DWIGGINS PROPERTY
LABORATORY DATA SHEETS AND CHAIN OF CUSTODY RECORDS

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88 6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0519	1	7/28/2005
Benzene	BQL	0.00519	1	7/28/2005
Bromobenzene	BQL	0 00519	1	7/28/2005
Bromochloromethane	BQL	0.00519	1	7/28/2005
Bromodichloromethane	BQL	0.00519	1	7/28/2005
Bromoform	BQL	0.00519	1	7/28/2005
Bromomethane	BQL	0.00519	1	7/28/2005
2-Butanone	BQL	0.0259	1	7/28/2005
n-Butylbenzene	BQL	0.00519	1	7/28/2005
sec-Butylbenzene	BQL	0.00519	1	7/28/2005
tert-Butylbenzene	BQL	0.00519	1	7/28/2005
Carbon disulfide	BQL	0.00519	1	7/28/2005
Carbon tetrachloride	BQL	0.00519	1	7/28/2005
Chlorobenzene	BQL	0.00519	1	7/28/2005
Chloroethane	BQL	0.00519	1	7/28/2005
Chloroform	BQL	0.00519	1	7/28/2005
Chloromethane	BQL	0.00519	1	7/28/2005
2-Chlorotoluene	BQL	0.00519	1	7/28/2005
4-Chlorotoluene	BQL	0.00519	1	7/28/2005
Dibromochloromethane	BQL	0.00519	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00519	1	7/28/2005
Dibromomethane	BQL	0.00519	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00519	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00519	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00519	1	7/28/2005
1,1-Dichloroethane	BQL	0.00519	1	7/28/2005
1,1-Dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloroethane	BQL	0.00519	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00519	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,3-Dichloropropane	BQL	0.00519	1	7/28/2005
2,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,1-Dichloropropene	BQL	0.00519	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0 00519	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00519	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00519	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00519	1	7/28/2005
Ethylbenzene	BQL	0.00519	1	7/28/2005
Hexachlorobutadiene	BQL	0.00519	1	7/28/2005
2-Hexanone	BQL	0.00519	1	7/28/2005
Iodomethane	BQL	0.00519	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00519	1	7/28/2005
4-Isopropyltoluene	BQL	0.00519	1	7/28/2005
Methylene chloride	BQL	0.0207	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00519	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00519	1	7/28/2005
Naphthalene	BQL	0.00519	1	7/28/2005
n-Propyl benzene	BQL	0.00519	1	7/28/2005
Styrene	BQL	0.00519	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
Tetrachloroethene	BQL	0.00519	1	7/28/2005
Toluene	BQL	0.00519	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00519	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00519	1	7/28/2005
Trichloroethene	BQL	0.00519	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00519	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00519	1	7/28/2005
Trichlorofluoromethane	BQL	0.00519	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00519	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00519	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00519	1	7/28/2005
Vinyl chloride	BQL	0.00519	1	7/28/2005
m-,p-Xylene	BQL	0.0104	1	7/28/2005
o-Xylene	BQL	0.00519	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0584	117
1,2-Dichloroethane-d4	0.05	0.0824	165
Toluene-d8	0.05	0.0529	106

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.343	1	7/27/2005
Acenaphthylene	BQL	0.343	1	7/27/2005
Anthracene	BQL	0.343	1	7/27/2005
Benzo[a]anthracene	BQL	0.343	1	7/27/2005
Benzo[a]pyrene	BQL	0.343	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.343	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.343	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.343	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.343	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.343	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.343	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.343	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.343	1	7/27/2005
Butylbenzylphthalate	BQL	0.343	1	7/27/2005
2-Chloronaphthalene	BQL	0.343	1	7/27/2005
4-Chloroaniline	BQL	1.71	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.343	1	7/27/2005
Chrysene	BQL	0.343	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.343	1	7/27/2005
Dibenzofuran	BQL	0.343	1	7/27/2005
Di-n-Butylphthalate	BQL	0.343	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.343	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.686	1	7/27/2005
Diethylphthalate	BQL	0.343	1	7/27/2005
Dimethylphthalate	BQL	0.343	1	7/27/2005
Di-n-octylphthalate	BQL	0.343	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.343	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.343	1	7/27/2005
Diphenylamine *	BQL	0.343	1	7/27/2005
Fluoranthene	BQL	0.343	1	7/27/2005
Fluorene	BQL	0.343	1	7/27/2005
Hexachlorobenzene	BQL	0.343	1	7/27/2005
Hexachlorobutadiene	BQL	0.343	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.686	1	7/27/2005
Hexachloroethane	BQL	0.343	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.343	1	7/27/2005
Isophorone	BQL	0.343	1	7/27/2005
2-Methylnaphthalene	BQL	0.343	1	7/27/2005
Naphthalene	BQL	0.343	1	7/27/2005
2-Nitroaniline	BQL	0.343	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.71	1	7/27/2005
4-Nitroaniline	BQL	1.71	1	7/27/2005
Nitrobenzene	BQL	0.343	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.343	1	7/27/2005
Phenanthrene	BQL	0.343	1	7/27/2005
Pyrene	BQL	0.343	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.343	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	11.2	112
Nitrobenzene-d5	10	11	110
4-Terphenyl-d14	10	12.9	129

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	89
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial. Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-1e

Reviewed By: _____

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	88.6
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2081-1I

Reviewed By: BNP

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0426	1	7/28/2005
Benzene	BQL	0.00426	1	7/28/2005
Bromobenzene	BQL	0.00426	1	7/28/2005
Bromochloromethane	BQL	0.00426	1	7/28/2005
Bromodichloromethane	BQL	0.00426	1	7/28/2005
Bromoform	BQL	0.00426	1	7/28/2005
Bromomethane	BQL	0.00426	1	7/28/2005
2-Butanone	BQL	0.0213	1	7/28/2005
n-Butylbenzene	BQL	0.00426	1	7/28/2005
sec-Butylbenzene	BQL	0.00426	1	7/28/2005
tert-Butylbenzene	BQL	0.00426	1	7/28/2005
Carbon disulfide	BQL	0.00426	1	7/28/2005
Carbon tetrachloride	BQL	0.00426	1	7/28/2005
Chlorobenzene	BQL	0.00426	1	7/28/2005
Chloroethane	BQL	0.00426	1	7/28/2005
Chloroform	BQL	0.00426	1	7/28/2005
Chloromethane	BQL	0.00426	1	7/28/2005
2-Chlorotoluene	BQL	0.00426	1	7/28/2005
4-Chlorotoluene	BQL	0.00426	1	7/28/2005
Dibromochloromethane	BQL	0.00426	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00426	1	7/28/2005
Dibromomethane	BQL	0.00426	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00426	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00426	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00426	1	7/28/2005
1,1-Dichloroethane	BQL	0.00426	1	7/28/2005
1,1-Dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloroethane	BQL	0.00426	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00426	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,3-Dichloropropane	BQL	0.00426	1	7/28/2005
2,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,1-Dichloropropene	BQL	0.00426	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00426	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00426	1	7/28/2005
Ethylbenzene	BQL	0.00426	1	7/28/2005
Hexachlorobutadiene	BQL	0.00426	1	7/28/2005
2-Hexanone	BQL	0.00426	1	7/28/2005
Iodomethane	BQL	0.00426	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00426	1	7/28/2005
4-Isopropyltoluene	BQL	0.00426	1	7/28/2005
Methylene chloride	BQL	0.0170	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00426	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00426	1	7/28/2005
Naphthalene	BQL	0.00426	1	7/28/2005
n-Propyl benzene	BQL	0.00426	1	7/28/2005
Styrene	BQL	0.00426	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
Tetrachloroethene	BQL	0.00426	1	7/28/2005
Toluene	BQL	0.00426	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00426	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00426	1	7/28/2005
Trichloroethene	BQL	0.00426	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00426	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00426	1	7/28/2005
Trichlorofluoromethane	BQL	0.00426	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00426	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00426	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00426	1	7/28/2005
Vinyl chloride	BQL	0.00426	1	7/28/2005
m-,p-Xylene	BQL	0.00852	1	7/28/2005
o-Xylene	BQL	0.00426	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0574	115
1,2-Dichloroethane-d4	0.05	0.0845	169
Toluene-d8	0.05	0.0534	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.337	1	7/27/2005
Acenaphthylene	BQL	0.337	1	7/27/2005
Anthracene	BQL	0.337	1	7/27/2005
Benzo[a]anthracene	BQL	0.337	1	7/27/2005
Benzo[a]pyrene	BQL	0.337	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.337	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.337	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.337	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.337	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.337	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.337	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.337	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.337	1	7/27/2005
Butylbenzylphthalate	BQL	0.337	1	7/27/2005
2-Chloronaphthalene	BQL	0.337	1	7/27/2005
4-Chloroaniline	BQL	1.68	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.337	1	7/27/2005
Chrysene	BQL	0.337	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.337	1	7/27/2005
Dibenzofuran	BQL	0.337	1	7/27/2005
Di-n-Butylphthalate	BQL	0.337	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.337	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.674	1	7/27/2005
Diethylphthalate	BQL	0.337	1	7/27/2005
Dimethylphthalate	BQL	0.337	1	7/27/2005
Di-n-octylphthalate	BQL	0.337	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.337	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.337	1	7/27/2005
Diphenylamine *	BQL	0.337	1	7/27/2005
Fluoranthene	BQL	0.337	1	7/27/2005
Fluorene	BQL	0.337	1	7/27/2005
Hexachlorobenzene	BQL	0.337	1	7/27/2005
Hexachlorobutadiene	BQL	0.337	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.674	1	7/27/2005
Hexachloroethane	BQL	0.337	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.337	1	7/27/2005
Isophorone	BQL	0.337	1	7/27/2005
2-Methylnaphthalene	**0.357**	0.337	1	7/27/2005
Naphthalene	BQL	0.337	1	7/27/2005
2-Nitroaniline	BQL	0.337	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.68	1	7/27/2005
4-Nitroaniline	BQL	1.68	1	7/27/2005
Nitrobenzene	BQL	0.337	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.337	1	7/27/2005
Phenanthrene	BQL	0.337	1	7/27/2005
Pyrene	BQL	0.337	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.337	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.8	98
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-15
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	86
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards

Lab Info: g161-2081-2e

Reviewed By: RSP

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-15
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	08/02/05
Dry Weight	86.3
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	91
Aromatic Surrogate % Recovery	95
Fractionation Surrogate 1 % Recovery	68

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2081-2I

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0421	1	7/29/2005
Benzene	BQL	0.00421	1	7/29/2005
Bromobenzene	BQL	0.00421	1	7/29/2005
Bromochloromethane	BQL	0.00421	1	7/29/2005
Bromodichloromethane	BQL	0.00421	1	7/29/2005
Bromoform	BQL	0.00421	1	7/29/2005
Bromomethane	BQL	0.00421	1	7/29/2005
2-Butanone	BQL	0.0211	1	7/29/2005
n-Butylbenzene	BQL	0.00421	1	7/29/2005
sec-Butylbenzene	BQL	0.00421	1	7/29/2005
tert-Butylbenzene	BQL	0.00421	1	7/29/2005
Carbon disulfide	BQL	0.00421	1	7/29/2005
Carbon tetrachloride	BQL	0.00421	1	7/29/2005
Chlorobenzene	BQL	0.00421	1	7/29/2005
Chloroethane	BQL	0.00421	1	7/29/2005
Chloroform	BQL	0.00421	1	7/29/2005
Chloromethane	BQL	0.00421	1	7/29/2005
2-Chlorotoluene	BQL	0.00421	1	7/29/2005
4-Chlorotoluene	BQL	0.00421	1	7/29/2005
Dibromochloromethane	BQL	0.00421	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00421	1	7/29/2005
Dibromomethane	BQL	0.00421	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00421	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00421	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00421	1	7/29/2005
1,1-Dichloroethane	BQL	0.00421	1	7/29/2005
1,1-Dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloroethane	BQL	0.00421	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00421	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,3-Dichloropropane	BQL	0.00421	1	7/29/2005
2,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,1-Dichloropropene	BQL	0.00421	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00421	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00421	1	7/29/2005
Ethylbenzene	BQL	0.00421	1	7/29/2005
Hexachlorobutadiene	BQL	0.00421	1	7/29/2005
2-Hexanone	BQL	0.00421	1	7/29/2005
Iodomethane	BQL	0.00421	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00421	1	7/29/2005
4-Isopropyltoluene	BQL	0.00421	1	7/29/2005
Methylene chloride	BQL	0.0168	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00421	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00421	1	7/29/2005
Naphthalene	BQL	0.00421	1	7/29/2005
n-Propyl benzene	BQL	0.00421	1	7/29/2005
Styrene	BQL	0.00421	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
Tetrachloroethene	BQL	0.00421	1	7/29/2005
Toluene	BQL	0.00421	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00421	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00421	1	7/29/2005
Trichloroethene	BQL	0.00421	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00421	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00421	1	7/29/2005
Trichlorofluoromethane	BQL	0.00421	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00421	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00421	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00421	1	7/29/2005
Vinyl chloride	BQL	0.00421	1	7/29/2005
m-,p-Xylene	BQL	0.00842	1	7/29/2005
o-Xylene	BQL	0.00421	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0586	117
1,2-Dichloroethane-d4	0.05	0.0601	120
Toluene-d8	0.05	0.0506	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.327	1	7/27/2005
Acenaphthylene	BQL	0.327	1	7/27/2005
Anthracene	BQL	0.327	1	7/27/2005
Benzo[a]anthracene	BQL	0.327	1	7/27/2005
Benzo[a]pyrene	BQL	0.327	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.327	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.327	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.327	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.327	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.327	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.327	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.327	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.327	1	7/27/2005
Butylbenzylphthalate	BQL	0.327	1	7/27/2005
2-Chloronaphthalene	BQL	0.327	1	7/27/2005
4-Chloroaniline	BQL	1.64	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.327	1	7/27/2005
Chrysene	BQL	0.327	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.327	1	7/27/2005
Dibenzofuran	BQL	0.327	1	7/27/2005
Di-n-Butylphthalate	BQL	0.327	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.327	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.655	1	7/27/2005
Diethylphthalate	BQL	0.327	1	7/27/2005
Dimethylphthalate	BQL	0.327	1	7/27/2005
Di-n-octylphthalate	BQL	0.327	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.327	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.327	1	7/27/2005
Diphenylamine *	BQL	0.327	1	7/27/2005
Fluoranthene	BQL	0.327	1	7/27/2005
Fluorene	BQL	0.327	1	7/27/2005
Hexachlorobenzene	BQL	0.327	1	7/27/2005
Hexachlorobutadiene	BQL	0.327	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.655	1	7/27/2005
Hexachloroethane	BQL	0.327	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.327	1	7/27/2005
Isophorone	BQL	0.327	1	7/27/2005
2-Methylnaphthalene	BQL	0.327	1	7/27/2005
Naphthalene	BQL	0.327	1	7/27/2005
2-Nitroaniline	BQL	0.327	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.64	1	7/27/2005
4-Nitroaniline	BQL	1.64	1	7/27/2005
Nitrobenzene	BQL	0.327	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.327	1	7/27/2005
Phenanthrene	BQL	0.327	1	7/27/2005
Pyrene	BQL	0.327	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.327	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.4	104
Nitrobenzene-d5	10	10.7	107
4-Terphenyl-d14	10	13.6	136

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-25
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	91
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-3e

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-25
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	91.2
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	110

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2081-3K

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0550	1	7/29/2005
Benzene	BQL	0.00550	1	7/29/2005
Bromobenzene	BQL	0.00550	1	7/29/2005
Bromochloromethane	BQL	0.00550	1	7/29/2005
Bromodichloromethane	BQL	0.00550	1	7/29/2005
Bromoform	BQL	0.00550	1	7/29/2005
Bromomethane	BQL	0.00550	1	7/29/2005
2-Butanone	BQL	0.0275	1	7/29/2005
n-Butylbenzene	BQL	0.00550	1	7/29/2005
sec-Butylbenzene	BQL	0.00550	1	7/29/2005
tert-Butylbenzene	BQL	0.00550	1	7/29/2005
Carbon disulfide	BQL	0.00550	1	7/29/2005
Carbon tetrachloride	BQL	0.00550	1	7/29/2005
Chlorobenzene	BQL	0.00550	1	7/29/2005
Chloroethane	BQL	0.00550	1	7/29/2005
Chloroform	BQL	0.00550	1	7/29/2005
Chloromethane	BQL	0.00550	1	7/29/2005
2-Chlorotoluene	BQL	0.00550	1	7/29/2005
4-Chlorotoluene	BQL	0.00550	1	7/29/2005
Dibromochloromethane	BQL	0.00550	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00550	1	7/29/2005
Dibromomethane	BQL	0.00550	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00550	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00550	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00550	1	7/29/2005
1,1-Dichloroethane	BQL	0.00550	1	7/29/2005
1,1-Dichloroethene	BQL	0.00550	1	7/29/2005
1,2-Dichloroethane	BQL	0.00550	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00550	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00550	1	7/29/2005
1,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,3-Dichloropropane	BQL	0.00550	1	7/29/2005
2,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,1-Dichloropropene	BQL	0.00550	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00550	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00550	1	7/29/2005
Ethylbenzene	BQL	0.00550	1	7/29/2005
Hexachlorobutadiene	BQL	0.00550	1	7/29/2005
2-Hexanone	BQL	0.00550	1	7/29/2005
Iodomethane	BQL	0.00550	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00550	1	7/29/2005
4-Isopropyltoluene	BQL	0.00550	1	7/29/2005
Methylene chloride	BQL	0.0220	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00550	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00550	1	7/29/2005
Naphthalene	BQL	0.00550	1	7/29/2005
n-Propyl benzene	BQL	0.00550	1	7/29/2005
Styrene	BQL	0.00550	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
Tetrachloroethene	BQL	0.00550	1	7/29/2005
Toluene	BQL	0.00550	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00550	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00550	1	7/29/2005
Trichloroethene	BQL	0.00550	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00550	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00550	1	7/29/2005
Trichlorofluoromethane	BQL	0.00550	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00550	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00550	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00550	1	7/29/2005
Vinyl chloride	BQL	0.00550	1	7/29/2005
m-,p-Xylene	BQL	0.0110	1	7/29/2005
o-Xylene	BQL	0.00550	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0612	122
1,2-Dichloroethane-d4	0.05	0.062	124
Toluene-d8	0.05	0.0513	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-4E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:32
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 90.93

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.328	1	7/27/2005
Acenaphthylene	BQL	0.328	1	7/27/2005
Anthracene	BQL	0.328	1	7/27/2005
Benzo[a]anthracene	BQL	0.328	1	7/27/2005
Benzo[a]pyrene	BQL	0.328	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.328	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.328	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.328	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.328	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.328	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.328	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.328	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.328	1	7/27/2005
Butylbenzylphthalate	**0.371**	0.328	1	7/27/2005
2-Chloronaphthalene	BQL	0.328	1	7/27/2005
4-Chloroaniline	BQL	1.64	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.328	1	7/27/2005
Chrysene	BQL	0.328	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.328	1	7/27/2005
Dibenzofuran	BQL	0.328	1	7/27/2005
Di-n-Butylphthalate	BQL	0.328	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.328	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.328	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.328	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.657	1	7/27/2005
Diethylphthalate	BQL	0.328	1	7/27/2005
Dimethylphthalate	BQL	0.328	1	7/27/2005
Di-n-octylphthalate	BQL	0.328	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.328	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.328	1	7/27/2005
Diphenylamine *	BQL	0.328	1	7/27/2005
Fluoranthene	BQL	0.328	1	7/27/2005
Fluorene	BQL	0.328	1	7/27/2005
Hexachlorobenzene	BQL	0.328	1	7/27/2005
Hexachlorobutadiene	BQL	0.328	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.657	1	7/27/2005
Hexachloroethane	BQL	0.328	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.328	1	7/27/2005
Isophorone	BQL	0.328	1	7/27/2005
2-Methylnaphthalene	BQL	0.328	1	7/27/2005
Naphthalene	BQL	0.328	1	7/27/2005
2-Nitroaniline	BQL	0.328	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-4E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:32
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 90.93

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.64	1	7/27/2005
4-Nitroaniline	BQL	1.64	1	7/27/2005
Nitrobenzene	BQL	0.328	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.328	1	7/27/2005
Phenanthrene	BQL	0.328	1	7/27/2005
Pyrene	BQL	0.328	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.328	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.7	107
Nitrobenzene-d5	10	10.5	105
4-Terphenyl-d14	10	13.9	139

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Metals

Client Sample ID:	D2-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:32
Lab Sample ID:	G161-2081-4	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	90.93
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.982	1	MG/KG	6010B	7/26/2005
Barium	**60.9**	9.82	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	0.982	1	MG/KG	6010B	7/26/2005
Chromium	**14.4**	0.982	1	MG/KG	6010B	7/26/2005
Lead	**18.0**	0.982	1	MG/KG	6010B	7/26/2005
Mercury	**0.0249**	0.0207	1	MG/KG	7471	7/29/2005
Selenium	BQL	1.96	1	MG/KG	6010B	7/26/2005
Silver	BQL	0.982	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-5A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:34
Date Received: 7/22/2005
Matrix: Soil
%Solids: 77.7

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0643	1	7/29/2005
Benzene	BQL	0.00643	1	7/29/2005
Bromobenzene	BQL	0.00643	1	7/29/2005
Bromochloromethane	BQL	0.00643	1	7/29/2005
Bromodichloromethane	BQL	0.00643	1	7/29/2005
Bromoform	BQL	0.00643	1	7/29/2005
Bromomethane	BQL	0.00643	1	7/29/2005
2-Butanone	BQL	0.0322	1	7/29/2005
n-Butylbenzene	BQL	0.00643	1	7/29/2005
sec-Butylbenzene	BQL	0.00643	1	7/29/2005
tert-Butylbenzene	BQL	0.00643	1	7/29/2005
Carbon disulfide	BQL	0.00643	1	7/29/2005
Carbon tetrachloride	BQL	0.00643	1	7/29/2005
Chlorobenzene	BQL	0.00643	1	7/29/2005
Chloroethane	BQL	0.00643	1	7/29/2005
Chloroform	BQL	0.00643	1	7/29/2005
Chloromethane	BQL	0.00643	1	7/29/2005
2-Chlorotoluene	BQL	0.00643	1	7/29/2005
4-Chlorotoluene	BQL	0.00643	1	7/29/2005
Dibromochloromethane	BQL	0.00643	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00643	1	7/29/2005
Dibromomethane	BQL	0.00643	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00643	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00643	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00643	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00643	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00643	1	7/29/2005
1,1-Dichloroethane	BQL	0.00643	1	7/29/2005
1,1-Dichloroethene	BQL	0.00643	1	7/29/2005
1,2-Dichloroethane	BQL	0.00643	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00643	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00643	1	7/29/2005
1,2-Dichloropropane	BQL	0.00643	1	7/29/2005
1,3-Dichloropropane	BQL	0.00643	1	7/29/2005
2,2-Dichloropropane	BQL	0.00643	1	7/29/2005
1,1-Dichloropropene	BQL	0.00643	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00643	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00643	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00643	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00643	1	7/29/2005
Ethylbenzene	BQL	0.00643	1	7/29/2005
Hexachlorobutadiene	BQL	0.00643	1	7/29/2005
2-Hexanone	BQL	0.00643	1	7/29/2005
Iodomethane	BQL	0.00643	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-5A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:34
Date Received: 7/22/2005
Matrix: Soil
%Solids: 77.7

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00643	1	7/29/2005
4-Isopropyltoluene	BQL	0.00643	1	7/29/2005
Methylene chloride	BQL	0.0257	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00643	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00643	1	7/29/2005
Naphthalene	BQL	0.00643	1	7/29/2005
n-Propyl benzene	BQL	0.00643	1	7/29/2005
Styrene	BQL	0.00643	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00643	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00643	1	7/29/2005
Tetrachloroethene	BQL	0.00643	1	7/29/2005
Toluene	BQL	0.00643	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00643	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00643	1	7/29/2005
Trichloroethene	BQL	0.00643	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00643	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00643	1	7/29/2005
Trichlorofluoromethane	BQL	0.00643	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00643	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00643	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00643	1	7/29/2005
Vinyl chloride	BQL	0.00643	1	7/29/2005
m-,p-Xylene	BQL	0.0129	1	7/29/2005
o-Xylene	BQL	0.00643	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0556	111
1,2-Dichloroethane-d4	0.05	0.07	140
Toluene-d8	0.05	0.0522	104

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-5E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:34
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 77.74

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.393	1	7/27/2005
Acenaphthylene	BQL	0.393	1	7/27/2005
Anthracene	BQL	0.393	1	7/27/2005
Benzo[a]anthracene	BQL	0.393	1	7/27/2005
Benzo[a]pyrene	BQL	0.393	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.393	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.393	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.393	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.393	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.393	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.393	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.393	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.393	1	7/27/2005
Butylbenzylphthalate	BQL	0.393	1	7/27/2005
2-Chloronaphthalene	BQL	0.393	1	7/27/2005
4-Chloroaniline	BQL	1.97	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.393	1	7/27/2005
Chrysene	BQL	0.393	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.393	1	7/27/2005
Dibenzofuran	BQL	0.393	1	7/27/2005
Di-n-Butylphthalate	BQL	0.393	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.393	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.393	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.393	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.787	1	7/27/2005
Diethylphthalate	BQL	0.393	1	7/27/2005
Dimethylphthalate	BQL	0.393	1	7/27/2005
Di-n-octylphthalate	BQL	0.393	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.393	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.393	1	7/27/2005
Diphenylamine *	BQL	0.393	1	7/27/2005
Fluoranthene	BQL	0.393	1	7/27/2005
Fluorene	BQL	0.393	1	7/27/2005
Hexachlorobenzene	BQL	0.393	1	7/27/2005
Hexachlorobutadiene	BQL	0.393	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.787	1	7/27/2005
Hexachloroethane	BQL	0.393	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.393	1	7/27/2005
Isophorone	BQL	0.393	1	7/27/2005
2-Methylnaphthalene	BQL	0.393	1	7/27/2005
Naphthalene	BQL	0.393	1	7/27/2005
2-Nitroaniline	BQL	0.393	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-5E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:34
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 77.74

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.97	1	7/27/2005
4-Nitroaniline	BQL	1.97	1	7/27/2005
Nitrobenzene	BQL	0.393	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.393	1	7/27/2005
Phenanthrene	BQL	0.393	1	7/27/2005
Pyrene	BQL	0.393	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.393	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.7	107
4-Terphenyl-d14	10	12.6	126

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Metals

Client Sample ID:	D2-5	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:34
Lab Sample ID:	G161-2081-5	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	77.74
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.17	1	MG/KG	6010B	7/26/2005
Barium	**62.1**	11.7	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.17	1	MG/KG	6010B	7/26/2005
Chromium	**21.2**	1.17	1	MG/KG	6010B	7/26/2005
Lead	**39.7**	1.17	1	MG/KG	6010B	7/26/2005
Mercury	**0.0377**	0.0222	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.34	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.17	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-6A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:53
Date Received: 7/22/2005
Matrix: Soil
%Solids: 76.5

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0653	1	7/28/2005
Benzene	BQL	0.00653	1	7/28/2005
Bromobenzene	BQL	0.00653	1	7/28/2005
Bromochloromethane	BQL	0.00653	1	7/28/2005
Bromodichloromethane	BQL	0.00653	1	7/28/2005
Bromoform	BQL	0.00653	1	7/28/2005
Bromomethane	BQL	0.00653	1	7/28/2005
2-Butanone	BQL	0.0327	1	7/28/2005
n-Butylbenzene	BQL	0.00653	1	7/28/2005
sec-Butylbenzene	BQL	0.00653	1	7/28/2005
tert-Butylbenzene	BQL	0.00653	1	7/28/2005
Carbon disulfide	BQL	0.00653	1	7/28/2005
Carbon tetrachloride	BQL	0.00653	1	7/28/2005
Chlorobenzene	BQL	0.00653	1	7/28/2005
Chloroethane	BQL	0.00653	1	7/28/2005
Chloroform	BQL	0.00653	1	7/28/2005
Chloromethane	BQL	0.00653	1	7/28/2005
2-Chlorotoluene	BQL	0.00653	1	7/28/2005
4-Chlorotoluene	BQL	0.00653	1	7/28/2005
Dibromochloromethane	BQL	0.00653	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00653	1	7/28/2005
Dibromomethane	BQL	0.00653	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00653	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00653	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00653	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00653	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00653	1	7/28/2005
1,1-Dichloroethane	BQL	0.00653	1	7/28/2005
1,1-Dichloroethene	BQL	0.00653	1	7/28/2005
1,2-Dichloroethane	BQL	0.00653	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00653	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00653	1	7/28/2005
1,2-Dichloropropane	BQL	0.00653	1	7/28/2005
1,3-Dichloropropane	BQL	0.00653	1	7/28/2005
2,2-Dichloropropane	BQL	0.00653	1	7/28/2005
1,1-Dichloropropene	BQL	0.00653	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00653	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00653	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00653	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00653	1	7/28/2005
Ethylbenzene	BQL	0.00653	1	7/28/2005
Hexachlorobutadiene	BQL	0.00653	1	7/28/2005
2-Hexanone	BQL	0.00653	1	7/28/2005
Iodomethane	BQL	0.00653	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-6A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:53
Date Received: 7/22/2005
Matrix: Soil
%Solids: 76.5

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00653	1	7/28/2005
4-Isopropyltoluene	BQL	0.00653	1	7/28/2005
Methylene chloride	BQL	0.0261	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00653	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00653	1	7/28/2005
Naphthalene	BQL	0.00653	1	7/28/2005
n-Propyl benzene	BQL	0.00653	1	7/28/2005
Styrene	BQL	0.00653	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00653	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00653	1	7/28/2005
Tetrachloroethene	BQL	0.00653	1	7/28/2005
Toluene	BQL	0.00653	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00653	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00653	1	7/28/2005
Trichloroethene	BQL	0.00653	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00653	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00653	1	7/28/2005
Trichlorofluoromethane	BQL	0.00653	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00653	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00653	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00653	1	7/28/2005
Vinyl chloride	BQL	0.00653	1	7/28/2005
m-,p-Xylene	BQL	0.0131	1	7/28/2005
o-Xylene	BQL	0.00653	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0593	119
1,2-Dichloroethane-d4	0.05	0.0736	147
Toluene-d8	0.05	0.0516	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-6E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:53
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 76.52

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.407	1	7/27/2005
Acenaphthylene	BQL	0.407	1	7/27/2005
Anthracene	BQL	0.407	1	7/27/2005
Benzo[a]anthracene	BQL	0.407	1	7/27/2005
Benzo[a]pyrene	BQL	0.407	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.407	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.407	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.407	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.407	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.407	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.407	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.407	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.407	1	7/27/2005
Butylbenzylphthalate	BQL	0.407	1	7/27/2005
2-Chloronaphthalene	BQL	0.407	1	7/27/2005
4-Chloroaniline	BQL	2.03	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.407	1	7/27/2005
Chrysene	BQL	0.407	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.407	1	7/27/2005
Dibenzofuran	BQL	0.407	1	7/27/2005
Di-n-Butylphthalate	BQL	0.407	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.407	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.407	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.407	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.813	1	7/27/2005
Diethylphthalate	BQL	0.407	1	7/27/2005
Dimethylphthalate	BQL	0.407	1	7/27/2005
Di-n-octylphthalate	BQL	0.407	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.407	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.407	1	7/27/2005
Diphenylamine *	BQL	0.407	1	7/27/2005
Fluoranthene	BQL	0.407	1	7/27/2005
Fluorene	BQL	0.407	1	7/27/2005
Hexachlorobenzene	BQL	0.407	1	7/27/2005
Hexachlorobutadiene	BQL	0.407	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.813	1	7/27/2005
Hexachloroethane	BQL	0.407	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.407	1	7/27/2005
Isophorone	BQL	0.407	1	7/27/2005
2-Methylnaphthalene	BQL	0.407	1	7/27/2005
Naphthalene	BQL	0.407	1	7/27/2005
2-Nitroaniline	BQL	0.407	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-6E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:53
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 76.52

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.03	1	7/27/2005
4-Nitroaniline	BQL	2.03	1	7/27/2005
Nitrobenzene	BQL	0.407	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.407	1	7/27/2005
Phenanthrene	BQL	0.407	1	7/27/2005
Pyrene	BQL	0.407	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.407	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
Nitrobenzene-d5	10	10.2	102
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: BJ

Results for Metals

Client Sample ID:	D3-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:53
Lab Sample ID:	G161-2081-6	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	76.52
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**1.13**	1.13	1	MG/KG	6010B	7/26/2005
Barium	**112**	11.3	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.13	1	MG/KG	6010B	7/26/2005
Chromium	**11.1**	1.13	1	MG/KG	6010B	7/26/2005
Lead	**9.73**	1.13	1	MG/KG	6010B	7/26/2005
Mercury	**0.0271**	0.0225	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.25	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.13	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-7A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0567	1	7/28/2005
Benzene	BQL	0.00567	1	7/28/2005
Bromobenzene	BQL	0.00567	1	7/28/2005
Bromochloromethane	BQL	0.00567	1	7/28/2005
Bromodichloromethane	BQL	0.00567	1	7/28/2005
Bromoform	BQL	0.00567	1	7/28/2005
Bromomethane	BQL	0.00567	1	7/28/2005
2-Butanone	BQL	0.0284	1	7/28/2005
n-Butylbenzene	BQL	0.00567	1	7/28/2005
sec-Butylbenzene	BQL	0.00567	1	7/28/2005
tert-Butylbenzene	BQL	0.00567	1	7/28/2005
Carbon disulfide	BQL	0.00567	1	7/28/2005
Carbon tetrachloride	BQL	0.00567	1	7/28/2005
Chlorobenzene	BQL	0.00567	1	7/28/2005
Chloroethane	BQL	0.00567	1	7/28/2005
Chloroform	BQL	0.00567	1	7/28/2005
Chloromethane	BQL	0.00567	1	7/28/2005
2-Chlorotoluene	BQL	0.00567	1	7/28/2005
4-Chlorotoluene	BQL	0.00567	1	7/28/2005
Dibromochloromethane	BQL	0.00567	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00567	1	7/28/2005
Dibromomethane	BQL	0.00567	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00567	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00567	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00567	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00567	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00567	1	7/28/2005
1,1-Dichloroethane	BQL	0.00567	1	7/28/2005
1,1-Dichloroethene	BQL	0.00567	1	7/28/2005
1,2-Dichloroethane	BQL	0.00567	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00567	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00567	1	7/28/2005
1,2-Dichloropropane	BQL	0.00567	1	7/28/2005
1,3-Dichloropropane	BQL	0.00567	1	7/28/2005
2,2-Dichloropropane	BQL	0.00567	1	7/28/2005
1,1-Dichloropropene	BQL	0.00567	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00567	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00567	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00567	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00567	1	7/28/2005
Ethylbenzene	BQL	0.00567	1	7/28/2005
Hexachlorobutadiene	BQL	0.00567	1	7/28/2005
2-Hexanone	BQL	0.00567	1	7/28/2005
Iodomethane	BQL	0.00567	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-7A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00567	1	7/28/2005
4-Isopropyltoluene	BQL	0.00567	1	7/28/2005
Methylene chloride	BQL	0.0227	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00567	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00567	1	7/28/2005
Naphthalene	BQL	0.00567	1	7/28/2005
n-Propyl benzene	BQL	0.00567	1	7/28/2005
Styrene	BQL	0.00567	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00567	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00567	1	7/28/2005
Tetrachloroethene	BQL	0.00567	1	7/28/2005
Toluene	BQL	0.00567	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00567	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00567	1	7/28/2005
Trichloroethene	BQL	0.00567	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00567	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00567	1	7/28/2005
Trichlorofluoromethane	BQL	0.00567	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00567	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00567	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00567	1	7/28/2005
Vinyl chloride	BQL	0.00567	1	7/28/2005
m-,p-Xylene	BQL	0.0113	1	7/28/2005
o-Xylene	BQL	0.00567	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.066	132
1,2-Dichloroethane-d4	0.05	0.0694	139
Toluene-d8	0.05	0.0506	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-7E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.335	1	7/27/2005
Acenaphthylene	BQL	0.335	1	7/27/2005
Anthracene	BQL	0.335	1	7/27/2005
Benzo[a]anthracene	**0.557**	0.335	1	7/27/2005
Benzo[a]pyrene	**0.624**	0.335	1	7/27/2005
Benzo[b]fluoranthene	**0.741**	0.335	1	7/27/2005
Benzo[g,h,i]perylene	**0.356**	0.335	1	7/27/2005
Benzo[k]fluoranthene	**0.339**	0.335	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.335	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.335	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.335	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.335	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.335	1	7/27/2005
Butylbenzylphthalate	BQL	0.335	1	7/27/2005
2-Chloronaphthalene	BQL	0.335	1	7/27/2005
4-Chloroaniline	BQL	1.68	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.335	1	7/27/2005
Chrysene	**0.741**	0.335	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.335	1	7/27/2005
Dibenzofuran	BQL	0.335	1	7/27/2005
Di-n-Butylphthalate	BQL	0.335	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.335	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.335	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.335	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.671	1	7/27/2005
Diethylphthalate	BQL	0.335	1	7/27/2005
Dimethylphthalate	BQL	0.335	1	7/27/2005
Di-n-octylphthalate	BQL	0.335	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.335	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.335	1	7/27/2005
Diphenylamine *	BQL	0.335	1	7/27/2005
Fluoranthene	**1.16**	0.335	1	7/27/2005
Fluorene	BQL	0.335	1	7/27/2005
Hexachlorobenzene	BQL	0.335	1	7/27/2005
Hexachlorobutadiene	BQL	0.335	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.671	1	7/27/2005
Hexachloroethane	BQL	0.335	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.335	1	7/27/2005
Isophorone	BQL	0.335	1	7/27/2005
2-Methylnaphthalene	BQL	0.335	1	7/27/2005
Naphthalene	BQL	0.335	1	7/27/2005
2-Nitroaniline	BQL	0.335	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-7E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.68	1	7/27/2005
4-Nitroaniline	BQL	1.68	1	7/27/2005
Nitrobenzene	BQL	0.335	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.335	1	7/27/2005
Phenanthrene	**0.892**	0.335	1	7/27/2005
Pyrene	**1.65**	0.335	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.335	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.8	108
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	14	140

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Metals

Client Sample ID:	D3-5	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:54
Lab Sample ID:	G161-2081-7	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	88.11
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**3.54**	0.996	1	MG/KG	6010B	7/26/2005
Barium	**108**	9.96	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	0.996	1	MG/KG	6010B	7/26/2005
Chromium	**9.49**	0.996	1	MG/KG	6010B	7/26/2005
Lead	**35.4**	0.996	1	MG/KG	6010B	7/26/2005
Mercury	**0.142**	0.0214	1	MG/KG	7471	7/29/2005
Selenium	BQL	1.99	1	MG/KG	6010B	7/26/2005
Silver	BQL	0.996	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-8A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:59
Date Received: 7/22/2005
Matrix: Soil
%Solids: 87.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0569	1	7/28/2005
Benzene	BQL	0.00569	1	7/28/2005
Bromobenzene	BQL	0.00569	1	7/28/2005
Bromochloromethane	BQL	0.00569	1	7/28/2005
Bromodichloromethane	BQL	0.00569	1	7/28/2005
Bromoform	BQL	0.00569	1	7/28/2005
Bromomethane	BQL	0.00569	1	7/28/2005
2-Butanone	BQL	0.0285	1	7/28/2005
n-Butylbenzene	BQL	0.00569	1	7/28/2005
sec-Butylbenzene	BQL	0.00569	1	7/28/2005
tert-Butylbenzene	BQL	0.00569	1	7/28/2005
Carbon disulfide	BQL	0.00569	1	7/28/2005
Carbon tetrachloride	BQL	0.00569	1	7/28/2005
Chlorobenzene	BQL	0.00569	1	7/28/2005
Chloroethane	BQL	0.00569	1	7/28/2005
Chloroform	BQL	0.00569	1	7/28/2005
Chloromethane	BQL	0.00569	1	7/28/2005
2-Chlorotoluene	BQL	0.00569	1	7/28/2005
4-Chlorotoluene	BQL	0.00569	1	7/28/2005
Dibromochloromethane	BQL	0.00569	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00569	1	7/28/2005
Dibromomethane	BQL	0.00569	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00569	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00569	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00569	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00569	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00569	1	7/28/2005
1,1-Dichloroethane	BQL	0.00569	1	7/28/2005
1,1-Dichloroethene	BQL	0.00569	1	7/28/2005
1,2-Dichloroethane	BQL	0.00569	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00569	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00569	1	7/28/2005
1,2-Dichloropropane	BQL	0.00569	1	7/28/2005
1,3-Dichloropropane	BQL	0.00569	1	7/28/2005
2,2-Dichloropropane	BQL	0.00569	1	7/28/2005
1,1-Dichloropropene	BQL	0.00569	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00569	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00569	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00569	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00569	1	7/28/2005
Ethylbenzene	BQL	0.00569	1	7/28/2005
Hexachlorobutadiene	BQL	0.00569	1	7/28/2005
2-Hexanone	BQL	0.00569	1	7/28/2005
Iodomethane	BQL	0.00569	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-8A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:59
Date Received: 7/22/2005
Matrix: Soil
%Solids: 87.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00569	1	7/28/2005
4-Isopropyltoluene	BQL	0.00569	1	7/28/2005
Methylene chloride	BQL	0.0228	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00569	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00569	1	7/28/2005
Naphthalene	BQL	0.00569	1	7/28/2005
n-Propyl benzene	BQL	0.00569	1	7/28/2005
Styrene	BQL	0.00569	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00569	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00569	1	7/28/2005
Tetrachloroethene	BQL	0.00569	1	7/28/2005
Toluene	BQL	0.00569	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00569	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00569	1	7/28/2005
Trichloroethene	BQL	0.00569	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00569	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00569	1	7/28/2005
Trichlorofluoromethane	BQL	0.00569	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00569	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00569	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00569	1	7/28/2005
Vinyl chloride	BQL	0.00569	1	7/28/2005
m-,p-Xylene	BQL	0.0114	1	7/28/2005
o-Xylene	BQL	0.00569	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0572	114
1,2-Dichloroethane-d4	0.05	0.074	148
Toluene-d8	0.05	0.052	104

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-8F
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:59
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 87.85

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.340	1	7/27/2005
Acenaphthylene	BQL	0.340	1	7/27/2005
Anthracene	BQL	0.340	1	7/27/2005
Benzo[a]anthracene	BQL	0.340	1	7/27/2005
Benzo[a]pyrene	BQL	0.340	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.340	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.340	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.340	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.340	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.340	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.340	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.340	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.340	1	7/27/2005
Butylbenzylphthalate	BQL	0.340	1	7/27/2005
2-Chloronaphthalene	BQL	0.340	1	7/27/2005
4-Chloroaniline	BQL	1.70	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.340	1	7/27/2005
Chrysene	BQL	0.340	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.340	1	7/27/2005
Dibenzofuran	BQL	0.340	1	7/27/2005
Di-n-Butylphthalate	BQL	0.340	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.340	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.340	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.340	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.681	1	7/27/2005
Diethylphthalate	BQL	0.340	1	7/27/2005
Dimethylphthalate	BQL	0.340	1	7/27/2005
Di-n-octylphthalate	BQL	0.340	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.340	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.340	1	7/27/2005
Diphenylamine *	BQL	0.340	1	7/27/2005
Fluoranthene	BQL	0.340	1	7/27/2005
Fluorene	BQL	0.340	1	7/27/2005
Hexachlorobenzene	BQL	0.340	1	7/27/2005
Hexachlorobutadiene	BQL	0.340	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.681	1	7/27/2005
Hexachloroethane	BQL	0.340	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.340	1	7/27/2005
Isophorone	BQL	0.340	1	7/27/2005
2-Methylnaphthalene	BQL	0.340	1	7/27/2005
Naphthalene	BQL	0.340	1	7/27/2005
2-Nitroaniline	BQL	0.340	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-8F
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:59
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 87.85

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.70	1	7/27/2005
4-Nitroaniline	BQL	1.70	1	7/27/2005
Nitrobenzene	BQL	0.340	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.340	1	7/27/2005
Phenanthrene	BQL	0.340	1	7/27/2005
Pyrene	BQL	0.340	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.340	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10.3	103
4-Terphenyl-d14	10	13.6	136

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Metals

Client Sample ID:	D3-15	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:59
Lab Sample ID:	G161-2081-8	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	87.85
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.09	1	MG/KG	6010B	7/26/2005
Barium	**59.6**	10.9	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.09	1	MG/KG	6010B	7/26/2005
Chromium	**63.8**	1.09	1	MG/KG	6010B	7/26/2005
Lead	**3.27**	1.09	1	MG/KG	6010B	7/26/2005
Mercury	**0.0296**	0.0223	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.19	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.09	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.1

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0403	1	7/28/05
Benzene	BQL	0.00403	1	7/28/05
Bromobenzene	BQL	0.00403	1	7/28/05
Bromochloromethane	BQL	0.00403	1	7/28/05
Bromodichloromethane	BQL	0.00403	1	7/28/05
Bromoform	BQL	0.00403	1	7/28/05
Bromomethane	BQL	0.00403	1	7/28/05
2-Butanone	BQL	0.0201	1	7/28/05
n-Butylbenzene	BQL	0.00403	1	7/28/05
sec-Butylbenzene	BQL	0.00403	1	7/28/05
tert-Butylbenzene	BQL	0.00403	1	7/28/05
Carbon disulfide	BQL	0.00403	1	7/28/05
Carbon tetrachloride	BQL	0.00403	1	7/28/05
Chlorobenzene	BQL	0.00403	1	7/28/05
Chloroethane	BQL	0.00403	1	7/28/05
Chloroform	BQL	0.00403	1	7/28/05
Chloromethane	BQL	0.00403	1	7/28/05
2-Chlorotoluene	BQL	0.00403	1	7/28/05
4-Chlorotoluene	BQL	0.00403	1	7/28/05
Dibromochloromethane	BQL	0.00403	1	7/28/05
1,2-Dibromo-3-chloropropane	BQL	0.00403	1	7/28/05
Dibromomethane	BQL	0.00403	1	7/28/05
1,2-Dibromoethane (EDB)	BQL	0.00403	1	7/28/05
1,2-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,3-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,4-Dichlorobenzene	BQL	0.00403	1	7/28/05
trans-1,4-Dichloro-2-butene	BQL	0.00403	1	7/28/05
1,1-Dichloroethane	BQL	0.00403	1	7/28/05
1,1-Dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloroethane	BQL	0.00403	1	7/28/05
cis-1,2-Dichloroethene	BQL	0.00403	1	7/28/05
trans-1,2-dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,3-Dichloropropane	BQL	0.00403	1	7/28/05
2,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,1-Dichloropropene	BQL	0.00403	1	7/28/05
cis-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
trans-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
Dichlorodifluoromethane	BQL	0.00403	1	7/28/05
Diisopropyl ether (DIPE)	BQL	0.00403	1	7/28/05
Ethylbenzene	BQL	0.00403	1	7/28/05
Hexachlorobutadiene	BQL	0.00403	1	7/28/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00403	1	7/28/05
Iodomethane	BQL	0.00403	1	7/28/05
Isopropylbenzene	BQL	0.00403	1	7/28/05
4-Isopropyltoluene	BQL	0.00403	1	7/28/05
Methylene chloride	BQL	0.0161	1	7/28/05
4-Methyl-2-pentanone	BQL	0.00403	1	7/28/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00403	1	7/28/05
Naphthalene	BQL	0.00403	1	7/28/05
n-Propyl benzene	BQL	0.00403	1	7/28/05
Styrene	BQL	0.00403	1	7/28/05
1,1,1,2-Tetrachloroethane	BQL	0.00403	1	7/28/05
1,1,2,2-Tetrachloroethane	BQL	0.00403	1	7/28/05
Tetrachloroethene	BQL	0.00403	1	7/28/05
Toluene	BQL	0.00403	1	7/28/05
1,2,3-Trichlorobenzene	BQL	0.00403	1	7/28/05
1,2,4-Trichlorobenzene	BQL	0.00403	1	7/28/05
Trichloroethene	BQL	0.00403	1	7/28/05
1,1,1-Trichloroethane	BQL	0.00403	1	7/28/05
1,1,2-Trichloroethane	BQL	0.00403	1	7/28/05
Trichlorofluoromethane	BQL	0.00403	1	7/28/05
1,2,3-Trichloropropane	BQL	0.00403	1	7/28/05
1,2,4-Trimethylbenzene	BQL	0.00403	1	7/28/05
1,3,5-Trimethylbenzene	BQL	0.00403	1	7/28/05
Vinyl chloride	BQL	0.00403	1	7/28/05
m-,p-Xylene	BQL	0.00805	1	7/28/05
o-Xylene	BQL	0.00403	1	7/28/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0577	115
1,2-Dichloroethane-d4	0.05	0.0879	176 #
Toluene-d8	0.05	0.0535	107

Comments:
= Surrogate recovery above limit. Confirmed by duplicate analysis.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Dup-4
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	87
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards

Lab Info: g161-2081-9e

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/28/2005
Benzene	BQL	0.00500	1	7/28/2005
Bromobenzene	BQL	0.00500	1	7/28/2005
Bromochloromethane	BQL	0.00500	1	7/28/2005
Bromodichloromethane	BQL	0.00500	1	7/28/2005
Bromoform	BQL	0.00500	1	7/28/2005
Bromomethane	BQL	0.00500	1	7/28/2005
2-Butanone	BQL	0.0250	1	7/28/2005
n-Butylbenzene	BQL	0.00500	1	7/28/2005
sec-Butylbenzene	BQL	0.00500	1	7/28/2005
tert-Butylbenzene	BQL	0.00500	1	7/28/2005
Carbon disulfide	BQL	0.00500	1	7/28/2005
Carbon tetrachloride	BQL	0.00500	1	7/28/2005
Chlorobenzene	BQL	0.00500	1	7/28/2005
Chloroethane	BQL	0.00500	1	7/28/2005
Chloroform	BQL	0.00500	1	7/28/2005
Chloromethane	BQL	0.00500	1	7/28/2005
2-Chlorotoluene	BQL	0.00500	1	7/28/2005
4-Chlorotoluene	BQL	0.00500	1	7/28/2005
Dibromochloromethane	BQL	0.00500	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/28/2005
Dibromomethane	BQL	0.00500	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00500	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/28/2005
1,1-Dichloroethane	BQL	0.00500	1	7/28/2005
1,1-Dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloroethane	BQL	0.00500	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00500	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,3-Dichloropropane	BQL	0.00500	1	7/28/2005
2,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,1-Dichloropropene	BQL	0.00500	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00500	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/28/2005
Ethylbenzene	BQL	0.00500	1	7/28/2005
Hexachlorobutadiene	BQL	0.00500	1	7/28/2005
2-Hexanone	BQL	0.00500	1	7/28/2005
Iodomethane	BQL	0.00500	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00500	1	7/28/2005
4-Isopropyltoluene	BQL	0.00500	1	7/28/2005
Methylene chloride	BQL	0.0200	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00500	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/28/2005
Naphthalene	BQL	0.00500	1	7/28/2005
n-Propyl benzene	BQL	0.00500	1	7/28/2005
Styrene	BQL	0.00500	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
Tetrachloroethene	BQL	0.00500	1	7/28/2005
Toluene	BQL	0.00500	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/28/2005
Trichloroethene	BQL	0.00500	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00500	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00500	1	7/28/2005
Trichlorofluoromethane	BQL	0.00500	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00500	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/28/2005
Vinyl chloride	BQL	0.00500	1	7/28/2005
m-,p-Xylene	BQL	0.0100	1	7/28/2005
o-Xylene	BQL	0.00500	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0563	113
1,2-Dichloroethane-d4	0.05	0.0891	178 #
Toluene-d8	0.05	0.0534	107

Comments:
Surrogate recoveries could not be confirmed by duplicate analysis. Only one vial was received.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Trip Blank
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	100
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-10b

Reviewed By: RW

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100 0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/28/2005
Benzene	BQL	5.00	1	7/28/2005
Bromobenzene	BQL	5.00	1	7/28/2005
Bromochloromethane	BQL	5.00	1	7/28/2005
Bromodichloromethane	BQL	5.00	1	7/28/2005
Bromoform	BQL	5.00	1	7/28/2005
Bromomethane	BQL	5.00	1	7/28/2005
2-Butanone	BQL	25.0	1	7/28/2005
n-Butylbenzene	BQL	5.00	1	7/28/2005
sec-Butylbenzene	BQL	5.00	1	7/28/2005
tert-Butylbenzene	BQL	5.00	1	7/28/2005
Carbon disulfide	BQL	5.00	1	7/28/2005
Carbon tetrachloride	BQL	5.00	1	7/28/2005
Chlorobenzene	BQL	5.00	1	7/28/2005
Chloroethane	BQL	5.00	1	7/28/2005
Chloroform	BQL	5.00	1	7/28/2005
Chloromethane	BQL	5.00	1	7/28/2005
2-Chlorotoluene	BQL	5.00	1	7/28/2005
4-Chlorotoluene	BQL	5.00	1	7/28/2005
Dibromochloromethane	BQL	5.00	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/28/2005
Dibromomethane	BQL	5.00	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/28/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/28/2005
1,1-Dichloroethane	BQL	5.00	1	7/28/2005
1,1-Dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloroethane	BQL	5.00	1	7/28/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/28/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,3-Dichloropropane	BQL	5.00	1	7/28/2005
2,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,1-Dichloropropene	BQL	5.00	1	7/28/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
Dichlorodifluoromethane	BQL	5.00	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/28/2005
Ethylbenzene	BQL	5.00	1	7/28/2005
Hexachlorobutadiene	BQL	5.00	1	7/28/2005
2-Hexanone	BQL	5.00	1	7/28/2005
Iodomethane	BQL	5.00	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/28/2005
4-Isopropyltoluene	BQL	5.00	1	7/28/2005
Methylene chloride	BQL	20.0	1	7/28/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/28/2005
Naphthalene	BQL	5.00	1	7/28/2005
n-Propyl benzene	BQL	5.00	1	7/28/2005
Styrene	BQL	5.00	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
Tetrachloroethene	BQL	5.00	1	7/28/2005
Toluene	BQL	5.00	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/28/2005
Trichloroethene	BQL	5.00	1	7/28/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/28/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/28/2005
Trichlorofluoromethane	BQL	5.00	1	7/28/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/28/2005
Vinyl chloride	BQL	5.00	1	7/28/2005
m-,p-Xylene	BQL	10.0	1	7/28/2005
o-Xylene	BQL	5.00	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	56.8	114
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	51.3	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/29/2005
Benzene	BQL	5.00	1	7/29/2005
Bromobenzene	BQL	5.00	1	7/29/2005
Bromochloromethane	BQL	5.00	1	7/29/2005
Bromodichloromethane	BQL	5.00	1	7/29/2005
Bromoform	BQL	5.00	1	7/29/2005
Bromomethane	BQL	5.00	1	7/29/2005
2-Butanone	BQL	25.0	1	7/29/2005
n-Butylbenzene	BQL	5.00	1	7/29/2005
sec-Butylbenzene	BQL	5.00	1	7/29/2005
tert-Butylbenzene	BQL	5.00	1	7/29/2005
Carbon disulfide	BQL	5.00	1	7/29/2005
Carbon tetrachloride	BQL	5.00	1	7/29/2005
Chlorobenzene	BQL	5.00	1	7/29/2005
Chloroethane	BQL	5.00	1	7/29/2005
Chloroform	BQL	5.00	1	7/29/2005
Chloromethane	BQL	5.00	1	7/29/2005
2-Chlorotoluene	BQL	5.00	1	7/29/2005
4-Chlorotoluene	BQL	5.00	1	7/29/2005
Dibromochloromethane	BQL	5.00	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/29/2005
Dibromomethane	BQL	5.00	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/29/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/29/2005
1,1-Dichloroethane	BQL	5.00	1	7/29/2005
1,1-Dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloroethane	BQL	5.00	1	7/29/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/29/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,3-Dichloropropane	BQL	5.00	1	7/29/2005
2,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,1-Dichloropropene	BQL	5.00	1	7/29/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
Dichlorodifluoromethane	BQL	5.00	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/29/2005
Ethylbenzene	BQL	5.00	1	7/29/2005
Hexachlorobutadiene	BQL	5.00	1	7/29/2005
2-Hexanone	BQL	5.00	1	7/29/2005
Iodomethane	BQL	5.00	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/29/2005
4-Isopropyltoluene	BQL	5.00	1	7/29/2005
Methylene chloride	BQL	20.0	1	7/29/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/29/2005
Naphthalene	BQL	5.00	1	7/29/2005
n-Propyl benzene	BQL	5.00	1	7/29/2005
Styrene	BQL	5.00	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
Tetrachloroethene	BQL	5.00	1	7/29/2005
Toluene	BQL	5.00	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/29/2005
Trichloroethene	BQL	5.00	1	7/29/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/29/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/29/2005
Trichlorofluoromethane	BQL	5.00	1	7/29/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/29/2005
Vinyl chloride	BQL	5.00	1	7/29/2005
m-,p-Xylene	BQL	10.0	1	7/29/2005
o-Xylene	BQL	5.00	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	55.1	110
1,2-Dichloroethane-d4	50	59.7	119
Toluene-d8	50	51.1	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/28/2005
Benzene	BQL	5.00	1	7/28/2005
Bromobenzene	BQL	5.00	1	7/28/2005
Bromochloromethane	BQL	5.00	1	7/28/2005
Bromodichloromethane	BQL	5.00	1	7/28/2005
Bromoform	BQL	5.00	1	7/28/2005
Bromomethane	BQL	5.00	1	7/28/2005
2-Butanone	BQL	25.0	1	7/28/2005
n-Butylbenzene	BQL	5.00	1	7/28/2005
sec-Butylbenzene	BQL	5.00	1	7/28/2005
tert-Butylbenzene	BQL	5.00	1	7/28/2005
Carbon disulfide	BQL	5.00	1	7/28/2005
Carbon tetrachloride	BQL	5.00	1	7/28/2005
Chlorobenzene	BQL	5.00	1	7/28/2005
Chloroethane	BQL	5.00	1	7/28/2005
Chloroform	BQL	5.00	1	7/28/2005
Chloromethane	BQL	5.00	1	7/28/2005
2-Chlorotoluene	BQL	5.00	1	7/28/2005
4-Chlorotoluene	BQL	5.00	1	7/28/2005
Dibromochloromethane	BQL	5.00	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/28/2005
Dibromomethane	BQL	5.00	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/28/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/28/2005
1,1-Dichloroethane	BQL	5.00	1	7/28/2005
1,1-Dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloroethane	BQL	5.00	1	7/28/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/28/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,3-Dichloropropane	BQL	5.00	1	7/28/2005
2,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,1-Dichloropropene	BQL	5.00	1	7/28/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
Dichlorodifluoromethane	BQL	5.00	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/28/2005
Ethylbenzene	BQL	5.00	1	7/28/2005
Hexachlorobutadiene	BQL	5.00	1	7/28/2005
2-Hexanone	BQL	5.00	1	7/28/2005
Iodomethane	BQL	5.00	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/28/2005
4-Isopropyltoluene	BQL	5.00	1	7/28/2005
Methylene chloride	BQL	20.0	1	7/28/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/28/2005
Naphthalene	BQL	5.00	1	7/28/2005
n-Propyl benzene	BQL	5.00	1	7/28/2005
Styrene	BQL	5.00	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
Tetrachloroethene	BQL	5.00	1	7/28/2005
Toluene	BQL	5.00	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/28/2005
Trichloroethene	BQL	5.00	1	7/28/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/28/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/28/2005
Trichlorofluoromethane	BQL	5.00	1	7/28/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/28/2005
Vinyl chloride	BQL	5.00	1	7/28/2005
m-,p-Xylene	BQL	10.0	1	7/28/2005
o-Xylene	BQL	5.00	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	56.8	114
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	51.3	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3300	Date Received:	
Lab Project ID:		Matrix:	SOIL
Batch ID:	3300	Solids	100.00
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.00	1	MG/KG	6010B	7/26/2005
Barium	BQL	10.0	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.00	1	MG/KG	6010B	7/26/2005
Chromium	BQL	1.00	1	MG/KG	6010B	7/26/2005
Lead	BQL	1.00	1	MG/KG	6010B	7/27/2005
Selenium	BQL	2.00	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.00	1	MG/KG	6010B	7/26/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3327	Date Received:	
Lab Project ID:		Matrix:	SOIL
Batch ID:	3327	Solids	100.00
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.0200	1	MG/KG	7471	7/29/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g161-2081-1a
Batch ID: 3072805

Date Analyzed: 28 Jul 2005 6:30 pm
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	90.4	90.4	74.8	133	0.1	30
chlorobenzene	BQL	100	97.5	97.2	66.3	135	0.3	30
1,1-dichloroethene	BQL	100	106.4	101.3	72.0	135	4.9	30
toluene	BQL	100	97.1	96.7	70.5	138	0.3	30
trichloroethene	BQL	100	108.1	110.8	60.7	152	2.5	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs3072805a
Analyst: JTF
Batch ID: 3072805

Date Analyzed: 28 Jul 2005 9:00 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	100	83.93	83.9	77.6	122
chlorobenzene	100	99.15	99.1	75.3	125
1,1-dichloroethene	100	94.25	94.2	78.5	121
toluene	100	90.64	90.6	75.7	124
trichloroethene	100	97.25	97.2	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: _____

VO39.072303.1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/29/2005
Benzene	BQL	5.00	1	7/29/2005
Bromobenzene	BQL	5.00	1	7/29/2005
Bromochloromethane	BQL	5.00	1	7/29/2005
Bromodichloromethane	BQL	5.00	1	7/29/2005
Bromoform	BQL	5.00	1	7/29/2005
Bromomethane	BQL	5.00	1	7/29/2005
2-Butanone	BQL	25.0	1	7/29/2005
n-Butylbenzene	BQL	5.00	1	7/29/2005
sec-Butylbenzene	BQL	5.00	1	7/29/2005
tert-Butylbenzene	BQL	5.00	1	7/29/2005
Carbon disulfide	BQL	5.00	1	7/29/2005
Carbon tetrachloride	BQL	5.00	1	7/29/2005
Chlorobenzene	BQL	5.00	1	7/29/2005
Chloroethane	BQL	5.00	1	7/29/2005
Chloroform	BQL	5.00	1	7/29/2005
Chloromethane	BQL	5.00	1	7/29/2005
2-Chlorotoluene	BQL	5.00	1	7/29/2005
4-Chlorotoluene	BQL	5.00	1	7/29/2005
Dibromochloromethane	BQL	5.00	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/29/2005
Dibromomethane	BQL	5.00	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/29/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/29/2005
1,1-Dichloroethane	BQL	5.00	1	7/29/2005
1,1-Dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloroethane	BQL	5.00	1	7/29/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/29/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,3-Dichloropropane	BQL	5.00	1	7/29/2005
2,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,1-Dichloropropene	BQL	5.00	1	7/29/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
Dichlorodifluoromethane	BQL	5.00	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/29/2005
Ethylbenzene	BQL	5.00	1	7/29/2005
Hexachlorobutadiene	BQL	5.00	1	7/29/2005
2-Hexanone	BQL	5.00	1	7/29/2005
Iodomethane	BQL	5.00	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/29/2005
4-Isopropyltoluene	BQL	5.00	1	7/29/2005
Methylene chloride	BQL	20.0	1	7/29/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/29/2005
Naphthalene	BQL	5.00	1	7/29/2005
n-Propyl benzene	BQL	5.00	1	7/29/2005
Styrene	BQL	5.00	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
Tetrachloroethene	BQL	5.00	1	7/29/2005
Toluene	BQL	5.00	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/29/2005
Trichloroethene	BQL	5.00	1	7/29/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/29/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/29/2005
Trichlorofluoromethane	BQL	5.00	1	7/29/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/29/2005
Vinyl chloride	BQL	5.00	1	7/29/2005
m-,p-Xylene	BQL	10.0	1	7/29/2005
o-Xylene	BQL	5.00	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	55.1	110
1,2-Dichloroethane-d4	50	59.7	119
Toluene-d8	50	51.1	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g161-2081-4a
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 4:54 pm
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	89.1	86.8	74.8	133	2.7	30
chlorobenzene	BQL	100	112.1	108.9	66.3	135	2.9	30
1,1-dichloroethene	BQL	100	95.8	94.3	72.0	135	1.6	30
toluene	BQL	100	94.1	93.1	70.5	138	1.1	30
trichloroethene	BQL	100	95.9	95.2	60.7	152	0.8	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs3072905a
Analyst: JTF
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 9:38 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	100	89.00	89.0	77.6	122
chlorobenzene	100	106.55	106.5	75.3	125
1,1-dichloroethene	100	93.04	93.0	78.5	121
toluene	100	96.48	96.5	75.7	124
trichloroethene	100	99.00	99.0	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: mv

VO39.072303.1

Results for LCS/LCSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: lcs3072905b
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 9:07 am
Matrix: Soil
Analyzed By: JTF

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	100	87.4	89.0	77.6	122	1.8	30
chlorobenzene	100	109.4	106.5	75.3	125	2.6	30
1,1-dichloroethene	100	90.3	93.0	78.5	121	3.0	30
toluene	100	97.2	96.5	75.7	124	0.8	30
trichloroethene	100	97.3	99.0	60.8	139	1.7	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/28/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	16.7
C_{19}-C_{36} Aliphatics	160	-1.6
C_{11}-C_{22} Aromatics	340	-2.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date 08/02/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	17.4
C_{19}-C_{36} Aliphatics	160	4.5
C_{11}-C_{22} Aromatics	340	-7.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

METALS Results for LCS/LCD

ICP Batch: 3300
HG Batch: 3327
Other:

Matrix: SOIL
Units: MG/KG

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	40.0	36.9	92.2	37.5	93.8	80	120	1.61	20
Barium	200	181	90.5	185	92.5	80	120	2.19	20
Cadmium	40.0	34.5	86.2	35.5	88.8	80	120	2.86	20
Chromium	40.0	36.7	91.8	37.0	92.5	80	120	0.814	20
Lead	40.0	36.8	92.0	37.3	93.3	80	120	1.35	20
Mercury	0.500	0.503	101	0.517	103	80	120	2.75	20
Selenium	40.0	32.1	80.2	32.4	81.0	80	120	0.930	20
Silver	40.0	36	90.0	36.7	91.8	80	120	1.93	20

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G161-2048-16
MS Lab ID: G161-2048-16
MSD Lab ID: G161-2048-16
ICP Batch: 3300
HG Batch:
Other:

Analyzed By: PSW
Matrix: Soil
Units: MG/KG
Solids: 92.69

Analyte	Sample Result	SA MS	MS Result	MS %REC		SA MSD	MSD Result	MSD %REC		Limit Lower	Limit Upper	RPD		RPD Limit
Arsenic	6.91	41.5	39.5	78.5		41.5	38.9	77.1		75	125	1.53		20
Barium	67.2	207	305	115		207	299	112		75	125	1.99		20
Cadmium	BQL	41.5	36.3	87.5		41.5	36.4	87.7		75	125	0.275		20
Chromium	30.5	41.5	66.9	87.7		41.5	56.6	62.9	*	75	125	16.7		20
Lead	50	41.5	99.3	119		41.5	108	140	*	75	125	8.39		20
Selenium	BQL	41.5	33.7	81.2		41.5	33.8	81.4		75	125	0.296		20
Silver	BQL	41.5	38.0	91.6		41.5	37.9	91.3		75	125	0.264		20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G161-2081-4
MS Lab ID: G161-2081-4
MSD Lab ID: G161-2081-4
ICP Batch:
HG Batch: 3327
Other:

Analyzed By: RML
Matrix: Soil
Units: MG/KG
Solids: 90.93

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Mercury	0.024	0.539	0.594	106	0.550	0.621	109	75	125	4.44	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: _____

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47997

Page 1 of 1

Client: ECS, Ltd
Address: 6909 International Dr, 103
Address: Greensboro, NC 27409
Quote #: 1842

Project ID: Driggins Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160

Date: 7/21/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:

Report To: jricks@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Meth	Na Bis		Analyses: 8260/5035	EPH	VPH	8270 BN	8260	Total RCRA metals	Dry Weight			
D1-5	7/21/05	9:49	S	X	X	X		X	X	X	X						
D1-15		9:54		X	X	X		X	X	X	X						
D1-25		10:02		X	X	X		X	X	X	X						
D2-1		10:32		X							X	X	X				
D2-5		10:34		X							X	X	X				
D3-1		10:53		X							X	X	X				
D3-5		10:54		X							X	X	X				
D3-15		10:59		X							X	X	X				
Dup-4		—		X				X		X				X			
Trip Blank		—			X	X		X									

Comments: Please specify any special reporting requirements:

City of Greensboro Project

G161-2081

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/21/05	5:30	[signature]	7/22/05	1030	0.2°C	NC ⊗ SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	**5.09**	0.500	1	7/26/2005
1,1-Dichloroethene	**2.51**	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	**1.41**	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**25.1**	0.500	1	7/26/2005
Toluene	**0.540**	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	**1.56**	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.45	95
1,2-Dichloroethane-d4	10	8.82	88
Toluene-d8	10	9.82	98

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	DMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/22/05
Date Received	07/23/05
Date Extracted	07/25/05
Date Analyzed	07/25/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	79
Surrogate % Recovery - FID	81

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2083-1d

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	DMW-1
Sample Matrix	Water
Date Collected	07/22/05
Date Received	07/23/05
Date Extracted	07/29/05
Date Analyzed	08/01/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	94
Aromatic Surrogate % Recovery	93

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2083-1O

Reviewed By:

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1J
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/28/2005
Acenaphthylene	BQL	10.0	1	7/28/2005
Anthracene	BQL	10.0	1	7/28/2005
Benzo[a]anthracene	BQL	10.0	1	7/28/2005
Benzo[a]pyrene	BQL	10.0	1	7/28/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/28/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/28/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/28/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/28/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/28/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/28/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/28/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/28/2005
Butylbenzylphthalate	BQL	10.0	1	7/28/2005
2-Chloronaphthalene	BQL	10.0	1	7/28/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/28/2005
Chrysene	BQL	10.0	1	7/28/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/28/2005
Di-n-Butylphthalate	BQL	10.0	1	7/28/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/28/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/28/2005
Diethylphthalate	BQL	10.0	1	7/28/2005
Dimethylphthalate	BQL	10.0	1	7/28/2005
Di-n-octylphthalate	BQL	10.0	1	7/28/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/28/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/28/2005
Diphenylamine *	BQL	10.0	1	7/28/2005
Fluoranthene	BQL	10.0	1	7/28/2005
Fluorene	BQL	10.0	1	7/28/2005
Hexachlorobenzene	BQL	10.0	1	7/28/2005
Hexachlorobutadiene	BQL	10.0	1	7/28/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/28/2005
Hexachloroethane	BQL	10.0	1	7/28/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/28/2005
Isophorone	BQL	10.0	1	7/28/2005
Naphthalene	BQL	10.0	1	7/28/2005
Nitrobenzene	BQL	10.0	1	7/28/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/28/2005
Phenanthrene	BQL	10.0	1	7/28/2005
Pyrene	BQL	10.0	1	7/28/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1J
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.6	86
Nitrobenzene-d5	10	8.3	83
4-Terphenyl-d14	10	13.8	138

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: MW

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1J
Lab Project ID: G161-2083
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Date Analyzed: 7/28/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.83			111
2	Know Compound peak (added by lab)	11.80			111
3	Tetrachloroethylene	4.31	000127-18-4	98	6.38
4	Know Compound peak (added by lab)	12.22			3.58
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Metals

Client Sample ID:	DMW-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/22/2005 12:15
Lab Sample ID:	G161-2083-1	Date Received:	7/23/2005
Lab Project ID:	G161-2083	Matrix:	WATER
Batch ID:	3302 3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	**0.231**	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	5.00	10	7/26/2005
Bromobenzene	BQL	5.00	10	7/26/2005
Bromochloromethane	BQL	5.00	10	7/26/2005
Bromodichloromethane	BQL	5.00	10	7/26/2005
Bromoform	BQL	5.00	10	7/26/2005
Bromomethane	BQL	5.00	10	7/26/2005
n-Butylbenzene	BQL	5.00	10	7/26/2005
sec-Butylbenzene	BQL	5.00	10	7/26/2005
tert-Butylbenzene	BQL	5.00	10	7/26/2005
Carbon tetrachloride	BQL	5.00	10	7/26/2005
Chlorobenzene	BQL	5.00	10	7/26/2005
Chloroethane	BQL	5.00	10	7/26/2005
Chloroform	BQL	5.00	10	7/26/2005
Chloromethane	BQL	5.00	10	7/26/2005
2-Chlorotoluene	BQL	5.00	10	7/26/2005
4-Chlorotoluene	BQL	5.00	10	7/26/2005
Dibromochloromethane	BQL	5.00	10	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	50.0	10	7/26/2005
Dibromomethane	BQL	5.00	10	7/26/2005
1,2-Dibromoethane (EDB)	BQL	5.00	10	7/26/2005
1,2-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,3-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,4-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,1-Dichloroethane	**6.20**	5.00	10	7/26/2005
1,1-Dichloroethene	BQL	5.00	10	7/26/2005
1,2-Dichloroethane	BQL	5.00	10	7/26/2005
cis-1,2-Dichloroethene	BQL	5.00	10	7/26/2005
trans-1,2-dichloroethene	BQL	5.00	10	7/26/2005
1,2-Dichloropropane	BQL	5.00	10	7/26/2005
1,3-Dichloropropane	BQL	5.00	10	7/26/2005
2,2-Dichloropropane	BQL	5.00	10	7/26/2005
1,1-Dichloropropene	BQL	5.00	10	7/26/2005
Dichlorodifluoromethane	BQL	50.0	10	7/26/2005
Diisopropyl ether (DIPE)	BQL	5.00	10	7/26/2005
Ethylbenzene	BQL	5.00	10	7/26/2005
Hexachlorobutadiene	BQL	5.00	10	7/26/2005
Isopropylbenzene	BQL	5.00	10	7/26/2005
4-Isopropyltoluene	BQL	5.00	10	7/26/2005
Methylene chloride	BQL	50.0	10	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	10	7/26/2005
Naphthalene	BQL	5.00	10	7/26/2005
n-Propyl benzene	BQL	5.00	10	7/26/2005
Styrene	BQL	5.00	10	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	10	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	10	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**103**	5.00	10	7/26/2005
Toluene	BQL	5.00	10	7/26/2005
1,2,3-Trichlorobenzene	BQL	5.00	10	7/26/2005
1,2,4-Trichlorobenzene	BQL	5.00	10	7/26/2005
Trichloroethene	BQL	5.00	10	7/26/2005
1,1,1-Trichloroethane	BQL	5.00	10	7/26/2005
1,1,2-Trichloroethane	BQL	5.00	10	7/26/2005
Trichlorofluoromethane	BQL	5.00	10	7/26/2005
1,2,3-Trichloropropane	BQL	5.00	10	7/26/2005
1,2,4-Trimethylbenzene	BQL	5.00	10	7/26/2005
1,3,5-Trimethylbenzene	BQL	5.00	10	7/26/2005
Vinyl chloride	BQL	5.00	10	7/26/2005
m-,p-Xylene	BQL	10.0	10	7/26/2005
o-Xylene	BQL	5.00	10	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.68	97
1,2-Dichloroethane-d4	10	8.99	90
Toluene-d8	10	9.84	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/28/2005
Acenaphthylene	BQL	10.0	1	7/28/2005
Anthracene	BQL	10.0	1	7/28/2005
Benzo[a]anthracene	BQL	10.0	1	7/28/2005
Benzo[a]pyrene	BQL	10.0	1	7/28/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/28/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/28/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/28/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/28/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/28/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/28/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/28/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/28/2005
Butylbenzylphthalate	BQL	10.0	1	7/28/2005
2-Chloronaphthalene	BQL	10.0	1	7/28/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/28/2005
Chrysene	BQL	10.0	1	7/28/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/28/2005
Di-n-Butylphthalate	BQL	10.0	1	7/28/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/28/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/28/2005
Diethylphthalate	BQL	10.0	1	7/28/2005
Dimethylphthalate	BQL	10.0	1	7/28/2005
Di-n-octylphthalate	BQL	10.0	1	7/28/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/28/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/28/2005
Diphenylamine *	BQL	10.0	1	7/28/2005
Fluoranthene	BQL	10.0	1	7/28/2005
Fluorene	BQL	10.0	1	7/28/2005
Hexachlorobenzene	BQL	10.0	1	7/28/2005
Hexachlorobutadiene	BQL	10.0	1	7/28/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/28/2005
Hexachloroethane	BQL	10.0	1	7/28/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/28/2005
Isophorone	BQL	10.0	1	7/28/2005
Naphthalene	BQL	10.0	1	7/28/2005
Nitrobenzene	BQL	10.0	1	7/28/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/28/2005
Phenanthrene	BQL	10.0	1	7/28/2005
Pyrene	BQL	10.0	1	7/28/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.9	69
Nitrobenzene-d5	10	6.8	68
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Date Analyzed: 7/28/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Compound peak (added by lab)	11.80			134
2	Know solvent peak (added by lab)	3.83			78.8
3	Tetrachloroethylene	4.31	000127-18-4	97	18.6
4	Know Compound peak (solvent stabilizer)	6.14			5.45
5	Know Compound peak (added by lab)	12.22			5.25
6	Unknown	5.01			2.54
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Metals

Client Sample ID:	DMW-2	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/22/2005 11:15
Lab Sample ID:	G161-2083-2	Date Received:	7/23/2005
Lab Project ID:	G161-2083	Matrix:	WATER
Batch ID:	3302 3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	**0.181**	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	**0.0572**	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Volatiles
by GCMS 6210D

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-3A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	**5.22**	0.500	1	7/26/2005
1,1-Dichloroethene	**2.60**	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	**1.45**	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-3A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**25.6**	0.500	1	7/26/2005
Toluene	**0.560**	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	**1.63**	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.45	95
1,2-Dichloroethane-d4	10	9.13	91
Toluene-d8	10	9.85	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-4A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	BQL	0.500	1	7/26/2005
1,1-Dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	BQL	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-4A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	BQL	0.500	1	7/26/2005
Toluene	BQL	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	BQL	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.42	94
1,2-Dichloroethane-d4	10	8.69	87
Toluene-d8	10	9.88	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3302	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3302		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	BQL	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3313	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: MET_LIMS_3 1

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date 08/01/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.0
C_{19}-C_{36} Aliphatics	160	-4.3
C_{11}-C_{22} Aromatics	340	-10.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

METALS Results for LCS/LCD

ICP Batch: 3302
HG Batch: 3313
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	0.400	0.403	101	0.395	98.7	80	120	2.01	20
Barium	2.00	1.92	96.0	1.92	96.0	80	120	0	20
Cadmium	0.400	0.368	92.0	0.367	91.8	80	120	0.272	20
Chromium	0.400	0.383	95.8	0.379	94.7	80	120	1.05	20
Lead	0.400	0.38	95.0	0.382	95.5	80	120	0.525	20
Mercury	0.00625	0.00642	103	0.00636	102	80	120	0.939	20
Selenium	0.400	0.374	93.5	0.379	94.7	80	120	1.33	20
Silver	0.400	0.373	93.3	0.371	92.8	80	120	0.538	20

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G161-2083-1
MS Lab ID: G161-2083-1
MSD Lab ID: G161-2083-1
ICP Batch: 3302
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	BQL	0.400	0.398	99.5	0.400	0.404	101	75	125	1.50	20
Barium	0.231	2.00	2.08	92.5	2.00	2.11	94.0	75	125	1.43	20
Cadmium	BQL	0.400	0.352	88.0	0.400	0.361	90.2	75	125	2.52	20
Chromium	BQL	0.400	0.373	93.3	0.400	0.382	95.5	75	125	2.38	20
Lead	BQL	0.400	0.381	95.3	0.400	0.389	97.3	75	125	2.08	20
Selenium	BQL	0.400	0.369	92.3	0.400	0.386	96.5	75	125	4.50	20
Silver	BQL	0.400	0.366	91.5	0.400	0.376	94.0	75	125	2.70	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G132-1388-1
MS Lab ID: G132-1388-1
MSD Lab ID: G132-1388-1
ICP Batch:
HG Batch: 3313
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Mercury	0.00087	0.006	0.00661	91.84	0.006	0.00655	90.88	75	125	0.9119	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By:

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47800

Page 1 **of** 1

Client: ECS, Ltd **Project ID:** Puiggins Property **Date:** 7/22/05 **Report To:** jricks@ecslimited.com
Address: 6909 International Dr, Ste 103 **Contact:** Jason Ricks **Turnaround:** Standard
Address: Greensboro, NC 27409 **Phone:** (336)-856-7150 **Job Number:** G-9506
Quote #: 1842 **Fax:** 856-7160 **P.O. Number:** **Invoice To:**

Sample ID	Date	Time	Matrix	Preservatives: None	HCL	HNO_3		Analyses: 6210D	VPH	EPH	625 BN + 10 TICs	Total RCRA metals					
DMW-1	7/22/05	12:15	GW	X	X	X		X	X	X	X	X					
DMW-2	↓	11:15	GW	X	X	X		X			X	X					
Dup-4	↓	—	GW		X			X									
Trip Blank	↓	—	—		X			X									

Comments:
Please specify any special reporting requirements

City of Greensboro Project

G161-2083

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	7/22/05	4:30	[signature]	7/23/05	1035	0.7°C

State Certification Requested
NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

DWIGGINS PROPERTY
LABORATORY QA/QC DATA

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2081

Client Project: Dwiggins Property

Dear Mr. Ricks:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

8-5-01

Laboratory Director Date
J. Patrick Weaver

CASE NARRATIVE

Date: September 27, 2005

ECS Project ID: Dwiggins Property
Paradigm Analytical ID: G161-2081

Eight soil samples, a duplicate, and a trip blank were received at the laboratory July 22 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

All extractions and analyses were completed within holding time.

The following discussion details quality control results by parameter.

8260

All samples except Dup-4 passed surrogate spike limits. 1,2-dichloroethane-d4 recovered above control limit and was in both the original and second analysis. The high recovery for this surrogate appears to be due to matrix interference.

All MS/MSD pairs and LCSs passed recovery limits for the method required spiking compounds.

8270

All samples passed surrogate spike limits.

Both MS/MSD pairs passed all acceptance limits for method required spiking compounds.

Both associated LCSs passed all recovery limits allowing data validation.

VPH

Both samples passed surrogate spike limits.

The MS/MSD pairs passed acceptance limits.

The LCSs passed acceptance limits.

EPH

The samples passed surrogate spike limits.

The MS had low recovery for C9 o C18 aliphatics while the other fractions passed limits.

The data was validated with the passing LCSs recoveries

Metals

There were some failures in the MS/MSD pair.

The data was validated with the passing LCS recoveries.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47997

Page 1 of 1

Client: ECS, Ltd
Address: 6909 International Dr, 103
Address: Greensboro, NC 27409
Quote #: 1842

Project ID: Driggins Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160

Date: 7/21/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:

Report To: jricks@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Preservatives: Meth	Preservatives: Na Bis		Analyses: 8260/5035	Analyses: EDB	Analyses: VPH	Analyses: 8270 BN	Analyses: 8260	Analyses: Total RCRA metals	Analyses: Dry Weight			Comments: Please specify any special reporting requirements
D1-5	7/21/05	9:49	S	X	X	X		X	X	X	X						City of Greensboro Project
D1-15		9:54		X	X	X		X	X	X	X						
D1-25		10:02		X	X	X		X	X	X	X						
D2-1		10:32		X							X	X	X				
D2-5		10:34		X							X	X	X				
D3-1		10:53		X							X	X	X				
D3-5		10:54		X							X	X	X				
D3-15		10:59		X							X	X	X				G161-2081
Dup-4		–		X				X	Je	X				X			
Trip Blank		–			X	X		X									

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/21/05	5:30	[signature]	7/22/05	1030	0.2°C	NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0519	1	7/28/2005
Benzene	BQL	0.00519	1	7/28/2005
Bromobenzene	BQL	0.00519	1	7/28/2005
Bromochloromethane	BQL	0.00519	1	7/28/2005
Bromodichloromethane	BQL	0.00519	1	7/28/2005
Bromoform	BQL	0.00519	1	7/28/2005
Bromomethane	BQL	0.00519	1	7/28/2005
2-Butanone	BQL	0.0259	1	7/28/2005
n-Butylbenzene	BQL	0.00519	1	7/28/2005
sec-Butylbenzene	BQL	0.00519	1	7/28/2005
tert-Butylbenzene	BQL	0.00519	1	7/28/2005
Carbon disulfide	BQL	0.00519	1	7/28/2005
Carbon tetrachloride	BQL	0.00519	1	7/28/2005
Chlorobenzene	BQL	0.00519	1	7/28/2005
Chloroethane	BQL	0.00519	1	7/28/2005
Chloroform	BQL	0.00519	1	7/28/2005
Chloromethane	BQL	0.00519	1	7/28/2005
2-Chlorotoluene	BQL	0.00519	1	7/28/2005
4-Chlorotoluene	BQL	0.00519	1	7/28/2005
Dibromochloromethane	BQL	0.00519	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00519	1	7/28/2005
Dibromomethane	BQL	0.00519	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00519	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00519	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00519	1	7/28/2005
1,1-Dichloroethane	BQL	0.00519	1	7/28/2005
1,1-Dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloroethane	BQL	0.00519	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00519	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,3-Dichloropropane	BQL	0.00519	1	7/28/2005
2,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,1-Dichloropropene	BQL	0.00519	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00519	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00519	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00519	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00519	1	7/28/2005
Ethylbenzene	BQL	0.00519	1	7/28/2005
Hexachlorobutadiene	BQL	0.00519	1	7/28/2005
2-Hexanone	BQL	0.00519	1	7/28/2005
Iodomethane	BQL	0.00519	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00519	1	7/28/2005
4-Isopropyltoluene	BQL	0.00519	1	7/28/2005
Methylene chloride	BQL	0.0207	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00519	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00519	1	7/28/2005
Naphthalene	BQL	0.00519	1	7/28/2005
n-Propyl benzene	BQL	0.00519	1	7/28/2005
Styrene	BQL	0.00519	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
Tetrachloroethene	BQL	0.00519	1	7/28/2005
Toluene	BQL	0.00519	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00519	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00519	1	7/28/2005
Trichloroethene	BQL	0.00519	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00519	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00519	1	7/28/2005
Trichlorofluoromethane	BQL	0.00519	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00519	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00519	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00519	1	7/28/2005
Vinyl chloride	BQL	0.00519	1	7/28/2005
m-,p-Xylene	BQL	0.0104	1	7/28/2005
o-Xylene	BQL	0.00519	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0584	117
1,2-Dichloroethane-d4	0.05	0.0824	165
Toluene-d8	0.05	0.0529	106

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0426	1	7/28/2005
Benzene	BQL	0.00426	1	7/28/2005
Bromobenzene	BQL	0.00426	1	7/28/2005
Bromochloromethane	BQL	0.00426	1	7/28/2005
Bromodichloromethane	BQL	0.00426	1	7/28/2005
Bromoform	BQL	0.00426	1	7/28/2005
Bromomethane	BQL	0.00426	1	7/28/2005
2-Butanone	BQL	0.0213	1	7/28/2005
n-Butylbenzene	BQL	0.00426	1	7/28/2005
sec-Butylbenzene	BQL	0.00426	1	7/28/2005
tert-Butylbenzene	BQL	0.00426	1	7/28/2005
Carbon disulfide	BQL	0.00426	1	7/28/2005
Carbon tetrachloride	BQL	0.00426	1	7/28/2005
Chlorobenzene	BQL	0.00426	1	7/28/2005
Chloroethane	BQL	0.00426	1	7/28/2005
Chloroform	BQL	0.00426	1	7/28/2005
Chloromethane	BQL	0.00426	1	7/28/2005
2-Chlorotoluene	BQL	0.00426	1	7/28/2005
4-Chlorotoluene	BQL	0.00426	1	7/28/2005
Dibromochloromethane	BQL	0.00426	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00426	1	7/28/2005
Dibromomethane	BQL	0.00426	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00426	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00426	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00426	1	7/28/2005
1,1-Dichloroethane	BQL	0.00426	1	7/28/2005
1,1-Dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloroethane	BQL	0.00426	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00426	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,3-Dichloropropane	BQL	0.00426	1	7/28/2005
2,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,1-Dichloropropene	BQL	0.00426	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00426	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00426	1	7/28/2005
Ethylbenzene	BQL	0.00426	1	7/28/2005
Hexachlorobutadiene	BQL	0.00426	1	7/28/2005
2-Hexanone	BQL	0.00426	1	7/28/2005
Iodomethane	BQL	0.00426	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00426	1	7/28/2005
4-Isopropyltoluene	BQL	0.00426	1	7/28/2005
Methylene chloride	BQL	0.0170	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00426	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00426	1	7/28/2005
Naphthalene	BQL	0.00426	1	7/28/2005
n-Propyl benzene	BQL	0.00426	1	7/28/2005
Styrene	BQL	0.00426	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
Tetrachloroethene	BQL	0.00426	1	7/28/2005
Toluene	BQL	0.00426	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00426	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00426	1	7/28/2005
Trichloroethene	BQL	0.00426	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00426	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00426	1	7/28/2005
Trichlorofluoromethane	BQL	0.00426	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00426	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00426	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00426	1	7/28/2005
Vinyl chloride	BQL	0.00426	1	7/28/2005
m-,p-Xylene	BQL	0.00852	1	7/28/2005
o-Xylene	BQL	0.00426	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0574	115
1,2-Dichloroethane-d4	0.05	0.0845	169
Toluene-d8	0.05	0.0534	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0421	1	7/29/2005
Benzene	BQL	0.00421	1	7/29/2005
Bromobenzene	BQL	0.00421	1	7/29/2005
Bromochloromethane	BQL	0.00421	1	7/29/2005
Bromodichloromethane	BQL	0.00421	1	7/29/2005
Bromoform	BQL	0.00421	1	7/29/2005
Bromomethane	BQL	0.00421	1	7/29/2005
2-Butanone	BQL	0.0211	1	7/29/2005
n-Butylbenzene	BQL	0.00421	1	7/29/2005
sec-Butylbenzene	BQL	0.00421	1	7/29/2005
tert-Butylbenzene	BQL	0.00421	1	7/29/2005
Carbon disulfide	BQL	0.00421	1	7/29/2005
Carbon tetrachloride	BQL	0.00421	1	7/29/2005
Chlorobenzene	BQL	0.00421	1	7/29/2005
Chloroethane	BQL	0.00421	1	7/29/2005
Chloroform	BQL	0.00421	1	7/29/2005
Chloromethane	BQL	0.00421	1	7/29/2005
2-Chlorotoluene	BQL	0.00421	1	7/29/2005
4-Chlorotoluene	BQL	0.00421	1	7/29/2005
Dibromochloromethane	BQL	0.00421	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00421	1	7/29/2005
Dibromomethane	BQL	0.00421	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00421	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00421	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00421	1	7/29/2005
1,1-Dichloroethane	BQL	0.00421	1	7/29/2005
1,1-Dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloroethane	BQL	0.00421	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00421	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,3-Dichloropropane	BQL	0.00421	1	7/29/2005
2,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,1-Dichloropropene	BQL	0.00421	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00421	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00421	1	7/29/2005
Ethylbenzene	BQL	0.00421	1	7/29/2005
Hexachlorobutadiene	BQL	0.00421	1	7/29/2005
2-Hexanone	BQL	0.00421	1	7/29/2005
Iodomethane	BQL	0.00421	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00421	1	7/29/2005
4-Isopropyltoluene	BQL	0.00421	1	7/29/2005
Methylene chloride	BQL	0.0168	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00421	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00421	1	7/29/2005
Naphthalene	BQL	0.00421	1	7/29/2005
n-Propyl benzene	BQL	0.00421	1	7/29/2005
Styrene	BQL	0.00421	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
Tetrachloroethene	BQL	0.00421	1	7/29/2005
Toluene	BQL	0.00421	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00421	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00421	1	7/29/2005
Trichloroethene	BQL	0.00421	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00421	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00421	1	7/29/2005
Trichlorofluoromethane	BQL	0.00421	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00421	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00421	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00421	1	7/29/2005
Vinyl chloride	BQL	0.00421	1	7/29/2005
m-,p-Xylene	BQL	0.00842	1	7/29/2005
o-Xylene	BQL	0.00421	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0586	117
1,2-Dichloroethane-d4	0.05	0.0601	120
Toluene-d8	0.05	0.0506	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0550	1	7/29/2005
Benzene	BQL	0.00550	1	7/29/2005
Bromobenzene	BQL	0.00550	1	7/29/2005
Bromochloromethane	BQL	0.00550	1	7/29/2005
Bromodichloromethane	BQL	0.00550	1	7/29/2005
Bromoform	BQL	0.00550	1	7/29/2005
Bromomethane	BQL	0.00550	1	7/29/2005
2-Butanone	BQL	0.0275	1	7/29/2005
n-Butylbenzene	BQL	0.00550	1	7/29/2005
sec-Butylbenzene	BQL	0.00550	1	7/29/2005
tert-Butylbenzene	BQL	0.00550	1	7/29/2005
Carbon disulfide	BQL	0.00550	1	7/29/2005
Carbon tetrachloride	BQL	0.00550	1	7/29/2005
Chlorobenzene	BQL	0.00550	1	7/29/2005
Chloroethane	BQL	0.00550	1	7/29/2005
Chloroform	BQL	0.00550	1	7/29/2005
Chloromethane	BQL	0.00550	1	7/29/2005
2-Chlorotoluene	BQL	0.00550	1	7/29/2005
4-Chlorotoluene	BQL	0.00550	1	7/29/2005
Dibromochloromethane	BQL	0.00550	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00550	1	7/29/2005
Dibromomethane	BQL	0.00550	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00550	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00550	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00550	1	7/29/2005
1,1-Dichloroethane	BQL	0.00550	1	7/29/2005
1,1-Dichloroethene	BQL	0.00550	1	7/29/2005
1,2-Dichloroethane	BQL	0.00550	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00550	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00550	1	7/29/2005
1,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,3-Dichloropropane	BQL	0.00550	1	7/29/2005
2,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,1-Dichloropropene	BQL	0.00550	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00550	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00550	1	7/29/2005
Ethylbenzene	BQL	0.00550	1	7/29/2005
Hexachlorobutadiene	BQL	0.00550	1	7/29/2005
2-Hexanone	BQL	0.00550	1	7/29/2005
Iodomethane	BQL	0.00550	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00550	1	7/29/2005
4-Isopropyltoluene	BQL	0.00550	1	7/29/2005
Methylene chloride	BQL	0.0220	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00550	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00550	1	7/29/2005
Naphthalene	BQL	0.00550	1	7/29/2005
n-Propyl benzene	BQL	0.00550	1	7/29/2005
Styrene	BQL	0.00550	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
Tetrachloroethene	BQL	0.00550	1	7/29/2005
Toluene	BQL	0.00550	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00550	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00550	1	7/29/2005
Trichloroethene	BQL	0.00550	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00550	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00550	1	7/29/2005
Trichlorofluoromethane	BQL	0.00550	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00550	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00550	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00550	1	7/29/2005
Vinyl chloride	BQL	0.00550	1	7/29/2005
m-,p-Xylene	BQL	0.0110	1	7/29/2005
o-Xylene	BQL	0.00550	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0612	122
1,2-Dichloroethane-d4	0.05	0.062	124
Toluene-d8	0.05	0.0513	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-5A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:34
Date Received: 7/22/2005
Matrix: Soil
%Solids: 77.7

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0643	1	7/29/2005
Benzene	BQL	0.00643	1	7/29/2005
Bromobenzene	BQL	0.00643	1	7/29/2005
Bromochloromethane	BQL	0.00643	1	7/29/2005
Bromodichloromethane	BQL	0.00643	1	7/29/2005
Bromoform	BQL	0.00643	1	7/29/2005
Bromomethane	BQL	0.00643	1	7/29/2005
2-Butanone	BQL	0.0322	1	7/29/2005
n-Butylbenzene	BQL	0.00643	1	7/29/2005
sec-Butylbenzene	BQL	0.00643	1	7/29/2005
tert-Butylbenzene	BQL	0.00643	1	7/29/2005
Carbon disulfide	BQL	0.00643	1	7/29/2005
Carbon tetrachloride	BQL	0.00643	1	7/29/2005
Chlorobenzene	BQL	0.00643	1	7/29/2005
Chloroethane	BQL	0.00643	1	7/29/2005
Chloroform	BQL	0.00643	1	7/29/2005
Chloromethane	BQL	0.00643	1	7/29/2005
2-Chlorotoluene	BQL	0.00643	1	7/29/2005
4-Chlorotoluene	BQL	0.00643	1	7/29/2005
Dibromochloromethane	BQL	0.00643	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00643	1	7/29/2005
Dibromomethane	BQL	0.00643	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00643	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00643	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00643	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00643	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00643	1	7/29/2005
1,1-Dichloroethane	BQL	0.00643	1	7/29/2005
1,1-Dichloroethene	BQL	0.00643	1	7/29/2005
1,2-Dichloroethane	BQL	0.00643	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00643	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00643	1	7/29/2005
1,2-Dichloropropane	BQL	0.00643	1	7/29/2005
1,3-Dichloropropane	BQL	0.00643	1	7/29/2005
2,2-Dichloropropane	BQL	0.00643	1	7/29/2005
1,1-Dichloropropene	BQL	0.00643	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00643	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00643	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00643	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00643	1	7/29/2005
Ethylbenzene	BQL	0.00643	1	7/29/2005
Hexachlorobutadiene	BQL	0.00643	1	7/29/2005
2-Hexanone	BQL	0.00643	1	7/29/2005
Iodomethane	BQL	0.00643	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-5A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:34
Date Received: 7/22/2005
Matrix: Soil
%Solids: 77.7

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00643	1	7/29/2005
4-Isopropyltoluene	BQL	0.00643	1	7/29/2005
Methylene chloride	BQL	0.0257	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00643	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00643	1	7/29/2005
Naphthalene	BQL	0.00643	1	7/29/2005
n-Propyl benzene	BQL	0.00643	1	7/29/2005
Styrene	BQL	0.00643	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00643	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00643	1	7/29/2005
Tetrachloroethene	BQL	0.00643	1	7/29/2005
Toluene	BQL	0.00643	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00643	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00643	1	7/29/2005
Trichloroethene	BQL	0.00643	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00643	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00643	1	7/29/2005
Trichlorofluoromethane	BQL	0.00643	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00643	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00643	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00643	1	7/29/2005
Vinyl chloride	BQL	0.00643	1	7/29/2005
m-,p-Xylene	BQL	0.0129	1	7/29/2005
o-Xylene	BQL	0.00643	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0556	111
1,2-Dichloroethane-d4	0.05	0.07	140
Toluene-d8	0.05	0.0522	104

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-6A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:53
Date Received: 7/22/2005
Matrix: Soil
%Solids: 76.5

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0653	1	7/28/2005
Benzene	BQL	0.00653	1	7/28/2005
Bromobenzene	BQL	0.00653	1	7/28/2005
Bromochloromethane	BQL	0.00653	1	7/28/2005
Bromodichloromethane	BQL	0.00653	1	7/28/2005
Bromoform	BQL	0.00653	1	7/28/2005
Bromomethane	BQL	0.00653	1	7/28/2005
2-Butanone	BQL	0.0327	1	7/28/2005
n-Butylbenzene	BQL	0.00653	1	7/28/2005
sec-Butylbenzene	BQL	0.00653	1	7/28/2005
tert-Butylbenzene	BQL	0.00653	1	7/28/2005
Carbon disulfide	BQL	0.00653	1	7/28/2005
Carbon tetrachloride	BQL	0.00653	1	7/28/2005
Chlorobenzene	BQL	0.00653	1	7/28/2005
Chloroethane	BQL	0.00653	1	7/28/2005
Chloroform	BQL	0.00653	1	7/28/2005
Chloromethane	BQL	0.00653	1	7/28/2005
2-Chlorotoluene	BQL	0.00653	1	7/28/2005
4-Chlorotoluene	BQL	0.00653	1	7/28/2005
Dibromochloromethane	BQL	0.00653	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00653	1	7/28/2005
Dibromomethane	BQL	0.00653	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00653	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00653	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00653	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00653	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00653	1	7/28/2005
1,1-Dichloroethane	BQL	0.00653	1	7/28/2005
1,1-Dichloroethene	BQL	0.00653	1	7/28/2005
1,2-Dichloroethane	BQL	0.00653	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00653	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00653	1	7/28/2005
1,2-Dichloropropane	BQL	0.00653	1	7/28/2005
1,3-Dichloropropane	BQL	0.00653	1	7/28/2005
2,2-Dichloropropane	BQL	0.00653	1	7/28/2005
1,1-Dichloropropene	BQL	0.00653	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00653	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00653	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00653	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00653	1	7/28/2005
Ethylbenzene	BQL	0.00653	1	7/28/2005
Hexachlorobutadiene	BQL	0.00653	1	7/28/2005
2-Hexanone	BQL	0.00653	1	7/28/2005
Iodomethane	BQL	0.00653	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-6A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:53
Date Received: 7/22/2005
Matrix: Soil
%Solids: 76.5

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00653	1	7/28/2005
4-Isopropyltoluene	BQL	0.00653	1	7/28/2005
Methylene chloride	BQL	0.0261	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00653	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00653	1	7/28/2005
Naphthalene	BQL	0.00653	1	7/28/2005
n-Propyl benzene	BQL	0.00653	1	7/28/2005
Styrene	BQL	0.00653	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00653	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00653	1	7/28/2005
Tetrachloroethene	BQL	0.00653	1	7/28/2005
Toluene	BQL	0.00653	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00653	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00653	1	7/28/2005
Trichloroethene	BQL	0.00653	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00653	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00653	1	7/28/2005
Trichlorofluoromethane	BQL	0.00653	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00653	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00653	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00653	1	7/28/2005
Vinyl chloride	BQL	0.00653	1	7/28/2005
m-,p-Xylene	BQL	0.0131	1	7/28/2005
o-Xylene	BQL	0.00653	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0593	119
1,2-Dichloroethane-d4	0.05	0.0736	147
Toluene-d8	0.05	0.0516	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-7A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0567	1	7/28/2005
Benzene	BQL	0.00567	1	7/28/2005
Bromobenzene	BQL	0.00567	1	7/28/2005
Bromochloromethane	BQL	0.00567	1	7/28/2005
Bromodichloromethane	BQL	0.00567	1	7/28/2005
Bromoform	BQL	0.00567	1	7/28/2005
Bromomethane	BQL	0.00567	1	7/28/2005
2-Butanone	BQL	0.0284	1	7/28/2005
n-Butylbenzene	BQL	0.00567	1	7/28/2005
sec-Butylbenzene	BQL	0.00567	1	7/28/2005
tert-Butylbenzene	BQL	0.00567	1	7/28/2005
Carbon disulfide	BQL	0.00567	1	7/28/2005
Carbon tetrachloride	BQL	0.00567	1	7/28/2005
Chlorobenzene	BQL	0.00567	1	7/28/2005
Chloroethane	BQL	0.00567	1	7/28/2005
Chloroform	BQL	0.00567	1	7/28/2005
Chloromethane	BQL	0.00567	1	7/28/2005
2-Chlorotoluene	BQL	0.00567	1	7/28/2005
4-Chlorotoluene	BQL	0.00567	1	7/28/2005
Dibromochloromethane	BQL	0.00567	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00567	1	7/28/2005
Dibromomethane	BQL	0.00567	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00567	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00567	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00567	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00567	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00567	1	7/28/2005
1,1-Dichloroethane	BQL	0.00567	1	7/28/2005
1,1-Dichloroethene	BQL	0.00567	1	7/28/2005
1,2-Dichloroethane	BQL	0.00567	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00567	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00567	1	7/28/2005
1,2-Dichloropropane	BQL	0.00567	1	7/28/2005
1,3-Dichloropropane	BQL	0.00567	1	7/28/2005
2,2-Dichloropropane	BQL	0.00567	1	7/28/2005
1,1-Dichloropropene	BQL	0.00567	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00567	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00567	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00567	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00567	1	7/28/2005
Ethylbenzene	BQL	0.00567	1	7/28/2005
Hexachlorobutadiene	BQL	0.00567	1	7/28/2005
2-Hexanone	BQL	0.00567	1	7/28/2005
Iodomethane	BQL	0.00567	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-7A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00567	1	7/28/2005
4-Isopropyltoluene	BQL	0.00567	1	7/28/2005
Methylene chloride	BQL	0.0227	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00567	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00567	1	7/28/2005
Naphthalene	BQL	0.00567	1	7/28/2005
n-Propyl benzene	BQL	0.00567	1	7/28/2005
Styrene	BQL	0.00567	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00567	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00567	1	7/28/2005
Tetrachloroethene	BQL	0.00567	1	7/28/2005
Toluene	BQL	0.00567	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00567	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00567	1	7/28/2005
Trichloroethene	BQL	0.00567	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00567	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00567	1	7/28/2005
Trichlorofluoromethane	BQL	0.00567	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00567	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00567	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00567	1	7/28/2005
Vinyl chloride	BQL	0.00567	1	7/28/2005
m-,p-Xylene	BQL	0.0113	1	7/28/2005
o-Xylene	BQL	0.00567	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.066	132
1,2-Dichloroethane-d4	0.05	0.0694	139
Toluene-d8	0.05	0.0506	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-8A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:59
Date Received: 7/22/2005
Matrix: Soil
%Solids: 87.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0569	1	7/28/2005
Benzene	BQL	0.00569	1	7/28/2005
Bromobenzene	BQL	0.00569	1	7/28/2005
Bromochloromethane	BQL	0.00569	1	7/28/2005
Bromodichloromethane	BQL	0.00569	1	7/28/2005
Bromoform	BQL	0.00569	1	7/28/2005
Bromomethane	BQL	0.00569	1	7/28/2005
2-Butanone	BQL	0.0285	1	7/28/2005
n-Butylbenzene	BQL	0.00569	1	7/28/2005
sec-Butylbenzene	BQL	0.00569	1	7/28/2005
tert-Butylbenzene	BQL	0.00569	1	7/28/2005
Carbon disulfide	BQL	0.00569	1	7/28/2005
Carbon tetrachloride	BQL	0.00569	1	7/28/2005
Chlorobenzene	BQL	0.00569	1	7/28/2005
Chloroethane	BQL	0.00569	1	7/28/2005
Chloroform	BQL	0.00569	1	7/28/2005
Chloromethane	BQL	0.00569	1	7/28/2005
2-Chlorotoluene	BQL	0.00569	1	7/28/2005
4-Chlorotoluene	BQL	0.00569	1	7/28/2005
Dibromochloromethane	BQL	0.00569	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00569	1	7/28/2005
Dibromomethane	BQL	0.00569	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00569	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00569	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00569	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00569	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00569	1	7/28/2005
1,1-Dichloroethane	BQL	0.00569	1	7/28/2005
1,1-Dichloroethene	BQL	0.00569	1	7/28/2005
1,2-Dichloroethane	BQL	0.00569	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00569	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00569	1	7/28/2005
1,2-Dichloropropane	BQL	0.00569	1	7/28/2005
1,3-Dichloropropane	BQL	0.00569	1	7/28/2005
2,2-Dichloropropane	BQL	0.00569	1	7/28/2005
1,1-Dichloropropene	BQL	0.00569	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00569	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00569	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00569	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00569	1	7/28/2005
Ethylbenzene	BQL	0.00569	1	7/28/2005
Hexachlorobutadiene	BQL	0.00569	1	7/28/2005
2-Hexanone	BQL	0.00569	1	7/28/2005
Iodomethane	BQL	0.00569	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-8A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:59
Date Received: 7/22/2005
Matrix: Soil
%Solids: 87.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00569	1	7/28/2005
4-Isopropyltoluene	BQL	0.00569	1	7/28/2005
Methylene chloride	BQL	0.0228	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00569	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00569	1	7/28/2005
Naphthalene	BQL	0.00569	1	7/28/2005
n-Propyl benzene	BQL	0.00569	1	7/28/2005
Styrene	BQL	0.00569	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00569	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00569	1	7/28/2005
Tetrachloroethene	BQL	0.00569	1	7/28/2005
Toluene	BQL	0.00569	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00569	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00569	1	7/28/2005
Trichloroethene	BQL	0.00569	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00569	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00569	1	7/28/2005
Trichlorofluoromethane	BQL	0.00569	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00569	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00569	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00569	1	7/28/2005
Vinyl chloride	BQL	0.00569	1	7/28/2005
m-,p-Xylene	BQL	0.0114	1	7/28/2005
o-Xylene	BQL	0.00569	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0572	114
1,2-Dichloroethane-d4	0.05	0.074	148
Toluene-d8	0.05	0.052	104

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86 8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0403	1	7/28/05
Benzene	BQL	0.00403	1	7/28/05
Bromobenzene	BQL	0.00403	1	7/28/05
Bromochloromethane	BQL	0.00403	1	7/28/05
Bromodichloromethane	BQL	0.00403	1	7/28/05
Bromoform	BQL	0.00403	1	7/28/05
Bromomethane	BQL	0.00403	1	7/28/05
2-Butanone	BQL	0.0201	1	7/28/05
n-Butylbenzene	BQL	0.00403	1	7/28/05
sec-Butylbenzene	BQL	0.00403	1	7/28/05
tert-Butylbenzene	BQL	0.00403	1	7/28/05
Carbon disulfide	BQL	0.00403	1	7/28/05
Carbon tetrachloride	BQL	0.00403	1	7/28/05
Chlorobenzene	BQL	0.00403	1	7/28/05
Chloroethane	BQL	0.00403	1	7/28/05
Chloroform	BQL	0.00403	1	7/28/05
Chloromethane	BQL	0.00403	1	7/28/05
2-Chlorotoluene	BQL	0.00403	1	7/28/05
4-Chlorotoluene	BQL	0.00403	1	7/28/05
Dibromochloromethane	BQL	0.00403	1	7/28/05
1,2-Dibromo-3-chloropropane	BQL	0.00403	1	7/28/05
Dibromomethane	BQL	0.00403	1	7/28/05
1,2-Dibromoethane (EDB)	BQL	0.00403	1	7/28/05
1,2-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,3-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,4-Dichlorobenzene	BQL	0.00403	1	7/28/05
trans-1,4-Dichloro-2-butene	BQL	0.00403	1	7/28/05
1,1-Dichloroethane	BQL	0.00403	1	7/28/05
1,1-Dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloroethane	BQL	0.00403	1	7/28/05
cis-1,2-Dichloroethene	BQL	0.00403	1	7/28/05
trans-1,2-dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,3-Dichloropropane	BQL	0.00403	1	7/28/05
2,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,1-Dichloropropene	BQL	0.00403	1	7/28/05
cis-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
trans-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
Dichlorodifluoromethane	BQL	0.00403	1	7/28/05
Diisopropyl ether (DIPE)	BQL	0.00403	1	7/28/05
Ethylbenzene	BQL	0.00403	1	7/28/05
Hexachlorobutadiene	BQL	0.00403	1	7/28/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86.8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00403	1	7/28/05
Iodomethane	BQL	0.00403	1	7/28/05
Isopropylbenzene	BQL	0.00403	1	7/28/05
4-Isopropyltoluene	BQL	0.00403	1	7/28/05
Methylene chloride	BQL	0.0161	1	7/28/05
4-Methyl-2-pentanone	BQL	0.00403	1	7/28/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00403	1	7/28/05
Naphthalene	BQL	0.00403	1	7/28/05
n-Propyl benzene	BQL	0.00403	1	7/28/05
Styrene	BQL	0.00403	1	7/28/05
1,1,1,2-Tetrachloroethane	BQL	0.00403	1	7/28/05
1,1,2,2-Tetrachloroethane	BQL	0.00403	1	7/28/05
Tetrachloroethene	BQL	0.00403	1	7/28/05
Toluene	BQL	0.00403	1	7/28/05
1,2,3-Trichlorobenzene	BQL	0.00403	1	7/28/05
1,2,4-Trichlorobenzene	BQL	0.00403	1	7/28/05
Trichloroethene	BQL	0.00403	1	7/28/05
1,1,1-Trichloroethane	BQL	0.00403	1	7/28/05
1,1,2-Trichloroethane	BQL	0.00403	1	7/28/05
Trichlorofluoromethane	BQL	0.00403	1	7/28/05
1,2,3-Trichloropropane	BQL	0.00403	1	7/28/05
1,2,4-Trimethylbenzene	BQL	0.00403	1	7/28/05
1,3,5-Trimethylbenzene	BQL	0.00403	1	7/28/05
Vinyl chloride	BQL	0.00403	1	7/28/05
m-,p-Xylene	BQL	0.00805	1	7/28/05
o-Xylene	BQL	0.00403	1	7/28/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0577	115
1,2-Dichloroethane-d4	0.05	0.0879	176 #
Toluene-d8	0.05	0.0535	107

Comments:
= Surrogate recovery above limit. Confirmed by duplicate analysis.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100 0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/28/2005
Benzene	BQL	0.00500	1	7/28/2005
Bromobenzene	BQL	0.00500	1	7/28/2005
Bromochloromethane	BQL	0.00500	1	7/28/2005
Bromodichloromethane	BQL	0.00500	1	7/28/2005
Bromoform	BQL	0.00500	1	7/28/2005
Bromomethane	BQL	0.00500	1	7/28/2005
2-Butanone	BQL	0.0250	1	7/28/2005
n-Butylbenzene	BQL	0.00500	1	7/28/2005
sec-Butylbenzene	BQL	0.00500	1	7/28/2005
tert-Butylbenzene	BQL	0.00500	1	7/28/2005
Carbon disulfide	BQL	0.00500	1	7/28/2005
Carbon tetrachloride	BQL	0.00500	1	7/28/2005
Chlorobenzene	BQL	0.00500	1	7/28/2005
Chloroethane	BQL	0.00500	1	7/28/2005
Chloroform	BQL	0.00500	1	7/28/2005
Chloromethane	BQL	0.00500	1	7/28/2005
2-Chlorotoluene	BQL	0.00500	1	7/28/2005
4-Chlorotoluene	BQL	0.00500	1	7/28/2005
Dibromochloromethane	BQL	0.00500	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/28/2005
Dibromomethane	BQL	0.00500	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00500	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/28/2005
1,1-Dichloroethane	BQL	0.00500	1	7/28/2005
1,1-Dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloroethane	BQL	0.00500	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00500	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,3-Dichloropropane	BQL	0.00500	1	7/28/2005
2,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,1-Dichloropropene	BQL	0.00500	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00500	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/28/2005
Ethylbenzene	BQL	0.00500	1	7/28/2005
Hexachlorobutadiene	BQL	0.00500	1	7/28/2005
2-Hexanone	BQL	0.00500	1	7/28/2005
Iodomethane	BQL	0.00500	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00500	1	7/28/2005
4-Isopropyltoluene	BQL	0.00500	1	7/28/2005
Methylene chloride	BQL	0.0200	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00500	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/28/2005
Naphthalene	BQL	0.00500	1	7/28/2005
n-Propyl benzene	BQL	0.00500	1	7/28/2005
Styrene	BQL	0.00500	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
Tetrachloroethene	BQL	0.00500	1	7/28/2005
Toluene	BQL	0.00500	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/28/2005
Trichloroethene	BQL	0.00500	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00500	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00500	1	7/28/2005
Trichlorofluoromethane	BQL	0.00500	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00500	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/28/2005
Vinyl chloride	BQL	0.00500	1	7/28/2005
m-,p-Xylene	BQL	0.0100	1	7/28/2005
o-Xylene	BQL	0.00500	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0563	113
1,2-Dichloroethane-d4	0.05	0.0891	178 #
Toluene-d8	0.05	0.0534	107

Comments:
Surrogate recoveries could not be confirmed by duplicate analysis. Only one vial was received.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/28/2005
Benzene	BQL	5.00	1	7/28/2005
Bromobenzene	BQL	5.00	1	7/28/2005
Bromochloromethane	BQL	5.00	1	7/28/2005
Bromodichloromethane	BQL	5.00	1	7/28/2005
Bromoform	BQL	5.00	1	7/28/2005
Bromomethane	BQL	5.00	1	7/28/2005
2-Butanone	BQL	25.0	1	7/28/2005
n-Butylbenzene	BQL	5.00	1	7/28/2005
sec-Butylbenzene	BQL	5.00	1	7/28/2005
tert-Butylbenzene	BQL	5.00	1	7/28/2005
Carbon disulfide	BQL	5.00	1	7/28/2005
Carbon tetrachloride	BQL	5.00	1	7/28/2005
Chlorobenzene	BQL	5.00	1	7/28/2005
Chloroethane	BQL	5.00	1	7/28/2005
Chloroform	BQL	5.00	1	7/28/2005
Chloromethane	BQL	5.00	1	7/28/2005
2-Chlorotoluene	BQL	5.00	1	7/28/2005
4-Chlorotoluene	BQL	5.00	1	7/28/2005
Dibromochloromethane	BQL	5.00	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/28/2005
Dibromomethane	BQL	5.00	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/28/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/28/2005
1,1-Dichloroethane	BQL	5.00	1	7/28/2005
1,1-Dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloroethane	BQL	5.00	1	7/28/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/28/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,3-Dichloropropane	BQL	5.00	1	7/28/2005
2,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,1-Dichloropropene	BQL	5.00	1	7/28/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
Dichlorodifluoromethane	BQL	5.00	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/28/2005
Ethylbenzene	BQL	5.00	1	7/28/2005
Hexachlorobutadiene	BQL	5.00	1	7/28/2005
2-Hexanone	BQL	5.00	1	7/28/2005
Iodomethane	BQL	5.00	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/28/2005
4-Isopropyltoluene	BQL	5.00	1	7/28/2005
Methylene chloride	BQL	20.0	1	7/28/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/28/2005
Naphthalene	BQL	5.00	1	7/28/2005
n-Propyl benzene	BQL	5.00	1	7/28/2005
Styrene	BQL	5.00	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
Tetrachloroethene	BQL	5.00	1	7/28/2005
Toluene	BQL	5.00	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/28/2005
Trichloroethene	BQL	5.00	1	7/28/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/28/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/28/2005
Trichlorofluoromethane	BQL	5.00	1	7/28/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/28/2005
Vinyl chloride	BQL	5.00	1	7/28/2005
m-,p-Xylene	BQL	10.0	1	7/28/2005
o-Xylene	BQL	5.00	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	56.8	114
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	51.3	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/29/2005
Benzene	BQL	5.00	1	7/29/2005
Bromobenzene	BQL	5.00	1	7/29/2005
Bromochloromethane	BQL	5.00	1	7/29/2005
Bromodichloromethane	BQL	5.00	1	7/29/2005
Bromoform	BQL	5.00	1	7/29/2005
Bromomethane	BQL	5.00	1	7/29/2005
2-Butanone	BQL	25.0	1	7/29/2005
n-Butylbenzene	BQL	5.00	1	7/29/2005
sec-Butylbenzene	BQL	5.00	1	7/29/2005
tert-Butylbenzene	BQL	5.00	1	7/29/2005
Carbon disulfide	BQL	5.00	1	7/29/2005
Carbon tetrachloride	BQL	5.00	1	7/29/2005
Chlorobenzene	BQL	5.00	1	7/29/2005
Chloroethane	BQL	5.00	1	7/29/2005
Chloroform	BQL	5.00	1	7/29/2005
Chloromethane	BQL	5.00	1	7/29/2005
2-Chlorotoluene	BQL	5.00	1	7/29/2005
4-Chlorotoluene	BQL	5.00	1	7/29/2005
Dibromochloromethane	BQL	5.00	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/29/2005
Dibromomethane	BQL	5.00	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/29/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/29/2005
1,1-Dichloroethane	BQL	5.00	1	7/29/2005
1,1-Dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloroethane	BQL	5.00	1	7/29/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/29/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,3-Dichloropropane	BQL	5.00	1	7/29/2005
2,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,1-Dichloropropene	BQL	5.00	1	7/29/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
Dichlorodifluoromethane	BQL	5.00	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/29/2005
Ethylbenzene	BQL	5.00	1	7/29/2005
Hexachlorobutadiene	BQL	5.00	1	7/29/2005
2-Hexanone	BQL	5.00	1	7/29/2005
Iodomethane	BQL	5.00	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/29/2005
4-Isopropyltoluene	BQL	5.00	1	7/29/2005
Methylene chloride	BQL	20.0	1	7/29/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/29/2005
Naphthalene	BQL	5.00	1	7/29/2005
n-Propyl benzene	BQL	5.00	1	7/29/2005
Styrene	BQL	5.00	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
Tetrachloroethene	BQL	5.00	1	7/29/2005
Toluene	BQL	5.00	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/29/2005
Trichloroethene	BQL	5.00	1	7/29/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/29/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/29/2005
Trichlorofluoromethane	BQL	5.00	1	7/29/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/29/2005
Vinyl chloride	BQL	5.00	1	7/29/2005
m-,p-Xylene	BQL	10.0	1	7/29/2005
o-Xylene	BQL	5.00	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	55.1	110
1,2-Dichloroethane-d4	50	59.7	119
Toluene-d8	50	51.1	102

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/28/2005
Benzene	BQL	5.00	1	7/28/2005
Bromobenzene	BQL	5.00	1	7/28/2005
Bromochloromethane	BQL	5.00	1	7/28/2005
Bromodichloromethane	BQL	5.00	1	7/28/2005
Bromoform	BQL	5.00	1	7/28/2005
Bromomethane	BQL	5.00	1	7/28/2005
2-Butanone	BQL	25.0	1	7/28/2005
n-Butylbenzene	BQL	5.00	1	7/28/2005
sec-Butylbenzene	BQL	5.00	1	7/28/2005
tert-Butylbenzene	BQL	5.00	1	7/28/2005
Carbon disulfide	BQL	5.00	1	7/28/2005
Carbon tetrachloride	BQL	5.00	1	7/28/2005
Chlorobenzene	BQL	5.00	1	7/28/2005
Chloroethane	BQL	5.00	1	7/28/2005
Chloroform	BQL	5.00	1	7/28/2005
Chloromethane	BQL	5.00	1	7/28/2005
2-Chlorotoluene	BQL	5.00	1	7/28/2005
4-Chlorotoluene	BQL	5.00	1	7/28/2005
Dibromochloromethane	BQL	5.00	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/28/2005
Dibromomethane	BQL	5.00	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/28/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/28/2005
1,1-Dichloroethane	BQL	5.00	1	7/28/2005
1,1-Dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloroethane	BQL	5.00	1	7/28/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/28/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,3-Dichloropropane	BQL	5.00	1	7/28/2005
2,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,1-Dichloropropene	BQL	5.00	1	7/28/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
Dichlorodifluoromethane	BQL	5.00	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/28/2005
Ethylbenzene	BQL	5.00	1	7/28/2005
Hexachlorobutadiene	BQL	5.00	1	7/28/2005
2-Hexanone	BQL	5.00	1	7/28/2005
Iodomethane	BQL	5.00	1	7/28/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/28/2005
4-Isopropyltoluene	BQL	5.00	1	7/28/2005
Methylene chloride	BQL	20.0	1	7/28/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/28/2005
Naphthalene	BQL	5.00	1	7/28/2005
n-Propyl benzene	BQL	5.00	1	7/28/2005
Styrene	BQL	5.00	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
Tetrachloroethene	BQL	5.00	1	7/28/2005
Toluene	BQL	5.00	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/28/2005
Trichloroethene	BQL	5.00	1	7/28/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/28/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/28/2005
Trichlorofluoromethane	BQL	5.00	1	7/28/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/28/2005
Vinyl chloride	BQL	5.00	1	7/28/2005
m-,p-Xylene	BQL	10.0	1	7/28/2005
o-Xylene	BQL	5.00	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	56.8	114
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	51.3	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g161-2081-1a
Batch ID: 3072805

Date Analyzed: 28 Jul 2005 6:30 pm
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	90.4	90.4	74.8	133	0.1	30
chlorobenzene	BQL	100	97.5	97.2	66.3	135	0.3	30
1,1-dichloroethene	BQL	100	106.4	101.3	72.0	135	4.9	30
toluene	BQL	100	97.1	96.7	70.5	138	0.3	30
trichloroethene	BQL	100	108.1	110.8	60.7	152	2.5	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs3072805a
Analyst: JTF
Batch ID: 3072805

Date Analyzed: 28 Jul 2005 9:00 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	100	83.93	83.9	77.6	122
chlorobenzene	100	99.15	99.1	75.3	125
1,1-dichloroethene	100	94.25	94.2	78.5	121
toluene	100	90.64	90.6	75.7	124
trichloroethene	100	97.25	97.2	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: _____

VO39.072303.1

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/29/2005
Benzene	BQL	5.00	1	7/29/2005
Bromobenzene	BQL	5.00	1	7/29/2005
Bromochloromethane	BQL	5.00	1	7/29/2005
Bromodichloromethane	BQL	5.00	1	7/29/2005
Bromoform	BQL	5.00	1	7/29/2005
Bromomethane	BQL	5.00	1	7/29/2005
2-Butanone	BQL	25.0	1	7/29/2005
n-Butylbenzene	BQL	5.00	1	7/29/2005
sec-Butylbenzene	BQL	5.00	1	7/29/2005
tert-Butylbenzene	BQL	5.00	1	7/29/2005
Carbon disulfide	BQL	5.00	1	7/29/2005
Carbon tetrachloride	BQL	5.00	1	7/29/2005
Chlorobenzene	BQL	5.00	1	7/29/2005
Chloroethane	BQL	5.00	1	7/29/2005
Chloroform	BQL	5.00	1	7/29/2005
Chloromethane	BQL	5.00	1	7/29/2005
2-Chlorotoluene	BQL	5.00	1	7/29/2005
4-Chlorotoluene	BQL	5.00	1	7/29/2005
Dibromochloromethane	BQL	5.00	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/29/2005
Dibromomethane	BQL	5.00	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/29/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/29/2005
1,1-Dichloroethane	BQL	5.00	1	7/29/2005
1,1-Dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloroethane	BQL	5.00	1	7/29/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/29/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,3-Dichloropropane	BQL	5.00	1	7/29/2005
2,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,1-Dichloropropene	BQL	5.00	1	7/29/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
Dichlorodifluoromethane	BQL	5.00	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/29/2005
Ethylbenzene	BQL	5.00	1	7/29/2005
Hexachlorobutadiene	BQL	5.00	1	7/29/2005
2-Hexanone	BQL	5.00	1	7/29/2005
Iodomethane	BQL	5.00	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/29/2005
4-Isopropyltoluene	BQL	5.00	1	7/29/2005
Methylene chloride	BQL	20.0	1	7/29/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/29/2005
Naphthalene	BQL	5.00	1	7/29/2005
n-Propyl benzene	BQL	5.00	1	7/29/2005
Styrene	BQL	5.00	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
Tetrachloroethene	BQL	5.00	1	7/29/2005
Toluene	BQL	5.00	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/29/2005
Trichloroethene	BQL	5.00	1	7/29/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/29/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/29/2005
Trichlorofluoromethane	BQL	5.00	1	7/29/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/29/2005
Vinyl chloride	BQL	5.00	1	7/29/2005
m-,p-Xylene	BQL	10.0	1	7/29/2005
o-Xylene	BQL	5.00	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	55.1	110
1,2-Dichloroethane-d4	50	59.7	119
Toluene-d8	50	51.1	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RW

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g161-2081-4a
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 4:54 pm
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	89.1	86.8	74.8	133	2.7	30
chlorobenzene	BQL	100	112.1	108.9	66.3	135	2.9	30
1,1-dichloroethene	BQL	100	95.8	94.3	72.0	135	1.6	30
toluene	BQL	100	94.1	93.1	70.5	138	1.1	30
trichloroethene	BQL	100	95.9	95.2	60.7	152	0.8	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: PNV

VO41.072303.1

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs3072905a
Analyst: JTF
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 9:38 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	100	89.00	89.0	77.6	122
chlorobenzene	100	106.55	106.5	75.3	125
1,1-dichloroethene	100	93.04	93.0	78.5	121
toluene	100	96.48	96.5	75.7	124
trichloroethene	100	99.00	99.0	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: mv

Results for LCS/LCSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: lcs3072905b
Batch ID: 3072905

Date Analyzed: 29 Jul 2005 9:07 am
Matrix: Soil
Analyzed By: JTF

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	100	87.4	89.0	77.6	122	1.8	30
chlorobenzene	100	109.4	106.5	75.3	125	2.6	30
1,1-dichloroethene	100	90.3	93.0	78.5	121	3.0	30
toluene	100	97.2	96.5	75.7	124	0.8	30
trichloroethene	100	97.3	99.0	60.8	139	1.7	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Paradigm Analytical Laboratories, INC.

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	D1-5	106	117	165		0
02	G161-2081-1B MS	103	121	134		0
03	G161-2081-1B MSD	103	119	126		0
04	LCS3072805A	102	118	106		0
05	VBLK3072805C	103	114	128		0
06	D1-15	107	115	169		0
07	D1-25	101	117	120		0
08	G161-2081-4A MS	98.0	113	78.0		0
09	G161-2081-4A MSD	100	119	93.0		0
10	LCS3072905A	102	118	97.0		0
11	VBLK3072905A	102	110	119		0
12	D2-1	103	122	124		0
13	D2-5	104	111	140		0
14	D3-1	103	119	147		0
15	D3-5	101	132	139		0
16	D3-15	104	114	148		0
17	DUP-4	107	115	176		0
18	TRIP BLANK	107	113	178		0
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(59-144)
SMC2 (BFB) = Bromofluorobenzene	(49-151)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(38-170)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-1A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	100	180	180	100	169	169	6.19	30	6.81-355
acrolein	BQL	1000	962	96.2	1000	1040	104	7.46	30	NA-6510
acrylonitrile	BQL	1000	810	81.0	1000	798	79.8	1.54	30	NA-5670
benzene	BQL	100	90.1	90.1	100	90.2	90.2	0.0555	30	74.8-133
bromobenzene	BQL	100	116	116	100	117	117	1.16	30	66.1-140
bromochloromethane	BQL	100	112	112	100	92.9	92.9	18.6	30	85.1-136
bromodichloromethane	BQL	100	126	126	100	119	119	5.16	30	77.4-140
bromoform	BQL	100	124	124	100	119	119	3.80	30	74.7-161
bromomethane	BQL	100	182	182 *	100	162	162 *	11.5	30	30.4-127
2-butanone	BQL	100	123	123	100	112	112	9.18	30	40.9-256
n-butylbenzene	BQL	100	116	116	100	120	120	2.98	30	41.2-147
sec-butylbenzene	BQL	100	106	106	100	113	113	6.20	30	56.7-138
tert-butylbenzene	BQL	100	114	114	100	119	119	4.59	30	60.5-142
Carbon disulfide	BQL	100	103	103	100	104	104	1.39	30	64.3-145
carbon tetrachloride	BQL	100	144	144 *	100	134	134	6.51	30	64.2-142
chlorobenzene	BQL	100	97.4	97.4	100	97.1	97.1	0.257	30	66.3-135
chloroethane	BQL	100	154	154	100	158	158	2.29	30	20.7-182
2-chloroethyl vinyl ether	BQL	100	82.8	82.8 *	100	11.6	11.6 *	151 *	30	0.00-0.00
chloroform	BQL	100	124	124	100	118	118	4.68	30	71.1-143
chloromethane	BQL	100	114	114	100	110	110	4.07	30	69.1-138
2-chlorotoluene	BQL	100	113	113	100	114	114	0.624	30	59.8-144
4-chlorotoluene	BQL	100	115	115	100	117	117	2.05	30	59.0-141
dibromochloromethane	BQL	100	138	138	100	135	135	2.19	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	500	640	128	500	620	124	3.17	30	43.4-229
1,2-dibromomethane	BQL	100	99.0	99.0	100	95.3	95.3	3.75	30	78.3-148
dibromomethane	BQL	100	105	105	100	90.8	90.8	14.2	30	80.0-150
1,2-dichlorobenzene	BQL	100	119	119	100	121	121	1.79	30	57.5-148
1,3-dichlorobenzene	BQL	100	120	120	100	124	124	2.95	30	55.0-145
1,4-dichlorobenzene	BQL	100	120	120	100	124	124	2.95	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	500	579	116	500	538	108	7.35	30	48.9-211
dichlorodifluoromethane	BQL	100	158	158 *	100	160	160 *	1.01	30	81.6-130
1,1-dichloroethane	BQL	100	105	105	100	102	102	2.75	30	71.6-139
1,2-dichloroethane	BQL	100	131	131	100	120	120	8.26	30	72.9-146
1,1-dichloroethene	BQL	100	106	106	100	101	101	4.91	30	72.0-135
cis-1,2-dichloroethene	BQL	100	94.3	94.3	100	91.3	91.3	3.21	30	76.9-134
trans-1,2-dichloroethene	BQL	100	97.5	97.5	100	98.1	98.1	0.665	30	72.0-135
1,2-dichloropropane	BQL	100	87.5	87.5	100	85.6	85.6	2.20	30	76.1-136
1,3-dichloropropane	BQL	100	101	101	100	98.4	98.4	2.42	30	83.2-137
2,2-dichloropropane	BQL	100	140	140	100	118	118	16.9	30	58.0-150
1,1-dichloropropene	BQL	100	114	114	100	115	115	0.926	30	68.5-137
cis-1,3-dichloropropene	BQL	100	107	107	100	101	101	5.44	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 11 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-1A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	116	116	100	108	108	7.20	30	72.5-152
Diisopropyl ether	BQL	100	106	106	100	104	104	1.32	30	59.9-147
ethylbenzene	BQL	100	111	111	100	111	111	0.0903	30	68.5-135
hexachlorobutadiene	BQL	100	161	161	100	177	177 *	9.37	30	12.1-169
2-hexanone	BQL	100	134	134	100	123	123	8.30	30	39.9-238
Iodomethane	BQL	100	139	139	100	103	103	29.6	30	39.5-177
isopropylbenzene	BQL	100	108	108	100	110	110	2.14	30	63.7-135
4-isopropyltoluene	BQL	100	114	114	100	121	121	5.66	30	53.2-142
Methyl-tert-butyl ether	BQL	100	116	116	100	111	111	5.00	30	73.3-155
methylene chloride	BQL	100	108	108	100	104	104	3.60	30	54.3-156
4-methyl-2-pentanone	BQL	100	108	108	100	102	102	6.07	30	47.2-227
naphthalene	BQL	100	136	136	100	136	136	0.330	30	14.4-218
n-propyl benzene	BQL	100	114	114	100	117	117	2.23	30	61.7-134
styrene	BQL	100	95.4	95.4	100	95.6	95.6	0.283	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	100	141	141 *	100	140	140 *	0.966	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	100	104	104	100	96.4	96.4	7.23	30	68.8-175
tetrachloroethene	BQL	100	112	112	100	117	117	4.21	30	61.6-137
toluene	BQL	100	96.8	96.8	100	96.5	96.5	0.342	30	70.5-138
1,2,3-trichlorobenzene	BQL	100	114	114	100	119	119	4.76	30	13.2-190
1,2,4-trichlorobenzene	BQL	100	114	114	100	120	120	5.55	30	9.93-187
1,1,1-trichloroethane	BQL	100	140	140	100	135	135	3.46	30	66.9-142
1,1,2-trichloroethane	BQL	100	95.0	95.0	100	90.3	90.3	5.06	30	84.9-139
trichloroethene	BQL	100	108	108	100	111	111	2.49	30	60.7-152
trichlorofluoromethane	BQL	100	163	163 *	100	155	155	4.72	30	55.0-162
1,2,3-trichloropropane	BQL	100	107	107	100	102	102	5.57	30	55.1-197
1,2,4-trimethylbenzene	BQL	100	111	111	100	113	113	1.98	30	61.1-141
1,3,5-trimethylbenzene	BQL	100	111	111	100	114	114	2.22	30	61.8-138
Vinyl acetate	BQL	250	226	90.2	250	155	62.0	37.0 *	30	NA-NA
vinyl chloride	BQL	100	106	106	100	104	104	1.56	30	80.9-129
m/p-xylene	BQL	200	191	95.4	200	193	96.6	1.30	30	68.0-135
o-xylene	BQL	100	95.6	95.6	100	96.8	96.8	1.31	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 11 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-4A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	100	106	106	100	118	118	10.8	30	6.81-355
acrolein	BQL	1000	658	65.8	1000	784	78.4	17.4	30	NA-6510
acrylonitrile	BQL	1000	693	69.3	1000	768	76.8	10.3	30	NA-5670
benzene	BQL	100	88.9	88.9	100	86.6	86.6	2.67	30	74.8-133
bromobenzene	BQL	100	133	133	100	131	131	1.63	30	66.1-140
bromochloromethane	BQL	100	108	108	100	109	109	0.294	30	85.1-136
bromodichloromethane	BQL	100	92.1	92.1	100	96.1	96.1	4.21	30	77.4-140
bromoform	BQL	100	121	121	100	127	127	4.66	30	74.7-161
bromomethane	BQL	100	79.7	79.7	100	98.7	98.7	21.3	30	30.4-127
2-butanone	BQL	100	93.5	93.5	100	97.7	97.7	4.34	30	40.9-256
n-butylbenzene	BQL	100	96.1	96.1	100	97.2	97.2	1.20	30	41.2-147
sec-butylbenzene	BQL	100	87.3	87.3	100	93.3	93.3	6.67	30	56.7-138
tert-butylbenzene	BQL	100	100	100	100	99.7	99.7	0.430	30	60.5-142
Carbon disulfide	BQL	100	90.2	90.2	100	89.2	89.2	1.04	30	64.3-145
carbon tetrachloride	BQL	100	99.3	99.3	100	104	104	5.07	30	64.2-142
chlorobenzene	BQL	100	112	112	100	109	109	2.94	30	66.3-135
chloroethane	BQL	100	114	114	100	113	113	1.08	30	20.7-182
2-chloroethyl vinyl ether	BQL	100	71.5	71.5 *	100	80.8	80.8 *	12.3	30	0.00-0.00
chloroform	BQL	100	96.0	96.0	100	97.9	97.9	1.97	30	71.1-143
chloromethane	BQL	100	91.3	91.3	100	103	103	11.9	30	69.1-138
2-chlorotoluene	BQL	100	103	103	100	103	103	0.0876	30	59.8-144
4-chlorotoluene	BQL	100	104	104	100	106	106	2.01	30	59.0-141
dibromochloromethane	BQL	100	130	130	100	137	137	5.36	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	500	400	80.1	500	439	87.8	9.23	30	43.4-229
1,2-dibromomethane	BQL	100	100	100	100	104	104	4.17	30	78.3-148
dibromomethane	BQL	100	84.0	84.0	100	89.5	89.5	6.37	30	80.0-150
1,2-dichlorobenzene	BQL	100	110	110	100	111	111	1.10	30	57.5-148
1,3-dichlorobenzene	BQL	100	113	113	100	114	114	0.273	30	55.0-145
1,4-dichlorobenzene	BQL	100	113	113	100	114	114	0.273	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	500	429	85.9	500	468	93.7	8.72	30	48.9-211
dichlorodifluoromethane	BQL	100	104	104	100	121	121	14.8	30	81.6-130
1,1-dichloroethane	BQL	100	87.8	87.8	100	86.3	86.3	1.76	30	71.6-139
1,2-dichloroethane	BQL	100	76.8	76.8	100	84.4	84.4	9.35	30	72.9-146
1,1-dichloroethene	BQL	100	95.8	95.8	100	94.3	94.3	1.59	30	72.0-135
cis-1,2-dichloroethene	BQL	100	94.4	94.4	100	91.3	91.3	3.28	30	76.9-134
trans-1,2-dichloroethene	BQL	100	100	100	100	95.0	95.0	5.63	30	72.0-135
1,2-dichloropropane	BQL	100	79.8	79.8	100	79.3	79.3	0.704	30	76.1-136
1,3-dichloropropane	BQL	100	100	100	100	102	102	1.39	30	83.2-137
2,2-dichloropropane	BQL	100	97.2	97.2	100	99.9	99.9	2.73	30	58.0-150
1,1-dichloropropene	BQL	100	93.9	93.9	100	94.1	94.1	0.202	30	68.5-137
cis-1,3-dichloropropene	BQL	100	87.1	87.1	100	89.4	89.4	2.62	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 5 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-4A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	85.5	85.5	100	91.5	91.5	6.74	30	72.5-152
Diisopropyl ether	BQL	100	93.6	93.6	100	91.6	91.6	2.17	30	59.9-147
ethylbenzene	BQL	100	92.8	92.8	100	99.0	99.0	6.44	30	68.5-135
hexachlorobutadiene	BQL	100	142	142	100	141	141	0.905	30	12.1-169
2-hexanone	BQL	100	115	115	100	117	117	1.55	30	39.9-238
Iodomethane	BQL	100	123	123	100	123	123	0.196	30	39.5-177
isopropylbenzene	BQL	100	92.9	92.9	100	97.6	97.6	4.89	30	63.7-135
4-isopropyltoluene	BQL	100	100	100	100	102	102	1.55	30	53.2-142
Methyl-tert-butyl ether	BQL	100	92.1	92.1	100	94.7	94.7	2.82	30	73.3-155
methylene chloride	BQL	100	94.0	94.0	100	95.0	95.0	1.04	30	54.3-156
4-methyl-2-pentanone	BQL	100	80.0	80.0	100	86.1	86.1	7.34	30	47.2-227
naphthalene	BQL	100	119	119	100	125	125	4.99	30	14.4-218
n-propyl benzene	BQL	100	83.7	83.7	100	91.2	91.2	8.63	30	61.7-134
styrene	BQL	100	89.4	89.4	100	90.9	90.9	1.74	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	100	142	142 *	100	141	141 *	0.452	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	100	102	102	100	106	106	4.07	30	68.8-175
tetrachloroethene	BQL	100	142	142 *	100	136	136	4.44	30	61.6-137
toluene	BQL	100	94.0	94.0	100	92.9	92.9	1.07	30	70.5-138
1,2,3-trichlorobenzene	BQL	100	109	109	100	105	105	3.94	30	13.2-190
1,2,4-trichlorobenzene	BQL	100	113	113	100	108	108	4.26	30	9.93-187
1,1,1-trichloroethane	BQL	100	99.3	99.3	100	103	103	3.86	30	66.9-142
1,1,2-trichloroethane	BQL	100	100	100	100	103	103	3.02	30	84.9-139
trichloroethene	BQL	100	95.9	95.9	100	95.2	95.2	0.764	30	60.7-152
trichlorofluoromethane	BQL	100	98.4	98.4	100	112	112	12.9	30	55.0-162
1,2,3-trichloropropane	BQL	100	103	103	100	101	101	1.43	30	55.1-197
1,2,4-trimethylbenzene	BQL	100	94.9	94.9	100	95.3	95.3	0.484	30	61.1-141
1,3,5-trimethylbenzene	BQL	100	94.6	94.6	100	96.2	96.2	1.64	30	61.8-138
Vinyl acetate	BQL	250	220	88.0	250	223	89.2	1.38	30	NA-NA
vinyl chloride	BQL	100	85.1	85.1	100	95.7	95.7	11.7	30	80.9-129
m/p-xylene	BQL	200	186	93.2	200	183	91.7	1.57	30	68.0-135
o-xylene	BQL	100	91.7	91.7	100	91.7	91.7	0.0545	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 5 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3072805C

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0728307.D Lab Sample ID: VBLK3072805C

Date Analyzed: 07/28/05 Time Analyzed: 11:06

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	G161-2081-10A	0728308.D	07/28 11:37
02	D1-5	G161-2081-1A	0728309.D	07/28 12:08
03	D1-5	G161-2081-1A	0728309.D	07/28 12:08
04	D1-15	G161-2081-2A	0728310.D	07/28 12:39
05	D3-1	G161-2081-6A	0728314.D	07/28 14:50
06	D3-5	G161-2081-7A	0728315.D	07/28 15:21
07	D3-15	G161-2081-8A	0728316.D	07/28 15:53
08	DUP-4	G161-2081-9A	0728317.D	07/28 16:24
09	G161-2081-1B MS	G161-2081-1B MS	0728321.D	07/28 18:30
10	G161-2081-1B MSD	G161-2081-1B MSD	0728322.D	07/28 19:01
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COMMENTS:

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3072905A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0729307.D Lab Sample ID: VBLK3072905A

Date Analyzed: 07/29/05 Time Analyzed: 11:11

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	D1-25	G161-2081-3A	0729308.D	07/29 11:42
02	D2-1	G161-2081-4A	0729309.D	07/29 12:13
03	D2-1	G161-2081-4A	0729309.D	07/29 12:13
04	D2-5	G161-2081-5A	0729310.D	07/29 12:45
05	G161-2081-4A MS	G161-2081-4A MS	0729318.D	07/29 16:54
06	G161-2081-4A MSD	G161-2081-4A MSD	0729319.D	07/29 17:26
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0728301.D BFB Injection Date: 07/28/05

Instrument ID: MSD3 BFB Injection Time: 07:59

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	20.9	Y
75	30.0 - 60.0% of mass 95	55.5	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	7.0	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	60.9	Y
175	5.0 - 9.0% of mass 174	6.8	Y
176	95.0 - 101.0% of mass 174	96.4	Y
177	5.0 - 9.0% of mass 176	6.4	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCHK100	QCHK100	0728302.D	07/28/05	08:29
02	LCS3072805A	LCS3072805A	0728303.D	07/28/05	09:00
03	VBLK3072805C	VBLK3072805C	0728307.D	07/28/05	11:06
04	TRIP BLANK	G161-2081-10A	0728308.D	07/28/05	11:37
05	D1-5	G161-2081-1A	0728309.D	07/28/05	12:08
06	D1-15	G161-2081-2A	0728310.D	07/28/05	12:39
07	D3-1	G161-2081-6A	0728314.D	07/28/05	14:50
08	D3-5	G161-2081-7A	0728315.D	07/28/05	15:21
09	D3-15	G161-2081-8A	0728316.D	07/28/05	15:53
10	DUP-4	G161-2081-9A	0728317.D	07/28/05	16:24
11	G161-2081-1B MS	G161-2081-1B MS	0728321.D	07/28/05	18:30
12	G161-2081-1B MSD	G161-2081-1B MSD	0728322.D	07/28/05	19:01
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0714304.D BFB Injection Date: 07/14/05

Instrument ID: MSD3 BFB Injection Time: 13:46

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	20.8	Y
75	30.0 - 60.0% of mass 95	51.8	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	8.0	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	52.6	Y
175	5.0 - 9.0% of mass 174	6.0	Y
176	95.0 - 101.0% of mass 174	101.0	Y
177	5.0 - 9.0% of mass 176	6.5	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD10	VSTD10	0714306.D	07/14/05	12:13
02	VSTD20	VSTD20	0714307.D	07/14/05	12:44
03	VSTD20	VSTD20	0714308.D	07/14/05	15:51
04	VSTD50	VSTD50	0714309.D	07/14/05	16:23
05	VSTD100	VSTD100	0714310.D	07/14/05	16:54
06	VSTD200	VSTD200	0714311.D	07/14/05	17:25
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0729301.D BFB Injection Date: 07/29/05

Instrument ID: MSD3 BFB Injection Time: 08:05

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	18.4	Y
75	30.0 - 60.0% of mass 95	49.2	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.5	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	65.6	Y
175	5.0 - 9.0% of mass 174	7.2	Y
176	95.0 - 101.0% of mass 174	99.0	Y
177	5.0 - 9.0% of mass 176	6.6	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCHK100	QCHK100	0729302.D	07/29/05	08:36
02	LCS3072905A	LCS3072905A	0729303.D	07/29/05	09:07
03	VBLK3072905A	VBLK3072905A	0729307.D	07/29/05	11:11
04	D1-25	G161-2081-3A	0729308.D	07/29/05	11:42
05	D2-1	G161-2081-4A	0729309.D	07/29/05	12:13
06	D2-1	G161-2081-4A	0729309.D	07/29/05	12:13
07	D2-5	G161-2081-5A	0729310.D	07/29/05	12:45
08	G161-2081-4A MS	G161-2081-4A MS	0729318.D	07/29/05	16:54
09	G161-2081-4A MSD	G161-2081-4A MSD	0729319.D	07/29/05	17:26
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Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD3 Calibration Date(s): 07/14/05

Heated Purge: (Y/N) Y Calibration Times: 17:25

GC Column: DB-624 ID: 0.2 (mm)

LAB FILE ID: RRF5.0 = 0714306.D RRF10.0 = 0714307.D

RRF20.0 = 0714308.D RRF50.0 = 0714309.D RRF100.0 = 0714310.D RRF200.0 = 0714311.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	RRF 200.0	ICAL RRF	% RSD
dichlorodifluoromethane	0.834	0.952	0.869	1.01	1.04	1.02	0.954	8.89
chloromethane	0.719	0.805	0.747	0.849	0.826	0.832	0.796	6.53
vinyl chloride	0.776	0.919	0.863	0.997	1.01	1.01	0.929	10.2
bromomethane	0.399	0.410	0.357	0.315	0.260	0.261	0.333	19.8
chloroethane	0.387	0.471	0.433	0.297	0.277		0.373	22.6
trichlorofluoromethane	0.781	0.962	0.903	1.05	1.05	0.956	0.951	10.8
acrolein	0.02	0.024	0.021	0.024	0.025	0.023	0.023	9.47
1,1-dichloroethene	0.556	0.564	0.547	0.495	0.510	0.492	0.527	6.04
acetone	0.370	0.409	0.339	0.304	0.311	0.257	0.332	16.1
methylene chloride	0.403	0.420	0.411	0.387	0.398	0.383	0.400	3.52
trans-1,2-dichloroethene	0.595	0.545	0.573	0.542	0.549	0.530	0.556	4.29
acrylonitrile	0.051	0.075	0.067	0.078	0.085	0.078	0.072	16.6
1,1-dichloroethane	1.09	1.12	1.14	1.08	1.10	1.07	1.10	2.42
2,2-dichloropropane	1.07	1.08	1.06	1.01	0.996	0.961	1.03	4.76
cis-1,2-dichloroethene	0.559	0.567	0.553	0.507	0.510	0.492	0.531	6.02
2-butanone	0.395	0.434	0.407	0.355	0.394	0.335	0.387	9.30
bromochloromethane	0.131	0.131	0.136	0.133	0.136	0.129	0.133	2.15
chloroform	0.940	0.941	0.974	0.913	0.945	0.916	0.938	2.38
1,1,1-trichloroethane	0.990	1.00	1.00	0.962	0.990	0.960	0.984	1.93
carbon tetrachloride	0.749	0.789	0.819	0.784	0.825	0.805	0.795	3.51
1,1-dichloropropene	1.00	0.969	0.984	0.920	0.952	0.924	0.959	3.47
1,2-dichloroethane-d4	0.242	0.262	0.241	0.239	0.253	0.237	0.246	3.96
benzene	2.84	2.60	2.51	2.35	2.38	2.21	2.48	8.89
1,2-dichloroethane	0.539	0.581	0.578	0.533	0.549	0.516	0.549	4.66
trichloroethene	0.615	0.642	0.629	0.598	0.612	0.600	0.616	2.74
1,2-dichloropropane	0.551	0.539	0.535	0.514	0.523	0.506	0.528	3.17
dibromomethane	0.164	0.192	0.185	0.173	0.181	0.167	0.177	6.07
bromodichloromethane	0.505	0.573	0.581	0.558	0.565	0.545	0.554	4.94
2-chloroethyl vinyl ether	0.148	0.213	0.201	0.240	0.267	0.257	0.221	19.8
cis-1,3-dichloropropene	0.630	0.684	0.678	0.637	0.663	0.634	0.655	3.61
4-methyl-2-pentanone	0.532	0.616	0.594	0.570	0.617	0.550	0.580	6.09
toluene-d8	0.713	0.722	0.716	0.707	0.708	0.696	0.711	1.26
toluene	1.39	1.39	1.40	1.30	1.36	1.33	1.36	2.86
Iodomethane	0.442	0.550	0.575	0.617	0.602	0.568	0.559	11.1
trans-1,3-dichloropropene	0.473	0.504	0.537	0.479	0.509	0.492	0.499	4.67
Vinyl acetate	0.039	0.046	0.047	0.041	0.048	0.039	0.043	9.60
Carbon disulfide	1.96	1.94	1.98	1.91	1.95	1.91	1.94	1.46
1,1,2-trichloroethane	1.90	2.00	2.11	1.93	1.96	1.90	1.97	4.11
tetrachloroethene	4.60	4.58	4.84	4.36	4.34	4.34	4.51	4.48
1,3-dichloropropane	4.36	4.59	4.62	4.38	4.41	4.21	4.43	3.48

Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD3 Calibration Date(s): 07/14/05

Heated Purge: (Y/N) Y Calibration Times: 17:25

GC Column: DB-624 ID: 0.2 (mm)

LAB FILE ID: RRF5.0 = 0714306.D RRF10.0 = 0714307.D

RRF20.0 = 0714308.D RRF50.0 = 0714309.D RRF100.0 = 0714310.D RRF200.0 = 0714311.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	RRF 200.0	ICAL RRF	% RSD
2-hexanone	4.80	4.73	4.75	4.28	4.30	3.85	4.45	8.48
dibromochloromethane	2.08	2.25	2.31	2.18	2.18	2.04	2.17	4.64
1,2-dibromoethane	1.95	2.01	2.16	1.94	2.00	1.92	2.00	4.44
chlorobenzene	1.10	1.09	1.13	1.03	1.01	0.994	1.06	5.32
1,1,1,2-tetrachloroethane	2.74	2.79	2.92	2.67	2.64	2.56	2.72	4.61
bromoform	1.02	1.15	1.22	1.14	1.24	1.16	1.16	6.73
4-bromofluorobenzene	2.79	2.78	2.88	2.68	2.74	2.58	2.74	3.75
bromobenzene	3.23	2.98	3.26	2.91	2.94	2.81	3.02	6.04
1,1,2,2-tetrachloroethane	1.94	2.40	2.36	2.18	2.28	2.07	2.20	8.03
1,2,3-trichloropropane	2.54	2.80	3.23	2.87	3.06	3.04	2.92	8.24
ethylbenzene	4.50	4.48	4.44	4.29	4.44	3.61	4.29	8.00
m/p-xylene	1.48	1.51	1.51	1.43	1.44	1.43	1.47	2.61
styrene	1.74	1.83	1.81	1.72	1.79	1.76	1.77	2.42
o-xylene	1.29	1.31	1.33	1.26	1.28	1.26	1.29	2.05
isopropylbenzene	4.10	4.11	4.10	3.93	4.14	3.43	3.97	6.91
n-propyl benzene	5.30	5.22	5.36	4.93	5.19	3.69	4.95	12.8
2-chlorotoluene	0.667	0.681	0.688	0.623	0.625	0.593	0.646	5.84
4-chlorotoluene	0.646	0.665	0.671	0.580	0.593	0.555	0.618	7.83
1,3,5-trimethylbenzene	3.05	3.07	3.15	2.90	3.00	2.82	3.00	3.99
tert-butylbenzene	2.49	2.52	2.62	2.38	2.57	2.50	2.51	3.24
1,2,4-trimethylbenzene	2.84	2.85	2.97	2.62	2.80	2.68	2.79	4.56
sec-butylbenzene	4.39	4.52	4.64	4.21	4.56	3.47	4.30	10.0
1,3-dichlorobenzene	1.04	1.08	1.14	1.01	1.05	0.995	1.05	5.14
4-isopropyltoluene	3.10	3.12	3.27	2.86	3.10	2.81	3.04	5.75
1,4-dichlorobenzene	1.04	1.08	1.14	1.01	1.05	0.995	1.05	5.14
1,2-dichlorobenzene	0.833	0.871	0.889	0.776	0.817	0.757	0.824	6.28
n-butylbenzene	3.63	3.49	3.61	3.16	3.47	3.00	3.39	7.54
1,2-dibromo-3-chloropropane	0.073	0.078	0.08	0.066	0.075	0.067	0.073	7.69
1,2,4-trichlorobenzene	0.499	0.500	0.513	0.387	0.454	0.416	0.462	11.2
hexachlorobutadiene	0.155	0.342	0.363	0.258	0.329	0.306	0.292	26.1
naphthalene	0.714	0.644	0.626	0.462	0.550	0.525	0.587	15.5
trans-1,4-Dichloro-2-butene	0.051	0.055	0.057	0.057	0.063	0.059	0.057	7.16
1,2,3-trichlorobenzene	0.384	0.383	0.398	0.287	0.347	0.323	0.354	12.1
MTBE	1.50	1.64	1.62	1.59	1.66	1.59	1.60	3.45
DIPE	3.09	3.17	3.24	3.15	3.02	3.01	3.11	2.98

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No : SDG No.:

Instrument ID: MSD3 Calibration Date: 07/28/05 Time: 8:29

Lab File ID: 0728302.D Init. Calib. Date: 07/14/05

EPA Sample No.: QCHK100 Init. Calib. Time: 17:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,1,1,2-tetrachloroethane	2.72	3.690		-35.6	
1,1,1-trichloroethane	0.984	1.132		-15.0	
1,1,2,2-tetrachloroethane	2.20	2.274	0.30	-3.1	
1,1,2-trichloroethane	1.97	1.832		6.9	
1,1-dichloroethane	1.10	1.017	0.10	7.5	
1,1-dichloroethene	0.527	0.493		6.5	20.0
1,1-dichloropropene	0.959	0.950		0.9	
1,2,3-trichlorobenzene	0.354	0.309		12.7	
1,2,3-trichloropropane	2.92	3.064		-4.8	
1,2,4-trichlorobenzene	0.462	0.429		7.1	
1,2,4-trimethylbenzene	2.79	2.636		5.7	
1,2-dibromo-3-chloropropane	0.073	0.071		2.7	
1,2-dibromoethane	2.00	1.941		2.7	
1,2-dichlorobenzene	0.824	0.877		-6.4	
1,2-dichloroethane	0.549	0.577		-5.1	
1,2-dichloropropane	0.528	0.436		17.4	20.0
1,3,5-trimethylbenzene	3.00	2.841		5.3	
1,3-dichlorobenzene	1.05	1.145		-8.7	
1,3-dichloropropane	4.43	4.334		2.1	
1,4-dichlorobenzene	1.05	1.145		-8.7	
2,2-dichloropropane	1.03	1.210		-17.5	
2-butanone	0.387	0.441		-14.0	
2-chloroethyl vinyl ether	0.221	0.233		-5.4	
2-chlorotoluene	0.646	0.668		-3.4	
2-hexanone	4.45	5.557		-24.9	
4-chlorotoluene	0.618	0.644		-4.2	
4-isopropyltoluene	3.04	2.941		3.4	
4-methyl-2-pentanone	0.580	0.601		-3.6	
acetone	0.332	0.402		-21.1	
acrolein	0.023	0.020		13.0	
acrylonitrile	0.072	0.060		16.7	
benzene	2.48	2.119		14.6	
bromobenzene	3.02	3.588		-18.9	
bromochloromethane	0.133	0.144		-8.3	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.554	0.622		-12.3	
bromoform	1.16	1.442	0.10	-24.7	
bromomethane	0.333	0.341		-2.4	
Carbon disulfide	1.94	1.784		8.2	
carbon tetrachloride	0.795	0.953		-19.9	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD3 Calibration Date: 07/28/05 Time: 8:29

Lab File ID: 0728302.D Init. Calib. Date: 07/14/05

EPA Sample No.: QCHK100 Init. Calib. Time: 17:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	10.591	10.200	0.30	3.7	
chloroethane	0.373	0.336		9.9	
chloroform	0.938	1.008		-7.5	20.0
chloromethane	0.796	0.765	0.10	3.9	
cis-1,2-dichloroethene	0.531	0.484		8.9	
cis-1,3-dichloropropene	0.655	0.645		1.5	
dibromochloromethane	2.171	2.903		-33.7	
dibromomethane	0.177	0.176		0.6	
dichlorodifluoromethane	0.954	1.220		-27.9	
DIPE	3.114	2.901		6.8	
ethylbenzene	4.293	4.192		2.4	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.292	0.372		-27.4	
Iodomethane	0.559	0.717		-28.3	
isopropylbenzene	3.968	3.765		5.1	
m/p-xylene	1.467	1.273		13.2	
methylene chloride	0.400	0.374		6.5	
MTBE	1.601	1.642		-2.6	
n-butylbenzene	3.393	3.128		7.8	
n-propyl benzene	4.949	4.862		1.8	
naphthalene	0.587	0.560		4.6	
o-xylene	1.289	1.126		12.6	
sec-butylbenzene	4.301	3.950		8.2	
styrene	1.773	1.564		11.8	
tert-butylbenzene	2.514	2.476		1.5	
tetrachloroethene	4.510	5.183		-14.9	
toluene	1.363	1.259		7.6	20.0
trans-1,2-dichloroethene	0.556	0.520		6.5	
trans-1,3-dichloropropene	0.499	0.523		-4.8	
trans-1,4-Dichloro-2-butene	0.057	0.058		-1.8	
trichloroethene	0.616	0.607		1.5	
trichlorofluoromethane	0.951	1.164		-22.4	
Vinyl acetate	0.043	0.041		4.7	
vinyl chloride	0.929	0.810		12.8	20.0
1,2-dichloroethane-d4	0.246	0.277		-12.6	
4-bromofluorobenzene	2.74	3.317		-20.9	
toluene-d8	0.711	0.740		-4.1	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD3 Calibration Date: 07/29/05 Time: 8:36

Lab File ID: 0729302.D Init. Calib. Date: 07/14/05

EPA Sample No.: QCHK100 Init. Calib. Time: 17:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,1,1,2-tetrachloroethane	2.72	4.033		-48.2	
1,1,1-trichloroethane	0.984	1.097		-11.5	
1,1,2,2-tetrachloroethane	2.20	2.722	0.30	-23.4	
1,1,2-trichloroethane	1.97	2.236		-13.7	
1,1-dichloroethane	1.10	1.045	0.10	5.0	
1,1-dichloroethene	0.527	0.517		1.9	20.0
1,1-dichloropropene	0.959	0.974		-1.6	
1,2,3-trichlorobenzene	0.354	0.427		-20.6	
1,2,3-trichloropropane	2.92	2.001		31.6	
1,2,4-trichlorobenzene	0.462	0.560		-21.2	
1,2,4-trimethylbenzene	2.79	2.868		-2.6	
1,2-dibromo-3-chloropropane	0.073	0.081		-11.0	
1,2-dibromoethane	2.00	2.318		-16.2	
1,2-dichlorobenzene	0.824	1.006		-22.1	
1,2-dichloroethane	0.549	0.557		-1.5	
1,2-dichloropropane	0.528	0.473		10.4	20.0
1,3,5-trimethylbenzene	3.00	3.080		-2.7	
1,3-dichlorobenzene	1.05	1.301		-23.6	
1,3-dichloropropane	4.43	5.019		-13.4	
1,4-dichlorobenzene	1.05	1.301		-23.6	
2,2-dichloropropane	1.03	1.143		-11.0	
2-butanone	0.387	0.512		-32.3	
2-chloroethyl vinyl ether	0.221	0.253		-14.5	
2-chlorotoluene	0.646	0.680		-5.3	
2-hexanone	4.45	6.897		-55.0	
4-chlorotoluene	0.618	0.702		-13.6	
4-isopropyltoluene	3.04	3.304		-8.5	
4-methyl-2-pentanone	0.580	0.677		-16.7	
acetone	0.332	0.433		-30.4	
acrolein	0.023	0.023		0.0	
acrylonitrile	0.072	0.068		5.6	
benzene	2.48	2.347		5.4	
bromobenzene	3.02	4.179		-38.5	
bromochloromethane	0.133	0.163		-22.6	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.554	0.613		-10.6	
bromoform	1.16	1.632	0.10	-41.2	
bromomethane	0.333	0.297		10.8	
Carbon disulfide	1.94	1.836		5.5	
carbon tetrachloride	0.795	0.889		-11.8	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD3 Calibration Date: 07/29/05 Time: 8:36

Lab File ID: 0729302.D Init. Calib. Date: 07/14/05

EPA Sample No.: QCHK100 Init. Calib. Time: 17:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	10.591	11.980	0.30	-13.1	
chloroethane	0.373	0.279		25.2	
chloroform	0.938	1.012		-7.9	20.0
chloromethane	0.796	0.911	0.10	-14.4	
cis-1,2-dichloroethene	0.531	0.525		1.1	
cis-1,3-dichloropropene	0.655	0.683		-4.3	
dibromochloromethane	2.171	3.181		-46.5	
dibromomethane	0.177	0.186		-5.1	
dichlorodifluoromethane	0.954	1.238		-29.8	
DIPE	3.114	3.090		0.8	
ethylbenzene	4.293	4.328		-0.8	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.292	0.459		-57.2	
Iodomethane	0.559	0.718		-28.4	
isopropylbenzene	3.968	3.965		0.1	
m/p-xylene	1.467	1.433		2.3	
methylene chloride	0.400	0.388		3.0	
MTBE	1.601	1.724		-7.7	
n-butylbenzene	3.393	3.529		-4.0	
n-propyl benzene	4.949	4.587		7.3	
naphthalene	0.587	0.756		-28.8	
o-xylene	1.289	1.260		2.2	
sec-butylbenzene	4.301	4.125		4.1	
styrene	1.773	1.739		1.9	
tert-butylbenzene	2.514	2.610		-3.8	
tetrachloroethene	4.510	5.911		-31.1	
toluene	1.363	1.401		-2.8	20.0
trans-1,2-dichloroethene	0.556	0.553		0.5	
trans-1,3-dichloropropene	0.499	0.551		-10.4	
trans-1,4-Dichloro-2-butene	0.057	0.067		-17.5	
trichloroethene	0.616	0.631		-2.4	
trichlorofluoromethane	0.951	1.088		-14.4	
Vinyl acetate	0.043	0.049		-14.0	
vinyl chloride	0.929	0.972		-4.6	20.0
1,2-dichloroethane-d4	0.246	0.248		-0.8	
4-bromofluorobenzene	2.74	3.347		-22.0	
toluene-d8	0.711	0.728		-2.4	

Paradigm Analytical Laboratories, INC.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: QCHK100 Date Analyzed: 07/28/05

Lab File ID (Standard): 0728302.D Time Analyzed: 08:29

Instrument ID: MSD3 Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

		IS1 (BCP) AREA #	RT #	IS2 (FB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	179403	11.29	1714765	8.05	1063950	13.12
	UPPER LIMIT	358806	11.79	3429530	8.55	2127900	13.62
	LOWER LIMIT	89702	10.79	857383	7.55	531975	12.62
	EPA SAMPLE						
01	D1-5	208988	11.28	1747644	8.06	1172457	13.11
02	VBLK3072805C	151384	11.29	1502894	8.07	931173	13.12
03	LCS3072805A	167445	11.29	1692467	8.05	1009082	13.11
04	G161-2081-1B MS	221344	11.28	2042409	8.05	1238103	13.12
05	G161-2081-1B MSD	225358	11.29	2109978	8.07	1265225	13.12
06	D1-15	192239	11.28	1614959	8.06	1081371	13.12
07	D3-1	159082	11.29	1588487	8.05	977140	13.11
08	D3-5	159456	11.28	1588128	8.05	1056774	13.12
09	D3-15	207288	11.28	1959073	8.05	1225789	13.11
10	DUP-4	296719	11.28	2462775	8.06	1632538	13.11
11	TRIP BLANK	151421	11.29	1206015	8.05	827893	13.11
12							
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IS1 (BCP) = Bromochloropropane
IS2 (FB) = Fluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: QCHK100 Date Analyzed: 07/29/05

Lab File ID (Standard): 0729302.D Time Analyzed: 08:36

Instrument ID: MSD3 Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

		IS1 (BCP) AREA #	RT #	IS2 (FB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	344651	11.27	3450090	8.05	2150000	13.11
	UPPER LIMIT	689302	11.77	6900180	8.55	4300000	13.61
	LOWER LIMIT	172326	10.77	1725045	7.55	1075000	12.61
	EPA SAMPLE						
01	D1-25	214994	11.27	2198191	8.04	1301082	13.1
02	VBLK3072905A	251612	11.27	2359705	8.04	1429558	13.1
03	LCS3072905A	334267	11.27	3465684	8.04	2168571	13.1
04	G161-2081-4A MS	385083	11.28	4263578	8.04	2485806	13.11
05	G161-2081-4A MSD	329192	11.28	3546145	8.05	2077317	13.11
06	D2-1	192210	11.27	2038627	8.04	1231719	13.1
07	D2-5	200327	11.26	1846431	8.04	1117885	13.1
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IS1 (BCP) = Bromochloropropane
IS2 (FB) = Fluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072805A
Sample wt/vol: 5 (g) Lab File ID: 0728303.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 07/28/05 09:00
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	100	136	136	50.8-149
107-02-8	acrolein	1000	824	82.4	NA-238
107-13-1	acrylonitrile	1000	739	73.9	NA-212
71-43-2	benzene	100	83.9	83.9	77.6-122
108-86-1	bromobenzene	100	123	123	76.3-124
74-97-5	bromochloromethane	100	107	107	80.5-120
75-27-4	bromodichloromethane	100	105	105	77.4-122
75-25-2	bromoform	100	124	124*	81.8-118
74-83-9	bromomethane	100	135	135	31.5-168
78-93-3	2-butanone	100	104	104	56.5-144
104-51-8	n-butylbenzene	100	96.6	96.6	76.8-123
135-98-8	sec-butylbenzene	100	94.8	94.8	78.5-122
98-06-6	tert-butylbenzene	100	102	102	77.7-122
75-15-0	Carbon disulfide	100	90.0	90.0	74.3-126
56-23-5	carbon tetrachloride	100	120	120	68.0-132
108-90-7	chlorobenzene	100	99.2	99.2	75.3-125
75-00-3	chloroethane	100	138	138	10.0-260
110-75-8	2-chloroethyl vinyl ether	100	89.5	89.5	NA-1020
67-66-3	chloroform	100	105	105	74.7-125
74-87-3	chloromethane	100	107	107	78.6-121
95-49-8	2-chlorotoluene	100	104	104	77.8-122
106-43-4	4-chlorotoluene	100	107	107	77.2-123
124-48-1	dibromochloromethane	100	135	135*	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	500	475	95.1	67.4-133
106-93-4	1,2-dibromomethane	100	97.2	97.2	80.2-120
74-95-3	dibromomethane	100	93.5	93.5	81.0-119
95-50-1	1,2-dichlorobenzene	100	108	108	80.1-120
541-73-1	1,3-dichlorobenzene	100	112	112	78.9-121
106-46-7	1,4-dichlorobenzene	100	112	112	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	500	495	99.0	69.5-130
75-71-8	dichlorodifluoromethane	100	139	139*	65.0-135
75-34-3	1,1-dichloroethane	100	89.2	89.2	74.2-126
107-06-2	1,2-dichloroethane	100	99.9	99.9	74.9-125
75-35-4	1,1-dichloroethene	100	94.2	94.2	78.5-121
156-59-2	cis-1,2-dichloroethene	100	88.6	88.6	77.6-122
156-60-5	trans-1,2-dichloroethene	100	91.3	91.3	78.5-121
78-87-5	1,2-dichloropropane	100	79.8	79.8	76.6-123
142-28-9	1,3-dichloropropane	100	97.3	97.3	84.9-115
594-20-7	2,2-dichloropropane	100	114	114	68.6-131
563-58-6	1,1-dichloropropene	100	95.9	95.9	79.3-121
10061-01-5	cis-1,3-dichloropropene	100	94.5	94.5	75.8-124

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072805A
Sample wt/vol: 5 (g) Lab File ID: 0728303.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 07/28/05 09:00
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	100	100	100	77.5-122
108-20-3	Diisopropyl ether	100	91.5	91.5	71.8-128
100-41-4	ethylbenzene	100	100	100	76.3-124
87-68-3	hexachlorobutadiene	100	131	131*	73.5-126
591-78-6	2-hexanone	100	125	125	61.2-139
74-88-4	Iodomethane	100	125	125	37.0-163
98-82-8	isopropylbenzene	100	97.3	97.3	77.6-122
99-87-6	4-isopropyltoluene	100	100	100	78.1-122
1634-04-4	Methyl-tert-butyl ether	100	97.4	97.4	78.9-121
75-09-2	methylene chloride	100	88.6	88.6	57.9-142
108-10-1	4-methyl-2-pentanone	100	95.4	95.4	65.1-135
91-20-3	naphthalene	100	111	111	69.3-131
103-65-1	n-propyl benzene	100	101	101	78.3-122
100-42-5	styrene	100	89.5	89.5	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	100	139	139*	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	100	102	102	78.4-122
127-18-4	tetrachloroethene	100	123	123	73.0-127
108-88-3	toluene	100	90.6	90.6	75.7-124
87-61-6	1,2,3-trichlorobenzene	100	94.1	94.1	76.5-124
120-82-1	1,2,4-trichlorobenzene	100	99.0	99.0	74.2-126
71-55-6	1,1,1-trichloroethane	100	114	114	70.5-130
79-00-5	1,1,2-trichloroethane	100	95.5	95.5	84.2-116
79-01-6	trichloroethene	100	97.2	97.2	60.8-139
75-69-4	trichlorofluoromethane	100	132	132	10.0-232
96-18-4	1,2,3-trichloropropane	100	105	105	74.4-126
95-36-3	1,2,4-trimethylbenzene	100	96.6	96.6	77.4-122
108-67-8	1,3,5-trimethylbenzene	100	97.9	97.9	77.6-122
108-05-4	Vinyl acetate	250	221	88.4	NA-NA
75-01-4	vinyl chloride	100	98.4	98.4	79.6-120
108-38-3	m/p-xylene	200	179	89.7	78.8-121
95-47-6	o-xylene	100	90.0	90.0	78.7-121

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072905A
Sample wt/vol: 5 (g) Lab File ID: 0729303.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 07/29/05 09:07
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	100	132	132	50.8-149
107-02-8	acrolein	1000	829	82.9	NA-238
107-13-1	acrylonitrile	1000	778	77.8	NA-212
71-43-2	benzene	100	87.4	87.4	77.6-122
108-86-1	bromobenzene	100	133	133*	76.3-124
74-97-5	bromochloromethane	100	109	109	80.5-120
75-27-4	bromodichloromethane	100	104	104	77.4-122
75-25-2	bromoform	100	133	133*	81.8-118
74-83-9	bromomethane	100	116	116	31.5-168
78-93-3	2-butanone	100	108	108	56.5-144
104-51-8	n-butylbenzene	100	95.6	95.6	76.8-123
135-98-8	sec-butylbenzene	100	90.9	90.9	78.5-122
98-06-6	tert-butylbenzene	100	87.6	87.6	77.7-122
75-15-0	Carbon disulfide	100	86.5	86.5	74.3-126
56-23-5	carbon tetrachloride	100	109	109	68.0-132
108-90-7	chlorobenzene	100	109	109	75.3-125
75-00-3	chloroethane	100	108	108	10.0-260
110-75-8	2-chloroethyl vinyl ether	100	96.1	96.1	NA-1020
67-66-3	chloroform	100	101	101	74.7-125
74-87-3	chloromethane	100	98.1	98.1	78.6-121
95-49-8	2-chlorotoluene	100	96.4	96.4	77.8-122
106-43-4	4-chlorotoluene	100	105	105	77.2-123
124-48-1	dibromochloromethane	100	140	140*	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	500	468	93.5	67.4-133
106-93-4	1,2-dibromomethane	100	108	108	80.2-120
74-95-3	dibromomethane	100	93.8	93.8	81.0-119
95-50-1	1,2-dichlorobenzene	100	110	110	80.1-120
541-73-1	1,3-dichlorobenzene	100	102	102	78.9-121
106-46-7	1,4-dichlorobenzene	100	103	103	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	500	508	102	69.5-130
75-71-8	dichlorodifluoromethane	100	117	117	65.0-135
75-34-3	1,1-dichloroethane	100	87.1	87.1	74.2-126
107-06-2	1,2-dichloroethane	100	92.6	92.6	74.9-125
75-35-4	1,1-dichloroethene	100	90.3	90.3	78.5-121
156-59-2	cis-1,2-dichloroethene	100	92.2	92.2	77.6-122
156-60-5	trans-1,2-dichloroethene	100	93.0	93.0	78.5-121
78-87-5	1,2-dichloropropane	100	81.4	81.4	76.6-123
142-28-9	1,3-dichloropropane	100	106	106	84.9-115
594-20-7	2,2-dichloropropane	100	105	105	68.6-131
563-58-6	1,1-dichloropropene	100	95.9	95.9	79.3-121
10061-01-5	cis-1,3-dichloropropene	100	96.6	96.6	75.8-124

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072905A
Sample wt/vol: 5 (g) Lab File ID: 0729303.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 07/29/05 09:07
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	100	100	100	77.5-122
108-20-3	Diisopropyl ether	100	89.7	89.7	71.8-128
100-41-4	ethylbenzene	100	96.2	96.2	76.3-124
87-68-3	hexachlorobutadiene	100	136	136*	73.5-126
591-78-6	2-hexanone	100	134	134	61.2-139
74-88-4	Iodomethane	100	115	115	37.0-163
98-82-8	isopropylbenzene	100	96.0	96.0	77.6-122
99-87-6	4-isopropyltoluene	100	99.4	99.4	78.1-122
1634-04-4	Methyl-tert-butyl ether	100	94.4	94.4	78.9-121
75-09-2	methylene chloride	100	87.9	87.9	57.9-142
108-10-1	4-methyl-2-pentanone	100	98.0	98.0	65.1-135
91-20-3	naphthalene	100	127	127	69.3-131
103-65-1	n-propyl benzene	100	89.4	89.4	78.3-122
100-42-5	styrene	100	89.1	89.1	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	100	143	143*	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	100	111	111	78.4-122
127-18-4	tetrachloroethene	100	130	130*	73.0-127
108-88-3	toluene	100	97.2	97.2	75.7-124
87-61-6	1,2,3-trichlorobenzene	100	104	104	76.5-124
120-82-1	1,2,4-trichlorobenzene	100	109	109	74.2-126
71-55-6	1,1,1-trichloroethane	100	104	104	70.5-130
79-00-5	1,1,2-trichloroethane	100	104	104	84.2-116
79-01-6	trichloroethene	100	97.3	97.3	60.8-139
75-69-4	trichlorofluoromethane	100	111	111	10.0-232
96-18-4	1,2,3-trichloropropane	100	117	117	74.4-126
95-36-3	1,2,4-trimethylbenzene	100	95.3	95.3	77.4-122
108-67-8	1,3,5-trimethylbenzene	100	95.1	95.1	77.6-122
108-05-4	Vinyl acetate	250	233	93.2	NA-NA
75-01-4	vinyl chloride	100	89.5	89.5	79.6-120
108-38-3	m/p-xylene	200	177	88.6	78.8-121
95-47-6	o-xylene	100	89.9	89.9	78.7-121

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.343	1	7/27/2005
Acenaphthylene	BQL	0.343	1	7/27/2005
Anthracene	BQL	0.343	1	7/27/2005
Benzo[a]anthracene	BQL	0.343	1	7/27/2005
Benzo[a]pyrene	BQL	0.343	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.343	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.343	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.343	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.343	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.343	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.343	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.343	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.343	1	7/27/2005
Butylbenzylphthalate	BQL	0.343	1	7/27/2005
2-Chloronaphthalene	BQL	0.343	1	7/27/2005
4-Chloroaniline	BQL	1.71	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.343	1	7/27/2005
Chrysene	BQL	0.343	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.343	1	7/27/2005
Dibenzofuran	BQL	0.343	1	7/27/2005
Di-n-Butylphthalate	BQL	0.343	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.343	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.686	1	7/27/2005
Diethylphthalate	BQL	0.343	1	7/27/2005
Dimethylphthalate	BQL	0.343	1	7/27/2005
Di-n-octylphthalate	BQL	0.343	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.343	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.343	1	7/27/2005
Diphenylamine *	BQL	0.343	1	7/27/2005
Fluoranthene	BQL	0.343	1	7/27/2005
Fluorene	BQL	0.343	1	7/27/2005
Hexachlorobenzene	BQL	0.343	1	7/27/2005
Hexachlorobutadiene	BQL	0.343	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.686	1	7/27/2005
Hexachloroethane	BQL	0.343	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.343	1	7/27/2005
Isophorone	BQL	0.343	1	7/27/2005
2-Methylnaphthalene	BQL	0.343	1	7/27/2005
Naphthalene	BQL	0.343	1	7/27/2005
2-Nitroaniline	BQL	0.343	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.71	1	7/27/2005
4-Nitroaniline	BQL	1.71	1	7/27/2005
Nitrobenzene	BQL	0.343	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.343	1	7/27/2005
Phenanthrene	BQL	0.343	1	7/27/2005
Pyrene	BQL	0.343	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.343	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	11.2	112
Nitrobenzene-d5	10	11	110
4-Terphenyl-d14	10	12.9	129

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.337	1	7/27/2005
Acenaphthylene	BQL	0.337	1	7/27/2005
Anthracene	BQL	0.337	1	7/27/2005
Benzo[a]anthracene	BQL	0.337	1	7/27/2005
Benzo[a]pyrene	BQL	0.337	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.337	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.337	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.337	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.337	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.337	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.337	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.337	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.337	1	7/27/2005
Butylbenzylphthalate	BQL	0.337	1	7/27/2005
2-Chloronaphthalene	BQL	0.337	1	7/27/2005
4-Chloroaniline	BQL	1.68	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.337	1	7/27/2005
Chrysene	BQL	0.337	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.337	1	7/27/2005
Dibenzofuran	BQL	0.337	1	7/27/2005
Di-n-Butylphthalate	BQL	0.337	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.337	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.674	1	7/27/2005
Diethylphthalate	BQL	0.337	1	7/27/2005
Dimethylphthalate	BQL	0.337	1	7/27/2005
Di-n-octylphthalate	BQL	0.337	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.337	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.337	1	7/27/2005
Diphenylamine *	BQL	0.337	1	7/27/2005
Fluoranthene	BQL	0.337	1	7/27/2005
Fluorene	BQL	0.337	1	7/27/2005
Hexachlorobenzene	BQL	0.337	1	7/27/2005
Hexachlorobutadiene	BQL	0.337	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.674	1	7/27/2005
Hexachloroethane	BQL	0.337	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.337	1	7/27/2005
Isophorone	BQL	0.337	1	7/27/2005
2-Methylnaphthalene	**0.357**	0.337	1	7/27/2005
Naphthalene	BQL	0.337	1	7/27/2005
2-Nitroaniline	BQL	0.337	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.68	1	7/27/2005
4-Nitroaniline	BQL	1.68	1	7/27/2005
Nitrobenzene	BQL	0.337	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.337	1	7/27/2005
Phenanthrene	BQL	0.337	1	7/27/2005
Pyrene	BQL	0.337	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.337	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.8	98
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.327	1	7/27/2005
Acenaphthylene	BQL	0.327	1	7/27/2005
Anthracene	BQL	0.327	1	7/27/2005
Benzo[a]anthracene	BQL	0.327	1	7/27/2005
Benzo[a]pyrene	BQL	0.327	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.327	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.327	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.327	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.327	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.327	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.327	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.327	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.327	1	7/27/2005
Butylbenzylphthalate	BQL	0.327	1	7/27/2005
2-Chloronaphthalene	BQL	0.327	1	7/27/2005
4-Chloroaniline	BQL	1.64	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.327	1	7/27/2005
Chrysene	BQL	0.327	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.327	1	7/27/2005
Dibenzofuran	BQL	0.327	1	7/27/2005
Di-n-Butylphthalate	BQL	0.327	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.327	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.655	1	7/27/2005
Diethylphthalate	BQL	0.327	1	7/27/2005
Dimethylphthalate	BQL	0.327	1	7/27/2005
Di-n-octylphthalate	BQL	0.327	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.327	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.327	1	7/27/2005
Diphenylamine *	BQL	0.327	1	7/27/2005
Fluoranthene	BQL	0.327	1	7/27/2005
Fluorene	BQL	0.327	1	7/27/2005
Hexachlorobenzene	BQL	0.327	1	7/27/2005
Hexachlorobutadiene	BQL	0.327	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.655	1	7/27/2005
Hexachloroethane	BQL	0.327	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.327	1	7/27/2005
Isophorone	BQL	0.327	1	7/27/2005
2-Methylnaphthalene	BQL	0.327	1	7/27/2005
Naphthalene	BQL	0.327	1	7/27/2005
2-Nitroaniline	BQL	0.327	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.64	1	7/27/2005
4-Nitroaniline	BQL	1.64	1	7/27/2005
Nitrobenzene	BQL	0.327	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.327	1	7/27/2005
Phenanthrene	BQL	0.327	1	7/27/2005
Pyrene	BQL	0.327	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.327	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.4	104
Nitrobenzene-d5	10	10.7	107
4-Terphenyl-d14	10	13.6	136

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-4E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:32
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 90.93

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.328	1	7/27/2005
Acenaphthylene	BQL	0.328	1	7/27/2005
Anthracene	BQL	0.328	1	7/27/2005
Benzo[a]anthracene	BQL	0.328	1	7/27/2005
Benzo[a]pyrene	BQL	0.328	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.328	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.328	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.328	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.328	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.328	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.328	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.328	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.328	1	7/27/2005
Butylbenzylphthalate	**0.371**	0.328	1	7/27/2005
2-Chloronaphthalene	BQL	0.328	1	7/27/2005
4-Chloroaniline	BQL	1.64	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.328	1	7/27/2005
Chrysene	BQL	0.328	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.328	1	7/27/2005
Dibenzofuran	BQL	0.328	1	7/27/2005
Di-n-Butylphthalate	BQL	0.328	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.328	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.328	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.328	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.657	1	7/27/2005
Diethylphthalate	BQL	0.328	1	7/27/2005
Dimethylphthalate	BQL	0.328	1	7/27/2005
Di-n-octylphthalate	BQL	0.328	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.328	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.328	1	7/27/2005
Diphenylamine *	BQL	0.328	1	7/27/2005
Fluoranthene	BQL	0.328	1	7/27/2005
Fluorene	BQL	0.328	1	7/27/2005
Hexachlorobenzene	BQL	0.328	1	7/27/2005
Hexachlorobutadiene	BQL	0.328	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.657	1	7/27/2005
Hexachloroethane	BQL	0.328	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.328	1	7/27/2005
Isophorone	BQL	0.328	1	7/27/2005
2-Methylnaphthalene	BQL	0.328	1	7/27/2005
Naphthalene	BQL	0.328	1	7/27/2005
2-Nitroaniline	BQL	0.328	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-4E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:32
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 90.93

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.64	1	7/27/2005
4-Nitroaniline	BQL	1.64	1	7/27/2005
Nitrobenzene	BQL	0.328	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.328	1	7/27/2005
Phenanthrene	BQL	0.328	1	7/27/2005
Pyrene	BQL	0.328	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.328	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.7	107
Nitrobenzene-d5	10	10.5	105
4-Terphenyl-d14	10	13.9	139

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-5E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:34
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 77.74

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.393	1	7/27/2005
Acenaphthylene	BQL	0.393	1	7/27/2005
Anthracene	BQL	0.393	1	7/27/2005
Benzo[a]anthracene	BQL	0.393	1	7/27/2005
Benzo[a]pyrene	BQL	0.393	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.393	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.393	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.393	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.393	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.393	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.393	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.393	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.393	1	7/27/2005
Butylbenzylphthalate	BQL	0.393	1	7/27/2005
2-Chloronaphthalene	BQL	0.393	1	7/27/2005
4-Chloroaniline	BQL	1.97	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.393	1	7/27/2005
Chrysene	BQL	0.393	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.393	1	7/27/2005
Dibenzofuran	BQL	0.393	1	7/27/2005
Di-n-Butylphthalate	BQL	0.393	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.393	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.393	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.393	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.787	1	7/27/2005
Diethylphthalate	BQL	0.393	1	7/27/2005
Dimethylphthalate	BQL	0.393	1	7/27/2005
Di-n-octylphthalate	BQL	0.393	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.393	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.393	1	7/27/2005
Diphenylamine *	BQL	0.393	1	7/27/2005
Fluoranthene	BQL	0.393	1	7/27/2005
Fluorene	BQL	0.393	1	7/27/2005
Hexachlorobenzene	BQL	0.393	1	7/27/2005
Hexachlorobutadiene	BQL	0.393	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.787	1	7/27/2005
Hexachloroethane	BQL	0.393	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.393	1	7/27/2005
Isophorone	BQL	0.393	1	7/27/2005
2-Methylnaphthalene	BQL	0.393	1	7/27/2005
Naphthalene	BQL	0.393	1	7/27/2005
2-Nitroaniline	BQL	0.393	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D2-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-5E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:34
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 77.74

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.97	1	7/27/2005
4-Nitroaniline	BQL	1.97	1	7/27/2005
Nitrobenzene	BQL	0.393	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.393	1	7/27/2005
Phenanthrene	BQL	0.393	1	7/27/2005
Pyrene	BQL	0.393	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.393	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.7	107
4-Terphenyl-d14	10	12.6	126

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-6E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:53
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 76.52

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.407	1	7/27/2005
Acenaphthylene	BQL	0.407	1	7/27/2005
Anthracene	BQL	0.407	1	7/27/2005
Benzo[a]anthracene	BQL	0.407	1	7/27/2005
Benzo[a]pyrene	BQL	0.407	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.407	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.407	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.407	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.407	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.407	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.407	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.407	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.407	1	7/27/2005
Butylbenzylphthalate	BQL	0.407	1	7/27/2005
2-Chloronaphthalene	BQL	0.407	1	7/27/2005
4-Chloroaniline	BQL	2.03	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.407	1	7/27/2005
Chrysene	BQL	0.407	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.407	1	7/27/2005
Dibenzofuran	BQL	0.407	1	7/27/2005
Di-n-Butylphthalate	BQL	0.407	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.407	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.407	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.407	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.813	1	7/27/2005
Diethylphthalate	BQL	0.407	1	7/27/2005
Dimethylphthalate	BQL	0.407	1	7/27/2005
Di-n-octylphthalate	BQL	0.407	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.407	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.407	1	7/27/2005
Diphenylamine *	BQL	0.407	1	7/27/2005
Fluoranthene	BQL	0.407	1	7/27/2005
Fluorene	BQL	0.407	1	7/27/2005
Hexachlorobenzene	BQL	0.407	1	7/27/2005
Hexachlorobutadiene	BQL	0.407	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.813	1	7/27/2005
Hexachloroethane	BQL	0.407	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.407	1	7/27/2005
Isophorone	BQL	0.407	1	7/27/2005
2-Methylnaphthalene	BQL	0.407	1	7/27/2005
Naphthalene	BQL	0.407	1	7/27/2005
2-Nitroaniline	BQL	0.407	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-6E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:53
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 76.52

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.03	1	7/27/2005
4-Nitroaniline	BQL	2.03	1	7/27/2005
Nitrobenzene	BQL	0.407	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.407	1	7/27/2005
Phenanthrene	BQL	0.407	1	7/27/2005
Pyrene	BQL	0.407	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.407	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
Nitrobenzene-d5	10	10.2	102
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-7E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.335	1	7/27/2005
Acenaphthylene	BQL	0.335	1	7/27/2005
Anthracene	BQL	0.335	1	7/27/2005
Benzo[a]anthracene	**0.557**	0.335	1	7/27/2005
Benzo[a]pyrene	**0.624**	0.335	1	7/27/2005
Benzo[b]fluoranthene	**0.741**	0.335	1	7/27/2005
Benzo[g,h,i]perylene	**0.356**	0.335	1	7/27/2005
Benzo[k]fluoranthene	**0.339**	0.335	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.335	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.335	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.335	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.335	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.335	1	7/27/2005
Butylbenzylphthalate	BQL	0.335	1	7/27/2005
2-Chloronaphthalene	BQL	0.335	1	7/27/2005
4-Chloroaniline	BQL	1.68	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.335	1	7/27/2005
Chrysene	**0.741**	0.335	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.335	1	7/27/2005
Dibenzofuran	BQL	0.335	1	7/27/2005
Di-n-Butylphthalate	BQL	0.335	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.335	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.335	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.335	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.671	1	7/27/2005
Diethylphthalate	BQL	0.335	1	7/27/2005
Dimethylphthalate	BQL	0.335	1	7/27/2005
Di-n-octylphthalate	BQL	0.335	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.335	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.335	1	7/27/2005
Diphenylamine *	BQL	0.335	1	7/27/2005
Fluoranthene	**1.16**	0.335	1	7/27/2005
Fluorene	BQL	0.335	1	7/27/2005
Hexachlorobenzene	BQL	0.335	1	7/27/2005
Hexachlorobutadiene	BQL	0.335	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.671	1	7/27/2005
Hexachloroethane	BQL	0.335	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.335	1	7/27/2005
Isophorone	BQL	0.335	1	7/27/2005
2-Methylnaphthalene	BQL	0.335	1	7/27/2005
Naphthalene	BQL	0.335	1	7/27/2005
2-Nitroaniline	BQL	0.335	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-7E
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.68	1	7/27/2005
4-Nitroaniline	BQL	1.68	1	7/27/2005
Nitrobenzene	BQL	0.335	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.335	1	7/27/2005
Phenanthrene	**0.892**	0.335	1	7/27/2005
Pyrene	**1.65**	0.335	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.335	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.8	108
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	14	140

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-8F
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:59
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 87.85

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.340	1	7/27/2005
Acenaphthylene	BQL	0.340	1	7/27/2005
Anthracene	BQL	0.340	1	7/27/2005
Benzo[a]anthracene	BQL	0.340	1	7/27/2005
Benzo[a]pyrene	BQL	0.340	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.340	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.340	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.340	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.340	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.340	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.340	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.340	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.340	1	7/27/2005
Butylbenzylphthalate	BQL	0.340	1	7/27/2005
2-Chloronaphthalene	BQL	0.340	1	7/27/2005
4-Chloroaniline	BQL	1.70	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.340	1	7/27/2005
Chrysene	BQL	0.340	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.340	1	7/27/2005
Dibenzofuran	BQL	0.340	1	7/27/2005
Di-n-Butylphthalate	BQL	0.340	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.340	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.340	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.340	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.681	1	7/27/2005
Diethylphthalate	BQL	0.340	1	7/27/2005
Dimethylphthalate	BQL	0.340	1	7/27/2005
Di-n-octylphthalate	BQL	0.340	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.340	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.340	1	7/27/2005
Diphenylamine *	BQL	0.340	1	7/27/2005
Fluoranthene	BQL	0.340	1	7/27/2005
Fluorene	BQL	0.340	1	7/27/2005
Hexachlorobenzene	BQL	0.340	1	7/27/2005
Hexachlorobutadiene	BQL	0.340	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.681	1	7/27/2005
Hexachloroethane	BQL	0.340	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.340	1	7/27/2005
Isophorone	BQL	0.340	1	7/27/2005
2-Methylnaphthalene	BQL	0.340	1	7/27/2005
Naphthalene	BQL	0.340	1	7/27/2005
2-Nitroaniline	BQL	0.340	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D3-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-8F
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:59
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 87.85

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.70	1	7/27/2005
4-Nitroaniline	BQL	1.70	1	7/27/2005
Nitrobenzene	BQL	0.340	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.340	1	7/27/2005
Phenanthrene	BQL	0.340	1	7/27/2005
Pyrene	BQL	0.340	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.340	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10.3	103
4-Terphenyl-d14	10	13.6	136

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

2D

SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #				TOT OUT
01	D1-5	110	112	129				0
02	G161-2081-3I MS	103	98	118				0
03	G161-2081-3J MSD	108	105	137				0
04	LCS3303	112	110	146				0
05	PB3303	114	114	130				0
06	D1-15	106	98	131				0
07	D1-25	107	104	136				0
08	D2-1	105	107	139				0
09	D2-5	107	102	126				0
10	D3-1	102	96	131				0
11	D3-5	106	108	140				0
12	D3-15	103	100	136				0
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(46-117)
S2 (FBP) = 2-Fluorobiphenyl	(42-116)
S3 (TPH) = Terphenyl-d14	(44-140)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-3H

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	3350	3620	108	3400	3740	110	1.74	30	71.0-125
Acenaphthylene	BQL	3350	4100	122	3400	4240	124	1.70	30	73.0-140
Anthracene	BQL	3350	3710	111	3400	3820	112	1.52	30	66.9-119
Benzo[a]anthracene	BQL	3350	3270	97.4	3400	3430	101	3.43	30	51.8-127
Benzo[a]pyrene	BQL	3350	4060	121	3400	4100	120	0.663	30	78.5-137
Benzo[b]fluoranthene	BQL	3350	3700	110	3400	4020	118	6.82	30	62.3-134
Benzo[g,h,i]perylene	BQL	3350	4230	126	3400	3630	107	16.7	30	56.2-149
Benzo[k]fluoranthene	BQL	3350	3970	118	3400	4170	122	3.24	30	79.7-133
Benzoic Acid	BQL	3350	4260	127	3400	4290	126	0.790	30	0.00-140
Benzyl Alcohol	BQL	3350	3340	99.5	3400	3390	99.5	1E-14	30	66.8-114
Bis(2-chloroethoxy)methane	BQL	3350	3560	106	3400	3620	106	0.0942	30	71.4-123
Bis(2-chloroethyl)ether	BQL	3350	3460	103	3400	3190	93.8	9.45	30	64.0-120
Bis(2-chloroisopropyl)ether	BQL	3350	3560	106	3400	3650	107	1.03	30	60.5-123
Bis(2-ethylhexyl)phthalate	BQL	3350	3450	103	3400	3860	113	9.80	30	68.5-134
4-bromophenyl phenyl ether	BQL	3350	3180	94.9	3400	3310	97.1	2.29	30	65.2-127
Butylbenzylphthalate	BQL	3350	3790	113	3400	4200	123	8.72	30	64.4-132
4-Chloroaniline	BQL	3350	5010	149	3400	5880	173	14.5	30	25.1-236
4-Chloro-3-methylphenol	BQL	3350	3620	108	3400	3620	106	1.58	30	80.0-115
2-Chloronaphthalene	BQL	3350	3540	105	3400	3660	108	2.06	30	70.3-124
2-Chlorophenol	BQL	3350	3320	99.0	3400	3430	101	1.60	30	77.1-110
4-Chlorophenyl phenyl ether	BQL	3350	3590	107	3400	3720	109	2.03	30	72.8-124
Chrysene	BQL	3350	3730	111	3400	3890	114	2.57	30	72.7-124
Di-n-Butylphthalate	BQL	3350	3320	98.9	3400	3400	100	1.11	30	67.9-125
Di-n-octylphthalate	BQL	3350	3380	101	3400	4260	125	21.5	30	48.9-162
Dibenzo[a,h]anthracene	BQL	3350	4550	136	3400	3790	111	19.8	30	58.6-146
Dibenzofuran	BQL	3350	3350	100	3400	3450	101	1.29	30	70.6-115
1,2-Dichlorobenzene	BQL	3350	3470	104	3400	3560	104	0.865	30	73.3-121
1,3-Dichlorobenzene	BQL	3350	3400	101	3400	3560	104	2.92	30	69.6-119
1,4-Dichlorobenzene	BQL	3350	3450	103	3400	3550	104	1.45	30	70.6-117
3,3'-Dichlorobenzidine	BQL	3350	5180	154	3400	5300	156	0.774	30	14.2-302
2,4-Dichlorophenol	BQL	3350	3440	103	3400	3440	101	1.57	30	74.5-115
Diethylphthalate	BQL	3350	3770	112	3400	3860	113	0.797	30	70.8-127
2,4-Dimethylphenol	BQL	3350	3620	108	3400	3670	108	0.371	30	85.4-138
Dimethylphthalate	BQL	3350	3700	110	3400	3770	111	0.453	30	68.5-122
4,6-Dinitro-2-methylphenol	BQL	3350	4020	120	3400	4080	120	5E-14	30	39.4-126
2,4-Dinitrophenol	BQL	3350	4470	133*	3400	4480	131*	1.44	30	20.4-130
2,4-Dinitrotoluene	BQL	3350	4160	124	3400	4290	126	1.52	30	67.6-136
2,6-Dinitrotoluene	BQL	3350	3820	114	3400	4020	118	3.53	30	69.3-131
Fluoranthene	BQL	3350	3560	106	3400	3680	108	1.86	30	64.6-129
Fluorene	BQL	3350	3810	114	3400	3960	116	2.26	30	72.4-128
Hexachlorobenzene	BQL	3350	3190	95.0	3400	3300	96.8	1.88	30	62.9-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-3h

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	3350	3340	99.5	3400	3450	101	1.69	30	69.1-118
Hexachlorocyclopentadiene	BQL	3350	3810	114	3400	3970	117	2.52	30	NA-176
Hexachloroethane	BQL	3350	3140	93.5	3400	3350	98.4	5.11	30	68.0-122
Indeno(1,2,3-c,d)pyrene	BQL	3350	4140	124	3400	3640	107	14.3	30	29.1-157
Isophorone	BQL	3350	4300	128	3400	4350	128	0.391	30	65.2-143
1-Methylnaphthalene	BQL	3350	3460	103	3400	3620	106	2.96	30	68.0-130
2-Methylnaphthalene	BQL	3350	3180	94.8	3400	3210	94.2	0.635	30	74.1-111
2-Methylphenol	BQL	3350	3650	109	3400	3510	103	5.28	30	78.7-116
4-Methylphenol	BQL	6710	6010	89.6	6810	6040	88.6	1.01	30	71.2-100
N-Nitrosodi-n-propylamine	BQL	3350	4140	123	3400	4240	124	0.968	30	74.3-133
Diphenylamine	BQL	3350	4320	129	3400	4970	146	12.5	30	73.6-208
Naphthalene	BQL	3350	3520	105	3400	3600	106	0.665	30	49.9-137
2-Nitroaniline	BQL	3350	3990	119	3400	4030	118	0.674	30	70.0-129
3-Nitroaniline	BQL	3350	10400	310	3400	11500	339	8.98	30	76.6-356
4-Nitroaniline	BQL	3350	5610	167	3400	6070	178*	6.36	30	50.8-178
Nitrobenzene	BQL	3350	3690	110	3400	3760	110	0.272	30	71.4-122
2-Nitrophenol	BQL	3350	3280	97.7	3400	3230	94.9	2.91	30	63.3-112
4-Nitrophenol	BQL	3350	5100	152*	3400	4870	143*	6.24	30	56.8-133
Pentachlorophenol	BQL	3350	3280	97.7	3400	3160	92.9	5.04	30	29.2-108
Phenanthrene	BQL	3350	3370	100	3400	3520	103	2.85	30	55.8-128
Phenol	BQL	3350	3660	109	3400	3570	105	4.12	30	71.2-120
Pyrene	BQL	3350	4530	135	3400	5100	150*	10.3	30	68.5-140
1,2,4-Trichlorobenzene	BQL	3350	3370	100	3400	3410	100	0.299	30	68.9-119
2,4,5-Trichlorophenol	BQL	3350	3600	108	3400	3730	110	1.84	30	72.4-118
2,4,6-Trichlorophenol	BQL	3350	3460	103	3400	3540	104	0.580	30	67.9-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3303

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0727622.D Lab Sample ID: PB3303

Instrument ID: MSD6 Date Extracted: 07/26/05

Matrix: (soil/water) SOIL Date Analyzed: 07/27/05

Level: (low/med) LOW Time Analyzed: 20:58

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	D1-5	G161-2081-1H	0727605.D	07/27 09:57
02	D1-15	G161-2081-2H	0727606.D	07/27 10:31
03	D1-25	G161-2081-3H	0727607.D	07/27 11:05
04	D2-1	G161-2081-4E	0727608.D	07/27 11:39
05	D2-5	G161-2081-5E	0727609.D	07/27 12:13
06	D3-1	G161-2081-6E	0727610.D	07/27 12:48
07	D3-5	G161-2081-7E	0727611.D	07/27 13:22
08	D3-15	G161-2081-8F	0727612.D	07/27 13:56
09	G161-2081-3I MS	G161-2081-3I MS	0727624.D	07/28 00:13
10	G161-2081-3J MSD	G161-2081-3J MSD	0727625.D	07/28 00:52
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COMMENTS:

Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0721601.D DFTPP Injection Date: 07/21/05

Instrument ID: MSD6 DFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.9
68	Less than 2.0% of mass 69	0.8
69	Mass 69 relative abundance	47.1
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	47.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	86.1
442	40.0 - 100.0% of mass 198	59.8
443	17.0 - 23.0% of mass 442	18.6

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL1	SVCAL1	0721602.D	07/21/05	09:18
02	SVCAL2	SVCAL2	0721603.D	07/21/05	09:52
03	SVCAL4	SVCAL4	0721604.D	07/21/05	10:25
04	SVCAL6	SVCAL6	0721605.D	07/21/05	11:00
05	SVCAL8	SVCAL8	0721606.D	07/21/05	11:34
06	SVCAL12	SVCAL12	0721607.D	07/21/05	12:08
07	SVCAL24	SVCAL24	0721608.D	07/21/05	12:42
08	SVCAL48	SVCAL48	0721609.D	07/21/05	13:16
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0727601.D DFTPP Injection Date: 07/27/05

Instrument ID: MSD6 DFTPP Injection Time: 07:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	49.7
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.2
365	Greater than 0.75% of mass 198	2.4
441	Present, but less than mass 443	81.0
442	40.0 - 100.0% of mass 198	64.2
443	17.0 - 23.0% of mass 442	19.5

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS8	SVCVS8	0727602.D	07/27/05	08:15
02	D1-5	G161-2081-1H	0727605.D	07/27/05	09:57
03	D1-15	G161-2081-2H	0727606.D	07/27/05	10:31
04	D1-25	G161-2081-3H	0727607.D	07/27/05	11:05
05	D1-25	G161-2081-3H	0727607.D	07/27/05	11:05
06	D2-1	G161-2081-4E	0727608.D	07/27/05	11:39
07	D2-5	G161-2081-5E	0727609.D	07/27/05	12:13
08	D3-1	G161-2081-6E	0727610.D	07/27/05	12:48
09	D3-5	G161-2081-7E	0727611.D	07/27/05	13:22
10	D3-15	G161-2081-8F	0727612.D	07/27/05	13:56
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0727614.D DFTPP Injection Date: 07/27/05

Instrument ID: MSD6 DFTPP Injection Time: 16:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	45.2
70	Less than 2.0% of mass 69	0.4
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	2.4
441	Present, but less than mass 443	79.5
442	40.0 - 100.0% of mass 198	74.3
443	17.0 - 23.0% of mass 442	19.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS8	SVCVS8	0727615.D	07/27/05	16:58
02	PB3303	PB3303	0727622.D	07/27/05	20:58
03	LCS3303	LCS3303	0727623.D	07/27/05	21:33
04	G161-2081-3I MS	G161-2081-3I MS	0727624.D	07/27/05	22:07
05	G161-2081-3J MSD	G161-2081-3J MSD	0727625.D	07/27/05	22:42
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Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine	0.743	0.573	0.956	0.949	1.06	0.948	1.08		0.901	20.1
N-Nitrosodimethylamine	0.662	0.585	0.661	0.671	0.628	0.696	0.688	0.648	0.655	5.41
Phenol	1.91	1.84	1.80	1.85	1.75	1.72	1.76	1.60	1.78	5.31
Bis(2-chloroethyl)ether	1.51	1.35	1.35	1.38	1.36	1.51	1.47	1.33	1.41	5.30
2-Chlorophenol	1.45	1.41	1.36	1.40	1.31	1.33	1.34	1.26	1.36	4.48
Benzyl Alcohol	1.01	0.947	0.934	0.977	0.912	0.953	0.969	0.922	0.953	3.42
1,3-Dichlorobenzene	1.39	1.35	1.34	1.35	1.29	1.31	1.30	1.24	1.32	3.47
1,4-Dichlorobenzene	1.41	1.36	1.39	1.38	1.32	1.32	1.34	1.28	1.35	3.25
1,2-Dichlorobenzene	1.31	1.30	1.25	1.26	1.19	1.19	1.19	1.13	1.23	5.12
2-Methylphenol	1.22	1.14	1.12	1.14	1.07	1.08	1.10	1.04	1.11	5.12
3-, 4-Methylphenol	1.79	1.64	1.62	1.64	1.56	1.58	1.63	1.53	1.62	4.81
Bis(2-chloroisopropyl)ether	1.76	1.63	1.65	1.65	1.55	1.59	1.60	1.48	1.61	5.13
N-Nitrosodi-n-propylamine	0.910	0.875	0.835	0.879	0.794	0.828	0.860	0.798	0.847	4.82
Hexachloroethane	0.583	0.523	0.513	0.530	0.502	0.519	0.535	0.505	0.526	4.83
2-Fluorophenol (surr)	0.972	0.989	1.01	1.02	1.02	1.04	1.05	0.994	1.01	2.43
Phenol-d6 (surr)	1.72	1.62	1.58	1.63	1.56	1.58	1.60	1.50	1.60	3.92
Nitrobenzene	0.408	0.370	0.377	0.393	0.357	0.382	0.375	0.356	0.377	4.70
Isophorone	0.613	0.570	0.564	0.589	0.540	0.573	0.560	0.531	0.568	4.58
2-Nitrophenol	0.207	0.202	0.196	0.189	0.170	0.179	0.175	0.165	0.185	8.45
2,4-Dimethylphenol	0.285	0.259	0.260	0.263	0.255	0.264	0.257	0.249	0.262	3.98
Benzoic Acid	0.166	0.117	0.137	0.148	0.146	0.171	0.179		0.152	14.2
Bis(2-chloroethoxy)methane	0.422	0.386	0.386	0.393	0.357	0.374	0.361	0.350	0.379	6.20
2,4-Dichlorophenol	0.304	0.269	0.271	0.289	0.260	0.277	0.266	0.257	0.274	5.75
1,2,4-Trichlorobenzene	0.323	0.303	0.283	0.295	0.271	0.281	0.271	0.261	0.286	7.07
Naphthalene	0.954	0.904	0.880	0.910	0.826	0.866	0.837	0.812	0.874	5.52
4-Chloroaniline	0.167	0.184	0.142		0.110	0.101	0.146	0.141	0.142	20.5
Hexachlorobutadiene	0.192	0.175	0.184	0.184	0.164	0.180	0.171	0.162	0.176	5.96
4-Chloro-3-methylphenol	0.347	0.310	0.314	0.328	0.300	0.326	0.326	0.312	0.320	4.48
2-Methylnaphthalene	0.700	0.644	0.644	0.656	0.601	0.630	0.612	0.602	0.636	5.20
Nitrobenzene-d5 (surr)	0.152	0.140	0.141	0.149	0.132	0.142	0.138	0.132	0.141	5.13
Hexachlorocyclopentadiene	0.148	0.088	0.098	0.111	0.091	0.118	0.106	0.129	0.111	18.2
2,4,6-Trichlorophenol	0.405	0.347	0.358	0.374	0.341	0.362	0.348	0.347	0.360	5.86
2,4,5-Trichlorophenol	0.405	0.354	0.364	0.375	0.340	0.373	0.356	0.356	0.365	5.33
2-Chloronaphthalene	1.11	1.02	0.982	1.01	0.929	0.998	0.932	0.925	0.989	6.44
2-Nitroaniline	0.365	0.329	0.333	0.350	0.312	0.334	0.342	0.331	0.337	4.69

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline	0.097	0.069	0.063		0.04	0.037	0.051	0.087	0.063	35.8
1-Methylnaphthalene	1.10	1.01	0.981	1.02	0.938	0.981	0.918	0.923	0.984	6.12
Dimethylphthalate	1.28	1.14	1.13	1.19	1.08	1.15	1.09	1.08	1.14	5.84
Acenaphthylene	1.52	1.36	1.32	1.35	1.25	1.29	1.21	1.01	1.29	11.3
2,6-Dinitrotoluene	0.278	0.226	0.237	0.253	0.236	0.254	0.245	0.241	0.246	6.45
Acenaphthene	0.976	0.896	0.891	0.912	0.835	0.877	0.841	0.843	0.884	5.30
2,4-Dinitrophenol	0.115	0.08	0.103	0.113	0.112	0.132	0.126	0.135	0.115	15.2
4-Nitrophenol	0.158	0.115	0.136	0.147	0.132	0.156	0.155	0.165	0.146	11.4
Dibenzofuran	1.59	1.46	1.43	1.46	1.34	1.42	1.36	1.35	1.42	5.78
2,4-Dinitrotoluene	0.347	0.280	0.311	0.303	0.289	0.304	0.298	0.303	0.304	6.47
Fluorene	1.13	1.05	1.07	1.10	0.994	1.07	1.01	1.02	1.06	4.37
Diethylphthalate	1.14	1.03	1.06	1.09	0.993	1.07	1.01	0.991	1.05	4.91
4-Chlorophenyl phenyl ether	0.600	0.570	0.559	0.577	0.533	0.552	0.517	0.512	0.553	5.52
4-Nitroaniline	0.133	0.099	0.124	0.132	0.115	0.116	0.099		0.117	12.0
2-Fluorobiphenyl (surr)	1.30	1.15	1.14	1.17	1.06	1.12	1.05	1.05	1.13	7.42
2,4,6-Tribromophenol (surr)	0.119	0.111	0.113	0.115	0.114	0.125	0.119	0.126	0.118	4.65
4,6-Dinitro-2-methylphenol	0.131	0.088	0.113	0.122	0.118	0.135	0.131	0.136	0.122	13.1
Diphenylamine	0.432	0.483	0.436	0.459	0.376	0.339	0.332		0.408	14.6
4-bromophenyl phenyl ether	0.235	0.241	0.227	0.228	0.208	0.214	0.204	0.196	0.219	7.32
Hexachlorobenzene	0.231	0.212	0.209	0.225	0.202	0.207	0.199	0.192	0.210	6.26
Pentachlorophenol	0.148	0.112	0.135	0.144	0.135	0.148	0.142	0.144	0.139	8.51
Phenanthrene	1.09	1.03	1.01	1.04	0.954	0.981	0.947	0.918	0.995	5.71
Carbazole	0.377	0.510	0.353	0.429	0.351				0.404	16.5
Anthracene	1.03	0.938	0.910	0.971	0.879	0.914	0.875	0.856	0.921	6.07
Azobenzene	0.937	0.907	0.876	0.910	0.820	0.857	0.830	0.781	0.865	6.11
Di-n-Butylphthalate	1.34	1.27	1.22	1.25	1.17	1.19	1.14	1.11	1.21	6.12
Fluoranthene	1.06	1.00	1.00	1.06	0.959	1.03	0.971	0.976	1.01	3.84
alpha-BHC	0.180	0.165	0.159		0.152	0.157	0.148	0.134	0.156	9.11
beta-BHC	0.133	0.124	0.128		0.120	0.128	0.120	0.115	0.124	4.94
gamma-BHC	0.144	0.124	0.130		0.126	0.131	0.125	0.118	0.128	6.42
delta-BHC	0.127	0.114	0.114		0.114	0.118	0.113	0.108	0.116	5.25
Heptachlor	0.166	0.148	0.146		0.146	0.151	0.150	0.141	0.150	5.26
Aldrin	0.177	0.169	0.163		0.159	0.158	0.153	0.144	0.160	6.62
Heptachlor Epoxide	0.054	0.055	0.055		0.055	0.057	0.053	0.054	0.055	2.20
Endosulfan I	0.042	0.043	0.041		0.043	0.042	0.039	0.034	0.04	7.62

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.255	0.224	0.235		0.228	0.240	0.228	0.226	0.234	4.58
Dieldrin	0.213	0.215	0.198		0.198	0.201	0.190	0.184	0.200	5.67
Endrin	0.037	0.028	0.032		0.032	0.036	0.038	0.037	0.034	10.3
4,4'-DDD	0.450	0.420	0.421		0.402	0.425	0.397	0.367	0.412	6.38
Endosulfan Sulfate	0.06	0.05	0.052		0.052	0.054	0.052	0.037	0.051	13.2
4,4'-DDT	0.377	0.303	0.312		0.301	0.320	0.321	0.290	0.318	8.99
Endrin Ketone	0.045	0.038	0.044		0.044	0.047	0.043	0.037	0.042	8.88
Methoxychlor	0.807	0.665	0.676		0.695	0.722	0.669	0.561	0.685	10.7
Pyrene	1.50	1.46	1.44	1.44	1.30	1.36	1.41	1.56	1.43	5.51
Butylbenzylphthalate	0.745	0.697	0.682	0.722	0.658	0.695	0.717	0.684	0.700	3.91
Benzo[a]anthracene	1.35	1.24	1.25	1.31	1.20	1.26	1.25	1.24	1.26	3.60
3,3'-Dichlorobenzidine	0.200	0.204	0.190	0.210	0.182	0.172	0.186	0.196	0.193	6.46
Chrysene	1.10	1.03	1.04	1.08	1.02	1.04	1.03	1.01	1.04	2.94
Bis(2-ethylhexyl)phthalate	1.00	0.977	0.936	0.972	0.875	0.910	0.929	0.885	0.935	4.81
4-Terphenyl-d14 (surr)	1.04	0.977	0.984	0.981	0.906	0.949	0.991	1.10	0.991	5.76
Di-n-octylphthalate	2.36	2.21	2.18	2.37	2.22	2.53	2.46	2.23	2.32	5.51
Benzo[b]fluoranthene	1.36	1.30	1.34	1.40	1.30	1.43	1.37	1.33	1.36	3.54
Benzo[k]fluoranthene	1.34	1.24	1.28	1.36	1.26	1.38	1.29	1.14	1.28	5.84
Benzo[a]pyrene	1.08	1.02	1.01	1.08	0.984	1.10	1.08	1.02	1.05	4.02
Indeno(1,2,3-c,d)pyrene	0.600	0.579	0.535	0.576	0.569	0.614	0.639	0.750	0.608	10.8
Dibenzo[a,h]anthracene	0.560	0.492	0.471	0.528	0.502	0.543	0.607	0.708	0.551	13.8
Benzo[g,h,i]perylene	0.629	0.618	0.564	0.637	0.612	0.645	0.656	0.752	0.639	8.37

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 8:15

Lab File ID: 0727602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.286	0.267		6.6	
1,2-Dichlorobenzene	1.23	1.167		4.9	
1,3-Dichlorobenzene	1.32	1.281		3.0	
1,4-Dichlorobenzene	1.35	1.316		2.5	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.984	0.940		4.5	
2,4,5-Trichlorophenol	0.365	0.382		-4.7	
2,4,6-Trichlorophenol	0.360	0.349		3.1	20.0
2,4-Dichlorophenol	0.274	0.267		2.6	20.0
2,4-Dimethylphenol	0.262	0.252		3.8	
2,4-Dinitrophenol	0.115	0.149	0.050	-29.6	
2,4-Dinitrotoluene	0.304	0.314		-3.3	
2,6-Dinitrotoluene	0.246	0.252		-2.4	
2-Chloronaphthalene	0.989	0.965		2.4	
2-Chlorophenol	1.36	1.313		3.3	
2-Methylnaphthalene	0.636	0.604		5.0	
2-Methylphenol	1.11	1.069		4.1	
2-Nitroaniline	0.337	0.343		-1.8	
2-Nitrophenol	0.185	0.170		8.1	20.0
3-, 4-Methylphenol	1.62	1.534		5.4	
3-Nitroaniline	0.063	0.062		1.6	
4,6-Dinitro-2-methylphenol	0.122	0.135		-10.7	
4-bromophenyl phenyl ether	0.219	0.193		11.9	
4-Chloro-3-methylphenol	0.320	0.321		-0.3	20.0
4-Chloroaniline	0.142	0.149		-4.9	
4-Chlorophenyl phenyl ether	0.553	0.527		4.7	
4-Nitroaniline	0.117	0.042#		64.1	
4-Nitrophenol	0.146	0.156	0.050	-6.8	
Acenaphthene	0.884	0.849		4.0	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.29	1.261		2.0	
Aldrin	0.160	0.151		5.6	
alpha-BHC	0.156	0.142		9.0	
Anthracene	0.921	0.897		2.6	
Benzoic Acid	0.152	0.182		-19.7	
Benzo[a]anthracene	1.26	1.178		6.6	
Benzo[a]pyrene	1.05	1.083		-3.5	20.0
Benzo[b]fluoranthene	1.36	1.337		1.3	
Benzo[k]fluoranthene	1.28	1.458		-13.6	
Benzyl Alcohol	0.953	0.916		3.9	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 8:15

Lab File ID: 0727602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.124	0.117		5.6	
Bis(2-chloroethoxy)methane	0.379	0.364		4.0	
Bis(2-chloroethyl)ether	1.409	1.471		-4.4	
Bis(2-chloroisopropyl)ether	1.614	1.577		2.3	
Bis(2-ethylhexyl)phthalate	0.935	0.904		3.3	
Butylbenzylphthalate	0.700	0.724		-3.4	
Carbazole	0.404	0.280		30.7	
Chrysene	1.044	1.012		3.1	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.116	0.114		1.7	
Di-n-Butylphthalate	1.211	1.072		11.5	
Di-n-octylphthalate	2.322	2.708		-16.6	20.0
Dibenzofuran	1.425	1.401		1.7	
Dibenzo[a,h]anthracene	0.551	0.595		-8.0	
Dieldrin	0.200	0.186		7.0	
Diethylphthalate	1.046	1.016		2.9	
Dimethylphthalate	1.144	1.114		2.6	
Diphenylamine	0.408	0.349		14.5	
Endosulfan I	0.040	0.038#		5.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.051	0.046#		9.8	
Endrin	0.034	0.038#		-11.8	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.042	0.033#		21.4	
Fluoranthene	1.007	0.981		2.6	20.0
Fluorene	1.056	1.054		0.2	
gamma-BHC	0.128	0.123		3.9	
Heptachlor	0.150	0.144		4.0	
Heptachlor Epoxide	0.055	0.050#		9.1	
Hexachlorobenzene	0.210	0.182		13.3	
Hexachlorobutadiene	0.176	0.167		5.1	20.0
Hexachlorocyclopentadiene	0.111	0.126	0.050	-13.5	
Hexachloroethane	0.526	0.504		4.2	
Indeno(1,2,3-c,d)pyrene	0.608	0.576		5.3	
Isophorone	0.568	0.541		4.8	
Methoxychlor	0.685	0.541		21.0	
N-Nitrosodi-n-propylamine	0.847	0.841		0.7	
N-Nitrosodimethylamine	0.655	0.738		-12.7	
Naphthalene	0.874	0.837		4.2	
Naphthalene-D8	1.000	1.000		0.0	

Paradigm Analytical Laboratories, INC.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 8:15

Lab File ID: 0727602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.377	0.381		-1.1	
Pentachlorophenol	0.139	0.130		6.5	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.995	0.953		4.2	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.779	1.806		-1.5	20.0
Pyrene	1.433	1.582		-10.4	
Pyridine	0.901	1.154		-28.1	
2,4,6-Tribromophenol	0.118	0.122		-3.4	
2-Fluorobiphenyl	1.13	1.074		4.8	
2-Fluorophenol	1.01	1.023		-1.2	
4-Terphenyl-d14	0.991	1.081		-9.1	
Nitrobenzene-d5	0.141	0.138		2.1	
Phenol-d6	1.60	1.599		0.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.286	0.269		5.9	
1,2-Dichlorobenzene	1.23	1.155		5.9	
1,3-Dichlorobenzene	1.32	1.242		6.0	
1,4-Dichlorobenzene	1.35	1.283		5.0	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.984	0.918		6.7	
2,4,5-Trichlorophenol	0.365	0.390		-6.8	
2,4,6-Trichlorophenol	0.360	0.360		0.0	20.0
2,4-Dichlorophenol	0.274	0.271		1.1	20.0
2,4-Dimethylphenol	0.262	0.260		0.8	
2,4-Dinitrophenol	0.115	0.158	0.050	-37.4	
2,4-Dinitrotoluene	0.304	0.319		-4.9	
2,6-Dinitrotoluene	0.246	0.250		-1.6	
2-Chloronaphthalene	0.989	0.949		4.0	
2-Chlorophenol	1.36	1.291		4.9	
2-Methylnaphthalene	0.636	0.610		4.1	
2-Methylphenol	1.11	1.084		2.8	
2-Nitroaniline	0.337	0.335		0.6	
2-Nitrophenol	0.185	0.174		5.9	20.0
3-, 4-Methylphenol	1.62	1.573		3.0	
3-Nitroaniline	0.063	0.084		-33.3	
4,6-Dinitro-2-methylphenol	0.122	0.143		-17.2	
4-bromophenyl phenyl ether	0.219	0.196		10.5	
4-Chloro-3-methylphenol	0.320	0.330		-3.1	20.0
4-Chloroaniline	0.142	0.159		-12.0	
4-Chlorophenyl phenyl ether	0.553	0.537		2.9	
4-Nitroaniline	0.117	0.132		-12.8	
4-Nitrophenol	0.146	0.189	0.050	-29.5	
Acenaphthene	0.884	0.838		5.2	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.29	1.205		6.4	
Aldrin	0.160	0.152		5.0	
alpha-BHC	0.156	0.138		11.5	
Anthracene	0.921	0.887		3.7	
Benzoic Acid	0.152	0.195		-28.3	
Benzo[a]anthracene	1.26	1.201		4.8	
Benzo[a]pyrene	1.05	1.036		1.0	20.0
Benzo[b]fluoranthene	1.36	1.408		-3.9	
Benzo[k]fluoranthene	1.28	1.334		-3.9	
Benzyl Alcohol	0.953	0.926		2.8	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.124	0.119		4.0	
Bis(2-chloroethoxy)methane	0.379	0.361		4.7	
Bis(2-chloroethyl)ether	1.409	1.325		6.0	
Bis(2-chloroisopropyl)ether	1.614	1.555		3.7	
Bis(2-ethylhexyl)phthalate	0.935	0.915		2.1	
Butylbenzylphthalate	0.700	0.695		0.7	
Carbazole	0.404	0.281		30.4	
Chrysene	1.044	1.005		3.7	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.116	0.112		3.4	
Di-n-Butylphthalate	1.211	1.097		9.4	
Di-n-octylphthalate	2.322	2.780		-19.7	20.0
Dibenzofuran	1.425	1.396		2.0	
Dibenzo[a,h]anthracene	0.551	0.462		16.2	
Dieldrin	0.200	0.188		6.0	
Diethylphthalate	1.046	1.032		1.3	
Dimethylphthalate	1.144	1.110		3.0	
Diphenylamine	0.408	0.327		19.9	
Endosulfan I	0.040	0.038#		5.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.051	0.047#		7.8	
Endrin	0.034	0.032#		5.9	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.042	0.036#		14.3	
Fluoranthene	1.007	0.972		3.5	20.0
Fluorene	1.056	1.053		0.3	
gamma-BHC	0.128	0.119		7.0	
Heptachlor	0.150	0.146		2.7	
Heptachlor Epoxide	0.055	0.050#		9.1	
Hexachlorobenzene	0.210	0.183		12.9	
Hexachlorobutadiene	0.176	0.164		6.8	20.0
Hexachlorocyclopentadiene	0.111	0.157	0.050	-41.4	
Hexachloroethane	0.526	0.509		3.2	
Indeno(1,2,3-c,d)pyrene	0.608	0.490		19.4	
Isophorone	0.568	0.553		2.6	
Methoxychlor	0.685	0.601		12.3	
N-Nitrosodi-n-propylamine	0.847	0.849		-0.2	
N-Nitrosodimethylamine	0.655	0.700		-6.9	
Naphthalene	0.874	0.828		5.3	
Naphthalene-D8	1.000	1.000		0.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.377	0.373		1.1	
Pentachlorophenol	0.139	0.141		-1.4	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.995	0.952		4.3	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.779	1.781		-0.1	20.0
Pyrene	1.433	1.510		-5.4	
Pyridine	0.901	0.893		0.9	
2,4,6-Tribromophenol	0.118	0.128		-8.5	
2-Fluorobiphenyl	1.13	1.058		6.2	
2-Fluorophenol	1.01	1.002		0.9	
4-Terphenyl-d14	0.991	1.022		-3.1	
Nitrobenzene-d5	0.141	0.140		0.7	
Phenol-d6	1.60	1.583		1.0	

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05

Lab File ID (Standard): 0727602.D Time Analyzed: 08:15

Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	178970	6.99	718299	8.91	412687	11.7
	UPPER LIMIT	357940	7.49	1436598	9.41	825374	12.2
	LOWER LIMIT	89485	6.49	359150	8.41	206344	11.2
	EPA SAMPLE						
01	D1-25	142779	6.99	571625	8.91	326900	11.7
02	D1-5	136798	6.99	539738	8.91	305541	11.7
03	D1-15	151957	6.99	592093	8.91	331865	11.7
04	D1-25	142779	6.99	571625	8.91	326900	11.7
05	D2-1	125498	6.99	480168	8.91	259368	11.7
06	D2-5	143072	6.99	544158	8.92	321013	11.7
07	D3-1	132765	6.99	529765	8.92	302418	11.7
08	D3-5	143160	6.99	554969	8.91	298622	11.7
09	D3-15	146148	7	584450	8.92	330077	11.7
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05
Lab File ID (Standard): 0727602.D Time Analyzed: 08:15
Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	627999	14.08	369644	18.33	171013	20.6
	UPPER LIMIT	1255998	14.58	739288	18.83	342026	21.1
	LOWER LIMIT	314000	13.58	184822	17.83	85507	20.1
	EPA SAMPLE						
01	D1-25	496102	14.08	251972	18.32	109377	20.6
02	D1-5	443873	14.08	225898	18.32	107444	20.6
03	D1-15	503953	14.08	265844	18.32	126261	20.6
04	D1-25	496102	14.08	251972	18.32	109377	20.6
05	D2-1	330999	14.08	223297	18.32	107965	20.61
06	D2-5	472305	14.08	185055	18.32	95774	20.6
07	D3-1	454693	14.08	197449	18.32	110751	20.6
08	D3-5	414709	14.08	189356	18.32	96345	20.61
09	D3-15	498996	14.08	206866	18.32	112211	20.6
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05

Lab File ID (Standard): 0727615.D Time Analyzed: 16:58

Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	192305	6.97	771257	8.89	452317	11.67
	UPPER LIMIT	384610	7.47	1542514	9.39	904634	12.17
	LOWER LIMIT	96153	6.47	385629	8.39	226159	11.17
	EPA SAMPLE						
01	LCS3303	159483	6.97	642911	8.89	372595	11.68
02	PB3303	155647	6.97	633710	8.88	362995	11.67
03	G161-2081-3I MS	174022	6.97	697971	8.89	400880	11.68
04	G161-2081-3J MSD	155155	6.97	632636	8.89	353686	11.68
05							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05
Lab File ID (Standard): 0727615.D Time Analyzed: 16:58
Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	699961	14.05	431962	18.3	218159	20.56
	UPPER LIMIT	1399922	14.55	863924	18.8	436318	21.06
	LOWER LIMIT	349981	13.55	215981	17.8	109080	20.06
	EPA SAMPLE						
01	LCS3303	589109	14.06	297395	18.3	156259	20.56
02	PB3303	569404	14.04	307176	18.29	176658	20.56
03	G161-2081-3I MS	647323	14.05	359148	18.3	206583	20.56
04	G161-2081-3J MSD	568299	14.05	285247	18.3	140190	20.56
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: LCS3303

Sample wt/vol: 32 (g) Lab File ID: 0727623.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N Date Analyzed: 07/27/05 21:33

Concentrated Extract Volume: 10000 (µL) Dilution Factor: 1

Injection Volume: 1 (µL) Extraction: (Type) SOXH

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
83-32-9	Acenaphthene	3125	3600	115	78.1-122
208-96-8	Acenaphthylene	3125	4020	129	80.8-137
120-12-7	Anthracene	3125	3700	118	73.3-118
56-55-3	Benzo[a]anthracene	3125	3340	107	55.7-129
50-32-8	Benzo[a]pyrene	3125	3990	128	90.1-135
205-99-2	Benzo[b]fluoranthene	3125	3640	116	71.6-136
191-24-2	Benzo[g,h,i]perylene	3125	3890	124	65.6-140
207-08-9	Benzo[k]fluoranthene	3125	4070	130	85.2-142
65-85-0	Benzoic Acid	3125	2340	75.0	0.00-115
100-51-6	Benzyl Alcohol	3125	3180	102	58.0-125
111-91-1	Bis(2-chloroethoxy)methane	3125	3490	112	74.7-123
111-44-4	Bis(2-chloroethyl)ether	3125	3610	115	69.6-116
108-60-1	Bis(2-chloroisopropyl)ether	3125	3490	112	66.7-123
117-81-7	Bis(2-ethylhexyl)phthalate	3125	3640	117	73.1-133
101-55-3	4-bromophenyl phenyl ether	3125	3210	103	71.0-125
85-68-7	Butylbenzylphthalate	3125	4070	130*	69.7-130
106-47-8	4-Chloroaniline	3125	4730	151	38.6-208
59-50-7	4-Chloro-3-methylphenol	3125	3500	112	83.9-114
91-58-7	2-Chloronaphthalene	3125	3490	112	77.8-120
95-57-8	2-Chlorophenol	3125	3180	102	80.3-109
7005-72-3	4-Chlorophenyl phenyl ether	3125	3530	113	80.8-121
218-01-9	Chrysene	3125	3760	120	80.6-124
84-74-2	Di-n-Butylphthalate	3125	3310	106	72.6-126
117-84-0	Di-n-octylphthalate	3125	3800	121	50.7-172
53-70-3	Dibenzo[a,h]anthracene	3125	3970	127	59.6-146
132-64-9	Dibenzofuran	3125	3280	105	80.3-109
95-50-1	1,2-Dichlorobenzene	3125	3400	109	80.0-121
541-73-1	1,3-Dichlorobenzene	3125	3420	109	75.5-120
106-46-7	1,4-Dichlorobenzene	3125	3410	109	76.2-118
91-94-1	3,3'-Dichlorobenzidine	3125	5600	179	37.4-282
120-83-2	2,4-Dichlorophenol	3125	3330	107	78.3-113
84-66-2	Diethylphthalate	3125	3700	118	77.1-126
105-67-9	2,4-Dimethylphenol	3125	3550	114	83.1-138
131-11-3	Dimethylphthalate	3125	3530	113	74.7-120
534-52-1	4,6-Dinitro-2-methylphenol	3125	3960	127*	45.1-126
51-28-5	2,4-Dinitrophenol	3125	4120	132*	34.9-124
121-14-2	2,4-Dinitrotoluene	3125	3930	126	80.6-126
606-20-2	2,6-Dinitrotoluene	3125	3790	121	76.5-127
206-44-0	Fluoranthene	3125	3550	114	72.8-129
86-73-7	Fluorene	3125	3750	120	82.3-124
118-74-1	Hexachlorobenzene	3125	3160	101	68.4-124

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

)

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) SOIL Lab Sample ID: LCS3303

Sample wt/vol: 32 (g) Lab File ID: 0727623.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N Date Analyzed: 07/27/05 21:33

Concentrated Extract Volume: 10000 (µL) Dilution Factor: 1

Injection Volume: 1 (µL) Extraction: (Type) SOXH

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	3125	3370	108	73.8-119
77-47-4	Hexachlorocyclopentadiene	3125	3140	100	3.76-170
67-72-1	Hexachloroethane	3125	3260	104	73.7-124
193-39-5	Indeno(1,2,3-c,d)pyrene	3125	3770	121	33.0-158
78-59-1	Isophorone	3125	4210	135	71.4-142
90-12-0	1-Methylnaphthalene	3125	3390	108	82.9-117
91-57-6	2-Methylnaphthalene	3125	3130	100	80.7-109
95-48-7	2-Methylphenol	3125	3300	106	82.7-113
108-39-4	4-Methylphenol	6250	5710	91.4	72.0-101
621-64-7	N-Nitrosodi-n-propylamine	3125	4000	128	80.3-131
86-30-6	Diphenylamine	3125	4890	157	79.1-207
91-20-3	Naphthalene	3125	3530	113	77.2-121
88-74-4	2-Nitroaniline	3125	3810	122	75.4-124
99-09-2	3-Nitroaniline	3125	10200	328	105-334
100-01-6	4-Nitroaniline	3125	5610	179*	52.9-174
98-95-3	Nitrobenzene	3125	3610	116	73.6-123
88-75-5	2-Nitrophenol	3125	3190	102	67.0-110
100-02-7	4-Nitrophenol	3125	4740	152*	60.0-129
87-86-5	Pentachlorophenol	3125	3120	99.8	36.4-104
85-01-8	Phenanthrene	3125	3370	108	76.2-117
108-95-2	Phenol	3125	3280	105	74.3-117
129-00-0	Pyrene	3125	4320	138	74.7-140
120-82-1	1,2,4-Trichlorobenzene	3125	3390	108	74.1-120
95-95-4	2,4,5-Trichlorophenol	3125	3500	112*	81.4-111
88-06-2	2,4,6-Trichlorophenol	3125	3360	108	74.8-111

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	88.6
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2081-1I

Reviewed By: RW

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-15
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	08/02/05
Dry Weight	86.3
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	91
Aromatic Surrogate % Recovery	95
Fractionation Surrogate 1 % Recovery	68

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2081-2I

Reviewed By: _____

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-25
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	91.2
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	110

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2081-3K

Reviewed By: RNP

Paradigm Analytical Laboratories, INC.

II

EPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	S1 (COD) #	S2 (OTP) #	S3 (frac) #	QC LIMITS	TOT OUT
01	D1-5	G161-2081-1I	87	85	--	40 - 140	0
02	D1-15	G161-2081-2I	91	95	68	40 - 140	0
03	D1-25	G161-2081-3K	110	110	--	40 - 140	0
04							
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S1 (COD) = Chloro-octadecane
S2 (OTP) = ortho-terphenyl
S3 (frac) = 2-Bromonaphthalene

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3307

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3307 Extraction: (Type) 3540

Matrix: (soil/water) SOIL Date Extracted: 2005-07-27

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	D1-5	G161-2081-1I
02	D1-15	G161-2081-2I
03	D1-25	G161-2081-3K
04	G161-2081-3L MS	G161-2081-3L MS
05	G161-2081-3M MSD	G161-2081-3M MSD
06		
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COMMENTS:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Soil
Date Collected	
Date Received	
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	100
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	110

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation

Lab info: pb3307

Reviewed By: _____

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	7/28/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	LCS3307	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1 0

Compound	Spiked mg/kg	LCS mg/kg	%Rec	%Recovery Limits Lower	Upper
C_9-C_{18} Aliphatics	16.7	12.0	72	40	140
C_{19}-C_{36} Aliphatics	25.0	29.0	116	40	140
C_{11}-C_{22} Aromatics	41.7	44.0	106	40	140

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	8/2/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	QC3307	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Sample mg/kg	MS mg/kg	%Rec	MSD ug/L	%Rec	RPD
C_9-C_{18} Aliphatics	BQL	6	32	22	123	117.5
C_{19}-C_{36} Aliphatics	BQL	37	140	37	138	2.0
C_{11}-C_{22} Aromatics	BQL	45	103	48	107	4.4

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/28/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	16.7
C_{19}-C_{36} Aliphatics	160	-1.6
C_{11}-C_{22} Aromatics	340	-2.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/02/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	17.4
C_{19}-C_{36} Aliphatics	160	4.5
C_{11}-C_{22} Aromatics	340	-7.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	89
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or Internal standards.

Lab Info: g161-2081-1e

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-15
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	86
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or Internal standards.

Lab Info: g161-2081-2e

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-25
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	91
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-3e

Reviewed By: DW

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Dup-4
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	87
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-9e

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Trip Blank
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	100
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-10b

Reviewed By: RNP

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit

RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Paradigm Analytical Laboratories, INC.

II

SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (FID) #	S2 (PID) #	QC LIMITS	TOT OUT
01	D1-5	G161-2081-1E	026F0101.D	110	110	70-130	
02	D1-15	G161-2081-2E	027F0101.D	110	100	70-130	
03	D1-25	G161-2081-3E	028F0101.D	100	100	70-130	
04	Dup-4	G161-2081-9E	029F0101.D	110	100	70-130	
05	Trip Blank	G161-2081-10B	025F0101.D	120	110	70-130	
06							
07							
08							
09							
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42							
43							
44							

S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4072505A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4072505A Lab File ID: 006F0101.D

Date Analyzed: 2005-07-25 Instrument ID: GC4

Time Analyzed: 10:28 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	Trip Blank	G161-2081-10B	025F0101.D	2005-07-25 20:34
02	D1-5	G161-2081-1E	026F0101.D	2005-07-25 21:00
03	D1-15	G161-2081-2E	027F0101.D	2005-07-25 21:25
04	D1-25	G161-2081-3E	028F0101.D	2005-07-25 21:50
05	Dup-4	G161-2081-9E	029F0101.D	2005-07-25 22:15
06				
07				
08				
09				
10				
11				
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36				

COMMENTS:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Soil
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/25/05
Dry Weight	100
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	96

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: vblk4072505a

Reviewed By: hw

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	7/25/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4072505	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Spike mg/kg	LCS mg/kg	Percent Recovery	Recovery Limits Low	High
C_5-C_8 Aliphatics		18			
C_9-C_{12} Aliphatics		9.6			
C_9-C_{10} Aromatics		5.4			
Gasoline	40	33	83	70	130

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	7/25/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC4072505	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Sample mg/kg	MS mg/kg	MSD mg/kg
C_5-C_8 Aliphatics	BQL	18	18
C_9-C_{12} Aliphatics	BQL	9.6	9.1
C_9-C_{10} Aromatics	BQL	5.4	5.7

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	33	83%	33	82%	0.6

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Results for Metals

Client Sample ID:	D2-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:32
Lab Sample ID:	G161-2081-4	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	90.93
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.982	1	MG/KG	6010B	7/26/2005
Barium	**60.9**	9.82	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	0.982	1	MG/KG	6010B	7/26/2005
Chromium	**14.4**	0.982	1	MG/KG	6010B	7/26/2005
Lead	**18.0**	0.982	1	MG/KG	6010B	7/26/2005
Mercury	**0.0249**	0.0207	1	MG/KG	7471	7/29/2005
Selenium	BQL	1.96	1	MG/KG	6010B	7/26/2005
Silver	BQL	0.982	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3 1

Results for Metals

Client Sample ID:	D2-5	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:34
Lab Sample ID:	G161-2081-5	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	77.74
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.17	1	MG/KG	6010B	7/26/2005
Barium	**62.1**	11.7	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.17	1	MG/KG	6010B	7/26/2005
Chromium	**21.2**	1.17	1	MG/KG	6010B	7/26/2005
Lead	**39.7**	1.17	1	MG/KG	6010B	7/26/2005
Mercury	**0.0377**	0.0222	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.34	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.17	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3 1

Results for Metals

Client Sample ID:	D3-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:53
Lab Sample ID:	G161-2081-6	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	76.52
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**1.13**	1.13	1	MG/KG	6010B	7/26/2005
Barium	**112**	11.3	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.13	1	MG/KG	6010B	7/26/2005
Chromium	**11.1**	1.13	1	MG/KG	6010B	7/26/2005
Lead	**9.73**	1.13	1	MG/KG	6010B	7/26/2005
Mercury	**0.0271**	0.0225	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.25	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.13	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: RNP

MET_LIMS_3 1

Results for Metals

Client Sample ID:	D3-5	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:54
Lab Sample ID:	G161-2081-7	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	88.11
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**3.54**	0.996	1	MG/KG	6010B	7/26/2005
Barium	**108**	9.96	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	0.996	1	MG/KG	6010B	7/26/2005
Chromium	**9.49**	0.996	1	MG/KG	6010B	7/26/2005
Lead	**35.4**	0.996	1	MG/KG	6010B	7/26/2005
Mercury	**0.142**	0.0214	1	MG/KG	7471	7/29/2005
Selenium	BQL	1.99	1	MG/KG	6010B	7/26/2005
Silver	BQL	0.996	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3 1

Results for Metals

Client Sample ID:	D3-15	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:59
Lab Sample ID:	G161-2081-8	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	87.85
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.09	1	MG/KG	6010B	7/26/2005
Barium	**59.6**	10.9	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.09	1	MG/KG	6010B	7/26/2005
Chromium	**63.8**	1.09	1	MG/KG	6010B	7/26/2005
Lead	**3.27**	1.09	1	MG/KG	6010B	7/26/2005
Mercury	**0.0296**	0.0223	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.19	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.09	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3 1

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072605b OES Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS REC.
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	
Aluminum	5000	4997	99.9	2500	2472	98.9	2500	2600	104.0	90-110
Antimony	200	200	100.1	500	518	103.6	500	535	107.1	90-110
Arsenic	1000	1053	105.3	500	528	105.6	500	545	109.1	90-110
Barium	5000	4911	98.2	2500	2384	95.4	2500	2521	100.9	90-110
Beryllium	1000	1010	101.0	500	500	99.9	500	521	104.3	90-110
Cadmium	250	245	98.1	500	489	97.7	500	508	101.5	90-110
Calcium	500	5028	1005.7	2500	2466	98.6	2500	2562	102.5	90-110
Chromium	1000	984	98.4	500	486	97.2	500	507	101.4	90-110
Cobalt	1000	981	98.1	500	484	96.8	500	513	102.6	90-110
Copper	1000	1006	100.6	500	485	96.9	500	498	99.7	90-110
Iron	1000	998	99.8	2500	2464	98.6	2500	2551	102.0	90-110
Lead	1000	976	97.6	500	487	97.4	500	513	102.5	90-110
Magnesium	1000	956	95.6	2500	2491	99.7	2500	2595	103.8	90-110
Manganese	1000	1006	100.6	500	492	98.5	500	516	103.2	90-110
Nickel	1000	1006	100.6	500	491	98.2	500	518	103.5	90-110
Potassium	1000	1007	100.7	2500	2516	100.6	2500	2582	103.3	90-110
Selenium	250	243	97.3	500	487	97.5	500	500	99.9	90-110
Silver	100	95	95.3	500	492	98.4	500	507	101.4	90-110
Sodium	5000	5059	101.2	2500	2418	96.7	2500	2488	99.5	90-110
Thallium	200	206	103.1	500	513	102.6	500	537	107.4	90-110
Vanadium	2500	2505	100.2	500	492	98.4	500	513	102.5	90-110
Zinc	1000	1001	100.1	500	489	97.7	500	513	102.7	90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072605b OES Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV (4)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	5000	4997	99.9	2500	2593	103.7	2500	2413	96.5	90-110
Antimony	200	200	100.1	500	540	108.0	500	497	99.4	90-110
Arsenic	1000	1053	105.3	500	535	107.1	500	503	100.7	90-110
Barium	5000	4911	98.2	2500	2532	101.3	2500	2363	94.5	90-110
Beryllium	1000	1010	101.0	500	520	103.9	500	483	96.5	90-110
Cadmium	250	245	98.1	500	506	101.2	500	471	94.1	90-110
Calcium	500	5028	1005.7	2500	2517	100.7	2500	2405	96.2	90-110
Chromium	1000	984	98.4	500	504	100.7	500	473	94.5	90-110
Cobalt	1000	981	98.1	500	514	102.8	500	470	94.1	90-110
Copper	1000	1006	100.6	500	494	98.8	500	462	92.4	90-110
Iron	1000	998	99.8	2500	2537	101.5	2500	2370	94.8	90-110
Lead	1000	976	97.6	500	508	101.6	500	472	94.4	90-110
Magnesium	1000	956	95.6	2500	2578	103.1	2500	2425	97.0	90-110
Manganese	1000	1006	100.6	500	515	103.0	500	479	95.9	90-110
Nickel	1000	1006	100.6	500	517	103.4	500	480	96.0	90-110
Potassium	1000	1007	100.7	2500	2790	111.6	2500	2564	102.5	90-110
Selenium	250	243	97.3	500	508	101.6	500	470	94.0	90-110
Silver	100	95	95.3	500	508	101.7	500	472	94.4	90-110
Sodium	5000	5059	101.2	2500	3648	145.9	2500	3183	127.3	90-110
Thallium	200	206	103.1	500	530	106.0	500	500	100.0	90-110
Vanadium	2500	2505	100.2	500	512	102.5	500	480	95.9	90-110
Zinc	1000	1001	100.1	500	512	102.4	500	474	94.9	90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical

Initial Cal Source Environmental Express

Batch ID: 072605b OES

Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (5)			CCV ( )			LIMITS REC.
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	
Aluminum	5000	4997	99.9	2500	2290	91.6	2500			90-110
Antimony	200	200	100.1	500	464	92.7	500			90-110
Arsenic	1000	1053	105.3	500	461	92.1	500			90-110
Barium	5000	4911	98.2	2500	2221	88.8	2500			90-110
Beryllium	1000	1010	101.0	500	477	95.4	500			90-110
Cadmium	250	245	98.1	500	462	92.4	500			90-110
Calcium	500	5028	1005.7	2500	2211	88.4	2500			90-110
Chromium	1000	984	98.4	500	446	89.3	500			90-110
Cobalt	1000	981	98.1	500	445	89.1	500			90-110
Copper	1000	1006	100.6	500	455	91.0	500			90-110
Iron	1000	998	99.8	2500	2242	89.7	2500			90-110
Lead	1000	976	97.6	500	441	88.1	500			90-110
Magnesium	1000	956	95.6	2500	2261	90.4	2500			90-110
Manganese	1000	1006	100.6	500	448	89.6	500			90-110
Nickel	1000	1006	100.6	500	463	92.7	500			90-110
Potassium	1000	1007	100.7	2500	2321	92.9	2500			90-110
Selenium	250	243	97.3	500	435	86.9	500			90-110
Silver	100	95	95.3	500	455	91.0	500			90-110
Sodium	5000	5059	101.2	2500	2294	91.8	2500			90-110
Thallium	200	206	103.1	500	463	92.6	500			90-110
Vanadium	2500	2505	100.2	500	448	89.7	500			90-110
Zinc	1000	1001	100.1	500	438	87.6	500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072805a Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	2500			2500			2500			90-110
Antimony	500			500			500			90-110
Arsenic	500			500			500			90-110
Barium	2500			2500			2500			90-110
Beryllium	500			500			500			90-110
Cadmium	500			500			500			90-110
Calcium	2500			2500			2500			90-110
Chromium	500			500			500			90-110
Cobalt	500			500			500			90-110
Copper	500			500			500			90-110
Iron	2500			2500			2500			90-110
Lead	500			500			500			90-110
Magnesium	2500			2500			2500			90-110
Manganese	500			500			500			90-110
Mercury	10	10.42	104.2	5	5.27	105.5	5	5.50	109.9	90-110
Nickel	500			500			500			90-110
Potassium	2500			2500			2500			90-110
Selenium	500			500			500			90-110
Silver	500			500			500			90-110
Sodium	2500			2500			2500			90-110
Thallium	500			500			500			90-110
Vanadium	500			500			500			90-110
Zinc	500			500			500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072805a Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV (4)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	2500			2500			2500			90-110
Antimony	500			500			500			90-110
Arsenic	500			500			500			90-110
Barium	2500			2500			2500			90-110
Beryllium	500			500			500			90-110
Cadmium	500			500			500			90-110
Calcium	2500			2500			2500			90-110
Chromium	500			500			500			90-110
Cobalt	500			500			500			90-110
Copper	500			500			500			90-110
Iron	2500			2500			2500			90-110
Lead	500			500			500			90-110
Magnesium	2500			2500			2500			90-110
Manganese	500			500			500			90-110
Mercury	10	10.42	104.2	5	5.47	109.4	5	5.29	105.9	90-110
Nickel	500			500			500			90-110
Potassium	2500			2500			2500			90-110
Selenium	500			500			500			90-110
Silver	500			500			500			90-110
Sodium	2500			2500			2500			90-110
Thallium	500			500			500			90-110
Vanadium	500			500			500			90-110
Zinc	500			500			500			90-110

Comments:

FORM IIA - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072605b OES

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C	4	C		
Aluminum	100	U	100	U	100	U	100	U		
Antimony	40	U	40	U	40	U	40	U		
Arsenic	10	U	10	U	10	U	10	U		
Barium	100	U	100	U	100	U	100	U		
Beryllium	10	U	10	U	10	U	10	U		
Cadmium	5	U	5	U	5	U	5	U		
Calcium	200	U	200	U	200	U	200	U		
Chromium	10	U	10	U	10	U	10	U		
Cobalt	10	U	10	U	10	U	10	U		
Copper	10	U	10	U	10	U	10	U		
Iron	100	U	100	U	100	U	100	U		
Lead	10	U	10	U	10	U	10	U		
Magnesium	200	U	200	U	200	U	200	U		
Manganese	10	U	10	U	10	U	10	U		
Mercury										
Nickel	10	U	10	U	10	U	10	U		
Potassium	200	U	200	U	200	U	200	U		
Selenium	20	U	20	U	20	U	20	U		
Silver	10	U	10	U	10	U	10	U		
Sodium	200	U	200	U	720.53	#	765.43	#		
Thallium	10	U	10	U	10	U	10	U		
Vanadium	50	U	50	U	50	U	50	U		
Zinc	10	U	10	U	10	U	10	U		

Comments:

FORM III - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072605b OES

Analyte	Initial Calib Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	5	C		C		C		
Aluminum	100	U	100	U						
Antimony	40	U	40	U						
Arsenic	10	U	10	U						
Barium	100	U	100	U						
Beryllium	10	U	10	U						
Cadmium	5	U	5	U						
Calcium	200	U	200	U						
Chromium	10	U	10	U						
Cobalt	10	U	10	U						
Copper	10	U	10	U						
Iron	100	U	100	U						
Lead	10	U	10	U						
Magnesium	200	U	200	U						
Manganese	10	U	10	U						
Mercury										
Nickel	10	U	10	U						
Potassium	200	U	200	U						
Selenium	20	U	20	U						
Silver	10	U	10	U						
Sodium	200	U	200	U						
Thallium	10	U	10	U						
Vanadium	50	U	50	U						
Zinc	10	U	10	U						

Comments:

FORM III - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072805a

Analyte	Initial Calib Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C	4	C		
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Mercury	0.2	U	0.2	U	0.2	U	0.2	U		
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Paradigm Analytical ICS Source: Environmental Express

Batch ID: 072605b ICP ID Number: ICP1

Concentration Units: ug/L

Analyte	TRUE Sol. A	TRUE Sol. B	Initial Found Sol. A	Initial Found Sol. B	%R	Final Found Sol. A	Final Found Sol. B	%R
Aluminum	100000	100000	101020	100650	100.6	99698.7	98644.6	98.6
Antimony	0	300	4.43	294.22	98.1	5.94	281.54	93.8
Arsenic	0	300	3.22	305.14	101.7	2.67	289.47	96.5
Barium	0	1000	-2.96	937.35	93.7	-4.1	917.13	91.7
Beryllium	0	300	0.12	288.07	96.0	0.01	283.21	94.4
Cadmium	0	300	-0.63	276.84	92.3	-1.74	266.41	88.8
Calcium	40000	40000	39352.6	39209.5	98.0	39712	38476.2	96.2
Chromium	0	300	0.55	280.43	93.5	0.65	277.78	92.6
Cobalt	0	300	0.79	275.81	91.9	0.07	270.35	90.1
Copper	0	300	1.12	299	99.7	0.52	291.72	97.2
Iron	100000	100000	99269.8	97970	98.0	97738.8	96442.9	96.4
Lead	0	300	-0.58	281.06	93.7	-1.43	276.39	92.1
Magnesium	40000	40000	39151.7	39561.9	98.9	39046.4	38555.5	96.4
Manganese	0	300	0	284.24	94.7	0.6	278.63	92.9
Nickel	0	300	1.12	279.61	93.2	2.6	275.89	92.0
Potassium	0	0	-19.6	-14.08	n/a	-2.12	-23.1	n/a
Selenium	0	300	-1.06	288.4	96.1	5.63	275.86	92.0
Silver	0	300	-2.09	279.79	93.3	-2.7	276.75	92.3
Sodium	0	0	-114.27	-120.46	n/a	-22.2	-60.24	n/a
Thallium	0	300	-9.47	277.96	92.7	-10.17	272.22	90.7
Vanadium	0	300	-1.81	286.63	95.5	-4.84	283.45	94.5
Zinc	0	300	18.5	304.02	101.3	15.94	297.03	99.0

FORM IV - METALS

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3300	Date Received:	
Lab Project ID:		Matrix:	SOIL
Batch ID:	3300	Solids	100.00
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.00	1	MG/KG	6010B	7/26/2005
Barium	BQL	10.0	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.00	1	MG/KG	6010B	7/26/2005
Chromium	BQL	1.00	1	MG/KG	6010B	7/26/2005
Lead	BQL	1.00	1	MG/KG	6010B	7/27/2005
Selenium	BQL	2.00	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.00	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3 1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3327	Date Received:	
Lab Project ID:		Matrix:	SOIL
Batch ID:	3327	Solids	100.00
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.0200	1	MG/KG	7471	7/29/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

MS/MSD Results for METALS

Lab ID: G161-2048-16
MS Lab ID: G161-2048-16
MSD Lab ID: G161-2048-16
ICP Batch: 3300
HG Batch:
Other:

Analyzed By: PSW
Matrix: Soil
Units: MG/KG
Solids: 92.69

Analyte	Sample Result	SA MS	MS Result	MS %REC		SA MSD	MSD Result	MSD %REC		Limit Lower	Limit Upper	RPD		RPD Limit
Arsenic	6.91	41.5	39.5	78.5		41.5	38.9	77.1		75	125	1.53		20
Barium	67.2	207	305	115		207	299	112		75	125	1.99		20
Cadmium	BQL	41.5	36.3	87.5		41.5	36.4	87.7		75	125	0.275		20
Chromium	30.5	41.5	66.9	87.7		41.5	56.6	62.9	*	75	125	16.7		20
Lead	50	41.5	99.3	119		41.5	108	140	*	75	125	8.39		20
Selenium	BQL	41.5	33.7	81.2		41.5	33.8	81.4		75	125	0.296		20
Silver	BQL	41.5	38.0	91.6		41.5	37.9	91.3		75	125	0.264		20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G161-2081-4
MS Lab ID: G161-2081-4
MSD Lab ID: G161-2081-4
ICP Batch:
HG Batch: 3327
Other:

Analyzed By: RML
Matrix: Soil
Units: MG/KG
Solids: 90.93

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Mercury	0.024	0.539	0.594	106	0.550	0.621	109	75	125	4.44	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: _____

METALS Results for LCS/LCD

ICP Batch: 3300
HG Batch: 3327
Other:

Matrix: SOIL
Units: MG/KG

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	40.0	36.9	92.2	37.5	93.8	80	120	1.61	20
Barium	200	181	90.5	185	92.5	80	120	2.19	20
Cadmium	40.0	34.5	86.2	35.5	88.8	80	120	2.86	20
Chromium	40.0	36.7	91.8	37.0	92.5	80	120	0.814	20
Lead	40.0	36.8	92.0	37.3	93.3	80	120	1.35	20
Mercury	0.500	0.503	101	0.517	103	80	120	2.75	20
Selenium	40.0	32.1	80.2	32.4	81.0	80	120	0.930	20
Silver	40.0	36	90.0	36.7	91.8	80	120	1.93	20

Reviewed By: _____

5035 Sample Raw Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728309.D Vial: 9
Acq On : 28 Jul 2005 12:08 pm Operator: JTF
Sample : g161-2081-1a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 12:33 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

07/28/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.06	96	1747644	50.00	ppb	0.00
39) bromochloropropane	11.28	79	208988	50.00	ppb	-0.02
53) chlorobenzene-d5	13.11	117	1172457	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	707783	82.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	164.86%	
33) toluene-d8	10.66	98	1313384	52.89	ppb	0.00
Spiked Amount 50.000			Recovery	=	105.78%	
49) 4-bromofluorobenzene	15.20	95	669767	58.39	ppb	0.00
Spiked Amount 50.000			Recovery	=	116.78%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.72	85	2303	0.07	ppb	# 41
5) bromomethane	2.40	94	600	Below Cal		# 1
7) trichlorofluoromethane	2.81	101	10273	0.31	ppb	86
9) 1,1-dichloroethene	3.44	96	799	0.04	ppb	# 1
10) acetone	3.55	43	51599	Below Cal		# 69
11) methylene chloride	4.17	84	22308	1.59	ppb	# 75
13) acrylonitrile	4.55	53	684	5.35	ppb	# 1
17) 2-butanone	6.26	43	7455	0.55	ppb	# 52
24) benzene	7.59	78	22802	0.26	ppb	96
32) 4-methyl-2-pentanone	10.51	43	758	0.04	ppb	# 43
34) toluene	10.77	92	12162	0.26	ppb	# 62
36) trans-1,3-dichloropropene	11.28	75	13221	0.76	ppb	# 56
38) Carbon disulfide	3.74	76	6443	0.09	ppb	# 1
42) 1,3-dichloropropane	11.75	76	639	0.03	ppb	# 44
43) 2-hexanone	11.93	43	1699	0.09	ppb	# 29
46) chlorobenzene	13.15	112	4400	0.10	ppb	# 40
50) bromobenzene	15.44	156	1490	0.12	ppb	# 44
54) ethylbenzene	13.38	91	6543	0.06	ppb	# 47
55) m/p-xylene	13.59	106	6143	0.18	ppb	94
56) styrene	14.31	104	2822	0.07	ppb	100
59) n-propyl benzene	15.68	91	5180	0.04	ppb	# 59
61) 4-chlorotoluene	16.01	126	794	0.05	ppb	# 1
62) 1,3,5-trimethylbenzene	16.02	105	2381	0.03	ppb	# 33
64) 1,2,4-trimethylbenzene	16.69	105	7656	0.12	ppb	# 80
65) sec-butylbenzene	17.00	105	620	0.01	ppb	# 65
66) 1,3-dichlorobenzene	17.15	146	4338	0.18	ppb	# 37
67) 4-isopropyltoluene	17.26	119	2690	0.04	ppb	# 51
68) 1,4-dichlorobenzene	17.15	146	4338	0.18	ppb	# 37
69) 1,2-dichlorobenzene	17.98	146	3618	0.19	ppb	# 22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728309.D Vial: 9
Acq On : 28 Jul 2005 12:08 pm Operator: JTF
Sample : g161-2081-1a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 12:33 2005 Quant Results File: 8260SSC.RES

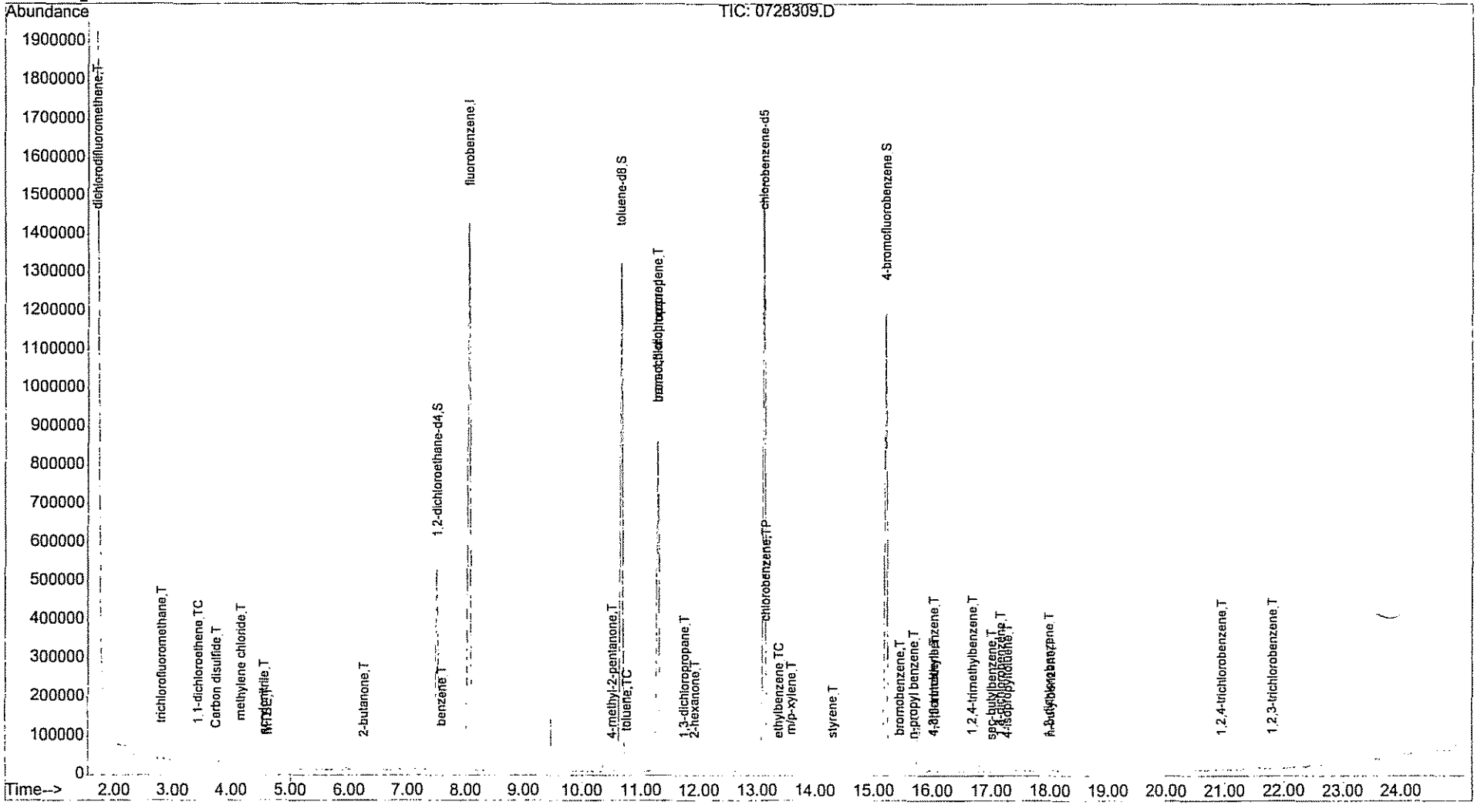
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70) n-butylbenzene	18.02	91	5674	0.07	ppb	#	60
72) 1,2,4-trichlorobenzene	20.94	180	3358	0.31	ppb		88
74) naphthalene	21.38	128	9471	Below	Cal		100
76) 1,2,3-trichlorobenzene	21.81	180	633	0.08	ppb	#	3
77) MTBE	4.63	73	758	0.02	ppb	#	52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728309.D Vial: 9
Acq On : 28 Jul 2005 12:08 pm Operator: JTF
Sample : g161-2081-1a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 12:33 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728310.D Vial: 10
Acq On : 28 Jul 2005 12:39 pm Operator: JTF
Sample : g161-2081-2a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 13:04 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.06	96	1614959	50.00	ppb	0.00
39) bromochloropropane	11.28	79	192239	50.00	ppb	-0.02
53) chlorobenzene-d5	13.12	117	1081371	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	670269	84.48	ppb	-0.02
Spiked Amount 50.000			Recovery	=	168.96%	
33) toluene-d8	10.66	98	1226180	53.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	106.86%	
49) 4-bromofluorobenzene	15.20	95	605321	57.37	ppb	0.00
Spiked Amount 50.000			Recovery	=	114.74%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.71	85	1049	~~0.03~~	ppb	#	41
7) trichlorofluoromethane	2.80	101	14089	~~0.46~~	ppb		98
10) acetone	3.54	43	97136	4.04	ppb	#	71
11) methylene chloride	4.18	84	3584	~~0.28~~	ppb	#	62
13) acrylonitrile	4.54	53	731	~~5.39~~	ppb	#	1
17) 2-butanone	6.25	43	19324	1.55	ppb	#	62
24) benzene	7.60	78	22934	~~0.29~~	ppb		97
32) 4-methyl-2-pentanone	10.65	43	8006	0.43	ppb	#	1
34) toluene	10.77	92	5712	0.13	ppb	#	35
36) trans-1,3-dichloropropene	11.28	75	12775	0.79	ppb	#	56
38) Carbon disulfide	3.74	76	36946	0.59	ppb	#	93
43) 2-hexanone	11.93	43	721	0.04	ppb	#	29
46) chlorobenzene	13.17	112	3265	0.08	ppb	#	70
50) bromobenzene	15.44	156	1280	0.11	ppb	#	33
54) ethylbenzene	13.38	91	5619	0.06	ppb	#	47
55) m/p-xylene	13.59	106	4305	0.14	ppb		75
56) styrene	14.30	104	1619	0.04	ppb		100
59) n-propyl benzene	15.69	91	7976	0.07	ppb	#	59
62) 1,3,5-trimethylbenzene	16.01	105	2052	0.03	ppb	#	33
64) 1,2,4-trimethylbenzene	16.68	105	8073	0.13	ppb	#	76
65) sec-butylbenzene	16.98	105	852	0.01	ppb	#	65
66) 1,3-dichlorobenzene	17.17	146	4753	0.21	ppb	#	66
67) 4-isopropyltoluene	17.29	119	2126	0.03	ppb	#	51
68) 1,4-dichlorobenzene	17.17	146	4753	0.21	ppb	#	66
69) 1,2-dichlorobenzene	17.99	146	1585	0.09	ppb	#	53
70) n-butylbenzene	18.03	91	7048	0.10	ppb	#	60
72) 1,2,4-trichlorobenzene	20.95	180	3848	0.39	ppb	#	4
74) naphthalene	21.39	128	7522	Below Cal			100
77) MTBE	4.63	73	3003	0.09	ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728310.D Vial: 10
Acq On : 28 Jul 2005 12:39 pm Operator: JTF
Sample : g161-2081-2a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 13:04 2005 Quant Results File: 8260SSC.RES

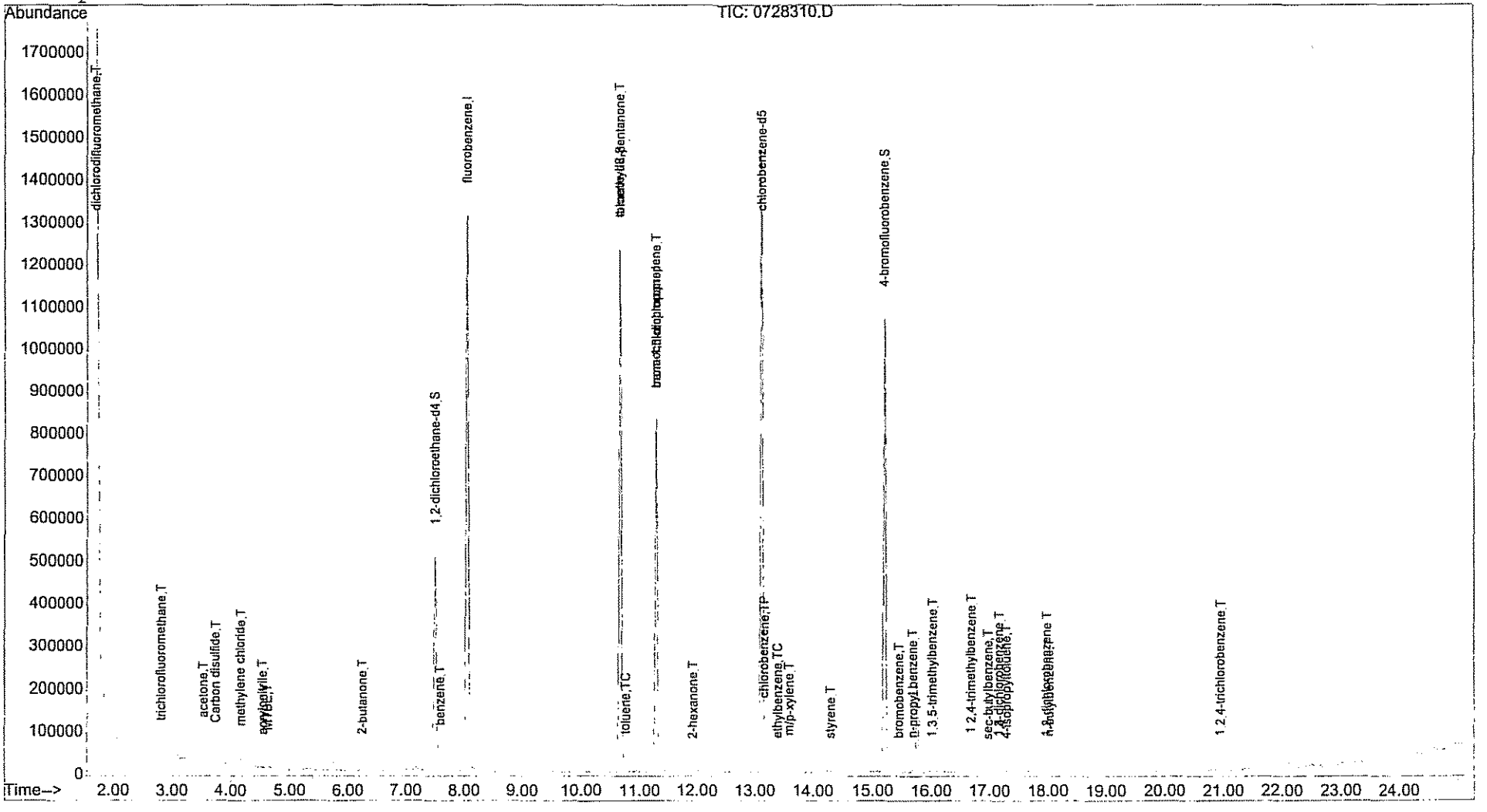
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728310.D Vial: 10
Acq On : 28 Jul 2005 12:39 pm Operator: JTF
Sample : g161-2081-2a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 13:04 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729308.D Vial: 8
Acq On : 29 Jul 2005 11:42 am Operator: JTF
Sample : g161-2081-3a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:07 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.04	96	2198191	50.00 ppb	-0.02
39) bromochloropropane	11.27	79	214994	50.00 ppb	-0.03
53) chlorobenzene-d5	13.10	117	1301082	50.00 ppb	-0.03
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.49	65	648709	60.07 ppb	-0.03
Spiked Amount 50.000			Recovery	= 120.14%	
33) toluene-d8	10.65	98	1580360	50.59 ppb	-0.02
Spiked Amount 50.000			Recovery	= 101.18%	
49) 4-bromofluorobenzene	15.19	95	691253	58.58 ppb	-0.02
Spiked Amount 50.000			Recovery	= 117.16%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.70	85	636	0.02 ppb	#	41
3) chloromethane	1.89	50	3679	0.11 ppb	#	48
4) vinyl chloride	2.04	62	2102	0.05 ppb	#	43
5) bromomethane	2.37	94	903	Below Cal	#	1
7) trichlorofluoromethane	2.79	101	666	0.02 ppb	#	17
8) acrolein	3.27	56	1786	1.79 ppb		84
9) 1,1-dichloroethene	3.44	96	848	0.04 ppb	#	1
10) acetone	3.56	43	18535	Below Cal	#	46
11) methylene chloride	4.16	84	18759	1.07 ppb	#	64
12) trans-1,2-dichloroethene	4.61	96	606	0.02 ppb	#	1
13) acrylonitrile	4.57	53	3317	6.06 ppb	#	59
15) 2,2-dichloropropane	6.11	77	731	0.02 ppb	#	58
16) cis-1,2-dichloroethene	6.19	96	701	0.03 ppb	#	1
17) 2-butanone	6.26	43	4408	0.26 ppb	#	52
19) chloroform	6.72	83	774	0.02 ppb	#	19
22) 1,1-dichloropropene	7.26	75	803	0.02 ppb	#	44
24) benzene	7.59	78	26281	0.24 ppb		97
32) 4-methyl-2-pentanone	10.51	43	2470	0.10 ppb	#	43
34) toluene	10.77	92	7645	0.13 ppb	#	42
36) trans-1,3-dichloropropene	11.16	75	843	0.04 ppb	#	56
38) Carbon disulfide	3.73	76	5760	0.07 ppb	#	1
42) 1,3-dichloropropane	11.73	76	654	0.03 ppb	#	44
43) 2-hexanone	11.93	43	3766	0.20 ppb	#	52
46) chlorobenzene	13.15	112	8458	0.19 ppb	#	67
50) bromobenzene	15.43	156	3369	0.26 ppb		92
54) ethylbenzene	13.35	91	9482	0.08 ppb	#	47
55) m/p-xylene	13.59	106	6884	0.18 ppb	#	68
56) styrene	14.30	104	6244	0.14 ppb		100
57) o-xylene	14.28	106	659	0.02 ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729308.D Vial: 8
Acq On : 29 Jul 2005 11:42 am Operator: JTF
Sample : g161-2081-3a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:07 2005 Quant Results File: 8260SSC.RES

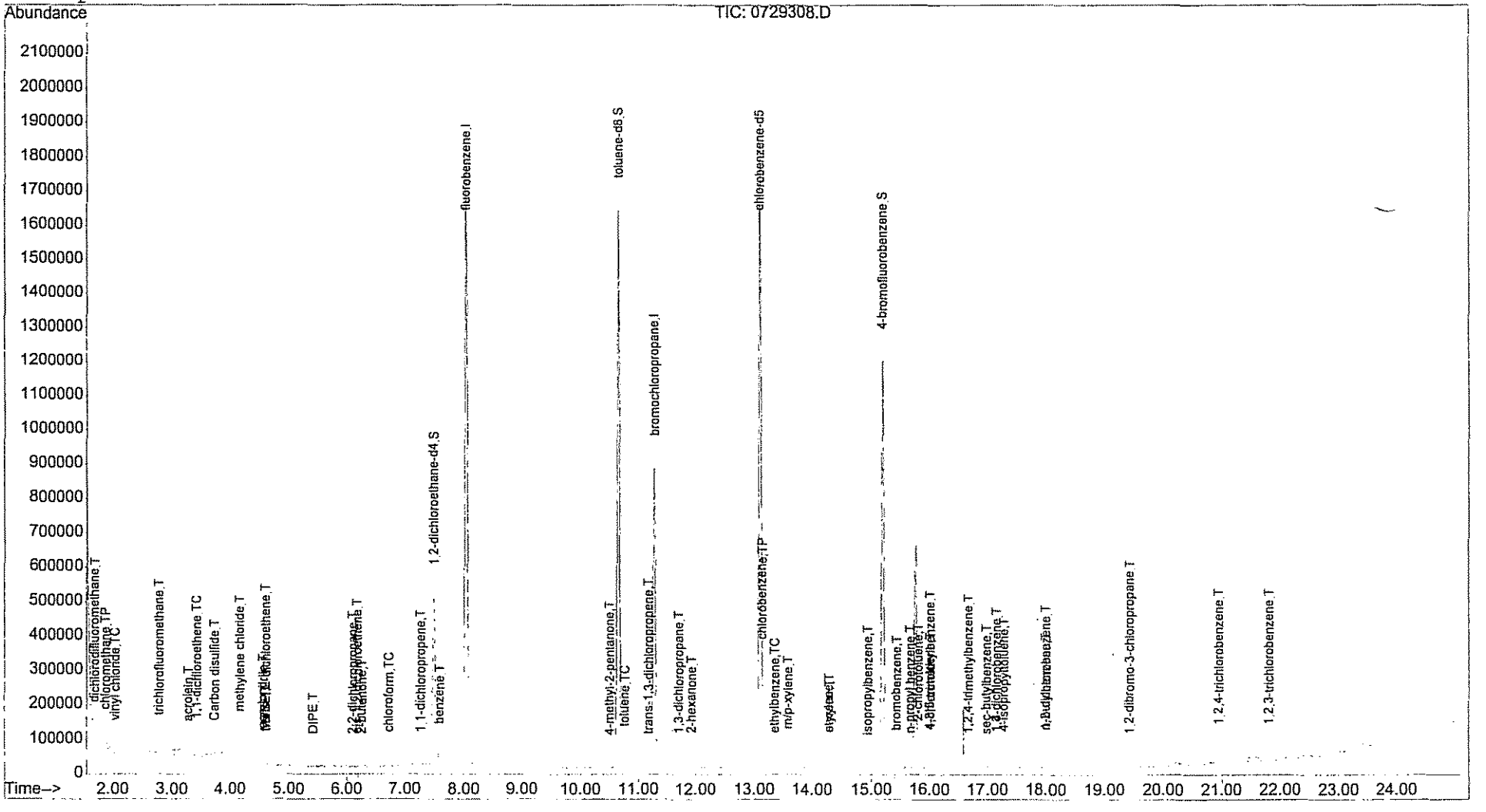
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
58) isopropylbenzene	14.93	105	2152	0.02	ppb	#	53
59) n-propyl benzene	15.68	91	12538	0.10	ppb	#	59
60) 2-chlorotoluene	15.81	126	2587	0.15	ppb	#	73
61) 4-chlorotoluene	16.00	126	3618	0.22	ppb	#	68
62) 1,3,5-trimethylbenzene	15.99	105	4478	0.06	ppb	#	33
64) 1,2,4-trimethylbenzene	16.68	105	9883	0.14	ppb	#	80
65) sec-butylbenzene	16.98	105	3072	0.03	ppb	#	65
66) 1,3-dichlorobenzene	17.16	146	9303	0.34	ppb	#	68
67) 4-isopropyltoluene	17.27	119	5290	0.07	ppb	#	51
68) 1,4-dichlorobenzene	17.16	146	9303	0.34	ppb	#	68
69) 1,2-dichlorobenzene	17.99	146	5419	0.25	ppb	#	87
70) n-butylbenzene	18.00	91	11405	0.13	ppb	#	90
71) 1,2-dibromo-3-chloropropan	19.42	75	1266	0.67	ppb	#	13
72) 1,2,4-trichlorobenzene	20.94	180	7897	0.66	ppb		91
74) naphthalene	21.38	128	16636	Below	Cal		100
76) 1,2,3-trichlorobenzene	21.82	180	1798	0.20	ppb		92
77) MTBE	4.61	73	4039	0.10	ppb	#	52
78) DIPE	5.42	45	720	0.01	ppb	#	36

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729308.D Vial: 8
Acq On : 29 Jul 2005 11:42 am Operator: JTF
Sample : g161-2081-3a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:07 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729309.D Vial: 9
Acq On : 29 Jul 2005 12:13 pm Operator: JTF
Sample : g161-2081-4a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:38 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

8/1/05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.04	96	2038627	50.00 ppb	-0.02
39) bromochloropropane	11.27	79	192210	50.00 ppb	-0.03
53) chlorobenzene-d5	13.10	117	1231719	50.00 ppb	-0.03
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.49	65	620672	61.97 ppb	-0.03
Spiked Amount 50.000			Recovery	= 123.94%	
33) toluene-d8	10.65	98	1486285	51.30 ppb	-0.02
Spiked Amount 50.000			Recovery	= 102.60%	
49) 4-bromofluorobenzene	15.19	95	645322	61.17 ppb	-0.02
Spiked Amount 50.000			Recovery	= 122.34%	
Target Compounds					Qvalue
3) chloromethane	1.90	50	736	0.02 ppb	# 48
5) bromomethane	2.37	94	1448	Below Cal	# 1
8) acrolein	3.33	56	1123	~~1.21~~ ppb	# 1
9) 1,1-dichloroethene	3.42	96	709	0.03 ppb	# 1
10) acetone	3.55	43	16777	Below Cal	# 46
11) methylene chloride	4.16	84	19734	1.21 ppb	# 79
13) acrylonitrile	4.53	53	787	~~5.35~~ ppb	# 52
15) 2,2-dichloropropane	6.19	77	709	0.02 ppb	# 58
16) cis-1,2-dichloroethene	6.16	96	706	0.03 ppb	# 1
17) 2-butanone	6.24	43	1517	0.10 ppb	# 52
22) 1,1-dichloropropene	7.07	75	619	0.02 ppb	# 44
24) benzene	7.58	78	19333	0.19 ppb	# 84
27) 1,2-dichloropropane	8.85	63	622	0.03 ppb	# 89
32) 4-methyl-2-pentanone	10.58	43	655	0.03 ppb	# 43
34) toluene	10.76	92	7371	0.13 ppb	85
36) trans-1,3-dichloropropene	11.27	75	14367	0.71 ppb	# 56
38) Carbon disulfide	3.74	76	4978	0.06 ppb	# 77
43) 2-hexanone	11.92	43	4473	0.26 ppb	# 46
46) chlorobenzene	13.15	112	6438	0.16 ppb	# 87
50) bromobenzene	15.42	156	2299	0.20 ppb	# 78
54) ethylbenzene	13.37	91	6911	0.07 ppb	# 70
55) m/p-xylene	13.57	106	4798	0.13 ppb	# 20
56) styrene	14.30	104	3436	0.08 ppb	100
58) isopropylbenzene	14.94	105	1685	0.02 ppb	# 53
59) n-propyl benzene	15.67	91	10272	0.08 ppb	# 72
60) 2-chlorotoluene	15.75	126	653	0.04 ppb	# 1
61) 4-chlorotoluene	15.99	126	777	0.05 ppb	# 1
62) 1,3,5-trimethylbenzene	16.02	105	2160	0.03 ppb	97
64) 1,2,4-trimethylbenzene	16.68	105	6365	0.09 ppb	# 34

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729309.D Vial: 9
Acq On : 29 Jul 2005 12:13 pm Operator: JTF
Sample : g161-2081-4a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:38 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

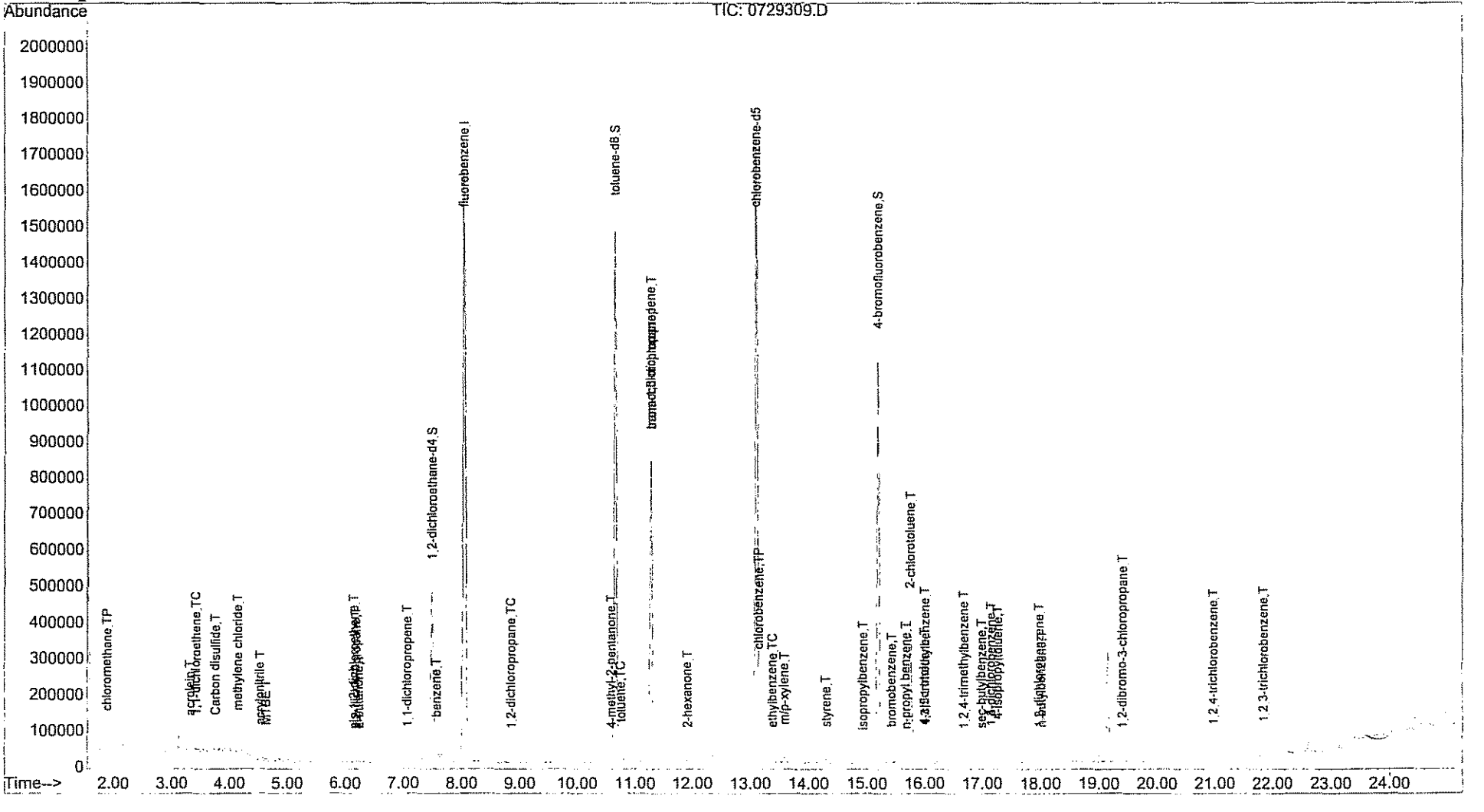
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
65)	sec-butylbenzene	16.98	105	2382	0.02	ppb	#	65
66)	1,3-dichlorobenzene	17.15	146	9410	0.36	ppb	#	81
67)	4-isopropyltoluene	17.28	119	3977	0.05	ppb	#	51
68)	1,4-dichlorobenzene	17.15	146	9410	0.36	ppb	#	81
69)	1,2-dichlorobenzene	17.98	146	5892	0.29	ppb	#	87
70)	n-butylbenzene	18.02	91	10422	0.12	ppb	#	60
71)	1,2-dibromo-3-chloropropan	19.40	75	748	0.42	ppb	#	13
72)	1,2,4-trichlorobenzene	20.95	180	6092	0.54	ppb	#	57
74)	naphthalene	21.38	128	14013	Below Cal			100
76)	1,2,3-trichlorobenzene	21.82	180	2990	0.34	ppb		86
77)	MTBE	4.64	73	2862	0.07	ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3072905\0729309.D Vial: 9
Acq On : 29 Jul 2005 12:13 pm Operator: JTF
Sample : g161-2081-4a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:38 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729310.D Vial: 10
Acq On : 29 Jul 2005 12:45 pm Operator: JTF
Sample : g161-2081-5a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 13:10 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.04	96	1846431	50.00	ppb	-0.02
39) bromochloropropane	11.26	79	200327	50.00	ppb	-0.04
53) chlorobenzene-d5	13.10	117	1117885	50.00	ppb	-0.03
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.49	65	635337	70.04	ppb	-0.03
Spiked Amount 50.000			Recovery	=	140.08%	
33) toluene-d8	10.65	98	1369408	52.19	ppb	-0.02
Spiked Amount 50.000			Recovery	=	104.38%	
49) 4-bromofluorobenzene	15.19	95	611018	55.57	ppb	-0.02
Spiked Amount 50.000			Recovery	=	111.14%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.71	85	689	0.02	ppb #	41
3) chloromethane	1.89	50	832	0.03	ppb #	48
4) vinyl chloride	2.01	62	593	0.02	ppb #	1
5) bromomethane	2.31	94	655	Below Cal	#	1
8) acrolein	3.30	56	2539	~~3.03~~	ppb #	1
9) 1,1-dichloroethene	3.54	96	783	0.04	ppb #	1
10) acetone	3.52	43	16004	Below Cal	#	46
11) methylene chloride	4.17	84	19461	1.32	ppb #	64
13) acrylonitrile	4.56	53	1382	~~5.58~~	ppb #	1
15) 2,2-dichloropropane	6.06	77	606	0.02	ppb #	58
17) 2-butanone	6.25	43	2154	0.15	ppb #	52
24) benzene	7.58	78	17574	0.19	ppb	99
32) 4-methyl-2-pentanone	10.50	43	761	0.04	ppb #	43
34) toluene	10.77	92	7757	0.15	ppb	90
36) trans-1,3-dichloropropene	11.16	75	826	0.04	ppb #	56
38) Carbon disulfide	3.75	76	2440	0.03	ppb #	1
42) 1,3-dichloropropane	11.73	76	611	0.03	ppb #	44
43) 2-hexanone	11.93	43	2445	0.14	ppb #	29
46) chlorobenzene	13.15	112	5140	0.12	ppb #	65
50) bromobenzene	15.44	156	2010	0.17	ppb #	16
54) ethylbenzene	13.35	91	5243	0.05	ppb #	47
55) m/p-xylene	13.58	106	4235	0.13	ppb #	43
56) styrene	14.30	104	3362	0.08	ppb	100
58) isopropylbenzene	14.93	105	1415	0.02	ppb #	53
59) n-propyl benzene	15.68	91	8298	0.08	ppb #	59
60) 2-chlorotoluene	15.76	126	1213	0.08	ppb #	52
61) 4-chlorotoluene	16.02	126	1248	0.09	ppb #	1
62) 1,3,5-trimethylbenzene	16.01	105	2651	0.04	ppb #	33
64) 1,2,4-trimethylbenzene	16.69	105	6070	0.10	ppb #	49

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729310.D Vial: 10
Acq On : 29 Jul 2005 12:45 pm Operator: JTF
Sample : g161-2081-5a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 13:10 2005 Quant Results File: 8260SSC.RES

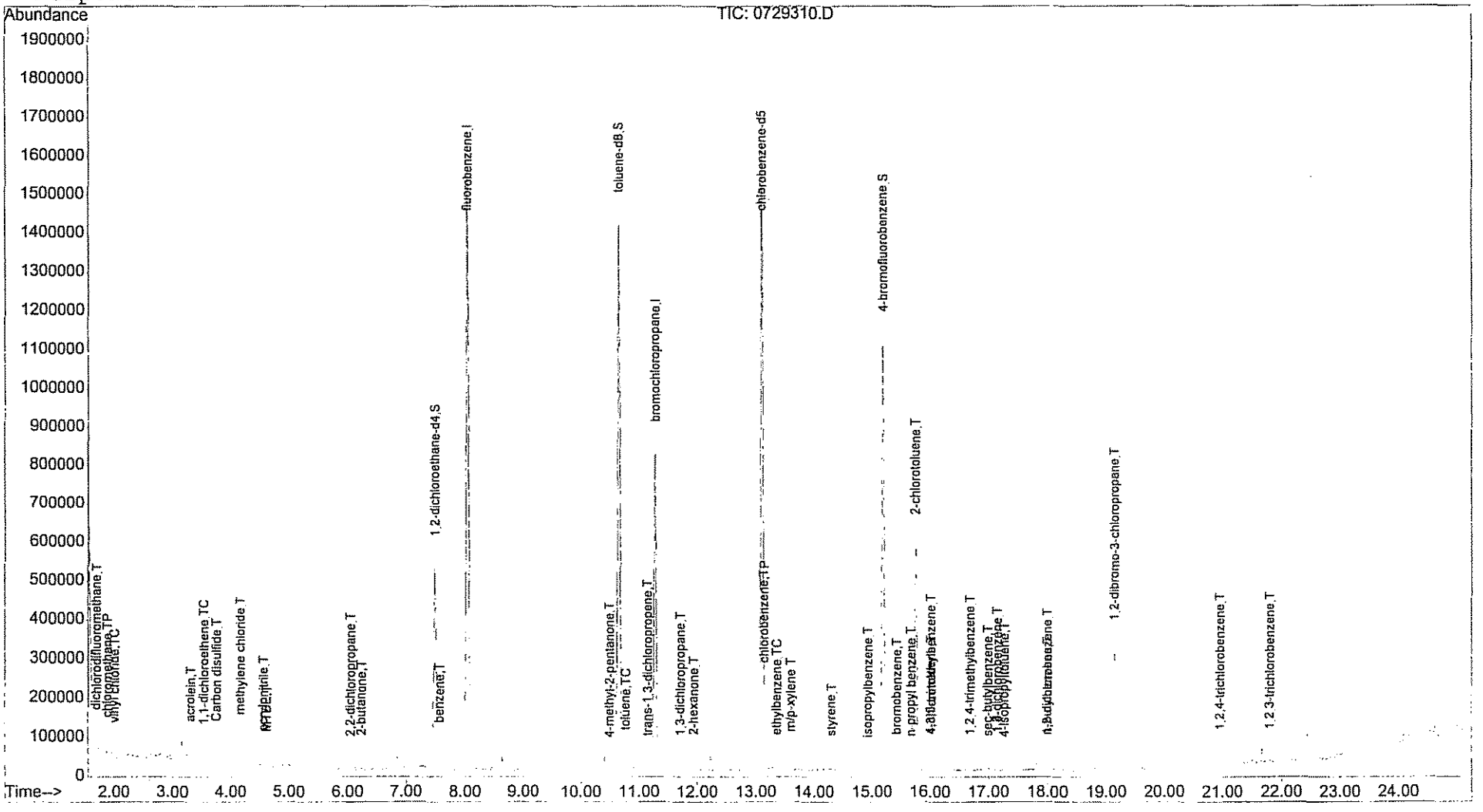
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
65)	sec-butylbenzene	16.99	105	636	0.01 ppb	#	65
66)	1,3-dichlorobenzene	17.15	146	5443	0.23 ppb	#	75
67)	4-isopropyltoluene	17.27	119	2252	0.03 ppb	#	51
68)	1,4-dichlorobenzene	17.15	146	5443	0.23 ppb	#	75
69)	1,2-dichlorobenzene	17.99	146	1756	0.10 ppb	#	62
70)	n-butylbenzene	18.01	91	6777	0.09 ppb	#	1
71)	1,2-dibromo-3-chloropropan	19.14	75	20620	~~12.61 ppb~~	#	13
72)	1,2,4-trichlorobenzene	20.94	180	5052	0.49 ppb		87
74)	naphthalene	21.38	128	10491	Below Cal		100
76)	1,2,3-trichlorobenzene	21.79	180	647	0.08 ppb	#	3
77)	MTBE	4.63	73	3059	0.09 ppb	#	52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729310.D Vial: 10
Acq On : 29 Jul 2005 12:45 pm Operator: JTF
Sample : g161-2081-5a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 13:10 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728314.D Vial: 14
Acq On : 28 Jul 2005 2:50 pm Operator: JTF
Sample : g161-2081-6a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:15 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.05	96	1588487	50.00 ppb	0.00
39) bromochloropropane	11.29	79	159082	50.00 ppb	-0.01
53) chlorobenzene-d5	13.11	117	977140	50.00 ppb	-0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.50	65	574188	73.57 ppb	-0.01
Spiked Amount 50.000			Recovery	= 147.14%	
33) toluene-d8	10.67	98	1164092	51.57 ppb	0.00
Spiked Amount 50.000			Recovery	= 103.14%	
49) 4-bromofluorobenzene	15.20	95	518143	59.34 ppb	0.00
Spiked Amount 50.000			Recovery	= 118.68%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.71	85	744	0.02 ppb	#	41
3) chloromethane	1.92	50	670	0.03 ppb	#	48
4) vinyl chloride	2.02	62	1389	0.05 ppb	#	43
5) bromomethane	2.36	94	593	Below Cal	#	1
9) 1,1-dichloroethene	3.49	96	724	0.04 ppb	#	1
10) acetone	3.55	43	22652	Below Cal	#	46
11) methylene chloride	4.17	84	3515	0.28 ppb		87
13) acrylonitrile	4.46	53	599	5.34 ppb	#	10
17) 2-butanone	6.28	43	2172	0.18 ppb	#	52
24) benzene	7.60	78	11509	0.15 ppb	#	51
32) 4-methyl-2-pentanone	10.67	43	9493	0.52 ppb	#	1
34) toluene	10.78	92	921	0.02 ppb	#	28
36) trans-1,3-dichloropropene	11.29	75	14098	0.89 ppb	#	56
38) Carbon disulfide	3.74	76	4170	0.07 ppb	#	76
43) 2-hexanone	11.94	43	696	0.05 ppb	#	29
46) chlorobenzene	13.16	112	1492	0.04 ppb	#	25
54) ethylbenzene	13.38	91	3429	0.04 ppb	#	47
55) m/p-xylene	13.58	106	1521	0.05 ppb	#	1
59) n-propyl benzene	15.67	91	4385	0.05 ppb	#	59
62) 1,3,5-trimethylbenzene	16.03	105	639	0.01 ppb	#	33
64) 1,2,4-trimethylbenzene	16.69	105	2326	0.04 ppb	#	34
65) sec-butylbenzene	16.69	105	2326	0.03 ppb	#	65
66) 1,3-dichlorobenzene	17.16	146	2677	0.13 ppb	#	23
68) 1,4-dichlorobenzene	17.16	146	2677	0.13 ppb	#	23
69) 1,2-dichlorobenzene	17.98	146	912	0.06 ppb	#	22
70) n-butylbenzene	18.04	91	2381	0.04 ppb	#	60
71) 1,2-dibromo-3-chloropropan	19.14	75	10523	7.36 ppb	#	13
72) 1,2,4-trichlorobenzene	20.94	180	1308	0.14 ppb	#	4
74) naphthalene	21.37	128	5481	Below Cal		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728314.D Vial: 14
Acq On : 28 Jul 2005 2:50 pm Operator: JTF
Sample : g161-2081-6a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:15 2005 Quant Results File: 8260SSC.RES

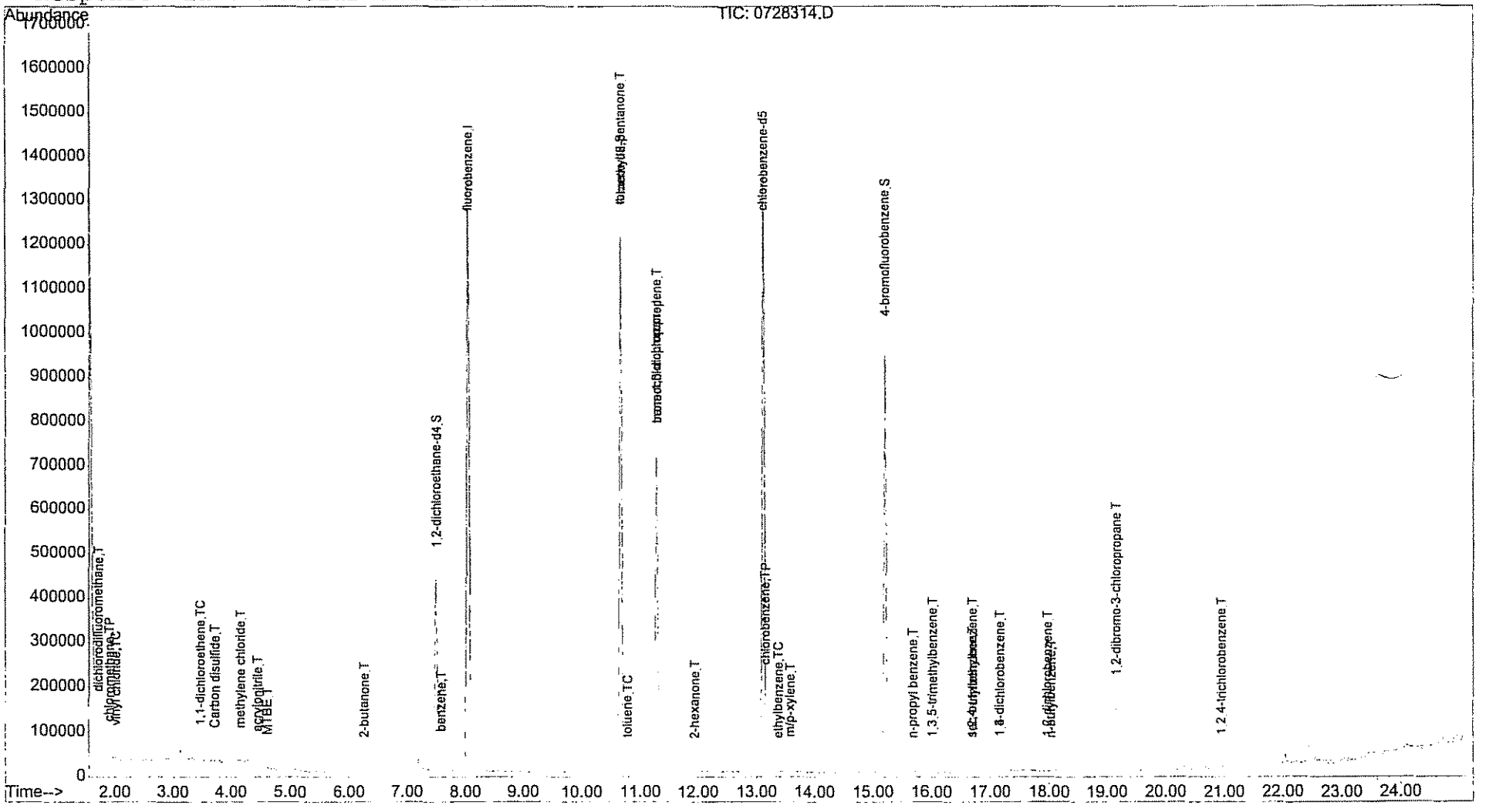
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	4.63	73	2446	0.08 ppb	# 52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728314.D Vial: 14
Acq On : 28 Jul 2005 2:50 pm Operator: JTF
Sample : g161-2081-6a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:15 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728315.D Vial: 15
Acq On : 28 Jul 2005 3:21 pm Operator: JTF
Sample : g161-2081-7a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:47 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.05	96	1588128	50.00 ppb	0.00
39) bromochloropropane	11.28	79	159456	50.00 ppb	-0.02
53) chlorobenzene-d5	13.12	117	1056774	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.50	65	541670	69.42 ppb	-0.02
Spiked Amount 50.000			Recovery	= 138.84%	
33) toluene-d8	10.66	98	1141425	50.58 ppb	0.00
Spiked Amount 50.000			Recovery	= 101.16%	
49) 4-bromofluorobenzene	15.21	95	578024	66.04 ppb	0.00
Spiked Amount 50.000			Recovery	= 132.08%	

Target Compounds						Qvalue
4) vinyl chloride	2.04	62	613	0.02 ppb	#	43
5) bromomethane	2.36	94	858	Below Cal	#	1
8) acrolein	3.36	56	642	0.89 ppb	#	1
9) 1,1-dichloroethene	3.44	96	594	0.04 ppb	#	1
10) acetone	3.55	43	25805	Below Cal	#	55
11) methylene chloride	4.17	84	6171	0.49 ppb	#	69
12) trans-1,2-dichloroethene	4.53	96	598	0.03 ppb	#	1
13) acrylonitrile	4.46	53	596	5.34 ppb	#	10
17) 2-butanone	6.26	43	2422	0.20 ppb	#	52
24) benzene	7.59	78	14126	0.18 ppb		93
32) 4-methyl-2-pentanone	10.67	43	9166	0.50 ppb	#	1
34) toluene	10.77	92	4814	0.11 ppb	#	72
36) trans-1,3-dichloropropene	11.28	75	12581	0.79 ppb	#	56
38) Carbon disulfide	3.75	76	42357	0.69 ppb	#	59
43) 2-hexanone	11.93	43	746	0.05 ppb	#	29
46) chlorobenzene	13.15	112	1652	0.05 ppb	#	78
51) 1,1,2,2-tetrachloroethane	15.22	83	625	0.09 ppb	#	26
54) ethylbenzene	13.37	91	4359	0.05 ppb	#	47
55) m/p-xylene	13.60	106	3612	0.12 ppb	#	2
59) n-propyl benzene	15.69	91	5785	0.06 ppb	#	59
61) 4-chlorotoluene	16.00	126	635	0.05 ppb	#	1
62) 1,3,5-trimethylbenzene	16.02	105	3450	0.05 ppb	#	33
63) tert-butylbenzene	16.59	119	613	0.01 ppb	#	32
64) 1,2,4-trimethylbenzene	16.68	105	7217	0.12 ppb		97
65) sec-butylbenzene	16.99	105	7597	0.08 ppb	#	65
66) 1,3-dichlorobenzene	17.15	146	3722	0.17 ppb	#	23
67) 4-isopropyltoluene	17.27	119	1998	0.03 ppb	#	51
68) 1,4-dichlorobenzene	17.15	146	3722	0.17 ppb	#	23
69) 1,2-dichlorobenzene	18.01	146	1480	0.08 ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728315.D Vial: 15
Acq On : 28 Jul 2005 3:21 pm Operator: JTF
Sample : g161-2081-7a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:47 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	n-butylbenzene	18.03	91	6599	~~0.09~~	ppb	#	1
71)	1,2-dibromo-3-chloropropan	19.15	75	14333	~~9.27~~	ppb	#	13
72)	1,2,4-trichlorobenzene	20.95	180	1733	0.18	ppb		95
74)	naphthalene	21.39	128	10826	Below Cal			100
76)	1,2,3-trichlorobenzene	21.82	180	620	0.08	ppb	#	3
77)	MTBE	4.66	73	751	0.02	ppb	#	52

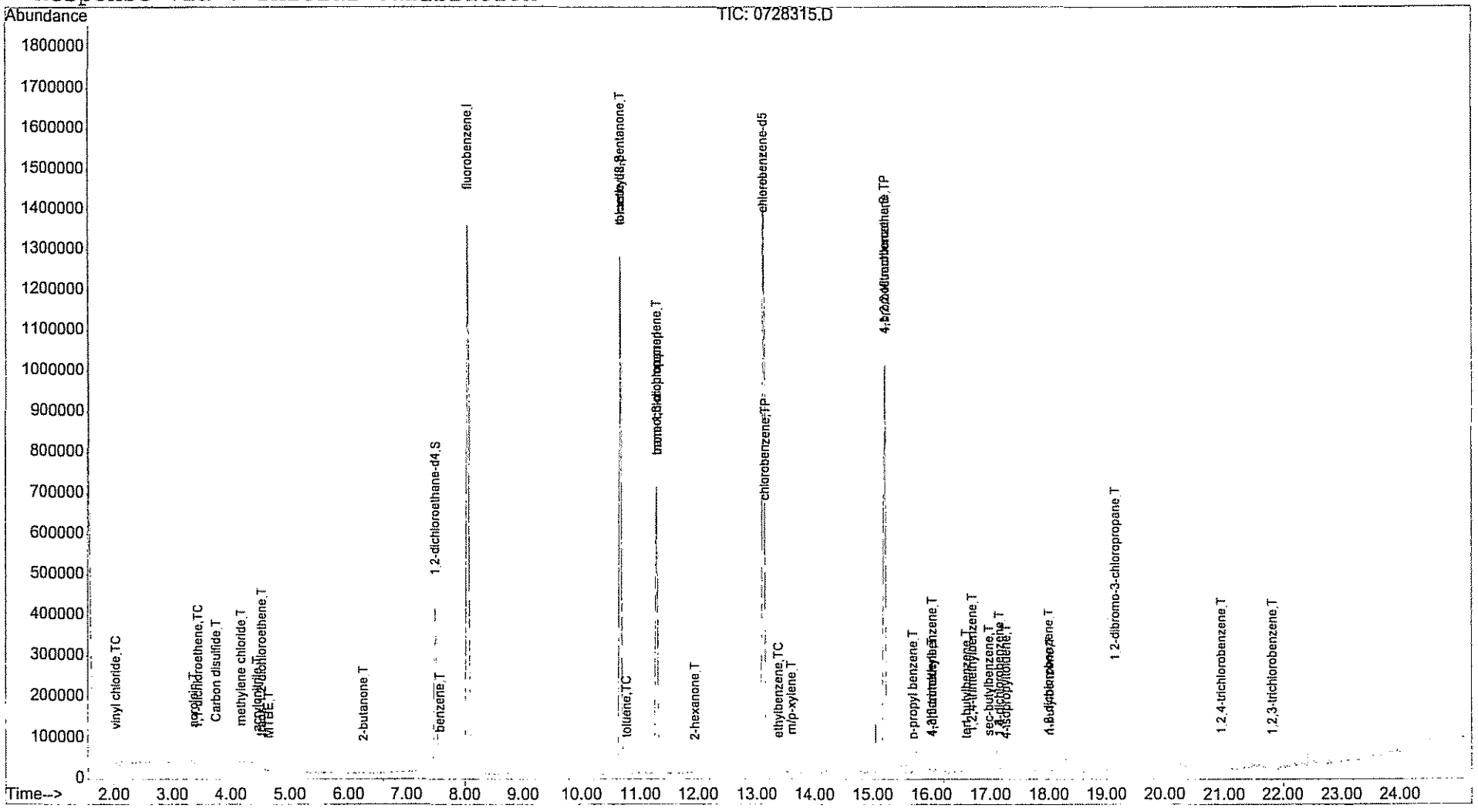
M

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3072805\0728315.D Vial: 15
Acq On : 28 Jul 2005 3:21 pm Operator: JTF
Sample : g161-2081-7a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 15:47 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728316.D Vial: 16
Acq On : 28 Jul 2005 3:53 pm Operator: JTF
Sample : g161-2081-8a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:18 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.05	96	1959073	50.00 ppb	0.00
39) bromochloropropane	11.28	79	207288	50.00 ppb	-0.02
53) chlorobenzene-d5	13.11	117	1225789	50.00 ppb	-0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.50	65	712339	74.01 ppb	-0.01
Spiked Amount 50.000			Recovery	= 148.02%	
33) toluene-d8	10.67	98	1446599	51.96 ppb	0.00
Spiked Amount 50.000			Recovery	= 103.92%	
49) 4-bromofluorobenzene	15.20	95	651177	57.23 ppb	0.00
Spiked Amount 50.000			Recovery	= 114.46%	
Target Compounds					Qvalue
3) chloromethane	1.91	50	2661	0.09 ppb	# 48
4) vinyl chloride	2.01	62	1513	0.04 ppb	# 43
5) bromomethane	2.34	94	1413	Below Cal	# 1
6) chloroethane	2.49	64	894	Below Cal	# 44
8) acrolein	3.37	56	733	0.82 ppb	# 1
9) 1,1-dichloroethene	3.40	96	658	0.03 ppb	# 1
10) acetone	3.55	43	26366	Below Cal	# 61
11) methylene chloride	4.17	84	8874	0.57 ppb	# 63
12) trans-1,2-dichloroethene	4.59	96	620	0.03 ppb	# 1
13) acrylonitrile	4.58	53	610	5.30 ppb	# 14
15) 2,2-dichloropropane	6.11	77	708	0.02 ppb	# 58
17) 2-butanone	6.24	43	805	0.05 ppb	# 52
22) 1,1-dichloropropene	7.27	75	610	0.02 ppb	# 44
24) benzene	7.57	78	18784	0.19 ppb	# 1
32) 4-methyl-2-pentanone	10.52	43	657	0.03 ppb	# 43
34) toluene	10.78	92	2473	0.05 ppb	# 45
36) trans-1,3-dichloropropene	11.29	75	15000	0.77 ppb	# 56
38) Carbon disulfide	3.76	76	9024	0.12 ppb	# 46
41) tetrachloroethene	11.70	166	17922	0.96 ppb	91
43) 2-hexanone	11.92	43	755	0.04 ppb	# 29
46) chlorobenzene	13.15	112	4313	0.10 ppb	# 63
50) bromobenzene	15.45	156	630	0.05 ppb	91
54) ethylbenzene	13.38	91	3922	0.04 ppb	# 47
55) m/p-xylene	13.58	106	2732	0.08 ppb	# 1
56) styrene	14.29	104	2041	0.05 ppb	100
59) n-propyl benzene	15.67	91	3661	0.03 ppb	# 59
61) 4-chlorotoluene	16.03	126	871	0.06 ppb	# 1
62) 1,3,5-trimethylbenzene	16.01	105	2401	0.03 ppb	# 33
64) 1,2,4-trimethylbenzene	16.69	105	3808	0.06 ppb	# 34

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728316.D Vial: 16
Acq On : 28 Jul 2005 3:53 pm Operator: JTF
Sample : g161-2081-8a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:18 2005 Quant Results File: 8260SSC.RES

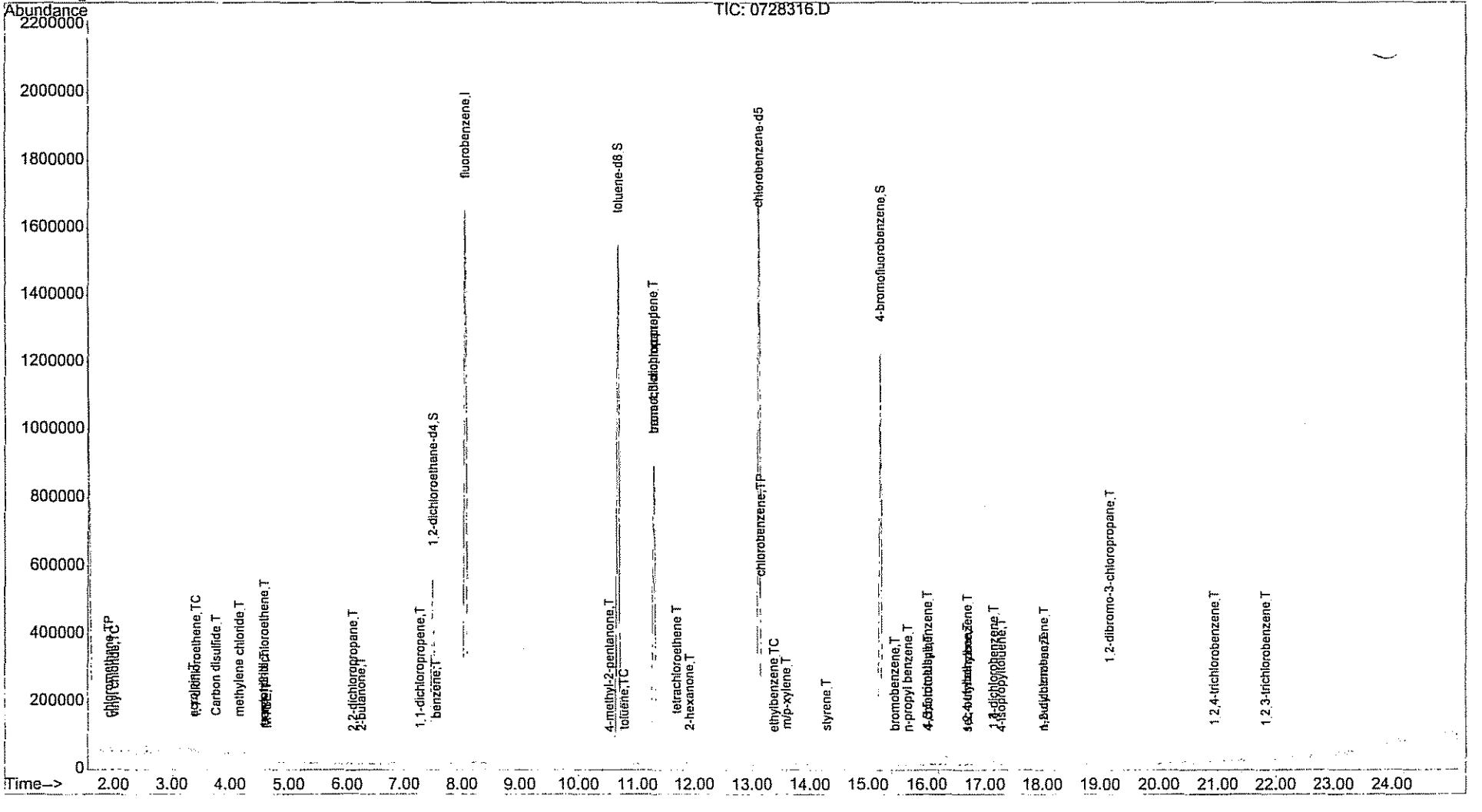
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
65)	sec-butylbenzene	16.69	105	3808	0.04	ppb	#	65
66)	1,3-dichlorobenzene	17.15	146	5017	0.19	ppb	#	53
67)	4-isopropyltoluene	17.28	119	598	0.01	ppb	#	1
68)	1,4-dichlorobenzene	17.15	146	5017	0.19	ppb	#	53
69)	1,2-dichlorobenzene	18.01	146	2129	0.11	ppb	#	22
70)	n-butylbenzene	18.01	91	4587	0.06	ppb	#	60
71)	1,2-dibromo-3-chloropropan	19.15	75	11454	6.39	ppb	#	13
72)	1,2,4-trichlorobenzene	20.95	180	3472	0.31	ppb	#	4
74)	naphthalene	21.38	128	7125	Below Cal			100
76)	1,2,3-trichlorobenzene	21.83	180	1483	0.17	ppb		86
77)	MTBE	4.62	73	3553	0.09	ppb	#	38

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728316.D Vial: 16
Acq On : 28 Jul 2005 3:53 pm Operator: JTF
Sample : g161-2081-8a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:18 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728317.D Vial: 17
Acq On : 28 Jul 2005 4:24 pm Operator: JTF
Sample : g161-2081-9a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.06	96	2462775	50.00	ppb	0.00
39) bromochloropropane	11.28	79	296719	50.00	ppb	-0.02
53) chlorobenzene-d5	13.11	117	1632538	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.49	65	1063347	87.88	ppb	-0.02
Spiked Amount 50.000			Recovery	=	175.76%	
33) toluene-d8	10.66	98	1872132	53.49	ppb	-0.01
Spiked Amount 50.000			Recovery	=	106.98%	
49) 4-bromofluorobenzene	15.20	95	939342	57.68	ppb	0.00
Spiked Amount 50.000			Recovery	=	115.36%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.71	85	3673	0.08	ppb #	66
5) bromomethane	2.38	94	3715	Below Cal	#	1
7) trichlorofluoromethane	2.80	101	14599	0.31	ppb	81
8) acrolein	3.31	56	6754	6.04	ppb #	1
9) 1,1-dichloroethene	3.46	96	667	0.03	ppb #	1
10) acetone	3.53	43	148043	4.04	ppb #	71
11) methylene chloride	4.17	84	19039	0.97	ppb	88
12) trans-1,2-dichloroethene	4.64	96	626	0.02	ppb #	1
13) acrylonitrile	4.59	53	3575	6.02	ppb #	10
15) 2,2-dichloropropane	6.23	77	618	0.01	ppb #	58
17) 2-butanone	6.26	43	25562	1.34	ppb #	66
19) chloroform	6.74	83	759	0.02	ppb #	19
24) benzene	7.58	78	46479	0.38	ppb	98
26) trichloroethene	8.66	95	891	0.03	ppb #	12
32) 4-methyl-2-pentanone	10.57	43	613	0.02	ppb #	43
34) toluene	10.77	92	16636	0.25	ppb	76
36) trans-1,3-dichloropropene	11.28	75	20849	0.85	ppb #	56
38) Carbon disulfide	3.75	76	75558	0.79	ppb #	88
42) 1,3-dichloropropane	11.74	76	1587	0.06	ppb #	1
43) 2-hexanone	11.95	43	3409	0.13	ppb #	29
46) chlorobenzene	13.16	112	3268	0.05	ppb #	59
54) ethylbenzene	13.38	91	8802	0.06	ppb #	47
55) m/p-xylene	13.58	106	4166	0.09	ppb #	61
56) styrene	14.32	104	3807	0.07	ppb	100
57) o-xylene	14.27	106	636	0.02	ppb #	1
58) isopropylbenzene	15.19	105	592	0.00	ppb #	53
59) n-propyl benzene	15.69	91	6808	0.04	ppb #	59
61) 4-chlorotoluene	16.01	126	1549	0.08	ppb #	19
62) 1,3,5-trimethylbenzene	16.02	105	3058	0.03	ppb #	33

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728317.D Vial: 17
Acq On : 28 Jul 2005 4:24 pm Operator: JTF
Sample : g161-2081-9a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

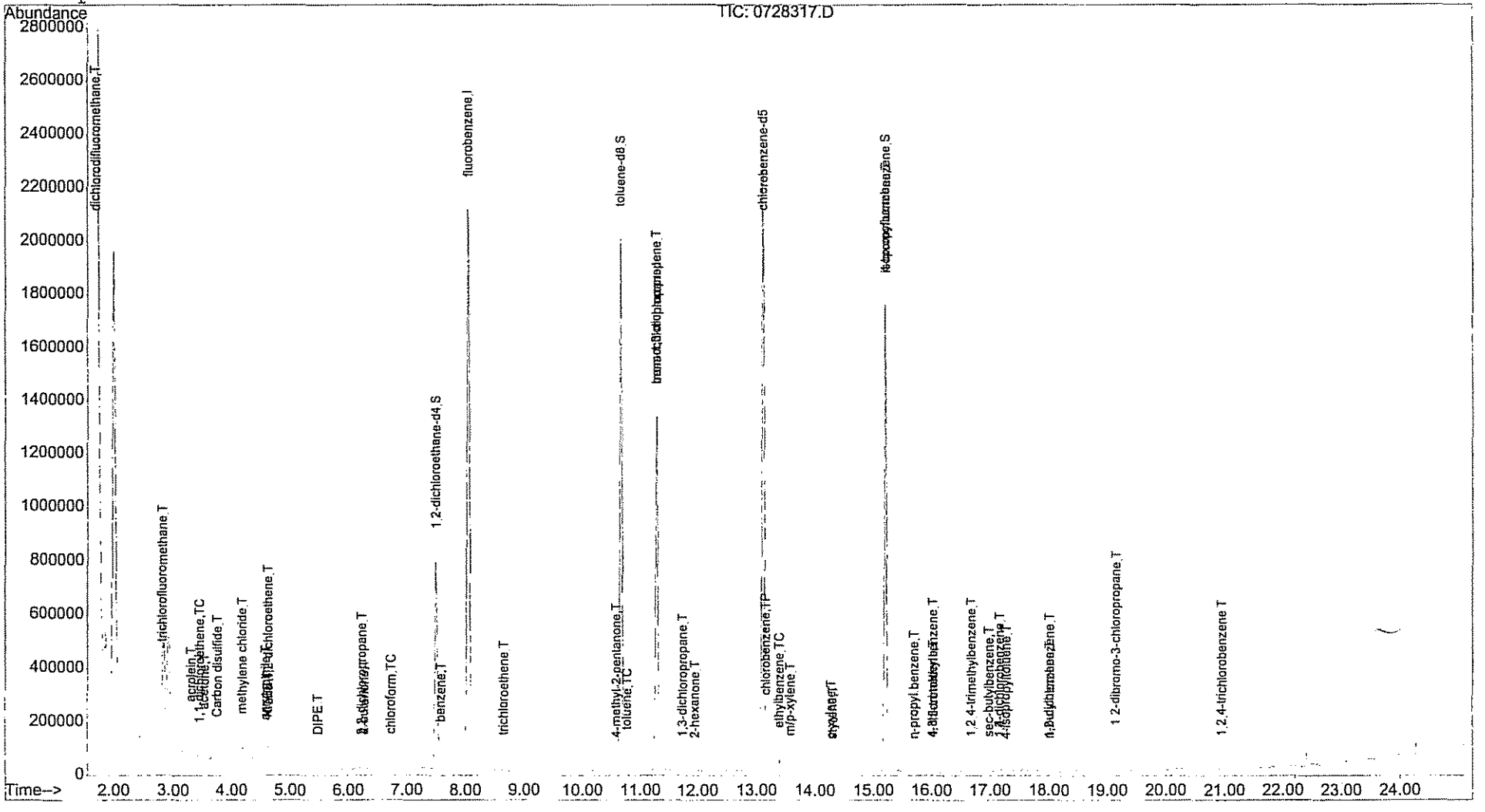
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
64)	1,2,4-trimethylbenzene	16.68	105	9937	0.11	ppb	#	85
65)	sec-butylbenzene	16.99	105	741	0.01	ppb	#	65
66)	1,3-dichlorobenzene	17.16	146	2999	0.09	ppb	#	53
67)	4-isopropyltoluene	17.26	119	799	0.01	ppb	#	51
68)	1,4-dichlorobenzene	17.16	146	2999	0.09	ppb	#	53
69)	1,2-dichlorobenzene	18.00	146	1288	0.05	ppb	#	22
70)	n-butylbenzene	18.02	91	4250	0.04	ppb	#	60
71)	1,2-dibromo-3-chloropropan	19.15	75	3839	1.61	ppb	#	13
72)	1,2,4-trichlorobenzene	20.94	180	1487	0.10	ppb	#	4
74)	naphthalene	21.38	128	5894	Below	Cal		100
77)	MTBE	4.61	73	6231	0.12	ppb	#	1
78)	DIPE	5.47	45	1253	0.01	ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3072805\0728317.D Vial: 17
Acq On : 28 Jul 2005 4:24 pm Operator: JTF
Sample : g161-2081-9a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728308.D Vial: 8
Acq On : 28 Jul 2005 11:37 am Operator: JTF
Sample : g161-2081-10a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 12:02 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Analyst 7/28/05 FB MORE 60% out, BUT CAN'T RE ONLY HAVE 1 vial

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	1206015	50.00	ppb	0.00
39) bromochloropropane	11.29	79	151421	50.00	ppb	-0.01
53) chlorobenzene-d5	13.11	117	827893	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	527804	89.08	ppb out	-0.01
Spiked Amount 50.000			Recovery	=	178.16%	
33) toluene-d8	10.67	98	915836	53.44	ppb	0.00
Spiked Amount 50.000			Recovery	=	106.88%	
49) 4-bromofluorobenzene	15.20	95	467511	56.25	ppb	0.00
Spiked Amount 50.000			Recovery	=	112.50%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.72	85	3644	0.16	ppb #	41
5) bromomethane	2.35	94	601	Below Cal	#	1
7) trichlorofluoromethane	2.82	101	16493	0.72	ppb	83
8) acrolein	3.38	56	692	~~1.26~~	ppb #	15
9) 1,1-dichloroethene	3.52	96	639	~~0.05~~	ppb #	1
10) acetone	3.54	43	21343	Below Cal	#	52
11) methylene chloride	4.17	84	27549	~~2.85~~	ppb	88
13) acrylonitrile	4.56	53	1585	~~5.93~~	ppb	85
17) 2-butanone	6.28	43	3109	~~0.33~~	ppb #	52
19) chloroform	6.71	83	662	0.03	ppb #	19
24) benzene	7.60	78	14271	0.24	ppb #	51
32) 4-methyl-2-pentanone	10.68	43	6486	0.46	ppb #	1
34) toluene	10.77	92	8877	0.27	ppb #	74
36) trans-1,3-dichloropropene	11.29	75	9827	0.32	ppb #	56
38) Carbon disulfide	3.76	76	3120	0.07	ppb #	33
43) 2-hexanone	11.95	43	2217	0.16	ppb #	29
46) chlorobenzene	13.18	112	5103	0.16	ppb #	76
50) bromobenzene	15.45	156	1545	0.17	ppb	92
54) ethylbenzene	13.39	91	5091	0.07	ppb #	47
55) m/p-xylene	13.58	106	5077	0.21	ppb #	50
56) styrene	14.31	104	4501	0.15	ppb	100
58) isopropylbenzene	14.96	105	1313	0.02	ppb #	53
59) n-propyl benzene	15.69	91	7763	0.09	ppb #	59
61) 4-chlorotoluene	16.01	126	1744	0.17	ppb #	7
62) 1,3,5-trimethylbenzene	16.04	105	4755	0.10	ppb #	33
64) 1,2,4-trimethylbenzene	16.68	105	10195	0.22	ppb #	75
65) sec-butylbenzene	16.99	105	2417	0.03	ppb #	65
66) 1,3-dichlorobenzene	17.16	146	7054	0.40	ppb	95
67) 4-isopropyltoluene	17.28	119	4155	0.08	ppb #	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728308.D
Acq On : 28 Jul 2005 11:37 am
Sample : g161-2081-10a
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 28 12:02 2005

Vial: 8
Operator: JTF
Inst : MSD3
Multiplr: 1.00
Quant Results File: 8260SSC.RES

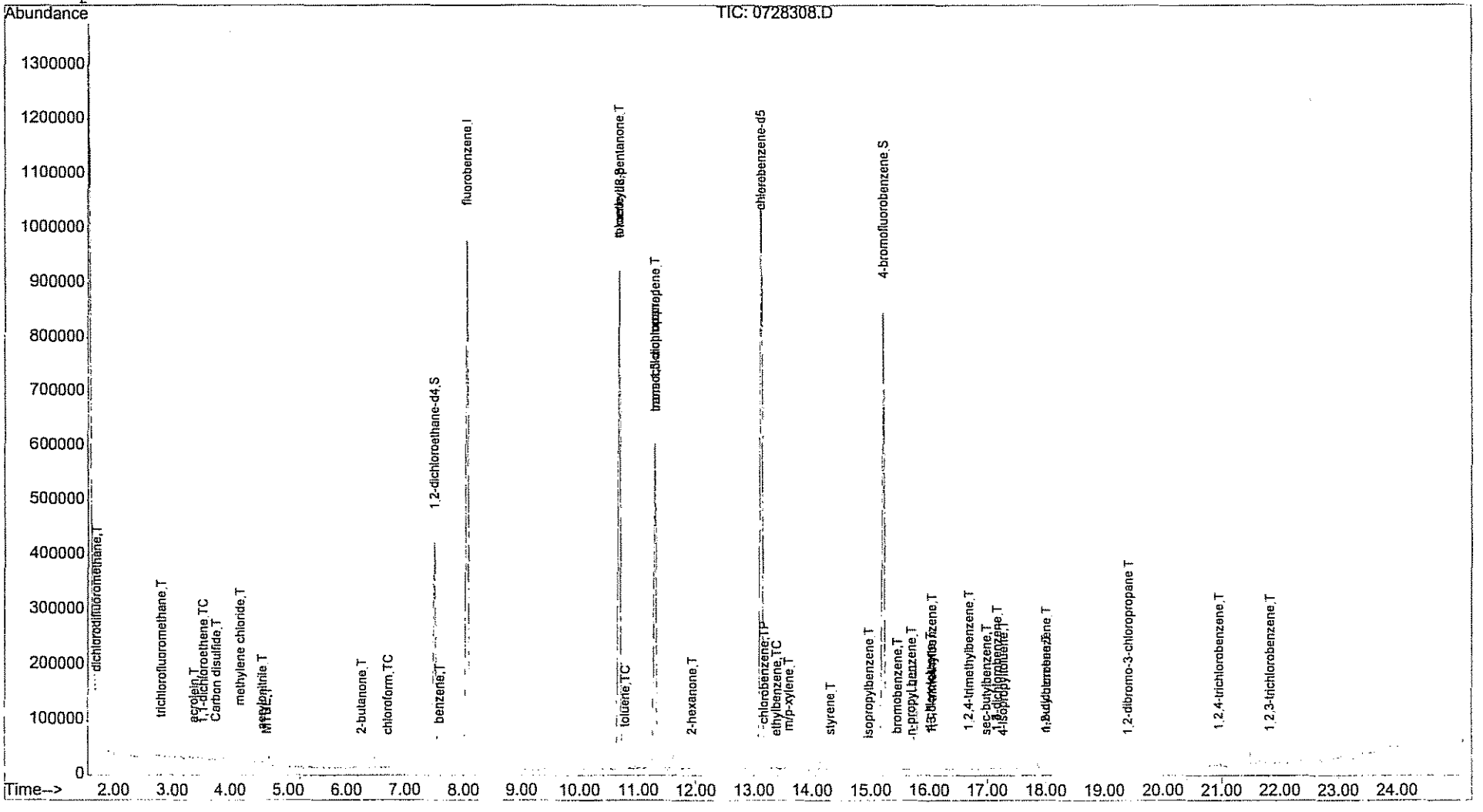
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
68)	1,4-dichlorobenzene	17.16	146	7054	0.40	ppb		95
69)	1,2-dichlorobenzene	17.99	146	2558	0.19	ppb	#	60
70)	n-butylbenzene	18.01	91	8743	0.16	ppb	#	60
71)	1,2-dibromo-3-chloropropan	19.41	75	725	0.60	ppb	#	13
72)	1,2,4-trichlorobenzene	20.95	180	3558	0.47	ppb		96
74)	naphthalene	21.37	128	11959	Below	Cal		100
76)	1,2,3-trichlorobenzene	21.82	180	1535	0.26	ppb	#	3
77)	MTBE	4.64	73	2131	0.08	ppb	#	52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728308.D Vial: 8
Acq On : 28 Jul 2005 11:37 am Operator: JTF
Sample : g161-2081-10a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 28 12:02 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



5035 Calibration Raw Data

Response Factor Report MSD3

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration

Calibration Files
5 =0714311.D 4 =0714310.D 3 =0714309.D
2 =0714308.D 1 =0714306.D 6 =0714307.D

		Compound	5	4	3	2	1	6	Avg	%RSD
1)	I	fluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	
2)	T	dichlorodifluoromet	1.020	1.035	1.012	0.869	0.834	0.952	0.954	8.89
3)	TP	chloromethane	0.832	0.826	0.849	0.747	0.719	0.805	0.796	6.53
4)	TC	vinyl chloride	1.013	1.006	0.997	0.863	0.776	0.919	0.929	10.26
5)	T	bromomethane	0.261	0.260	0.315	0.357	0.399	0.410	0.333	19.78
6)	T	chloroethane		0.277	0.297	0.433	0.387	0.471	0.373	22.59
7)	T	trichlorofluorometh	0.956	1.054	1.053	0.903	0.781	0.962	0.951	10.76
8)	T	acrolein	0.023	0.025	0.024	0.021	0.020	0.024	0.023	9.48
9)	TC	1,1-dichloroethene	0.492	0.510	0.495	0.547	0.556	0.564	0.527	6.04
10)	T	acetone	0.257	0.311	0.304	0.339	0.370	0.409	0.332	16.07
11)	T	methylene chloride	0.383	0.398	0.387	0.411	0.403	0.420	0.400	3.52
12)	T	trans-1,2-dichloroe	0.530	0.549	0.542	0.573	0.595	0.545	0.556	4.29
13)	T	acrylonitrile	0.078	0.085	0.078	0.067	0.051	0.075	0.072	16.61
14)	TP	1,1-dichloroethane	1.067	1.103	1.082	1.143	1.090	1.116	1.100	2.42
15)	T	2,2-dichloropropane	0.961	0.996	1.006	1.064	1.070	1.083	1.030	4.77
16)	T	cis-1,2-dichloroeth	0.492	0.510	0.507	0.553	0.559	0.567	0.531	6.02
17)	T	2-butanone	0.335	0.394	0.355	0.407	0.395	0.434	0.387	9.31
18)	T	bromochloromethane	0.129	0.136	0.133	0.136	0.131	0.131	0.133	2.15
19)	TC	chloroform	0.916	0.945	0.913	0.974	0.940	0.941	0.938	2.38
20)	T	1,1,1-trichloroetha	0.960	0.990	0.962	1.003	0.990	1.001	0.984	1.93
21)	T	carbon tetrachlorid	0.805	0.825	0.784	0.819	0.749	0.789	0.795	3.51
22)	T	1,1-dichloropropene	0.924	0.952	0.920	0.984	1.003	0.969	0.959	3.47
23)	S	1,2-dichloroethane-	0.237	0.253	0.239	0.241	0.242	0.262	0.246	3.96
24)	T	benzene	2.208	2.383	2.347	2.514	2.837	2.598	2.481	8.89
25)	T	1,2-dichloroethane	0.516	0.549	0.533	0.578	0.539	0.581	0.549	4.66
26)	T	trichloroethene	0.600	0.612	0.598	0.629	0.615	0.642	0.616	2.74
27)	TC	1,2-dichloropropane	0.506	0.523	0.514	0.535	0.551	0.539	0.528	3.17
28)	T	dibromomethane	0.167	0.181	0.173	0.185	0.164	0.192	0.177	6.07
29)	T	bromodichloromethan	0.545	0.565	0.558	0.581	0.505	0.573	0.554	4.94
30)	T	2-chloroethyl vinyl	0.257	0.267	0.240	0.201	0.148	0.213	0.221	19.75
31)	T	cis-1,3-dichloropro	0.634	0.663	0.637	0.678	0.630	0.684	0.655	3.61
32)	T	4-methyl-2-pentanon	0.550	0.617	0.570	0.594	0.532	0.616	0.580	6.09
33)	S	toluene-d8	0.696	0.708	0.707	0.716	0.713	0.722	0.711	1.26
34)	TC	toluene	1.331	1.358	1.305	1.403	1.390	1.393	1.363	2.86
35)	T	Iodomethane	0.568	0.602	0.617	0.575	0.442	0.550	0.559	11.12
36)	T	trans-1,3-dichlorop	0.492	0.509	0.479	0.537	0.473	0.504	0.499	4.67
37)	T	Vinyl acetate	0.039	0.048	0.041	0.047	0.039	0.046	0.043	9.60
38)	T	Carbon disulfide	1.910	1.946	1.914	1.982	1.966	1.941	1.943	1.46
39)	I	bromochloropropane	----------	----------	----------	ISTD	----------	----------	----------	
40)	T	1,1,2-trichloroetha	1.897	1.962	1.932	2.114	1.902	1.995	1.967	4.11
41)	T	tetrachloroethene	4.335	4.341	4.360	4.839	4.606	4.576	4.510	4.48
42)	T	1,3-dichloropropane	4.209	4.408	4.381	4.620	4.355	4.588	4.427	3.48
43)	T	2-hexanone	3.846	4.295	4.277	4.749	4.805	4.730	4.450	8.48
44)	T	dibromochloromethan	2.037	2.175	2.181	2.307	2.079	2.247	2.171	4.65
45)	T	1,2-dibromoethane	1.915	2.000	1.938	2.159	1.947	2.010	1.995	4.44
46)	TP	chlorobenzene	0.994	1.011	1.026	1.134	1.101	1.088	1.059 E1	5.32
47)	T	1,1,1,2-tetrachloro	2.563	2.645	2.668	2.920	2.738	2.793	2.721	4.61
48)	TP	bromoform	1.161	1.240	1.141	1.223	1.020	1.152	1.156	6.73
49)	S	4-bromofluorobenzen	2.584	2.742	2.682	2.884	2.792	2.782	2.744	3.75
50)	T	bromobenzene	2.808	2.937	2.906	3.259	3.226	2.976	3.018	6.04
51)	TP	1,1,2,2-tetrachloro	2.071	2.282	2.181	2.359	1.939	2.400	2.205	8.03
52)	T	1,2,3-trichloroprop	3.045	3.066	2.866	3.228	2.545	2.796	2.924	8.24
53)		chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
54)	TC	ethylbenzene	3.608	4.442	4.290	4.438	4.501	4.478	4.293	8.00
55)	T	m/p-xylene	1.431	1.442	1.429	1.510	1.478	1.511	1.467	2.61

(#) = Out of Range

Response Factor Report MSD3

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration

Calibration Files
5 =0714311.D 4 =0714310.D 3 =0714309.D
2 =0714308.D 1 =0714306.D 6 =0714307.D

		Compound	5	4	3	2	1	6	Avg	%RSD
56)	T	styrene	1.755	1.786	1.715	1.809	1.741	1.829	1.773	2.42
57)	T	o-xylene	1.264	1.286	1.258	1.328	1.289	1.307	1.289	2.05
58)	T	isopropylbenzene	3.430	4.137	3.927	4.104	4.097	4.114	3.968	6.91
59)	T	n-propyl benzene	3.688	5.193	4.926	5.356	5.304	5.224	4.949	12.83
60)	T	2-chlorotoluene	0.593	0.625	0.623	0.688	0.667	0.681	0.646	5.84
61)	T	4-chlorotoluene	0.555	0.593	0.580	0.671	0.646	0.665	0.618	7.83
62)	T	1,3,5-trimethylbenz	2.822	3.005	2.903	3.153	3.048	3.069	3.000	3.99
63)	T	tert-butylbenzene	2.499	2.568	2.384	2.626	2.492	2.516	2.514	3.24
64)	T	1,2,4-trimethylbenz	2.681	2.802	2.617	2.973	2.836	2.853	2.794	4.56
65)	T	sec-butylbenzene	3.474	4.565	4.214	4.640	4.390	4.523	4.301	10.05
66)	T	1,3-dichlorobenzene	0.995	1.055	1.010	1.146	1.039	1.075	1.053	5.14
67)	T	4-isopropyltoluene	2.809	3.101	2.861	3.273	3.102	3.120	3.044	5.75
68)	T	1,4-dichlorobenzene	0.995	1.055	1.010	1.146	1.039	1.075	1.053	5.14
69)	T	1,2-dichlorobenzene	0.757	0.817	0.776	0.889	0.833	0.871	0.824	6.28
70)	T	n-butylbenzene	3.000	3.468	3.161	3.610	3.632	3.487	3.393	7.54
71)	T	1,2-dibromo-3-chlor	0.067	0.075	0.066	0.080	0.073	0.078	0.073	7.69
72)	T	1,2,4-trichlorobenz	0.416	0.454	0.387	0.513	0.499	0.500	0.462	11.18
73)	T	hexachlorobutadiene	0.306	0.329	0.258	0.363	0.155	0.342	0.292	26.08
74)	T	naphthalene	0.525	0.550	0.462	0.626	0.714	0.644	0.587	15.55
75)	T	trans-1,4-Dichloro-	0.059	0.063	0.057	0.057	0.051	0.055	0.057	7.16
76)	T	1,2,3-trichlorobenz	0.323	0.347	0.287	0.398	0.384	0.383	0.354	12.11
77)	T	MTBE	1.595	1.657	1.587	1.626	1.502	1.640	1.601	3.45
78)	T	DIPE	3.006	3.018	3.153	3.245	3.091	3.168	3.114	2.98

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714306.D Vial: 6
Acq On : 14 Jul 2005 2:49 pm Operator: JTF
Sample : vstd5 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.05	96	2331565	50.00 ppb	-0.01
39) bromochloropropane	11.28	79	247893	50.00 ppb	-0.02
53) chlorobenzene-d5	13.11	117	1409671	50.00 ppb	-0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.49	65	563739	49.21 ppb	-0.02
Spiked Amount 50.000			Recovery =	98.42%	
33) toluene-d8	10.66	98	1662955	50.19 ppb	-0.01
Spiked Amount 50.000			Recovery =	100.38%	
49) 4-bromofluorobenzene	15.19	95	692098	50.87 ppb	-0.01
Spiked Amount 50.000			Recovery =	101.74%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.70	85	194407	4.37 ppb #	88
3) chloromethane	1.90	50	167569	4.51 ppb	98
4) vinyl chloride	2.01	62	180944	4.18 ppb	97
5) bromomethane	2.37	94	93058	1.24 ppb	96
6) chloroethane	2.50	64	90142	Below Cal	98
7) trichlorofluoromethane	2.80	101	182036	4.10 ppb	94
8) acrolein	3.32	56	46210	43.66 ppb #	76
9) 1,1-dichloroethene	3.45	96	129544	5.27 ppb	91
10) acetone	3.54	43	86216	Below Cal #	88
11) methylene chloride	4.16	84	94009	5.04 ppb	89
12) trans-1,2-dichloroethene	4.60	96	138700	5.35 ppb #	73
13) acrylonitrile	4.56	53	118906	37.22 ppb	95
14) 1,1-dichloroethane	5.26	63	254128	4.95 ppb #	97
15) 2,2-dichloropropane	6.18	77	249439	5.19 ppb	99
16) cis-1,2-dichloroethene	6.19	96	130272	5.26 ppb	98
17) 2-butanone	6.25	43	92092	5.11 ppb #	86
18) bromochloromethane	6.58	128	30634	4.95 ppb #	77
19) chloroform	6.72	83	219073	5.01 ppb	98
20) 1,1,1-trichloroethane	6.98	97	230909	5.03 ppb	91
21) carbon tetrachloride	7.25	117	174520	4.71 ppb	89
22) 1,1-dichloropropene	7.26	75	233905	5.23 ppb	99
24) benzene	7.58	78	661354	5.72 ppb	96
25) 1,2-dichloroethane	7.62	62	125627	4.90 ppb	99
26) trichloroethene	8.65	95	143411	4.99 ppb	98
27) 1,2-dichloropropane	9.00	63	128364	5.22 ppb	99
28) dibromomethane	9.19	93	38253	4.63 ppb #	84
29) bromodichloromethane	9.48	83	117662	4.55 ppb	97
30) 2-chloroethyl vinyl ether	10.01	106	34513	5.35 ppb	86
31) cis-1,3-dichloropropene	10.22	75	146994	4.82 ppb	93
32) 4-methyl-2-pentanone	10.52	43	124020	4.59 ppb #	91
34) toluene	10.77	92	324108	5.10 ppb	90
35) Iodomethane	3.65	142	103057	3.95 ppb	93
36) trans-1,3-dichloropropene	11.17	75	110177	4.74 ppb #	88
37) Vinyl acetate	5.39	86	22510	11.15 ppb	78
38) Carbon disulfide	3.75	76	458333	5.06 ppb #	94
40) 1,1,2-trichloroethane	11.47	83	47150	4.83 ppb	87
41) tetrachloroethene	11.69	166	114172	5.11 ppb	96
42) 1,3-dichloropropane	11.74	76	107953	4.92 ppb	97
43) 2-hexanone	11.93	43	119102	5.40 ppb	93
44) dibromochloromethane	12.12	129	51533	4.79 ppb	83
45) 1,2-dibromoethane	12.29	107	48254	4.88 ppb #	91
46) chlorobenzene	13.16	112	273025	5.20 ppb	94
47) 1,1,1,2-tetrachloroethane	13.32	131	67861	5.03 ppb	97

(#) = qualifier out of range (m) = manual integration
0714306.D 8260SSC.M Tue Aug 02 16:46:32 2005

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714306.D Vial: 6
Acq On : 14 Jul 2005 2:49 pm Operator: JTF
Sample : vstd5 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

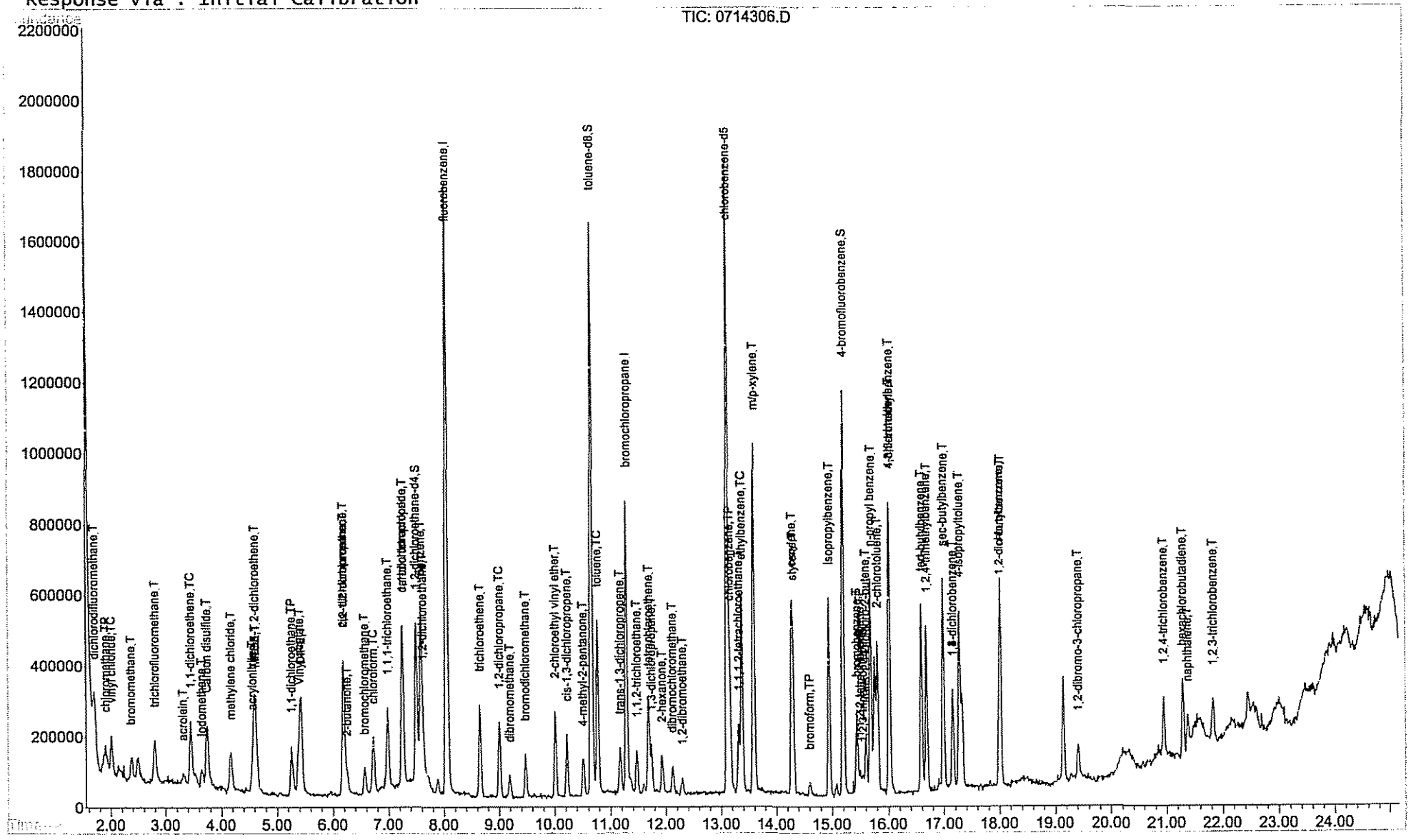
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	25285	4.41 ppb		98
50)	bromobenzene	15.44	156	79958	5.34 ppb		94
51)	1,1,2,2-tetrachloroethane	15.50	83	48059	4.40 ppb	#	78
52)	1,2,3-trichloropropane	15.56	75	39857	2.75 ppb		98
54)	ethylbenzene	13.38	91	634478	5.24 ppb		100
55)	m/p-xylene	13.59	106	416814	10.08 ppb		98
56)	styrene	14.31	104	245469	4.91 ppb		100
57)	o-xylene	14.28	106	181735	5.00 ppb		97
58)	isopropylbenzene	14.95	105	577610	5.16 ppb		98
59)	n-propyl benzene	15.69	91	747643	5.36 ppb		100
60)	2-chlorotoluene	15.81	126	92786	5.09 ppb		99
61)	4-chlorotoluene	16.01	126	91007	5.22 ppb		97
62)	1,3,5-trimethylbenzene	16.02	105	429629	5.08 ppb		98
63)	tert-butylbenzene	16.58	119	351290	4.96 ppb		97
64)	1,2,4-trimethylbenzene	16.68	105	399816	5.08 ppb		99
65)	sec-butylbenzene	16.99	105	618806	5.10 ppb		99
66)	1,3-dichlorobenzene	17.15	146	146493	4.93 ppb		95
67)	4-isopropyltoluene	17.27	119	437243	5.09 ppb		96
68)	1,4-dichlorobenzene	17.15	146	146493	4.93 ppb		95
69)	1,2-dichlorobenzene	17.99	146	117492	5.06 ppb		96
70)	n-butylbenzene	18.01	91	512000	5.35 ppb		98
71)	1,2-dibromo-3-chloropropan	19.41	75	57512	27.89 ppb	#	75
72)	1,2,4-trichlorobenzene	20.95	180	70413	5.41 ppb		82
73)	hexachlorobutadiene	21.29	225	21876	2.85 ppb		96
74)	naphthalene	21.37	128	100602	5.35 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	35838	22.33 ppb		94
76)	1,2,3-trichlorobenzene	21.83	180	54079	5.42 ppb		100
77)	MTBE	4.63	73	211729	4.69 ppb		97
78)	DIPE	5.43	45	435770	4.96 ppb	#	94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714306.D Vial: 6
Acq On : 14 Jul 2005 2:49 pm Operator: JTF
Sample : vstd5 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714307.D Vial: 7
Acq On : 14 Jul 2005 3:20 pm Operator: JTF
Sample : vstd10 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	2377359	50.00	ppb	0.00
39) bromochloropropane	11.28	79	265245	50.00	ppb	-0.02
53) chlorobenzene-d5	13.11	117	1450915	50.00	ppb	-0.02
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	623499	53.38	ppb	-0.02
Spiked Amount 50.000			Recovery	=	106.76%	
33) toluene-d8	10.66	98	1716857	50.82	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.64%	
49) 4-bromofluorobenzene	15.20	95	737864	50.68	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.36%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	452538	9.98	ppb		92
3) chloromethane	1.90	50	382890	10.11	ppb		99
4) vinyl chloride	2.02	62	436910	9.89	ppb		100
5) bromomethane	2.37	94	194763	9.58	ppb		100
6) chloroethane	2.49	64	223858	10.29	ppb		89
7) trichlorofluoromethane	2.81	101	457428	10.11	ppb		100
8) acrolein	3.33	56	114097	105.73	ppb		95
9) 1,1-dichloroethene	3.46	96	268011	10.69	ppb		89
10) acetone	3.54	43	194341	8.26	ppb		93
11) methylene chloride	4.17	84	199778	10.50	ppb		93
12) trans-1,2-dichloroethene	4.60	96	259199	9.81	ppb		98
13) acrylonitrile	4.56	53	355727	99.34	ppb		100
14) 1,1-dichloroethane	5.26	63	530412	10.14	ppb		100
15) 2,2-dichloropropane	6.19	77	515000	10.51	ppb		99
16) cis-1,2-dichloroethene	6.19	96	269807	10.68	ppb		95
17) 2-butanone	6.26	43	206407	11.23	ppb		90
18) bromochloromethane	6.57	128	62259	9.86	ppb		83
19) chloroform	6.72	83	447358	10.03	ppb		89
20) 1,1,1-trichloroethane	6.99	97	475835	10.17	ppb		97
21) carbon tetrachloride	7.25	117	375170	9.92	ppb		99
22) 1,1-dichloropropene	7.26	75	460926	10.11	ppb		97
24) benzene	7.59	78	1235499	10.47	ppb		99
25) 1,2-dichloroethane	7.63	62	276095	10.57	ppb		98
26) trichloroethene	8.65	95	305108	10.42	ppb		96
27) 1,2-dichloropropane	9.01	63	256512	10.22	ppb		98
28) dibromomethane	9.19	93	91250	10.83	ppb		88
29) bromodichloromethane	9.48	83	272575	10.34	ppb		97
30) 2-chloroethyl vinyl ether	10.01	106	101290	10.66	ppb		96
31) cis-1,3-dichloropropene	10.23	75	325449	10.46	ppb		97
32) 4-methyl-2-pentanone	10.52	43	293086	10.63	ppb	#	91
34) toluene	10.77	92	662435	10.22	ppb		100
35) Iodomethane	3.65	142	261412	9.84	ppb		93
36) trans-1,3-dichloropropene	11.17	75	239832	10.11	ppb		97
37) Vinyl acetate	5.39	86	55266	26.85	ppb		88
38) Carbon disulfide	3.74	76	922957	9.99	ppb		98
40) 1,1,2-trichloroethane	11.47	83	105853	10.14	ppb		92
41) tetrachloroethene	11.69	166	242760	10.15	ppb		96
42) 1,3-dichloropropane	11.74	76	243413	10.37	ppb		92
43) 2-hexanone	11.94	43	250921	10.63	ppb		99
44) dibromochloromethane	12.12	129	119218	10.35	ppb		98
45) 1,2-dibromoethane	12.29	107	106620	10.08	ppb		99
46) chlorobenzene	13.16	112	577414	10.28	ppb		98
47) 1,1,1,2-tetrachloroethane	13.32	131	148152	10.26	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714307.D Vial: 7
Acq On : 14 Jul 2005 3:20 pm Operator: JTF
Sample : vstd10 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

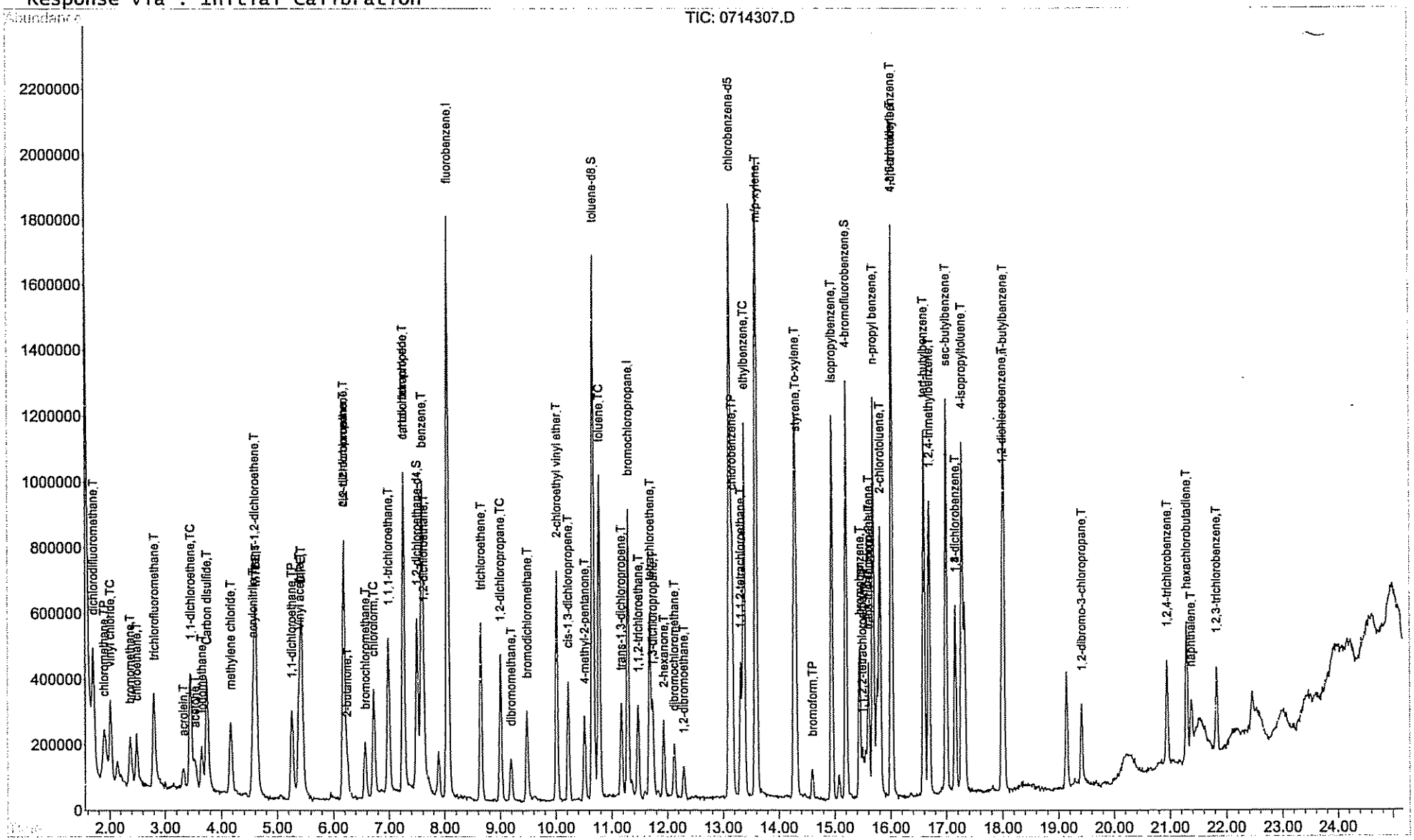
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	bromoform	14.61	173	61128	9.97	ppb		95
50)	bromobenzene	15.44	156	157866	9.86	ppb		93
51)	1,1,2,2-tetrachloroethane	15.50	83	127295	10.88	ppb		87
52)	1,2,3-trichloropropane	15.60	75	148349	9.56	ppb	#	87
54)	ethylbenzene	13.37	91	1299533	10.43	ppb		100
55)	m/p-xylene	13.59	106	876683	20.60	ppb		98
56)	styrene	14.31	104	530714	10.32	ppb		100
57)	o-xylene	14.28	106	379291	10.14	ppb		100
58)	isopropylbenzene	14.94	105	1193809	10.37	ppb		100
59)	n-propyl benzene	15.68	91	1515996	10.56	ppb		99
60)	2-chlorotoluene	15.81	126	192529	10.27	ppb		94
61)	4-chlorotoluene	16.02	126	192932	10.75	ppb		92
62)	1,3,5-trimethylbenzene	16.02	105	890620	10.23	ppb		100
63)	tert-butylbenzene	16.59	119	730228	10.01	ppb		99
64)	1,2,4-trimethylbenzene	16.69	105	827793	10.21	ppb		99
65)	sec-butylbenzene	16.99	105	1312536	10.52	ppb		99
66)	1,3-dichlorobenzene	17.15	146	321843	10.53	ppb		98
67)	4-isopropyltoluene	17.27	119	905320	10.25	ppb		97
68)	1,4-dichlorobenzene	17.15	146	321843	10.53	ppb		98
69)	1,2-dichlorobenzene	17.99	146	252803	10.57	ppb		96
70)	n-butylbenzene	18.02	91	1011766	10.28	ppb		99
71)	1,2-dibromo-3-chloropropan	19.42	75	106832	50.34	ppb		92
72)	1,2,4-trichlorobenzene	20.95	180	145139	10.83	ppb		95
73)	hexachlorobutadiene	21.29	225	99212	11.39	ppb		94
74)	naphthalene	21.37	128	186858	10.85	ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	80288	48.60	ppb	#	71
76)	1,2,3-trichlorobenzene	21.82	180	111276	10.84	ppb		92
77)	MTBE	4.63	73	475774	10.24	ppb		92
78)	DIPE	5.43	45	919394	10.18	ppb		94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714307.D Vial: 7
Acq On : 14 Jul 2005 3:20 pm Operator: JTF
Sample : vstd10 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714308.D Vial: 8
Acq On : 14 Jul 2005 3:51 pm Operator: JTF
Sample : vstd20 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.06	96	2334672	50.00	ppb		0.00
39) bromochloropropane	11.28	79	251142	50.00	ppb		-0.02
53) chlorobenzene-d5	13.12	117	1441342	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.51	65	562796	49.07	ppb		0.00
Spiked Amount 50.000			Recovery	=	98.14%		
33) toluene-d8	10.66	98	1672022	50.40	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.80%		
49) 4-bromofluorobenzene	15.21	95	724327	52.55	ppb		0.00
Spiked Amount 50.000			Recovery	=	105.10%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	811668	18.23	ppb		100
3) chloromethane	1.90	50	697261	18.75	ppb		97
4) vinyl chloride	2.02	62	805652	18.58	ppb		97
5) bromomethane	2.37	94	332995	21.63	ppb		92
6) chloroethane	2.49	64	409848	25.69	ppb		97
7) trichlorofluoromethane	2.80	101	843381	18.99	ppb		96
8) acrolein	3.33	56	191677	180.87	ppb		98
9) 1,1-dichloroethene	3.46	96	510466	20.74	ppb		89
10) acetone	3.54	43	316576	18.78	ppb		99
11) methylene chloride	4.18	84	383364	20.51	ppb		95
12) trans-1,2-dichloroethene	4.60	96	534896	20.62	ppb		92
13) acrylonitrile	4.56	53	623720	173.35	ppb		99
14) 1,1-dichloroethane	5.26	63	1067135	20.77	ppb		98
15) 2,2-dichloropropane	6.19	77	993915	20.66	ppb		99
16) cis-1,2-dichloroethene	6.20	96	516421	20.82	ppb		97
17) 2-butanone	6.26	43	379948	21.05	ppb		97
18) bromochloromethane	6.57	128	127204	20.52	ppb		88
19) chloroform	6.73	83	909747	20.77	ppb		95
20) 1,1,1-trichloroethane	6.99	97	937047	20.39	ppb		96
21) carbon tetrachloride	7.25	117	765236	20.61	ppb		99
22) 1,1-dichloropropene	7.26	75	919323	20.53	ppb		99
24) benzene	7.59	78	2347625	20.26	ppb		98
25) 1,2-dichloroethane	7.63	62	540050	21.05	ppb		98
26) trichloroethene	8.65	95	587554	20.43	ppb		93
27) 1,2-dichloropropane	9.01	63	499211	20.25	ppb	#	98
28) dibromomethane	9.19	93	172866	20.90	ppb		95
29) bromodichloromethane	9.48	83	542553	20.96	ppb	#	94
30) 2-chloroethyl vinyl ether	10.02	106	187891	17.89	ppb		97
31) cis-1,3-dichloropropene	10.23	75	632738	20.70	ppb		96
32) 4-methyl-2-pentanone	10.52	43	554761	20.49	ppb		99
34) toluene	10.77	92	1310102	20.58	ppb		98
35) Iodomethane	3.65	142	536747	20.57	ppb		96
36) trans-1,3-dichloropropene	11.18	75	501276	21.52	ppb		100
37) Vinyl acetate	5.39	86	109000	53.92	ppb		90
38) Carbon disulfide	3.74	76	1850880	20.40	ppb	#	97
40) 1,1,2-trichloroethane	11.47	83	212348	21.49	ppb		97
41) tetrachloroethene	11.70	166	486151	21.46	ppb		95
42) 1,3-dichloropropane	11.75	76	464141	20.87	ppb		100
43) 2-hexanone	11.94	43	477052	21.34	ppb		95
44) dibromochloromethane	12.13	129	231772	21.25	ppb		98
45) 1,2-dibromoethane	12.30	107	216895	21.65	ppb	#	94
46) chlorobenzene	13.17	112	1138970	21.41	ppb		96
47) 1,1,1,2-tetrachloroethane	13.33	131	293369	21.46	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714308.D Vial: 8
Acq On : 14 Jul 2005 3:51 pm Operator: JTF
Sample : vstd20 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

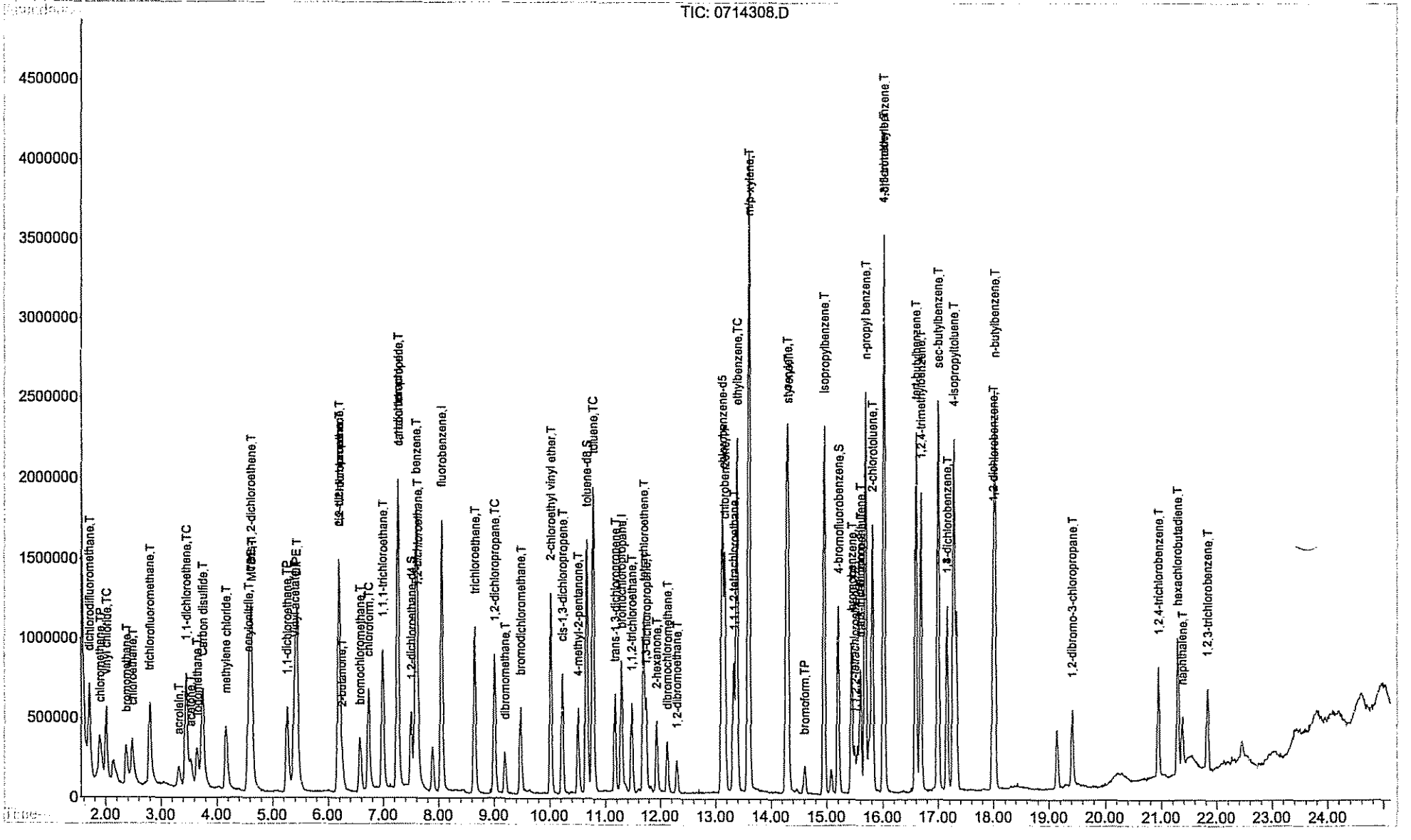
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	bromoform	14.61	173	122860	21.16 ppb	95
50)	bromobenzene	15.44	156	327345	21.59 ppb	91
51)	1,1,2,2-tetrachloroethane	15.50	83	237022	21.40 ppb	97
52)	1,2,3-trichloropropane	15.60	75	324233	22.07 ppb	98
54)	ethylbenzene	13.38	91	2558539	20.68 ppb	99
55)	m/p-xylene	13.59	106	1741410	41.19 ppb	99
56)	styrene	14.31	104	1042895	20.41 ppb	100
57)	o-xylene	14.28	106	765915	20.62 ppb	100
58)	isopropylbenzene	14.95	105	2366089	20.68 ppb	100
59)	n-propyl benzene	15.69	91	3088182	21.65 ppb	99
60)	2-chlorotoluene	15.81	126	390298	20.95 ppb	98
61)	4-chlorotoluene	16.02	126	386655	21.70 ppb	89
62)	1,3,5-trimethylbenzene	16.03	105	1817984	21.02 ppb	100
63)	tert-butylbenzene	16.60	119	1506621	20.79 ppb	99
64)	1,2,4-trimethylbenzene	16.69	105	1713985	21.28 ppb	100
65)	sec-butylbenzene	16.99	105	2675200	21.58 ppb	100
66)	1,3-dichlorobenzene	17.16	146	660983	21.77 ppb	96
67)	4-isopropyltoluene	17.28	119	1886919	21.50 ppb	98
68)	1,4-dichlorobenzene	17.16	146	660983	21.77 ppb	96
69)	1,2-dichlorobenzene	17.99	146	512494	21.58 ppb	99
70)	n-butylbenzene	18.02	91	2081579	21.28 ppb	99
71)	1,2-dibromo-3-chloropropan	19.42	75	234286	111.14 ppb	95
72)	1,2,4-trichlorobenzene	20.95	180	295981	22.24 ppb	96
73)	hexachlorobutadiene	21.29	225	209405	23.82 ppb	95
74)	naphthalene	21.38	128	361142	22.52 ppb	100
75)	trans-1,4-Dichloro-2-buten	15.60	89	163849	99.83 ppb	94
76)	1,2,3-trichlorobenzene	21.83	180	229665	22.52 ppb	94
77)	MTBE	4.63	73	937607	20.31 ppb	98
78)	DIPE	5.44	45	1870706	20.84 ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714308.D Vial: 8
Acq On : 14 Jul 2005 3:51 pm Operator: JTF
Sample : vstd20 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714309.D Vial: 9
Acq On : 14 Jul 2005 4:23 pm Operator: JTF
Sample : vstd50 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.06	96	2258627	50.00 ppb	0.00
39) bromochloropropane	11.30	79	247611	50.00 ppb	0.00
53) chlorobenzene-d5	13.12	117	1342270	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.51	65	539695	48.64 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.28%	
33) toluene-d8	10.67	98	1596954	49.76 ppb	0.00
Spiked Amount 50.000			Recovery	= 99.52%	
49) 4-bromofluorobenzene	15.20	95	664174	48.87 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.74%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.71	85	2286404	53.07 ppb	100
3) chloromethane	1.91	50	1917193	53.30 ppb	100
4) vinyl chloride	2.01	62	2251046	53.65 ppb	100
5) bromomethane	2.36	94	711423	55.85 ppb	100
6) chloroethane	2.48	64	1093900	84.12 ppb	99
7) trichlorofluoromethane	2.79	101	2377545	55.32 ppb	100
8) acrolein	3.33	56	542159	528.83 ppb	100
9) 1,1-dichloroethene	3.46	96	1118539	46.97 ppb	100
10) acetone	3.54	43	687370	51.72 ppb	100
11) methylene chloride	4.17	84	874984	48.39 ppb	100
12) trans-1,2-dichloroethene	4.61	96	1223624	48.75 ppb	100
13) acrylonitrile	4.57	53	1766990	497.79 ppb	100
14) 1,1-dichloroethane	5.27	63	2444100	49.18 ppb	100
15) 2,2-dichloropropane	6.18	77	2271964	48.83 ppb	100
16) cis-1,2-dichloroethene	6.20	96	1144303	47.68 ppb	100
17) 2-butanone	6.26	43	802560	45.95 ppb	100
18) bromochloromethane	6.58	128	300334	50.08 ppb	100
19) chloroform	6.74	83	2062526	48.67 ppb	100
20) 1,1,1-trichloroethane	6.99	97	2172048	48.85 ppb	100
21) carbon tetrachloride	7.26	117	1770144	49.29 ppb	100
22) 1,1-dichloropropene	7.27	75	2077480	47.96 ppb	100
24) benzene	7.59	78	5301575	47.30 ppb	100
25) 1,2-dichloroethane	7.63	62	1204235	48.52 ppb	100
26) trichloroethene	8.66	95	1350782	48.54 ppb	100
27) 1,2-dichloropropane	9.01	63	1161122	48.70 ppb	100
28) dibromomethane	9.20	93	391210	48.89 ppb	100
29) bromodichloromethane	9.49	83	1260557	50.33 ppb	100
30) 2-chloroethyl vinyl ether	10.02	106	541113	48.25 ppb	100
31) cis-1,3-dichloropropene	10.24	75	1438921	48.67 ppb	100
32) 4-methyl-2-pentanone	10.52	43	1288472	49.19 ppb	100
34) toluene	10.78	92	2948389	47.87 ppb	100
35) Iodomethane	3.66	142	1393112	55.18 ppb	100
36) trans-1,3-dichloropropene	11.18	75	1081521	48.00 ppb	100
37) Vinyl acetate	5.40	86	234229	119.78 ppb	100
38) Carbon disulfide	3.75	76	4322039	49.24 ppb	100
40) 1,1,2-trichloroethane	11.48	83	478277	49.10 ppb	100
41) tetrachloroethene	11.70	166	1079530	48.34 ppb	100
42) 1,3-dichloropropane	11.75	76	1084682	49.48 ppb	100
43) 2-hexanone	11.94	43	1058961	48.05 ppb	100
44) dibromochloromethane	12.13	129	540141	50.24 ppb	100
45) 1,2-dibromoethane	12.31	107	479754	48.57 ppb	100
46) chlorobenzene	13.17	112	2540729	48.44 ppb	100
47) 1,1,1,2-tetrachloroethane	13.33	131	660632	49.02 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714309.D Vial: 9
Acq On : 14 Jul 2005 4:23 pm Operator: JTF
Sample : vstd50 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

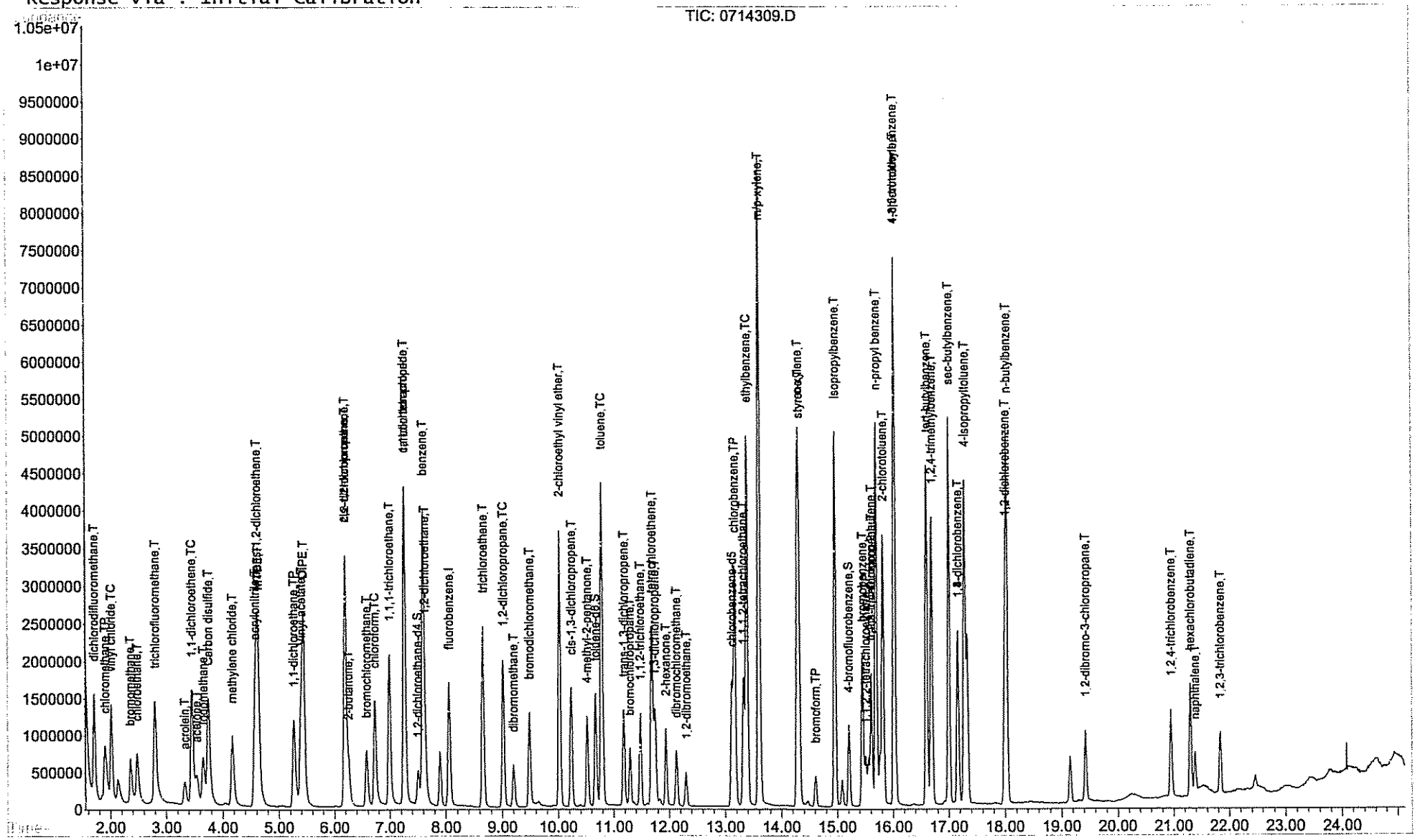
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	bromoform	14.61	173	282490	49.34 ppb	100
50)	bromobenzene	15.45	156	719496	48.13 ppb	100
51)	1,1,2,2-tetrachloroethane	15.51	83	540134	49.45 ppb	100
52)	1,2,3-trichloropropane	15.61	75	709666	49.00 ppb	100
54)	ethylbenzene	13.38	91	5758281	49.97 ppb	100
55)	m/p-xylene	13.60	106	3834970	97.40 ppb	100
56)	styrene	14.32	104	2302445	48.38 ppb	100
57)	o-xylene	14.29	106	1688429	48.81 ppb	100
58)	isopropylbenzene	14.96	105	5271079	49.48 ppb	100
59)	n-propyl benzene	15.70	91	6612025	49.77 ppb	100
60)	2-chlorotoluene	15.81	126	835831	48.19 ppb	100
61)	4-chlorotoluene	16.02	126	778192	46.89 ppb	100
62)	1,3,5-trimethylbenzene	16.02	105	3896524	48.38 ppb	100
63)	tert-butylbenzene	16.60	119	3199485	47.40 ppb	100
64)	1,2,4-trimethylbenzene	16.69	105	3513130	46.84 ppb	100
65)	sec-butylbenzene	17.00	105	5656171	48.99 ppb	100
66)	1,3-dichlorobenzene	17.17	146	1355737	47.94 ppb	100
67)	4-isopropyltoluene	17.28	119	3839695	46.98 ppb	100
68)	1,4-dichlorobenzene	17.17	146	1355737	47.94 ppb	100
69)	1,2-dichlorobenzene	17.99	146	1041793	47.10 ppb	100
70)	n-butylbenzene	18.02	91	4243133	46.58 ppb	100
71)	1,2-dibromo-3-chloropropan	19.42	75	432865	220.49 ppb	99
72)	1,2,4-trichlorobenzene	20.95	180	519262	41.90 ppb	100
73)	hexachlorobutadiene	21.30	225	345796	41.98 ppb	100
74)	naphthalene	21.38	128	620592	42.81 ppb	100
75)	trans-1,4-Dichloro-2-buten	15.61	89	379540	248.32 ppb	100
76)	1,2,3-trichlorobenzene	21.84	180	385649	40.61 ppb	100
77)	MTBE	4.64	73	2130566	49.57 ppb	100
78)	DIPE	5.44	45	4232720	50.64 ppb	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714309.D Vial: 9
Acq On : 14 Jul 2005 4:23 pm Operator: JTF
Sample : vstd50 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714310.D Vial: 10
Acq On : 14 Jul 2005 4:54 pm Operator: JTF
Sample : vstd100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	2482980	50.00	ppb	-0.01
39) bromochloropropane	11.29	79	288138	50.00	ppb	-0.01
53) chlorobenzene-d5	13.11	117	1532012	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.49	65	627024	51.40	ppb	-0.02
Spiked Amount 50.000			Recovery = 102.80%			
33) toluene-d8	10.66	98	1758985	49.85	ppb	-0.01
Spiked Amount 50.000			Recovery = 99.70%			
49) 4-bromofluorobenzene	15.20	95	790187	49.96	ppb	0.00
Spiked Amount 50.000			Recovery = 99.92%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.70	85	5137890	108.49	ppb	98
3) chloromethane	1.91	50	4101819	103.73	ppb	99
4) vinyl chloride	2.01	62	4993622	108.26	ppb	99
5) bromomethane	2.35	94	1289531	96.43	ppb	97
6) chloroethane	2.46	64	1375140	97.27	ppb	99
7) trichlorofluoromethane	2.77	101	5235090	110.81	ppb	99
8) acrolein	3.32	56	1255701	1114.15	ppb	99
9) 1,1-dichloroethene	3.44	96	2532587	96.74	ppb	96
10) acetone	3.55	43	1542699	113.61	ppb	96
11) methylene chloride	4.16	84	1975190	99.37	ppb	94
12) trans-1,2-dichloroethene	4.60	96	2726566	98.82	ppb	95
13) acrylonitrile	4.57	53	4228019	1077.46	ppb	98
14) 1,1-dichloroethane	5.26	63	5479025	100.29	ppb	99
15) 2,2-dichloropropane	6.18	77	4948395	96.73	ppb	99
16) cis-1,2-dichloroethene	6.19	96	2530354	95.90	ppb	97
17) 2-butanone	6.25	43	1956303	101.89	ppb	98
18) bromochloromethane	6.57	128	675104	102.40	ppb	88
19) chloroform	6.73	83	4694279	100.76	ppb	99
20) 1,1,1-trichloroethane	6.98	97	4915387	100.56	ppb	98
21) carbon tetrachloride	7.25	117	4095463	103.73	ppb	98
22) 1,1-dichloropropene	7.26	75	4729658	99.33	ppb	98
24) benzene	7.58	78	11832749	96.03	ppb	98
25) 1,2-dichloroethane	7.62	62	2728076	99.98	ppb	98
26) trichloroethene	8.65	95	3039314	99.35	ppb	95
27) 1,2-dichloropropane	9.00	63	2594972	99.00	ppb	99
28) dibromomethane	9.19	93	899429	102.25	ppb	93
29) bromodichloromethane	9.48	83	2805898	101.90	ppb	98
30) 2-chloroethyl vinyl ether	10.02	106	1326723	104.50	ppb	100
31) cis-1,3-dichloropropene	10.23	75	3293054	101.32	ppb	96
32) 4-methyl-2-pentanone	10.52	43	3064748	106.42	ppb	98
34) toluene	10.78	92	6742796	99.59	ppb	100
35) Iodomethane	3.64	142	2991241	107.78	ppb	99
36) trans-1,3-dichloropropene	11.17	75	2526232	101.98	ppb	98
37) Vinyl acetate	5.38	86	591856	275.32	ppb	72
38) Carbon disulfide	3.73	76	9665500	100.17	ppb	98
40) 1,1,2-trichloroethane	11.47	83	1130560	99.74	ppb	96
41) tetrachloroethene	11.69	166	2501560	96.26	ppb	99
42) 1,3-dichloropropane	11.74	76	2540038	99.57	ppb	98
43) 2-hexanone	11.94	43	2474916	96.51	ppb	98
44) dibromochloromethane	12.13	129	1253380	100.17	ppb	98
45) 1,2-dibromoethane	12.30	107	1152704	100.28	ppb	93
46) chlorobenzene	13.16	112	5826717	95.47	ppb	96
47) 1,1,1,2-tetrachloroethane	13.32	131	1524307	97.21	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714310.D Vial: 10
Acq On : 14 Jul 2005 4:54 pm Operator: JTF
Sample : vstd100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

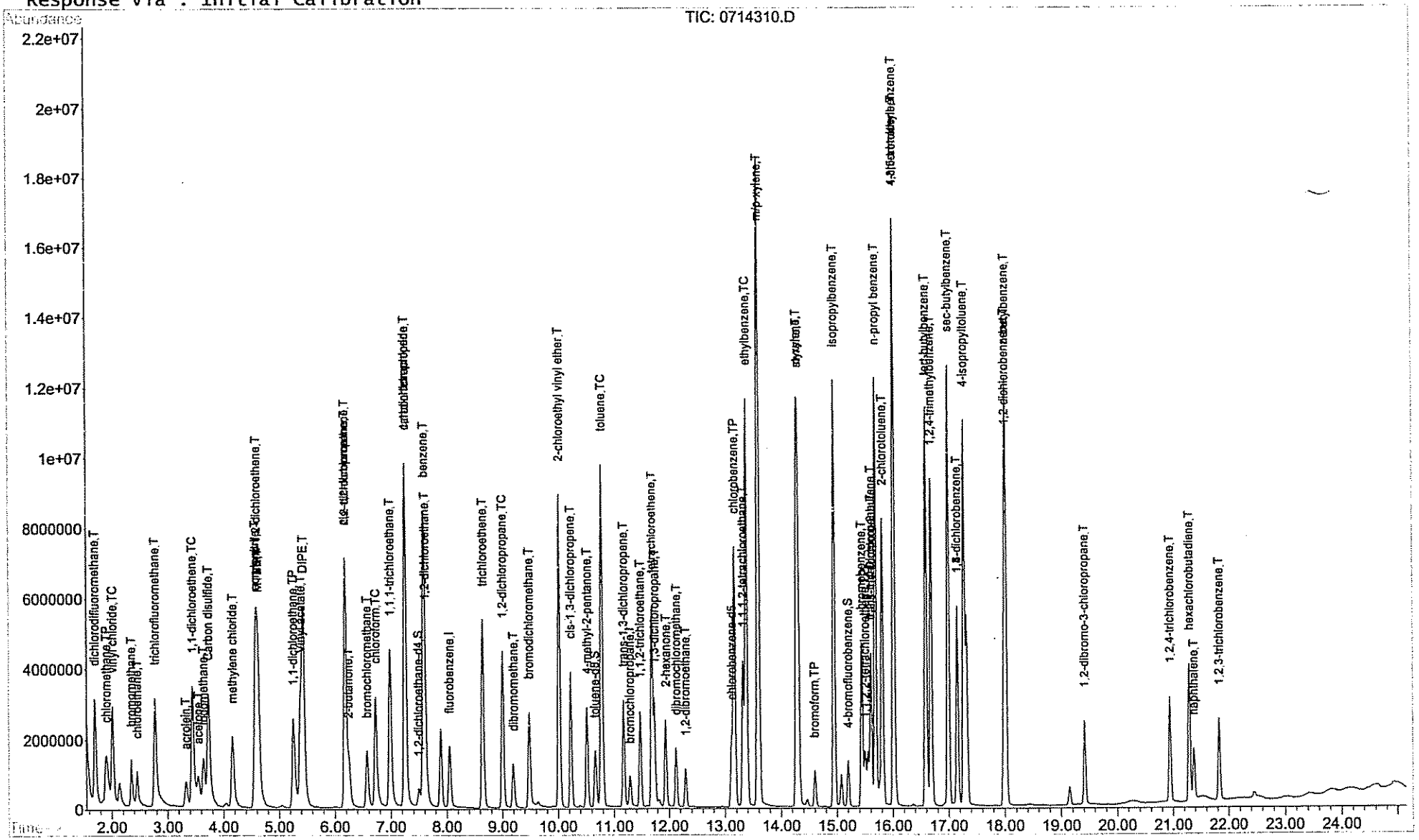
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	bromoform	14.60	173	714494	107.24 ppb	95
50)	bromobenzene	15.45	156	1692575	97.31 ppb	93
51)	1,1,2,2-tetrachloroethane	15.50	83	1315137	103.48 ppb	95
52)	1,2,3-trichloropropane	15.61	75	1767140	104.86 ppb	98
54)	ethylbenzene	13.38	91	13609990	103.47 ppb	99
55)	m/p-xylene	13.60	106	8833716	196.56 ppb	99
56)	styrene	14.31	104	5471585	100.74 ppb	100
57)	o-xylene	14.28	106	3939515	99.77 ppb	99
58)	isopropylbenzene	14.95	105	12675136	104.25 ppb	99
59)	n-propyl benzene	15.69	91	15911201	104.94 ppb	100
60)	2-chlorotoluene	15.81	126	1915670	96.76 ppb	96
61)	4-chlorotoluene	16.01	126	1817395	95.94 ppb	99
62)	1,3,5-trimethylbenzene	16.02	105	9208213	100.18 ppb	100
63)	tert-butylbenzene	16.59	119	7868923	102.15 ppb	100
64)	1,2,4-trimethylbenzene	16.68	105	8585314	100.30 ppb	96
65)	sec-butylbenzene	17.00	105	13987822	106.14 ppb	98
66)	1,3-dichlorobenzene	17.16	146	3231732	100.13 ppb	99
67)	4-isopropyltoluene	17.27	119	9500772	101.86 ppb	99
68)	1,4-dichlorobenzene	17.16	146	3231732	100.13 ppb	99
69)	1,2-dichlorobenzene	17.99	146	2503474	99.16 ppb	98
70)	n-butylbenzene	18.02	91	10625212	102.20 ppb	99
71)	1,2-dibromo-3-chloropropan	19.41	75	1150783	513.59 ppb	95
72)	1,2,4-trichlorobenzene	20.94	180	1390661	98.32 ppb	98
73)	hexachlorobutadiene	21.30	225	1008061	106.70 ppb	97
74)	naphthalene	21.37	128	1686154	103.95 ppb	100
75)	trans-1,4-Dichloro-2-buten	15.61	89	968938	555.42 ppb	93
76)	1,2,3-trichlorobenzene	21.83	180	1061997	97.98 ppb	98
77)	MTBE	4.63	73	5076849	103.48 ppb	98
78)	DIPE	5.43	45	9246601	96.92 ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714310.D Vial: 10
Acq On : 14 Jul 2005 4:54 pm Operator: JTF
Sample : vstd100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:46 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714311.D Vial: 11
Acq On : 14 Jul 2005 5:25 pm Operator: JTF
Sample : vstd200 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:47 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.06	96	2589552	50.00	ppb	0.00
39) bromochloropropane	11.29	79	294789	50.00	ppb	-0.01
53) chlorobenzene-d5	13.11	117	1528439	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	614580	48.31	ppb	-0.01
Spiked Amount 50.000			Recovery	=	96.62%	
33) toluene-d8	10.66	98	1802531	48.98	ppb	-0.01
Spiked Amount 50.000			Recovery	=	97.96%	
49) 4-bromofluorobenzene	15.20	95	761598	47.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	94.14%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	10569107	213.99	ppb		95
3) chloromethane	1.90	50	8622226	209.07	ppb		98
4) vinyl chloride	2.01	62	10493664	218.14	ppb		96
5) bromomethane	2.34	94	2699409	200.28	ppb		95
6) chloroethane	2.45	64	1818126	125.33	ppb		99
7) trichlorofluoromethane	2.74	101	9897813	200.88	ppb		99
8) acrolein	3.33	56	2334939	1986.47	ppb		98
9) 1,1-dichloroethene	3.42	96	5095621	186.63	ppb		96
10) acetone	3.56	43	2663307	193.11	ppb		98
11) methylene chloride	4.15	84	3964104	191.21	ppb		99
12) trans-1,2-dichloroethene	4.59	96	5489428	190.77	ppb		94
13) acrylonitrile	4.58	53	8058376	1964.84	ppb		99
14) 1,1-dichloroethane	5.26	63	11056561	194.05	ppb		100
15) 2,2-dichloropropane	6.18	77	9954353	186.58	ppb		99
16) cis-1,2-dichloroethene	6.19	96	5101191	185.38	ppb		93
17) 2-butanone	6.27	43	3465860	173.08	ppb		97
18) bromochloromethane	6.57	128	1337051	194.46	ppb		82
19) chloroform	6.73	83	9484668	195.21	ppb		99
20) 1,1,1-trichloroethane	6.98	97	9942743	195.04	ppb		95
21) carbon tetrachloride	7.25	117	8335303	202.44	ppb		97
22) 1,1-dichloropropene	7.26	75	9567840	192.67	ppb		99
24) benzene	7.58	78	22873539	178.00	ppb		96
25) 1,2-dichloroethane	7.62	62	5349250	187.98	ppb		99
26) trichloroethene	8.65	95	6217042	194.86	ppb		93
27) 1,2-dichloropropane	9.00	63	5239023	191.64	ppb		99
28) dibromomethane	9.19	93	1734346	189.04	ppb		95
29) bromodichloromethane	9.49	83	5642879	196.50	ppb		99
30) 2-chloroethyl vinyl ether	10.03	106	2657341	198.36	ppb		99
31) cis-1,3-dichloropropene	10.22	75	6571112	193.85	ppb		98
32) 4-methyl-2-pentanone	10.52	43	5692017	189.52	ppb		98
34) toluene	10.78	92	13783457	195.21	ppb	#	75
35) Iodomethane	3.63	142	5879562	203.13	ppb		98
36) trans-1,3-dichloropropene	11.17	75	5092194	197.11	ppb		100
37) Vinyl acetate	5.38	86	1004302	447.95	ppb		78
38) Carbon disulfide	3.72	76	19782458	196.58	ppb		98
40) 1,1,2-trichloroethane	11.48	83	2237298	192.92	ppb		98
41) tetrachloroethene	11.70	166	5112110	192.28	ppb		95
42) 1,3-dichloropropane	11.75	76	4962769	190.15	ppb		99
43) 2-hexanone	11.94	43	4534855	172.84	ppb		99
44) dibromochloromethane	12.13	129	2402281	187.67	ppb		95
45) 1,2-dibromoethane	12.29	107	2257991	192.00	ppb		96
46) chlorobenzene	13.17	112	11717388	187.65	ppb		98
47) 1,1,1,2-tetrachloroethane	13.32	131	3022382	188.39	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3071405\0714311.D Vial: 11
Acq On : 14 Jul 2005 5:25 pm Operator: JTF
Sample : vstd200 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:47 2005 Quant Results File: 8260SSC.RES

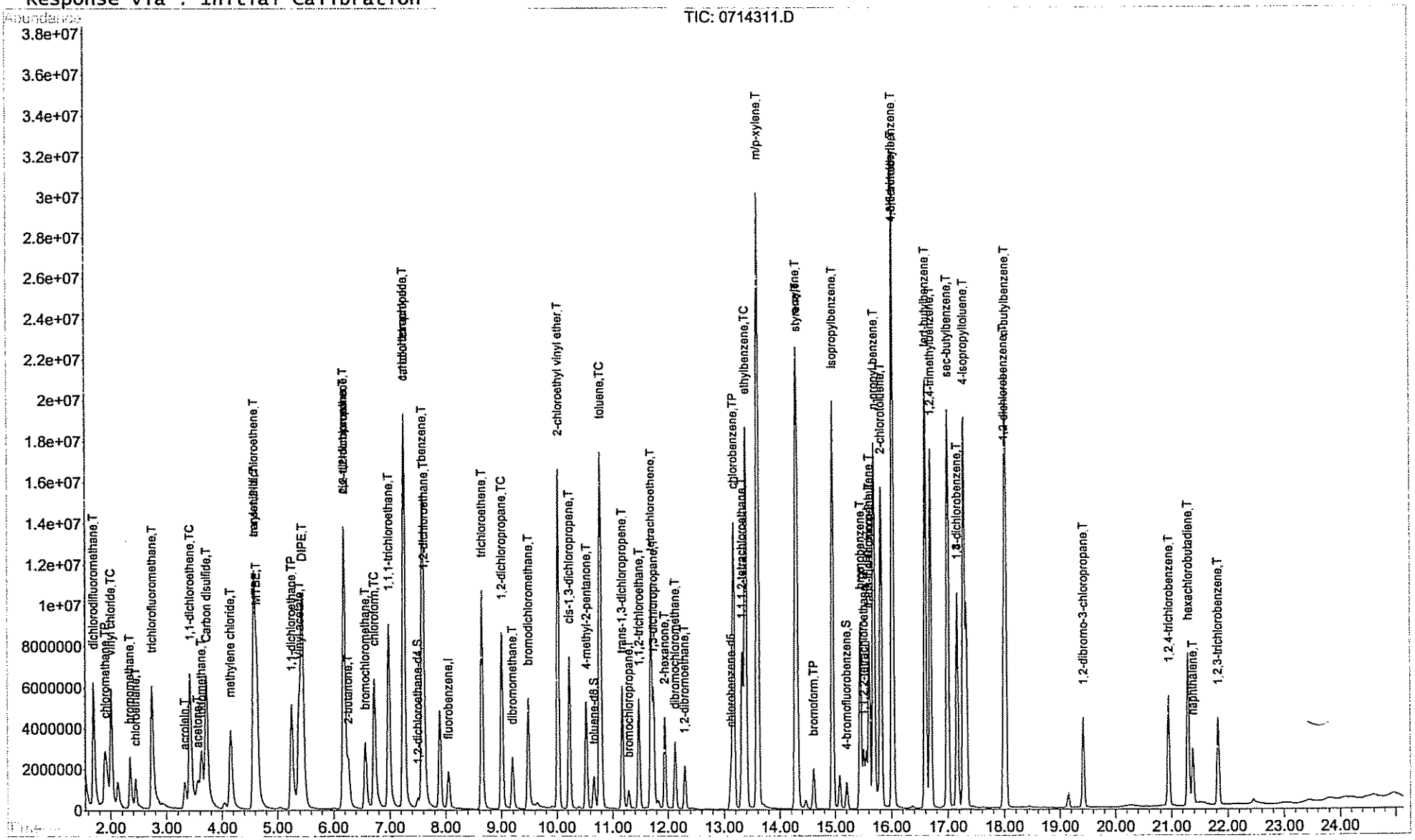
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.61	173	1368780	200.81 ppb		100
50)	bromobenzene	15.45	156	3310842	186.04 ppb		97
51)	1,1,2,2-tetrachloroethane	15.51	83	2442525	187.85 ppb		95
52)	1,2,3-trichloropropane	15.61	75	3590458	208.25 ppb		99
54)	ethylbenzene	13.38	91	22059460	168.10 ppb	#	88
55)	m/p-xylene	13.60	106	17498534	390.28 ppb	#	56
56)	styrene	14.32	104	10732013	198.06 ppb		100
57)	o-xylene	14.29	106	7726171	196.13 ppb		99
58)	isopropylbenzene	14.96	105	20972804	172.89 ppb		92
59)	n-propyl benzene	15.69	91	22549345	149.06 ppb	#	85
60)	2-chlorotoluene	15.82	126	3628319	183.70 ppb		92
61)	4-chlorotoluene	16.02	126	3396036	179.69 ppb		95
62)	1,3,5-trimethylbenzene	16.02	105	17251049	188.11 ppb		99
63)	tert-butylbenzene	16.60	119	15276295	198.77 ppb		100
64)	1,2,4-trimethylbenzene	16.69	105	16391015	191.93 ppb		99
65)	sec-butylbenzene	17.00	105	21237626	161.53 ppb	#	81
66)	1,3-dichlorobenzene	17.16	146	6081013	188.84 ppb		100
67)	4-isopropyltoluene	17.28	119	17176356	184.58 ppb		94
68)	1,4-dichlorobenzene	17.16	146	6081013	188.84 ppb		100
69)	1,2-dichlorobenzene	17.99	146	4627463	183.72 ppb		99
70)	n-butylbenzene	18.02	91	18342252	176.84 ppb	#	90
71)	1,2-dibromo-3-chloropropan	19.42	75	2033318	909.58 ppb		94
72)	1,2,4-trichlorobenzene	20.95	180	2543599	180.25 ppb		94
73)	hexachlorobutadiene	21.30	225	1871470	198.26 ppb		99
74)	naphthalene	21.37	128	3207099	199.52 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.61	89	1797253	1032.64 ppb		94
76)	1,2,3-trichlorobenzene	21.83	180	1974874	182.64 ppb		97
77)	MTBE	4.64	73	9750579	199.21 ppb		98
78)	DIPE	5.44	45	18379826	193.11 ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3071405\0714311.D Vial: 11
Acq On : 14 Jul 2005 5:25 pm Operator: JTF
Sample : vstd200 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:47 2005 Quant Results File: 8260SSC.RES

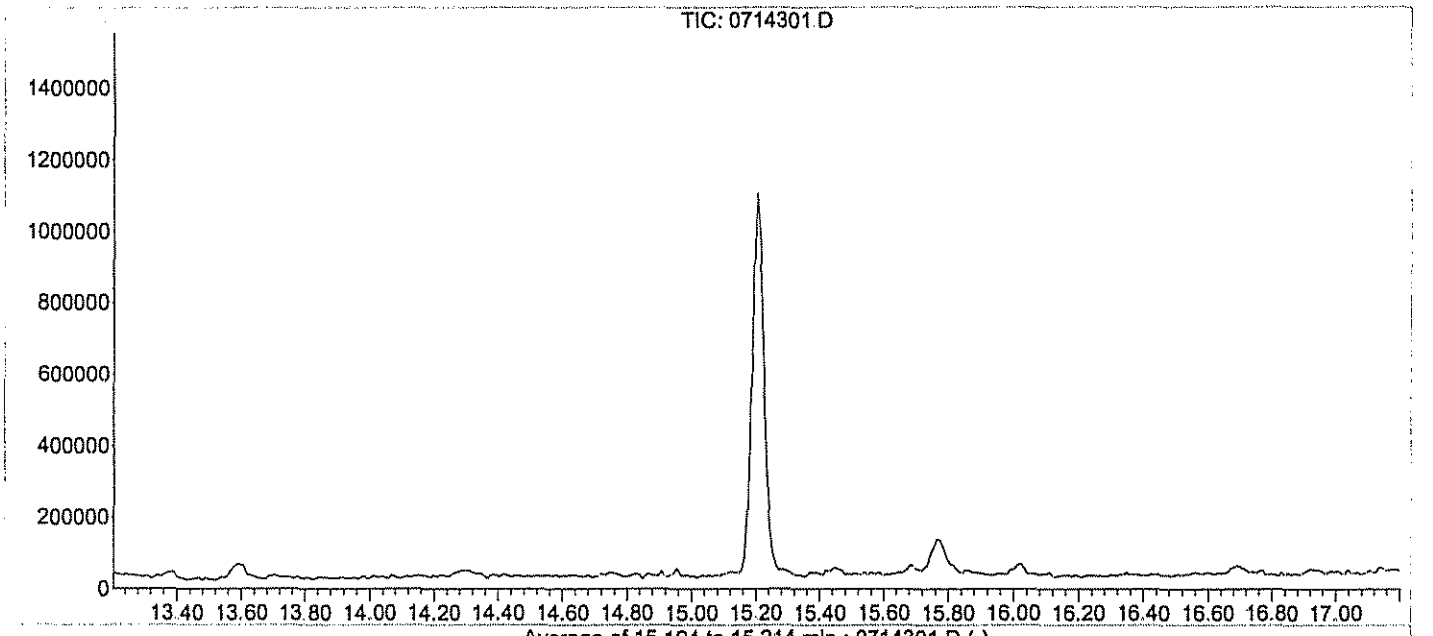
Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration

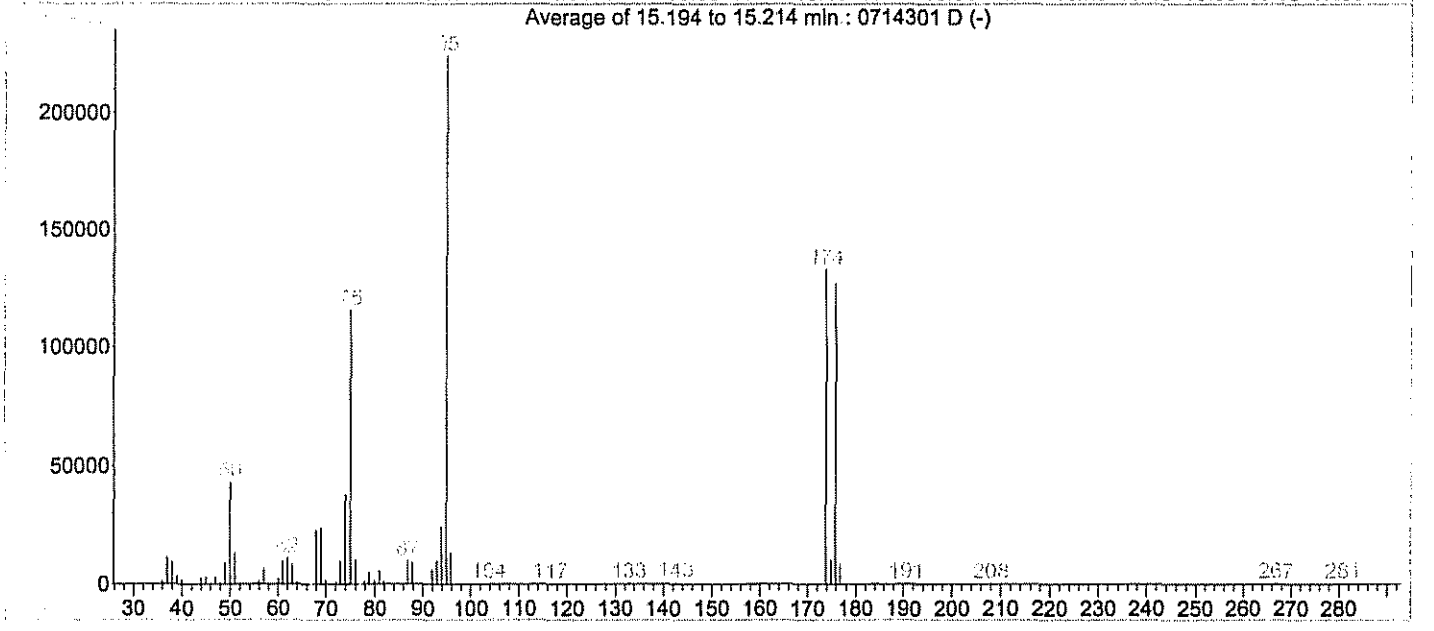


5035 Tuning

BFB

Data File : C:\HPCHEM\1\DATA\3071405\0714301.D Vial: 1
Acq On : 14 Jul 2005 7:22 am Operator: JTF
Sample : bfb 50ng Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\3071405\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX





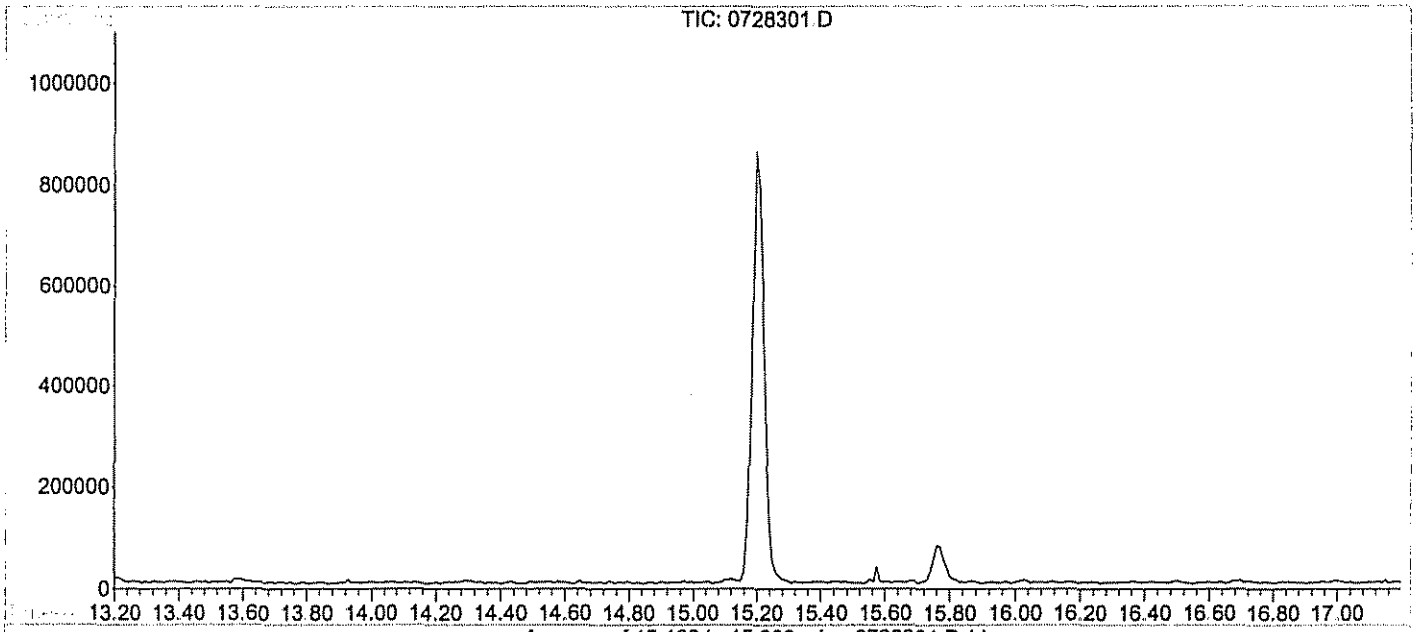
AutoFind: Scans 1385, 1386, 1387; Background Corrected with Scan 1378

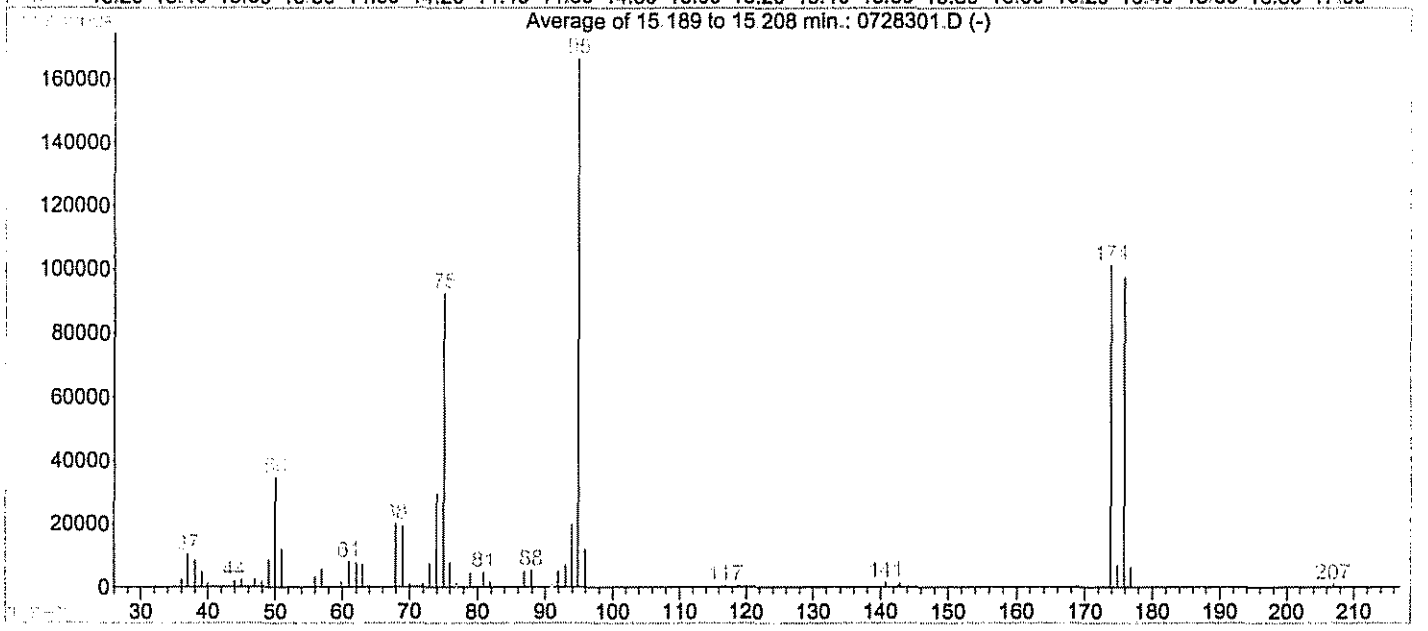
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	42971	PASS
75	95	30	60	51.7	115616	PASS
95	95	100	100	100.0	223787	PASS
96	95	5	9	6.0	13343	PASS
173	174	0.00	2	0.3	343	PASS
174	95	50	100	59.4	133003	PASS
175	174	5	9	7.6	10072	PASS
176	174	95	101	95.5	127029	PASS
177	176	5	9	6.4	8172	PASS

0714301.D 8260SSC.M Tue Aug 02 16:46:09 2005

BFB

Data File : C:\HPCHEM\1\DATA\3072805\0728301.D Vial: 1
Acq On : 28 Jul 2005 7:59 am Operator: JTF
Sample : bfb 50ng Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX





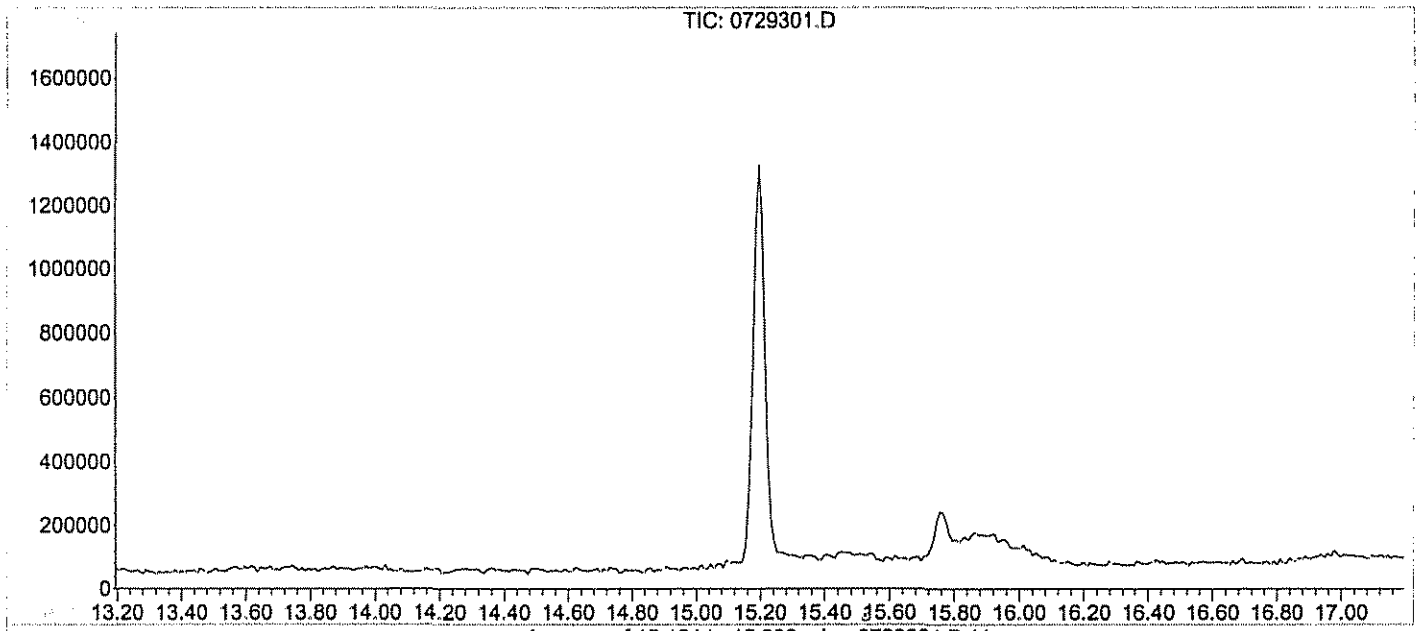
AutoFind: Scans 1384, 1385, 1386; Background Corrected with Scan 1378

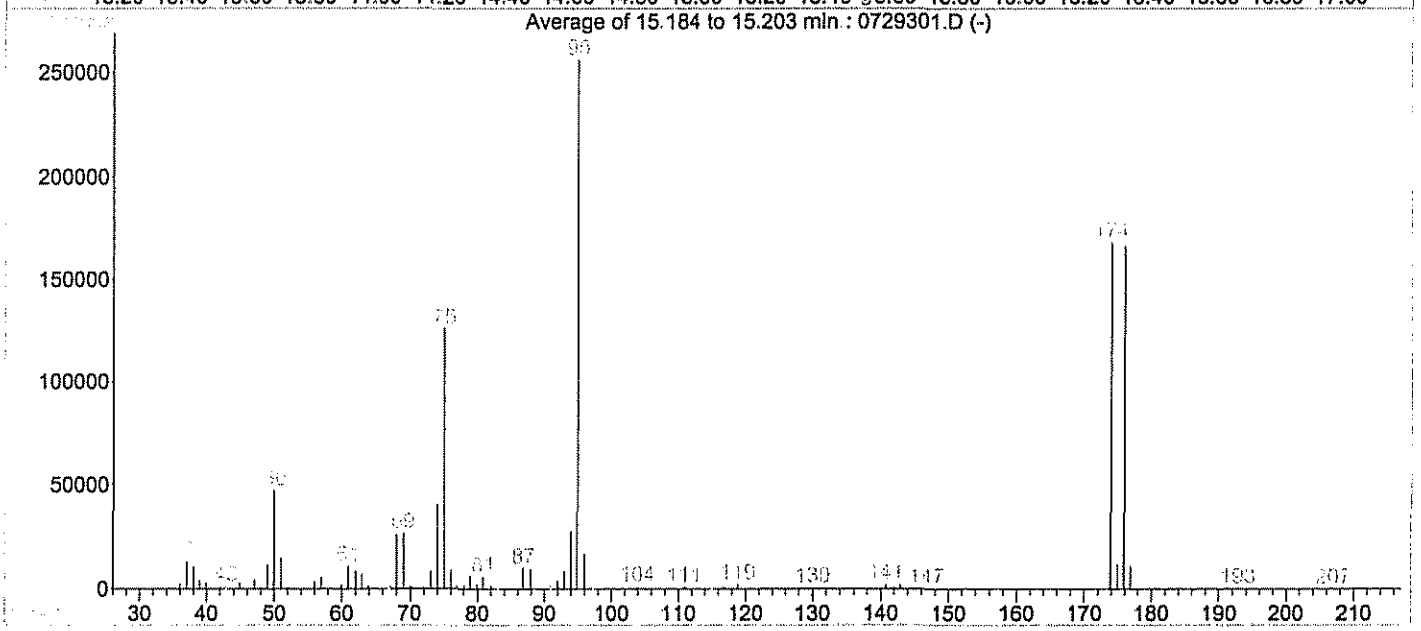
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	34752	PASS
75	95	30	60	55.5	92427	PASS
95	95	100	100	100.0	166443	PASS
96	95	5	9	7.0	11608	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.9	101371	PASS
175	174	5	9	6.8	6865	PASS
176	174	95	101	96.4	97696	PASS
177	176	5	9	6.4	6281	PASS

0728301.D 8260SSC.M Tue Aug 02 16:48:36 2005

BFB

Data File : C:\HPCHEM\1\DATA\3072905\0729301.D Vial: 1
Acq On : 29 Jul 2005 8:05 am Operator: JTF
Sample : bfb 50ng Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX





AutoFind: Scans 1383, 1384, 1385; Background Corrected with Scan 1376

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	47096	PASS
75	95	30	60	49.2	125947	PASS
95	95	100	100	100.0	256066	PASS
96	95	5	9	6.5	16767	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.6	167979	PASS
175	174	5	9	7.2	12105	PASS
176	174	95	101	99.0	166357	PASS
177	176	5	9	6.6	10947	PASS

0729301.D 8260SSC.M Tue Aug 02 16:50:16 2005

5035 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3072805\0728302.D Vial: 2
Acq On : 28 Jul 2005 8:29 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	69	0.00
2	T	dichlorodifluoromethane	0.954	1.220	-27.9#	81	0.00
3	TP	chloromethane	0.796	0.765	3.9	64	0.00
4	TC	vinyl chloride	0.929	0.810	12.8	56	0.00
5	T	bromomethane	0.333	0.341	-2.4	91	0.00
6	T	chloroethane	0.373	0.336	9.9	84	-0.02
7	T	trichlorofluoromethane	0.951	1.164	-22.4	76	0.00
8	T	acrolein	0.023	0.020	13.0	54	0.00
9	TC	1,1-dichloroethene	0.527	0.493	6.5	67	0.00
10	T	acetone	0.332	0.402	-21.1	89	0.00
11	T	methylene chloride	0.400	0.374	6.5	65	0.00
12	T	trans-1,2-dichloroethene	0.556	0.520	6.5	65	0.00
13	T	acrylonitrile	0.072	0.060	16.7	49#	0.00
14	TP	1,1-dichloroethane	1.100	1.017	7.5	64	0.00
15	T	2,2-dichloropropane	1.030	1.210	-17.5	84	0.00
16	T	cis-1,2-dichloroethene	0.531	0.484	8.9	66	0.00
17	T	2-butanone	0.387	0.441	-14.0	77	0.00
18	T	bromochloromethane	0.133	0.144	-8.3	73	0.00
19	TC	chloroform	0.938	1.008	-7.5	74	0.00
20	T	1,1,1-trichloroethane	0.984	1.132	-15.0	79	0.00
21	T	carbon tetrachloride	0.795	0.953	-19.9	80	0.00
22	T	1,1-dichloropropene	0.959	0.950	0.9	69	0.00
23	S	1,2-dichloroethane-d4	0.246	0.277	-12.6	76	-0.02
24	T	benzene	2.481	2.119	14.6	61	0.00
25	T	1,2-dichloroethane	0.549	0.577	-5.1	73	0.00
26	T	trichloroethene	0.616	0.607	1.5	69	0.00
27	TC	1,2-dichloropropane	0.528	0.436	17.4	58	0.00
28	T	dibromomethane	0.177	0.176	0.6	67	0.00
29	T	bromodichloromethane	0.554	0.622	-12.3	76	0.00
30	T	2-chloroethyl vinyl ether	0.221	0.233	-5.4	60	0.00
31	T	cis-1,3-dichloropropene	0.655	0.645	1.5	67	0.00
32	T	4-methyl-2-pentanone	0.580	0.601	-3.6	67	0.00
33	S	toluene-d8	0.711	0.740	-4.1	72	0.00
34	TC	toluene	1.363	1.259	7.6	64	0.00
35	T	Iodomethane	0.559	0.717	-28.3#	82	0.00
36	T	trans-1,3-dichloropropene	0.499	0.523	-4.8	71	0.00
37	T	Vinyl acetate	0.043	0.041	4.7	60	0.00
38	T	Carbon disulfide	1.943	1.784	8.2	63	0.00
39	I	bromochloropropane	1.000	1.000	0.0	62	0.00
40	T	1,1,2-trichloroethane	1.967	1.832	6.9	58	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3072805\0728302.D Vial: 2
Acq On : 28 Jul 2005 8:29 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	tetrachloroethene	4.510	5.183	-14.9	74	0.00
42	T	1,3-dichloropropane	4.427	4.334	2.1	61	0.00
43	T	2-hexanone	4.450	5.557	-24.9	81	0.00
44	T	dibromochloromethane	2.171	2.903	-33.7#	83	0.00
45	T	1,2-dibromoethane	1.995	1.941	2.7	60	0.00
46	TP	chlorobenzene	10.591	10.200	3.7	63	0.00
47	T	1,1,1,2-tetrachloroethane	2.721	3.690	-35.6#	87	0.00
48	TP	bromoform	1.156	1.442	-24.7	72	0.00
49	S	4-bromofluorobenzene	2.744	3.317	-20.9	75	0.00
50	T	bromobenzene	3.018	3.588	-18.9	76	0.00
51	TP	1,1,2,2-tetrachloroethane	2.205	2.274	-3.1	62	0.00
52	T	1,2,3-trichloropropane	2.924	3.064	-4.8	62	0.00
53		chlorobenzene-d5	1.000	1.000	0.0	69	0.00
54	TC	ethylbenzene	4.293	4.192	2.4	66	0.00
55	T	m/p-xylene	1.467	1.273	13.2	61	0.00
56	T	styrene	1.773	1.564	11.8	61	0.00
57	T	o-xylene	1.289	1.126	12.6	61	0.00
58	T	isopropylbenzene	3.968	3.765	5.1	63	0.00
59	T	n-propyl benzene	4.949	4.862	1.8	65	0.00
60	T	2-chlorotoluene	0.646	0.668	-3.4	74	0.00
61	T	4-chlorotoluene	0.618	0.644	-4.2	75	0.00
62	T	1,3,5-trimethylbenzene	3.000	2.841	5.3	66	0.00
63	T	tert-butylbenzene	2.514	2.476	1.5	67	0.00
64	T	1,2,4-trimethylbenzene	2.794	2.636	5.7	65	0.00
65	T	sec-butylbenzene	4.301	3.950	8.2	60	0.00
66	T	1,3-dichlorobenzene	1.053	1.145	-8.7	75	0.00
67	T	4-isopropyltoluene	3.044	2.941	3.4	66	0.00
68	T	1,4-dichlorobenzene	1.053	1.145	-8.7	75	0.00
69	T	1,2-dichlorobenzene	0.824	0.877	-6.4	75	0.00
70	T	n-butylbenzene	3.393	3.128	7.8	63	0.00
71	T	1,2-dibromo-3-chloropropane	0.073	0.071	2.7	66	0.00
72	T	1,2,4-trichlorobenzene	0.462	0.429	7.1	66	0.00
73	T	hexachlorobutadiene	0.292	0.372	-27.4#	78	0.00
74	T	naphthalene	0.587	0.560	4.6	71	0.00
75	T	trans-1,4-Dichloro-2-butene	0.057	0.058	-1.8	64	0.00
76	T	1,2,3-trichlorobenzene	0.354	0.309	12.7	62	0.00
77	T	MTBE	1.601	1.642	-2.6	69	0.00
78	T	DIPE	3.114	2.901	6.8	67	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728302.D Vial: 2
Acq On : 28 Jul 2005 8:29 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	1714765	50.00	ppb	0.00
39) bromochloropropane	11.29	79	179403	50.00	ppb	0.00
53) chlorobenzene-d5	13.12	117	1063950	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	475211	56.41	ppb	-0.02
Spiked Amount 50.000			Recovery	=	112.82%	
33) toluene-d8	10.66	98	1268704	52.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	104.14%	
49) 4-bromofluorobenzene	15.20	95	595024	60.43	ppb	0.00
Spiked Amount 50.000			Recovery	=	120.86%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.71	85	4182356	127.88	ppb		95
3) chloromethane	1.91	50	2624885	96.12	ppb	#	97
4) vinyl chloride	2.02	62	2779009	87.24	ppb		100
5) bromomethane	2.35	94	1168628	128.62	ppb		98
6) chloroethane	2.46	64	1153538	119.76	ppb		99
7) trichlorofluoromethane	2.78	101	3991132	122.32	ppb		97
8) acrolein	3.33	56	677654	870.63	ppb		98
9) 1,1-dichloroethene	3.46	96	1690946	93.53	ppb		96
10) acetone	3.54	43	1379778	149.41	ppb	#	85
11) methylene chloride	4.17	84	1281229	93.33	ppb		87
12) trans-1,2-dichloroethene	4.60	96	1784912	93.68	ppb		94
13) acrylonitrile	4.57	53	2074330	766.92	ppb		96
14) 1,1-dichloroethane	5.26	63	3486319	92.40	ppb		99
15) 2,2-dichloropropane	6.19	77	4148873	117.44	ppb		96
16) cis-1,2-dichloroethene	6.20	96	1659341	91.07	ppb		96
17) 2-butanone	6.25	43	1512560	114.07	ppb		95
18) bromochloromethane	6.57	128	494755	108.67	ppb		90
19) chloroform	6.73	83	3456306	107.43	ppb		96
20) 1,1,1-trichloroethane	6.98	97	3881257	114.97	ppb		96
21) carbon tetrachloride	7.25	117	3268261	119.87	ppb		98
22) 1,1-dichloropropene	7.26	75	3259301	99.12	ppb		97
24) benzene	7.59	78	7266369	85.39	ppb		97
25) 1,2-dichloroethane	7.63	62	1979619	105.05	ppb		99
26) trichloroethene	8.65	95	2083069	98.60	ppb		91
27) 1,2-dichloropropane	9.01	63	1494577	82.56	ppb		99
28) dibromomethane	9.19	93	604037	99.43	ppb		97
29) bromodichloromethane	9.48	83	2132516	112.15	ppb		99
30) 2-chloroethyl vinyl ether	10.02	106	799587	91.51	ppb		94
31) cis-1,3-dichloropropene	10.23	75	2210591	98.48	ppb		95
32) 4-methyl-2-pentanone	10.51	43	2060371	103.60	ppb		90
34) toluene	10.78	92	4319306	92.38	ppb		98
35) Iodomethane	3.65	142	2457649	128.22	ppb		98
36) trans-1,3-dichloropropene	11.17	75	1793949	104.87	ppb		96
37) Vinyl acetate	5.39	86	354434	238.74	ppb		99
38) Carbon disulfide	3.74	76	6116854	91.79	ppb		99
40) 1,1,2-trichloroethane	11.47	83	657322	93.14	ppb		94
41) tetrachloroethene	11.70	166	1859754	114.94	ppb		92
42) 1,3-dichloropropane	11.75	76	1555129	97.91	ppb		95
43) 2-hexanone	11.93	43	1994015	124.88	ppb	#	85
44) dibromochloromethane	12.12	129	1041782	133.73	ppb		97
45) 1,2-dibromoethane	12.30	107	696550	97.32	ppb		100
46) chlorobenzene	13.17	112	3659953	96.31	ppb		93
47) 1,1,1,2-tetrachloroethane	13.32	131	1323991	135.60	ppb	#	90

(#) = qualifier out of range (m) = manual integration
0728302.D 8260SSC.M Tue Aug 02 16:49:09 2005

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728302.D Vial: 2
Acq On : 28 Jul 2005 8:29 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

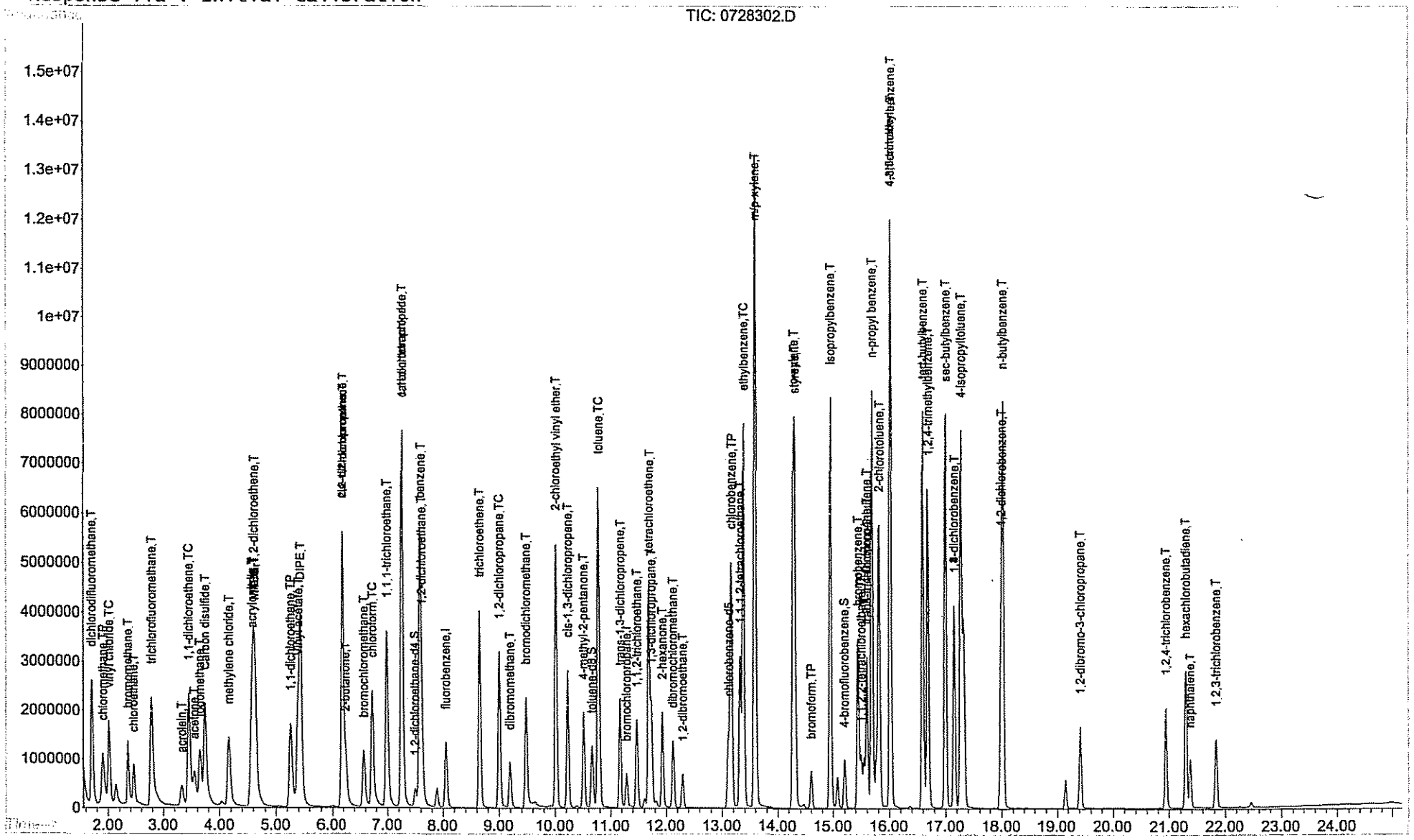
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	517507	124.75 ppb		99
50)	bromobenzene	15.44	156	1287523	118.88 ppb		87
51)	1,1,2,2-tetrachloroethane	15.50	83	816034	103.12 ppb	#	96
52)	1,2,3-trichloropropane	15.60	75	1099368	104.77 ppb		98
54)	ethylbenzene	13.38	91	8919742	97.65 ppb		96
55)	m/p-xylene	13.59	106	5419573	173.65 ppb		84
56)	styrene	14.31	104	3327144	88.21 ppb		100
57)	o-xylene	14.28	106	2395254	87.35 ppb		85
58)	isopropylbenzene	14.95	105	8011606	94.88 ppb		99
59)	n-propyl benzene	15.69	91	10345512	98.25 ppb		100
60)	2-chlorotoluene	15.82	126	1422291	103.45 ppb		87
61)	4-chlorotoluene	16.01	126	1370934	104.21 ppb		82
62)	1,3,5-trimethylbenzene	16.02	105	6045049	94.69 ppb		99
63)	tert-butylbenzene	16.60	119	5267934	98.47 ppb		95
64)	1,2,4-trimethylbenzene	16.68	105	5609202	94.36 ppb		99
65)	sec-butylbenzene	17.00	105	8406025	91.85 ppb	#	91
66)	1,3-dichlorobenzene	17.16	146	2437473	108.74 ppb		95
67)	4-isopropyltoluene	17.28	119	6258677	96.62 ppb		95
68)	1,4-dichlorobenzene	17.16	146	2437473	108.74 ppb		95
69)	1,2-dichlorobenzene	17.99	146	1865215	106.38 ppb		94
70)	n-butylbenzene	18.02	91	6655440	92.18 ppb		93
71)	1,2-dibromo-3-chloropropan	19.41	75	759517	488.09 ppb		95
72)	1,2,4-trichlorobenzene	20.94	180	912536	92.90 ppb		98
73)	hexachlorobutadiene	21.30	225	791103	120.53 ppb		97
74)	naphthalene	21.38	128	1190811	105.73 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	616137	508.56 ppb	#	77
76)	1,2,3-trichlorobenzene	21.83	180	656579	87.23 ppb		97
77)	MTBE	4.63	73	3494183	102.56 ppb	#	89
78)	DIPE	5.44	45	6172544	93.16 ppb		93

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728302.D Vial: 2
Acq On : 28 Jul 2005 8:29 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3072905\0729302.D Vial: 2
Acq On : 29 Jul 2005 8:36 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	139	0.00
2	T	dichlorodifluoromethane	0.954	1.238	-29.8#	166#	0.00
3	TP	chloromethane	0.796	0.911	-14.4	153#	0.00
4	TC	vinyl chloride	0.929	0.972	-4.6	134	0.00
5	T	bromomethane	0.333	0.297	10.8	159#	0.00
6	T	chloroethane	0.373	0.279	25.2#	140	-0.03
7	T	trichlorofluoromethane	0.951	1.088	-14.4	143	-0.02
8	T	acrolein	0.023	0.023	0.0	126	0.00
9	TC	1,1-dichloroethene	0.527	0.517	1.9	141	-0.03
10	T	acetone	0.332	0.433	-30.4#	194#	0.00
11	T	methylene chloride	0.400	0.388	3.0	135	-0.02
12	T	trans-1,2-dichloroethene	0.556	0.553	0.5	140	-0.02
13	T	acrylonitrile	0.072	0.068	5.6	111	0.00
14	TP	1,1-dichloroethane	1.100	1.045	5.0	132	0.00
15	T	2,2-dichloropropane	1.030	1.143	-11.0	159#	0.00
16	T	cis-1,2-dichloroethene	0.531	0.525	1.1	143	-0.02
17	T	2-butanone	0.387	0.512	-32.3#	181#	0.00
18	T	bromochloromethane	0.133	0.163	-22.6	167#	-0.02
19	TC	chloroform	0.938	1.012	-7.9	149	-0.02
20	T	1,1,1-trichloroethane	0.984	1.097	-11.5	154#	0.00
21	T	carbon tetrachloride	0.795	0.889	-11.8	150	0.00
22	T	1,1-dichloropropene	0.959	0.974	-1.6	142	0.00
23	S	1,2-dichloroethane-d4	0.246	0.248	-0.8	136	-0.02
24	T	benzene	2.481	2.347	5.4	137	0.00
25	T	1,2-dichloroethane	0.549	0.557	-1.5	141	-0.02
26	T	trichloroethene	0.616	0.631	-2.4	143	-0.02
27	TC	1,2-dichloropropane	0.528	0.473	10.4	126	-0.02
28	T	dibromomethane	0.177	0.186	-5.1	143	-0.02
29	T	bromodichloromethane	0.554	0.613	-10.6	151#	-0.02
30	T	2-chloroethyl vinyl ether	0.221	0.253	-14.5	132	0.00
31	T	cis-1,3-dichloropropene	0.655	0.683	-4.3	143	-0.02
32	T	4-methyl-2-pentanone	0.580	0.677	-16.7	153#	-0.02
33	S	toluene-d8	0.711	0.728	-2.4	143	-0.02
34	TC	toluene	1.363	1.401	-2.8	143	0.00
35	T	Iodomethane	0.559	0.718	-28.4#	166#	-0.02
36	T	trans-1,3-dichloropropene	0.499	0.551	-10.4	151#	-0.02
37	T	Vinyl acetate	0.043	0.049	-14.0	142	-0.02
38	T	Carbon disulfide	1.943	1.836	5.5	131	-0.02
39	I	bromochloropropane	1.000	1.000	0.0	120	-0.03
40	T	1,1,2-trichloroethane	1.967	2.236	-13.7	136	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3072905\0729302.D Vial: 2
Acq On : 29 Jul 2005 8:36 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	tetrachloroethene	4.510	5.911	-31.1#	163#	-0.02
42	T	1,3-dichloropropane	4.427	5.019	-13.4	136	-0.02
43	T	2-hexanone	4.450	6.897	-55.0#	192#	-0.02
44	T	dibromochloromethane	2.171	3.181	-46.5#	175#	0.00
45	T	1,2-dibromoethane	1.995	2.318	-16.2	139	-0.02
46	TP	chlorobenzene	10.591	11.980	-13.1	142	-0.02
47	T	1,1,1,2-tetrachloroethane	2.721	4.033	-48.2#	182#	-0.02
48	TP	bromoform	1.156	1.632	-41.2#	157#	0.00
49	S	4-bromofluorobenzene	2.744	3.347	-22.0	146	0.00
50	T	bromobenzene	3.018	4.179	-38.5#	170#	0.00
51	TP	1,1,2,2-tetrachloroethane	2.205	2.722	-23.4	143	0.00
52	T	1,2,3-trichloropropane	2.924	2.001	31.6#	78	-0.05
53		chlorobenzene-d5	1.000	1.000	0.0	140	-0.02
54	TC	ethylbenzene	4.293	4.328	-0.8	137	0.00
55	T	m/p-xylene	1.467	1.433	2.3	140	0.00
56	T	styrene	1.773	1.739	1.9	137	0.00
57	T	o-xylene	1.289	1.260	2.2	138	0.00
58	T	isopropylbenzene	3.968	3.965	0.1	135	0.00
59	T	n-propyl benzene	4.949	4.587	7.3	124	0.00
60	T	2-chlorotoluene	0.646	0.680	-5.3	153#	0.00
61	T	4-chlorotoluene	0.618	0.702	-13.6	166#	0.00
62	T	1,3,5-trimethylbenzene	3.000	3.080	-2.7	144	0.00
63	T	tert-butylbenzene	2.514	2.610	-3.8	143	0.00
64	T	1,2,4-trimethylbenzene	2.794	2.868	-2.6	144	0.00
65	T	sec-butylbenzene	4.301	4.125	4.1	127	0.00
66	T	1,3-dichlorobenzene	1.053	1.301	-23.6	173#	0.00
67	T	4-isopropyltoluene	3.044	3.304	-8.5	150	0.00
68	T	1,4-dichlorobenzene	1.053	1.301	-23.6	173#	0.00
69	T	1,2-dichlorobenzene	0.824	1.006	-22.1	173#	0.00
70	T	n-butylbenzene	3.393	3.529	-4.0	143	0.00
71	T	1,2-dibromo-3-chloropropane	0.073	0.081	-11.0	151#	0.00
72	T	1,2,4-trichlorobenzene	0.462	0.560	-21.2	173#	0.00
73	T	hexachlorobutadiene	0.292	0.459	-57.2#	196#	0.00
74	T	naphthalene	0.587	0.756	-28.8#	193#	0.00
75	T	trans-1,4-Dichloro-2-butene	0.057	0.067	-17.5	149	0.00
76	T	1,2,3-trichlorobenzene	0.354	0.427	-20.6	173#	0.00
77	T	MTBE	1.601	1.724	-7.7	146	0.00
78	T	DIPE	3.114	3.090	0.8	144	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729302.D Vial: 2
Acq On : 29 Jul 2005 8:36 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 9:01 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	3450090	50.00	ppb	0.00
39) bromochloropropane	11.27	79	344651	50.00	ppb	-0.03
53) chlorobenzene-d5	13.11	117	2150000	50.00	ppb	-0.02
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	855420	50.47	ppb	-0.02
Spiked Amount 50.000			Recovery =	100.94%		
33) toluene-d8	10.65	98	2510165	51.20	ppb	-0.02
Spiked Amount 50.000			Recovery =	102.40%		
49) 4-bromofluorobenzene	15.21	95	1153455	60.97	ppb	0.00
Spiked Amount 50.000			Recovery =	121.94%		

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	8543327	129.83	ppb		95
3) chloromethane	1.90	50	6283169	114.35	ppb		96
4) vinyl chloride	2.02	62	6705441	104.62	ppb		98
5) bromomethane	2.35	94	2047185	111.12	ppb		97
6) chloroethane	2.45	64	1925657	98.09	ppb		98
7) trichlorofluoromethane	2.78	101	7505480	114.33	ppb		98
8) acrolein	3.33	56	1583132	1010.92	ppb		98
9) 1,1-dichloroethene	3.44	96	3568571	98.10	ppb		94
10) acetone	3.55	43	2989333	161.47	ppb	#	89
11) methylene chloride	4.16	84	2674218	96.82	ppb	#	86
12) trans-1,2-dichloroethene	4.59	96	3817322	99.57	ppb		88
13) acrylonitrile	4.56	53	4699523	862.93	ppb		94
14) 1,1-dichloroethane	5.26	63	7212608	95.01	ppb		99
15) 2,2-dichloropropane	6.18	77	7886581	110.95	ppb		98
16) cis-1,2-dichloroethene	6.19	96	3619665	98.73	ppb		88
17) 2-butanone	6.26	43	3534493	132.48	ppb		97
18) bromochloromethane	6.56	128	1124701	122.78	ppb		92
19) chloroform	6.72	83	6986129	107.92	ppb		99
20) 1,1,1-trichloroethane	6.99	97	7568313	111.43	ppb		93
21) carbon tetrachloride	7.25	117	6132544	111.79	ppb		100
22) 1,1-dichloropropene	7.26	75	6721486	101.59	ppb		98
24) benzene	7.59	78	16197631	94.61	ppb		96
25) 1,2-dichloroethane	7.62	62	3842480	101.35	ppb		99
26) trichloroethene	8.64	95	4350673	102.35	ppb		89
27) 1,2-dichloropropane	9.00	63	3265511	89.66	ppb		100
28) dibromomethane	9.18	93	1282136	104.89	ppb		93
29) bromodichloromethane	9.47	83	4228762	110.53	ppb		99
30) 2-chloroethyl vinyl ether	10.01	106	1748479	99.24	ppb		89
31) cis-1,3-dichloropropene	10.22	75	4712626	104.35	ppb		97
32) 4-methyl-2-pentanone	10.51	43	4674821	116.83	ppb		93
34) toluene	10.77	92	9667848	102.77	ppb		98
35) Iodomethane	3.64	142	4953138	128.44	ppb		92
36) trans-1,3-dichloropropene	11.17	75	3802752	110.48	ppb		98
37) Vinyl acetate	5.38	86	838321	280.65	ppb		88
38) Carbon disulfide	3.73	76	12667229	94.48	ppb		99
40) 1,1,2-trichloroethane	11.46	83	1541038	113.66	ppb		95
41) tetrachloroethene	11.69	166	4074177	131.07	ppb		95
42) 1,3-dichloropropane	11.74	76	3459873	113.39	ppb		95
43) 2-hexanone	11.93	43	4753966	154.98	ppb		87
44) dibromochloromethane	12.12	129	2192450	146.50	ppb		98
45) 1,2-dibromoethane	12.29	107	1597969	116.22	ppb		93
46) chlorobenzene	13.16	112	8257571	113.11	ppb		95
47) 1,1,1,2-tetrachloroethane	13.32	131	2780087	148.22	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729302.D Vial: 2
Acq On : 29 Jul 2005 8:36 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul/29 9:01 2005 Quant Results File: 8260SSC.RES

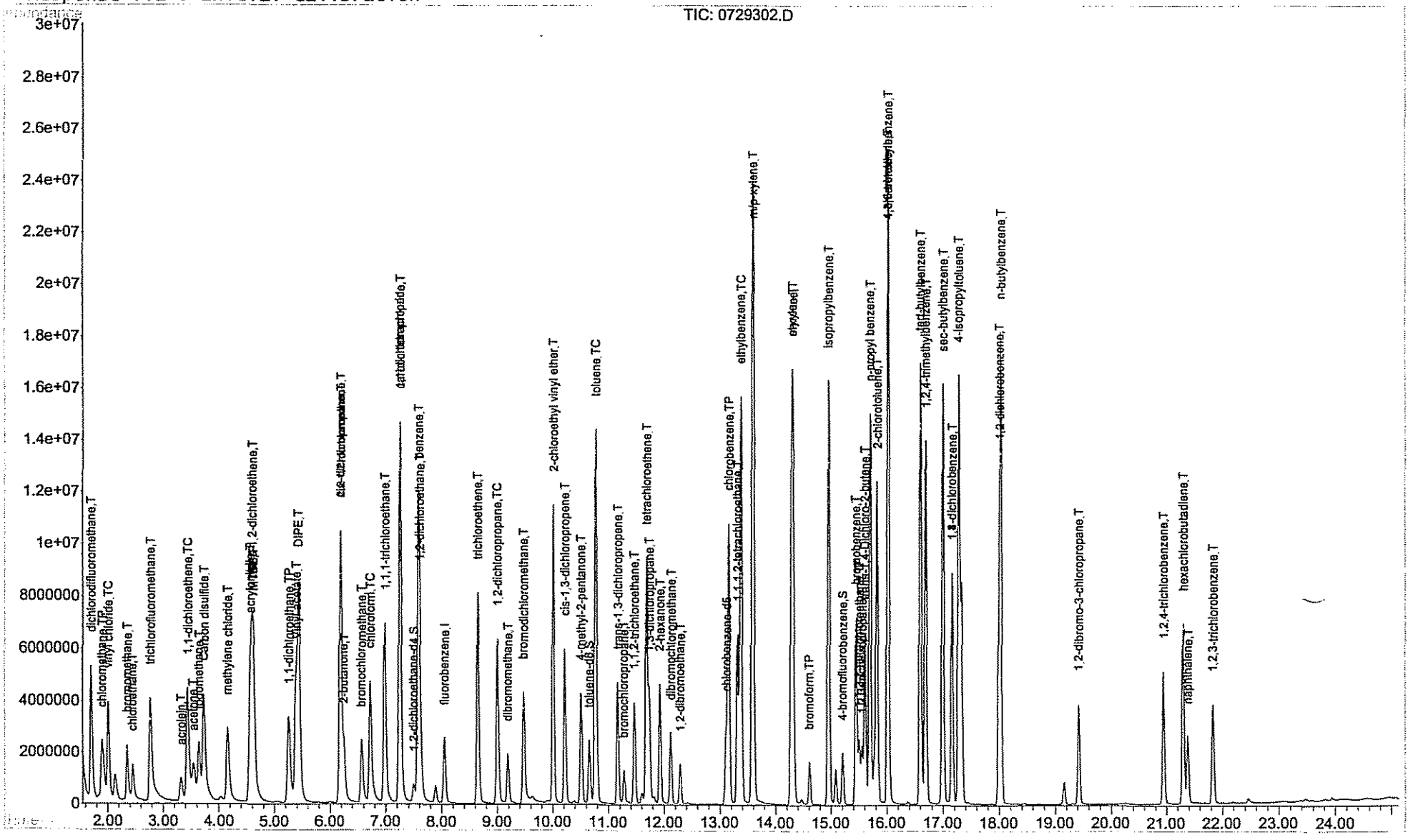
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.61	173	1124940	141.16 ppb		100
50)	bromobenzene	15.45	156	2880315	138.44 ppb	#	79
51)	1,1,2,2-tetrachloroethane	15.50	83	1876249	123.42 ppb	#	97
52)	1,2,3-trichloropropane	15.55	75	1379421	68.43 ppb	#	88
54)	ethylbenzene	13.37	91	18610137	100.82 ppb		100
55)	m/p-xylene	13.59	106	12324984	195.42 ppb		83
56)	styrene	14.31	104	7476495	98.09 ppb		100
57)	o-xylene	14.29	106	5419654	97.80 ppb		92
58)	isopropylbenzene	14.96	105	17051327	99.93 ppb		97
59)	n-propyl benzene	15.69	91	19723352	92.69 ppb		94
60)	2-chlorotoluene	15.82	126	2923805	105.23 ppb		88
61)	4-chlorotoluene	16.02	126	3020500	113.62 ppb		80
62)	1,3,5-trimethylbenzene	16.03	105	13243881	102.67 ppb		98
63)	tert-butylbenzene	16.60	119	11222651	103.81 ppb		98
64)	1,2,4-trimethylbenzene	16.69	105	12332183	102.66 ppb		99
65)	sec-butylbenzene	17.00	105	17735474	95.90 ppb	#	84
66)	1,3-dichlorobenzene	17.16	146	5594064	123.50 ppb		94
67)	4-isopropyltoluene	17.28	119	14205122	108.52 ppb		97
68)	1,4-dichlorobenzene	17.16	146	5594064	123.50 ppb		94
69)	1,2-dichlorobenzene	18.00	146	4327343	122.14 ppb		92
70)	n-butylbenzene	18.03	91	15176684	104.02 ppb	#	91
71)	1,2-dibromo-3-chloropropan	19.42	75	1743340	554.41 ppb		95
72)	1,2,4-trichlorobenzene	20.94	180	2405872	121.20 ppb		97
73)	hexachlorobutadiene	21.30	225	1973025	148.67 ppb		96
74)	naphthalene	21.38	128	3251443	143.39 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	1448213	591.54 ppb		89
76)	1,2,3-trichlorobenzene	21.83	180	1836159	120.72 ppb		98
77)	MTBE	4.63	73	7413567	107.68 ppb	#	92
78)	DIPE	5.43	45	13287565	99.24 ppb		94

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729302.D Vial: 2
Acq On : 29 Jul 2005 8:36 am Operator: JTF
Sample : qchk100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 9:01 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



5035 QC, Blanks Raw Data

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) SOIL 5035 Lab Sample ID: LCS3072805a

Sample wt/vol: 5.00 (g) Lab File ID: 0728303.D

Level: (low/med) low

% Moisture: not dec. 0% Date Analyzed: 2005-07-28 09:00

GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1

Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	100	136	136	50.8-149
107-02-8	acrolein	1000	824	82.4	NA-238
107-13-1	acrylonitrile	1000	739	73.9	NA-212
71-43-2	benzene	100	83.9	83.9	77.6-122
108-86-1	bromobenzene	100	123	123	76.3-124
74-97-5	bromochloromethane	100	107	107	80.5-120
75-27-4	bromodichloromethane	100	105	105	77.4-122
75-25-2	bromoform	100	124	124*	81.8-118
74-83-9	bromomethane	100	135	135	31.5-168
78-93-3	2-butanone	100	104	104	56.5-144
104-51-8	n-butylbenzene	100	96.6	96.6	76.8-123
135-98-8	sec-butylbenzene	100	94.8	94.8	78.5-122
98-06-6	tert-butylbenzene	100	102	102	77.7-122
75-15-0	Carbon disulfide	100	90.0	90.0	74.3-126
56-23-5	carbon tetrachloride	100	120	120	68.0-132
108-90-7	chlorobenzene	100	99.2	99.2	75.3-125
75-00-3	chloroethane	100	138	138	10.0-260
110-75-8	2-chloroethyl vinyl ether	100	89.5	89.5	NA-1020
67-66-3	chloroform	100	105	105	74.7-125
74-87-3	chloromethane	100	107	107	78.6-121
95-49-8	2-chlorotoluene	100	104	104	77.8-122
106-43-4	4-chlorotoluene	100	107	107	77.2-123
124-48-1	dibromochloromethane	100	135	135*	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	500	475	95.1	67.4-133
106-93-4	1,2-dibromomethane	100	97.2	97.2	80.2-120
74-95-3	dibromomethane	100	93.5	93.5	81.0-119
95-50-1	1,2-dichlorobenzene	100	108	108	80.1-120
541-73-1	1,3-dichlorobenzene	100	112	112	78.9-121
106-46-7	1,4-dichlorobenzene	100	112	112	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	500	495	99.0	69.5-130
75-71-8	dichlorodifluoromethane	100	139	139*	65.0-135
75-34-3	1,1-dichloroethane	100	89.2	89.2	74.2-126
107-06-2	1,2-dichloroethane	100	99.9	99.9	74.9-125
75-35-4	1,1-dichloroethene	100	94.2	94.2	78.5-121
156-59-2	cis-1,2-dichloroethene	100	88.6	88.6	77.6-122
156-60-5	trans-1,2-dichloroethene	100	91.3	91.3	78.5-121
78-87-5	1,2-dichloropropane	100	79.8	79.8	76.6-123
142-28-9	1,3-dichloropropane	100	97.3	97.3	84.9-115
594-20-7	2,2-dichloropropane	100	114	114	68.6-131
563-58-6	1,1-dichloropropene	100	95.9	95.9	79.3-121
10061-01-5	cis-1,3-dichloropropene	100	94.5	94.5	75.8-124

Paradigm Analytical Laboratories, INC.

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072805a
Sample wt/vol: 5.00 (g) Lab File ID: 0728303.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-07-28 09:00
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	100	100	100	77.5-122
108-20-3	Diisopropyl ether	100	91.5	91.5	71.8-128
100-41-4	ethylbenzene	100	100	100	76.3-124
87-68-3	hexachlorobutadiene	100	131	131*	73.5-126
591-78-6	2-hexanone	100	125	125	61.2-139
74-88-4	Iodomethane	100	125	125	37.0-163
98-82-8	isopropylbenzene	100	97.3	97.3	77.6-122
99-87-6	4-isopropyltoluene	100	100	100	78.1-122
1634-04-4	Methyl-tert-butyl ether	100	97.4	97.4	78.9-121
75-09-2	methylene chloride	100	88.6	88.6	57.9-142
108-10-1	4-methyl-2-pentanone	100	95.4	95.4	65.1-135
91-20-3	naphthalene	100	111	111	69.3-131
103-65-1	n-propyl benzene	100	101	101	78.3-122
100-42-5	styrene	100	89.5	89.5	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	100	139	139*	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	100	102	102	78.4-122
127-18-4	tetrachloroethene	100	123	123	73.0-127
108-88-3	toluene	100	90.6	90.6	75.7-124
87-61-6	1,2,3-trichlorobenzene	100	94.1	94.1	76.5-124
120-82-1	1,2,4-trichlorobenzene	100	99.0	99.0	74.2-126
71-55-6	1,1,1-trichloroethane	100	114	114	70.5-130
79-00-5	1,1,2-trichloroethane	100	95.5	95.5	84.2-116
79-01-6	trichloroethene	100	97.2	97.2	60.8-139
75-69-4	trichlorofluoromethane	100	132	132	10.0-232
96-18-4	1,2,3-trichloropropane	100	105	105	74.4-126
95-36-3	1,2,4-trimethylbenzene	100	96.6	96.6	77.4-122
108-67-8	1,3,5-trimethylbenzene	100	97.9	97.9	77.6-122
108-05-4	Vinyl acetate	250	221	88.4	NA-NA
75-01-4	vinyl chloride	100	98.4	98.4	79.6-120
108-38-3	m/p-xylene	200	179	89.7	78.8-121
95-47-6	o-xylene	100	90.0	90.0	78.7-121

System Monitoring Compound Results for LCS3072805a		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	118	118	9.07 - 150.69
17060-07-0	1,2-Dichloroethane-d4	50	106	106	7.83 - 170.36
2037-26-5	Toluene-d8	50	102	102	8.81 - 143.85

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728303.D Vial: 3
Acq On : 28 Jul 2005 9:00 am Operator: JTF
Sample : lcs3072805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.05	96	1692467	50.00	ppb		0.00
39) bromochloropropane	11.29	79	167445	50.00	ppb		0.00
53) chlorobenzene-d5	13.11	117	1009082	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.50	65	442674	53.24	ppb		-0.02
Spiked Amount 50.000			Recovery	=	106.48%		
33) toluene-d8	10.66	98	1229625	51.13	ppb		0.00
Spiked Amount 50.000			Recovery	=	102.26%		
49) 4-bromofluorobenzene	15.20	95	544908	59.29	ppb		0.00
Spiked Amount 50.000			Recovery	=	118.58%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.71	85	4488254	139.04	ppb		96
3) chloromethane	1.91	50	2894398	107.38	ppb		93
4) vinyl chloride	2.01	62	3092843	98.37	ppb		98
5) bromomethane	2.35	94	1211433	135.42	ppb		97
6) chloroethane	2.46	64	1303732	138.23	ppb		99
7) trichlorofluoromethane	2.78	101	4262267	132.35	ppb		99
8) acrolein	3.33	56	633318	824.39	ppb		95
9) 1,1-dichloroethene	3.44	96	1681834	94.25	ppb		97
10) acetone	3.55	43	1246278	136.08	ppb	#	85
11) methylene chloride	4.16	84	1200811	88.62	ppb		86
12) trans-1,2-dichloroethene	4.60	96	1716452	91.27	ppb		93
13) acrylonitrile	4.57	53	1971865	738.83	ppb		93
14) 1,1-dichloroethane	5.26	63	3323451	89.24	ppb		97
15) 2,2-dichloropropane	6.17	77	3964768	113.71	ppb		94
16) cis-1,2-dichloroethene	6.19	96	1593032	88.58	ppb		94
17) 2-butanone	6.25	43	1362131	104.08	ppb		96
18) bromochloromethane	6.57	128	479637	106.73	ppb		91
19) chloroform	6.73	83	3326932	104.77	ppb		97
20) 1,1,1-trichloroethane	6.98	97	3810724	114.37	ppb		96
21) carbon tetrachloride	7.25	117	3241088	120.44	ppb		99
22) 1,1-dichloropropene	7.27	75	3111282	95.86	ppb		97
24) benzene	7.58	78	7048779	83.93	ppb		97
25) 1,2-dichloroethane	7.62	62	1858605	99.93	ppb		100
26) trichloroethene	8.65	95	2027848	97.25	ppb		88
27) 1,2-dichloropropane	9.00	63	1426342	79.83	ppb		99
28) dibromomethane	9.19	93	560774	93.52	ppb		96
29) bromodichloromethane	9.48	83	1972724	105.11	ppb		99
30) 2-chloroethyl vinyl ether	10.02	106	771525	89.52	ppb		97
31) cis-1,3-dichloropropene	10.23	75	2094153	94.52	ppb		96
32) 4-methyl-2-pentanone	10.51	43	1872093	95.37	ppb	#	89
34) toluene	10.78	92	4183092	90.64	ppb		97
35) Iodomethane	3.65	142	2363483	124.93	ppb		96
36) trans-1,3-dichloropropene	11.17	75	1689008	100.03	ppb		96
37) Vinyl acetate	5.39	86	323897	221.04	ppb		97
38) Carbon disulfide	3.74	76	5921241	90.03	ppb		99
40) 1,1,2-trichloroethane	11.47	83	629345	95.54	ppb		95
41) tetrachloroethene	11.69	166	1853805	122.75	ppb		93
42) 1,3-dichloropropane	11.74	76	1442669	97.31	ppb		96
43) 2-hexanone	11.93	43	1858880	124.73	ppb	#	83
44) dibromochloromethane	12.12	129	984420	135.39	ppb		99
45) 1,2-dibromoethane	12.30	107	649172	97.18	ppb		97
46) chlorobenzene	13.16	112	3516621	99.15	ppb		93
47) 1,1,1,2-tetrachloroethane	13.32	131	1270572	139.43	ppb	#	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728303.D Vial: 3
Acq On : 28 Jul 2005 9:00 am Operator: JTF
Sample : lcs3072805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

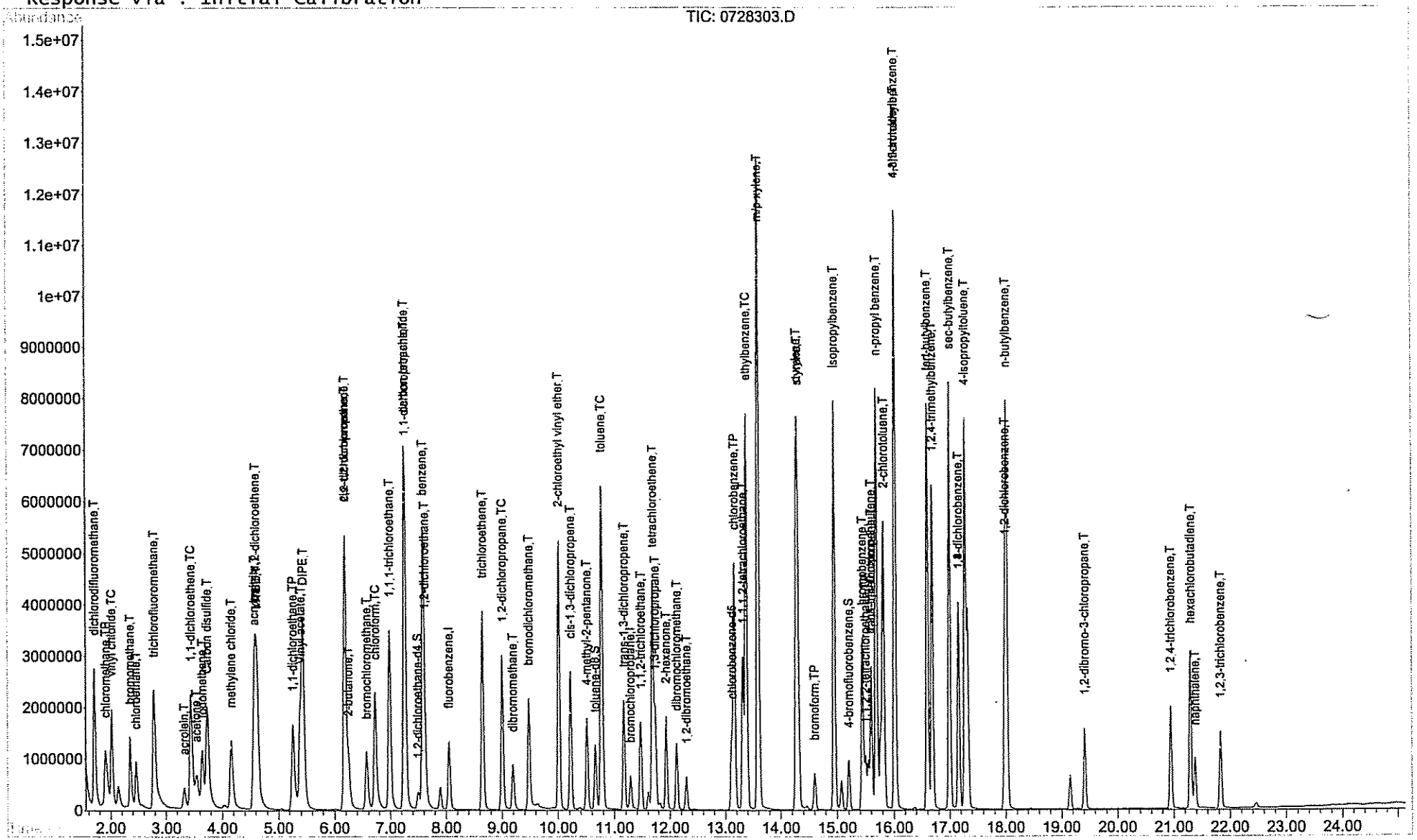
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	481854	124.45 ppb		99
50)	bromobenzene	15.44	156	1246514	123.31 ppb		88
51)	1,1,2,2-tetrachloroethane	15.50	83	757598	102.57 ppb	#	95
52)	1,2,3-trichloropropane	15.60	75	1032371	105.42 ppb		99
54)	ethylbenzene	13.38	91	8663663	100.00 ppb		96
55)	m/p-xylene	13.59	106	5313073	179.49 ppb		85
56)	styrene	14.31	104	3201237	89.49 ppb		100
57)	o-xylene	14.28	106	2339362	89.95 ppb		86
58)	isopropylbenzene	14.95	105	7795680	97.34 ppb		98
59)	n-propyl benzene	15.69	91	10049183	100.62 ppb		100
60)	2-chlorotoluene	15.82	126	1358162	104.15 ppb		88
61)	4-chlorotoluene	16.01	126	1331271	106.70 ppb		85
62)	1,3,5-trimethylbenzene	16.02	105	5926990	97.89 ppb		98
63)	tert-butylbenzene	16.59	119	5157798	101.65 ppb		96
64)	1,2,4-trimethylbenzene	16.68	105	5448381	96.63 ppb		100
65)	sec-butylbenzene	17.00	105	8229447	94.81 ppb	#	92
66)	1,3-dichlorobenzene	17.16	146	2389299	112.39 ppb		95
67)	4-isopropyltoluene	17.27	119	6160357	100.27 ppb		95
68)	1,4-dichlorobenzene	17.16	146	2389299	112.39 ppb		95
69)	1,2-dichlorobenzene	17.98	146	1795884	108.00 ppb		93
70)	n-butylbenzene	18.02	91	6611820	96.56 ppb	#	89
71)	1,2-dibromo-3-chloropropan	19.41	75	701733	475.48 ppb		92
72)	1,2,4-trichlorobenzene	20.94	180	922042	98.97 ppb		98
73)	hexachlorobutadiene	21.30	225	815179	130.92 ppb		97
74)	naphthalene	21.38	128	1188502	111.34 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	568760	494.98 ppb	#	76
76)	1,2,3-trichlorobenzene	21.83	180	671526	94.07 ppb		97
77)	MTBE	4.63	73	3148301	97.43 ppb	#	89
78)	DIPE	5.44	45	5750285	91.51 ppb		92

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728303.D Vial: 3
Acq On : 28 Jul 2005 9:00 am Operator: JTF
Sample : lcs3072805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728320.D Vial: 20
Acq On : 28 Jul 2005 5:58 pm Operator: JTF
Sample : lcs3072805c Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.05	96	1923216	50.00	ppb	0.00
39) bromochloropropane	11.29	79	187447	50.00	ppb	-0.01
53) chlorobenzene-d5	13.11	117	1127249	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	607898	64.34	ppb	-0.01
Spiked Amount 50.000			Recovery	=	128.68%	
33) toluene-d8	10.67	98	1376866	50.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.76%	
49) 4-bromofluorobenzene	15.20	95	679272	66.02	ppb	0.00
Spiked Amount 50.000			Recovery	=	132.04%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.71	85	5562389	151.64	ppb		96
3) chloromethane	1.90	50	3019567	98.58	ppb	#	95
4) vinyl chloride	2.01	62	3274489	91.65	ppb		97
5) bromomethane	2.36	94	1673882	166.11	ppb		94
6) chloroethane	2.47	64	1580842	148.01	ppb		95
7) trichlorofluoromethane	2.79	101	5895012	161.09	ppb		96
8) acrolein	3.32	56	638721	731.67	ppb		97
9) 1,1-dichloroethene	3.45	96	2092780	103.21	ppb	#	82
10) acetone	3.55	43	1600792	154.82	ppb	#	81
11) methylene chloride	4.17	84	1609437	104.53	ppb	#	78
12) trans-1,2-dichloroethene	4.59	96	2065687	96.66	ppb		91
13) acrylonitrile	4.57	53	2028589	669.37	ppb		93
14) 1,1-dichloroethane	5.27	63	4386915	103.67	ppb		99
15) 2,2-dichloropropane	6.18	77	5623170	141.92	ppb		92
16) cis-1,2-dichloroethene	6.19	96	1811526	88.64	ppb		84
17) 2-butanone	6.25	43	1555980	104.63	ppb		93
18) bromochloromethane	6.57	128	521004	102.03	ppb		81
19) chloroform	6.72	83	4419310	122.47	ppb		99
20) 1,1,1-trichloroethane	6.99	97	5366794	141.75	ppb		98
21) carbon tetrachloride	7.26	117	4560973	149.15	ppb		99
22) 1,1-dichloropropene	7.26	75	4183027	113.42	ppb	#	92
24) benzene	7.59	78	8289548	86.86	ppb		98
25) 1,2-dichloroethane	7.62	62	2603132	123.17	ppb	#	96
26) trichloroethene	8.65	95	2515362	106.15	ppb		97
27) 1,2-dichloropropane	9.00	63	1663289	81.92	ppb		99
28) dibromomethane	9.19	93	648169	95.13	ppb		94
29) bromodichloromethane	9.47	83	2551695	119.65	ppb		100
30) 2-chloroethyl vinyl ether	10.02	106	701307	72.12	ppb		97
31) cis-1,3-dichloropropene	10.22	75	2462702	97.82	ppb		93
32) 4-methyl-2-pentanone	10.51	43	2051827	91.98	ppb	#	85
34) toluene	10.78	92	4911914	93.67	ppb		100
35) Iodomethane	3.65	142	2899408	134.87	ppb	#	83
36) trans-1,3-dichloropropene	11.17	75	2065603	107.66	ppb	#	91
37) Vinyl acetate	5.39	86	323785	194.45	ppb		54
38) Carbon disulfide	3.75	76	7893520	105.61	ppb		98
40) 1,1,2-trichloroethane	11.47	83	703681	95.43	ppb		97
41) tetrachloroethene	11.69	166	2090091	123.63	ppb	#	85
42) 1,3-dichloropropane	11.74	76	1683037	101.41	ppb		95
43) 2-hexanone	11.93	43	2058562	123.39	ppb	#	80
44) dibromochloromethane	12.13	129	1154793	141.87	ppb		96
45) 1,2-dibromoethane	12.29	107	715905	95.73	ppb		93
46) chlorobenzene	13.16	112	4090683	103.03	ppb	#	84
47) 1,1,1,2-tetrachloroethane	13.32	131	1548268	151.77	ppb	#	87

(#) = qualifier out of range (m) = manual integration
0728320.D 8260SSC.M Tue Aug 02 16:49:36 2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/28/2005
Benzene	BQL	5.00	1	7/28/2005
Bromobenzene	BQL	5.00	1	7/28/2005
Bromochloromethane	BQL	5.00	1	7/28/2005
Bromodichloromethane	BQL	5.00	1	7/28/2005
Bromoform	BQL	5.00	1	7/28/2005
Bromomethane	BQL	5.00	1	7/28/2005
2-Butanone	BQL	25.0	1	7/28/2005
n-Butylbenzene	BQL	5.00	1	7/28/2005
sec-Butylbenzene	BQL	5.00	1	7/28/2005
tert-Butylbenzene	BQL	5.00	1	7/28/2005
Carbon disulfide	BQL	5.00	1	7/28/2005
Carbon tetrachloride	BQL	5.00	1	7/28/2005
Chlorobenzene	BQL	5.00	1	7/28/2005
Chloroethane	BQL	5.00	1	7/28/2005
Chloroform	BQL	5.00	1	7/28/2005
Chloromethane	BQL	5.00	1	7/28/2005
2-Chlorotoluene	BQL	5.00	1	7/28/2005
4-Chlorotoluene	BQL	5.00	1	7/28/2005
Dibromochloromethane	BQL	5.00	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/28/2005
Dibromomethane	BQL	5.00	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/28/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/28/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/28/2005
1,1-Dichloroethane	BQL	5.00	1	7/28/2005
1,1-Dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloroethane	BQL	5.00	1	7/28/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/28/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/28/2005
1,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,3-Dichloropropane	BQL	5.00	1	7/28/2005
2,2-Dichloropropane	BQL	5.00	1	7/28/2005
1,1-Dichloropropene	BQL	5.00	1	7/28/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/28/2005
Dichlorodifluoromethane	BQL	5.00	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/28/2005
Ethylbenzene	BQL	5.00	1	7/28/2005
Hexachlorobutadiene	BQL	5.00	1	7/28/2005
2-Hexanone	BQL	5.00	1	7/28/2005
Iodomethane	BQL	5.00	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072805C
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/28/2005
4-Isopropyltoluene	BQL	5.00	1	7/28/2005
Methylene chloride	BQL	20.0	1	7/28/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/28/2005
Naphthalene	BQL	5.00	1	7/28/2005
n-Propyl benzene	BQL	5.00	1	7/28/2005
Styrene	BQL	5.00	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/28/2005
Tetrachloroethene	BQL	5.00	1	7/28/2005
Toluene	BQL	5.00	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/28/2005
Trichloroethene	BQL	5.00	1	7/28/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/28/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/28/2005
Trichlorofluoromethane	BQL	5.00	1	7/28/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/28/2005
Vinyl chloride	BQL	5.00	1	7/28/2005
m-,p-Xylene	BQL	10.0	1	7/28/2005
o-Xylene	BQL	5.00	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	56.8	114
1,2-Dichloroethane-d4	50	64.2	128
Toluene-d8	50	51.3	103

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728307.D Vial: 7
Acq On : 28 Jul 2005 11:06 am Operator: JTF
Sample : vblk3072805c Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

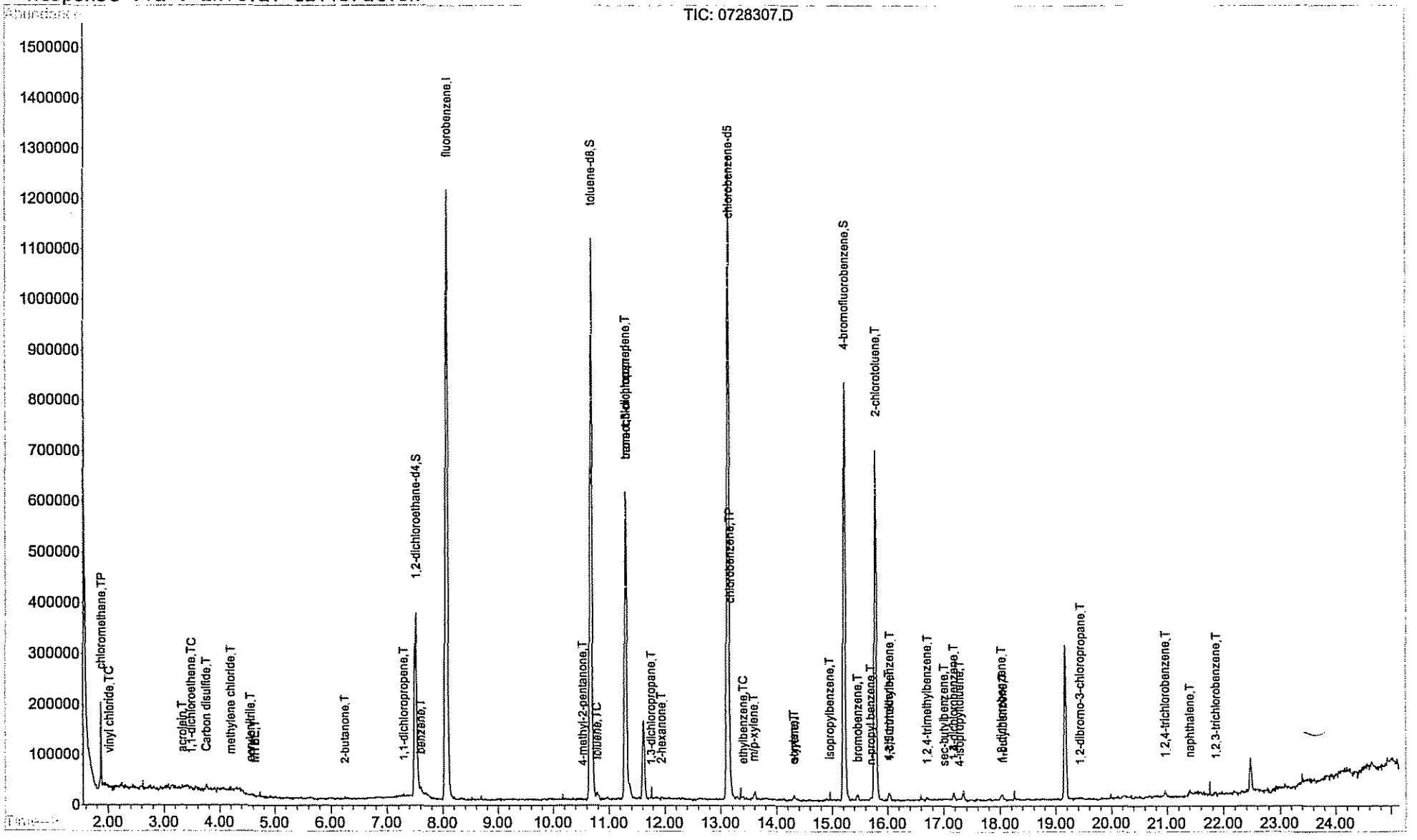
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.07	96	1502894	50.00 ppb	0.01
39) bromochloropropane	11.29	79	151384	50.00 ppb	0.00
53) chlorobenzene-d5	13.12	117	931173	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.51	65	473777	64.16 ppb	0.00
Spiked Amount 50.000			Recovery	= 128.32%	
33) toluene-d8	10.68	98	1095324	51.29 ppb	0.01
Spiked Amount 50.000			Recovery	= 102.58%	
49) 4-bromofluorobenzene	15.21	95	472244	56.84 ppb	0.01
Spiked Amount 50.000			Recovery	= 113.68%	
Target Compounds					Qvalue
3) chloromethane	1.89	50	1336	0.06 ppb	# 48
4) vinyl chloride	2.03	62	678	0.02 ppb	# 43
5) bromomethane	2.41	94	834	Below Cal	# 1
8) acrolein	3.33	56	840	1.23 ppb	# 1
9) 1,1-dichloroethene	3.48	96	1670	0.11 ppb	# 1
10) acetone	3.56	43	14553	Below Cal	# 53
11) methylene chloride	4.20	84	598	0.05 ppb	# 4
13) acrylonitrile	4.55	53	2596	6.19 ppb	# 16
17) 2-butanone	6.25	43	1445	0.12 ppb	# 52
22) 1,1-dichloropropene	7.29	75	642	0.02 ppb	# 44
24) benzene	7.60	78	18556	0.25 ppb	# 84
32) 4-methyl-2-pentanone	10.52	43	1671	0.10 ppb	# 43
34) toluene	10.77	92	4697	0.11 ppb	# 66
36) trans-1,3-dichloropropene	11.30	75	9021	0.60 ppb	# 56
38) Carbon disulfide	3.76	76	1908	0.03 ppb	# 5
42) 1,3-dichloropropane	11.75	76	742	0.06 ppb	# 44
43) 2-hexanone	11.94	43	4628	0.34 ppb	# 29
46) chlorobenzene	13.16	112	7257	0.23 ppb	# 44
50) bromobenzene	15.45	156	3125	0.34 ppb	# 72
54) ethylbenzene	13.40	91	8401	0.11 ppb	# 65
55) m/p-xylene	13.59	106	6261	0.23 ppb	# 72
56) styrene	14.33	104	6767	0.20 ppb	100
57) o-xylene	14.30	106	704	0.03 ppb	# 1
58) isopropylbenzene	14.97	105	2736	0.04 ppb	# 53
59) n-propyl benzene	15.71	91	11400	0.12 ppb	# 87
60) 2-chlorotoluene	15.78	126	1488	0.12 ppb	# 1
61) 4-chlorotoluene	16.02	126	4646	0.40 ppb	# 65
62) 1,3,5-trimethylbenzene	16.04	105	3825	0.07 ppb	# 33
64) 1,2,4-trimethylbenzene	16.70	105	8149	0.16 ppb	# 76
65) sec-butylbenzene	17.01	105	3763	0.05 ppb	# 65
66) 1,3-dichlorobenzene	17.18	146	10630	0.54 ppb	# 83
67) 4-isopropyltoluene	17.28	119	5982	0.11 ppb	# 51
68) 1,4-dichlorobenzene	17.18	146	10630	0.54 ppb	# 83
69) 1,2-dichlorobenzene	18.01	146	4851	0.32 ppb	# 60
70) n-butylbenzene	18.05	91	11989	0.19 ppb	# 60
71) 1,2-dibromo-3-chloropropan	19.42	75	642	0.47 ppb	# 13
72) 1,2,4-trichlorobenzene	20.96	180	7372	0.86 ppb	82
74) naphthalene	21.39	128	18933	0.46 ppb	100
76) 1,2,3-trichlorobenzene	21.85	180	3409	0.52 ppb	# 76
77) MTBE	4.65	73	1832	0.06 ppb	# 52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728307.D Vial: 7
Acq On : 28 Jul 2005 11:06 am Operator: JTF
Sample : vblk3072805c Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Inst: MSD3 Batch ID: 3072805

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-1a Matrix:Soil Diln: 1

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	100	180	180	100	169	169	6.19	30	6.81-355
acrolein	BQL	1000	962	96.2	1000	1040	104	7.46	30	NA-6510
acrylonitrile	BQL	1000	810	81.0	1000	798	79.8	1.54	30	NA-5670
benzene	BQL	100	90.1	90.1	100	90.2	90.2	0.0555	30	74.8-133
bromobenzene	BQL	100	116	116	100	117	117	1.16	30	66.1-140
bromochloromethane	BQL	100	112	112	100	92.9	92.9	18.6	30	85.1-136
bromodichloromethane	BQL	100	126	126	100	119	119	5.16	30	77.4-140
bromoform	BQL	100	124	124	100	119	119	3.80	30	74.7-161
bromomethane	BQL	100	182	182*	100	162	162*	11.5	30	30.4-127
2-butanone	BQL	100	123	123	100	112	112	9.18	30	40.9-256
n-butylbenzene	BQL	100	116	116	100	120	120	2.98	30	41.2-147
sec-butylbenzene	BQL	100	106	106	100	113	113	6.20	30	56.7-138
tert-butylbenzene	BQL	100	114	114	100	119	119	4.59	30	60.5-142
Carbon disulfide	BQL	100	103	103	100	104	104	1.39	30	64.3-145
carbon tetrachloride	BQL	100	144	144*	100	134	134	6.51	30	64.2-142
chlorobenzene	BQL	100	97.4	97.4	100	97.1	97.1	0.257	30	66.3-135
chloroethane	BQL	100	154	154	100	158	158	2.29	30	20.7-182
2-chloroethyl vinyl ether	BQL	100	82.8	82.8*	100	11.6	11.6*	151*	30	0.00-0.00
chloroform	BQL	100	124	124	100	118	118	4.68	30	71.1-143
chloromethane	BQL	100	114	114	100	110	110	4.07	30	69.1-138
2-chlorotoluene	BQL	100	113	113	100	114	114	0.624	30	59.8-144
4-chlorotoluene	BQL	100	115	115	100	117	117	2.05	30	59.0-141
dibromochloromethane	BQL	100	138	138	100	135	135	2.19	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	500	640	128	500	620	124	3.17	30	43.4-229
1,2-dibromomethane	BQL	100	99.0	99.0	100	95.3	95.3	3.75	30	78.3-148
dibromomethane	BQL	100	105	105	100	90.8	90.8	14.2	30	80.0-150
1,2-dichlorobenzene	BQL	100	119	119	100	121	121	1.79	30	57.5-148
1,3-dichlorobenzene	BQL	100	120	120	100	124	124	2.95	30	55.0-145
1,4-dichlorobenzene	BQL	100	120	120	100	124	124	2.95	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	500	579	116	500	538	108	7.35	30	48.9-211
dichlorodifluoromethane	BQL	100	158	158*	100	160	160*	1.01	30	81.6-130
1,1-dichloroethane	BQL	100	105	105	100	102	102	2.75	30	71.6-139
1,2-dichloroethane	BQL	100	131	131	100	120	120	8.26	30	72.9-146
1,1-dichloroethene	BQL	100	106	106	100	101	101	4.91	30	72.0-135
cis-1,2-dichloroethene	BQL	100	94.3	94.3	100	91.3	91.3	3.21	30	76.9-134
trans-1,2-dichloroethene	BQL	100	97.5	97.5	100	98.1	98.1	0.665	30	72.0-135
1,2-dichloropropane	BQL	100	87.5	87.5	100	85.6	85.6	2.20	30	76.1-136
1,3-dichloropropane	BQL	100	101	101	100	98.4	98.4	2.42	30	83.2-137
2,2-dichloropropane	BQL	100	140	140	100	118	118	16.9	30	58.0-150
1,1-dichloropropene	BQL	100	114	114	100	115	115	0.926	30	68.5-137
cis-1,3-dichloropropene	BQL	100	107	107	100	101	101	5.44	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 11 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-1a

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	116	116	100	108	108	7.20	30	72.5-152
Diisopropyl ether	BQL	100	106	106	100	104	104	1.32	30	59.9-147
ethylbenzene	BQL	100	111	111	100	111	111	0.0903	30	68.5-135
hexachlorobutadiene	BQL	100	161	161	100	177	177*	9.37	30	12.1-169
2-hexanone	BQL	100	134	134	100	123	123	8.30	30	39.9-238
Iodomethane	BQL	100	139	139	100	103	103	29.6	30	39.5-177
isopropylbenzene	BQL	100	108	108	100	110	110	2.14	30	63.7-135
4-isopropyltoluene	BQL	100	114	114	100	121	121	5.66	30	53.2-142
Methyl-tert-butyl ether	BQL	100	116	116	100	111	111	5.00	30	73.3-155
methylene chloride	BQL	100	108	108	100	104	104	3.60	30	54.3-156
4-methyl-2-pentanone	BQL	100	108	108	100	102	102	6.07	30	47.2-227
naphthalene	BQL	100	136	136	100	136	136	0.330	30	14.4-218
n-propyl benzene	BQL	100	114	114	100	117	117	2.23	30	61.7-134
styrene	BQL	100	95.4	95.4	100	95.6	95.6	0.283	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	100	141	141*	100	140	140*	0.966	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	100	104	104	100	96.4	96.4	7.23	30	68.8-175
tetrachloroethene	BQL	100	112	112	100	117	117	4.21	30	61.6-137
toluene	BQL	100	96.8	96.8	100	96.5	96.5	0.342	30	70.5-138
1,2,3-trichlorobenzene	BQL	100	114	114	100	119	119	4.76	30	13.2-190
1,2,4-trichlorobenzene	BQL	100	114	114	100	120	120	5.55	30	9.93-187
1,1,1-trichloroethane	BQL	100	140	140	100	135	135	3.46	30	66.9-142
1,1,2-trichloroethane	BQL	100	95.0	95.0	100	90.3	90.3	5.06	30	84.9-139
trichloroethene	BQL	100	108	108	100	111	111	2.49	30	60.7-152
trichlorofluoromethane	BQL	100	163	163*	100	155	155	4.72	30	55.0-162
1,2,3-trichloropropane	BQL	100	107	107	100	102	102	5.57	30	55.1-197
1,2,4-trimethylbenzene	BQL	100	111	111	100	113	113	1.98	30	61.1-141
1,3,5-trimethylbenzene	BQL	100	111	111	100	114	114	2.22	30	61.8-138
Vinyl acetate	BQL	250	226	90.2	250	155	62.0	37.0*	30	NA-NA
vinyl chloride	BQL	100	106	106	100	104	104	1.56	30	80.9-129
m/p-xylene	BQL	200	191	95.4	200	193	96.6	1.30	30	68.0-135
o-xylene	BQL	100	95.6	95.6	100	96.8	96.8	1.31	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 11 out of 144 outside of limits

COMMENTS: _____

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728309.D Vial: 9
Acq On : 28 Jul 2005 12:08 pm Operator: JTF
Sample : g161-2081-1a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

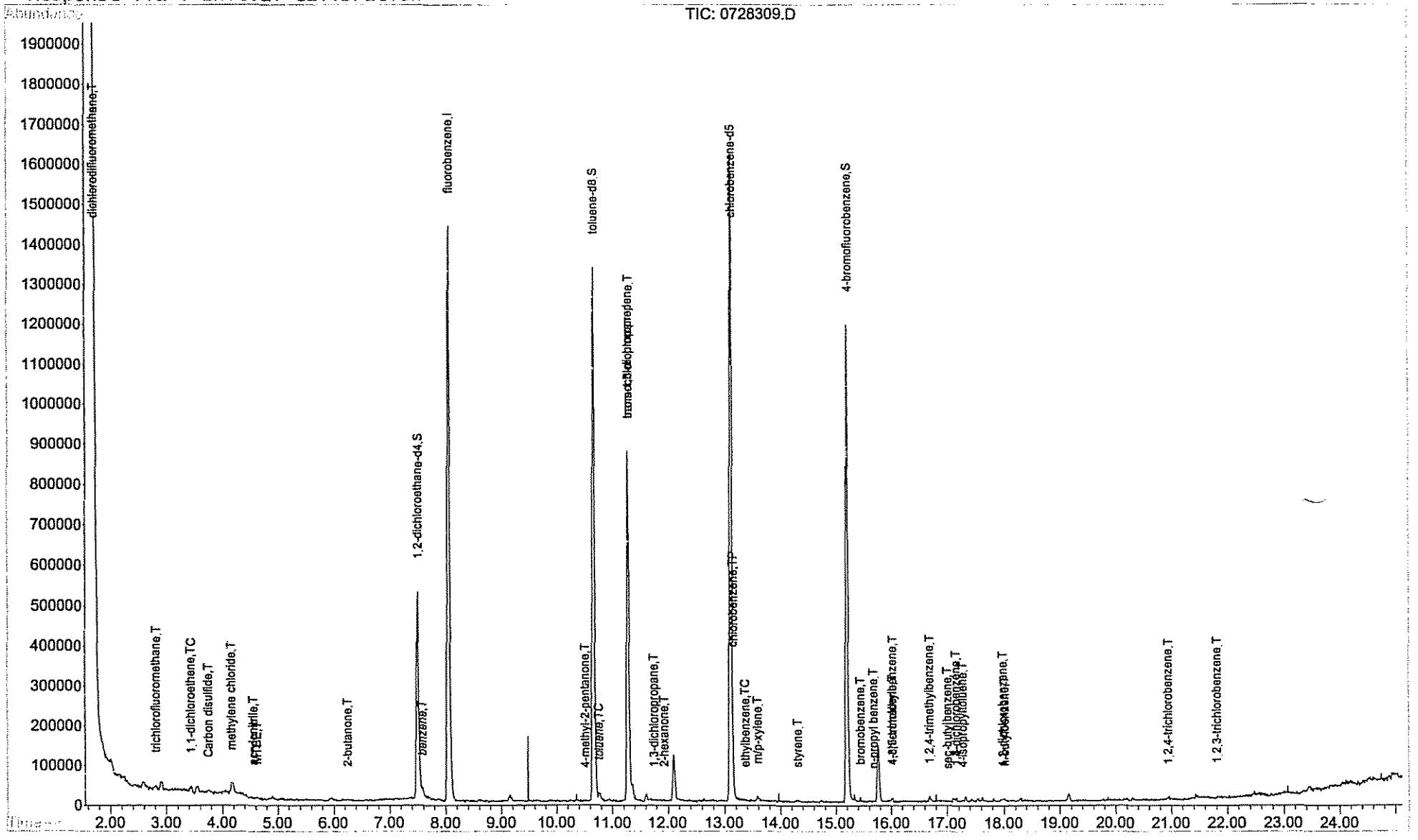
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.06	96	1747644	50.00 ppb	0.00
39) bromochloropropane	11.28	79	208988	50.00 ppb	-0.02
53) chlorobenzene-d5	13.11	117	1172457	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.50	65	707783	82.43 ppb	0.00
Spiked Amount 50.000			Recovery	= 164.86%	
33) toluene-d8	10.66	98	1313384	52.89 ppb	0.00
Spiked Amount 50.000			Recovery	= 105.78%	
49) 4-bromofluorobenzene	15.20	95	669767	58.39 ppb	0.00
Spiked Amount 50.000			Recovery	= 116.78%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.72	85	2303	0.07 ppb	#	41
5) bromomethane	2.40	94	600	Below Cal	#	1
7) trichlorofluoromethane	2.81	101	10273	0.31 ppb		86
9) 1,1-dichloroethene	3.44	96	799	0.04 ppb	#	1
10) acetone	3.55	43	51599	Below Cal	#	69
11) methylene chloride	4.17	84	22308	1.59 ppb	#	75
13) acrylonitrile	4.55	53	684	5.35 ppb	#	1
17) 2-butanone	6.26	43	7455	0.55 ppb	#	52
24) benzene	7.59	78	22802	0.26 ppb		96
32) 4-methyl-2-pentanone	10.51	43	758	0.04 ppb	#	43
34) toluene	10.77	92	12162	0.26 ppb	#	62
36) trans-1,3-dichloropropene	11.28	75	13221	0.76 ppb	#	56
38) Carbon disulfide	3.74	76	6443	0.09 ppb	#	1
42) 1,3-dichloropropane	11.75	76	639	0.03 ppb	#	44
43) 2-hexanone	11.93	43	1699	0.09 ppb	#	29
46) chlorobenzene	13.15	112	4400	0.10 ppb	#	40
50) bromobenzene	15.44	156	1490	0.12 ppb	#	44
54) ethylbenzene	13.38	91	6543	0.06 ppb	#	47
55) m/p-xylene	13.59	106	6143	0.18 ppb		94
56) styrene	14.31	104	2822	0.07 ppb		100
59) n-propyl benzene	15.68	91	5180	0.04 ppb	#	59
61) 4-chlorotoluene	16.01	126	794	0.05 ppb	#	1
62) 1,3,5-trimethylbenzene	16.02	105	2381	0.03 ppb	#	33
64) 1,2,4-trimethylbenzene	16.69	105	7656	0.12 ppb	#	80
65) sec-butylbenzene	17.00	105	620	0.01 ppb	#	65
66) 1,3-dichlorobenzene	17.15	146	4338	0.18 ppb	#	37
67) 4-isopropyltoluene	17.26	119	2690	0.04 ppb	#	51
68) 1,4-dichlorobenzene	17.15	146	4338	0.18 ppb	#	37
69) 1,2-dichlorobenzene	17.98	146	3618	0.19 ppb	#	22
70) n-butylbenzene	18.02	91	5674	0.07 ppb	#	60
72) 1,2,4-trichlorobenzene	20.94	180	3358	0.31 ppb		88
74) naphthalene	21.38	128	9471	Below Cal		100
76) 1,2,3-trichlorobenzene	21.81	180	633	0.08 ppb	#	3
77) MTBE	4.63	73	758	0.02 ppb	#	52

(#) = qualifier out of range (m) = manual integration
0728309.D 8260SSC.M Tue Aug 02 16:49:31 2005

Data File : C:\HPCHEM\1\DATA\3072805\0728309.D Vial: 9
Acq On : 28 Jul 2005 12:08 pm Operator: JTF
Sample : g161-2081-1a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728321.D Vial: 21
Acq On : 28 Jul 2005 6:30 pm Operator: JTF
Sample : g161-2081-1b ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.05	96	2042409	50.00 ppb	0.00
39) bromochloropropane	11.28	79	221344	50.00 ppb	-0.02
53) chlorobenzene-d5	13.12	117	1238103	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.50	65	670560	66.83 ppb	-0.02
Spiked Amount 50.000			Recovery	= 133.66%	
33) toluene-d8	10.66	98	1498955	51.65 ppb	0.00
Spiked Amount 50.000			Recovery	= 103.30%	
49) 4-bromofluorobenzene	15.20	95	736233	60.60 ppb	0.00
Spiked Amount 50.000			Recovery	= 121.20%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.70	85	6177606	158.58 ppb		96
3) chloromethane	1.90	50	3711065	114.09 ppb		94
4) vinyl chloride	2.02	62	4027898	106.16 ppb		100
5) bromomethane	2.35	94	1942513	182.14 ppb		95
6) chloroethane	2.46	64	1749605	154.57 ppb		98
7) trichlorofluoromethane	2.79	101	6335668	163.03 ppb		96
8) acrolein	3.33	56	891817	961.97 ppb		95
9) 1,1-dichloroethene	3.46	96	2291380	106.41 ppb		90
10) acetone	3.56	43	1961125	179.78 ppb	#	81
11) methylene chloride	4.17	84	1784681	109.15 ppb	#	77
12) trans-1,2-dichloroethene	4.60	96	2211989	97.47 ppb		92
13) acrylonitrile	4.57	53	2612257	810.57 ppb		93
14) 1,1-dichloroethane	5.26	63	4702274	104.63 ppb		97
15) 2,2-dichloropropane	6.18	77	5908845	140.43 ppb	#	91
16) cis-1,2-dichloroethene	6.20	96	2047041	94.32 ppb		91
17) 2-butanone	6.26	43	1952404	123.62 ppb		93
18) bromochloromethane	6.56	128	607540	112.03 ppb		95
19) chloroform	6.73	83	4755872	124.11 ppb		99
20) 1,1,1-trichloroethane	6.99	97	5619328	139.76 ppb		98
21) carbon tetrachloride	7.25	117	4660281	143.50 ppb		98
22) 1,1-dichloropropene	7.26	75	4465034	114.00 ppb		94
24) benzene	7.59	78	9159436	90.37 ppb		96
25) 1,2-dichloroethane	7.63	62	2935328	130.78 ppb	#	95
26) trichloroethene	8.65	95	2719111	108.06 ppb		93
27) 1,2-dichloropropane	9.01	63	1885888	87.47 ppb		98
28) dibromomethane	9.19	93	757093	104.63 ppb		90
29) bromodichloromethane	9.48	83	2844465	125.59 ppb		99
30) 2-chloroethyl vinyl ether	10.01	106	859433	82.83 ppb		100
31) cis-1,3-dichloropropene	10.22	75	2859440	106.95 ppb		91
32) 4-methyl-2-pentanone	10.52	43	2567049	108.37 ppb	#	88
34) toluene	10.77	92	5404954	97.05 ppb		99
35) Iodomethane	3.65	142	3177645	139.19 ppb		95
36) trans-1,3-dichloropropene	11.17	75	2385890	117.10 ppb	#	91
37) Vinyl acetate	5.39	86	398952	225.61 ppb		77
38) Carbon disulfide	3.74	76	8163196	102.85 ppb		99
40) 1,1,2-trichloroethane	11.47	83	826934	94.97 ppb		97
41) tetrachloroethene	11.70	166	2238872	112.15 ppb	#	87
42) 1,3-dichloropropane	11.74	76	1976872	100.88 ppb		98
43) 2-hexanone	11.93	43	2645286	134.28 ppb	#	81
44) dibromochloromethane	12.12	129	1324301	137.78 ppb		97
45) 1,2-dibromoethane	12.29	107	874015	98.98 ppb	#	91
46) chlorobenzene	13.17	112	4571163	97.50 ppb		89
47) 1,1,1,2-tetrachloroethane	13.32	131	1703087	141.38 ppb	#	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728321.D Vial: 21
Acq On : 28 Jul 2005 6:30 pm Operator: JTF
Sample : g161-2081-1b ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

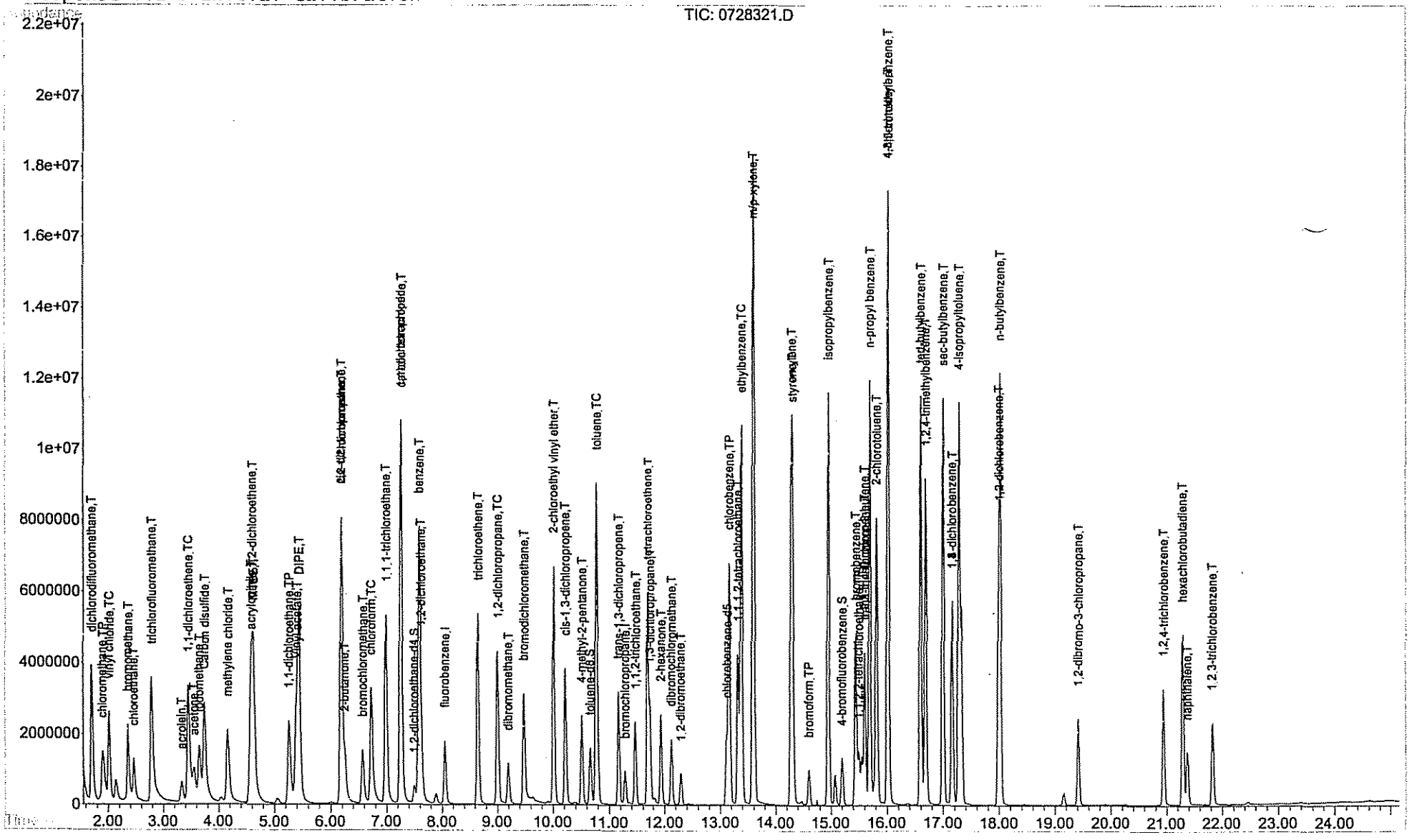
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.61	173	635180	124.11 ppb		99
50)	bromobenzene	15.44	156	1549911	115.99 ppb		94
51)	1,1,2,2-tetrachloroethane	15.49	83	1011873	103.64 ppb	#	96
52)	1,2,3-trichloropropane	15.60	75	1389481	107.33 ppb		99
54)	ethylbenzene	13.38	91	11787177	110.89 ppb		94
55)	m/p-xylene	13.59	106	6936012	190.97 ppb		77
56)	styrene	14.31	104	4188515	95.43 ppb		100
57)	o-xylene	14.28	106	3049547	95.57 ppb		76
58)	isopropylbenzene	14.95	105	10595289	107.83 ppb		100
59)	n-propyl benzene	15.69	91	14000245	114.25 ppb		98
60)	2-chlorotoluene	15.82	126	1815831	113.49 ppb		96
61)	4-chlorotoluene	16.02	126	1760504	115.00 ppb		98
62)	1,3,5-trimethylbenzene	16.03	105	8283675	111.51 ppb		99
63)	tert-butylbenzene	16.60	119	7086939	113.84 ppb		88
64)	1,2,4-trimethylbenzene	16.69	105	7660591	110.74 ppb		95
65)	sec-butylbenzene	17.00	105	11272437	105.84 ppb		94
66)	1,3-dichlorobenzene	17.16	146	3135520	120.21 ppb		97
67)	4-isopropyltoluene	17.28	119	8632333	114.52 ppb		93
68)	1,4-dichlorobenzene	17.16	146	3135520	120.21 ppb		97
69)	1,2-dichlorobenzene	17.99	146	2428974	119.05 ppb		96
70)	n-butylbenzene	18.02	91	9793320	116.56 ppb		97
71)	1,2-dibromo-3-chloropropan	19.42	75	1159416	640.28 ppb		91
72)	1,2,4-trichlorobenzene	20.94	180	1306233	114.27 ppb		96
73)	hexachlorobutadiene	21.30	225	1229462	160.85 ppb	#	89
74)	naphthalene	21.38	128	1778256	136.10 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	816433	579.10 ppb	#	58
76)	1,2,3-trichlorobenzene	21.83	180	995198	113.62 ppb		100
77)	MTBE	4.63	73	4613955	116.37 ppb	#	87
78)	DIPE	5.44	45	8143432	105.62 ppb		91

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728321.D Vial: 21
Acq On : 28 Jul 2005 6:30 pm Operator: JTF
Sample : g161-2081-1b ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728322.D Vial: 22
Acq On : 28 Jul 2005 7:01 pm Operator: JTF
Sample : g161-2081-1b msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.07	96	2109978	50.00	ppb		0.01
39) bromochloropropane	11.29	79	225358	50.00	ppb		0.00
53) chlorobenzene-d5	13.12	117	1265225	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.52	65	654447	63.13	ppb		0.00
Spiked Amount 50.000			Recovery	=	126.26%		
33) toluene-d8	10.67	98	1545065	51.53	ppb		0.00
Spiked Amount 50.000			Recovery	=	103.06%		
49) 4-bromofluorobenzene	15.21	95	735147	59.43	ppb		0.00
Spiked Amount 50.000			Recovery	=	118.86%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.73	85	6446934	160.19	ppb		95
3) chloromethane	1.94	50	3680996	109.54	ppb		97
4) vinyl chloride	2.05	62	4096609	104.52	ppb		100
5) bromomethane	2.38	94	1796595	162.37	ppb		97
6) chloroethane	2.50	64	1847478	158.15	ppb		100
7) trichlorofluoromethane	2.83	101	6244092	155.53	ppb		96
8) acrolein	3.36	56	992665	1036.47	ppb		95
9) 1,1-dichloroethene	3.50	96	2253901	101.31	ppb		82
10) acetone	3.57	43	1909290	168.98	ppb	#	83
11) methylene chloride	4.21	84	1779599	105.35	ppb	#	75
12) trans-1,2-dichloroethene	4.64	96	2300396	98.12	ppb		99
13) acrylonitrile	4.59	53	2657292	798.22	ppb		92
14) 1,1-dichloroethane	5.30	63	4725869	101.79	ppb		97
15) 2,2-dichloropropane	6.22	77	5154258	118.57	ppb		95
16) cis-1,2-dichloroethene	6.22	96	2047894	91.34	ppb		86
17) 2-butanone	6.27	43	1840792	112.82	ppb		93
18) bromochloromethane	6.59	128	520628	92.93	ppb		98
19) chloroform	6.75	83	4688678	118.43	ppb		98
20) 1,1,1-trichloroethane	7.01	97	5607418	135.00	ppb		96
21) carbon tetrachloride	7.28	117	4510778	134.45	ppb		99
22) 1,1-dichloropropene	7.29	75	4655514	115.06	ppb		94
24) benzene	7.62	78	9467715	90.42	ppb		98
25) 1,2-dichloroethane	7.64	62	2791711	120.40	ppb	#	96
26) trichloroethene	8.67	95	2880047	110.79	ppb		93
27) 1,2-dichloropropane	9.03	63	1905998	85.57	ppb		99
28) dibromomethane	9.20	93	678708	90.79	ppb		96
29) bromodichloromethane	9.49	83	2790739	119.27	ppb		98
30) 2-chloroethyl vinyl ether	10.02	106	100409	11.61	ppb		86
31) cis-1,3-dichloropropene	10.23	75	2797450	101.28	ppb	#	90
32) 4-methyl-2-pentanone	10.51	43	2495900	101.99	ppb	#	88
34) toluene	10.78	92	5564396	96.72	ppb		99
35) Iodomethane	3.68	142	2436804	103.32	ppb		88
36) trans-1,3-dichloropropene	11.17	75	2294888	109.02	ppb		92
37) Vinyl acetate	5.41	86	283313	155.09	ppb		65
38) Carbon disulfide	3.78	76	8551384	104.29	ppb		98
40) 1,1,2-trichloroethane	11.47	83	800393	90.28	ppb		98
41) tetrachloroethene	11.71	166	2377440	116.97	ppb	#	90
42) 1,3-dichloropropane	11.75	76	1964652	98.47	ppb		100
43) 2-hexanone	11.93	43	2478720	123.58	ppb	#	81
44) dibromochloromethane	12.13	129	1319135	134.80	ppb		99
45) 1,2-dibromoethane	12.30	107	857170	95.34	ppb		94
46) chlorobenzene	13.17	112	4641975	97.25	ppb	#	87
47) 1,1,1,2-tetrachloroethane	13.32	131	1717268	140.02	ppb	#	86

(#) = qualifier out of range (m) = manual integration
0728322.D 8260SSC.M Tue Aug 02 16:49:48 2005

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072805\0728322.D Vial: 22
Acq On : 28 Jul 2005 7:01 pm Operator: JTF
Sample : g161-2081-1b msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

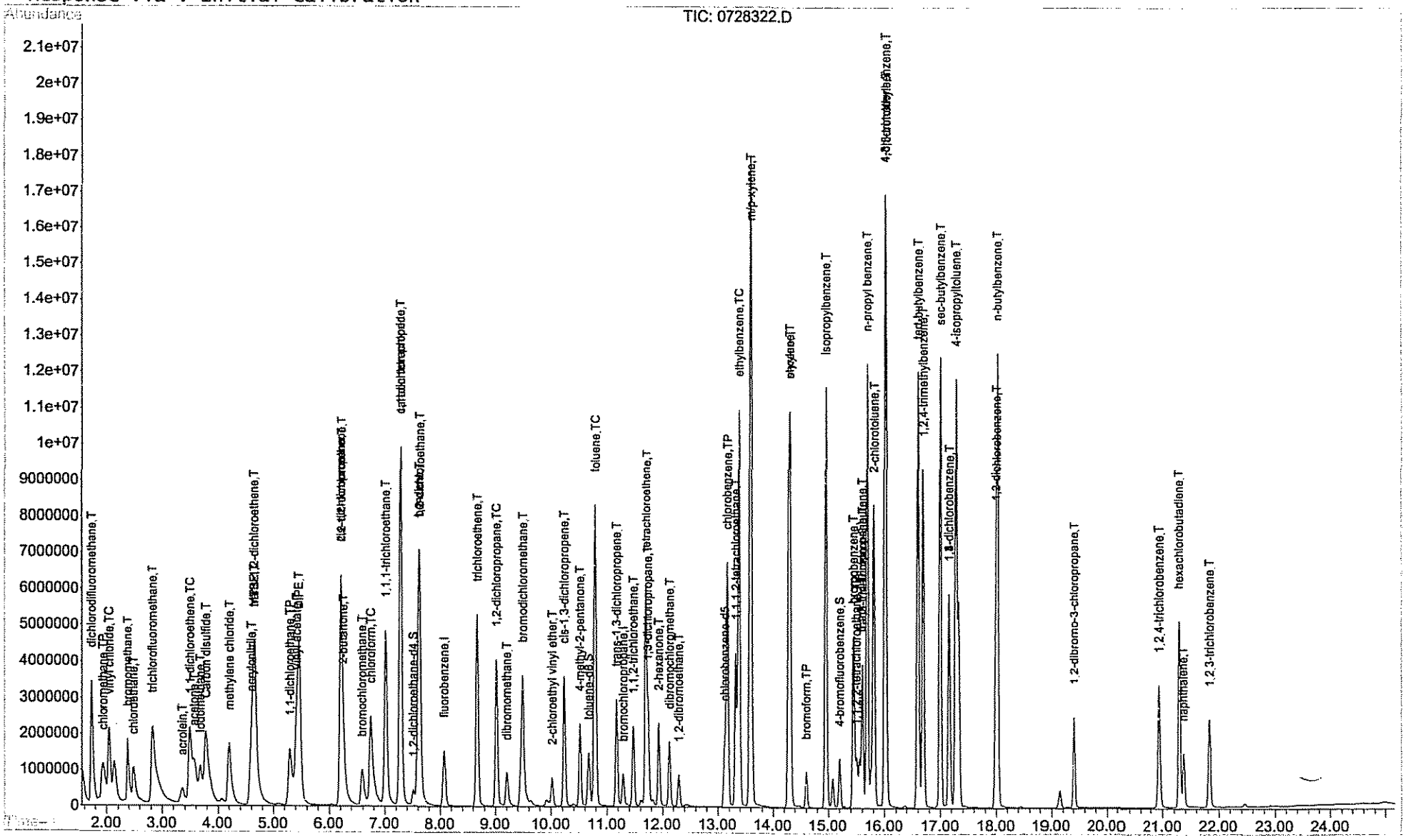
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.61	173	622581	119.48 ppb		96
50)	bromobenzene	15.44	156	1596384	117.34 ppb		96
51)	1,1,2,2-tetrachloroethane	15.50	83	958333	96.41 ppb	#	94
52)	1,2,3-trichloropropane	15.60	75	1337970	101.51 ppb		100
54)	ethylbenzene	13.38	91	12034407	110.79 ppb		94
55)	m/p-xylene	13.60	106	7180525	193.47 ppb		78
56)	styrene	14.31	104	4292402	95.70 ppb		100
57)	o-xylene	14.29	106	3157626	96.83 ppb		78
58)	isopropylbenzene	14.95	105	11061993	110.16 ppb		99
59)	n-propyl benzene	15.69	91	14629104	116.83 ppb		98
60)	2-chlorotoluene	15.82	126	1867157	114.20 ppb		96
61)	4-chlorotoluene	16.01	126	1836361	117.38 ppb		91
62)	1,3,5-trimethylbenzene	16.02	105	8654661	114.01 ppb		98
63)	tert-butylbenzene	16.60	119	7583015	119.19 ppb		93
64)	1,2,4-trimethylbenzene	16.69	105	7984400	112.95 ppb		94
65)	sec-butylbenzene	17.00	105	12255286	112.61 ppb	#	91
66)	1,3-dichlorobenzene	17.16	146	3300190	123.81 ppb		98
67)	4-isopropyltoluene	17.28	119	9335888	121.19 ppb		94
68)	1,4-dichlorobenzene	17.16	146	3300190	123.81 ppb		98
69)	1,2-dichlorobenzene	17.99	146	2526982	121.20 ppb		96
70)	n-butylbenzene	18.03	91	10310204	120.08 ppb		93
71)	1,2-dibromo-3-chloropropan	19.42	75	1147880	620.32 ppb		95
72)	1,2,4-trichlorobenzene	20.94	180	1410929	120.78 ppb		95
73)	hexachlorobutadiene	21.30	225	1380130	176.66 ppb		91
74)	naphthalene	21.38	128	1823076	136.55 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	775140	538.02 ppb	#	66
76)	1,2,3-trichlorobenzene	21.83	180	1066602	119.16 ppb		97
77)	MTBE	4.66	73	4484618	110.69 ppb	#	88
78)	DIPE	5.46	45	8212470	104.23 ppb	#	89

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072805\0728322.D Vial: 22
Acq On : 28 Jul 2005 7:01 pm Operator: JTF
Sample : g161-2081-1b msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 2 16:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No : SAS No.: SDG No:
Matrix: (soil/water) SOIL 5035 Lab Sample ID: LCS3072905a
Sample wt/vol: 5.00 (g) Lab File ID: 0729303.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-07-29 09:07
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	100	132	132	50.8-149
107-02-8	acrolein	1000	829	82.9	NA-238
107-13-1	acrylonitrile	1000	778	77.8	NA-212
71-43-2	benzene	100	87.4	87.4	77.6-122
108-86-1	bromobenzene	100	133	133*	76.3-124
74-97-5	bromochloromethane	100	109	109	80.5-120
75-27-4	bromodichloromethane	100	104	104	77.4-122
75-25-2	bromoform	100	133	133*	81.8-118
74-83-9	bromomethane	100	116	116	31.5-168
78-93-3	2-butanone	100	108	108	56.5-144
104-51-8	n-butylbenzene	100	95.6	95.6	76.8-123
135-98-8	sec-butylbenzene	100	90.9	90.9	78.5-122
98-06-6	tert-butylbenzene	100	87.6	87.6	77.7-122
75-15-0	Carbon disulfide	100	86.5	86.5	74.3-126
56-23-5	carbon tetrachloride	100	109	109	68.0-132
108-90-7	chlorobenzene	100	109	109	75.3-125
75-00-3	chloroethane	100	108	108	10.0-260
110-75-8	2-chloroethyl vinyl ether	100	96.1	96.1	NA-1020
67-66-3	chloroform	100	101	101	74.7-125
74-87-3	chloromethane	100	98.1	98.1	78.6-121
95-49-8	2-chlorotoluene	100	96.4	96.4	77.8-122
106-43-4	4-chlorotoluene	100	105	105	77.2-123
124-48-1	dibromochloromethane	100	140	140*	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	500	468	93.5	67.4-133
106-93-4	1,2-dibromomethane	100	108	108	80.2-120
74-95-3	dibromomethane	100	93.8	93.8	81.0-119
95-50-1	1,2-dichlorobenzene	100	110	110	80.1-120
541-73-1	1,3-dichlorobenzene	100	102	102	78.9-121
106-46-7	1,4-dichlorobenzene	100	103	103	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	500	508	102	69.5-130
75-71-8	dichlorodifluoromethane	100	117	117	65.0-135
75-34-3	1,1-dichloroethane	100	87.1	87.1	74.2-126
107-06-2	1,2-dichloroethane	100	92.6	92.6	74.9-125
75-35-4	1,1-dichloroethene	100	90.3	90.3	78.5-121
156-59-2	cis-1,2-dichloroethene	100	92.2	92.2	77.6-122
156-60-5	trans-1,2-dichloroethene	100	93.0	93.0	78.5-121
78-87-5	1,2-dichloropropane	100	81.4	81.4	76.6-123
142-28-9	1,3-dichloropropane	100	106	106	84.9-115
594-20-7	2,2-dichloropropane	100	105	105	68.6-131
563-58-6	1,1-dichloropropene	100	95.9	95.9	79.3-121
10061-01-5	cis-1,3-dichloropropene	100	96.6	96.6	75.8-124

Paradigm Analytical Laboratories, INC.

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) SOIL Lab Sample ID: LCS3072905a
Sample wt/vol: 5.00 (g) Lab File ID: 0729303.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-07-29 09:07
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	100	100	100	77.5-122
108-20-3	Diisopropyl ether	100	89.7	89.7	71.8-128
100-41-4	ethylbenzene	100	96.2	96.2	76.3-124
87-68-3	hexachlorobutadiene	100	136	136*	73.5-126
591-78-6	2-hexanone	100	134	134	61.2-139
74-88-4	Iodomethane	100	115	115	37.0-163
98-82-8	isopropylbenzene	100	96.0	96.0	77.6-122
99-87-6	4-isopropyltoluene	100	99.4	99.4	78.1-122
1634-04-4	Methyl-tert-butyl ether	100	94.4	94.4	78.9-121
75-09-2	methylene chloride	100	87.9	87.9	57.9-142
108-10-1	4-methyl-2-pentanone	100	98.0	98.0	65.1-135
91-20-3	naphthalene	100	127	127	69.3-131
103-65-1	n-propyl benzene	100	89.4	89.4	78.3-122
100-42-5	styrene	100	89.1	89.1	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	100	143	143*	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	100	111	111	78.4-122
127-18-4	tetrachloroethene	100	130	130*	73.0-127
108-88-3	toluene	100	97.2	97.2	75.7-124
87-61-6	1,2,3-trichlorobenzene	100	104	104	76.5-124
120-82-1	1,2,4-trichlorobenzene	100	109	109	74.2-126
71-55-6	1,1,1-trichloroethane	100	104	104	70.5-130
79-00-5	1,1,2-trichloroethane	100	104	104	84.2-116
79-01-6	trichloroethene	100	97.3	97.3	60.8-139
75-69-4	trichlorofluoromethane	100	111	111	10.0-232
96-18-4	1,2,3-trichloropropane	100	117	117	74.4-126
95-36-3	1,2,4-trimethylbenzene	100	95.3	95.3	77.4-122
108-67-8	1,3,5-trimethylbenzene	100	95.1	95.1	77.6-122
108-05-4	Vinyl acetate	250	233	93.2	NA-NA
75-01-4	vinyl chloride	100	89.5	89.5	79.6-120
108-38-3	m/p-xylene	200	177	88.6	78.8-121
95-47-6	o-xylene	100	89.9	89.9	78.7-121

System Monitoring Compound Results for LCS3072905a		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	118	118	9.07 - 150.69
17060-07-0	1,2-Dichloroethane-d4	50	97.0	97.0	7.83 - 170.36
2037-26-5	Toluene-d8	50	102	102	8.81 - 143.85

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729303.D Vial: 3
Acq On : 29 Jul 2005 9:07 am Operator: JTF
Sample : lcs3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 9:32 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.04	96	3465684	50.00	ppb	-0.02
39) bromochloropropane	11.27	79	334267	50.00	ppb	-0.03
53) chlorobenzene-d5	13.10	117	2168571	50.00	ppb	-0.03
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.49	65	826429	48.54	ppb	-0.03
Spiked Amount 50.000			Recovery	=	97.08%	
33) toluene-d8	10.65	98	2509769	50.96	ppb	-0.02
Spiked Amount 50.000			Recovery	=	101.92%	
49) 4-bromofluorobenzene	15.20	95	1115683	60.81	ppb	0.00
Spiked Amount 50.000			Recovery	=	121.62%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.70	85	7743133	117.14	ppb	96
3) chloromethane	1.90	50	5413282	98.08	ppb	97
4) vinyl chloride	2.02	62	5760614	89.48	ppb	97
5) bromomethane	2.35	94	2134379	115.59	ppb	95
6) chloroethane	2.46	64	2108282	107.58	ppb	99
7) trichlorofluoromethane	2.78	101	7341587	111.33	ppb	97
8) acrolein	3.32	56	1303929	828.89	ppb	96
9) 1,1-dichloroethene	3.45	96	3299207	90.29	ppb	94
10) acetone	3.54	43	2471600	131.55	ppb #	88
11) methylene chloride	4.16	84	2438142	87.88	ppb	88
12) trans-1,2-dichloroethene	4.59	96	3580267	92.97	ppb	92
13) acrylonitrile	4.56	53	4252899	777.91	ppb	95
14) 1,1-dichloroethane	5.25	63	6642227	87.10	ppb	97
15) 2,2-dichloropropane	6.17	77	7504853	105.11	ppb	97
16) cis-1,2-dichloroethene	6.19	96	3394308	92.17	ppb	90
17) 2-butanone	6.25	43	2900164	108.22	ppb	96
18) bromochloromethane	6.56	128	1004054	109.11	ppb	91
19) chloroform	6.71	83	6577055	101.15	ppb	98
20) 1,1,1-trichloroethane	6.98	97	7125072	104.43	ppb	94
21) carbon tetrachloride	7.24	117	5994916	108.79	ppb	100
22) 1,1-dichloropropene	7.25	75	6370771	95.86	ppb	97
24) benzene	7.58	78	15028614	87.39	ppb	95
25) 1,2-dichloroethane	7.62	62	3528448	92.65	ppb	99
26) trichloroethene	8.64	95	4154526	97.30	ppb	88
27) 1,2-dichloropropane	9.00	63	2979250	81.43	ppb	100
28) dibromomethane	9.18	93	1151638	93.79	ppb	93
29) bromodichloromethane	9.47	83	3982469	103.62	ppb	99
30) 2-chloroethyl vinyl ether	10.00	106	1699238	96.10	ppb	88
31) cis-1,3-dichloropropene	10.21	75	4382151	96.59	ppb	94
32) 4-methyl-2-pentanone	10.50	43	3940788	98.04	ppb	91
34) toluene	10.76	92	9187366	97.22	ppb	99
35) Iodomethane	3.64	142	4473244	115.47	ppb	98
36) trans-1,3-dichloropropene	11.16	75	3463075	100.16	ppb	96
37) Vinyl acetate	5.38	86	699445	233.11	ppb	90
38) Carbon disulfide	3.73	76	11650901	86.51	ppb	98
40) 1,1,2-trichloroethane	11.46	83	1369617	104.15	ppb	96
41) tetrachloroethene	11.69	166	3930268	130.37	ppb	94
42) 1,3-dichloropropane	11.74	76	3136354	105.98	ppb	98
43) 2-hexanone	11.92	43	3990615	134.14	ppb #	86
44) dibromochloromethane	12.11	129	2030480	139.89	ppb	99
45) 1,2-dibromoethane	12.28	107	1434628	107.58	ppb	93
46) chlorobenzene	13.16	112	7744504	109.38	ppb	97
47) 1,1,1,2-tetrachloroethane	13.31	131	2603673	143.12	ppb #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729303.D Vial: 3
Acq On : 29 Jul 2005 9:07 am Operator: JTF
Sample : lcs3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 9:32 2005 Quant Results File: 8260SSC.RES

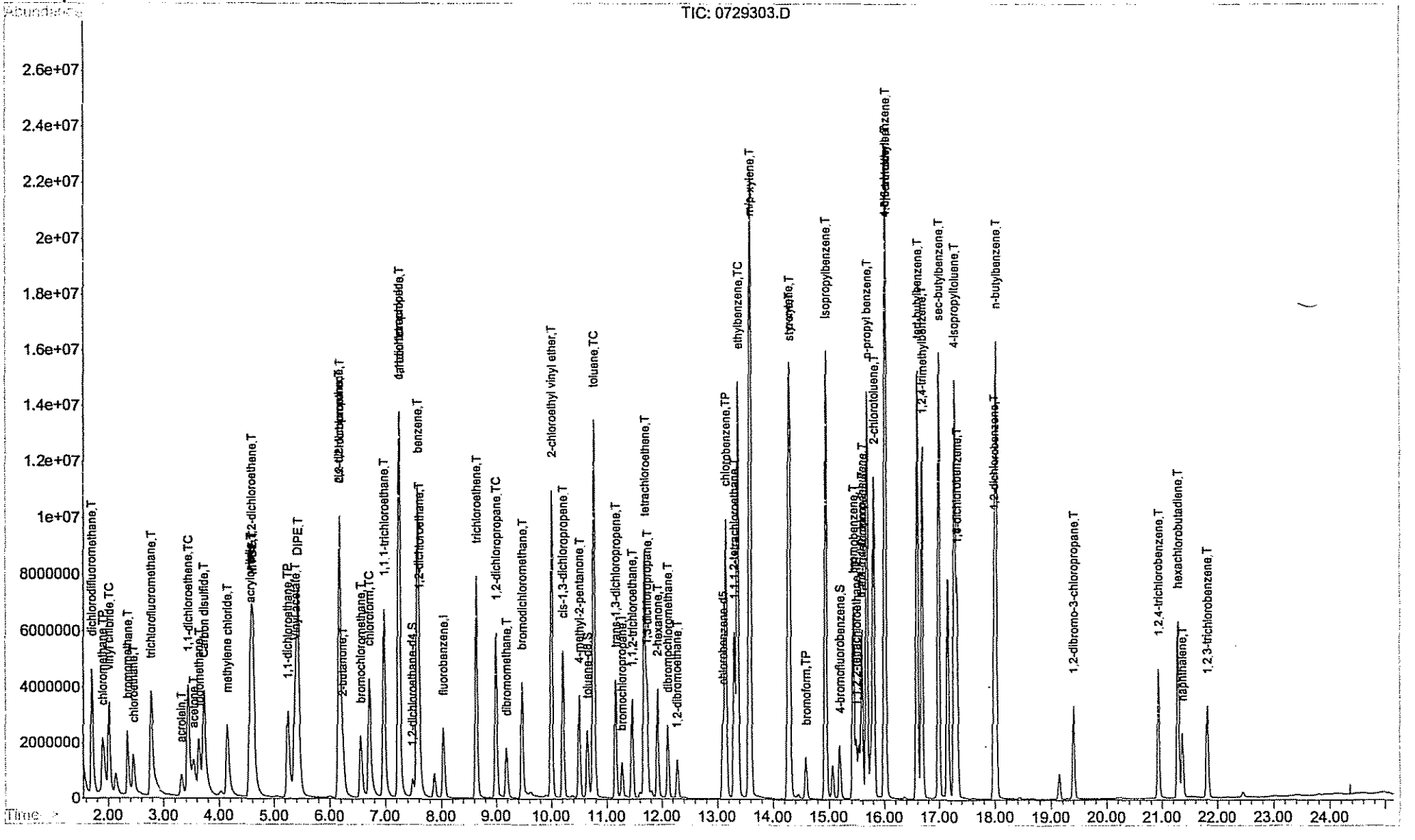
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	1030996	133.39 ppb		99
50)	bromobenzene	15.43	156	2692102	133.41 ppb		83
51)	1,1,2,2-tetrachloroethane	15.49	83	1631675	110.67 ppb	#	99
52)	1,2,3-trichloropropane	15.59	75	2285727	116.92 ppb		94
54)	ethylbenzene	13.37	91	17907438	96.18 ppb		99
55)	m/p-xylene	13.59	106	11269198	177.15 ppb		90
56)	styrene	14.30	104	6852228	89.13 ppb		100
57)	o-xylene	14.27	106	5025030	89.91 ppb		91
58)	isopropylbenzene	14.94	105	16518729	95.98 ppb		98
59)	n-propyl benzene	15.68	91	19194315	89.43 ppb		95
60)	2-chlorotoluene	15.81	126	2700468	96.36 ppb		88
61)	4-chlorotoluene	16.01	126	2809214	104.77 ppb		82
62)	1,3,5-trimethylbenzene	16.02	105	12374426	95.10 ppb		97
63)	tert-butylbenzene	16.60	119	9556403	87.64 ppb		99
64)	1,2,4-trimethylbenzene	16.69	105	11542232	95.26 ppb		98
65)	sec-butylbenzene	16.99	105	16950806	90.87 ppb	#	87
66)	1,3-dichlorobenzene	17.32	146	4657979	101.95 ppb		94
67)	4-isopropyltoluene	17.28	119	13120396	99.37 ppb		97
68)	1,4-dichlorobenzene	17.32	146	4690335	102.66 ppb		94
69)	1,2-dichlorobenzene	17.98	146	3941883	110.31 ppb		94
70)	n-butylbenzene	18.02	91	14068231	95.60 ppb	#	91
71)	1,2-dibromo-3-chloropropan	19.41	75	1483243	467.65 ppb		88
72)	1,2,4-trichlorobenzene	20.93	180	2175784	108.67 ppb		100
73)	hexachlorobutadiene	21.29	225	1819190	135.94 ppb		99
74)	naphthalene	21.37	128	2915646	127.31 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.59	89	1254942	508.20 ppb	#	77
76)	1,2,3-trichlorobenzene	21.82	180	1589676	103.62 ppb		93
77)	MTBE	4.62	73	6553574	94.37 ppb	#	92
78)	DIPE	5.43	45	12113730	89.70 ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729303.D Vial: 3
Acq On : 29 Jul 2005 9:07 am Operator: JTF
Sample : lcs3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 9:32 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729304.D Vial: 4
Acq On : 29 Jul 2005 9:38 am Operator: JTF
Sample : lcs3072905b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 10:03 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.04	96	3277492	50.00 ppb	-0.02
39) bromochloropropane	11.27	79	322395	50.00 ppb	-0.03
53) chlorobenzene-d5	13.10	117	1982816	50.00 ppb	-0.02
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.48	65	793134	49.26 ppb	-0.03
Spiked Amount 50.000			Recovery = 98.52%		
33) toluene-d8	10.65	98	2378098	51.06 ppb	-0.02
Spiked Amount 50.000			Recovery = 102.12%		
49) 4-bromofluorobenzene	15.18	95	1026196	57.99 ppb	-0.02
Spiked Amount 50.000			Recovery = 115.98%		

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.70	85	7564155	121.00 ppb		94
3) chloromethane	1.89	50	5185845	99.35 ppb		96
4) vinyl chloride	2.01	62	5534874	90.91 ppb		100
5) bromomethane	2.35	94	2026964	116.10 ppb		98
6) chloroethane	2.46	64	2283253	124.29 ppb		93
7) trichlorofluoromethane	2.77	101	7291585	116.92 ppb		99
8) acrolein	3.31	56	1247507	838.56 ppb		100
9) 1,1-dichloroethene	3.44	96	3215187	93.04 ppb		95
10) acetone	3.54	43	2290066	128.73 ppb	#	87
11) methylene chloride	4.15	84	2334424	88.97 ppb		86
12) trans-1,2-dichloroethene	4.59	96	3433400	94.27 ppb		90
13) acrylonitrile	4.55	53	3844411	743.80 ppb		94
14) 1,1-dichloroethane	5.25	63	6556789	90.92 ppb		98
15) 2,2-dichloropropane	6.16	77	7285724	107.90 ppb		94
16) cis-1,2-dichloroethene	6.18	96	3167692	90.96 ppb		90
17) 2-butanone	6.24	43	2649201	104.53 ppb		97
18) bromochloromethane	6.56	128	956036	109.86 ppb		88
19) chloroform	6.72	83	6408166	104.21 ppb		98
20) 1,1,1-trichloroethane	6.97	97	7157330	110.93 ppb		95
21) carbon tetrachloride	7.24	117	5894342	113.11 ppb		99
22) 1,1-dichloropropene	7.25	75	6183865	98.39 ppb		95
24) benzene	7.57	78	14475078	89.00 ppb		95
25) 1,2-dichloroethane	7.61	62	3367190	93.49 ppb		99
26) trichloroethene	8.64	95	3997809	99.00 ppb		85
27) 1,2-dichloropropane	8.99	63	2858747	82.62 ppb		99
28) dibromomethane	9.18	93	1088230	93.72 ppb		91
29) bromodichloromethane	9.47	83	3830440	105.39 ppb		99
30) 2-chloroethyl vinyl ether	10.00	106	1470552	88.15 ppb		91
31) cis-1,3-dichloropropene	10.21	75	4118225	95.99 ppb		96
32) 4-methyl-2-pentanone	10.50	43	3619768	95.22 ppb		92
34) toluene	10.76	92	8622282	96.48 ppb		100
35) Iodomethane	3.64	142	4489956	122.56 ppb		98
36) trans-1,3-dichloropropene	11.16	75	3265660	99.88 ppb		97
37) Vinyl acetate	5.37	86	623448	219.71 ppb		96
38) Carbon disulfide	3.73	76	11359050	89.18 ppb		98
40) 1,1,2-trichloroethane	11.46	83	1253525	98.83 ppb		94
41) tetrachloroethene	11.68	166	3759511	129.29 ppb		94
42) 1,3-dichloropropane	11.73	76	2872028	100.62 ppb		96
43) 2-hexanone	11.92	43	3487951	121.56 ppb		88
44) dibromochloromethane	12.11	129	1920224	137.16 ppb		99
45) 1,2-dibromoethane	12.28	107	1302758	101.29 ppb		94
46) chlorobenzene	13.15	112	7276139	106.55 ppb		95
47) 1,1,1,2-tetrachloroethane	13.31	131	2479443	141.31 ppb	#	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729304.D Vial: 4
Acq On : 29 Jul 2005 9:38 am Operator: JTF
Sample : lcs3072905b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 10:03 2005 Quant Results File: 8260SSC.RES

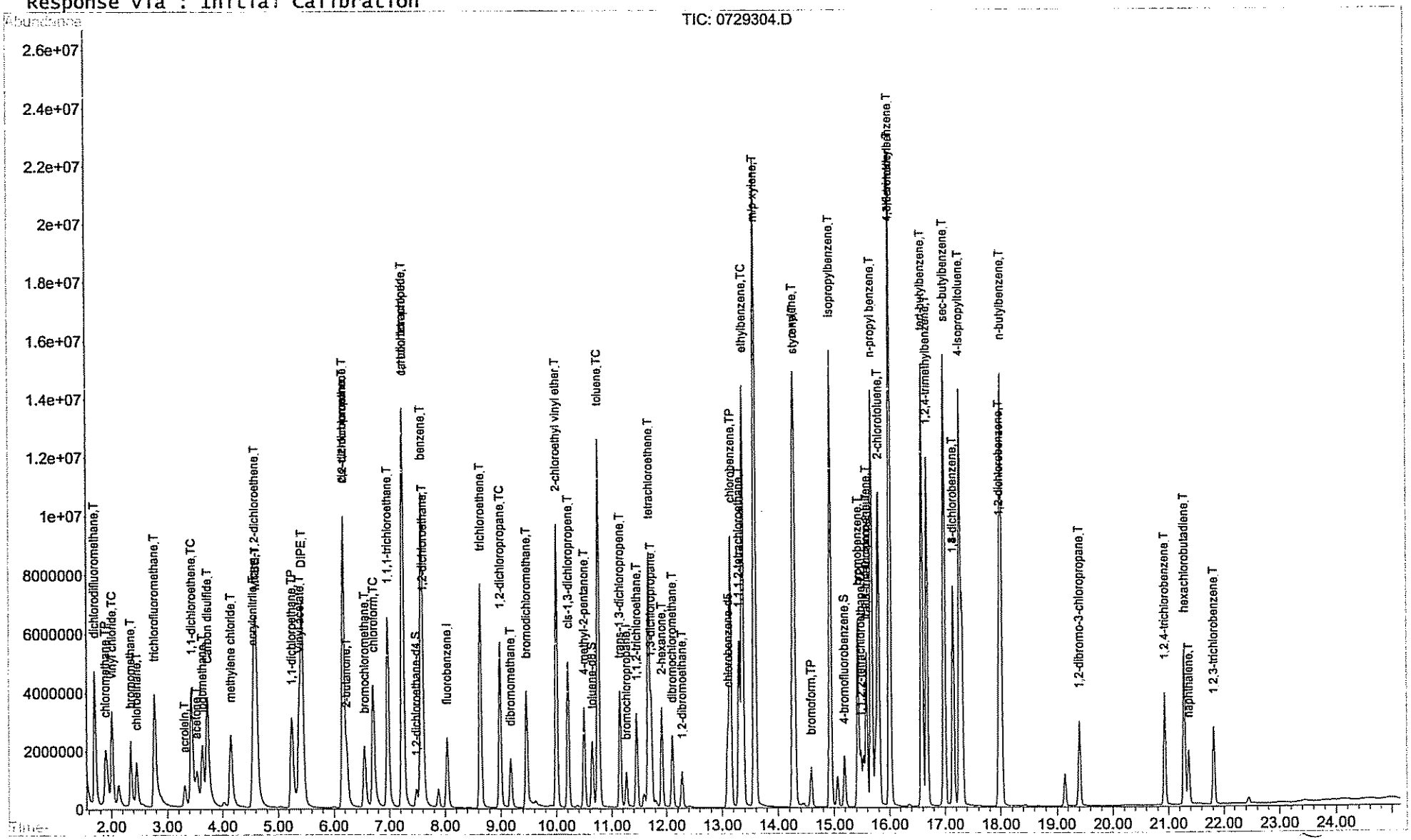
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.59	173	942723	126.46 ppb		95
50)	bromobenzene	15.43	156	2533842	130.19 ppb		84
51)	1,1,2,2-tetrachloroethane	15.49	83	1475175	103.74 ppb	#	92
52)	1,2,3-trichloropropane	15.59	75	2054246	108.94 ppb		95
54)	ethylbenzene	13.37	91	17269897	101.45 ppb		98
55)	m/p-xylene	13.58	106	10796651	185.62 ppb		91
56)	styrene	14.30	104	6496013	92.41 ppb		100
57)	o-xylene	14.27	106	4706498	92.10 ppb		88
58)	isopropylbenzene	14.94	105	15648046	99.44 ppb		98
59)	n-propyl benzene	15.68	91	18491704	94.23 ppb		96
60)	2-chlorotoluene	15.80	126	2718957	106.11 ppb		86
61)	4-chlorotoluene	16.00	126	2652015	108.17 ppb		82
62)	1,3,5-trimethylbenzene	16.01	105	11726575	98.57 ppb		98
63)	tert-butylbenzene	16.58	119	10249788	102.80 ppb		100
64)	1,2,4-trimethylbenzene	16.67	105	10681600	96.42 ppb		99
65)	sec-butylbenzene	16.99	105	16287371	95.49 ppb	#	89
66)	1,3-dichlorobenzene	17.14	146	4704980	112.63 ppb		94
67)	4-isopropyltoluene	17.26	119	12176972	100.87 ppb		96
68)	1,4-dichlorobenzene	17.14	146	4704980	112.63 ppb		94
69)	1,2-dichlorobenzene	17.97	146	3580396	109.58 ppb		93
70)	n-butylbenzene	18.01	91	12792388	95.07 ppb	#	91
71)	1,2-dibromo-3-chloropropan	19.40	75	1284295	442.86 ppb		92
72)	1,2,4-trichlorobenzene	20.93	180	1759765	96.13 ppb		100
73)	hexachlorobutadiene	21.28	225	1548614	126.58 ppb		96
74)	naphthalene	21.36	128	2317167	110.46 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.59	89	1132894	501.76 ppb		84
76)	1,2,3-trichlorobenzene	21.82	180	1289718	91.94 ppb		99
77)	MTBE	4.62	73	6134079	96.61 ppb	#	92
78)	DIPE	5.42	45	11417513	92.47 ppb		97

(#) = qualifier out of range (m) = manual integration
0729304.D 8260SSC.M Tue Aug 02 16:50:44 2005

Data File : C:\HPCHEM\1\DATA\3072905\0729304.D Vial: 4
Acq On : 29 Jul 2005 9:38 am Operator: JTF
Sample : lcs3072905b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 10:03 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	7/29/2005
Benzene	BQL	5.00	1	7/29/2005
Bromobenzene	BQL	5.00	1	7/29/2005
Bromochloromethane	BQL	5.00	1	7/29/2005
Bromodichloromethane	BQL	5.00	1	7/29/2005
Bromoform	BQL	5.00	1	7/29/2005
Bromomethane	BQL	5.00	1	7/29/2005
2-Butanone	BQL	25.0	1	7/29/2005
n-Butylbenzene	BQL	5.00	1	7/29/2005
sec-Butylbenzene	BQL	5.00	1	7/29/2005
tert-Butylbenzene	BQL	5.00	1	7/29/2005
Carbon disulfide	BQL	5.00	1	7/29/2005
Carbon tetrachloride	BQL	5.00	1	7/29/2005
Chlorobenzene	BQL	5.00	1	7/29/2005
Chloroethane	BQL	5.00	1	7/29/2005
Chloroform	BQL	5.00	1	7/29/2005
Chloromethane	BQL	5.00	1	7/29/2005
2-Chlorotoluene	BQL	5.00	1	7/29/2005
4-Chlorotoluene	BQL	5.00	1	7/29/2005
Dibromochloromethane	BQL	5.00	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/29/2005
Dibromomethane	BQL	5.00	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	7/29/2005
1,2-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,3-Dichlorobenzene	BQL	5.00	1	7/29/2005
1,4-Dichlorobenzene	BQL	5.00	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	7/29/2005
1,1-Dichloroethane	BQL	5.00	1	7/29/2005
1,1-Dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloroethane	BQL	5.00	1	7/29/2005
cis-1,2-Dichloroethene	BQL	5.00	1	7/29/2005
trans-1,2-dichloroethene	BQL	5.00	1	7/29/2005
1,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,3-Dichloropropane	BQL	5.00	1	7/29/2005
2,2-Dichloropropane	BQL	5.00	1	7/29/2005
1,1-Dichloropropene	BQL	5.00	1	7/29/2005
cis-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
trans-1,3-Dichloropropene	BQL	5.00	1	7/29/2005
Dichlorodifluoromethane	BQL	5.00	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	7/29/2005
Ethylbenzene	BQL	5.00	1	7/29/2005
Hexachlorobutadiene	BQL	5.00	1	7/29/2005
2-Hexanone	BQL	5.00	1	7/29/2005
Iodomethane	BQL	5.00	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3072905A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	7/29/2005
4-Isopropyltoluene	BQL	5.00	1	7/29/2005
Methylene chloride	BQL	20.0	1	7/29/2005
4-Methyl-2-pentanone	BQL	5.00	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	7/29/2005
Naphthalene	BQL	5.00	1	7/29/2005
n-Propyl benzene	BQL	5.00	1	7/29/2005
Styrene	BQL	5.00	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	7/29/2005
Tetrachloroethene	BQL	5.00	1	7/29/2005
Toluene	BQL	5.00	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	7/29/2005
Trichloroethene	BQL	5.00	1	7/29/2005
1,1,1-Trichloroethane	BQL	5.00	1	7/29/2005
1,1,2-Trichloroethane	BQL	5.00	1	7/29/2005
Trichlorofluoromethane	BQL	5.00	1	7/29/2005
1,2,3-Trichloropropane	BQL	5.00	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	7/29/2005
Vinyl chloride	BQL	5.00	1	7/29/2005
m-,p-Xylene	BQL	10.0	1	7/29/2005
o-Xylene	BQL	5.00	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	55.1	110
1,2-Dichloroethane-d4	50	59.7	119
Toluene-d8	50	51.1	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729307.D Vial: 7
Acq On : 29 Jul 2005 11:11 am Operator: JTF
Sample : vblk3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 1 8:37 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.04	96	2359705	50.00 ppb	-0.02
39) bromochloropropane	11.27	79	251612	50.00 ppb	-0.03
53) chlorobenzene-d5	13.10	117	1429558	50.00 ppb	-0.03
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.49	65	692205	59.71 ppb	-0.03
Spiked Amount 50.000			Recovery	= 119.42%	
33) toluene-d8	10.65	98	1711803	51.05 ppb	-0.02
Spiked Amount 50.000			Recovery	= 102.10%	
49) 4-bromofluorobenzene	15.19	95	761311	55.13 ppb	-0.02
Spiked Amount 50.000			Recovery	= 110.26%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.71	85	2825	0.06 ppb #	41
3) chloromethane	1.92	50	2762	0.07 ppb #	48
4) vinyl chloride	2.02	62	2339	0.05 ppb #	18
5) bromomethane	2.40	94	1158	Below Cal	94
8) acrolein	3.33	56	686	0.64 ppb #	15
9) 1,1-dichloroethene	3.44	96	2510	0.10 ppb #	1
10) acetone	3.53	43	8920	Below Cal #	60
11) methylene chloride	4.17	84	18252	0.97 ppb #	82
12) trans-1,2-dichloroethene	4.69	96	683	0.03 ppb #	1
15) 2,2-dichloropropane	6.17	77	721	0.01 ppb #	58
16) cis-1,2-dichloroethene	6.20	96	3842	0.15 ppb #	1
17) 2-butanone	6.23	43	3163	0.17 ppb #	52
19) chloroform	6.70	83	639	0.01 ppb #	19
22) 1,1-dichloropropene	7.25	75	1413	0.03 ppb #	44
24) benzene	7.58	78	28126	0.24 ppb	93
26) trichloroethene	8.64	95	895	0.03 ppb #	12
31) cis-1,3-dichloropropene	10.22	75	2509	0.08 ppb #	56
32) 4-methyl-2-pentanone	10.51	43	3327	0.12 ppb #	43
34) toluene	10.76	92	12957	0.20 ppb #	68
36) trans-1,3-dichloropropene	11.16	75	1467	0.06 ppb #	56
38) Carbon disulfide	3.73	76	9815	0.11 ppb #	53
42) 1,3-dichloropropane	11.73	76	1736	0.08 ppb #	44
43) 2-hexanone	11.93	43	10736	0.48 ppb #	36
46) chlorobenzene	13.16	112	10448	0.20 ppb #	61
50) bromobenzene	15.43	156	5465	0.36 ppb #	70
54) ethylbenzene	13.36	91	14422	0.12 ppb #	59
55) m/p-xylene	13.57	106	11667	0.28 ppb	99
56) styrene	14.30	104	8896	0.18 ppb	100
57) o-xylene	14.26	106	1383	0.04 ppb #	1
58) isopropylbenzene	14.92	105	5644	0.05 ppb #	53
59) n-propyl benzene	15.68	91	15727	0.11 ppb #	81
60) 2-chlorotoluene	15.80	126	2682	0.15 ppb #	56
61) 4-chlorotoluene	16.00	126	4633	0.26 ppb #	54
62) 1,3,5-trimethylbenzene	16.02	105	7565	0.09 ppb #	46
63) tert-butylbenzene	16.57	119	2259	0.03 ppb	100
64) 1,2,4-trimethylbenzene	16.68	105	11933	0.15 ppb #	70
65) sec-butylbenzene	16.99	105	6576	0.05 ppb #	65
66) 1,3-dichlorobenzene	17.15	146	13573	0.45 ppb #	88
67) 4-isopropyltoluene	17.28	119	6823	0.08 ppb #	58
68) 1,4-dichlorobenzene	17.15	146	13573	0.45 ppb #	88
69) 1,2-dichlorobenzene	17.98	146	7621	0.32 ppb #	87
70) n-butylbenzene	18.01	91	15527	0.16 ppb #	90
72) 1,2,4-trichlorobenzene	20.93	180	10036	0.76 ppb #	80

(#) = qualifier out of range (m) = manual integration
0729307.D 8260SSC.M Tue Aug 02 16:50:52 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729307.D Vial: 7
Acq On : 29 Jul 2005 11:11 am Operator: JTF
Sample : vblk3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 1 8:37 2005 Quant Results File: 8260SSC.RES

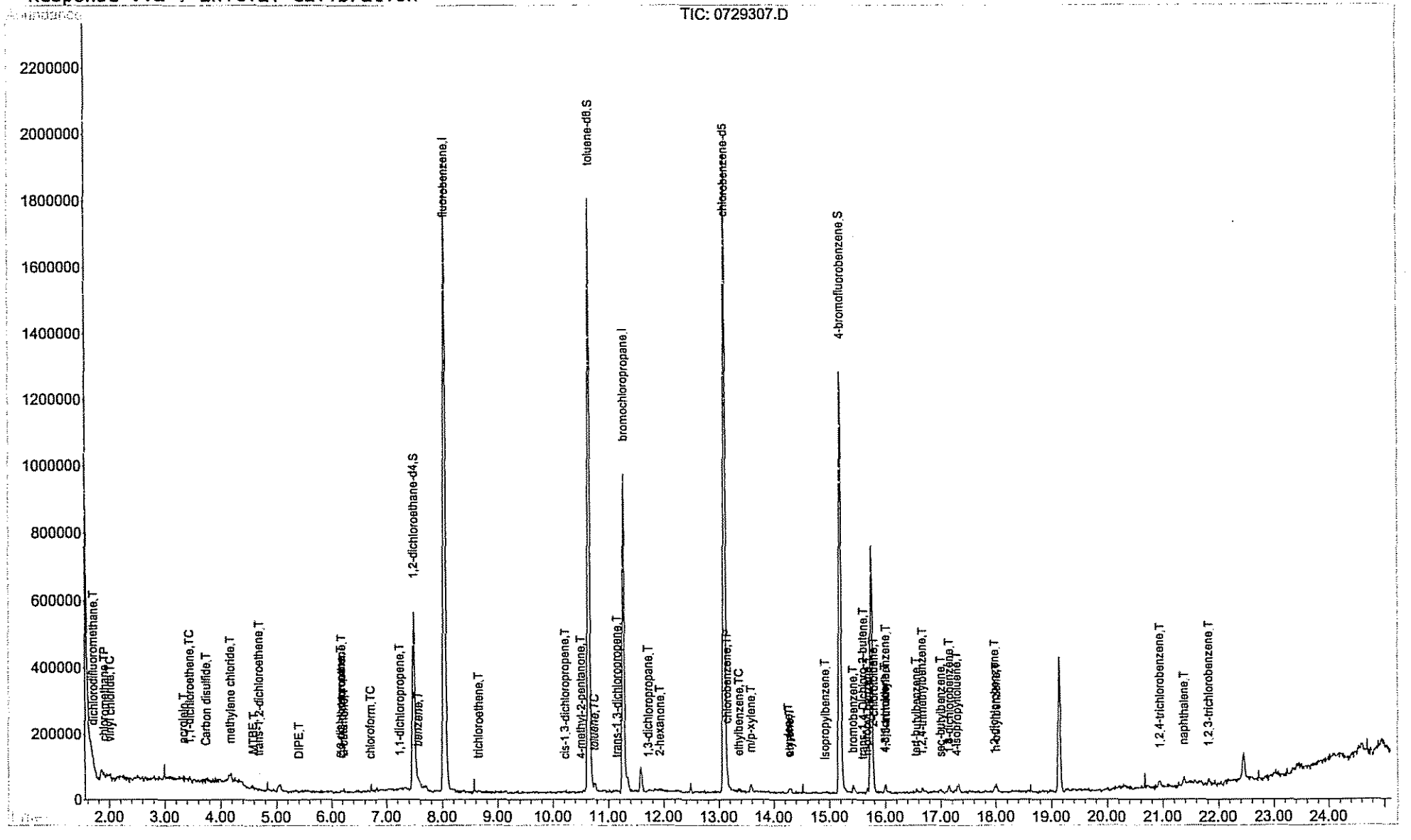
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
74)	naphthalene	21.38	128	28697	0.44	ppb		100
75)	trans-1,4-Dichloro-2-buten	15.59	89	625	0.38	ppb	#	13
76)	1,2,3-trichlorobenzene	21.82	180	5364	0.53	ppb	#	59
77)	MTBE	4.60	73	1293	0.03	ppb	#	52
78)	DIPE	5.40	45	700	0.01	ppb	#	49

(#) = qualifier out of range (m) = manual integration
0729307.D 8260SSC.M Tue Aug 02 16:50:52 2005

Data File : C:\HPCHEM\1\DATA\3072905\0729307.D Vial: 7
Acq On : 29 Jul 2005 11:11 am Operator: JTF
Sample : vblk3072905a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 1 8:37 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Inst: MSD3 Batch ID: 3072905

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-4a Matrix:Soil Diln: 1

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	100	106	106	100	118	118	10.8	30	6.81-355
acrolein	BQL	1000	658	65.8	1000	784	78.4	17.4	30	NA-6510
acrylonitrile	BQL	1000	693	69.3	1000	768	76.8	10.3	30	NA-5670
benzene	BQL	100	88.9	88.9	100	86.6	86.6	2.67	30	74.8-133
bromobenzene	BQL	100	133	133	100	131	131	1.63	30	66.1-140
bromochloromethane	BQL	100	108	108	100	109	109	0.294	30	85.1-136
bromodichloromethane	BQL	100	92.1	92.1	100	96.1	96.1	4.21	30	77.4-140
bromoform	BQL	100	121	121	100	127	127	4.66	30	74.7-161
bromomethane	BQL	100	79.7	79.7	100	98.7	98.7	21.3	30	30.4-127
2-butanone	BQL	100	93.5	93.5	100	97.7	97.7	4.34	30	40.9-256
n-butylbenzene	BQL	100	96.1	96.1	100	97.2	97.2	1.20	30	41.2-147
sec-butylbenzene	BQL	100	87.3	87.3	100	93.3	93.3	6.67	30	56.7-138
tert-butylbenzene	BQL	100	100	100	100	99.7	99.7	0.430	30	60.5-142
Carbon disulfide	BQL	100	90.2	90.2	100	89.2	89.2	1.04	30	64.3-145
carbon tetrachloride	BQL	100	99.3	99.3	100	104	104	5.07	30	64.2-142
chlorobenzene	BQL	100	112	112	100	109	109	2.94	30	66.3-135
chloroethane	BQL	100	114	114	100	113	113	1.08	30	20.7-182
2-chloroethyl vinyl ether	BQL	100	71.5	71.5*	100	80.8	80.8*	12.3	30	0.00-0.00
chloroform	BQL	100	96.0	96.0	100	97.9	97.9	1.97	30	71.1-143
chloromethane	BQL	100	91.3	91.3	100	103	103	11.9	30	69.1-138
2-chlorotoluene	BQL	100	103	103	100	103	103	0.0876	30	59.8-144
4-chlorotoluene	BQL	100	104	104	100	106	106	2.01	30	59.0-141
dibromochloromethane	BQL	100	130	130	100	137	137	5.36	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	500	400	80.1	500	439	87.8	9.23	30	43.4-229
1,2-dibromomethane	BQL	100	100	100	100	104	104	4.17	30	78.3-148
dibromomethane	BQL	100	84.0	84.0	100	89.5	89.5	6.37	30	80.0-150
1,2-dichlorobenzene	BQL	100	110	110	100	111	111	1.10	30	57.5-148
1,3-dichlorobenzene	BQL	100	113	113	100	114	114	0.273	30	55.0-145
1,4-dichlorobenzene	BQL	100	113	113	100	114	114	0.273	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	500	429	85.9	500	468	93.7	8.72	30	48.9-211
dichlorodifluoromethane	BQL	100	104	104	100	121	121	14.8	30	81.6-130
1,1-dichloroethane	BQL	100	87.8	87.8	100	86.3	86.3	1.76	30	71.6-139
1,2-dichloroethane	BQL	100	76.8	76.8	100	84.4	84.4	9.35	30	72.9-146
1,1-dichloroethene	BQL	100	95.8	95.8	100	94.3	94.3	1.59	30	72.0-135
cis-1,2-dichloroethene	BQL	100	94.4	94.4	100	91.3	91.3	3.28	30	76.9-134
trans-1,2-dichloroethene	BQL	100	100	100	100	95.0	95.0	5.63	30	72.0-135
1,2-dichloropropane	BQL	100	79.8	79.8	100	79.3	79.3	0.704	30	76.1-136
1,3-dichloropropane	BQL	100	100	100	100	102	102	1.39	30	83.2-137
2,2-dichloropropane	BQL	100	97.2	97.2	100	99.9	99.9	2.73	30	58.0-150
1,1-dichloropropene	BQL	100	93.9	93.9	100	94.1	94.1	0.202	30	68.5-137
cis-1,3-dichloropropene	BQL	100	87.1	87.1	100	89.4	89.4	2.62	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 5 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2081-4a

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	100	85.5	85.5	100	91.5	91.5	6.74	30	72.5-152
Diisopropyl ether	BQL	100	93.6	93.6	100	91.6	91.6	2.17	30	59.9-147
ethylbenzene	BQL	100	92.8	92.8	100	99.0	99.0	6.44	30	68.5-135
hexachlorobutadiene	BQL	100	142	142	100	141	141	0.905	30	12.1-169
2-hexanone	BQL	100	115	115	100	117	117	1.55	30	39.9-238
Iodomethane	BQL	100	123	123	100	123	123	0.196	30	39.5-177
isopropylbenzene	BQL	100	92.9	92.9	100	97.6	97.6	4.89	30	63.7-135
4-isopropyltoluene	BQL	100	100	100	100	102	102	1.55	30	53.2-142
Methyl-tert-butyl ether	BQL	100	92.1	92.1	100	94.7	94.7	2.82	30	73.3-155
methylene chloride	BQL	100	94.0	94.0	100	95.0	95.0	1.04	30	54.3-156
4-methyl-2-pentanone	BQL	100	80.0	80.0	100	86.1	86.1	7.34	30	47.2-227
naphthalene	BQL	100	119	119	100	125	125	4.99	30	14.4-218
n-propyl benzene	BQL	100	83.7	83.7	100	91.2	91.2	8.63	30	61.7-134
styrene	BQL	100	89.4	89.4	100	90.9	90.9	1.74	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	100	142	142*	100	141	141*	0.452	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	100	102	102	100	106	106	4.07	30	68.8-175
tetrachloroethene	BQL	100	142	142*	100	136	136	4.44	30	61.6-137
toluene	BQL	100	94.0	94.0	100	92.9	92.9	1.07	30	70.5-138
1,2,3-trichlorobenzene	BQL	100	109	109	100	105	105	3.94	30	13.2-190
1,2,4-trichlorobenzene	BQL	100	113	113	100	108	108	4.26	30	9.93-187
1,1,1-trichloroethane	BQL	100	99.3	99.3	100	103	103	3.86	30	66.9-142
1,1,2-trichloroethane	BQL	100	100	100	100	103	103	3.02	30	84.9-139
trichloroethene	BQL	100	95.9	95.9	100	95.2	95.2	0.764	30	60.7-152
trichlorofluoromethane	BQL	100	98.4	98.4	100	112	112	12.9	30	55.0-162
1,2,3-trichloropropane	BQL	100	103	103	100	101	101	1.43	30	55.1-197
1,2,4-trimethylbenzene	BQL	100	94.9	94.9	100	95.3	95.3	0.484	30	61.1-141
1,3,5-trimethylbenzene	BQL	100	94.6	94.6	100	96.2	96.2	1.64	30	61.8-138
Vinyl acetate	BQL	250	220	88.0	250	223	89.2	1.38	30	NA-NA
vinyl chloride	BQL	100	85.1	85.1	100	95.7	95.7	11.7	30	80.9-129
m/p-xylene	BQL	200	186	93.2	200	183	91.7	1.57	30	68.0-135
o-xylene	BQL	100	91.7	91.7	100	91.7	91.7	0.0545	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 5 out of 144 outside of limits

COMMENTS: _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729309.D Vial: 9
Acq On : 29 Jul 2005 12:13 pm Operator: JTF
Sample : g161-2081-4a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 1 8:49 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

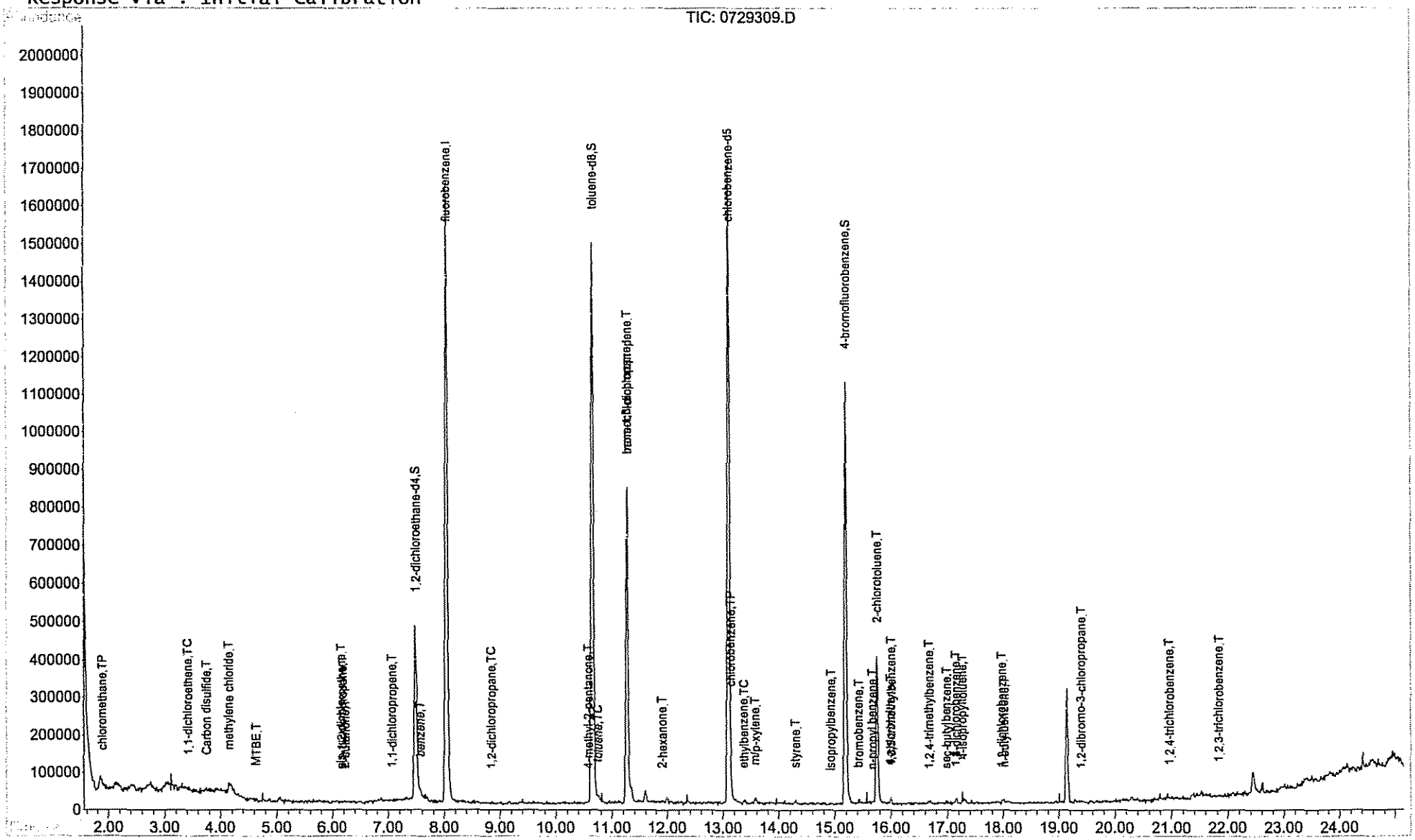
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.04	96	2038627	50.00 ppb	-0.02
39) bromochloropropane	11.27	79	192210	50.00 ppb	-0.03
53) chlorobenzene-d5	13.10	117	1231719	50.00 ppb	-0.03
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.49	65	620672	61.97 ppb	-0.03
Spiked Amount 50.000			Recovery	= 123.94%	
33) toluene-d8	10.65	98	1486285	51.30 ppb	-0.02
Spiked Amount 50.000			Recovery	= 102.60%	
49) 4-bromofluorobenzene	15.19	95	645322	61.17 ppb	-0.02
Spiked Amount 50.000			Recovery	= 122.34%	

Target Compounds					Qvalue
3) chloromethane	1.90	50	736	0.02 ppb #	48
5) bromomethane	2.37	94	1448	Below Cal #	1
9) 1,1-dichloroethene	3.42	96	709	0.03 ppb #	1
10) acetone	3.55	43	16777	Below Cal #	46
11) methylene chloride	4.16	84	19734	1.21 ppb #	79
15) 2,2-dichloropropane	6.19	77	709	0.02 ppb #	58
16) cis-1,2-dichloroethene	6.16	96	706	0.03 ppb #	1
17) 2-butanone	6.24	43	1517	0.10 ppb #	52
22) 1,1-dichloropropene	7.07	75	619	0.02 ppb #	44
24) benzene	7.58	78	19333	0.19 ppb #	84
27) 1,2-dichloropropane	8.85	63	622	0.03 ppb #	89
32) 4-methyl-2-pentanone	10.58	43	655	0.03 ppb #	43
34) toluene	10.76	92	7371	0.13 ppb	85
36) trans-1,3-dichloropropene	11.27	75	14367	0.71 ppb #	56
38) Carbon disulfide	3.74	76	4978	0.06 ppb #	77
43) 2-hexanone	11.92	43	4473	0.26 ppb #	46
46) chlorobenzene	13.15	112	6438	0.16 ppb #	87
50) bromobenzene	15.42	156	2299	0.20 ppb #	78
54) ethylbenzene	13.37	91	6911	0.07 ppb #	70
55) m/p-xylene	13.57	106	4798	0.13 ppb #	20
56) styrene	14.30	104	3436	0.08 ppb	100
58) isopropylbenzene	14.94	105	1685	0.02 ppb #	53
59) n-propyl benzene	15.67	91	10272	0.08 ppb #	72
60) 2-chlorotoluene	15.75	126	653	0.04 ppb #	1
61) 4-chlorotoluene	15.99	126	777	0.05 ppb #	1
62) 1,3,5-trimethylbenzene	16.02	105	2160	0.03 ppb	97
64) 1,2,4-trimethylbenzene	16.68	105	6365	0.09 ppb #	34
65) sec-butylbenzene	16.98	105	2382	0.02 ppb #	65
66) 1,3-dichlorobenzene	17.15	146	9410	0.36 ppb #	81
67) 4-isopropyltoluene	17.28	119	3977	0.05 ppb #	51
68) 1,4-dichlorobenzene	17.15	146	9410	0.36 ppb #	81
69) 1,2-dichlorobenzene	17.98	146	5892	0.29 ppb #	87
70) n-butylbenzene	18.02	91	10422	0.12 ppb #	60
71) 1,2-dibromo-3-chloropropan	19.40	75	748	0.42 ppb #	13
72) 1,2,4-trichlorobenzene	20.95	180	6092	0.54 ppb #	57
74) naphthalene	21.38	128	14013	Below Cal	100
76) 1,2,3-trichlorobenzene	21.82	180	2990	0.34 ppb	86
77) MTBE	4.64	73	2862	0.07 ppb #	1

(#) = qualifier out of range (m) = manual integration
0729309.D 8260SSC.M Tue Aug 02 16:51:03 2005

Data File : C:\HPCHEM\1\DATA\3072905\0729309.D Vial: 9
Acq On : 29 Jul 2005 12:13 pm Operator: JTF
Sample : g161-2081-4a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 1 8:49 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729318.D Vial: 18
Acq On : 29 Jul 2005 4:54 pm Operator: JTF
Sample : g161-2081-4a ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:20 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.04	96	4263578	50.00	ppb	-0.01
39) bromochloropropane	11.28	79	385083	50.00	ppb	-0.02
53) chlorobenzene-d5	13.11	117	2485806	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.50	65	815120	38.91	ppb	-0.01
Spiked Amount 50.000			Recovery	=	77.82%	
33) toluene-d8	10.65	98	2986346	49.29	ppb	-0.01
Spiked Amount 50.000			Recovery	=	98.58%	
49) 4-bromofluorobenzene	15.19	95	1189906	56.30	ppb	-0.01
Spiked Amount 50.000			Recovery	=	112.60%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	8494069	104.45	ppb		96
3) chloromethane	1.90	50	6198014	91.28	ppb		97
4) vinyl chloride	2.02	62	6740955	85.11	ppb		99
5) bromomethane	2.35	94	1854478	79.67	ppb		97
6) chloroethane	2.46	64	2744391	114.27	ppb		99
7) trichlorofluoromethane	2.79	101	7979267	98.36	ppb		98
8) acrolein	3.32	56	1273962	658.28	ppb		98
9) 1,1-dichloroethene	3.45	96	4307536	95.82	ppb		86
10) acetone	3.55	43	2491077	106.38	ppb		92
11) methylene chloride	4.16	84	3251709	95.27	ppb		90
12) trans-1,2-dichloroethene	4.59	96	4763147	100.54	ppb		83
13) acrylonitrile	4.56	53	4655225	692.71	ppb		96
14) 1,1-dichloroethane	5.25	63	8239162	87.82	ppb		99
15) 2,2-dichloropropane	6.18	77	8538194	97.20	ppb		100
16) cis-1,2-dichloroethene	6.19	96	4278023	94.43	ppb		86
17) 2-butanone	6.25	43	3086675	93.62	ppb		98
18) bromochloromethane	6.56	128	1228294	108.50	ppb		84
19) chloroform	6.72	83	7677520	95.97	ppb		97
20) 1,1,1-trichloroethane	6.99	97	8332871	99.28	ppb	#	92
21) carbon tetrachloride	7.24	117	6730879	99.29	ppb		98
22) 1,1-dichloropropene	7.25	75	7677947	93.91	ppb		98
24) benzene	7.59	78	18851264	89.10	ppb		94
25) 1,2-dichloroethane	7.62	62	3600080	76.84	ppb	#	96
26) trichloroethene	8.64	95	5039883	95.94	ppb	#	83
27) 1,2-dichloropropane	9.00	63	3595262	79.88	ppb		99
28) dibromomethane	9.19	93	1268931	84.01	ppb	#	88
29) bromodichloromethane	9.47	83	4354924	92.11	ppb		98
30) 2-chloroethyl vinyl ether	10.01	106	1540106	71.46	ppb		88
31) cis-1,3-dichloropropene	10.22	75	4862839	87.13	ppb		99
32) 4-methyl-2-pentanone	10.51	43	3959143	80.06	ppb		93
34) toluene	10.77	92	10936714	94.08	ppb		95
35) Iodomethane	3.65	142	5855521	122.87	ppb		88
36) trans-1,3-dichloropropene	11.16	75	3667681	86.23	ppb		98
37) Vinyl acetate	5.38	86	812254	220.04	ppb		80
38) Carbon disulfide	3.73	76	14951607	90.24	ppb		98
40) 1,1,2-trichloroethane	11.46	83	1516685	100.12	ppb		97
41) tetrachloroethene	11.69	166	4930211	141.95	ppb		97
42) 1,3-dichloropropane	11.74	76	3425457	100.47	ppb		99
43) 2-hexanone	11.93	43	3957522	115.47	ppb		87
44) dibromochloromethane	12.11	129	2173504	129.98	ppb		99
45) 1,2-dibromoethane	12.29	107	1541223	100.32	ppb		97
46) chlorobenzene	13.16	112	9144312	112.11	ppb		98
47) 1,1,1,2-tetrachloroethane	13.32	131	2974411	141.93	ppb	#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729318.D Vial: 18
Acq On : 29 Jul 2005 4:54 pm Operator: JTF
Sample : g161-2081-4a ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:20 2005 Quant Results File: 8260SSC.RES

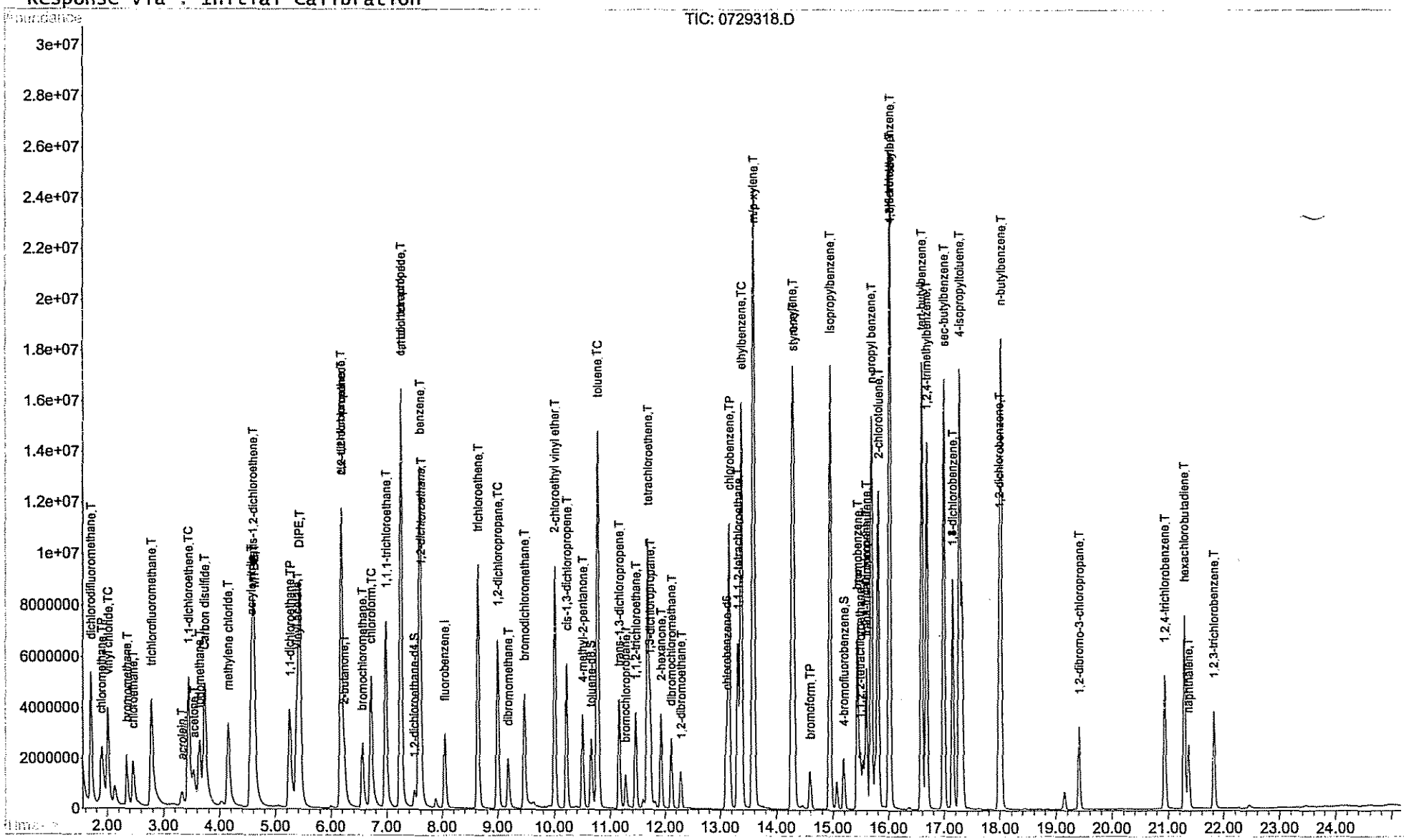
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	1078722	121.15 ppb		94
50)	bromobenzene	15.44	156	3093769	133.08 ppb	#	76
51)	1,1,2,2-tetrachloroethane	15.49	83	1730753	101.90 ppb	#	92
52)	1,2,3-trichloropropane	15.59	75	2317199	102.88 ppb		100
54)	ethylbenzene	13.38	91	19822069	92.88 ppb		97
55)	m/p-xylene	13.59	106	13597251	186.47 ppb		74
56)	styrene	14.30	104	7882534	89.45 ppb		100
57)	o-xylene	14.27	106	5874694	91.69 ppb		95
58)	isopropylbenzene	14.94	105	18335383	92.94 ppb		95
59)	n-propyl benzene	15.68	91	20612004	83.78 ppb	#	90
60)	2-chlorotoluene	15.81	126	3300882	102.76 ppb		82
61)	4-chlorotoluene	16.01	126	3205558	104.29 ppb		76
62)	1,3,5-trimethylbenzene	16.02	105	14114690	94.63 ppb		96
63)	tert-butylbenzene	16.59	119	12512734	100.11 ppb		97
64)	1,2,4-trimethylbenzene	16.68	105	13189143	94.96 ppb		99
65)	sec-butylbenzene	16.99	105	18665085	87.29 ppb	#	81
66)	1,3-dichlorobenzene	17.15	146	5956973	113.75 ppb	#	93
67)	4-isopropyltoluene	17.27	119	15145623	100.07 ppb		97
68)	1,4-dichlorobenzene	17.15	146	5956973	113.75 ppb	#	93
69)	1,2-dichlorobenzene	17.98	146	4508368	110.06 ppb	#	92
70)	n-butylbenzene	18.02	91	16225841	96.19 ppb	#	86
71)	1,2-dibromo-3-chloropropan	19.41	75	1457001	400.75 ppb	#	77
72)	1,2,4-trichlorobenzene	20.94	180	2602051	113.38 ppb		97
73)	hexachlorobutadiene	21.29	225	2178469	142.00 ppb		100
74)	naphthalene	21.37	128	3117917	118.67 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.59	89	1215340	429.36 ppb		87
76)	1,2,3-trichlorobenzene	21.82	180	1919484	109.15 ppb		100
77)	MTBE	4.63	73	7337434	92.18 ppb		95
78)	DIPE	5.43	45	14496876	93.65 ppb		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729318.D Vial: 18
Acq On : 29 Jul 2005 4:54 pm Operator: JTF
Sample : g161-2081-4a ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:20 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729319.D Vial: 19
Acq On : 29 Jul 2005 5:26 pm Operator: JTF
Sample : g161-2081-4a msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:51 2005 Quant Results File: 8260SSC.RES

Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.05	96	3546145	50.00	ppb		0.00
39) bromochloropropane	11.28	79	329192	50.00	ppb		-0.02
53) chlorobenzene-d5	13.11	117	2077317	50.00	ppb		-0.02
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.50	65	809808	46.48	ppb		-0.02
Spiked Amount 50.000			Recovery	=	92.96%		
33) toluene-d8	10.66	98	2528820	50.18	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.36%		
49) 4-bromofluorobenzene	15.20	95	1073653	59.42	ppb		0.00
Spiked Amount 50.000			Recovery	=	118.84%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.70	85	8195181	121.16	ppb		97
3) chloromethane	1.91	50	5807001	102.82	ppb		97
4) vinyl chloride	2.02	62	6301504	95.66	ppb		99
5) bromomethane	2.35	94	1882262	98.70	ppb		98
6) chloroethane	2.46	64	2259556	113.04	ppb		95
7) trichlorofluoromethane	2.78	101	7555348	111.97	ppb		100
8) acrolein	3.33	56	1261641	783.81	ppb		96
9) 1,1-dichloroethene	3.45	96	3526174	94.31	ppb		90
10) acetone	3.56	43	2292875	118.55	ppb		90
11) methylene chloride	4.16	84	2732362	96.25	ppb		92
12) trans-1,2-dichloroethene	4.59	96	3744482	95.03	ppb		85
13) acrylonitrile	4.56	53	4296134	768.06	ppb		96
14) 1,1-dichloroethane	5.26	63	6732728	86.29	ppb		96
15) 2,2-dichloropropane	6.18	77	7297755	99.89	ppb		100
16) cis-1,2-dichloroethene	6.20	96	3443229	91.38	ppb		83
17) 2-butanone	6.26	43	2681089	97.77	ppb		98
18) bromochloromethane	6.56	128	1024564	108.82	ppb		86
19) chloroform	6.72	83	6512577	97.88	ppb		97
20) 1,1,1-trichloroethane	6.99	97	7204027	103.19	ppb		94
21) carbon tetrachloride	7.25	117	5890027	104.46	ppb		99
22) 1,1-dichloropropene	7.26	75	6398929	94.10	ppb		98
24) benzene	7.59	78	15267192	86.76	ppb		96
25) 1,2-dichloroethane	7.62	62	3288224	84.38	ppb		97
26) trichloroethene	8.64	95	4159840	95.21	ppb		87
27) 1,2-dichloropropane	9.01	63	2969324	79.32	ppb	#	98
28) dibromomethane	9.19	93	1124947	89.54	ppb	#	88
29) bromodichloromethane	9.47	83	3777767	96.07	ppb		98
30) 2-chloroethyl vinyl ether	10.01	106	1455671	80.86	ppb		89
31) cis-1,3-dichloropropene	10.22	75	4151707	89.44	ppb		97
32) 4-methyl-2-pentanone	10.51	43	3543773	86.16	ppb		92
34) toluene	10.77	92	8999951	93.08	ppb		98
35) Iodomethane	3.64	142	4860715	122.63	ppb		93
36) trans-1,3-dichloropropene	11.17	75	3261951	92.20	ppb		100
37) Vinyl acetate	5.39	86	684958	223.10	ppb		81
38) Carbon disulfide	3.73	76	12308401	89.31	ppb		99
40) 1,1,2-trichloroethane	11.46	83	1336303	103.19	ppb		96
41) tetrachloroethene	11.69	166	4031503	135.79	ppb		95
42) 1,3-dichloropropane	11.74	76	2969229	101.88	ppb		97
43) 2-hexanone	11.93	43	3435799	117.27	ppb		87
44) dibromochloromethane	12.12	129	1960338	137.14	ppb		100
45) 1,2-dibromoethane	12.29	107	1373607	104.59	ppb		92
46) chlorobenzene	13.16	112	7590651	108.86	ppb		96
47) 1,1,1,2-tetrachloroethane	13.32	131	2531284	141.29	ppb		92

(#) = qualifier out of range (m) = manual integration
0729319.D 8260SSC.M Tue Aug 02 16:51:19 2005

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3072905\0729319.D Vial: 19
Acq On : 29 Jul 2005 5:26 pm Operator: JTF
Sample : g161-2081-4a msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:51 2005 Quant Results File: 8260SSC.RES

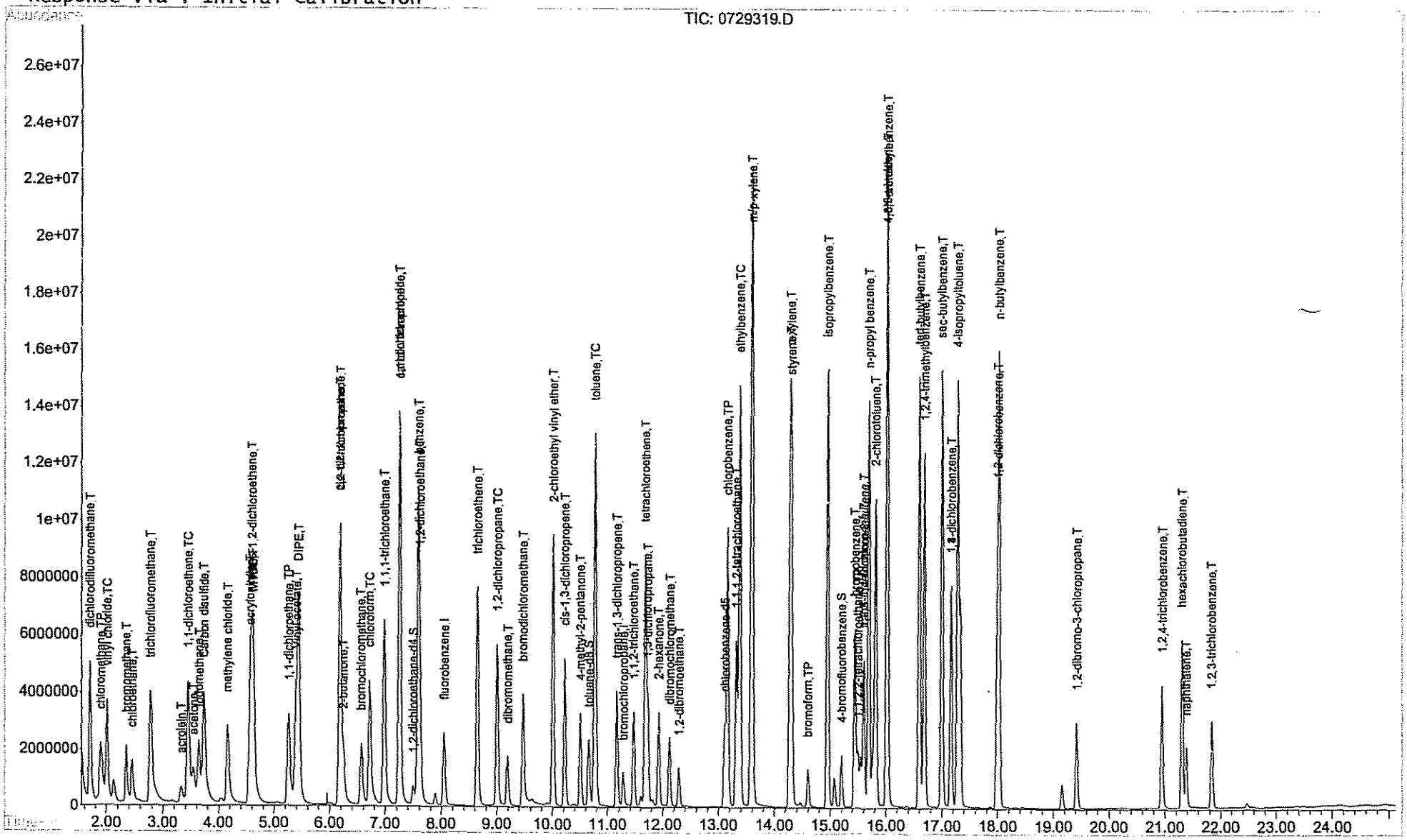
Quant Method : C:\HPCHEM\1...\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	14.60	173	966189	126.93 ppb		99
50)	bromobenzene	15.44	156	2601933	130.93 ppb	#	77
51)	1,1,2,2-tetrachloroethane	15.49	83	1541092	106.13 ppb	#	95
52)	1,2,3-trichloropropane	15.60	75	1952639	101.42 ppb	#	87
54)	ethylbenzene	13.37	91	17667004	99.06 ppb		99
55)	m/p-xylene	13.59	106	11185955	183.57 ppb		88
56)	styrene	14.31	104	6703011	91.02 ppb		100
57)	o-xylene	14.28	106	4911544	91.74 ppb		93
58)	isopropylbenzene	14.95	105	16091182	97.60 ppb		98
59)	n-propyl benzene	15.69	91	18776759	91.33 ppb		95
60)	2-chlorotoluene	15.81	126	2760965	102.85 ppb		83
61)	4-chlorotoluene	16.02	126	2733165	106.41 ppb		79
62)	1,3,5-trimethylbenzene	16.02	105	11989379	96.19 ppb		97
63)	tert-butylbenzene	16.60	119	10411910	99.68 ppb		99
64)	1,2,4-trimethylbenzene	16.69	105	11074685	95.42 ppb		98
65)	sec-butylbenzene	16.99	105	16673328	93.31 ppb	#	90
66)	1,3-dichlorobenzene	17.16	146	4991813	114.06 ppb	#	92
67)	4-isopropyltoluene	17.28	119	12853550	101.63 ppb		97
68)	1,4-dichlorobenzene	17.16	146	4991813	114.06 ppb	#	92
69)	1,2-dichlorobenzene	17.99	146	3808996	111.27 ppb	#	92
70)	n-butylbenzene	18.02	91	13722902	97.35 ppb	#	92
71)	1,2-dibromo-3-chloropropan	19.41	75	1335308	439.50 ppb		92
72)	1,2,4-trichlorobenzene	20.95	180	2084260	108.67 ppb		97
73)	hexachlorobutadiene	21.30	225	1804095	140.72 ppb		98
74)	naphthalene	21.38	128	2737120	124.74 ppb		100
75)	trans-1,4-Dichloro-2-buten	15.60	89	1108288	468.53 ppb	#	81
76)	1,2,3-trichlorobenzene	21.83	180	1542281	104.94 ppb		94
77)	MTBE	4.63	73	6306775	94.81 ppb	#	94
78)	DIPE	5.44	45	11854261	91.64 ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\3072905\0729319.D Vial: 19
Acq On : 29 Jul 2005 5:26 pm Operator: JTF
Sample : g161-2081-4a msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 17:51 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3072905\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Fri Jul 15 07:11:08 2005
Response via : Initial Calibration



5035 Prep, Standard, Run Logs

Soil BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 19	Restek 502.2 MEGA mix lot A033291	2000	50	10	10
7A- 21	restek ketones lot A034309	5000	50	10	10
7B- 21	8260rxtv-7- 0030005	10000	50	10	50
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/30/05
Prep date:
Expiration date: 7/30/05

PAL lot number: 8260SBC-7- 0030005-C06

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 27	Restek gases A034238	2000	50	10	10
7B- 124	8260ac/ac/2ceve-7- 071105	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 7/11/05
Prep date:
Expiration date: 7/11/05

PAL lot number: 8260SGC-7- 071105-C07

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 27	Restek gases A034238	2000	50	10	10
7B- 127	8260ac/ac/2ceve-7- 071805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 7/18/05
Prep date:
Expiration date: 7/18/05

PAL lot number: 8260SGC-7- 071805-C07

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 27	Restek gases A034238	2000	50	10	10
7B- 129	8260ac/ac/2ceve-7- 072505	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 7/25/05
Prep date:
Expiration date: 8/1/05

PAL lot number: 8260SGC-7- 072505-C07

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-	Restek gases	2000	50	10	10
7B-	8260ac/ac/2ceve-7-	500, 5000	200	10	10, 100
Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number: 8260SGC-7-

See reverse for any comments

page: C05

Soil BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-20	Restek 502.2 MEGA mix lot A033292	2000	50	10	10
7A-22	restek ketones lot A034310	5000	50	10	10
7B-122	8260rxtv-7- 063005	10000	50	10	50
Solvent:	Methanol LOT# C4017				

Ampule opened: 6/30/05
Prep date: +
Expiration date: 7/30/05

PAL lot number: 8260SBQ-7-063005-C6C4

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-28	Restek gases A036202	2000	50	10	10
7B-123	8260ac/ac/2ceve-7- 071105	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C4017				

Ampule opened: 7/11/05
Prep date: +
Expiration date: 7/18/05

PAL lot number: 8260SGQ-7- 071105-C6C6

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-28	Restek gases A036202	2000	50	10	10
7B-128	8260ac/ac/2ceve-7- 071805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C4017				

Ampule opened: 7/18/05
Prep date: +
Expiration date: 7/25/05

PAL lot number: 8260SGQ-7- 071805-C6C6

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-28	Restek gases A036202	2000	50	10	10
7B-130	8260ac/ac/2ceve-7- 072505	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C4017				

Ampule opened: 7/25/05
Prep date: +
Expiration date: 8/1/05

PAL lot number: 8260SGQ-7- 072505-C6C6

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-	Restek gases	2000	50	10	10
7B-	8260ac/ac/2ceve-7-	500, 5000	200	10	10, 100
Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number: 8260SGQ-7-

See reverse for any comments

page: C6C

VO27.112202.1

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66

8260WGC-7-071105-C61 8260WGQ-7-71105-C62 8260SGC-7-071105-C65 8260SGQ-7-711005-C66

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-7/14/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3071405

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0714301.D	bfb 50ng	7/14/05 7:22				JTF	✓
0714302.D	b	7/14/05 9:55				JTF	
0714303.D	b	7/14/05 10:40				JTF	
0714304.D	bfb 50ng	7/14/05 13:46				JTF	✓
0714305.D	b	7/14/05 14:17				JTF	
0714306.D	vstd5	7/14/05 14:49				JTF	✓
0714307.D	vstd10	7/14/05 15:20				JTF	✓
0714308.D	vstd20	7/14/05 15:51				JTF	✓
0714309.D	vstd50	7/14/05 16:23				JTF	✓
0714310.D	vstd100	7/14/05 16:54				JTF	✓
0714311.D	vstd200	7/14/05 17:25				JTF	✓
0714312.D	b	7/14/05 17:56				JTF	
0714313.D	b	7/14/05 18:28				JTF	
0714314.D	b	7/14/05 18:59				JTF	
0714315.D	b	7/14/05 19:30				JTF	
0714316.D	b	7/14/05 20:01				JTF	

Analyst: JTF

See Top for Standard Lot Numbers

Page Number: ~~41008~~ 32600

VO23.112202.1

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66

8260WGC-7-072505-C61 8260WGQ-7-72505-C62 8260SGC-7-072505-C65 8260SGQ-7-725005-C66

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-7/14/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3072805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0728301.D	bfb 50ng	7/28/05 7:59				JTF	
0728302.D	qchk100	7/28/05 8:29				JTF	
0728303.D	lcs3072805a	7/28/05 9:00				JTF	
0728304.D	lcs3072805b	7/28/05 9:32				JTF	
0728305.D	vblk3072805a	7/28/05 10:03				JTF	
0728306.D	vblk3072805b	7/28/05 10:34				JTF	
0728307.D	vblk3072805c	7/28/05 11:06				JTF	
0728308.D	g161-2081-10a	7/28/05 11:37				JTF	
0728309.D	g161-2081-1a	7/28/05 12:08				JTF	
0728310.D	g161-2081-2a	7/28/05 12:39				JTF	
0728311.D	g161-2081-3a	7/28/05 13:11				JTF	
0728312.D	g161-2081-4a	7/28/05 13:42				JTF	
0728313.D	g161-2081-5a	7/28/05 14:14				JTF	
0728314.D	g161-2081-6a	7/28/05 14:50				JTF	
0728315.D	g161-2081-7a	7/28/05 15:21				JTF	
0728316.D	g161-2081-8a	7/28/05 15:53				JTF	
0728317.D	g161-2081-9a	7/28/05 16:24				JTF	
0728318.D	g161-2081-9b dup	7/28/05 16:55				JTF	
0728319.D	g161-2081-4b	7/28/05 17:25				JTF	

Analyst: JTF

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8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66

8260WGC-7-072505-C61 8260WGQ-7-72505-C62 8260SGC-7-072505-C65 8260SGQ-7-725005-C66

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-7/14/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3072805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0728320.D	lcs3072805c	7/28/05 17:58				JTF	
0728321.D	g161-2081-1b ms	7/28/05 18:30				JTF	
0728322.D	g161-2081-1b msd	7/28/05 19:01				JTF	
0728323.D	b	7/28/05 19:32				JTF	
0728324.D	b	7/28/05 20:03				JTF	
0728325.D	b	7/28/05 20:34				JTF	
0728326.D	b	7/28/05 21:05				JTF	
0728327.D	g128-1570-2b	7/28/05 21:36				JTF	
0728328.D	g128-1570-5b	7/28/05 22:07				JTF	
0728329.D	g128-1570-6b	7/28/05 22:38				JTF	
0728330.D	g128-1570-7b	7/28/05 23:10				JTF	
0728331.D	g128-1570-8b	7/28/05 23:41				JTF	
0728332.D	g128-1570-9b	7/29/05 0:12				JTF	
0728333.D	g128-1570-10b	7/29/05 0:44				JTF	
0728334.D	g128-1570-11b	7/29/05 1:15				JTF	

Analyst: JTF

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8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66

8260WGC-7-072505-C61 8260WGQ-7-72505-C62 8260SGC-7-072505-C65 8260SGQ-7-725005-C66

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-7/14/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3072905

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0729301.D	bfb 50ng	7/29/05 8:05				JTF	
0729302.D	qchk100	7/29/05 8:36				JTF	
0729303.D	lcs3072905a	7/29/05 9:07				JTF	
0729304.D	lcs3072905b	7/29/05 9:38				JTF	
0729305.D	b	7/29/05 10:08				JTF	
0729306.D	b	7/29/05 10:39				JTF	
0729307.D	vblk3072905a	7/29/05 11:11				JTF	
0729308.D	g161-2081-3a	7/29/05 11:42				JTF	
0729309.D	g161-2081-4a	7/29/05 12:13				JTF	
0729310.D	g161-2081-5a	7/29/05 12:45				JTF	
0729311.D	g460-31-8a	7/29/05 13:16				JTF	
0729312.D	g460-31-2a	7/29/05 13:47				JTF	
0729313.D	g460-31-1a	7/29/05 14:19				JTF	
0729314.D	g100-647-2a	7/29/05 14:50				JTF	
0729315.D	g100-647-4a	7/29/05 15:21				JTF	
0729316.D	g211-1838-1a	7/29/05 15:52				JTF	
0729317.D	g161-2081-3a dup	7/29/05 16:23				JTF	
0729318.D	g161-2081-4a ms	7/29/05 16:54				JTF	
0729319.D	g161-2081-4a msd	7/29/05 17:26				JTF	

Analyst: JTF

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EPH Sample Raw Data

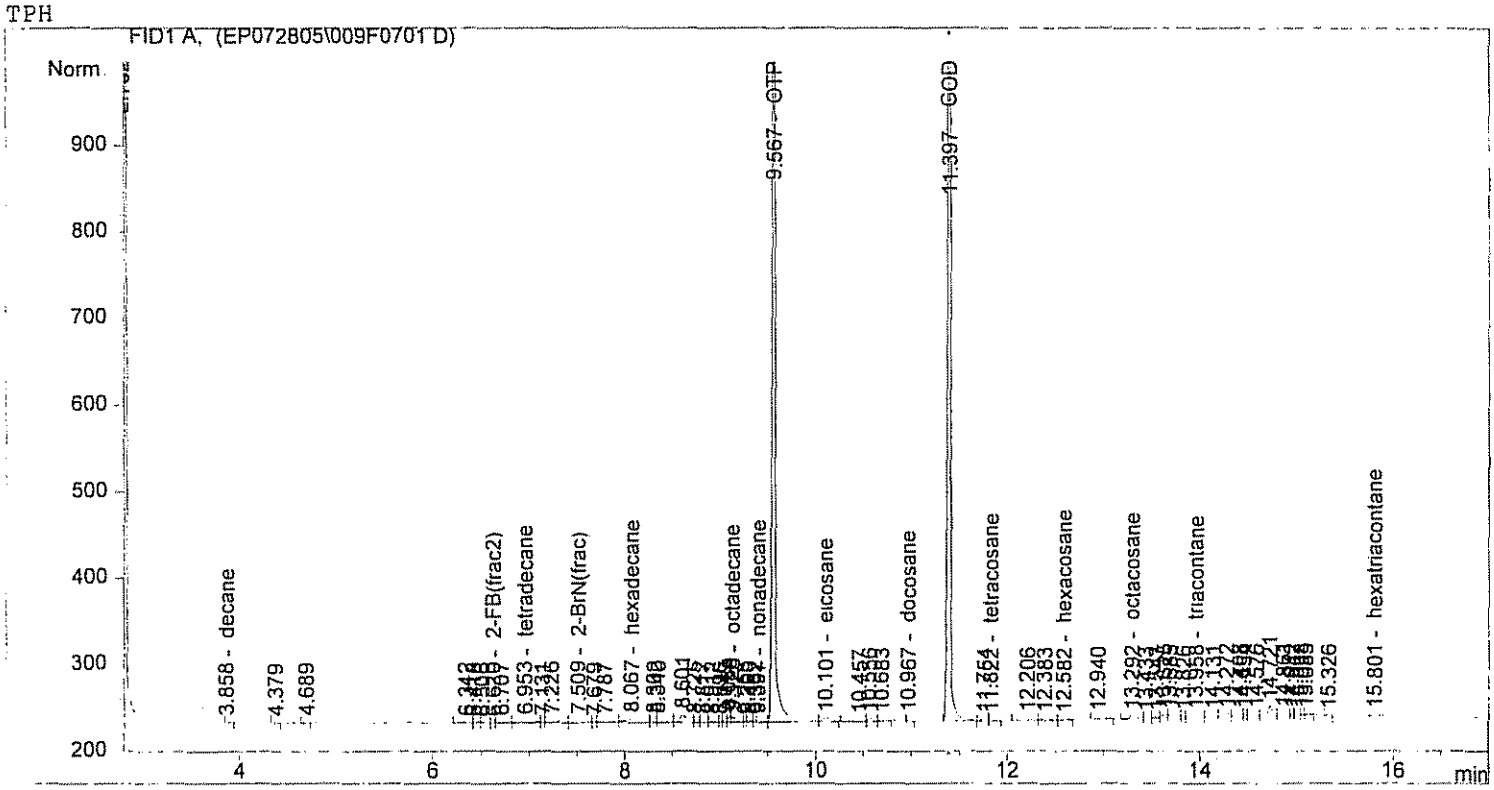
External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\EP072805\009F0701.D		
perator	: DCS	Page Number	:
nstrument	: GC6	Vial Number	: Vial 9
ample Name	: G161-2081-1I x1 T	Injection Number	: 1
un Time Bar Code	: 145969	Sequence Line	: 7
cquired on	: 28 Jul 05 1:05:37 PM	Instrument Method	: PROEPH.M
eport Created on	: 29 Jul 2005 8:19:47 AM	Analysis Method	: EPHTK_F.M
ast Recalib on	: 27 Jul 2005 10:59:25 AM	Sample Amount	: 10 µl
ultiplier	: 1.0000	ISTD Amount	:

ig. 1 in C:\HPCHEM\1\DATA\EP072805\009F0701.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.072	0.00000	XX	0.00	1	0.00000	nonane
3.858	2.74973	VB	0.02	2	4.828e-6	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.620	3.42523	BV	0.03	4	6.014e-6	2-FB(frac2)
6.953	30.76285	VV	0.13	5	5.401e-5	tetradecane
7.509	29.06149	VV	0.10	6	5.102e-5	2-BrN(frac)
8.067	47.63264	VV	0.12	7	8.363e-5	hexadecane
9.126	22.39308	VV	0.05	8	3.932e-5	octadecane
9.397	9.31268	VV	0.06	9	1.635e-5	nonadecane
9.567	2622.96899	VV	0.02	10	0.00461	OTP
10.101	18.47119	VV	0.07	11	3.243e-5	eicosane
10.967	7.85403	VV	0.02	12	1.379e-5	docosane
11.397	2408.62012	VB	0.02	13	0.00423	COD
11.822	11.90904	VV	0.05	14	2.091e-5	tetracosane
12.582	5.69347	VV	0.04	15	9.996e-6	hexacosane
13.292	22.82704	VV	0.07	16	4.008e-5	octacosane
13.958	20.83152	VV	0.08	17	3.657e-5	triacontane
15.801	7.27612	VV	0.04	18	1.278e-5	hexatriacontane
0.495	2.41764	PP	6.64e	1	4.245e-6	* uncalibrated *
1.437	5.26936e7	VVS	0.69	2	92.51692	* uncalibrated *
1.552	2.37956e5	VVS	0.03	3	0.41779	* uncalibrated *
1.600	3.04252e5	VVS	0.04	4	0.53419	* uncalibrated *
1.660	2.85499e5	VVS	0.03	5	0.50127	* uncalibrated *
1.709	1.55049e5	VVS	0.02	6	0.27223	* uncalibrated *
1.759	2.89671e5	VVS	0.05	7	0.50859	* uncalibrated *
1.812	1.77543e5	VVS	0.02	8	0.31172	* uncalibrated *
1.869	2.22400e5	VVS	0.04	9	0.39048	* uncalibrated *
1.908	1.41591e5	VVS	0.02	10	0.24860	* uncalibrated *
1.959	2.66531e5	VVS	0.05	11	0.46796	* uncalibrated *
2.028	1.98068e5	VVS	0.03	12	0.34776	* uncalibrated *
2.082	1.84950e5	VVS	0.03	13	0.32473	* uncalibrated *
2.132	1.64732e5	VVS	0.02	14	0.28923	* uncalibrated *
2.172	1.85059e5	VVS	0.04	15	0.32492	* uncalibrated *
2.229	1.38170e5	VVS	0.02	16	0.24259	* uncalibrated *
2.270	1.65417e5	VVS	0.03	17	0.29043	* uncalibrated *
2.335	1.93991e5	VVS	0.04	18	0.34060	* uncalibrated *
2.404	1.59293e5	VVS	0.03	19	0.27968	* uncalibrated *
2.450	1.33960e5	VVS	0.03	20	0.23520	* uncalibrated *
2.486	1.57466e5	VVS	0.04	21	0.27647	* uncalibrated *
2.543	1.09397e5	VVS	0.02	22	0.19207	* uncalibrated *
2.587	1.18931e5	VVS	0.03	23	0.20881	* uncalibrated *
2.634	1.21427e5	VVS	0.03	24	0.21320	* uncalibrated *
2.676	6.28568e4	VVS	0.02	25	0.11036	* uncalibrated *

```
==========================================================================
Injection Date  : 7/28/2005 1:05:37 PM          Seq. Line :   7
Sample Name     : 145969 x1 T                    Location : Vial 9
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\072805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.072		0.0000	0.00000	0.00000	nonane
2	3.858	VB	0.0259	2.74973	4.828e-6	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.620	BV	0.0335	3.42523	6.014e-6	2-FB(frac2)
5	6.953	VV	0.1306	30.76285	5.401e-5	tetradecane
6	7.509	VV	0.1067	29.06149	5.102e-5	2-BrN(frac)
7	8.067	VV	0.1220	47.63264	8.363e-5	hexadecane
8	9.126	VV	0.0523	22.39308	3.932e-5	octadecane
9	9.397	VV	0.0652	9.31268	1.635e-5	nonadecane
10	9.567	VV	0.0251	2622.96899	0.00461	OTP
11	10.101	VV	0.0715	18.47119	3.243e-5	eicosane
12	10.967	VV	0.0264	7.85403	1.379e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.397	VB	0.0269	2408.62012	0.00423	COD
14	11.822	VV	0.0594	11.90904	2.091e-5	tetracosane
15	12.582	VV	0.0459	5.69347	9.996e-6	hexacosane
16	13.292	VV	0.0755	22.82704	4.008e-5	octacosane
17	13.958	VV	0.0808	20.83152	3.657e-5	triacontane
18	15.801	VV	0.0482	7.27612	1.278e-5	hexatriacontane

Totals : 5271.78921 9.256e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.495	PP	6.64e-3	2.41764	4.245e-6	?
2	1.437	VV S	0.6914	5.26936e7	92.51692	?
3	1.552	VV S	0.0305	2.37956e5	0.41779	?
4	1.600	VV S	0.0492	3.04252e5	0.53419	?
5	1.660	VV S	0.0336	2.85499e5	0.50127	?
6	1.709	VV S	0.0261	1.55049e5	0.27223	?
7	1.759	VV S	0.0554	2.89671e5	0.50859	?
8	1.812	VV S	0.0285	1.77543e5	0.31172	?
9	1.869	VV S	0.0428	2.22400e5	0.39048	?
10	1.908	VV S	0.0290	1.41591e5	0.24860	?
11	1.959	VV S	0.0579	2.66531e5	0.46796	?
12	2.028	VV S	0.0328	1.98068e5	0.34776	?
13	2.082	VV S	0.0377	1.84950e5	0.32473	?
14	2.132	VV S	0.0278	1.64732e5	0.28923	?
15	2.172	VV S	0.0416	1.85059e5	0.32492	?
16	2.229	VV S	0.0287	1.38170e5	0.24259	?
17	2.270	VV S	0.0382	1.65417e5	0.29043	?
18	2.335	VV S	0.0433	1.93991e5	0.34060	?
19	2.404	VV S	0.0392	1.59293e5	0.27968	?
20	2.450	VV S	0.0336	1.33960e5	0.23520	?
21	2.486	VV S	0.0442	1.57466e5	0.27647	?
22	2.543	VV S	0.0284	1.09397e5	0.19207	?
23	2.587	VV S	0.0321	1.18931e5	0.20881	?
24	2.634	VV S	0.0370	1.21427e5	0.21320	?
25	2.676	VV S	0.0273	6.28568e4	0.11036	?
26	2.715	VV S	0.0364	4.30184e4	0.07553	?
27	2.751	VV S	0.0199	1.92792e4	0.03385	?
28	2.782	VBAS	0.0226	1.96940e4	0.03458	?
29	4.379	VV	0.0357	2.85461	5.012e-6	?
30	4.689	PV	0.0337	4.73547	8.314e-6	?
31	6.342	BV	0.1026	17.09750	3.002e-5	?
32	6.418	VV	0.0514	6.43587	1.130e-5	?
33	6.506	VB	0.0643	7.21928	1.268e-5	?
34	6.707	VV	0.1069	14.29850	2.510e-5	?
35	7.131	VV	0.0305	3.52697	6.192e-6	?
36	7.226	VV	0.1209	24.62159	4.323e-5	?
37	7.679	VV	0.0349	3.45529	6.067e-6	?
38	7.787	VV	0.1408	25.06343	4.401e-5	?
39	8.302	VV	0.0497	11.81781	2.075e-5	?
40	8.340	VB	0.0952	25.61988	4.498e-5	?
41	8.601	BV	0.0719	47.00298	8.253e-5	?
42	8.725	VV	0.0454	8.72522	1.532e-5	?
43	8.817	VV	0.0559	11.65527	2.046e-5	?
44	8.912	VV	0.0711	14.11474	2.478e-5	?
45	8.996	VV	0.0295	3.66347	6.432e-6	?
46	9.049	VV	0.0344	5.39170	9.466e-6	?
47	9.089	VV	0.0276	11.41839	2.005e-5	?
48	9.255	VV	0.0245	3.39697	5.964e-6	?
49	9.290	VV	0.0468	7.42850	1.304e-5	?
50	9.362	VV	0.0244	3.17769	5.579e-6	?
51	10.457	VV	0.1008	19.10184	3.354e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	10.556	VV	0.0460	10.53288	1.849e-5	?
53	10.683	VV	0.0557	13.21169	2.320e-5	?
54	11.754	BV	0.0519	11.77186	2.067e-5	?
55	12.206	BV	0.0658	16.50703	2.898e-5	?
56	12.383	VP	0.0503	7.98501	1.402e-5	?
57	12.940	VV	0.0647	12.37774	2.173e-5	?
58	13.433	VV	0.0481	6.13638	1.077e-5	?
59	13.543	VV	0.0437	6.79420	1.193e-5	?
60	13.625	VV	0.0477	14.60802	2.565e-5	?
61	13.685	VV	0.0720	17.34342	3.045e-5	?
62	13.826	VV	0.0353	3.87030	6.795e-6	?
63	14.131	VV	0.0712	15.83316	2.780e-5	?
64	14.272	VV	0.0603	15.48893	2.719e-5	?
65	14.408	VV	0.0639	15.38762	2.702e-5	?
66	14.454	VV	0.0288	4.92674	8.650e-6	?
67	14.576	VV	0.0757	16.42449	2.884e-5	?
68	14.721	VV	0.0506	46.15349	8.103e-5	?
69	14.861	VV	0.0716	21.81858	3.831e-5	?
70	14.942	VV	0.0295	4.47770	7.862e-6	?
71	14.987	VV	0.0414	6.77040	1.189e-5	?
72	15.038	VV	0.0291	3.48379	6.117e-6	?
73	15.085	VB	0.0404	4.34961	7.637e-6	?
74	15.326	BP	0.0334	3.90968	6.864e-6	?

Uncalib. totals : 5.69504e7 99.9907

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

External Standard Report

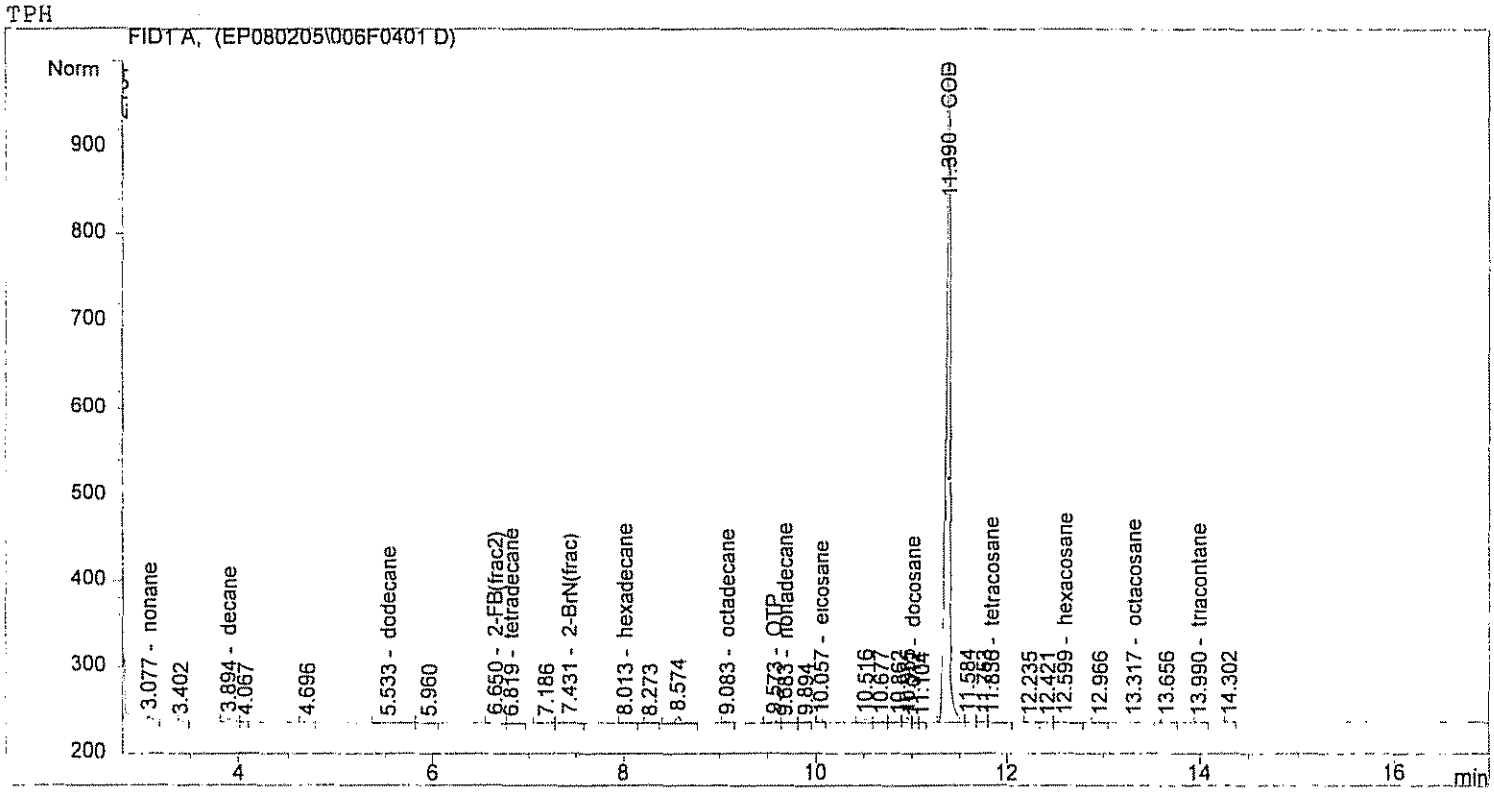
Data File Name : C:\HPCHEM\1\DATA\EP080205\006F0401.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2081-2I x1 K
Run Time Bar Code: 145970
Acquired on : 2 Aug 05 12:10:43 PM
Report Created on: 3 Aug 2005 8:24:48 AM
Last Recalib on : 27 Jul 2005 10:59:25 AM
Multiplier : 1.0000

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 4
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\EP080205\006F0401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.077	5.53202	VP	0.01	1	6.858e-6	nonane
3.894	11.08797	VV	0.04	2	1.374e-5	decane
5.533	11.58187	VP	0.13	3	1.436e-5	dodecane
6.650	20.74670	VV	0.07	4	2.572e-5	2-FB(frac2)
6.819	10.82432	VV	0.07	5	1.342e-5	tetradecane
7.431	27.51485	VV	0.10	6	3.411e-5	2-BrN(frac)
8.013	8.54016	PB	0.04	7	1.059e-5	hexadecane
9.083	8.74997	VV	0.04	8	1.085e-5	octadecane
9.573	14.38244	VV	0.05	9	1.783e-5	OTP
9.683	3.68326	VB	0.04	10	4.566e-6	nonadecane
10.057	9.21896	VV	0.04	11	1.143e-5	eicosane
11.012	4.84224	VV	0.04	12	6.003e-6	docosane
11.390	2521.76636	BV	0.03	13	0.00313	COD
11.836	12.80999	VP	0.06	14	1.588e-5	tetracosane
12.599	12.11998	VB	0.06	15	1.502e-5	hexacosane
13.317	6.86207	VB	0.04	16	8.506e-6	octacosane
13.990	3.51657	VP	0.04	17	4.359e-6	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.588	11.55690	PV	0.01	1	1.433e-5	* uncalibrated *
0.718	1.43856e6	VVS	0.04	2	1.78325	* uncalibrated *
1.765	7.82563e7	VVS	0.69	3	97.00758	* uncalibrated *
1.867	8.34640e5	VVS	0.01	4	1.03463	* uncalibrated *
1.935	1.33110e4	VVS	0.03	5	0.01650	* uncalibrated *
1.984	1.62558e4	VVS	0.05	6	0.02015	* uncalibrated *
2.057	7867.81641	VVS	0.03	7	0.00975	* uncalibrated *
2.088	5563.27734	VVS	0.02	8	0.00690	* uncalibrated *
2.137	1.17376e4	VVS	0.04	9	0.01455	* uncalibrated *
2.186	8162.52637	VVS	0.03	10	0.01012	* uncalibrated *
2.221	6060.32324	VVS	0.02	11	0.00751	* uncalibrated *
2.267	7439.29102	VVS	0.03	12	0.00922	* uncalibrated *
2.318	7566.32910	VVS	0.04	13	0.00938	* uncalibrated *
2.351	6579.78564	VVS	0.03	14	0.00816	* uncalibrated *
2.401	8358.15234	VVS	0.04	15	0.01036	* uncalibrated *
2.447	6730.02100	VVS	0.03	16	0.00834	* uncalibrated *
2.508	8245.66699	VVS	0.04	17	0.01022	* uncalibrated *
2.552	6583.48730	VVS	0.03	18	0.00816	* uncalibrated *
2.590	3870.30420	VVS	0.02	19	0.00480	* uncalibrated *
2.612	2486.64868	VVS	0.01	20	0.00308	* uncalibrated *
2.652	5715.68359	VVS	0.04	21	0.00709	* uncalibrated *
2.702	2361.72217	VVS	0.03	22	0.00293	* uncalibrated *
2.738	2344.55884	VVS	0.03	23	0.00291	* uncalibrated *
2.784	658.58673	VBAS	0.01	24	0.00082	* uncalibrated *
3.402	1.87232	VP	0.02	25	2.321e-6	* uncalibrated *

```
==========================================================================
Injection Date  : 8/2/2005 12:10:43 PM          Seq. Line :   4
Sample Name     : 145970 x1 K                    Location : Vial 6
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.077	VP	0.0197	5.53202	6.858e-6	nonane
2	3.894	VV	0.0421	11.08797	1.374e-5	decane
3	5.533	VP	0.1311	11.58187	1.436e-5	dodecane
4	6.650	VV	0.0738	20.74670	2.572e-5	2-FB(frac2)
5	6.819	VV	0.0773	10.82432	1.342e-5	tetradecane
6	7.431	VV	0.1045	27.51485	3.411e-5	2-BrN(frac)
7	8.013	PB	0.0483	8.54016	1.059e-5	hexadecane
8	9.083	VV	0.0435	8.74997	1.085e-5	octadecane
9	9.573	VV	0.0517	14.38244	1.783e-5	OTP
10	9.683	VB	0.0483	3.68326	4.566e-6	nonadecane
11	10.057	VV	0.0425	9.21896	1.143e-5	eicosane
12	11.012	VV	0.0424	4.84224	6.003e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.390	BV	0.0371	2521.76636	0.00313	COD
14	11.836	VP	0.0674	12.80999	1.588e-5	tetracosane
15	12.599	VB	0.0680	12.11998	1.502e-5	hexacosane
16	13.317	VB	0.0478	6.86207	8.506e-6	octacosane
17	13.990	VP	0.0444	3.51657	4.359e-6	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 2693.77972 3.339e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.588	PV	0.0172	11.55690	1.433e-5	?
2	0.718	VV S	0.0480	1.43856e6	1.78325	?
3	1.765	VV S	0.6961	7.82563e7	97.00758	?
4	1.867	VV S	0.0176	8.34640e5	1.03463	?
5	1.935	VV S	0.0331	1.33110e4	0.01650	?
6	1.984	VV S	0.0500	1.62558e4	0.02015	?
7	2.057	VV S	0.0311	7867.81641	0.00975	?
8	2.088	VV S	0.0225	5563.27734	0.00690	?
9	2.137	VV S	0.0483	1.17376e4	0.01455	?
10	2.186	VV S	0.0339	8162.52637	0.01012	?
11	2.221	VV S	0.0270	6060.32324	0.00751	?
12	2.267	VV S	0.0349	7439.29102	0.00922	?
13	2.318	VV S	0.0420	7566.32910	0.00938	?
14	2.351	VV S	0.0352	6579.78564	0.00816	?
15	2.401	VV S	0.0430	8358.15234	0.01036	?
16	2.447	VV S	0.0329	6730.02100	0.00834	?
17	2.508	VV S	0.0452	8245.66699	0.01022	?
18	2.552	VV S	0.0371	6583.48730	0.00816	?
19	2.590	VV S	0.0223	3870.30420	0.00480	?
20	2.612	VV S	0.0191	2486.64868	0.00308	?
21	2.652	VV S	0.0489	5715.68359	0.00709	?
22	2.702	VV S	0.0339	2361.72217	0.00293	?
23	2.738	VV S	0.0363	2344.55884	0.00291	?
24	2.784	VBAS	0.0179	658.58673	0.00082	?
25	3.402	VP	0.0228	1.87232	2.321e-6	?
26	4.067	VV	0.0385	3.29857	4.089e-6	?
27	4.696	PV	0.0480	5.58377	6.922e-6	?
28	5.960	VP	0.0579	5.37969	6.669e-6	?
29	7.186	VV	0.0679	9.00387	1.116e-5	?
30	8.273	PV	0.0547	4.60960	5.714e-6	?
31	8.574	VV	0.0610	35.64951	4.419e-5	?
32	9.894	BV	0.0518	5.56447	6.898e-6	?
33	10.516	VV	0.0451	13.92385	1.726e-5	?
34	10.677	VV	0.0488	12.10130	1.500e-5	?
35	10.862	VV	0.0605	16.06555	1.992e-5	?
36	10.955	VV	0.0483	16.97649	2.104e-5	?
37	11.104	VV	0.0456	3.68849	4.572e-6	?
38	11.584	VV	0.0539	16.23410	2.012e-5	?
39	11.753	VV	0.0570	13.01368	1.613e-5	?
40	12.235	VP	0.0445	5.81151	7.204e-6	?
41	12.421	VV	0.0503	5.59713	6.938e-6	?
42	12.966	VP	0.0501	7.65358	9.487e-6	?
43	13.656	PB	0.0505	7.64434	9.476e-6	?
44	14.302	BV	0.0429	4.71035	5.839e-6	?

Uncalib. totals : 8.06676e7 99.9967

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

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*** End of Report ***

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External Standard Report

'ata File Name : C:\HPCHEM\1\DATA\EP080205\007F0501.D
'perator : DCS
nstrument : GC6
'ample Name : G161-2081-2I x1 R
'un Time Bar Code: 145970
'cquired on : 2 Aug 05 12:37:23 PM
'eport Created on: 3 Aug 2005 8:24:55 AM
.ast Recalib on : 14 Jul 2005 2:22:40 PM
'ultiplier : 1.0000

Page Number :
Vial Number : Vial 7
Injection Number : 1
Sequence Line : 5
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

'ig. 1 in C:\HPCHEM\1\DATA\EP080205\007F0501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.308	33.73165	PB	0.02	1	4.211e-5	naphthalene
6.098	20.16141	PV	0.03	2	2.517e-5	2-methylnaphthalene
6.620	1.13111e4	BB	0.04	3	0.01412	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.294	8029.58447	PB	0.05	5	0.01002	2-BrN(frac)
7.362	0.00000	XX	0.00	6	0.00000	acenaphthene
7.920	0.00000	XX	0.00	7	0.00000	fluorene
8.992	17.12117	BB	0.05	8	2.137e-5	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.554	2936.59546	BB	0.03	10	0.00367	OTP
10.479	20.36034	BB	0.08	11	2.542e-5	fluoranthene
10.676	20.94320	BB	0.04	12	2.615e-5	pyrene
11.380	87.21539	BB	0.03	13	0.00011	COD
11.746	10.28551	PB	0.05	14	1.284e-5	benzo(a)anthracene
12.176	50.00107	PV	0.08	15	6.242e-5	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.275	20.87387	PB	0.05	17	2.606e-5	benzo(k)fluoranthene
13.610	19.32581	BB	0.07	18	2.413e-5	benzo(a)pyrene
14.576	3.48234	BV	0.02	19	4.348e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.817	0.00000	XX	0.00	21	0.00000	benzo(g,h,i)perylene
0.588	3.70586	BV	0.01	1	4.627e-6	* uncalibrated *
1.837	7.90466e7	VVS	0.97	2	98.68544	* uncalibrated *
1.865	8.71390e5	VVS	0.01	3	1.08788	* uncalibrated *
1.925	2.30911e4	PVT	0.07	4	0.02883	* uncalibrated *
1.962	1.10691e4	VVS	0.03	5	0.01382	* uncalibrated *
2.025	1.18764e4	VVS	0.04	6	0.01483	* uncalibrated *
2.072	9552.85840	VVS	0.03	7	0.01193	* uncalibrated *
2.114	8931.79492	VVS	0.03	8	0.01115	* uncalibrated *
2.160	9480.04492	VVS	0.03	9	0.01184	* uncalibrated *
2.202	8636.94434	VVS	0.03	10	0.01078	* uncalibrated *
2.248	9316.94434	VVS	0.03	11	0.01163	* uncalibrated *
2.296	5653.32617	VVS	0.02	12	0.00706	* uncalibrated *
2.341	1.16485e4	VVS	0.06	13	0.01454	* uncalibrated *
2.407	7735.86230	VVS	0.04	14	0.00966	* uncalibrated *
2.447	6716.57422	VVS	0.03	15	0.00839	* uncalibrated *
2.491	5943.81152	VVS	0.02	16	0.00742	* uncalibrated *
2.532	6079.46240	VVS	0.03	17	0.00759	* uncalibrated *
2.579	6423.94678	VVS	0.03	18	0.00802	* uncalibrated *
2.618	4520.57520	VVS	0.02	19	0.00564	* uncalibrated *
2.650	3736.68555	VVS	0.03	20	0.00467	* uncalibrated *
2.688	4104.45557	VVS	0.04	21	0.00512	* uncalibrated *
2.736	3691.89697	VBS	0.06	22	0.00461	* uncalibrated *

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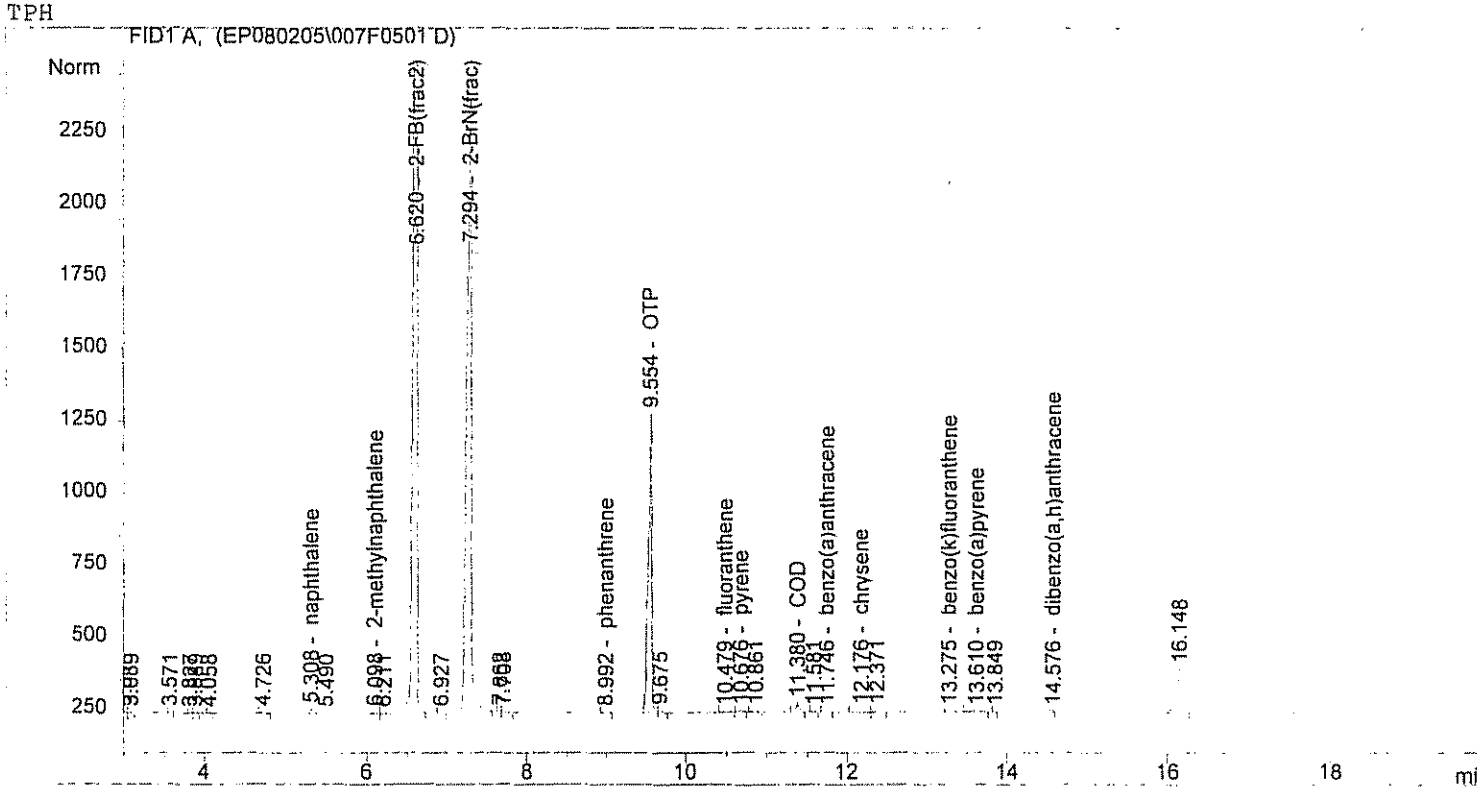
==========================================================================
Injection Date  : 8/2/2005 12:37:23 PM          Seq. Line :   5
Sample Name     : 145970 x1 R                    Location : Vial 7
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```

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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.308	PB	0.0293	33.73165	4.211e-5	naphthalene
2	6.098	PV	0.0398	20.16141	2.517e-5	2-methylnaphthalene
3	6.620	BB	0.0426	1.13111e4	0.01412	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.294	PB	0.0512	8029.58447	0.01002	2-BrN(frac)
6	7.362		0.0000	0.00000	0.00000	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	8.992	BB	0.0558	17.12117	2.137e-5	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.554	BB	0.0380	2936.59546	0.00367	OTP
11	10.479	BB	0.0849	20.36034	2.542e-5	fluoranthene
12	10.676	BB	0.0499	20.94320	2.615e-5	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.380	BB	0.0396	87.21539	0.00011	COD
14	11.746	PB	0.0527	10.28551	1.284e-5	benzo(a)anthracene
15	12.176	PV	0.0810	50.00107	6.242e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.275	PB	0.0564	20.87387	2.606e-5	benzo(k)fluoranthene
18	13.610	BB	0.0749	19.32581	2.413e-5	benzo(a)pyrene
19	14.576	BV	0.0274	3.48234	4.348e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.25808e4 2.819e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.588	BV	0.0103	3.70586	4.627e-6	?
2	1.837	VV S	0.9786	7.90466e7	98.68544	?
3	1.865	VV S	0.0187	8.71390e5	1.08788	?
4	1.925	PV T	0.0755	2.30911e4	0.02883	?
5	1.962	VV S	0.0387	1.10691e4	0.01382	?
6	2.025	VV S	0.0424	1.18764e4	0.01483	?
7	2.072	VV S	0.0329	9552.85840	0.01193	?
8	2.114	VV S	0.0336	8931.79492	0.01115	?
9	2.160	VV S	0.0371	9480.04492	0.01184	?
10	2.202	VV S	0.0366	8636.94434	0.01078	?
11	2.248	VV S	0.0346	9316.94434	0.01163	?
12	2.296	VV S	0.0249	5653.32617	0.00706	?
13	2.341	VV S	0.0654	1.16485e4	0.01454	?
14	2.407	VV S	0.0434	7735.86230	0.00966	?
15	2.447	VV S	0.0375	6716.57422	0.00839	?
16	2.491	VV S	0.0290	5943.81152	0.00742	?
17	2.532	VV S	0.0304	6079.46240	0.00759	?
18	2.579	VV S	0.0371	6423.94678	0.00802	?
19	2.618	VV S	0.0268	4520.57520	0.00564	?
20	2.650	VV S	0.0300	3736.68555	0.00467	?
21	2.688	VV S	0.0471	4104.45557	0.00512	?
22	2.736	VB S	0.0605	3691.89697	0.00461	?
23	3.016	BB	0.0199	3.05918	3.819e-6	?
24	3.089	BB	0.0257	2.59007	3.234e-6	?
25	3.571	PB	0.0300	4.20734	5.253e-6	?
26	3.827	PP	0.0218	2.58378	3.226e-6	?
27	3.889	VB	0.0317	5.32217	6.644e-6	?
28	4.058	PP	0.0233	2.21941	2.771e-6	?
29	4.726	BB	0.0416	19.65472	2.454e-5	?
30	5.490	PB	0.0257	2.84076	3.547e-6	?
31	6.211	VP	0.0451	13.42574	1.676e-5	?
32	6.927	PP	0.0400	13.91807	1.738e-5	?
33	7.662	PV	0.0269	3.81420	4.762e-6	?
34	7.708	VB	0.0477	11.41505	1.425e-5	?
35	9.675	BB	0.0486	26.40608	3.297e-5	?
36	10.861	PP	0.0522	13.61819	1.700e-5	?
37	11.581	BB	0.0325	7.01965	8.764e-6	?
38	12.371	VP	0.0445	25.03477	3.125e-5	?
39	13.849	BV	0.0266	3.81258	4.760e-6	?
40	16.148	BB	0.0581	610.42822	0.00076	?

Uncalib. totals : 8.00770e7 99.9718

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

External Standard Report

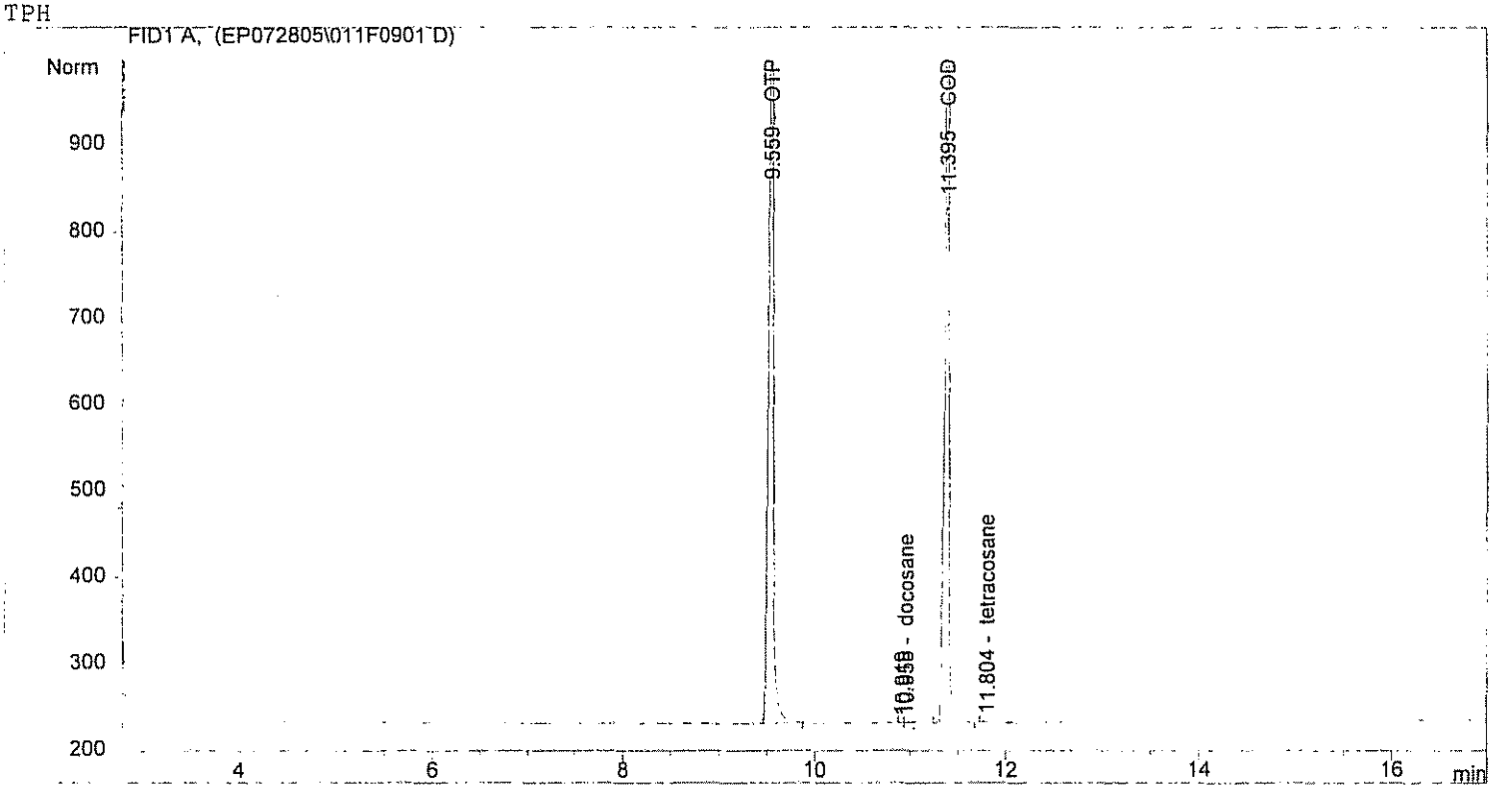
Data File Name	: C:\HPCHEM\1\DATA\EP072805\011F0901.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 11
Sample Name	: G161-2081-3K x1 T	Injection Number	: 1
Run Time Bar Code	: 145971	Sequence Line	: 9
Acquired on	: 28 Jul 05 1:59:33 PM	Instrument Method	: PROEPH.M
Report Created on	: 29 Jul 2005 8:19:52 AM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 27 Jul 2005 10:59:25 AM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP072805\011F0901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.072	0.00000	XX	0.00	1	0.00000	nonane
3.872	0.00000	XX	0.00	2	0.00000	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.898	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.559	3368.14185	PB	0.03	9	0.00422	OTP
9.581	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
10.955	2.59944	VP	0.02	12	3.259e-6	docosane
11.395	2967.31445	PB	0.03	13	0.00372	COD
11.804	21.15259	BP	0.10	14	2.652e-5	tetracosane
12.658	0.00000	XX	0.00	15	0.00000	hexacosane
13.284	0.00000	XX	0.00	16	0.00000	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.544	100.57638	PV	0.02	1	0.00013	* uncalibrated *
0.589	148.82414	VV	0.01	2	0.00019	* uncalibrated *
1.784	7.87236e7	VVS	0.96	3	98.69941	* uncalibrated *
1.842	8.70529e5	VPS	0.01	4	1.09142	* uncalibrated *
1.917	3.22542e4	VVS	0.08	5	0.04044	* uncalibrated *
1.968	1.35695e4	VVS	0.03	6	0.01701	* uncalibrated *
2.023	1.35229e4	VVS	0.05	7	0.01695	* uncalibrated *
2.080	1.11903e4	VVS	0.03	8	0.01403	* uncalibrated *
2.141	1.06238e4	VVS	0.04	9	0.01332	* uncalibrated *
2.175	1.06147e4	VVS	0.04	10	0.01331	* uncalibrated *
2.247	9884.27344	VVS	0.04	11	0.01239	* uncalibrated *
2.285	8408.15332	VVS	0.03	12	0.01054	* uncalibrated *
2.358	1.01036e4	VVS	0.04	13	0.01267	* uncalibrated *
2.402	6371.25342	VVS	0.02	14	0.00799	* uncalibrated *
2.457	7295.05420	VVS	0.03	15	0.00915	* uncalibrated *
2.506	1.04994e4	VVS	0.06	16	0.01316	* uncalibrated *
2.579	5730.56299	VVS	0.03	17	0.00718	* uncalibrated *
2.641	5875.78320	VVS	0.04	18	0.00737	* uncalibrated *
2.674	1849.84607	VVS	0.02	19	0.00232	* uncalibrated *
2.716	1497.37451	VVS	0.02	20	0.00188	* uncalibrated *
2.756	935.83508	VBAS	0.02	21	0.00117	* uncalibrated *
10.919	1.95551	VV	0.02	22	2.452e-6	* uncalibrated *

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

```
==========================================================================
Injection Date  : 7/28/2005 1:59:33 PM          Seq. Line :   9
Sample Name     : 145971 x1 T                    Location : Vial 11
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\072805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|--------------------
   1   3.072         0.0000    0.00000  0.00000 nonane
   2   3.872         0.0000    0.00000  0.00000 decane
   3   5.541         0.0000    0.00000  0.00000 dodecane
   4   6.610         0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.898         0.0000    0.00000  0.00000 tetradecane
   6   7.485         0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.095         0.0000    0.00000  0.00000 hexadecane
   8   9.172         0.0000    0.00000  0.00000 octadecane
   9   9.559 PB      0.0351 3368.14185  0.00422 OTP
  10   9.581         0.0000    0.00000  0.00000 nonadecane
  11  10.154         0.0000    0.00000  0.00000 eicosane
  12  10.955 VP      0.0291    2.59944 3.259e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.395	PB	0.0364	2967.31445	0.00372	COD
14	11.804	BP	0.1068	21.15259	2.652e-5	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6359.20832 7.973e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.544	PV	0.0211	100.57638	0.00013	?
2	0.589	VV	0.0101	148.82414	0.00019	?
3	1.784	VV S	0.9693	7.87236e7	98.69941	?
4	1.842	VP S	0.0190	8.70529e5	1.09142	?
5	1.917	VV S	0.0889	3.22542e4	0.04044	?
6	1.968	VV S	0.0379	1.35695e4	0.01701	?
7	2.023	VV S	0.0521	1.35229e4	0.01695	?
8	2.080	VV S	0.0373	1.11903e4	0.01403	?
9	2.141	VV S	0.0420	1.06238e4	0.01332	?
10	2.175	VV S	0.0458	1.06147e4	0.01331	?
11	2.247	VV S	0.0418	9884.27344	0.01239	?
12	2.285	VV S	0.0356	8408.15332	0.01054	?
13	2.358	VV S	0.0485	1.01036e4	0.01267	?
14	2.402	VV S	0.0265	6371.25342	0.00799	?
15	2.457	VV S	0.0335	7295.05420	0.00915	?
16	2.506	VV S	0.0619	1.04994e4	0.01316	?
17	2.579	VV S	0.0320	5730.56299	0.00718	?
18	2.641	VV S	0.0411	5875.78320	0.00737	?
19	2.674	VV S	0.0269	1849.84607	0.00232	?
20	2.716	VV S	0.0263	1497.37451	0.00188	?
21	2.756	VBAS	0.0228	935.83508	0.00117	?
22	10.919	VV	0.0274	1.95551	2.452e-6	?

Uncalib. totals : 7.97546e7 99.9920

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

EPH Calibration Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/05/05

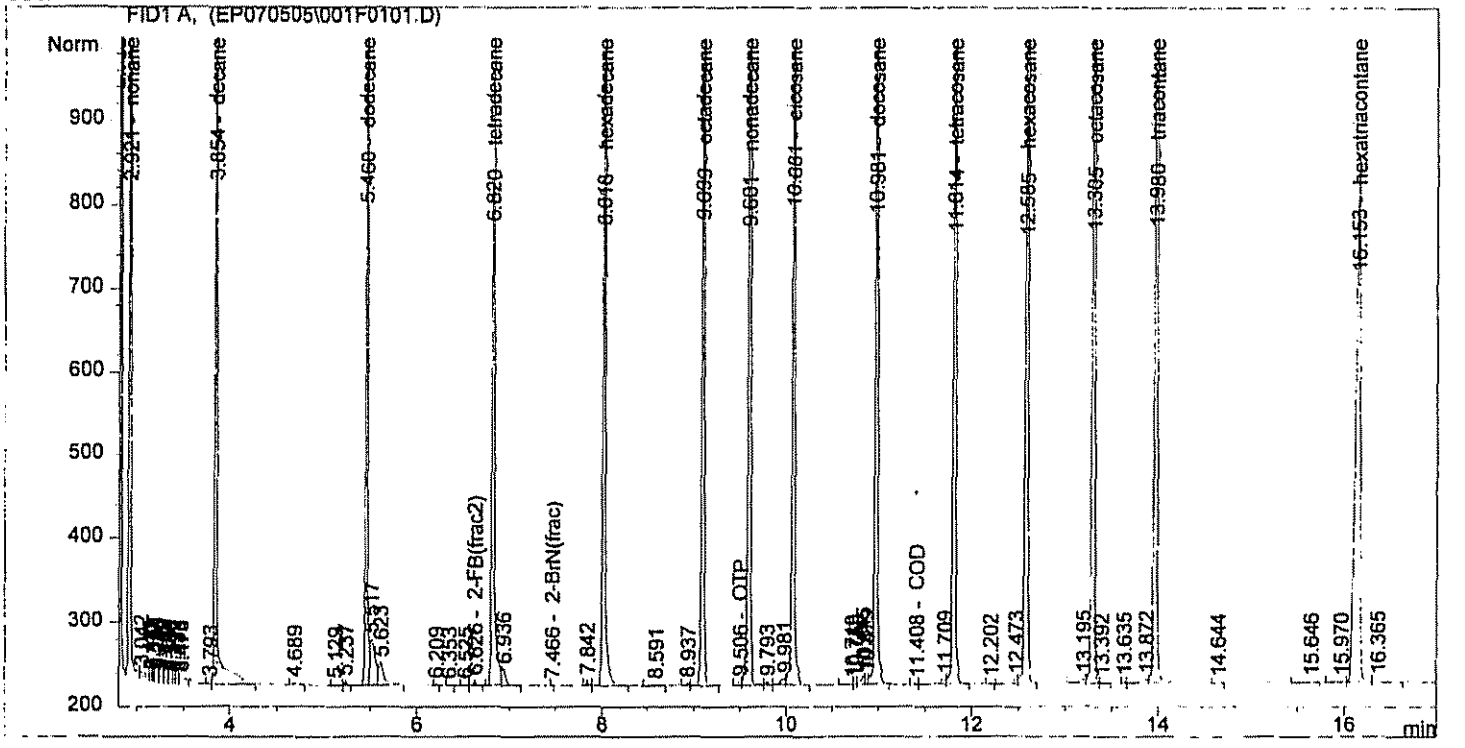
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	60	7.5
C_{19}-C_{36} Aliphatics	80	5.0
C_{11}-C_{22} Aromatics	340	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 7/5/2005 5:16:20 PM          Seq. Line :   1
Sample Name     : K 40 ical                     Location : Vial 1
Acq. Operator   : DCS                               Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:01 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.921	VV	0.0197	1464.65564	0.00317	nonane
2	3.854	VB	0.0222	1790.48792	0.00388	decane
3	5.460	BV	0.0199	1430.95947	0.00310	dodecane
4	6.626	VP	0.0206	7.48499	1.621e-5	2-FB(frac2)
5	6.820	PV	0.0236	1657.45227	0.00359	tetradecane
6	7.466	VV	0.0199	2.18315	4.729e-6	2-BrN(frac)
7	8.018	VB	0.0238	1709.42993	0.00370	hexadecane
8	9.099	VB	0.0229	1746.29138	0.00378	octadecane
9	9.506	VV	0.0437	12.64255	2.739e-5	OTP
10	9.601	VV	0.0239	1754.91345	0.00380	nonadecane
11	10.081	VB	0.0244	1773.12976	0.00384	eicosane
12	10.981	VB	0.0259	1833.64990	0.00397	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.408	VV	0.0237	2.83018	6.131e-6	COD
14	11.814	VB	0.0248	1945.84497	0.00422	tetracosane
15	12.585	VB	0.0272	2059.55396	0.00446	hexacosane
16	13.305	VV	0.0265	2119.26245	0.00459	octacosane
17	13.980	VB	0.0281	2144.35718	0.00465	triacontane
18	16.153	VV	0.0479	2181.43066	0.00473	hexatriacontane

Totals : 2.56366e4 5.554e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.503	VV	9.75e-3	3.87532	8.395e-6	?
2	0.544	VP	0.0316	5.63474	1.221e-5	?
3	0.586	VV	0.0117	5.04803	1.094e-5	?
4	1.338	VV S	0.5681	4.23728e7	91.79164	?
5	1.414	VV S	0.0360	2.38145e5	0.51589	?
6	1.457	VV S	0.0292	1.72238e5	0.37312	?
7	1.504	VV S	0.0458	1.76019e5	0.38131	?
8	1.546	VV S	0.0287	1.69392e5	0.36695	?
9	1.601	VV S	0.0366	1.57039e5	0.34019	?
10	1.641	VV S	0.0241	1.22659e5	0.26571	?
11	1.695	VV S	0.0763	2.72603e5	0.59054	?
12	1.755	VV S	0.0195	7.76362e4	0.16818	?
13	1.793	VV S	0.0376	1.34446e5	0.29125	?
14	1.831	VV S	0.0335	1.07141e5	0.23210	?
15	1.872	VV S	0.0644	2.10311e5	0.45559	?
16	1.942	VV S	0.0296	1.10279e5	0.23890	?
17	1.985	VV S	0.0306	1.08470e5	0.23498	?
18	2.015	VV S	0.0404	1.33654e5	0.28953	?
19	2.067	VV S	0.0307	1.20978e5	0.26207	?
20	2.119	VV S	0.0361	1.11782e5	0.24215	?
21	2.157	VV S	0.0242	9.02686e4	0.19555	?
22	2.186	VV S	0.0382	1.11930e5	0.24247	?
23	2.253	VV S	0.0686	1.92893e5	0.41786	?
24	2.320	VV S	0.0480	1.25387e5	0.27162	?
25	2.368	VV S	0.0355	1.10194e5	0.23871	?
26	2.409	VV S	0.0360	1.19187e5	0.25819	?
27	2.517	VV S	0.0835	2.24705e5	0.48678	?
28	2.558	VV S	0.0325	8.51239e4	0.18440	?
29	2.604	VV S	0.0342	9.25618e4	0.20052	?
30	2.629	VV S	0.0267	6.85026e4	0.14840	?
31	2.661	VV S	0.0394	8.39189e4	0.18179	?
32	2.743	VV S	0.0265	2.02835e4	0.04394	?
33	2.783	VBAS	0.0257	1.49929e4	0.03248	?
34	3.042	VV	0.0527	24.43899	5.294e-5	?
35	3.145	VV	0.0199	4.62410	1.002e-5	?
36	3.171	VV	0.0203	4.47648	9.697e-6	?
37	3.206	VV	0.0349	9.59216	2.078e-5	?
38	3.246	VV	0.0331	6.90560	1.496e-5	?
39	3.298	VV	0.0312	6.23980	1.352e-5	?
40	3.356	VV	0.0351	5.85852	1.269e-5	?
41	3.399	VV	0.0249	4.84861	1.050e-5	?
42	3.438	VV	0.0249	5.46262	1.183e-5	?
43	3.475	VV	0.0709	18.64049	4.038e-5	?
44	3.793	VV	0.0224	2.90003	6.282e-6	?
45	4.689	BV	0.0429	7.91076	1.714e-5	?
46	5.129	PV	0.0449	4.37063	9.468e-6	?
47	5.237	VP	0.0226	6.70182	1.452e-5	?
48	5.517	VV	0.0540	222.93123	0.00048	?
49	5.623	VB	0.0528	102.38389	0.00022	?
50	6.209	BB	0.0195	2.34533	5.081e-6	?
51	6.353	BB	0.0243	1.79134	3.881e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	6.525	BP	0.0244	2.18359	4.730e-6	?
53	6.936	VB	0.0440	60.72083	0.00013	?
54	7.842	BP	0.0204	8.61642	1.867e-5	?
55	8.591	PP	0.0361	2.88831	6.257e-6	?
56	8.937	VV	0.0227	3.62133	7.845e-6	?
57	9.793	VB	0.0266	6.90356	1.496e-5	?
58	9.981	BV	0.0466	25.66632	5.560e-5	?
59	10.719	VV	0.0389	5.30762	1.150e-5	?
60	10.759	VV	0.0273	4.78670	1.037e-5	?
61	10.845	VV	0.0405	29.55837	6.403e-5	?
62	10.879	VV	0.0199	11.17134	2.420e-5	?
63	11.709	VV	0.0740	34.67511	7.512e-5	?
64	12.202	BB	0.0251	2.59528	5.622e-6	?
65	12.473	BV	0.0615	24.98494	5.412e-5	?
66	13.195	BV	0.0527	19.44730	4.213e-5	?
67	13.392	VP	0.0318	4.46860	9.680e-6	?
68	13.635	BV	0.0236	5.09245	1.103e-5	?
69	13.872	VV	0.0509	16.51588	3.578e-5	?
70	14.644	VV	0.0434	5.10860	1.107e-5	?
71	15.646	BB	0.0652	6.63919	1.438e-5	?
72	15.970	PV	0.0810	10.48173	2.271e-5	?
73	16.365	VB	0.0774	18.27855	3.960e-5	?

Uncalib. totals : 4.61364e7 99.9445

Results obtained with enhanced integrator!
1 Warnings or Errors :

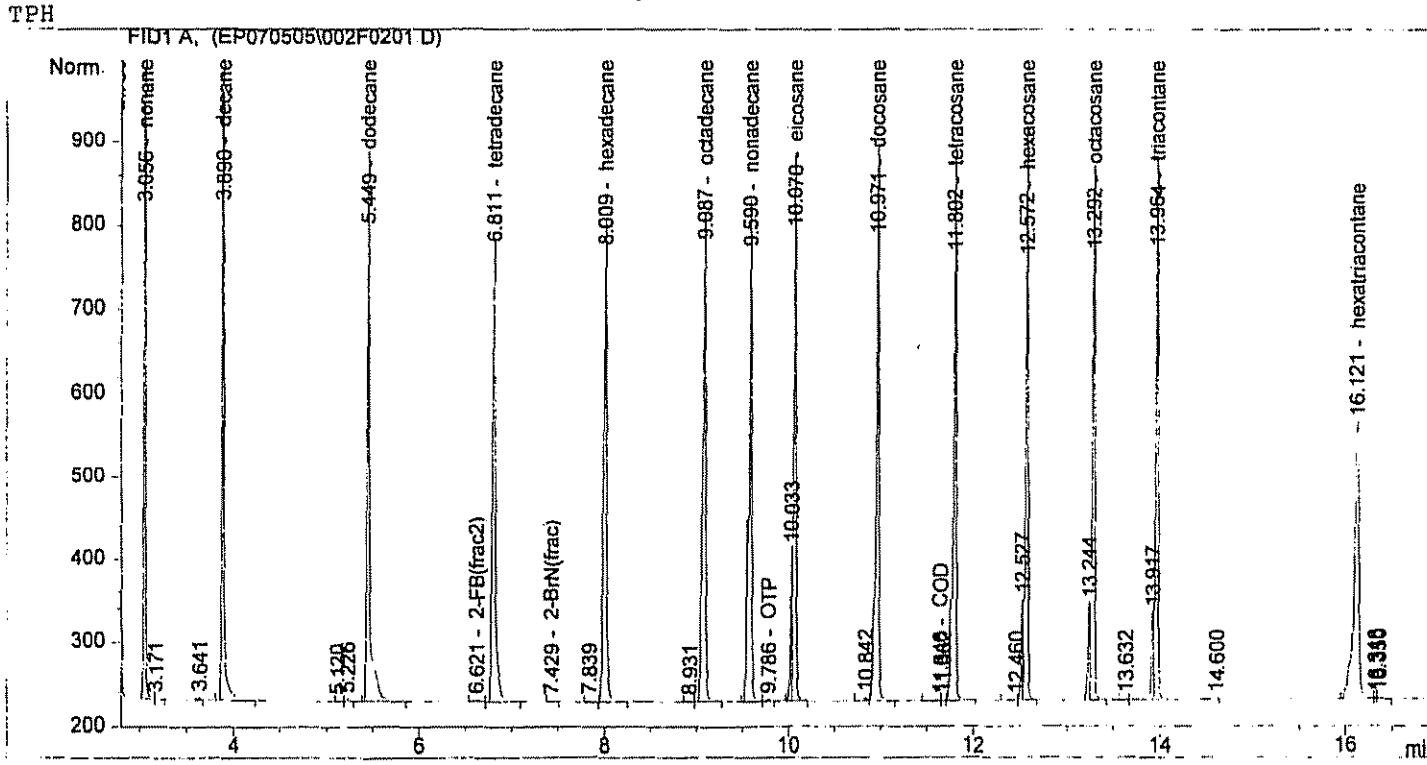
Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 5:43:12 PM          Seq. Line :   2
Sample Name     : K 20 ical                     Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:24 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|--------------------
   1   3.056 VV     0.0170 1266.11841  0.00168 nonane
   2   3.890 PB     0.0194 1279.19031  0.00170 decane
   3   5.449 VP     0.0291 1286.24854  0.00171 dodecane
   4   6.621 VP     0.0412    6.88729 9.156e-6 2-FB(frac2)
   5   6.811 VB     0.0320 1285.44092  0.00171 tetradecane
   6   7.429 PB     0.0302    2.59298 3.447e-6 2-BrN(frac)
   7   8.009 BB     0.0314 1288.99622  0.00171 hexadecane
   8   9.087 VB     0.0319 1301.94788  0.00173 octadecane
   9   9.590 VV     0.0316 1299.69238  0.00173 nonadecane
  10   9.786 VP     0.0426    6.33639 8.423e-6 OTP
  11  10.070 VB     0.0222 1026.11792  0.00136 eicosane
  12  10.971 VP     0.0289 1297.54663  0.00172 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.646	VV	0.0566	4.78266	6.358e-6	COD
14	11.802	VB	0.0280	1300.71521	0.00173	tetracosane
15	12.572	VB	0.0246	1141.47192	0.00152	hexacosane
16	13.292	VB	0.0264	1119.32971	0.00149	octacosane
17	13.964	VB	0.0262	1129.04834	0.00150	triacontane
18	16.121	BV	0.0543	1246.25208	0.00166	hexatriacontane

Totals : 1.72887e4 2.298e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.519	BV	0.0246	57.74522	7.676e-5	?
2	0.586	VV	0.0237	60.70682	8.070e-5	?
3	1.757	VV S	0.9269	7.50090e7	99.71239	?
4	1.871	PV T	0.0724	3.66966e4	0.04878	?
5	1.900	VV S	0.0222	7539.72803	0.01002	?
6	1.938	VV S	0.0413	1.36300e4	0.01812	?
7	1.987	VV S	0.0322	9887.83594	0.01314	?
8	2.029	VV S	0.0314	8891.41602	0.01182	?
9	2.056	VV S	0.0341	9171.54004	0.01219	?
10	2.101	VV S	0.0435	1.19341e4	0.01586	?
11	2.167	VV S	0.0639	1.51115e4	0.02009	?
12	2.231	VV S	0.0450	1.08432e4	0.01441	?
13	2.276	VV S	0.0244	6460.79590	0.00859	?
14	2.313	VV S	0.0343	7420.84668	0.00986	?
15	2.342	VV S	0.0223	5157.41846	0.00686	?
16	2.368	VV S	0.0193	4072.39526	0.00541	?
17	2.397	VV S	0.0270	5564.77979	0.00740	?
18	2.442	VV S	0.0397	7676.17383	0.01020	?
19	2.477	VV S	0.0298	6480.95703	0.00862	?
20	2.524	VV S	0.0451	7486.56201	0.00995	?
21	2.571	VV S	0.0323	5891.19531	0.00783	?
22	2.606	VV S	0.0380	6896.95996	0.00917	?
23	2.653	VV S	0.0300	4868.49316	0.00647	?
24	2.704	VV S	0.0347	3265.92163	0.00434	?
25	2.759	VBAS	0.0521	3142.03711	0.00418	?
26	3.171	VB	0.0459	6.17071	8.203e-6	?
27	3.641	VB	0.0169	3.83051	5.092e-6	?
28	5.120	PB	0.0367	3.31076	4.401e-6	?
29	5.226	BV	0.0268	6.33691	8.424e-6	?
30	7.839	VP	0.0332	6.13517	8.156e-6	?
31	8.931	BP	0.0343	2.61409	3.475e-6	?
32	10.033	VV	0.0224	274.32721	0.00036	?
33	10.842	VV	0.0436	12.46182	1.657e-5	?
34	11.682	VV	0.0328	3.37227	4.483e-6	?
35	12.460	BV	0.0513	4.44878	5.914e-6	?
36	12.527	VV	0.0215	160.92191	0.00021	?
37	13.244	VV	0.0245	182.79713	0.00024	?
38	13.632	BP	0.0284	2.38395	3.169e-6	?
39	13.917	VV	0.0256	173.30225	0.00023	?
40	14.600	PV	0.0405	3.38775	4.503e-6	?
41	16.318	VV	0.0219	2.13633	2.840e-6	?
42	16.350	VB	0.0609	7.15532	9.512e-6	?

Uncalib. totals : 7.52081e7 99.9770

Results obtained with enhanced integrator!
2 Warnings or Errors :

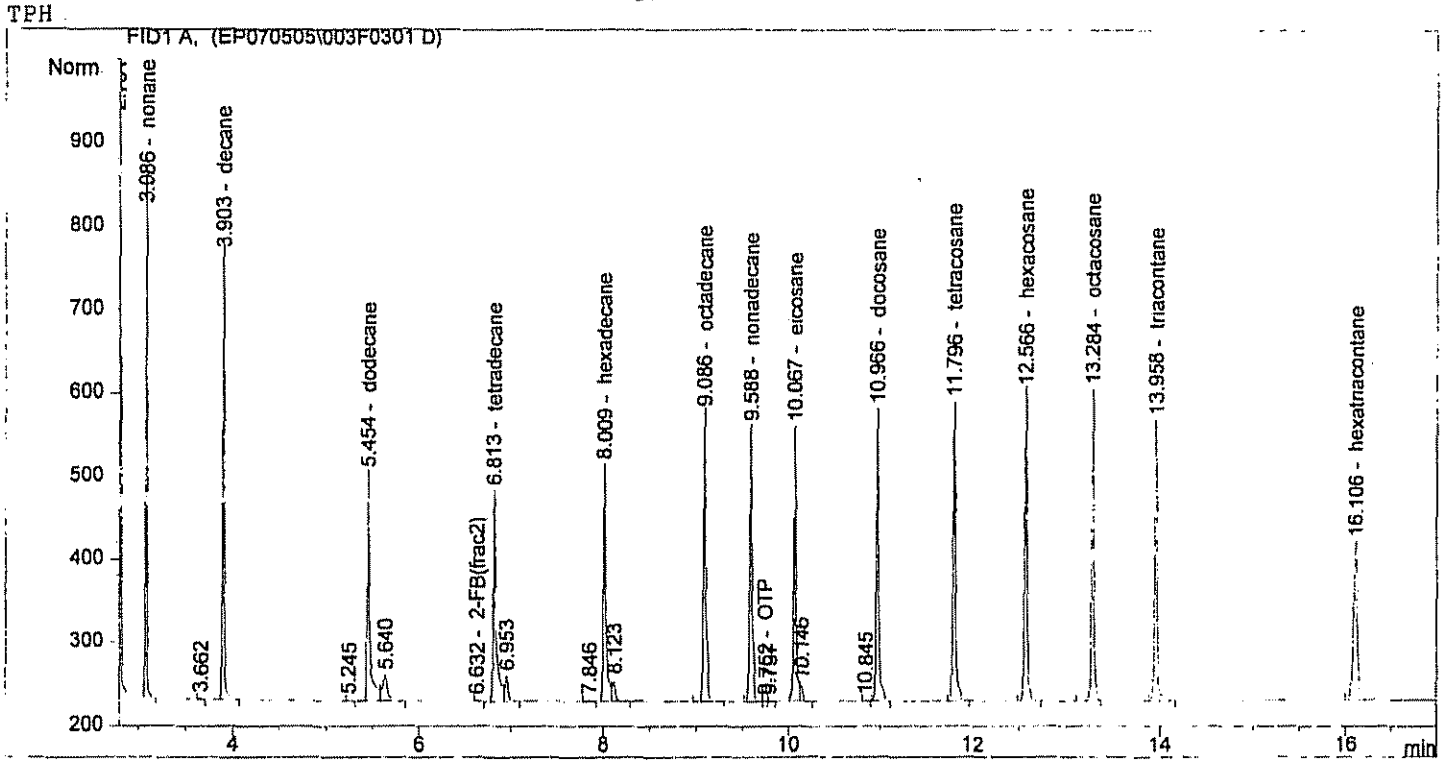
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==================================================================
Injection Date  : 7/5/2005 6:10:14 PM          Seq. Line :   3
Sample Name     : K 10 ical                     Location : Vial 3
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:03 AM by DCS
                  (modified after loading)
```

TPH




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.086	BV	0.0163	646.96594	0.00080	nonane
2	3.903	PB	0.0191	648.55542	0.00080	decane
3	5.454	BV	0.0259	515.10767	0.00063	dodecane
4	6.632	VP	0.0224	2.64904	3.257e-6	2-FB(frac2)
5	6.813	PV	0.0296	535.56970	0.00066	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.009	BV	0.0299	559.39600	0.00069	hexadecane
8	9.086	VB	0.0260	629.22015	0.00077	octadecane
9	9.588	VB	0.0279	622.48523	0.00077	nonadecane
10	9.752	BV	0.0413	3.49163	4.293e-6	OTP
11	10.067	BV	0.0267	587.18970	0.00072	eicosane
12	10.966	BB	0.0257	624.03387	0.00077	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	BB	0.0263	627.09064	0.00077	tetracosane
15	12.566	VB	0.0258	634.36932	0.00078	hexacosane
16	13.284	PB	0.0256	630.87390	0.00078	octacosane
17	13.958	VB	0.0298	632.02637	0.00078	triacontane
18	16.106	BV	0.0464	593.95795	0.00073	hexatriacontane

Totals : 8492.98253 1.044e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0244	7.71156	9.481e-6	?
2	0.562	VP	0.0113	1.42115	1.747e-6	?
3	0.591	VV	0.0154	23.15101	2.846e-5	?
4	1.820	VV S	0.9937	8.05263e7	99.00074	?
5	1.887	VV S	0.0265	4.48002e4	0.05508	?
6	1.928	VV S	0.0408	6.93738e4	0.08529	?
7	1.973	VV S	0.0381	5.52395e4	0.06791	?
8	2.024	VV S	0.0335	5.17152e4	0.06358	?
9	2.067	VV S	0.0365	5.62647e4	0.06917	?
10	2.118	VV S	0.0376	4.86328e4	0.05979	?
11	2.151	VV S	0.0215	2.98704e4	0.03672	?
12	2.177	VV S	0.0264	3.52801e4	0.04337	?
13	2.228	VV S	0.0458	5.56615e4	0.06843	?
14	2.287	VV S	0.0379	5.22191e4	0.06420	?
15	2.333	VV S	0.0391	4.50187e4	0.05535	?
16	2.381	VV S	0.0585	6.88890e4	0.08469	?
17	2.468	VV S	0.0502	4.48071e4	0.05509	?
18	2.536	VV S	0.0353	4.05112e4	0.04981	?
19	2.597	VV S	0.0481	4.29150e4	0.05276	?
20	2.637	VV S	0.0305	2.27497e4	0.02797	?
21	2.672	VV S	0.0404	1.89249e4	0.02327	?
22	2.735	VV S	0.0465	1.48342e4	0.01824	?
23	2.781	VBAS	0.0237	6243.33594	0.00768	?
24	3.662	VP	0.0195	2.25390	2.771e-6	?
25	5.245	BP	0.0223	2.77696	3.414e-6	?
26	5.640	VB	0.0517	112.54359	0.00014	?
27	6.953	VB	0.0402	87.22015	0.00011	?
28	7.846	VP	0.0237	3.71921	4.572e-6	?
29	8.123	VB	0.0356	65.04246	7.996e-5	?
30	9.797	VP	0.0246	2.36150	2.903e-6	?
31	10.146	VB	0.0269	35.94770	4.419e-5	?
32	10.845	BP	0.0222	2.60568	3.203e-6	?

Uncalib. totals : 8.13306e7 99.9896

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 6:37:08 PM          Seq. Line :   4
Sample Name     : K 5 ical                      Location : Vial 4
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:25 AM by DCS
                  (modified after loading)
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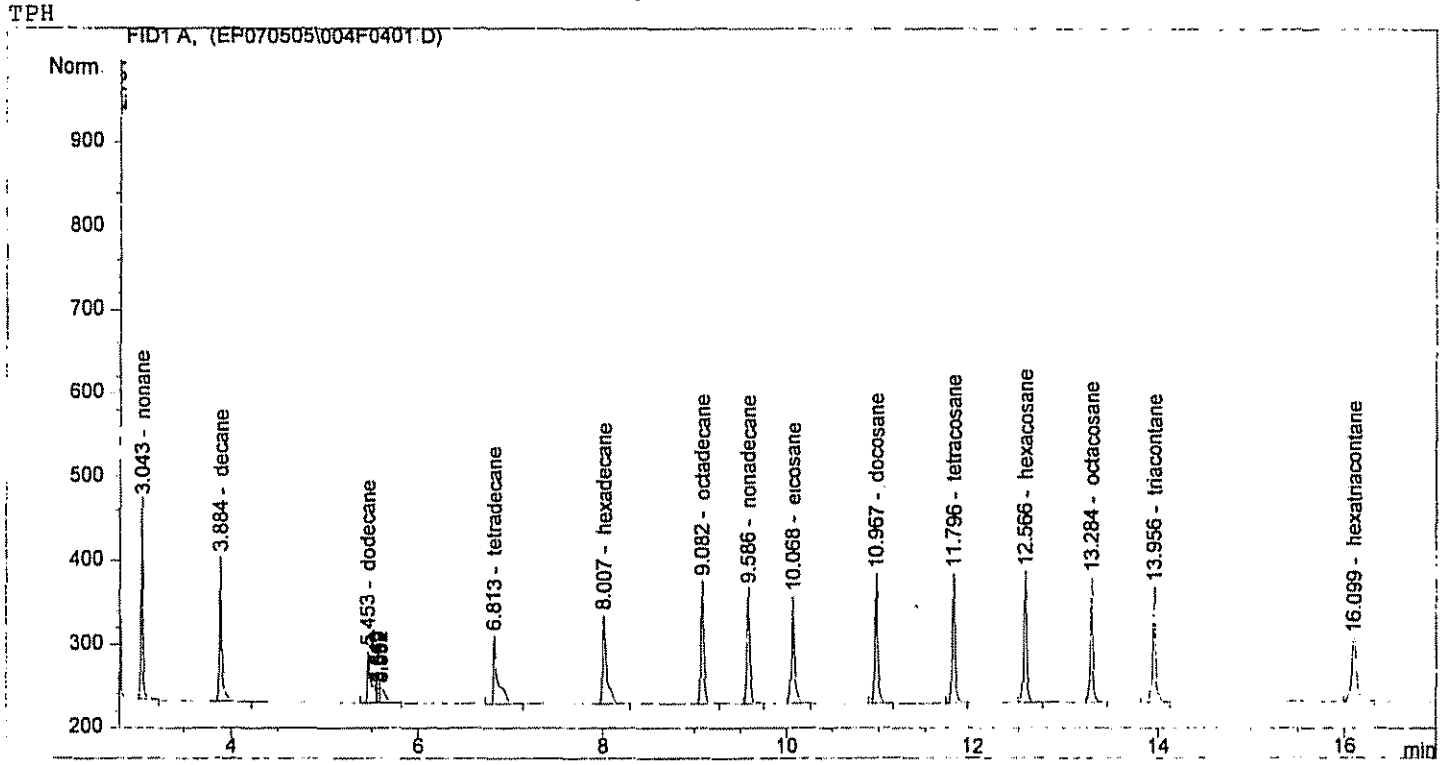
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:17:09 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.043	VB	0.0194	314.75198	0.00042	nonane
2	3.884	BB	0.0257	319.18195	0.00043	decane
3	5.453	VV	0.0395	178.06067	0.00024	dodecane
4	6.600		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.813	BB	0.0531	314.94501	0.00042	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.007	BB	0.0422	318.62674	0.00043	hexadecane
8	9.082	BB	0.0325	320.91269	0.00043	octadecane
9	9.500		0.0000	0.00000	0.00000	OTP
10	9.586	PB	0.0330	317.79922	0.00043	nonadecane
11	10.068	BB	0.0354	320.89191	0.00043	eicosane
12	10.967	VB	0.0302	321.13647	0.00043	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	VB	0.0301	321.12863	0.00043	tetracosane
15	12.566	VB	0.0312	325.14694	0.00044	hexacosane
16	13.284	PB	0.0321	321.30228	0.00043	octacosane
17	13.956	BB	0.0341	320.14969	0.00043	triacontane
18	16.099	BB	0.0561	291.00854	0.00039	hexatriacontane

Totals : 4305.04272 5.802e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.517	PV	0.0191	55.41060	7.468e-5	?
2	0.565	VV	0.0185	28.83533	3.886e-5	?
3	1.713	VV S	0.9089	7.32658e7	98.74944	?
4	1.764	VV S	0.0163	7.29550e5	0.98330	?
5	1.830	VV S	0.0435	1.87256e4	0.02524	?
6	1.878	VV S	0.0284	1.22771e4	0.01655	?
7	1.924	VV S	0.0404	1.41080e4	0.01902	?
8	1.974	VV S	0.0322	1.20777e4	0.01628	?
9	2.013	VV S	0.0466	1.33146e4	0.01795	?
10	2.087	VV S	0.0613	1.79908e4	0.02425	?
11	2.136	VV S	0.0245	7542.58447	0.01017	?
12	2.183	VV S	0.0671	1.54346e4	0.02080	?
13	2.267	VV S	0.0517	1.32190e4	0.01782	?
14	2.316	VV S	0.0334	9018.83691	0.01216	?
15	2.360	VV S	0.0333	8250.15332	0.01112	?
16	2.408	VV S	0.0349	8098.63721	0.01092	?
17	2.453	VV S	0.0346	7506.19678	0.01012	?
18	2.493	VV S	0.0245	5263.53906	0.00709	?
19	2.536	VV S	0.0618	1.09045e4	0.01470	?
20	2.600	VV S	0.0313	7502.49414	0.01011	?
21	2.645	VV S	0.0314	4715.55957	0.00636	?
22	2.684	VV S	0.0381	3582.78540	0.00483	?
23	2.733	VV S	0.0518	3241.38672	0.00437	?
24	2.781	VBAS	0.0167	992.51752	0.00134	?
25	5.543	VV	0.0178	22.70176	3.060e-5	?
26	5.569	VV	0.0207	27.28106	3.677e-5	?
27	5.592	VV	0.0602	83.46490	0.00011	?

Uncalib. totals : 7.41894e7 99.9942

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 7:03:13 PM          Seq. Line :   5
Sample Name     : K 1 ical                      Location : Vial 5
Acq. Operator   : DCS                               Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:54 AM by DCS
                  (modified after loading)
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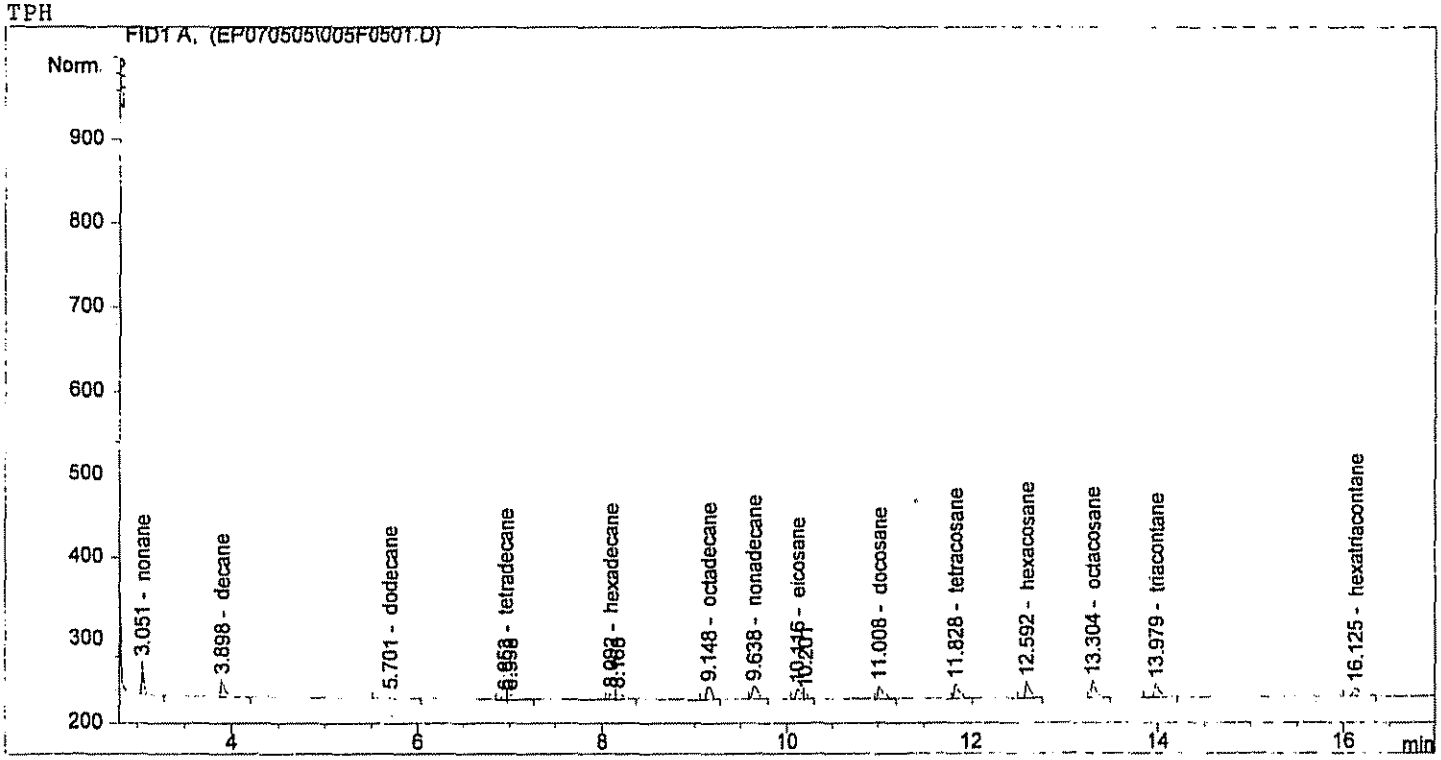
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|----------------------
   1   3.051 BP     0.0241   63.57945 8.542e-5 nonane
   2   3.898 BP     0.0457   69.52576 9.341e-5 decane
   3   5.701 PV     0.1867   58.11040 7.807e-5 dodecane
   4   6.600        0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.953 PV     0.0485   18.31736 2.461e-5 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.092 PV     0.0599   30.26579 4.066e-5 hexadecane
   8   9.148 PV     0.0596   62.13025 8.347e-5 octadecane
   9   9.500        0.0000    0.00000  0.00000 OTP
  10   9.638 BV     0.0588   62.69368 8.423e-5 nonadecane
  11  10.116 VV     0.0553   47.14569 6.334e-5 eicosane
  12  11.008 BB     0.0600   64.16410 8.621e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.828	PB	0.0525	64.03179	8.603e-5	tetracosane
15	12.592	VB	0.0482	65.47491	8.797e-5	hexacosane
16	13.304	BB	0.0443	64.38484	8.650e-5	octacosane
17	13.979	VB	0.0519	63.16903	8.487e-5	triacontane
18	16.125	BB	0.0709	49.00692	6.584e-5	hexatriacontane

Totals : 781.99997 1.051e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.521	PV	0.0155	64.20905	8.627e-5	?
2	0.585	VV	0.0276	69.71010	9.366e-5	?
3	0.712	VV S	0.0486	1.41617e6	1.90265	?
4	1.750	VV S	0.8897	7.21088e7	96.87967	?
5	1.777	VV S	0.0153	7.12026e5	0.95662	?
6	1.843	PV T	0.0740	3.29682e4	0.04429	?
7	1.885	VV S	0.0408	1.41671e4	0.01903	?
8	1.934	VV S	0.1521	3.89642e4	0.05235	?
9	2.115	VV S	0.0395	1.23934e4	0.01665	?
10	2.170	VV S	0.0314	8898.58203	0.01196	?
11	2.199	VV S	0.0246	5647.13525	0.00759	?
12	2.238	VV S	0.0367	9367.01953	0.01258	?
13	2.289	VV S	0.0425	9846.37305	0.01323	?
14	2.350	VV S	0.0463	9718.13770	0.01306	?
15	2.407	VV S	0.0417	1.00959e4	0.01356	?
16	2.447	VV S	0.0309	5712.63965	0.00768	?
17	2.486	VV S	0.0376	6904.68115	0.00928	?
18	2.527	VV S	0.0702	1.12526e4	0.01512	?
19	2.613	VV S	0.0618	1.00827e4	0.01355	?
20	2.685	VV S	0.0287	2776.07471	0.00373	?
21	2.723	VV S	0.0341	2505.02124	0.00337	?
22	2.775	VBAS	0.0323	2004.13550	0.00269	?
23	6.998	VB	0.0995	41.64529	5.595e-5	?
24	8.168	VB	0.0670	31.63436	4.250e-5	?
25	10.201	VB	0.0450	14.71698	1.977e-5	?

Uncalib. totals : 7.44306e7 99.9989

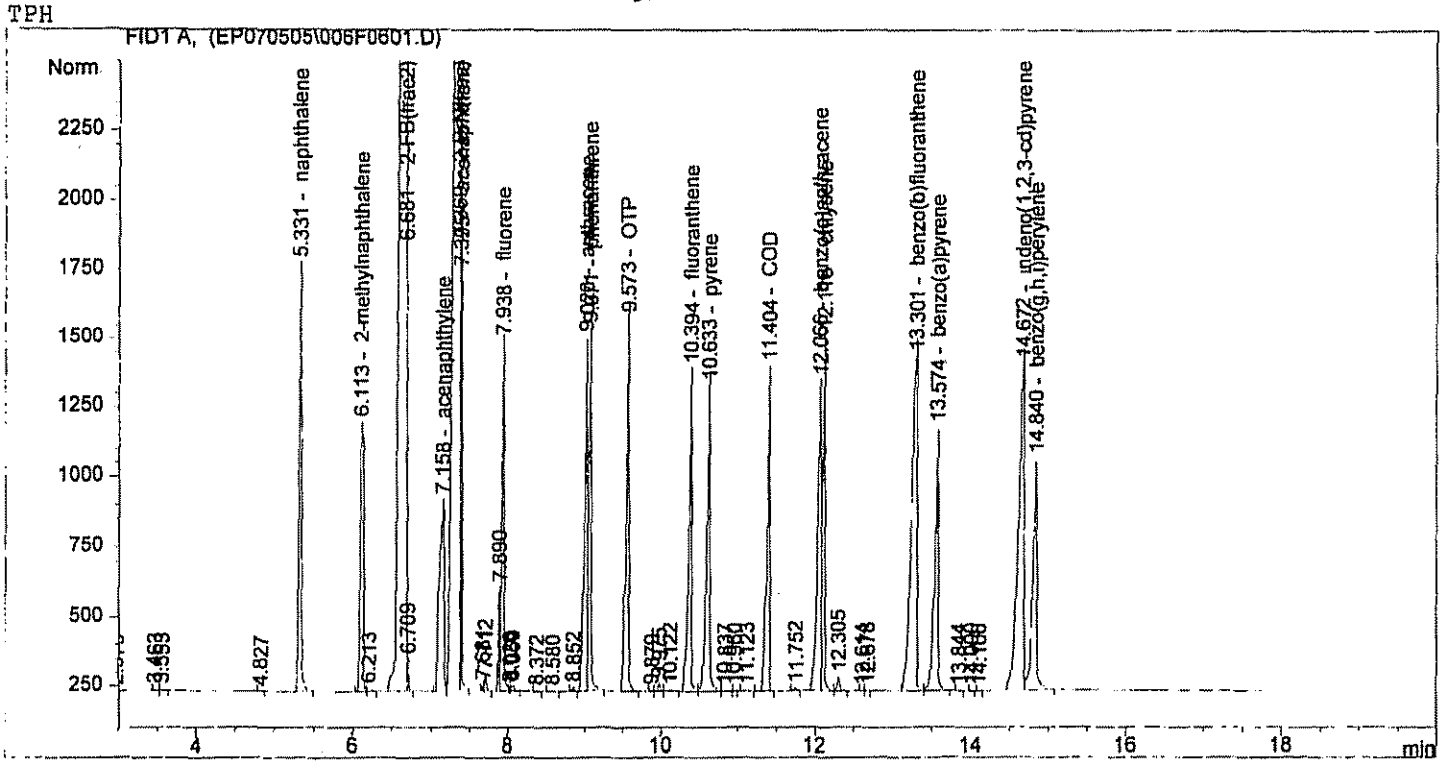
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date	: 7/5/2005 7:30:00 PM	Seq. Line :	6
Sample Name	: R 40 ical	Location :	Vial 6
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R F.M		
Last changed	: 7/6/2005 8:22:50 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:23:05 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.331	PB	0.0293	3077.10938	0.00430	naphthalene
2	6.113	PV	0.0442	2919.46924	0.00408	2-methylnaphthalene
3	6.681	BV	0.0555	3.39225e4	0.04735	2-FB(frac2)
4	7.158	PV	0.0555	2908.37695	0.00406	acenaphthylene
5	7.369	VV	0.0643	2.40343e4	0.03355	2-BrN(frac)
6	7.395	VB	0.0154	2159.06787	0.00301	acenaphthene
7	7.938	VV	0.0276	2337.66382	0.00326	fluorene
8	9.020	BV	0.0336	3231.57983	0.00451	anthracene
9	9.071	VB	0.0259	2557.39355	0.00357	phenanthrene
10	9.573	BB	0.0330	3222.72534	0.00450	OTP
11	10.394	BV	0.0357	2949.98340	0.00412	fluoranthene
12	10.633	VB	0.0382	3117.37500	0.00435	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.404	BB	0.0364	2832.86084	0.00395	COD
14	12.066	BV	0.0407	3498.13501	0.00488	benzo(a)anthracene
15	12.118	VV	0.0253	2452.23462	0.00342	chrysene
16	13.301	BV	0.0695	6132.74707	0.00856	benzo(b)fluoranthene
17	13.349		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.574	VB	0.0446	2957.06860	0.00413	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.672	BV	0.0646	5866.15234	0.00819	indeno(1,2,3-cd)pyrene
21	14.840	VB	0.0479	3050.68335	0.00426	benzo(g,h,i)perylene

Totals : 1.13227e5 0.1581

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.573	BP S	0.0122	7586.06055	0.01059	?
2	0.653	VV S	0.0451	6.58377e5	0.91907	?
3	1.724	VV S	0.8725	7.07102e7	98.70834	?
4	1.801	VV S	0.0388	1.48257e4	0.02070	?
5	1.864	VV S	0.0489	1.48582e4	0.02074	?
6	1.915	VV S	0.0265	8182.16309	0.01142	?
7	1.950	VV S	0.0247	6569.26807	0.00917	?
8	1.977	VV S	0.0245	5267.52979	0.00735	?
9	2.006	VV S	0.0348	8034.66211	0.01122	?
10	2.059	VV S	0.0422	9352.93457	0.01306	?
11	2.107	VV S	0.0426	9707.95801	0.01355	?
12	2.159	VV S	0.0387	8381.02832	0.01170	?
13	2.207	VV S	0.0522	1.08873e4	0.01520	?
14	2.299	VV S	0.0752	1.13269e4	0.01581	?
15	2.378	VV S	0.0389	6377.16797	0.00890	?
16	2.418	VV S	0.0326	5568.22656	0.00777	?
17	2.465	VV S	0.0356	5317.47607	0.00742	?
18	2.522	VV S	0.0424	6129.83447	0.00856	?
19	2.571	VV S	0.0428	5401.29785	0.00754	?
20	2.623	VV S	0.0339	4015.69678	0.00561	?
21	2.653	VV S	0.0291	2476.95386	0.00346	?
22	2.696	VV S	0.0250	1451.90259	0.00203	?
23	2.749	VB S	0.0222	693.39868	0.00097	?
24	2.975	PP	0.0232	2.07011	2.890e-6	?
25	3.463	BB	0.0306	14.04676	1.961e-5	?
26	3.553	BB	0.0470	14.24751	1.989e-5	?
27	4.827	PB	0.0340	3.28712	4.589e-6	?
28	6.213	VB	0.0516	42.02866	5.867e-5	?
29	6.709	VB	0.0158	117.18262	0.00016	?
30	7.681	PV	0.0203	26.89666	3.755e-5	?
31	7.712	VB	0.0227	87.80135	0.00012	?
32	7.890	BV	0.0230	547.56219	0.00076	?
33	8.026	VV	0.0199	16.41841	2.292e-5	?
34	8.059	VB	0.0434	57.65916	8.049e-5	?
35	8.372	BB	0.0308	7.16673	1.000e-5	?
36	8.580	PP	0.0394	9.82675	1.372e-5	?
37	8.852	BP	0.0316	31.30010	4.369e-5	?
38	9.879	BV	0.0241	6.10458	8.522e-6	?
39	9.975	VV	0.0312	56.82285	7.932e-5	?
40	10.122	VP	0.0467	15.90412	2.220e-5	?
41	10.837	BB	0.0691	19.98311	2.790e-5	?
42	10.960	BB	0.0229	4.29571	5.997e-6	?
43	11.123	BB	0.0481	14.04146	1.960e-5	?
44	11.752	BP	0.0313	20.70277	2.890e-5	?
45	12.305	VB	0.0365	131.56999	0.00018	?
46	12.614	PV	0.0273	3.90746	5.455e-6	?
47	12.678	VB	0.0265	8.30177	1.159e-5	?
48	13.844	PP	0.0277	3.11171	4.344e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	14.000	PP	0.0257	5.20895	7.271e-6	?
50	14.106	BP	0.0260	3.34295	4.667e-6	?

Uncalib. totals : 7.15223e7 99.8419

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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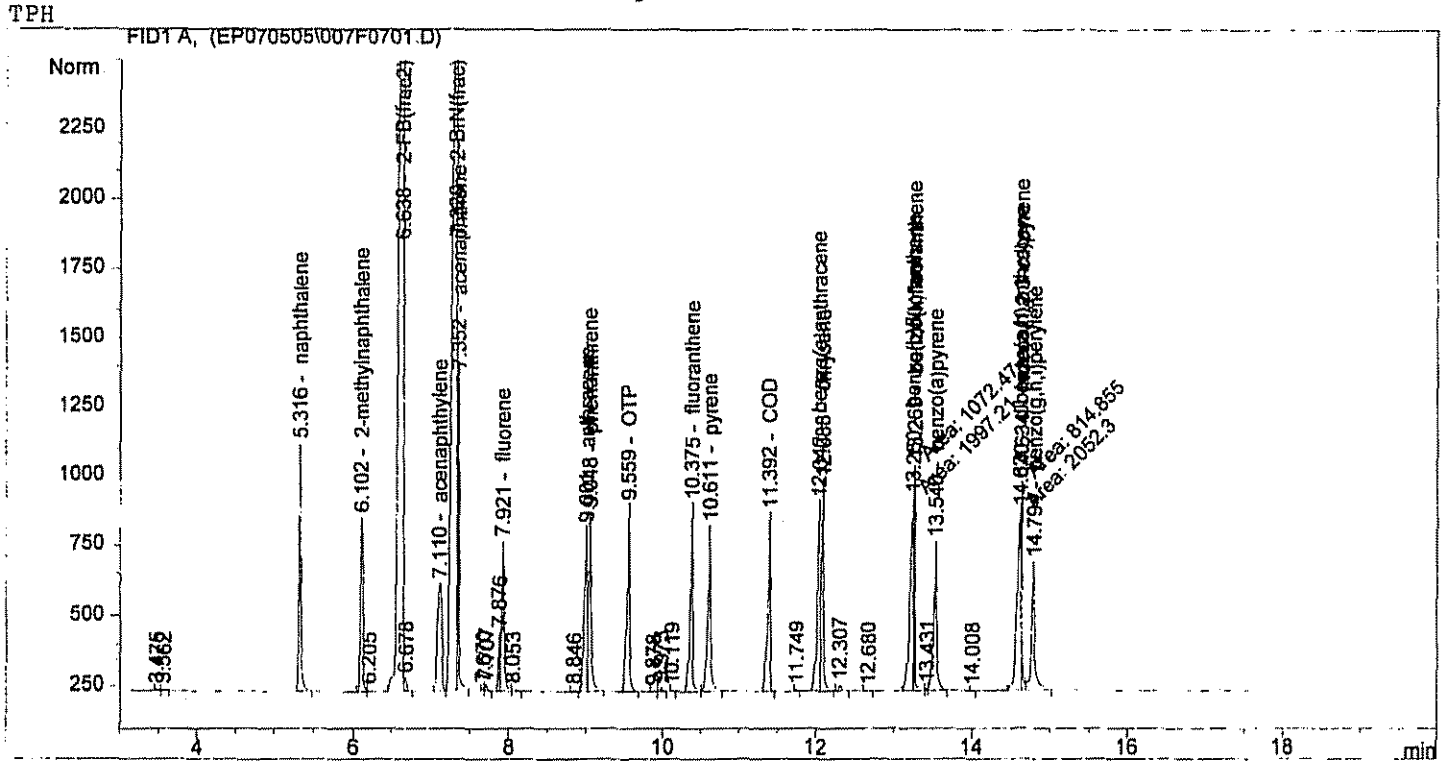
*** End of Report ***

Injection Date	: 7/5/2005 7:57:34 PM	Seq. Line :	7
Sample Name	: R 20 ical	Location :	Vial 7
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:24:52 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/6/2005 8:24:52 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.316	BB	0.0266	1560.88293	0.00203	naphthalene
2	6.102	BV	0.0401	1488.68005	0.00194	2-methylnaphthalene
3	6.638	BV	0.0461	1.69993e4	0.02215	2-FB(frac2)
4	7.110	PV	0.0495	1483.72766	0.00193	acenaphthylene
5	7.320	VV	0.0471	1.18874e4	0.01549	2-BrN(frac)
6	7.352	VB	0.0179	1344.53394	0.00175	acenaphthene
7	7.921	VV	0.0328	1174.09924	0.00153	fluorene
8	9.001	BV	0.0356	1523.33997	0.00199	anthracene
9	9.048	VB	0.0308	1401.40002	0.00183	phenanthrene
10	9.559	BB	0.0348	1633.10645	0.00213	OTP
11	10.375	BB	0.0329	1480.49524	0.00193	fluoranthene
12	10.611	BB	0.0348	1549.50317	0.00202	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	BB	0.0313	1423.13940	0.00185	COD
14	12.042	BV	0.0356	1639.31689	0.00214	benzo(a)anthracene
15	12.088	VB	0.0261	1352.98071	0.00176	chrysene
16	13.250	MF	0.0484	1997.20630	0.00260	benzo(b)fluoranthene
17	13.269	FM	0.0221	1072.47473	0.00140	benzo(k)fluoranthene
18	13.540	VB	0.0372	1456.48926	0.00190	benzo(a)pyrene
19	14.620	MF	0.0536	2052.29810	0.00267	dibenzo(a,h)anthracene
20	14.634	FM	0.0181	814.85461	0.00106	indeno(1,2,3-cd)pyrene
21	14.794	VB	0.0437	1551.06067	0.00202	benzo(g,h,i)perylene

Totals : 5.68863e4 7.413e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.602	BV S	0.0129	8.49849e4	0.11075	?
2	0.705	VV S	0.0440	1.37523e6	1.79211	?
3	1.742	VV S	0.6541	7.50294e7	97.77352	?
4	1.908	VV S	0.0673	3.74246e4	0.04877	?
5	1.952	VV S	0.0396	1.21283e4	0.01580	?
6	1.991	VV S	0.0302	1.07727e4	0.01404	?
7	2.034	VV S	0.0422	1.35335e4	0.01764	?
8	2.141	VV S	0.0741	2.04535e4	0.02665	?
9	2.182	VV S	0.0267	8688.21094	0.01132	?
10	2.244	VV S	0.0500	1.36782e4	0.01782	?
11	2.286	VV S	0.0402	9538.84961	0.01243	?
12	2.339	VV S	0.0380	9001.33887	0.01173	?
13	2.385	VV S	0.0318	7613.07666	0.00992	?
14	2.426	VV S	0.0291	6637.50195	0.00865	?
15	2.460	VV S	0.0457	8927.53320	0.01163	?
16	2.518	VV S	0.0398	7637.46240	0.00995	?
17	2.580	VV S	0.0647	1.09379e4	0.01425	?
18	2.637	VV S	0.0596	1.08081e4	0.01408	?
19	2.749	VV S	0.0288	1986.04175	0.00259	?
20	2.779	VB S	0.0183	975.51318	0.00127	?
21	2.814	BB X	0.0116	47.10050	6.138e-5	?
22	3.475	PB	0.0277	12.00442	1.564e-5	?
23	3.562	BB	0.0356	8.19074	1.067e-5	?
24	6.205	VB	0.0407	21.58257	2.813e-5	?
25	6.678	VB	0.0297	92.83358	0.00012	?
26	7.670	PV	0.0219	16.38607	2.135e-5	?
27	7.707	VB	0.0279	40.37153	5.261e-5	?
28	7.876	BV	0.0219	302.78958	0.00039	?
29	8.053	VB	0.0449	30.28831	3.947e-5	?
30	8.846	BP	0.0302	15.07834	1.965e-5	?
31	9.878	PB	0.0225	1.79715	2.342e-6	?
32	9.973	BP	0.0272	22.23527	2.898e-5	?
33	10.119	BB	0.0235	2.33401	3.042e-6	?
34	11.749	BB	0.0271	10.53847	1.373e-5	?
35	12.307	BB	0.0479	69.49090	9.056e-5	?
36	12.680	BP	0.0368	5.62944	7.336e-6	?
37	13.431	BV	0.0221	12.97947	1.691e-5	?
38	14.008	PP	0.0226	2.48874	3.243e-6	?

Uncalib. totals : 7.66810e7 99.9259

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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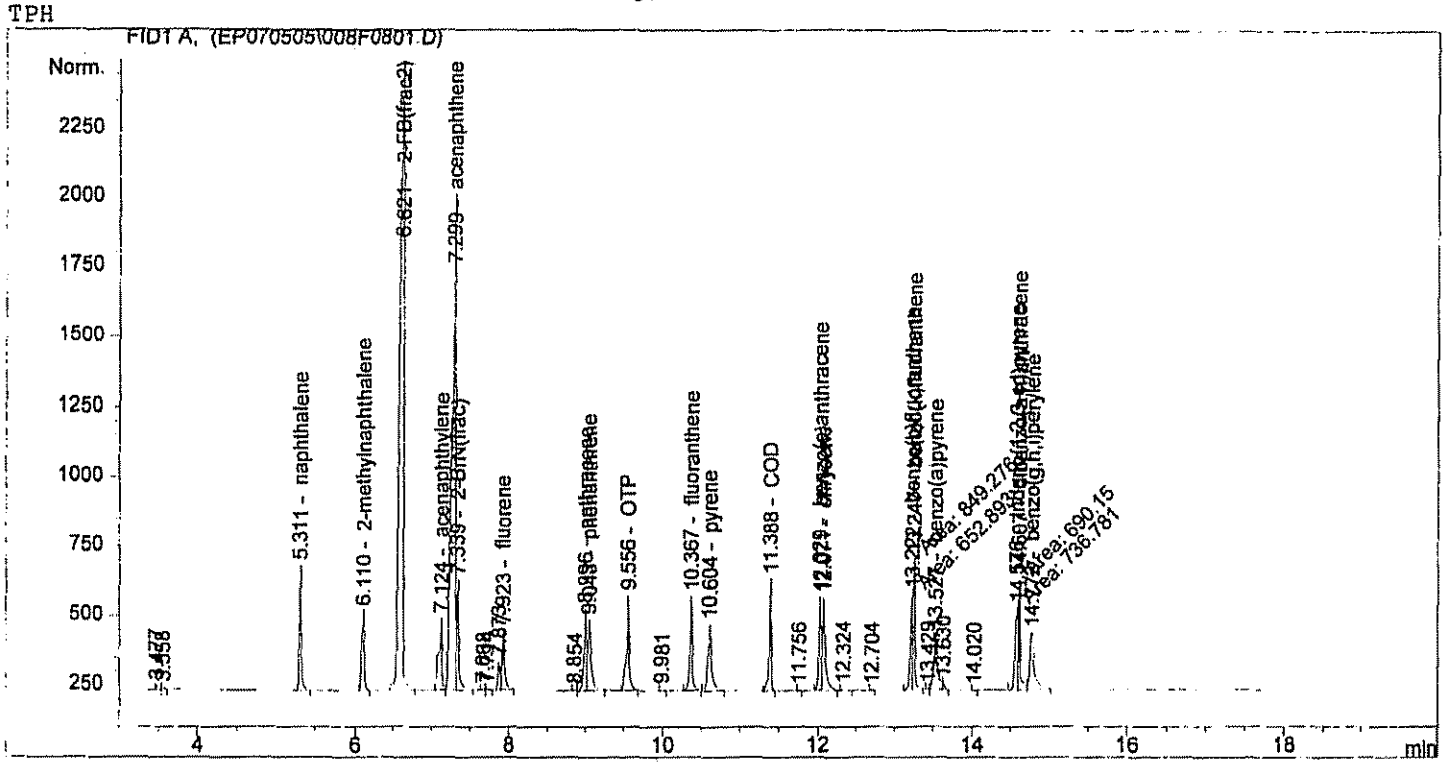
==========================================================================
Injection Date  : 7/5/2005 8:24:17 PM          Seq. Line :   8
Sample Name     : R 10 ical                     Location : Vial 8
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:25:57 AM by DCS
                  (modified after loading)
```

TPH

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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:25:40 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|----------------------
   1   5.311 BB     0.0257  759.28735  0.00094 naphthalene
   2   6.110 PB     0.0345  717.77917  0.00089 2-methylnaphthalene
   3   6.621 PB     0.0436 8296.57129  0.01032 2-FB(frac2)
   4   7.124 PV     0.0375  721.87189  0.00090 acenaphthylene
   5   7.299 VV     0.0454 5749.29248  0.00715 acenaphthene
   6   7.339 VB     0.0256  734.45514  0.00091 2-BrN(frac)
   7   7.923 VB     0.0325  511.53058  0.00064 fluorene
   8   8.996 VV     0.0340  684.11963  0.00085 anthracene
   9   9.043 VB     0.0414  753.16272  0.00094 phenanthrene
  10   9.556 BB     0.0336  802.95880  0.00100 OTP
  11  10.367 BB     0.0320  724.76520  0.00090 fluoranthene
  12  10.604 BB     0.0444  772.86615  0.00096 pyrene
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.388	BB	0.0264	707.93549	0.00088	COD
14	12.029	BV	0.0299	655.07660	0.00081	benzo(a)anthracene
15	12.071	VB	0.0364	831.57806	0.00103	chrysene
16	13.222	MF	0.0315	652.89319	0.00081	benzo(b)fluoranthene
17	13.247	FM	0.0300	849.27576	0.00106	benzo(k)fluoranthene
18	13.527	VV	0.0462	669.95624	0.00083	benzo(a)pyrene
19	14.576	MF	0.0414	736.78082	0.00092	indeno(1,2,3-cd)pyrene
20	14.607	FM	0.0289	690.14990	0.00086	dibenzo(a,h)anthracene
21	14.772	VB	0.0545	785.48206	0.00098	benzo(g,h,i)perylene

Totals : 2.78078e4 3.459e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.566	PV S	0.0132	747.37988	0.00093	?
2	0.675	VV S	0.0292	3.96008e5	0.49263	?
3	1.820	VV S	0.9774	7.97979e7	99.26709	?
4	1.959	VV S	0.1138	3.89370e4	0.04844	?
5	2.068	VV S	0.0817	2.05034e4	0.02551	?
6	2.115	VV S	0.0531	1.24003e4	0.01543	?
7	2.185	VV S	0.0484	1.44270e4	0.01795	?
8	2.248	VV S	0.0385	8142.15771	0.01013	?
9	2.280	VV S	0.0282	6517.15088	0.00811	?
10	2.326	VV S	0.0314	7340.53955	0.00913	?
11	2.363	VV S	0.0372	6874.45264	0.00855	?
12	2.403	VV S	0.0357	7568.43799	0.00941	?
13	2.455	VV S	0.0411	8658.30078	0.01077	?
14	2.509	VV S	0.0340	7557.59131	0.00940	?
15	2.554	VV S	0.0299	5949.49072	0.00740	?
16	2.599	VV S	0.0469	8102.41602	0.01008	?
17	2.648	VV S	0.0348	3804.99854	0.00473	?
18	2.687	VV S	0.0280	2789.33472	0.00347	?
19	2.729	VV S	0.0309	2428.41943	0.00302	?
20	2.771	VB S	0.0301	2264.80884	0.00282	?
21	3.477	PB	0.0202	19.81381	2.465e-5	?
22	3.558	BB	0.0239	9.88446	1.230e-5	?
23	7.668	PV	0.0260	8.62177	1.073e-5	?
24	7.714	VB	0.0278	16.83376	2.094e-5	?
25	7.873	BV	0.0263	188.52881	0.00023	?
26	8.854	BP	0.0237	5.95888	7.413e-6	?
27	9.981	PP	0.0292	10.25769	1.276e-5	?
28	11.756	BB	0.0211	4.92660	6.129e-6	?
29	12.324	BP	0.0578	26.56639	3.305e-5	?
30	12.704	PB	0.0218	1.88195	2.341e-6	?
31	13.429	PV	0.0176	1.88680	2.347e-6	?
32	13.630	VB	0.0254	38.84804	4.833e-5	?
33	14.020	PB	0.0234	1.75642	2.185e-6	?

Uncalib. totals : 8.03592e7 99.9654

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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==========================================================================
Injection Date  : 7/5/2005 8:52:10 PM          Seq. Line :   9
Sample Name     : R 5 ical                      Location : Vial 9
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:27:20 AM by DCS
                  (modified after loading)
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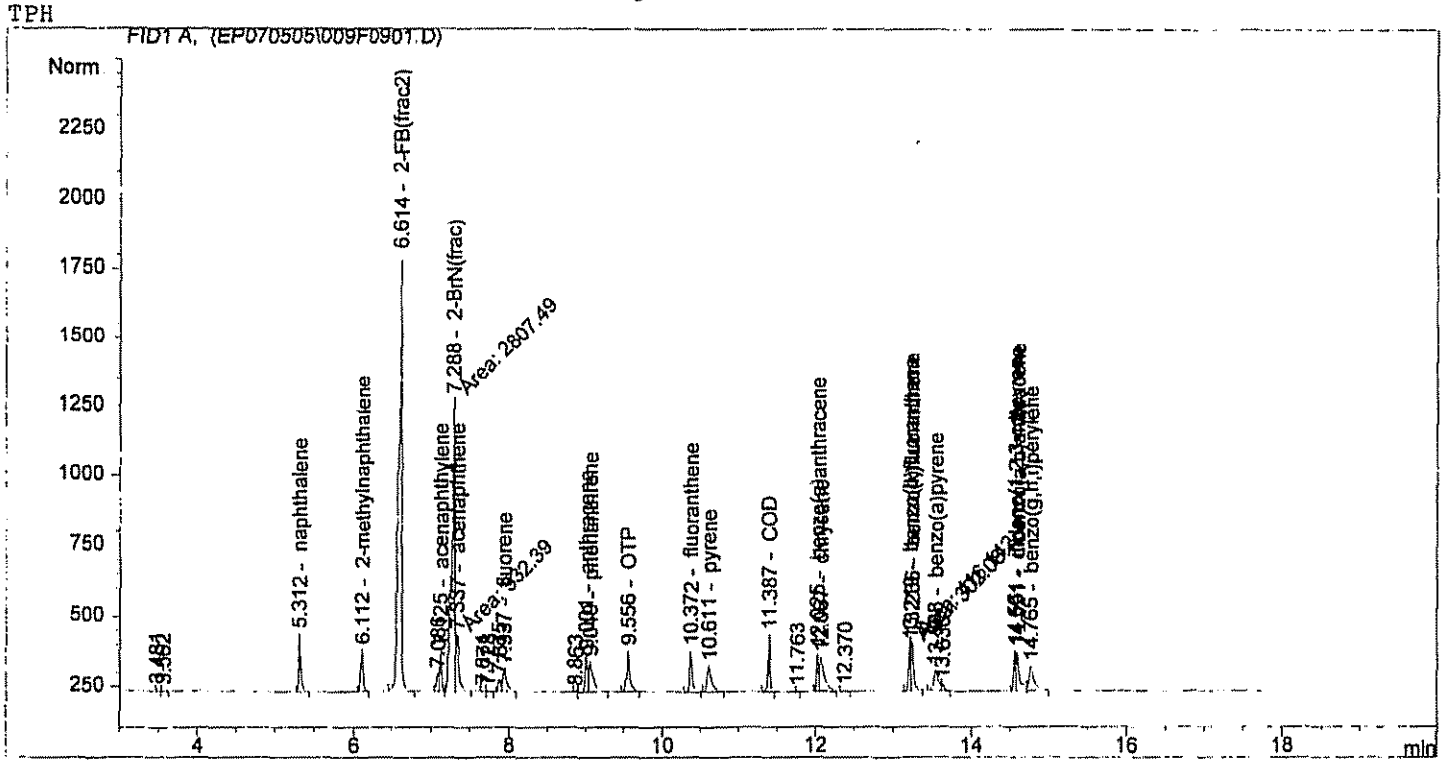
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:27:44 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BB	0.0275	381.19046	0.00046	naphthalene
2	6.112	PB	0.0344	365.53854	0.00045	2-methylnaphthalene
3	6.614	BB	0.0357	4271.07813	0.00520	2-FB(frac2)
4	7.125	VV	0.0234	228.60712	0.00028	acenaphthylene
5	7.288	MF	0.0448	2807.48755	0.00342	2-BrN(frac)
6	7.337	FM	0.0444	532.38989	0.00065	acenaphthene
7	7.937	VB	0.0445	266.79672	0.00033	fluorene
8	9.001	VV	0.0320	293.35999	0.00036	anthracene
9	9.049	VB	0.0533	435.87302	0.00053	phenanthrene
10	9.556	BB	0.0387	407.76004	0.00050	OTP
11	10.372	BB	0.0379	362.46796	0.00044	fluoranthene
12	10.611	BB	0.0614	391.06754	0.00048	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.387	BB	0.0265	359.22467	0.00044	COD
14	12.025	BV	0.0293	256.21942	0.00031	benzo(a)anthracene
15	12.067	VB	0.0519	490.22177	0.00060	chrysene
16	13.219	MF	0.0308	302.08035	0.00037	benzo(b)fluoranthene
17	13.236	FM	0.0383	416.14188	0.00051	benzo(k)fluoranthene
18	13.538	PV	0.0561	302.04449	0.00037	benzo(a)pyrene
19	14.561	BV	0.0301	289.19754	0.00035	indeno(1,2,3-cd)pyrene
20	14.591	VV	0.0378	380.25415	0.00046	dibenzo(a,h)anthracene
21	14.765	VB	0.0616	407.44254	0.00050	benzo(g,h,i)perylene

Totals : 1.39464e4 1.699e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.563	PV S	0.0140	759.74811	0.00093	?
2	0.683	VV S	0.0272	4.71086e5	0.57401	?
3	1.835	VV S	0.9971	8.14189e7	99.20795	?
4	1.950	PV T	0.0638	2.90373e4	0.03538	?
5	1.997	VV S	0.0228	8289.62305	0.01010	?
6	2.048	VV S	0.0489	1.32992e4	0.01620	?
7	2.093	VV S	0.0313	8470.81152	0.01032	?
8	2.137	VV S	0.0370	1.00365e4	0.01223	?
9	2.165	VV S	0.0329	7709.98682	0.00939	?
10	2.210	VV S	0.0343	7856.13281	0.00957	?
11	2.246	VV S	0.0270	5997.93506	0.00731	?
12	2.275	VV S	0.0240	5644.15088	0.00688	?
13	2.309	VV S	0.0357	8035.14502	0.00979	?
14	2.364	VV S	0.0360	7999.90137	0.00975	?
15	2.403	VV S	0.0385	8932.79004	0.01088	?
16	2.462	VV S	0.0381	7766.06934	0.00946	?
17	2.501	VV S	0.0397	7978.09717	0.00972	?
18	2.562	VV S	0.0350	7006.06787	0.00854	?
19	2.600	VV S	0.0308	6012.04736	0.00733	?
20	2.636	VV S	0.0245	4077.92383	0.00497	?
21	2.664	VV S	0.0264	2937.18262	0.00358	?
22	2.696	VV S	0.0469	4386.25098	0.00534	?
23	2.771	VB S	0.0397	2436.74902	0.00297	?
24	3.481	PB	0.0212	10.43116	1.271e-5	?
25	3.562	BP	0.0298	5.43903	6.627e-6	?
26	7.086	PV	0.0332	139.99332	0.00017	?
27	7.671	PV	0.0321	4.02950	4.910e-6	?
28	7.728	VP	0.0332	6.47859	7.894e-6	?
29	7.875	BV	0.0295	89.97723	0.00011	?
30	8.863	PV	0.0219	2.26688	2.762e-6	?
31	11.763	BB	0.0205	2.35931	2.875e-6	?
32	12.370	PP	0.0405	12.58713	1.534e-5	?
33	13.630	VB	0.0330	48.26193	5.881e-5	?

Uncalib. totals : 8.20550e7 99.9830

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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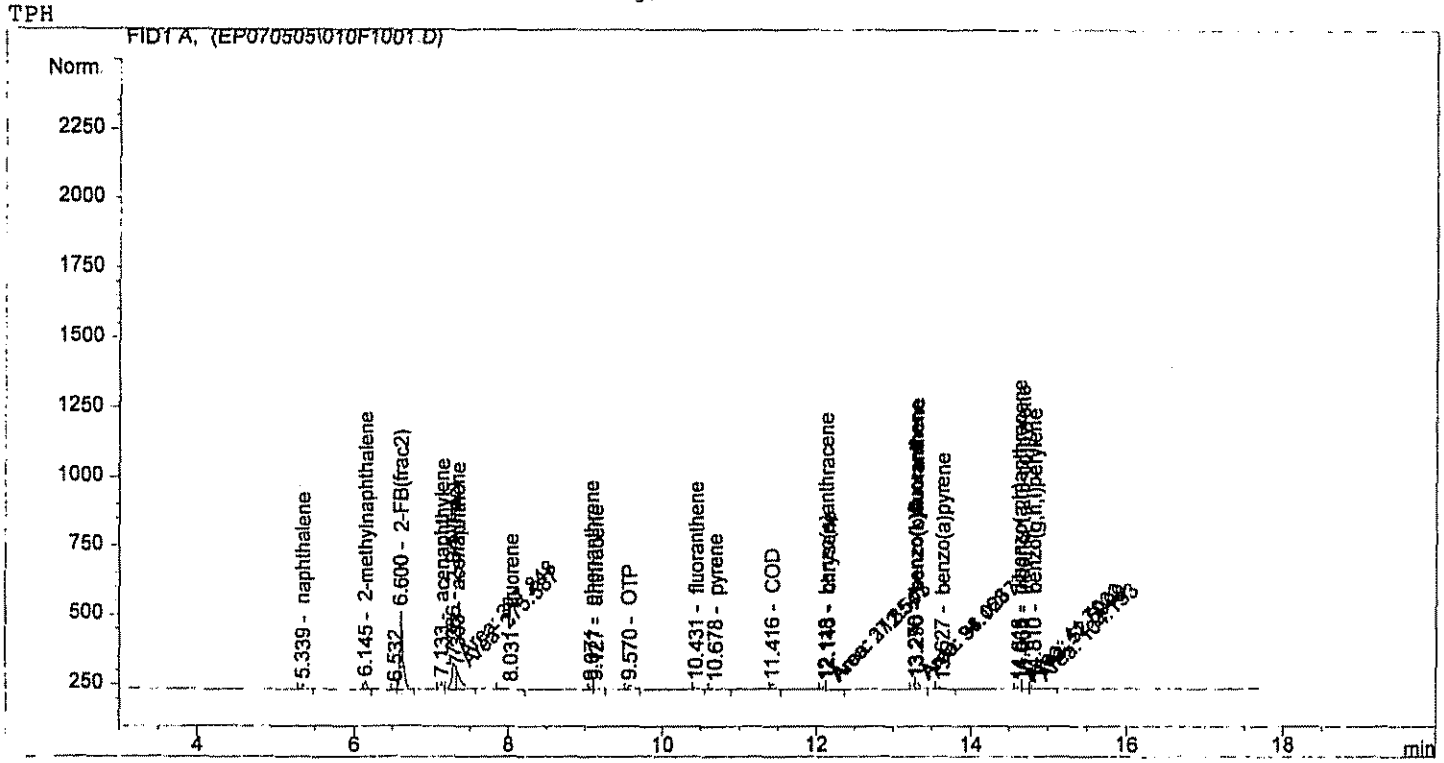
==========================================================================
Injection Date  : 7/5/2005 9:19:15 PM          Seq. Line :  10
Sample Name     : R 1 ical                      Location : Vial 10
Acq. Operator   : DCS                               Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:27:20 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:27:44 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   5.339 BB      0.0512   64.31669 7.634e-5 naphthalene
   2   6.145 BB      0.0378   64.35564 7.638e-5 2-methylnaphthalene
   3   6.600 VB      0.0394  807.25494  0.00096 2-FB(frac2)
   4   7.133 BV      0.0339   58.26943 6.916e-5 acenaphthylene
   5   7.286 MF      0.0601  347.84760  0.00041 2-BrN(frac)
   6   7.333 FM      0.0694  275.58743  0.00033 acenaphthene
   7   8.031 BB      0.1123   62.26244 7.390e-5 fluorene
   8   9.071 PV      0.0353   30.46159 3.615e-5 phenanthrene
   9   9.127 VB      0.0686   61.32705 7.279e-5 anthracene
  10   9.570 PB      0.0630   60.99045 7.239e-5 OTP
  11  10.431 PB      0.0520   47.63327 5.654e-5 fluoranthene
  12  10.678 PB      0.0873   55.33611 6.568e-5 pyrene
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.416	PB	0.0518	62.48400	7.416e-5	COD
14	12.118	MF	0.0344	27.85410	3.306e-5	benzo(a)anthracene
15	12.143	FM	0.1057	112.50302	0.00013	chrysene
16	13.276	MF	0.0271	34.16298	4.055e-5	benzo(k)fluoranthene
17	13.290	FM	0.0687	98.02668	0.00012	benzo(b)fluoranthene
18	13.627	BP	0.0798	59.56261	7.069e-5	benzo(a)pyrene
19	14.618	MF	0.0534	41.70220	4.950e-5	dibenzo(a,h)anthracene
20	14.663	MF	0.0767	52.59986	6.243e-5	indeno(1,2,3-cd)pyrene
21	14.810	FM	0.1217	104.19251	0.00012	benzo(g,h,i)perylene

Totals : 2528.73061 3.001e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.586	BV S	0.0143	4333.71777	0.00514	?
2	1.839	VP S	1.0271	8.40868e7	99.80158	?
3	2.008	VV S	0.0761	3.65618e4	0.04339	?
4	2.059	VV S	0.0345	1.20447e4	0.01430	?
5	2.112	VV S	0.0375	1.27805e4	0.01517	?
6	2.156	VV S	0.0405	1.08336e4	0.01286	?
7	2.224	VV S	0.0529	1.29609e4	0.01538	?
8	2.281	VV S	0.0449	1.06941e4	0.01269	?
9	2.351	VV S	0.0485	1.21059e4	0.01437	?
10	2.403	VV S	0.0348	8085.68506	0.00960	?
11	2.452	VV S	0.0350	7751.59668	0.00920	?
12	2.492	VV S	0.0360	6734.70947	0.00799	?
13	2.553	VV S	0.0550	1.09048e4	0.01294	?
14	2.609	VV S	0.0359	6701.88184	0.00795	?
15	2.653	VV S	0.0348	4843.07471	0.00575	?
16	2.701	VV S	0.0276	2745.96802	0.00326	?
17	2.731	VV S	0.0322	2425.09570	0.00288	?
18	2.781	VB S	0.0288	2030.10254	0.00241	?
19	2.817	BB T	0.0179	88.50211	0.00011	?
20	6.532	PV	0.0308	19.19580	2.278e-5	?

Uncalib. totals : 8.42515e7 99.9970

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

EPH CVS Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16 80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9 4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

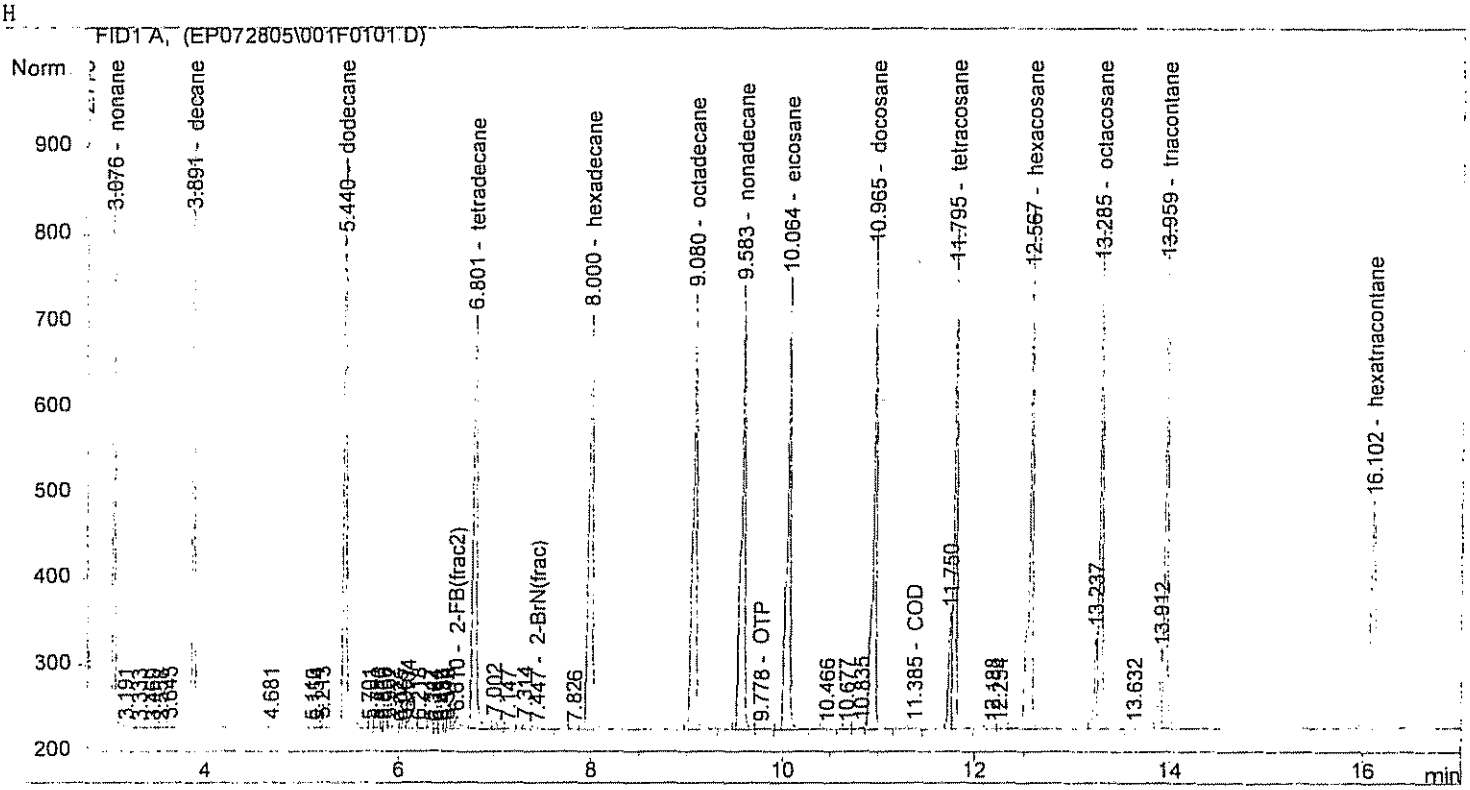
Calibration Check Date: 07/28/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	16.7
C_{19}-C_{36} Aliphatics	160	-1.6
C_{11}-C_{22} Aromatics	340	-2.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 7/28/2005 8:37:58 AM          Seq. Line :   1
Sample Name     : K 20 ccal                      Location : Vial 1
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.076 VV     0.0168 1264.96216  0.00160 nonane
   2   3.891 PB     0.0186 1272.08618  0.00161 decane
   3   5.440 VV     0.0293 1315.61853  0.00166 dodecane
   4   6.610 VV     0.0570   55.65034 7.037e-5 2-FB(frac2)
   5   6.801 VV     0.0377 1308.80298  0.00166 tetradecane
   6   7.447 VB     0.0318    4.11023 5.197e-6 2-BrN(frac)
   7   8.000 VV     0.0380 1291.63171  0.00163 hexadecane
   8   9.080 VB     0.0359 1300.79431  0.00164 octadecane
   9   9.583 VV     0.0342 1294.96045  0.00164 nonadecane
  10   9.778 VB     0.0525    7.09445 8.971e-6 OTP
  11  10.064 BB     0.0348 1293.04797  0.00164 eicosane
  12  10.965 VP     0.0309 1284.66931  0.00162 docosane
  13  11.385 PP     0.0304    5.30680 6.711e-6 COD
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.795	VB	0.0279	1023.44165	0.00129	tetracosane
15	12.567	VB	0.0298	1292.73730	0.00163	hexacosane
16	13.285	VB	0.0275	1067.87793	0.00135	octacosane
17	13.959	VB	0.0282	1086.87280	0.00137	triacontane
18	16.102	BB	0.0499	927.85443	0.00117	hexatriacontane

Totals : 1.70975e4 2.162e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0206	119.55467	0.00015	?
2	0.589	VV	0.0178	72.54391	9.173e-5	?
3	1.781	VV S	0.9841	7.81383e7	98.80819	?
4	1.850	VV S	0.0162	7.77461e5	0.98312	?
5	1.933	VV S	0.0313	1.16938e4	0.01479	?
6	1.980	VV S	0.0386	1.22007e4	0.01543	?
7	2.016	VV S	0.0264	8618.49609	0.01090	?
8	2.054	VV S	0.0325	9370.96680	0.01185	?
9	2.097	VV S	0.0317	1.00099e4	0.01266	?
10	2.146	VV S	0.0322	8856.51172	0.01120	?
11	2.178	VV S	0.0215	5688.20361	0.00719	?
12	2.209	VV S	0.0284	7512.77686	0.00950	?
13	2.252	VV S	0.0269	6840.00439	0.00865	?
14	2.291	VV S	0.0381	8377.75781	0.01059	?
15	2.332	VV S	0.0299	6664.33984	0.00843	?
16	2.389	VV S	0.0386	8936.45215	0.01130	?
17	2.443	VV S	0.0450	9142.24219	0.01156	?
18	2.490	VV S	0.0261	5733.78125	0.00725	?
19	2.539	VV S	0.0538	9001.94336	0.01138	?
20	2.600	VV S	0.0390	6152.07568	0.00778	?
21	2.646	VV S	0.0305	4895.98633	0.00619	?
22	2.685	VV S	0.0241	2639.33350	0.00334	?
23	2.724	VV S	0.0316	2383.98584	0.00301	?
24	2.778	VBAS	0.0385	2051.99365	0.00259	?
25	3.191	VV	0.0559	8.45541	1.069e-5	?
26	3.333	VB	0.0287	2.39400	3.027e-6	?
27	3.469	BV	0.0254	2.42327	3.064e-6	?
28	3.558	VV	0.0262	1.85350	2.344e-6	?
29	3.645	VB	0.0181	4.01634	5.079e-6	?
30	4.681	VV	0.0510	11.31295	1.431e-5	?
31	5.110	VV	0.0438	5.74785	7.268e-6	?
32	5.154	VV	0.0305	3.72121	4.706e-6	?
33	5.213	VV	0.0331	9.08682	1.149e-5	?
34	5.701	VV	0.0339	5.44251	6.882e-6	?
35	5.790	VV	0.0430	8.99521	1.137e-5	?
36	5.827	VV	0.0225	5.00009	6.323e-6	?
37	5.860	VV	0.0313	7.98117	1.009e-5	?
38	5.907	VV	0.0547	16.63952	2.104e-5	?
39	6.025	VV	0.0199	2.19635	2.777e-6	?
40	6.067	VV	0.0281	6.11753	7.736e-6	?
41	6.104	VV	0.0455	42.41567	5.364e-5	?
42	6.218	VV	0.0555	12.40471	1.569e-5	?
43	6.347	VV	0.0457	5.59434	7.074e-6	?
44	6.384	VV	0.0335	4.34126	5.490e-6	?
45	6.456	VV	0.0312	6.99944	8.851e-6	?
46	6.484	VV	0.0235	5.41319	6.845e-6	?
47	6.518	VV	0.0334	7.87021	9.952e-6	?
48	7.002	VV	0.0432	29.12954	3.684e-5	?
49	7.147	VV	0.0614	11.85152	1.499e-5	?
50	7.314	VV	0.0862	40.99047	5.183e-5	?
51	7.826	VP	0.0391	5.81802	7.357e-6	?
52	10.466	VB	0.0404	5.24575	6.633e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	10.677	BV	0.0424	3.97980	5.033e-6	?
54	10.835	VV	0.0459	9.64606	1.220e-5	?
55	11.750	VV	0.0298	261.15298	0.00033	?
56	12.188	PV	0.0518	6.85633	8.670e-6	?
57	12.254	VV	0.0532	6.80288	8.602e-6	?
58	13.237	VV	0.0314	222.85165	0.00028	?
59	13.632	VV	0.0317	3.30592	4.180e-6	?
60	13.912	VV	0.0297	180.46220	0.00023	?

Uncalib. totals : 7.90637e7 99.9784

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/28/2005 9:04:51 AM          Seq. Line :   2
Sample Name     : R 20 ccal                      Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
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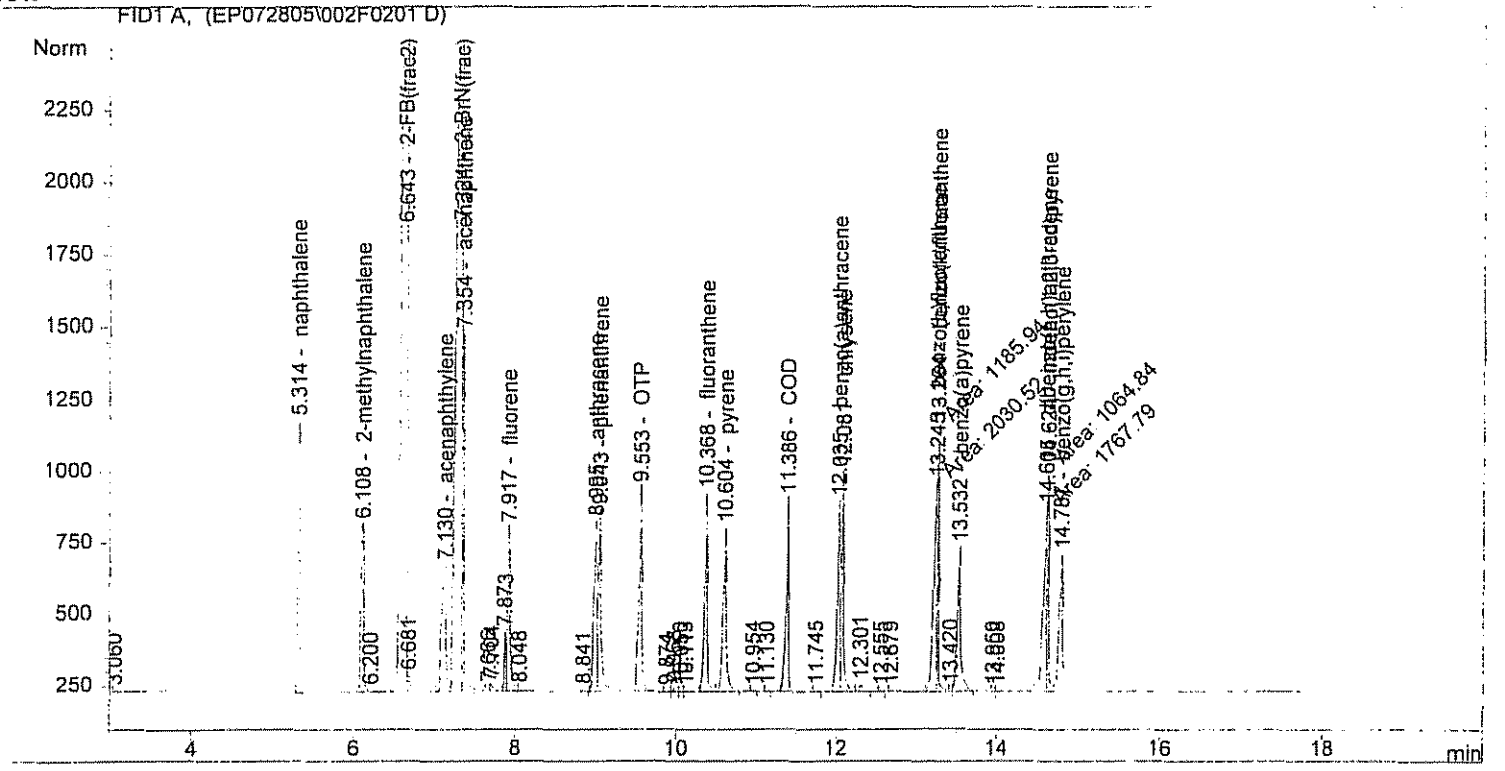


```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.314	BB	0.0262	1643.75293	0.00219	naphthalene
2	6.108	BV	0.0430	1562.94580	0.00208	2-methylnaphthalene
3	6.643	PV	0.0462	1.93970e4	0.02585	2-FB(frac2)
4	7.130	PP	0.0456	1564.34741	0.00209	acenaphthylene
5	7.324	VV	0.0509	1.36348e4	0.01817	2-BrN(frac)
6	7.354	VB	0.0168	1358.22046	0.00181	acenaphthene
7	7.917	VV	0.0316	1249.66565	0.00167	fluorene
8	8.995	BV	0.0368	1562.23962	0.00208	anthracene
9	9.043	VB	0.0351	1524.79150	0.00203	phenanthrene
10	9.553	BB	0.0330	1702.72388	0.00227	OTP
11	10.368	BV	0.0313	1558.82227	0.00208	fluoranthene
12	10.604	VB	0.0408	1648.78577	0.00220	pyrene
13	11.386	BB	0.0306	1475.08411	0.00197	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	12.035	BV	0.0340	1647.17676	0.00220	benzo(a)anthracene
15	12.081	VV	0.0276	1494.96289	0.00199	chrysene
16	13.245	MF	0.0463	2030.52319	0.00271	benzo(b)fluoranthene
17	13.264	FM	0.0212	1185.93726	0.00158	benzo(k)fluoranthene
18	13.532	VB	0.0415	1520.28906	0.00203	benzo(a)pyrene
19	14.605	MF	0.0461	1767.78906	0.00236	dibenzo(a,h)anthracene
20	14.624	FM	0.0227	1064.84131	0.00142	indeno(1,2,3-cd)pyrene
21	14.787	VB	0.0422	1557.63599	0.00208	benzo(g,h,i)perylene

Totals : 6.21524e4 8.284e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.609	PV S	0.0190	1.35559e5	0.18068	?
2	0.733	VV S	0.0634	2.53043e6	3.37268	?
3	1.741	VV S	0.8955	7.13986e7	95.16342	?
4	1.800	VV S	0.0162	7.45860e5	0.99412	?
5	1.866	VV S	0.0387	1.36964e4	0.01826	?
6	1.911	VV S	0.0311	1.17953e4	0.01572	?
7	1.949	VV S	0.0288	8606.45215	0.01147	?
8	1.997	VV S	0.0525	1.39617e4	0.01861	?
9	2.056	VV S	0.0263	8145.26416	0.01086	?
10	2.097	VV S	0.0291	8458.34375	0.01127	?
11	2.172	VV S	0.0606	1.51419e4	0.02018	?
12	2.218	VV S	0.0363	8907.74707	0.01187	?
13	2.280	VV S	0.0432	8977.37207	0.01197	?
14	2.314	VV S	0.0585	1.11951e4	0.01492	?
15	2.421	VV S	0.0710	1.19837e4	0.01597	?
16	2.488	VV S	0.0640	1.03078e4	0.01374	?
17	2.556	VV S	0.0293	5668.72412	0.00756	?
18	2.601	VV S	0.0327	5979.32715	0.00797	?
19	2.641	VV S	0.0324	4627.78955	0.00617	?
20	2.691	VV S	0.0485	4489.70068	0.00598	?
21	2.773	VB S	0.0460	2091.23511	0.00279	?
22	3.060	PB	0.0224	2.24053	2.986e-6	?
23	6.200	VB	0.0438	22.90016	3.052e-5	?
24	6.681	VB	0.0251	92.13212	0.00012	?
25	7.666	PV	0.0254	17.20888	2.294e-5	?
26	7.704	VB	0.0259	47.59237	6.343e-5	?
27	7.873	PV	0.0245	310.27844	0.00041	?
28	8.048	VB	0.0448	32.34379	4.311e-5	?
29	8.841	BP	0.0316	16.21657	2.161e-5	?
30	9.874	PB	0.0323	7.96120	1.061e-5	?
31	9.968	BV	0.0302	28.05548	3.739e-5	?
32	10.050	VV	0.0344	6.73734	8.980e-6	?
33	10.113	VB	0.0318	5.84846	7.795e-6	?
34	10.954	BP	0.0259	3.01756	4.022e-6	?
35	11.130	BP	0.0306	3.56716	4.754e-6	?
36	11.745	BB	0.0318	13.59923	1.813e-5	?
37	12.301	VB	0.0518	83.15736	0.00011	?
38	12.555	PB	0.0191	1.46408	1.951e-6	?
39	12.679	PB	0.0265	3.99664	5.327e-6	?
40	13.420	VV	0.0251	16.39751	2.186e-5	?
41	13.950	BP	0.0257	2.96495	3.952e-6	?
42	14.008	VP	0.0215	2.95805	3.943e-6	?

Uncalib. totals : 7.49652e7 99.9172

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

EPH QC, Blanks Raw Data

```
Injection Date  : 7/28/2005 10:24:10 AM          Seq. Line :   1
Sample Name     : pb3307                          Location : Vial 3
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\072805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
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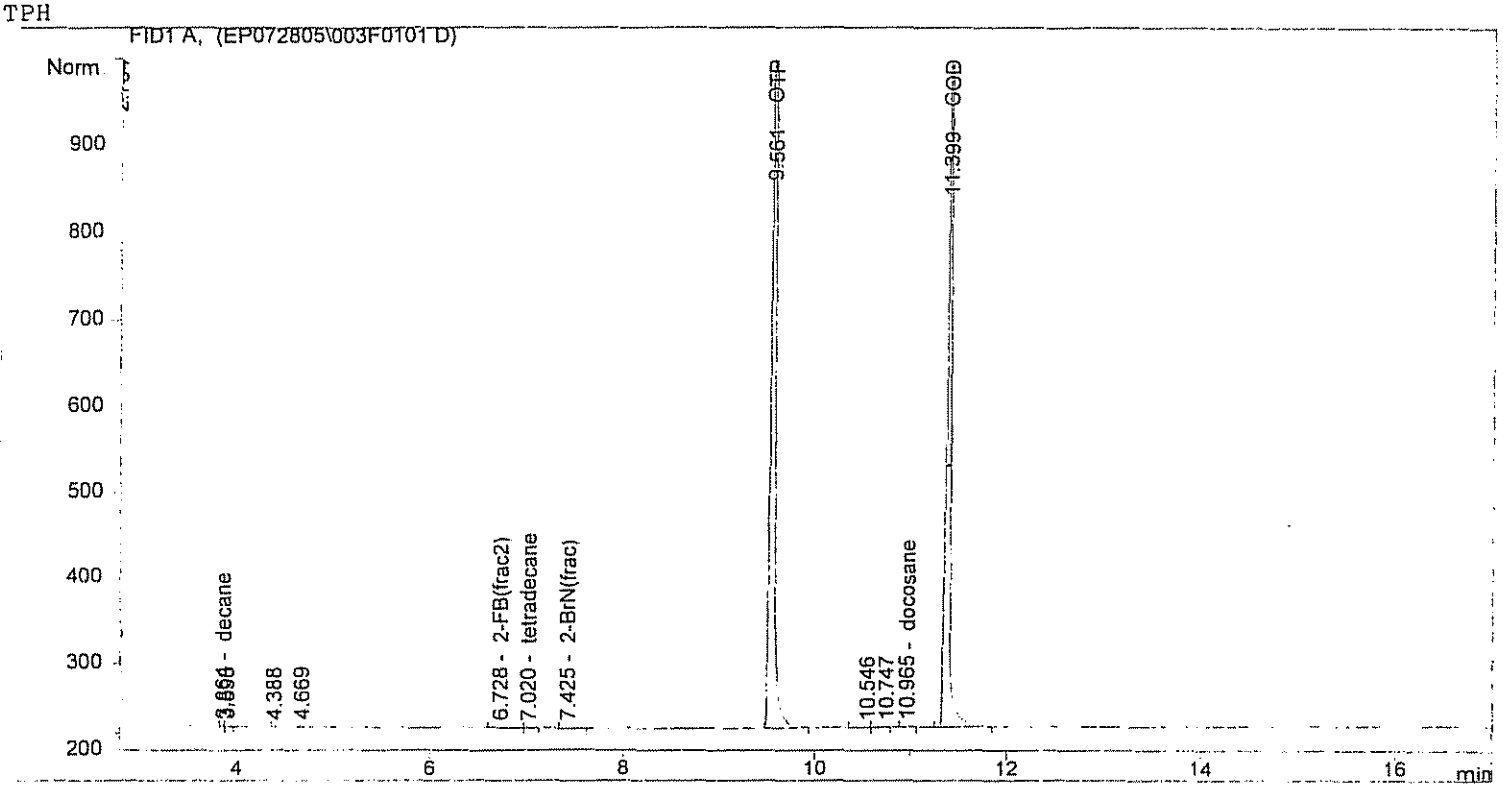


Area Percent Report

```
Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.072		0.0000	0.00000	0.00000	nonane
2	3.864	PV	0.0212	3.25441	4.251e-6	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.728	PB	0.1175	24.88557	3.251e-5	2-FB(frac2)
5	7.020	BB	0.0484	5.03991	6.584e-6	tetradecane
6	7.425	PB	0.0849	18.66160	2.438e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.561	PB	0.0353	3324.04248	0.00434	OTP
10	9.581		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	10.965	VP	0.0471	4.52341	5.909e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.399	BB	0.0333	2885.98926	0.00377	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6266.39664 8.186e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.552	PV	0.0250	164.54921	0.00021	?
2	0.588	VV	0.0142	162.18129	0.00021	?
3	1.797	VV S	0.9385	7.55292e7	98.66533	?
4	1.824	VV S	0.0181	8.69170e5	1.13542	?
5	1.898	VV S	0.0285	1.12084e4	0.01464	?
6	1.942	VV S	0.0314	1.00477e4	0.01313	?
7	1.986	VV S	0.0290	1.09841e4	0.01435	?
8	2.034	VV S	0.0458	1.19293e4	0.01558	?
9	2.098	VV S	0.0480	1.12998e4	0.01476	?
10	2.141	VV S	0.0318	8850.49902	0.01156	?
11	2.187	VV S	0.0374	9434.25391	0.01232	?
12	2.238	VV S	0.0319	7531.51074	0.00984	?
13	2.278	VV S	0.0376	8379.73926	0.01095	?
14	2.328	VV S	0.0365	8123.06836	0.01061	?
15	2.380	VV S	0.0287	6272.78027	0.00819	?
16	2.429	VV S	0.0568	9690.29395	0.01266	?
17	2.496	VV S	0.0445	7765.89746	0.01014	?
18	2.551	VV S	0.0436	7844.16064	0.01025	?
19	2.596	VV S	0.0317	4966.22363	0.00649	?
20	2.641	VV S	0.0328	4466.47266	0.00583	?
21	2.680	VV S	0.0288	2749.33252	0.00359	?
22	2.726	VV S	0.0471	3332.70508	0.00435	?
23	2.784	VBAS	0.0174	1033.51038	0.00135	?
24	3.898	VB	0.0323	3.51763	4.595e-6	?
25	4.388	VV	0.0300	2.22883	2.912e-6	?
26	4.669	BV	0.0572	10.71628	1.400e-5	?
27	10.546	VV	0.0795	6.21834	8.123e-6	?
28	10.747	VV	0.0765	6.40664	8.369e-6	?

Uncalib. totals : 7.65446e7 99.9918

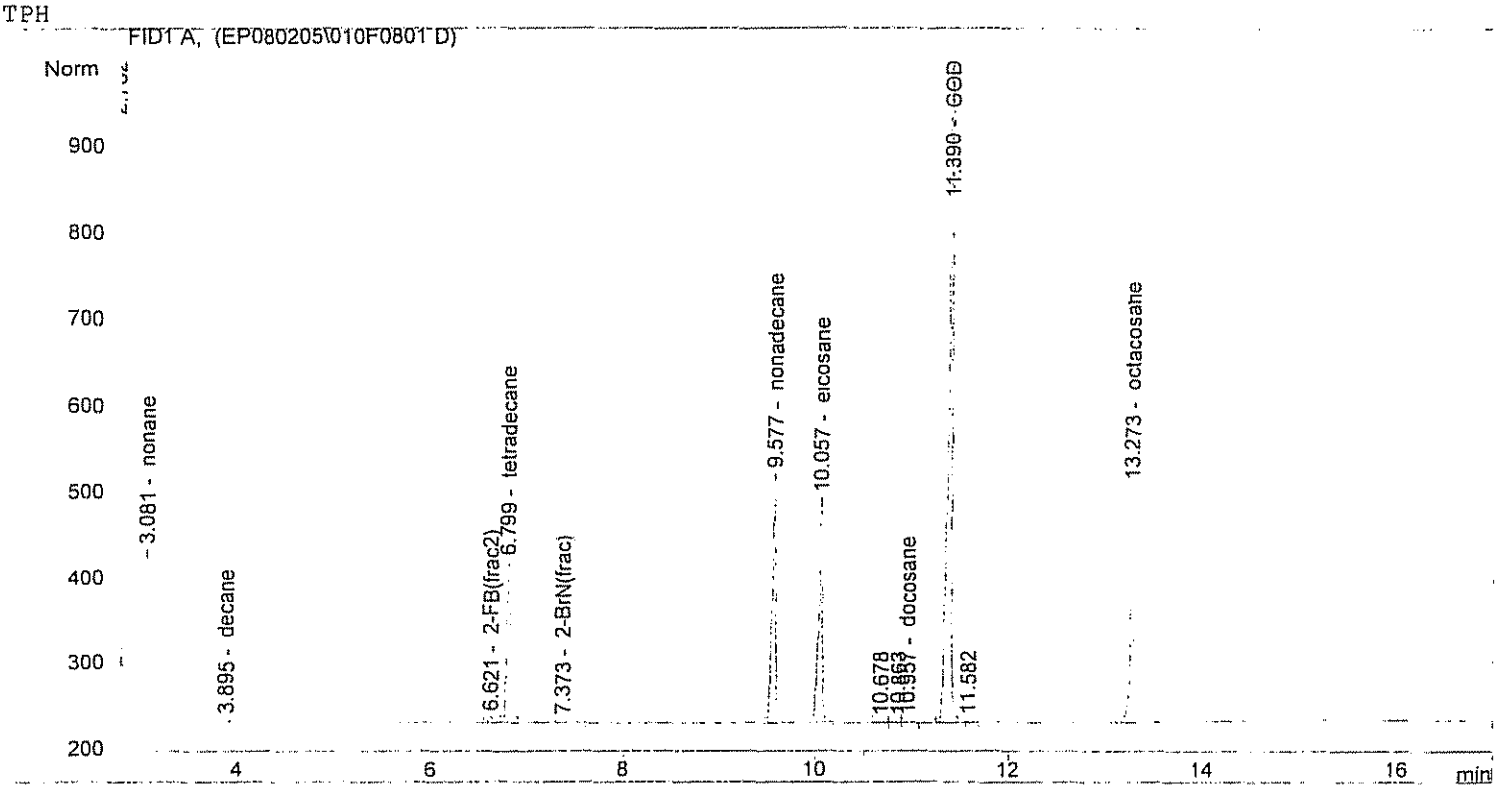
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 8/2/2005 1:58:04 PM          Seq. Line :   8
Sample Name     : lcs3307 x1 K                  Location : Vial 10
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.081	VB	0.0177	234.96204	0.00029	nonane
2	3.895	VB	0.0353	5.24665	6.490e-6	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.621	BV	0.0494	23.64721	2.925e-5	2-FB(frac2)
5	6.799	VB	0.0429	535.82941	0.00066	tetradecane
6	7.373	PB	0.0960	18.73291	2.317e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.570		0.0000	0.00000	0.00000	OTP
10	9.577	BB	0.0348	743.39978	0.00092	nonadecane
11	10.057	VB	0.0330	628.83240	0.00078	eicosane
12	10.957	VV	0.0531	6.67102	8.251e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.390	PV	0.0324	2374.27197	0.00294	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.273	PV	0.0334	626.75439	0.00078	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5198.34778 6.430e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0249	111.39847	0.00014	?
2	0.589	VV	9.59e-3	118.62114	0.00015	?
3	0.689	VV S	0.0285	5.89457e5	0.72909	?
4	1.850	VV S	0.9734	7.92668e7	98.04428	?
5	1.877	VV S	0.0174	8.44420e5	1.04445	?
6	1.941	VV S	0.0368	1.17122e4	0.01449	?
7	1.971	VV S	0.0319	9855.95801	0.01219	?
8	2.017	VV S	0.0263	7597.96973	0.00940	?
9	2.061	VV S	0.0402	1.15879e4	0.01433	?
10	2.105	VV S	0.0329	8449.00293	0.01045	?
11	2.154	VV S	0.0584	1.29885e4	0.01607	?
12	2.215	VV S	0.0436	9927.65039	0.01228	?
13	2.262	VV S	0.0289	6350.90137	0.00786	?
14	2.300	VV S	0.0305	7444.56738	0.00921	?
15	2.340	VV S	0.0324	7585.46729	0.00938	?
16	2.379	VV S	0.0202	3981.98291	0.00493	?
17	2.404	VV S	0.0286	5509.73438	0.00681	?
18	2.443	VV S	0.0286	5843.89844	0.00723	?
19	2.488	VV S	0.0279	6090.18164	0.00753	?
20	2.531	VV S	0.0578	8840.25391	0.01093	?
21	2.592	VV S	0.0298	5153.76465	0.00637	?
22	2.631	VV S	0.0459	6124.97021	0.00758	?
23	2.680	VV S	0.0323	2804.39331	0.00347	?
24	2.716	VV S	0.0585	3007.77612	0.00372	?
25	2.782	VBAS	0.0220	980.74945	0.00121	?
26	10.678	VV	0.0480	4.74857	5.873e-6	?
27	10.863	VV	0.0476	5.19992	6.432e-6	?
28	11.582	VB	0.0499	7.46119	9.229e-6	?

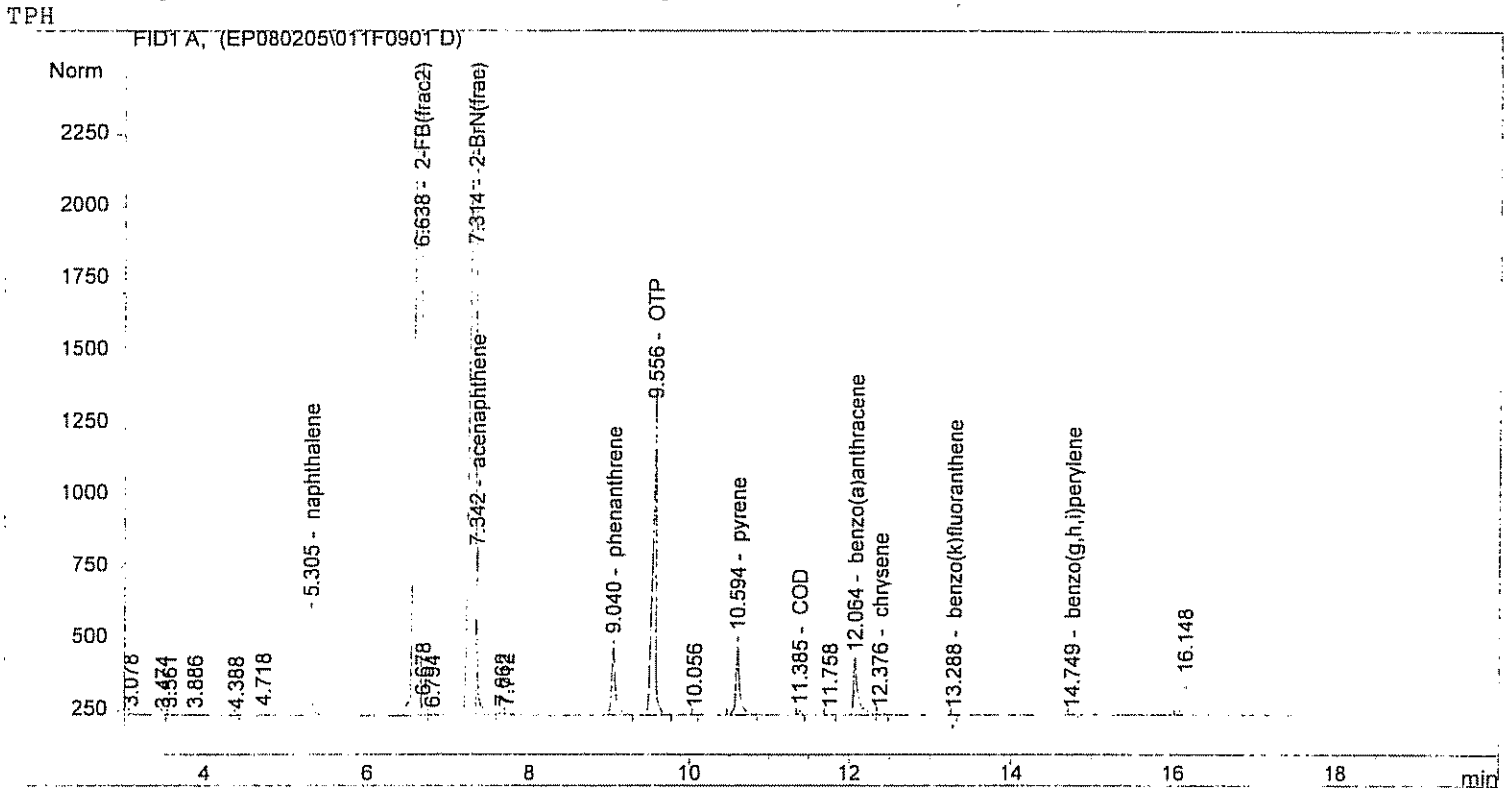
Uncalib. totals : 8.08428e7 99.9936

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

```
==========================================================================
Injection Date  : 8/2/2005 2:24:48 PM          Seq. Line :   9
Sample Name     : lcs3307 x1 R                  Location : Vial 11
Acq. Operator   : DCS                               Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.305	PB	0.0263	676.30310	0.00084	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.638	BV	0.0534	1.84819e4	0.02296	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.314	PV	0.0530	1.29525e4	0.01609	2-BrN(frac)
6	7.342	VB	0.0204	796.91113	0.00099	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.040	BB	0.0474	854.21277	0.00106	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.556	PB	0.0374	3089.72632	0.00384	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.594	BB	0.0423	842.04657	0.00105	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.385	BB	0.0360	37.04055	4.602e-5	COD
14	12.064	BB	0.0530	757.64612	0.00094	benzo(a)anthracene
15	12.376	BB	0.0539	20.84107	2.589e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.288	BB	0.0341	4.20963	5.230e-6	benzo(k)fluoranthene
18	13.614		0.0000	0.00000	0.00000	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.749	PB	0.0352	3.36271	4.178e-6	benzo(g,h,i)perylene

Totals : 3.85168e4 4.785e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.551	PV	0.0348	175.40717	0.00022	?
2	0.697	VV S	0.0307	7.84203e5	0.97428	?
3	1.843	VV S	0.9586	7.86001e7	97.65158	?
4	1.870	VV S	0.0193	9.32673e5	1.15874	?
5	1.959	VV S	0.0275	9589.64258	0.01191	?
6	2.021	VV S	0.0523	1.49115e4	0.01853	?
7	2.061	VV S	0.0265	7081.21436	0.00880	?
8	2.111	VV S	0.0681	1.59066e4	0.01976	?
9	2.170	VV S	0.0315	8767.27930	0.01089	?
10	2.218	VV S	0.0330	8193.19141	0.01018	?
11	2.267	VV S	0.0396	8873.49902	0.01102	?
12	2.309	VV S	0.0344	7671.52637	0.00953	?
13	2.345	VV S	0.0217	4198.89453	0.00522	?
14	2.372	VV S	0.0371	7051.68311	0.00876	?
15	2.431	VV S	0.0478	8742.15332	0.01086	?
16	2.501	VV S	0.0936	1.39233e4	0.01730	?
17	2.593	VV S	0.0427	7441.26563	0.00924	?
18	2.652	VV S	0.0463	5624.08545	0.00699	?
19	2.700	VV S	0.0425	3050.53955	0.00379	?
20	2.745	VV S	0.0403	2106.64844	0.00262	?
21	2.784	VB S	0.0190	802.45349	0.00100	?
22	2.819	BB T	0.0116	24.26043	3.014e-5	?
23	3.078	PB	0.0212	8.50106	1.056e-5	?
24	3.474	PB	0.0191	2.44651	3.040e-6	?
25	3.561	BB	0.0267	5.57153	6.922e-6	?
26	3.886	PB	0.0323	7.20789	8.955e-6	?
27	4.388	BB	0.0208	1.46061	1.815e-6	?
28	4.718	BB	0.0280	24.28758	3.017e-5	?
29	6.678	VB	0.0285	102.90604	0.00013	?
30	6.794	BB	0.0634	31.04955	3.858e-5	?
31	7.662	PV	0.0279	11.88237	1.476e-5	?
32	7.712	VB	0.0416	23.02665	2.861e-5	?
33	10.056	BP	0.0253	6.50165	8.078e-6	?
34	11.758	PB	0.0368	10.95621	1.361e-5	?
35	16.148	BB	0.0584	489.91165	0.00061	?

Uncalib. totals : 8.04518e7 99.9521

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\EP080205\012F1001.D
ɔerator : DCS
ıstrument : GC6
ımple Name : G161-2081-3L x1 ms K
ın Time Bar Code: 145972
:quired on : 2 Aug 05 2:51:44 PM
ɔport Created on: 3 Aug 2005 8:25:36 AM
ıst Recalib on : 27 Jul 2005 10:59:25 AM
ılticplier : 1.0000

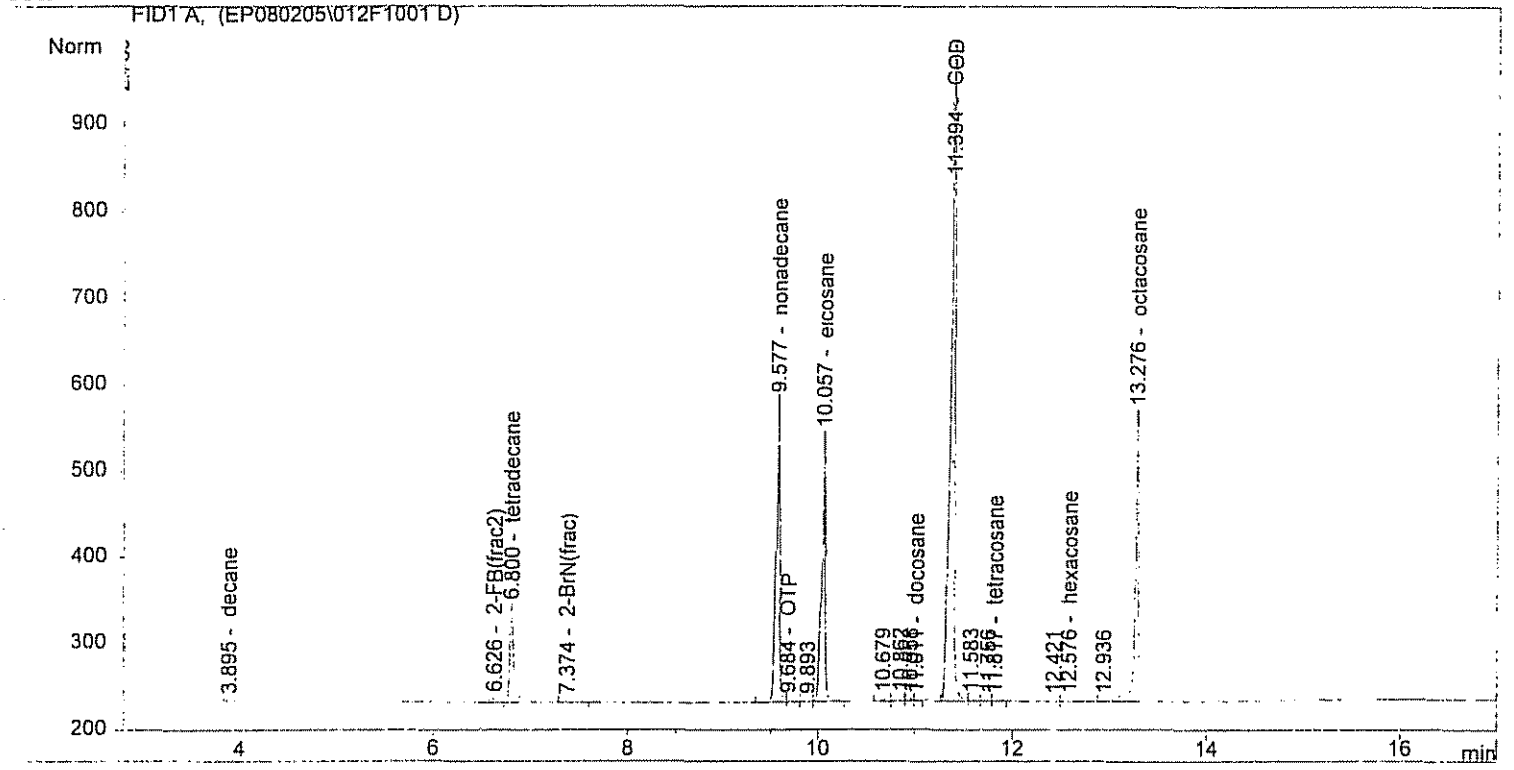
Page Number :
Vial Number : Vial 12
Injection Number : 1
Sequence Line : 10
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

91.2
12.49

g. 1 in C:\HPCHEM\1\DATA\EP080205\012F1001.D

ɜt Time	Area	Type	Width	Ref#	ng	Name
3.072	0.00000	XX	0.00	1	0.00000	nonane
3.895	2.80588	PB	0.03	2	3.440e-6	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.626	19.18117	PV	0.05	4	2.351e-5	2-FB(frac2)
6.800	315.68268	VB	0.04	5	0.00039	tetradecane
7.374	20.06252	VB	0.11	6	2.459e-5	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.577	886.94324	VV	0.03	9	0.00109	nonadecane
9.684	9.65718	VB	0.04	10	1.184e-5	OTP
10.057	763.09406	VB	0.03	11	0.00094	eicosane
11.011	3.84849	VB	0.04	12	4.718e-6	docosane
11.394	2711.53223	BV	0.03	13	0.00332	COD
11.817	4.86881	VB	0.05	14	5.968e-6	tetracosane
12.576	8.40048	VP	0.04	15	1.030e-5	hexacosane
13.276	743.22003	BB	0.03	16	0.00091	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.553	92.42463	PV	0.02	1	0.00011	* uncalibrated *
0.589	50.47112	VV	0.01	2	6.187e-5	* uncalibrated *
0.700	9.24581e5	VVS	0.03	3	1.13339	* uncalibrated *
1.837	7.96550e7	VVS	0.98	4	97.64415	* uncalibrated *
1.878	8.37562e5	VPS	0.01	5	1.02672	* uncalibrated *
1.954	3.12865e4	VVS	0.09	6	0.03835	* uncalibrated *
2.011	1.02812e4	VVS	0.03	7	0.01260	* uncalibrated *
2.051	7482.82422	VVS	0.02	8	0.00917	* uncalibrated *
2.082	6110.43115	VVS	0.02	9	0.00749	* uncalibrated *
2.105	6941.34229	VVS	0.02	10	0.00851	* uncalibrated *
2.149	8997.46191	VVS	0.03	11	0.01103	* uncalibrated *
2.183	8408.25391	VVS	0.03	12	0.01031	* uncalibrated *
2.231	1.75663e4	VVS	0.09	13	0.02153	* uncalibrated *
2.330	7085.10010	VVS	0.03	14	0.00869	* uncalibrated *
2.378	6734.15186	VVS	0.02	15	0.00825	* uncalibrated *
2.418	6086.16943	VVS	0.03	16	0.00746	* uncalibrated *
2.454	5649.52930	VVS	0.03	17	0.00693	* uncalibrated *
2.486	3991.07007	VVS	0.02	18	0.00489	* uncalibrated *
2.548	9206.22168	VVS	0.06	19	0.01129	* uncalibrated *
2.590	5853.29785	VVS	0.02	20	0.00718	* uncalibrated *
2.633	5491.94971	VVS	0.03	21	0.00673	* uncalibrated *
2.678	2655.85986	VVS	0.03	22	0.00326	* uncalibrated *
2.716	2089.64917	VVS	0.03	23	0.00256	* uncalibrated *
2.769	2063.77124	VBAS	0.04	24	0.00253	* uncalibrated *
9.893	8.24976	BV	0.05	25	1.011e-5	* uncalibrated *

```
==========================================================================
Injection Date  : 8/2/2005 2:51:44 PM          Seq. Line :  10
Sample Name     : 145972 x1 ms K                Location : Vial 12
Acq. Operator   : DCS                              Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|--------------------
   1   3.072         0.0000    0.00000  0.00000 nonane
   2   3.895 PB      0.0325    2.80588 3.440e-6 decane
   3   5.541         0.0000    0.00000  0.00000 dodecane
   4   6.626 PV      0.0518   19.18117 2.351e-5 2-FB(frac2)
   5   6.800 VB      0.0439  315.68268  0.00039 tetradecane
   6   7.374 VB      0.1140   20.06252 2.459e-5 2-BrN(frac)
   7   8.095         0.0000    0.00000  0.00000 hexadecane
   8   9.172         0.0000    0.00000  0.00000 octadecane
   9   9.577 VV      0.0344  886.94324  0.00109 nonadecane
  10   9.684 VB      0.0447    9.65718 1.184e-5 OTP
  11  10.057 VB      0.0346  763.09406  0.00094 eicosane
  12  11.011 VB      0.0435    3.84849 4.718e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.394	BV	0.0313	2711.53223	0.00332	COD
14	11.817	VB	0.0572	4.86881	5.968e-6	tetracosane
15	12.576	VP	0.0471	8.40048	1.030e-5	hexacosane
16	13.276	BB	0.0318	743.22003	0.00091	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5489.29676 6.729e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.553	PV	0.0264	92.42463	0.00011	?
2	0.589	VV	0.0161	50.47112	6.187e-5	?
3	0.700	VV S	0.0360	9.24581e5	1.13339	?
4	1.837	VV S	0.9868	7.96550e7	97.64415	?
5	1.878	VP S	0.0182	8.37562e5	1.02672	?
6	1.954	VV S	0.0943	3.12865e4	0.03835	?
7	2.011	VV S	0.0345	1.02812e4	0.01260	?
8	2.051	VV S	0.0281	7482.82422	0.00917	?
9	2.082	VV S	0.0240	6110.43115	0.00749	?
10	2.105	VV S	0.0281	6941.34229	0.00851	?
11	2.149	VV S	0.0317	8997.46191	0.01103	?
12	2.183	VV S	0.0373	8408.25391	0.01031	?
13	2.231	VV S	0.0930	1.75663e4	0.02153	?
14	2.330	VV S	0.0315	7085.10010	0.00869	?
15	2.378	VV S	0.0281	6734.15186	0.00825	?
16	2.418	VV S	0.0314	6086.16943	0.00746	?
17	2.454	VV S	0.0320	5649.52930	0.00693	?
18	2.486	VV S	0.0216	3991.07007	0.00489	?
19	2.548	VV S	0.0608	9206.22168	0.01129	?
20	2.590	VV S	0.0288	5853.29785	0.00718	?
21	2.633	VV S	0.0355	5491.94971	0.00673	?
22	2.678	VV S	0.0301	2655.85986	0.00326	?
23	2.716	VV S	0.0319	2089.64917	0.00256	?
24	2.769	VBAS	0.0444	2063.77124	0.00253	?
25	9.893	BV	0.0569	8.24976	1.011e-5	?
26	10.679	VV	0.0490	11.96296	1.466e-5	?
27	10.862	VV	0.0526	13.98979	1.715e-5	?
28	10.958	VV	0.0455	9.19459	1.127e-5	?
29	11.583	VV	0.0490	11.31100	1.387e-5	?
30	11.756	VV	0.0564	7.24409	8.880e-6	?
31	12.421	BV	0.0525	5.91581	7.252e-6	?
32	12.936	BB	0.0308	3.74325	4.589e-6	?

Uncalib. totals : 8.15713e7 99.9933

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

External Standard Report

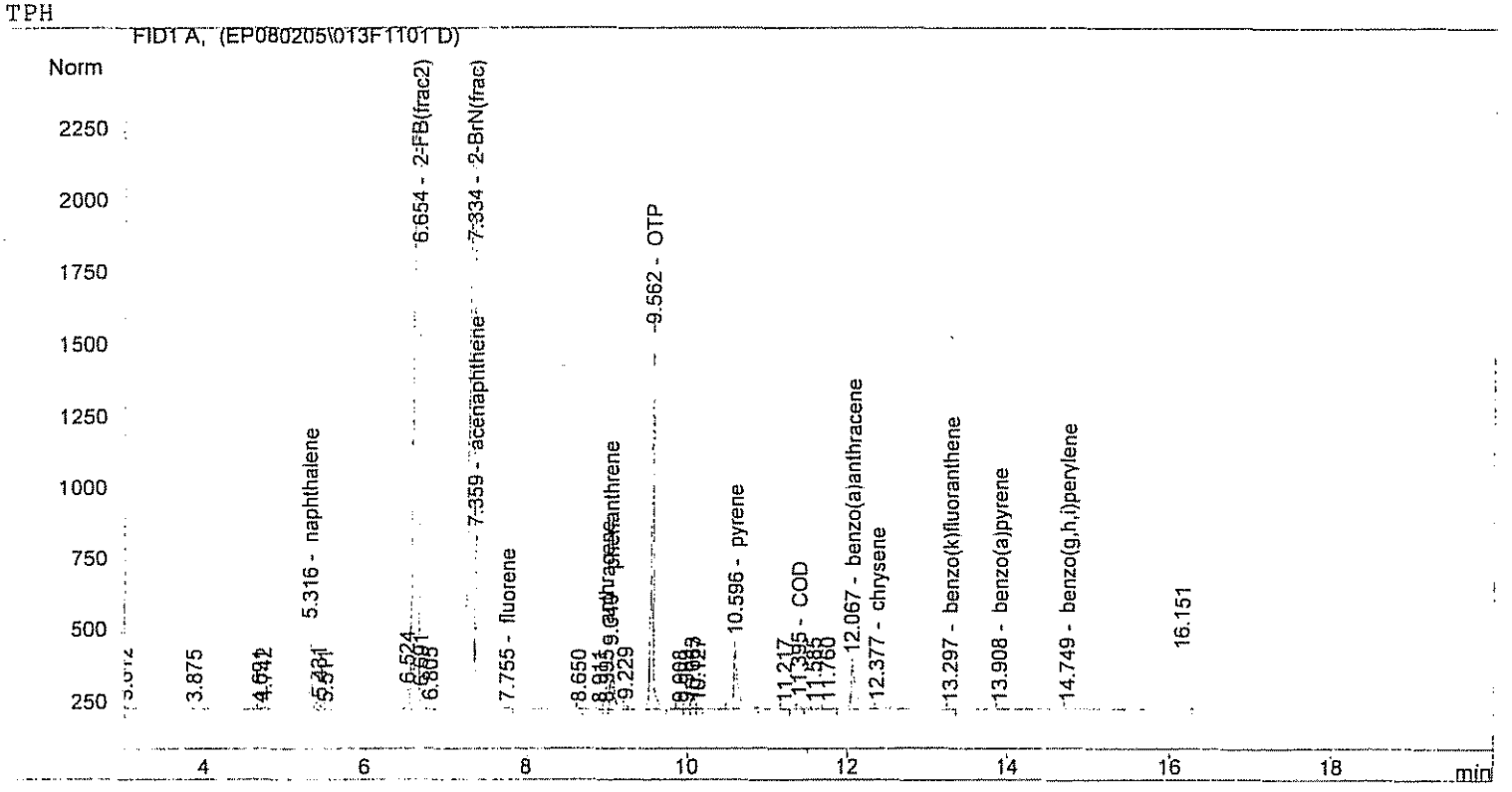
ata File Name : C:\HPCHEM\1\DATA\EP080205\013F1101.D
perator : DCS
nstrument : GC6
ample Name : G161-2081-3L x1 ms R
un Time Bar Code: 145972
cquired on : 2 Aug 05 3:18:28 PM
eport Created on: 3 Aug 2005 8:25:43 AM
ast Recalib on : 14 Jul 2005 2:22:40 PM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 13
Injection Number : 1
Sequence Line : 11
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP080205\013F1101.D

et Time	Area	Type	Width	Ref#	ng	Name
5.316	499.46591	BV	0.02	1	0.00076	naphthalene
6.141	0.00000	XX	0.00	2	0.00000	2-methylnaphthalene
6.654	1.52386e4	VV	0.04	3	0.02318	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.334	1.06288e4	BV	0.04	5	0.01617	2-BrN(frac)
7.359	880.81805	VB	0.01	6	0.00134	acenaphthene
7.755	6.91429	PB	0.03	7	1.052e-5	fluorene
8.995	10.27618	VV	0.02	8	1.563e-5	anthracene
9.049	671.54089	VV	0.04	9	0.00102	phenanthrene
9.562	2571.45410	PB	0.02	10	0.00391	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.596	759.51440	BB	0.04	12	0.00116	pyrene
11.395	45.49538	BB	0.03	13	6.922e-5	COD
12.067	708.59277	PV	0.05	14	0.00108	benzo(a)anthracene
12.377	30.09002	VP	0.05	15	4.578e-5	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.297	7.35312	BP	0.03	17	1.119e-5	benzo(k)fluoranthene
13.908	6.14455	BB	0.03	18	9.348e-6	benzo(a)pyrene
14.607	0.00000	XX	0.00	19	0.00000	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.749	3.02557	BP	0.03	21	4.603e-6	benzo(g,h,i)perylene
1.532	6.14364e7	PVS	0.78	1	93.46813	* uncalibrated *
1.627	1.00613e6	VVS	0.02	2	1.53071	* uncalibrated *
1.694	1.68907e5	VVS	0.02	3	0.25697	* uncalibrated *
1.729	2.04722e5	VVS	0.03	4	0.31146	* uncalibrated *
1.778	1.56866e5	VVS	0.02	5	0.23865	* uncalibrated *
1.827	2.57297e5	VVS	0.05	6	0.39145	* uncalibrated *
1.891	1.99283e5	VVS	0.04	7	0.30319	* uncalibrated *
1.929	1.69319e5	VVS	0.03	8	0.25760	* uncalibrated *
1.983	1.62049e5	VVS	0.03	9	0.24654	* uncalibrated *
2.028	1.64876e5	VVS	0.03	10	0.25084	* uncalibrated *
2.080	1.34368e5	VVS	0.03	11	0.20443	* uncalibrated *
2.126	1.93706e5	VVS	0.05	12	0.29470	* uncalibrated *
2.190	1.56278e5	VVS	0.03	13	0.23776	* uncalibrated *
2.230	1.36966e5	VVS	0.03	14	0.20838	* uncalibrated *
2.277	1.75717e5	VVS	0.05	15	0.26733	* uncalibrated *
2.341	1.20051e5	VVS	0.02	16	0.18264	* uncalibrated *
2.385	1.09512e5	VVS	0.03	17	0.16661	* uncalibrated *
2.421	1.24472e5	VVS	0.04	18	0.18937	* uncalibrated *
2.484	1.43546e5	VVS	0.03	19	0.21839	* uncalibrated *
2.527	9.99100e4	VVS	0.03	20	0.15200	* uncalibrated *
2.572	1.09496e5	VVS	0.02	21	0.16658	* uncalibrated *
2.612	7.93554e4	VVS	0.02	22	0.12073	* uncalibrated *

```
==========================================================================
Injection Date  : 8/2/2005 3:18:28 PM          Seq. Line :  11
Sample Name     : 145972 x1 ms R                Location : Vial 13
Acq. Operator   : DCS                              Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.316	BV	0.0258	499.46591	0.00076	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.654	VV	0.0407	1.52386e4	0.02318	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.334	BV	0.0415	1.06288e4	0.01617	2-BrN(frac)
6	7.359	VB	0.0196	880.81805	0.00134	acenaphthene
7	7.755	PB	0.0345	6.91429	1.052e-5	fluorene
8	8.995	VV	0.0279	10.27618	1.563e-5	anthracene
9	9.049	VV	0.0472	671.54089	0.00102	phenanthrene
10	9.562	PB	0.0286	2571.45410	0.00391	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.596	BB	0.0452	759.51440	0.00116	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.395	BB	0.0328	45.49538	6.922e-5	COD
14	12.067	PV	0.0580	708.59277	0.00108	benzo(a)anthracene
15	12.377	VP	0.0532	30.09002	4.578e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.297	BP	0.0397	7.35312	1.119e-5	benzo(k)fluoranthene
18	13.908	BB	0.0374	6.14455	9.348e-6	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.749	BP	0.0311	3.02557	4.603e-6	benzo(g,h,i)perylene

Totals : 3.20680e4 4.879e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.532	PV S	0.7890	6.14364e7	93.46813	?
2	1.627	VV S	0.0203	1.00613e6	1.53071	?
3	1.694	VV S	0.0280	1.68907e5	0.25697	?
4	1.729	VV S	0.0331	2.04722e5	0.31146	?
5	1.778	VV S	0.0241	1.56866e5	0.23865	?
6	1.827	VV S	0.0521	2.57297e5	0.39145	?
7	1.891	VV S	0.0427	1.99283e5	0.30319	?
8	1.929	VV S	0.0352	1.69319e5	0.25760	?
9	1.983	VV S	0.0300	1.62049e5	0.24654	?
10	2.028	VV S	0.0335	1.64876e5	0.25084	?
11	2.080	VV S	0.0310	1.34368e5	0.20443	?
12	2.126	VV S	0.0526	1.93706e5	0.29470	?
13	2.190	VV S	0.0397	1.56278e5	0.23776	?
14	2.230	VV S	0.0359	1.36966e5	0.20838	?
15	2.277	VV S	0.0567	1.75717e5	0.26733	?
16	2.341	VV S	0.0285	1.20051e5	0.18264	?
17	2.385	VV S	0.0305	1.09512e5	0.16661	?
18	2.421	VV S	0.0430	1.24472e5	0.18937	?
19	2.484	VV S	0.0347	1.43546e5	0.21839	?
20	2.527	VV S	0.0369	9.99100e4	0.15200	?
21	2.572	VV S	0.0294	1.09496e5	0.16658	?
22	2.612	VV S	0.0233	7.93554e4	0.12073	?
23	2.636	VV S	0.0205	5.65616e4	0.08605	?
24	2.667	VV S	0.0316	5.61739e4	0.08546	?
25	2.710	VV S	0.0385	4.14400e4	0.06305	?
26	2.756	VV S	0.0314	2.60734e4	0.03967	?
27	2.787	VB S	0.0147	7088.78857	0.01078	?
28	3.012	PP	0.0201	8.39592	1.277e-5	?
29	3.875	BB	0.0233	4.46860	6.798e-6	?
30	4.691	BV	0.0276	3.64859	5.551e-6	?
31	4.742	VB	0.0306	18.70215	2.845e-5	?
32	5.431	VV	0.0423	54.69911	8.322e-5	?
33	5.511	VB	0.0375	14.18359	2.158e-5	?
34	6.524	BV	0.0455	200.83746	0.00031	?
35	6.691	VB	0.0209	84.36491	0.00013	?
36	6.805	BB	0.0327	21.82957	3.321e-5	?
37	8.650	BB	0.0311	4.62726	7.040e-6	?
38	8.911	BP	0.0281	2.65279	4.036e-6	?
39	9.229	VB	0.0492	47.36347	7.206e-5	?
40	9.908	PV	0.0378	4.98959	7.591e-6	?
41	9.983	VV	0.0343	4.49168	6.834e-6	?
42	10.063	VV	0.0252	10.51828	1.600e-5	?
43	10.127	VB	0.0314	4.43503	6.747e-6	?
44	11.217	BP	0.0185	1.46725	2.232e-6	?
45	11.585	PB	0.0360	8.04830	1.224e-5	?
46	11.760	PB	0.0431	14.98106	2.279e-5	?
47	16.151	BB	0.0517	641.09613	0.00098	?

Uncalib. totals : 6.56977e7 99.9512

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

External Standard Report

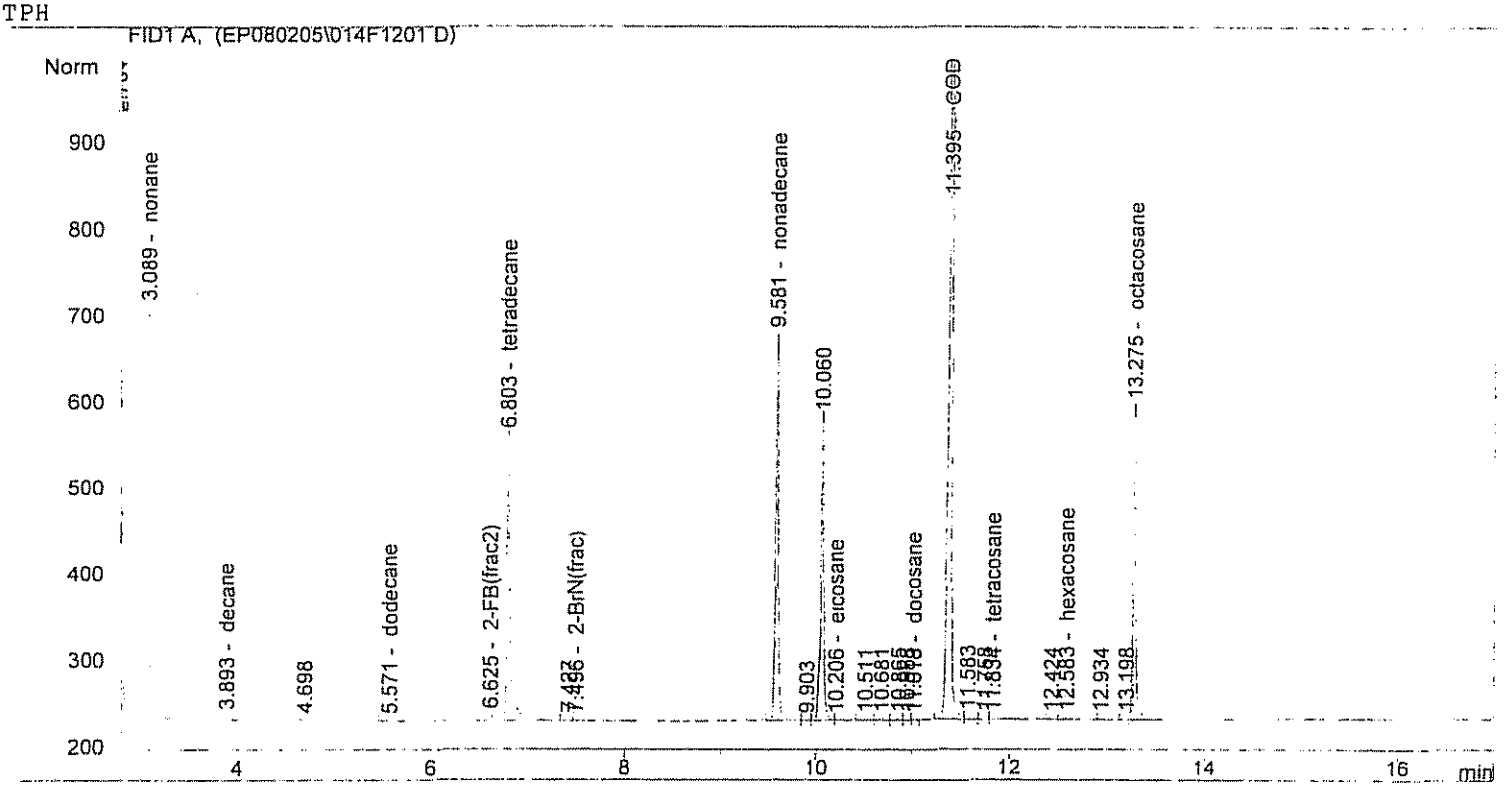
ata File Name : C:\HPCHEM\1\DATA\EP080205\014F1201.D
perator : DCS
nstrument : GC6
ample Name : G161-2081-3M x1 ms K
un Time Bar Code: 145973
cquired on : 2 Aug 05 3:45:33 PM
eport Created on: 3 Aug 2005 8:25:51 AM
ast Recalib on : 27 Jul 2005 10:59:25 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 14
Injection Number : 1
Sequence Line : 12
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP080205\014F1201.D

et Time	Area	Type	Width	Ref#	ng	Name
3.089	501.29697	VB	0.01	1	0.00060	nonane
3.893	10.25429	VB	0.03	2	1.229e-5	decane
5.571	9.22213	VB	0.08	3	1.105e-5	dodecane
6.625	20.01760	VV	0.03	4	2.399e-5	2-FB(frac2)
6.803	753.65155	VP	0.03	5	0.00090	tetradecane
7.496	12.26942	VP	0.06	6	1.470e-5	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.570	0.00000	XX	0.00	9	0.00000	OTP
9.581	878.81757	VB	0.02	10	0.00105	nonadecane
10.206	3.43209	VP	0.03	11	4.113e-6	eicosane
11.018	3.96688	VV	0.04	12	4.754e-6	docosane
11.395	2692.65283	BV	0.02	13	0.00323	COD
11.834	12.15717	VB	0.08	14	1.457e-5	tetracosane
12.583	7.92832	VB	0.03	15	9.502e-6	hexacosane
13.275	703.28497	VV	0.02	16	0.00084	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.525	1.49068	PP	0.01	1	1.787e-6	* uncalibrated *
1.798	8.21000e7	VVS	0.71	2	98.39734	* uncalibrated *
1.884	9.31872e5	VVS	0.01	3	1.11685	* uncalibrated *
1.953	2.91001e4	VVS	0.02	4	0.03488	* uncalibrated *
1.986	1.54102e4	VVS	0.02	5	0.01847	* uncalibrated *
2.012	2.22391e4	VVS	0.02	6	0.02665	* uncalibrated *
2.056	2.83177e4	VVS	0.03	7	0.03394	* uncalibrated *
2.099	3.34256e4	VVS	0.04	8	0.04006	* uncalibrated *
2.173	4.32670e4	VVS	0.06	9	0.05186	* uncalibrated *
2.222	1.97411e4	VVS	0.02	10	0.02366	* uncalibrated *
2.250	1.26550e4	VVS	0.02	11	0.01517	* uncalibrated *
2.277	1.85779e4	VVS	0.03	12	0.02227	* uncalibrated *
2.328	3.48260e4	VVS	0.06	13	0.04174	* uncalibrated *
2.395	2.11728e4	VVS	0.03	14	0.02538	* uncalibrated *
2.435	1.87763e4	VVS	0.03	15	0.02250	* uncalibrated *
2.493	2.52604e4	VVS	0.04	16	0.03027	* uncalibrated *
2.530	1.05276e4	VVS	0.02	17	0.01262	* uncalibrated *
2.570	2.14008e4	VVS	0.04	18	0.02565	* uncalibrated *
2.625	1.71061e4	VVS	0.03	19	0.02050	* uncalibrated *
2.656	1.01982e4	VVS	0.03	20	0.01222	* uncalibrated *
2.699	8113.99512	VVS	0.03	21	0.00972	* uncalibrated *
2.749	6028.66016	VVS	0.03	22	0.00723	* uncalibrated *
2.781	2745.90552	VBAS	0.02	23	0.00329	* uncalibrated *
4.698	5.22047	PV	0.04	24	6.257e-6	* uncalibrated *
7.427	10.91217	PV	0.05	25	1.308e-5	* uncalibrated *

```
==========================================================================
Injection Date  : 8/2/2005 3:45:33 PM          Seq. Line :  12
Sample Name     : 145973 x1 ms K                Location : Vial 14
Acq. Operator   : DCS                                Inj :  1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|----------------------
   1    3.089 VB     0.0163  501.29697  0.00060 nonane
   2    3.893 VB     0.0316   10.25429 1.229e-5 decane
   3    5.571 VB     0.0888    9.22213 1.105e-5 dodecane
   4    6.625 VV     0.0390   20.01760 2.399e-5 2-FB(frac2)
   5    6.803 VP     0.0325  753.65155  0.00090 tetradecane
   6    7.496 VP     0.0662   12.26942 1.470e-5 2-BrN(frac)
   7    8.095        0.0000    0.00000  0.00000 hexadecane
   8    9.172        0.0000    0.00000  0.00000 octadecane
   9    9.570        0.0000    0.00000  0.00000 OTP
  10    9.581 VB     0.0298  878.81757  0.00105 nonadecane
  11   10.206 VP     0.0331    3.43209 4.113e-6 eicosane
  12   11.018 VV     0.0452    3.96688 4.754e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.395	BV	0.0287	2692.65283	0.00323	COD
14	11.834	VB	0.0856	12.15717	1.457e-5	tetracosane
15	12.583	VB	0.0383	7.92832	9.502e-6	hexacosane
16	13.275	VV	0.0284	703.28497	0.00084	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5608.95177 6.722e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.525	PP	0.0174	1.49068	1.787e-6	?
2	1.798	VV S	0.7141	8.21000e7	98.39734	?
3	1.884	VV S	0.0186	9.31872e5	1.11685	?
4	1.953	VV S	0.0272	2.91001e4	0.03488	?
5	1.986	VV S	0.0200	1.54102e4	0.01847	?
6	2.012	VV S	0.0266	2.22391e4	0.02665	?
7	2.056	VV S	0.0330	2.83177e4	0.03394	?
8	2.099	VV S	0.0423	3.34256e4	0.04006	?
9	2.173	VV S	0.0659	4.32670e4	0.05186	?
10	2.222	VV S	0.0277	1.97411e4	0.02366	?
11	2.250	VV S	0.0234	1.26550e4	0.01517	?
12	2.277	VV S	0.0316	1.85779e4	0.02227	?
13	2.328	VV S	0.0627	3.48260e4	0.04174	?
14	2.395	VV S	0.0351	2.11728e4	0.02538	?
15	2.435	VV S	0.0317	1.87763e4	0.02250	?
16	2.493	VV S	0.0464	2.52604e4	0.03027	?
17	2.530	VV S	0.0216	1.05276e4	0.01262	?
18	2.570	VV S	0.0451	2.14008e4	0.02565	?
19	2.625	VV S	0.0388	1.71061e4	0.02050	?
20	2.656	VV S	0.0316	1.01982e4	0.01222	?
21	2.699	VV S	0.0317	8113.99512	0.00972	?
22	2.749	VV S	0.0328	6028.66016	0.00723	?
23	2.781	VBAS	0.0201	2745.90552	0.00329	?
24	4.698	PV	0.0450	5.22047	6.257e-6	?
25	7.427	PV	0.0577	10.91217	1.308e-5	?
26	9.903	BV	0.0542	4.51343	5.409e-6	?
27	10.060	VV	0.0304	735.54260	0.00088	?
28	10.511	PV	0.0587	9.11012	1.092e-5	?
29	10.681	VV	0.0524	9.76379	1.170e-5	?
30	10.865	VV	0.0500	9.78182	1.172e-5	?
31	10.958	VV	0.0431	7.81876	9.371e-6	?
32	11.583	VV	0.0608	18.81091	2.254e-5	?
33	11.758	VV	0.0572	10.70777	1.283e-5	?
34	12.424	BV	0.0434	7.53538	9.031e-6	?
35	12.934	PP	0.0257	3.95885	4.745e-6	?
36	13.198	VV	0.0372	7.09492	8.503e-6	?

Uncalib. totals : 8.34316e7 99.9933

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

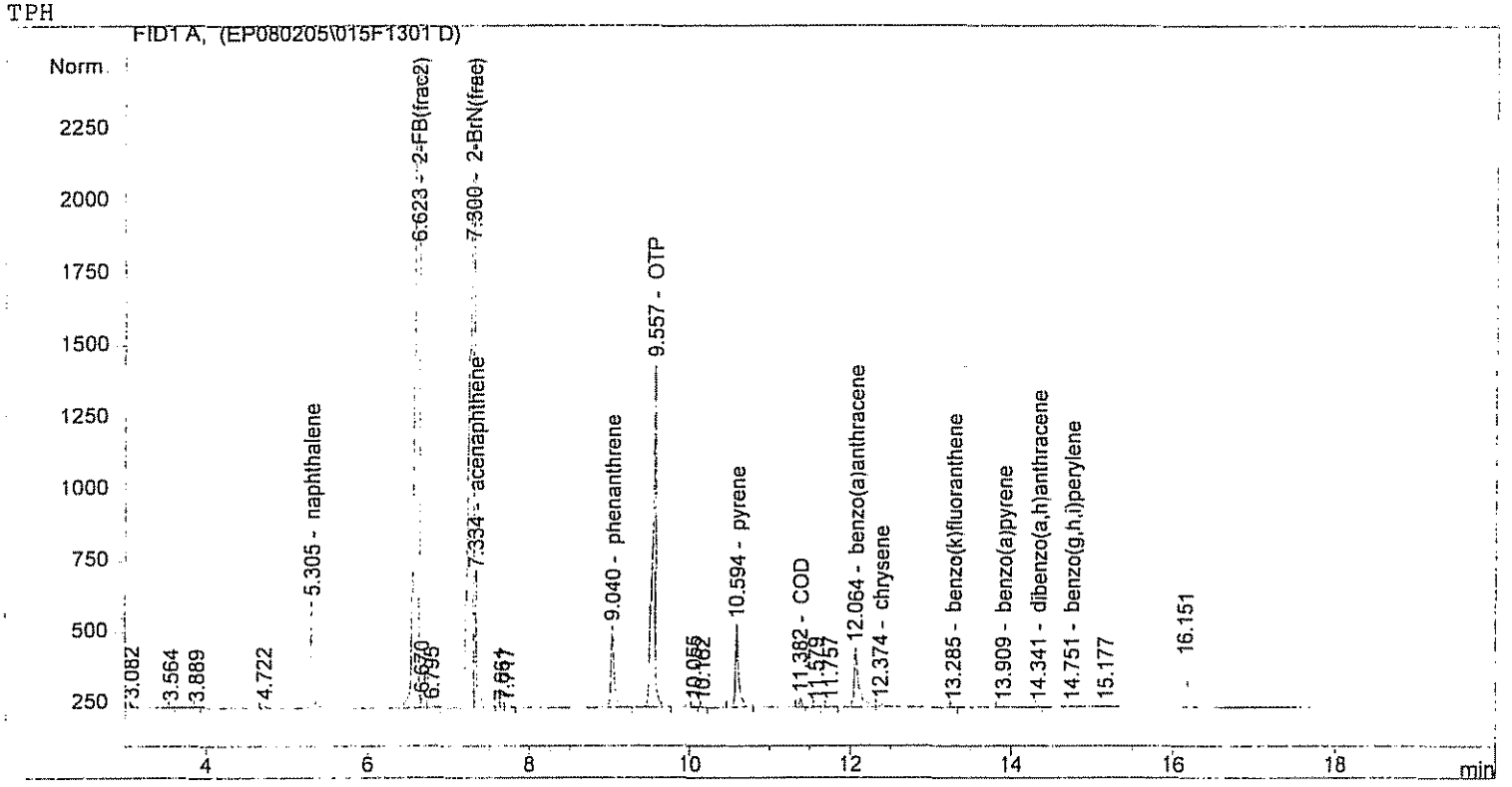
ata File Name : C:\HPCHEM\1\DATA\EP080205\015F1301.D
perator : DCS
nstrument : GC6
ample Name : G161-2081-3M x1 ms R
un Time Bar Code: 145973
cquired on : 2 Aug 05 4:12:03 PM
eport Created on: 3 Aug 2005 8:25:59 AM
ast Recalib on : 14 Jul 2005 2:22:40 PM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 15
Injection Number : 1
Sequence Line : 13
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP080205\015F1301.D

et Time	Area	Type	Width	Ref#	ng	Name
5.305	633.63684	PB	0.02	1	0.00077	naphthalene
6.141	0.00000	XX	0.00	2	0.00000	2-methylnaphthalene
6.623	1.14588e4	BV	0.04	3	0.01386	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.300	7966.46875	PV	0.04	5	0.00963	2-BrN(frac)
7.334	885.27850	VB	0.02	6	0.00107	acenaphthene
7.920	0.00000	XX	0.00	7	0.00000	fluorene
9.040	862.54053	BB	0.04	8	0.00104	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.557	3185.49316	BB	0.03	10	0.00385	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.594	838.81012	BB	0.04	12	0.00101	pyrene
11.382	70.64105	BB	0.03	13	8.542e-5	COD
12.064	777.49762	BV	0.05	14	0.00094	benzo(a)anthracene
12.374	35.85680	VP	0.05	15	4.336e-5	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.285	9.93191	BB	0.03	17	1.201e-5	benzo(k)fluoranthene
13.909	9.64900	PP	0.05	18	1.167e-5	benzo(a)pyrene
14.341	4.30209	BP	0.03	19	5.202e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.751	4.17678	BB	0.03	21	5.051e-6	benzo(g,h,i)perylene
0.541	74.49479	PV	0.02	1	9.009e-5	* uncalibrated *
0.590	52.44724	VV	0.02	2	6.342e-5	* uncalibrated *
1.785	8.16206e7	VVS	1.00	3	98.70220	* uncalibrated *
1.878	8.59187e5	VVS	0.01	4	1.03900	* uncalibrated *
1.933	2.91192e4	BVT	0.06	5	0.03521	* uncalibrated *
1.982	9636.54688	VVS	0.02	6	0.01165	* uncalibrated *
2.007	5235.66650	VVS	0.01	7	0.00633	* uncalibrated *
2.039	1.53406e4	VVS	0.04	8	0.01855	* uncalibrated *
2.112	1.81706e4	VVS	0.06	9	0.02197	* uncalibrated *
2.159	6990.94043	VVS	0.02	10	0.00845	* uncalibrated *
2.197	1.06404e4	VVS	0.03	11	0.01287	* uncalibrated *
2.242	9610.95898	VVS	0.03	12	0.01162	* uncalibrated *
2.292	1.14555e4	VVS	0.04	13	0.01385	* uncalibrated *
2.343	1.02537e4	VVS	0.04	14	0.01240	* uncalibrated *
2.408	1.22853e4	VVS	0.04	15	0.01486	* uncalibrated *
2.462	8749.66016	VVS	0.03	16	0.01058	* uncalibrated *
2.498	6538.67041	VVS	0.03	17	0.00791	* uncalibrated *
2.540	9053.62793	VVS	0.04	18	0.01095	* uncalibrated *
2.599	8515.46387	VVS	0.03	19	0.01030	* uncalibrated *
2.633	3574.52930	VVS	0.02	20	0.00432	* uncalibrated *
2.656	7503.34326	VVS	0.06	21	0.00907	* uncalibrated *
2.754	3610.27905	VBS	0.04	22	0.00437	* uncalibrated *

```
==========================================================================
Injection Date  : 8/2/2005 4:12:03 PM          Seq. Line :  13
Sample Name     : 145973 x1 ms R                Location : Vial 15
Acq. Operator   : DCS                                Inj :  1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080205.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.305	PB	0.0258	633.63684	0.00077	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.623	BV	0.0479	1.14588e4	0.01386	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.300	PV	0.0422	7966.46875	0.00963	2-BrN(frac)
6	7.334	VB	0.0260	885.27850	0.00107	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.040	BB	0.0436	862.54053	0.00104	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.557	BB	0.0369	3185.49316	0.00385	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.594	BB	0.0407	838.81012	0.00101	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.382	BB	0.0343	70.64105	8.542e-5	COD
14	12.064	BV	0.0520	777.49762	0.00094	benzo(a)anthracene
15	12.374	VP	0.0529	35.85680	4.336e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.285	BB	0.0354	9.93191	1.201e-5	benzo(k)fluoranthene
18	13.909	PP	0.0532	9.64900	1.167e-5	benzo(a)pyrene
19	14.341	BP	0.0348	4.30209	5.202e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.751	BB	0.0323	4.17678	5.051e-6	benzo(g,h,i)perylene

Totals : 2.67430e4 3.234e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.541	PV	0.0228	74.49479	9.009e-5	?
2	0.590	VV	0.0244	52.44724	6.342e-5	?
3	1.785	VV S	1.0096	8.16206e7	98.70220	?
4	1.878	VV S	0.0185	8.59187e5	1.03900	?
5	1.933	BV T	0.0645	2.91192e4	0.03521	?
6	1.982	VV S	0.0274	9636.54688	0.01165	?
7	2.007	VV S	0.0184	5235.66650	0.00633	?
8	2.039	VV S	0.0425	1.53406e4	0.01855	?
9	2.112	VV S	0.0683	1.81706e4	0.02197	?
10	2.159	VV S	0.0256	6990.94043	0.00845	?
11	2.197	VV S	0.0365	1.06404e4	0.01287	?
12	2.242	VV S	0.0355	9610.95898	0.01162	?
13	2.292	VV S	0.0498	1.14555e4	0.01385	?
14	2.343	VV S	0.0440	1.02537e4	0.01240	?
15	2.408	VV S	0.0486	1.22853e4	0.01486	?
16	2.462	VV S	0.0328	8749.66016	0.01058	?
17	2.498	VV S	0.0320	6538.67041	0.00791	?
18	2.540	VV S	0.0400	9053.62793	0.01095	?
19	2.599	VV S	0.0378	8515.46387	0.01030	?
20	2.633	VV S	0.0206	3574.52930	0.00432	?
21	2.656	VV S	0.0609	7503.34326	0.00907	?
22	2.754	VB S	0.0439	3610.27905	0.00437	?
23	3.082	PB	0.0201	12.70118	1.536e-5	?
24	3.564	PB	0.0272	4.08784	4.943e-6	?
25	3.889	PB	0.0326	6.40077	7.740e-6	?
26	4.722	BB	0.0330	22.70448	2.746e-5	?
27	6.670	VB	0.0296	67.65014	8.181e-5	?
28	6.795	BB	0.0549	39.79498	4.812e-5	?
29	7.661	PV	0.0237	4.59676	5.559e-6	?
30	7.717	VP	0.0478	16.65627	2.014e-5	?
31	10.055	BP	0.0282	14.08134	1.703e-5	?
32	10.162	PB	0.0340	3.40092	4.113e-6	?
33	11.579	PB	0.0276	4.03780	4.883e-6	?
34	11.757	PP	0.0371	13.93476	1.685e-5	?
35	15.177	BB	0.0460	4.62541	5.593e-6	?
36	16.151	BB	0.0596	642.20990	0.00078	?

Uncalib. totals : 8.26670e7 99.9677

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

EPH Prep, Standard, Run Logs

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep072805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	7/28/05 8:37					DCS	
002F0201.D	R 20 ccal	7/28/05 9:04					DCS	
003F0101.D	pb3307	7/28/05 10:24					DCS	
004F0201.D	G118-391-1G x1 T	7/28/05 10:50	cid= 145964		✓		DCS	
005F0301.D	G118-391-2G x1 T	7/28/05 11:17	cid= 145965				DCS	
006F0401.D	G118-391-3G x1 T	7/28/05 11:45	cid= 145966				DCS	
007F0501.D	G118-391-4G x1 T	7/28/05 12:12	cid= 145967		✓		DCS	
008F0601.D	G118-391-5G x1 T	7/28/05 12:38	cid= 145968		xs⁻⁰, x10		DCS	CV
009F0701.D	G161-2081-1I x1 T	7/28/05 13:05	cid= 145969		✓		DCS	
010F0801.D	G161-2081-2I x1 T	7/28/05 13:32	cid= 145970		x1		DCS	CV
011F0901.D	G161-2081-3K x1 T	7/28/05 13:59	cid= 145971		✓		DCS	
012F1001.D	G161-2082-1I x1 T	7/28/05 14:26	cid= 145974				DCS	
013F1101.D	G161-2082-2I x1 T	7/28/05 14:54	cid= 145975				DCS	
014F1201.D	G161-2082-3I x1 T	7/28/05 15:21	cid= 145976				DCS	
015F1301.D	G161-2082-3J x1 T dup	7/28/05 15:48	cid= 145977		✓		DCS	
016F1401.D	G161-2082-4I x1 T	7/28/05 16:15	cid= 145978		✓		DCS	
017F1501.D	G211-1838-1H x1 T	7/28/05 16:43	cid= 145979		x1		DCS	CV
018F1601.D	K 20 ccal	7/28/05 17:09					DCS	
019F1701.D	R 20 ccal	7/28/05 17:36					DCS	

Analyst: _____ Page Number: _____

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7M	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/05	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Internal Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH2Cl2		6/29/06	6/29/05	DC
D	ECD03-R6O	8/25/05	EDB Std	17.5mL	50mL	200ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400mL	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DC
F	ECD03 W12Q	↓	Frac	400mL	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~W17Q~~	↓	EPH Surr	~~2mL~~ 1mL	↓	400ug/mL	↓	↓	↓	↓	↓	↓
H	SV03-R7T	7/21/06	1254 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10uL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10uL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400uL	10mL	200ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500uL	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50uL	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	~~ECD03~~ R6U	1/24/06	Herb ICAL Std	50uL	25mL	200ug/mL	400 ug/L	Hexane		12/05	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	2000ug/mL	4000 ug/L	↓		↓	↓	↓
Q	ECD03-R4U	1/19/06	↓	↓	↓	2000ug/mL	40000 ug/L	↓		↓	↓	↓
R	ECD03-R6R	12/29/05	↓	↓	↓	200 ug/mL	400 ug/L	↓		↓	↓	↓
S	ECD03-R7Q	4/21/06	Herb CCAL Std	50uL	25mL	200ug/mL	400ug/L	Hexane		4/06	8/15/05	CP
T	ECD03-R7V	8/4/06	8082/8081 IS	500uL	10mL	200ug/mL	10ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20uL	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	–	—	8080 Surr	10uL	↓	2000ug/mL	400 ug/L	↓		↓	↓	↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

Prep Report for Batch 3307 (EPH/3540/SOIL) on 2005-07-27

Sample ID (GCCODE)	EXT	InitWt	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot	Analyst
G118-391-1G (145964)		12.62			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G118-391-2G (145965)		12.39			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G118-391-3G (145966)		12.78			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G118-391-4G (145967)		12.58			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G118-391-5G (145968)		12.07			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2081-1I (145969)		12.14			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2081-2I (145970)		13.29			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2081-3K (145971)		12.80			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2081-3L (145972)	MS	12.49	EPHQCSV03N34	1.0	EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2081-3M (145973)	MSD	12.24	EPHQCSV03N34	1.0	EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2082-1I (145974)		12.27			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2082-2I (145975)		12.37			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2082-3I (145976)		12.54			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2082-3J (145977)	DUP	12.47			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G161-2082-4I (145978)		12.50			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
G211-1838-1H (145979)		13.52			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
LCS3307	LCS	12.0	EPHQCSV03N34	1.0	EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw
PB3307	PB	12.0			EPHSRSV03W17L	1.0	10.0	CO196	CO300	eaw

VPH Sample Raw Data

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\026F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-1e x1
un Time Bar Code:
cquired on : 25 Jul 05 09:00 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

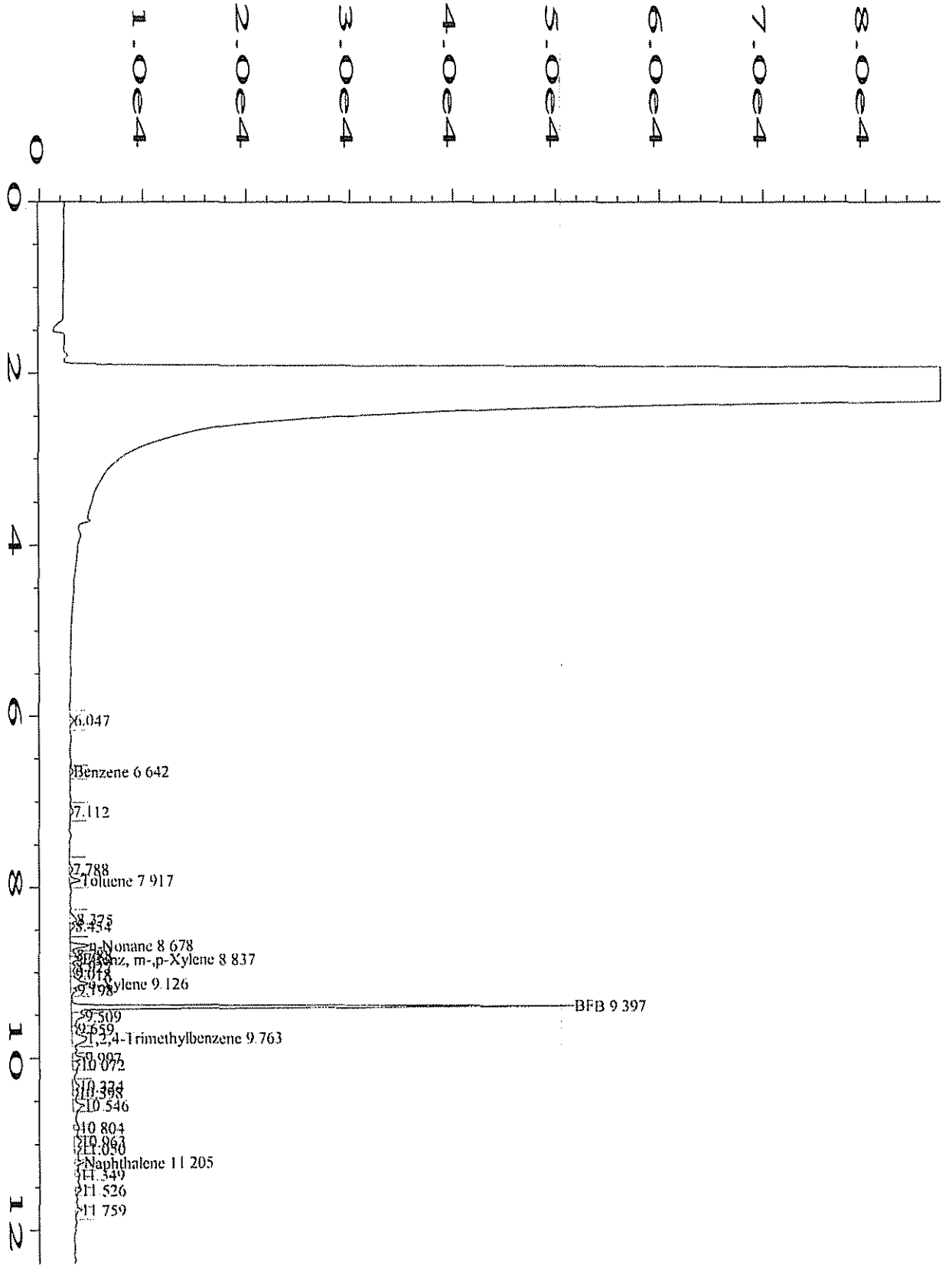
Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\026F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.642	1471	VB	0.062	1	0.186	Benzene
7.917	3602	VV	0.047	1	0.382	Toluene
8.678	5488	BV	0.043	1	1.377	n-Nonane
8.837	3371	VV	0.041	1	0.330	EBenz, m-,p-Xylene
9.126	7332	VV	0.059	1	0.728	o-Xylene
9.397	92476	VV	0.029	1	356.215	BFB
9.763	9201	VV	0.085	1	0.979	1,2,4-Trimethylbenzene
11.205	2156	VV	0.036	1	0.509	Naphthalene
6.047	1677	BV	0.065		16.768	* uncalibrated *
7.112	1699	VB	0.072		16.992	* uncalibrated *
7.788	1493	BV	0.056		14.935	* uncalibrated *
8.375	3497	VV	0.068		34.971	* uncalibrated *
8.454	1758	VB	0.052		17.583	* uncalibrated *
8.788	1800	VV	0.042		18.002	* uncalibrated *
8.927	2139	VV	0.056		21.394	* uncalibrated *
9.018	1520	VV	0.047		15.197	* uncalibrated *
9.198	2128	VV	0.047		21.284	* uncalibrated *
9.509	7022	VV	0.071		70.216	* uncalibrated *
9.659	2422	VV	0.063		24.216	* uncalibrated *
9.997	3868	VV	0.044		38.676	* uncalibrated *
10.072	3599	VV	0.062		35.987	* uncalibrated *
10.324	3347	VV	0.072		33.472	* uncalibrated *
10.398	1877	VV	0.049		18.774	* uncalibrated *
10.546	5122	VV	0.062		51.221	* uncalibrated *
10.804	1647	VV	0.041		16.469	* uncalibrated *
10.963	3602	VV	0.076		36.022	* uncalibrated *
11.050	2598	VV	0.052		25.975	* uncalibrated *
11.349	1852	VV	0.050		18.524	* uncalibrated *
11.526	1827	VV	0.044		18.268	* uncalibrated *
11.759	1725	VV	0.041		17.246	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



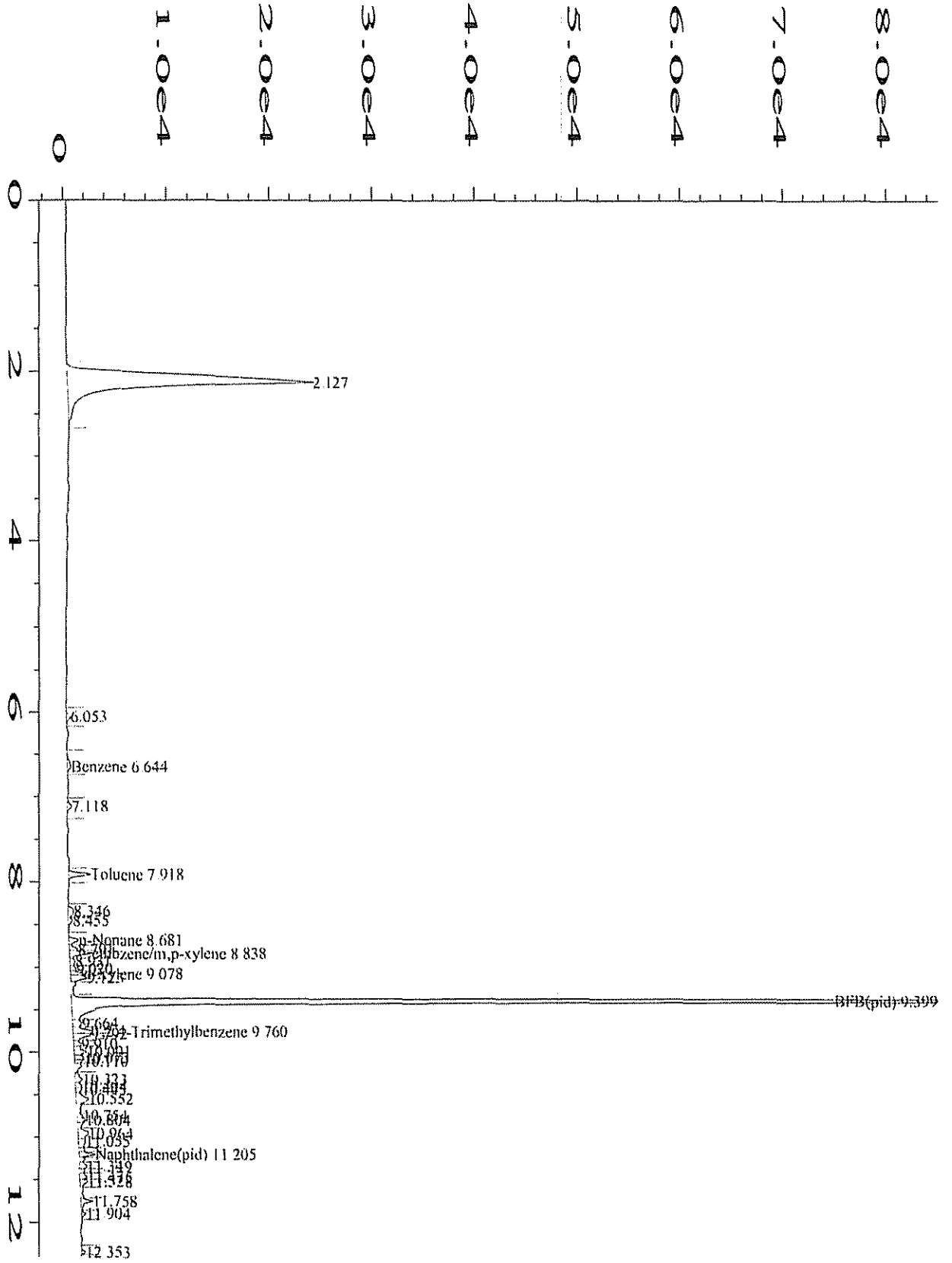
Data File Name	: C:\HPCHEM\1\DATA\vp072505\026F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 26
Sample Name	: g161-2081-1e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:00 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

)ata File Name	: C:\HPCHEM\1\DATA\vp072505\026R0101.D		
)perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 26
!ample Name	: g161-2081-1e xl	Injection Number	: 1
:un Time Bar Code	:	Sequence Line	: 1
ıcquired on	: 25 Jul 05 09:00 PM	Instrument Method	: GAS1.MTH
:eport Created on	: 26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
;ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
!ultiplier	: 1	ISTD Amount	:

:ig. 2 in C:\HPCHEM\1\DATA\vp072505\026R0101.D

:et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.644	2377	BV	0.081	1	0.0299	Benzene
7.918	5554	VV	0.040	1	0.136	Toluene
8.681	2999	BV	0.048	1	0.442	n-Nonane
8.838	5757	VV	0.039	1	0.170	ethbzene/m,p-xylene
9.078	2919	VV	0.035	1	0.0754	o-Xylene
9.399	424544	VV	0.033	1	28.574	BFB(pid)
9.760	6255	VV	0.046	1	0.204	1,2,4-Trimethylbenzene
11.205	3754	VV	0.035	1	0.215	Naphthalene(pid)
2.127	210502	BV	0.110		2105.023	* uncalibrated *
6.053	1899	BV	0.067		18.988	* uncalibrated *
7.118	1973	BB	0.064		19.730	* uncalibrated *
8.346	3346	VV	0.091		33.464	* uncalibrated *
8.455	1603	VB	0.055		16.033	* uncalibrated *
8.791	2206	VV	0.041		22.063	* uncalibrated *
8.931	2043	VV	0.057		20.427	* uncalibrated *
9.020	1684	VV	0.046		16.842	* uncalibrated *
9.125	5164	VV	0.049		51.644	* uncalibrated *
9.664	3802	VV	0.066		38.022	* uncalibrated *
9.792	5396	VV	0.053		53.957	* uncalibrated *
9.910	2478	VV	0.049		24.780	* uncalibrated *
10.001	5056	VV	0.058		50.564	* uncalibrated *
10.073	2926	VV	0.042		29.259	* uncalibrated *
10.110	1796	VV	0.036		17.964	* uncalibrated *
10.323	3848	VV	0.071		38.484	* uncalibrated *
10.404	1976	VV	0.045		19.765	* uncalibrated *
10.445	1534	VV	0.038		15.344	* uncalibrated *
10.552	6568	VV	0.071		65.680	* uncalibrated *
10.754	1503	VV	0.037		15.026	* uncalibrated *
10.804	2477	VV	0.043		24.767	* uncalibrated *
10.964	5622	VV	0.080		56.221	* uncalibrated *
11.055	3753	VV	0.074		37.532	* uncalibrated *
11.349	2769	VV	0.051		27.692	* uncalibrated *
11.475	2400	VV	0.047		24.004	* uncalibrated *
11.528	2659	VV	0.052		26.588	* uncalibrated *
11.758	3484	VV	0.043		34.841	* uncalibrated *
11.904	1092	VV	0.039		10.923	* uncalibrated *
12.353	825	BBA	0.034		8.254	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp072505\026R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 26
Sample Name	: g161-2081-1e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:00 PM	Instrument Method	: GAS1.MTH
Report Created on	: 26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\027F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-2e x1
un Time Bar Code:
cquired on : 25 Jul 05 09:25 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

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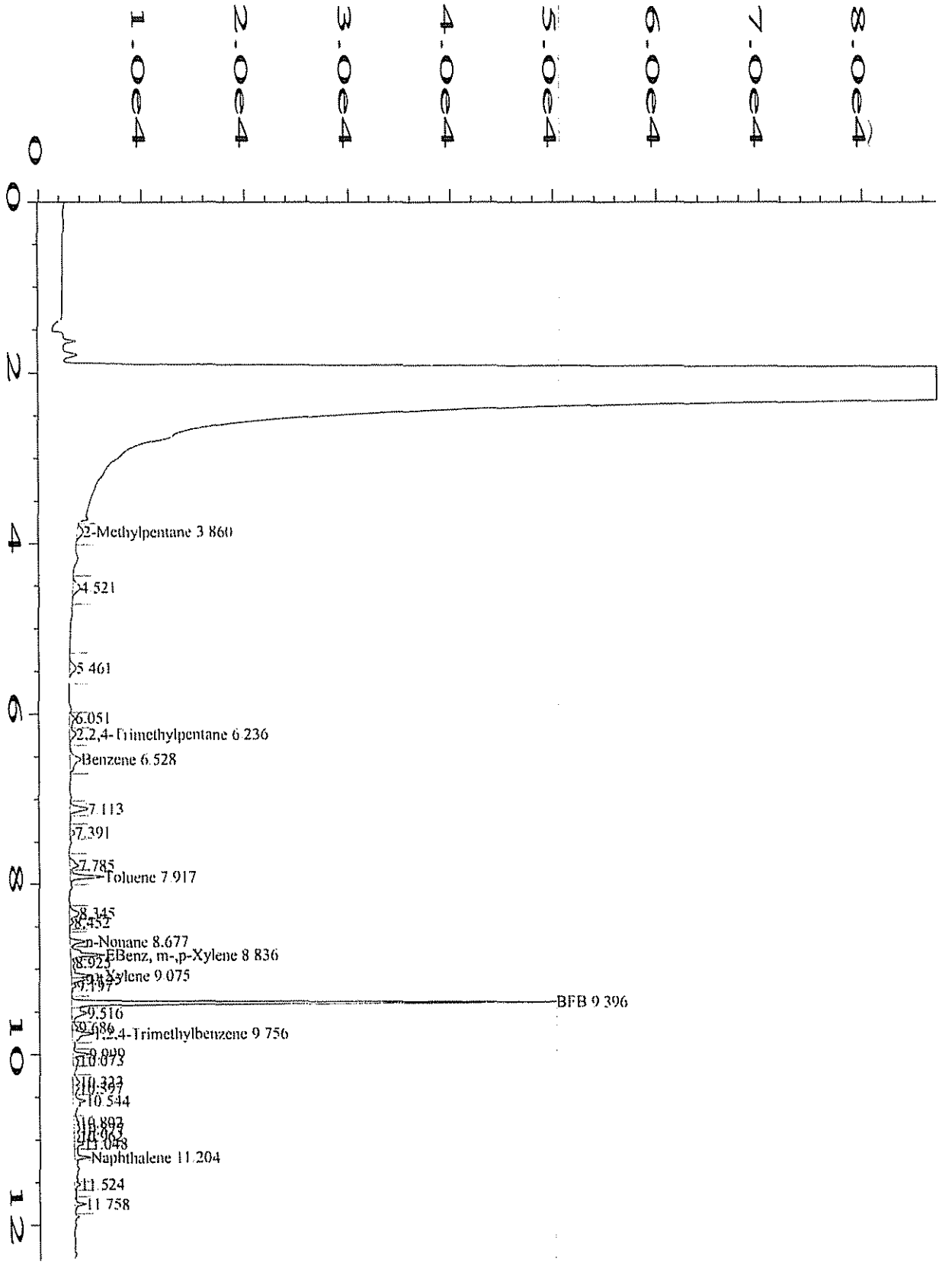
7/26

ig. 1 in C:\HPCHEM\1\DATA\vp072505\027F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.860	3806	PV	0.112	1	0.676	2-Methylpentane
4.282	* not found *			1		MTBE
6.236	3604	VV	0.087	1	0.692	2,2,4-Trimethylpentane
6.528	7411	PV	0.096	1	0.939	Benzene
7.917	8689	VV	0.041	1	0.922	Toluene
8.677	4059	BV	0.042	1	1.019	n-Nonane
8.836	10216	VV	0.043	1	0.999	EBenz, m-,p-Xylene
9.075	5972	VV	0.043	1	0.593	o-Xylene
9.396	87347	BV	0.029	1	336.460	BFB
9.756	7797	VV	0.053	1	0.830	1,2,4-Trimethylbenzene
11.204	4486	VV	0.041	1	1.059	Naphthalene
4.521	4967	BB	0.105		49.674	* uncalibrated *
5.461	4234	BB	0.107		42.342	* uncalibrated *
6.051	3641	VV	0.092		36.410	* uncalibrated *
7.113	6690	PV	0.061		66.898	* uncalibrated *
7.391	1738	BV	0.057		17.376	* uncalibrated *
7.785	3820	BV	0.062		38.205	* uncalibrated *
8.345	4840	VV	0.081		48.396	* uncalibrated *
8.452	1227	VB	0.044		12.272	* uncalibrated *
8.925	1483	VV	0.051		14.831	* uncalibrated *
9.125	3827	VV	0.046		38.270	* uncalibrated *
9.197	1627	VB	0.046		16.271	* uncalibrated *
9.516	7276	VV	0.067		72.765	* uncalibrated *
9.686	2106	VV	0.057		21.060	* uncalibrated *
9.999	4020	VV	0.039		40.201	* uncalibrated *
10.073	3057	VV	0.067		30.574	* uncalibrated *
10.323	3341	VV	0.072		33.409	* uncalibrated *
10.397	2609	VV	0.061		26.089	* uncalibrated *
10.544	6976	VV	0.076		69.765	* uncalibrated *
10.802	2298	VV	0.071		22.979	* uncalibrated *
10.877	2490	VV	0.058		24.903	* uncalibrated *
10.962	2521	VV	0.072		25.205	* uncalibrated *
11.048	2837	VV	0.044		28.370	* uncalibrated *
11.524	1774	VV	0.044		17.736	* uncalibrated *
11.758	3116	VV	0.043		31.159	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp072505\027F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 27
Sample Name	: g161-2081-2e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:25 PM	Instrument Method	: GAS1.MTH
Report Created on	: 26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\027R0101.D
perator) : DCS
nstrument : FID/PID
ample Name : g161-2081-2e x1
un Time Bar Code:
cquired on : 25 Jul 05 09:25 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\027R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.768	5698	VV	0.120	1	0.909	n-Pentane
3.883	2349	BV	0.101	1	0.249	2-Methylpentane
4.267	* not found *			1		MTBE
6.246	5554	VV	0.096	1	0.365	2,2,4-Trimethylpentane
6.595	11018	PB	0.095	1	0.138	Benzene
7.919	17804	VV	0.041	1	0.436	Toluene
8.682	2243	BV	0.047	1	0.330	n-Nonane
8.837	18859	VV	0.041	1	0.558	ethbzene/m,p-xylene
9.076	13019	VV	0.054	1	0.336	o-Xylene
9.399	405191	VV	0.033	1	27.271	BFB(pid)
9.756	10984	VV	0.049	1	0.358	1,2,4-Trimethylbenzene
11.204	7662	VV	0.036	1	0.438	Naphthalene(pid)
1.640	2944	BV	0.041		29.443	* uncalibrated *
1.809	1197	VV	0.053		11.970	* uncalibrated *
2.121	206811	VV	0.113		2068.111	* uncalibrated *
2.477	7132	VV	0.124		71.324	* uncalibrated *
3.001	2706	VV	0.079		27.064	* uncalibrated *
4.053	1164	VB	0.072		11.640	* uncalibrated *
4.525	2966	BV	0.120		29.656	* uncalibrated *
5.479	2202	BB	0.103		22.025	* uncalibrated *
6.058	3842	BV	0.095		38.422	* uncalibrated *
7.118	10204	VB	0.066		102.044	* uncalibrated *
7.396	1089	BV	0.057		10.887	* uncalibrated *
7.744	3092	BV	0.070		30.923	* uncalibrated *
8.344	5009	BV	0.068		50.094	* uncalibrated *
8.455	1109	VB	0.048		11.087	* uncalibrated *
8.931	1571	VV	0.060		15.708	* uncalibrated *
9.199	1312	VV	0.042		13.125	* uncalibrated *
9.518	10562	VV	0.071		105.623	* uncalibrated *
9.687	3525	VV	0.051		35.250	* uncalibrated *
10.003	4997	VV	0.043		49.971	* uncalibrated *
10.075	4187	VV	0.067		41.870	* uncalibrated *
10.323	3663	VV	0.071		36.627	* uncalibrated *
10.402	3130	VV	0.066		31.298	* uncalibrated *
10.549	7863	VV	0.100		78.626	* uncalibrated *
10.803	3108	VV	0.061		31.080	* uncalibrated *
10.880	2354	VV	0.055		23.541	* uncalibrated *
10.964	3601	VV	0.075		36.013	* uncalibrated *
11.051	3057	VV	0.056		30.574	* uncalibrated *
11.348	1902	VV	0.061		19.020	* uncalibrated *
11.526	2002	VV	0.049		20.024	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\027R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-2e x1
un Time Bar Code:
cquired on : 25 Jul 05 09:25 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

11.758	5151	VV	0.038	51.513	* uncalibrated *
11.904	1593	VV	0.034	15.932	* uncalibrated *
12.352	899	BBA	0.037	8.989	* uncalibrated *

ot all calibrated peaks were found

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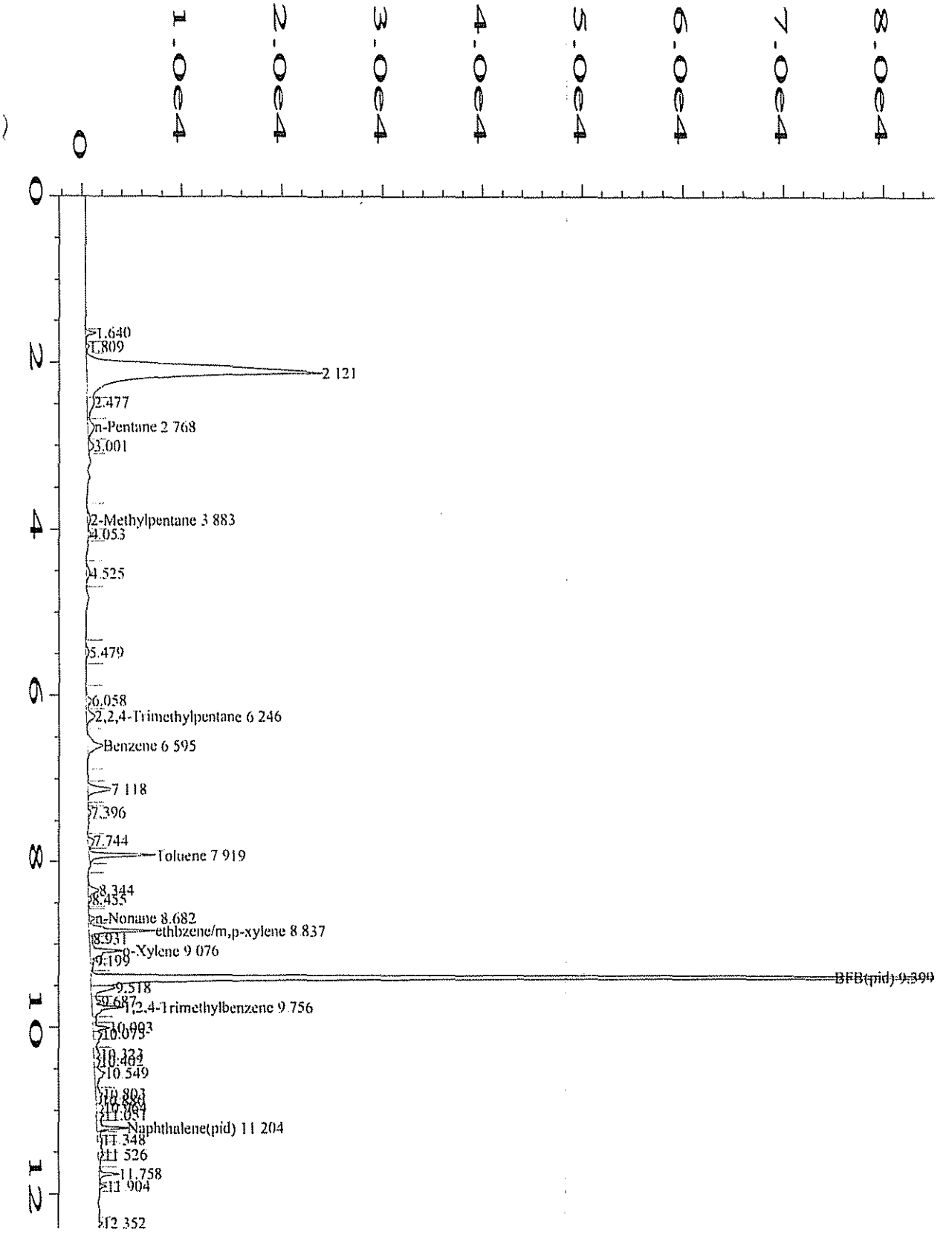

Data File Name	: C:\HPCHEM\1\DATA\vp072505\027R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 27
Sample Name	: g161-2081-2e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:25 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp072505\028F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 28
ample Name	: g161-2081-3e x1	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 25 Jul 05 09:50 PM	Instrument Method	: GAS1.MTH
eport Created on	: 26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

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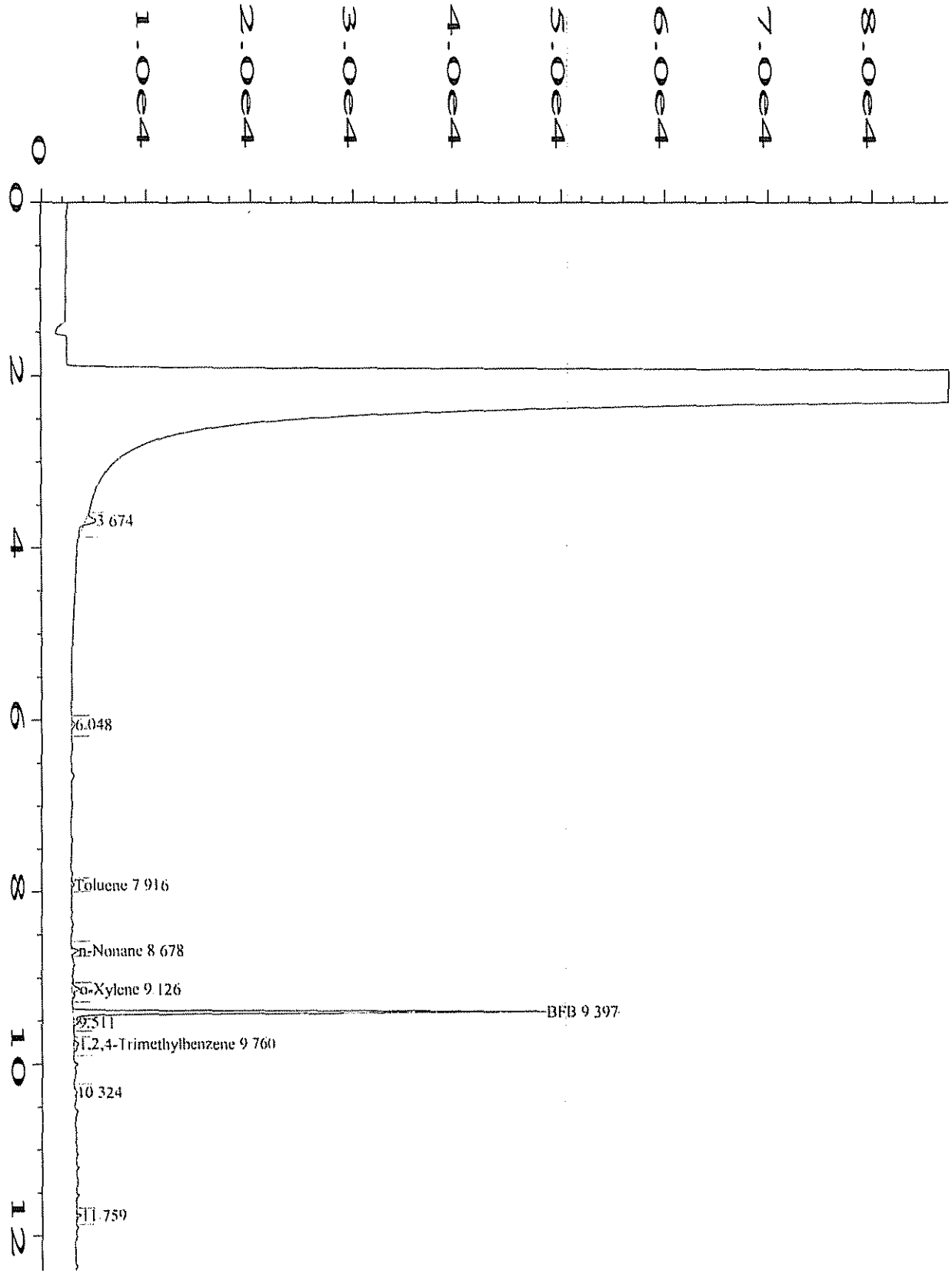
ig. 1 in C:\HPCHEM\1\DATA\vp072505\028F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.916	1008	VB	0.052	1	0.107	Toluene
8.678	1974	BV	0.043	1	0.495	n-Nonane
8.848	* not found *			1		EBenz, m-,p-Xylene
9.126	2667	VV	0.054	1	0.265	o-Xylene
9.397	83331	PV	0.029	1	320.991	BFB
9.760	2305	BB	0.068	1	0.245	1,2,4-Trimethylbenzene
11.210	* not found *			1		Naphthalene
3.674	2861	BB	0.043		28.611	* uncalibrated *
6.048	1467	BB	0.065		14.669	* uncalibrated *
9.511	1703	VB	0.053		17.029	* uncalibrated *
10.324	1051	BV	0.058		10.507	* uncalibrated *
11.759	1098	BV	0.035		10.978	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp072505\028F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 28
Sample Name	: g161-2081-3e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:50 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

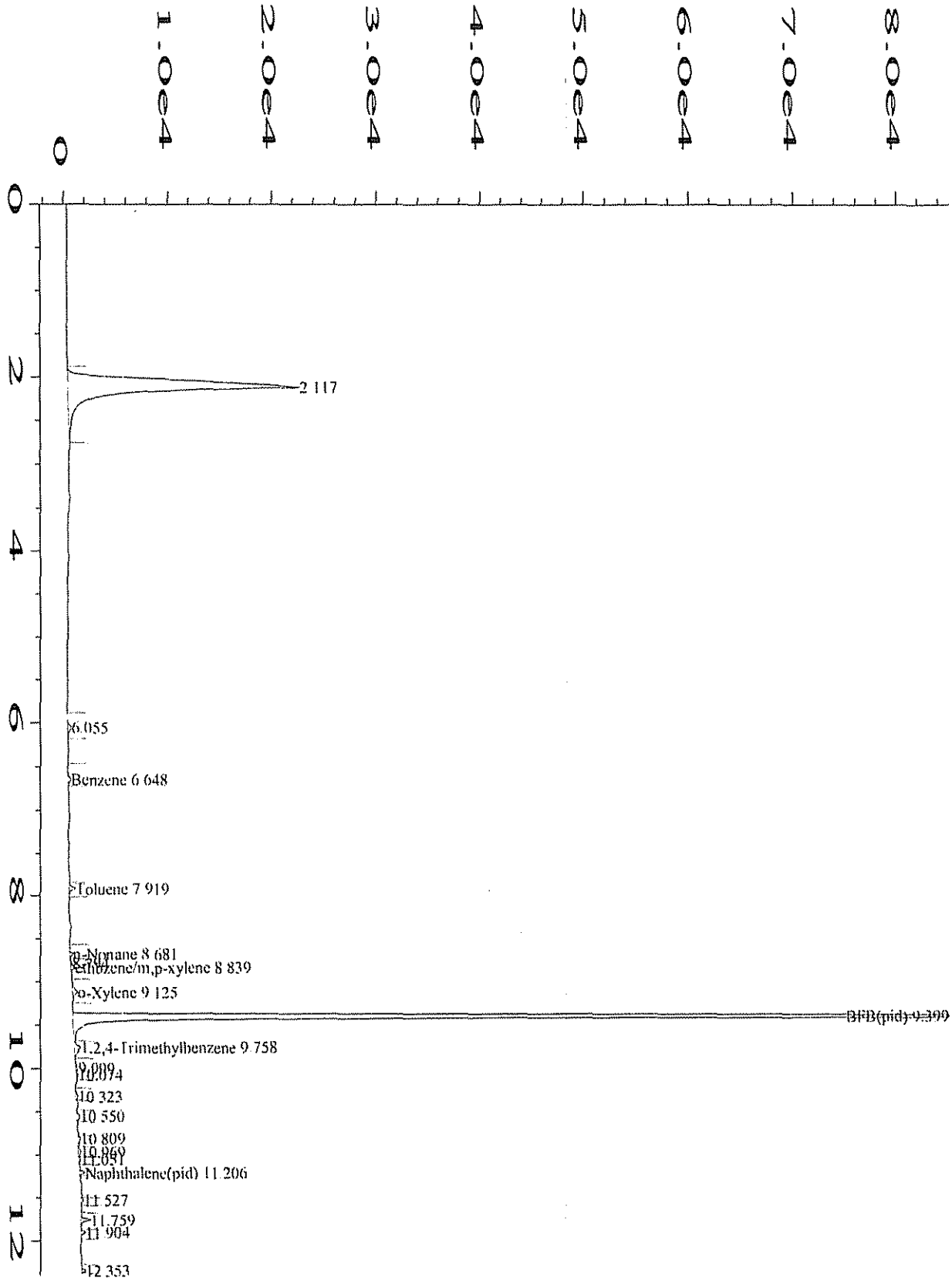
External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp072505\028R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 28
ample Name	: g161-2081-3e x1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 09:50 PM	Instrument Method:	GAS1.MTH
eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp072505\028R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.648	1258	BB	0.071	1	0.0158	Benzene
7.919	1704	VV	0.045	1	0.0418	Toluene
8.681	807	BV	0.041	1	0.119	n-Nonane
8.839	1066	VV	0.038	1	0.0315	ethbzene/m,p-xylene
9.125	2117	VV	0.062	1	0.0547	o-Xylene
9.399	392292	BV	0.032	1	26.403	BFB(pid)
9.758	3075	VV	0.068	1	0.100	1,2,4-Trimethylbenzene
11.206	1081	VV	0.031	1	0.0618	Naphthalene(pid)
2.117	185217	BV	0.102		1852.174	* uncalibrated *
6.055	1752	BB	0.069		17.522	* uncalibrated *
8.794	402	VV	0.039		4.020	* uncalibrated *
9.999	636	PV	0.043		6.360	* uncalibrated *
10.074	496	VV	0.041		4.962	* uncalibrated *
10.323	914	BV	0.057		9.137	* uncalibrated *
10.550	1303	VV	0.059		13.026	* uncalibrated *
10.809	1055	VV	0.059		10.554	* uncalibrated *
10.969	1138	VV	0.069		11.385	* uncalibrated *
11.051	712	VV	0.053		7.125	* uncalibrated *
11.527	711	VV	0.041		7.108	* uncalibrated *
11.759	2045	BV	0.034		20.451	* uncalibrated *
11.904	903	PV	0.033		9.033	* uncalibrated *
12.353	723	BBA	0.034		7.228	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp072505\028R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 28
Sample Name	: g161-2081-3e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 09:50 PM	Instrument Method	: GAS1.MTH
Report Created on	: 26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\029F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-9e x1
un Time Bar Code:
cquired on : 25 Jul 05 10:15 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\029F0101.D

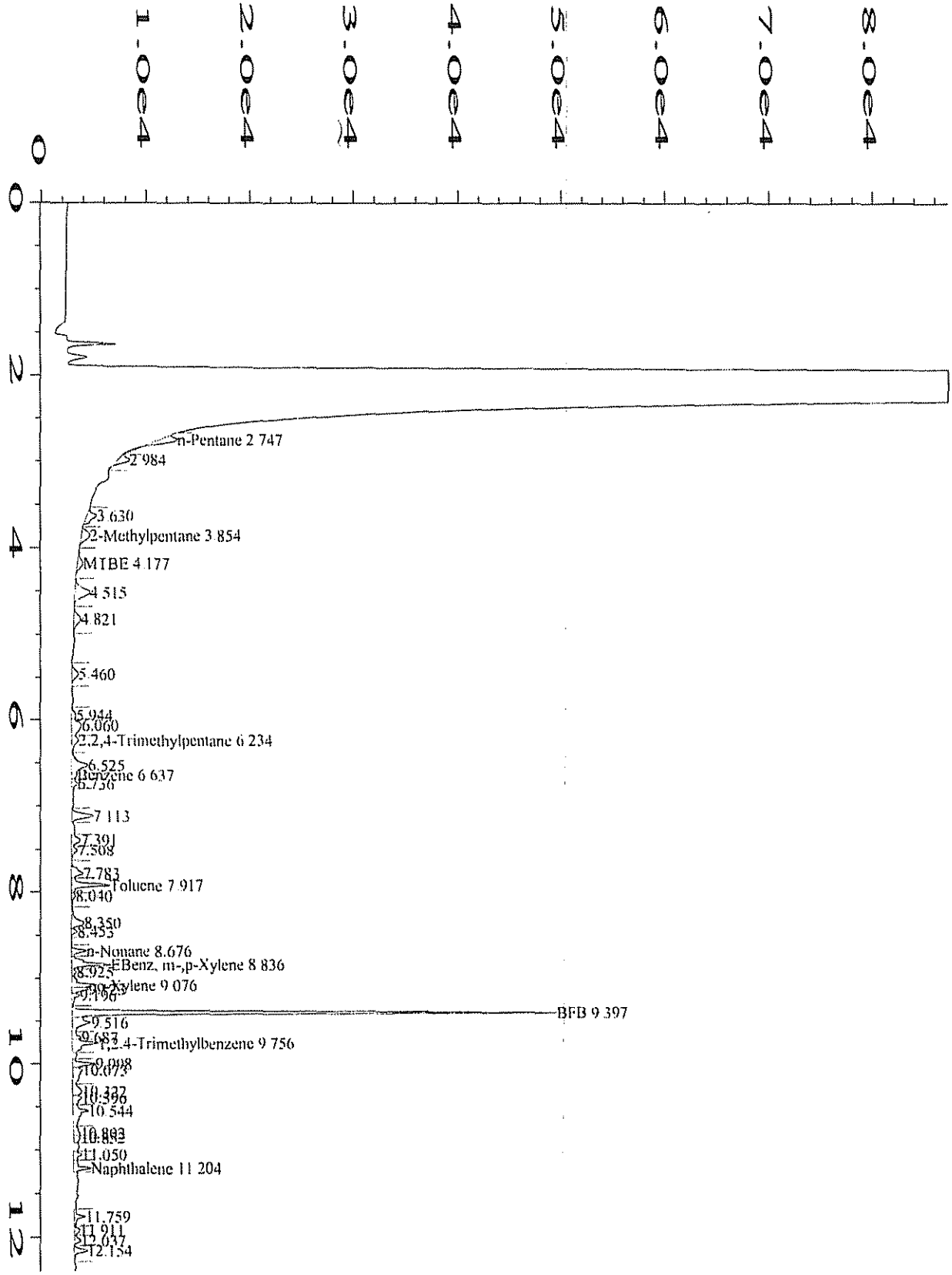
et Time	Area	Type	Width	Ref#	ug/L	Name
2.747	6378	BV	0.065	1	6.361	n-Pentane
3.854	5443	PV	0.106	1	0.967	2-Methylpentane
4.177	4001	PV	0.119	1	9.379	MTBE
6.234	3976	VV	0.091	1	0.764	2,2,4-Trimethylpentane
6.637	1750	VV	0.056	1	0.222	Benzene
7.917	11580	VV	0.047	1	1.229	Toluene
8.676	4094	VV	0.043	1	1.027	n-Nonane
8.836	11538	VV	0.045	1	1.128	EBenz, m-,p-Xylene
9.076	7885	VV	0.054	1	0.783	o-Xylene
9.397	87346	VV	0.030	1	336.457	BFB
9.756	10321	VV	0.057	1	1.099	1,2,4-Trimethylbenzene
11.204	5083	VV	0.044	1	1.199	Naphthalene
2.984	4349	PB	0.063		43.489	* uncalibrated *
3.630	5450	BV	0.080		54.503	* uncalibrated *
4.515	10071	PV	0.110		100.709	* uncalibrated *
4.821	5292	VV	0.117		52.919	* uncalibrated *
5.460	4134	PB	0.103		41.343	* uncalibrated *
5.944	2283	VV	0.083		22.827	* uncalibrated *
6.060	7629	VV	0.111		76.293	* uncalibrated *
6.525	9979	VV	0.089		99.788	* uncalibrated *
6.736	2576	VV	0.070		25.762	* uncalibrated *
7.113	8480	VV	0.063		84.796	* uncalibrated *
7.391	3913	VV	0.066		39.127	* uncalibrated *
7.508	2463	VV	0.067		24.633	* uncalibrated *
7.783	5381	PV	0.066		53.808	* uncalibrated *
8.040	1860	VV	0.065		18.605	* uncalibrated *
8.350	7242	VV	0.086		72.423	* uncalibrated *
8.453	1629	VV	0.043		16.290	* uncalibrated *
8.925	1691	VV	0.058		16.908	* uncalibrated *
9.123	4293	VV	0.045		42.926	* uncalibrated *
9.196	2887	VV	0.054		28.868	* uncalibrated *
9.516	9541	VV	0.071		95.411	* uncalibrated *
9.687	3172	VV	0.061		31.718	* uncalibrated *
9.998	6000	VV	0.046		59.996	* uncalibrated *
10.073	6973	VV	0.102		69.730	* uncalibrated *
10.322	5189	VV	0.081		51.886	* uncalibrated *
10.396	3959	VV	0.065		39.590	* uncalibrated *
10.544	9502	VV	0.084		95.023	* uncalibrated *
10.802	3140	VV	0.072		31.403	* uncalibrated *
10.852	2991	VV	0.076		29.905	* uncalibrated *
11.050	3116	VV	0.054		31.157	* uncalibrated *

```
ata File Name    : C:\HPCHEM\1\DATA\vp072505\029F0101.D
perator          : DCS                          Page Number       : 2
nstrument        : FID/PID                      Vial Number       : 29
ample Name       : g161-2081-9e x1              Injection Number  : 1
un Time Bar Code:                               Sequence Line     : 1
cquired on       : 25 Jul 05  10:15 PM          Instrument Method: GAS1.MTH
eport Created on: 26 Jul 05  07:56 AM           Analysis Method   : VPH_FID.MTH
ast Recalib on   : 24 AUG 04 09:09 AM           Sample Amount     : 0
ultiplier        : 1                            ISTD Amount       :

 11.759          4057 VV   0.069          40.571 * uncalibrated *
 11.911          2001 VV   0.064          20.013 * uncalibrated *
 12.037          2115 VV   0.056          21.152 * uncalibrated *
 12.154          3928 VV   0.049          39.282 * uncalibrated *

alibration table contains at least one peak with amt = 0

==========================================================================
```



Data File Name	: C:\HPCHEM\1\DATA\vp072505\029F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 29
Sample Name	: g161-2081-9e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 10:15 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\029R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-9e x1
un Time Bar Code:
cquired on : 25 Jul 05 10:15 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\029R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.767	13384	VV	0.116	1	2.134	n-Pentane
3.859	6444	BV	0.153	1	0.682	2-Methylpentane
4.267	* not found *			1		MTBE
6.244	5970	VV	0.099	1	0.392	2,2,4-Trimethylpentane
6.593	13895	VV	0.107	1	0.175	Benzene
7.918	22221	VV	0.045	1	0.545	Toluene
8.680	2169	BV	0.048	1	0.320	n-Nonane
8.837	20442	VV	0.042	1	0.604	ethbzene/m,p-xylene
9.076	14973	VV	0.054	1	0.387	o-Xylene
9.399	398473	VV	0.061	1	26.819	BFB(pid)
9.756	13018	VV	0.050	1	0.424	1,2,4-Trimethylbenzene
11.204	8314	VV	0.038	1	0.475	Naphthalene(pid)
1.638	12307	BV	0.041		123.073	* uncalibrated *
1.807	1379	VV	0.059		13.785	* uncalibrated *
2.051	105182	VV	0.067		1051.824	* uncalibrated *
2.110	140036	VV	0.073		1400.359	* uncalibrated *
2.998	18212	VV	0.083		182.121	* uncalibrated *
3.193	8106	VV	0.097		81.057	* uncalibrated *
4.050	4964	VV	0.094		49.637	* uncalibrated *
4.507	7075	PV	0.125		70.754	* uncalibrated *
4.825	9242	VV	0.121		92.419	* uncalibrated *
5.478	1939	PV	0.096		19.389	* uncalibrated *
6.064	9216	VV	0.120		92.164	* uncalibrated *
6.740	4015	VV	0.071		40.149	* uncalibrated *
7.117	12377	VV	0.067		123.774	* uncalibrated *
7.300	2279	VV	0.082		22.791	* uncalibrated *
7.392	3564	VV	0.076		35.638	* uncalibrated *
7.513	2429	VV	0.079		24.292	* uncalibrated *
7.749	4898	VV	0.082		48.983	* uncalibrated *
8.044	1810	VV	0.077		18.103	* uncalibrated *
8.346	7846	VV	0.081		78.455	* uncalibrated *
8.454	1556	VV	0.045		15.565	* uncalibrated *
8.928	1488	VV	0.060		14.882	* uncalibrated *
9.197	1721	VV	0.042		17.211	* uncalibrated *
9.517	12614	VV	0.075		126.140	* uncalibrated *
9.687	4169	VV	0.058		41.686	* uncalibrated *
10.003	6487	VV	0.044		64.867	* uncalibrated *
10.074	2965	VV	0.044		29.652	* uncalibrated *
10.110	2572	VV	0.043		25.716	* uncalibrated *
10.322	5483	VV	0.081		54.830	* uncalibrated *
10.400	4488	VV	0.076		44.882	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\029R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-9e x1
un Time Bar Code:
cquired on : 25 Jul 05 10:15 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.548	7423	VV	0.082	74.230	* uncalibrated *
10.802	3899	VV	0.073	38.988	* uncalibrated *
10.849	3043	VV	0.072	30.430	* uncalibrated *
10.962	3898	VV	0.077	38.980	* uncalibrated *
11.051	3460	VV	0.074	34.599	* uncalibrated *
11.758	6578	VV	0.064	65.778	* uncalibrated *
11.910	3634	VV	0.063	36.342	* uncalibrated *
12.037	3381	VV	0.053	33.807	* uncalibrated *
12.153	7137	VV	0.050	71.368	* uncalibrated *
12.348	680	PBA	0.052	6.796	* uncalibrated *

Not all calibrated peaks were found

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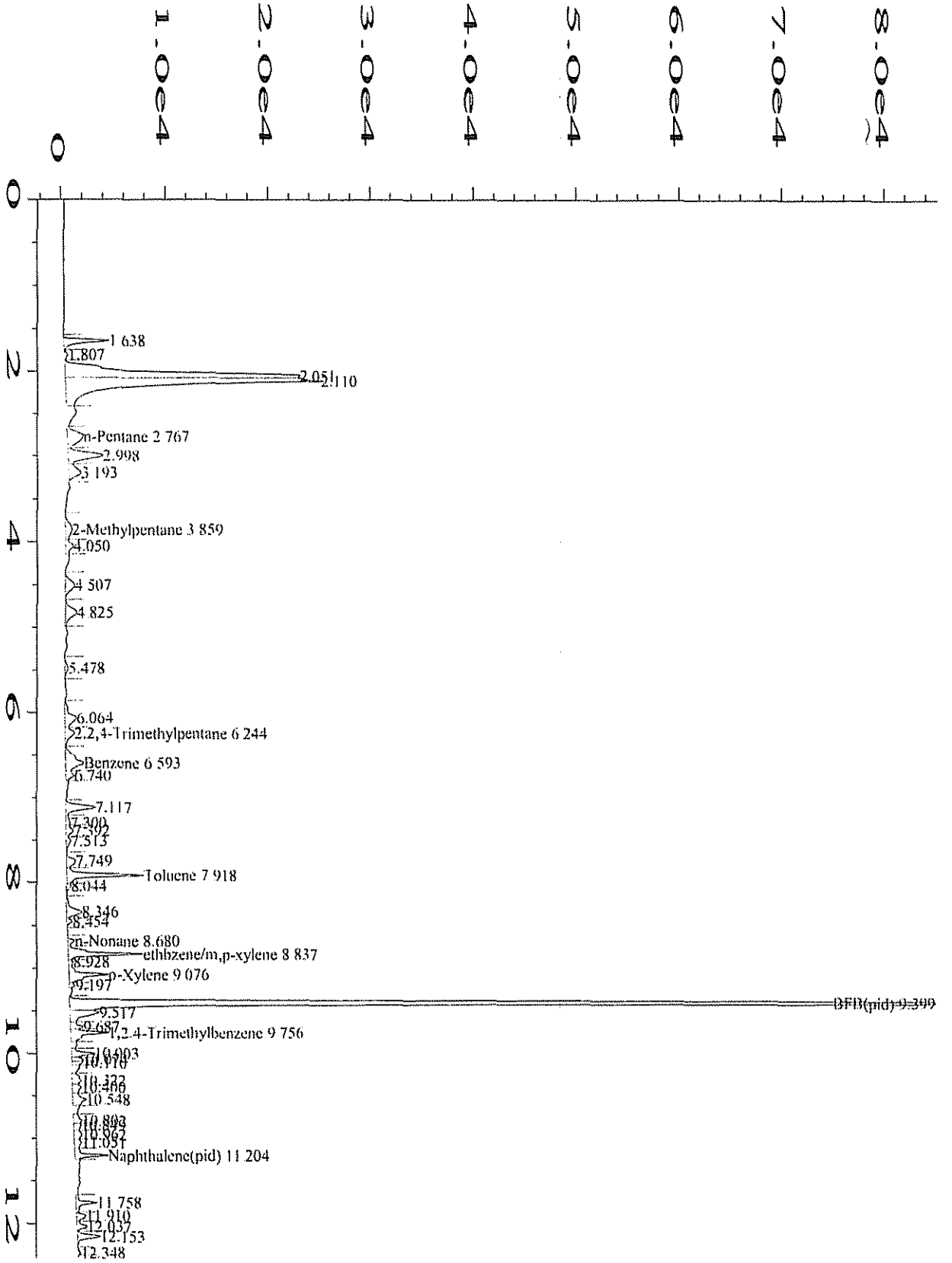

Data File Name	: C:\HPCHEM\1\DATA\vp072505\029R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 29
Sample Name	: g161-2081-9e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 10:15 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

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External Standard Report

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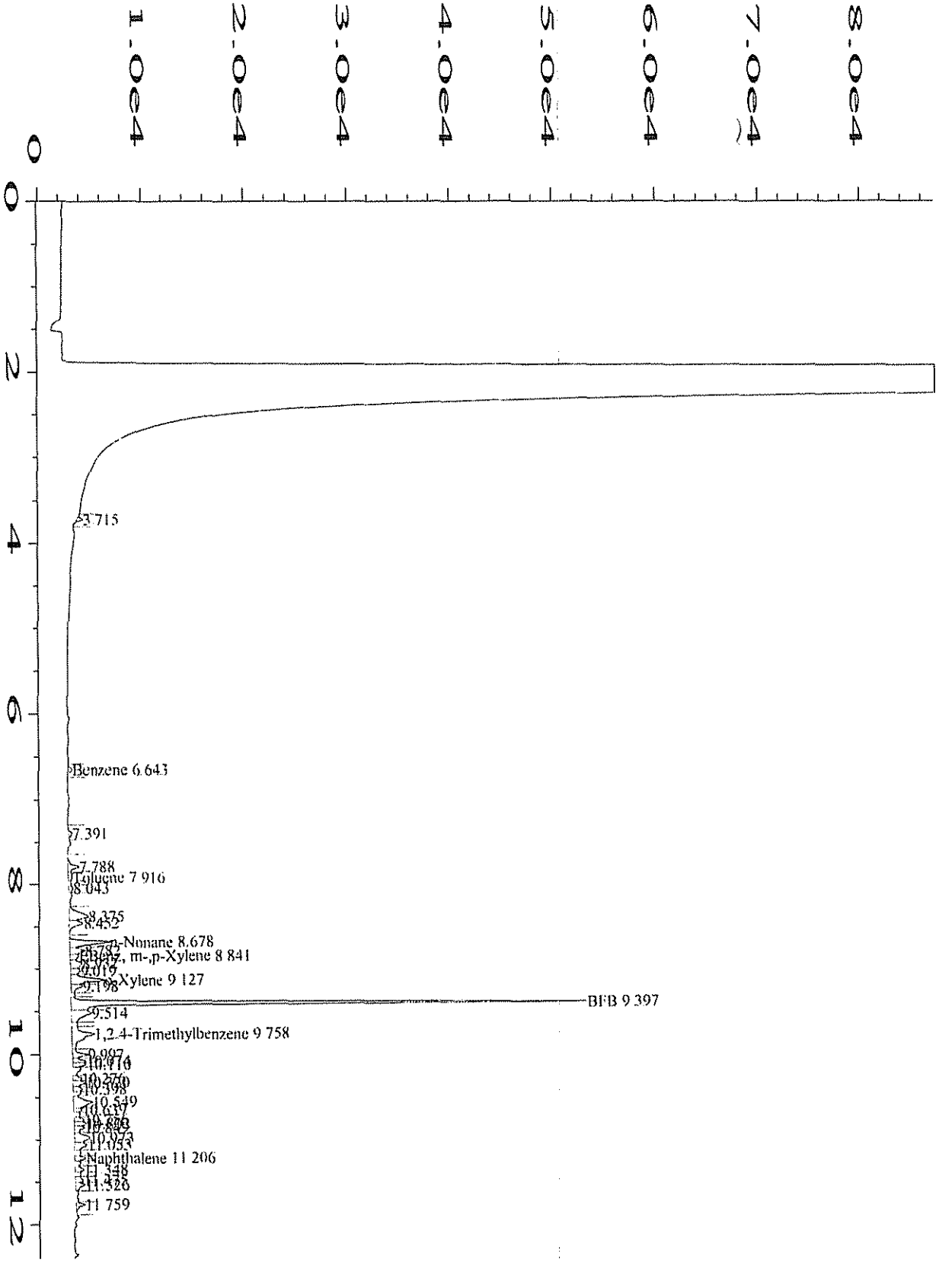
ata File Name : C:\HPCHEM\1\DATA\vp072505\025F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-10b x1
un Time Bar Code:
cquired on : 25 Jul 05 08:34 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\025F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.643	1419	BB	0.056	1	0.180	Benzene
7.916	2154	VV	0.072	1	0.229	Toluene
8.678	12583	PV	0.046	1	3.157	n-Nonane
8.841	2898	VV	0.050	1	0.283	EBenz, m-,p-Xylene
9.127	12337	VV	0.054	1	1.225	o-Xylene
9.397	99879	VV	0.030	1	384.732	BFB
9.758	13920	VV	0.082	1	1.481	1,2,4-Trimethylbenzene
11.206	2788	VV	0.038	1	0.658	Naphthalene
3.715	1140	BB	0.032		11.399	* uncalibrated *
7.391	1097	BV	0.055		10.971	* uncalibrated *
7.788	3767	BV	0.052		37.670	* uncalibrated *
8.043	1666	VV	0.056		16.658	* uncalibrated *
8.375	9379	VV	0.070		93.791	* uncalibrated *
8.452	5180	VV	0.055		51.801	* uncalibrated *
8.782	5051	VV	0.053		50.510	* uncalibrated *
8.932	5193	VV	0.065		51.929	* uncalibrated *
9.019	3299	VV	0.052		32.990	* uncalibrated *
9.198	3834	VV	0.050		38.340	* uncalibrated *
9.514	10156	VV	0.068		101.564	* uncalibrated *
9.997	4592	VV	0.044		45.922	* uncalibrated *
10.074	3359	VV	0.036		33.588	* uncalibrated *
10.110	3237	VV	0.035		32.370	* uncalibrated *
10.276	2375	VV	0.042		23.753	* uncalibrated *
10.320	3691	VV	0.043		36.908	* uncalibrated *
10.398	2823	VV	0.046		28.233	* uncalibrated *
10.549	9300	VV	0.066		92.995	* uncalibrated *
10.639	1971	VV	0.037		19.715	* uncalibrated *
10.756	2551	VV	0.038		25.507	* uncalibrated *
10.802	2987	VV	0.038		29.871	* uncalibrated *
10.849	3135	VV	0.044		31.346	* uncalibrated *
10.973	7047	VV	0.064		70.474	* uncalibrated *
11.053	4697	VV	0.057		46.968	* uncalibrated *
11.348	2846	VV	0.047		28.457	* uncalibrated *
11.475	2615	VV	0.046		26.147	* uncalibrated *
11.526	2786	VV	0.044		27.857	* uncalibrated *
11.759	2219	VV	0.037		22.194	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp072505\025F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 25
Sample Name	: g161-2081-10b x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 08:34 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

)ata File Name	: C:\HPCHEM\1\DATA\vp072505\025R0101.D		
)perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 25
'ample Name	: g161-2081-10b x1	Injection Number	: 1
:un Time Bar Code:		Sequence Line	: 1
,cquired on	: 25 Jul 05 08:34 PM	Instrument Method:	GAS1.MTH
:eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
,ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
'ultiplier	: 1	ISTD Amount	:

;ig. 2 in C:\HPCHEM\1\DATA\vp072505\025R0101.D

:et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.647	1446	BV	0.059	1	0.0182	Benzene
7.919	2563	VV	0.055	1	0.0628	Toluene
8.681	7408	PV	0.053	1	1.091	n-Nonane
8.837	3877	VV	0.046	1	0.115	ethbzene/m,p-xylene
9.127	12966	VV	0.060	1	0.335	o-Xylene
9.399	430209	VV	0.033	1	28.955	BFB(pid)
9.757	17672	VV	0.073	1	0.576	1,2,4-Trimethylbenzene
11.206	4702	VV	0.038	1	0.269	Naphthalene(pid)
2.083	136157	BB	0.093		1361.574	* uncalibrated *
7.394	755	BV	0.051		7.546	* uncalibrated *
7.791	2380	BV	0.070		23.799	* uncalibrated *
8.051	1379	VV	0.054		13.794	* uncalibrated *
8.362	9049	VV	0.090		90.487	* uncalibrated *
8.453	4935	VV	0.059		49.346	* uncalibrated *
8.783	6381	VV	0.054		63.807	* uncalibrated *
8.954	5649	VV	0.076		56.494	* uncalibrated *
9.022	3745	VV	0.050		37.452	* uncalibrated *
9.197	3884	VV	0.054		38.836	* uncalibrated *
9.514	14766	VV	0.078		147.655	* uncalibrated *
10.002	5642	VV	0.054		56.416	* uncalibrated *
10.076	4322	VV	0.039		43.223	* uncalibrated *
10.110	5426	VV	0.037		54.255	* uncalibrated *
10.165	4673	VV	0.057		46.726	* uncalibrated *
10.274	3393	VV	0.044		33.930	* uncalibrated *
10.320	4598	VV	0.042		45.978	* uncalibrated *
10.404	3356	VV	0.044		33.558	* uncalibrated *
10.445	3018	VV	0.037		30.184	* uncalibrated *
10.556	13300	VV	0.070		133.003	* uncalibrated *
10.639	2576	VV	0.037		25.757	* uncalibrated *
10.756	3907	VV	0.038		39.070	* uncalibrated *
10.802	4425	VV	0.039		44.246	* uncalibrated *
10.848	4069	VV	0.042		40.688	* uncalibrated *
10.973	11227	VV	0.067		112.271	* uncalibrated *
11.063	6783	VV	0.065		67.831	* uncalibrated *
11.348	4665	VV	0.049		46.650	* uncalibrated *
11.475	4199	VV	0.048		41.988	* uncalibrated *
11.528	4069	VV	0.049		40.692	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\025R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2081-10b x1
un Time Bar Code:
cquired on : 25 Jul 05 08:34 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

11.759	4473	VV	0.038	44.735	* uncalibrated *
11.904	1614	VV	0.042	16.144	* uncalibrated *
12.353	1126	VBA	0.030	11.263	* uncalibrated *

ot all calibrated peaks were found

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VPH Calibration Raw Data

External Standard Report

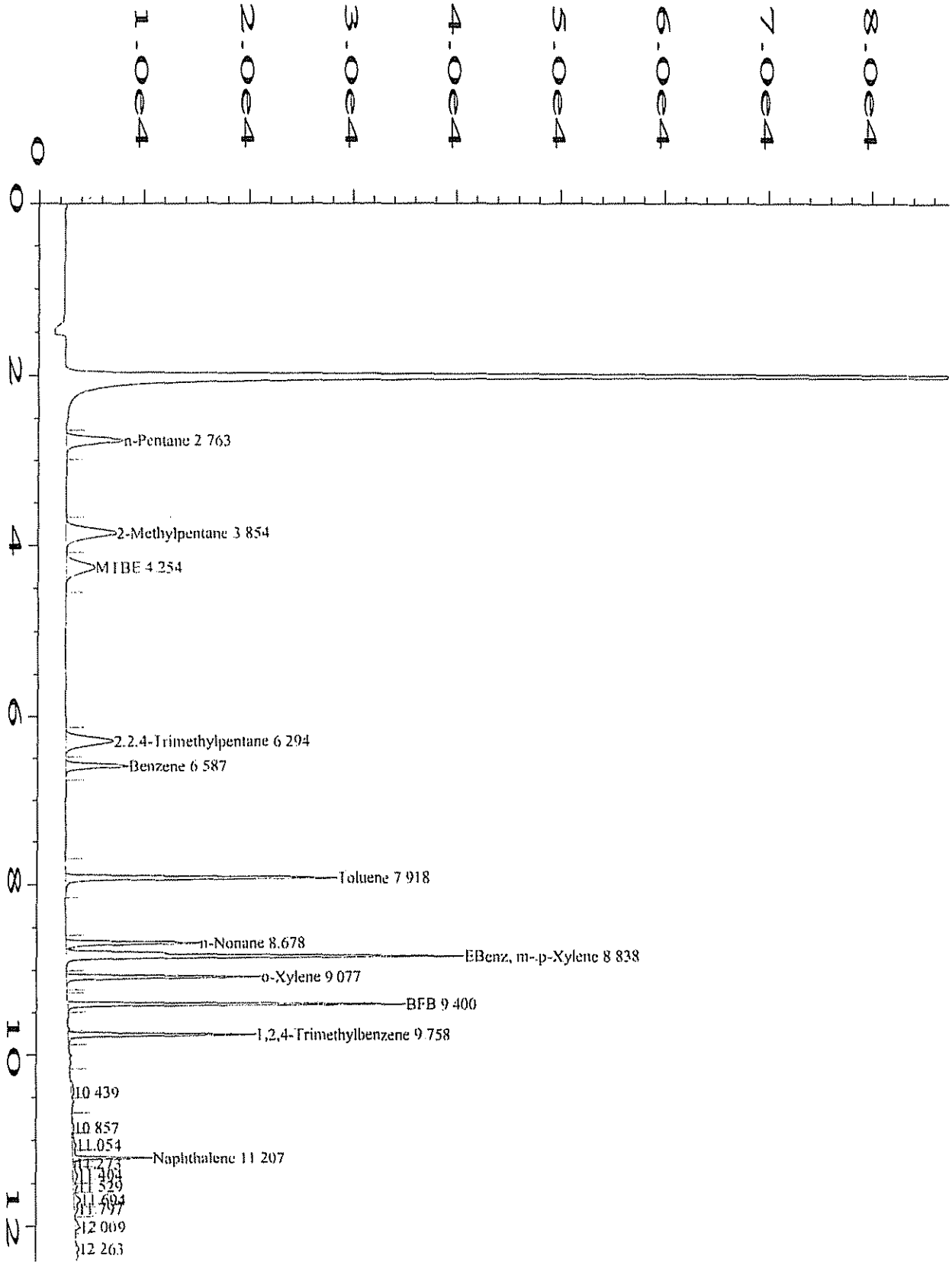
ıta File Name : C:\HPCHEM\1\DATA\vp071405\003F0101.D
)erator : DCS
ıstrument : FID/PID
ımple Name : V 10
ın Time Bar Code:
:quired on : 14 Jul 05 09:14 AM
:port Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

.g. 1 in C:\HPCHEM\1\DATA\vp071405\003F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.763	29353	BB	0.083	1	29.278	n-Pentane
3.854	37166	BV	0.116	1	6.601	2-Methylpentane
4.254	24008	VB	0.134	1	56.277	MTBE
6.294	30739	BV	0.103	1	5.904	2,2,4-Trimethylpentane
6.587	21736	VB	0.056	1	2.755	Benzene
7.918	64387	BB	0.039	1	6.835	Toluene
8.678	31081	BV	0.038	1	7.799	n-Nonane
8.838	98512	VV	0.038	1	9.630	EBenz, m-,p-Xylene
9.077	39065	VB	0.033	1	3.879	o-Xylene
9.400	58014	BV	0.029	1	223.467	BFB
9.758	35372	VB	0.031	1	3.765	1,2,4-Trimethylbenzene
11.207	14181	VV	0.041	1	3.346	Naphthalene
10.439	2255	BV	0.105		22.555	* uncalibrated *
10.857	1787	BV	0.113		17.873	* uncalibrated *
11.054	2590	VV	0.108		25.898	* uncalibrated *
11.273	1043	VV	0.053		10.425	* uncalibrated *
11.404	3422	VV	0.103		34.219	* uncalibrated *
11.529	1764	VV	0.063		17.642	* uncalibrated *
11.694	3765	VV	0.084		37.645	* uncalibrated *
11.797	1394	VV	0.056		13.939	* uncalibrated *
12.009	2478	VV	0.066		24.778	* uncalibrated *
12.263	1253	PV	0.064		12.529	* uncalibrated *

ılibration table contains at least one peak with amt = 0



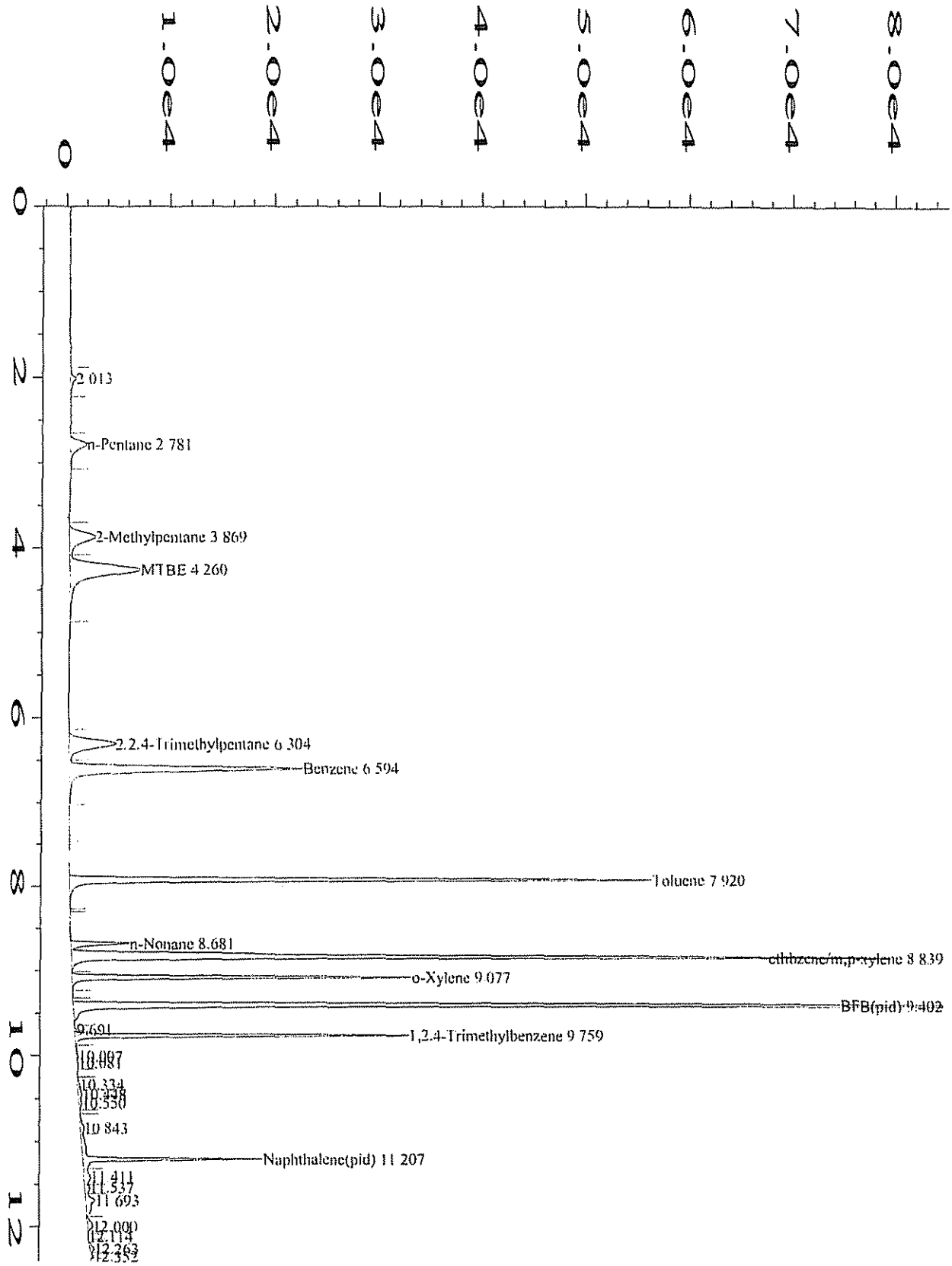
ata File Name	: C:\HPCHEM\1\DATA\vp071405\003F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 3
ample Name	: V 10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:14 AM	Instrument Method	: GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ıta File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
›erator	: DCS	Page Number	: 1
ıstrument	: FID/PID	Vial Number	: 3
ımple Name	: V 10	Injection Number	: 1
ın Time Bar Code:		Sequence Line	: 1
:quired on	: 14 Jul 05 09:14 AM	Instrument Method	: GAS1.MTH
›port Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ıst Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ıltiplier	: 1	ISTD Amount	:

ıg. 2 in C:\HPCHEM\1\DATA\vp071405\003R0101.D

›t Time	Area	Type	Width	Ref#	ug/L	Name
2.781	11221	BB	0.105	1	1.789	n-Pentane
3.869	22217	BV	0.135	1	2.353	2-Methylpentane
4.260	67014	VB	0.148	1	2.223	MTBE
6.304	33150	PV	0.114	1	2.179	2,2,4-Trimethylpentane
6.594	97400	VV	0.067	1	1.224	Benzene
7.920	145561	BB	0.041	1	3.567	Toluene
8.681	13863	BV	0.038	1	2.042	n-Nonane
8.839	207632	VV	0.044	1	6.138	ethbzene/m,p-xylene
9.077	71464	VV	0.035	1	1.845	o-Xylene
9.402	273788	BV	0.032	1	18.427	BFB(pid)
9.759	65359	VV	0.065	1	2.129	1,2,4-Trimethylbenzene
11.207	38413	VV	0.047	1	2.195	Naphthalene(pid)
2.013	3435	BB	0.082		34.352	* uncalibrated *
9.691	444	VV	0.032		4.435	* uncalibrated *
10.007	986	VV	0.081		9.860	* uncalibrated *
10.081	560	VV	0.068		5.601	* uncalibrated *
10.334	1050	BV	0.058		10.503	* uncalibrated *
10.448	2356	VV	0.078		23.563	* uncalibrated *
10.550	1626	VV	0.073		16.263	* uncalibrated *
10.843	2978	VV	0.120		29.781	* uncalibrated *
11.411	5437	VV	0.116		54.370	* uncalibrated *
11.537	2772	VV	0.076		27.724	* uncalibrated *
11.693	7717	VV	0.114		77.175	* uncalibrated *
12.000	3835	VV	0.094		38.352	* uncalibrated *
12.114	157	VV	0.037		1.571	* uncalibrated *
12.263	1880	PV	0.064		18.801	* uncalibrated *
12.352	512	VBA	0.037		5.121	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 3
ample Name	: V 10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

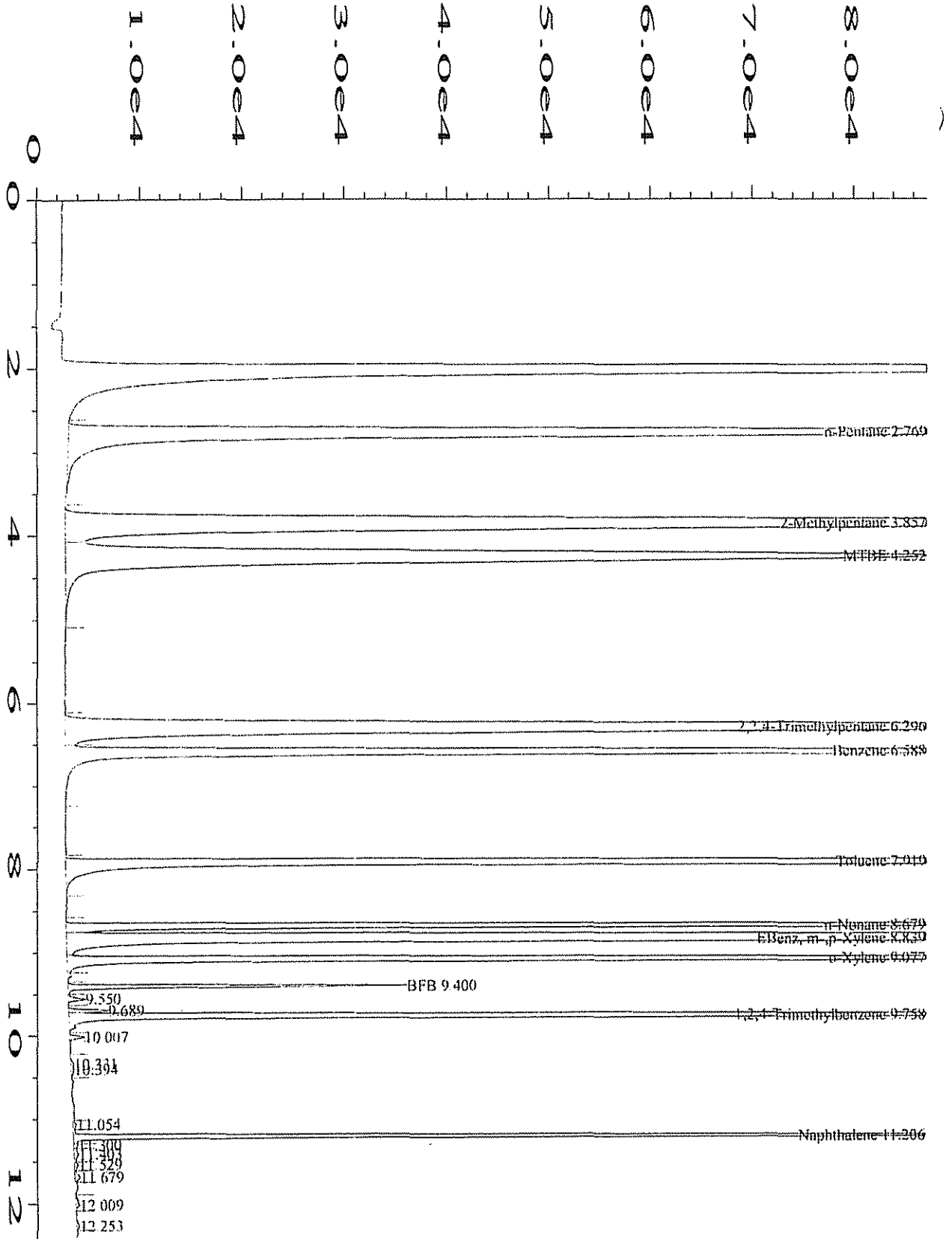
ata File Name : C:\HPCHEM\1\DATA\vp071405\004F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
in Time Bar Code:
cquired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\004F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.769	838621	BB	0.089	1	1660.550	n-Pentane
3.857	1066067	BV	0.120	1	1319.603	2-Methylpentane
4.252	758973	VB	0.136	1	17730.02	MTBE
6.296	873405	VV	0.104	1	1688.183	2,2,4-Trimethylpentane
6.588	664162	VB	0.057	1	559.504	Benzene
7.919	1883722	BV	0.039	1	1845.051	Toluene
8.679	570597	BV	0.037	1	739.268	n-Nonane
8.839	2915194	VV	0.042	1	2980.747	EBenz, m-,p-Xylene
9.077	1160395	VV	0.033	1	1200.910	o-Xylene
9.400	60522	VV	0.047	1	233.128	BFB
9.758	1004871	VV	0.031	1	1126.930	1,2,4-Trimethylbenzene
11.206	345847	VV	0.048	1	-1939.058	Naphthalene
9.550	3820	VV	0.037		38.201	* uncalibrated *
9.689	7049	PV	0.031		70.490	* uncalibrated *
10.007	2929	VV	0.046		29.285	* uncalibrated *
10.331	1325	PV	0.061		13.252	* uncalibrated *
10.394	1460	VV	0.068		14.603	* uncalibrated *
11.054	1474	VV	0.063		14.739	* uncalibrated *
11.300	1054	VV	0.044		10.538	* uncalibrated *
11.403	2641	VV	0.081		26.411	* uncalibrated *
11.529	1510	VV	0.059		15.104	* uncalibrated *
11.679	2410	VV	0.076		24.101	* uncalibrated *
12.009	1748	PV	0.067		17.479	* uncalibrated *
12.253	1115	PV	0.066		11.146	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\004F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: V 250	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:40 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

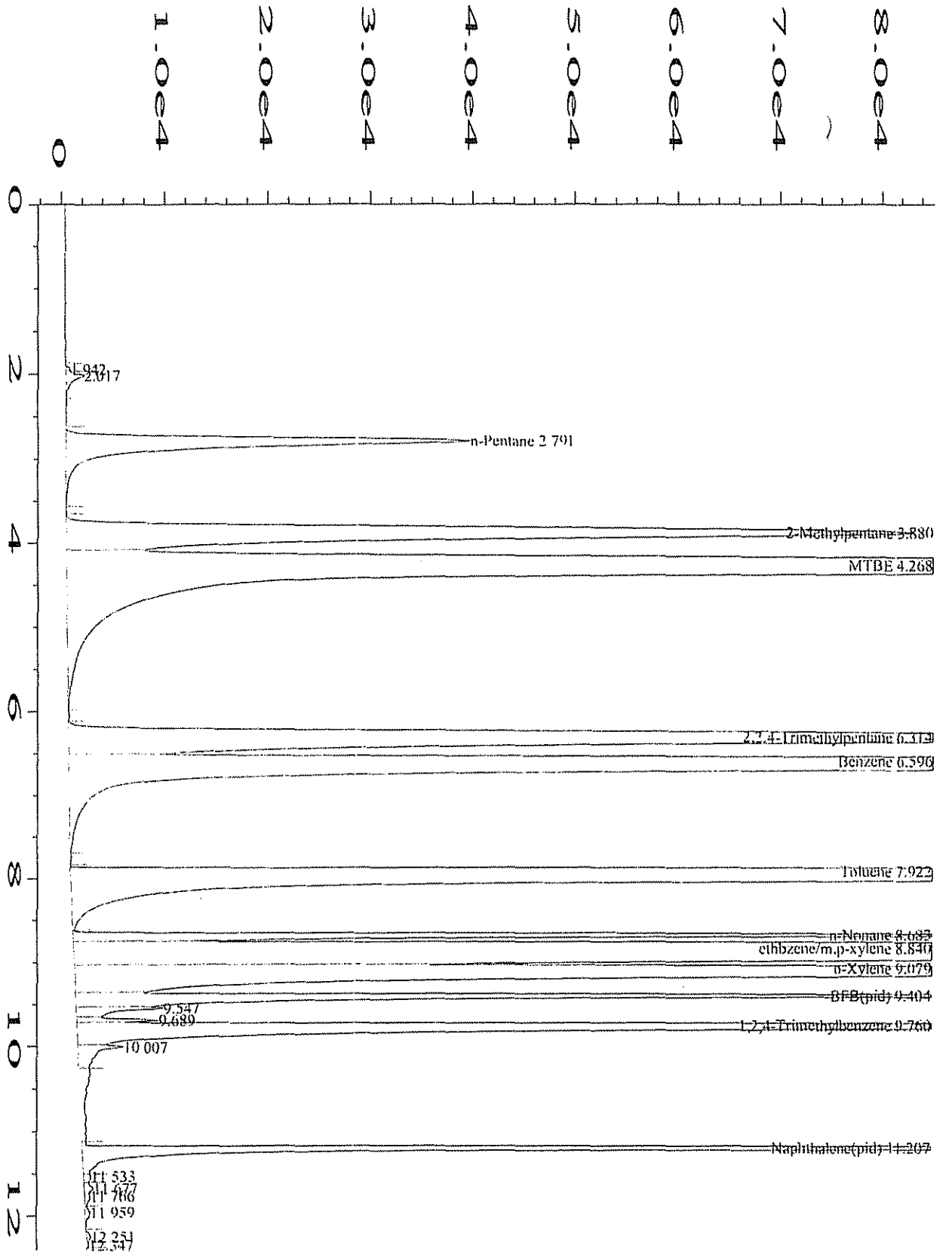
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\004R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
un Time Bar Code:
cquired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\004R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.791	326414	BB	0.122	1	52.051	n-Pentane
3.880	788591	BV	0.147	1	83.508	2-Methylpentane
4.268	3099474	VV	0.160	1	102.826	MTBE
6.314	1282014	VV	0.126	1	84.257	2,2,4-Trimethylpentane
6.596	3691908	VV	0.079	1	46.402	Benzene
7.922	6251271	PV	0.051	1	153.203	Toluene
8.683	368250	VV	0.044	1	54.256	n-Nonane
8.840	8393130	VV	0.057	1	248.133	ethbzene/m,p-xylene
9.079	3321363	VV	0.052	1	85.749	o-Xylene
9.404	457587	VV	0.042	1	30.798	BFB(pid)
9.760	2254703	VV	0.039	1	73.438	1,2,4-Trimethylbenzene
11.207	934074	VV	0.082	1	53.367	Naphthalene(pid)
1.942	1179	BV	0.042		11.788	* uncalibrated *
2.017	9688	VV	0.076		96.879	* uncalibrated *
9.547	34471	VV	0.067		344.714	* uncalibrated *
9.689	18711	VV	0.039		187.113	* uncalibrated *
10.007	31886	VV	0.092		318.858	* uncalibrated *
11.533	3651	VV	0.072		36.513	* uncalibrated *
11.677	5019	VV	0.083		50.185	* uncalibrated *
11.766	3250	VV	0.091		32.495	* uncalibrated *
11.959	4071	VV	0.110		40.709	* uncalibrated *
12.251	2050	PV	0.072		20.501	* uncalibrated *
12.347	360	VBA	0.042		3.600	* uncalibrated *



ata File Name : C:\HPCHEM\1\DATA\vp071405\004R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
un Time Bar Code:
cquired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

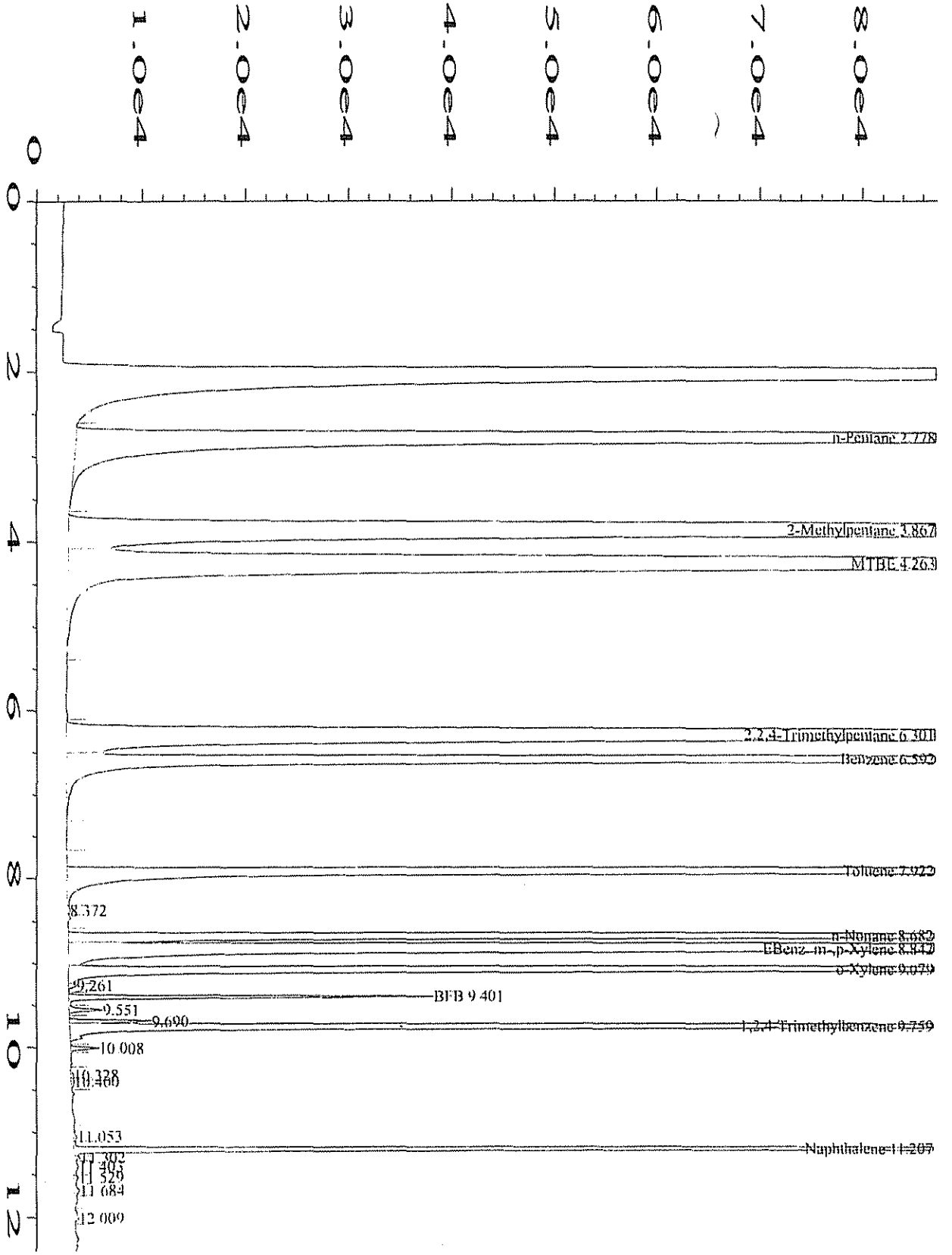
ıta File Name : C:\HPCHEM\1\DATA\vp071405\005F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 500
ın Time Bar Code:
ɔquired on : 14 Jul 05 10:05 AM
ɜport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ıg. 1 in C:\HPCHEM\1\DATA\vp071405\005F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.778	1742970	BV	0.094	1	4265.646	n-Pentane
3.867	2181370	PV	0.119	1	3248.649	2-Methylpentane
4.263	1736534	VB	0.137	1	51020.45	MTBE
6.301	1977652	VV	0.104	1	4892.879	2,2,4-Trimethylpentane
6.592	1408771	VB	0.057	1	1352.853	Benzene
7.922	3903076	BV	0.038	1	4578.974	Toluene
8.682	1826421	BV	0.036	1	2874.951	n-Nonane
8.842	6104778	VV	0.037	1	7836.609	EBenz, m-,p-Xylene
9.079	2396482	VV	0.033	1	3095.254	o-Xylene
9.401	66026	VV	0.030	1	254.328	BFB
9.759	2056422	VV	0.031	1	2943.913	1,2,4-Trimethylbenzene
11.207	774715	VV	0.026	1	-6752.609	Naphthalene
8.372	1147	VV	0.077		11.466	* uncalibrated *
9.261	2099	VV	0.041		20.990	* uncalibrated *
9.551	7152	VV	0.035		71.523	* uncalibrated *
9.690	14866	PV	0.030		148.660	* uncalibrated *
10.008	5222	PV	0.031		52.219	* uncalibrated *
10.328	1278	BV	0.068		12.776	* uncalibrated *
10.400	1644	VV	0.076		16.440	* uncalibrated *
11.053	2238	VV	0.072		22.384	* uncalibrated *
11.302	1855	VV	0.037		18.548	* uncalibrated *
11.403	3419	VV	0.093		34.188	* uncalibrated *
11.529	2004	VV	0.064		20.038	* uncalibrated *
11.684	2784	VV	0.076		27.841	* uncalibrated *
12.009	2112	VV	0.074		21.116	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\005F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

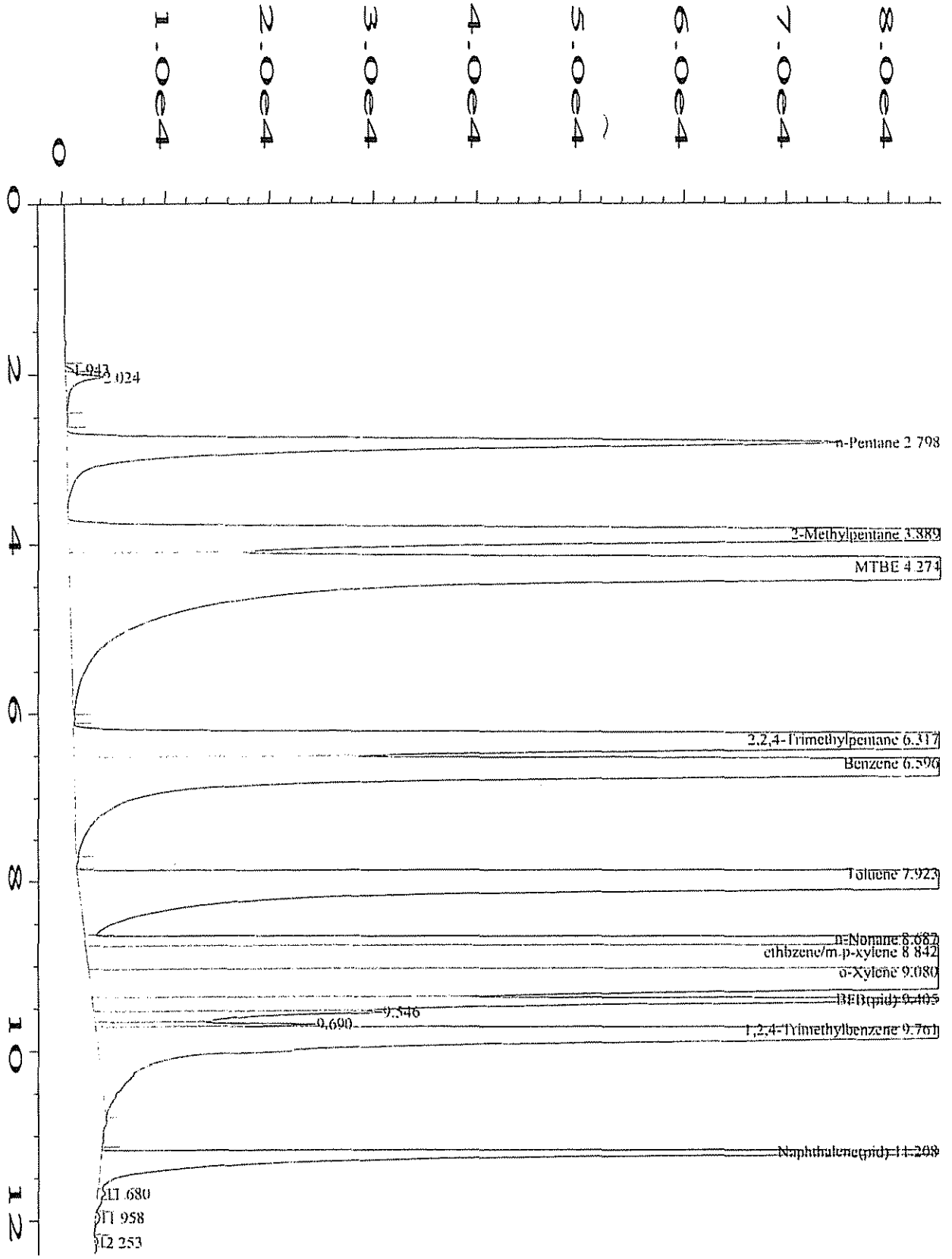
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\005R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 14 Jul 05 10:05 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\005R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.798	665272	BV	0.127	1	106.086	n-Pentane
3.889	1610206	PV	0.145	1	170.513	2-Methylpentane
4.274	6890871	VV	0.166	1	228.607	MTBE
6.317	2946490	VV	0.131	1	193.649	2,2,4-Trimethylpentane
6.596	6903642	VV	0.081	1	86.770	Benzene
7.923	1.17723E+007	PV	0.054	1	288.510	Toluene
8.687	1339610	VV	0.048	1	197.371	n-Nonane
8.842	1.61892E+007	VV	0.052	1	478.613	ethbzene/m,p-xylene
9.080	7706672	VV	0.051	1	198.967	o-Xylene
9.405	731569	VV	0.053	1	49.238	BFB(pid)
9.761	5207830	VV	0.039	1	169.623	1,2,4-Trimethylbenzene
11.208	2227832	PV	0.031	1	127.284	Naphthalene(pid)
1.943	2003	BV	0.040		20.035	* uncalibrated *
2.024	23244	VB	0.084		232.435	* uncalibrated *
9.546	133527	VV	0.079		1335.268	* uncalibrated *
9.690	55487	VV	0.038		554.872	* uncalibrated *
11.680	4387	VV	0.078		43.866	* uncalibrated *
11.958	3333	VV	0.106		33.335	* uncalibrated *
12.253	1461	PV	0.068		14.609	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

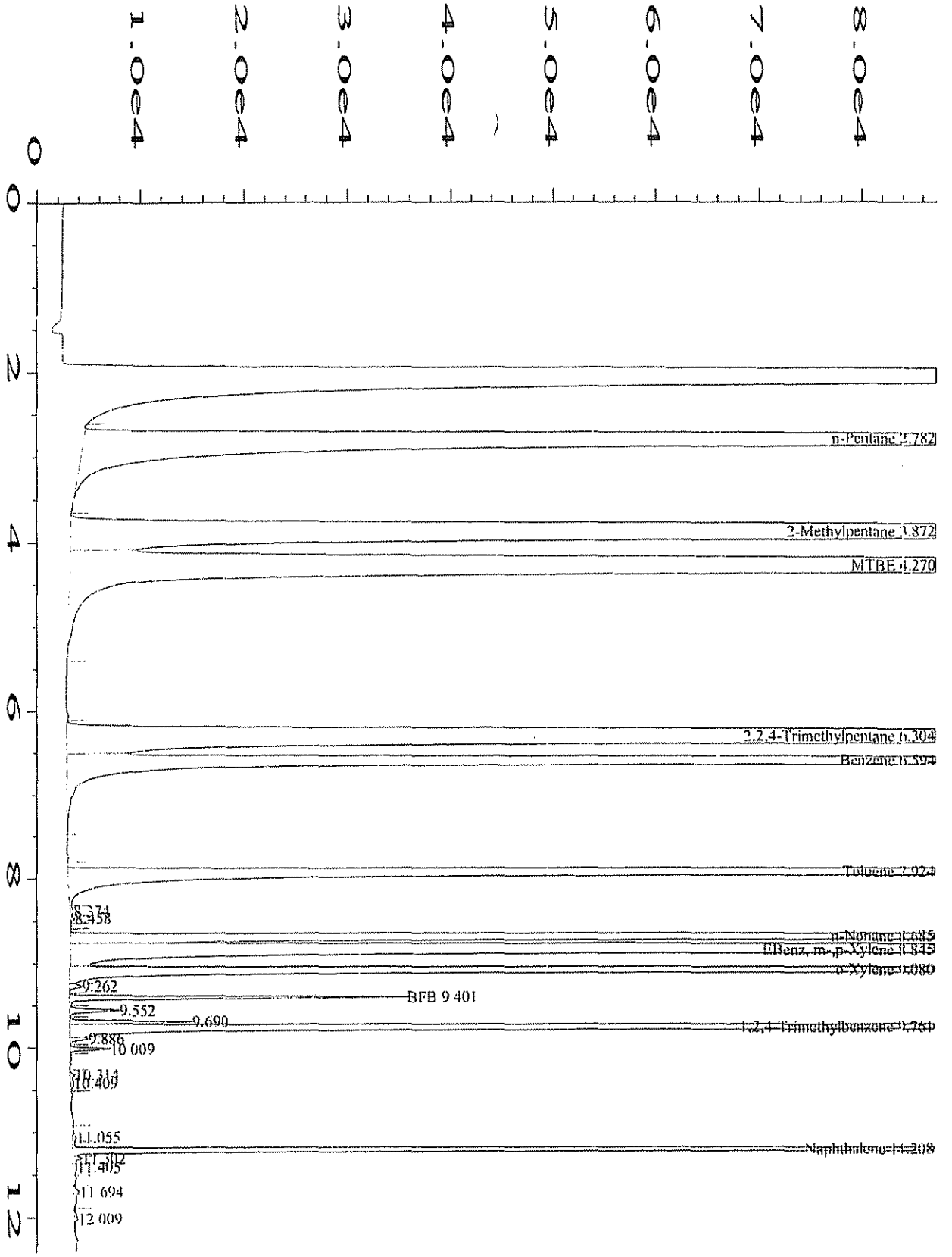
ata File Name : C:\HPCHEM\1\DATA\vp071405\006F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 750
un Time Bar Code:
cquired on : 14 Jul 05 10:30 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.782	2652861	BV	0.097	1	6886.704	n-Pentane
3.872	3424588	PV	0.119	1	5398.938	2-Methylpentane
4.270	2615165	VB	0.136	1	80941.89	MTBE
6.304	3347705	VV	0.105	1	8868.986	2,2,4-Trimethylpentane
6.594	2207719	VV	0.057	1	2204.097	Benzene
7.924	5984413	BV	0.037	1	7396.813	Toluene
8.685	3017734	BV	0.036	1	4900.926	n-Nonane
8.845	9264266	VV	0.036	1	12646.65	EBenz, m-,p-Xylene
9.080	3555046	VV	0.033	1	4870.791	o-Xylene
9.401	63490	PV	0.030	1	244.560	BFB
9.761	3032646	VV	0.030	1	4630.738	1,2,4-Trimethylbenzene
11.208	1137876	VV	0.026	1	-10828.67	Naphthalene
8.374	1497	VV	0.074		14.971	* uncalibrated *
8.458	1134	VB	0.043		11.342	* uncalibrated *
9.262	3166	VV	0.040		31.660	* uncalibrated *
9.552	11093	VV	0.035		110.925	* uncalibrated *
9.690	23714	VV	0.031		237.136	* uncalibrated *
9.886	3865	VV	0.036		38.648	* uncalibrated *
10.009	7822	VV	0.031		78.224	* uncalibrated *
10.314	1455	PV	0.044		14.550	* uncalibrated *
10.409	1722	VV	0.094		17.218	* uncalibrated *
11.055	2011	VV	0.072		20.107	* uncalibrated *
11.302	2878	VV	0.043		28.781	* uncalibrated *
11.405	2499	VV	0.082		24.985	* uncalibrated *
11.694	4348	VV	0.107		43.479	* uncalibrated *
12.009	1945	VV	0.073		19.448	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\006F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:30 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

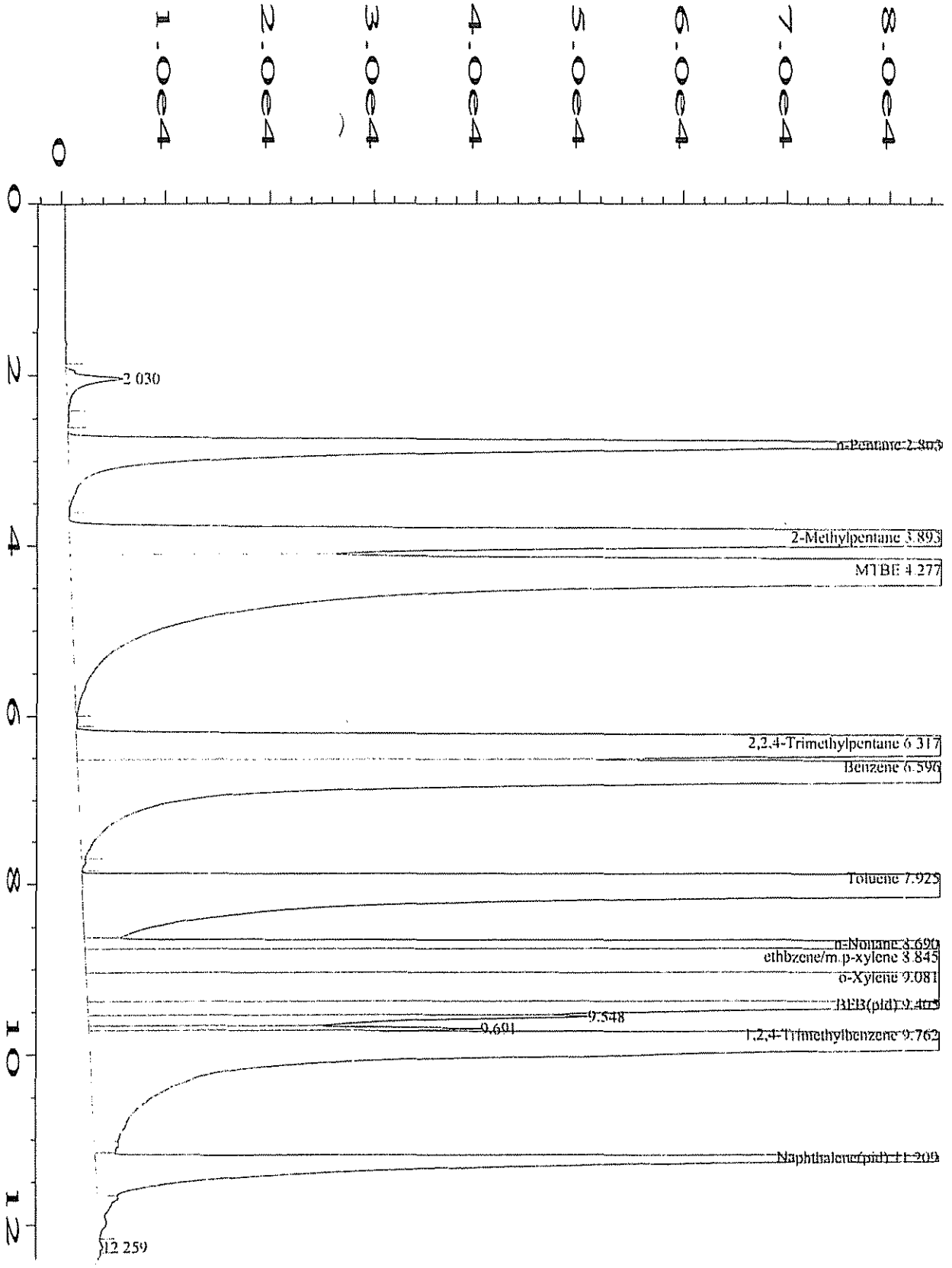
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\006R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 750
in Time Bar Code:
cquired on : 14 Jul 05 10:30 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\006R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.803	975481	BV	0.134	1	155.553	n-Pentane
3.893	2424534	PV	0.149	1	256.747	2-Methylpentane
4.277	9621048	VV	0.170	1	319.182	MTBE
6.317	4725068	PV	0.132	1	310.541	2,2,4-Trimethylpentane
6.596	9633231	VV	0.083	1	121.077	Benzene
7.925	1.64822E+007	PV	0.055	1	403.937	Toluene
8.690	2120721	VV	0.048	1	312.456	n-Nonane
8.845	2.20006E+007	VV	0.053	1	650.422	ethbzene/m,p-xylene
9.081	1.12653E+007	VV	0.053	1	290.842	o-Xylene
9.405	956172	VV	0.098	1	64.355	BFB(pid)
9.762	8311246	VV	0.043	1	270.704	1,2,4-Trimethylbenzene
11.209	3517427	VV	0.057	1	200.962	Naphthalene(pid)
2.030	38178	BV	0.091		381.778	* uncalibrated *
9.548	252959	VV	0.087		2529.595	* uncalibrated *
9.691	102580	VV	0.039		1025.798	* uncalibrated *
12.259	1377	VV	0.069		13.769	* uncalibrated *



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nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
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eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

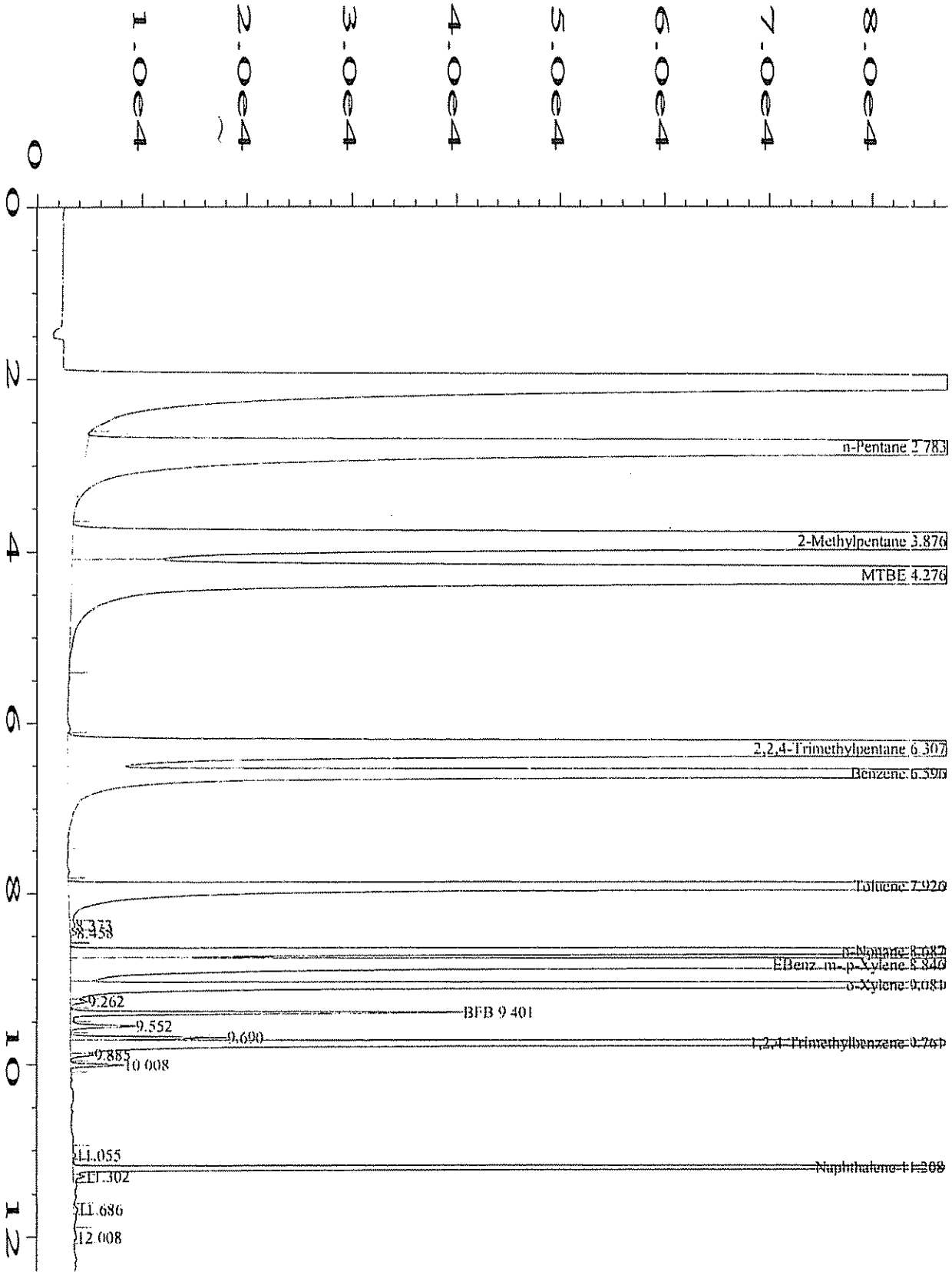
ata File Name : C:\HPCHEM\1\DATA\vp071405\008F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 1000
in Time Bar Code:
cquired on : 14 Jul 05 11:21 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\008F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.783	3704165	BV	0.098	1	9915.121	n-Pentane
3.876	4661301	PV	0.120	1	7537.976	2-Methylpentane
4.276	3978270	VV	0.136	1	127361.9	MTBE
6.307	4551928	VV	0.104	1	12363.83	2,2,4-Trimethylpentane
6.596	3043185	VV	0.057	1	3094.250	Benzene
7.926	8164170	BV	0.037	1	10347.90	Toluene
8.687	4098524	BV	0.036	1	6738.942	n-Nonane
8.846	1.26057E+007	VV	0.035	1	17733.71	EBenz, m-,p-Xylene
9.081	4759327	VV	0.032	1	6716.389	o-Xylene
9.401	72627	VV	0.030	1	279.757	BFB
9.761	3901614	VV	0.030	1	6132.235	1,2,4-Trimethylbenzene
11.208	1571818	VV	0.026	1	-15699.17	Naphthalene
8.373	2545	VV	0.076		25.448	* uncalibrated *
8.458	1897	VB	0.046		18.969	* uncalibrated *
9.262	4665	VV	0.042		46.652	* uncalibrated *
9.552	14161	VV	0.035		141.607	* uncalibrated *
9.690	29684	VV	0.031		296.844	* uncalibrated *
9.885	5004	VV	0.037		50.036	* uncalibrated *
10.008	10327	VV	0.032		103.275	* uncalibrated *
11.055	1037	BV	0.052		10.370	* uncalibrated *
11.302	3169	VV	0.040		31.692	* uncalibrated *
11.686	2006	VV	0.071		20.065	* uncalibrated *
12.008	1448	VV	0.071		14.484	* uncalibrated *

alibration table contains at least one peak with amt = 0



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nstrument	: FID/PID	Vial Number	: 8
ample Name	: V 1000	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 11:21 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp071405\008R0101.D
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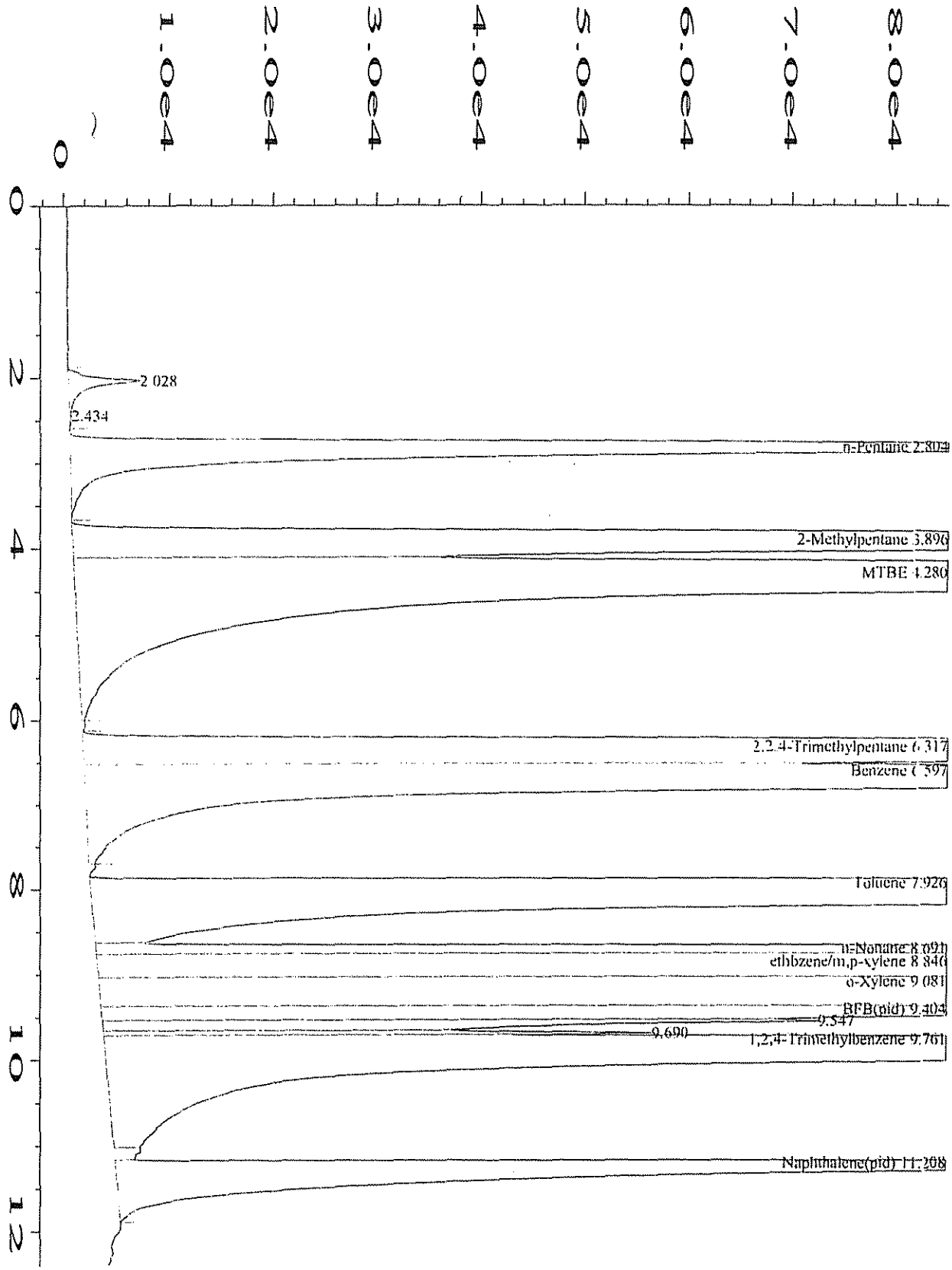
ıstrument : FID/PID
ımple Name : V 1000
ın Time Bar Code:
:quired on : 14 Jul 05 11:21 AM
:port Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

.g. 2 in C:\HPCHEM\1\DATA\vp071405\008R0101.D

:t Time	Area	Type	Width	Ref#	ug/L	Name
2.804	1337647	BV	0.137	1	213.305	n-Pentane
3.896	3236774	PV	0.151	1	342.760	2-Methylpentane
4.280	1.35276E+007	VV	0.173	1	448.783	MTBE
6.317	6150148	VV	0.133	1	404.200	2,2,4-Trimethylpentane
6.597	1.2296E+007	VV	0.083	1	154.545	Benzene
7.926	2.05001E+007	PV	0.056	1	502.405	Toluene
8.691	2706572	VV	0.046	1	398.772	n-Nonane
8.846	2.68764E+007	VV	0.053	1	794.568	ethbzene/m,p-xylene
9.081	1.4125E+007	VV	0.054	1	364.671	o-Xylene
9.404	1283136	VV	0.065	1	86.361	BFB(pid)
9.761	1.07256E+007	VV	0.044	1	349.341	1,2,4-Trimethylbenzene
11.208	5037357	VV	0.057	1	287.801	Naphthalene(pid)
2.028	49839	BV	0.098		498.389	* uncalibrated *
2.434	1338	VB	0.119		13.384	* uncalibrated *
9.547	368835	VV	0.089		3688.351	* uncalibrated *
9.690	144281	VV	0.039		1442.812	* uncalibrated *



ta File Name : C:\HPCHEM\1\DATA\vp071405\008R0101.D
erator : DCS
strument : FID/PID
mple Name : V 1000
n Time Bar Code:
quired on : 14 Jul 05 11:21 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\002F0101.D
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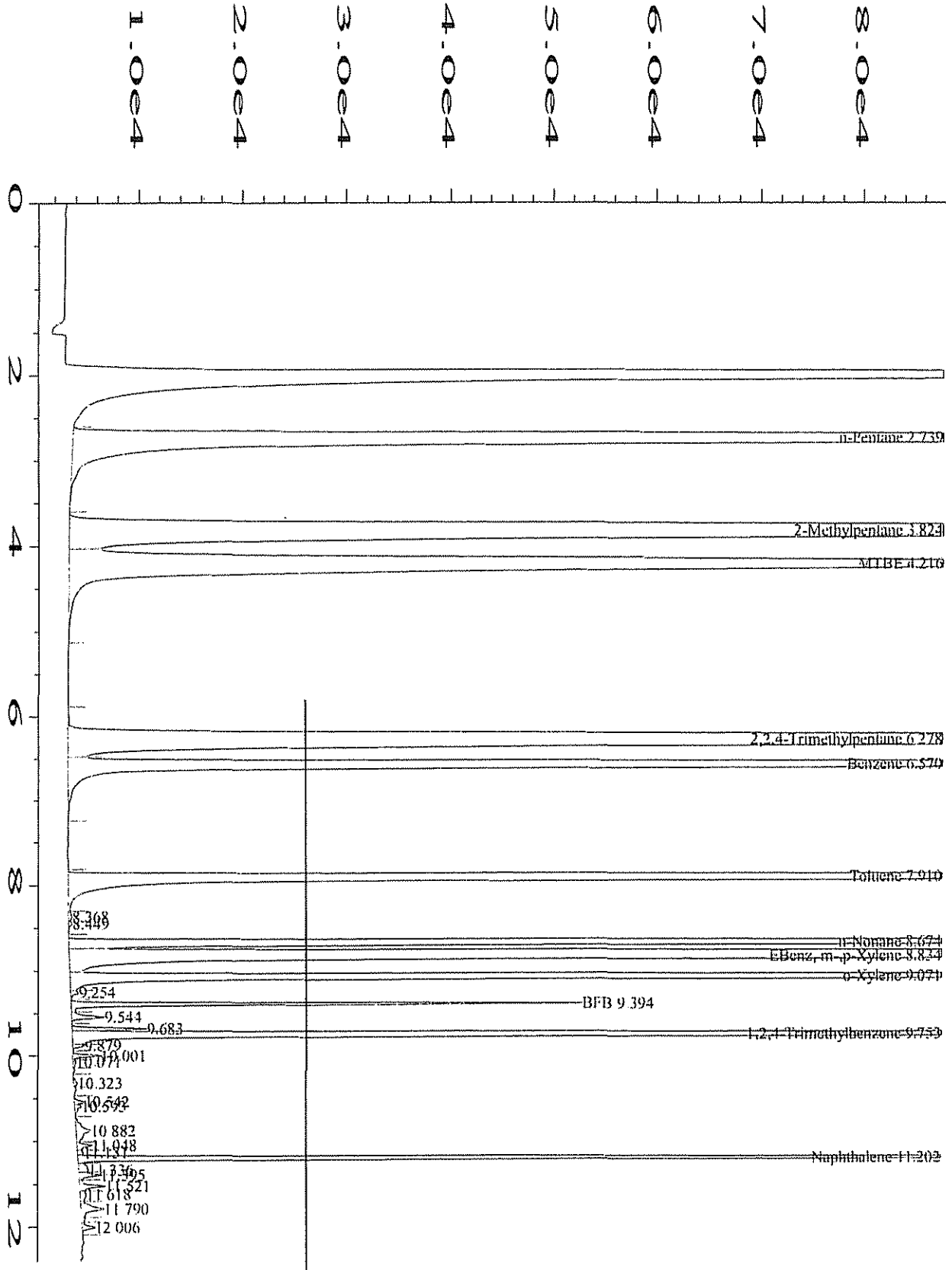
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 25 Jul 05 08:47 AM
eport Created on: 26 Jul 05 11:32 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\002F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.739	1486141	BV	0.088	1	3525.816	n-Pentane
3.824	1925375	PV	0.120	1	2805.876	2-Methylpentane
4.216	1013926	VB	0.138	1	26412.35	MTBE
6.278	1755085	BV	0.106	1	4246.957	2,2,4-Trimethylpentane
6.570	1203088	VB	0.057	1	1133.706	Benzene
7.910	3273247	BV	0.038	1	3726.274	Toluene
8.674	1609684	BV	0.035	1	2506.364	n-Nonane
8.834	5330895	VV	0.037	1	6658.441	EBenz, m-,p-Xylene
9.071	2080804	VV	0.033	1	2611.467	o-Xylene
9.394	90407	VV	0.029	1	348.245	BFB
9.753	1870510	VV	0.031	1	2622.674	1,2,4-Trimethylbenzene
11.202	457620	VV	0.026	1	-3193.576	Naphthalene
8.368	1715	VV	0.068		17.149	* uncalibrated *
8.449	1180	VB	0.048		11.804	* uncalibrated *
9.254	2255	VV	0.043		22.551	* uncalibrated *
9.544	8253	VV	0.039		82.534	* uncalibrated *
9.683	13533	PV	0.030		135.329	* uncalibrated *
9.879	2360	VV	0.035		23.604	* uncalibrated *
10.001	5639	VV	0.032		56.387	* uncalibrated *
10.071	1289	VV	0.058		12.890	* uncalibrated *
10.323	1457	PV	0.057		14.573	* uncalibrated *
10.542	2217	PV	0.035		22.167	* uncalibrated *
10.593	2275	VV	0.050		22.752	* uncalibrated *
10.882	9893	PV	0.091		98.929	* uncalibrated *
11.048	3901	VV	0.040		39.008	* uncalibrated *
11.131	1564	VV	0.046		15.643	* uncalibrated *
11.336	4897	VV	0.068		48.974	* uncalibrated *
11.395	5573	VV	0.040		55.728	* uncalibrated *
11.521	7226	VV	0.042		72.257	* uncalibrated *
11.618	3301	VV	0.082		33.006	* uncalibrated *
11.790	9907	VV	0.062		99.065	* uncalibrated *
12.006	3431	VB	0.041		34.307	* uncalibrated *

alibration table contains at least one peak with amt = 0



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ample Name	: V 500	Injection Number	: 1
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eport Created on	: 26 Jul 05 11:32 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\002R0101.D
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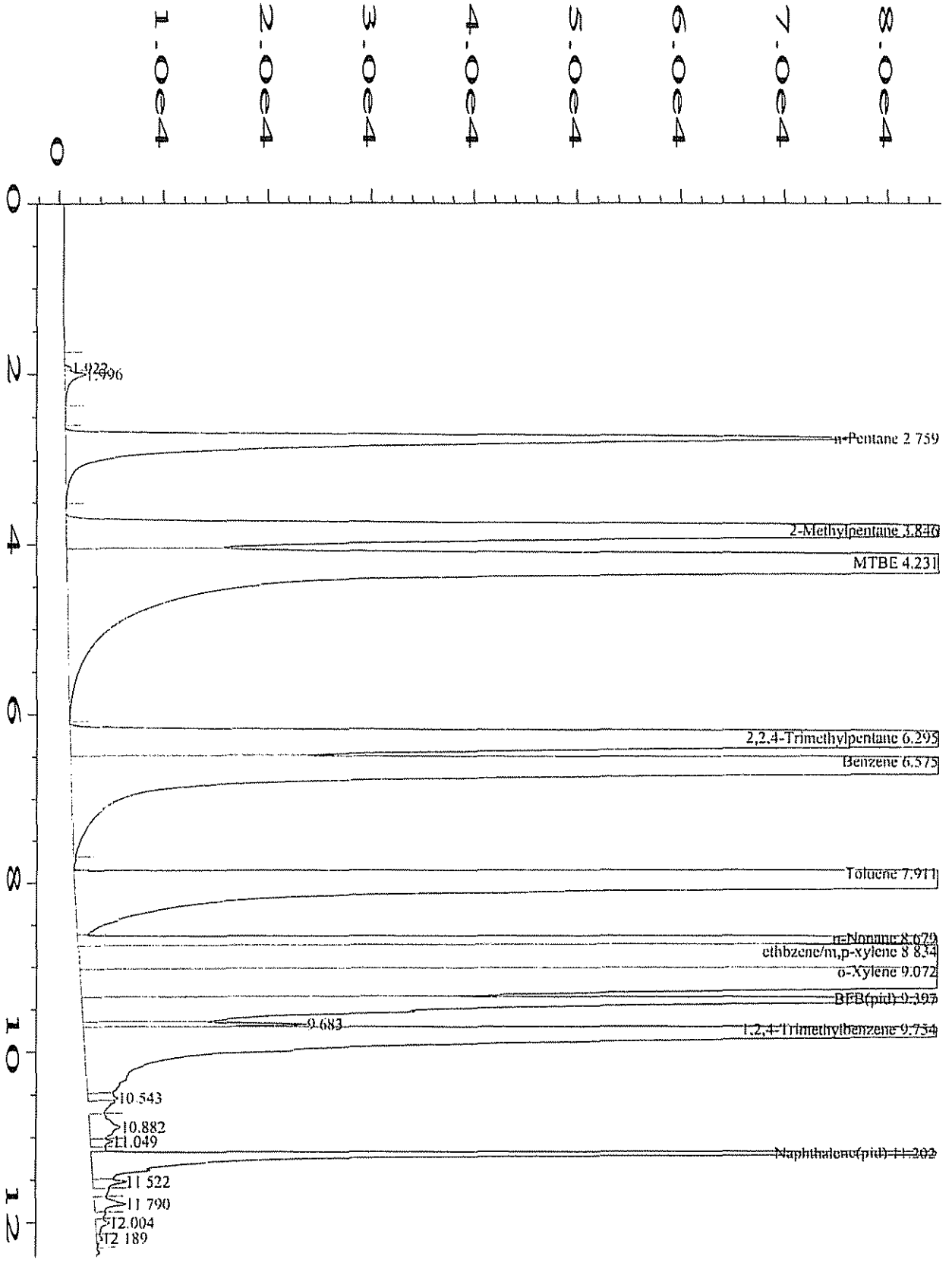
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 25 Jul 05 08:47 AM
eport Created on: 26 Jul 05 11:32 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\002R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.759	641525	BV	0.124	1	102.299	n-Pentane
3.846	1564204	PV	0.143	1	165.642	2-Methylpentane
4.231	4421915	VV	0.166	1	146.699	MTBE
6.295	2774469	PV	0.130	1	182.344	2,2,4-Trimethylpentane
6.575	6380060	VV	0.081	1	80.189	Benzene
7.911	1.06262E+007	PV	0.053	1	260.421	Toluene
8.679	1227776	VV	0.047	1	180.894	n-Nonane
8.834	1.49194E+007	VV	0.051	1	441.073	ethbzene/m,p-xylene
9.072	7125999	VV	0.051	1	183.976	o-Xylene
9.397	1085077	VV	0.056	1	73.031	BFB(pid)
9.754	4860193	VV	0.039	1	158.300	1,2,4-Trimethylbenzene
11.202	1341507	VV	0.031	1	76.645	Naphthalene(pid)
1.922	1923	BV	0.042		19.230	* uncalibrated *
1.996	12302	VB	0.082		123.022	* uncalibrated *
9.683	58786	VV	0.039		587.863	* uncalibrated *
10.543	13909	VV	0.064		139.087	* uncalibrated *
10.882	36659	VV	0.152		366.592	* uncalibrated *
11.049	9305	VV	0.059		93.048	* uncalibrated *
11.522	13037	VV	0.057		130.370	* uncalibrated *
11.790	18777	VV	0.083		187.768	* uncalibrated *
12.004	7614	VV	0.076		76.139	* uncalibrated *
12.189	2751	VV	0.066		27.506	* uncalibrated *



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ɔport Created on	: 26 Jul 05 11:32 AM	Analysis Method	: vph_pid.MTH
ıst Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ıltiplier	: 1	ISTD Amount	:

VPH QC, Blanks Raw Data

External Standard Report

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nstrument : FID/PID
ample Name : vblk4072505a
un Time Bar Code:
cquired on : 25 Jul 05 10:28 AM
eport Created on: 25 Jul 05 02:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.825	1975	BB	0.099	1	0.351	2-Methylpentane
4.282	* not found *			1		MTBE
6.280	5602	VV	0.101	1	1.076	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.912	1559	BV	0.040	1	0.166	Toluene
8.674	14798	BV	0.042	1	3.713	n-Nonane
8.833	3582	VV	0.043	1	0.350	EBenz, m-,p-Xylene
9.124	2076	BV	0.060	1	0.206	o-Xylene
9.394	82062	BV	0.029	1	316.101	BFB
9.754	4882	VB	0.043	1	0.520	1,2,4-Trimethylbenzene
11.203	2312	VV	0.031	1	0.546	Naphthalene
7.267	1305	BV	0.063		13.053	* uncalibrated *
7.375	2869	VV	0.075		28.690	* uncalibrated *
7.503	2116	VB	0.086		21.157	* uncalibrated *
8.374	1463	BV	0.058		14.632	* uncalibrated *
8.451	1127	VB	0.059		11.273	* uncalibrated *
9.519	3402	VV	0.049		34.023	* uncalibrated *
9.998	1095	BV	0.034		10.948	* uncalibrated *
10.107	2394	VV	0.065		23.943	* uncalibrated *
10.318	1263	VV	0.035		12.629	* uncalibrated *
10.550	2783	VV	0.055		27.833	* uncalibrated *
11.522	1755	VB	0.051		17.548	* uncalibrated *
11.758	3156	BV	0.060		31.557	* uncalibrated *
12.006	1599	VB	0.037		15.989	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found

External Standard Report

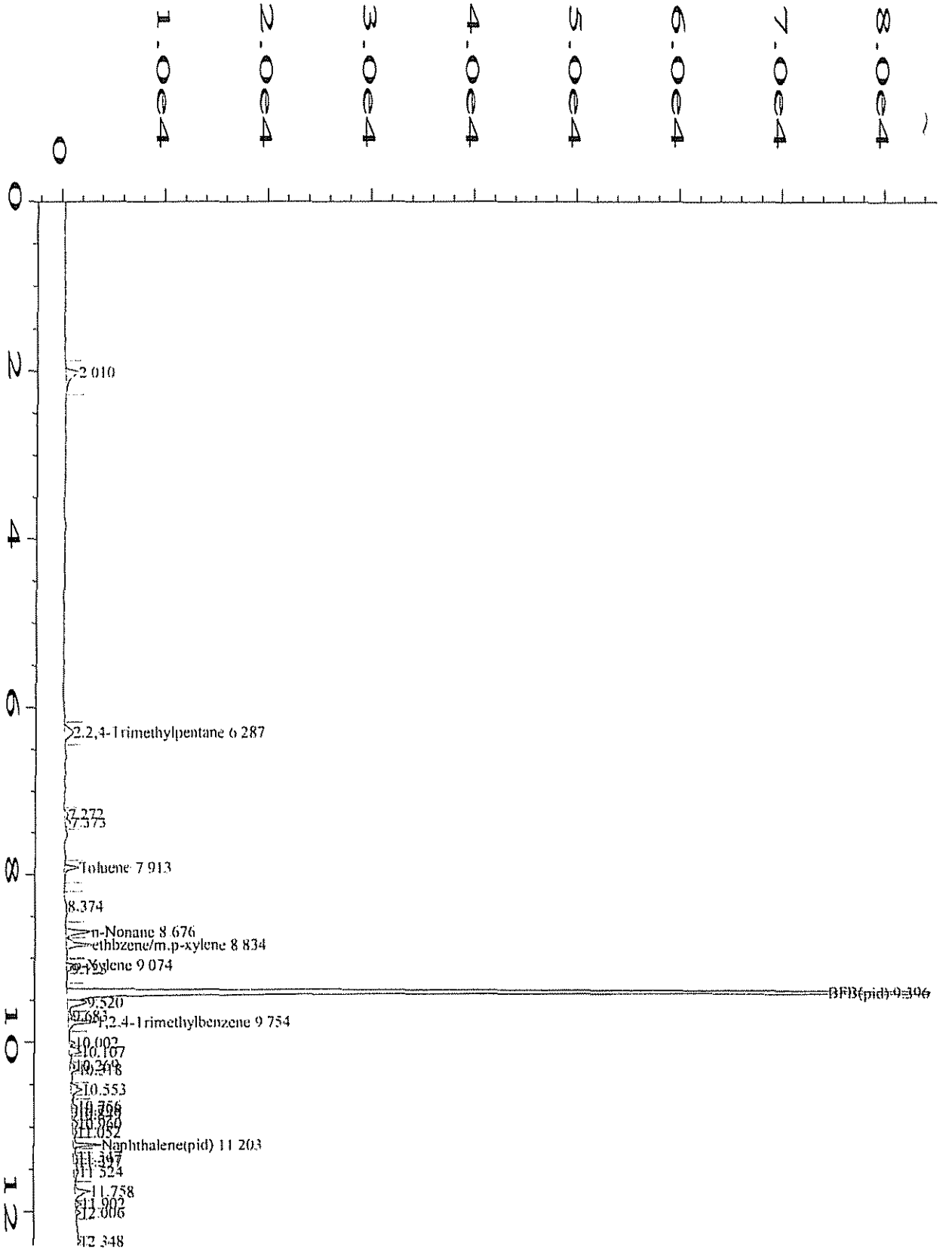
ata File Name : C:\HPCHEM\1\DATA\vp072505\006R0101.D
perator : DCS
nstrument : FID/PID
ample Name : vblk4072505a
un Time Bar Code:
cquired on : 25 Jul 05 10:28 AM
eport Created on: 25 Jul 05 02:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\006R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.287	5489	BV	0.098	1	0.361	2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.913	4349	VV	0.047	1	0.107	Toluene
8.676	7249	BV	0.044	1	1.068	n-Nonane
8.834	7786	VB	0.045	1	0.230	ethbzene/m,p-xylene
9.074	1682	BV	0.036	1	0.0434	o-Xylene
9.396	386870	BV	0.032	1	26.038	BFB(pid)
9.754	7270	VV	0.039	1	0.237	1,2,4-Trimethylbenzene
11.203	5936	VV	0.033	1	0.339	Naphthalene(pid)
2.010	7759	BB	0.084		77.590	* uncalibrated *
7.272	1492	BV	0.063		14.917	* uncalibrated *
7.373	2209	VV	0.070		22.094	* uncalibrated *
8.374	555	BV	0.056		5.546	* uncalibrated *
9.123	1091	VV	0.041		10.912	* uncalibrated *
9.520	7449	VV	0.060		74.487	* uncalibrated *
9.683	1456	VV	0.050		14.562	* uncalibrated *
10.002	1359	VV	0.039		13.589	* uncalibrated *
10.107	4406	VV	0.053		44.061	* uncalibrated *
10.269	1246	VV	0.041		12.464	* uncalibrated *
10.318	1968	VV	0.036		19.681	* uncalibrated *
10.553	4972	VV	0.059		49.723	* uncalibrated *
10.756	1834	VV	0.054		18.342	* uncalibrated *
10.798	1338	VV	0.035		13.382	* uncalibrated *
10.849	1701	VV	0.045		17.011	* uncalibrated *
10.960	2167	VV	0.064		21.668	* uncalibrated *
11.052	1670	VV	0.062		16.700	* uncalibrated *
11.347	1243	VV	0.050		12.433	* uncalibrated *
11.397	1170	VV	0.039		11.696	* uncalibrated *
11.524	2259	VV	0.061		22.595	* uncalibrated *
11.758	5776	VV	0.051		57.760	* uncalibrated *
11.902	1444	VV	0.038		14.436	* uncalibrated *
12.006	1486	VB	0.047		14.859	* uncalibrated *
12.348	826	VBA	0.044		8.260	* uncalibrated *

ot all calibrated peaks were found



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nstrument	: FID/PID	Vial Number	: 6
ample Name	: vblk4072505a	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 10:28 AM	Instrument Method:	GAS1.MTH
eport Created on:	25 Jul 05 02:08 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\012F0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4072505b
un Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

456

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\012F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.754	44665	BV	0.085	1	44.550	n-Pentane
3.840	64856	BV	0.126	1	11.519	2-Methylpentane
4.179	61429	VV	0.164	1	143.999	MTBE
6.287	55363	VV	0.113	1	10.634	2,2,4-Trimethylpentane
6.578	62478	VV	0.088	1	7.918	Benzene
7.914	198102	VV	0.040	1	21.029	Toluene
8.675	9495	VV	0.048	1	2.382	n-Nonane
8.834	194688	VV	0.040	1	19.032	EBenz, m-,p-Xylene
9.073	65904	VV	0.047	1	6.543	o-Xylene
9.396	83536	PV	0.029	1	321.779	BFB
9.754	86703	VV	0.047	1	9.228	1,2,4-Trimethylbenzene
11.204	4987	VV	0.032	1	1.177	Naphthalene
2.978	16746	PV	0.071		167.461	* uncalibrated *
3.175	29950	VB	0.109		299.501	* uncalibrated *
4.499	33585	VV	0.111		335.854	* uncalibrated *
4.818	23565	PV	0.175		235.648	* uncalibrated *
5.066	13988	VV	0.121		139.884	* uncalibrated *
5.190	11494	VV	0.106		114.936	* uncalibrated *
5.447	23207	VV	0.109		232.073	* uncalibrated *
5.766	1805	PV	0.093		18.047	* uncalibrated *
5.936	20267	VV	0.088		202.670	* uncalibrated *
6.063	47565	VV	0.142		475.650	* uncalibrated *
6.719	9210	VV	0.074		92.101	* uncalibrated *
6.808	7555	VV	0.066		75.547	* uncalibrated *
6.966	18358	VV	0.107		183.577	* uncalibrated *
7.103	11761	VV	0.073		117.614	* uncalibrated *
7.269	24182	VV	0.073		241.821	* uncalibrated *
7.376	38200	VV	0.076		381.998	* uncalibrated *
7.511	24207	VV	0.091		242.072	* uncalibrated *
7.784	15032	VV	0.065		150.320	* uncalibrated *
8.047	8835	VV	0.103		88.353	* uncalibrated *
8.372	12495	VV	0.065		124.954	* uncalibrated *
8.453	5949	VV	0.047		59.489	* uncalibrated *
9.196	2007	VV	0.036		20.073	* uncalibrated *
9.257	5071	VV	0.038		50.710	* uncalibrated *
9.521	105949	VV	0.053		1059.492	* uncalibrated *
9.684	18360	VV	0.034		183.598	* uncalibrated *
9.886	2895	VV	0.048		28.952	* uncalibrated *
10.003	18521	VV	0.032		185.213	* uncalibrated *
10.107	34008	VV	0.052		340.080	* uncalibrated *
10.176	12435	VV	0.044		124.349	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\012F0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4072505b
un Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.267	13515	VV	0.041	135.150	* uncalibrated *
10.317	14617	VV	0.037	146.166	* uncalibrated *
10.393	3801	VV	0.044	38.007	* uncalibrated *
10.441	2963	VV	0.035	29.628	* uncalibrated *
10.554	25111	VV	0.066	251.113	* uncalibrated *
10.640	3005	VV	0.042	30.053	* uncalibrated *
10.757	15037	VV	0.067	150.372	* uncalibrated *
10.849	7373	VV	0.037	73.727	* uncalibrated *
10.967	7664	VV	0.064	76.637	* uncalibrated *
11.050	6339	VV	0.077	63.389	* uncalibrated *
11.347	2293	VV	0.047	22.934	* uncalibrated *
11.478	2415	VV	0.055	24.154	* uncalibrated *
11.524	2607	VV	0.069	26.073	* uncalibrated *
11.758	3791	VV	0.041	37.914	* uncalibrated *
11.903	1222	VV	0.038	12.216	* uncalibrated *

alibration table contains at least one peak with amt = 0

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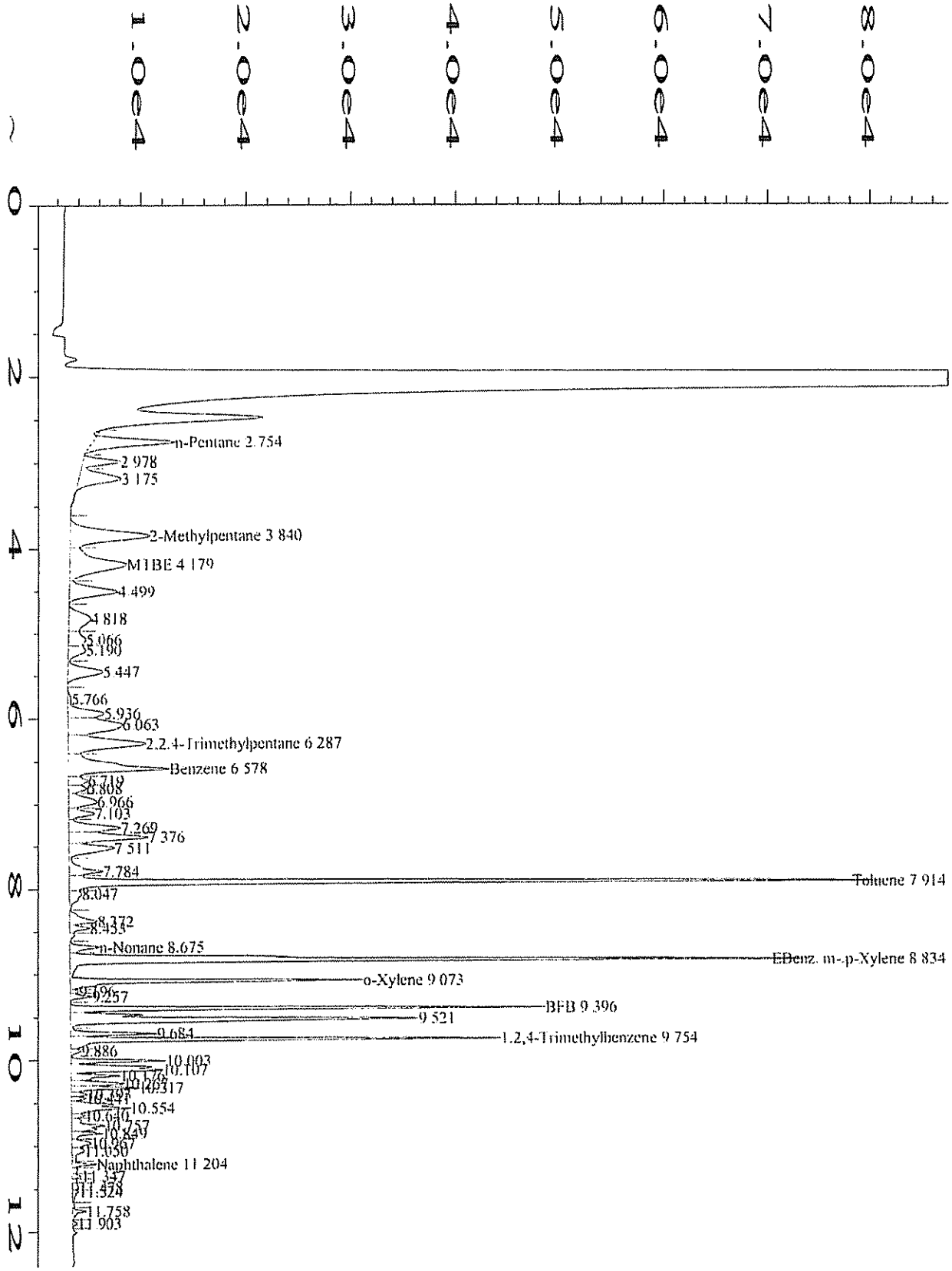

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nstrument	: FID/PID	Vial Number	: 12
mple Name	: lcs4072505b	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 03:03 PM	Instrument Method:	GAS1.MTH
eport Created on:	25 Jul 05 03:16 PM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\012R0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4072505b
un Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\012R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.801	62328	VV	0.142	1	9.939	n-Pentane
3.854	56357	VV	0.156	1	5.968	2-Methylpentane
4.234	78364	VV	0.162	1	2.600	MTBE
6.297	69783	VV	0.128	1	4.586	2,2,4-Trimethylpentane
6.588	193623	VV	0.079	1	2.434	Benzene
7.917	512107	VV	0.044	1	12.550	Toluene
8.678	5963	VV	0.055	1	0.879	n-Nonane
8.835	421811	VV	0.042	1	12.470	ethbzene/m,p-xylene
9.074	117931	VV	0.037	1	3.045	o-Xylene
9.398	393924	PV	0.033	1	26.513	BFB(pid)
9.754	161507	VV	0.034	1	5.260	1,2,4-Trimethylbenzene
11.204	9619	VV	0.030	1	0.550	Naphthalene(pid)
2.032	62261	VV	0.083		622.606	* uncalibrated *
2.150	31033	VV	0.081		310.334	* uncalibrated *
2.497	70690	VV	0.138		706.898	* uncalibrated *
2.983	58000	VV	0.088		580.004	* uncalibrated *
3.177	90335	VV	0.148		903.353	* uncalibrated *
4.035	18189	VV	0.096		181.889	* uncalibrated *
4.484	33575	VV	0.138		335.746	* uncalibrated *
4.816	43684	VV	0.176		436.844	* uncalibrated *
5.062	13306	VV	0.098		133.061	* uncalibrated *
5.195	21258	VV	0.122		212.575	* uncalibrated *
5.456	13945	VV	0.117		139.452	* uncalibrated *
5.765	2323	PV	0.096		23.226	* uncalibrated *
6.060	60886	VV	0.140		608.857	* uncalibrated *
6.807	11525	VV	0.067		115.249	* uncalibrated *
6.977	16543	VV	0.098		165.431	* uncalibrated *
7.109	16136	VV	0.074		161.365	* uncalibrated *
7.276	28340	VV	0.071		283.396	* uncalibrated *
7.378	48691	VV	0.084		486.914	* uncalibrated *
7.518	25802	VV	0.094		258.024	* uncalibrated *
7.783	14750	VV	0.085		147.495	* uncalibrated *
8.365	11759	VV	0.085		117.586	* uncalibrated *
8.455	5486	VV	0.051		54.861	* uncalibrated *
9.196	1500	VV	0.036		15.004	* uncalibrated *
9.258	7564	VV	0.038		75.638	* uncalibrated *
9.467	23274	VV	0.028		232.743	* uncalibrated *
9.523	185628	VV	0.052		1856.284	* uncalibrated *
9.685	28694	VV	0.035		286.936	* uncalibrated *
9.885	4689	VV	0.050		46.894	* uncalibrated *
10.004	29127	VV	0.032		291.274	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\012R0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4072505b
un Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.107	56973	VV	0.051	569.732	* uncalibrated *
10.176	20174	VV	0.045	201.739	* uncalibrated *
10.268	20694	VV	0.041	206.939	* uncalibrated *
10.317	21392	VV	0.037	213.915	* uncalibrated *
10.394	4740	VV	0.041	47.396	* uncalibrated *
10.441	4197	VV	0.035	41.967	* uncalibrated *
10.555	41377	VV	0.075	413.766	* uncalibrated *
10.640	3931	VV	0.038	39.308	* uncalibrated *
10.757	21892	VV	0.065	218.916	* uncalibrated *
10.849	10161	VV	0.036	101.606	* uncalibrated *
10.969	10883	VV	0.064	108.829	* uncalibrated *
11.036	7230	VV	0.092	72.301	* uncalibrated *
11.262	2321	VV	0.055	23.205	* uncalibrated *
11.347	2933	VV	0.047	29.327	* uncalibrated *
11.478	5542	VV	0.079	55.422	* uncalibrated *
11.758	6058	VV	0.036	60.585	* uncalibrated *
11.902	1671	VV	0.032	16.714	* uncalibrated *
12.352	409	VBA	0.036	4.093	* uncalibrated *

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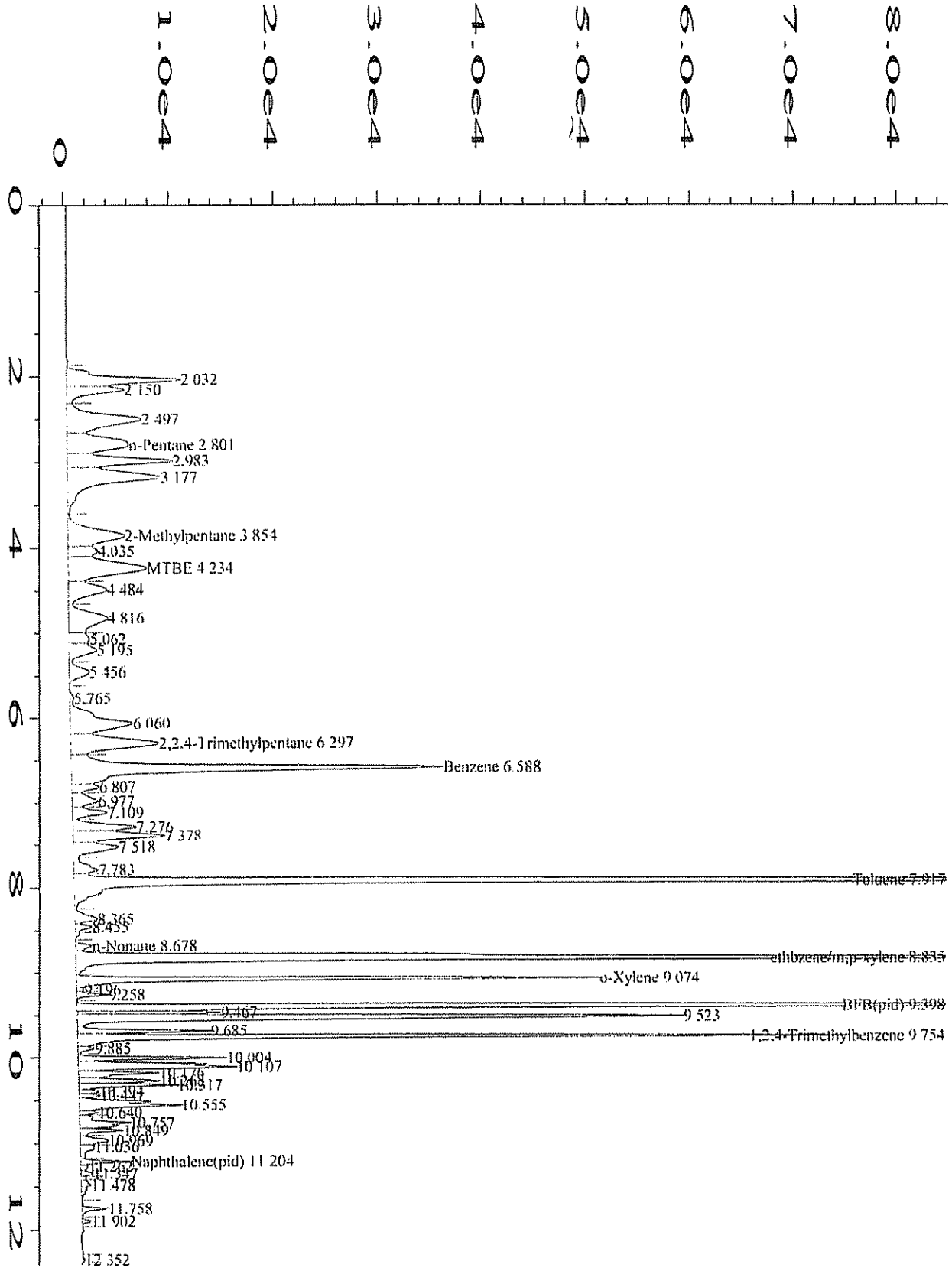

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nstrument : FID/PID
ample Name : lcs4072505b
in Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp072505\014F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : g161-2077-1a ms
ın Time Bar Code:
:quired on : 25 Jul 05 03:57 PM
ɔport Created on: 26 Jul 05 07:56 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

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501

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ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.760	46232	BV	0.084	1	46.114	n-Pentane
3.889	92099	VV	0.106	1	16.358	2-Methylpentane
4.194	61297	VV	0.152	1	143.690	MTBE
6.294	56673	VV	0.113	1	10.885	2,2,4-Trimethylpentane
6.585	66343	VV	0.087	1	8.408	Benzene
7.916	213684	VV	0.040	1	22.683	Toluene
8.675	8453	VV	0.049	1	2.121	n-Nonane
8.834	203405	VV	0.040	1	19.884	EBenz, m-,p-Xylene
9.073	71674	VV	0.047	1	7.116	o-Xylene
9.396	88243	PV	0.030	1	339.913	BFB
9.754	89587	VV	0.051	1	9.535	1,2,4-Trimethylbenzene
11.203	4281	VV	0.031	1	1.010	Naphthalene
2.991	17275	PV	0.070		172.749	* uncalibrated *
3.190	20884	PV	0.081		208.843	* uncalibrated *
3.709	1693	PV	0.035		16.929	* uncalibrated *
4.514	35082	VV	0.107		350.819	* uncalibrated *
4.832	24424	PV	0.169		244.240	* uncalibrated *
5.079	14282	VV	0.118		142.824	* uncalibrated *
5.203	12209	VV	0.106		122.093	* uncalibrated *
5.459	24864	VV	0.106		248.638	* uncalibrated *
5.776	1892	PV	0.090		18.920	* uncalibrated *
5.944	20952	VV	0.086		209.523	* uncalibrated *
6.070	50951	VV	0.123		509.513	* uncalibrated *
6.725	9736	VV	0.073		97.355	* uncalibrated *
6.814	8133	VV	0.065		81.326	* uncalibrated *
6.971	18668	VV	0.107		186.682	* uncalibrated *
7.110	13054	VV	0.072		130.544	* uncalibrated *
7.273	24544	VV	0.072		245.435	* uncalibrated *
7.380	39179	VV	0.076		391.786	* uncalibrated *
7.516	23645	VV	0.089		236.451	* uncalibrated *
7.786	15390	VV	0.064		153.896	* uncalibrated *
8.050	8532	VV	0.114		85.321	* uncalibrated *
8.223	6034	VV	0.037		60.342	* uncalibrated *
8.372	13118	VV	0.063		131.176	* uncalibrated *
8.453	5840	VV	0.044		58.403	* uncalibrated *
9.197	2597	VV	0.036		25.967	* uncalibrated *
9.257	5428	VV	0.038		54.283	* uncalibrated *
9.521	107527	VV	0.053		1075.268	* uncalibrated *
9.685	19439	VV	0.035		194.386	* uncalibrated *
9.890	3262	VV	0.051		32.618	* uncalibrated *
10.003	19136	VV	0.032		191.364	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\014F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2077-1a ms
un Time Bar Code:
cquired on : 25 Jul 05 03:57 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.107	33188	VV	0.052	331.884	* uncalibrated *
10.176	12057	VV	0.044	120.574	* uncalibrated *
10.268	12877	VV	0.048	128.769	* uncalibrated *
10.317	15676	VV	0.039	156.764	* uncalibrated *
10.393	3485	VV	0.039	34.854	* uncalibrated *
10.441	2510	VV	0.033	25.105	* uncalibrated *
10.554	22624	VV	0.070	226.237	* uncalibrated *
10.640	2358	VV	0.041	23.580	* uncalibrated *
10.694	1935	VV	0.045	19.347	* uncalibrated *
10.757	10311	VV	0.056	103.112	* uncalibrated *
10.850	6202	VV	0.034	62.021	* uncalibrated *
10.967	5732	VV	0.061	57.316	* uncalibrated *
11.049	3075	VV	0.058	30.746	* uncalibrated *
11.758	1991	VV	0.032	19.910	* uncalibrated *
11.899	1035	VV	0.037	10.352	* uncalibrated *
12.091	1194	PV	0.045	11.945	* uncalibrated *

alibration table contains at least one peak with amt = 0

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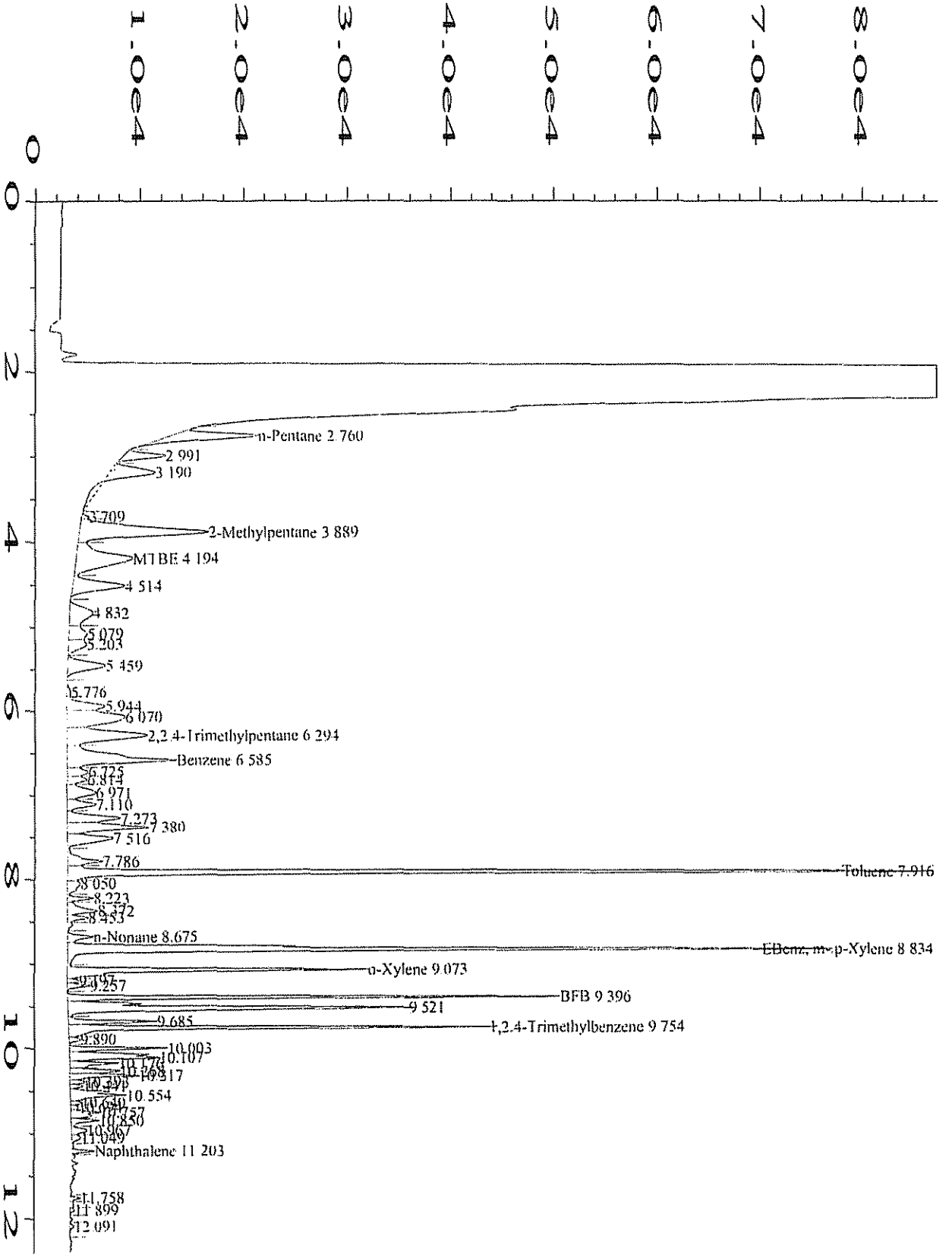

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nstrument	: FID/PID	Vial Number	: 14
ample Name	: g161-2077-1a ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 03:57 PM	Instrument Method:	GAS1.MTH
eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\014R0101.D
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cquired on : 25 Jul 05 03:57 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\014R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.814	79447	VV	0.131	1	12.669	n-Pentane
3.901	86008	VV	0.132	1	9.108	2-Methylpentane
4.269	104051	VV	0.146	1	3.452	MTBE
6.305	75932	VV	0.129	1	4.990	2,2,4-Trimethylpentane
6.596	220204	VV	0.080	1	2.768	Benzene
7.920	561867	VV	0.045	1	13.770	Toluene
8.678	5312	PV	0.056	1	0.783	n-Nonane
8.836	441520	VV	0.042	1	13.053	ethbzene/m,p-xylene
9.074	124760	VV	0.037	1	3.221	o-Xylene
9.399	442748	VV	0.049	1	29.799	BFB(pid)
9.755	165300	VV	0.034	1	5.384	1,2,4-Trimethylbenzene
11.204	10672	VV	0.033	1	0.610	Naphthalene(pid)
1.808	1566	BV	0.053		15.659	* uncalibrated *
2.118	251869	VV	0.116		2518.685	* uncalibrated *
2.495	82487	VV	0.149		824.868	* uncalibrated *
3.001	79860	VV	0.089		798.601	* uncalibrated *
3.195	125285	VV	0.147		1252.852	* uncalibrated *
4.049	24722	VV	0.082		247.215	* uncalibrated *
4.501	41884	VV	0.139		418.842	* uncalibrated *
4.831	50131	VV	0.175		501.309	* uncalibrated *
5.077	15560	VV	0.096		155.599	* uncalibrated *
5.208	23778	VV	0.122		237.777	* uncalibrated *
5.471	16239	VV	0.118		162.388	* uncalibrated *
5.777	2326	PV	0.089		23.258	* uncalibrated *
6.068	66540	VV	0.140		665.405	* uncalibrated *
6.813	12688	VV	0.066		126.882	* uncalibrated *
6.983	17575	VV	0.096		175.746	* uncalibrated *
7.116	18954	VV	0.074		189.538	* uncalibrated *
7.281	29983	VV	0.071		299.831	* uncalibrated *
7.382	51414	VV	0.084		514.141	* uncalibrated *
7.523	25867	VV	0.092		258.669	* uncalibrated *
7.785	15282	VV	0.083		152.817	* uncalibrated *
8.226	6812	VV	0.045		68.124	* uncalibrated *
8.366	12652	VV	0.082		126.523	* uncalibrated *
8.455	5320	VV	0.048		53.197	* uncalibrated *
9.199	2207	VV	0.038		22.070	* uncalibrated *
9.258	8290	VV	0.040		82.901	* uncalibrated *
9.523	188112	VV	0.052		1881.121	* uncalibrated *
9.685	30458	VV	0.039		304.576	* uncalibrated *
9.889	6240	VV	0.057		62.398	* uncalibrated *
10.004	30523	VV	0.033		305.232	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\014R0101.D
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nstrument : FID/PID
ample Name : g161-2077-1a ms
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cquired on : 25 Jul 05 03:57 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.108	56520	VV	0.052	565.196	* uncalibrated *
10.176	20664	VV	0.038	206.642	* uncalibrated *
10.269	20628	VV	0.041	206.283	* uncalibrated *
10.317	22406	VV	0.039	224.062	* uncalibrated *
10.394	5175	VV	0.041	51.750	* uncalibrated *
10.442	4410	VV	0.036	44.101	* uncalibrated *
10.555	39947	VV	0.075	399.469	* uncalibrated *
10.640	3941	VV	0.039	39.409	* uncalibrated *
10.697	3521	VV	0.048	35.208	* uncalibrated *
10.757	17454	VV	0.057	174.537	* uncalibrated *
10.849	10069	VV	0.037	100.689	* uncalibrated *
10.968	10568	VV	0.064	105.676	* uncalibrated *
11.036	2577	VV	0.034	25.770	* uncalibrated *
11.059	3742	VV	0.050	37.422	* uncalibrated *
11.262	2328	VV	0.054	23.281	* uncalibrated *
11.348	3018	VV	0.044	30.176	* uncalibrated *
11.476	4939	VV	0.082	49.387	* uncalibrated *
11.758	4451	VV	0.033	44.512	* uncalibrated *
11.836	2705	VV	0.049	27.050	* uncalibrated *
11.899	2474	VV	0.045	24.737	* uncalibrated *
12.089	1992	PV	0.042	19.923	* uncalibrated *
12.283	645	PV	0.050	6.450	* uncalibrated *

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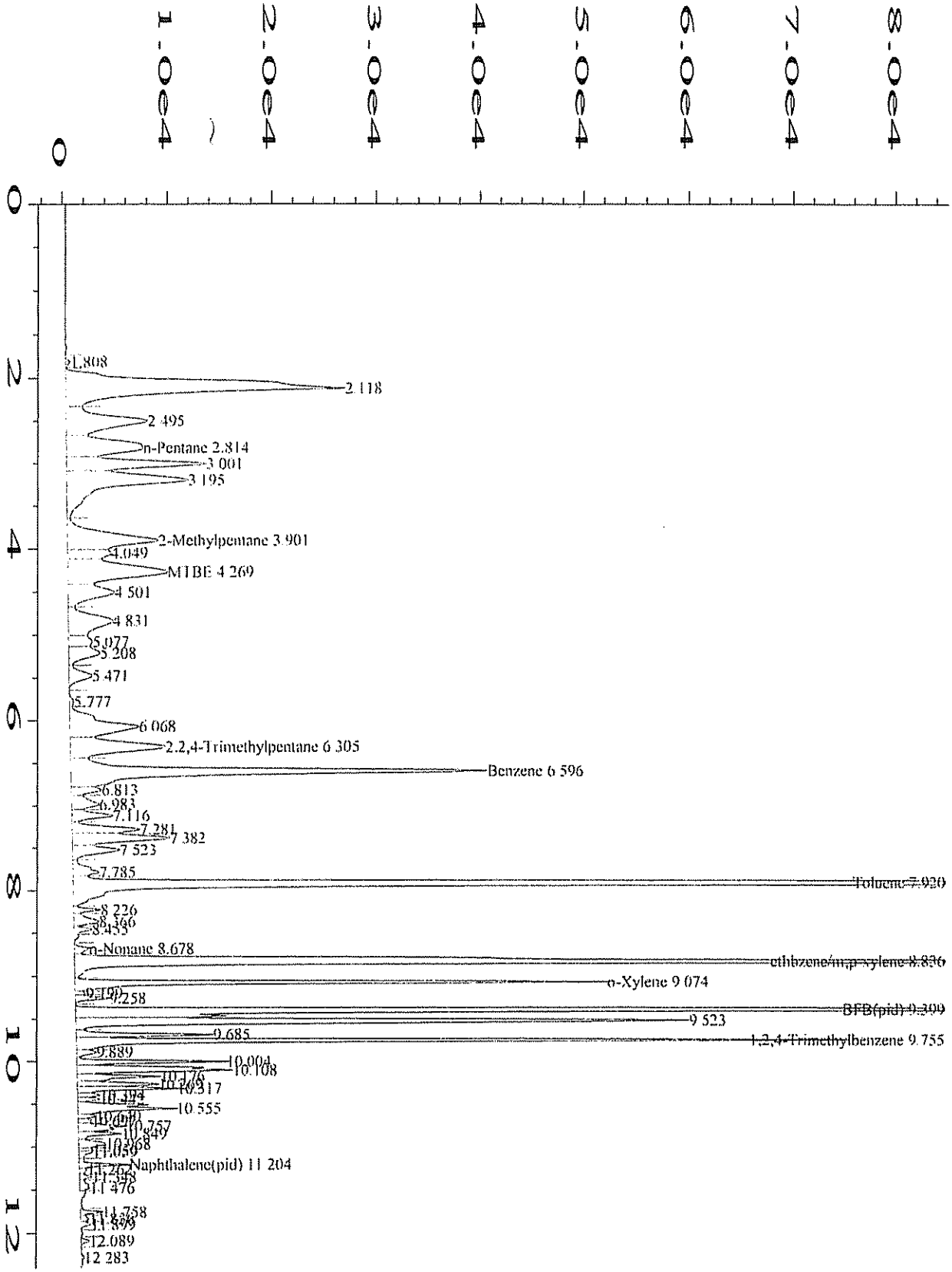

ata File Name	: C:\HPCHEM\1\DATA\vp072505\014R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 14
ample Name	: g161-2077-1a ms	Injection Number	: 1
an Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 03:57 PM	Instrument Method	: GAS1.MTH
eport Created on	: 26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp072505\015F0101.D
erator : DCS
strument : FID/PID
mple Name : g161-2077-1a msd
n Time Bar Code:
quired on : 25 Jul 05 04:22 PM
port Created on: 26 Jul 05 07:56 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp072505\015F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.759	50611	BV	0.086	1	50.482	n-Pentane
3.893	94603	VV	0.109	1	16.803	2-Methylpentane
4.199	65369	VV	0.162	1	153.234	MTBE
6.296	59927	VV	0.114	1	11.510	2,2,4-Trimethylpentane
6.587	68474	VV	0.088	1	8.678	Benzene
7.917	216296	VV	0.040	1	22.960	Toluene
8.676	8721	VV	0.050	1	2.188	n-Nonane
8.835	207524	VV	0.040	1	20.286	EBenz, m-,p-Xylene
9.074	72911	VV	0.037	1	7.239	o-Xylene
9.397	91289	PV	0.030	1	351.644	BFB
9.755	91704	VV	0.033	1	9.760	1,2,4-Trimethylbenzene
11.204	6749	VV	0.038	1	1.592	Naphthalene
2.991	18506	PV	0.071		185.058	* uncalibrated *
3.191	22195	PV	0.086		221.951	* uncalibrated *
3.724	3175	PV	0.043		31.748	* uncalibrated *
4.519	35313	VV	0.107		353.133	* uncalibrated *
4.836	24816	PV	0.171		248.162	* uncalibrated *
5.083	14315	VV	0.117		143.149	* uncalibrated *
5.206	12553	VV	0.107		125.527	* uncalibrated *
5.463	25661	VV	0.106		256.611	* uncalibrated *
5.778	1947	PV	0.091		19.466	* uncalibrated *
5.947	21362	VV	0.085		213.622	* uncalibrated *
6.072	51799	VV	0.127		517.991	* uncalibrated *
6.726	10070	VV	0.073		100.698	* uncalibrated *
6.815	8286	VV	0.065		82.857	* uncalibrated *
6.971	19787	VV	0.107		197.865	* uncalibrated *
7.111	13408	VV	0.072		134.077	* uncalibrated *
7.274	25858	VV	0.073		258.577	* uncalibrated *
7.381	41844	VV	0.077		418.439	* uncalibrated *
7.516	25828	VV	0.090		258.279	* uncalibrated *
7.787	16363	VV	0.064		163.631	* uncalibrated *
8.049	9248	VV	0.115		92.484	* uncalibrated *
8.224	5776	VV	0.037		57.759	* uncalibrated *
8.372	14164	VV	0.063		141.636	* uncalibrated *
8.453	6472	VV	0.046		64.716	* uncalibrated *
9.198	2625	VV	0.036		26.251	* uncalibrated *
9.258	5535	VV	0.038		55.353	* uncalibrated *
9.522	110166	VV	0.047		1101.662	* uncalibrated *
9.685	19982	VV	0.038		199.825	* uncalibrated *
9.890	3617	VV	0.052		36.168	* uncalibrated *
10.004	19932	VV	0.033		199.318	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp072505\015F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2077-1a msd
un Time Bar Code:
cquired on : 25 Jul 05 04:22 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.108	35111	VV	0.052	351.107	* uncalibrated *
10.177	13003	VV	0.044	130.031	* uncalibrated *
10.268	13911	VV	0.041	139.105	* uncalibrated *
10.317	16779	VV	0.039	167.793	* uncalibrated *
10.393	4007	VV	0.040	40.073	* uncalibrated *
10.442	3018	VV	0.035	30.182	* uncalibrated *
10.554	25458	VV	0.071	254.585	* uncalibrated *
10.640	2995	VV	0.042	29.952	* uncalibrated *
10.695	2626	VV	0.046	26.264	* uncalibrated *
10.757	12407	VV	0.058	124.065	* uncalibrated *
10.850	7718	VV	0.037	77.185	* uncalibrated *
10.967	7655	VV	0.064	76.553	* uncalibrated *
11.050	4681	VV	0.071	46.807	* uncalibrated *
11.348	2435	VV	0.039	24.353	* uncalibrated *
11.444	2361	VV	0.056	23.608	* uncalibrated *
11.477	1220	VV	0.032	12.198	* uncalibrated *
11.758	2880	VV	0.033	28.797	* uncalibrated *
11.900	1507	VV	0.039	15.067	* uncalibrated *
12.091	1116	PV	0.045	11.163	* uncalibrated *

alibration table contains at least one peak with amt = 0

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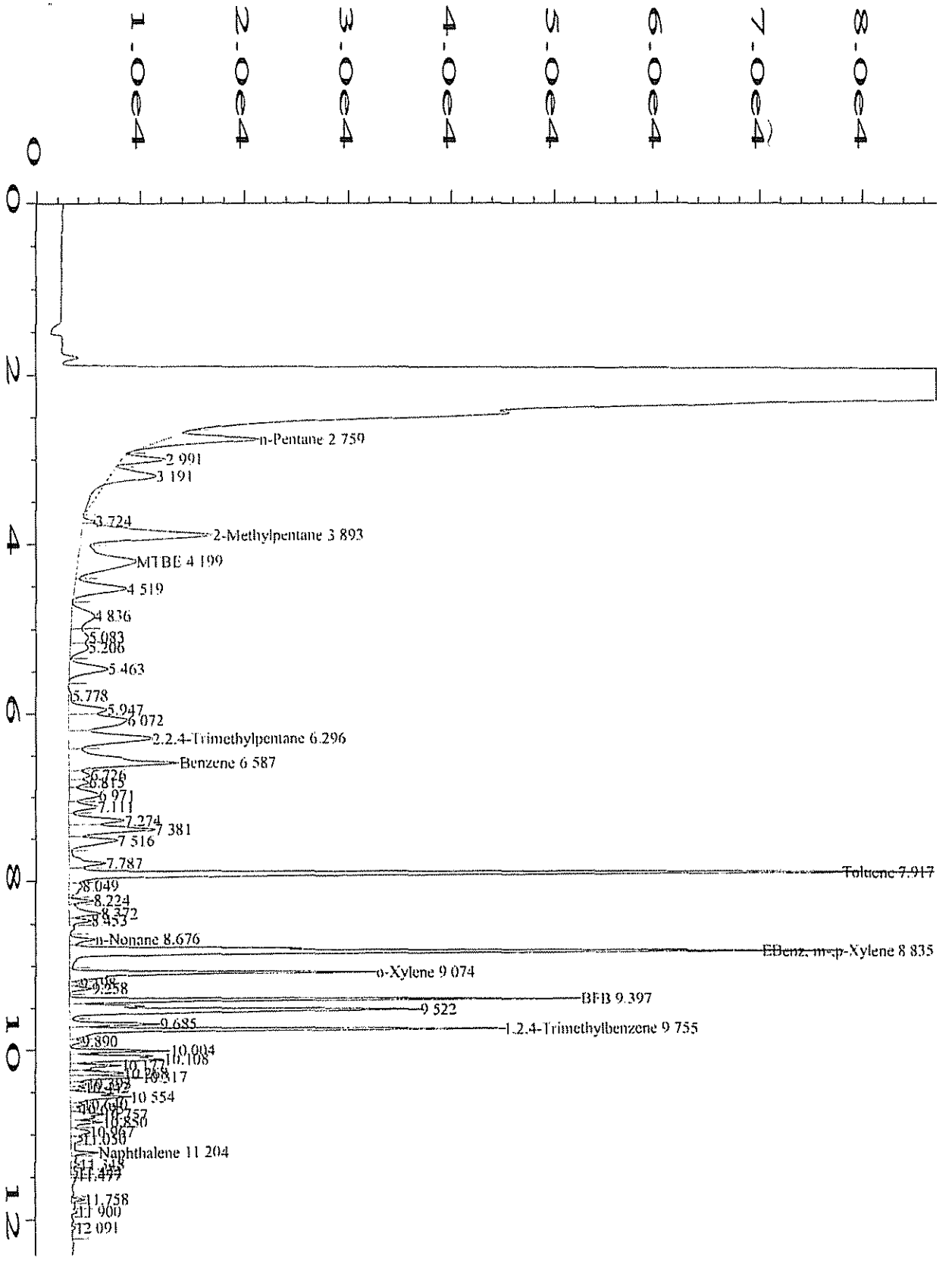

ata File Name	: C:\HPCHEM\1\DATA\vp072505\015F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 15
ample Name	: g161-2077-1a msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 04:22 PM	Instrument Method:	GAS1.MTH
eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\015R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2077-1a msd
in Time Bar Code:
cquired on : 25 Jul 05 04:22 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\015R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.811	82747	VV	0.143	1	13.195	n-Pentane
3.903	87150	VV	0.133	1	9.229	2-Methylpentane
4.270	107752	VV	0.149	1	3.575	MTBE
6.307	78958	VV	0.129	1	5.189	2,2,4-Trimethylpentane
6.597	221661	VV	0.081	1	2.786	Benzene
7.920	563677	VV	0.045	1	13.814	Toluene
8.679	5562	PV	0.063	1	0.819	n-Nonane
8.837	447226	VV	0.042	1	13.222	ethbzene/m,p-xylene
9.075	126203	VV	0.037	1	3.258	o-Xylene
9.400	459363	PV	0.049	1	30.917	BFB(pid)
9.755	167732	VV	0.034	1	5.463	1,2,4-Trimethylbenzene
11.204	11076	VV	0.032	1	0.633	Naphthalene(pid)
1.808	1601	BV	0.052		16.006	* uncalibrated *
2.117	252159	VV	0.116		2521.590	* uncalibrated *
2.495	84996	VV	0.143		849.956	* uncalibrated *
3.001	83636	VV	0.091		836.356	* uncalibrated *
3.195	133251	VV	0.149		1332.512	* uncalibrated *
4.053	25356	VV	0.088		253.559	* uncalibrated *
4.505	42408	VV	0.146		424.077	* uncalibrated *
4.836	49846	VV	0.176		498.464	* uncalibrated *
5.080	15322	VV	0.100		153.217	* uncalibrated *
5.212	24759	VV	0.121		247.590	* uncalibrated *
5.474	16589	VV	0.118		165.892	* uncalibrated *
5.779	2294	PV	0.089		22.938	* uncalibrated *
6.070	66428	VV	0.138		664.281	* uncalibrated *
6.814	12923	VV	0.066		129.234	* uncalibrated *
6.984	18446	VV	0.098		184.457	* uncalibrated *
7.117	19186	VV	0.074		191.860	* uncalibrated *
7.281	31325	VV	0.071		313.247	* uncalibrated *
7.383	54131	VV	0.084		541.313	* uncalibrated *
7.523	27878	VV	0.093		278.781	* uncalibrated *
7.786	15870	VV	0.083		158.695	* uncalibrated *
8.226	6511	VV	0.046		65.115	* uncalibrated *
8.367	13413	VV	0.083		134.133	* uncalibrated *
8.455	5824	VV	0.049		58.235	* uncalibrated *
9.199	2139	VV	0.038		21.391	* uncalibrated *
9.259	8227	VV	0.042		82.272	* uncalibrated *
9.524	188035	VV	0.052		1880.348	* uncalibrated *
9.686	30656	VV	0.038		306.562	* uncalibrated *
9.889	5952	VV	0.055		59.523	* uncalibrated *
10.005	30790	VV	0.033		307.902	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp072505\015R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : g161-2077-1a msd
ın Time Bar Code:
:quired on : 25 Jul 05 04:22 PM
:port Created on: 26 Jul 05 07:56 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.108	58203	VV	0.052	582.034	* uncalibrated *
10.177	21020	VV	0.038	210.205	* uncalibrated *
10.269	21205	VV	0.041	212.046	* uncalibrated *
10.318	22976	VV	0.038	229.758	* uncalibrated *
10.394	5114	VV	0.041	51.141	* uncalibrated *
10.442	4319	VV	0.035	43.186	* uncalibrated *
10.555	41864	VV	0.074	418.643	* uncalibrated *
10.641	3925	VV	0.038	39.246	* uncalibrated *
10.698	3506	VV	0.048	35.059	* uncalibrated *
10.758	18421	VV	0.057	184.212	* uncalibrated *
10.850	10326	VV	0.036	103.256	* uncalibrated *
10.969	10934	VV	0.064	109.336	* uncalibrated *
11.035	2527	VV	0.033	25.266	* uncalibrated *
11.060	3697	VV	0.049	36.973	* uncalibrated *
11.262	2263	VV	0.054	22.626	* uncalibrated *
11.348	3025	VV	0.042	30.249	* uncalibrated *
11.477	4748	VV	0.076	47.480	* uncalibrated *
11.758	5466	VV	0.032	54.664	* uncalibrated *
11.836	2346	VV	0.048	23.463	* uncalibrated *
11.900	2931	VV	0.039	29.309	* uncalibrated *
12.089	1903	PV	0.042	19.034	* uncalibrated *
12.286	827	VV	0.057	8.266	* uncalibrated *

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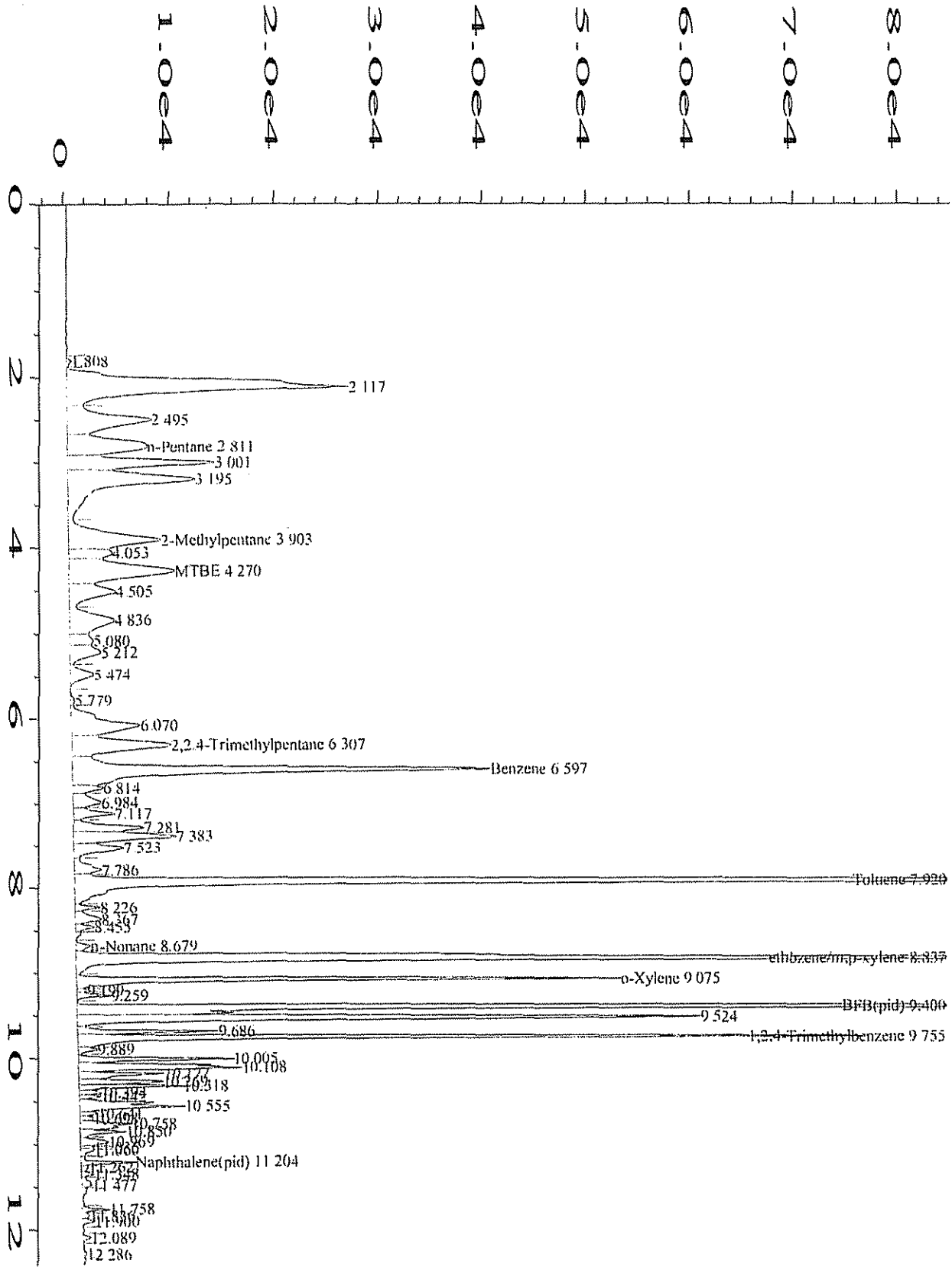


ata File Name	: C:\HPCHEM\1\DATA\vp072505\015R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 15
ample Name	: g161-2077-1a msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 04:22 PM	Instrument Method:	GAS1.MTH
eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

VPH Prep, Standard, Run Logs

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	b	7/25/05 8:21				DCS		
002F0101.D	V 500	7/25/05 8:47				DCS		
003F0101.D	b	7/25/05 9:12				DCS		
004F0101.D	G500	7/25/05 9:37				DCS		
005F0101.D	lcs4072505a	7/25/05 10:03				DCS		
006F0101.D	vblk4072505a	7/25/05 10:28				DCS		
007F0101.D	g161-2077-1a	7/25/05 10:53				DCS		
008F0101.D	g161-2077-1a ms	7/25/05 11:19				DCS		
009F0101.D	g161-2077-1a msd	7/25/05 11:44				DCS		
011F0101.D	G500	7/25/05 14:37				DCS		
012F0101.D	lcs4072505b	7/25/05 15:03				DCS		
013F0101.D	g161-2077-1a	7/25/05 15:32				DCS		
014F0101.D	g161-2077-1a ms	7/25/05 15:57				DCS		
015F0101.D	g161-2077-1a msd	7/25/05 16:22				DCS		
016F0101.D	g211-1835-3a x1	7/25/05 16:47				DCS		
017F0101.D	g211-1835-4a x1	7/25/05 17:12				DCS		
018F0101.D	g211-1835-5a x1	7/25/05 17:38				DCS		
019F0101.D	g510-237-7b x1	7/25/05 18:03				DCS		
020F0101.D	g510-238-1a x1	7/25/05 18:28				DCS		
021F0101.D	g161-2078-6a	7/25/05 18:54				DCS		

Analyst: _____

Page Number: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
022F0101.D	g161-2078-7a	7/25/05 19:19				DCS		
023F0101.D	g161-2078-8a	7/25/05 19:44				DCS		
024F0101.D	G161-2078-5A x100	7/25/05 20:09	cid= 143452			DCS		
025F0101.D	g161-2081-10b x1	7/25/05 20:34				DCS		
026F0101.D	g161-2081-1e x1	7/25/05 21:00				DCS		
027F0101.D	g161-2081-2e x1	7/25/05 21:25				DCS		
028F0101.D	g161-2081-3e x1	7/25/05 21:50				DCS		
029F0101.D	g161-2081-9e x1	7/25/05 22:15				DCS		
030F0101.D	g161-2083-1d x1	7/25/05 22:41				DCS		
031F0101.D	g161-2085-1d x1	7/25/05 23:06				DCS		
032F0101.D	g161-2079-1d x1	7/25/05 23:31				DCS		
033F0101.D	g161-2079-2d x1	7/25/05 23:56				DCS		
034F0101.D	b	7/26/05 0:21				DCS		
035F0101.D	G500	7/26/05 0:47				DCS		
036F0101.D	lcs4072505c	7/26/05 1:12				DCS		
037F0101.D	vblk4072505b	7/26/05 1:37				DCS		
038F0101.D	g510-236-1e x1	7/26/05 2:02				DCS		
039F0101.D	g510-236-1e ms	7/26/05 2:27				DCS		
040F0101.D	g510-236-1e msd	7/26/05 2:53				DCS		
041F0101.D	g510-236-2e x1	7/26/05 3:18				DCS		

Analyst: _____

Page Number: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
042F0101.D	g510-236-3e x1	7/26/05 3:43				DCS		
043F0101.D	g510-236-4e x1	7/26/05 4:08				DCS		
044F0101.D	g510-236-5e x1	7/26/05 4:33				DCS		
045F0101.D	g161-2079-3d x1	7/26/05 4:58				DCS		
046F0101.D	g161-2079-4d x1	7/26/05 5:23				DCS		
047F0101.D	g460-31-8b x1	7/26/05 5:49				DCS		
048F0101.D	g460-31-1d x1	7/26/05 6:14				DCS		
049F0101.D	g460-31-2d x1	7/26/05 6:39				DCS		
050F0101.D	g460-31-3d x1	7/26/05 7:04				DCS		
051F0101.D	g460-31-3e dup	7/26/05 7:29				DCS		

Analyst: _____

Page Number: _____

Volatiles Standard Logbook # 6
Paradigm Analytical

Working Standard

ID: VPH-QC-7-071405

referring page	Item	Lot Number	Components	Vendor	Initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A029644	MA VPH	Restek	500-1500	1200	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 7/14/05
Expires: 2/14/06

Comments:

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier

Page:

8270-BN Sample Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727605.D Vial: 5
Acq On : 27 Jul 2005 9:57 am Operator: MRC
Sample : G161-2081-1H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:05 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

μC 07.27.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	136798	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.91	136	539738	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	305541	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	443873	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	225898	4.00	ug/mL	-0.04
93) Perylene-D12	20.60	264	107444	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	376984	10.91	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	109.10%	
17) Phenol-d6 (surr)	6.50	99	601022	10.99	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	109.90%	
32) Nitrobenzene-d5 (surr)	7.82	128	209728	11.04	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	110.40%	
53) 2-Fluorobiphenyl (surr)	10.65	172	961726	11.16	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	111.60%	
54) 2,4,6-Tribromophenol (surr	12.97	330	99998	11.13	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	111.30%	
92) 4-Terphenyl-d14 (surr)	16.69	244	721618m	12.90	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	129.00%	

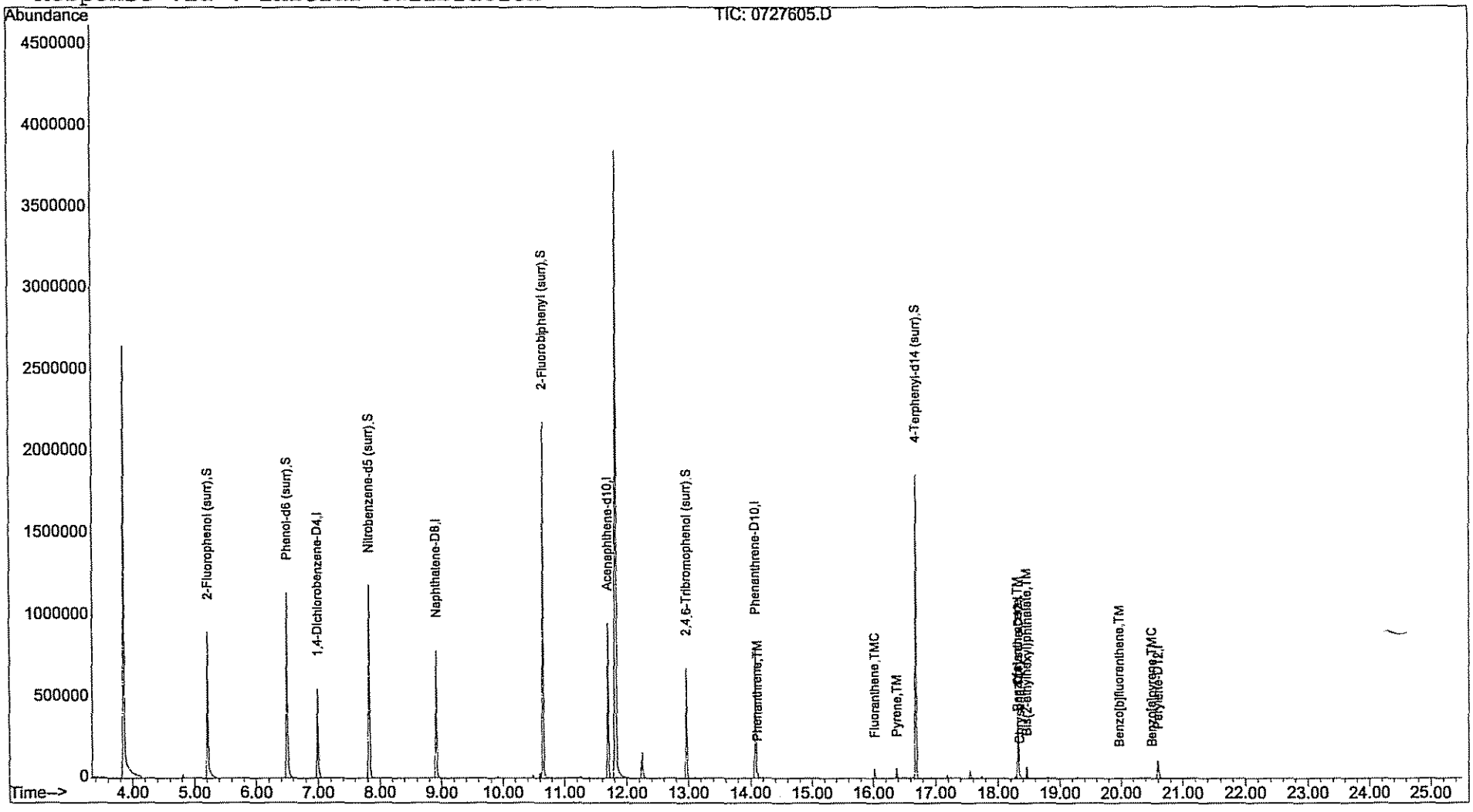
Target Compounds						Qvalue
61) Phenanthrene	14.11	178	25972	0.24	ug/mL#	92
66) Fluoranthene	16.02	202	50094	0.45	ug/mL#	95
86) Pyrene	16.38	202	47345	0.58	ug/mL	96
88) Benzo[a]anthracene	18.30	228	16116	0.23	ug/mL#	66
90) Chrysene	18.36	228	16080	0.27	ug/mL#	82
91) Bis(2-ethylhexyl)phthalate	18.47	149	31485	0.60	ug/mL#	95
95) Benzo[b]fluoranthene	19.97	252	11244	0.31	ug/mL#	61
97) Benzo[a]pyrene	20.50	252	2741	0.10	ug/mL#	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727605.D Vial: 5
Acq On : 27 Jul 2005 9:57 am Operator: MRC
Sample : G161-2081-1H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:05 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727606.D Vial: 6
Acq On : 27 Jul 2005 10:31 am Operator: MRC
Sample : G161-2081-2H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRL 07 27 05

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	151957	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.91	136	592093	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	331865	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	503953	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	265844	4.00	ug/mL	-0.03
93) Perylene-D12	20.60	264	126261	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	408814	10.65	ug/mL	0.00
Spiked Amount 10.000			Recovery = 106.50%			
17) Phenol-d6 (surr)	6.50	99	639874	10.53	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 105.30%			
32) Nitrobenzene-d5 (surr)	7.82	128	221126	10.61	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 106.10%			
53) 2-Fluorobiphenyl (surr)	10.65	172	921317	9.84	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 98.40%			
54) 2,4,6-Tribromophenol (surr	12.97	330	108200	11.09	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 110.90%			
92) 4-Terphenyl-d14 (surr)	16.69	244	865053	13.14	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 131.40%			

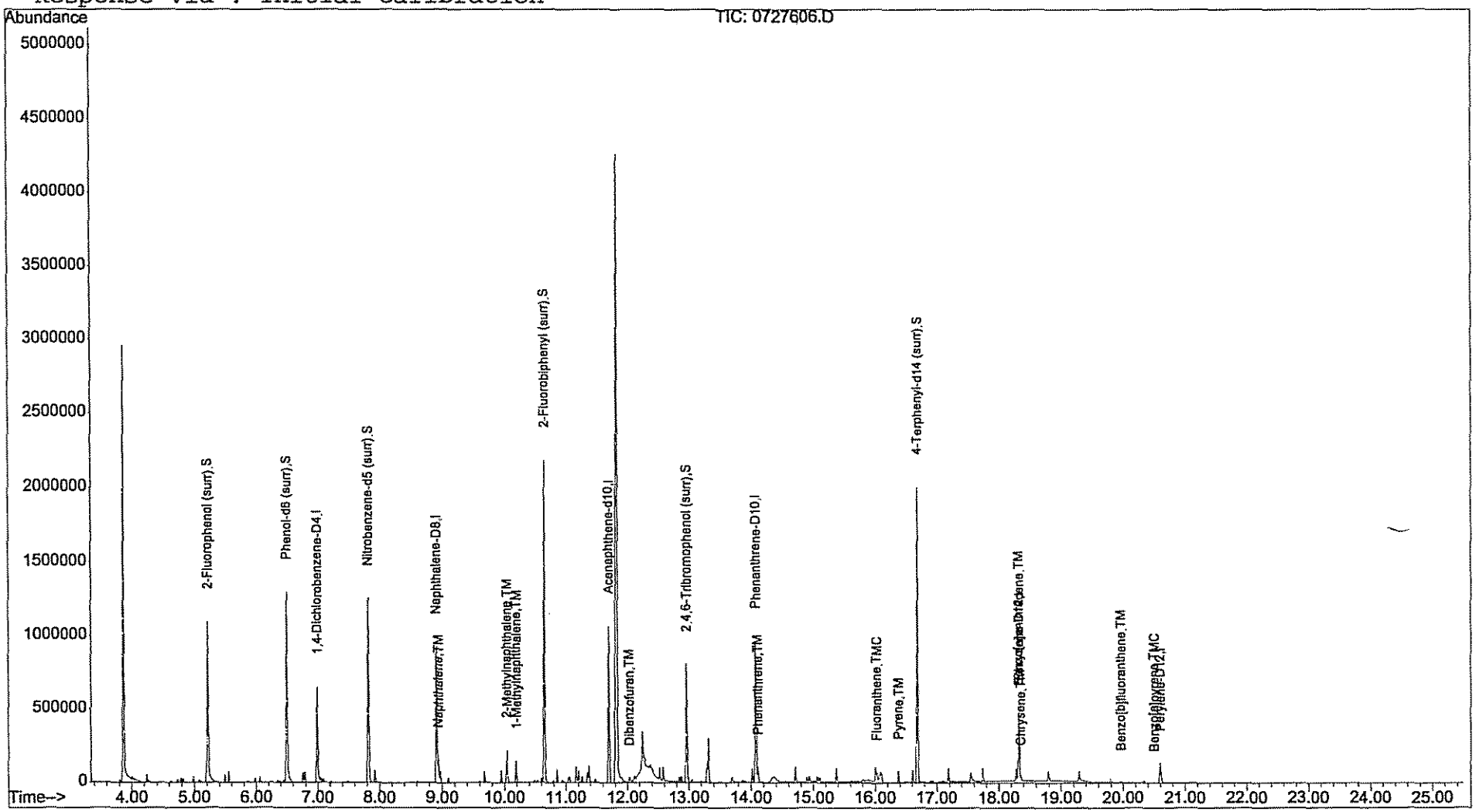
Target Compounds						Qvalue
27) Naphthalene	8.94	128	104449	0.81	ug/mL	98
31) 2-Methylnaphthalene	10.04	142	99595	1.06	ug/mL	91
40) 1-Methylnaphthalene	10.20	142	67761	0.83	ug/mL	99
47) Dibenzofuran	12.04	168	28838	0.24	ug/mL	92
61) Phenanthrene	14.11	178	68092	0.54	ug/mL	93
66) Fluoranthene	16.03	202	43972	0.35	ug/mL#	77
86) Pyrene	16.38	202	49108	0.52	ug/mL	97
88) Benzo[a]anthracene	18.31	228	16561	0.20	ug/mL#	88
90) Chrysene	18.36	228	21350	0.31	ug/mL	96
95) Benzo[b]fluoranthene	19.96	252	15711	0.37	ug/mL#	61
97) Benzo[a]pyrene	20.50	252	4614	0.14	ug/mL#	60

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727606.D Vial: 6
Acq On : 27 Jul 2005 10:31 am Operator: MRC
Sample : G161-2081-2H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:06 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727607.D Vial: 7
Acq On : 27 Jul 2005 11:05 am Operator: MRC
Sample : G161-2081-3H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

WL 07.27.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	142779	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.91	136	571625	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	326900	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	496102	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	251972	4.00	ug/mL	-0.04
93) Perylene-D12	20.60	264	109377	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	384154	10.65	ug/mL	0.00
Spiked Amount 10.000			Recovery = 106.50%			
17) Phenol-d6 (surr)	6.50	99	619887	10.86	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 108.60%			
32) Nitrobenzene-d5 (surr)	7.82	128	216039	10.74	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 107.40%			
53) 2-Fluorobiphenyl (surr)	10.65	172	959124	10.40	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 104.00%			
54) 2,4,6-Tribromophenol (surr	12.97	330	98856	10.28	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 102.80%			
92) 4-Terphenyl-d14 (surr)	16.69	244	850517m	13.63	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 136.30%			

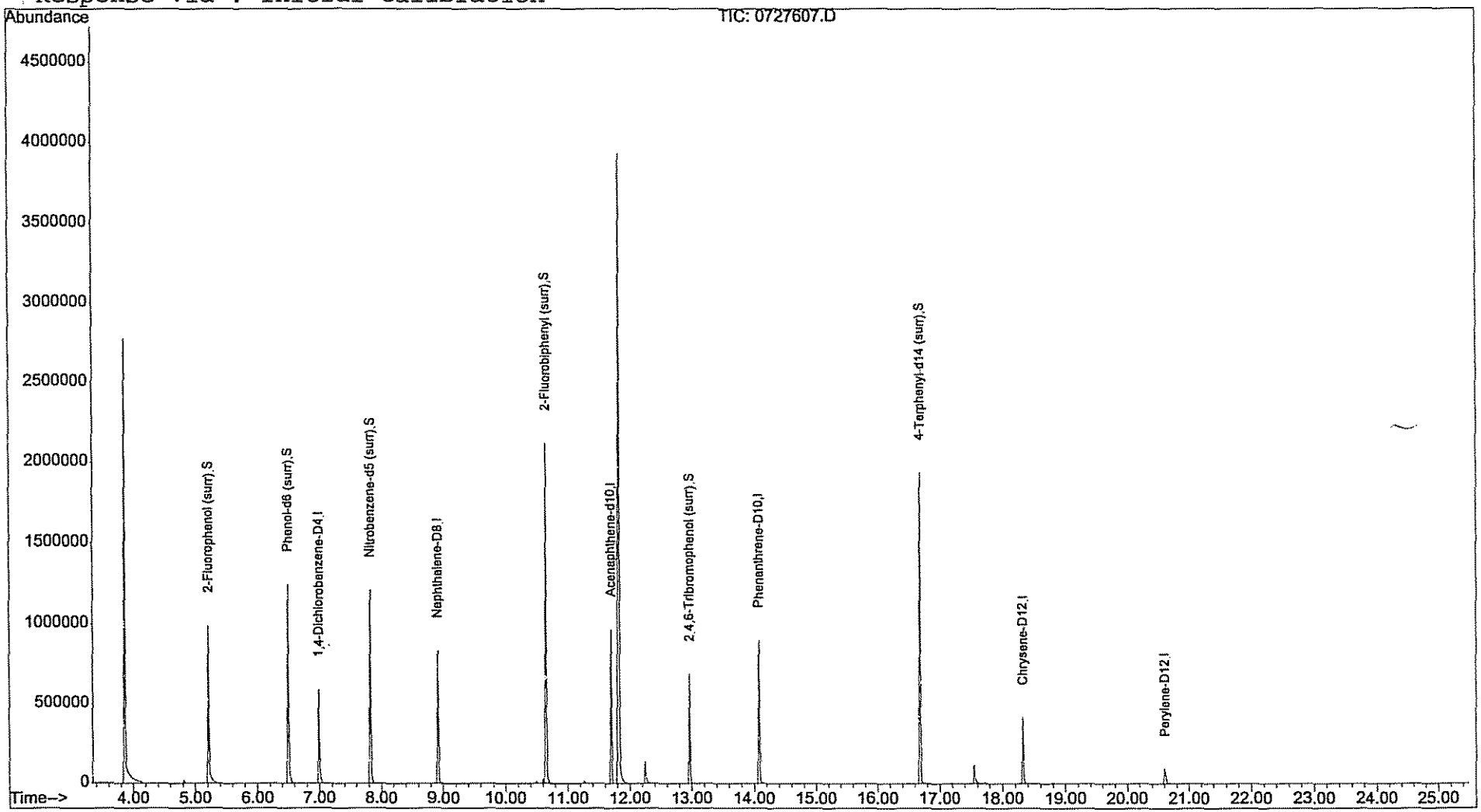
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727607.D Vial: 7
Acq On : 27 Jul 2005 11:05 am Operator: MRC
Sample : G161-2081-3H x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:07 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727608.D Vial: 8
Acq On : 27 Jul 2005 11:39 am Operator: MRC
Sample : G161-2081-4E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

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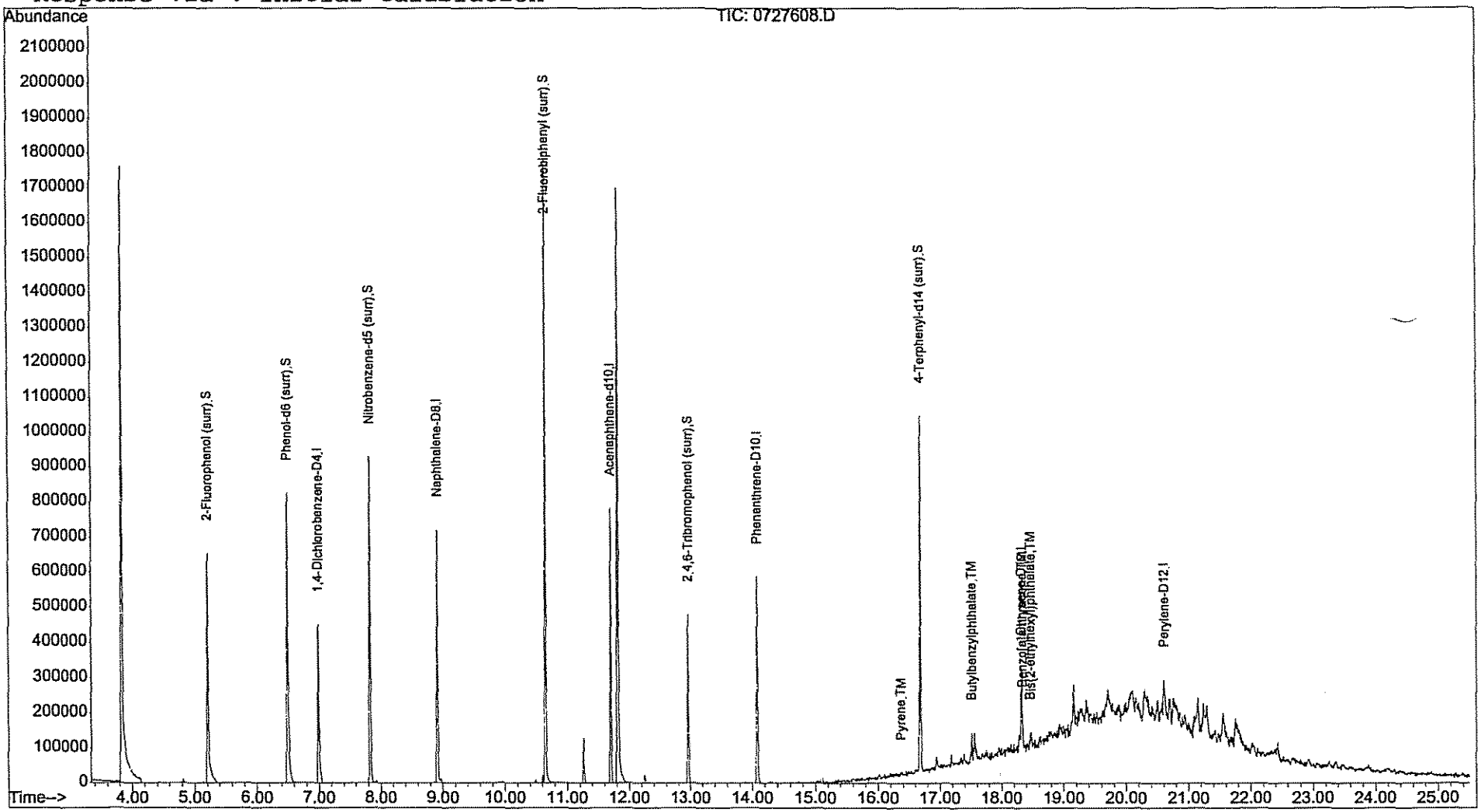
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	125498	4.00 ug/mL	-0.03
18) Naphthalene-D8	8.91	136	480168	4.00 ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	259368	4.00 ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	330999	4.00 ug/mL	-0.03
85) Chrysene-D12	18.32	240	223297	4.00 ug/mL	-0.03
93) Perylene-D12	20.61	264	107965	4.00 ug/mL	-0.03
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.21	112	310044	9.78 ug/mL	0.00
Spiked Amount 10.000			Recovery = 97.80%		
17) Phenol-d6 (surr)	6.49	99	501800	10.00 ug/mL	-0.02
Spiked Amount 10.000			Recovery = 100.00%		
32) Nitrobenzene-d5 (surr)	7.82	128	177216	10.49 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 104.90%		
53) 2-Fluorobiphenyl (surr)	10.65	172	784721	10.73 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 107.30%		
54) 2,4,6-Tribromophenol (surr	12.97	330	70039	9.18 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 91.80%		
92) 4-Terphenyl-d14 (surr)	16.68	244	425241	13.93 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 139.30%		
Target Compounds					Qvalue
86) Pyrene	16.38	202	10182	0.23 ug/mL#	72
87) Butylbenzylphthalate	17.51	149	24427	1.13 ug/mL	92
88) Benzo[a]anthracene	18.35	228	9013	0.23 ug/mL#	34
91) Bis(2-ethylhexyl)phthalate	18.47	149	14496	0.50 ug/mL#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727608.D Vial: 8
Acq On : 27 Jul 2005 11:39 am Operator: MRC
Sample : G161-2081-4E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:08 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727609.D Vial: 9
Acq On : 27 Jul 2005 12:13 pm Operator: MRC
Sample : G161-2081-5E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:09 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 072705

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	143072	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.92	136	544158	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	321013	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	472305	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	185055	4.00	ug/mL	-0.04
93) Perylene-D12	20.60	264	95774	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	376284	10.41	ug/mL	0.00
Spiked Amount 10.000			Recovery = 104.10%			
17) Phenol-d6 (surr)	6.50	99	587698	10.28	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 102.80%			
32) Nitrobenzene-d5 (surr)	7.82	128	204298	10.67	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 106.70%			
53) 2-Fluorobiphenyl (surr)	10.65	172	920352	10.16	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 101.60%			
54) 2,4,6-Tribromophenol (surr	12.97	330	99813	10.57	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 105.70%			
92) 4-Terphenyl-d14 (surr)	16.69	244	579305m	12.64	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 126.40%			

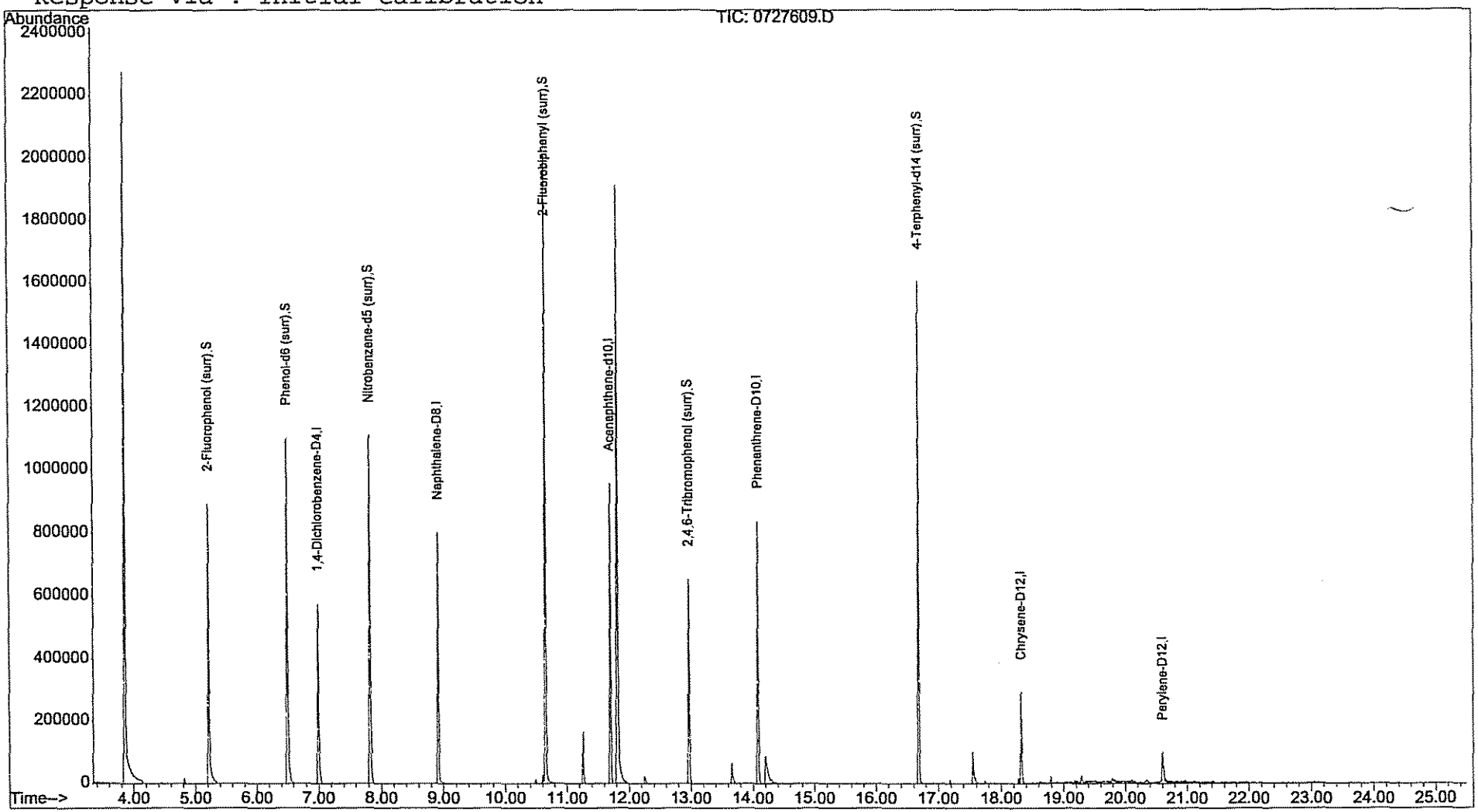
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727609.D Vial: 9
Acq On : 27 Jul 2005 12:13 pm Operator: MRC
Sample : G161-2081-5E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:09 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727610.D Vial: 10
Acq On : 27 Jul 2005 12:48 pm Operator: MRC
Sample : G161-2081-6E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:09 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 072705

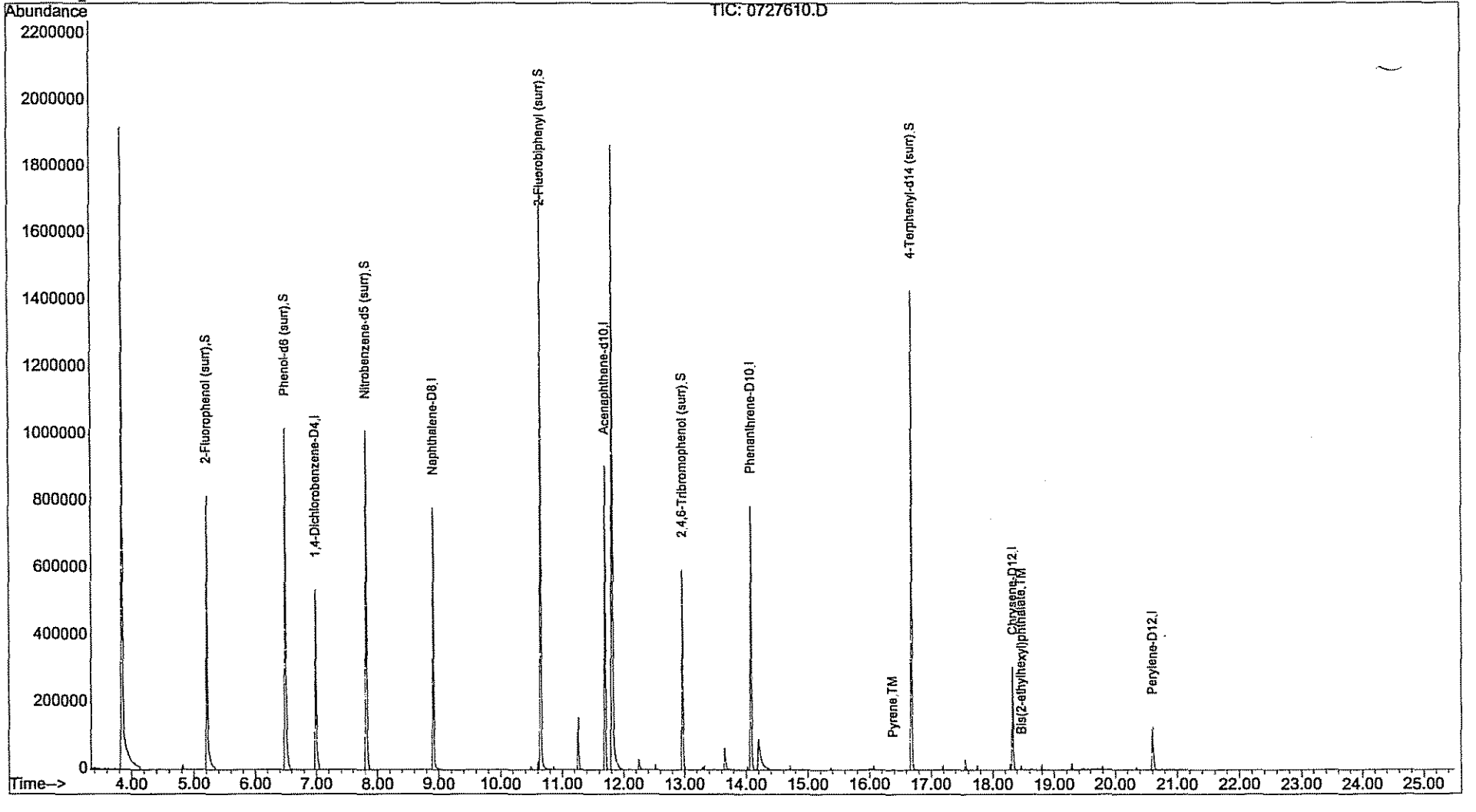
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	132765	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.92	136	529765	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	302418	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	454693	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	197449	4.00	ug/mL	-0.04
93) Perylene-D12	20.60	264	110751	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	356699	10.63	ug/mL	0.00
Spiked Amount 10.000			Recovery = 106.30%			
17) Phenol-d6 (surr)	6.50	99	566228	10.67	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 106.70%			
32) Nitrobenzene-d5 (surr)	7.82	128	190976	10.25	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 102.50%			
53) 2-Fluorobiphenyl (surr)	10.65	172	821384	9.63	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 96.30%			
54) 2,4,6-Tribromophenol (surr	12.97	330	89184	10.03	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 100.30%			
92) 4-Terphenyl-d14 (surr)	16.69	244	639638	13.08	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 130.80%			
Target Compounds						Qvalue
86) Pyrene	16.38	202	4120	0.06	ug/mL#	72
91) Bis(2-ethylhexyl)phthalate	18.47	149	4298	0.09	ug/mL#	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727610.D Vial: 10
Acq On : 27 Jul 2005 12:48 pm Operator: MRC
Sample : G161-2081-6E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:09 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727611.D Vial: 11
Acq On : 27 Jul 2005 1:22 pm Operator: MRC
Sample : G161-2081-7E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:10 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

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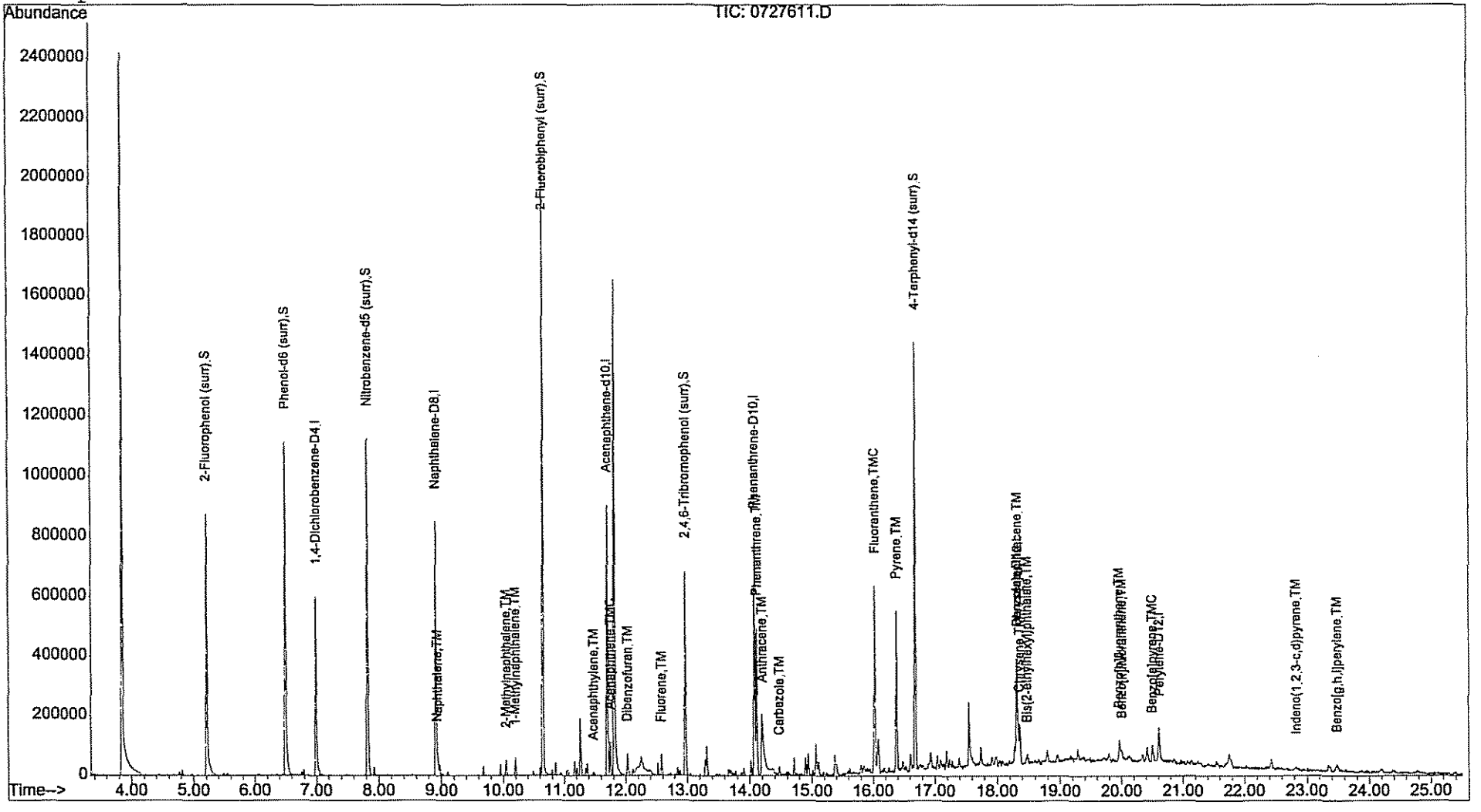
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	143160	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.91	136	554969	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	298622	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	414709	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	189356	4.00	ug/mL	-0.03
93) Perylene-D12	20.61	264	96345	4.00	ug/mL	-0.03
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	374602	10.36	ug/mL	0.00
Spiked Amount 10.000			Recovery =	103.60%		
17) Phenol-d6 (surr)	6.50	99	590664	10.32	ug/mL	-0.02
Spiked Amount 10.000			Recovery =	103.20%		
32) Nitrobenzene-d5 (surr)	7.82	128	207485	10.63	ug/mL	-0.03
Spiked Amount 10.000			Recovery =	106.30%		
53) 2-Fluorobiphenyl (surr)	10.65	172	912655	10.84	ug/mL	-0.03
Spiked Amount 10.000			Recovery =	108.40%		
54) 2,4,6-Tribromophenol (surr	12.97	330	91226	10.39	ug/mL	-0.03
Spiked Amount 10.000			Recovery =	103.90%		
92) 4-Terphenyl-d14 (surr)	16.69	244	587656	14.01	ug/mL	-0.03
Spiked Amount 10.000			Recovery =	140.10%		

Target Compounds						Qvalue
27) Naphthalene	8.95	128	47456	0.39	ug/mL	98
31) 2-Methylnaphthalene	10.04	142	30718	0.35	ug/mL	96
40) 1-Methylnaphthalene	10.20	142	30955	0.42	ug/mL	100
42) Acenaphthylene	11.47	152	8426	0.09	ug/mL#	61
44) Acenaphthene	11.75	153	43418	0.66	ug/mL	97
47) Dibenzofuran	12.03	168	55304	0.52	ug/mL	97
49) Fluorene	12.58	166	25510	0.32	ug/mL	98
61) Phenanthrene	14.12	178	274164	2.66	ug/mL	96
62) Carbazole	14.48	167	25282	0.60	ug/mL#	80
63) Anthracene	14.20	178	83650	0.88	ug/mL	97
66) Fluoranthene	16.03	202	360558	3.45	ug/mL	98
86) Pyrene	16.38	202	298349	4.92	ug/mL	98
88) Benzo[a]anthracene	18.31	228	88893	1.66	ug/mL	97
90) Chrysene	18.37	228	97711	2.21	ug/mL#	94
91) Bis(2-ethylhexyl)phthalate	18.47	149	4675	0.12	ug/mL#	48
95) Benzo[b]fluoranthene	19.96	252	72209	2.21	ug/mL#	96
96) Benzo[k]fluoranthene	20.01	252	31188m	1.01	ug/mL	
97) Benzo[a]pyrene	20.51	252	46764	1.86	ug/mL#	94
98) Indeno(1,2,3-c,d)pyrene	22.83	276	11983	0.82	ug/mL#	49
100) Benzo[g,h,i]perylene	23.49	276	16276	1.06	ug/mL#	56

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\6072705\0727611.D Vial: 11
Acq On : 27 Jul 2005 1:22 pm Operator: MRC
Sample : G161-2081-7E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:10 2005 Quant Results File: 8270.RES

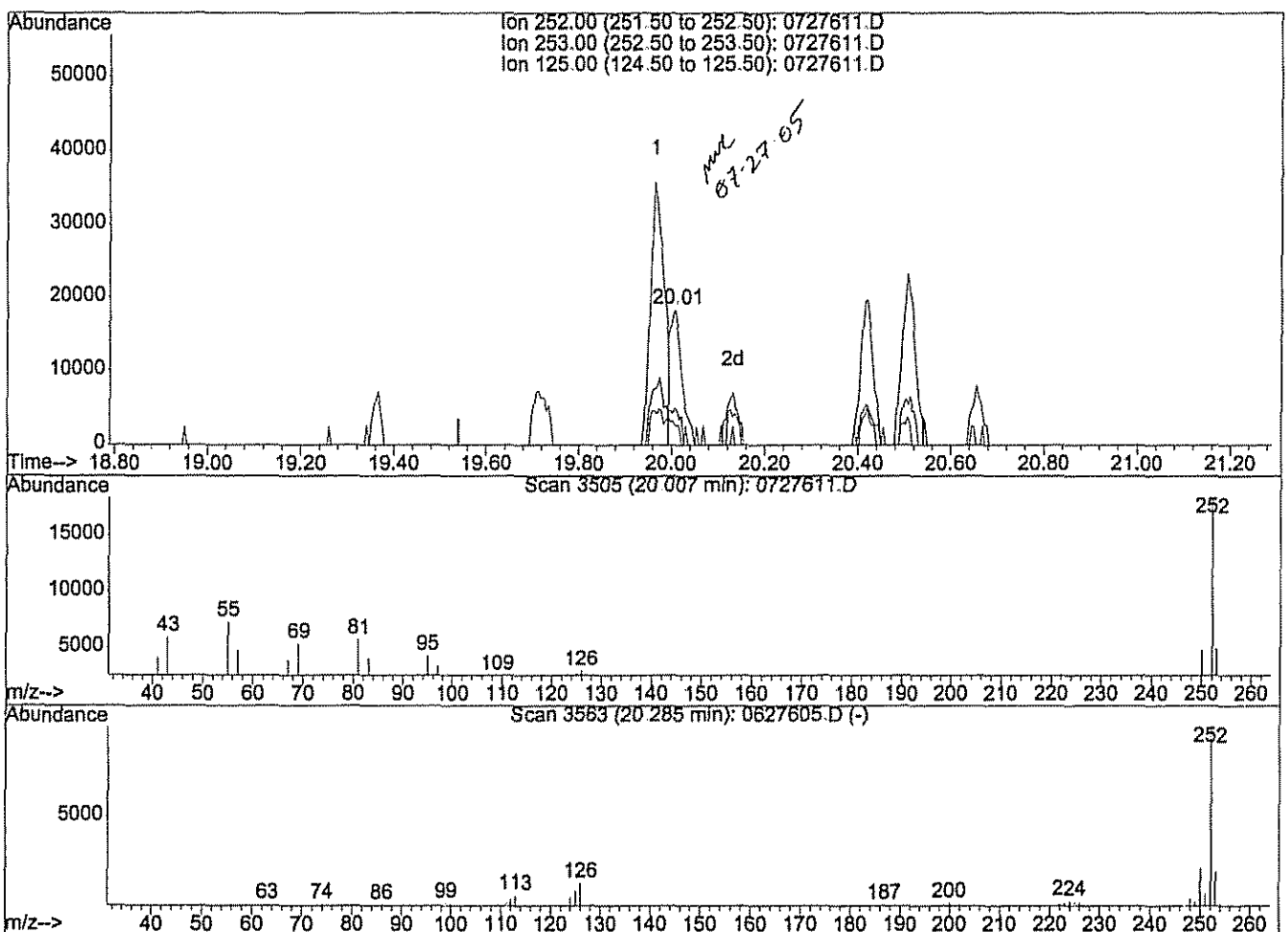
Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727611.D Vial: 11
Acq On : 27 Jul 2005 1:22 pm Operator: MRC
Sample : G161-2081-7E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:10 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration



(96) Benzo[k]fluoranthene (TM)

20.01min 1.01ug/mL m

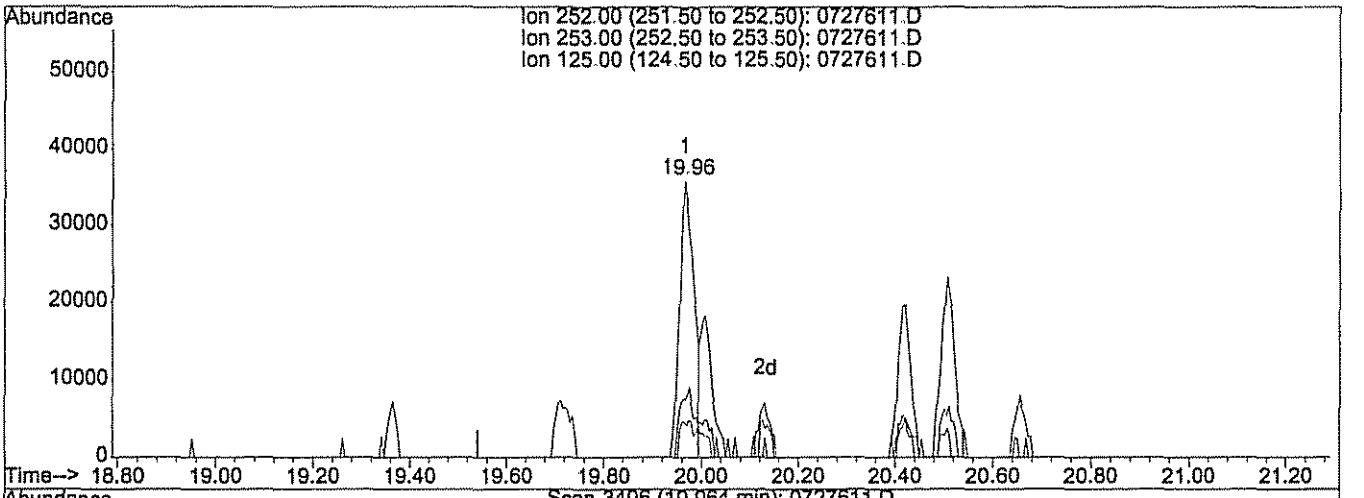
response 31188

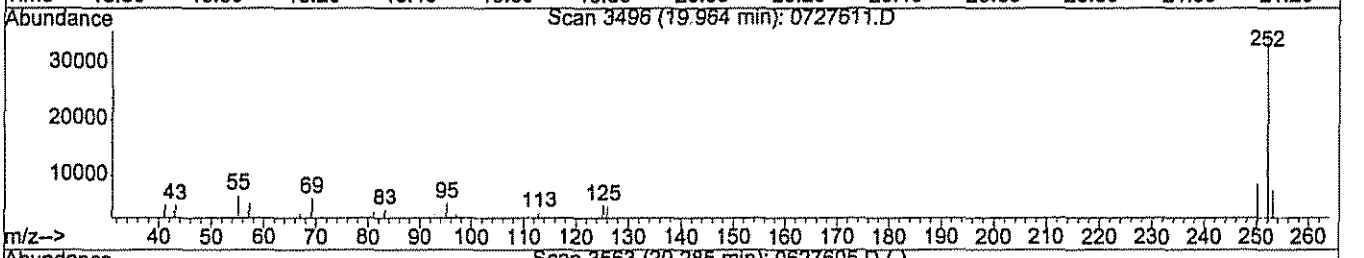
Ion	Exp%	Act%
252.00	100	100
253.00	21.10	26.86#
125.00	8.70	14.54#
0.00	0.00	0.00

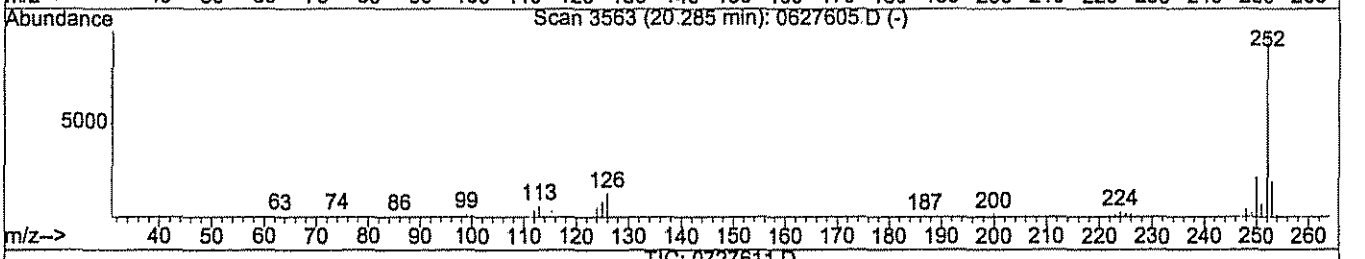
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727611.D Vial: 11
Acq On : 27 Jul 2005 1:22 pm Operator: MRC
Sample : G161-2081-7E x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:10 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration







TIC: 0727611.D

(96) Benzo[k]fluoranthene (TM)

19.96min 2.34ug/mL

response 72209

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	20.88
125.00	8.70	12.75#
0.00	0.00	0.00

0727611.D 8270.M Wed Jul 27 15:10:44 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727612.D Vial: 12
Acq On : 27 Jul 2005 1:56 pm Operator: MRC
Sample : G161-2081-8F x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 07.27.05

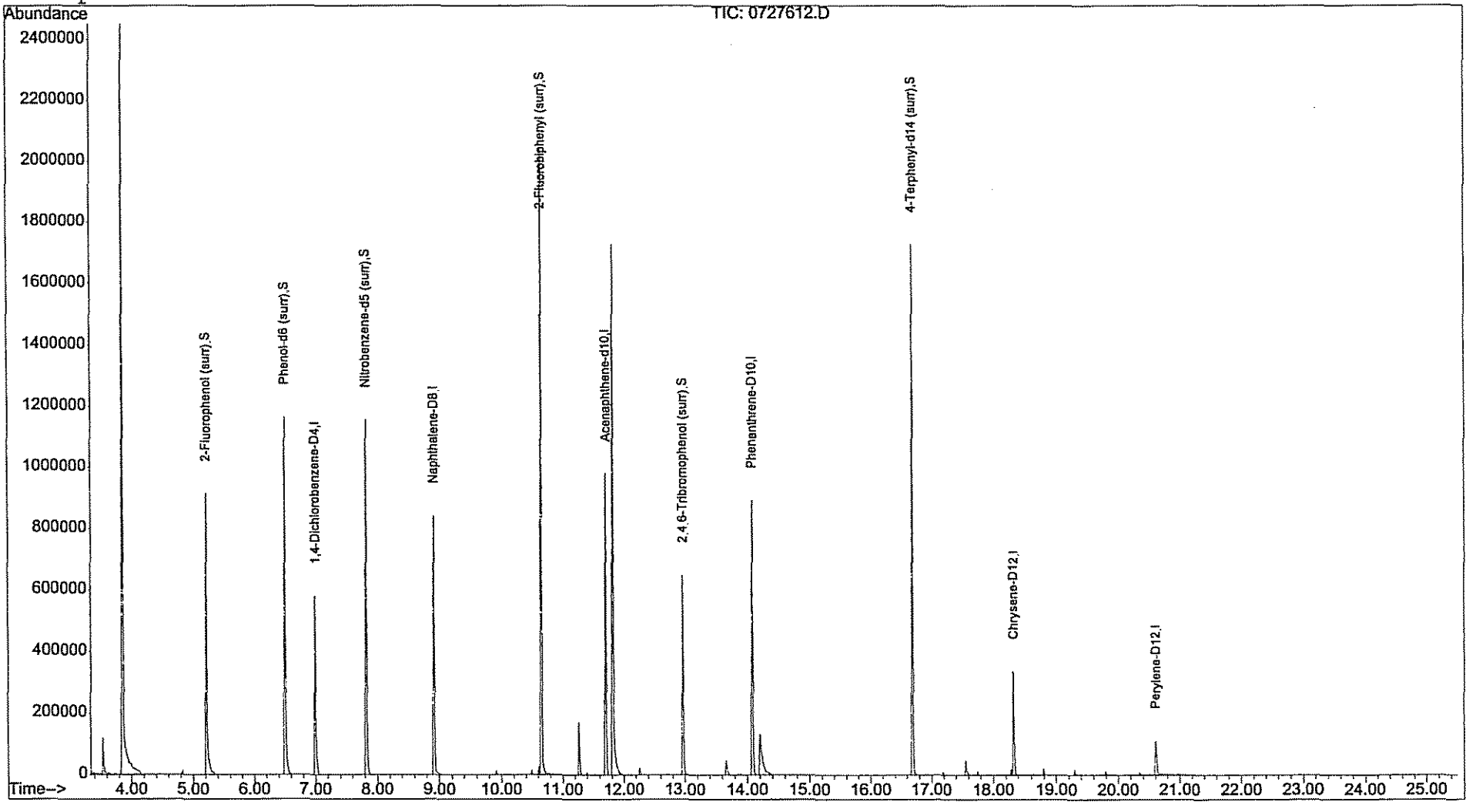
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.00	152	146148	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.92	136	584450	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	330077	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	498996	4.00	ug/mL	-0.03
85) Chrysene-D12	18.32	240	206866	4.00	ug/mL	-0.04
93) Perylene-D12	20.60	264	112211	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	377986	10.24	ug/mL	0.00
Spiked Amount 10.000			Recovery = 102.40%			
17) Phenol-d6 (surr)	6.50	99	602467	10.31	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 103.10%			
32) Nitrobenzene-d5 (surr)	7.82	128	211684	10.29	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 102.90%			
53) 2-Fluorobiphenyl (surr)	10.65	172	932608	10.02	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 100.20%			
54) 2,4,6-Tribromophenol (surr	12.97	330	99210	10.22	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 102.20%			
92) 4-Terphenyl-d14 (surr)	16.69	244	697124m	13.61	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 136.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\6072705\0727612.D Vial: 12
Acq On : 27 Jul 2005 1:56 pm Operator: MRC
Sample : G161-2081-8F x1 Inst : MSD6
Misc : 8270 - BN - CLP [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 15:11 2005 Quant Results File: 8270.RES

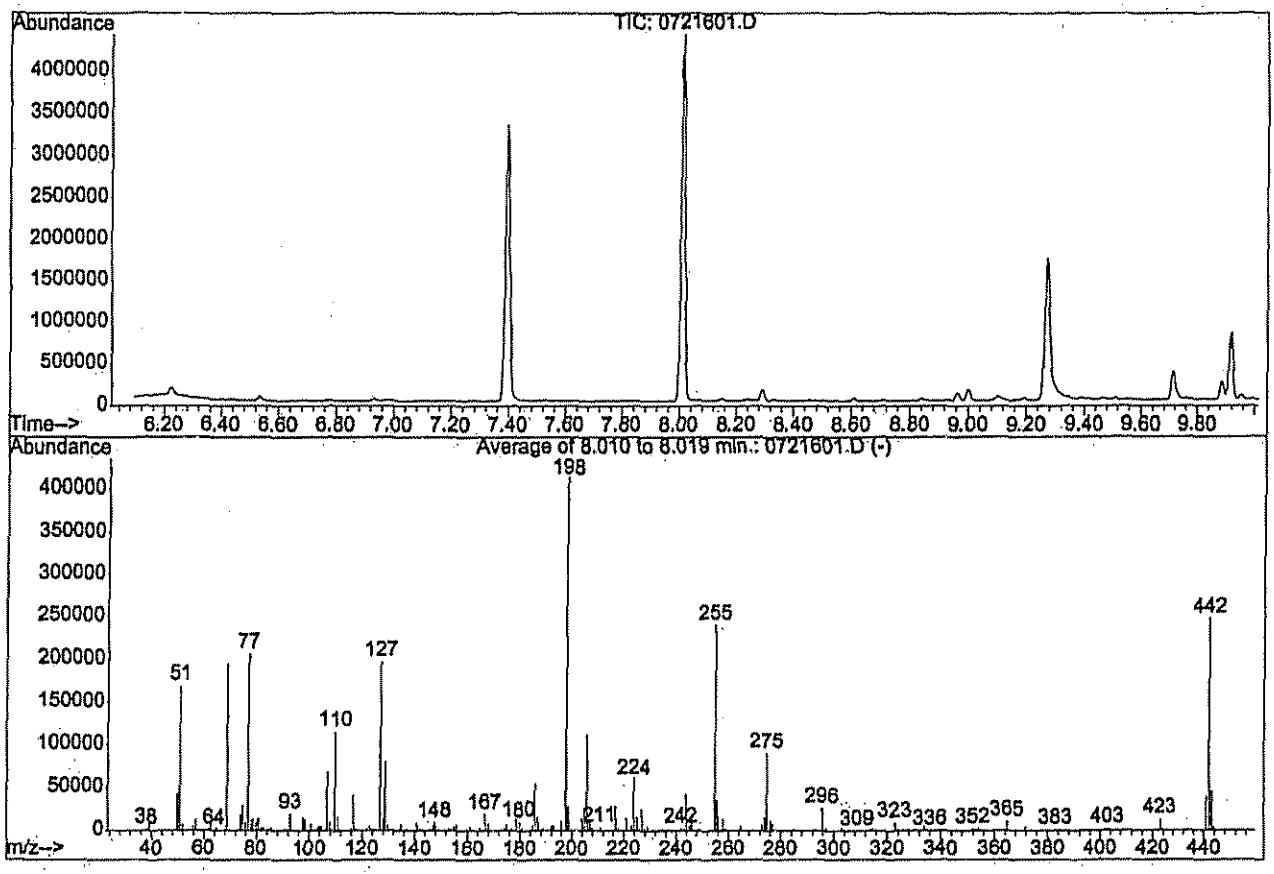
Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



8270-BN Tuning

DFTPP

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 399, 400, 401; Background Corrected with Scan 391

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	169547	PASS
68	69	0.00	2	0.8	1473	PASS
69	198	0.00	100	47.1	195021	PASS
70	69	0.00	2	0.5	885	PASS
127	198	40	60	47.6	197375	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	414379	PASS
199	198	5	9	6.7	27705	PASS
275	198	10	30	21.9	90888	PASS
365	198	1	100	2.6	10770	PASS
441	443	0.01	100	86.1	39656	PASS
442	198	40	100	59.8	247936	PASS
443	442	17	23	18.6	46032	PASS

0721601.D DFTPP.M Thu Jul 21 09:09:38 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	7.39	TIC	3725642	2.32	100
2) Benzidine	9.27	TIC	2459087	2.71	100
3) DDT	10.29	TIC	3678880	6.88	100
4) DDD	9.92	TIC	778711	151.52	100
5) DDE	9.51	TIC	29294m	1.51	

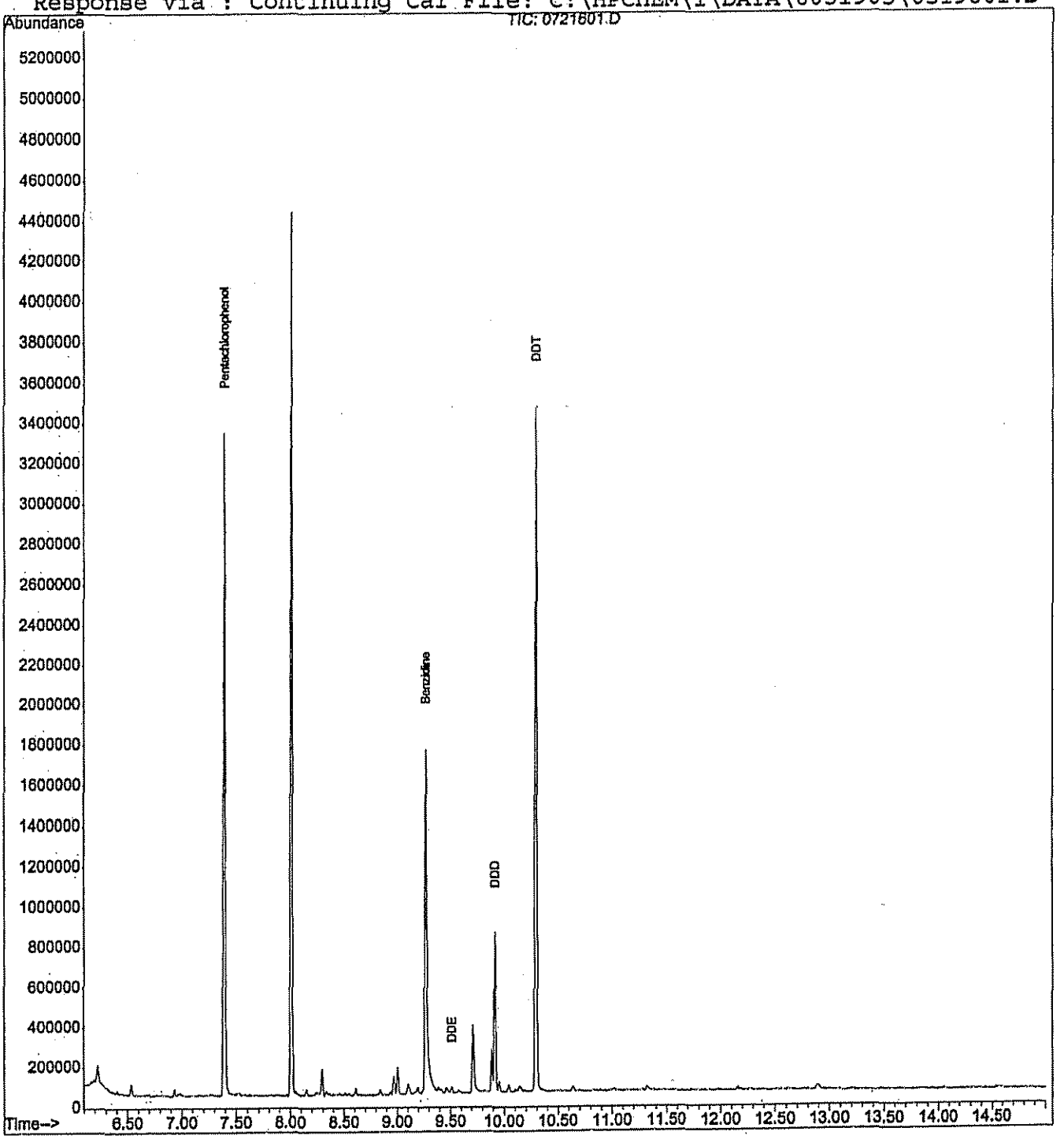
(#) = qualifier out of range (m) = manual integration
0721601.D DFTPP.M Thu Jul 21 11:10:22 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D
Acq On : 21 Jul 2005 8:54 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: DFTPP.RES

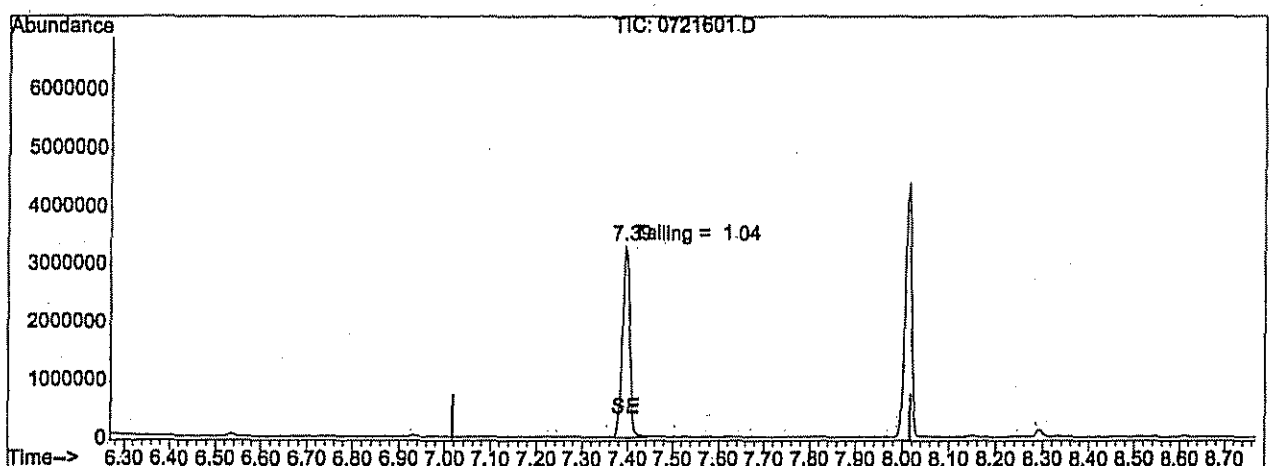
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

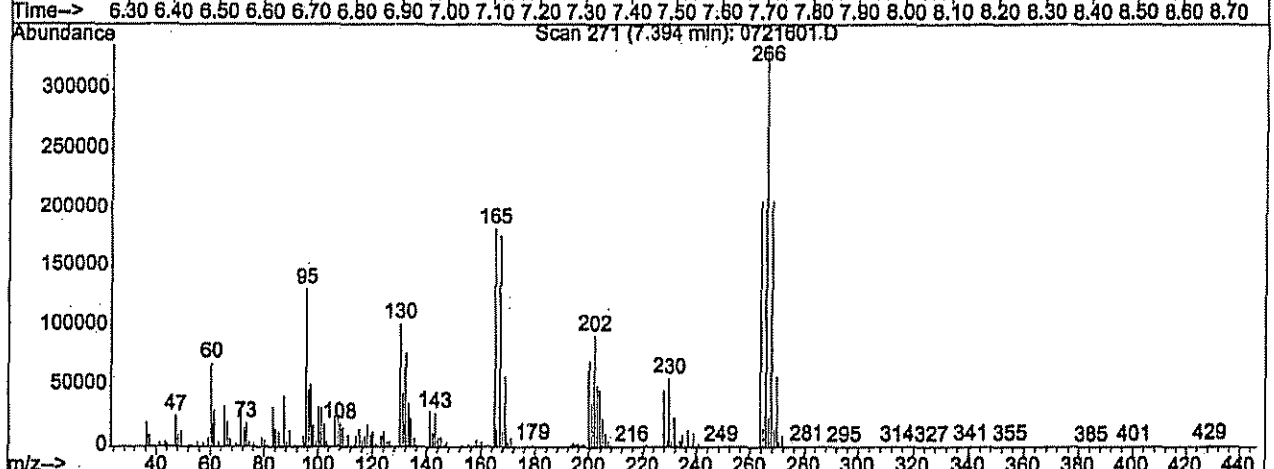


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

7.39min 2.32

response 3725642

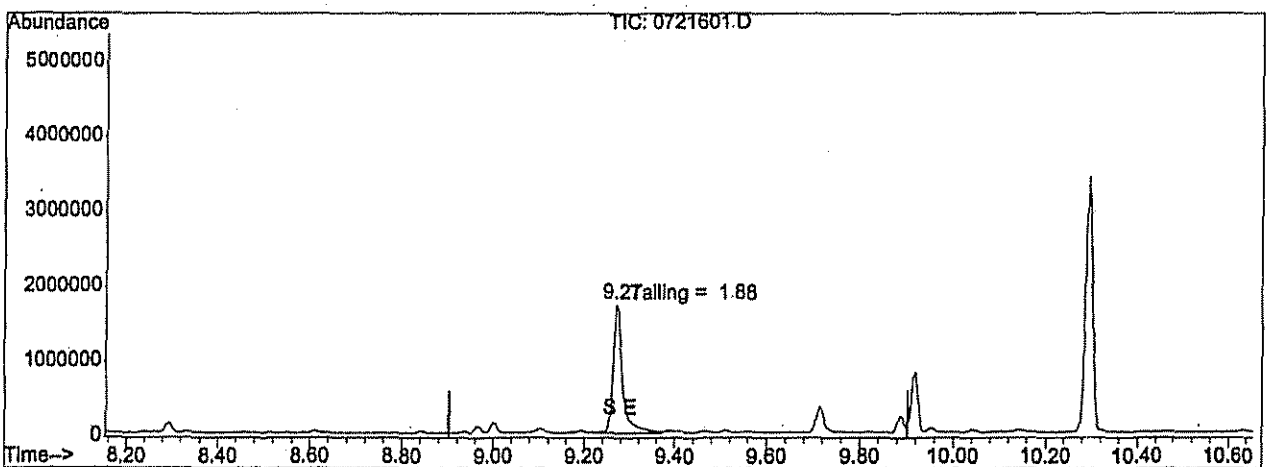
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

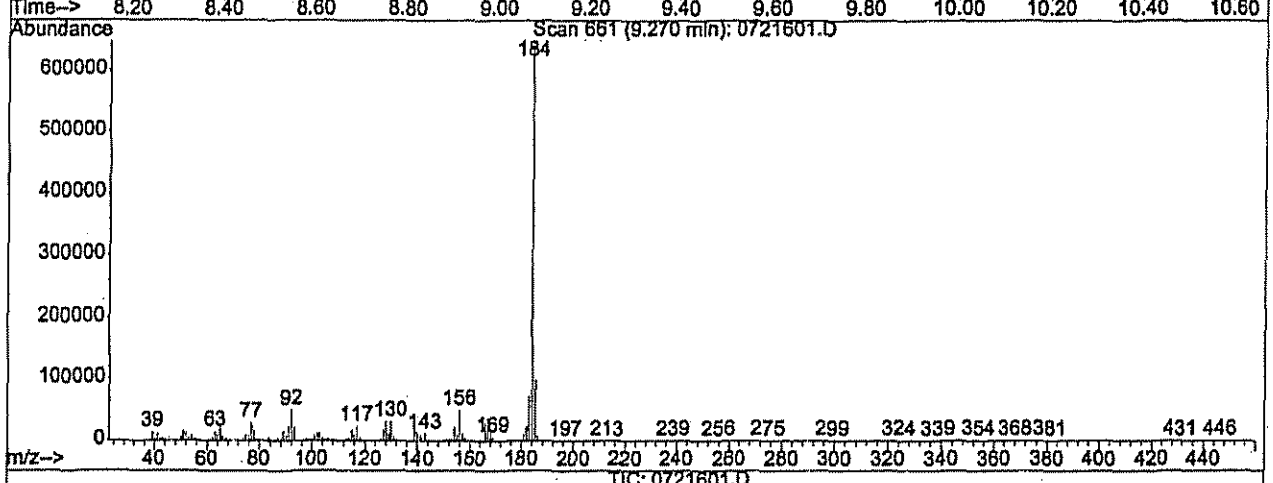
0721601.D DFTPP.M Thu Jul 21 11:11:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(2) Benzidine

9.27min 2.71

response 2459087

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0721601.D DFTPP.M Thu Jul 21 11:11:34 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	3678880
	DDD	778711
	DDE	29294
	% Breakdown =	**18.01%**

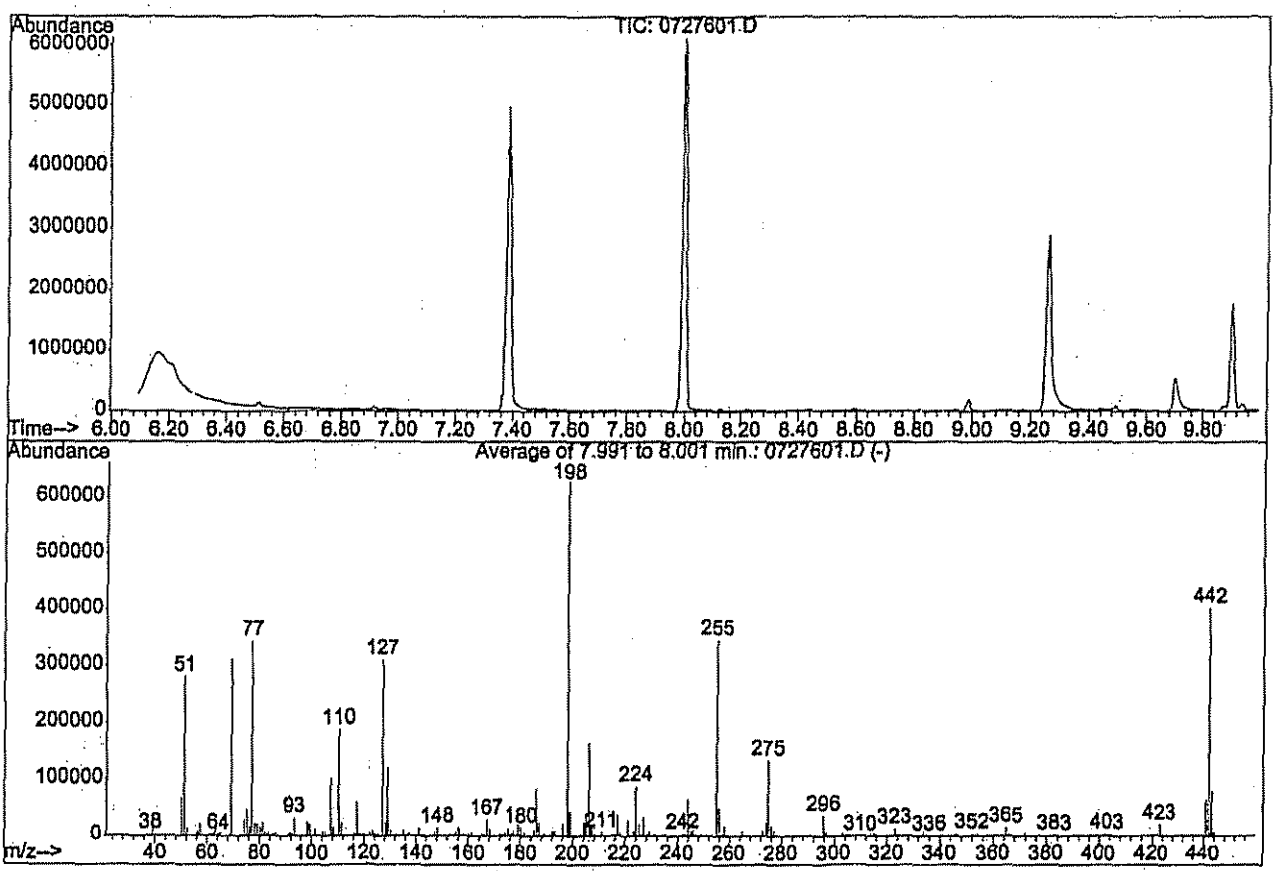
Date: 07/21/05

Instrument: MSD6

File: 0721601.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6072705\0727601.D Vial: 1
Acq On : 27 Jul 2005 7:53 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 395, 396, 397; Background Corrected with Scan 388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.6	280134	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.7	312018	PASS
70	69	0.00	2	0.5	1423	PASS
127	198	40	60	49.3	310040	PASS
197	198	0.00	1	0.2	1398	PASS
198	198	100	100	100.0	628288	PASS
199	198	5	9	6.9	43128	PASS
275	198	10	30	21.2	133003	PASS
365	198	1	100	2.4	14889	PASS
441	443	0.01	100	81.0	63896	PASS
442	198	40	100	64.2	403669	PASS
443	442	17	23	19.5	78896	PASS

0727601.D DFTPP.M Wed Jul 27 08:08:02 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727601.D Vial: 1
Acq On : 27 Jul 2005 7:53 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 8:23 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Pentachlorophenol	7.39	TIC	5823373	3.63	100
2) Benzidine	9.26	TIC	4023945	4.43	100
3) DDT	10.28	TIC	6617147	12.38	100
4) DDD	9.90	TIC	1642617m	319.63	
5) DDE	9.49	TIC	66133m	3.42	

(#) = qualifier out of range (m) = manual integration

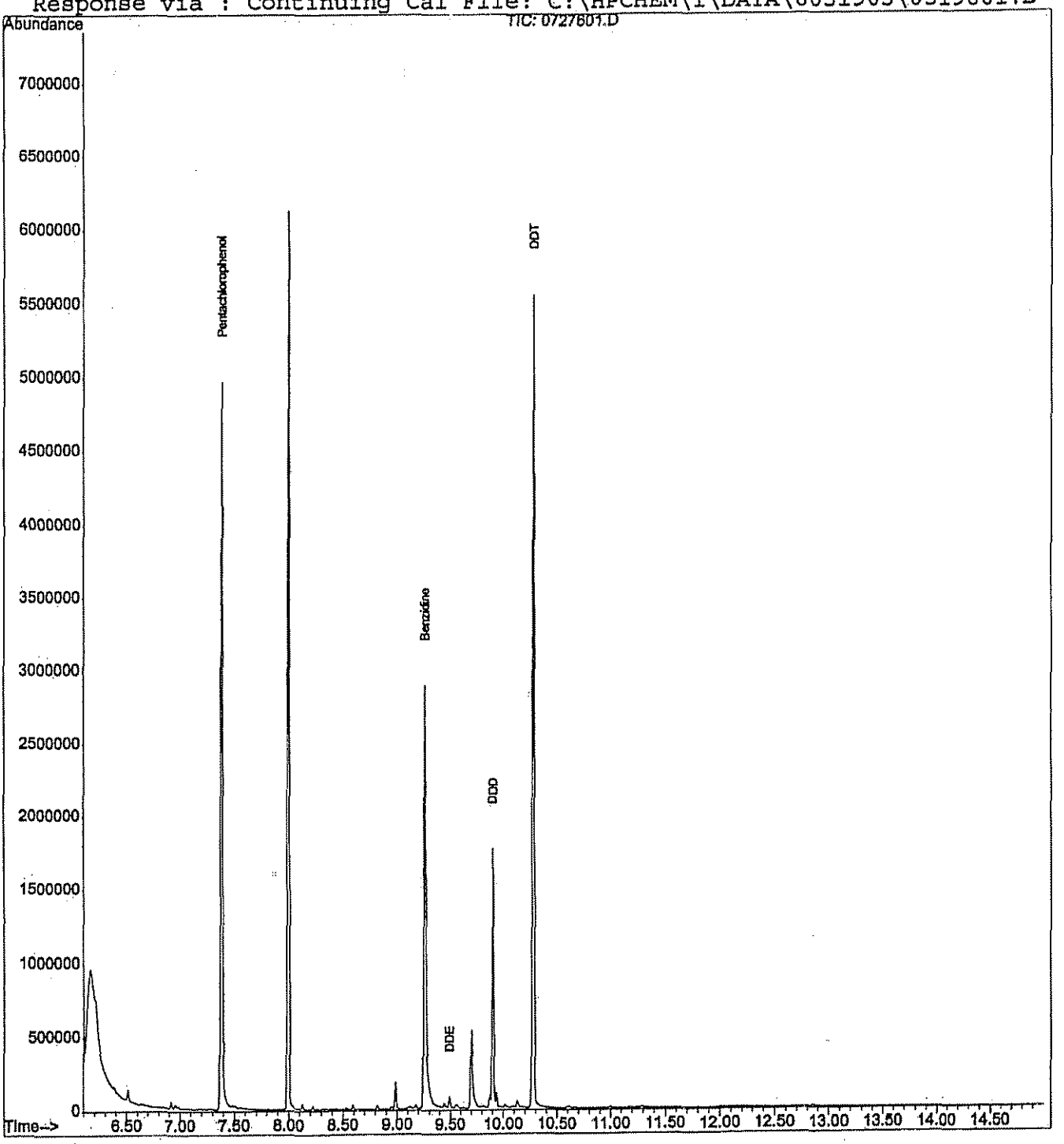
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727601.D
Acq On : 27 Jul 2005 7:53 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 27 8:23 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: DFTPP.RES

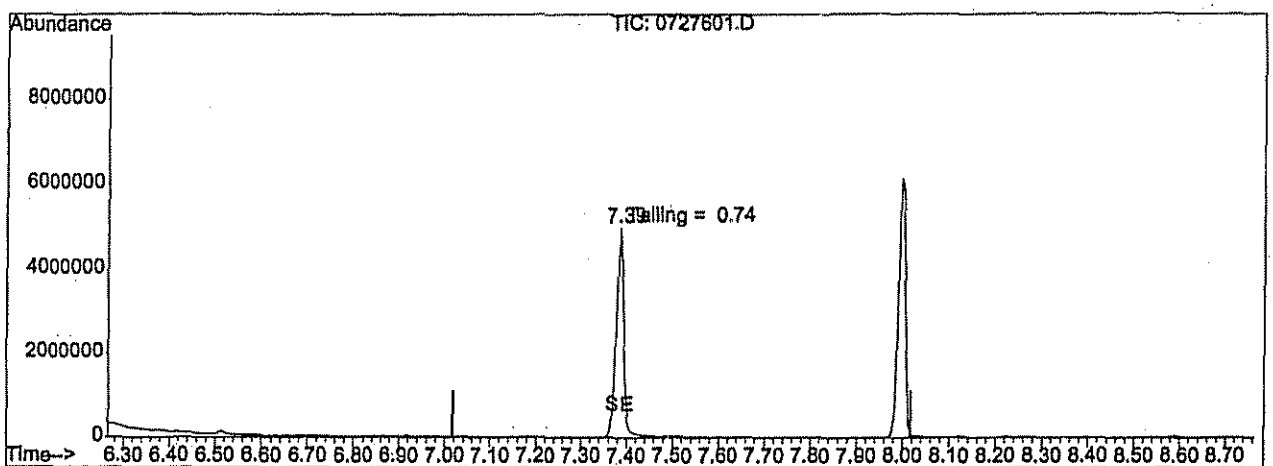
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

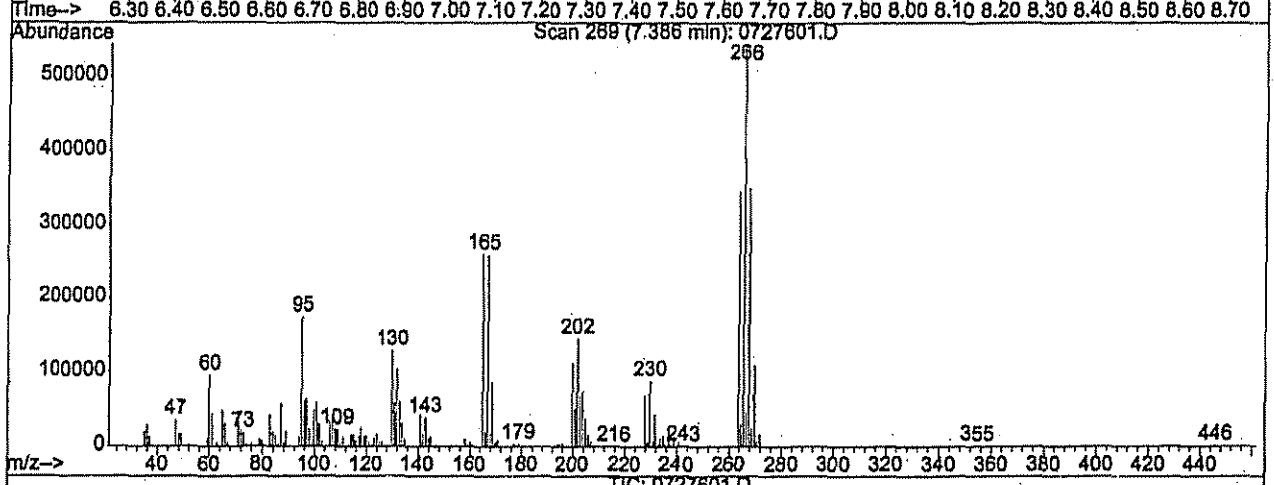


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727601.D Vial: 1
Acq On : 27 Jul 2005 7:53 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 8:23 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

7.39min 3.63

response 5823373

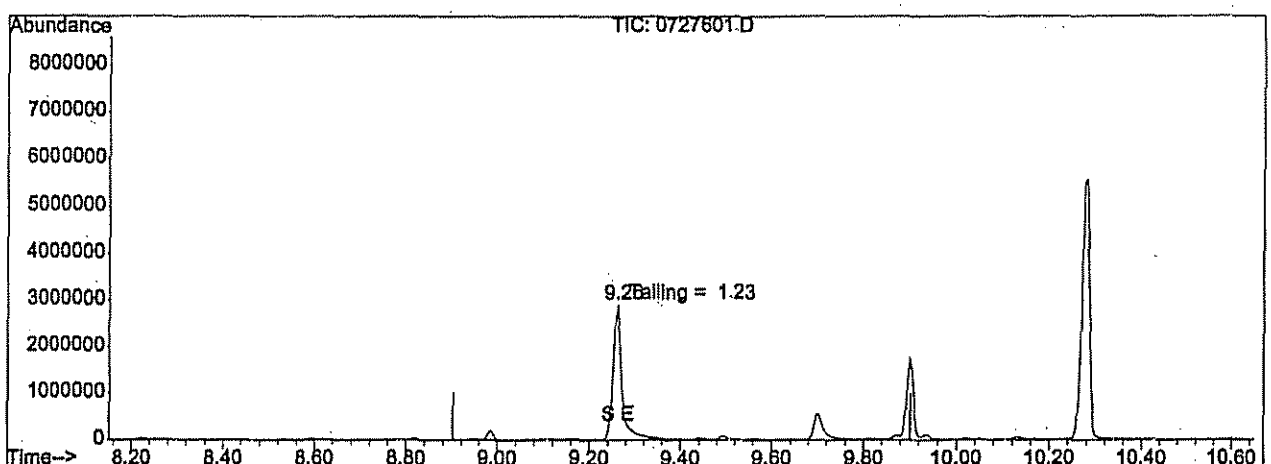
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

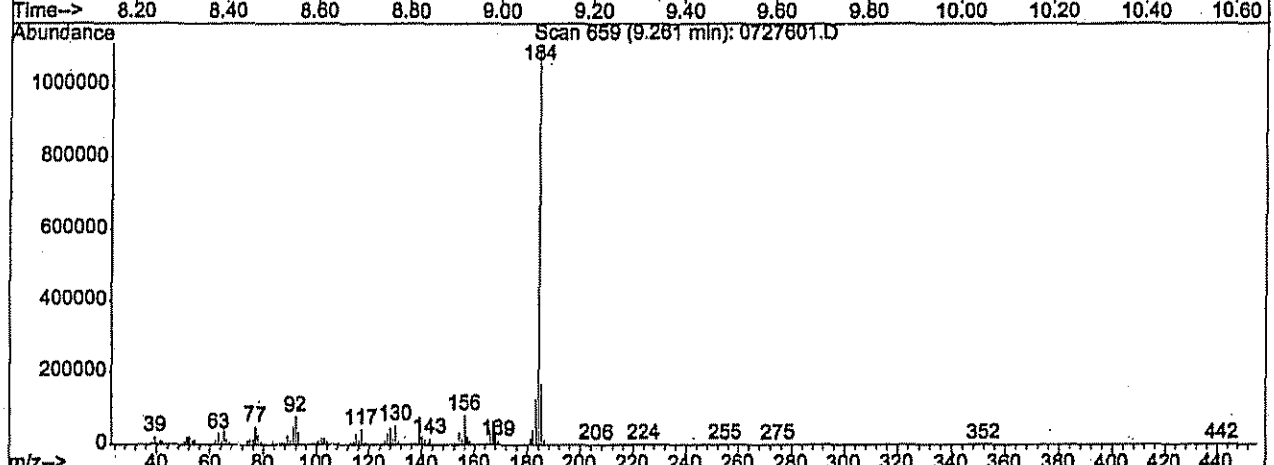
0727601.D DFTPP.M Wed Jul 27 08:23:33 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727601.D Vial: 1
Acq On : 27 Jul 2005 7:53 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 8:23 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0727601.D

(2) Benzidine

9.26min 4.43

response 4023945

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0727601.D DFTPP.M Wed Jul 27 08:23:43 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	6617147
	DDD	1542617
	DDE	63408
	% Breakdown =	**19.53%**

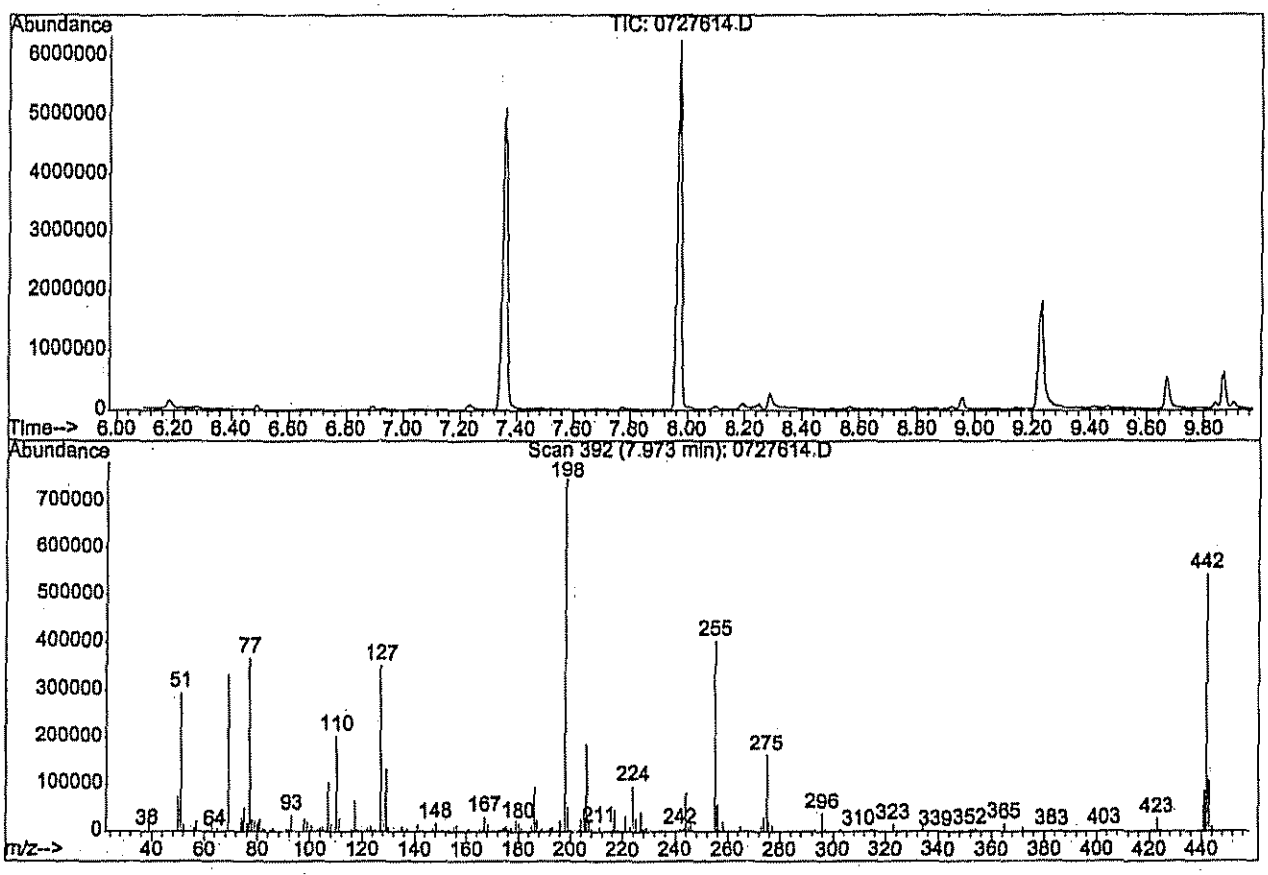
Date: 07/27/05

Instrument: MSD6

File: 0727601.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :



Spectrum Information: Scan 392

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	295680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.7	333760	PASS
70	69	0.00	2	0.5	1569	PASS
127	198	40	60	47.2	352192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	746560	PASS
199	198	5	9	6.8	50592	PASS
275	198	10	30	21.8	162624	PASS
365	198	1	100	2.2	16416	PASS
441	443	0.01	100	80.3	88088	PASS
442	198	40	100	73.0	544704	PASS
443	442	17	23	20.1	109704	PASS

0727614.D DFTPP.M Tue Aug 02 08:48:39 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Pentachlorophenol	7.36	TIC	5963561	3.72	100
2) Benzidine	9.23	TIC	2625764	2.89	100
3) DDT	10.25	TIC	7443605	13.93	100
4) DDD	9.87	TIC	566028	110.14	100
5) DDE	9.46	TIC	39478m	2.04	

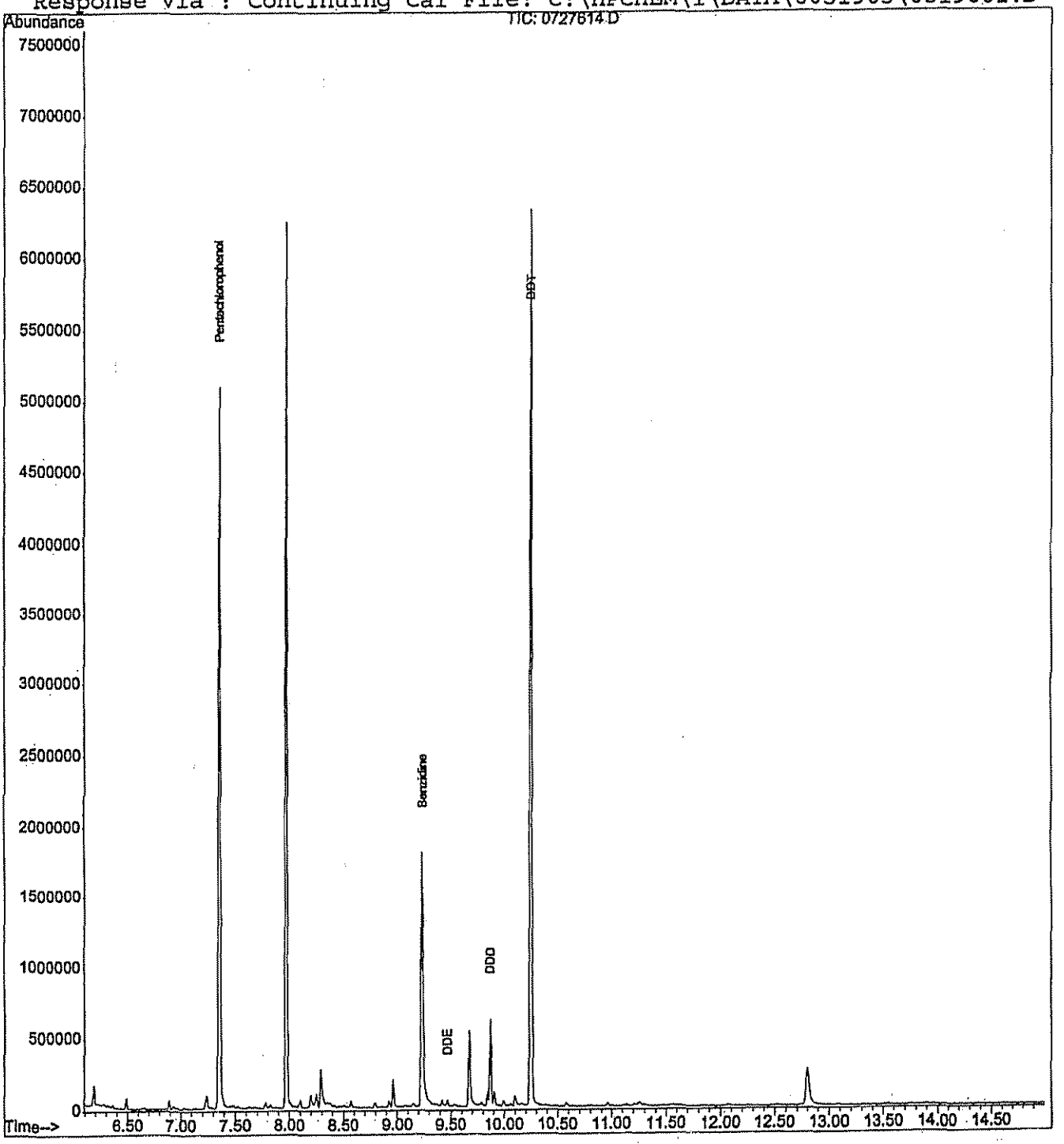
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D
Acq On : 27 Jul 2005 4:35 pm
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: DFTPP.RES

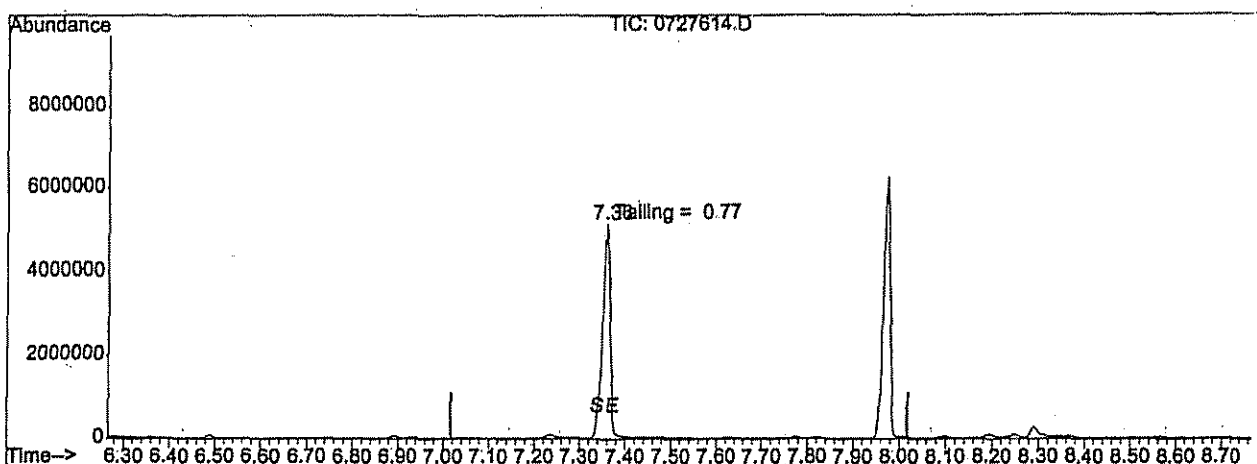
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

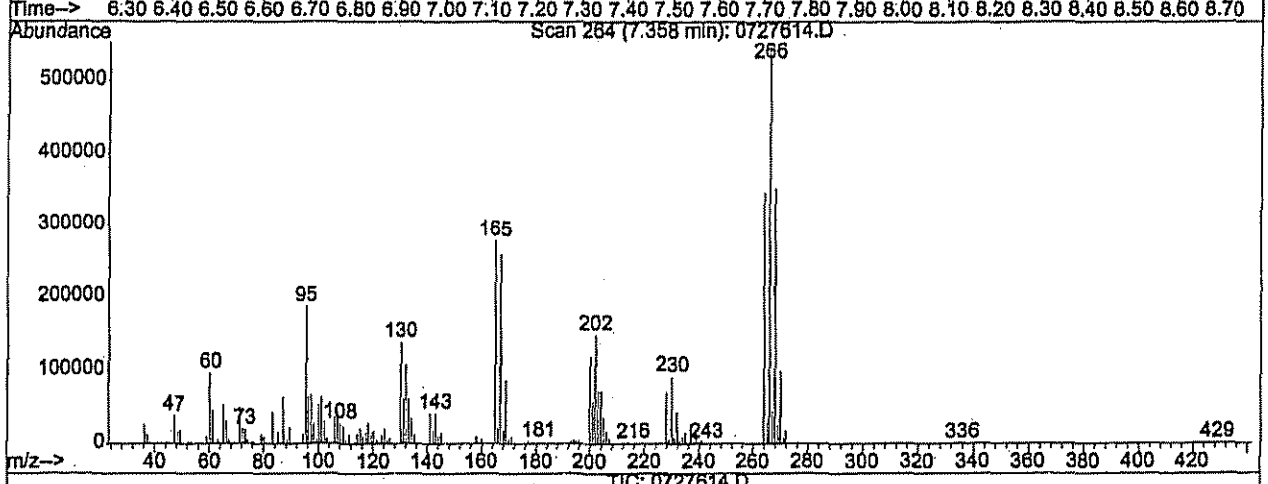


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0727614.D

(1) Pentachlorophenol

7.36min 3.72

response 5963561

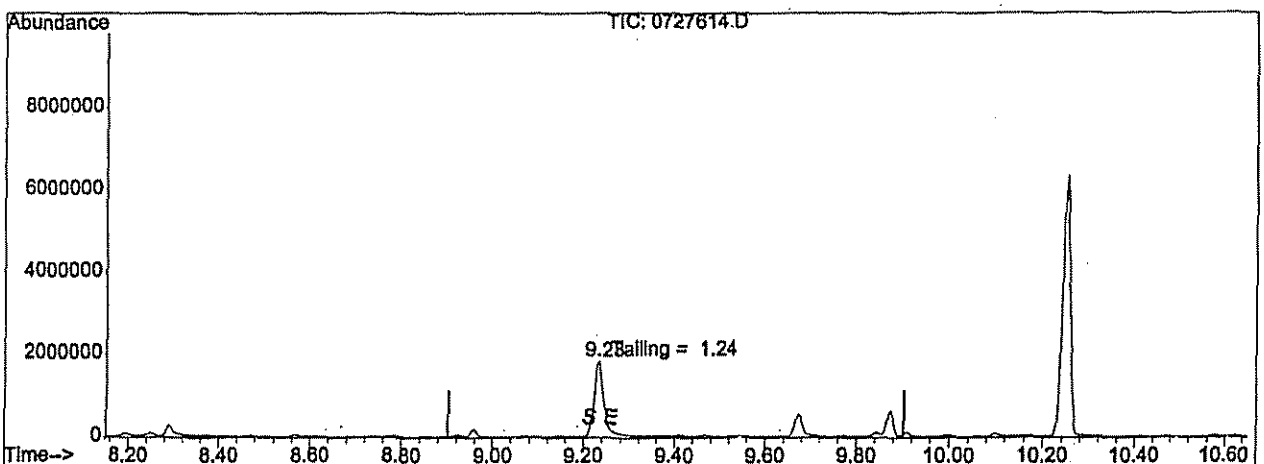
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

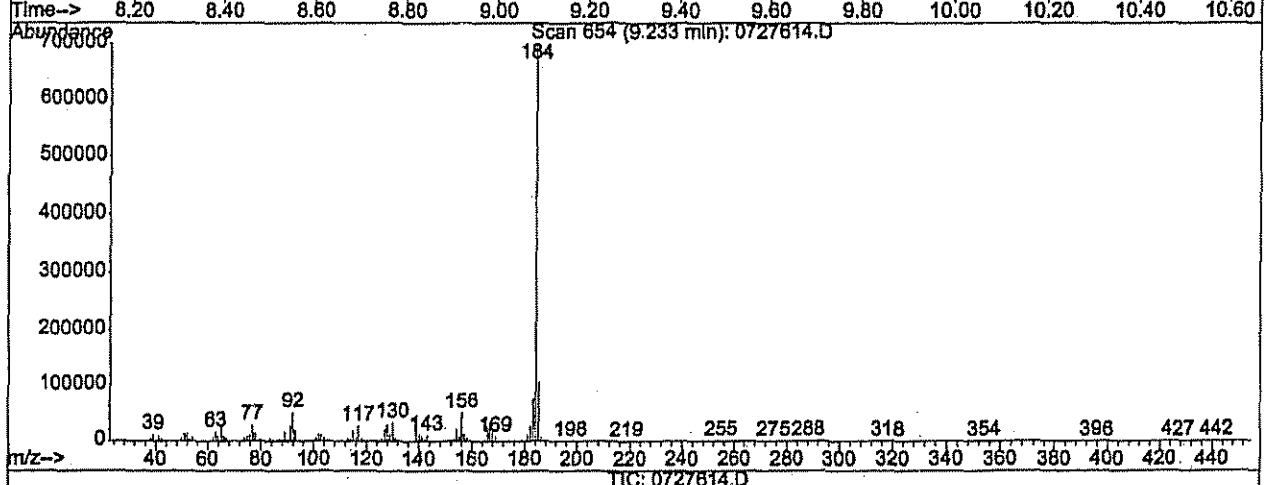
0727614.D DFTPP.M Tue Aug 02 08:49:25 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0727614.D

(2) Benzidine

9.23min 2.89

response 2625764

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0727614.D DFTPP.M Tue Aug 02 08:49:34 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	7443605
	DDD	566028
	DDE	39478
	% Breakdown =	**7.52%**

Date: 07/27/05

Instrument: MSD6

File: 0727614.d

8270-BN Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD6
Method ; 8270.M
Matrix ; NA
Cal. Date ; 21 Jul 2005 1:16 pm
Last Modified ; Thu Jul 21 13:47:19 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\HPCHEM\1\DATA\6072105\0721609.D
24 ; C:\HPCHEM\1\DATA\6072105\0721608.D
12 ; C:\HPCHEM\1\DATA\6072105\0721607.D
8 ; C:\HPCHEM\1\DATA\6072105\0721606.D
6 ; C:\HPCHEM\1\DATA\6072105\0721605.D
4 ; C:\HPCHEM\1\DATA\6072105\0721604.D
2 ; C:\HPCHEM\1\DATA\6072105\0721603.D
1 ; C:\HPCHEM\1\DATA\6072105\0721602.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	48.0	24.0	12.0	8.0	6.0	4.0	2.0	1.0		
Pyridine		1.078	0.948	1.059	0.949	0.956	0.573	0.743	0.901	20.092
N-Nitrosodimethylamine	0.648	0.688	0.696	0.628	0.671	0.661	0.585	0.662	0.655	5.409
Phenol	1.600	1.765	1.723	1.750	1.848	1.798	1.838	1.912	1.779	5.311
Bis(2-chloroethyl)ether	1.332	1.467	1.506	1.365	1.382	1.350	1.352	1.513	1.409	5.300
2-Chlorophenol	1.263	1.339	1.332	1.307	1.406	1.361	1.408	1.449	1.358	4.482
Benzyl Alcohol	0.922	0.969	0.953	0.912	0.977	0.934	0.947	1.013	0.953	3.425
1,3-Dichlorobenzene	1.243	1.297	1.310	1.289	1.347	1.339	1.352	1.392	1.321	3.475
1,4-Dichlorobenzene	1.278	1.336	1.325	1.317	1.385	1.389	1.363	1.409	1.350	3.255
1,2-Dichlorobenzene	1.128	1.186	1.191	1.189	1.263	1.252	1.296	1.308	1.227	5.122
2-Methylphenol	1.035	1.103	1.084	1.071	1.146	1.122	1.136	1.224	1.115	5.121
3-, 4-Methylphenol	1.530	1.628	1.581	1.559	1.639	1.615	1.638	1.789	1.622	4.814
Bis(2-chloroisopropyl)ether	1.476	1.603	1.588	1.554	1.653	1.650	1.628	1.760	1.614	5.128
N-Nitrosodi-n-propylamine	0.798	0.860	0.828	0.794	0.879	0.835	0.875	0.910	0.847	4.823
Hexachloroethane	0.505	0.535	0.519	0.502	0.530	0.513	0.523	0.583	0.526	4.833
2-Fluorophenol (surr)	0.994	1.046	1.038	1.017	1.015	1.014	0.989	0.972	1.011	2.430
Phenol-d6 (surr)	1.501	1.606	1.581	1.561	1.631	1.576	1.616	1.718	1.599	3.923
Nitrobenzene	0.356	0.375	0.382	0.357	0.393	0.377	0.370	0.408	0.377	4.700
Isophorone	0.531	0.560	0.573	0.540	0.589	0.564	0.570	0.613	0.568	4.583
2-Nitrophenol	0.165	0.175	0.179	0.170	0.189	0.196	0.202	0.207	0.185	8.454
2,4-Dimethylphenol	0.249	0.257	0.264	0.255	0.263	0.260	0.259	0.285	0.262	3.981
Benzoic Acid		0.179	0.171	0.146	0.148	0.137	0.117	0.166	0.152	14.177
Bis(2-chloroethoxy)methane	0.350	0.361	0.374	0.357	0.393	0.386	0.386	0.422	0.379	6.198
2,4-Dichlorophenol	0.257	0.266	0.277	0.260	0.289	0.271	0.269	0.304	0.274	5.749
1,2,4-Trichlorobenzene	0.261	0.271	0.281	0.271	0.295	0.283	0.303	0.323	0.286	7.071
Naphthalene	0.812	0.837	0.866	0.826	0.910	0.880	0.904	0.954	0.874	5.525
4-Chloroaniline	0.141	0.146	0.101	0.110		0.142	0.184	0.167	0.142	20.548
Hexachlorobutadiene	0.162	0.171	0.180	0.164	0.184	0.184	0.175	0.192	0.176	5.957
4-Chloro-3-methylphenol	0.312	0.326	0.326	0.300	0.328	0.314	0.310	0.347	0.320	4.485
2-Methylnaphthalene	0.602	0.612	0.630	0.601	0.656	0.644	0.644	0.700	0.636	5.204
Nitrobenzene-d5 (surr)	0.132	0.138	0.142	0.132	0.149	0.141	0.140	0.152	0.141	5.129
Hexachlorocyclopentadiene	0.129	0.106	0.118	0.091	0.111	0.098	0.088	0.148	0.111	18.228
2,4,6-Trichlorophenol	0.347	0.348	0.362	0.341	0.374	0.358	0.347	0.405	0.360	5.856
2,4,5-Trichlorophenol	0.356	0.356	0.373	0.340	0.375	0.364	0.354	0.405	0.365	5.332
2-Chloronaphthalene	0.925	0.932	0.998	0.929	1.011	0.982	1.023	1.114	0.989	6.445
2-Nitroaniline	0.331	0.342	0.334	0.312	0.350	0.333	0.329	0.365	0.337	4.688
3-Nitroaniline	0.087	0.051	0.037	0.040		0.063	0.069	0.097	0.063	35.837
1-Methylnaphthalene	0.923	0.918	0.981	0.938	1.019	0.981	1.012	1.098	0.984	6.116
Dimethylphthalate	1.083	1.092	1.147	1.085	1.187	1.131	1.142	1.283	1.144	5.841
Acenaphthylene	1.009	1.207	1.292	1.246	1.350	1.318	1.357	1.517	1.287	11.289
2,6-Dinitrotoluene	0.241	0.245	0.254	0.236	0.253	0.237	0.226	0.278	0.246	6.446
Acenaphthene	0.843	0.841	0.877	0.835	0.912	0.891	0.896	0.976	0.884	5.303
2,4-Dinitrophenol	0.135	0.126	0.132	0.112	0.113	0.103	0.080	0.115	0.115	15.176
4-Nitrophenol	0.165	0.155	0.156	0.132	0.147	0.136	0.115	0.158	0.146	11.424
Dibenzofuran	1.353	1.356	1.420	1.340	1.457	1.429	1.455	1.593	1.425	5.783
2,4-Dinitrotoluene	0.303	0.298	0.304	0.289	0.303	0.311	0.280	0.347	0.304	6.467
Fluorene	1.019	1.011	1.068	0.994	1.101	1.073	1.053	1.128	1.056	4.369
Diethylphthalate	0.991	1.006	1.067	0.993	1.087	1.057	1.032	1.138	1.046	4.908
4-Chlorophenyl phenyl ether	0.512	0.517	0.552	0.533	0.577	0.559	0.570	0.600	0.553	5.523
4-Nitroaniline		0.099	0.116	0.115	0.132	0.124	0.099	0.133	0.117	12.025
2-Fluorobiphenyl (surr)	1.047	1.047	1.116	1.057	1.171	1.142	1.149	1.297	1.128	7.425
2,4,6-Tribromophenol (surr)	0.126	0.119	0.125	0.114	0.115	0.113	0.111	0.119	0.118	4.649
4,6-Dinitro-2-methylphenol	0.136	0.131	0.135	0.118	0.122	0.113	0.088	0.131	0.122	13.117
Diphenylamine		0.332	0.339	0.376	0.459	0.436	0.483	0.432	0.408	14.554
4-bromophenyl phenyl ether	0.196	0.204	0.214	0.208	0.228	0.227	0.241	0.235	0.219	7.316
Hexachlorobenzene	0.192	0.199	0.207	0.202	0.225	0.209	0.212	0.231	0.210	6.256
Pentachlorophenol	0.144	0.142	0.148	0.135	0.144	0.135	0.112	0.148	0.139	8.511
Phenanthrene	0.918	0.947	0.981	0.954	1.038	1.006	1.026	1.093	0.995	5.708

Carbazole				0.351	0.429	0.353	0.510	0.377	0.404	16.543
Anthracene	0.856	0.875	0.914	0.879	0.971	0.910	0.938	1.026	0.921	6.071
Azobenzene	0.781	0.830	0.857	0.820	0.910	0.876	0.907	0.937	0.865	6.107
Di-n-Butylphthalate	1.108	1.142	1.187	1.175	1.253	1.217	1.269	1.338	1.211	6.126
Fluoranthene	0.976	0.971	1.026	0.959	1.059	1.000	1.005	1.059	1.007	3.841
alpha-BHC	0.134	0.148	0.157	0.152		0.159	0.165	0.180	0.156	9.112
beta-BHC	0.115	0.120	0.128	0.120		0.128	0.124	0.133	0.124	4.940
gamma-BHC	0.118	0.125	0.131	0.126		0.130	0.124	0.144	0.128	6.426
delta-BHC	0.108	0.113	0.118	0.114		0.114	0.114	0.127	0.116	5.252
Heptachlor	0.141	0.150	0.151	0.146		0.146	0.148	0.166	0.150	5.262
Aldrin	0.144	0.153	0.158	0.159		0.163	0.169	0.177	0.160	6.625
Heptachlor Epoxide	0.054	0.053	0.057	0.055		0.055	0.055	0.054	0.055	2.196
Endosulfan I	0.034	0.039	0.042	0.043		0.041	0.043	0.042	0.040	7.616
4,4'-DDE	0.226	0.228	0.240	0.228		0.235	0.224	0.255	0.234	4.580
Dieldrin	0.184	0.190	0.201	0.198		0.198	0.215	0.213	0.200	5.672
Endrin	0.037	0.038	0.036	0.032		0.032	0.028	0.037	0.034	10.283
Endosulfan II	Not Calibrated									
4,4'-DDD	0.367	0.397	0.425	0.402		0.421	0.420	0.450	0.412	6.376
Endosulfan Sulfate	0.037	0.052	0.054	0.052		0.052	0.050	0.060	0.051	13.251
4,4'-DDT	0.290	0.321	0.320	0.301		0.312	0.303	0.377	0.318	8.987
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.037	0.043	0.047	0.044		0.044	0.038	0.045	0.042	8.879
Methoxychlor	0.561	0.669	0.722	0.695		0.676	0.665	0.807	0.685	10.721
Pyrene	1.557	1.410	1.357	1.304	1.436	1.442	1.460	1.501	1.433	5.510
Butylbenzylphthalate	0.684	0.717	0.695	0.658	0.722	0.682	0.697	0.745	0.700	3.909
Benzo[a]anthracene	1.236	1.249	1.258	1.204	1.306	1.255	1.235	1.349	1.261	3.606
3,3'-Dichlorobenzidine	0.196	0.186	0.172	0.182	0.210	0.190	0.204	0.200	0.193	6.465
Chrysene	1.008	1.028	1.045	1.016	1.081	1.040	1.034	1.097	1.044	2.944
Bis(2-ethylhexyl)phthalate	0.885	0.929	0.910	0.875	0.972	0.936	0.977	1.000	0.935	4.810
4-Terphenyl-d14 (surr)	1.096	0.991	0.949	0.906	0.981	0.984	0.977	1.040	0.991	5.763
Di-n-octylphthalate	2.234	2.457	2.529	2.224	2.371	2.184	2.209	2.363	2.322	5.506
Benzo[b]fluoranthene	1.334	1.374	1.434	1.300	1.403	1.342	1.296	1.359	1.355	3.538
Benzo[k]fluoranthene	1.141	1.287	1.375	1.260	1.356	1.278	1.239	1.335	1.284	5.838
Benzo[a]pyrene	1.023	1.078	1.099	0.984	1.080	1.009	1.019	1.076	1.046	4.023
Indeno(1,2,3-c,d)pyrene	0.750	0.639	0.614	0.569	0.576	0.535	0.579	0.600	0.608	10.797
Dibenzo[a,h]anthracene	0.708	0.607	0.543	0.502	0.528	0.471	0.492	0.560	0.551	13.807
Benzo[g,h,i]perylene	0.752	0.656	0.645	0.612	0.637	0.564	0.618	0.629	0.639	8.375

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	466977	4.00 ug/mL	-0.14
18) Naphthalene-D8	8.95	136	1899395	4.00 ug/mL	-0.14
33) Acenaphthene-d10	11.73	164	1109965	4.00 ug/mL	-0.15
55) Phenanthrene-D10	14.12	188	1576803	4.00 ug/mL	-0.16
85) Chrysene-D12	18.36	240	1112033	4.00 ug/mL	-0.17
93) Perylene-D12	20.64	264	794965	4.00 ug/mL	-0.23
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.21	112	113527	0.96 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 9.60%	
17) Phenol-d6 (surr)	6.51	99	200613	1.08 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 10.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	72373	1.07 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 10.70%	
53) 2-Fluorobiphenyl (surr)	10.68	172	359779	1.16 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 11.60%	
54) 2,4,6-Tribromophenol (surr	13.00	330	33091	1.02 ug/mL	-0.16
Spiked Amount 10.000			Recovery	= 10.20%	
92) 4-Terphenyl-d14 (surr)	16.71	244	289214	1.04 ug/mL	-0.16
Spiked Amount 10.000			Recovery	= 10.40%	
Target Compounds					Qvalue
2) Pyridine	3.65	79	86705m	1.37 ug/mL	
3) N-Nitrosodimethylamine	3.61	74	77258	0.99 ug/mL	95
4) Phenol	6.53	94	223228	1.06 ug/mL	93
5) Bis(2-chloroethyl)ether	6.66	93	176654	1.08 ug/mL	99
6) 2-Chlorophenol	6.72	128	169202	1.10 ug/mL	96
7) Benzyl Alcohol	7.24	108	118260	1.10 ug/mL	87
8) 1,3-Dichlorobenzene	6.93	146	162466	1.07 ug/mL	96
9) 1,4-Dichlorobenzene	7.04	146	164444	1.05 ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	152759	1.08 ug/mL	96
11) 2-Methylphenol	7.41	107	142926	1.12 ug/mL	98
12) 3-, 4-Methylphenol	7.64	107	208904	1.13 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	205525	1.07 ug/mL	99
14) N-Nitrosodi-n-propylamine	7.65	70	106277	1.09 ug/mL	94
15) Hexachloroethane	7.77	117	68016	1.10 ug/mL	93
19) Nitrobenzene	7.88	77	193948	1.04 ug/mL	99
20) Isophorone	8.25	82	291295	1.05 ug/mL	98
21) 2-Nitrophenol	8.36	139	98468	1.13 ug/mL	92
22) 2,4-Dimethylphenol	8.46	122	135151	1.09 ug/mL	97
23) Benzoic Acid	8.58	122	79008	1.69 ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	200596	1.10 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	144582	1.15 ug/mL	95
26) 1,2,4-Trichlorobenzene	8.87	180	153529	1.15 ug/mL	97
27) Naphthalene	8.97	128	453179	1.09 ug/mL	99
28) 4-Chloroaniline	9.10	127	79275	1.87 ug/mL#	94
29) Hexachlorobutadiene	9.20	225	91405	1.09 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	164717	1.11 ug/mL	95
31) 2-Methylnaphthalene	10.07	142	332631	1.13 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	41015	1.86 ug/mL	99
35) 2,4,6-Trichlorophenol	10.53	196	112468	1.14 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	112388	1.10 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	309191	1.13 ug/mL	97
38) 2-Nitroaniline	11.02	65	101330	1.00 ug/mL	95
39) 3-Nitroaniline	11.72	138	26908	0.37 ug/mL#	85
40) 1-Methylnaphthalene	10.23	142	304730	1.12 ug/mL	97
41) Dimethylphthalate	11.36	163	355917	1.10 ug/mL	98
42) Acenaphthylene	11.50	152	420824	1.18 ug/mL	98
43) 2,6-Dinitrotoluene	11.43	165	77244	1.08 ug/mL	97
44) Acenaphthene	11.78	153	270756	1.11 ug/mL	98
45) 2,4-Dinitrophenol	11.90	184	31876	0.77 ug/mL#	88
46) 4-Nitrophenol	11.98	109	43919	0.94 ug/mL	94
47) Dibenzofuran	12.08	168	442181	1.11 ug/mL	98
48) 2,4-Dinitrotoluene	12.08	165	96252	1.07 ug/mL	94
49) Fluorene	12.61	166	313059	1.06 ug/mL	97
50) Diethylphthalate	12.50	149	315868	1.05 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	166504	1.09 ug/mL	96
52) 4-Nitroaniline	12.66	138	36823	0.95 ug/mL#	87
56) 4,6-Dinitro-2-methylphenol	12.72	198	51629	0.90 ug/mL	94
57) Diphenylamine	12.83	169	170462	1.04 ug/mL	93
58) 4-bromophenyl phenyl ether	13.42	248	92717	1.16 ug/mL	98
59) Hexachlorobenzene	13.50	284	91138	1.16 ug/mL	92
60) Pentachlorophenol	13.82	266	58424	1.01 ug/mL	91
61) Phenanthrene	14.15	178	430827	1.10 ug/mL	98
62) Carbazole	14.50	167	148509	0.52 ug/mL#	92
63) Anthracene	14.22	178	404305	1.11 ug/mL	99
64) Azobenzene	12.89	77	369480	1.07 ug/mL	97
65) Di-n-Butylphthalate	15.14	149	527366	1.13 ug/mL	97
66) Fluoranthene	16.05	202	417643	1.02 ug/mL	98
67) alpha-BHC	13.43	183	70831	1.14 ug/mL	96
68) beta-BHC	13.77	181	52469	1.01 ug/mL	99
69) gamma-BHC	13.91	183	56840	1.07 ug/mL	94
70) delta-BHC	14.27	183	50175	1.00 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

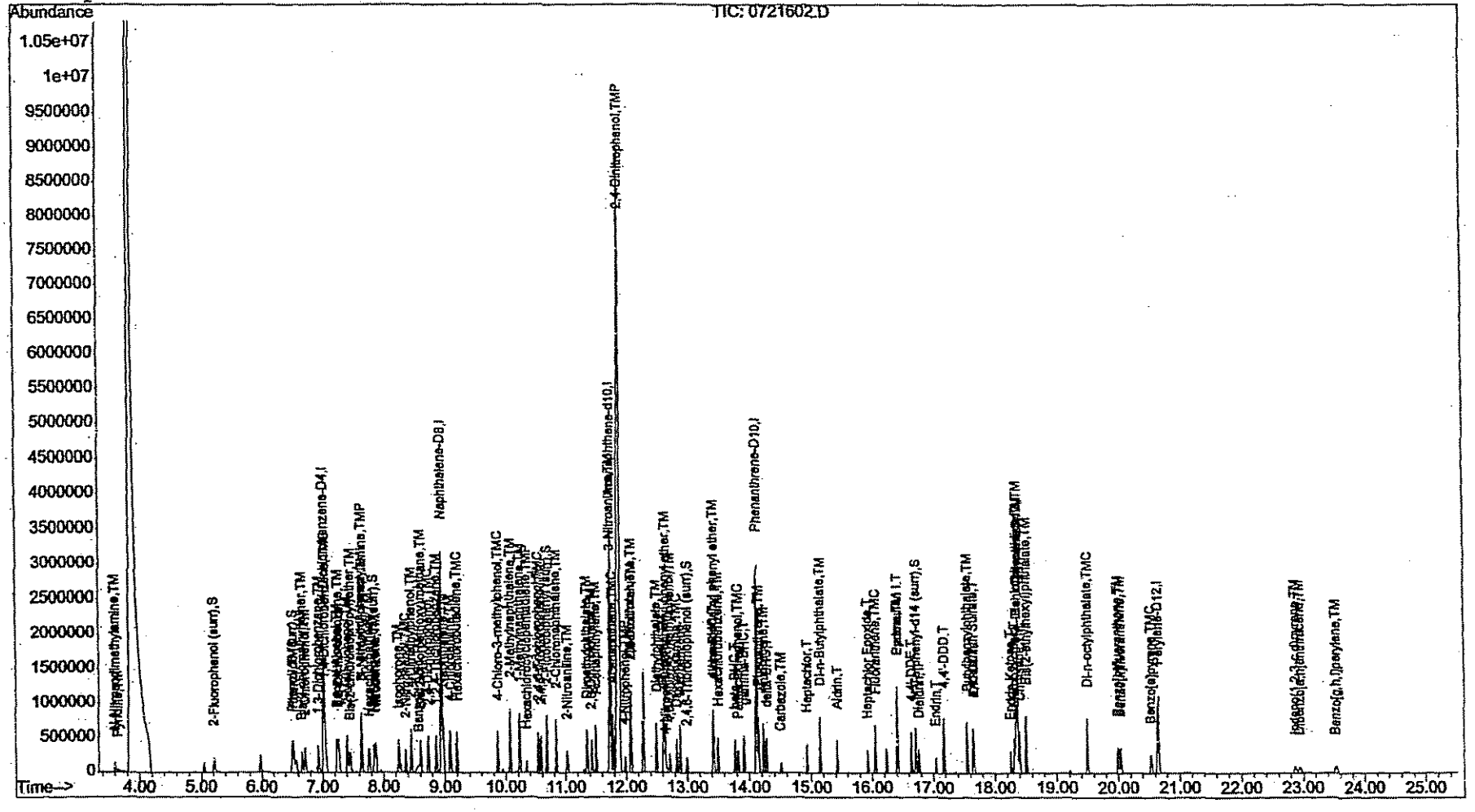
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	65538	1.11 ug/mL	97
72)	Aldrin	15.42	66	69627	1.02 ug/mL	92
73)	Heptachlor Epoxide	15.93	353	21321	1.03 ug/mL	98
74)	Endosulfan I	16.42	195	16419	0.96 ug/mL#	67
75)	4,4'-DDE	16.64	246	100530	1.04 ug/mL	98
76)	Dieldrin	16.76	79	83921	0.96 ug/mL	99
77)	Endrin	17.04	263	14470	0.96 ug/mL	98
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.17	235	177364	1.10 ug/mL#	96
80)	Endosulfan Sulfate	17.64	272	23555	1.11 ug/mL	97
81)	4,4'-DDT	17.65	235	148802	1.19 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	17604	1.13 ug/mL	98
84)	Methoxychlor	18.31	227	318092	1.29 ug/mL#	1
86)	Pyrene	16.41	202	417290	1.00 ug/mL	98
87)	Butylbenzylphthalate	17.54	149	207109	1.05 ug/mL	97
88)	Benzo[a]anthracene	18.34	228	375040	1.25 ug/mL	97
89)	3,3'-Dichlorobenzidine	18.34	252	55497	3.07 ug/mL	94
90)	Chrysene	18.40	228	304945	1.04 ug/mL	97
91)	Bis(2-ethylhexyl)phthalate	18.50	149	277881	1.09 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	469566	1.08 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	270080	1.12 ug/mL	100
96)	Benzo[k]fluoranthene	20.04	252	265271	0.98 ug/mL	97
97)	Benzo[a]pyrene	20.54	252	213913	1.12 ug/mL	95
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	119284m	3.38 ug/mL	
99)	Dibenzo[a,h]anthracene	22.95	278	111382	2.90 ug/mL	97
100)	Benzo[g,h,i]perylene	23.53	276	125079	1.95 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

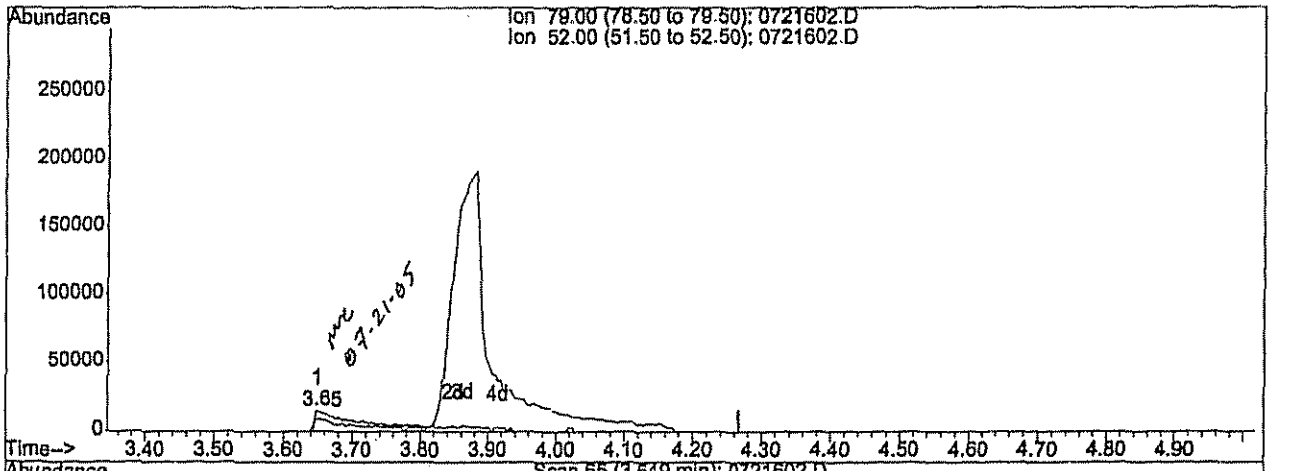
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

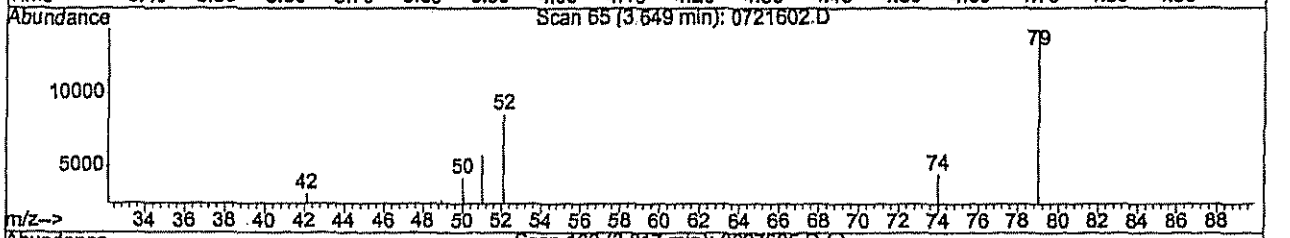


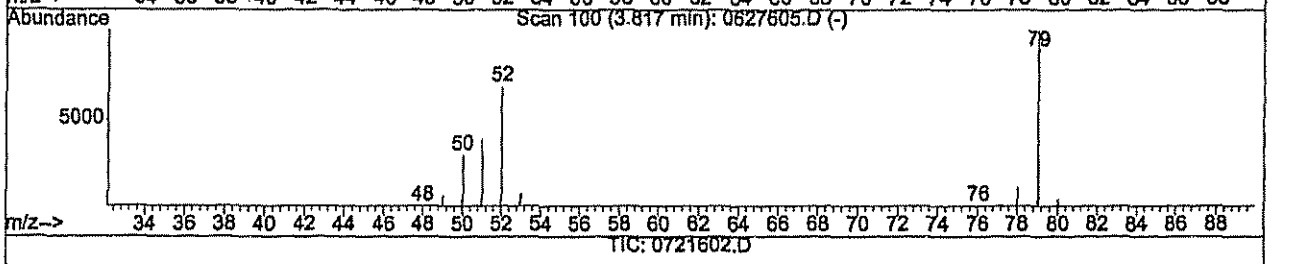
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration







(2) Pyridine (TM)

3.65min 1.37ug/mL m

response 86705

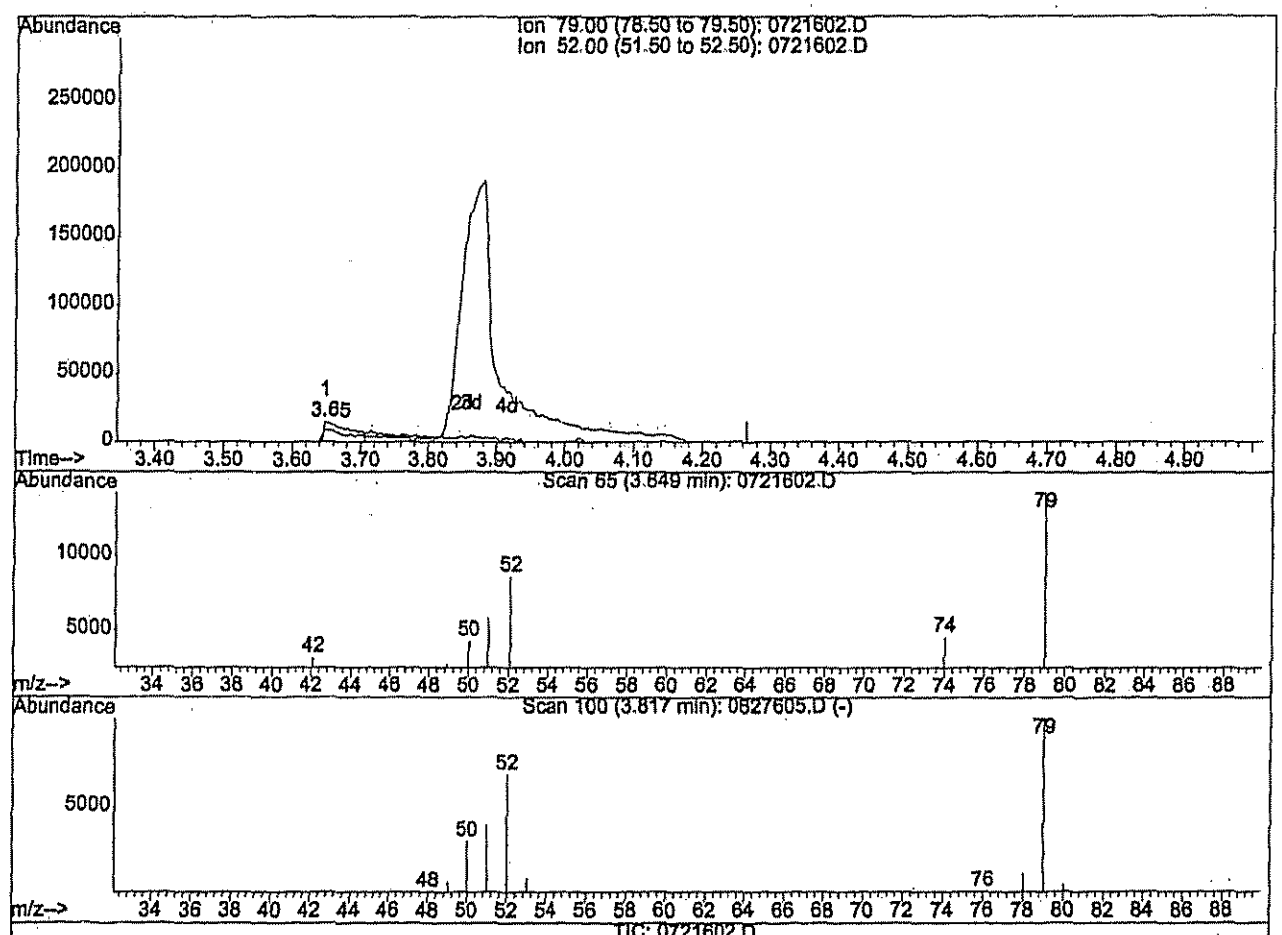
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	22.98#
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:13:51 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 9:43 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.65min 0.93ug/mL

response 37944

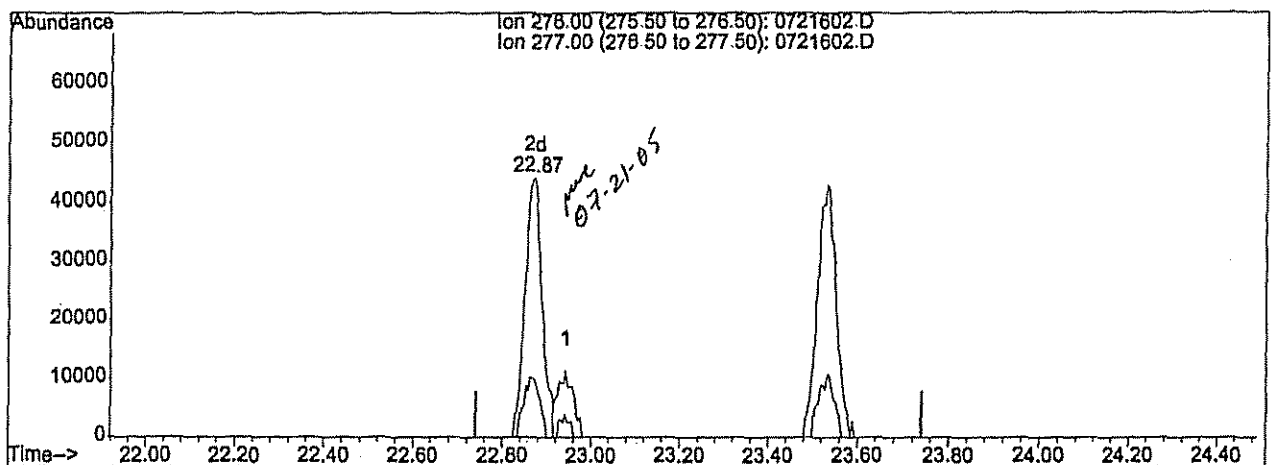
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	52.51
0.00	0.00	0.00
0.00	0.00	0.00

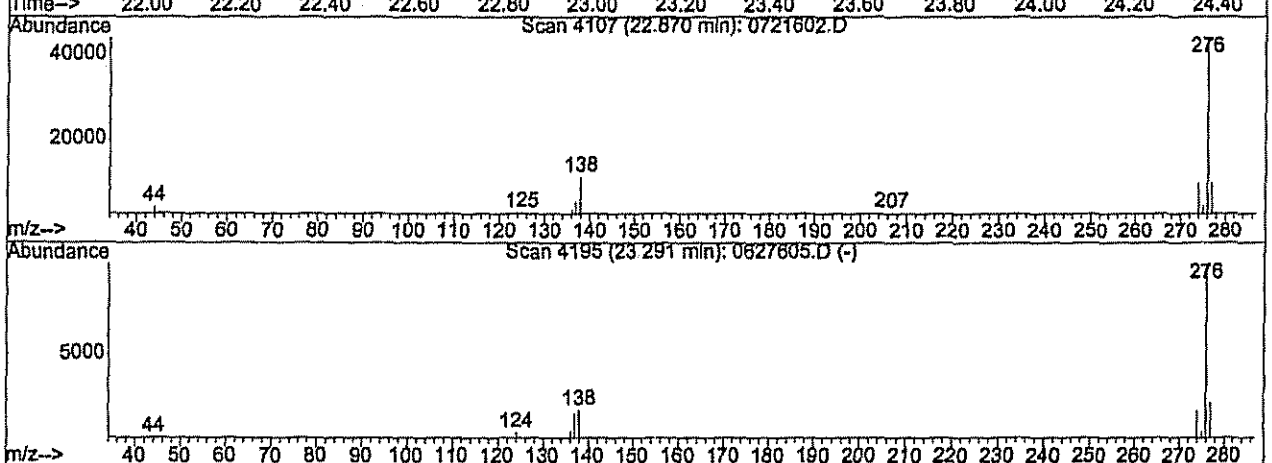
0721602.D 8270.M Thu Jul 21 11:13:46 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration





TIC: 0721602.D

(98) Indeno(1,2,3-c,d)pyrene (TM)

22.87min 3.38ug/mL m

response 119284

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	22.10
0.00	0.00	0.00
0.00	0.00	0.00

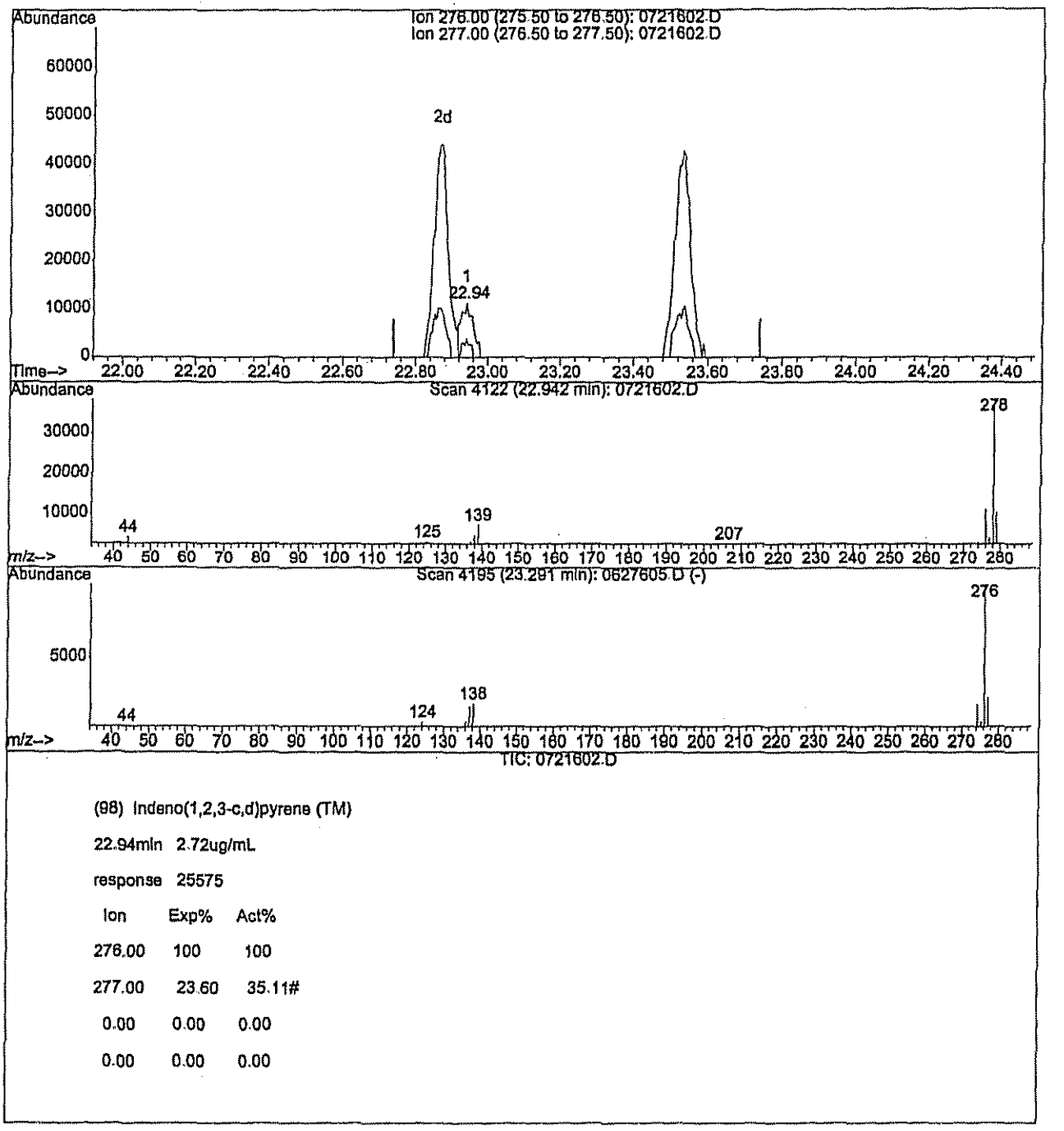
0721602.D 8270.M Thu Jul 21 11:14:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D
Acq On : 21 Jul 2005 9:18 am
Sample : SVCAL1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.94min 2.72ug/mL

response 25575

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	35.11#
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:14:42 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	137595	4.00 ug/mL	0.00
18) Naphthalene-D8	8.95	136	576094	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.73	164	335187	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438153	4.00 ug/mL	0.00
85) Chrysene-D12	18.35	240	303508	4.00 ug/mL	0.00
93) Perylene-D12	20.64	264	219438	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.21	112	68061m	2.03 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 20.30%	
17) Phenol-d6 (surr)	6.51	99	111193	1.88 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 18.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	40243	1.83 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 18.30%	
53) 2-Fluorobiphenyl (surr)	10.68	172	192629	1.77 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 17.70%	
54) 2,4,6-Tribromophenol (surr	12.99	330	18566	1.86 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 18.60%	
92) 4-Terphenyl-d14 (surr)	16.71	244	148246	1.88 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 18.80%	
Target Compounds					Qvalue
2) Pyridine	3.72	79	39414m	1.54 ug/mL	
3) N-Nitrosodimethylamine	3.61	74	40235	1.77 ug/mL	93
4) Phenol	6.53	94	126451	1.92 ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	93002	1.79 ug/mL	99
6) 2-Chlorophenol	6.72	128	96861	1.94 ug/mL	98
7) Benzyl Alcohol	7.24	108	65176	1.87 ug/mL	89
8) 1,3-Dichlorobenzene	6.93	146	93006	1.94 ug/mL	95
9) 1,4-Dichlorobenzene	7.04	146	93767	1.94 ug/mL	94
10) 1,2-Dichlorobenzene	7.27	146	89177	1.98 ug/mL	99
11) 2-Methylphenol	7.41	107	78152	1.86 ug/mL	92
12) 3-, 4-Methylphenol	7.64	107	112715	1.83 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	112011	1.85 ug/mL#	97
14) N-Nitrosodi-n-propylamine	7.65	70	60174	1.92 ug/mL	98
15) Hexachloroethane	7.77	117	36008	1.80 ug/mL	90
19) Nitrobenzene	7.88	77	106445	1.81 ug/mL	96
20) Isophorone	8.25	82	164123	1.86 ug/mL	99
21) 2-Nitrophenol	8.37	139	58235	1.95 ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	74504	1.82 ug/mL	98
23) Benzoic Acid	8.56	122	33684	1.41 ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	111285	1.83 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	77602	1.77 ug/mL	94
26) 1,2,4-Trichlorobenzene	8.86	180	87264	1.87 ug/mL	88
27) Naphthalene	8.97	128	260382	1.89 ug/mL	99
28) 4-Chloroaniline	9.08	127	52995	2.20 ug/mL	99
29) Hexachlorobutadiene	9.20	225	50458	1.82 ug/mL	96
30) 4-Chloro-3-methylphenol	9.86	107	89230	1.79 ug/mL	98
31) 2-Methylnaphthalene	10.07	142	185491	1.84 ug/mL	97
34) Hexachlorocyclopentadiene	10.34	237	14689	1.19 ug/mL#	77
35) 2,4,6-Trichlorophenol	10.53	196	58153	1.71 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	59288	1.75 ug/mL	99
37) 2-Chloronaphthalene	10.84	162	171426	1.84 ug/mL	99
38) 2-Nitroaniline	11.02	65	55097	1.80 ug/mL	92
39) 3-Nitroaniline	11.68	138	11590	1.43 ug/mL#	70
40) 1-Methylnaphthalene	10.23	142	169616	1.84 ug/mL	99
41) Dimethylphthalate	11.35	163	191473	1.78 ug/mL	98
42) Acenaphthylene	11.49	152	227444	1.79 ug/mL	100
43) 2,6-Dinitrotoluene	11.42	165	37854	1.62 ug/mL	96
44) Acenaphthene	11.78	153	150215	1.84 ug/mL	96
45) 2,4-Dinitrophenol	11.87	184	13480	1.40 ug/mL#	76
46) 4-Nitrophenol	11.98	109	19341	1.46 ug/mL	91
47) Dibenzofuran	12.07	168	243893	1.83 ug/mL	100
48) 2,4-Dinitrotoluene	12.07	165	47005	1.62 ug/mL#	92
49) Fluorene	12.61	166	176537	1.87 ug/mL	93
50) Diethylphthalate	12.49	149	172906	1.81 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	95598	1.90 ug/mL	89
52) 4-Nitroaniline	12.66	138	16535	1.49 ug/mL	98
56) 4,6-Dinitro-2-methylphenol	12.71	198	19251	1.34 ug/mL	89
57) Diphenylamine	12.83	169	105755	2.23 ug/mL	95
58) 4-bromophenyl phenyl ether	13.42	248	52790	2.05 ug/mL	85
59) Hexachlorobenzene	13.50	284	46374	1.83 ug/mL	99
60) Pentachlorophenol	13.82	266	24584	1.51 ug/mL	92
61) Phenanthrene	14.14	178	224722	1.88 ug/mL	97
62) Carbazole	14.50	167	111646	2.71 ug/mL	99
63) Anthracene	14.22	178	205571	1.83 ug/mL	98
64) Azobenzene	12.89	77	198718	1.94 ug/mL	99
65) Di-n-Butylphthalate	15.14	149	278077	1.90 ug/mL	99
66) Fluoranthene	16.05	202	220202	1.90 ug/mL	98
67) alpha-BHC	13.43	183	36102	1.83 ug/mL	95
68) beta-BHC	13.77	181	27151	1.86 ug/mL	94
69) gamma-BHC	13.91	183	27144	1.72 ug/mL	86
70) delta-BHC	14.27	183	24996	1.79 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

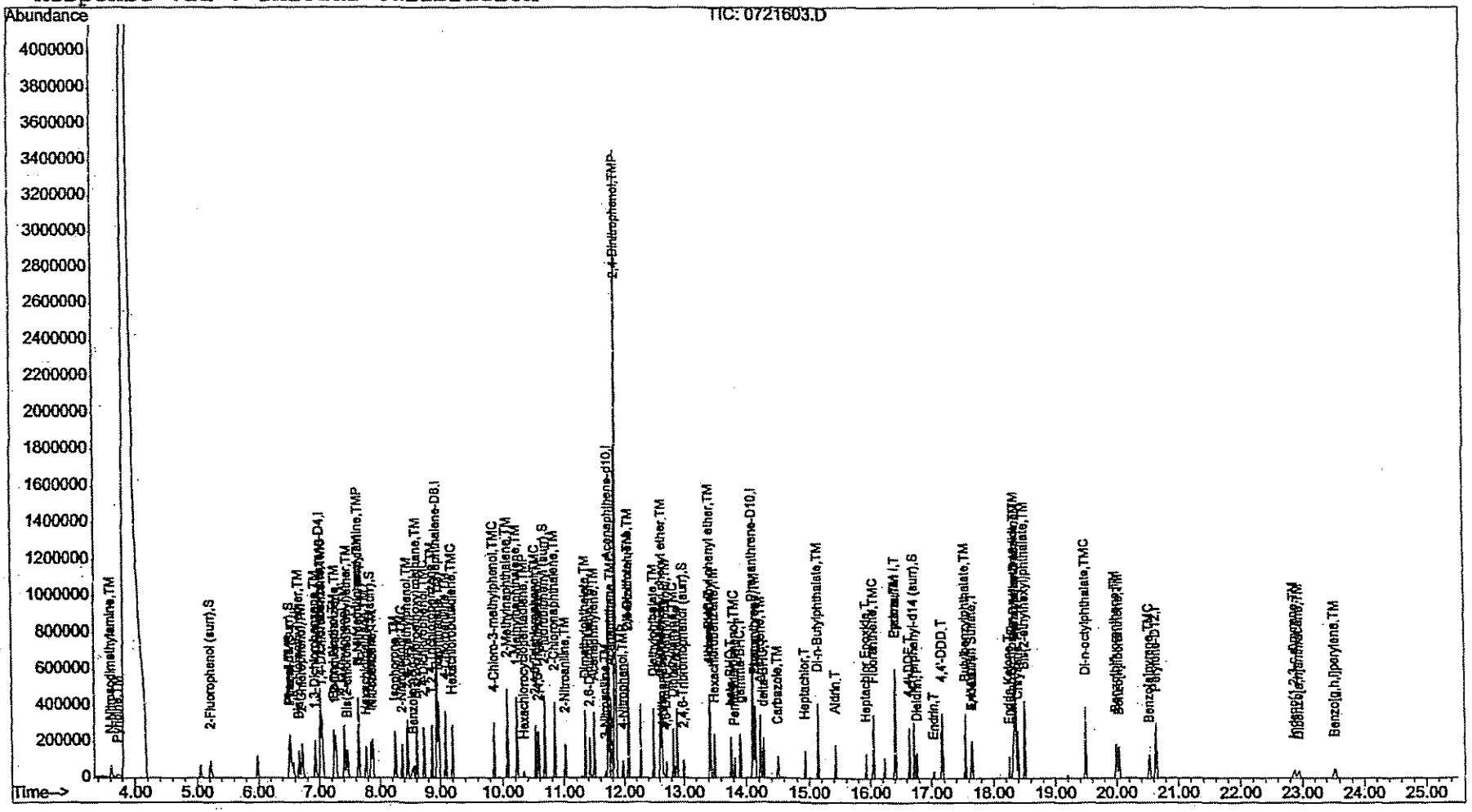
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	32349	1.78 ug/mL	98
72)	Aldrin	15.42	66	36921	1.91 ug/mL	95
73)	Heptachlor Epoxide	15.93	353	12141	2.05 ug/mL	93
74)	Endosulfan I	16.42	195	9346	2.05 ug/mL#	73
75)	4,4'-DDE	16.64	246	49144	1.76 ug/mL	92
76)	Dieldrin	16.76	79	47157	2.02 ug/mL	93
77)	Endrin	17.04	263	6194	1.54 ug/mL#	72
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.17	235	91992	1.87 ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	11062	1.69 ug/mL#	89
81)	4,4'-DDT	17.65	235	66412	1.61 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	8277	1.69 ug/mL#	79
84)	Methoxychlor	18.31	227	145590	1.65 ug/mL	90
86)	Pyrene	16.41	202	221497	1.94 ug/mL	99
87)	Butylbenzylphthalate	17.54	149	105786	1.87 ug/mL	100
88)	Benzo[a]anthracene	18.34	228	187389	1.83 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	30959	2.04 ug/mL	91
90)	Chrysene	18.39	228	156964	1.89 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	148303	1.96 ug/mL	96
94)	Di-n-octylphthalate	19.49	149	242403	1.87 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	142160	1.91 ug/mL	96
96)	Benzo[k]fluoranthene	20.04	252	135906	1.86 ug/mL	99
97)	Benzo[a]pyrene	20.53	252	111774	1.89 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	63568	1.93 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.94	278	54003	1.76 ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	67752	1.96 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

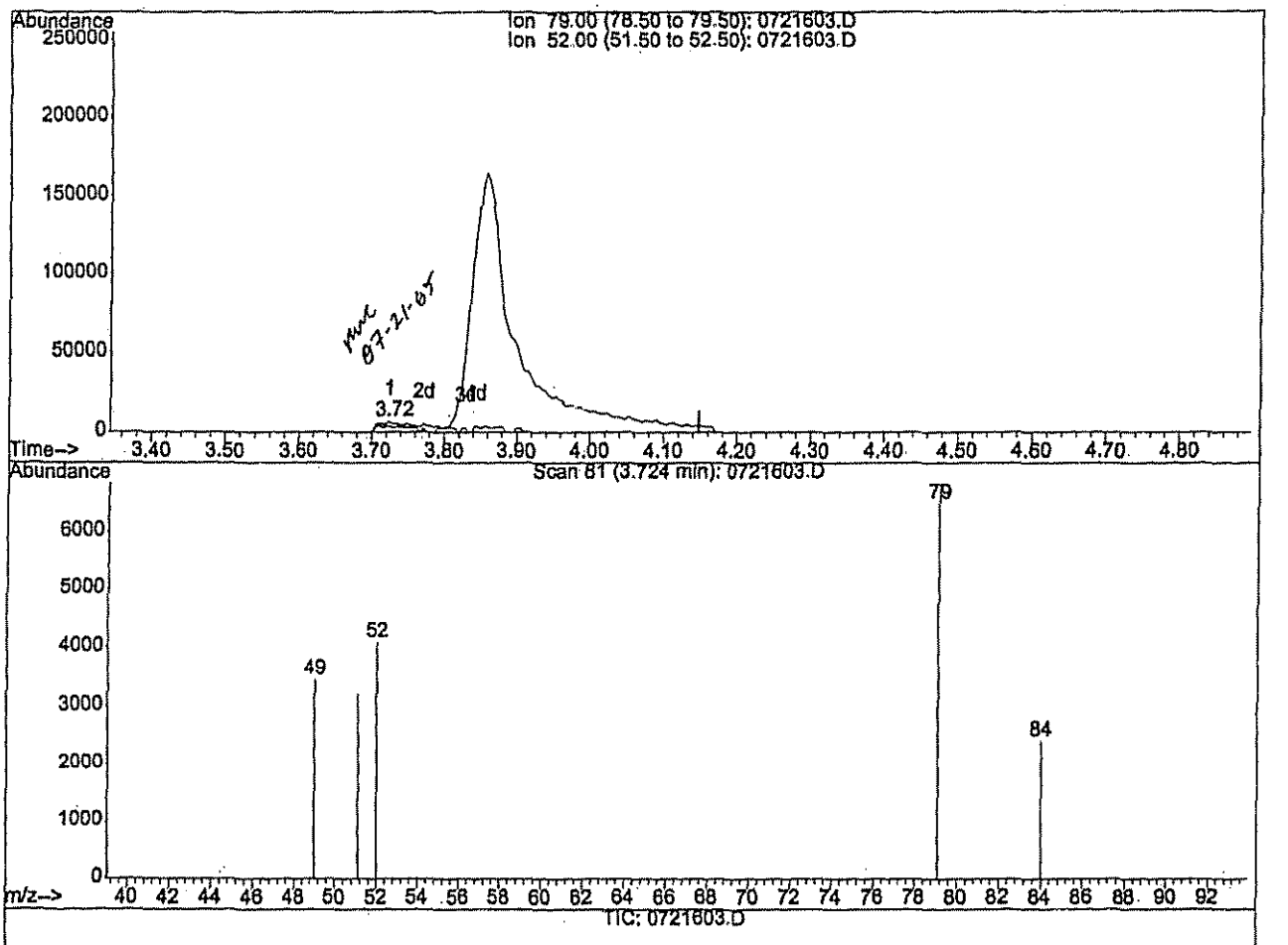


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.72min 1.54ug/mL m

response 39414

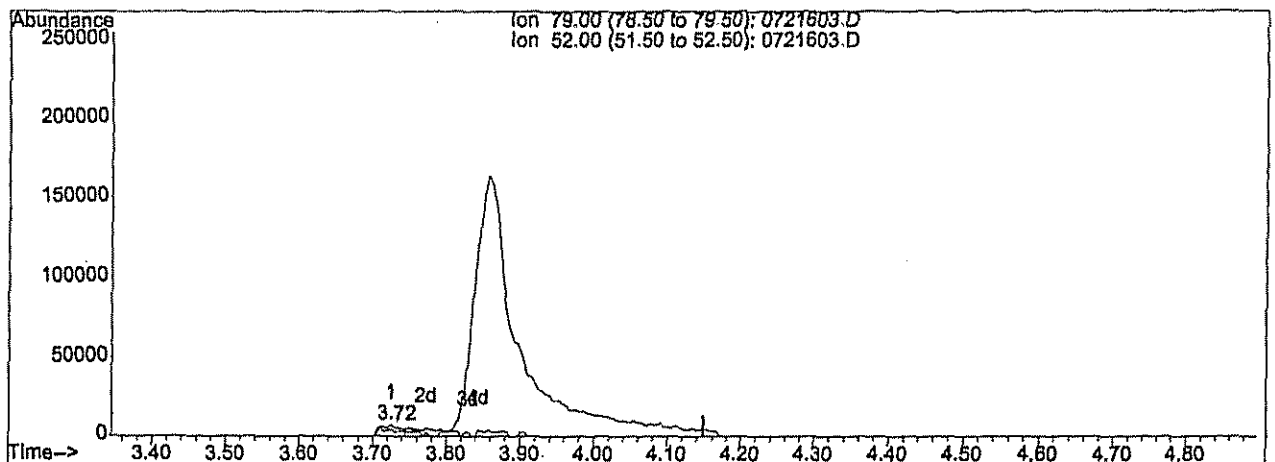
Ion	Exp%	Act%
79.00	100	100
52.00	23.00	10.35#
0.00	0.00	0.00
0.00	0.00	0.00

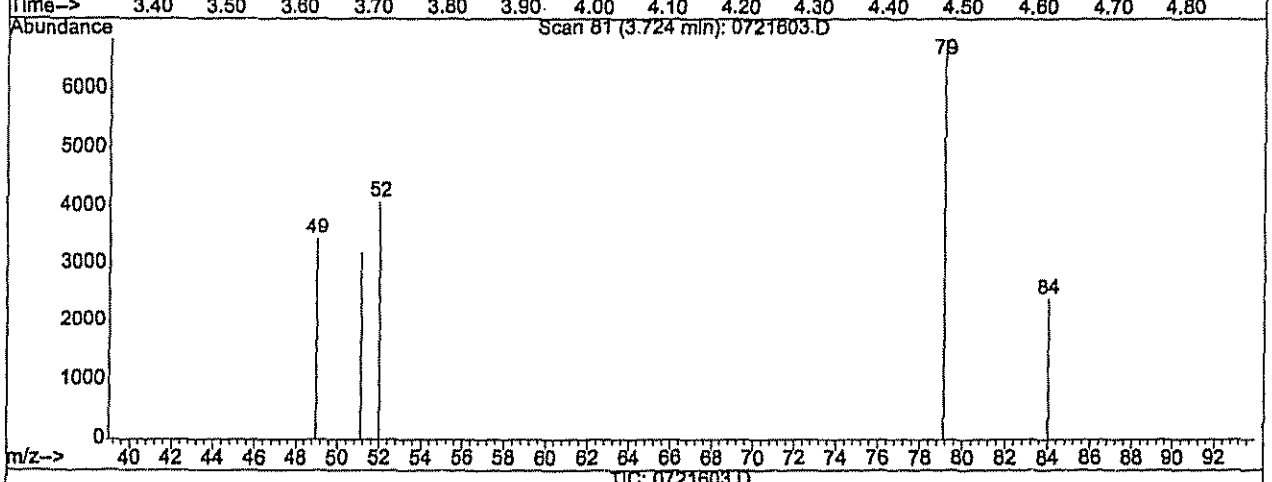
0721603.D 8270.M Thu Jul 21 11:16:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Vial: 3
Acq On : 21 Jul 2005 9:52 am
Operator: MRC
Sample : SVCAL2
Inst : MSD6
Misc :
Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:15 2005
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.72min 0.53ug/mL

response 13566

Ion	Exp%	Act%
79.00	100	100
52.00	23.00	30.06#
0.00	0.00	0.00
0.00	0.00	0.00

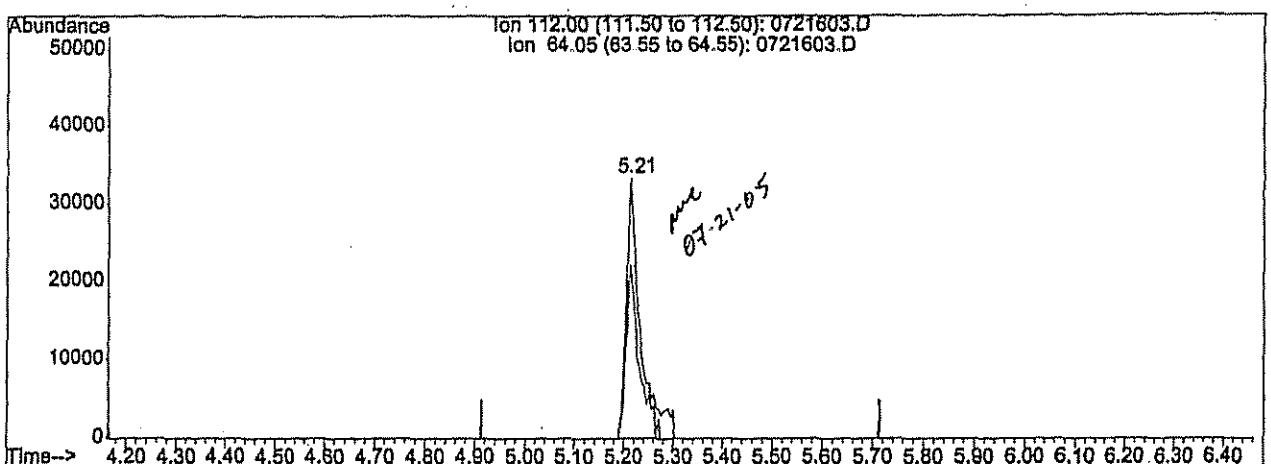
0721603.D 8270.M Thu Jul 21 11:15:59 2005 ENV

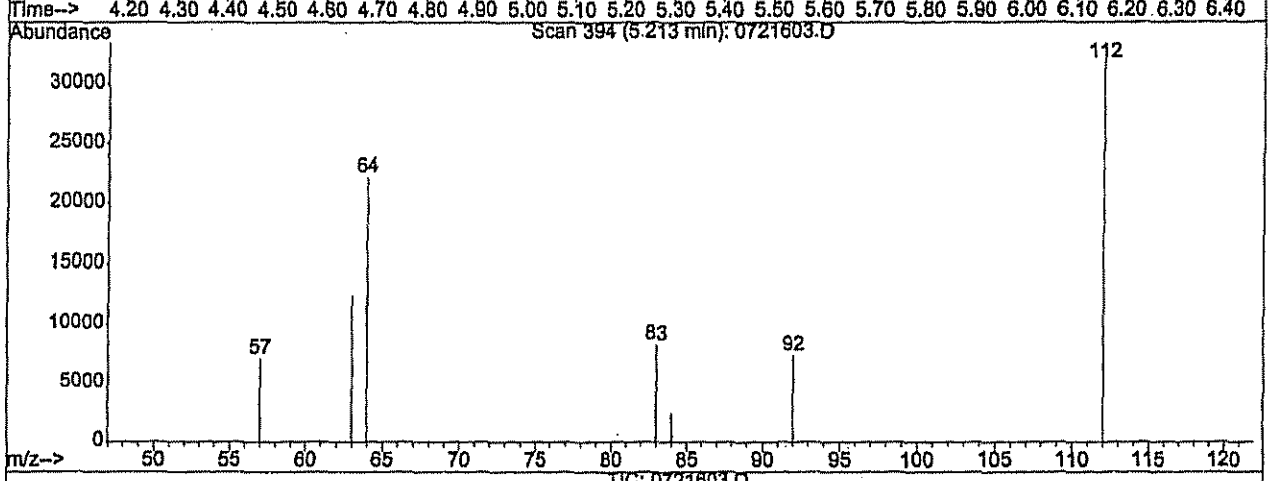
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

5.21min 2.03ug/mL m

response 68061

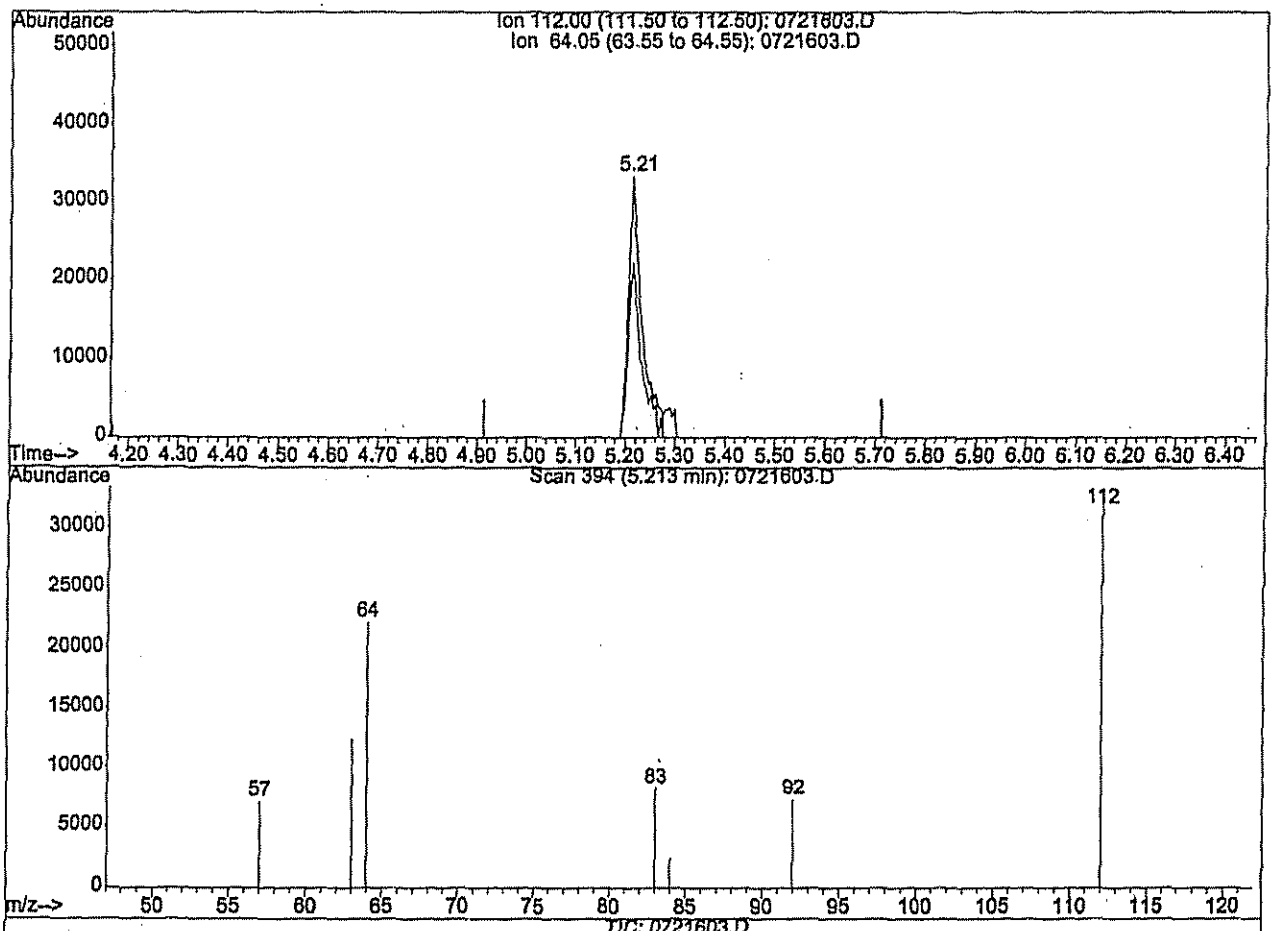
Ion	Exp%	Act%
112.00	100	100
64.05	66.10	61.34
0.00	0.00	0.00
0.00	0.00	0.00

0721603.D 8270.M Thu Jul 21 11:16:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

5.21min 1.89ug/mL

response 63160

Ion	Exp%	Act%
112.00	100	100
64.05	66.10	66.10
0.00	0.00	0.00
0.00	0.00	0.00

0721603.D 8270.M Thu Jul 21 11:16:18 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	149568	4.00	ug/mL	0.00
18) Naphthalene-D8	8.94	136	605817	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	352040	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	487476	4.00	ug/mL	0.00
85) Chrysene-D12	18.35	240	338564	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	242659	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	151709m	4.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	41.40%	
17) Phenol-d6 (surr)	6.51	99	235734	3.78	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	37.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	85170	3.85	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	38.50%	
53) 2-Fluorobiphenyl (surr)	10.68	172	401970	3.73	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	37.30%	
54) 2,4,6-Tribromophenol (surr	13.00	330	39788	3.93	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	39.30%	
92) 4-Terphenyl-d14 (surr)	16.71	244	333103	3.90	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	39.00%	
Target Compounds						Qvalue
2) Pyridine	3.63	79	142950m	5.81	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	98884	4.24	ug/mL	91
4) Phenol	6.53	94	268858	3.83	ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	201978	3.77	ug/mL	97
6) 2-Chlorophenol	6.71	128	203616	3.81	ug/mL	95
7) Benzyl Alcohol	7.24	108	139753	3.81	ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	200228	3.90	ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	207813	4.01	ug/mL	88
10) 1,2-Dichlorobenzene	7.26	146	187276	3.85	ug/mL	98
11) 2-Methylphenol	7.41	107	167776	3.80	ug/mL	88
12) 3-, 4-Methylphenol	7.64	107	241489	3.77	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	246810	3.90	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	124959	3.74	ug/mL	98
15) Hexachloroethane	7.76	117	76732	3.71	ug/mL	91
19) Nitrobenzene	7.88	77	228391	3.88	ug/mL	99
20) Isophorone	8.25	82	341422	3.81	ug/mL	100
21) 2-Nitrophenol	8.36	139	119028	3.84	ug/mL#	89
22) 2,4-Dimethylphenol	8.45	122	157713	3.83	ug/mL	95
23) Benzoic Acid	8.59	122	83267	3.88	ug/mL	97
24) Bis(2-chloroethoxy)methane	8.61	93	233548	3.81	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.73	162	164209	3.78	ug/mL	96
26)	1,2,4-Trichlorobenzene	8.86	180	171359	3.61	ug/mL	89
27)	Naphthalene	8.98	128	533282	3.79	ug/mL	98
28)	4-Chloroaniline	9.09	127	86134	3.24	ug/mL	97
29)	Hexachlorobutadiene	9.20	225	111215	3.99	ug/mL	94
30)	4-Chloro-3-methylphenol	9.86	107	190444	3.83	ug/mL	98
31)	2-Methylnaphthalene	10.07	142	390071	3.83	ug/mL	93
34)	Hexachlorocyclopentadiene	10.34	237	34414	3.32	ug/mL#	78
35)	2,4,6-Trichlorophenol	10.54	196	125960	3.80	ug/mL	98
36)	2,4,5-Trichlorophenol	10.58	196	128139	3.84	ug/mL	99
37)	2-Chloronaphthalene	10.84	162	345578	3.67	ug/mL	97
38)	2-Nitroaniline	11.02	65	117335	3.84	ug/mL	93
39)	3-Nitroaniline	11.69	138	22014	3.01	ug/mL	91
40)	1-Methylnaphthalene	10.23	142	345399	3.72	ug/mL	99
41)	Dimethylphthalate	11.35	163	397989	3.73	ug/mL	99
42)	Acenaphthylene	11.50	152	464053	3.67	ug/mL	98
43)	2,6-Dinitrotoluene	11.43	165	83510	3.76	ug/mL	89
44)	Acenaphthene	11.78	153	313621	3.81	ug/mL	98
45)	2,4-Dinitrophenol	11.87	184	36341	4.23	ug/mL	96
46)	4-Nitrophenol	11.98	109	47829	3.97	ug/mL	95
47)	Dibenzofuran	12.06	168	502932	3.75	ug/mL	100
48)	2,4-Dinitrotoluene	12.07	165	109453	3.96	ug/mL#	87
49)	Fluorene	12.61	166	377777	3.94	ug/mL	97
50)	Diethylphthalate	12.50	149	372024	3.90	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.64	204	196857	3.82	ug/mL	93
52)	4-Nitroaniline	12.67	138	43690	4.29	ug/mL#	82
56)	4,6-Dinitro-2-methylphenol	12.71	198	55106	4.13	ug/mL	89
57)	Diphenylamine	12.83	169	212564	3.81	ug/mL	96
58)	4-bromophenyl phenyl ether	13.42	248	110867	3.82	ug/mL	91
59)	Hexachlorobenzene	13.50	284	102109	3.78	ug/mL	99
60)	Pentachlorophenol	13.82	266	65939	4.16	ug/mL	98
61)	Phenanthrene	14.15	178	490440	3.80	ug/mL	97
62)	Carbazole	14.50	167	172246	3.19	ug/mL	97
63)	Anthracene	14.23	178	443698	3.71	ug/mL	98
64)	Azobenzene	12.89	77	426922	3.80	ug/mL	99
65)	Di-n-Butylphthalate	15.14	149	593125	3.73	ug/mL	99
66)	Fluoranthene	16.05	202	487292	3.87	ug/mL	98
67)	alpha-BHC	13.43	183	77548	3.69	ug/mL	97
68)	beta-BHC	13.77	181	62529	3.99	ug/mL	97
69)	gamma-BHC	13.91	183	63306	3.88	ug/mL	93
70)	delta-BHC	14.27	183	55625	3.78	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D
Acq On : 21 Jul 2005 10:25 am
Sample : SVCAL4
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005

Vial: 4
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

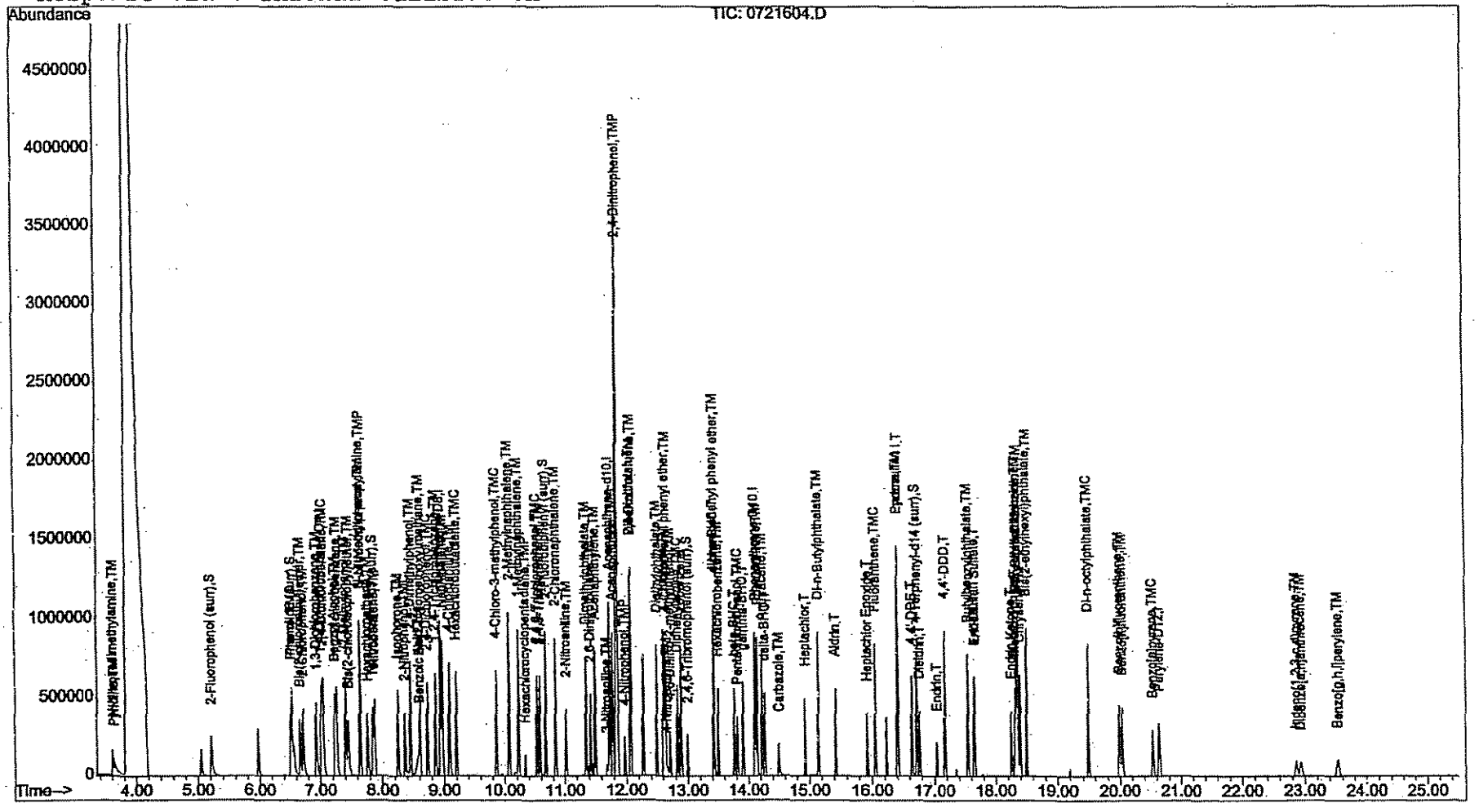
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	71282	3.73 ug/mL	96
72)	Aldrin	15.42	66	79432	3.78 ug/mL	94
73)	Heptachlor Epoxide	15.93	353	26939	4.04 ug/mL	95
74)	Endosulfan I	16.41	195	19790	3.85 ug/mL#	100
75)	4,4'-DDE	16.64	246	114389	3.92 ug/mL	95
76)	Dieldrin	16.76	79	96440	3.70 ug/mL#	93
77)	Endrin	17.04	263	15643	3.95 ug/mL#	82
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	205200	3.87 ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	25541	3.80 ug/mL#	71
81)	4,4'-DDT	17.66	235	152183	3.67 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	21309	4.24 ug/mL#	77
84)	Methoxychlor	18.31	227	329395	3.67 ug/mL	100
86)	Pyrene	16.41	202	488255	3.90 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	230755	3.78 ug/mL	95
88)	Benzo[a]anthracene	18.34	228	424939	3.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	64256	3.76 ug/mL	91
90)	Chrysene	18.39	228	352122	3.90 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	18.50	149	316857	3.79 ug/mL	96
94)	Di-n-octylphthalate	19.49	149	529972	3.82 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	325588	4.04 ug/mL	98
96)	Benzo[k]fluoranthene	20.03	252	310163	3.97 ug/mL	99
97)	Benzo[a]pyrene	20.53	252	244837	3.85 ug/mL#	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	129720	3.63 ug/mL	100
99)	Dibenzo[a,h]anthracene	22.94	278	114360	3.58 ug/mL#	91
100)	Benzo[g,h,i]perylene	23.53	276	136815	3.62 ug/mL#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

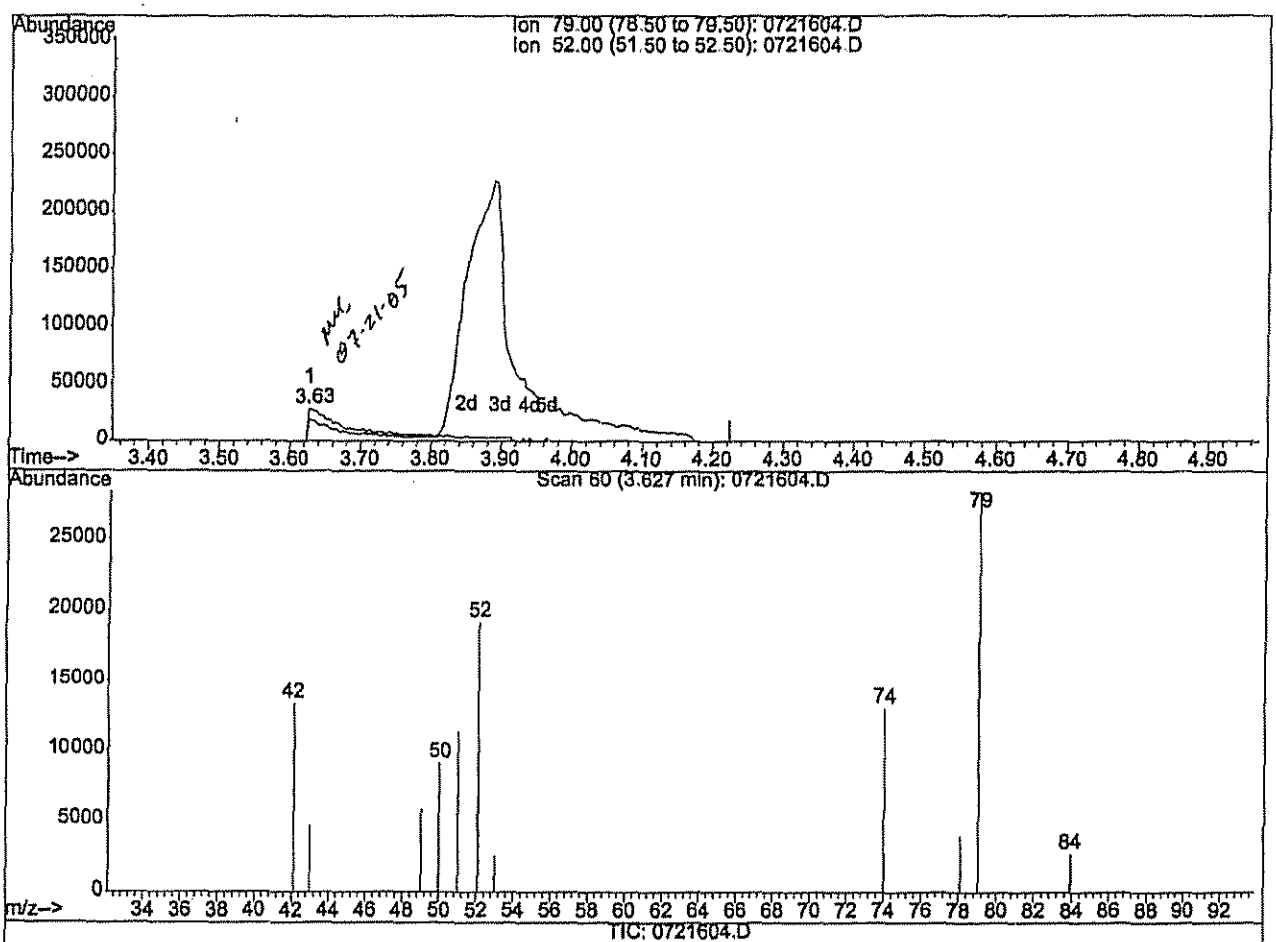
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 5.81ug/mL m

response 142950

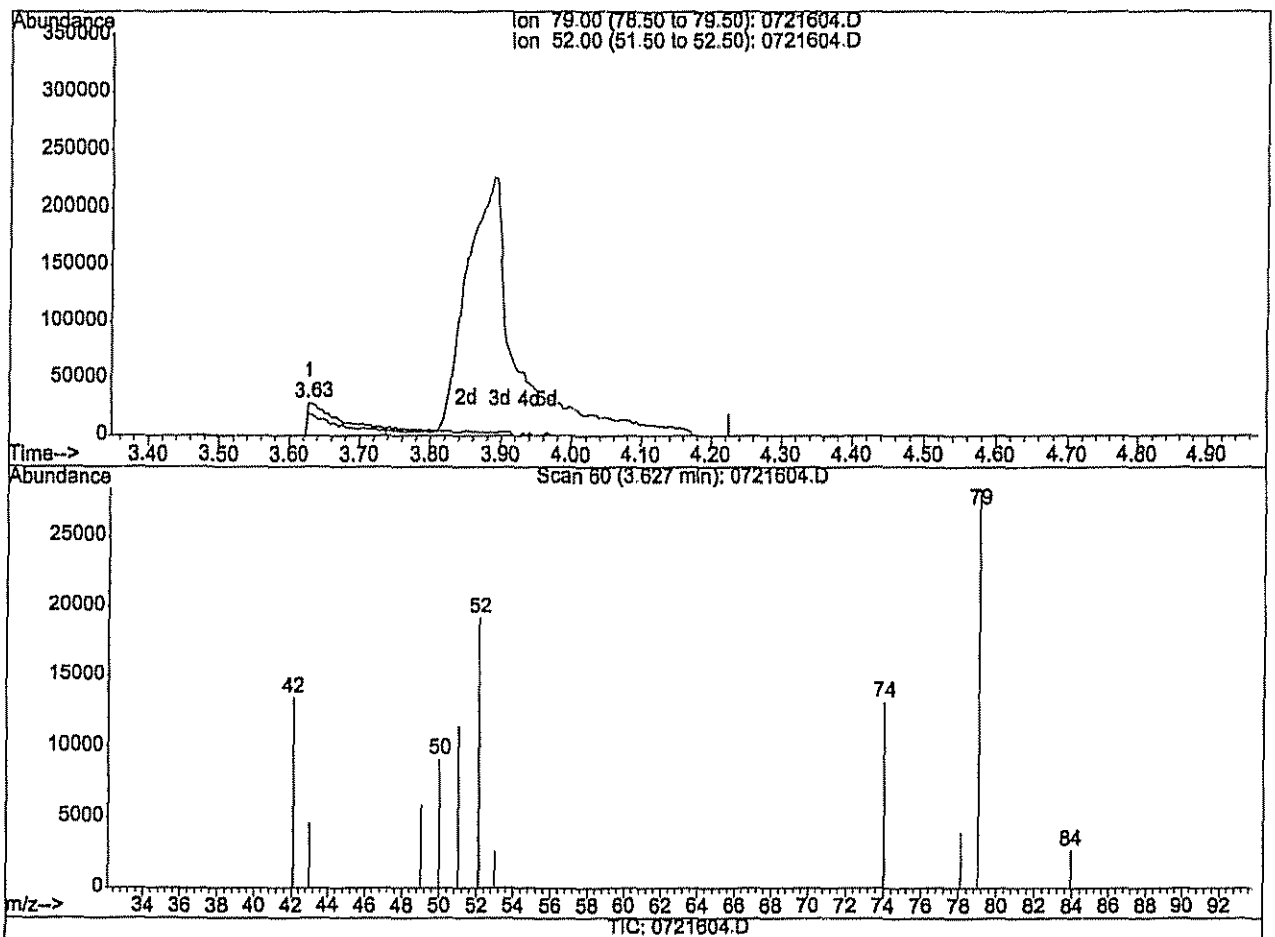
Ion	Exp%	Act%
79.00	100	100
52.00	10.30	35.70#
0.00	0.00	0.00
0.00	0.00	0.00

0721604.D 8270.M Thu Jul 21 11:18:02 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:17 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 3.97ug/mL

response 97610

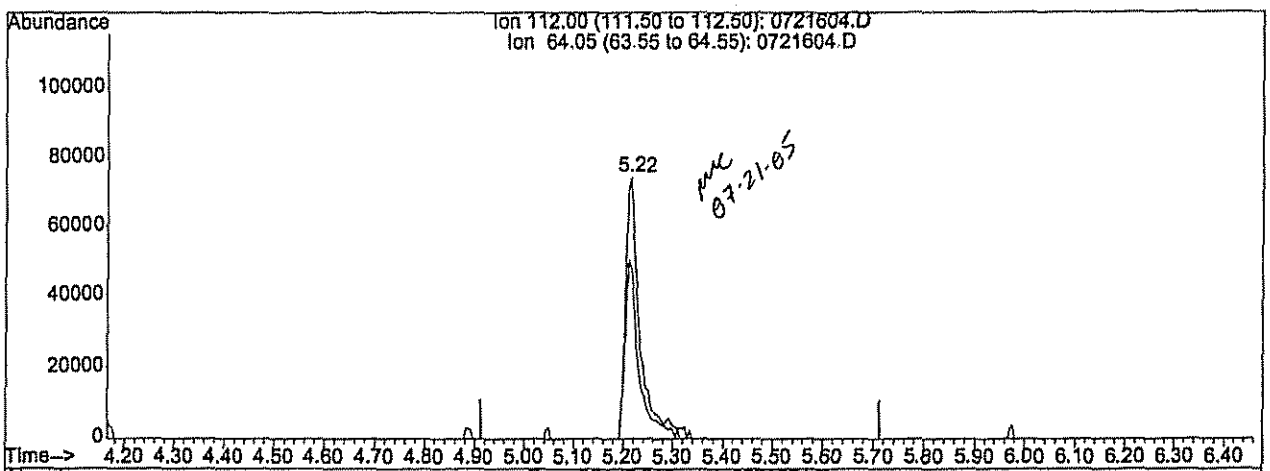
Ion	Exp%	Act%
79.00	100	100
52.00	10.30	52.29#
0.00	0.00	0.00
0.00	0.00	0.00

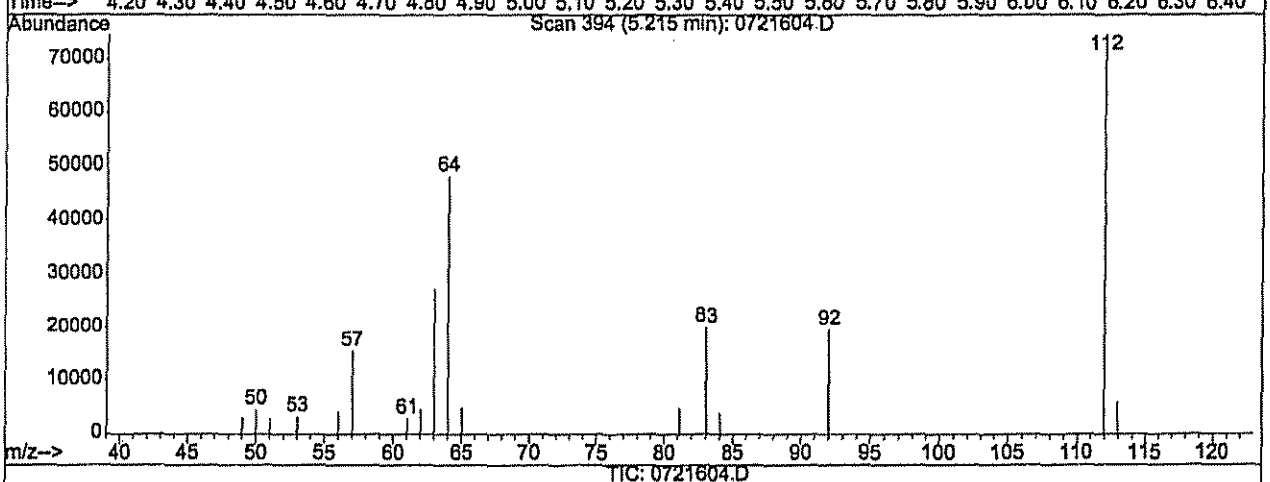
0721604.D 8270.M Thu Jul 21 11:17:57 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

5.22min 4.14ug/mL m

response 151709

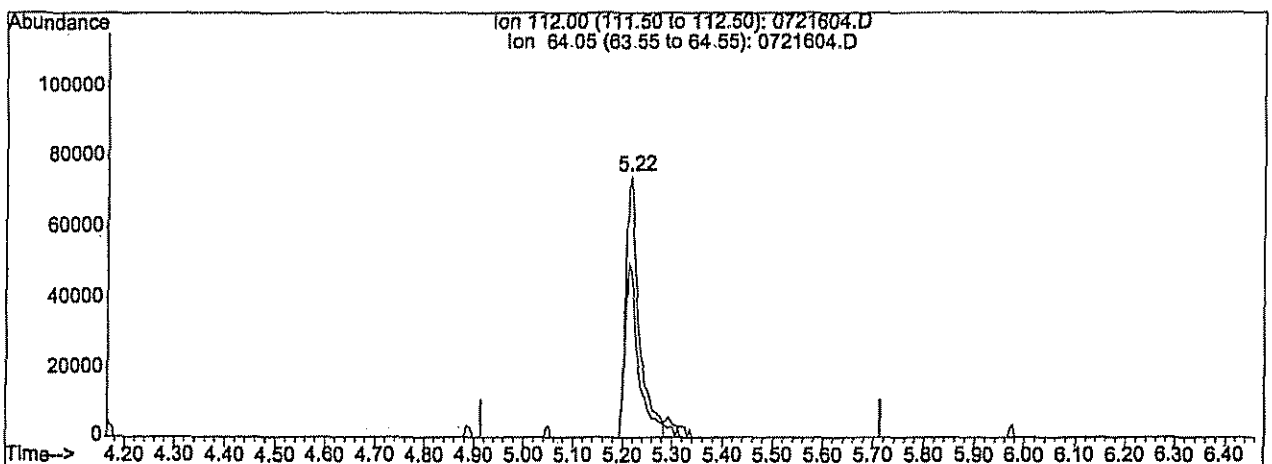
Ion	Exp%	Act%
112.00	100	100
64.05	61.30	64 80
0.00	0.00	0.00
0.00	0.00	0.00

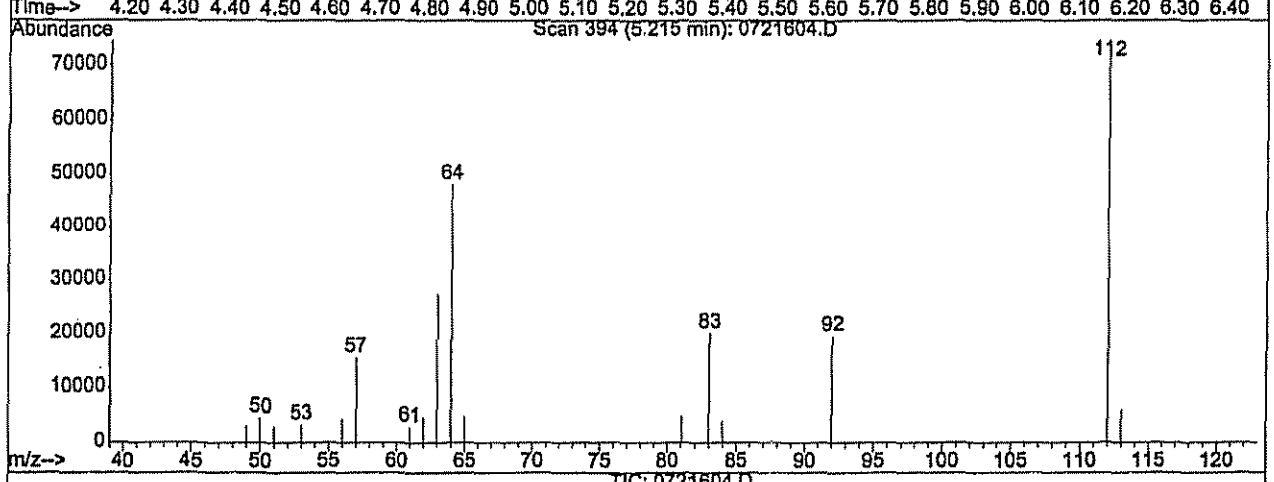
0721604.D 8270.M Thu Jul 21 11:18:16 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





TIC: 0721604.D

(16) 2-Fluorophenol (surr) (S)

5.22min 3.85ug/mL

response 141281

Ion	Exp%	Act%
112.00	100	100
64.05	61.30	69.59
0.00	0.00	0.00
0.00	0.00	0.00

0721604.D 8270.M Thu Jul 21 11:18:13 2005 ENV

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mme 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	124846	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	502739	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	290095	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	392326	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	280892	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	194777	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	189995m	6.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.40%	
17) Phenol-d6 (surr)	6.51	99	305401	5.98	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	59.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	112179	6.19	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.90%	
53) 2-Fluorobiphenyl (surr)	10.68	172	509360	5.87	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.70%	
54) 2,4,6-Tribromophenol (surr	13.00	330	49974	6.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	60.30%	
92) 4-Terphenyl-d14 (surr)	16.72	244	413385	5.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.80%	
Target Compounds						Qvalue
2) Pyridine	3.62	79	177790m	7.52	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	125692	6.33	ug/mL	98
4) Phenol	6.53	94	345993	5.99	ug/mL	97
5) Bis(2-chloroethyl)ether	6.66	93	258837	5.90	ug/mL	99
6) 2-Chlorophenol	6.71	128	263371	6.00	ug/mL	98
7) Benzyl Alcohol	7.24	108	182933	6.07	ug/mL	98
8) 1,3-Dichlorobenzene	6.93	146	252243	5.94	ug/mL	99
9) 1,4-Dichlorobenzene	7.04	146	259311	5.99	ug/mL	92
10) 1,2-Dichlorobenzene	7.27	146	236586	5.90	ug/mL	98
11) 2-Methylphenol	7.41	107	214676	5.93	ug/mL	95
12) 3-, 4-Methylphenol	7.64	107	306875	5.85	ug/mL#	92
13) Bis(2-chloroisopropyl)ethe	7.46	45	309611	5.91	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.65	70	164676	6.04	ug/mL	99
15) Hexachloroethane	7.77	117	99221	5.89	ug/mL	98
19) Nitrobenzene	7.88	77	296698	6.13	ug/mL	98
20) Isophorone	8.25	82	443933	6.07	ug/mL	99
21) 2-Nitrophenol	8.36	139	142362	5.61	ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	198582	5.90	ug/mL	91
23) Benzoic Acid	8.60	122	111600	6.33	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	295998	5.92	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	218215	6.16 ug/mL	99
26) 1,2,4-Trichlorobenzene	8.86	180	222126	5.83 ug/mL	99
27) Naphthalene	8.98	128	685904	5.98 ug/mL	99
28) 4-Chloroaniline	9.09	127	139615	6.76 ug/mL	98
29) Hexachlorobutadiene	9.20	225	138870	6.01 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	246990	6.07 ug/mL	94
31) 2-Methylnaphthalene	10.07	142	494923	5.94 ug/mL	95
34) Hexachlorocyclopentadiene	10.34	237	48241	5.99 ug/mL#	97
35) 2,4,6-Trichlorophenol	10.53	196	162929	6.07 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	163140	6.01 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	440110	5.84 ug/mL	98
38) 2-Nitroaniline	11.02	65	152417	6.14 ug/mL	97
39) 3-Nitroaniline	11.69	138	42519	7.69 ug/mL#	96
40) 1-Methylnaphthalene	10.23	142	443615	5.94 ug/mL	100
41) Dimethylphthalate	11.36	163	516480	6.01 ug/mL	99
42) Acenaphthylene	11.50	152	587536	5.80 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	109927	6.13 ug/mL	96
44) Acenaphthene	11.78	153	396903	5.94 ug/mL	99
45) 2,4-Dinitrophenol	11.86	184	49319	6.83 ug/mL	97
46) 4-Nitrophenol	11.98	109	63863	6.45 ug/mL	99
47) Dibenzofuran	12.06	168	634166	5.86 ug/mL	96
48) 2,4-Dinitrotoluene	12.07	165	131928	5.82 ug/mL	91
49) Fluorene	12.61	166	479093	6.09 ug/mL	95
50) Diethylphthalate	12.50	149	472917	6.06 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	12.64	204	250961	6.00 ug/mL	98
52) 4-Nitroaniline	12.66	138	57260	6.66 ug/mL#	88
56) 4,6-Dinitro-2-methylphenol	12.72	198	71873	6.62 ug/mL	94
57) Diphenylamine	12.83	169	270204	6.12 ug/mL	98
58) 4-bromophenyl phenyl ether	13.42	248	134181	5.83 ug/mL	94
59) Hexachlorobenzene	13.50	284	132630	6.22 ug/mL	97
60) Pentachlorophenol	13.82	266	84998	6.57 ug/mL	100
61) Phenanthrene	14.15	178	610988	5.98 ug/mL	99
62) Carbazole	14.50	167	252339	6.23 ug/mL	99
63) Anthracene	14.22	178	571388	6.08 ug/mL	99
64) Azobenzene	12.89	77	535724	6.02 ug/mL	99
65) Di-n-Butylphthalate	15.15	149	737463	5.90 ug/mL	99
66) Fluoranthene	16.05	202	623106	6.22 ug/mL	100
67) alpha-BHC	0.00	183	0	N.D. d	
68) beta-BHC	0.00	181	0	N.D. d	
69) gamma-BHC	0.00	183	0	N.D. d	
70) delta-BHC	0.00	183	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

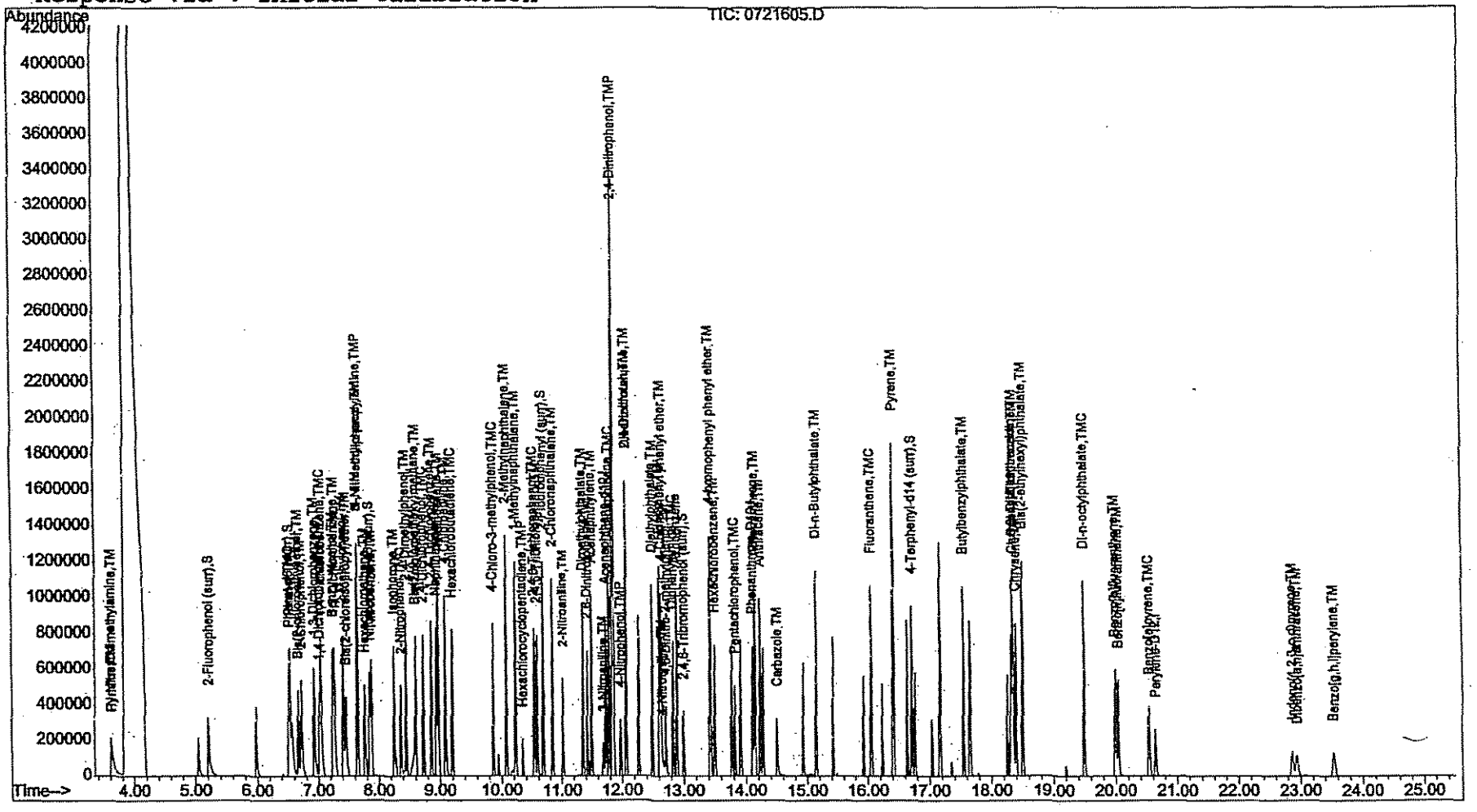
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	0.00	100	0	N.D. d	
72)	Aldrin	0.00	66	0	N.D. d	
73)	Heptachlor Epoxide	0.00	353	0	N.D. d	
74)	Endosulfan I	0.00	195	0	N.D. d	
75)	4,4'-DDE	0.00	246	0	N.D. d	
76)	Dieldrin	0.00	79	0	N.D. d	
77)	Endrin	0.00	263	0	N.D. d	
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	0.00	235	0	N.D. d	
80)	Endosulfan Sulfate	0.00	272	0	N.D. d	
81)	4,4'-DDT	0.00	235	0	N.D. d	
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	0.00	317	0	N.D. d	
84)	Methoxychlor	0.00	227	0	N.D. d	
86)	Pyrene	16.41	202	604955	5.87 ug/mL	98
87)	Butylbenzylphthalate	17.54	149	304383	6.12 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	550131	6.12 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	88635	6.38 ug/mL	96
90)	Chrysene	18.39	228	455547	6.14 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	409561	6.01 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	692866	6.32 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	409988	6.32 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	396294	6.34 ug/mL	100
97)	Benzo[a]pyrene	20.53	252	315573	6.26 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	168167	6.04 ug/mL	98
99)	Dibenzo[a,h]anthracene	22.94	278	154126	6.23 ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	185979	6.33 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

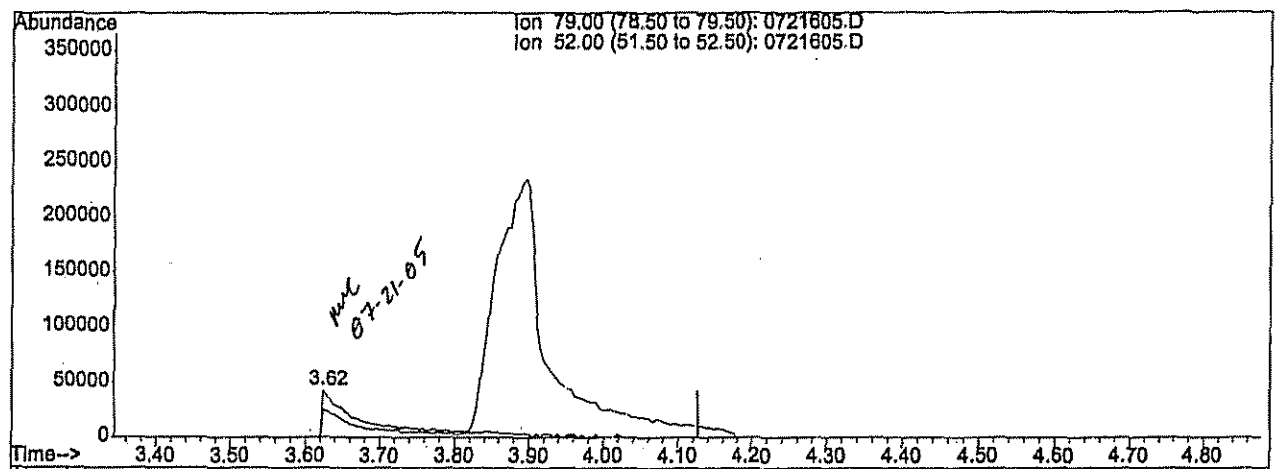


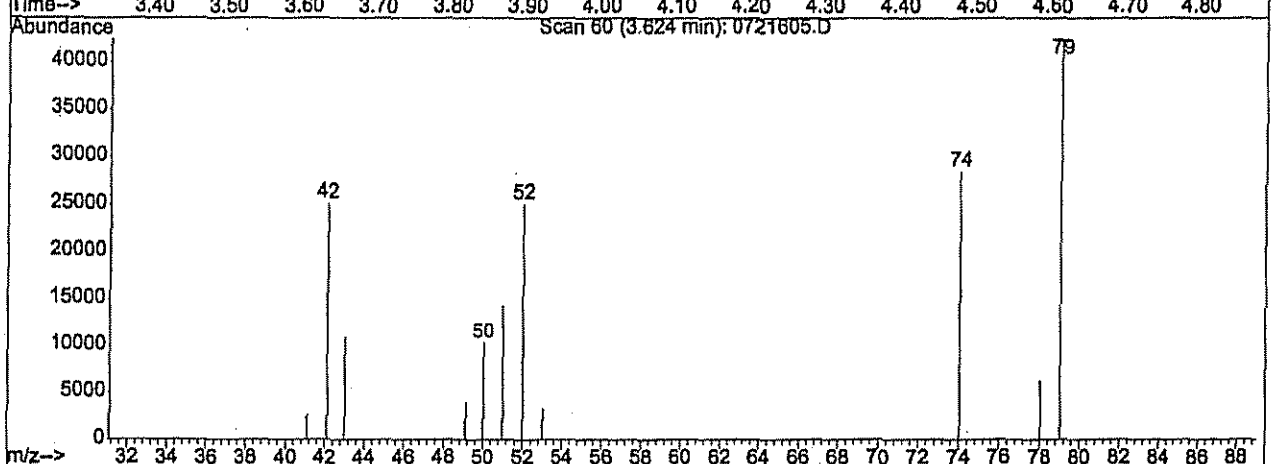
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.62min 7.52ug/mL m

response 177790

Ion	Exp%	Act%
79.00	100	100
52.00	35.70	35.36
0.00	0.00	0.00
0.00	0.00	0.00

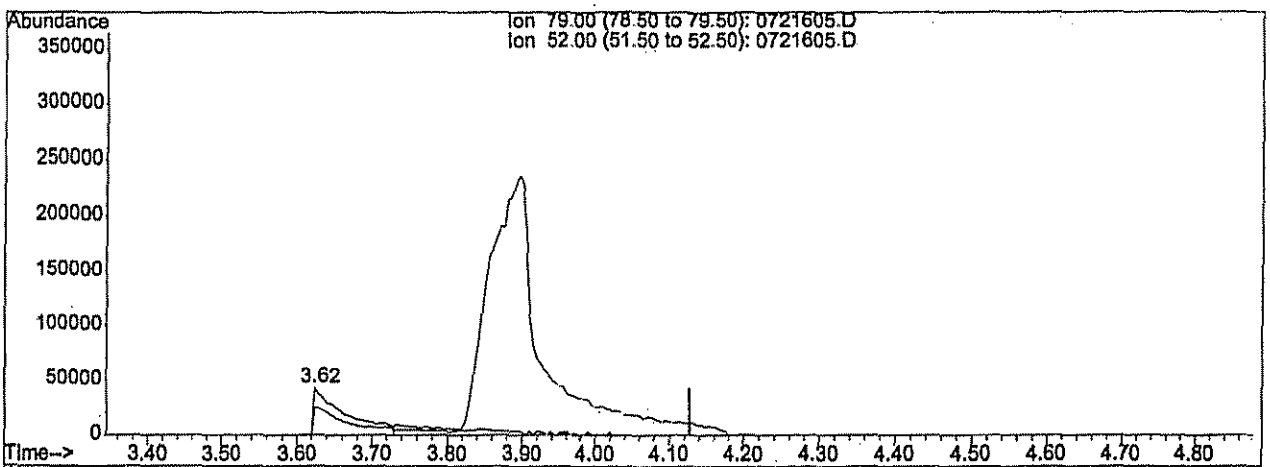
0721605.D 8270DXN.M Thu Jul 21 13:45:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:26 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.62min 5.21ug/mL

response 123134

Ion	Exp%	Act%
79.00	100	100
52.00	35.70	51.06#
0.00	0.00	0.00
0.00	0.00	0.00

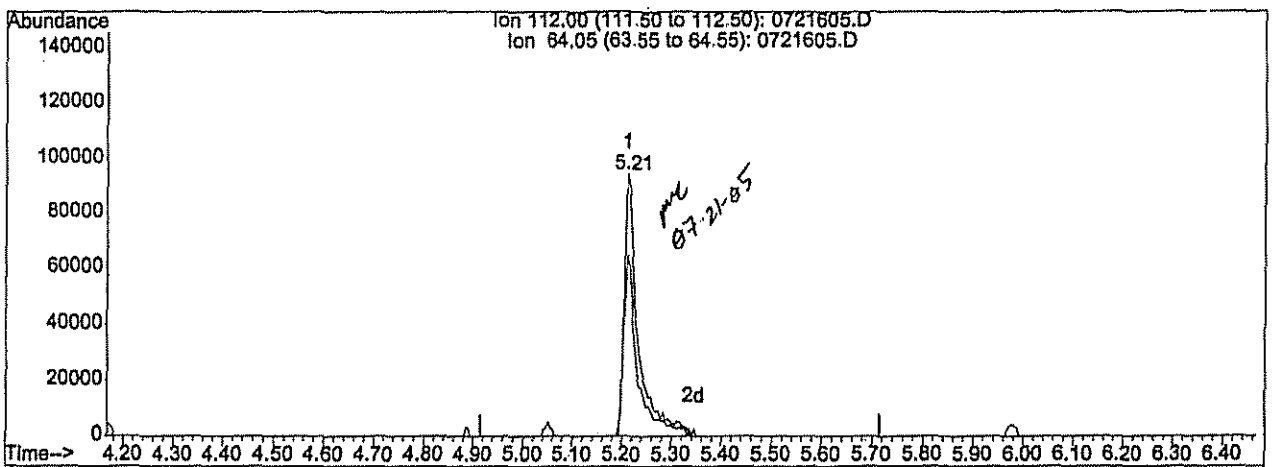
0721605.D 8270DXN.M Thu Jul 21 13:45:48 2005 ENV

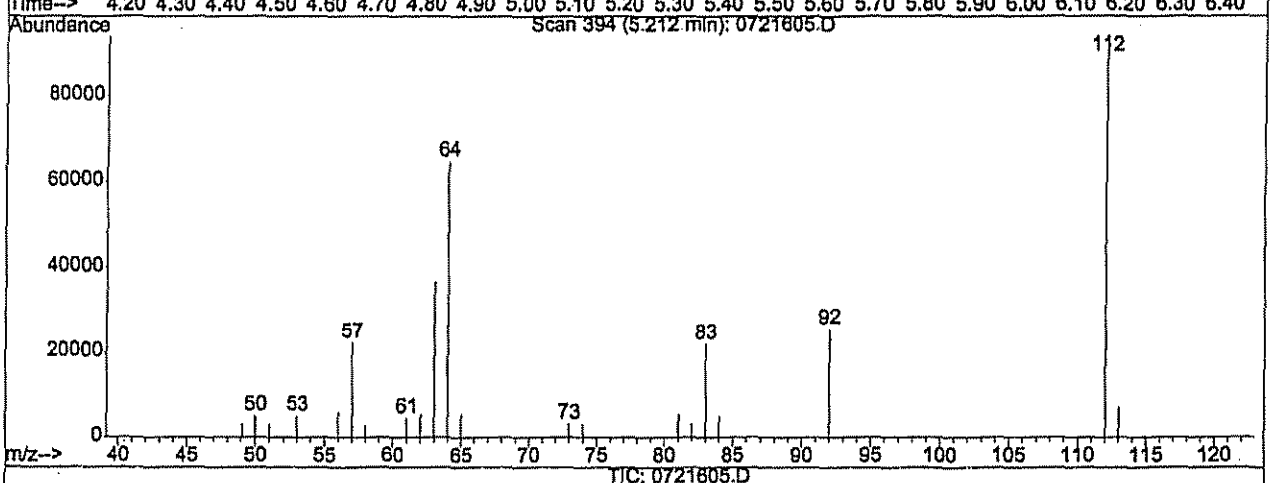
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





TIC: 0721605.D

(16) 2-Fluorophenol (surr) (S)

5.21min 6.14ug/mL m

response 189995

Ion	Exp%	Act%
112.00	100	100
64.05	64.80	66.94
0.00	0.00	0.00
0.00	0.00	0.00

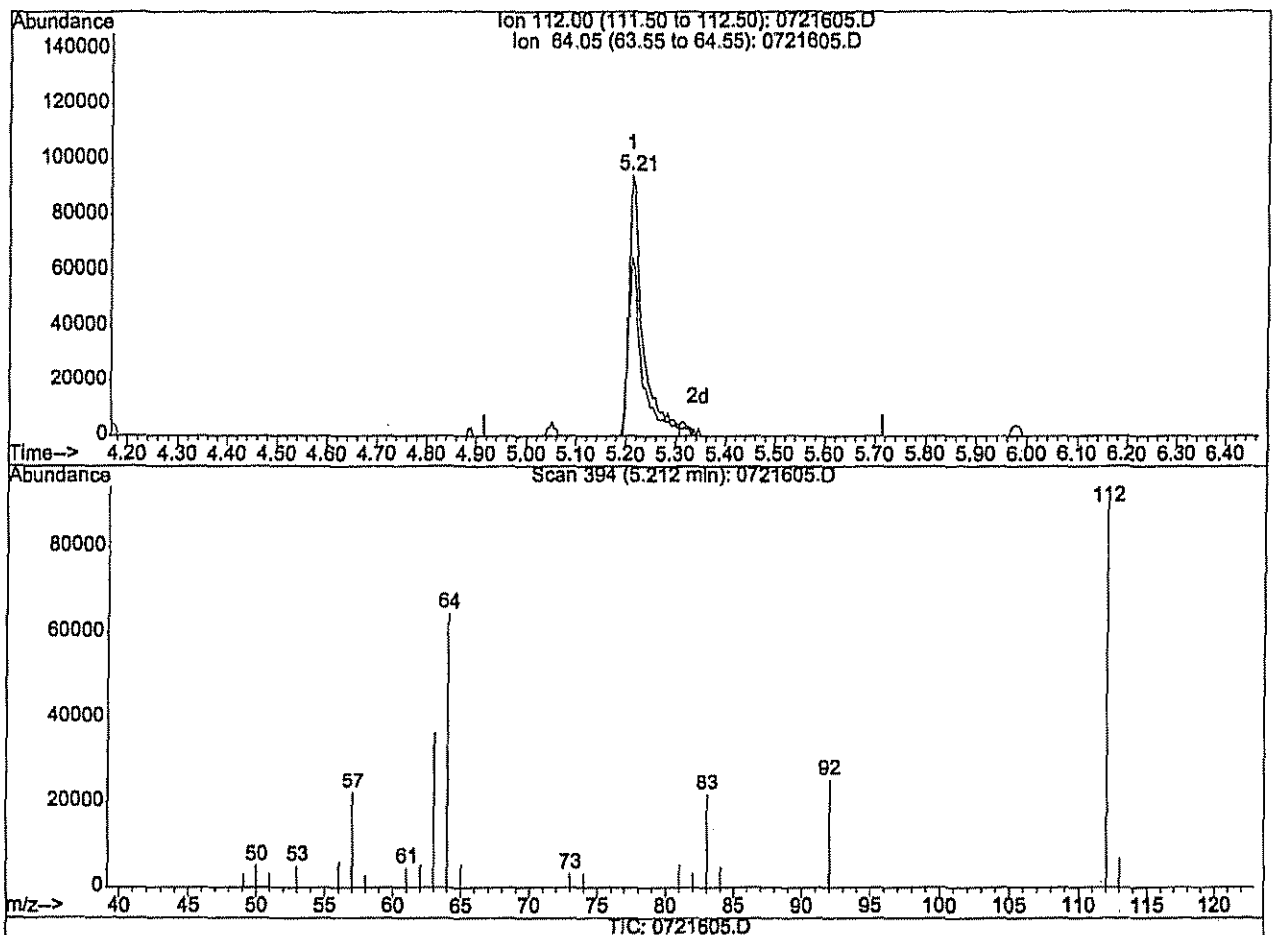
0721605.D 8270DXN.M Thu Jul 21 13:46:12 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

5.21min 5.93ug/mL

response 183600

Ion	Exp%	Act%
112.00	100	100
64.05	64.80	69.27
0.00	0.00	0.00
0.00	0.00	0.00

0721605.D 8270DXN.M Thu Jul 21 13:46:06 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	143801	4.00	ug/mL	0.00
18) Naphthalene-D8	8.94	136	599919	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	350122	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	488418	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	348554	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	232118	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	292358	8.15	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	81.50%	
17) Phenol-d6 (surr)	6.51	99	448972	7.64	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	76.40%	
32) Nitrobenzene-d5 (surr)	7.85	128	158723	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	72.80%	
53) 2-Fluorobiphenyl (surr)	10.68	172	740289	7.11	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	71.10%	
54) 2,4,6-Tribromophenol (surr	13.00	330	79563	7.94	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	79.40%	
92) 4-Terphenyl-d14 (surr)	16.72	244	631869	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	72.80%	
Target Compounds						Qvalue
2) Pyridine	3.61	79	304674m	10.53	ug/mL	
3) N-Nitrosodimethylamine	3.62	74	180604	7.79	ug/mL	97
4) Phenol	6.53	94	503358	7.57	ug/mL	99
5) Bis(2-chloroethyl)ether	6.66	93	392706	7.81	ug/mL	99
6) 2-Chlorophenol	6.72	128	375797	7.43	ug/mL	96
7) Benzyl Alcohol	7.24	108	262205	7.54	ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	370632	7.60	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	378770	7.60	ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	341907	7.43	ug/mL	97
11) 2-Methylphenol	7.41	107	307908	7.40	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	448374	7.47	ug/mL	94
13) Bis(2-chloroisopropyl)ethe	7.46	45	446803	7.43	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	228475	7.26	ug/mL	98
15) Hexachloroethane	7.77	117	144438	7.48	ug/mL	98
19) Nitrobenzene	7.88	77	428063	7.37	ug/mL	99
20) Isophorone	8.25	82	648135	7.40	ug/mL	98
21) 2-Nitrophenol	8.37	139	204095	6.85	ug/mL	98
22) 2,4-Dimethylphenol	8.46	122	306214	7.65	ug/mL	96
23) Benzoic Acid	8.62	122	175235	8.22	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	428396	7.20	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	312152	7.34 ug/mL	96
26) 1,2,4-Trichlorobenzene	8.87	180	325568	7.21 ug/mL	97
27) Naphthalene	8.98	128	990598	7.24 ug/mL	99
28) 4-Chloroaniline	9.12	127	132394	5.21 ug/mL	93
29) Hexachlorobutadiene	9.20	225	197363	7.16 ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	360365	7.40 ug/mL	97
31) 2-Methylnaphthalene	10.07	142	721241	7.27 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	63694	6.55 ug/mL#	93
35) 2,4,6-Trichlorophenol	10.54	196	238935	7.36 ug/mL	94
36) 2,4,5-Trichlorophenol	10.58	196	238292	7.27 ug/mL	95
37) 2-Chloronaphthalene	10.84	162	650421	7.20 ug/mL	100
38) 2-Nitroaniline	11.03	65	218402	7.25 ug/mL	94
39) 3-Nitroaniline	11.70	138	28218	3.95 ug/mL	99
40) 1-Methylnaphthalene	10.23	142	656869	7.30 ug/mL	98
41) Dimethylphthalate	11.36	163	759702	7.32 ug/mL	99
42) Acenaphthylene	11.50	152	872841	7.20 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	165168	7.59 ug/mL	93
44) Acenaphthene	11.78	153	584734	7.27 ug/mL	99
45) 2,4-Dinitrophenol	11.87	184	78762	8.74 ug/mL	89
46) 4-Nitrophenol	11.98	109	92299	7.58 ug/mL	92
47) Dibenzofuran	12.07	168	938212	7.22 ug/mL	97
48) 2,4-Dinitrotoluene	12.07	165	202150	7.44 ug/mL	97
49) Fluorene	12.61	166	695995	7.30 ug/mL	91
50) Diethylphthalate	12.50	149	695004	7.36 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	373045	7.39 ug/mL	96
52) 4-Nitroaniline	12.68	138	80351	7.54 ug/mL	98
56) 4,6-Dinitro-2-methylphenol	12.72	198	115696	8.35 ug/mL	97
57) Diphenylamine	12.83	169	367491	6.65 ug/mL	99
58) 4-bromophenyl phenyl ether	13.42	248	202886	7.13 ug/mL	99
59) Hexachlorobenzene	13.50	284	197227	7.36 ug/mL	95
60) Pentachlorophenol	13.82	266	131464	7.97 ug/mL	94
61) Phenanthrene	14.15	178	932348	7.34 ug/mL	98
62) Carbazole	14.50	167	343115m	6.74 ug/mL	
63) Anthracene	14.23	178	859104	7.32 ug/mL	99
64) Azobenzene	12.89	77	800668	7.22 ug/mL	100
65) Di-n-Butylphthalate	15.14	149	1148076	7.41 ug/mL	99
66) Fluoranthene	16.06	202	936940	7.44 ug/mL	98
67) alpha-BHC	13.43	183	148063	7.22 ug/mL	98
68) beta-BHC	13.77	181	116751	7.44 ug/mL	100
69) gamma-BHC	13.91	183	123355	7.62 ug/mL	99
70) delta-BHC	14.27	183	111779	7.73 ug/mL	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	142679	7.62 ug/mL	99
72)	Aldrin	15.42	66	155360	7.51 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	53866	8.03 ug/mL	98
74)	Endosulfan I	16.42	195	41907	8.24 ug/mL#	83
75)	4,4'-DDE	16.64	246	223116	7.68 ug/mL	100
76)	Dieldrin	16.77	79	193459	7.59 ug/mL	99
77)	Endrin	17.04	263	31230	7.90 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	392718	7.48 ug/mL#	99
80)	Endosulfan Sulfate	17.65	272	51074	7.72 ug/mL	97
81)	4,4'-DDT	17.65	235	293663	7.27 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	43164	8.41 ug/mL	95
84)	Methoxychlor	18.32	227	678888	7.77 ug/mL	95
86)	Pyrene	16.41	202	909292	7.15 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	458518	7.40 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	839315	7.49 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	126916	7.25 ug/mL	98
90)	Chrysene	18.40	228	708173	7.64 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	609711	7.20 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	1032687	7.80 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	603528	7.70 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	584742	7.74 ug/mL	99
97)	Benzo[a]pyrene	20.54	252	456661	7.52 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	264203	7.95 ug/mL	96
99)	Dibenzo[a,h]anthracene	22.94	278	233004	7.83 ug/mL	99
100)	Benzo[g,h,i]perylene	23.53	276	283883	8.00 ug/mL	97

(#) = qualifier out of range (m) = manual integration

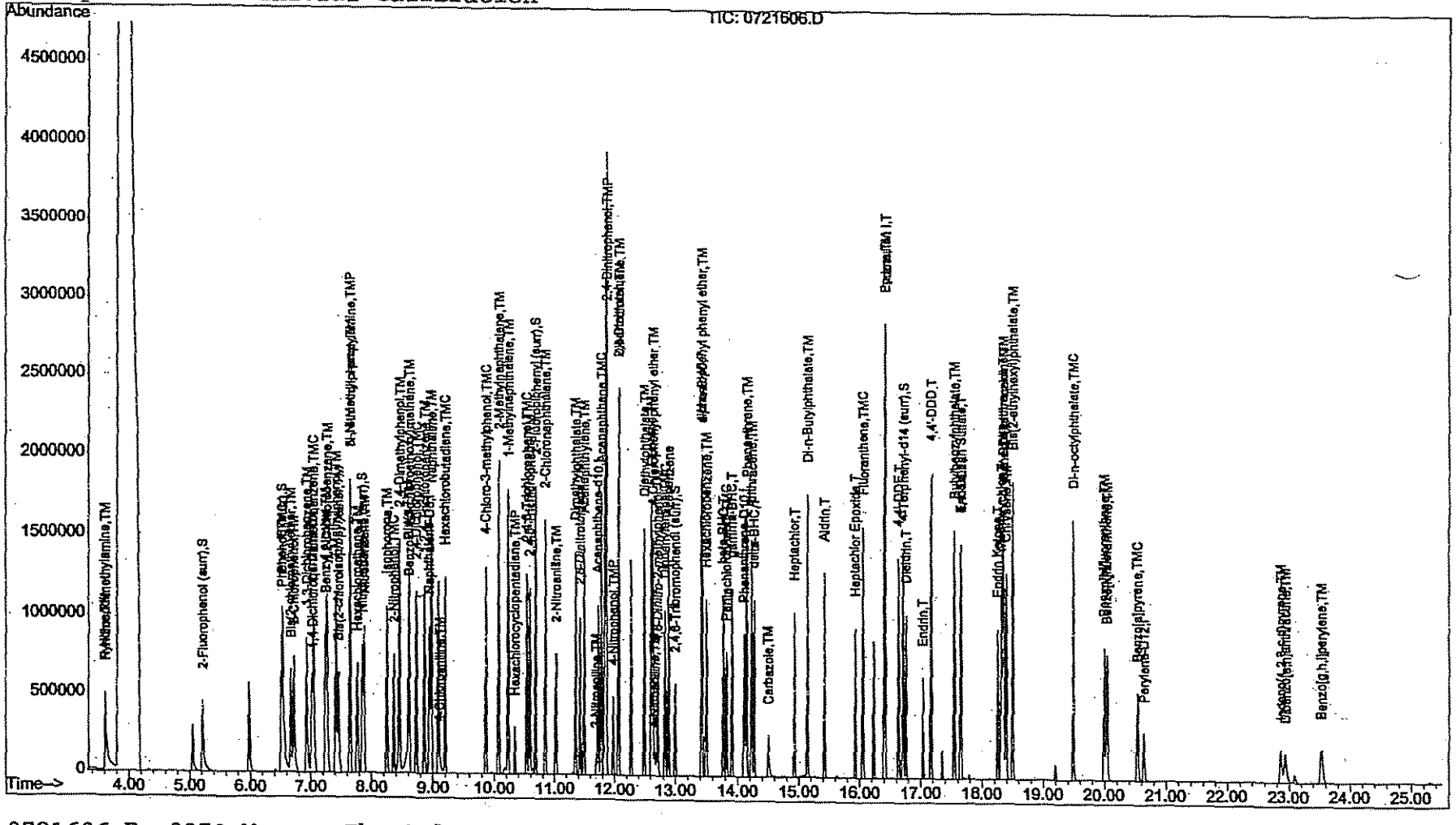
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D
Acq On : 21 Jul 2005 11:34 am
Sample : SVCAL8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005

Vial: 6
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

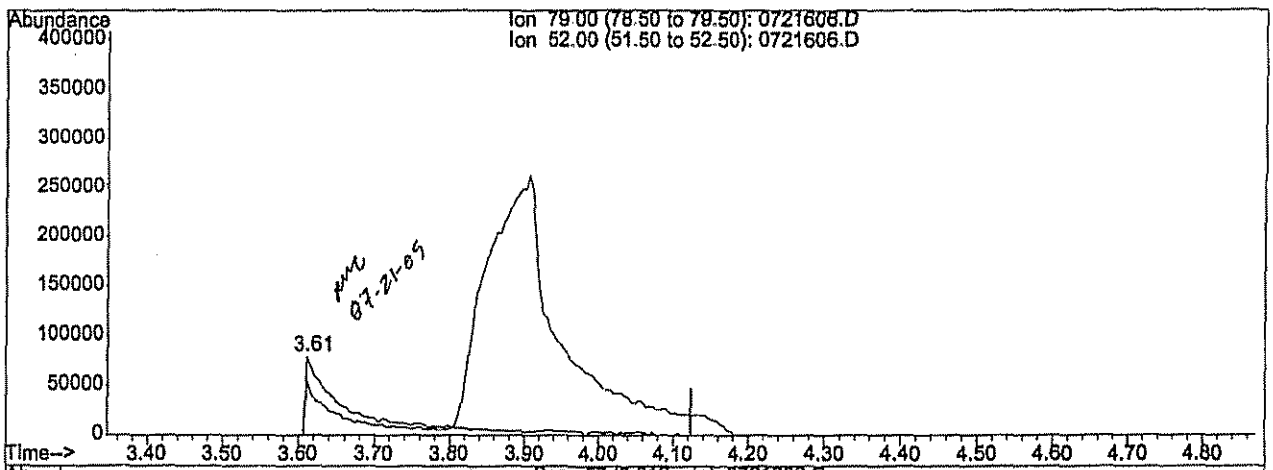
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.61min 10.53ug/mL m

response 304674

Ion	Exp%	Act%
79.00	100	100
52.00	35.40	41.35
0.00	0.00	0.00
0.00	0.00	0.00

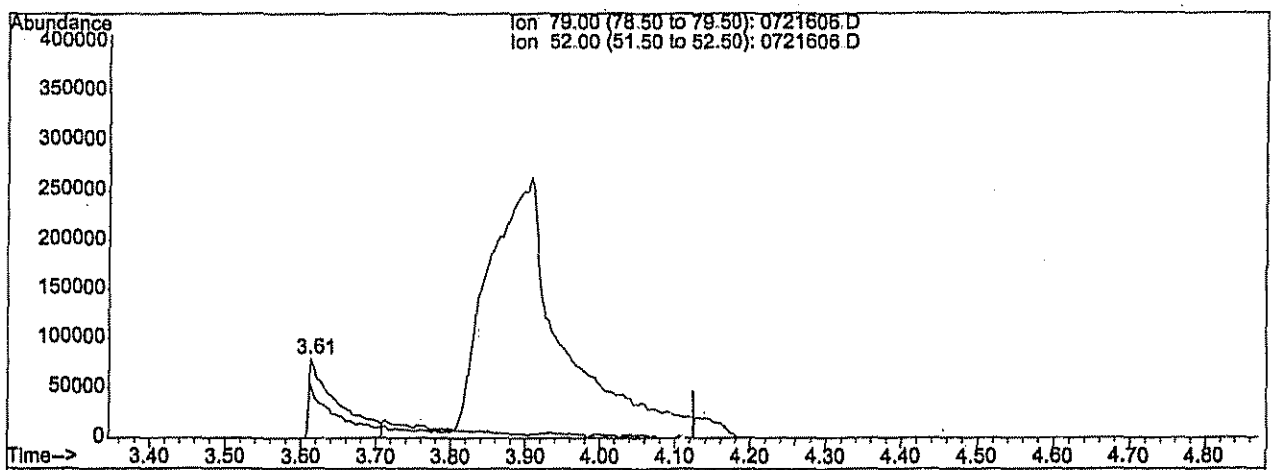
0721606.D 8270.M Thu Jul 21 13:54:58 2005 ENV

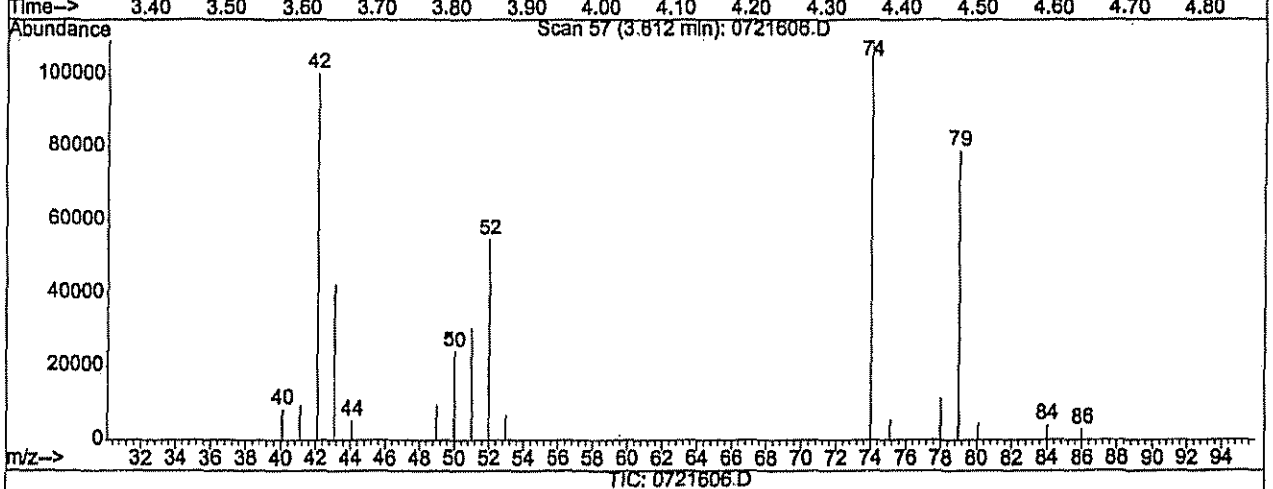
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D
Acq On : 21 Jul 2005 11:34 am
Sample : SVCAL8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005

Vial: 6
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration





TIC: 0721606.D

(2) Pyridine (TM)

3.61min 7.21ug/mL

response 208618

Ion	Exp%	Act%
79.00	100	100
52.00	35.40	60.38#
0.00	0.00	0.00
0.00	0.00	0.00

0721606.D 8270.M Thu Jul 21 13:54:53 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mwc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	153572	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	614169	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	357586	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	509832	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	367033	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	224296	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	478077	12.43	ug/mL	0.00
Spiked Amount 10.000			Recovery = 124.30%			
17) Phenol-d6 (surr)	6.52	99	728520	11.71	ug/mL	0.00
Spiked Amount 10.000			Recovery = 117.10%			
32) Nitrobenzene-d5 (surr)	7.86	128	262194	11.96	ug/mL	0.00
Spiked Amount 10.000			Recovery = 119.60%			
53) 2-Fluorobiphenyl (surr)	10.68	172	1197523	11.52	ug/mL	0.00
Spiked Amount 10.000			Recovery = 115.20%			
54) 2,4,6-Tribromophenol (surr	13.00	330	133787	13.09	ug/mL	0.00
Spiked Amount 10.000			Recovery = 130.90%			
92) 4-Terphenyl-d14 (surr)	16.72	244	1044598	11.64	ug/mL	0.00
Spiked Amount 10.000			Recovery = 116.40%			
Target Compounds						Qvalue
2) Pyridine	3.62	79	436672	13.29	ug/mL#	61
3) N-Nitrosodimethylamine	3.63	74	320483	13.01	ug/mL	99
4) Phenol	6.53	94	793741	11.30	ug/mL	98
5) Bis(2-chloroethyl)ether	6.67	93	693952	12.98	ug/mL	99
6) 2-Chlorophenol	6.72	128	613490	11.53	ug/mL	98
7) Benzyl Alcohol	7.25	108	438985	11.95	ug/mL	98
8) 1,3-Dichlorobenzene	6.94	146	603529	11.70	ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	610438	11.58	ug/mL	97
10) 1,2-Dichlorobenzene	7.27	146	548587	11.32	ug/mL	96
11) 2-Methylphenol	7.41	107	499457	11.41	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	728511	11.51	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	731747	11.56	ug/mL	100
14) N-Nitrosodi-n-propylamine	7.66	70	381380	11.57	ug/mL	98
15) Hexachloroethane	7.77	117	239095	11.75	ug/mL	99
19) Nitrobenzene	7.89	77	703650	12.03	ug/mL	99
20) Isophorone	8.26	82	1056290	11.96	ug/mL	99
21) 2-Nitrophenol	8.37	139	329035	11.10	ug/mL	95
22) 2,4-Dimethylphenol	8.46	122	485670	11.96	ug/mL	94
23) Benzoic Acid	8.67	122	315621	14.38	ug/mL	100
24) Bis(2-chloroethoxy)methane	8.61	93	689193	11.55	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	509972	11.91	ug/mL	98
26) 1,2,4-Trichlorobenzene	8.86	180	518081	11.44	ug/mL	99
27) Naphthalene	8.98	128	1595886	11.62	ug/mL	99
28) 4-Chloroaniline	9.14	127	186192	7.69	ug/mL#	91
29) Hexachlorobutadiene	9.20	225	331095	11.98	ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	600422	12.23	ug/mL	99
31) 2-Methylnaphthalene	10.08	142	1161199	11.65	ug/mL	100
34) Hexachlorocyclopentadiene	10.34	237	126248	13.20	ug/mL#	95
35) 2,4,6-Trichlorophenol	10.54	196	388839	11.91	ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	400052	12.17	ug/mL	97
37) 2-Chloronaphthalene	10.84	162	1070325	11.83	ug/mL	99
38) 2-Nitroaniline	11.03	65	358446	11.87	ug/mL	99
39) 3-Nitroaniline	11.71	138	39431	6.01	ug/mL	97
40) 1-Methylnaphthalene	10.23	142	1052406	11.66	ug/mL	100
41) Dimethylphthalate	11.36	163	1230643	11.81	ug/mL	99
42) Acenaphthylene	11.50	152	1385991	11.42	ug/mL	99
43) 2,6-Dinitrotoluene	11.44	165	272280	12.38	ug/mL	97
44) Acenaphthene	11.78	153	940641	11.67	ug/mL	98
45) 2,4-Dinitrophenol	11.88	184	141363	15.08	ug/mL	96
46) 4-Nitrophenol	11.99	109	167614	13.62	ug/mL	95
47) Dibenzofuran	12.07	168	1523252	11.71	ug/mL	99
48) 2,4-Dinitrotoluene	12.08	165	326571	11.94	ug/mL	84
49) Fluorene	12.62	166	1145291	11.97	ug/mL	96
50) Diethylphthalate	12.50	149	1144893	12.07	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	592288	11.67	ug/mL	93
52) 4-Nitroaniline	12.68	138	124658m	11.59	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.72	198	207057	14.19	ug/mL	96
57) Diphenylamine	12.84	169	518263	9.30	ug/mL	99
58) 4-bromophenyl phenyl ether	13.43	248	327692	11.28	ug/mL	95
59) Hexachlorobenzene	13.50	284	317035	11.52	ug/mL	98
60) Pentachlorophenol	13.82	266	226140	13.15	ug/mL	98
61) Phenanthrene	14.15	178	1500563	11.50	ug/mL	99
62) Carbazole	14.50	167	361342	7.31	ug/mL	99
63) Anthracene	14.23	178	1398170	11.61	ug/mL	99
64) Azobenzene	12.89	77	1311032	11.56	ug/mL	99
65) Di-n-Butylphthalate	15.15	149	1815289	11.39	ug/mL	100
66) Fluoranthene	16.06	202	1569696	12.12	ug/mL	98
67) alpha-BHC	13.43	183	240106	11.50	ug/mL	99
68) beta-BHC	13.77	181	195608	12.16	ug/mL	96
69) gamma-BHC	13.91	183	201065	12.04	ug/mL	99
70) delta-BHC	14.28	183	181108	12.10	ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	230922	11.95 ug/mL	98
72)	Aldrin	15.42	66	242114	11.39 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	86907	12.40 ug/mL	100
74)	Endosulfan I	16.42	195	64369	12.04 ug/mL	100
75)	4,4'-DDE	16.64	246	366769	12.21 ug/mL	100
76)	Dieldrin	16.76	79	307499	11.71 ug/mL	100
77)	Endrin	17.04	263	55426	13.48 ug/mL	94
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	649953	12.05 ug/mL	100
80)	Endosulfan Sulfate	17.64	272	83094	12.13 ug/mL	98
81)	4,4'-DDT	17.66	235	489286	11.87 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	72411	13.34 ug/mL	94
84)	Methoxychlor	18.31	227	1103812	12.19 ug/mL#	1
86)	Pyrene	16.42	202	1494500	11.40 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	764908	11.90 ug/mL	97
88)	Benzo[a]anthracene	18.35	228	1385532	11.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	189801	10.49 ug/mL	99
90)	Chrysene	18.40	228	1150485	11.90 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	1001987	11.47 ug/mL	100
94)	Di-n-octylphthalate	19.49	149	1701976	13.37 ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	964918	12.84 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	925098	12.75 ug/mL	97
97)	Benzo[a]pyrene	20.54	252	739236	12.76 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	413428	12.89 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.95	278	365685	12.77 ug/mL	97
100)	Benzo[g,h,i]perylene	23.54	276	433903	12.65 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

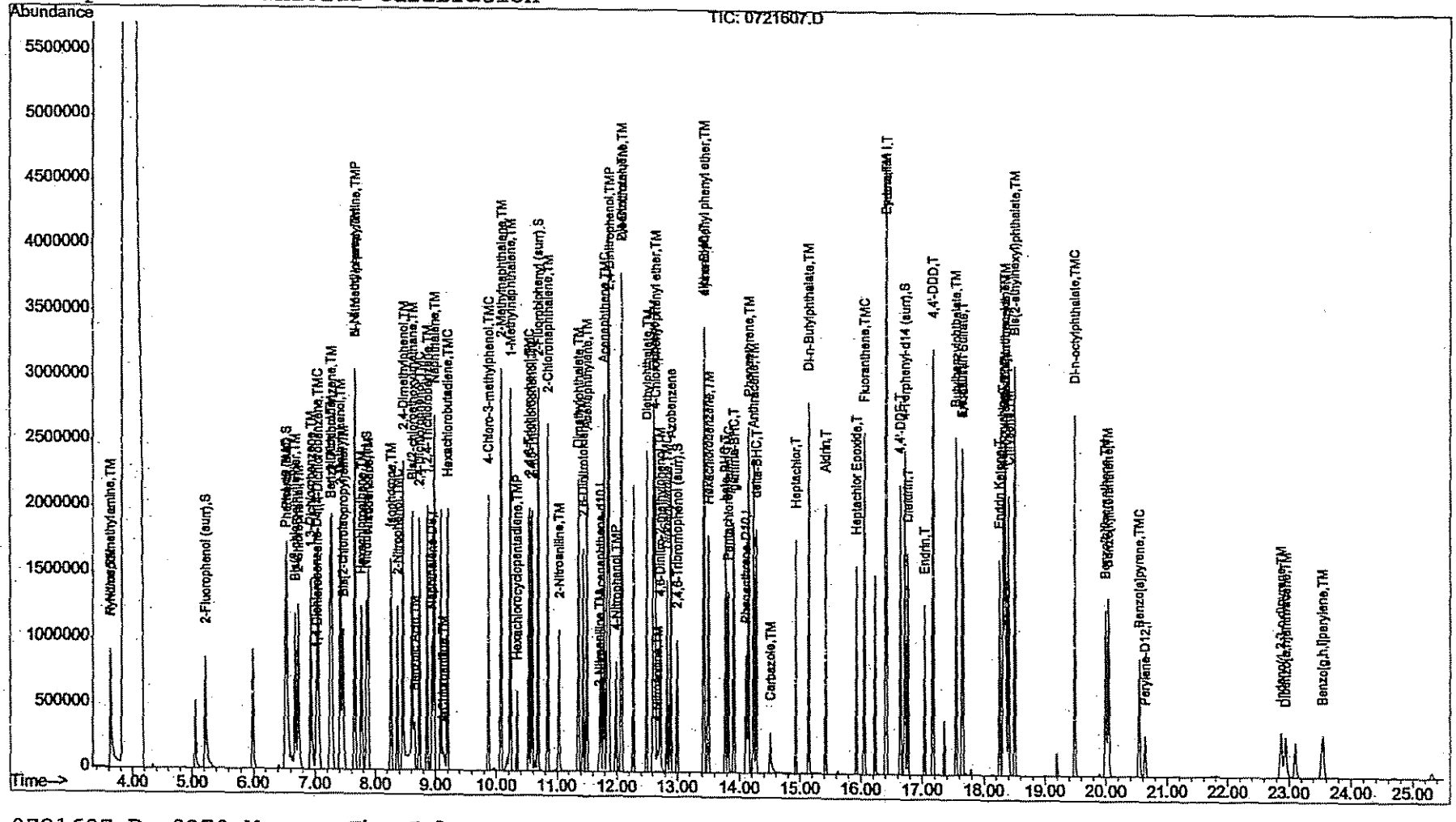
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D
Acq On : 21 Jul 2005 12:08 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005

Vial: 7
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

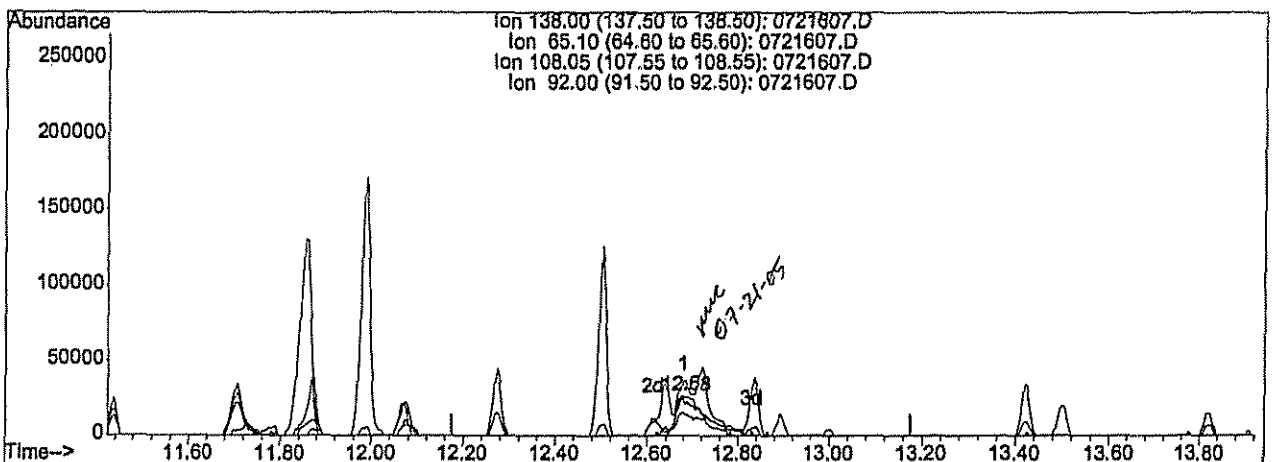
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

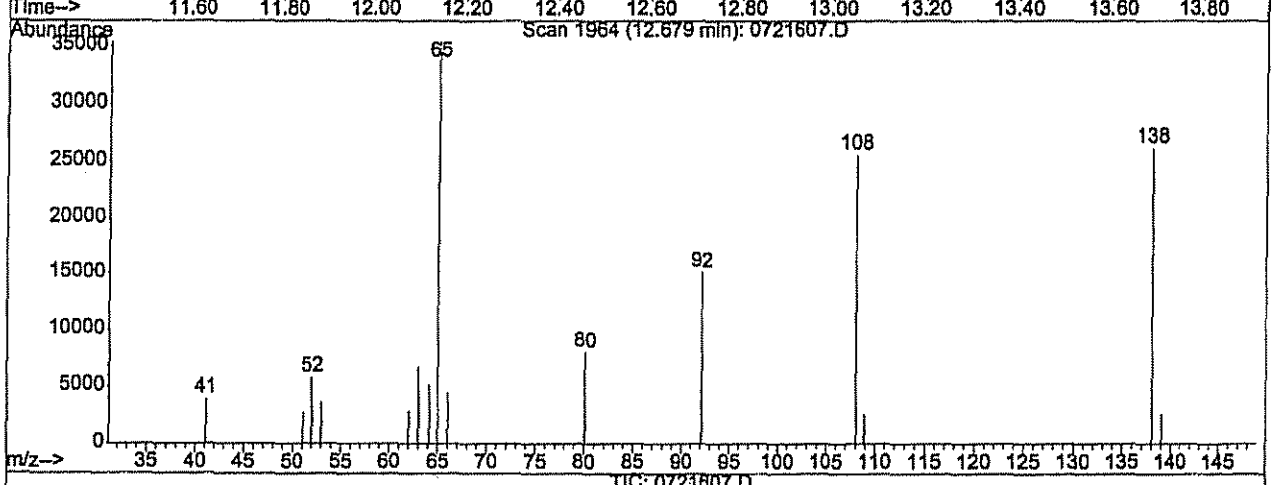


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.68min 11.59ug/mL m

response 124658

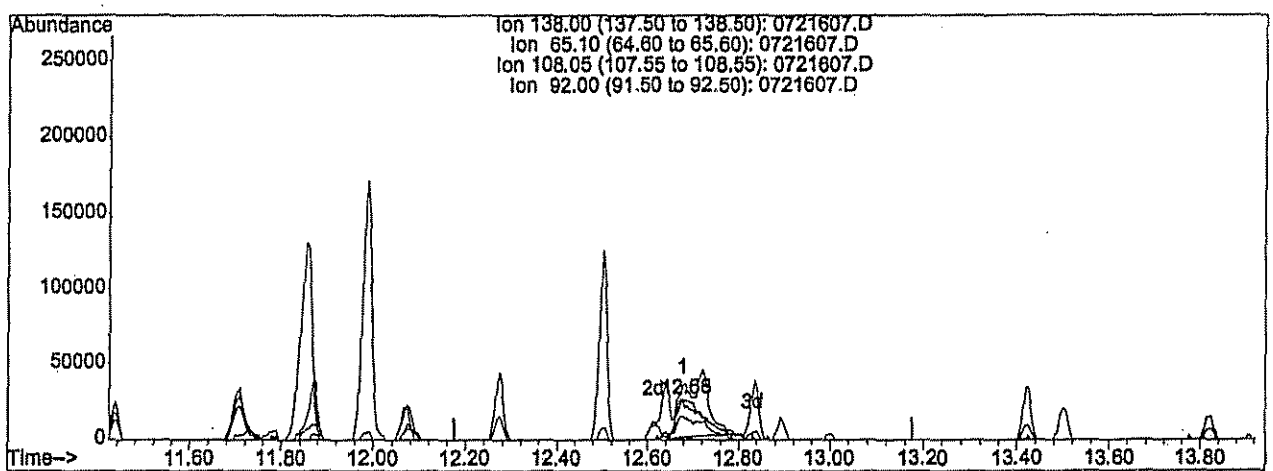
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	134.67
108.05	86.20	97.81
92.00	49.30	57.87

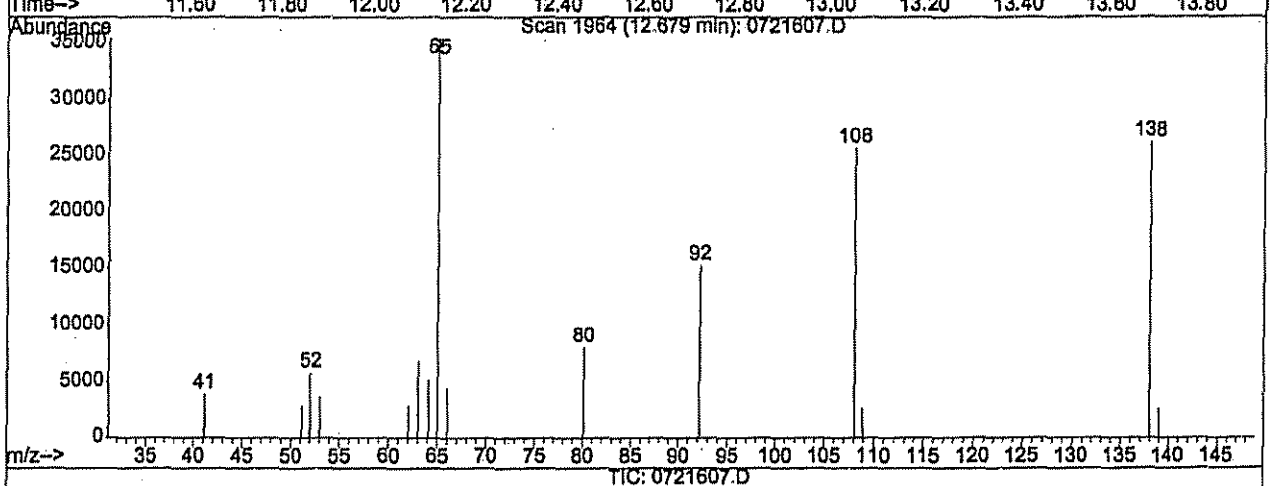
0721607.D 8270.M Thu Jul 21 13:59:53 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:58 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.68min 9.13ug/mL

response 98186

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	128.42
108.05	86.20	113.71#
92.00	49.30	53.47

0721607.D 8270.M Thu Jul 21 13:59:49 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	122278	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	517311	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	311486	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438342	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	290404	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	178109	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	767267	24.91	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	249.10%	
17) Phenol-d6 (surr)	6.52	99	1178414	23.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	238.80%	
32) Nitrobenzene-d5 (surr)	7.86	128	429092	23.25	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	232.50%	
53) 2-Fluorobiphenyl (surr)	10.69	172	1956958	21.75	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	217.50%	
54) 2,4,6-Tribromophenol (surr	13.01	330	222758	24.65	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	246.50%	
92) 4-Terphenyl-d14 (surr)	16.73	244	1726155	24.44	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	244.40%	
Target Compounds						Qvalue
2) Pyridine	3.62	79	790676	29.68	ug/mL#	60
3) N-Nitrosodimethylamine	3.65	74	504774	25.39	ug/mL	98
4) Phenol	6.55	94	1295148	23.39	ug/mL	96
5) Bis(2-chloroethyl)ether	6.67	93	1076487	24.95	ug/mL	99
6) 2-Chlorophenol	6.72	128	982226	23.33	ug/mL	98
7) Benzyl Alcohol	7.25	108	711206	24.34	ug/mL	94
8) 1,3-Dichlorobenzene	6.94	146	951491	23.26	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	980198	23.50	ug/mL	98
10) 1,2-Dichlorobenzene	7.27	146	870437	22.78	ug/mL	96
11) 2-Methylphenol	7.42	107	809500	23.42	ug/mL	97
12) 3-, 4-Methylphenol	7.66	107	1194245	23.87	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	1175799	23.47	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.67	70	630646	24.17	ug/mL	99
15) Hexachloroethane	7.77	117	392830	24.32	ug/mL	98
19) Nitrobenzene	7.89	77	1163139	23.59	ug/mL	99
20) Isophorone	8.27	82	1738715	23.39	ug/mL	98
21) 2-Nitrophenol	8.37	139	543225	22.04	ug/mL	93
22) 2,4-Dimethylphenol	8.47	122	798095	23.35	ug/mL	98
23) Benzoic Acid	8.71	122	555016	29.06	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.62	93	1121319	22.44	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	824192	22.88 ug/mL	98
26) 1,2,4-Trichlorobenzene	8.87	180	841407	22.23 ug/mL	99
27) Naphthalene	8.99	128	2598909	22.58 ug/mL	100
28) 4-Chloroaniline	9.13	127	452048	23.57 ug/mL	97
29) Hexachlorobutadiene	9.20	225	529509	22.75 ug/mL	96
30) 4-Chloro-3-methylphenol	9.87	107	1012809	24.41 ug/mL	98
31) 2-Methylnaphthalene	10.08	142	1900064	22.74 ug/mL	99
34) Hexachlorocyclopentadiene	10.35	237	197990	23.37 ug/mL	86
35) 2,4,6-Trichlorophenol	10.54	196	649717	22.88 ug/mL	96
36) 2,4,5-Trichlorophenol	10.59	196	664794	23.17 ug/mL	99
37) 2-Chloronaphthalene	10.85	162	1741074	22.15 ug/mL	99
38) 2-Nitroaniline	11.04	65	639191	24.34 ug/mL	95
39) 3-Nitroaniline	11.71	138	95575	18.25 ug/mL	97
40) 1-Methylnaphthalene	10.24	142	1714757	21.91 ug/mL	100
41) Dimethylphthalate	11.37	163	2039985	22.54 ug/mL	99
42) Acenaphthylene	11.51	152	2254921	21.50 ug/mL	100
43) 2,6-Dinitrotoluene	11.44	165	458707	23.82 ug/mL	96
44) Acenaphthene	11.79	153	1572312	22.49 ug/mL	98
45) 2,4-Dinitrophenol	11.88	184	234597	27.55 ug/mL	95
46) 4-Nitrophenol	12.00	109	289989	26.46 ug/mL	90
47) Dibenzofuran	12.08	168	2535076	22.47 ug/mL	100
48) 2,4-Dinitrotoluene	12.09	165	556493	23.37 ug/mL#	80
49) Fluorene	12.62	166	1889210	22.68 ug/mL	99
50) Diethylphthalate	12.51	149	1879831	22.73 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.65	204	966295	21.95 ug/mL	95
52) 4-Nitroaniline	12.69	138	184702m	19.82 ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.73	198	345263	26.71 ug/mL	97
57) Diphenylamine	12.84	169	872804	18.92 ug/mL	98
58) 4-bromophenyl phenyl ether	13.43	248	536708	21.71 ug/mL	95
59) Hexachlorobenzene	13.51	284	523566	22.28 ug/mL	98
60) Pentachlorophenol	13.83	266	373486	24.86 ug/mL	96
61) Phenanthrene	14.15	178	2489812	22.35 ug/mL	99
62) Carbazole	14.51	167	567714	14.29 ug/mL	95
63) Anthracene	14.24	178	2301652	22.35 ug/mL	100
64) Azobenzene	12.90	77	2181823	22.51 ug/mL	99
65) Di-n-Butylphthalate	15.15	149	3004141	22.11 ug/mL	100
66) Fluoranthene	16.07	202	2552565	22.88 ug/mL	100
67) alpha-BHC	13.44	183	389091	21.86 ug/mL	100
68) beta-BHC	13.78	181	315495	22.75 ug/mL	98
69) gamma-BHC	13.92	183	329269	22.91 ug/mL	99
70) delta-BHC	14.28	183	297338	23.06 ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	393961	23.74 ug/mL	98
72)	Aldrin	15.42	66	403178	22.29 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	139994	23.08 ug/mL	98
74)	Endosulfan I	16.42	195	102123	22.20 ug/mL	93
75)	4,4'-DDE	16.65	246	600743	23.19 ug/mL	99
76)	Dieldrin	16.77	79	498423	22.19 ug/mL	98
77)	Endrin	17.05	263	99145	27.37 ug/mL	97
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	1043672	22.49 ug/mL	100
80)	Endosulfan Sulfate	17.65	272	137631	23.32 ug/mL	99
81)	4,4'-DDT	17.66	235	845021	23.90 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	112485	23.58 ug/mL	94
84)	Methoxychlor	18.32	227	1758776	22.52 ug/mL#	1
86)	Pyrene	16.42	202	2457147	23.89 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	1250098	24.61 ug/mL	98
88)	Benzo[a]anthracene	18.35	228	2175634	23.64 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.35	252	323629	23.09 ug/mL	95
90)	Chrysene	18.41	228	1791111	23.45 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.51	149	1617949	23.59 ug/mL	98
94)	Di-n-octylphthalate	19.50	149	2626082	25.49 ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	1468444	24.33 ug/mL	99
96)	Benzo[k]fluoranthene	20.05	252	1375119	23.63 ug/mL	99
97)	Benzo[a]pyrene	20.55	252	1152135	24.77 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.89	276	683190	26.51 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.96	278	648916	28.24 ug/mL	98
100)	Benzo[g,h,i]perylene	23.56	276	700898	25.50 ug/mL	96

(#) = qualifier out of range (m) = manual integration

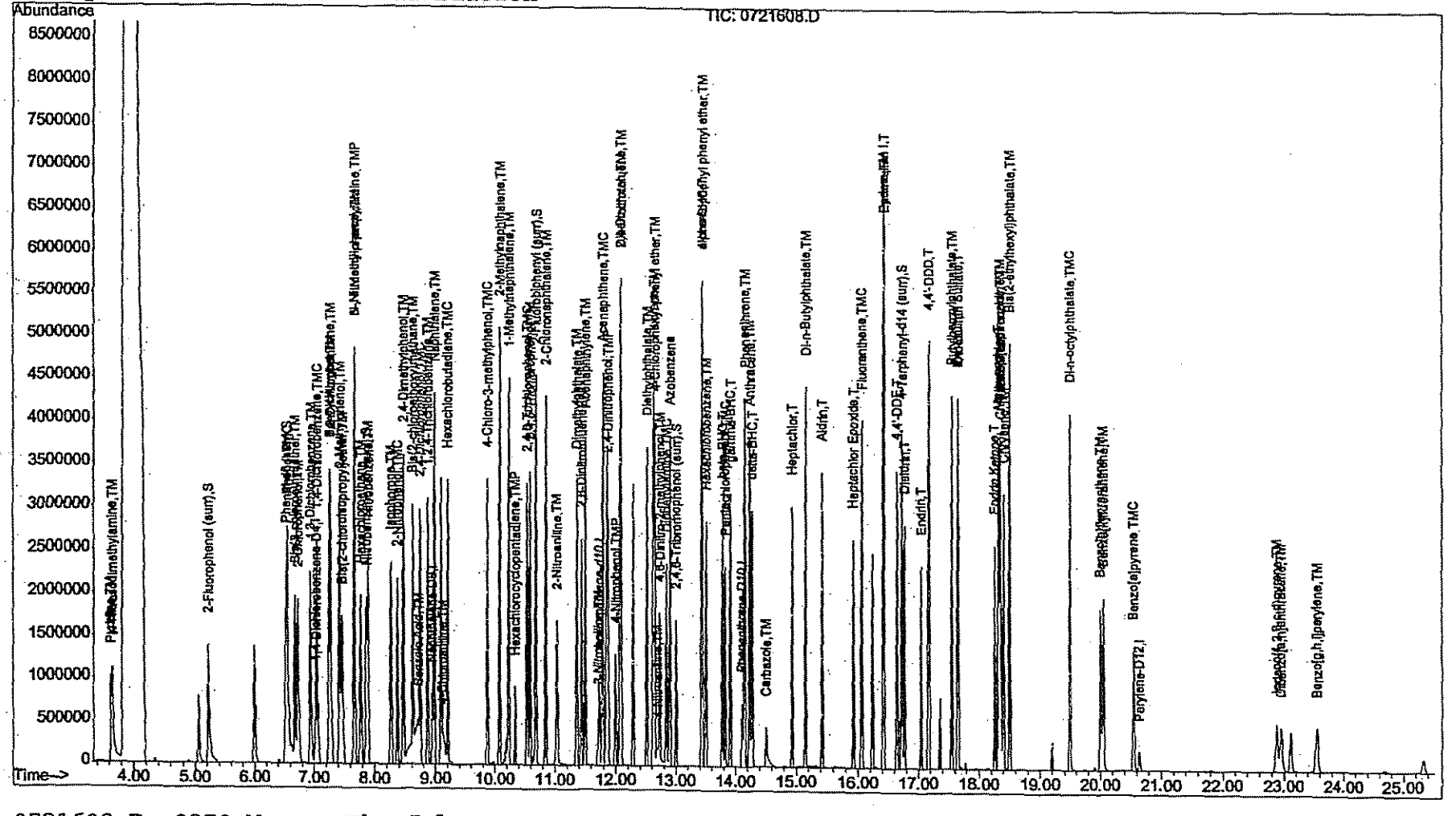
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

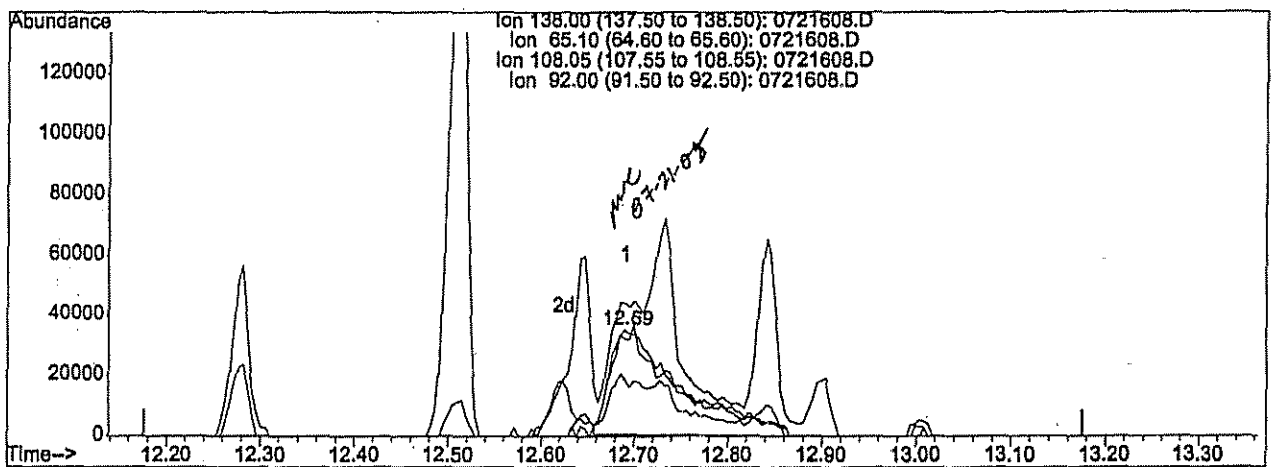
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

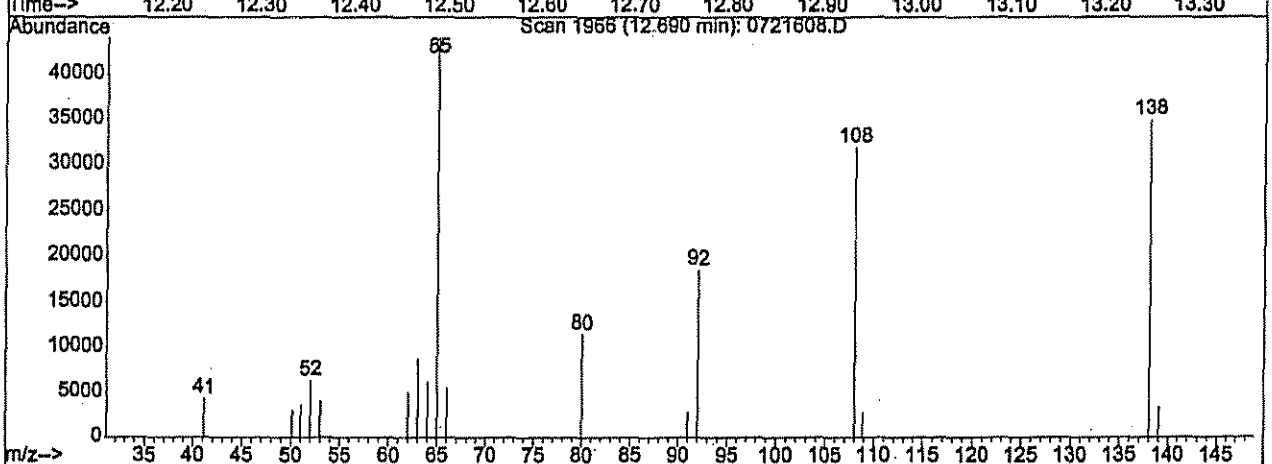


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration





TIC: 0721608.D

(52) 4-Nitroaniline (TM)

12.69min 19.82ug/mL m

response 184702

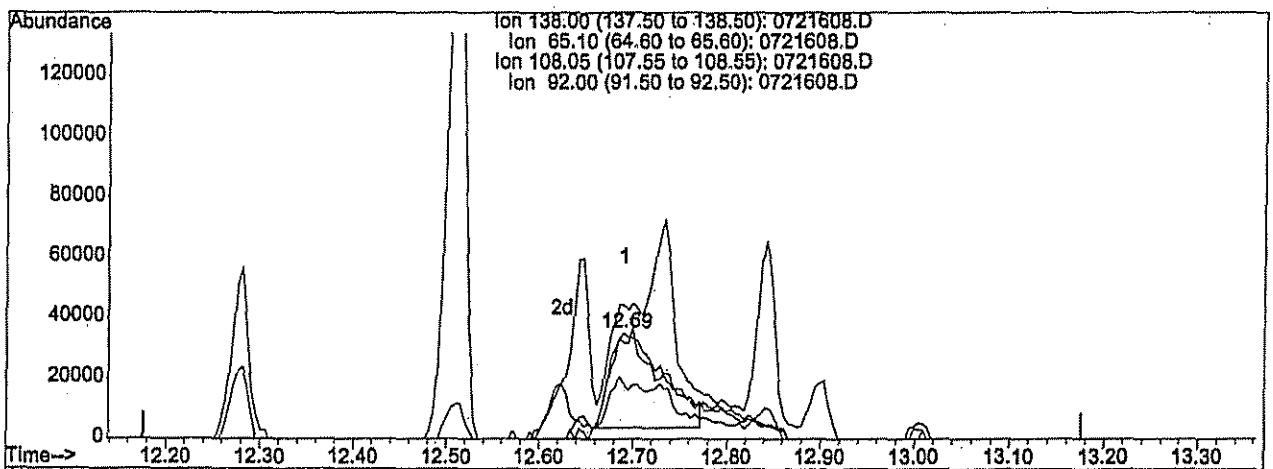
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	126.02
108.05	86.20	91.30
92.00	49.30	52.96

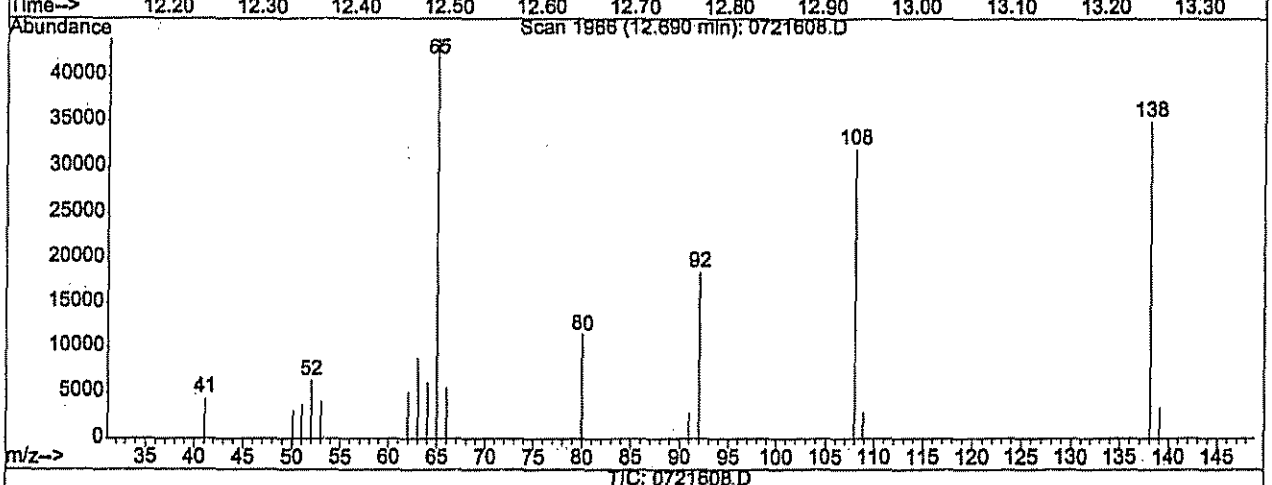
0721608.D 8270.M Thu Jul 21 14:01:18 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.69min 13.35ug/mL

response 124374

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	90.90#
108.05	86.20	91.66
92.00	49.30	48.24

0721608.D 8270.M Thu Jul 21 14:01:15 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.03	152	138333	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	571046	4.00	ug/mL	0.01
33) Acenaphthene-d10	11.74	164	330788	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.12	188	486108	4.00	ug/mL	0.02
85) Chrysene-D12	18.38	240	294995	4.00	ug/mL	0.02
93) Perylene-D12	20.65	264	187831	4.00	ug/mL	0.01
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.24	112	1650145	47.11	ug/mL	0.03
Spiked Amount 10.000			Recovery	=	471.10%	
17) Phenol-d6 (surr)	6.55	99	2491299	44.66	ug/mL	0.04
Spiked Amount 10.000			Recovery	=	446.60%	
32) Nitrobenzene-d5 (surr)	7.88	128	901982	44.48	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	444.80%	
53) 2-Fluorobiphenyl (surr)	10.70	172	4156107	44.09	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	440.90%	
54) 2,4,6-Tribromophenol (surr	13.02	330	498196	51.72	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	517.20%	
92) 4-Terphenyl-d14 (surr)	16.74	244	3880768	53.95	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	539.50%	
Target Compounds						Qvalue
2) Pyridine	3.69	79	1476355	47.39	ug/mL#	49
3) N-Nitrosodimethylamine	3.76	74	1076360	47.46	ug/mL	97
4) Phenol	6.57	94	2655754	42.55	ug/mL	91
5) Bis(2-chloroethyl)ether	6.69	93	2210528	45.03	ug/mL	96
6) 2-Chlorophenol	6.73	128	2096352	44.19	ug/mL	98
7) Benzyl Alcohol	7.27	108	1530858	46.21	ug/mL	99
8) 1,3-Dichlorobenzene	6.95	146	2063502	44.79	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	2120732	45.07	ug/mL	96
10) 1,2-Dichlorobenzene	7.28	146	1872214	43.63	ug/mL	97
11) 2-Methylphenol	7.44	107	1718537	44.11	ug/mL	98
12) 3-, 4-Methylphenol	7.69	107	2540246	44.91	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.48	45	2450397	43.37	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.72	70	1323968	44.80	ug/mL	99
15) Hexachloroethane	7.77	117	838678	45.81	ug/mL	96
19) Nitrobenzene	7.91	77	2438424	44.92	ug/mL	97
20) Isophorone	8.29	82	3639656	44.51	ug/mL	99
21) 2-Nitrophenol	8.38	139	1127836	41.94	ug/mL	90
22) 2,4-Dimethylphenol	8.49	122	1708411	45.46	ug/mL	97
23) Benzoic Acid	8.81	122	1289762m	59.39	ug/mL	
24) Bis(2-chloroethoxy)methane	8.64	93	2395212	43.84	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.76	162	1763969	44.66 ug/mL	100
26) 1,2,4-Trichlorobenzene	8.88	180	1786571	43.21 ug/mL	99
27) Naphthalene	9.00	128	5561051	44.14 ug/mL	99
28) 4-Chloroaniline	9.12	127	964869	45.70 ug/mL	93
29) Hexachlorobutadiene	9.21	225	1108264	43.47 ug/mL	99
30) 4-Chloro-3-methylphenol	9.89	107	2135601	46.52 ug/mL	96
31) 2-Methylnaphthalene	10.09	142	4124998	45.07 ug/mL	100
34) Hexachlorocyclopentadiene	10.35	237	510983	57.01 ug/mL	94
35) 2,4,6-Trichlorophenol	10.55	196	1377041	45.97 ug/mL	97
36) 2,4,5-Trichlorophenol	10.60	196	1415089	46.67 ug/mL	98
37) 2-Chloronaphthalene	10.86	162	3672397	44.48 ug/mL	99
38) 2-Nitroaniline	11.05	65	1314610	47.04 ug/mL	97
39) 3-Nitroaniline	11.73	138	343703	64.00 ug/mL	99
40) 1-Methylnaphthalene	10.25	142	3664028	44.64 ug/mL	99
41) Dimethylphthalate	11.39	163	4298422	45.11 ug/mL	99
42) Acenaphthylene	11.51	152	4006778	36.52 ug/mL	99
43) 2,6-Dinitrotoluene	11.47	165	955941	46.79 ug/mL	93
44) Acenaphthene	11.80	153	3345032	45.46 ug/mL	99
45) 2,4-Dinitrophenol	11.90	184	534022	57.83 ug/mL	92
46) 4-Nitrophenol	12.03	109	654508	55.43 ug/mL	88
47) Dibenzofuran	12.09	168	5369727	45.22 ug/mL	97
48) 2,4-Dinitrotoluene	12.11	165	1202675	47.74 ug/mL#	69
49) Fluorene	12.64	166	4046417	46.11 ug/mL	97
50) Diethylphthalate	12.53	149	3933544	45.12 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.66	204	2031555	44.00 ug/mL	99
52) 4-Nitroaniline	12.71	138	312190	32.35 ug/mL	96
56) 4,6-Dinitro-2-methylphenol	12.76	198	791020	54.30 ug/mL	98
57) Diphenylamine	12.86	169	1165025	23.49 ug/mL	98
58) 4-bromophenyl phenyl ether	13.44	248	1143229	42.28 ug/mL	95
59) Hexachlorobenzene	13.52	284	1119880	43.41 ug/mL	93
60) Pentachlorophenol	13.84	266	838397	50.07 ug/mL	96
61) Phenanthrene	14.17	178	5355876	43.79 ug/mL	100
62) Carbazole	14.51	167	1588003	38.25 ug/mL	96
63) Anthracene	14.25	178	4995947	44.18 ug/mL	99
64) Azobenzene	12.91	77	4558234	42.78 ug/mL	99
65) Di-n-Butylphthalate	15.17	149	6461969	43.37 ug/mL	99
66) Fluoranthene	16.08	202	5691271	46.31 ug/mL	99
67) alpha-BHC	13.46	183	781602	40.19 ug/mL	98
68) beta-BHC	13.80	181	673622	44.19 ug/mL	98
69) gamma-BHC	13.93	183	687108	43.44 ug/mL	99
70) delta-BHC	14.29	183	627548	44.17 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.94	100	825315	44.93 ug/mL	97
72)	Aldrin	15.43	66	837302	42.24 ug/mL	99
73)	Heptachlor Epoxide	15.94	353	314041	46.99 ug/mL	99
74)	Endosulfan I	16.44	195	199433	39.59 ug/mL#	90
75)	4,4'-DDE	16.66	246	1321162	46.24 ug/mL	99
76)	Dieldrin	16.78	79	1073980	43.66 ug/mL	100
77)	Endrin	17.05	263	215277	52.36 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.19	235	2138856	41.99 ug/mL	100
80)	Endosulfan Sulfate	17.66	272	218295	33.51 ug/mL	96
81)	4,4'-DDT	17.67	235	1691455	43.17 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.28	317	215637	40.88 ug/mL	97
84)	Methoxychlor	18.33	227	3275066	38.20 ug/mL#	1
86)	Pyrene	16.44	202	5512649	52.80 ug/mL#	95
87)	Butylbenzylphthalate	17.57	149	2421942	46.76 ug/mL	99
88)	Benzo[a]anthracene	18.37	228	4376023	46.90 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.36	252	695288	49.10 ug/mL	93
90)	Chrysene	18.43	228	3569644	46.15 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.51	149	3131724	45.05 ug/mL	99
94)	Di-n-octylphthalate	19.50	149	5035785	45.95 ug/mL	100
95)	Benzo[b]fluoranthene	20.02	252	3007680	47.16 ug/mL	99
96)	Benzo[k]fluoranthene	20.07	252	2570961	41.98 ug/mL	98
97)	Benzo[a]pyrene	20.57	252	2306545	46.82 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.91	276	1691539	61.31 ug/mL	92
99)	Dibenzo[a,h]anthracene	22.98	278	1594726	64.18 ug/mL	97
100)	Benzo[g,h,i]perylene	23.59	276	1694824	57.95 ug/mL	96

(#) = qualifier out of range (m) = manual integration

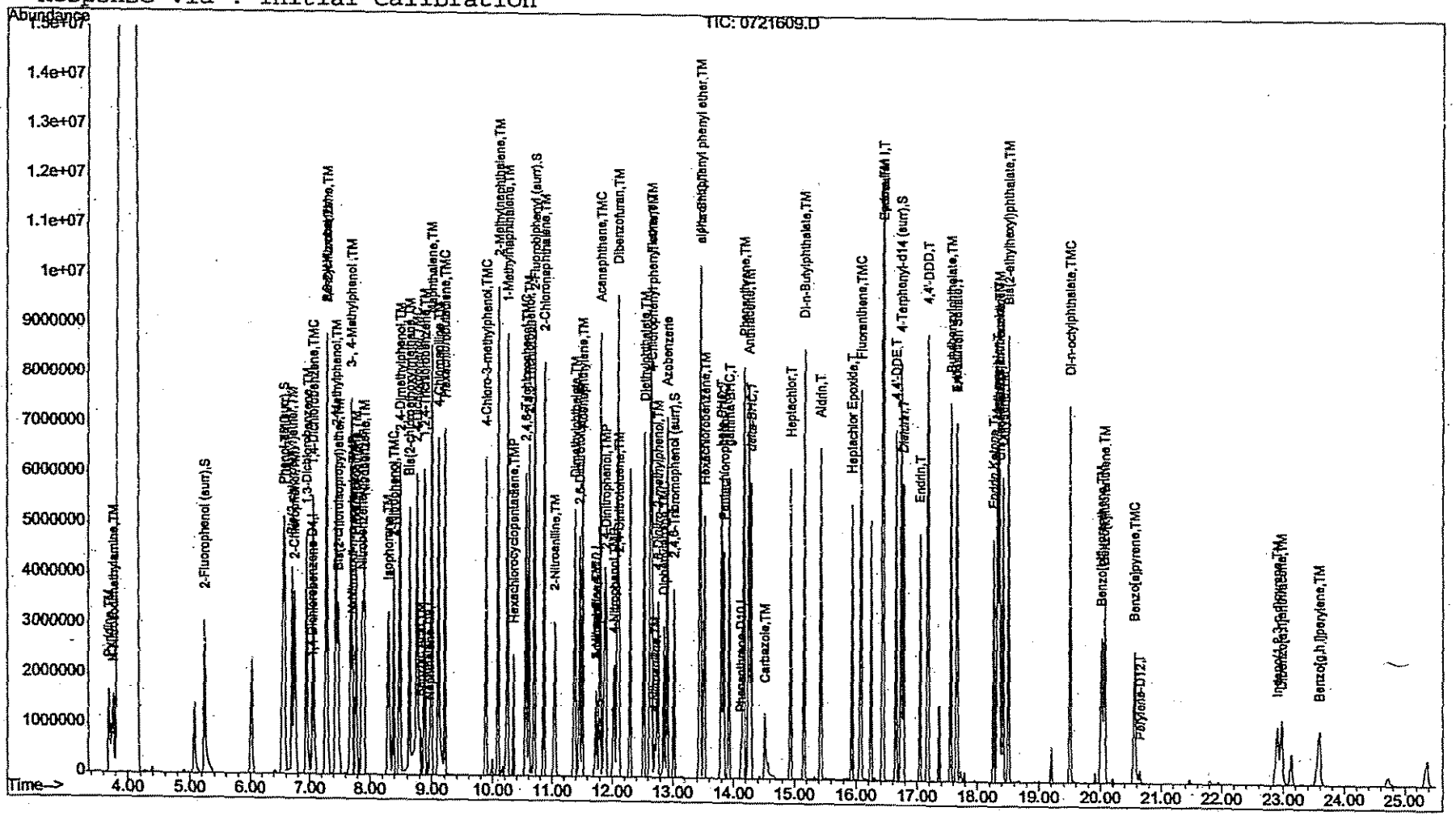
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D
Acq On : 21 Jul 2005 1:16 pm
Sample : SVCAL48
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005

Vial: 9
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

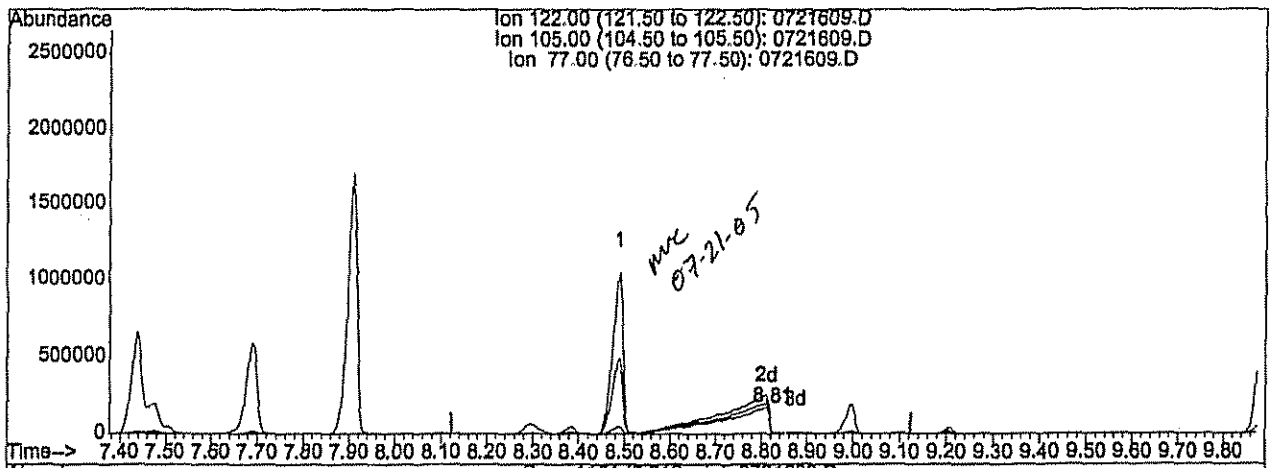


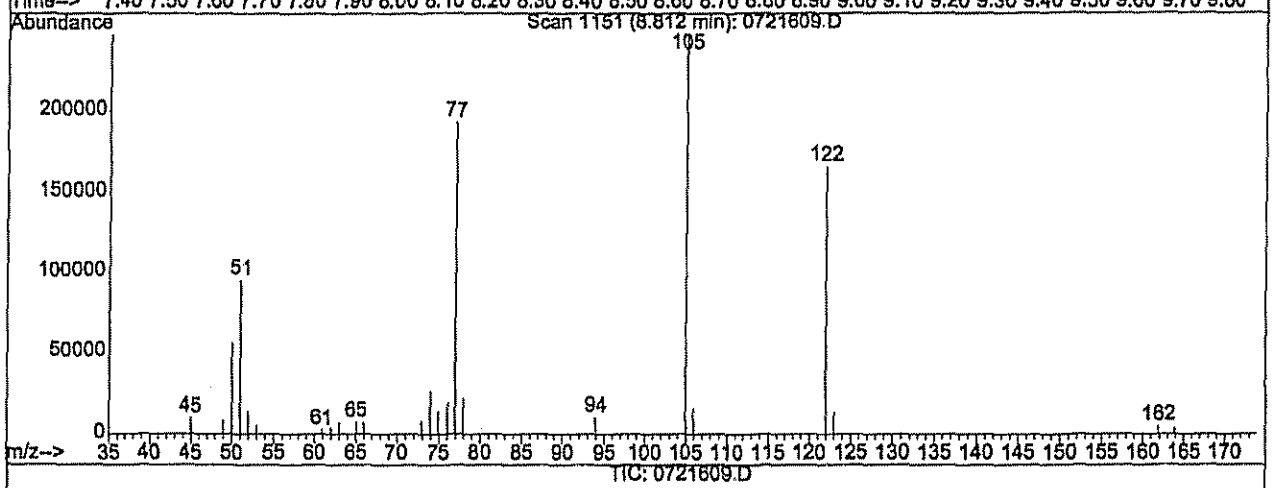
0721609.D 8270.M Thu Jul 21 14:11:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (TM)

8.81min 59.39ug/mL m

response 1289762

Ion	Exp%	Act%
122.00	100	100
105.00	143.90	5.75#
77.00	115.50	62.60#
0.00	0.00	0.00

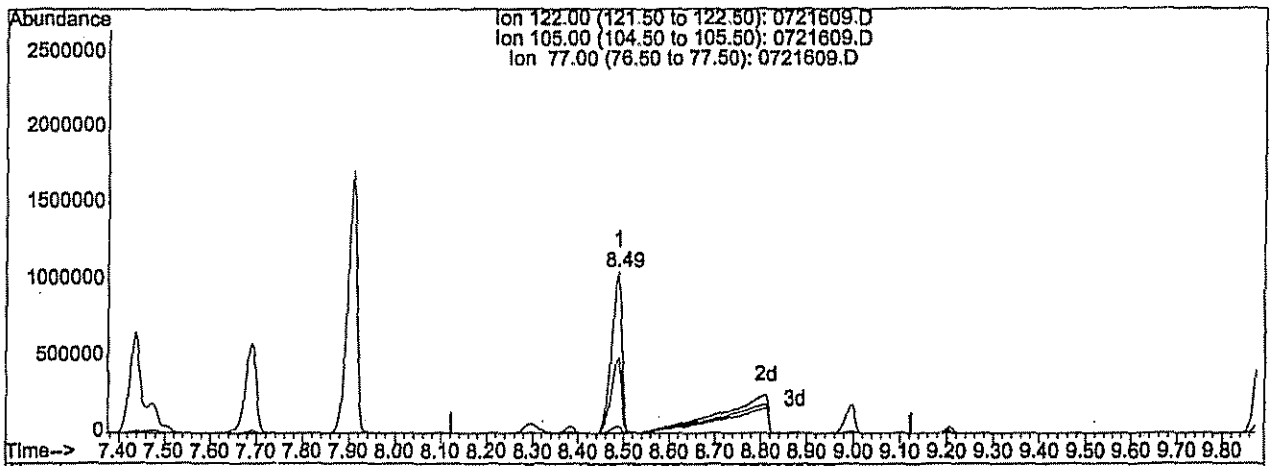
0721609.D 8270.M Thu Jul 21 14:02:23 2005 ENV

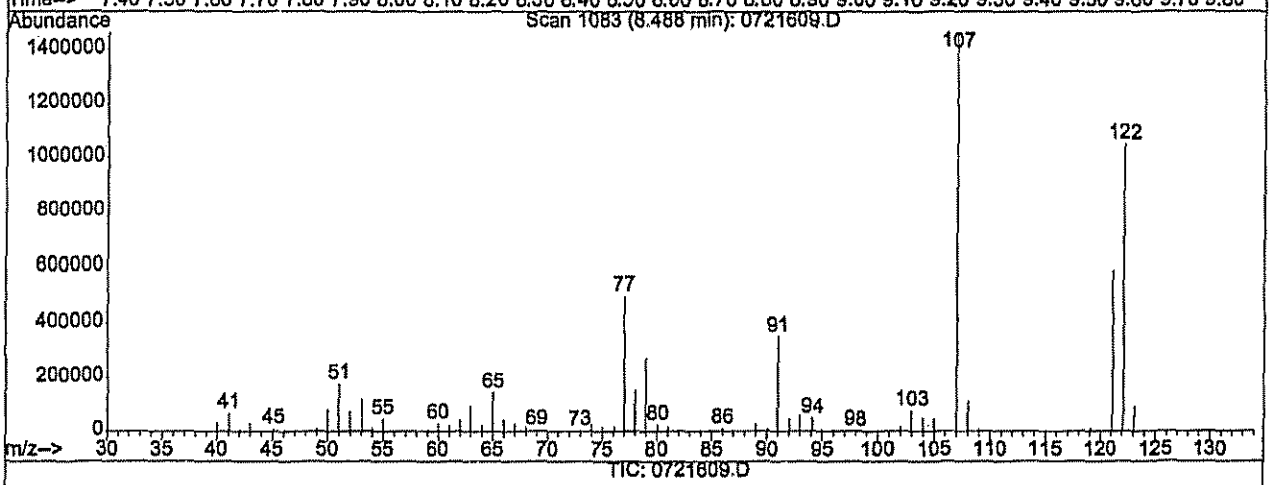
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D
Acq On : 21 Jul 2005 1:16 pm
Sample : SVCAL48
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005

Vial: 9
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (TM)

8.49min 78.66ug/mL

response 1708411

Ion	Exp%	Act%
122.00	100	100
105.00	143.90	4.34#
77.00	115.50	47.26#
0.00	0.00	0.00

0721609.D 8270.M Thu Jul 21 14:02:19 2005 ENV

8270-BN CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D Vial: 2
Acq On : 27 Jul 2005 8:15 am Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	124	-0.03
2	TM	Pyridine	0.901	1.154	-28.1#	136	0.00
3	TM	N-Nitrosodimethylamine	0.655	0.738	-12.7	146	0.01
4	TMC	Phenol	1.779	1.806	-1.5	128	-0.02
5	TM	Bis(2-chloroethyl)ether	1.409	1.471	-4.4	134	-0.03
6	TM	2-Chlorophenol	1.358	1.313	3.3	125	-0.03
7	TM	Benzyl Alcohol	0.953	0.916	3.9	125	-0.03
8	TM	1,3-Dichlorobenzene	1.321	1.281	3.0	124	-0.03
9	TMC	1,4-Dichlorobenzene	1.350	1.316	2.5	124	-0.03
10	TM	1,2-Dichlorobenzene	1.227	1.167	4.9	122	-0.03
11	TM	2-Methylphenol	1.115	1.069	4.1	124	-0.02
12	TM	3-, 4-Methylphenol	1.622	1.534	5.4	122	-0.03
13	TM	Bis(2-chloroisopropyl)ether	1.614	1.577	2.3	126	-0.03
14	TMP	N-Nitrosodi-n-propylamine	0.847	0.841	0.7	132	-0.03
15	TM	Hexachloroethane	0.526	0.504	4.2	125	-0.03
16	S	2-Fluorophenol (surr)	1.011	1.023	-1.2	125	-0.02
17	S	Phenol-d6 (surr)	1.599	1.599	0.0	128	-0.02
18	I	Naphthalene-D8	1.000	1.000	0.0	120	-0.03
19	TM	Nitrobenzene	0.377	0.381	-1.1	128	-0.03
20	TM	Isophorone	0.568	0.541	4.8	120	-0.03
21	TMC	2-Nitrophenol	0.185	0.170	8.1	119	-0.03
22	TM	2,4-Dimethylphenol	0.262	0.252	3.8	118	-0.03
23	TM	Benzoic Acid	0.152	0.182	-19.7	149	0.01
24	TM	Bis(2-chloroethoxy)methane	0.379	0.364	4.0	122	-0.03
25	TMC	2,4-Dichlorophenol	0.274	0.267	2.6	123	-0.02
26	TM	1,2,4-Trichlorobenzene	0.286	0.267	6.6	118	-0.03
27	TM	Naphthalene	0.874	0.837	4.2	121	-0.03
28	TM	4-Chloroaniline	0.142	0.149	-4.9	162	-0.02
29	TMC	Hexachlorobutadiene	0.176	0.167	5.1	121	-0.03
30	TMC	4-Chloro-3-methylphenol	0.320	0.321	-0.3	128	-0.02
31	TM	2-Methylnaphthalene	0.636	0.604	5.0	120	-0.03
32	S	Nitrobenzene-d5 (surr)	0.141	0.138	2.1	125	-0.03
33	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.03
34	TMP	Hexachlorocyclopentadiene	0.111	0.126	-13.5	163	-0.03
35	TMC	2,4,6-Trichlorophenol	0.360	0.349	3.1	121	-0.03
36	TM	2,4,5-Trichlorophenol	0.365	0.382	-4.7	132	-0.03
37	TM	2-Chloronaphthalene	0.989	0.965	2.4	122	-0.03
38	TM	2-Nitroaniline	0.337	0.343	-1.8	130	-0.02
39	TM	3-Nitroaniline	0.063	0.062	1.6	181	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D Vial: 2
Acq On : 27 Jul 2005 8:15 am Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TM	1-Methylnaphthalene	0.984	0.940	4.5	118	-0.03
41	TM	Dimethylphthalate	1.144	1.114	2.6	121	-0.03
42	TM	Acenaphthylene	1.287	1.261	2.0	119	-0.03
43	TM	2,6-Dinitrotoluene	0.246	0.252	-2.4	126	-0.03
44	TMC	Acenaphthene	0.884	0.849	4.0	120	-0.03
45	TMP	2,4-Dinitrophenol	0.115	0.149	-29.6#	156	-0.02
46	TMP	4-Nitrophenol	0.146	0.156	-6.8	140	0.00
47	TM	Dibenzofuran	1.425	1.401	1.7	123	-0.03
48	TM	2,4-Dinitrotoluene	0.304	0.314	-3.3	128	-0.03
49	TM	Fluorene	1.056	1.054	0.2	125	-0.03
50	TM	Diethylphthalate	1.046	1.016	2.9	121	-0.03
51	TM	4-Chlorophenyl phenyl ether	0.553	0.527	4.7	117	-0.03
52	TM	4-Nitroaniline	0.117	0.042#	64.1#	43#	-0.01
53	S	2-Fluorobiphenyl (surr)	1.128	1.074	4.8	120	-0.03
54	S	2,4,6-Tribromophenol (surr)	0.118	0.122	-3.4	126	-0.03
55	I	Phenanthrene-D10	1.000	1.000	0.0	129	-0.03
56	TM	4,6-Dinitro-2-methylphenol	0.122	0.135	-10.7	147	-0.03
57	TMC	Diphenylamine	0.408	0.349	14.5	119	-0.02
58	TM	4-bromophenyl phenyl ether	0.219	0.193	11.9	120	-0.03
59	TM	Hexachlorobenzene	0.210	0.182	13.3	116	-0.03
60	TMC	Pentachlorophenol	0.139	0.130	6.5	124	-0.03
61	TM	Phenanthrene	0.995	0.953	4.2	128	-0.03
62	TM	Carbazole	0.404	0.280	30.7#	102	-0.01
63	TM	Anthracene	0.921	0.897	2.6	131	-0.03
64		Azobenzene	0.865	0.808	6.6	127	-0.03
65	TM	Di-n-Butylphthalate	1.211	1.072	11.5	117	-0.03
66	TMC	Fluoranthene	1.007	0.981	2.6	131	-0.03
67	T	alpha-BHC	0.156	0.142	9.0	120	-0.03
68	T	beta-BHC	0.124	0.117	5.6	126	-0.02
69	T	gamma-BHC	0.128	0.123	3.9	125	-0.03
70	T	delta-BHC	0.116	0.114	1.7	128	-0.03
71	T	Heptachlor	0.150	0.144	4.0	126	-0.03
72	T	Aldrin	0.160	0.151	5.6	122	-0.03
73	T	Heptachlor Epoxide	0.055	0.050#	9.1	116	-0.03
74	T	Endosulfan I	0.040	0.038#	5.0	115	-0.03
75	T	4,4'-DDE	0.234	0.221	5.6	124	-0.03
76	T	Dieldrin	0.200	0.186	7.0	121	-0.03
77	T	Endrin	0.034	0.038#	-11.8	153	-0.03
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.412	0.380	7.8	122	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D Vial: 2
Acq On : 27 Jul 2005 8:15 am Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.051	0.046#	9.8	112	-0.03
81	T	4,4'-DDT	0.318	0.261	17.9	111	-0.03
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.042	0.033#	21.4#	97	-0.03
84	T	Methoxychlor	0.685	0.541	21.0#	100	-0.03
85	I	Chrysene-D12	1.000	1.000	0.0	106	-0.03
86	TM	Pyrene	1.433	1.582	-10.4	129	-0.03
87	TM	Butylbenzylphthalate	0.700	0.724	-3.4	117	-0.03
88	TM	Benzo[a]anthracene	1.261	1.178	6.6	104	-0.03
89	TM	3,3'-Dichlorobenzidine	0.193	0.106	45.1#	62	-0.02
90	TM	Chrysene	1.044	1.012	3.1	106	-0.03
91	TM	Bis(2-ethylhexyl)phthalate	0.935	0.904	3.3	110	-0.03
92	S	4-Terphenyl-d14 (surr)	0.991	1.081	-9.1	126	-0.03
93	I	Perylene-D12	1.000	1.000	0.0	74	-0.04
94	TMC	Di-n-octylphthalate	2.322	2.708	-16.6	90	-0.03
95	TM	Benzo[b]fluoranthene	1.355	1.337	1.3	76	-0.03
96	TM	Benzo[k]fluoranthene	1.284	1.458	-13.6	85	-0.03
97	TMC	Benzo[a]pyrene	1.046	1.083	-3.5	81	-0.04
98	TM	Indeno(1,2,3-c,d)pyrene	0.608	0.576	5.3	75	-0.05
99	TM	Dibenzo[a,h]anthracene	0.551	0.595	-8.0	87	-0.05
100	TM	Benzo[g,h,i]perylene	0.639	0.651	-1.9	78	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D Vial: 2
Acq On : 27 Jul 2005 8:15 am Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 9:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pml 07-27-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.99	152	178970	4.00	ug/mL	-0.03
18) Naphthalene-D8	8.91	136	718299	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.70	164	412687	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.08	188	627999	4.00	ug/mL	-0.03
85) Chrysene-D12	18.33	240	369644	4.00	ug/mL	-0.03
93) Perylene-D12	20.60	264	171013	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.20	112	366006	8.09	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	80.90%	
17) Phenol-d6 (surr)	6.49	99	572460	8.00	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	80.00%	
32) Nitrobenzene-d5 (surr)	7.82	128	198905	7.87	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	78.70%	
53) 2-Fluorobiphenyl (surr)	10.65	172	886450	7.62	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	76.20%	
54) 2,4,6-Tribromophenol (surr	12.97	330	100608	8.29	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	82.90%	
92) 4-Terphenyl-d14 (surr)	16.69	244	799156	8.73	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	87.30%	
Target Compounds						Qvalue
2) Pyridine	3.62	79	412953	9.12	ug/mL#	67
3) N-Nitrosodimethylamine	3.63	74	264307	9.02	ug/mL	96
4) Phenol	6.51	94	646543	8.12	ug/mL	94
5) Bis(2-chloroethyl)ether	6.63	93	526597	8.36	ug/mL	99
6) 2-Chlorophenol	6.69	128	469962	7.73	ug/mL	94
7) Benzyl Alcohol	7.22	108	328032	7.69	ug/mL	98
8) 1,3-Dichlorobenzene	6.91	146	458647	7.76	ug/mL	98
9) 1,4-Dichlorobenzene	7.02	146	470893	7.80	ug/mL	99
10) 1,2-Dichlorobenzene	7.23	146	417560	7.61	ug/mL	97
11) 2-Methylphenol	7.39	107	382742	7.67	ug/mL	99
12) 3-, 4-Methylphenol	7.62	107	549096	7.56	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.42	45	564640	7.82	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.62	70	300863	7.94	ug/mL	97
15) Hexachloroethane	7.73	117	180393	7.66	ug/mL	94
19) Nitrobenzene	7.85	77	547212	8.08	ug/mL	99
20) Isophorone	8.23	82	777460	7.63	ug/mL	98
21) 2-Nitrophenol	8.34	139	243562	7.32	ug/mL	91
22) 2,4-Dimethylphenol	8.43	122	362410	7.72	ug/mL	96
23) Benzoic Acid	8.64	122	261925	9.59	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.58	93	522262	7.68	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D
Acq On : 27 Jul 2005 8:15 am
Sample : SVCVS8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 27 9:11 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25)	2,4-Dichlorophenol	8.71	162	382943	7.78	ug/mL	97
26)	1,2,4-Trichlorobenzene	8.84	180	383838	7.47	ug/mL	98
27)	Naphthalene	8.95	128	1201981	7.66	ug/mL	99
28)	4-Chloroaniline	9.09	127	214264	9.01	ug/mL	94
29)	Hexachlorobutadiene	9.17	225	239543	7.56	ug/mL	96
30)	4-Chloro-3-methylphenol	9.84	107	461329	8.02	ug/mL	97
31)	2-Methylnaphthalene	10.04	142	867302	7.59	ug/mL	100
34)	Hexachlorocyclopentadiene	10.31	237	103837	9.03	ug/mL	90
35)	2,4,6-Trichlorophenol	10.51	196	288022	7.75	ug/mL	98
36)	2,4,5-Trichlorophenol	10.56	196	315618	8.37	ug/mL	99
37)	2-Chloronaphthalene	10.81	162	796603	7.81	ug/mL	100
38)	2-Nitroaniline	11.01	65	282881	8.13	ug/mL	99
39)	3-Nitroaniline	11.69	138	50983	12.74	ug/mL#	93
40)	1-Methylnaphthalene	10.20	142	776070	7.65	ug/mL	100
41)	Dimethylphthalate	11.33	163	919197	7.79	ug/mL	99
42)	Acenaphthylene	11.47	152	1040620	7.84	ug/mL	99
43)	2,6-Dinitrotoluene	11.40	165	207593	8.17	ug/mL	95
44)	Acenaphthene	11.75	153	701004	7.69	ug/mL	98
45)	2,4-Dinitrophenol	11.85	184	123050	9.64	ug/mL#	84
46)	4-Nitrophenol	11.98	109	129002	8.59	ug/mL	96
47)	Dibenzofuran	12.04	168	1156547	7.86	ug/mL	98
48)	2,4-Dinitrotoluene	12.05	165	259426	8.26	ug/mL	97
49)	Fluorene	12.58	166	869828	7.98	ug/mL	96
50)	Diethylphthalate	12.47	149	838855	7.77	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.61	204	434643	7.62	ug/mL	96
52)	4-Nitroaniline	12.66	138	34429	2.86	ug/mL#	74
56)	4,6-Dinitro-2-methylphenol	12.69	198	169844	8.88	ug/mL	92
57)	Diphenylamine	12.81	169	438674	6.85	ug/mL	96
58)	4-bromophenyl phenyl ether	13.39	248	242678	7.05	ug/mL	97
59)	Hexachlorobenzene	13.47	284	228870	6.95	ug/mL	99
60)	Pentachlorophenol	13.80	266	162945	7.49	ug/mL	93
61)	Phenanthrene	14.12	178	1196869	7.66	ug/mL	100
62)	Carbazole	14.49	167	351439	5.54	ug/mL	97
63)	Anthracene	14.20	178	1126906	7.79	ug/mL	100
64)	Azobenzene	12.86	77	1014350	7.47	ug/mL	99
65)	Di-n-Butylphthalate	15.11	149	1345925	7.08	ug/mL	100
66)	Fluoranthene	16.03	202	1231963	7.79	ug/mL	99
67)	alpha-BHC	13.40	183	177972	7.25	ug/mL	93
68)	beta-BHC	13.75	181	146924	7.55	ug/mL	100
69)	gamma-BHC	13.88	183	154282	7.65	ug/mL	100
70)	delta-BHC	14.25	183	142645	7.86	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D Vial: 2
Acq On : 27 Jul 2005 8:15 am Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 9:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.90	100	180437	7.67 ug/mL	100
72)	Aldrin	15.39	66	189595	7.53 ug/mL	96
73)	Heptachlor Epoxide	15.90	353	62370	7.25 ug/mL	97
74)	Endosulfan I	16.39	195	48315	7.61 ug/mL	99
75)	4,4'-DDE	16.61	246	277444	7.56 ug/mL	98
76)	Dieldrin	16.73	79	233302	7.44 ug/mL	99
77)	Endrin	17.01	263	47784	8.88 ug/mL	97
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.14	235	477680	7.39 ug/mL	99
80)	Endosulfan Sulfate	17.61	272	57295	7.12 ug/mL	94
81)	4,4'-DDT	17.62	235	327275	6.56 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.22	317	41802	6.27 ug/mL	92
84)	Methoxychlor	18.28	227	679719	6.32 ug/mL#	1
86)	Pyrene	16.38	202	1169269	8.83 ug/mL	99
87)	Butylbenzylphthalate	17.52	149	534936	8.27 ug/mL	99
88)	Benzo[a]anthracene	18.31	228	871015	7.47 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.32	252	78090	4.39 ug/mL#	81
90)	Chrysene	18.37	228	748026	7.76 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.47	149	668429	7.73 ug/mL	98
94)	Di-n-octylphthalate	19.46	149	926150	9.33 ug/mL	100
95)	Benzo[b]fluoranthene	19.96	252	457212	7.89 ug/mL	99
96)	Benzo[k]fluoranthene	20.01	252	498769	9.09 ug/mL	98
97)	Benzo[a]pyrene	20.50	252	370356	8.28 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.82	276	196968	7.58 ug/mL	90
99)	Dibenzo[a,h]anthracene	22.89	278	203367	8.63 ug/mL	99
100)	Benzo[g,h,i]perylene	23.48	276	222680	8.15 ug/mL	95

(#) = qualifier out of range (m) = manual integration

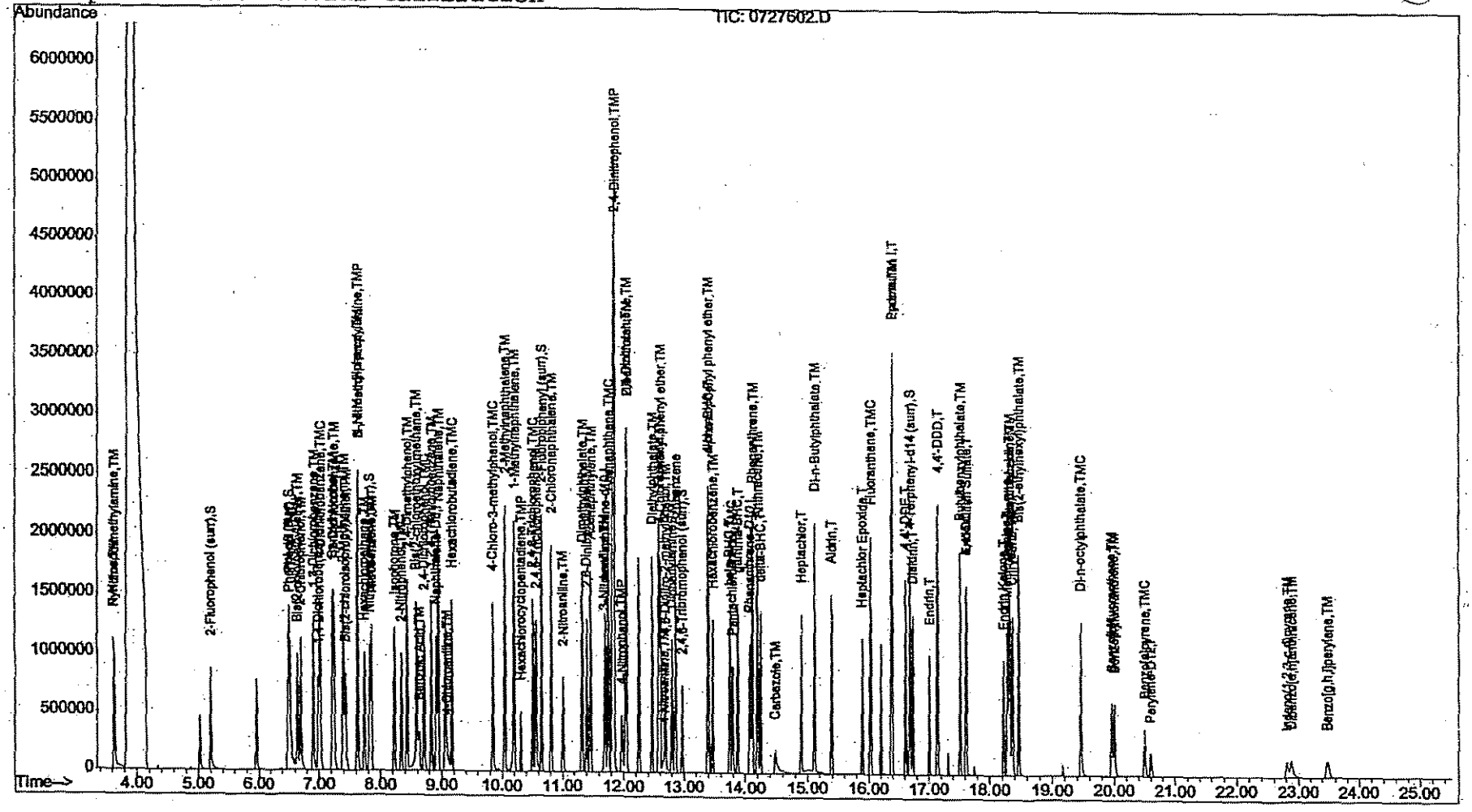
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727602.D
Acq On : 27 Jul 2005 8:15 am
Sample : SVCVS8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 27 9:11 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



0727602.D 8270.M Wed Jul 27 09:12:18 2005 ENV

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	134	-0.06
2	TM	Pyridine	0.901	0.893	0.9	113	0.00
3	TM	N-Nitrosodimethylamine	0.655	0.700	-6.9	149	0.00
4	TMC	Phenol	1.779	1.781	-0.1	136	-0.04
5	TM	Bis(2-chloroethyl)ether	1.409	1.325	6.0	130	-0.05
6	TM	2-Chlorophenol	1.358	1.291	4.9	132	-0.05
7	TM	Benzyl Alcohol	0.953	0.926	2.8	136	-0.05
8	TM	1,3-Dichlorobenzene	1.321	1.242	6.0	129	-0.06
9	TMC	1,4-Dichlorobenzene	1.350	1.283	5.0	130	-0.06
10	TM	1,2-Dichlorobenzene	1.227	1.155	5.9	130	-0.06
11	TM	2-Methylphenol	1.115	1.084	2.8	135	-0.05
12	TM	3-, 4-Methylphenol	1.622	1.573	3.0	135	-0.05
13	TM	Bis(2-chloroisopropyl)ether	1.614	1.555	3.7	134	-0.06
14	TMP	N-Nitrosodi-n-propylamine	0.847	0.849	-0.2	143	-0.06
15	TM	Hexachloroethane	0.526	0.509	3.2	136	-0.06
16	S	2-Fluorophenol (surr)	1.011	1.002	0.9	132	-0.03
17	S	Phenol-d6 (surr)	1.599	1.583	1.0	136	-0.04
18	I	Naphthalene-D8	1.000	1.000	0.0	129	-0.06
19	TM	Nitrobenzene	0.377	0.373	1.1	135	-0.06
20	TM	Isophorone	0.568	0.553	2.6	132	-0.05
21	TMC	2-Nitrophenol	0.185	0.174	5.9	132	-0.06
22	TM	2,4-Dimethylphenol	0.262	0.260	0.8	131	-0.05
23	TM	Benzoic Acid	0.152	0.195	-28.3#	172	0.00
24	TM	Bis(2-chloroethoxy)methane	0.379	0.361	4.7	130	-0.06
25	TMC	2,4-Dichlorophenol	0.274	0.271	1.1	134	-0.05
26	TM	1,2,4-Trichlorobenzene	0.286	0.269	5.9	128	-0.06
27	TM	Naphthalene	0.874	0.828	5.3	129	-0.06
28	TM	4-Chloroaniline	0.142	0.159	-12.0	185	-0.07
29	TMC	Hexachlorobutadiene	0.176	0.164	6.8	128	-0.06
30	TMC	4-Chloro-3-methylphenol	0.320	0.330	-3.1	141	-0.05
31	TM	2-Methylnaphthalene	0.636	0.610	4.1	130	-0.06
32	S	Nitrobenzene-d5 (surr)	0.141	0.140	0.7	136	-0.06
33	I	Acenaphthene-d10	1.000	1.000	0.0	129	-0.06
34	TMP	Hexachlorocyclopentadiene	0.111	0.157	-41.4#	223#	-0.06
35	TMC	2,4,6-Trichlorophenol	0.360	0.360	0.0	136	-0.06
36	TM	2,4,5-Trichlorophenol	0.365	0.390	-6.8	148	-0.06
37	TM	2-Chloronaphthalene	0.989	0.949	4.0	132	-0.06
38	TM	2-Nitroaniline	0.337	0.335	0.6	139	-0.05
39	TM	3-Nitroaniline	0.063	0.084	-33.3#	270#	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TM	1-Methylnaphthalene	0.984	0.918	6.7	126	-0.06
41	TM	Dimethylphthalate	1.144	1.110	3.0	132	-0.06
42	TM	Acenaphthylene	1.287	1.205	6.4	125	-0.06
43	TM	2,6-Dinitrotoluene	0.246	0.250	-1.6	137	-0.06
44	TMC	Acenaphthene	0.884	0.838	5.2	130	-0.06
45	TMP	2,4-Dinitrophenol	0.115	0.158	-37.4#	181	-0.05
46	TMP	4-Nitrophenol	0.146	0.189	-29.5#	185	-0.04
47	TM	Dibenzofuran	1.425	1.396	2.0	135	-0.06
48	TM	2,4-Dinitrotoluene	0.304	0.319	-4.9	143	-0.05
49	TM	Fluorene	1.056	1.053	0.3	137	-0.06
50	TM	Diethylphthalate	1.046	1.032	1.3	134	-0.06
51	TM	4-Chlorophenyl phenyl ether	0.553	0.537	2.9	130	-0.06
52	TM	4-Nitroaniline	0.117	0.132	-12.8	149	-0.05
53	S	2-Fluorobiphenyl (surr)	1.128	1.058	6.2	129	-0.06
54	S	2,4,6-Tribromophenol (surr)	0.118	0.128	-8.5	145	-0.06
55	I	Phenanthrene-D10	1.000	1.000	0.0	143	-0.06
56	TM	4,6-Dinitro-2-methylphenol	0.122	0.143	-17.2	174	-0.05
57	TMC	Diphenylamine	0.408	0.327	19.9	125	-0.06
58	TM	4-bromophenyl phenyl ether	0.219	0.196	10.5	135	-0.06
59	TM	Hexachlorobenzene	0.210	0.183	12.9	130	-0.06
60	TMC	Pentachlorophenol	0.139	0.141	-1.4	151	-0.06
61	TM	Phenanthrene	0.995	0.952	4.3	143	-0.06
62	TM	Carbazole	0.404	0.281	30.4#	115	-0.06
63	TM	Anthracene	0.921	0.887	3.7	145	-0.06
64		Azobenzene	0.865	0.793	8.3	139	-0.06
65	TM	Di-n-Butylphthalate	1.211	1.097	9.4	134	-0.06
66	TMC	Fluoranthene	1.007	0.972	3.5	145	-0.06
67	T	alpha-BHC	0.156	0.138	11.5	130	-0.06
68	T	beta-BHC	0.124	0.119	4.0	143	-0.05
69	T	gamma-BHC	0.128	0.119	7.0	135	-0.06
70	T	delta-BHC	0.116	0.112	3.4	140	-0.06
71	T	Heptachlor	0.150	0.146	2.7	144	-0.07
72	T	Aldrin	0.160	0.152	5.0	137	-0.07
73	T	Heptachlor Epoxide	0.055	0.050#	9.1	129	-0.06
74	T	Endosulfan I	0.040	0.038#	5.0	127	-0.06
75	T	4,4'-DDE	0.234	0.218	6.8	137	-0.06
76	T	Dieldrin	0.200	0.188	6.0	136	-0.07
77	T	Endrin	0.034	0.032#	5.9	144	-0.07
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.412	0.365	11.4	130	-0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.051	0.047#	7.8	128	-0.07
81	T	4,4'-DDT	0.318	0.290	8.8	138	-0.06
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.042	0.036#	14.3	118	-0.06
84	T	Methoxychlor	0.685	0.601	12.3	124	-0.07
85	I	Chrysene-D12	1.000	1.000	0.0	124	-0.06
86	TM	Pyrene	1.433	1.510	-5.4	143	-0.06
87	TM	Butylbenzylphthalate	0.700	0.695	0.7	131	-0.06
88	TM	Benzo[a]anthracene	1.261	1.201	4.8	124	-0.06
89	TM	3,3'-Dichlorobenzidine	0.193	0.146	24.4#	99	-0.06
90	TM	Chrysene	1.044	1.005	3.7	123	-0.06
91	TM	Bis(2-ethylhexyl)phthalate	0.935	0.915	2.1	130	-0.06
92	S	4-Terphenyl-d14 (surr)	0.991	1.022	-3.1	140	-0.06
93	I	Perylene-D12	1.000	1.000	0.0	94	-0.08
94	TMC	Di-n-octylphthalate	2.322	2.780	-19.7	117	-0.07
95	TM	Benzo[b]fluoranthene	1.355	1.408	-3.9	102	-0.07
96	TM	Benzo[k]fluoranthene	1.284	1.334	-3.9	100	-0.08
97	TMC	Benzo[a]pyrene	1.046	1.036	1.0	99	-0.08
98	TM	Indeno(1,2,3-c,d)pyrene	0.608	0.490	19.4	81	-0.12
99	TM	Dibenzo[a,h]anthracene	0.551	0.462	16.2	87	-0.12
100	TM	Benzo[g,h,i]perylene	0.639	0.572	10.5	88	-0.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pm 07.27.05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	192305	4.00 ug/mL	-0.06
18) Naphthalene-D8	8.89	136	771257	4.00 ug/mL	-0.06
33) Acenaphthene-d10	11.67	164	452317	4.00 ug/mL	-0.06
55) Phenanthrene-D10	14.05	188	699961	4.00 ug/mL	-0.06
85) Chrysene-D12	18.30	240	431962	4.00 ug/mL	-0.06
93) Perylene-D12	20.56	264	218159	4.00 ug/mL	-0.08
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.18	112	385360	7.93 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 79.30%	
17) Phenol-d6 (surr)	6.47	99	608885	7.92 ug/mL	-0.04
Spiked Amount 10.000			Recovery	= 79.20%	
32) Nitrobenzene-d5 (surr)	7.80	128	215883	7.96 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 79.60%	
53) 2-Fluorobiphenyl (surr)	10.62	172	956800	7.50 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 75.00%	
54) 2,4,6-Tribromophenol (surr	12.94	330	115431	8.68 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 86.80%	
92) 4-Terphenyl-d14 (surr)	16.66	244	883107	8.26 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 82.60%	
Target Compounds					Qvalue
2) Pyridine	3.61	79	343520	7.22 ug/mL#	60
3) N-Nitrosodimethylamine	3.61	74	269090	8.55 ug/mL	97
4) Phenol	6.49	94	685012	8.01 ug/mL	98
5) Bis(2-chloroethyl)ether	6.61	93	509726	7.53 ug/mL	98
6) 2-Chlorophenol	6.67	128	496693	7.61 ug/mL	97
7) Benzyl Alcohol	7.19	108	356306	7.77 ug/mL	99
8) 1,3-Dichlorobenzene	6.88	146	477660	7.52 ug/mL	99
9) 1,4-Dichlorobenzene	6.99	146	493534	7.60 ug/mL	96
10) 1,2-Dichlorobenzene	7.21	146	444245	7.53 ug/mL	98
11) 2-Methylphenol	7.36	107	416819	7.77 ug/mL	98
12) 3-, 4-Methylphenol	7.60	107	604971	7.76 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.40	45	598166	7.71 ug/mL	99
14) N-Nitrosodi-n-propylamine	7.60	70	326403	8.01 ug/mL	99
15) Hexachloroethane	7.71	117	195717	7.73 ug/mL	100
19) Nitrobenzene	7.83	77	576074	7.92 ug/mL	98
20) Isophorone	8.20	82	852670	7.79 ug/mL	99
21) 2-Nitrophenol	8.31	139	268486	7.51 ug/mL	95
22) 2,4-Dimethylphenol	8.41	122	401479	7.96 ug/mL	98
23) Benzoic Acid	8.62	122	300737	10.25 ug/mL	99
24) Bis(2-chloroethoxy)methane	8.55	93	556188	7.62 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25)	2,4-Dichlorophenol	8.68	162	418355	7.91	ug/mL	99
26)	1,2,4-Trichlorobenzene	8.81	180	415107	7.53	ug/mL	99
27)	Naphthalene	8.92	128	1277066	7.58	ug/mL	99
28)	4-Chloroaniline	9.05	127	244973	9.56	ug/mL	94
29)	Hexachlorobutadiene	9.14	225	253576	7.45	ug/mL	98
30)	4-Chloro-3-methylphenol	9.81	107	508461	8.23	ug/mL	95
31)	2-Methylnaphthalene	10.01	142	941103	7.67	ug/mL	98
34)	Hexachlorocyclopentadiene	10.28	237	142347	11.00	ug/mL	93
35)	2,4,6-Trichlorophenol	10.48	196	325358	7.98	ug/mL	99
36)	2,4,5-Trichlorophenol	10.53	196	353231	8.55	ug/mL	96
37)	2-Chloronaphthalene	10.78	162	858855	7.68	ug/mL	99
38)	2-Nitroaniline	10.97	65	302998	7.95	ug/mL	99
39)	3-Nitroaniline	11.65	138	76064	16.06	ug/mL	92
40)	1-Methylnaphthalene	10.17	142	830747	7.47	ug/mL	100
41)	Dimethylphthalate	11.30	163	1003880	7.76	ug/mL	98
42)	Acenaphthylene	11.44	152	1090262	7.49	ug/mL	99
43)	2,6-Dinitrotoluene	11.38	165	226533	8.14	ug/mL	99
44)	Acenaphthene	11.72	153	757770	7.58	ug/mL	98
45)	2,4-Dinitrophenol	11.83	184	142896	10.17	ug/mL#	83
46)	4-Nitrophenol	11.94	109	170718	10.37	ug/mL	95
47)	Dibenzofuran	12.01	168	1263006	7.84	ug/mL	99
48)	2,4-Dinitrotoluene	12.02	165	288409	8.38	ug/mL#	81
49)	Fluorene	12.55	166	952919	7.98	ug/mL	97
50)	Diethylphthalate	12.44	149	934012	7.89	ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.58	204	485450	7.77	ug/mL	97
52)	4-Nitroaniline	12.63	138	119606m	9.06	ug/mL	
56)	4,6-Dinitro-2-methylphenol	12.67	198	200851	9.42	ug/mL	99
57)	Diphenylamine	12.78	169	458009	6.41	ug/mL	96
58)	4-bromophenyl phenyl ether	13.36	248	274010	7.14	ug/mL	97
59)	Hexachlorobenzene	13.44	284	255522	6.96	ug/mL	99
60)	Pentachlorophenol	13.77	266	197945	8.17	ug/mL	95
61)	Phenanthrene	14.09	178	1332648	7.65	ug/mL	100
62)	Carbazole	14.45	167	393547	5.57	ug/mL	99
63)	Anthracene	14.17	178	1241418	7.70	ug/mL	99
64)	Azobenzene	12.83	77	1109940	7.33	ug/mL	100
65)	Di-n-Butylphthalate	15.08	149	1535491	7.24	ug/mL	100
66)	Fluoranthene	16.00	202	1360915	7.72	ug/mL	98
67)	alpha-BHC	13.37	183	193037	7.06	ug/mL	98
68)	beta-BHC	13.72	181	166493	7.67	ug/mL	100
69)	gamma-BHC	13.85	183	166574	7.41	ug/mL	98
70)	delta-BHC	14.22	183	156982	7.76	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

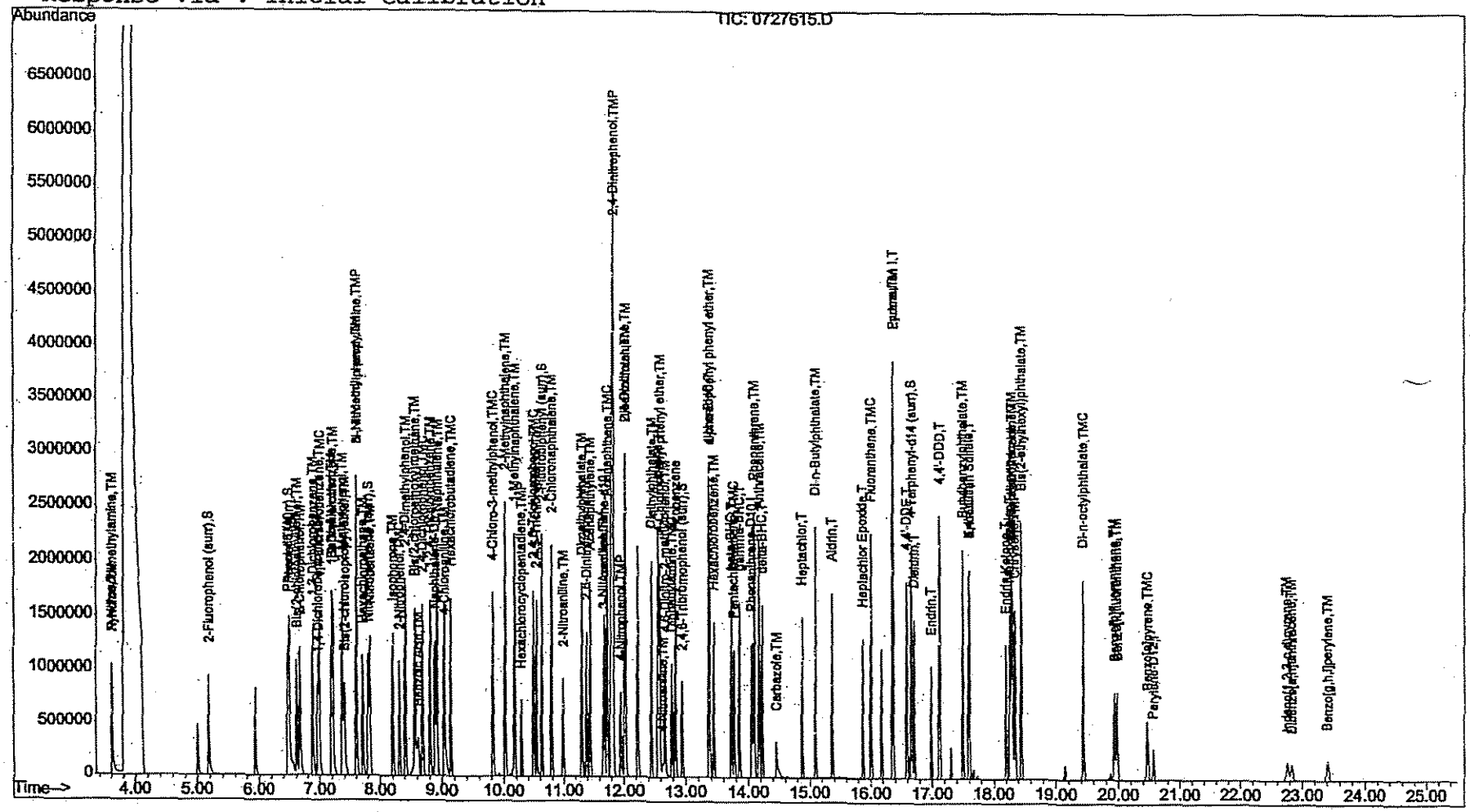
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.86	100	204780	7.81 ug/mL	98
72)	Aldrin	15.36	66	212416	7.57 ug/mL	98
73)	Heptachlor Epoxide	15.87	353	69557	7.25 ug/mL	98
74)	Endosulfan I	16.36	195	53368	7.55 ug/mL	96
75)	4,4'-DDE	16.58	246	304615	7.44 ug/mL	100
76)	Dieldrin	16.70	79	263668	7.54 ug/mL	100
77)	Endrin	16.98	263	45037	7.51 ug/mL	96
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.11	235	511146	7.10 ug/mL	100
80)	Endosulfan Sulfate	17.58	272	65603	7.31 ug/mL	98
81)	4,4'-DDT	17.59	235	406588	7.31 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.20	317	51052	6.87 ug/mL	98
84)	Methoxychlor	18.25	227	840973	7.02 ug/mL#	1
86)	Pyrene	16.35	202	1304725	8.43 ug/mL	99
87)	Butylbenzylphthalate	17.48	149	600833	7.95 ug/mL	97
88)	Benzo[a]anthracene	18.28	228	1037231	7.61 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.28	252	125985	6.06 ug/mL	92
90)	Chrysene	18.34	228	868033	7.70 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.44	149	790625	7.83 ug/mL	98
94)	Di-n-octylphthalate	19.42	149	1213106	9.58 ug/mL	100
95)	Benzo[b]fluoranthene	19.92	252	614526	8.31 ug/mL	98
96)	Benzo[k]fluoranthene	19.97	252	582059	8.31 ug/mL	98
97)	Benzo[a]pyrene	20.46	252	451980	7.92 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.75	276	213982	6.45 ug/mL	95
99)	Dibenzo[a,h]anthracene	22.82	278	201554	6.70 ug/mL	98
100)	Benzo[g,h,i]perylene	23.41	276	249522	7.16 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



8270-BN QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727622.D Vial: 22
Acq On : 27 Jul 2005 8:58 pm Operator: MRC
Sample : PB3303 x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:05 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 08-01-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	155647	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.88	136	633710	4.00	ug/mL	-0.06
33) Acenaphthene-d10	11.67	164	362995	4.00	ug/mL	-0.06
55) Phenanthrene-D10	14.04	188	569404	4.00	ug/mL	-0.06
85) Chrysene-D12	18.29	240	307176	4.00	ug/mL	-0.07
93) Perylene-D12	20.56	264	176658	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.19	112	435923	11.09	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	110.90%	
17) Phenol-d6 (surr)	6.47	99	691159	11.11	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	111.10%	
32) Nitrobenzene-d5 (surr)	7.80	128	255290	11.45	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	114.50%	
53) 2-Fluorobiphenyl (surr)	10.62	172	1166738	11.40	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	114.00%	
54) 2,4,6-Tribromophenol (surr	12.94	330	133606	12.52	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	125.20%	
92) 4-Terphenyl-d14 (surr)	16.65	244	992432m	13.05	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	130.50%	

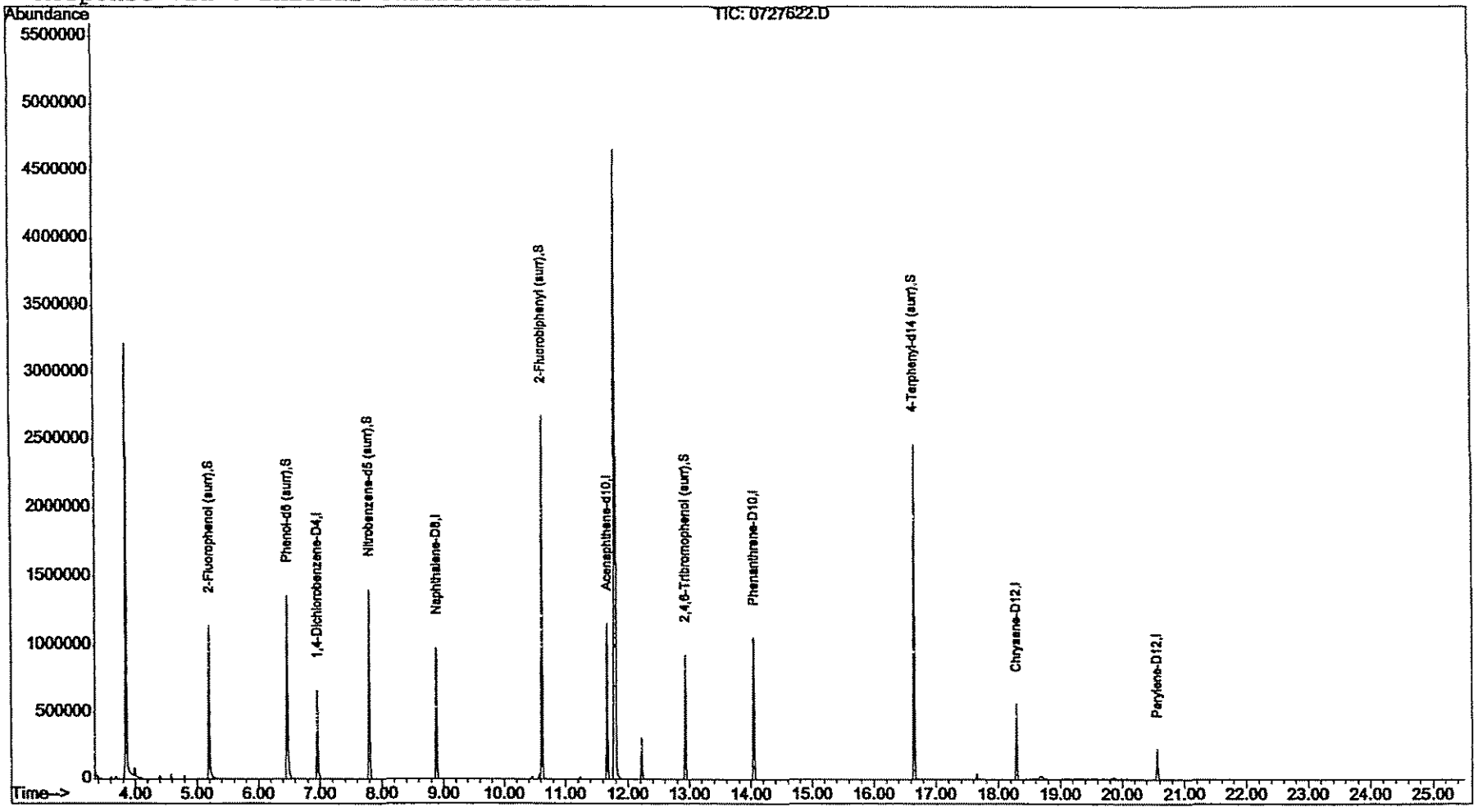
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727622.D Vial: 22
Acq On : 27 Jul 2005 8:58 pm Operator: MRC
Sample : PB3303 x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:05 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727623.D Vial: 23
Acq On : 27 Jul 2005 9:33 pm Operator: MRC
Sample : LCS3303 x1) Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 08.01.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	159483	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.89	136	642911	4.00	ug/mL	-0.05
33) Acenaphthene-d10	11.68	164	372595	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.06	188	589109	4.00	ug/mL	-0.05
85) Chrysene-D12	18.30	240	297395	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	156259	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	442219	10.98	ug/mL	0.00
Spiked Amount 10.000			Recovery = 109.80%			
17) Phenol-d6 (surr)	6.48	99	724725	11.37	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 113.70%			
32) Nitrobenzene-d5 (surr)	7.80	128	254256	11.24	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 112.40%			
53) 2-Fluorobiphenyl (surr)	10.63	172	1159841	11.04	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 110.40%			
54) 2,4,6-Tribromophenol (surr	12.95	330	138744	12.66	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 126.60%			
92) 4-Terphenyl-d14 (surr)	16.66	244	1074746	14.59	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 145.90%			
Target Compounds						Qvalue
2) Pyridine	3.59	79	385947	9.53	ug/mL#	61
3) N-Nitrosodimethylamine	3.59	74	313862	12.02	ug/mL#	61
4) Phenol	6.51	94	745030	10.50	ug/mL	88
5) Bis(2-chloroethyl)ether	6.62	93	647918	11.54	ug/mL	98
6) 2-Chlorophenol	6.67	128	550902	10.17	ug/mL	98
7) Benzyl Alcohol	7.20	108	387484	10.19	ug/mL	97
8) 1,3-Dichlorobenzene	6.89	146	576270	10.94	ug/mL	98
9) 1,4-Dichlorobenzene	6.99	146	587507	10.91	ug/mL	99
10) 1,2-Dichlorobenzene	7.22	146	531456	10.87	ug/mL	100
11) 2-Methylphenol	7.38	107	469880	10.57	ug/mL	97
12) 3-, 4-Methylphenol	7.62	107	1182352	18.28	ug/mL#	83
13) Bis(2-chloroisopropyl)ethe	7.41	45	718843	11.17	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.61	70	432919	12.81	ug/mL	96
15) Hexachloroethane	7.71	117	218623	10.42	ug/mL	97
19) Nitrobenzene	7.84	77	700673	11.56	ug/mL	97
20) Isophorone	8.21	82	1228958	13.47	ug/mL	99
21) 2-Nitrophenol	8.32	139	303959	10.20	ug/mL	95
22) 2,4-Dimethylphenol	8.42	122	477546	11.36	ug/mL	98
23) Benzoic Acid	8.60	122	183301	7.50	ug/mL	97
24) Bis(2-chloroethoxy)methane	8.56	93	679338	11.16	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727623.D Vial: 23
Acq On : 27 Jul 2005 9:33 pm Operator: MRC
Sample : LCS3303 x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Sep 26 15:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25)	2,4-Dichlorophenol	8.69	162	470380	10.67	ug/mL	98
26)	1,2,4-Trichlorobenzene	8.81	180	499184	10.86	ug/mL	98
27)	Naphthalene	8.92	128	1584617	11.29	ug/mL	100
28)	4-Chloroaniline	9.03	127	331586	15.14	ug/mL#	89
29)	Hexachlorobutadiene	9.14	225	306182	10.79	ug/mL	98
30)	4-Chloro-3-methylphenol	9.82	107	576535	11.20	ug/mL	96
31)	2-Methylnaphthalene	10.02	142	1025168	10.02	ug/mL	100
34)	Hexachlorocyclopentadiene	10.28	237	105853	10.04	ug/mL	92
35)	2,4,6-Trichlorophenol	10.48	196	360794	10.75	ug/mL	98
36)	2,4,5-Trichlorophenol	10.54	196	381632	11.21	ug/mL	98
37)	2-Chloronaphthalene	10.79	162	1030437	11.18	ug/mL	98
38)	2-Nitroaniline	10.98	65	382835	12.19	ug/mL	95
39)	3-Nitroaniline	11.65	138	195663	32.82	ug/mL#	94
40)	1-Methylnaphthalene	10.17	142	993804	10.84	ug/mL	100
41)	Dimethylphthalate	11.31	163	1202563	11.29	ug/mL	99
42)	Acenaphthylene	11.44	152	1542965	12.87	ug/mL	99
43)	2,6-Dinitrotoluene	11.39	165	278456	12.14	ug/mL	98
44)	Acenaphthene	11.73	153	947356	11.51	ug/mL	99
45)	2,4-Dinitrophenol	11.83	184	155777	13.18	ug/mL	89
46)	4-Nitrophenol	11.95	109	205528	15.16	ug/mL#	77
47)	Dibenzofuran	12.02	168	1393834	10.50	ug/mL	97
48)	2,4-Dinitrotoluene	12.03	165	356555	12.57	ug/mL#	78
49)	Fluorene	12.56	166	1179657	11.99	ug/mL	98
50)	Diethylphthalate	12.45	149	1154122	11.84	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.59	204	581771	11.30	ug/mL	94
52)	4-Nitroaniline	12.63	138	195023	17.94	ug/mL	94
56)	4,6-Dinitro-2-methylphenol	12.68	198	227102	12.66	ug/mL	98
57)	Diphenylamine	12.79	169	941489	15.66	ug/mL	94
58)	4-bromophenyl phenyl ether	13.37	248	331766	10.28	ug/mL	93
59)	Hexachlorobenzene	13.45	284	313068	10.13	ug/mL	98
60)	Pentachlorophenol	13.77	266	203726	9.98	ug/mL	95
61)	Phenanthrene	14.09	178	1580014	10.78	ug/mL	100
63)	Anthracene	14.17	178	1604900	11.83	ug/mL	100
64)	Azobenzene	12.84	77	1321500	10.38	ug/mL	99
65)	Di-n-Butylphthalate	15.09	149	1886723	10.58	ug/mL	100
66)	Fluoranthene	16.00	202	1684794	11.36	ug/mL	98
86)	Pyrene	16.36	202	1471303	13.81	ug/mL	99
87)	Butylbenzylphthalate	17.49	149	678663	13.04	ug/mL	94
88)	Benzo[a]anthracene	18.28	228	1003308	10.70	ug/mL	99
89)	3,3'-Dichlorobenzidine	18.28	252	256467	17.92	ug/mL	91
90)	Chrysene	18.34	228	934006	12.04	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727623.D Vial: 23
Acq On : 27 Jul 2005 9:33 pm Operator: MRC
Sample : LCS3303 x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.44	149	810584	11.66 ug/mL	100
94)	Di-n-octylphthalate	19.42	149	1101667	12.15 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	616234	11.64 ug/mL	99
96)	Benzo[k]fluoranthene	19.97	252	653936	13.04 ug/mL	98
97)	Benzo[a]pyrene	20.47	252	521418	12.76 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	286560	12.07 ug/mL	95
99)	Dibenzo[a,h]anthracene	22.83	278	273683	12.70 ug/mL	98
100)	Benzo[g,h,i]perylene	23.41	276	310850	12.45 ug/mL#	89

(#) = qualifier out of range (m) = manual integration

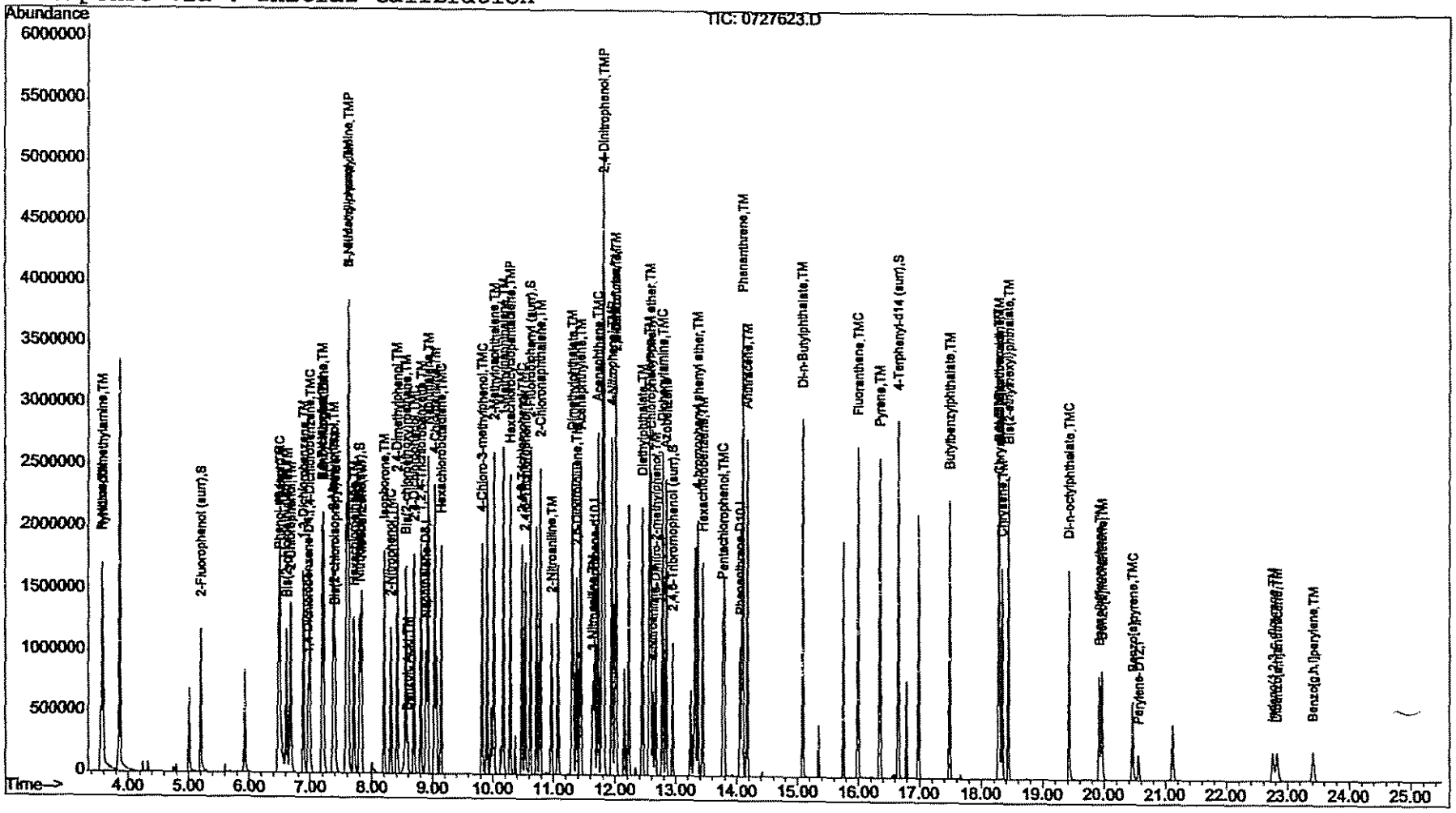
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727623.D
Acq On : 27 Jul 2005 9:33 pm
Sample : LCS3303 x1
Misc : 8270 [3540-3303]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:06 2005

Vial: 23
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727624.D Vial: 24
Acq On : 27 Jul 2005 10:07 pm Operator: MRC
Sample : G161-2081-3I MS x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 08/01/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	174022	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.89	136	697971	4.00	ug/mL	-0.05
33) Acenaphthene-d10	11.68	164	400880	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.05	188	647323	4.00	ug/mL	-0.05
85) Chrysene-D12	18.30	240	359148	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	206583	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.27	112	473995	10.78	ug/mL	0.06
Spiked Amount 10.000			Recovery = 107.80%			
17) Phenol-d6 (surr)	6.66	99	790729m	11.37	ug/mL	0.15
Spiked Amount 10.000			Recovery = 113.70%			
32) Nitrobenzene-d5 (surr)	7.80	128	252312	10.27	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 102.70%			
53) 2-Fluorobiphenyl (surr)	10.62	172	1104121	9.76	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 97.60%			
54) 2,4,6-Tribromophenol (surr	12.95	330	132496	11.24	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 112.40%			
92) 4-Terphenyl-d14 (surr)	16.65	244	1052611	11.84	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 118.40%			

Target Compounds						Qvalue
2) Pyridine	3.60	79	304493	7.08	ug/mL#	55
3) N-Nitrosodimethylamine	3.60	74	317244	11.14	ug/mL#	1
4) Phenol	6.62	94	844281m	10.91	ug/mL	
5) Bis(2-chloroethyl)ether	6.62	93	631670	10.31	ug/mL	99
6) 2-Chlorophenol	6.71	128	584746	9.90	ug/mL	97
7) Benzyl Alcohol	7.27	108	412542m	9.95	ug/mL	
8) 1,3-Dichlorobenzene	6.89	146	582604	10.14	ug/mL	99
9) 1,4-Dichlorobenzene	7.00	146	603606	10.28	ug/mL	97
10) 1,2-Dichlorobenzene	7.21	146	552743	10.36	ug/mL	96
11) 2-Methylphenol	7.43	107	528035	10.88	ug/mL	96
12) 3-, 4-Methylphenol	7.71	107	1264140	17.91	ug/mL#	86
13) Bis(2-chloroisopropyl)ethe	7.40	45	744369	10.60	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.61	70	454410	12.33	ug/mL	99
15) Hexachloroethane	7.71	117	214081	9.35	ug/mL	93
19) Nitrobenzene	7.83	77	724833	11.01	ug/mL	99
20) Isophorone	8.22	82	1269077	12.81	ug/mL	99
21) 2-Nitrophenol	8.32	139	316075	9.77	ug/mL	97
22) 2,4-Dimethylphenol	8.46	122	493355	10.81	ug/mL	99
23) Benzoic Acid	8.67	122	337339	12.71	ug/mL	90
24) Bis(2-chloroethoxy)methane	8.56	93	700871	10.61	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727624.D Vial: 24
Acq On : 27 Jul 2005 10:07 pm Operator: MRC
Sample : G161-2081-3I MS x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	491424	10.27 ug/mL	98
26) 1,2,4-Trichlorobenzene	8.81	180	501744	10.05 ug/mL	98
27) Naphthalene	8.92	128	1598691	10.49 ug/mL	99
28) 4-Chloroaniline	9.07	127	354836	14.93 ug/mL#	89
29) Hexachlorobutadiene	9.15	225	306439	9.95 ug/mL	98
30) 4-Chloro-3-methylphenol	9.83	107	604350	10.81 ug/mL	96
31) 2-Methylnaphthalene	10.02	142	1052503	9.48 ug/mL	99
34) Hexachlorocyclopentadiene	10.29	237	130900	11.37 ug/mL	93
35) 2,4,6-Trichlorophenol	10.50	196	372803	10.32 ug/mL	95
36) 2,4,5-Trichlorophenol	10.54	196	393534	10.75 ug/mL	96
37) 2-Chloronaphthalene	10.79	162	1045357	10.54 ug/mL	98
38) 2-Nitroaniline	10.99	65	402284	11.91 ug/mL	96
39) 3-Nitroaniline	11.65	138	190257	30.96 ug/mL	96
40) 1-Methylnaphthalene	10.17	142	1018534	10.33 ug/mL	100
41) Dimethylphthalate	11.31	163	1263518	11.02 ug/mL	99
42) Acenaphthylene	11.45	152	1578167	12.23 ug/mL	100
43) 2,6-Dinitrotoluene	11.39	165	281418	11.40 ug/mL	93
44) Acenaphthene	11.73	153	956762	10.80 ug/mL	98
45) 2,4-Dinitrophenol	11.83	184	169624	13.33 ug/mL	92
46) 4-Nitrophenol	11.96	109	221940	15.21 ug/mL	88
47) Dibenzofuran	12.01	168	1429086	10.00 ug/mL	98
48) 2,4-Dinitrotoluene	12.03	165	378372	12.40 ug/mL#	79
49) Fluorene	12.56	166	1203360	11.37 ug/mL	98
50) Diethylphthalate	12.45	149	1179898	11.25 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.58	204	592996	10.71 ug/mL	93
52) 4-Nitroaniline	12.63	138	195644	16.73 ug/mL	92
56) 4,6-Dinitro-2-methylphenol	12.67	198	236340	11.99 ug/mL	92
57) Diphenylamine	12.78	169	850612	12.88 ug/mL	96
58) 4-bromophenyl phenyl ether	13.36	248	336773	9.49 ug/mL	99
59) Hexachlorobenzene	13.44	284	322340	9.50 ug/mL	99
60) Pentachlorophenol	13.77	266	218942	9.77 ug/mL	95
61) Phenanthrene	14.09	178	1617300	10.04 ug/mL	99
63) Anthracene	14.18	178	1649222	11.06 ug/mL	99
64) Azobenzene	12.84	77	1342735	9.59 ug/mL	99
65) Di-n-Butylphthalate	15.09	149	1938759	9.89 ug/mL	100
66) Fluoranthene	16.00	202	1731002	10.62 ug/mL	99
86) Pyrene	16.35	202	1738757	13.51 ug/mL	100
87) Butylbenzylphthalate	17.49	149	709825	11.29 ug/mL	97
88) Benzo[a]anthracene	18.28	228	1102721	9.74 ug/mL	99
89) 3,3'-Dichlorobenzidine	18.28	252	266935	15.44 ug/mL	93
90) Chrysene	18.34	228	1043010	11.13 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727624.D Vial: 24
Acq On : 27 Jul 2005 10:07 pm Operator: MRC
Sample : G161-2081-3I MS x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.44	149	863164	10.28 ug/mL	99
94)	Di-n-octylphthalate	19.43	149	1209282	10.09 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	772897	11.04 ug/mL	97
96)	Benzo[k]fluoranthene	19.97	252	785878	11.85 ug/mL	99
97)	Benzo[a]pyrene	20.46	252	654103	12.11 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	387737	12.35 ug/mL	91
99)	Dibenzo[a,h]anthracene	22.83	278	386392	13.57 ug/mL	95
100)	Benzo[g,h,i]perylene	23.42	276	416248	12.61 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

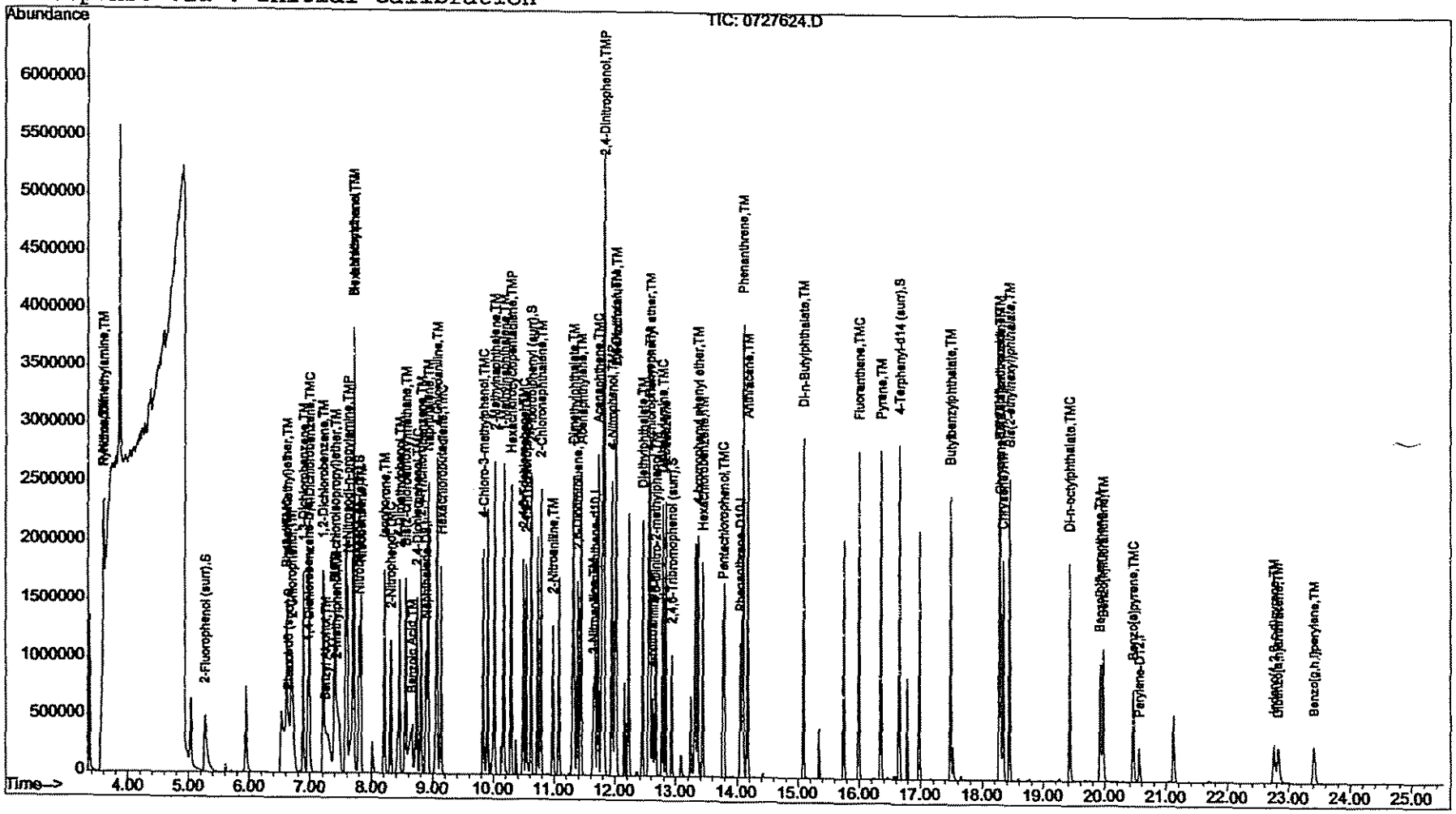
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727624.D
Acq On : 27 Jul 2005 10:07 pm
Sample : G161-2081-3I MS x1
Misc : 8270 [3540-3303]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005

Vial: 24
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



0727624.D 8270.M Mon Aug 01 09:47:53 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727625.D Vial: 25
Acq On : 27 Jul 2005 10:42 pm Operator: MRC
Sample : G161-2081-3J MSD x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 08-01-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	155155	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.89	136	632636	4.00	ug/mL	-0.05
33) Acenaphthene-d10	11.68	164	353686	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.05	188	568299	4.00	ug/mL	-0.05
85) Chrysene-D12	18.30	240	285247	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	140190	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.20	112	421805	10.76	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 107.60%			
17) Phenol-d6 (surr)	6.49	99	685779	11.06	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 110.60%			
32) Nitrobenzene-d5 (surr)	7.80	128	241281	10.84	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 108.40%			
53) 2-Fluorobiphenyl (surr)	10.62	172	1052044	10.55	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 105.50%			
54) 2,4,6-Tribromophenol (surr	12.95	330	124815	12.00	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 120.00%			
92) 4-Terphenyl-d14 (surr)	16.65	244	967793	13.70	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 137.00%			
Target Compounds						Qvalue
2) Pyridine	3.59	79	278406	7.24	ug/mL#	64
3) N-Nitrosodimethylamine	3.59	74	333431	13.13	ug/mL	96
4) Phenol	6.51	94	722788	10.47	ug/mL#	79
5) Bis(2-chloroethyl)ether	6.62	93	512337	9.38	ug/mL	97
6) 2-Chlorophenol	6.67	128	530021	10.06	ug/mL	99
7) Benzyl Alcohol	7.20	108	368092	9.95	ug/mL	94
8) 1,3-Dichlorobenzene	6.89	146	534721	10.44	ug/mL	99
9) 1,4-Dichlorobenzene	6.99	146	546364	10.43	ug/mL	99
10) 1,2-Dichlorobenzene	7.21	146	497408	10.45	ug/mL	96
11) 2-Methylphenol	7.38	107	446541	10.32	ug/mL	98
12) 3-, 4-Methylphenol	7.62	107	1115855	17.73	ug/mL#	86
13) Bis(2-chloroisopropyl)ethe	7.41	45	670630	10.71	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.60	70	409349	12.45	ug/mL	98
15) Hexachloroethane	7.71	117	200877	9.84	ug/mL	97
19) Nitrobenzene	7.83	77	658405	11.04	ug/mL	96
20) Isophorone	8.20	82	1145007	12.76	ug/mL	100
21) 2-Nitrophenol	8.31	139	278106	9.49	ug/mL	93
22) 2,4-Dimethylphenol	8.41	122	445428	10.77	ug/mL	99
23) Benzoic Acid	8.63	122	303381	12.61	ug/mL	100
24) Bis(2-chloroethoxy)methane	8.56	93	635837	10.62	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727625.D Vial: 25
Acq On : 27 Jul 2005 10:42 pm Operator: MRC
Sample : G161-2081-3J MSD x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.69	162	438617	10.11 ug/mL	98
26)	1,2,4-Trichlorobenzene	8.81	180	453103	10.02 ug/mL	97
27)	Naphthalene	8.92	128	1459232	10.56 ug/mL	99
28)	4-Chloroaniline	9.03	127	373971	17.26 ug/mL	91
29)	Hexachlorobutadiene	9.15	225	282418	10.12 ug/mL	97
30)	4-Chloro-3-methylphenol	9.82	107	539210	10.64 ug/mL	96
31)	2-Methylnaphthalene	10.02	142	948296	9.42 ug/mL	99
34)	Hexachlorocyclopentadiene	10.29	237	118703	11.66 ug/mL	91
35)	2,4,6-Trichlorophenol	10.49	196	330732	10.38 ug/mL	94
36)	2,4,5-Trichlorophenol	10.53	196	353682	10.95 ug/mL	99
37)	2-Chloronaphthalene	10.79	162	941444	10.76 ug/mL	98
38)	2-Nitroaniline	10.98	65	352712	11.83 ug/mL	95
39)	3-Nitroaniline	11.65	138	196231	33.87 ug/mL	98
40)	1-Methylnaphthalene	10.17	142	925263	10.64 ug/mL	99
41)	Dimethylphthalate	11.31	163	1119162	11.07 ug/mL	100
42)	Acenaphthylene	11.44	152	1416233	12.44 ug/mL	100
43)	2,6-Dinitrotoluene	11.39	165	257094	11.81 ug/mL	98
44)	Acenaphthene	11.73	153	858531	10.99 ug/mL	98
45)	2,4-Dinitrophenol	11.83	184	147455	13.14 ug/mL	95
46)	4-Nitrophenol	11.95	109	183876	14.29 ug/mL	84
47)	Dibenzofuran	12.01	168	1276506	10.13 ug/mL	96
48)	2,4-Dinitrotoluene	12.03	165	339003	12.59 ug/mL#	73
49)	Fluorene	12.56	166	1085603	11.63 ug/mL	98
50)	Diethylphthalate	12.45	149	1048925	11.34 ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.58	204	534157	10.93 ug/mL	95
52)	4-Nitroaniline	12.62	138	183937	17.83 ug/mL	95
56)	4,6-Dinitro-2-methylphenol	12.67	198	207571	11.99 ug/mL	99
57)	Diphenylamine	12.78	169	846649	14.60 ug/mL	97
58)	4-bromophenyl phenyl ether	13.36	248	302416	9.71 ug/mL	99
59)	Hexachlorobenzene	13.44	284	288595	9.68 ug/mL	99
60)	Pentachlorophenol	13.77	266	182785	9.29 ug/mL	95
61)	Phenanthrene	14.09	178	1460488	10.33 ug/mL	98
63)	Anthracene	14.17	178	1470121	11.23 ug/mL	99
64)	Azobenzene	12.84	77	1205954	9.82 ug/mL	99
65)	Di-n-Butylphthalate	15.09	149	1720642	10.00 ug/mL	100
66)	Fluoranthene	16.00	202	1548068	10.82 ug/mL	98
86)	Pyrene	16.35	202	1531756	14.98 ug/mL	98
87)	Butylbenzylphthalate	17.49	149	614829	12.32 ug/mL	99
88)	Benzo[a]anthracene	18.28	228	906941	10.08 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.28	252	213626	15.56 ug/mL	88
90)	Chrysene	18.34	228	849925	11.42 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727625.D Vial: 25
Acq On : 27 Jul 2005 10:42 pm Operator: MRC
Sample : G161-2081-3J MSD x1 Inst : MSD6
Misc : 8270 [3540-3303] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.44	149	756085	11.34 ug/mL	100
94)	Di-n-octylphthalate	19.42	149	1018995	12.52 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	561302	11.82 ug/mL	100
96)	Benzo[k]fluoranthene	19.97	252	550889	12.24 ug/mL	96
97)	Benzo[a]pyrene	20.46	252	441140	12.03 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	227963	10.70 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.83	278	215130	11.13 ug/mL	96
100)	Benzo[g,h,i]perylene	23.41	276	238857	10.67 ug/mL	94

(#) = qualifier out of range (m) = manual integration

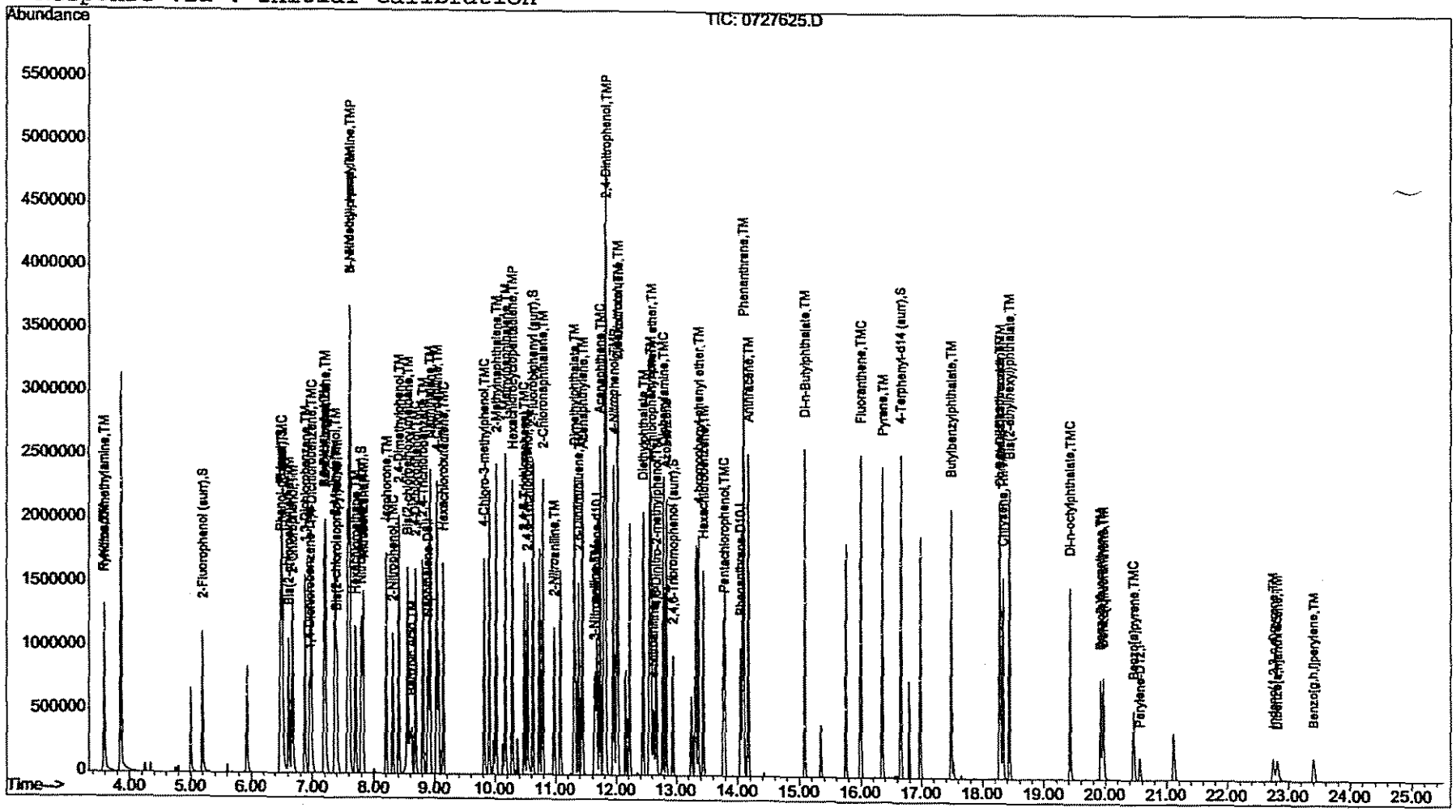
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727625.D
Acq On : 27 Jul 2005 10:42 pm
Sample : G161-2081-3J MSD x1
Misc : 8270 [3540-3303]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:08 2005

Vial: 25
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



8270-BN Prep, Standard, Run Logs

Prep Report for Batch 3303 (8270/3540/SOIL) on 2005-07-26

Sample ID (GCCODE)	EXT	InitWt	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	Analyst
G122-2625-10C (145490)		32.50			8270SRSV02W20C	1.0	10.0	CO196	eaw
G122-2625-2C (145486)		33.03			8270SRSV03W20A	1.0	10.0	CO196	eaw
G122-2625-4C (145487)		33.43			8270SRSV03W20A	1.0	10.0	CO196	eaw
G122-2625-6C (145488)		32.13			8270SRSV03W20A	1.0	10.0	CO196	eaw
G122-2625-8C (145489)		33.73			8270SRSV03W20A	1.0	10.0	CO196	eaw
G161-2078-11L (145485)		32.33			8270SRSV03W20A	1.0	10.0	CO196	eaw
G161-2081-1H (145491)		32.91			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-2H (145492)		34.40			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-3H (145493)		33.49			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-3I (145494)	MS	32.70	8270SVMS01W14E	1.0	8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-3J (145495)	MSD	32.20	8270SVMS01W14E	1.0	8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-4E (145496)		33.50			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-4F (145497)	DUP	32.97			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-5E (145498)		32.70			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-6E (145499)		32.14			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-7E (145500)		33.83			8270SRSV02W20C	1.0	10.0	CO196	eaw
G161-2081-8F (145501)		33.45			8270SRSV02W20C	1.0	10.0	CO196	eaw
G414-58-1I (145480)		35.93			8270SRSV03W20A	0.5	5.0	CO196	eaw
G414-58-2I (145481)		35.30			8270SRSV03W20A	0.5	5.0	CO196	eaw
G414-58-4K (145482)		39.40			8270SRSV03W20A	0.5	5.0	CO196	eaw
G414-58-5I (145483)		39.39			8270SRSV03W20A	0.5	5.0	CO196	eaw
G414-58-6M (145484)		38.14			8270SRSV03W20A	0.5	5.0	CO196	eaw
LCS3303	LCS	32.0	8270SVMS01W14E	1.0	8270SRSV02W20C	1.0	10.0	CO196	eaw
PB3303	PB	32.0			8270SRSV03W20A	1.0	10.0	CO196	eaw

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072105

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0721601.D	DFTPP 50ng	7/21/2005 8:54	OK			MRC	
0721602.D	SVCAL1	7/21/2005 9:18				MRC	
0721603.D	SVCAL2	7/21/2005 9:52				MRC	
0721604.D	SVCAL4	7/21/2005 10:25				MRC	
0721605.D	SVCAL6	7/21/2005 11:00	8270			MRC	
0721606.D	SVCAL8	7/21/2005 11:34	GOOD			MRC	
0721607.D	SVCAL12	7/21/2005 12:08				MRC	
0721608.D	SVCAL24	7/21/2005 12:42				MRC	
0721609.D	SVCAL48	7/21/2005 13:16				MRC	
0721611.D	DFTPP 50ng	7/21/2005 14:14	OK			MRC	
0721612.D	SVCVS8	7/21/2005 14:36	OK			MRC	
0721613.D	SVCVS24	7/21/2005 15:11	OK			MRC	
0721614.D	PB3011 x1	7/21/2005 15:45		OK		MRC	
0721615.D	PB3152 x1	7/21/2005 16:19				MRC	
0721616.D	G414-52-1B x1	7/21/2005 16:53			NO	MRC	
0721617.D	G414-52-2B x1	7/21/2005 17:27				MRC	
0721618.D	G414-52-1F x1	7/21/2005 18:01			OK	MRC	
0721619.D	G414-52-2F x1	7/21/2005 18:36			NO	MRC	
0721620.D	PB3275 x1	7/21/2005 19:09			OK	MRC	
0721621.D	LCS3275 x1	7/21/2005 19:43				MRC	

Analyst: MC

Page Number: 1901

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0727601.D	DFTPP 50ng	7/27/2005 7:53	OK			MRC	
0727602.D	SVCVS8	7/27/2005 8:15	OK			MRC	
0727603.D	SVCVS24	7/27/2005 8:49	OK			MRC	
0727604.D	G161-2078-11L x1	7/27/2005 9:23		OK	OK	MRC	
0727605.D	G161-2081-1H x1	7/27/2005 9:57		↓	↓	MRC	
0727606.D	G161-2081-2H x1	7/27/2005 10:31		↓	↓	MRC	
0727607.D	G161-2081-3H x1	7/27/2005 11:05		↓	↓	MRC	
0727608.D	G161-2081-4E x1	7/27/2005 11:39		↓	↓	MRC	
0727609.D	G161-2081-5E x1	7/27/2005 12:13		↓	↓	MRC	
0727610.D	G161-2081-6E x1	7/27/2005 12:48		↓	↓	MRC	
0727611.D	G161-2081-7E x1	7/27/2005 13:22		↓	↓	MRC	
0727612.D	G161-2081-8F x1	7/27/2005 13:56		↓	↓	MRC	
0727613.D	G161-2080-1G x1	7/27/2005 14:31		↓	↓	MRC	
0727614.D	DFTPP 50ng	7/27/2005 16:35	OK			MRC	
0727615.D	SVCVS8	7/27/2005 16:58	OK			MRC	
0727616.D	SVCVS24	7/27/2005 17:32	OK			MRC	
0727617.D	G414-58-1I x1	7/27/2005 18:07		OK	NO	MRC	CONFIRMS
0727618.D	G414-58-2I x1	7/27/2005 18:41		↓	↓	MRC	↓
0727619.D	G414-58-4K x1	7/27/2005 19:16		↓	↓	MRC	↓
0727620.D	G414-58-5I x1	7/27/2005 19:49		↓	↓	MRC	↓

Analyst: MC

Page Number: 1907

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0727621.D	G414-58-6M x1	7/27/2005 20:23		OK	NO	MRC	CONFIRMS
0727622.D	PB3303 x1	7/27/2005 20:58			OK	MRC	
0727623.D	LCS3303 x1	7/27/2005 21:33				MRC	
0727624.D	G161-2081-3I MS x1	7/27/2005 22:07				MRC	
0727625.D	G161-2081-3J MSD x1	7/27/2005 22:42				MRC	
0727626.D	G161-2081-4F DUP x1	7/27/2005 23:17				MRC	
0727627.D	PB3298 x1	7/27/2005 23:52				MRC	
0727628.D	LCS3298 x1	7/28/2005 0:26				MRC	
0727629.D	G111-769-1G MS x1	7/28/2005 1:00				MRC	
0727630.D	G111-769-1H MSD x1	7/28/2005 1:35				MRC	
0727631.D	G240-36-9E DUP x1	7/28/2005 2:09				MRC	
0727632.D	G175-492-1E x1	7/28/2005 2:44				MRC	
0727633.D	G128-1570-12E x1	7/28/2005 3:19				MRC	x 10
0727634.D	G122-2627-1M x1	7/28/2005 3:53				MRC	
0727635.D	G311-130-1M x1	7/28/2005 4:28				MRC	
0727636.D	G111-769-1F x1	7/28/2005 5:02				MRC	
0727637.D	G161-2083-1J x1	7/28/2005 5:37				MRC	
0727638.D	G161-2083-2G x1	7/28/2005 6:11				MRC	
0727639.D	G161-2085-1L x1	7/28/2005 6:46				MRC	

Analyst: MC

Page Number: 1908

Metals Sample Raw Data

Analytical Sequence

Method : TALmethod

Seq	Loc	Sample ID	Status
1	1	CalBlank	Applied
2	4	Std3 -High	Applied
3	5	Std4 -High	Applied
4	6	Std5 -High	Applied
5	3	Std2 -Mid	Applied
6	2	Std1 -Low	Applied
7	7	icv	Analyzed
8	3	ccv1	Analyzed
9	1	ccb1	Analyzed
10	8	icsA1	Analyzed
11	9	icsB1	Analyzed
12	2	lowstd	Analyzed
13	10	pb3300 - RR Pb	Analyzed
14	11	lcs3300	Analyzed
15	12	lcd3300	Analyzed
16	13	G161-2048-16E - Mn	Analyzed
17	14	G161-2048-16F ms - Mn	Analyzed
18	15	G161-2048-16G msd - Mn	Analyzed
19	16	G161-2048-19E - Mn	Analyzed
20	3	ccv2	Analyzed
21	1	ccb2	Analyzed
22	17	G161-2078-10C - Mn	Analyzed
23	18	G161-2078-11K - Na, Fe, Al	Analyzed
24	19	G161-2084-1C - Fe	Analyzed
25	20	G161-2081-4D - Mn	Analyzed
26	21	G161-2081-5D	Analyzed
27	22	G161-2081-6D - Mn	Analyzed
28	23	G161-2081-7D - Mn	Analyzed
29	24	G161-2081-8D	Analyzed
30	25	G161-2081-8E dup	Analyzed
31	26	G636-1-1D - Na, K	Analyzed
32	3	ccv3 - Na, K	Analyzed
33	1	ccb3 - Na	Analyzed
34	27	G636-1-2D - Na	Analyzed
35	28	G636-1-3D - Na, K	Analyzed
36	29	G363-26-1B	Analyzed
37	30	G363-26-2B	Analyzed
38	31	G363-26-3B	Analyzed
39	32	G363-26-4B	Analyzed
40	33	G363-26-4C dup	Analyzed
41	34	pb3262 - Na	Analyzed
42	35	lcs3262	Analyzed
43	36	lcd3262	Analyzed
44	3	ccv4 - Na	Analyzed
45	1	ccb4 - Na	Analyzed
46	37	G175-491-1E	Analyzed
47	38	G175-491-1F ms	Analyzed
48	39	G175-491-1G msd	Analyzed
49	40	G132-1383-1I x10	Analyzed
50	41	G132-1383-1J ms x10	Analyzed
51	42	G132-1383-1K msd x10	Analyzed
52	8	icsA2	Analyzed
53	9	icsB2	Analyzed
54	3	ccv5 - Se, Zn, Pb, Cu, Fe	Analyzed
55	1	ccb5 - Mn, Fe, Cr, V, Cu	Analyzed

Analysis Begun

Start Time: 7/26/2005 05:11:36 PM
Logged In Analyst: Anyone
Spectrometer Model: Optima 2100

Plasma On Time: 7/26/2005 08:16:59 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Anyone\Sample Information\072605b.sif
Batch ID:
Results Data Set: 072605b
Results Library: C:\pe\Anyone\Results\Results.mdb

Sequence No.: 1
Sample ID: CalBlank
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/26/2005 05:11:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CalBlank

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: CalBlank

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	-62.6	18.42	29.43%	[0.00]	mg/L
Tl 191	-307.2	7.49	2.44%	[0.00]	mg/L
Se 196	135.0	7.37	5.46%	[0.00]	mg/L
Sb 207	434.9	68.42	15.73%	[0.00]	mg/L
Zn 213	4528.8	124.13	2.74%	[0.00]	mg/L
Cd 214	4623.9	83.23	1.80%	[0.00]	mg/L
Pb 220	868.4	3.89	0.45%	[0.00]	mg/L
Co 229	326.1	270.88	83.06%	[0.00]	mg/L
Ni 232	3705.8	68.46	1.85%	[0.00]	mg/L
Ba 234	2397.7	75.74	3.16%	[0.00]	mg/L
Mn 258	23591.8	158.70	0.67%	[0.00]	mg/L
Fe 260	-8452.7	1460.31	17.28%	[0.00]	mg/L
Cr 268	-223.8	445.71	199.14%	[0.00]	mg/L
Mg 279	685.7	13.33	1.94%	[0.00]	mg/L
V 292	17221.1	334.79	1.94%	[0.00]	mg/L
Al 308	3290.4	18.49	0.56%	[0.00]	mg/L
Be 313	1143.6	319.95	27.98%	[0.00]	mg/L
Ca 318	13850.8	116.86	0.84%	[0.00]	mg/L
Cu 325	50780.6	342.30	0.67%	[0.00]	mg/L
Ag 328	1436.1	66.44	4.63%	[0.00]	mg/L
Na 590	21086.7	668.85	3.17%	[0.00]	mg/L
K 766	470.8	547.68	116.34%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Std3 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 7/26/2005 05:17:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std3 -High

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: Std3 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	5341.1	12.96	0.24%	[1]	mg/L
Se 196	6084.3	29.71	0.49%	[1]	mg/L
Zn 213	280720.7	684.04	0.24%	[1]	mg/L

Cd 214	270827.0	48.04	0.02%	[1]	mg/L
Pb 220	20344.7	195.45	0.96%	[1]	mg/L
Ba 234	2244038.0	8997.34	0.40%	[5]	mg/L
Cr 268	339555.9	3052.02	0.90%	[1]	mg/L
Be 313	6597672.1	33072.42	0.50%	[1]	mg/L
Cu 325	1227499.8	10951.83	0.89%	[1]	mg/L

Sequence No.: 3
Sample ID: Std4 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/26/2005 05:21:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std4 -High

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: Std4 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Co 229	131007.0	1115.25	0.85%	[1]	mg/L
Ni 232	126293.9	679.48	0.54%	[1]	mg/L
Mn 258	2286086.3	14035.19	0.61%	[1]	mg/L
Fe 260	446448.9	162.99	0.04%	[5]	mg/L
Mg 279	38229.1	408.09	1.07%	[5]	mg/L
V 292	269758.2	8.39	0.00%	[1]	mg/L
Al 308	105023.8	62.59	0.06%	[5]	mg/L
Ca 318	313007.8	928.88	0.30%	[5]	mg/L
Na 590	613183.3	4919.98	0.80%	[5]	mg/L
K 766	155268.2	237.56	0.15%	[5]	mg/L

Sequence No.: 4
Sample ID: Std5 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 7/26/2005 05:25:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std5 -High

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: Std5 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Tl 191	6941.8	19.51	0.28%	[1]	mg/L
Sb 207	13297.1	205.01	1.54%	[1]	mg/L
Ag 328	745322.2	2625.25	0.35%	[1]	mg/L

Sequence No.: 5
Sample ID: Std2 -Mid
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/26/2005 05:27:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std2 -Mid

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: Std2 -Mid

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	2830.0	19.14	0.68%	[0.5]	mg/L

Tl 191	3590.6	37.75	1.05%	[0.5] mg/L
Se 196	3021.9	7.51	0.25%	[0.5] mg/L
Sb 207	7250.0	35.67	0.49%	[0.5] mg/L
Zn 213	139895.4	265.39	0.19%	[0.5] mg/L
Cd 214	133479.2	333.19	0.25%	[0.5] mg/L
Pb 220	9945.4	10.03	0.10%	[0.5] mg/L
Co 229	64036.8	1150.68	1.80%	[0.5] mg/L
Ni 232	63266.2	273.84	0.43%	[0.5] mg/L
Ba 234	1096434.5	5042.47	0.46%	[2.5] mg/L
Mn 258	1131252.6	0.00	0.00%	[0.5] mg/L
Fe 260	222177.9	3029.96	1.36%	[2.5] mg/L
Cr 268	165444.9	1447.11	0.87%	[0.5] mg/L
Mg 279	19018.6	8.99	0.05%	[2.5] mg/L
V 292	133449.1	269.83	0.20%	[0.5] mg/L
Al 308	51835.0	18.49	0.04%	[2.5] mg/L
Be 313	3320847.7	26617.45	0.80%	[0.5] mg/L
Ca 318	156188.3	1311.12	0.84%	[2.5] mg/L
Cu 325	583444.9	8318.79	1.43%	[0.5] mg/L
Ag 328	365772.0	3172.93	0.87%	[0.5] mg/L
Na 590	296428.3	1203.90	0.41%	[2.5] mg/L
K 766	77851.8	221.18	0.28%	[2.5] mg/L

Sequence No.: 6
Sample ID: Std1 -Low
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/26/2005 05:33:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std1 -Low

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: Std1 -Low

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	40.9	27.99	68.40%	[0.01]	mg/L
Tl 191	66.6	83.85	125.93%	[0.01]	mg/L
Se 196	51.7	2.27	4.39%	[0.01]	mg/L
Sb 207	542.5	6.24	1.15%	[0.04]	mg/L
Zn 213	2809.9	399.53	14.22%	[0.01]	mg/L
Cd 214	1285.2	45.64	3.55%	[0.005]	mg/L
Pb 220	227.9	18.37	8.06%	[0.01]	mg/L
Co 229	1108.8	76.11	6.86%	[0.01]	mg/L
Ni 232	1305.3	115.07	8.82%	[0.01]	mg/L
Ba 234	42859.1	126.00	0.29%	[0.1]	mg/L
Mn 258	22437.9	1103.15	4.92%	[0.01]	mg/L
Fe 260	8133.8	1528.01	18.79%	[0.1]	mg/L
Cr 268	2720.1	311.57	11.45%	[0.01]	mg/L
Mg 279	739.0	84.30	11.41%	[0.1]	mg/L
V 292	13002.4	403.25	3.10%	[0.05]	mg/L
Al 308	1677.9	126.69	7.55%	[0.1]	mg/L
Be 313	63970.6	663.48	1.04%	[0.01]	mg/L
Ca 318	5020.0	158.77	3.16%	[0.1]	mg/L
Cu 325	11811.7	205.38	1.74%	[0.01]	mg/L
Ag 328	7309.6	91.61	1.25%	[0.01]	mg/L
Na 590	17376.5	242.91	1.40%	[0.2]	mg/L
K 766	6297.7	68.46	1.09%	[0.2]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
As 189	3	Lin Thru 0	0.0	5405	0.00000	0.999719	
Tl 191	3	Lin Thru 0	0.0	6990	0.00000	0.999906	
Se 196	3	Lin Thru 0	0.0	6076	0.00000	0.999996	
Sb 207	3	Lin Thru 0	0.0	13540	0.00000	0.999370	
Zn 213	3	Lin Thru 0	0.0	280500	0.00000	0.999999	
Cd 214	3	Lin Thru 0	0.0	270100	0.00000	0.999984	

Pb 220	3	Lin Thru 0	0.0	20250	0.00000	0.999959
Co 229	3	Lin Thru 0	0.0	130400	0.00000	0.999959
Ni 232	3	Lin Thru 0	0.0	126300	0.00000	1.000000
Ba 234	3	Lin Thru 0	0.0	446800	0.00000	0.999958
Mn 258	3	Lin Thru 0	0.0	2281000	0.00000	0.999991
Fe 260	3	Lin Thru 0	0.0	89200	0.00000	0.999997
Cr 268	3	Lin Thru 0	0.0	337800	0.00000	0.999946
Mg 279	3	Lin Thru 0	0.0	7638	0.00000	0.999998
V 292	3	Lin Thru 0	0.0	269200	0.00000	0.999990
Al 308	3	Lin Thru 0	0.0	20950	0.00000	0.999980
Be 313	3	Lin Thru 0	0.0	6606000	0.00000	0.999996
Ca 318	3	Lin Thru 0	0.0	62570	0.00000	0.999993
Cu 325	3	Lin Thru 0	0.0	1215000	0.00000	0.999801
Ag 328	3	Lin Thru 0	0.0	742600	0.00000	0.999972
Na 590	3	Lin Thru 0	0.0	121800	0.00000	0.999858
K 766	3	Lin Thru 0	0.0	31070	0.00000	0.999999

Sequence No.: 7
Sample ID: icv
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/26/2005 05:40:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icv

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: icv

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	5681.7	1.05	mg/L	0.008	1.05	mg/L	0.008	0.72%
Tl 191	1416.3	0.206	mg/L	0.0048	0.206	mg/L	0.0048	2.32%
Se 196	1482.3	0.243	mg/L	0.0052	0.243	mg/L	0.0052	2.15%
Sb 207	2906.1	0.200	mg/L	0.0001	0.200	mg/L	0.0001	0.05%
Zn 213	281833.1	1.00	mg/L	0.007	1.00	mg/L	0.007	0.71%
Cd 214	66275.0	0.245	mg/L	0.0020	0.245	mg/L	0.0020	0.83%
Pb 220	19779.7	0.976	mg/L	0.0004	0.976	mg/L	0.0004	0.04%
Co 229	127884.4	0.981	mg/L	0.0055	0.981	mg/L	0.0055	0.56%
Ni 232	127070.4	1.01	mg/L	0.004	1.01	mg/L	0.004	0.43%
Ba 234	2193900.9	4.91	mg/L	0.078	4.91	mg/L	0.078	1.58%
Mn 258	2295352.9	1.01	mg/L	0.003	1.01	mg/L	0.003	0.30%
Fe 260	89036.9	0.998	mg/L	0.0246	0.998	mg/L	0.0246	2.47%
Cr 268	332523.6	0.984	mg/L	0.0053	0.984	mg/L	0.0053	0.54%
Mg 279	7299.1	0.956	mg/L	0.0055	0.956	mg/L	0.0055	0.57%
V 292	674161.3	2.50	mg/L	0.010	2.50	mg/L	0.010	0.40%
Al 308	104693.8	5.00	mg/L	0.024	5.00	mg/L	0.024	0.48%
Be 313	6669192.9	1.01	mg/L	0.015	1.01	mg/L	0.015	1.51%
Ca 318	314634.6	5.03	mg/L	0.008	5.03	mg/L	0.008	0.17%
Cu 325	1222317.6	1.01	mg/L	0.002	1.01	mg/L	0.002	0.20%
Ag 328	70744.7	0.0953	mg/L	0.00077	0.0953	mg/L	0.00077	0.80%
Na 590	616063.8	5.06	mg/L	0.022	5.06	mg/L	0.022	0.44%
K 766	31281.5	1.01	mg/L	0.009	1.01	mg/L	0.009	0.86%

Sequence No.: 8
Sample ID: ccv1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/26/2005 05:46:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv1

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: ccv1

Mean Corrected Calib Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
As 189	2847.9	0.528	mg/L	0.0028	0.528	mg/L	0.0028	0.52%
Tl 191	3568.4	0.513	mg/L	0.0075	0.513	mg/L	0.0075	1.47%
Se 196	2995.3	0.487	mg/L	0.0003	0.487	mg/L	0.0003	0.06%
Sb 207	7112.1	0.518	mg/L	0.0077	0.518	mg/L	0.0077	1.48%
Zn 213	137630.0	0.489	mg/L	0.0029	0.489	mg/L	0.0029	0.60%
Cd 214	131972.2	0.489	mg/L	0.0008	0.489	mg/L	0.0008	0.16%
Pb 220	9869.0	0.487	mg/L	0.0034	0.487	mg/L	0.0034	0.70%
Co 229	63096.0	0.484	mg/L	0.0030	0.484	mg/L	0.0030	0.62%
Ni 232	62057.9	0.491	mg/L	0.0027	0.491	mg/L	0.0027	0.55%
Ba 234	1065269.0	2.38	mg/L	0.008	2.38	mg/L	0.008	0.32%
Mn 258	1123349.4	0.492	mg/L	0.0002	0.492	mg/L	0.0002	0.05%
Fe 260	219803.8	2.46	mg/L	0.075	2.46	mg/L	0.075	3.05%
Cr 268	164121.4	0.486	mg/L	0.0043	0.486	mg/L	0.0043	0.89%
Mg 279	19028.5	2.49	mg/L	0.004	2.49	mg/L	0.004	0.17%
V 292	132434.8	0.492	mg/L	0.0033	0.492	mg/L	0.0033	0.67%
Al 308	51786.6	2.47	mg/L	0.035	2.47	mg/L	0.035	1.42%
Be 313	3299923.4	0.499	mg/L	0.0026	0.499	mg/L	0.0026	0.52%
Ca 318	154286.7	2.47	mg/L	0.015	2.47	mg/L	0.015	0.61%
Cu 325	588891.5	0.485	mg/L	0.0004	0.485	mg/L	0.0004	0.09%
Ag 328	365513.5	0.492	mg/L	0.0001	0.492	mg/L	0.0001	0.02%
Na 590	294465.2	2.42	mg/L	0.016	2.42	mg/L	0.016	0.65%
K 766	78166.2	2.52	mg/L	0.020	2.52	mg/L	0.020	0.81%

Sequence No.: 9
Sample ID: ccb1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/26/2005 05:52:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: ccb1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-25.1	-0.0046	mg/L	0.00115	-0.0046	mg/L	0.00115	24.74%
Tl 191	4.2	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	22.85%
Se 196	13.7	0.0022	mg/L	0.00261	0.0022	mg/L	0.00261	116.37%
Sb 207	78.2	0.0058	mg/L	0.00030	0.0058	mg/L	0.00030	5.17%
Zn 213	168.1	0.0006	mg/L	0.00040	0.0006	mg/L	0.00040	67.37%
Cd 214	-286.5	-0.0011	mg/L	0.00068	-0.0011	mg/L	0.00068	64.57%
Pb 220	73.3	0.0036	mg/L	0.00018	0.0036	mg/L	0.00018	4.99%
Co 229	-69.2	-0.0005	mg/L	0.00049	-0.0005	mg/L	0.00049	91.44%
Ni 232	-41.5	-0.0003	mg/L	0.00008	-0.0003	mg/L	0.00008	23.39%
Ba 234	-593.4	-0.0013	mg/L	0.00114	-0.0013	mg/L	0.00114	86.19%
Mn 258	1393.0	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.00%
Fe 260	-848.9	-0.0095	mg/L	0.00597	-0.0095	mg/L	0.00597	62.69%
Cr 268	-376.3	-0.0011	mg/L	0.00104	-0.0011	mg/L	0.00104	93.51%
Mg 279	-72.6	-0.0095	mg/L	0.00066	-0.0095	mg/L	0.00066	6.97%
V 292	-392.6	-0.0015	mg/L	0.00025	-0.0015	mg/L	0.00025	17.44%
Al 308	-158.3	-0.0076	mg/L	0.00327	-0.0076	mg/L	0.00327	43.25%
Be 313	938.3	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	79.04%
Ca 318	-129.5	-0.0021	mg/L	0.01328	-0.0021	mg/L	0.01328	641.42%
Cu 325	-1258.6	-0.0010	mg/L	0.00051	-0.0010	mg/L	0.00051	48.95%
Ag 328	178.1	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	25.20%
Na 590	-9301.0	-0.0764	mg/L	0.00005	-0.0764	mg/L	0.00005	0.07%
K 766	-275.6	-0.0089	mg/L	0.01156	-0.0089	mg/L	0.01156	130.38%

Sequence No.: 10
Sample ID: icsA1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 7/26/2005 05:58:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsA1

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: icsA1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-35.1	0.0032	mg/L	0.00156	0.0032	mg/L	0.00156	48.43%
Tl 191	-252.6	-0.0095	mg/L	0.00540	-0.0095	mg/L	0.00540	56.96%
Se 196	-370.1	-0.0011	mg/L	0.00323	-0.0011	mg/L	0.00323	303.82%
Sb 207	60.0	0.0044	mg/L	0.00322	0.0044	mg/L	0.00322	72.67%
Zn 213	5190.3	0.0185	mg/L	0.00142	0.0185	mg/L	0.00142	7.67%
Cd 214	1249.1	-0.0006	mg/L	0.00060	-0.0006	mg/L	0.00060	95.02%
Pb 220	169.1	-0.0006	mg/L	0.00297	-0.0006	mg/L	0.00297	508.93%
Co 229	102.6	0.0008	mg/L	0.00034	0.0008	mg/L	0.00034	43.15%
Ni 232	141.4	0.0011	mg/L	0.00000	0.0011	mg/L	0.00000	0.00%
Ba 234	-1321.6	-0.0030	mg/L	0.00071	-0.0030	mg/L	0.00071	23.94%
Mn 258	622.4	0.0003	mg/L	0.00047	0.0003	mg/L	0.00047	171.00%
Fe 260	8855214.4	99.3	mg/L	0.36	99.3	mg/L	0.36	0.37%
Cr 268	185.4	0.0005	mg/L	0.00143	0.0005	mg/L	0.00143	261.40%
Mg 279	299043.7	39.2	mg/L	0.04	39.2	mg/L	0.04	0.09%
V 292	-486.9	-0.0018	mg/L	0.00072	-0.0018	mg/L	0.00072	39.81%
Al 308	2116297.2	101	mg/L	0.7	101	mg/L	0.7	0.64%
Be 313	789.2	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.00%
Ca 318	2462385.7	39.4	mg/L	1.31	39.4	mg/L	1.31	3.32%
Cu 325	1355.4	0.0011	mg/L	0.00006	0.0011	mg/L	0.00006	5.05%
Ag 328	-1555.4	-0.0021	mg/L	0.00003	-0.0021	mg/L	0.00003	1.39%
Na 590	-13915.3	-0.114	mg/L	0.0015	-0.114	mg/L	0.0015	1.32%
K 766	-609.0	-0.0196	mg/L	0.01055	-0.0196	mg/L	0.01055	53.80%

Sequence No.: 11
Sample ID: icsB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 7/26/2005 06:04:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsB1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: icsB1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1592.8	0.305	mg/L	0.0057	0.305	mg/L	0.0057	1.88%
Tl 191	1752.2	0.278	mg/L	0.0047	0.278	mg/L	0.0047	1.70%
Se 196	1418.5	0.288	mg/L	0.0025	0.288	mg/L	0.0025	0.85%
Sb 207	4039.1	0.294	mg/L	0.0022	0.294	mg/L	0.0022	0.75%
Zn 213	85604.2	0.304	mg/L	0.0009	0.304	mg/L	0.0009	0.29%
Cd 214	76162.0	0.277	mg/L	0.0017	0.277	mg/L	0.0017	0.61%
Pb 220	5871.2	0.281	mg/L	0.0017	0.281	mg/L	0.0017	0.61%
Co 229	35970.5	0.276	mg/L	0.0025	0.276	mg/L	0.0025	0.92%
Ni 232	35325.9	0.280	mg/L	0.0037	0.280	mg/L	0.0037	1.32%
Ba 234	418766.7	0.937	mg/L	0.0082	0.937	mg/L	0.0082	0.88%
Mn 258	648449.0	0.284	mg/L	0.0012	0.284	mg/L	0.0012	0.41%
Fe 260	8739267.6	98.0	mg/L	0.69	98.0	mg/L	0.69	0.70%
Cr 268	94734.0	0.280	mg/L	0.0031	0.280	mg/L	0.0031	1.12%
Mg 279	302176.4	39.6	mg/L	0.16	39.6	mg/L	0.16	0.40%
V 292	77152.7	0.287	mg/L	0.0020	0.287	mg/L	0.0020	0.71%
Al 308	2108541.3	101	mg/L	0.2	101	mg/L	0.2	0.18%
Be 313	1903100.1	0.288	mg/L	0.0012	0.288	mg/L	0.0012	0.42%
Ca 318	2453428.8	39.2	mg/L	0.32	39.2	mg/L	0.32	0.81%
Cu 325	363403.1	0.299	mg/L	0.0048	0.299	mg/L	0.0048	1.62%
Ag 328	207760.5	0.280	mg/L	0.0014	0.280	mg/L	0.0014	0.52%
Na 590	-14669.6	-0.120	mg/L	0.0004	-0.120	mg/L	0.0004	0.29%
K 766	-437.3	-0.0141	mg/L	0.01260	-0.0141	mg/L	0.01260	89.50%

Sequence No.: 12
Sample ID: lowstd
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/26/2005 06:10:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lowstd

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: lowstd

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	84.5	0.0156	mg/L	0.00279	0.0156	mg/L	0.00279	17.90%
Tl 191	48.9	0.0071	mg/L	0.00218	0.0071	mg/L	0.00218	30.92%
Se 196	58.7	0.0096	mg/L	0.00311	0.0096	mg/L	0.00311	32.56%
Sb 207	586.4	0.0432	mg/L	0.00286	0.0432	mg/L	0.00286	6.62%
Zn 213	2903.7	0.0103	mg/L	0.00175	0.0103	mg/L	0.00175	16.96%
Cd 214	1165.8	0.0043	mg/L	0.00068	0.0043	mg/L	0.00068	15.88%
Pb 220	217.1	0.0107	mg/L	0.00261	0.0107	mg/L	0.00261	24.35%
Co 229	1196.1	0.0092	mg/L	0.00055	0.0092	mg/L	0.00055	6.01%
Ni 232	1261.9	0.0100	mg/L	0.00042	0.0100	mg/L	0.00042	4.25%
Ba 234	42094.8	0.0942	mg/L	0.00146	0.0942	mg/L	0.00146	1.55%
Mn 258	21421.3	0.0094	mg/L	0.00015	0.0094	mg/L	0.00015	1.56%
Fe 260	7053.3	0.0791	mg/L	0.00000	0.0791	mg/L	0.00000	0.00%
Cr 268	3147.8	0.0093	mg/L	0.00157	0.0093	mg/L	0.00157	16.86%
Mg 279	834.5	0.109	mg/L	0.0092	0.109	mg/L	0.0092	8.42%
V 292	12479.7	0.0464	mg/L	0.00025	0.0464	mg/L	0.00025	0.55%
Al 308	1852.6	0.0884	mg/L	0.00654	0.0884	mg/L	0.00654	7.39%
Be 313	62601.7	0.0095	mg/L	0.00025	0.0095	mg/L	0.00025	2.63%
Ca 318	4738.5	0.0757	mg/L	0.00343	0.0757	mg/L	0.00343	4.54%
Cu 325	11932.1	0.0098	mg/L	0.00053	0.0098	mg/L	0.00053	5.44%
Ag 328	7295.3	0.0098	mg/L	0.00046	0.0098	mg/L	0.00046	4.69%
Na 590	7985.5	0.0656	mg/L	0.00168	0.0656	mg/L	0.00168	2.57%
K 766	5451.5	0.175	mg/L	0.0000	0.175	mg/L	0.0000	0.00%

Sequence No.: 13
Sample ID: pb3300
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 7/26/2005 06:17:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: pb3300

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: pb3300

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-11.3	-0.0021	mg/L	0.00323	-0.0021	mg/L	0.00323	155.11%
Tl 191	-111.9	-0.0160	mg/L	0.00263	-0.0160	mg/L	0.00263	16.43%
Se 196	33.5	0.0055	mg/L	0.00306	0.0055	mg/L	0.00306	55.63%
Sb 207	98.7	0.0073	mg/L	0.00145	0.0073	mg/L	0.00145	19.86%
Zn 213	1027.1	0.0037	mg/L	0.00095	0.0037	mg/L	0.00095	25.94%
Cd 214	48.4	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	30.38%
Pb 220	205.6	0.0102	mg/L	0.00161	0.0102	mg/L	0.00161	15.81%
Co 229	-127.0	-0.0010	mg/L	0.00110	-0.0010	mg/L	0.00110	113.31%
Ni 232	324.7	0.0026	mg/L	0.00101	0.0026	mg/L	0.00101	39.17%
Ba 234	-1170.0	-0.0026	mg/L	0.00000	-0.0026	mg/L	0.00000	0.00%
Mn 258	1854.0	0.0008	mg/L	0.00108	0.0008	mg/L	0.00108	132.86%
Fe 260	-1225.2	-0.0137	mg/L	0.00000	-0.0137	mg/L	0.00000	0.00%
Cr 268	172.8	0.0005	mg/L	0.00040	0.0005	mg/L	0.00040	77.64%
Mg 279	-69.8	-0.0091	mg/L	0.02080	-0.0091	mg/L	0.02080	227.80%
V 292	-776.8	-0.0029	mg/L	0.00075	-0.0029	mg/L	0.00075	25.88%
Al 308	-44.3	-0.0021	mg/L	0.00267	-0.0021	mg/L	0.00267	126.17%
Be 313	469.2	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	96.48%

Ca 318	-1418.7	-0.0227 mg/L	0.00000	-0.0227 mg/L	0.00000	0.00%
Cu 325	-1453.5	-0.0012 mg/L	0.00056	-0.0012 mg/L	0.00056	47.10%
Ag 328	-75.5	-0.0001 mg/L	0.00018	-0.0001 mg/L	0.00018	181.46%
Na 590	-16229.8	-0.133 mg/L	0.0016	-0.133 mg/L	0.0016	1.17%
K 766	-156.4	-0.0050 mg/L	0.00068	-0.0050 mg/L	0.00068	13.47%

Sequence No.: 14
Sample ID: lcs3300
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 7/26/2005 06:23:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcs3300

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: lcs3300

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1992.8	0.369	mg/L	0.0003	0.369	mg/L	0.0003	0.08%
Tl 191	2420.0	0.348	mg/L	0.0068	0.348	mg/L	0.0068	1.94%
Se 196	1975.6	0.321	mg/L	0.0010	0.321	mg/L	0.0010	0.33%
Sb 207	5190.6	0.378	mg/L	0.0042	0.378	mg/L	0.0042	1.12%
Zn 213	100392.7	0.356	mg/L	0.0005	0.356	mg/L	0.0005	0.13%
Cd 214	93184.8	0.345	mg/L	0.0008	0.345	mg/L	0.0008	0.23%
Pb 220	7462.8	0.368	mg/L	0.0003	0.368	mg/L	0.0003	0.08%
Co 229	47791.3	0.366	mg/L	0.0011	0.366	mg/L	0.0011	0.30%
Ni 232	47102.7	0.373	mg/L	0.0023	0.373	mg/L	0.0023	0.61%
Ba 234	806639.9	1.81	mg/L	0.016	1.81	mg/L	0.016	0.88%
Mn 258	849408.8	0.372	mg/L	0.0007	0.372	mg/L	0.0007	0.19%
Fe 260	163591.4	1.83	mg/L	0.048	1.83	mg/L	0.048	2.60%
Cr 268	124065.6	0.367	mg/L	0.0008	0.367	mg/L	0.0008	0.22%
Mg 279	14098.1	1.85	mg/L	0.005	1.85	mg/L	0.005	0.26%
V 292	99870.6	0.371	mg/L	0.0056	0.371	mg/L	0.0056	1.52%
Al 308	39165.0	1.87	mg/L	0.013	1.87	mg/L	0.013	0.70%
Be 313	2393889.6	0.362	mg/L	0.0021	0.362	mg/L	0.0021	0.58%
Ca 318	117277.1	1.87	mg/L	0.011	1.87	mg/L	0.011	0.57%
Cu 325	479124.4	0.394	mg/L	0.0075	0.394	mg/L	0.0075	1.91%
Ag 328	267248.3	0.360	mg/L	0.0002	0.360	mg/L	0.0002	0.06%
Na 590	219948.9	1.81	mg/L	0.007	1.81	mg/L	0.007	0.40%
K 766	59316.6	1.91	mg/L	0.009	1.91	mg/L	0.009	0.46%

Sequence No.: 15
Sample ID: lcd3300
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 7/26/2005 06:29:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcd3300

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: lcd3300

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2026.0	0.375	mg/L	0.0012	0.375	mg/L	0.0012	0.32%
Tl 191	2480.2	0.357	mg/L	0.0039	0.357	mg/L	0.0039	1.09%
Se 196	1992.9	0.324	mg/L	0.0018	0.324	mg/L	0.0018	0.56%
Sb 207	5337.8	0.389	mg/L	0.0001	0.389	mg/L	0.0001	0.03%
Zn 213	102176.5	0.363	mg/L	0.0029	0.363	mg/L	0.0029	0.79%
Cd 214	95879.5	0.355	mg/L	0.0014	0.355	mg/L	0.0014	0.39%
Pb 220	7563.7	0.373	mg/L	0.0014	0.373	mg/L	0.0014	0.37%
Co 229	47776.9	0.366	mg/L	0.0005	0.366	mg/L	0.0005	0.13%
Ni 232	48354.4	0.383	mg/L	0.0063	0.383	mg/L	0.0063	1.64%
Ba 234	827162.2	1.85	mg/L	0.015	1.85	mg/L	0.015	0.82%

Mn 258	865212.1	0.379 mg/L	0.0012	0.379 mg/L	0.0012	0.31%
Fe 260	166601.7	1.87 mg/L	0.000	1.87 mg/L	0.000	0.00%
Cr 268	125120.5	0.370 mg/L	0.0013	0.370 mg/L	0.0013	0.36%
Mg 279	14528.1	1.90 mg/L	0.006	1.90 mg/L	0.006	0.32%
V 292	102474.3	0.381 mg/L	0.0015	0.381 mg/L	0.0015	0.39%
Al 308	39848.6	1.90 mg/L	0.020	1.90 mg/L	0.020	1.05%
Be 313	2433430.8	0.368 mg/L	0.0025	0.368 mg/L	0.0025	0.67%
Ca 318	118977.2	1.90 mg/L	0.001	1.90 mg/L	0.001	0.04%
Cu 325	483408.0	0.398 mg/L	0.0006	0.398 mg/L	0.0006	0.14%
Ag 328	272799.5	0.367 mg/L	0.0017	0.367 mg/L	0.0017	0.48%
Na 590	221293.8	1.82 mg/L	0.032	1.82 mg/L	0.032	1.75%
K 766	60421.4	1.94 mg/L	0.010	1.94 mg/L	0.010	0.53%

Sequence No.: 16
Sample ID: G161-2048-16E
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 7/26/2005 06:35:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2048-16E

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: G161-2048-16E

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	344.2	0.0769	mg/L	0.00073	0.0769	mg/L	0.00073	0.95%
Tl 191	-444.4	-0.0276	mg/L	0.00674	-0.0276	mg/L	0.00674	24.45%
Se 196	-349.0	0.0149	mg/L	0.00144	0.0149	mg/L	0.00144	9.67%
Sb 207	68.5	0.0001	mg/L	0.00180	0.0001	mg/L	0.00180	>999.9%
Zn 213	205805.3	0.733	mg/L	0.0033	0.733	mg/L	0.0033	0.46%
Cd 214	1976.9	0.0010	mg/L	0.00046	0.0010	mg/L	0.00046	47.46%
Pb 220	11472.6	0.556	mg/L	0.0017	0.556	mg/L	0.0017	0.31%
Co 229	8318.2	0.0638	mg/L	0.00038	0.0638	mg/L	0.00038	0.59%
Ni 232	17421.6	0.138	mg/L	0.0027	0.138	mg/L	0.0027	1.98%
Ba 234	333748.1	0.747	mg/L	0.0002	0.747	mg/L	0.0002	0.02%
Mn 258	4764308.9	2.09	mg/L	0.005	2.09	mg/L	0.005	0.24%
Fe 260	10703320.8	120	mg/L	0.9	120	mg/L	0.9	0.78%
Cr 268	114582.7	0.339	mg/L	0.0005	0.339	mg/L	0.0005	0.16%
Mg 279	265507.2	34.8	mg/L	0.20	34.8	mg/L	0.20	0.59%
V 292	92936.8	0.345	mg/L	0.0015	0.345	mg/L	0.0015	0.45%
Al 308	1235034.5	59.0	mg/L	0.07	59.0	mg/L	0.07	0.11%
Be 313	10133.7	0.0015	mg/L	0.00009	0.0015	mg/L	0.00009	5.78%
Ca 318	1298489.3	20.8	mg/L	0.04	20.8	mg/L	0.04	0.18%
Cu 325	349508.6	0.288	mg/L	0.0029	0.288	mg/L	0.0029	1.02%
Ag 328	-2042.0	-0.0027	mg/L	0.00034	-0.0027	mg/L	0.00034	12.25%
Na 590	111881.1	0.919	mg/L	0.0275	0.919	mg/L	0.0275	3.00%
K 766	465554.4	15.0	mg/L	0.00	15.0	mg/L	0.00	0.02%

Sequence No.: 17
Sample ID: G161-2048-16F ms
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 7/26/2005 06:42:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2048-16F ms

Analyte	Back Pressure	Flow
All	140.0 kPa	0.80 L/min

Mean Data: G161-2048-16F ms

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1992.3	0.381	mg/L	0.0001	0.381	mg/L	0.0001	0.01%
Tl 191	2102.7	0.336	mg/L	0.0076	0.336	mg/L	0.0076	2.26%
Se 196	1588.6	0.325	mg/L	0.0021	0.325	mg/L	0.0021	0.66%

Sb 207	2245.3	0.156 mg/L	0.0010	0.156 mg/L	0.0010	0.61%
Zn 213	289275.4	1.03 mg/L	0.008	1.03 mg/L	0.008	0.79%
Cd 214	96128.2	0.350 mg/L	0.0021	0.350 mg/L	0.0021	0.61%
Pb 220	19593.8	0.957 mg/L	0.0167	0.957 mg/L	0.0167	1.74%
Co 229	59481.5	0.456 mg/L	0.0028	0.456 mg/L	0.0028	0.61%
Ni 232	68106.9	0.539 mg/L	0.0043	0.539 mg/L	0.0043	0.80%
Ba 234	1313452.5	2.94 mg/L	0.011	2.94 mg/L	0.011	0.38%
Mn 258	4876783.1	2.14 mg/L	0.008	2.14 mg/L	0.008	0.39%
Fe 260	10127050.7	114 mg/L	0.1	114 mg/L	0.1	0.09%
Cr 268	217987.8	0.645 mg/L	0.0016	0.645 mg/L	0.0016	0.25%
Mg 279	398477.0	52.2 mg/L	0.11	52.2 mg/L	0.11	0.21%
V 292	195334.7	0.726 mg/L	0.0018	0.726 mg/L	0.0018	0.25%
Al 308	1876959.1	89.6 mg/L	0.10	89.6 mg/L	0.10	0.11%
Be 313	2510449.1	0.380 mg/L	0.0006	0.380 mg/L	0.0006	0.15%
Ca 318	1902216.1	30.4 mg/L	0.23	30.4 mg/L	0.23	0.74%
Cu 325	1058838.1	0.871 mg/L	0.0087	0.871 mg/L	0.0087	1.00%
Ag 328	271764.0	0.366 mg/L	0.0001	0.366 mg/L	0.0001	0.02%
Na 590	450888.7	3.70 mg/L	0.058	3.70 mg/L	0.058	1.58%
K 766	846808.4	27.3 mg/L	0.04	27.3 mg/L	0.04	0.14%

Sequence No.: 18
Sample ID: G161-2048-16G msd
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 7/26/2005 06:48:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2048-16G msd

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2048-16G msd

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1969.5	0.375	mg/L	0.0000	0.375	mg/L	0.0000	0.01%
Tl 191	2098.7	0.332	mg/L	0.0013	0.332	mg/L	0.0013	0.38%
Se 196	1645.5	0.326	mg/L	0.0012	0.326	mg/L	0.0012	0.36%
Sb 207	2030.3	0.142	mg/L	0.0020	0.142	mg/L	0.0020	1.40%
Zn 213	302244.6	1.08	mg/L	0.008	1.08	mg/L	0.008	0.75%
Cd 214	96213.6	0.351	mg/L	0.0008	0.351	mg/L	0.0008	0.22%
Pb 220	21331.7	1.04	mg/L	0.003	1.04	mg/L	0.003	0.26%
Co 229	58042.1	0.445	mg/L	0.0014	0.445	mg/L	0.0014	0.33%
Ni 232	63461.5	0.502	mg/L	0.0011	0.502	mg/L	0.0011	0.22%
Ba 234	1288278.8	2.88	mg/L	0.014	2.88	mg/L	0.014	0.48%
Mn 258	4556233.8	2.00	mg/L	0.007	2.00	mg/L	0.007	0.35%
Fe 260	8929538.4	100	mg/L	0.4	100	mg/L	0.4	0.35%
Cr 268	184172.4	0.545	mg/L	0.0027	0.545	mg/L	0.0027	0.50%
Mg 279	340498.0	44.6	mg/L	0.28	44.6	mg/L	0.28	0.63%
V 292	179312.0	0.666	mg/L	0.0005	0.666	mg/L	0.0005	0.07%
Al 308	1615756.0	77.1	mg/L	0.29	77.1	mg/L	0.29	0.38%
Be 313	2465222.8	0.373	mg/L	0.0113	0.373	mg/L	0.0113	3.04%
Ca 318	1611055.0	25.7	mg/L	0.08	25.7	mg/L	0.08	0.32%
Cu 325	952412.5	0.784	mg/L	0.0015	0.784	mg/L	0.0015	0.19%
Ag 328	271460.5	0.366	mg/L	0.0038	0.366	mg/L	0.0038	1.03%
Na 590	408931.8	3.36	mg/L	0.033	3.36	mg/L	0.033	0.99%
K 766	751053.3	24.2	mg/L	0.12	24.2	mg/L	0.12	0.48%

Sequence No.: 19
Sample ID: G161-2048-19E
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 7/26/2005 06:54:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2048-19E

Analyte	Back Pressure	Flow
All	138.0 kPa	0.80 L/min

Mean Data: G161-2048-19E

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	72.9	0.0225	mg/L	0.00636	0.0225	mg/L	0.00636	28.25%
Tl 191	-383.1	-0.0232	mg/L	0.00141	-0.0232	mg/L	0.00141	6.09%
Se 196	-306.9	0.0063	mg/L	0.00294	0.0063	mg/L	0.00294	47.08%
Sb 207	379.7	0.0259	mg/L	0.00241	0.0259	mg/L	0.00241	9.28%
Zn 213	287325.5	1.02	mg/L	0.003	1.02	mg/L	0.003	0.27%
Cd 214	2100.9	0.0028	mg/L	0.00150	0.0028	mg/L	0.00150	53.89%
Pb 220	41970.6	2.06	mg/L	0.009	2.06	mg/L	0.009	0.45%
Co 229	8153.6	0.0625	mg/L	0.00032	0.0625	mg/L	0.00032	0.51%
Ni 232	11222.2	0.0888	mg/L	0.00265	0.0888	mg/L	0.00265	2.99%
Ba 234	474431.6	1.06	mg/L	0.001	1.06	mg/L	0.001	0.06%
Mn 258	3392230.5	1.49	mg/L	0.003	1.49	mg/L	0.003	0.19%
Fe 260	8402678.0	94.2	mg/L	0.29	94.2	mg/L	0.29	0.31%
Cr 268	48790.7	0.144	mg/L	0.0009	0.144	mg/L	0.0009	0.64%
Mg 279	182889.5	23.9	mg/L	0.13	23.9	mg/L	0.13	0.55%
V 292	62888.4	0.234	mg/L	0.0018	0.234	mg/L	0.0018	0.78%
Al 308	1698777.2	81.1	mg/L	0.21	81.1	mg/L	0.21	0.26%
Be 313	25389.5	0.0038	mg/L	0.00008	0.0038	mg/L	0.00008	2.00%
Ca 318	5757756.9	92.0	mg/L	0.19	92.0	mg/L	0.19	0.21%
Cu 325	460994.8	0.379	mg/L	0.0061	0.379	mg/L	0.0061	1.60%
Ag 328	-70.2	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	33.00%
Na 590	69560.8	0.571	mg/L	0.0108	0.571	mg/L	0.0108	1.89%
K 766	282112.0	9.08	mg/L	0.059	9.08	mg/L	0.059	0.65%

Sequence No.: 20
Sample ID: ccv2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/26/2005 07:00:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv2

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: ccv2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2943.2	0.545	mg/L	0.0029	0.545	mg/L	0.0029	0.53%
Tl 191	3737.5	0.537	mg/L	0.0042	0.537	mg/L	0.0042	0.79%
Se 196	3071.8	0.500	mg/L	0.0058	0.500	mg/L	0.0058	1.16%
Sb 207	7347.3	0.535	mg/L	0.0030	0.535	mg/L	0.0030	0.56%
Zn 213	144588.0	0.513	mg/L	0.0010	0.513	mg/L	0.0010	0.19%
Cd 214	137144.4	0.508	mg/L	0.0001	0.508	mg/L	0.0001	0.02%
Pb 220	10385.7	0.513	mg/L	0.0001	0.513	mg/L	0.0001	0.03%
Co 229	66878.7	0.513	mg/L	0.0050	0.513	mg/L	0.0050	0.98%
Ni 232	65401.7	0.518	mg/L	0.0076	0.518	mg/L	0.0076	1.47%
Ba 234	1126460.3	2.52	mg/L	0.037	2.52	mg/L	0.037	1.48%
Mn 258	1176923.8	0.516	mg/L	0.0029	0.516	mg/L	0.0029	0.57%
Fe 260	227561.3	2.55	mg/L	0.024	2.55	mg/L	0.024	0.94%
Cr 268	171201.2	0.507	mg/L	0.0017	0.507	mg/L	0.0017	0.33%
Mg 279	19823.3	2.60	mg/L	0.004	2.60	mg/L	0.004	0.16%
V 292	137951.8	0.513	mg/L	0.0008	0.513	mg/L	0.0008	0.15%
Al 308	54462.1	2.60	mg/L	0.007	2.60	mg/L	0.007	0.25%
Be 313	3444538.3	0.521	mg/L	0.0053	0.521	mg/L	0.0053	1.01%
Ca 318	160336.7	2.56	mg/L	0.009	2.56	mg/L	0.009	0.34%
Cu 325	605640.9	0.498	mg/L	0.0024	0.498	mg/L	0.0024	0.47%
Ag 328	376484.3	0.507	mg/L	0.0006	0.507	mg/L	0.0006	0.13%
Na 590	302928.2	2.49	mg/L	0.018	2.49	mg/L	0.018	0.71%
K 766	80228.3	2.58	mg/L	0.008	2.58	mg/L	0.008	0.32%

Sequence No.: 21
Sample ID: ccb2
Analyst:
Initial Sample Wt:

Autosampler Location: 1
Date Collected: 7/26/2005 07:06:38 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Nebulizer Parameters: ccb2

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: ccb2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-49.4	-0.0091	mg/L	0.00523	-0.0091	mg/L	0.00523	57.27%
Tl 191	-11.7	-0.0017	mg/L	0.00239	-0.0017	mg/L	0.00239	142.54%
Se 196	4.6	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027	36.24%
Sb 207	68.5	0.0051	mg/L	0.00897	0.0051	mg/L	0.00897	176.97%
Zn 213	557.9	0.0020	mg/L	0.00047	0.0020	mg/L	0.00047	23.88%
Cd 214	-48.4	-0.0002	mg/L	0.00045	-0.0002	mg/L	0.00045	253.23%
Pb 220	8.4	0.0004	mg/L	0.00062	0.0004	mg/L	0.00062	148.26%
Co 229	-105.9	-0.0008	mg/L	0.00075	-0.0008	mg/L	0.00075	91.89%
Ni 232	145.2	0.0011	mg/L	0.00108	0.0011	mg/L	0.00108	94.28%
Ba 234	-330.3	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	38.15%
Mn 258	753.7	0.0003	mg/L	0.00040	0.0003	mg/L	0.00040	119.96%
Fe 260	-848.9	-0.0095	mg/L	0.00597	-0.0095	mg/L	0.00597	62.69%
Cr 268	-86.0	-0.0003	mg/L	0.00069	-0.0003	mg/L	0.00069	269.59%
Mg 279	-79.7	-0.0104	mg/L	0.00424	-0.0104	mg/L	0.00424	40.59%
V 292	-5.9	0.0000	mg/L	0.00121	0.0000	mg/L	0.00121	>999.9%
Al 308	-247.9	-0.0118	mg/L	0.00455	-0.0118	mg/L	0.00455	38.41%
Be 313	618.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	21.46%
Ca 318	364.1	0.0058	mg/L	0.00212	0.0058	mg/L	0.00212	36.44%
Cu 325	121.7	0.0001	mg/L	0.00048	0.0001	mg/L	0.00048	477.61%
Ag 328	226.7	0.0003	mg/L	0.00052	0.0003	mg/L	0.00052	170.73%
Na 590	-12619.2	-0.104	mg/L	0.0035	-0.104	mg/L	0.0035	3.36%
K 766	37.6	0.0012	mg/L	0.00171	0.0012	mg/L	0.00171	141.42%

Sequence No.: 22
Sample ID: G161-2078-10C
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 7/26/2005 07:12:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2078-10C

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2078-10C

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-191.3	-0.0049	mg/L	0.00185	-0.0049	mg/L	0.00185	37.74%
Tl 191	-1232.3	-0.0834	mg/L	0.00592	-0.0834	mg/L	0.00592	7.10%
Se 196	-1041.9	0.0092	mg/L	0.00185	0.0092	mg/L	0.00185	20.10%
Sb 207	-535.0	-0.0457	mg/L	0.00587	-0.0457	mg/L	0.00587	12.84%
Zn 213	153341.0	0.546	mg/L	0.0004	0.546	mg/L	0.0004	0.07%
Cd 214	4781.1	0.0018	mg/L	0.00047	0.0018	mg/L	0.00047	25.56%
Pb 220	1791.2	0.0615	mg/L	0.00096	0.0615	mg/L	0.00096	1.57%
Co 229	31981.5	0.245	mg/L	0.0005	0.245	mg/L	0.0005	0.22%
Ni 232	18395.1	0.146	mg/L	0.0005	0.146	mg/L	0.0005	0.34%
Ba 234	677431.9	1.52	mg/L	0.032	1.52	mg/L	0.032	2.11%
Mn 258	22610034.7	9.91	mg/L	0.069	9.91	mg/L	0.069	0.69%
Fe 260	26730693.3	300	mg/L	0.7	300	mg/L	0.7	0.25%
Cr 268	142326.4	0.421	mg/L	0.0026	0.421	mg/L	0.0026	0.61%
Mg 279	492904.8	64.5	mg/L	0.74	64.5	mg/L	0.74	1.15%
V 292	174398.5	0.648	mg/L	0.0031	0.648	mg/L	0.0031	0.47%
Al 308	3997503.8	191	mg/L	0.7	191	mg/L	0.7	0.36%
Be 313	53560.6	0.0081	mg/L	0.00003	0.0081	mg/L	0.00003	0.39%
Ca 318	178278.9	2.85	mg/L	0.055	2.85	mg/L	0.055	1.92%
Cu 325	239997.1	0.197	mg/L	0.0033	0.197	mg/L	0.0033	1.68%
Ag 328	-6159.5	-0.0083	mg/L	0.00012	-0.0083	mg/L	0.00012	1.46%
Na 590	140025.9	1.15	mg/L	0.016	1.15	mg/L	0.016	1.41%

K 766	2659699.4	85.6 mg/L	0.32	85.6 mg/L	0.32	0.38%

Sequence No.: 23
Sample ID: G161-2078-11K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 7/26/2005 07:19:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2078-11K

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2078-11K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-188.4	-0.0065	mg/L	0.00916	-0.0065	mg/L	0.00916	141.68%
Tl 191	-1244.2	-0.0967	mg/L	0.00048	-0.0967	mg/L	0.00048	0.50%
Se 196	-1004.1	0.0042	mg/L	0.00406	0.0042	mg/L	0.00406	96.09%
Sb 207	-613.6	-0.0504	mg/L	0.01037	-0.0504	mg/L	0.01037	20.56%
Zn 213	239852.8	0.854	mg/L	0.0005	0.854	mg/L	0.0005	0.06%
Cd 214	3958.4	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	13.94%
Pb 220	1662.9	0.0568	mg/L	0.00083	0.0568	mg/L	0.00083	1.46%
Co 229	25795.3	0.198	mg/L	0.0017	0.198	mg/L	0.0017	0.87%
Ni 232	42834.7	0.339	mg/L	0.0001	0.339	mg/L	0.0001	0.02%
Ba 234	577712.3	1.29	mg/L	0.017	1.29	mg/L	0.017	1.29%
Mn 258	10423413.6	4.57	mg/L	0.014	4.57	mg/L	0.014	0.30%
Fe 260	25070115.8	281	mg/L	0.8	281	mg/L	0.8	0.29%
Cr 268	117200.8	0.347	mg/L	0.0014	0.347	mg/L	0.0014	0.40%
Mg 279	487156.2	63.8	mg/L	0.13	63.8	mg/L	0.13	0.20%
V 292	286515.7	1.06	mg/L	0.005	1.06	mg/L	0.005	0.43%
Al 308	5135450.7	245	mg/L	0.9	245	mg/L	0.9	0.38%
Be 313	75146.9	0.0114	mg/L	0.00020	0.0114	mg/L	0.00020	1.77%
Ca 318	115356.8	1.84	mg/L	0.006	1.84	mg/L	0.006	0.30%
Cu 325	752548.3	0.619	mg/L	0.0057	0.619	mg/L	0.0057	0.92%
Ag 328	-6470.2	-0.0087	mg/L	0.00009	-0.0087	mg/L	0.00009	1.07%
Na 590	153277.1	1.26	mg/L	0.022	1.26	mg/L	0.022	1.78%
K 766	1992139.3	64.1	mg/L	0.20	64.1	mg/L	0.20	0.31%

Sequence No.: 24
Sample ID: G161-2084-1C
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 7/26/2005 07:25:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2084-1C

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2084-1C

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-88.6	0.0218	mg/L	0.00046	0.0218	mg/L	0.00046	2.11%
Tl 191	-960.2	-0.0374	mg/L	0.00800	-0.0374	mg/L	0.00800	21.41%
Se 196	-1252.4	0.0171	mg/L	0.00229	0.0171	mg/L	0.00229	13.42%
Sb 207	397.4	0.0240	mg/L	0.00262	0.0240	mg/L	0.00262	10.92%
Zn 213	37163.1	0.132	mg/L	0.0005	0.132	mg/L	0.0005	0.36%
Cd 214	5788.5	0.0018	mg/L	0.00042	0.0018	mg/L	0.00042	22.94%
Pb 220	1692.6	0.0502	mg/L	0.00056	0.0502	mg/L	0.00056	1.11%
Co 229	2364.1	0.0181	mg/L	0.00169	0.0181	mg/L	0.00169	9.34%
Ni 232	3734.7	0.0296	mg/L	0.00108	0.0296	mg/L	0.00108	3.67%
Ba 234	172484.6	0.386	mg/L	0.0012	0.386	mg/L	0.0012	0.32%
Mn 258	807725.5	0.354	mg/L	0.0003	0.354	mg/L	0.0003	0.07%
Fe 260	33026170.3	370	mg/L	1.3	370	mg/L	1.3	0.36%
Cr 268	122505.5	0.363	mg/L	0.0011	0.363	mg/L	0.0011	0.31%
Mg 279	52890.9	6.92	mg/L	0.039	6.92	mg/L	0.039	0.56%

V 292	219032.1	0.814 mg/L	0.0028	0.814 mg/L	0.0028	0.35%
Al 308	3809555.9	182 mg/L	0.4	182 mg/L	0.4	0.24%
Be 313	15200.6	0.0023 mg/L	0.00017	0.0023 mg/L	0.00017	7.34%
Ca 318	673028.0	10.8 mg/L	0.10	10.8 mg/L	0.10	0.89%
Cu 325	194674.4	0.160 mg/L	0.0006	0.160 mg/L	0.0006	0.37%
Ag 328	-5986.6	-0.0081 mg/L	0.00028	-0.0081 mg/L	0.00028	3.42%
Na 590	68016.5	0.559 mg/L	0.0016	0.559 mg/L	0.0016	0.29%
K 766	87968.7	2.83 mg/L	0.012	2.83 mg/L	0.012	0.44%

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Sequence No.: 25
Sample ID: G161-2081-4D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 7/26/2005 07:32:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-4D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-4D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-45.2	0.0033	mg/L	0.00102	0.0033	mg/L	0.00102	30.55%
Tl 191	-439.3	-0.0296	mg/L	0.00302	-0.0296	mg/L	0.00302	10.20%
Se 196	-381.7	0.0074	mg/L	0.00379	0.0074	mg/L	0.00379	51.17%
Sb 207	57.3	0.0021	mg/L	0.00203	0.0021	mg/L	0.00203	98.28%
Zn 213	146312.6	0.521	mg/L	0.0033	0.521	mg/L	0.0033	0.63%
Cd 214	2099.6	0.0016	mg/L	0.00044	0.0016	mg/L	0.00044	27.25%
Pb 220	3918.6	0.183	mg/L	0.0016	0.183	mg/L	0.0016	0.85%
Co 229	6977.9	0.0535	mg/L	0.00012	0.0535	mg/L	0.00012	0.22%
Ni 232	11515.5	0.0911	mg/L	0.00056	0.0911	mg/L	0.00056	0.62%
Ba 234	277221.2	0.621	mg/L	0.0068	0.621	mg/L	0.0068	1.09%
Mn 258	2799332.7	1.23	mg/L	0.002	1.23	mg/L	0.002	0.14%
Fe 260	10389770.4	116	mg/L	0.1	116	mg/L	0.1	0.10%
Cr 268	49611.4	0.147	mg/L	0.0011	0.147	mg/L	0.0011	0.77%
Mg 279	247680.9	32.4	mg/L	0.17	32.4	mg/L	0.17	0.53%
V 292	78411.6	0.291	mg/L	0.0006	0.291	mg/L	0.0006	0.19%
Al 308	2286824.8	109	mg/L	0.5	109	mg/L	0.5	0.50%
Be 313	9438.3	0.0014	mg/L	0.00010	0.0014	mg/L	0.00010	7.03%
Ca 318	1207782.1	19.3	mg/L	0.07	19.3	mg/L	0.07	0.34%
Cu 325	246978.0	0.203	mg/L	0.0041	0.203	mg/L	0.0041	2.00%
Ag 328	-2219.2	-0.0030	mg/L	0.00006	-0.0030	mg/L	0.00006	2.11%
Na 590	82849.6	0.680	mg/L	0.0108	0.680	mg/L	0.0108	1.59%
K 766	350697.0	11.3	mg/L	0.01	11.3	mg/L	0.01	0.07%

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Sequence No.: 26
Sample ID: G161-2081-5D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 7/26/2005 07:38:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-5D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-5D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-53.2	0.0069	mg/L	0.00105	0.0069	mg/L	0.00105	15.14%
Tl 191	-541.6	-0.0316	mg/L	0.00532	-0.0316	mg/L	0.00532	16.82%
Se 196	-485.4	0.0196	mg/L	0.00270	0.0196	mg/L	0.00270	13.80%
Sb 207	52.6	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	3.20%
Zn 213	88483.9	0.315	mg/L	0.0005	0.315	mg/L	0.0005	0.16%
Cd 214	2758.1	0.0015	mg/L	0.00134	0.0015	mg/L	0.00134	90.68%
Pb 220	7171.9	0.339	mg/L	0.0005	0.339	mg/L	0.0005	0.15%

Co 229	3176.6	0.0244 mg/L	0.00009	0.0244 mg/L	0.00009	0.35%
Ni 232	5615.4	0.0444 mg/L	0.00271	0.0444 mg/L	0.00271	6.10%
Ba 234	237271.8	0.531 mg/L	0.0034	0.531 mg/L	0.0034	0.63%
Mn 258	1441176.1	0.632 mg/L	0.0026	0.632 mg/L	0.0026	0.41%
Fe 260	14716469.6	165 mg/L	1.3	165 mg/L	1.3	0.79%
Cr 268	61324.3	0.182 mg/L	0.0009	0.182 mg/L	0.0009	0.49%
Mg 279	82981.2	10.9 mg/L	0.02	10.9 mg/L	0.02	0.17%
V 292	118358.9	0.440 mg/L	0.0015	0.440 mg/L	0.0015	0.35%
Al 308	2607736.3	124 mg/L	1.0	124 mg/L	1.0	0.77%
Be 313	12048.9	0.0018 mg/L	0.00012	0.0018 mg/L	0.00012	6.61%
Ca 318	649516.2	10.4 mg/L	0.02	10.4 mg/L	0.02	0.22%
Cu 325	224639.3	0.185 mg/L	0.0010	0.185 mg/L	0.0010	0.53%
Ag 328	-3366.0	-0.0045 mg/L	0.00034	-0.0045 mg/L	0.00034	7.48%
Na 590	36313.2	0.298 mg/L	0.0031	0.298 mg/L	0.0031	1.04%
K 766	123541.6	3.98 mg/L	0.001	3.98 mg/L	0.001	0.02%

Sequence No.: 27
Sample ID: G161-2081-6D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 7/26/2005 07:45:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-6D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-6D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-46.8	0.0101	mg/L	0.00199	0.0101	mg/L	0.00199	19.84%
Tl 191	-662.1	-0.0406	mg/L	0.00054	-0.0406	mg/L	0.00054	1.33%
Se 196	-650.7	0.0110	mg/L	0.00380	0.0110	mg/L	0.00380	34.46%
Sb 207	45.1	0.0019	mg/L	0.00219	0.0019	mg/L	0.00219	116.43%
Zn 213	71678.7	0.255	mg/L	0.0001	0.255	mg/L	0.0001	0.03%
Cd 214	3049.8	0.0009	mg/L	0.00194	0.0009	mg/L	0.00194	211.76%
Pb 220	2105.7	0.0863	mg/L	0.00178	0.0863	mg/L	0.00178	2.06%
Co 229	5117.9	0.0392	mg/L	0.00095	0.0392	mg/L	0.00095	2.41%
Ni 232	6773.4	0.0536	mg/L	0.00271	0.0536	mg/L	0.00271	5.05%
Ba 234	443645.3	0.993	mg/L	0.0015	0.993	mg/L	0.0015	0.15%
Mn 258	2462889.8	1.08	mg/L	0.004	1.08	mg/L	0.004	0.37%
Fe 260	17474705.4	196	mg/L	0.3	196	mg/L	0.3	0.17%
Cr 268	33268.9	0.0985	mg/L	0.00128	0.0985	mg/L	0.00128	1.30%
Mg 279	203813.5	26.7	mg/L	0.43	26.7	mg/L	0.43	1.61%
V 292	136996.4	0.509	mg/L	0.0018	0.509	mg/L	0.0018	0.35%
Al 308	4038331.1	193	mg/L	0.4	193	mg/L	0.4	0.18%
Be 313	13456.4	0.0020	mg/L	0.00010	0.0020	mg/L	0.00010	4.93%
Ca 318	504431.6	8.06	mg/L	0.127	8.06	mg/L	0.127	1.58%
Cu 325	277499.0	0.228	mg/L	0.0024	0.228	mg/L	0.0024	1.05%
Ag 328	-4338.9	-0.0058	mg/L	0.00009	-0.0058	mg/L	0.00009	1.58%
Na 590	41754.3	0.343	mg/L	0.0014	0.343	mg/L	0.0014	0.41%
K 766	517844.8	16.7	mg/L	0.01	16.7	mg/L	0.01	0.06%

Sequence No.: 28
Sample ID: G161-2081-7D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 7/26/2005 07:52:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-7D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-7D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

As 189	135.5	0.0355 mg/L	0.00161	0.0355 mg/L	0.00161	4.52%
Tl 191	-429.1	-0.0280 mg/L	0.00358	-0.0280 mg/L	0.00358	12.79%
Se 196	-311.6	0.0167 mg/L	0.00443	0.0167 mg/L	0.00443	26.53%
Sb 207	16.8	-0.0002 mg/L	0.00168	-0.0002 mg/L	0.00168	>999.9%
Zn 213	200343.5	0.714 mg/L	0.0004	0.714 mg/L	0.0004	0.06%
Cd 214	2667.4	0.0039 mg/L	0.00027	0.0039 mg/L	0.00027	6.96%
Pb 220	7403.6	0.355 mg/L	0.0026	0.355 mg/L	0.0026	0.72%
Co 229	7051.5	0.0541 mg/L	0.00040	0.0541 mg/L	0.00040	0.74%
Ni 232	7598.2	0.0601 mg/L	0.00111	0.0601 mg/L	0.00111	1.84%
Ba 234	483618.0	1.08 mg/L	0.011	1.08 mg/L	0.011	0.99%
Mn 258	4258307.4	1.87 mg/L	0.001	1.87 mg/L	0.001	0.06%
Fe 260	10058467.4	113 mg/L	0.3	113 mg/L	0.3	0.30%
Cr 268	32190.5	0.0953 mg/L	0.00136	0.0953 mg/L	0.00136	1.43%
Mg 279	220129.2	28.8 mg/L	0.41	28.8 mg/L	0.41	1.42%
V 292	90167.9	0.335 mg/L	0.0003	0.335 mg/L	0.0003	0.08%
Al 308	1865150.8	89.0 mg/L	0.43	89.0 mg/L	0.43	0.49%
Be 313	16889.5	0.0026 mg/L	0.00009	0.0026 mg/L	0.00009	3.47%
Ca 318	3523428.6	56.3 mg/L	0.43	56.3 mg/L	0.43	0.76%
Cu 325	250004.2	0.206 mg/L	0.0032	0.206 mg/L	0.0032	1.57%
Ag 328	-2154.1	-0.0029 mg/L	0.00049	-0.0029 mg/L	0.00049	16.96%
Na 590	101017.7	0.830 mg/L	0.0129	0.830 mg/L	0.0129	1.56%
K 766	643957.4	20.7 mg/L	0.01	20.7 mg/L	0.01	0.04%

Sequence No.: 29
Sample ID: G161-2081-8D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 7/26/2005 07:58:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-8D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-8D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-53.8	0.0012	mg/L	0.00113	0.0012	mg/L	0.00113	92.55%
Tl 191	-311.6	-0.0228	mg/L	0.00014	-0.0228	mg/L	0.00014	0.61%
Se 196	-235.9	0.0096	mg/L	0.00143	0.0096	mg/L	0.00143	14.92%
Sb 207	230.5	0.0084	mg/L	0.00352	0.0084	mg/L	0.00352	41.75%
Zn 213	37029.0	0.130	mg/L	0.0010	0.130	mg/L	0.0010	0.74%
Cd 214	1377.2	0.0008	mg/L	0.00066	0.0008	mg/L	0.00066	77.22%
Pb 220	751.1	0.0299	mg/L	0.00278	0.0299	mg/L	0.00278	9.30%
Co 229	10297.2	0.0790	mg/L	0.00086	0.0790	mg/L	0.00086	1.09%
Ni 232	76775.8	0.608	mg/L	0.0018	0.608	mg/L	0.0018	0.30%
Ba 234	243254.6	0.544	mg/L	0.0056	0.544	mg/L	0.0056	1.03%
Mn 258	330253.4	0.145	mg/L	0.0005	0.145	mg/L	0.0005	0.32%
Fe 260	7158639.0	80.3	mg/L	0.34	80.3	mg/L	0.34	0.42%
Cr 268	196815.7	0.583	mg/L	0.0030	0.583	mg/L	0.0030	0.52%
Mg 279	185394.0	24.3	mg/L	0.09	24.3	mg/L	0.09	0.37%
V 292	77820.9	0.289	mg/L	0.0010	0.289	mg/L	0.0010	0.35%
Al 308	1575606.3	75.2	mg/L	0.08	75.2	mg/L	0.08	0.11%
Be 313	15934.5	0.0024	mg/L	0.00019	0.0024	mg/L	0.00019	7.84%
Ca 318	1739873.2	27.8	mg/L	0.23	27.8	mg/L	0.23	0.84%
Cu 325	334938.9	0.276	mg/L	0.0011	0.276	mg/L	0.0011	0.39%
Ag 328	-1615.1	-0.0022	mg/L	0.00003	-0.0022	mg/L	0.00003	1.35%
Na 590	85265.4	0.700	mg/L	0.0074	0.700	mg/L	0.0074	1.06%
K 766	28270.2	0.910	mg/L	0.0047	0.910	mg/L	0.0047	0.52%

Sequence No.: 30
Sample ID: G161-2081-8E dup
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 7/26/2005 08:04:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2081-8E dup

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G161-2081-8E dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-86.7	-0.0027	mg/L	0.00416	-0.0027	mg/L	0.00416	152.17%
Tl 191	-336.9	-0.0226	mg/L	0.00608	-0.0226	mg/L	0.00608	26.89%
Se 196	-277.5	0.0112	mg/L	0.00043	0.0112	mg/L	0.00043	3.85%
Sb 207	152.3	0.0011	mg/L	0.00291	0.0011	mg/L	0.00291	256.93%
Zn 213	42361.8	0.148	mg/L	0.0006	0.148	mg/L	0.0006	0.37%
Cd 214	1705.6	0.0013	mg/L	0.00003	0.0013	mg/L	0.00003	2.61%
Pb 220	767.1	0.0294	mg/L	0.00029	0.0294	mg/L	0.00029	0.98%
Co 229	11393.0	0.0874	mg/L	0.00106	0.0874	mg/L	0.00106	1.21%
Ni 232	88532.2	0.701	mg/L	0.0023	0.701	mg/L	0.0023	0.33%
Ba 234	222785.8	0.499	mg/L	0.0033	0.499	mg/L	0.0033	0.66%
Mn 258	337752.9	0.148	mg/L	0.0005	0.148	mg/L	0 0005	0.33%
Fe 260	8414283.7	94.3	mg/L	0.48	94.3	mg/L	0.48	0.51%
Cr 268	231687.1	0.686	mg/L	0.0016	0.686	mg/L	0.0016	0.24%
Mg 279	220920.2	28.9	mg/L	0.10	28.9	mg/L	0.10	0.34%
V 292	78324.7	0.291	mg/L	0.0010	0.291	mg/L	0.0010	0.36%
Al 308	1730907.4	82.6	mg/L	0.40	82.6	mg/L	0.40	0.48%
Be 313	18390.8	0.0028	mg/L	0.00019	0.0028	mg/L	0.00019	6.92%
Ca 318	2065461.6	33.0	mg/L	0.02	33.0	mg/L	0.02	0.06%
Cu 325	335279.0	0.276	mg/L	0.0005	0.276	mg/L	0.0005	0.16%
Ag 328	-2342.9	-0.0032	mg/L	0.00037	-0.0032	mg/L	0.00037	11.69%
Na 590	101895.6	0.837	mg/L	0.0041	0.837	mg/L	0.0041	0.49%
K 766	28490.3	0.917	mg/L	0.0059	0.917	mg/L	0.0059	0.65%

Sequence No.: 31
Sample ID: G636-1-1D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 7/26/2005 08:10:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G636-1-1D

Analyte	Back Pressure	Flow
All	139.0 kPa	0.80 L/min

Mean Data: G636-1-1D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	532.3	0.104	mg/L	0.0061	0.104	mg/L	0.0061	5.87%
Tl 191	-70.5	0.0008	mg/L	0.00184	0.0008	mg/L	0.00184	244.74%
Se 196	-31.5	0.0182	mg/L	0.00717	0.0182	mg/L	0.00717	39.51%
Sb 207	163.5	0.0068	mg/L	0.00009	0.0068	mg/L	0.00009	1.37%
Zn 213	35340.0	0.124	mg/L	0.0010	0.124	mg/L	0.0010	0.77%
Cd 214	325.6	-0.0008	mg/L	0.00028	-0.0008	mg/L	0.00028	32.69%
Pb 220	946.1	0.0432	mg/L	0.00024	0.0432	mg/L	0.00024	0.55%
Co 229	2361.2	0.0181	mg/L	0.00014	0.0181	mg/L	0.00014	0.76%
Ni 232	51493.2	0.408	mg/L	0.0021	0.408	mg/L	0.0021	0.50%
Ba 234	94743.3	0.212	mg/L	0.0024	0.212	mg/L	0.0024	1.13%
Mn 258	631796.3	0.277	mg/L	0.0028	0.277	mg/L	0.0028	1.01%
Fe 260	3453589.3	38.7	mg/L	0.09	38.7	mg/L	0.09	0.24%
Cr 268	119969.7	0.355	mg/L	0.0007	0.355	mg/L	0.0007	0.19%
Mg 279	90310.0	11.8	mg/L	0.06	11.8	mg/L	0.06	0.55%
V 292	251370.5	0.934	mg/L	0.0068	0.934	mg/L	0.0068	0.73%
Al 308	2488589.2	119	mg/L	0.5	119	mg/L	0.5	0.40%
Be 313	20212.2	0.0031	mg/L	0.00006	0.0031	mg/L	0.00006	1.97%
Ca 318	4492070.1	71.8	mg/L	0.32	71.8	mg/L	0.32	0.44%
Cu 325	28391.0	0.0234	mg/L	0.00099	0.0234	mg/L	0.00099	4.22%
Ag 328	-747.3	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	2.88%
Na 590	Saturated4							
K 766	6427995.5	207	mg/L	1.2	207	mg/L	1.2	0.57%

Sequence No.: 32 Autosampler Location: 3

Sample ID: ccv3
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 7/26/2005 08:17:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv3

Analyte	Back Pressure	Flow
All	140.0 kPa	0.80 L/min

Mean Data: ccv3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2889.4	0.535	mg/L	0.0040	0.535	mg/L	0.0040	0.74%
Tl 191	3688.4	0.530	mg/L	0.0000	0.530	mg/L	0.0000	0.01%
Se 196	3123.4	0.508	mg/L	0.0025	0.508	mg/L	0.0025	0.49%
Sb 207	7407.6	0.540	mg/L	0.0024	0.540	mg/L	0.0024	0.45%
Zn 213	144207.6	0.512	mg/L	0.0000	0.512	mg/L	0.0000	0.01%
Cd 214	136674.1	0.506	mg/L	0.0008	0.506	mg/L	0.0008	0.17%
Pb 220	10289.9	0.508	mg/L	0.0044	0.508	mg/L	0.0044	0.87%
Co 229	67032.3	0.514	mg/L	0.0012	0.514	mg/L	0.0012	0.23%
Ni 232	65290.8	0.517	mg/L	0.0031	0.517	mg/L	0.0031	0.60%
Ba 234	1130959.4	2.53	mg/L	0.024	2.53	mg/L	0.024	0.96%
Mn 258	1174665.0	0.515	mg/L	0.0003	0.515	mg/L	0.0003	0.06%
Fe 260	226317.2	2.54	mg/L	0.016	2.54	mg/L	0.016	0.63%
Cr 268	170135.4	0.504	mg/L	0.0004	0.504	mg/L	0.0004	0.07%
Mg 279	19687.5	2.58	mg/L	0.013	2.58	mg/L	0.013	0.52%
V 292	137944.0	0.512	mg/L	0.0007	0.512	mg/L	0.0007	0.15%
Al 308	54322.8	2.59	mg/L	0.003	2.59	mg/L	0.003	0.11%
Be 313	3432864.8	0.520	mg/L	0.0061	0.520	mg/L	0.0061	1.17%
Ca 318	157483.5	2.52	mg/L	0.030	2.52	mg/L	0.030	1.19%
Cu 325	600559.2	0.494	mg/L	0.0064	0.494	mg/L	0.0064	1.30%
Ag 328	377435.6	0.508	mg/L	0.0004	0.508	mg/L	0.0004	0.08%
Na 590	444259.7	3.65	mg/L	0.042	3.65	mg/L	0.042	1.15%
K 766	86698.9	2.79	mg/L	0.033	2.79	mg/L	0.033	1.19%

Sequence No.: 33
Sample ID: ccb3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/26/2005 08:23:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb3

Analyte	Back Pressure	Flow
All	140.0 kPa	0.80 L/min

Mean Data: ccb3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	15.4	0.0028	mg/L	0.00384	0.0028	mg/L	0.00384	135.09%
Tl 191	-2.3	-0.0003	mg/L	0.00219	-0.0003	mg/L	0.00219	664.71%
Se 196	8.7	0.0014	mg/L	0.00301	0.0014	mg/L	0.00301	211.96%
Sb 207	1.2	0.0001	mg/L	0.00176	0.0001	mg/L	0.00176	>999.9%
Zn 213	365.2	0.0013	mg/L	0.00043	0.0013	mg/L	0.00043	33.54%
Cd 214	-52.4	-0.0002	mg/L	0.00094	-0.0002	mg/L	0.00094	485.45%
Pb 220	37.0	0.0018	mg/L	0.00116	0.0018	mg/L	0.00116	63.68%
Co 229	-126.6	-0.0010	mg/L	0.00117	-0.0010	mg/L	0.00117	120.51%
Ni 232	235.4	0.0019	mg/L	0.00205	0.0019	mg/L	0.00205	110.04%
Ba 234	-271.6	-0.0006	mg/L	0.00013	-0.0006	mg/L	0.00013	20.77%
Mn 258	-1156.3	-0.0005	mg/L	0.00108	-0.0005	mg/L	0.00108	213.02%
Fe 260	-1080.5	-0.0121	mg/L	0.00964	-0.0121	mg/L	0.00964	79.57%
Cr 268	-203.6	-0.0006	mg/L	0.00118	-0.0006	mg/L	0.00118	195.55%
Mg 279	-10.2	-0.0013	mg/L	0.00740	-0.0013	mg/L	0.00740	555.45%
V 292	-441.0	-0.0016	mg/L	0.00051	-0.0016	mg/L	0.00051	31.05%
Al 308	35.3	0.0017	mg/L	0.00503	0.0017	mg/L	0.00503	298.42%
Be 313	-883.1	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	117.55%
Ca 318	-19.8	-0.0003	mg/L	0.00656	-0.0003	mg/L	0.00656	>999.9%

Cu 325	-605.7	-0.0005 mg/L	0.00003	-0.0005 mg/L	0.00003	5.50%
Ag 328	291.9	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	23.45%
Na 590	87745.5	0.721 mg/L	0.0012	0.721 mg/L	0.0012	0.16%
K 766	4096.1	0.132 mg/L	0.0143	0.132 mg/L	0.0143	10.83%

Sequence No.: 34
Sample ID: G636-1-2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 7/26/2005 08:29:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G636-1-2D

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G636-1-2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	160.5	0.0310	mg/L	0.00577	0.0310	mg/L	0.00577	18.63%
Tl 191	-21.1	-0.0011	mg/L	0.00233	-0.0011	mg/L	0.00233	210.53%
Se 196	14.7	0.0066	mg/L	0.00068	0.0066	mg/L	0.00068	10.33%
Sb 207	76.0	0.0041	mg/L	0.00115	0.0041	mg/L	0.00115	28.16%
Zn 213	5180.3	0.0179	mg/L	0.00006	0.0179	mg/L	0.00006	0.32%
Cd 214	-103.3	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	37.13%
Pb 220	121.1	0.0054	mg/L	0.00084	0.0054	mg/L	0.00084	15.68%
Co 229	621.4	0.0048	mg/L	0.00091	0.0048	mg/L	0.00091	19.06%
Ni 232	19178.6	0.152	mg/L	0.0026	0.152	mg/L	0.0026	1.72%
Ba 234	46884.9	0.105	mg/L	0.0006	0.105	mg/L	0.0006	0.52%
Mn 258	101100.7	0.0443	mg/L	0.00009	0.0443	mg/L	0.00009	0.20%
Fe 260	612607.5	6.87	mg/L	0.050	6.87	mg/L	0.050	0.73%
Cr 268	35254.5	0.104	mg/L	0.0012	0.104	mg/L	0.0012	1.17%
Mg 279	73172.5	9.58	mg/L	0.001	9.58	mg/L	0.001	0.01%
V 292	84318.5	0.313	mg/L	0.0010	0.313	mg/L	0.0010	0.32%
Al 308	375270.2	17.9	mg/L	0.06	17.9	mg/L	0.06	0.36%
Be 313	3847.1	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	11.77%
Ca 318	3273557.6	52.3	mg/L	0.27	52.3	mg/L	0.27	0.52%
Cu 325	5009.7	0.0041	mg/L	0.00037	0.0041	mg/L	0.00037	8.86%
Ag 328	64.8	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	243.98%
Na 590	Saturated4							
K 766	4065415.1	131	mg/L	0.4	131	mg/L	0.4	0.28%

Sequence No.: 35
Sample ID: G636-1-3D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 7/26/2005 08:36:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G636-1-3D

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G636-1-3D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	436.9	0.0865	mg/L	0.00260	0.0865	mg/L	0.00260	3.00%
Tl 191	-57.5	0.0017	mg/L	0.00035	0.0017	mg/L	0.00035	20.38%
Se 196	-86.4	0.0074	mg/L	0.00149	0.0074	mg/L	0.00149	20.04%
Sb 207	61.1	-0.0008	mg/L	0.00478	-0.0008	mg/L	0.00478	597.38%
Zn 213	48569.1	0.171	mg/L	0.0014	0.171	mg/L	0.0014	0.82%
Cd 214	145.0	-0.0014	mg/L	0.00071	-0.0014	mg/L	0.00071	51.86%
Pb 220	954.6	0.0439	mg/L	0.00155	0.0439	mg/L	0.00155	3.54%
Co 229	1921.6	0.0147	mg/L	0.00062	0.0147	mg/L	0.00062	4.20%
Ni 232	53650.8	0.425	mg/L	0.0048	0.425	mg/L	0.0048	1.13%
Ba 234	106413.8	0.238	mg/L	0.0013	0.238	mg/L	0.0013	0.55%
Mn 258	401215.2	0.176	mg/L	0.0020	0.176	mg/L	0.0020	1.14%

Fe 260	3203565.7	35.9 mg/L	0.03	35.9 mg/L	0.03	0.09%
Cr 268	121648.8	0.360 mg/L	0.0030	0.360 mg/L	0.0030	0.83%
Mg 279	73082.1	9.57 mg/L	0.096	9.57 mg/L	0.096	1.00%
V 292	208855.7	0.776 mg/L	0.0038	0.776 mg/L	0.0038	0.49%
Al 308	3647292.3	174 mg/L	0.2	174 mg/L	0.2	0.12%
Be 313	22745.6	0.0034 mg/L	0.00008	0.0034 mg/L	0.00008	2.33%
Ca 318	1504322.6	24.0 mg/L	0.03	24.0 mg/L	0.03	0.13%
Cu 325	40468.3	0.0333 mg/L	0.00017	0.0333 mg/L	0.00017	0.50%
Ag 328	-649.2	-0.0009 mg/L	0.00058	-0.0009 mg/L	0.00058	66.80%
Na 590	Saturated4					
K 766	6500942.7	209 mg/L	0.5	209 mg/L	0.5	0.24%

Sequence No.: 36
Sample ID: G363-26-1B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 7/26/2005 08:42:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G363-26-1B

Analyte	Back Pressure	Flow
All	143.0 kPa	0.80 L/min

Mean Data: G363-26-1B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	4.8	0.0009	mg/L	0.00457	0.0009	mg/L	0.00457	519.30%
Tl 191	-10.8	-0.0014	mg/L	0.00605	-0.0014	mg/L	0.00605	441.48%
Se 196	13.8	0.0025	mg/L	0.00773	0.0025	mg/L	0.00773	306.37%
Sb 207	1365.2	0.101	mg/L	0.0008	0.101	mg/L	0.0008	0.74%
Zn 213	35092.7	0.125	mg/L	0.0015	0.125	mg/L	0.0015	1.17%
Cd 214	-94.5	-0.0004	mg/L	0.00000	-0.0004	mg/L	0.00000	0.08%
Pb 220	37.0	0.0018	mg/L	0.00020	0.0018	mg/L	0.00020	11.46%
Co 229	-50.0	-0.0004	mg/L	0.00071	-0.0004	mg/L	0.00071	185.86%
Ni 232	238.4	0.0019	mg/L	0.00221	0.0019	mg/L	0.00221	117.00%
Ba 234	24364.6	0.0545	mg/L	0.00027	0.0545	mg/L	0.00027	0.49%
Mn 258	102840.3	0.0451	mg/L	0.00070	0.0451	mg/L	0.00070	1.55%
Fe 260	38285.7	0.429	mg/L	0.0060	0.429	mg/L	0.0060	1.39%
Cr 268	828.6	0.0025	mg/L	0.00079	0.0025	mg/L	0.00079	32.03%
Mg 279	8924.4	1.17	mg/L	0.003	1.17	mg/L	0.003	0.21%
V 292	-244.3	-0.0009	mg/L	0.00052	-0.0009	mg/L	0.00052	57.85%
Al 308	5401.1	0.258	mg/L	0.0003	0.258	mg/L	0.0003	0.11%
Be 313	656.8	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	149.73%
Ca 318	343862.9	5.50	mg/L	0.043	5.50	mg/L	0.043	0.78%
Cu 325	6075.9	0.0050	mg/L	0.00014	0.0050	mg/L	0.00014	2.83%
Ag 328	243.3	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	56.19%
Na 590	438116.1	3.60	mg/L	0.029	3.60	mg/L	0.029	0.81%
K 766	202776.9	6.53	mg/L	0.031	6.53	mg/L	0.031	0.48%

Sequence No.: 37
Sample ID: G363-26-2B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 7/26/2005 08:48:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G363-26-2B

Analyte	Back Pressure	Flow
All	142.0 kPa	0.80 L/min

Mean Data: G363-26-2B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	16.5	0.0031	mg/L	0.00180	0.0031	mg/L	0.00180	58.86%
Tl 191	-41.9	-0.0058	mg/L	0.00093	-0.0058	mg/L	0.00093	16.14%
Se 196	8.5	0.0017	mg/L	0.00241	0.0017	mg/L	0.00241	141.82%
Sb 207	1361.4	0.101	mg/L	0.0041	0.101	mg/L	0.0041	4.09%

Zn 213	37903.6	0.135 mg/L	0.0014	0.135 mg/L	0.0014	1.05%
Cd 214	-4.0	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	433.48%
Pb 220	74.5	0.0036 mg/L	0.00246	0.0036 mg/L	0.00246	67.83%
Co 229	-11.9	-0.0001 mg/L	0.00080	-0.0001 mg/L	0.00080	870.19%
Ni 232	435.7	0.0034 mg/L	0.00108	0.0034 mg/L	0.00108	31.43%
Ba 234	25683.4	0.0575 mg/L	0.00000	0.0575 mg/L	0.00000	0.00%
Mn 258	112135.5	0.0492 mg/L	0.00007	0.0492 mg/L	0.00007	0.14%
Fe 260	44306.4	0.497 mg/L	0.0060	0.497 mg/L	0.0060	1.20%
Cr 268	717.0	0.0021 mg/L	0.00039	0.0021 mg/L	0.00039	18.51%
Mg 279	9404.6	1.23 mg/L	0.010	1.23 mg/L	0.010	0.84%
V 292	-293.5	-0.0011 mg/L	0.00126	-0.0011 mg/L	0.00126	115.54%
Al 308	6617.2	0.316 mg/L	0.0051	0.316 mg/L	0.0051	1.63%
Be 313	563.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	103.97%
Ca 318	358203.1	5.72 mg/L	0.027	5.72 mg/L	0.027	0.48%
Cu 325	6123.1	0.0050 mg/L	0.00042	0.0050 mg/L	0.00042	8.37%
Ag 328	371.6	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	12.14%
Na 590	420634.3	3.45 mg/L	0.039	3.45 mg/L	0.039	1.14%
K 766	201444.2	6.48 mg/L	0.010	6.48 mg/L	0.010	0.15%

Sequence No.: 38
Sample ID: G363-26-3B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 7/26/2005 08:55:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G363-26-3B

Analyte	Back Pressure	Flow
All	142.0 kPa	0.80 L/min

Mean Data: G363-26-3B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-20.4	-0.0038	mg/L	0.00486	-0.0038	mg/L	0.00486	128.40%
Tl 191	-15.9	-0.0021	mg/L	0.00360	-0.0021	mg/L	0.00360	170.35%
Se 196	-23.6	-0.0037	mg/L	0.00163	-0.0037	mg/L	0.00163	44.57%
Sb 207	1384.4	0.102	mg/L	0.0020	0.102	mg/L	0.0020	1.93%
Zn 213	32741.9	0.117	mg/L	0.0009	0.117	mg/L	0.0009	0.81%
Cd 214	-94.5	-0.0004	mg/L	0.00000	-0.0004	mg/L	0.00000	0.10%
Pb 220	48.0	0.0023	mg/L	0.00047	0.0023	mg/L	0.00047	20.06%
Co 229	-31.7	-0.0002	mg/L	0.00095	-0.0002	mg/L	0.00095	392.47%
Ni 232	342.1	0.0027	mg/L	0.00097	0.0027	mg/L	0.00097	35.69%
Ba 234	23708.7	0.0531	mg/L	0.00085	0.0531	mg/L	0.00085	1.60%
Mn 258	93961.2	0.0412	mg/L	0.00047	0.0412	mg/L	0.00047	1.13%
Fe 260	34474.3	0.386	mg/L	0.0067	0.386	mg/L	0.0067	1.74%
Cr 268	562.0	0.0017	mg/L	0.00026	0.0017	mg/L	0.00026	15.40%
Mg 279	8752.7	1.15	mg/L	0.000	1.15	mg/L	0.000	0.00%
V 292	-148.3	-0.0006	mg/L	0.00101	-0.0006	mg/L	0.00101	182.51%
Al 308	5338.0	0.255	mg/L	0.0000	0.255	mg/L	0.0000	0.00%
Be 313	712.1	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	74.54%
Ca 318	355435.1	5.68	mg/L	0.019	5.68	mg/L	0.019	0.34%
Cu 325	5905.8	0.0049	mg/L	0.00006	0.0049	mg/L	0.00006	1.16%
Ag 328	323.6	0.0004	mg/L	0.00040	0.0004	mg/L	0.00040	91.90%
Na 590	475001.2	3.90	mg/L	0.031	3.90	mg/L	0.031	0.81%
K 766	199121.0	6.41	mg/L	0.008	6.41	mg/L	0.008	0.13%

Sequence No.: 39
Sample ID: G363-26-4B
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 7/26/2005 09:01:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G363-26-4B

Analyte	Back Pressure	Flow
All	142.0 kPa	0.80 L/min

Mean Data: G363-26-4B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	20.0	0.0037	mg/L	0.00167	0.0037	mg/L	0.00167	44.97%
Tl 191	-11.9	-0.0015	mg/L	0.00724	-0.0015	mg/L	0.00724	478.05%
Se 196	16.5	0.0030	mg/L	0.00430	0.0030	mg/L	0.00430	142.46%
Sb 207	1210.7	0.0894	mg/L	0.00457	0.0894	mg/L	0.00457	5.11%
Zn 213	29382.5	0.105	mg/L	0.0018	0.105	mg/L	0.0018	1.71%
Cd 214	-46.1	-0.0002	mg/L	0.00025	-0.0002	mg/L	0.00025	128.53%
Pb 220	54.3	0.0026	mg/L	0.00384	0.0026	mg/L	0.00384	145.90%
Co 229	-4.9	0.0000	mg/L	0.00041	0.0000	mg/L	0.00041	>999.9%
Ni 232	337.1	0.0027	mg/L	0.00002	0.0027	mg/L	0.00002	0.72%
Ba 234	21031.7	0.0471	mg/L	0.00078	0.0471	mg/L	0.00078	1.65%
Mn 258	83021.2	0.0364	mg/L	0.00022	0 0364	mg/L	0.00022	0.59%
Fe 260	45386.8	0.509	mg/L	0.0112	0.509	mg/L	0.0112	2.19%
Cr 268	725.9	0.0021	mg/L	0.00043	0.0021	mg/L	0.00043	20.01%
Mg 279	7978.1	1.04	mg/L	0.011	1.04	mg/L	0.011	1.05%
V 292	-94.0	-0.0003	mg/L	0.00021	-0.0003	mg/L	0.00021	60.58%
Al 308	7700.0	0.368	mg/L	0.0034	0.368	mg/L	0.0034	0.92%
Be 313	1032.1	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	95.28%
Ca 318	304089.9	4.86	mg/L	0.046	4.86	mg/L	0.046	0.94%
Cu 325	5107.7	0.0042	mg/L	0.00003	0.0042	mg/L	0.00003	0.69%
Ag 328	371.9	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.80%
Na 590	381459.8	3.13	mg/L	0.025	3.13	mg/L	0.025	0.81%
K 766	172174.0	5.54	mg/L	0.007	5.54	mg/L	0.007	0.13%

Sequence No.: 40
Sample ID: G363-26-4C dup
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 7/26/2005 09:07:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G363-26-4C dup

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G363-26-4C dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1.3	0.0002	mg/L	0.00131	0.0002	mg/L	0.00131	536.29%
Tl 191	-57.9	-0.0081	mg/L	0.00170	-0.0081	mg/L	0.00170	21.00%
Se 196	-16.2	-0.0024	mg/L	0.00153	-0.0024	mg/L	0.00153	64.99%
Sb 207	1062.2	0.0784	mg/L	0.00504	0.0784	mg/L	0.00504	6.43%
Zn 213	26834.5	0.0956	mg/L	0.00140	0.0956	mg/L	0.00140	1.47%
Cd 214	349.3	0.0013	mg/L	0.00000	0.0013	mg/L	0.00000	0.05%
Pb 220	24.0	0.0011	mg/L	0.00003	0.0011	mg/L	0.00003	2.85%
Co 229	140.2	0.0011	mg/L	0.00020	0.0011	mg/L	0.00020	18.52%
Ni 232	338.9	0.0027	mg/L	0.00217	0.0027	mg/L	0.00217	80.81%
Ba 234	19070.2	0.0427	mg/L	0.00105	0.0427	mg/L	0.00105	2.45%
Mn 258	76651.7	0.0336	mg/L	0.00000	0.0336	mg/L	0.00000	0.00%
Fe 260	45435.2	0.509	mg/L	0.0119	0.509	mg/L	0.0119	2.34%
Cr 268	510.7	0.0015	mg/L	0.00083	0.0015	mg/L	0.00083	54.71%
Mg 279	7461.5	0.977	mg/L	0.0048	0.977	mg/L	0.0048	0.49%
V 292	43.1	0.0002	mg/L	0.00051	0.0002	mg/L	0.00051	317.72%
Al 308	7745.4	0.370	mg/L	0.0009	0.370	mg/L	0.0009	0.24%
Be 313	-21.9	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	>999.9%
Ca 318	289941.3	4.63	mg/L	0.019	4.63	mg/L	0.019	0.40%
Cu 325	4744.0	0.0039	mg/L	0.00017	0.0039	mg/L	0.00017	4.33%
Ag 328	276.5	0.0004	mg/L	0.00031	0.0004	mg/L	0.00031	82.14%
Na 590	394726.3	3.24	mg/L	0.013	3.24	mg/L	0.013	0.42%
K 766	162343.3	5.22	mg/L	0.006	5.22	mg/L	0.006	0.11%

Sequence No.: 41
Sample ID: pb3262
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 7/26/2005 09:13:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: pb3262

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: pb3262

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-15.4	-0.0028	mg/L	0.00823	-0.0028	mg/L	0.00823	289.30%
Tl 191	-53.2	-0.0076	mg/L	0.00281	-0.0076	mg/L	0.00281	36.96%
Se 196	-0.3	0.0000	mg/L	0.00349	0.0000	mg/L	0.00349	>999.9%
Sb 207	6.1	0.0005	mg/L	0.00207	0.0005	mg/L	0.00207	450.39%
Zn 213	277.5	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	1.56%
Cd 214	96.8	0.0004	mg/L	0.00132	0.0004	mg/L	0.00132	368.97%
Pb 220	4.0	0.0002	mg/L	0.00199	0.0002	mg/L	0.00199	>999.9%
Co 229	-215.5	-0.0017	mg/L	0.00032	-0.0017	mg/L	0.00032	19.22%
Ni 232	-1.7	0.0000	mg/L	0.00381	0.0000	mg/L	0.00381	>999.9%
Ba 234	-620.7	-0.0014	mg/L	0.00114	-0.0014	mg/L	0.00114	82.40%
Mn 258	640.4	0.0003	mg/L	0.00047	0.0003	mg/L	0.00047	166.20%
Fe 260	-144.7	-0.0016	mg/L	0.01713	-0.0016	mg/L	0.01713	>999 9%
Cr 268	-212.5	-0.0006	mg/L	0.00036	-0.0006	mg/L	0.00036	56.55%
Mg 279	-46.1	-0.0060	mg/L	0.01169	-0.0060	mg/L	0.01169	193.55%
V 292	-1111.2	-0.0041	mg/L	0.00052	-0.0041	mg/L	0.00052	12.72%
Al 308	-368.3	-0.0176	mg/L	0.01347	-0.0176	mg/L	0.01347	76.59%
Be 313	712.1	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	74.54%
Ca 318	-1597.7	-0.0255	mg/L	0.00444	-0.0255	mg/L	0.00444	17.38%
Cu 325	-1572.6	-0.0013	mg/L	0.00053	-0.0013	mg/L	0.00053	41.30%
Ag 328	-78.6	-0.0001	mg/L	0.00024	-0.0001	mg/L	0.00024	231.11%
Na 590	118592.7	0.974	mg/L	0.0086	0.974	mg/L	0.0086	0.88%
K 766	4896.7	0.158	mg/L	0.0111	0.158	mg/L	0.0111	7.01%

Sequence No.: 42
Sample ID: lcs3262
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 7/26/2005 09:19:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcs3262

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: lcs3262

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2094.7	0.388	mg/L	0.0012	0.388	mg/L	0.0012	0.32%
Tl 191	2460.8	0.354	mg/L	0.0006	0.354	mg/L	0.0006	0.18%
Se 196	2199.5	0.358	mg/L	0.0005	0.358	mg/L	0.0005	0.14%
Sb 207	5208.6	0.379	mg/L	0.0000	0.379	mg/L	0.0000	0.01%
Zn 213	101218.6	0.359	mg/L	0.0010	0.359	mg/L	0.0010	0.29%
Cd 214	96270.8	0.356	mg/L	0.0034	0.356	mg/L	0.0034	0.95%
Pb 220	7422.0	0.366	mg/L	0.0038	0.366	mg/L	0.0038	1.04%
Co 229	47520.0	0.364	mg/L	0.0019	0.364	mg/L	0.0019	0.52%
Ni 232	47148.0	0.373	mg/L	0.0006	0.373	mg/L	0.0006	0.15%
Ba 234	808866.2	1.81	mg/L	0.005	1.81	mg/L	0.005	0.28%
Mn 258	852794.4	0.374	mg/L	0.0014	0.374	mg/L	0.0014	0.37%
Fe 260	163967.7	1.84	mg/L	0.030	1.84	mg/L	0.030	1.62%
Cr 268	125464.2	0.371	mg/L	0.0020	0.371	mg/L	0.0020	0.53%
Mg 279	14005.1	1.83	mg/L	0.013	1.83	mg/L	0.013	0.73%
V 292	99924.4	0.371	mg/L	0.0002	0.371	mg/L	0.0002	0.06%
Al 308	38764.7	1.85	mg/L	0.001	1.85	mg/L	0.001	0.05%
Be 313	2536252.6	0.384	mg/L	0.0049	0.384	mg/L	0.0049	1.28%
Ca 318	114743.7	1.83	mg/L	0.017	1.83	mg/L	0.017	0.93%
Cu 325	454751.3	0.374	mg/L	0.0028	0.374	mg/L	0.0028	0.75%
Ag 328	266745.7	0.359	mg/L	0.0002	0.359	mg/L	0.0002	0.05%
Na 590	233815.9	1.92	mg/L	0.020	1.92	mg/L	0.020	1.04%
K 766	59308.4	1.91	mg/L	0.001	1.91	mg/L	0.001	0.04%

Sequence No.: 43
Sample ID: lcd3262
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 7/26/2005 09:26:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcd3262

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: lcd3262

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2115.2	0.392	mg/L	0.0035	0.392	mg/L	0.0035	0.90%
Tl 191	2569.1	0.369	mg/L	0.0019	0.369	mg/L	0.0019	0.51%
Se 196	2182.3	0.355	mg/L	0.0059	0.355	mg/L	0.0059	1.65%
Sb 207	5233.2	0.381	mg/L	0.0049	0.381	mg/L	0.0049	1.30%
Zn 213	101900.1	0.362	mg/L	0.0004	0.362	mg/L	0.0004	0.12%
Cd 214	96398.2	0.357	mg/L	0.0027	0.357	mg/L	0.0027	0.76%
Pb 220	7475.0	0.369	mg/L	0.0014	0.369	mg/L	0.0014	0.38%
Co 229	47712.3	0.366	mg/L	0.0039	0.366	mg/L	0.0039	1.06%
Ni 232	47630.2	0.377	mg/L	0.0016	0.377	mg/L	0.0016	0.43%
Ba 234	820067.6	1.84	mg/L	0.022	1.84	mg/L	0.022	1.20%
Mn 258	857308.8	0.376	mg/L	0.0009	0.376	mg/L	0.0009	0.25%
Fe 260	167730.6	1.88	mg/L	0.006	1.88	mg/L	0.006	0.32%
Cr 268	126060.8	0.373	mg/L	0.0005	0.373	mg/L	0.0005	0.14%
Mg 279	14068.0	1.84	mg/L	0.023	1.84	mg/L	0.023	1.23%
V 292	100118.0	0.372	mg/L	0.0048	0.372	mg/L	0.0048	1.29%
Al 308	38958.3	1.86	mg/L	0.034	1.86	mg/L	0.034	1.80%
Be 313	2540303.9	0.385	mg/L	0.0001	0.385	mg/L	0.0001	0.02%
Ca 318	115416.3	1.84	mg/L	0.010	1.84	mg/L	0.010	0.56%
Cu 325	465908.9	0.383	mg/L	0.0023	0.383	mg/L	0.0023	0.59%
Ag 328	267036.3	0.360	mg/L	0.0023	0.360	mg/L	0.0023	0.65%
Na 590	241688.7	1.98	mg/L	0.021	1.98	mg/L	0.021	1.07%
K 766	59886.4	1.93	mg/L	0.007	1.93	mg/L	0.007	0.38%

Sequence No.: 44
Sample ID: ccv4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/26/2005 09:32:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv4

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: ccv4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2716.0	0.503	mg/L	0.0051	0.503	mg/L	0.0051	1.02%
Tl 191	3478.2	0.500	mg/L	0.0153	0.500	mg/L	0.0153	3.06%
Se 196	2890.1	0.470	mg/L	0.0012	0.470	mg/L	0.0012	0.26%
Sb 207	6822.9	0.497	mg/L	0.0032	0.497	mg/L	0.0032	0.64%
Zn 213	133590.2	0.474	mg/L	0.0004	0.474	mg/L	0.0004	0.08%
Cd 214	127107.1	0.471	mg/L	0.0006	0.471	mg/L	0.0006	0.13%
Pb 220	9568.8	0.472	mg/L	0.0013	0.472	mg/L	0.0013	0.28%
Co 229	61335.8	0.470	mg/L	0.0022	0.470	mg/L	0.0022	0.46%
Ni 232	60649.1	0.480	mg/L	0.0001	0.480	mg/L	0.0001	0.02%
Ba 234	1055600.7	2.36	mg/L	0.013	2.36	mg/L	0.013	0.53%
Mn 258	1093734.4	0.479	mg/L	0.0001	0.479	mg/L	0.0001	0.01%
Fe 260	211380.7	2.37	mg/L	0.006	2.37	mg/L	0.006	0.25%
Cr 268	159694.8	0.473	mg/L	0.0012	0.473	mg/L	0.0012	0.26%
Mg 279	18522.0	2.42	mg/L	0.017	2.42	mg/L	0.017	0.71%
V 292	129064.8	0.479	mg/L	0.0018	0.479	mg/L	0.0018	0.38%

Al 308	50554.1	2.41 mg/L	0.048	2.41 mg/L	0.048	1.99%
Be 313	3188397.4	0.483 mg/L	0.0014	0.483 mg/L	0.0014	0.29%
Ca 318	150481.9	2.40 mg/L	0.002	2.40 mg/L	0.002	0.10%
Cu 325	561492.2	0.462 mg/L	0.0054	0.462 mg/L	0.0054	1.16%
Ag 328	350505.2	0.472 mg/L	0.0014	0.472 mg/L	0.0014	0.29%
Na 590	387640.8	3.18 mg/L	0.020	3.18 mg/L	0.020	0.63%
K 766	79658.2	2.56 mg/L	0.006	2.56 mg/L	0.006	0.22%

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Sequence No.: 45
Sample ID: ccb4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/26/2005 09:38:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb4

Analyte	Back Pressure	Flow
All	140.0 kPa	0.80 L/min

Mean Data: ccb4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-8.6	-0.0016	mg/L	0.00413	-0.0016	mg/L	0.00413	259.33%
Tl 191	35.1	0.0050	mg/L	0.00101	0.0050	mg/L	0.00101	20.12%
Se 196	-15.7	-0.0026	mg/L	0.00292	-0.0026	mg/L	0.00292	111.96%
Sb 207	46.0	0.0034	mg/L	0.00250	0.0034	mg/L	0.00250	73.63%
Zn 213	282.5	0.0010	mg/L	0.00091	0.0010	mg/L	0.00091	90.60%
Cd 214	-290.5	-0.0011	mg/L	0.00031	-0.0011	mg/L	0.00031	28.66%
Pb 220	-44.6	-0.0022	mg/L	0.00065	-0.0022	mg/L	0.00065	29.46%
Co 229	-7.7	-0.0001	mg/L	0.00038	-0.0001	mg/L	0.00038	654.22%
Ni 232	95.1	0.0008	mg/L	0.00273	0.0008	mg/L	0.00273	362.47%
Ba 234	-579.7	-0.0013	mg/L	0.00000	-0.0013	mg/L	0.00000	0.00%
Mn 258	-2050.7	-0.0009	mg/L	0.00023	-0.0009	mg/L	0.00023	25.95%
Fe 260	-472.6	-0.0053	mg/L	0.00000	-0.0053	mg/L	0.00000	0.00%
Cr 268	-94.9	-0.0003	mg/L	0.00065	-0.0003	mg/L	0.00065	231.12%
Mg 279	-109.5	-0.0143	mg/L	0.00487	-0.0143	mg/L	0.00487	33.93%
V 292	-963.7	-0.0036	mg/L	0.00023	-0.0036	mg/L	0.00023	6.32%
Al 308	-277.4	-0.0132	mg/L	0.00654	-0.0132	mg/L	0.00654	49.36%
Be 313	-960.2	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008	52.82%
Ca 318	-234.6	-0.0037	mg/L	0.00717	-0.0037	mg/L	0.00717	191.24%
Cu 325	-1307.0	-0.0011	mg/L	0.00045	-0.0011	mg/L	0.00045	41.90%
Ag 328	936.4	0.0013	mg/L	0.00046	0.0013	mg/L	0.00046	36.49%
Na 590	93213.3	0.765	mg/L	0.0053	0.765	mg/L	0.0053	0.69%
K 766	3462.3	0.111	mg/L	0.0089	0.111	mg/L	0.0089	7.98%

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Sequence No.: 46
Sample ID: G175-491-1E
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 7/26/2005 09:44:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G175-491-1E

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G175-491-1E

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	32.2	0.0065	mg/L	0.00314	0.0065	mg/L	0.00314	48.02%
Tl 191	-33.8	-0.0023	mg/L	0.00395	-0.0023	mg/L	0.00395	175.53%
Se 196	-26.5	-0.0004	mg/L	0.00055	-0.0004	mg/L	0.00055	140.71%
Sb 207	21.6	0.0015	mg/L	0.00541	0.0015	mg/L	0.00541	366.80%
Zn 213	14070.6	0.0497	mg/L	0.00047	0.0497	mg/L	0.00047	0.94%
Cd 214	175.2	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	84.80%
Pb 220	172.9	0.0079	mg/L	0.00094	0.0079	mg/L	0.00094	11.84%
Co 229	4091.4	0.0314	mg/L	0.00068	0.0314	mg/L	0.00068	2.18%

Ni 232	13222.4	0.105 mg/L	0.0010	0.105 mg/L	0.0010	0.96%
Ba 234	52183.5	0.117 mg/L	0.0026	0.117 mg/L	0.0026	2.19%
Mn 258	1458363.9	0.639 mg/L	0.0006	0.639 mg/L	0.0006	0.10%
Fe 260	589701.4	6.61 mg/L	0.006	6.61 mg/L	0.006	0.09%
Cr 268	2813.9	0.0083 mg/L	0.00261	0.0083 mg/L	0.00261	31.37%
Mg 279	66079.4	8.65 mg/L	0.039	8.65 mg/L	0.039	0.45%
V 292	3623.4	0.0135 mg/L	0.00047	0.0135 mg/L	0.00047	3.46%
Al 308	87639.0	4.18 mg/L	0.024	4.18 mg/L	0.024	0.58%
Be 313	2478.2	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	10.71%
Ca 318	1146671.3	18.3 mg/L	0.05	18.3 mg/L	0.05	0.26%
Cu 325	7720.5	0.0064 mg/L	0.00037	0.0064 mg/L	0.00037	5.75%
Ag 328	274.9	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	16.19%
Na 590	688267.2	5.65 mg/L	0.024	5.65 mg/L	0.024	0.42%
K 766	268234.0	8.63 mg/L	0.022	8.63 mg/L	0.022	0.25%

Sequence No.: 47
Sample ID: G175-491-1F ms
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 7/26/2005 09:50:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G175-491-1F ms

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G175-491-1F ms

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2113.0	0.392	mg/L	0.0063	0.392	mg/L	0.0063	1.62%
Tl 191	2526.0	0.366	mg/L	0.0001	0.366	mg/L	0.0001	0.02%
Se 196	2203.0	0.362	mg/L	0.0027	0.362	mg/L	0.0027	0.75%
Sb 207	5037.4	0.367	mg/L	0.0005	0.367	mg/L	0.0005	0.13%
Zn 213	115968.6	0.411	mg/L	0.0043	0.411	mg/L	0.0043	1.03%
Cd 214	96675.9	0.358	mg/L	0.0014	0.358	mg/L	0.0014	0.40%
Pb 220	7675.1	0.378	mg/L	0.0070	0.378	mg/L	0.0070	1.84%
Co 229	52272.4	0.401	mg/L	0.0006	0.401	mg/L	0.0006	0.15%
Ni 232	61871.5	0.490	mg/L	0.0016	0.490	mg/L	0.0016	0.33%
Ba 234	875423.4	1.96	mg/L	0.008	1.96	mg/L	0.008	0.39%
Mn 258	2364590.9	1.04	mg/L	0.002	1.04	mg/L	0.002	0.16%
Fe 260	747088.9	8.38	mg/L	0.066	8.38	mg/L	0.066	0.78%
Cr 268	128091.4	0.379	mg/L	0.0004	0.379	mg/L	0.0004	0.10%
Mg 279	83356.6	10.9	mg/L	0.07	10.9	mg/L	0.07	0.65%
V 292	104011.9	0.386	mg/L	0.0033	0.386	mg/L	0.0033	0.85%
Al 308	130183.7	6.21	mg/L	0.018	6.21	mg/L	0.018	0.29%
Be 313	2548710.1	0.386	mg/L	0.0002	0.386	mg/L	0.0002	0.06%
Ca 318	1306143.0	20.9	mg/L	0.09	20.9	mg/L	0.09	0.43%
Cu 325	482488.2	0.397	mg/L	0.0012	0.397	mg/L	0.0012	0.30%
Ag 328	268002.4	0.361	mg/L	0.0009	0.361	mg/L	0.0009	0.24%
Na 590	947992.5	7.78	mg/L	0.069	7.78	mg/L	0.069	0.89%
K 766	338561.7	10.9	mg/L	0.04	10.9	mg/L	0.04	0.36%

Sequence No.: 48
Sample ID: G175-491-1G msd
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 7/26/2005 09:56:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G175-491-1G msd

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G175-491-1G msd

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2228.6	0.414	mg/L	0.0007	0.414	mg/L	0.0007	0.17%

Tl 191	2626.1	0.380 mg/L	0.0042	0.380 mg/L	0.0042	1.10%
Se 196	2220.6	0.365 mg/L	0.0094	0.365 mg/L	0.0094	2.58%
Sb 207	5169.3	0.376 mg/L	0.0026	0.376 mg/L	0.0026	0.69%
Zn 213	119909.5	0.425 mg/L	0.0005	0.425 mg/L	0.0005	0.11%
Cd 214	102359.8	0.379 mg/L	0.0023	0.379 mg/L	0.0023	0.59%
Pb 220	7968.4	0.393 mg/L	0.0010	0.393 mg/L	0.0010	0.25%
Co 229	54765.6	0.420 mg/L	0.0009	0.420 mg/L	0.0009	0.22%
Ni 232	64708.5	0.512 mg/L	0.0043	0.512 mg/L	0.0043	0.85%
Ba 234	908634.7	2.03 mg/L	0.005	2.03 mg/L	0.005	0.23%
Mn 258	2473480.5	1.08 mg/L	0.008	1.08 mg/L	0.008	0.77%
Fe 260	727000.7	8.15 mg/L	0.026	8.15 mg/L	0.026	0.32%
Cr 268	135564.2	0.401 mg/L	0.0018	0.401 mg/L	0.0018	0.45%
Mg 279	81640.9	10.7 mg/L	0.16	10.7 mg/L	0.16	1.49%
V 292	108932.6	0.405 mg/L	0.0007	0.405 mg/L	0.0007	0.18%
Al 308	127037.2	6.06 mg/L	0.008	6.06 mg/L	0.008	0.14%
Be 313	2693551.3	0.408 mg/L	0.0039	0.408 mg/L	0.0039	0.96%
Ca 318	1289539.6	20.6 mg/L	0.05	20.6 mg/L	0.05	0.24%
Cu 325	490234.8	0.403 mg/L	0.0029	0.403 mg/L	0.0029	0.71%
Ag 328	273537.6	0.368 mg/L	0.0056	0.368 mg/L	0.0056	1.51%
Na 590	934801.2	7.68 mg/L	0.092	7.68 mg/L	0.092	1.19%
K 766	334130.1	10.8 mg/L	0.08	10.8 mg/L	0.08	0.78%

Sequence No.: 49
Sample ID: G132-1383-1I x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 7/26/2005 10:03:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G132-1383-1I x10

Analyte	Back Pressure	Flow
All	142.0 kPa	0.80 L/min

Mean Data: G132-1383-1I x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	15.0	0.0044	mg/L	0.00364	0.0044	mg/L	0.00364	83.46%
Tl 191	-61.9	-0.0044	mg/L	0.00069	-0.0044	mg/L	0.00069	15.74%
Se 196	-21.1	0.0057	mg/L	0.00276	0.0057	mg/L	0.00276	48.05%
Sb 207	34.1	0.0023	mg/L	0.00298	0.0023	mg/L	0.00298	131.03%
Zn 213	15764.6	0.0562	mg/L	0.00045	0.0562	mg/L	0.00045	0.80%
Cd 214	297.8	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	118.94%
Pb 220	253.4	0.0111	mg/L	0.00100	0.0111	mg/L	0.00100	8.98%
Co 229	510.4	0.0039	mg/L	0.00187	0.0039	mg/L	0.00187	47.81%
Ni 232	1109.8	0.0088	mg/L	0.00104	0.0088	mg/L	0.00104	11.88%
Ba 234	6926.7	0.0155	mg/L	0.00059	0.0155	mg/L	0.00059	3.83%
Mn 258	660132.1	0.289	mg/L	0.0005	0.289	mg/L	0.0005	0.16%
Fe 260	1366256.5	15.3	mg/L	0.00	15.3	mg/L	0.00	0.02%
Cr 268	5638.7	0.0167	mg/L	0.00057	0.0167	mg/L	0.00057	3.42%
Mg 279	25953.2	3.40	mg/L	0.018	3.40	mg/L	0.018	0.54%
V 292	7199.4	0.0267	mg/L	0.00047	0.0267	mg/L	0.00047	1.74%
Al 308	200361.1	9.56	mg/L	0.047	9.56	mg/L	0.047	0.49%
Be 313	4200.5	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	12.64%
Ca 318	535793.5	8.56	mg/L	0.045	8.56	mg/L	0.045	0.52%
Cu 325	9438.4	0.0078	mg/L	0.00006	0.0078	mg/L	0.00006	0.73%
Ag 328	144.8	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	157.82%
Na 590	454202.7	3.73	mg/L	0.032	3.73	mg/L	0.032	0.86%
K 766	31521.4	1.01	mg/L	0.002	1.01	mg/L	0.002	0.18%

Sequence No.: 50
Sample ID: G132-1383-1J ms x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 7/26/2005 10:09:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G132-1383-1J ms x10

Analyte	Back Pressure	Flow

All 141.0 kPa 0.80 L/min

Mean Data: G132-1383-1J ms x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	236.7	0.0452	mg/L	0.00001	0.0452	mg/L	0.00001	0.03%
Tl 191	234.9	0.0377	mg/L	0.00004	0.0377	mg/L	0.00004	0.09%
Se 196	240.5	0.0470	mg/L	0.00067	0.0470	mg/L	0.00067	1.43%
Sb 207	128.1	0.0086	mg/L	0.00064	0.0086	mg/L	0.00064	7.50%
Zn 213	27767.8	0.0988	mg/L	0.00048	0.0988	mg/L	0.00048	0.48%
Cd 214	11026.7	0.0401	mg/L	0.00076	0.0401	mg/L	0.00076	1.91%
Pb 220	1076.9	0.0520	mg/L	0.00114	0.0520	mg/L	0.00114	2.19%
Co 229	5725.6	0.0439	mg/L	0.00057	0.0439	mg/L	0.00057	1.30%
Ni 232	6139.3	0.0486	mg/L	0.00099	0.0486	mg/L	0.00099	2.03%
Ba 234	98349.1	0.220	mg/L	0.0029	0.220	mg/L	0.0029	1.30%
Mn 258	729509.8	0.320	mg/L	0.0001	0.320	mg/L	0.0001	0.03%
Fe 260	1182790.1	13.3	mg/L	0.08	13.3	mg/L	0.08	0.63%
Cr 268	19798.3	0.0586	mg/L	0.00093	0.0586	mg/L	0.00093	1.58%
Mg 279	22591.0	2.96	mg/L	0.120	2.96	mg/L	0.120	4.04%
V 292	18043.4	0.0670	mg/L	0.00003	0.0670	mg/L	0.00003	0.04%
Al 308	200644.1	9.58	mg/L	0.385	9.58	mg/L	0.385	4.02%
Be 313	283125.6	0.0429	mg/L	0.00034	0.0429	mg/L	0.00034	0.80%
Ca 318	330371.1	5.28	mg/L	0.292	5.28	mg/L	0.292	5.53%
Cu 325	58429.1	0.0481	mg/L	0.00011	0.0481	mg/L	0.00011	0.23%
Ag 328	30060.3	0.0405	mg/L	0.00025	0.0405	mg/L	0.00025	0.61%
Na 590	470001.7	3.86	mg/L	0.006	3.86	mg/L	0.006	0.16%
K 766	38036.7	1.22	mg/L	0.008	1.22	mg/L	0.008	0.62%

Sequence No.: 51
Sample ID: G132-1383-1K msd x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 7/26/2005 10:15:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G132-1383-1K msd x10

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: G132-1383-1K msd x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	261.3	0.0498	mg/L	0.00078	0.0498	mg/L	0.00078	1.57%
Tl 191	243.6	0.0390	mg/L	0.00531	0.0390	mg/L	0.00531	13.62%
Se 196	197.5	0.0401	mg/L	0.00024	0.0401	mg/L	0.00024	0.59%
Sb 207	36.0	0.0018	mg/L	0.00122	0.0018	mg/L	0.00122	65.89%
Zn 213	26178.7	0.0931	mg/L	0.00004	0.0931	mg/L	0.00004	0.04%
Cd 214	10456.3	0.0380	mg/L	0.00049	0.0380	mg/L	0.00049	1.30%
Pb 220	996.9	0.0480	mg/L	0.00122	0.0480	mg/L	0.00122	2.55%
Co 229	5498.4	0.0422	mg/L	0.00171	0.0422	mg/L	0.00171	4.06%
Ni 232	5850.6	0.0463	mg/L	0.00116	0.0463	mg/L	0.00116	2.51%
Ba 234	92951.0	0.208	mg/L	0.0015	0.208	mg/L	0.0015	0.70%
Mn 258	709051.3	0.311	mg/L	0.0014	0.311	mg/L	0.0014	0.45%
Fe 260	1203764.6	13.5	mg/L	0.03	13.5	mg/L	0.03	0.24%
Cr 268	18717.6	0.0554	mg/L	0.00026	0.0554	mg/L	0.00026	0.46%
Mg 279	25224.2	3.30	mg/L	0.002	3.30	mg/L	0.002	0.07%
V 292	17078.0	0.0634	mg/L	0.00050	0.0634	mg/L	0.00050	0.78%
Al 308	196084.8	9.36	mg/L	0.045	9.36	mg/L	0.045	0.49%
Be 313	276689.9	0.0419	mg/L	0.00037	0.0419	mg/L	0.00037	0.88%
Ca 318	692043.9	11.1	mg/L	0.07	11.1	mg/L	0.07	0.59%
Cu 325	55476.2	0.0456	mg/L	0.00017	0.0456	mg/L	0.00017	0.37%
Ag 328	29237.9	0.0394	mg/L	0.00028	0.0394	mg/L	0.00028	0.70%
Na 590	480566.0	3.95	mg/L	0.002	3.95	mg/L	0.002	0.04%
K 766	39190.7	1.26	mg/L	0.001	1.26	mg/L	0.001	0.04%

Sequence No.: 52
Sample ID: icsA2

Autosampler Location: 8
Date Collected: 7/26/2005 10:21:39 PM

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsA2

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: icsA2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-37.3	0.0027	mg/L	0.00002	0.0027	mg/L	0.00002	0.79%
Tl 191	-254.6	-0.0102	mg/L	0.00367	-0.0102	mg/L	0.00367	36.11%
Se 196	-323.8	0.0056	mg/L	0.00228	0.0056	mg/L	0.00228	40.51%
Sb 207	80.5	0.0059	mg/L	0.00464	0.0059	mg/L	0.00464	78.12%
Zn 213	4473.8	0.0159	mg/L	0.00044	0.0159	mg/L	0.00044	2.76%
Cd 214	928.7	-0.0017	mg/L	0.00022	-0.0017	mg/L	0.00022	12.77%
Pb 220	149.2	-0.0014	mg/L	0.00271	-0.0014	mg/L	0.00271	189.82%
Co 229	9.1	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	209.79%
Ni 232	328.4	0.0026	mg/L	0.00205	0.0026	mg/L	0.00205	78.88%
Ba 234	-1830.7	-0.0041	mg/L	0.00059	-0.0041	mg/L	0.00059	14.50%
Mn 258	1375.0	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.00%
Fe 260	8718649.3	97.7	mg/L	0.20	97.7	mg/L	0.20	0.20%
Cr 268	218.0	0.0006	mg/L	0.00157	0.0006	mg/L	0.00157	243.43%
Mg 279	298239.2	39.0	mg/L	0.02	39.0	mg/L	0.02	0.04%
V 292	-1301.7	-0.0048	mg/L	0.00051	-0.0048	mg/L	0.00051	10.52%
Al 308	2088615.1	99.7	mg/L	0.42	99.7	mg/L	0.42	0.42%
Be 313	71.9	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	>999.9%
Ca 318	2484873.3	39.7	mg/L	0.00	39.7	mg/L	0.00	0.01%
Cu 325	629.3	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	21.76%
Ag 328	-2006.2	-0.0027	mg/L	0.00021	-0.0027	mg/L	0.00021	7.88%
Na 590	-2703.9	-0.0222	mg/L	0.00235	-0.0222	mg/L	0.00235	10.60%
K 766	-65.8	-0.0021	mg/L	0.00202	-0.0021	mg/L	0.00202	95.17%

Sequence No.: 53
Sample ID: icsB2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 7/26/2005 10:27:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsB2

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: icsB2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1508.9	0.289	mg/L	0.0118	0.289	mg/L	0.0118	4.08%
Tl 191	1715.0	0.272	mg/L	0.0008	0.272	mg/L	0.0008	0.30%
Se 196	1347.6	0.276	mg/L	0.0037	0.276	mg/L	0.0037	1.36%
Sb 207	3866.9	0.282	mg/L	0.0001	0.282	mg/L	0.0001	0.05%
Zn 213	83638.8	0.297	mg/L	0.0004	0.297	mg/L	0.0004	0.15%
Cd 214	73324.3	0.266	mg/L	0.0010	0.266	mg/L	0.0010	0.39%
Pb 220	5773.9	0.276	mg/L	0.0006	0.276	mg/L	0.0006	0.23%
Co 229	35258.7	0.270	mg/L	0.0002	0.270	mg/L	0.0002	0.06%
Ni 232	34855.9	0.276	mg/L	0.0016	0.276	mg/L	0.0016	0.60%
Ba 234	409733.4	0.917	mg/L	0.0052	0.917	mg/L	0.0052	0.57%
Mn 258	635654.0	0.279	mg/L	0.0007	0.279	mg/L	0.0007	0.25%
Fe 260	8603049.3	96.4	mg/L	0.35	96.4	mg/L	0.35	0.36%
Cr 268	93838.3	0.278	mg/L	0.0022	0.278	mg/L	0.0022	0.78%
Mg 279	294489.8	38.6	mg/L	0.48	38.6	mg/L	0.48	1.24%
V 292	76294.6	0.283	mg/L	0.0005	0.283	mg/L	0.0005	0.18%
Al 308	2066532.6	98.6	mg/L	0.22	98.6	mg/L	0.22	0.23%
Be 313	1870988.1	0.283	mg/L	0.0001	0.283	mg/L	0.0001	0.04%
Ca 318	2407548.2	38.5	mg/L	0.38	38.5	mg/L	0.38	0.98%
Cu 325	354545.6	0.292	mg/L	0.0022	0.292	mg/L	0.0022	0.75%

Ag 328	205503.5	0.277 mg/L	0.0002	0.277 mg/L	0.0002	0.06%
Na 590	-7335.8	-0.0602 mg/L	0.00008	-0.0602 mg/L	0.00008	0.13%
K 766	-717.9	-0.0231 mg/L	0.00766	-0.0231 mg/L	0.00766	33.17%

Sequence No.: 54
Sample ID: ccv5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/26/2005 10:33:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv5

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: ccv5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2486.0	0.461	mg/L	0.0023	0.461	mg/L	0.0023	0.49%
Tl 191	3220.4	0.463	mg/L	0.0083	0.463	mg/L	0.0083	1.79%
Se 196	2673.4	0.435	mg/L	0.0083	0.435	mg/L	0.0083	1.91%
Sb 207	6364.8	0.464	mg/L	0.0034	0.464	mg/L	0.0034	0.74%
Zn 213	123462.6	0.438	mg/L	0.0032	0.438	mg/L	0.0032	0.72%
Cd 214	124830.2	0.462	mg/L	0.0024	0.462	mg/L	0.0024	0.51%
Pb 220	8927.7	0.441	mg/L	0.0034	0.441	mg/L	0.0034	0.76%
Co 229	58100.2	0.445	mg/L	0.0010	0.445	mg/L	0.0010	0.23%
Ni 232	58529.6	0.463	mg/L	0.0152	0.463	mg/L	0.0152	3.28%
Ba 234	992220.0	2.22	mg/L	0.035	2.22	mg/L	0.035	1.60%
Mn 258	1021863.4	0.448	mg/L	0.0040	0.448	mg/L	0.0040	0.90%
Fe 260	199976.6	2.24	mg/L	0.008	2.24	mg/L	0.008	0.35%
Cr 268	150769.9	0.446	mg/L	0.0031	0.446	mg/L	0.0031	0.70%
Mg 279	17266.7	2.26	mg/L	0.039	2.26	mg/L	0.039	1.71%
V 292	120674.6	0.448	mg/L	0.0081	0.448	mg/L	0.0081	1.81%
Al 308	47981.2	2.29	mg/L	0.000	2.29	mg/L	0.000	0.02%
Be 313	3152835.6	0.477	mg/L	0.0101	0.477	mg/L	0.0101	2.12%
Ca 318	138353.3	2.21	mg/L	0.018	2.21	mg/L	0.018	0.80%
Cu 325	552948.8	0.455	mg/L	0.0291	0.455	mg/L	0.0291	6.39%
Ag 328	337920.4	0.455	mg/L	0.0019	0.455	mg/L	0.0019	0.43%
Na 590	279344.6	2.29	mg/L	0.043	2.29	mg/L	0.043	1.89%
K 766	72130.4	2.32	mg/L	0.007	2.32	mg/L	0.007	0.29%

Sequence No.: 55
Sample ID: ccb5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/26/2005 10:40:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb5

Analyte	Back Pressure	Flow
All	141.0 kPa	0.80 L/min

Mean Data: ccb5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	18.5	0.0034	mg/L	0.00055	0.0034	mg/L	0.00055	16.10%
Tl 191	41.9	0.0060	mg/L	0.00098	0.0060	mg/L	0.00098	16.29%
Se 196	22.9	0.0038	mg/L	0.00262	0.0038	mg/L	0.00262	69.47%
Sb 207	51.0	0.0038	mg/L	0.00092	0.0038	mg/L	0.00092	24.42%
Zn 213	-281.5	-0.0010	mg/L	0.00173	-0.0010	mg/L	0.00173	171.59%
Cd 214	-277.7	-0.0010	mg/L	0.00045	-0.0010	mg/L	0.00045	43.98%
Pb 220	-7.3	-0.0004	mg/L	0.00203	-0.0004	mg/L	0.00203	566.50%
Co 229	-153.0	-0.0012	mg/L	0.00112	-0.0012	mg/L	0.00112	95.77%
Ni 232	143.5	0.0011	mg/L	0.00110	0.0011	mg/L	0.00110	97.10%
Ba 234	-241.2	-0.0005	mg/L	0.00119	-0.0005	mg/L	0.00119	220.05%
Mn 258	-263.0	-0.0001	mg/L	0.00070	-0.0001	mg/L	0.00070	607.58%
Fe 260	-848.9	-0.0095	mg/L	0.00597	-0.0095	mg/L	0.00597	62.69%

Cr 268	-127.5	-0.0004 mg/L	0.00079	-0.0004 mg/L	0.00079	208.15%
Mg 279	13.2	0.0017 mg/L	0.00184	0.0017 mg/L	0.00184	106.28%
V 292	-1304.8	-0.0048 mg/L	0.00106	-0.0048 mg/L	0.00106	21.94%
Al 308	-126.3	-0.0060 mg/L	0.00366	-0.0060 mg/L	0.00366	60.75%
Be 313	149.1	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	251.21%
Ca 318	-685.3	-0.0110 mg/L	0.00000	-0.0110 mg/L	0.00000	0.00%
Cu 325	-2976.5	-0.0024 mg/L	0.00059	-0.0024 mg/L	0.00059	24.12%
Ag 328	178.3	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	51.74%
Na 590	3828.9	0.0314 mg/L	0.00381	0.0314 mg/L	0.00381	12.10%
K 766	15.7	0.0005 mg/L	0.00817	0.0005 mg/L	0.00817	>999.9%

PW
RML

Autosampler Loading List

Sample Information File: 072805A.SIF
Methods: Hg-NaBH4

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
2	Hg	Std 1: 0.200 µg/L
3	Hg	Std 2: 0.500 µg/L
4	Hg	Std 3: 1.000 µg/L
5	Hg	Std 4: 5.000 µg/L
6	Hg	Std 5: 10.00 µg/L
7	Hg	QC Sample 1: 10.0000 µg/L
9	Hg	Sample: cv
10	Hg	Sample: cb
11	Hg	Sample: pb3327
12	Hg	Sample: lcs3327
13	Hg	Sample: lcd3327
14	Hg	Sample: G161-2081-4G-1
15	Hg	Sample: G161-2081-4G-2
16	Hg	Sample: G161-2081-4G-3
17	Hg	Sample: G161-2081-4H ms
18	Hg	Sample: G161-2081-4I msd
19	Hg	Sample: cv
20	Hg	Sample: cb
21	Hg	Sample: G161-2081-5F-1
22	Hg	Sample: G161-2081-5F-2
23	Hg	Sample: G161-2081-5F-3
24	Hg	Sample: G161-2081-6F-1
25	Hg	Sample: G161-2081-6F-2
26	Hg	Sample: G161-2081-6F-3
27	Hg	Sample: G161-2081-7F-1
28	Hg	Sample: G161-2081-7F-2
29	Hg	Sample: G161-2081-7F-3
30	Hg	Sample: cv
31	Hg	Sample: cb
32	Hg	Sample: G546-43-1J-1
33	Hg	Sample: G546-43-1J-2
34	Hg	Sample: G546-43-1J-3
35	Hg	Sample: G546-43-2I-1
36	Hg	Sample: G546-43-2I-2
37	Hg	Sample: G546-43-2I-3
38	Hg	Sample: G161-2081-8F-1
39	Hg	Sample: G161-2081-8F-2
40	Hg	Sample: G161-2081-8F-3
41	Hg	Sample: cv
42	Hg	Sample: cb

Method Name: Hg-NaBH4
Method Description: Hg-SnSl2
Element: Hg

Date: 07/29/2005
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 072805A.SIF Results Data Set Name: 072805a

Element: Hg Seq. No.: 51 AS Loc.: --- Date: 07/29/2005
Sample ID: Sample

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.432	-0.432	-0.0386	0.0015	08:04:17	Yes
Mean:	-0.432	-0.432	-0.0386			
SD :						
%RSD:						

Method Name: Hg-NaBH4
Method Description: Hg-SnSl2
Element: Hg

Date: 07/29/2005
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 072805A.SIF Results Data Set Name: 072805a

Element: Hg Seq. No.: 52 AS Loc.: 1 Date: 07/29/2005
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0369	0.0060	08:06:30	Yes
2			0.0351	0.0057	08:07:06	No
Mean:			0.0360			
SD :			0.0013			
%RSD:			3.5529			

Auto-zero performed.

Element: Hg Seq. No.: 53 AS Loc.: 2 Date: 07/29/2005
Sample ID: Std 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0303	0.0102	08:08:36	Yes
2			0.0235	0.0095	08:09:11	No
Mean:			0.0269			
SD :			0.0048			
%RSD:			17.8371			

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.13470
Intercept : 0.00000

Element: Hg Seq. No.: 54 AS Loc.: 3 Date: 07/29/2005
Sample ID: Std 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0553	0.0138	08:10:44	Yes
2			0.0569	0.0143	08:11:19	No
Mean:			0.0561			
SD :			0.0012			
%RSD:			2.0573			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99578 Slope: 0.11107
Intercept : 0.00177

==========

Element: Hg Seq. No.: 55 AS Loc.: 4 Date: 07/29/2005
Sample ID: Std 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.1085	0.0219	08:12:52	Yes
2			0.0993	0.0200	08:13:27	No
Mean:			0.1039			
SD :			0.0065			
%RSD:			6.2495			

[Hg] Standard number 3 applied. [1.000]
Correlation Coefficient: 0.99776 Slope: 0.10205
Intercept : 0.00338

==========

Element: Hg Seq. No.: 56 AS Loc.: 5 Date: 07/29/2005
Sample ID: Std 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.5052	0.0790	08:15:00	Yes
2			0.5043	0.0793	08:15:36	No
Mean:			0.5048			
SD :			0.0007			
%RSD:			0.1343			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99992 Slope: 0.10018
Intercept : 0.00412

==========

Element: Hg Seq. No.: 57 AS Loc.: 6 Date: 07/29/2005
Sample ID: Std 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.9942	0.1493	08:17:09	Yes
2			0.9944	0.1507	08:17:45	No
Mean:			0.9943			
SD :			0.0001			
%RSD:						

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99997 Slope: 0.09913
Intercept : 0.00510

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0360	---	----	----	----
Std 1	0.0269	0.200	0.220	0.0048	17.8
Std 2	0.0561	0.500	0.515	0.0012	2.1
Std 3	0.1039	1.000	0.997	0.0065	6.2
Std 4	0.5048	5.000	5.040	0.0007	0.1
Std 5	0.9943	10.000	9.979	0.0001	----
Calib Blank	0.0360	---	----	----	----

Correlation Coefficient: 0.99997 Slope: 0.09913 Intercept: 0.0051

Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 07/29/2005
Sample ID: QC Sample 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	10.44	10.44	1.0405	0.1562	08:19:19	Yes
2	10.39	10.39	1.0346	0.1562	08:19:55	No
Mean:	10.42	10.42	1.0375			
SD :	0.0419	0.0419	0.0042			
%RSD:	0.4	0.4	0.4004			

QC value within specified limits.

Element: Hg Seq. No.: 59 AS Loc.: 9 Date: 07/29/2005
Sample ID: cv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.305	5.305	0.5310	0.0828	08:21:26	Yes
2	5.240	5.240	0.5246	0.0825	08:22:02	No
Mean:	5.273	5.273	0.5278			
SD :	0.0457	0.0457	0.0045			
%RSD:	0.9	0.9	0.8588			

Element: Hg Seq. No.: 60 AS Loc.: 10 Date: 07/29/2005
Sample ID: cb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.011	-0.011	0.0040	0.0062	08:23:31	Yes
2	-0.012	-0.012	0.0039	0.0060	08:24:07	No
Mean:	-0.012	-0.012	0.0039			
SD :	0.0003	0.0003	0.0000			
%RSD:	2.8	2.8	0.8138			

Element: Hg Seq. No.: 61 AS Loc.: 11 Date: 07/29/2005
Sample ID: pb3327

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0055	0.0061	08:25:37	Yes
2	-0.033	-0.033	0.0018	0.0061	08:26:12	No
Mean:	-0.015	-0.015	0.0037			
SD :	0.0262	0.0262	0.0026			
%RSD:	180.2	180.2	70.8754			

Element: Hg Seq. No.: 62 AS Loc.: 12 Date: 07/29/2005
Sample ID: lcs3327

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.238	5.238	0.5244	0.0817	08:27:43	Yes
2	4.827	4.827	0.4836	0.0761	08:28:19	No
Mean:	5.033	5.033	0.5040			
SD :	0.2905	0.2905	0.0288			
%RSD:	5.8	5.8	5.7140			

Element: Hg Seq. No.: 63 AS Loc.: 13 Date: 07/29/2005
Sample ID: lcd3327

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.967	4.967	0.4975	0.0781	08:29:52	Yes
2	5.363	5.363	0.5367	0.0837	08:30:27	No
Mean:	5.165	5.165	0.5171			
SD :	0.2801	0.2801	0.0278			
%RSD:	5.4	5.4	5.3685			

Element: Hg Seq. No.: 64 AS Loc.: 14 Date: 07/29/2005
Sample ID: G161-2081-4G-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.328	0.328	0.0376	0.0107	08:32:01	Yes
2	0.246	0.246	0.0295	0.0098	08:32:36	No
Mean:	0.287	0.287	0.0336			
SD :	0.0580	0.0580	0.0057			
%RSD:	20.2	20.2	17.1170			

Element: Hg Seq. No.: 65 AS Loc.: 15 Date: 07/29/2005
Sample ID: G161-2081-4G-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.223	0.223	0.0272	0.0098	08:34:11	Yes
2	0.230	0.230	0.0279	0.0096	08:34:46	No
Mean:	0.226	0.226	0.0275			
SD :	0.0048	0.0048	0.0005			
%RSD:	2.1	2.1	1.7413			

Element: Hg Seq. No.: 66 AS Loc.: 16 Date: 07/29/2005
Sample ID: G161-2081-4G-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.270	0.270	0.0319	0.0103	08:36:22	Yes
2	0.239	0.239	0.0288	0.0099	08:36:57	No
Mean:	0.254	0.254	0.0303			
SD :	0.0221	0.0221	0.0022			
%RSD:	8.7	8.7	7.2122			

Element: Hg Seq. No.: 67 AS Loc.: 17 Date: 07/29/2005
Sample ID: G161-2081-4H ms

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.435	5.435	0.5439	0.0849	08:38:28	Yes

2	5.587	5.587	0.5590	0.0868	08:39:05	No
Mean:	5.511	5.511	0.5514			
SD :	0.1078	0.1078	0.0107			
%RSD:	2.0	2.0	1.9385			

Element: Hg Seq. No.: 68 AS Loc.: 18 Date: 07/29/2005
Sample ID: G161-2081-4I msd

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.749	5.749	0.5750	0.0886	08:40:34	Yes
2	5.550	5.550	0.5553	0.0869	08:41:09	No
Mean:	5.650	5.650	0.5652			
SD :	0.1404	0.1404	0.0139			
%RSD:	2.5	2.5	2.4633			

Element: Hg Seq. No.: 69 AS Loc.: 19 Date: 07/29/2005
Sample ID: cv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.513	5.513	0.5516	0.0854	08:42:38	Yes
2	5.480	5.480	0.5483	0.0856	08:43:13	No
Mean:	5.496	5.496	0.5499			
SD :	0.0231	0.0231	0.0023			
%RSD:	0.4	0.4	0.4168			

Element: Hg Seq. No.: 70 AS Loc.: 20 Date: 07/29/2005
Sample ID: cb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.035	-0.035	0.0016	0.0058	08:44:42	Yes
2	-0.034	-0.034	0.0018	0.0058	08:45:18	No
Mean:	-0.035	-0.035	0.0017			
SD :	0.0012	0.0012	0.0001			
%RSD:	3.6	3.6	7.2971			

Element: Hg Seq. No.: 71 AS Loc.: 21 Date: 07/29/2005
Sample ID: G161-2081-5F-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.325	0.325	0.0373	0.0110	08:46:48	Yes
2	0.324	0.324	0.0372	0.0111	08:47:23	No
Mean:	0.324	0.324	0.0372			
SD :	0.0004	0.0004	0.0000			
%RSD:	0.1	0.1	0.1070			

Element: Hg Seq. No.: 72 AS Loc.: 22 Date: 07/29/2005
Sample ID: G161-2081-5F-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.397	0.397	0.0445	0.0120	08:48:54	Yes
2	0.387	0.387	0.0435	0.0120	08:49:30	No
Mean:	0.392	0.392	0.0440			
SD :	0.0068	0.0068	0.0007			
%RSD:	1.7	1.7	1.5396			

Element: Hg Seq. No.: 73 AS Loc.: 23 Date: 07/29/2005
Sample ID: G161-2081-5F-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.373	0.373	0.0421	0.0118	08:51:01	Yes
2	0.337	0.337	0.0385	0.0110	08:51:36	No
Mean:	0.355	0.355	0.0403			
SD :	0.0260	0.0260	0.0026			
%RSD:	7.3	7.3	6.3972			

Element: Hg Seq. No.: 74 AS Loc.: 24 Date: 07/29/2005
Sample ID: G161-2081-6F-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.144	0.144	0.0193	0.0082	08:53:07	Yes
2	0.145	0.145	0.0195	0.0082	08:53:42	No
Mean:	0.144	0.144	0.0194			
SD :	0.0013	0.0013	0.0001			
%RSD:	0.9	0.9	0.6432			

Element: Hg Seq. No.: 75 AS Loc.: 25 Date: 07/29/2005
Sample ID: G161-2081-6F-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.243	0.243	0.0292	0.0097	08:55:14	Yes
2	0.215	0.215	0.0264	0.0094	08:55:49	No
Mean:	0.229	0.229	0.0278			
SD :	0.0200	0.0200	0.0020			
%RSD:	8.7	8.7	7.1382			

Element: Hg Seq. No.: 76 AS Loc.: 26 Date: 07/29/2005
Sample ID: G161-2081-6F-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.250	0.250	0.0299	0.0099	08:57:21	Yes
2	0.253	0.253	0.0302	0.0100	08:57:56	No
Mean:	0.252	0.252	0.0301			
SD :	0.0020	0.0020	0.0002			
%RSD:	0.8	0.8	0.6636			

Element: Hg Seq. No.: 77 AS Loc.: 27 Date: 07/29/2005
Sample ID: G161-2081-7F-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.445	1.445	0.1484	0.0270	08:59:30	Yes
2	1.385	1.385	0.1424	0.0266	09:00:05	No
Mean:	1.415	1.415	0.1454			
SD :	0.0429	0.0429	0.0043			
%RSD:	3.0	3.0	2.9281			

Element: Hg Seq. No.: 78 AS Loc.: 28 Date: 07/29/2005
Sample ID: G161-2081-7F-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.315	1.315	0.1355	0.0250	09:01:38	Yes

2	1.365	1.365	0.1404	0.0262	09:02:14	No
Mean:	1.340	1.340	0.1380			
SD :	0.0352	0.0352	0.0035			
%RSD:	2.6	2.6	2.5303			

Element: Hg Seq. No.: 79 AS Loc.: 29 Date: 07/29/2005
Sample ID: G161-2081-7F-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.359	1.359	0.1398	0.0258	09:03:48	Yes
2	1.279	1.279	0.1319	0.0243	09:04:23	No
Mean:	1.319	1.319	0.1358			
SD :	0.0568	0.0568	0.0056			
%RSD:	4.3	4.3	4.1467			

Element: Hg Seq. No.: 80 AS Loc.: 30 Date: 07/29/2005
Sample ID: cv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.534	5.534	0.5537	0.0858	09:05:57	Yes
2	5.405	5.405	0.5409	0.0843	09:06:32	No
Mean:	5.469	5.469	0.5473			
SD :	0.0913	0.0913	0.0091			
%RSD:	1.7	1.7	1.6537			

Element: Hg Seq. No.: 81 AS Loc.: 31 Date: 07/29/2005
Sample ID: cb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.014	-0.014	0.0038	0.0061	09:08:07	Yes
2	-0.015	-0.015	0.0036	0.0062	09:08:42	No
Mean:	-0.014	-0.014	0.0037			
SD :	0.0011	0.0011	0.0001			
%RSD:	7.5	7.5	2.8833			

Element: Hg Seq. No.: 82 AS Loc.: 32 Date: 07/29/2005
Sample ID: G546-43-1J-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.278	0.278	0.0327	0.0102	09:10:13	Yes
2	0.274	0.274	0.0323	0.0102	09:10:49	No
Mean:	0.276	0.276	0.0325			
SD :	0.0028	0.0028	0.0003			
%RSD:	1.0	1.0	0.8661			

Element: Hg Seq. No.: 83 AS Loc.: 33 Date: 07/29/2005
Sample ID: G546-43-1J-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.287	0.287	0.0336	0.0105	09:12:17	Yes
2	0.285	0.285	0.0334	0.0106	09:12:53	No
Mean:	0.286	0.286	0.0335			
SD :	0.0015	0.0015	0.0001			
%RSD:	0.5	0.5	0.4311			

Element: Hg Seq. No.: 84 AS Loc.: 34 Date: 07/29/2005
Sample ID: G546-43-1J-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.356	0.356	0.0404	0.0115	09:14:22	Yes
2	0.325	0.325	0.0373	0.0110	09:14:57	No
Mean:	0.341	0.341	0.0389			
SD :	0.0225	0.0225	0.0022			
%RSD:	6.6	6.6	5.7350			

Element: Hg Seq. No.: 85 AS Loc.: 35 Date: 07/29/2005
Sample ID: G546-43-2I-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.508	0.508	0.0554	0.0134	09:16:26	Yes
2	0.421	0.421	0.0468	0.0124	09:17:01	No
Mean:	0.464	0.464	0.0511			
SD :	0.0616	0.0616	0.0061			
%RSD:	13.3	13.3	11.9420			

Element: Hg Seq. No.: 86 AS Loc.: 36 Date: 07/29/2005
Sample ID: G546-43-2I-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.370	0.370	0.0418	0.0118	09:18:30	Yes
2	0.376	0.376	0.0424	0.0120	09:19:05	No
Mean:	0.373	0.373	0.0421			
SD :	0.0045	0.0045	0.0004			
%RSD:	1.2	1.2	1.0553			

Element: Hg Seq. No.: 87 AS Loc.: 37 Date: 07/29/2005
Sample ID: G546-43-2I-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.443	0.443	0.0490	0.0126	09:20:34	Yes
2	0.450	0.450	0.0498	0.0132	09:21:10	No
Mean:	0.447	0.447	0.0494			
SD :	0.0053	0.0053	0.0005			
%RSD:	1.2	1.2	1.0629			

Element: Hg Seq. No.: 88 AS Loc.: 38 Date: 07/29/2005
Sample ID: G161-2081-8F-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.246	0.246	0.0294	0.0098	09:22:40	Yes
2	0.241	0.241	0.0290	0.0100	09:23:15	No
Mean:	0.243	0.243	0.0292			
SD :	0.0032	0.0032	0.0003			
%RSD:	1.3	1.3	1.0813			

Element: Hg Seq. No.: 89 AS Loc.: 39 Date: 07/29/2005
Sample ID: G161-2081-8F-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.281	0.281	0.0329	0.0105	09:24:45	Yes

2	0.292	0.292	0.0341	0.0107	09:25:21	No
Mean:	0.287	0.287	0.0335			
SD :	0.0082	0.0082	0.0008			
%RSD:	2.9	2.9	2.4266			

==========

Element: Hg Seq. No.: 90 AS Loc.: 40 Date: 07/29/2005
Sample ID: G161-2081-8F-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.142	0.142	0.0191	0.0085	09:26:52	Yes
2	0.187	0.187	0.0236	0.0090	09:27:28	No
Mean:	0.164	0.164	0.0214			
SD :	0.0321	0.0321	0.0032			
%RSD:	19.5	19.5	14.8743			

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Element: Hg Seq. No.: 91 AS Loc.: 41 Date: 07/29/2005
Sample ID: cv

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.454	5.454	0.5457	0.0852	09:28:59	Yes
2	5.135	5.135	0.5141	0.0808	09:29:34	No
Mean:	5.294	5.294	0.5299			
SD :	0.2255	0.2255	0.0224			
%RSD:	4.3	4.3	4.2189			

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Element: Hg Seq. No.: 92 AS Loc.: 42 Date: 07/29/2005
Sample ID: cb

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.018	-0.018	0.0033	0.0062	09:31:06	Yes
2	-0.019	-0.019	0.0032	0.0062	09:31:42	No
Mean:	-0.018	-0.018	0.0033			
SD :	0.0006	0.0006	0.0001			
%RSD:	3.5	3.5	1.9336			

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Element: Hg Seq. No.: 93 AS Loc.: 7 Date: 07/29/2005
Sample ID: QC Sample 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	11.10	11.10	1.1055	0.1644	09:33:16	Yes
Sample absorbance is greater than that of the highest standard.						
2	11.02	11.02	1.0972	0.1646	09:33:51	No
Sample absorbance is greater than that of the highest standard.						
Mean:	11.06	11.06	1.1013			
SD :	0.0591	0.0591	0.0059			
%RSD:	0.5	0.5	0.5323			

Sample absorbance is greater than that of the highest standard.
QC value within specified limits.

Metals Prep, Standard, Run Logs

Prep Report for Batch 3300 (METALS/3050/SOIL) on 2005-07-26

Sample ID (GCCODE)	EXT	InitWt	QCSpikeID	QCSpikeVol	FinalVol	HNO3Lot	HClLot	H2SO4Lot	Temp	Time	Analyst
G161-2048-16E (145368)		0.60			50	45105	45105		95.3	10:45	psw
G161-2048-16F (145369)	MS	0.52	0725-371,0725-372	1	50	45105	45105		95.3	10:45	psw
G161-2048-16G (145370)	MSD	0.52	0725-371,0725-372	1	50	45105	45105		95.3	10:45	psw
G161-2048-19E (145371)		0.55			50	45105	45105		95.3	10:45	psw
G161-2078-10C (145372)		0.53			50	45105	45105		95.3	10:45	psw
G161-2078-11K (145373)		0.58			50	45105	45105		95.3	10:45	psw
G161-2081-4D (145375)		0.56			50	45105	45105		95.3	10:45	psw
G161-2081-5D (145376)		0.55			50	45105	45105		95.3	10:45	psw
G161-2081-6D (145377)		0.58			50	45105	45105		95.3	10:45	psw
G161-2081-7D (145378)		0.57			50	45105	45105		95.3	10:45	psw
G161-2081-8D (145379)		0.52			50	45105	45105		95.3	10:45	psw
G161-2081-8E (145380)	DUP	0.56			50	45105	45105		95.3	10:45	psw
G161-2084-1C (145374)		0.52			50	45105	45105		95.3	10:45	psw
lcd3300	LCD	0.50	0725-371,0725-372	1	50	45105	45105		95.3	10:45	psw
lcs3300	LCS	0.50	0725-371,0725-372	1	50	45105	45105		95.3	10:45	psw
pb3300	PB	0.50			50	45105	45105		95.3	10:45	psw

Prep Report for Batch 3327 (MERCURY/7471/SOIL) on 2005-07-28

Sample ID (GCCODE)	EXT	QCSpikeID	QCSpikeVol	FinalVol	HNO3Lot	HClLot	H2SO4Lot	Temp	Time	InitWt-1	InitWt-2	InitWt-3	Analyst
G161-2081-4G (146650)				50	45105	45105		95	14:30	0.53	0.56	0.54	rml
G161-2081-4H (146651)	ms	D-092,D-095	1	50	45105	45105		95	14:30	0.51			rml
G161-2081-4I (146652)	msd	D-092,D-095	1	50	45105	45105		95	14:30	0.50			rml
G161-2081-5F (146653)				50	45105	45105		95	14:30	0.58	0.55	0.52	rml
G161-2081-6F (146654)				50	45105	45105		95	14:30	0.58	0.51	0.58	rml
G161-2081-7F (146655)				50	45105	45105		95	14:30	0.53	0.53	0.51	rml
G161-2081-8G (146656)				50	45105	45105		95	14:30	0.51	0.52	0.52	rml
G546-43-1J (146657)				50	45105	45105		95	14:30	0.57	0.52	0.50	rml
G546-43-2I (146658)				50	45105	45105		95	14:30	0.53	0.51	0.56	rml
lcd3327	lcd	D-092,D-095	1	50	45105	45105		95	14:30	.5			rml
lcs3327	lcs	D-092,D-095	1	50	45105	45105		95	14:30	.5			rml
pb3327	pb			50	45105	45105		95	14:30	.5			rml

Paradigm Analytical Labs

Inorganics Calibration Standards Log

Analyst	Date Made	Analysis	Standard Type	Batch ID	Source	Acid Lot #	Date Expires
RWL	7-15-05	6010 TAL	CB	MS071505-1	Barnstead	44313	7-22-05
			S1		0516-354		
			S2				
			S3		0516-355		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0516-354		
RSW	7-18-05	6010 TAL	CB	OES071805-1	Barnstead	45105	7-25-05
			S1		0620-360		
			S2		0620-361, 0620-362, S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
RWL	7-25-05	6020 TAL	CB	MS072505-1	Barnstead	44313	8-1-05
			S1		0725-367		
			S2				
			S3		0725-370		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0725-367		
RSW	7-26-05	6010 TAL	CB	OES072605-1	Barnstead	45105	8-2-05
			S1		0620-360		
			S2		0620-331, 0620-332, S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
			Ag1CHK		0620-364		

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2083

Client Project: Dwiggins Property

Dear Mr. Ricks:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

8/11/05

Laboratory Director Date
J. Patrick Weaver

CASE NARRATIVE

Date: November 8, 2005

ECS Project ID: Dwiggins Property
Paradigm Analytical ID: G161-2083

Three water samples and trip blank were received at the laboratory July 23 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

All extractions and analyses were completed with in holding time. The following discussion summarizes quality control results and exceptions by parameter.

8260

All samples passed surrogate spike limits..

All MS/MSD pairs and LCSs passed recovery limits for the method required spiking compounds.

625 BN

All samples passed surrogate spike limits.

MS/MSD and LCS passed all acceptance limits for method required spiking compounds.

VPH

The sample passed surrogate spike limits.

The MS/MSD pais passed acceptance limits.

The LCSs passed acceptance limits.

EPH

The samples passed surrogate spike limits.

The MS had high recovery for C9 to C18 aliphatics while the other fractions passed limits. The MSD passed all limits. The difference between the MS and MSD appears to be due to sample non-homogeneity.

The data was validated with the passing LCSs recoveries

Metals

The MS/MSD and LCS/LCD pairs passed all recovery criteria.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47800

Page 1 of 1

Client: ECS, Ltd
Address: 6909 International Dr, Ste 103
Address: Greensboro, NC 27409
Quote #: 1842

Project ID: Driggins Property
Contact: Jason Ricles
Phone: (336)-856-7150
Fax: 856-7160

Date: 7/22/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:

Report To: jricles@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	HCL	HNO_3		Analyses: 6210D	VPH	EPH	625 BN + 10 TIC	Total RCRA metals					
DMW-1	7/22/05	12:15	GW	X	X	X		X	X	X	X	X					
DMW-2	↓	11:15	GW	X	X	X		X			X	X					
Dup-4	↓	—	GW		X			X									
Trip Blank	↓	—	—		X			X									

Comments: Please specify any special reporting requirements

City of Greensboro Project

G161-2083

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	7/22/05	4:30	[signature]	7/23/05	1035	0.7°C

State Certification Requested: NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	**5.09**	0.500	1	7/26/2005
1,1-Dichloroethene	**2.51**	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	**1.41**	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**25.1**	0.500	1	7/26/2005
Toluene	**0.540**	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	**1.56**	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.45	95
1,2-Dichloroethane-d4	10	8.82	88
Toluene-d8	10	9.82	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	5.00	10	7/26/2005
Bromobenzene	BQL	5.00	10	7/26/2005
Bromochloromethane	BQL	5.00	10	7/26/2005
Bromodichloromethane	BQL	5.00	10	7/26/2005
Bromoform	BQL	5.00	10	7/26/2005
Bromomethane	BQL	5.00	10	7/26/2005
n-Butylbenzene	BQL	5.00	10	7/26/2005
sec-Butylbenzene	BQL	5.00	10	7/26/2005
tert-Butylbenzene	BQL	5.00	10	7/26/2005
Carbon tetrachloride	BQL	5.00	10	7/26/2005
Chlorobenzene	BQL	5.00	10	7/26/2005
Chloroethane	BQL	5.00	10	7/26/2005
Chloroform	BQL	5.00	10	7/26/2005
Chloromethane	BQL	5.00	10	7/26/2005
2-Chlorotoluene	BQL	5.00	10	7/26/2005
4-Chlorotoluene	BQL	5.00	10	7/26/2005
Dibromochloromethane	BQL	5.00	10	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	50.0	10	7/26/2005
Dibromomethane	BQL	5.00	10	7/26/2005
1,2-Dibromoethane (EDB)	BQL	5.00	10	7/26/2005
1,2-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,3-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,4-Dichlorobenzene	BQL	5.00	10	7/26/2005
1,1-Dichloroethane	**6.20**	5.00	10	7/26/2005
1,1-Dichloroethene	BQL	5.00	10	7/26/2005
1,2-Dichloroethane	BQL	5.00	10	7/26/2005
cis-1,2-Dichloroethene	BQL	5.00	10	7/26/2005
trans-1,2-dichloroethene	BQL	5.00	10	7/26/2005
1,2-Dichloropropane	BQL	5.00	10	7/26/2005
1,3-Dichloropropane	BQL	5.00	10	7/26/2005
2,2-Dichloropropane	BQL	5.00	10	7/26/2005
1,1-Dichloropropene	BQL	5.00	10	7/26/2005
Dichlorodifluoromethane	BQL	50.0	10	7/26/2005
Diisopropyl ether (DIPE)	BQL	5.00	10	7/26/2005
Ethylbenzene	BQL	5.00	10	7/26/2005
Hexachlorobutadiene	BQL	5.00	10	7/26/2005
Isopropylbenzene	BQL	5.00	10	7/26/2005
4-Isopropyltoluene	BQL	5.00	10	7/26/2005
Methylene chloride	BQL	50.0	10	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	10	7/26/2005
Naphthalene	BQL	5.00	10	7/26/2005
n-Propyl benzene	BQL	5.00	10	7/26/2005
Styrene	BQL	5.00	10	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	10	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	10	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**103**	5.00	10	7/26/2005
Toluene	BQL	5.00	10	7/26/2005
1,2,3-Trichlorobenzene	BQL	5.00	10	7/26/2005
1,2,4-Trichlorobenzene	BQL	5.00	10	7/26/2005
Trichloroethene	BQL	5.00	10	7/26/2005
1,1,1-Trichloroethane	BQL	5.00	10	7/26/2005
1,1,2-Trichloroethane	BQL	5.00	10	7/26/2005
Trichlorofluoromethane	BQL	5.00	10	7/26/2005
1,2,3-Trichloropropane	BQL	5.00	10	7/26/2005
1,2,4-Trimethylbenzene	BQL	5.00	10	7/26/2005
1,3,5-Trimethylbenzene	BQL	5.00	10	7/26/2005
Vinyl chloride	BQL	5.00	10	7/26/2005
m-,p-Xylene	BQL	10.0	10	7/26/2005
o-Xylene	BQL	5.00	10	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.68	97
1,2-Dichloroethane-d4	10	8.99	90
Toluene-d8	10	9.84	98

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By:

Results for Volatiles
by GCMS 6210D

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-3A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	**5.22**	0.500	1	7/26/2005
1,1-Dichloroethene	**2.60**	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	**1.45**	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-3A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	**25.6**	0.500	1	7/26/2005
Toluene	**0.560**	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	**1.63**	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.45	95
1,2-Dichloroethane-d4	10	9.13	91
Toluene-d8	10	9.85	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: LS

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-4A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0.500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0.500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	BQL	0.500	1	7/26/2005
1,1-Dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	BQL	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-4A
Lab Project ID: G161-2083

Analyzed By: JTF
Date Collected: 7/22/2005 0:00
Date Received: 7/23/2005
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	BQL	0.500	1	7/26/2005
Toluene	BQL	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	BQL	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.42	94
1,2-Dichloroethane-d4	10	8.69	87
Toluene-d8	10	9.88	99

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1072605B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.500	1	7/26/2005
Bromobenzene	BQL	0.500	1	7/26/2005
Bromochloromethane	BQL	0.500	1	7/26/2005
Bromodichloromethane	BQL	0.500	1	7/26/2005
Bromoform	BQL	0 500	1	7/26/2005
Bromomethane	BQL	0.500	1	7/26/2005
n-Butylbenzene	BQL	0.500	1	7/26/2005
sec-Butylbenzene	BQL	0.500	1	7/26/2005
tert-Butylbenzene	BQL	0 500	1	7/26/2005
Carbon tetrachloride	BQL	0.500	1	7/26/2005
Chlorobenzene	BQL	0.500	1	7/26/2005
Chloroethane	BQL	0.500	1	7/26/2005
Chloroform	BQL	0.500	1	7/26/2005
Chloromethane	BQL	0.500	1	7/26/2005
2-Chlorotoluene	BQL	0.500	1	7/26/2005
4-Chlorotoluene	BQL	0.500	1	7/26/2005
Dibromochloromethane	BQL	0.500	1	7/26/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/26/2005
Dibromomethane	BQL	0.500	1	7/26/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/26/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/26/2005
1,1-Dichloroethane	BQL	0.500	1	7/26/2005
1,1-Dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloroethane	BQL	0.500	1	7/26/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/26/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/26/2005
1,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,3-Dichloropropane	BQL	0.500	1	7/26/2005
2,2-Dichloropropane	BQL	0.500	1	7/26/2005
1,1-Dichloropropene	BQL	0.500	1	7/26/2005
Dichlorodifluoromethane	BQL	5.00	1	7/26/2005
Diisopropyl ether (DIPE)	BQL	0.500	1	7/26/2005
Ethylbenzene	BQL	0.500	1	7/26/2005
Hexachlorobutadiene	BQL	0.500	1	7/26/2005
Isopropylbenzene	BQL	0.500	1	7/26/2005
4-Isopropyltoluene	BQL	0.500	1	7/26/2005
Methylene chloride	BQL	5.00	1	7/26/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/26/2005
Naphthalene	BQL	0.500	1	7/26/2005
n-Propyl benzene	BQL	0.500	1	7/26/2005
Styrene	BQL	0.500	1	7/26/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/26/2005
1,1,2,2-Tetrachloroethane	BQL	0 500	1	7/26/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1072605B
Lab Project ID:

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	Dilution Factor	Date Analyzed
Tetrachloroethene	BQL	0.500	1	7/26/2005
Toluene	BQL	0.500	1	7/26/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/26/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/26/2005
Trichloroethene	BQL	0.500	1	7/26/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/26/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/26/2005
Trichlorofluoromethane	BQL	0.500	1	7/26/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/26/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/26/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/26/2005
Vinyl chloride	BQL	0.500	1	7/26/2005
m-,p-Xylene	BQL	1.00	1	7/26/2005
o-Xylene	BQL	0.500	1	7/26/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	9.43	94
1,2-Dichloroethane-d4	10	8.76	88
Toluene-d8	10	9.86	99

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	DMW-1	98	95	88		0
02	G161-2083-2A MS	99.0	95.0	86.0		0
03	G161-2083-2A MSD	99.0	93.0	85.0		0
04	LCS1072605A	99.0	94.8	87.0		0
05	VBLK1072605B	99	94	88		0
06	DMW-2	98	97	90		0
07	DUP-4	98	95	91		0
08	TRIP BLANK	99	94	87		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(75-125)
SMC2 (BFB) = Bromofluorobenzene	(75-125)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(75-125)

Column to be used to flag recovery values.

* Values outside of contract required QC limits

Paradigm Analytical Laboratories, INC.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2083-2A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	250	176	70.5	250	170	67.8	3.82	30	17.7-85.2
acrolein	BQL	1250	905	72.4	1250	956	76.4	5.40	30	NA-424
acrylonitrile	BQL	1250	1010	80.5 *	1250	1100	87.8	8.63	30	85.0-175
benzene	BQL	50.0	56.3	113	50.0	52.2	104	7.56	30	61.6-135
bromobenzene	BQL	50.0	49.8	99.6	50.0	46.2	92.4	7.50	30	65.1-125
bromochloromethane	BQL	50.0	52.0	104	50.0	49.6	99.2	4.72	30	75.5-126
bromodichloromethane	BQL	50.0	47.3	94.6	50.0	43.9	87.8	7.46	30	74.3-123
bromoform	BQL	50.0	37.6	75.2	50.0	32.5	65.0	14.6	30	52.3-122
bromomethane	BQL	50.0	54.3	108	50.0	48.1	96.2	12.1	30	10.0-284
2-butanone	BQL	250	205	82.2	250	190	76.2	7.58	30	36.1-107
n-butylbenzene	BQL	50.0	52.4	105	50.0	49.8	99.6	5.09	30	70.2-124
sec-butylbenzene	BQL	50.0	53.4	107	50.0	50.0	100	6.58	30	62.0-133
tert-butylbenzene	BQL	50.0	50.6	101	50.0	47.9	95.8	5.48	30	73.5-121
Carbon disulfide	BQL	50.0	54.8	110	50.0	50.2	100	8.76	30	68.8-129
carbon tetrachloride	BQL	50.0	45.1	90.2	50.0	42.2	84.4	6.64	30	71.8-122
chlorobenzene	BQL	50.0	51.9	104	50.0	47.5	95.0	8.85	30	77.2-118
chloroethane	BQL	50.0	49.6	99.2	50.0	44.9	89.8	9.95	30	10.0-233
2-chloroethyl vinyl ether	BQL	125	0.00	0.00	125	0.00	0.00	--	30	NA-283
chloroform	BQL	50.0	49.9	99.8	50.0	46.9	93.8	6.20	30	74.0-128
chloromethane	BQL	50.0	45.1	90.2	50.0	46.9	93.8	3.91	30	72.0-138
2-chlorotoluene	BQL	50.0	52.0	104	50.0	50.6	101	2.73	30	79.3-118
4-chlorotoluene	BQL	50.0	53.9	108	50.0	49.8	99.6	7.91	30	76.8-120
dibromochloromethane	BQL	50.0	46.1	92.2	50.0	41.5	83.0	10.5	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	250	207	82.8	250	184	73.6	11.7	30	20.2-171
1,2-dibromomethane	BQL	50.0	52.2	104	50.0	50.3	101	3.71	30	78.5-123
dibromomethane	BQL	50.0	53.2	106	50.0	48.2	96.4	9.86	30	71.3-137
1,2-dichlorobenzene	BQL	50.0	52.6	105	50.0	48.6	97.2	7.90	30	75.1-120
1,3-dichlorobenzene	BQL	50.0	53.3	106	50.0	48.2	96.4	10.0	30	73.1-121
1,4-dichlorobenzene	BQL	50.0	52.5	105	50.0	48.8	97.6	7.30	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	250	140	56.2	250	113	45.3	21.4	30	25.7-149
dichlorodifluoromethane	BQL	50.0	38.4	76.8	50.0	40.1	80.2	4.33	30	41.7-166
1,1-dichloroethane	BQL	50.0	52.3	105	50.0	48.9	97.8	6.72	30	75.6-128
1,2-dichloroethane	BQL	50.0	46.3	92.6	50.0	43.2	86.4	6.93	30	71.1-127
1,1-dichloroethene	BQL	50.0	55.7	111	50.0	49.6	99.2	11.6	30	64.4-130
cis-1,2-dichloroethene	BQL	50.0	55.5	111	50.0	52.0	104	6.51	30	72.7-134
trans-1,2-dichloroethene	BQL	50.0	55.1	110	50.0	50.6	101	8.51	30	74.6-124
1,2-dichloropropane	BQL	50.0	53.6	107	50.0	49.7	99.4	7.55	30	76.5-129
1,3-dichloropropane	BQL	50.0	53.3	106	50.0	47.9	95.8	10.7	30	79.1-121
2,2-dichloropropane	BQL	50.0	43.6	87.2	50.0	40.2	80.4	8.11	30	31.5-157
1,1-dichloropropene	BQL	50.0	52.7	105	50.0	49.4	98.8	6.46	30	72.5-120
cis-1,3-dichloropropene	BQL	50.0	51.2	102	50.0	46.9	93.8	8.77	30	66.6-132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 1 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2083-2A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	48.1	96.2	50.0	44.1	88.2	8.68	30	44.7-144
Diisopropyl ether	BQL	50.0	53.0	106	50.0	49.8	99.6	6.22	30	79.4-122
ethylbenzene	BQL	50.0	57.4	115	50.0	52.5	105	8.92	30	73.8-126
hexachlorobutadiene	BQL	50.0	43.4	86.8	50.0	42.1	84.2	3.04	30	51.8-134
2-hexanone	BQL	250	216	86.3	250	200	80.0	7.60	30	41.6-111
Iodomethane	BQL	50.0	45.7	91.4	50.0	45.2	90.4	1.10	30	40.6-126
isopropylbenzene	BQL	50.0	53.9	108	50.0	49.5	99.0	8.51	30	74.3-123
4-isopropyltoluene	BQL	50.0	51.0	102	50.0	47.9	95.8	6.27	30	74.6-122
Methyl-tert-butyl ether	BQL	50.0	54.6	109	50.0	51.2	102	6.43	30	66.5-136
methylene chloride	BQL	50.0	54.0	108	50.0	51.1	102	5.52	30	48.6-155
4-methyl-2-pentanone	BQL	250	240	96.0	250	223	89.3	7.25	30	6.88-166
naphthalene	BQL	50.0	57.1	114	50.0	51.5	103	10.3	30	55.1-140
n-propyl benzene	BQL	50.0	54.7	109	50.0	50.9	102	7.20	30	71.6-128
styrene	BQL	50.0	55.7	111	50.0	51.2	102	8.42	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	50.0	47.8	95.6	50.0	43.6	87.2	9.19	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	50.0	54.8	110	50.0	47.5	95.0	14.3	30	75.7-136
tetrachloroethene	103	50.0	44.7	89.4	50.0	36.8	73.6	19.4	30	45.8-153
toluene	BQL	50.0	54.4	109	50.0	50.8	102	6.84	30	66.4-128
1,2,3-trichlorobenzene	BQL	50.0	41.2	82.4	50.0	44.5	89.0	7.70	30	61.0-126
1,2,4-trichlorobenzene	BQL	50.0	46.3	92.6	50.0	45.8	91.6	1.08	30	60.6-125
1,1,1-trichloroethane	BQL	50.0	46.6	93.2	50.0	43.7	87.4	6.42	30	78.4-121
1,1,2-trichloroethane	BQL	50.0	54.2	108	50.0	49.6	99.2	8.86	30	64.8-128
trichloroethene	BQL	50.0	53.4	107	50.0	49.8	99.6	6.98	30	84.9-136
trichlorofluoromethane	BQL	50.0	41.6	83.2	50.0	42.0	84.0	0.957	30	76.8-132
1,2,3-trichloropropane	BQL	50.0	36.6	73.2	50.0	32.7	65.4	11.2	30	10.0-218
1,2,4-trimethylbenzene	BQL	50.0	55.7	111	50.0	51.2	102	8.42	30	31.0-172
1,3,5-trimethylbenzene	BQL	50.0	53.8	108	50.0	50.3	101	6.72	30	67.7-132
Vinyl acetate	BQL	125	118	94.8	125	112	89.6	5.64	30	NA-355
vinyl chloride	BQL	50.0	45.2	90.4	50.0	46.9	93.8	3.69	30	68.1-137
m/p-xylene	BQL	100	111	111	100	104	104	6.80	30	79.8-118
o-xylene	BQL	50.0	57.1	114	50.0	51.7	103	9.93	30	80.0-121

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 1 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1072605B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0726106.D Lab Sample ID: VBLK1072605B

Date Analyzed: 07/26/05 Time Analyzed: 10:11

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) N

Instrument ID: MSD1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	G161-2083-4A	0726107.D	07/26 10:42
02	DMW-1	G161-2083-1A	0726108.D	07/26 11:14
03	DUP-4	G161-2083-3A	0726109.D	07/26 11:45
04	DMW-2	G161-2083-2A	0726110.D	07/26 12:17
05	DMW-2	G161-2083-2A	0726110.D	07/26 12:17
06	G161-2083-2A MS	G161-2083-2A MS	0726122.D	07/26 18:34
07	G161-2083-2A MSD	G161-2083-2A MSD	0726123.D	07/26 19:05
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COMMENTS:

Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0726101.D BFB Injection Date: 07/26/05

Instrument ID: MSD1 BFB Injection Time: 07:34

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	16.2	Y
75	30.0 - 60.0% of mass 95	33.8	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.9	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	75.3	Y
175	5.0 - 9.0% of mass 174	7.4	Y
176	95.0 - 101.0% of mass 174	95.9	Y
177	5.0 - 9.0% of mass 176	6.6	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCHK005	QCHK005	0726103.D	07/26/05	08:36
02	LCS1072605A	LCS1072605A	0726104.D	07/26/05	09:08
03	VBLK1072605B	VBLK1072605B	0726106.D	07/26/05	10:11
04	TRIP BLANK	G161-2083-4A	0726107.D	07/26/05	10:42
05	DMW-1	G161-2083-1A	0726108.D	07/26/05	11:14
06	DUP-4	G161-2083-3A	0726109.D	07/26/05	11:45
07	DMW-2	G161-2083-2A	0726110.D	07/26/05	12:17
08	DMW-2	G161-2083-2A	0726110.D	07/26/05	12:17
09	G161-2083-2A MS	G161-2083-2A MS	0726122.D	07/26/05	18:34
10	G161-2083-2A MSD	G161-2083-2A MSD	0726123.D	07/26/05	19:05
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0627101.D BFB Injection Date: 06/27/05

Instrument ID: MSD1 BFB Injection Time: 09:07

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	16.9	Y
75	30.0 - 60.0% of mass 95	32.6	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.3	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	82.3	Y
175	5.0 - 9.0% of mass 174	7.2	Y
176	95.0 - 101.0% of mass 174	98.0	Y
177	5.0 - 9.0% of mass 176	6.7	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0.5	VSTD0.5	0627104.D	06/27/05	11:25
02	VSTD2	VSTD2	0627105.D	06/27/05	11:57
03	VSTD5	VSTD5	0627106.D	06/27/05	12:29
04	VSTD10	VSTD10	0627107.D	06/27/05	13:01
05	VSTD20	VSTD20	0627108.D	06/27/05	13:33
06	VSTD50	VSTD50	0627109.D	06/27/05	14:05
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Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date(s): 06/27/05

Heated Purge: (Y/N) Y Calibration Times: 13:33

GC Column: DB-624 ID: 0 2 (mm)

LAB FILE ID: RRF0.5 = 0627104.D RRF2.0 = 0627105.D

RRF5.0 = 0627106.D RRF10.0 = 0627107.D RRF20.0 = 0627108.D RRF50.0 = 0627109.D

COMPOUND	RRF 0.5	RRF 2.0	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	ICAL RRF	% RSD
dichlorodifluoromethane	0.176	0.133	0.139	0.152	0.149	0.127	0.146	12.1
chloromethane	0.463	0.352	0.347	0.342	0.305		0.362	16.5
vinyl chloride	0.336	0.236	0.247	0.264	0.262	0.226	0.262	14.9
bromomethane	0.029	0.056	0.07	0.082		0.07	0.062	32.9
chloroethane	0.188	0.134	0.138	0.147	0.140		0.150	14.8
trichlorofluoromethane	0.202	0.149	0.162	0.171	0.170	0.140	0.165	12.9
acrolein	0.025	0.017	0.019	0.02	0.02	0.016	0.019	15.9
1,1-dichloroethene	0.138	0.163	0.164	0.150	0.157	0.143	0.152	7.05
acetone	0.031	0.024	0.025	0.023		0.021	0.025	14.3
methylene chloride	0.143	0.164	0.158	0.148	0.153	0.139	0.151	6.23
trans-1,2-dichloroethene	0.156	0.207	0.200	0.189	0.198	0.178	0.188	9.86
acrylonitrile	0.038	0.026	0.029	0.031	0.031	0.027	0.03	14.4
1,1-dichloroethane	0.334	0.383	0.382	0.356	0.370	0.341	0.361	5.76
2,2-dichloropropane	0.163	0.200	0.193	0.176	0.178	0.158	0.178	9.19
cis-1,2-dichloroethene	0.173	0.206	0.201	0.190	0.197	0.179	0.191	6.85
2-butanone	0.035	0.037	0.037	0.034	0.036	0.033	0.035	5.06
bromochloromethane	0.051	0.072	0.073	0.069	0.072	0.065	0.067	12.2
chloroform	0.217	0.253	0.249	0.231	0.242	0.222	0.236	6.22
1,1,1-trichloroethane	0.174	0.209	0.202	0.195	0.200	0.181	0.193	6.93
carbon tetrachloride	0.130	0.165	0.159	0.153	0.156	0.145	0.151	8.15
1,1-dichloropropene	0.173	0.219	0.210	0.202	0.207	0.186	0.200	8.39
1,2-dichloroethane-d4	0.145	0.143	0.140	0.142	0.140	0.141	0.142	1.32
benzene	0.577	0.687	0.670	0.633	0.649	0.596	0.635	6.67
1,2-dichloroethane	0.113	0.141	0.139	0.131	0.136	0.123	0.130	8.20
trichloroethene	0.149	0.189	0.184	0.177	0.178	0.160	0.173	8.93
1,2-dichloropropane	0.193	0.210	0.204	0.186	0.193	0.176	0.194	6.34
dibromomethane	0.038	0.055	0.056	0.051	0.055	0.05	0.051	13.1
bromodichloromethane	0.129	0.146	0.145	0.135	0.141	0.128	0.137	5.91
2-chloroethyl vinyl ether		0.006	0.009	0.007	0.008	0.011	0.008	26.6
cis-1,3-dichloropropene	0.141	0.187	0.186	0.168	0.174	0.161	0.169	10.2
4-methyl-2-pentanone	0.075	0.07	0.071	0.067	0.072	0.067	0.07	4.41
toluene-d8	0.690	0.687	0.684	0.695	0.692	0.695	0.691	0.649
toluene	0.383	0.463	0.447	0.427	0.442	0.409	0.428	6.75
Iodomethane	0.005	0.047	0.066	0.123	0.176	0.203	0.103	74.6
trans-1,3-dichloropropene	0.093	0.118	0.118	0.112	0.115	0.107	0.110	8.49
Vinyl acetate	0.310	0.345	0.340	0.308	0.329		0.327	5.20
Carbon disulfide	0.447	0.555	0.531	0.507	0.518	0.467	0.504	8.03
1,1,2-trichloroethane	0.602	0.773	0.785	0.707		0.690	0.711	10.4
tetrachloroethene	1.90	2.26	2.16	2.08	2.14	2.01	2.09	6.09
1,3-dichloropropane	1.45	1.63	1.64	1.51		1.44	1.53	6.34

Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date(s): 06/27/05

Heated Purge: (Y/N) Y Calibration Times: 13:33

GC Column: DB-624 ID: 0.2 (mm)

LAB FILE ID: RRF0.5 = 0627104.D RRF2.0 = 0627105.D

RRF5.0 = 0627106.D RRF10.0 = 0627107.D RRF20.0 = 0627108.D RRF50.0 = 0627109.D

COMPOUND	RRF 0.5	RRF 2.0	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	ICAL RRF	% RSD
2-hexanone	0.574	0.502	0.534	0.504	0.549	0.524	0.531	5.18
dibromochloromethane	0.886	1.20	1.17	1.09	1.14	1.08	1.10	10.3
1,2-dibromoethane	0.697	0.890	0.899	0.848	0.889	0.831	0.842	9.01
chlorobenzene	4.35	5.20	5.10	4.77	5.01	4.73	4.86	6.34
1,1,1,2-tetrachloroethane	1.36	1.63	1.61	1.51	1.57	1.47	1.52	6.71
bromoform	0.424	0.529	0.567	0.535	0.563	0.530	0.525	9.93
4-bromofluorobenzene	3.32	3.27	3.32	3.34	3.38	3.40	3.34	1.45
bromobenzene	1.44	1.81	1.84	1.76	1.84	1.71	1.73	8.92
1,1,2,2-tetrachloroethane	0.746	0.886	0.885	0.829		0.803	0.830	7.12
1,2,3-trichloropropane	1.05	1.28	1.34	1.26	1.36	1.32	1.27	8.80
ethylbenzene	0.930	1.13	1.13	1.07	1.11	1.05	1.07	7.06
m/p-xylene	0.350	0.442	0.440	0.418	0.432	0.399	0.414	8.41
styrene	0.470	0.596	0.601	0.570	0.605	0.562	0.567	8.99
o-xylene	0.320	0.405	0.412	0.386	0.402	0.371	0.383	8.91
isopropylbenzene	0.869	1.06	1.04	0.994	1.04	0.980	0.998	7.06
n-propyl benzene	0.962	1.19	1.17	1.14	1.18	1.13	1.13	7.60
2-chlorotoluene	0.170	0.242	0.213	0.225	0.213	0.194	0.209	11.9
4-chlorotoluene	0.201	0.253	0.254	0.241	0.253	0.233	0.239	8.57
1,3,5-trimethylbenzene	0.617	0.762	0.763	0.730	0.767	0.711	0.725	7.90
tert-butylbenzene	0.536	0.653	0.634	0.624	0.634	0.588	0.612	6.97
1,2,4-trimethylbenzene	0.548	0.695	0.706	0.687	0.738	0.684	0.676	9.72
sec-butylbenzene	0.797	0.979	0.977	0.942	0.995	0.945	0.939	7.72
1,3-dichlorobenzene	0.390	0.483	0.494	0.469	0.495	0.458	0.465	8.50
4-isopropyltoluene	0.664	0.814	0.830	0.793	0.862	0.814	0.796	8.62
1,4-dichlorobenzene	0.397	0.468	0.480	0.452	0.481	0.445	0.454	6.89
1,2-dichlorobenzene	0.302	0.384	0.392	0.367	0.387	0.354	0.364	9.25
n-butylbenzene	0.499	0.594	0.626	0.618	0.662	0.625	0.604	9.25
1,2-dibromo-3-chloropropane	0.009	0.011	0.012	0.011	0.012	0.011	0.011	8.95
1,2,4-trichlorobenzene	0.135	0.163	0.177	0.171	0.184	0.178	0.168	10.5
hexachlorobutadiene	0.076	0.09	0.093	0.091	0.097	0.092	0.09	8.19
naphthalene	0.191	0.201	0.221	0.217	0.236	0.224	0.215	7.52
trans-1,4-Dichloro-2-butene	0.004	0.008	0.01	0.009	0.011	0.01	0.009	29.8
1,2,3-trichlorobenzene	0.099	0.117	0.130	0.127	0.138	0.130	0.123	11.1
MTBE	0.270	0.328	0.330	0.299	0.314	0.286	0.304	7.88
DIPE	0.893	1.05	1.03	0.955	0.982	0.916	0.971	6.39

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 07/26/05 Time: 8:36

Lab File ID: 0726103.D Init. Calib. Date: 06/27/05

EPA Sample No.: QCHK005 Init. Calib. Time: 13:33

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,1,1,2-tetrachloroethane	1.54	1.339		13.1	
1,1,1-trichloroethane	0.220	0.183		16.8	
1,1,2,2-tetrachloroethane	0.758	0.722	0.30	4.7	
1,1,2-trichloroethane	0.641	0.639		0.3	
1,1-dichloroethane	0.387	0.360	0.10	7.0	
1,1-dichloroethene	0.156	0.145		7.1	20.0
1,1-dichloropropene	0.214	0.199		7.0	
1,2,3-trichlorobenzene	0.112	0.111		0.9	
1,2,3-trichloropropane	1.22	0.861		29.2	
1,2,4-trichlorobenzene	0.158	0.147		7.0	
1,2,4-trimethylbenzene	0.701	0.683		2.6	
1,2-dibromo-3-chloropropane	0.011	0.009*		18.2	
1,2-dibromoethane	0.754	0.717		4.9	
1,2-dichlorobenzene	0.331	0.310		6.3	
1,2-dichloroethane	0.149	0.119		20.1	
1,2-dichloropropane	0.194	0.180		7.2	20.0
1,3,5-trimethylbenzene	0.739	0.722		2.3	
1,3-dichlorobenzene	0.437	0.415		5.0	
1,3-dichloropropane	1.44	1.353		5.8	
1,4-dichlorobenzene	0.419	0.401		4.3	
2,2-dichloropropane	0.199	0.183		8.0	
2-butanone	0.036	0.031		13.9	
2-chloroethyl vinyl ether	0.014	0.013		7.1	
2-chlorotoluene	0.239	0.227		5.0	
2-hexanone	0.533	0.471		11.6	
4-chlorotoluene	0.245	0.233		4.9	
4-isopropyltoluene	0.848	0.808		4.7	
4-methyl-2-pentanone	0.07	0.061		12.9	
acetone	0.026	0.020		23.1	
acrolein	0.011	0.010		9.1	
acrylonitrile	0.03	0.027		10.0	
benzene	0.654	0.627		4.1	
bromobenzene	1.65	1.501		8.9	
bromochloromethane	0.065	0.060		7.7	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.141	0.118		16.3	
bromoform	0.477	0.327	0.10	31.4	
bromomethane	0.108	0.131		-21.3	
Carbon disulfide	0.557	0.534		4.1	
carbon tetrachloride	0.185	0.150		18.9	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 07/26/05 Time: 8:36

Lab File ID: 0726103.D Init. Calib. Date: 06/27/05

EPA Sample No.: QCHK005 Init. Calib. Time: 13:33

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	4.805	4.487	0.30	6.6	
chloroethane	0.141	0.149		-5.7	
chloroform	0.252	0.222		11.9	20.0
chloromethane	0.318	0.315	0.10	0.9	
cis-1,2-dichloroethene	0.185	0.175		5.4	
cis-1,3-dichloropropene	0.168	0.158		6.0	
dibromochloromethane	1.060	0.853		19.5	
dibromomethane	0.048	0.044		8.3	
dichlorodifluoromethane	0.197	0.165		16.2	
DIPE	0.979	0.908		7.3	
ethylbenzene	1.040	1.024		1.5	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.095	0.083		12.6	
Iodomethane	0.203	0.220		-8.4	
isopropylbenzene	0.990	0.932		5.9	
m/p-xylene	0.407	0.398		2.2	
methylene chloride	0.146	0.139		4.8	
MTBE	0.302	0.287		5.0	
n-butylbenzene	0.632	0.628		0.6	
n-propyl benzene	1.147	1.136		1.0	
naphthalene	0.188	0.189		-0.5	
o-xylene	0.369	0.369		0.0	
sec-butylbenzene	0.974	0.958		1.6	
styrene	0.509	0.499		2.0	
tert-butylbenzene	0.717	0.667		7.0	
tetrachloroethene	2.048	1.842		10.1	
toluene	0.428	0.408		4.7	20.0
trans-1,2-dichloroethene	0.188	0.182		3.2	
trans-1,3-dichloropropene	0.114	0.100		12.3	
trans-1,4-Dichloro-2-butene	0.010	0.005*		50.0	
trichloroethene	0.176	0.162		8.0	
trichlorofluoromethane	0.198	0.173		12.6	
Vinyl acetate	0.344	0.297		13.7	
vinyl chloride	0.302	0.296		2.0	20.0
1,2-dichloroethane-d4	0.157	0.134		14.6	
4-bromofluorobenzene	3.38	3.248		3.8	
toluene-d8	0.703	0.697		0.9	

Paradigm Analytical Laboratories, INC.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: QCHK005 Date Analyzed: 07/26/05

Lab File ID (Standard): 0726103.D Time Analyzed: 08:36

Instrument ID: MSD1 Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.2 (mm)

		IS1 (BCP) AREA #	RT #	IS2 (FB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	279185	12	3131538	8.79	2186482	13.82
	UPPER LIMIT	558370	12.5	6263076	9.29	4372964	14.32
	LOWER LIMIT	139593	11.5	1565769	8.29	1093241	13.32
	EPA SAMPLE						
01	DMW-1	271641	12	2998910	8.79	2113698	13.82
02	VBLK1072605B	274326	11.99	3064844	8.79	2158083	13.82
03	LCS1072605A	280370	12	3092674	8.79	2168075	13.82
04	G161-2083-2A MS	267646	12	2957597	8.79	2056565	13.82
05	G161-2083-2A MSD	270179	11.99	2959396	8.8	2057506	13.82
06	DMW-2	262613	11.99	2951643	8.8	2104127	13.82
07	DUP-4	268532	12	2953315	8.79	2102123	13.82
08	TRIP BLANK	270885	12	3023139	8.79	2116912	13.82
09							
10							
11							
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27							
28							
29							
30							

IS1 (BCP) = Bromochloropropane
IS2 (FB) = Fluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS1072605A
Sample wt/vol: 5 (mL) Lab File ID: 0726104.D
Level: (low/med) LOW
% Moisture: not dec. NA Date Analyzed: 07/26/05 09:08
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	25.0	24.3	97.3	41.1-159
107-02-8	acrolein	125	107	85.6	NA-214
107-13-1	acrylonitrile	125	117	93.6	60.4-140
71-43-2	benzene	5.00	5.09	102	77.4-123
108-86-1	bromobenzene	5.00	4.71	94.2	60.2-140
74-97-5	bromochloromethane	5.00	4.79	95.8	69.2-131
75-27-4	bromodichloromethane	5.00	4.51	90.2	73.8-126
75-25-2	bromoform	5.00	3.27	65.4	57.3-143
74-83-9	bromomethane	5.00	6.03	120	33.0-167
78-93-3	2-butanone	25.0	22.4	89.6	50.5-150
104-51-8	n-butylbenzene	5.00	5.12	102	71.3-129
135-98-8	sec-butylbenzene	5.00	5.00	100	72.2-128
98-06-6	tert-butylbenzene	5.00	4.78	95.6	75.0-125
75-15-0	Carbon disulfide	5.00	4.99	99.8	68.3-132
56-23-5	carbon tetrachloride	5.00	4.26	85.2	76.8-123
108-90-7	chlorobenzene	5.00	4.79	95.8	72.5-128
75-00-3	chloroethane	5.00	5.31	106	72.6-127
110-75-8	2-chloroethyl vinyl ether	12.5	12.4	99.4	6.49-194
67-66-3	chloroform	5.00	4.71	94.2	73.5-126
74-87-3	chloromethane	5.00	5.06	101	50.7-149
95-49-8	2-chlorotoluene	5.00	4.91	98.2	77.7-122
106-43-4	4-chlorotoluene	5.00	5.01	100	75.2-125
124-48-1	dibromochloromethane	5.00	4.14	82.8	65.0-135
96-12-8	1,2-dibromo-3-chloropropane	25.0	19.6	78.6	60.8-139
106-93-4	1,2-dibromomethane	5.00	4.87	97.4	69.7-130
74-95-3	dibromomethane	5.00	5.05	101	76.0-124
95-50-1	1,2-dichlorobenzene	5.00	5.00	100	73.0-127
541-73-1	1,3-dichlorobenzene	5.00	4.84	96.8	71.3-129
106-46-7	1,4-dichlorobenzene	5.00	4.91	98.2	72.2-128
110-57-6	trans-1,4-Dichloro-2-butene	25.0	14.2	57.0	48.0-152
75-71-8	dichlorodifluoromethane	5.00	4.36	87.2	80.7-119
75-34-3	1,1-dichloroethane	5.00	4.81	96.2	69.4-130
107-06-2	1,2-dichloroethane	5.00	4.35	87.0	67.4-133
75-35-4	1,1-dichloroethene	5.00	4.96	99.2	71.7-128
156-59-2	cis-1,2-dichloroethene	5.00	4.96	99.2	76.4-124
156-60-5	trans-1,2-dichloroethene	5.00	5.05	101	73.9-126
78-87-5	1,2-dichloropropane	5.00	4.93	98.6	73.0-127
142-28-9	1,3-dichloropropane	5.00	4.91	98.2	76.7-123
594-20-7	2,2-dichloropropane	5.00	4.62	92.4	41.4-159
563-58-6	1,1-dichloropropene	5.00	4.91	98.2	72.8-127
10061-01-5	cis-1,3-dichloropropene	5.00	4.88	97.6	65.6-134

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS1072605A
Sample wt/vol: 5 (mL) Lab File ID: 0726104.D
Level: (low/med) LOW
% Moisture: not dec. NA Date Analyzed: 07/26/05 09:08
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	5.00	4.62	92.4	64.4-136
108-20-3	Diisopropyl ether	5.00	4.88	97.6	69.7-130
100-41-4	ethylbenzene	5.00	5.13	103	77.0-123
87-68-3	hexachlorobutadiene	5.00	4.51	90.2	57.4-142
591-78-6	2-hexanone	25.0	22.9	91.7	57.3-143
74-88-4	Iodomethane	5.00	4.87	97.4	57.3-143
98-82-8	isopropylbenzene	5.00	4.94	98.8	76.5-123
99-87-6	4-isopropyltoluene	5.00	4.81	96.2	73.8-126
1634-04-4	Methyl-tert-butyl ether	5.00	5.05	101	67.9-132
75-09-2	methylene chloride	5.00	4.99	99.8	20.0-337
108-10-1	4-methyl-2-pentanone	25.0	22.5	90.1	62.3-138
91-20-3	naphthalene	5.00	4.78	95.6	59.0-141
103-65-1	n-propyl benzene	5.00	5.09	102	75.3-125
100-42-5	styrene	5.00	5.15	103	77.3-123
630-20-6	1,1,1,2-tetrachloroethane	5.00	4.42	88.4	67.3-133
79-34-5	1,1,2,2-tetrachloroethane	5.00	4.78	95.6	62.3-138
127-18-4	tetrachloroethene	5.00	4.67	93.4	56.0-144
108-88-3	toluene	5.00	4.94	98.8	75.9-124
87-61-6	1,2,3-trichlorobenzene	5.00	4.57	91.4	52.8-147
120-82-1	1,2,4-trichlorobenzene	5.00	4.69	93.8	54.4-146
71-55-6	1,1,1-trichloroethane	5.00	4.43	88.6	75.0-125
79-00-5	1,1,2-trichloroethane	5.00	4.73	94.6	73.9-126
79-01-6	trichloroethene	5.00	4.88	97.6	77.9-122
75-69-4	trichlorofluoromethane	5.00	4.61	92.2	82.7-117
96-18-4	1,2,3-trichloropropane	5.00	3.49	69.8	61.5-138
95-36-3	1,2,4-trimethylbenzene	5.00	4.99	99.8	73.8-126
108-67-8	1,3,5-trimethylbenzene	5.00	4.93	98.6	74.6-125
108-05-4	Vinyl acetate	12.5	11.4	91.1	5.00-NA
75-01-4	vinyl chloride	5.00	4.95	99.0	74.5-126
108-38-3	m/p-xylene	10.0	10.2	102	76.2-124
95-47-6	o-xylene	5.00	5.05	101	76.0-124

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1J
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/28/2005
Acenaphthylene	BQL	10.0	1	7/28/2005
Anthracene	BQL	10.0	1	7/28/2005
Benzo[a]anthracene	BQL	10.0	1	7/28/2005
Benzo[a]pyrene	BQL	10.0	1	7/28/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/28/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/28/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/28/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/28/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/28/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/28/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/28/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/28/2005
Butylbenzylphthalate	BQL	10.0	1	7/28/2005
2-Chloronaphthalene	BQL	10.0	1	7/28/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/28/2005
Chrysene	BQL	10.0	1	7/28/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/28/2005
Di-n-Butylphthalate	BQL	10.0	1	7/28/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/28/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/28/2005
Diethylphthalate	BQL	10.0	1	7/28/2005
Dimethylphthalate	BQL	10.0	1	7/28/2005
Di-n-octylphthalate	BQL	10.0	1	7/28/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/28/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/28/2005
Diphenylamine *	BQL	10.0	1	7/28/2005
Fluoranthene	BQL	10.0	1	7/28/2005
Fluorene	BQL	10.0	1	7/28/2005
Hexachlorobenzene	BQL	10.0	1	7/28/2005
Hexachlorobutadiene	BQL	10.0	1	7/28/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/28/2005
Hexachloroethane	BQL	10.0	1	7/28/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/28/2005
Isophorone	BQL	10.0	1	7/28/2005
Naphthalene	BQL	10.0	1	7/28/2005
Nitrobenzene	BQL	10.0	1	7/28/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/28/2005
Phenanthrene	BQL	10.0	1	7/28/2005
Pyrene	BQL	10.0	1	7/28/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-1
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-1J
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 12:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.6	86
Nitrobenzene-d5	10	8.3	83
4-Terphenyl-d14	10	13.8	138

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID:	DMW-1	Analyzed By:	MRC
Client Project ID:	Dwiggins Property	Date Collected:	7/22/2005 12:15
Lab Sample ID:	G161-2083-1J	Date Received:	7/23/2005
Lab Project ID:	G161-2083	Date Extracted:	7/26/2005
Sample Wt/Vol:	500 ML	Date Analyzed:	7/28/2005
Dilution:	1	Matrix:	Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know solvent peak (added by lab)	3.83			111
2	Know Compound peak (added by lab)	11.80			111
3	Tetrachloroethylene	4.31	000127-18-4	98	6.38
4	Know Compound peak (added by lab)	12.22			3.58
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/28/2005
Acenaphthylene	BQL	10.0	1	7/28/2005
Anthracene	BQL	10.0	1	7/28/2005
Benzo[a]anthracene	BQL	10.0	1	7/28/2005
Benzo[a]pyrene	BQL	10.0	1	7/28/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/28/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/28/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/28/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/28/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/28/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/28/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/28/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/28/2005
Butylbenzylphthalate	BQL	10.0	1	7/28/2005
2-Chloronaphthalene	BQL	10.0	1	7/28/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/28/2005
Chrysene	BQL	10.0	1	7/28/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/28/2005
Di-n-Butylphthalate	BQL	10.0	1	7/28/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/28/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/28/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/28/2005
Diethylphthalate	BQL	10.0	1	7/28/2005
Dimethylphthalate	BQL	10.0	1	7/28/2005
Di-n-octylphthalate	BQL	10.0	1	7/28/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/28/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/28/2005
Diphenylamine *	BQL	10.0	1	7/28/2005
Fluoranthene	BQL	10.0	1	7/28/2005
Fluorene	BQL	10.0	1	7/28/2005
Hexachlorobenzene	BQL	10.0	1	7/28/2005
Hexachlorobutadiene	BQL	10.0	1	7/28/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/28/2005
Hexachloroethane	BQL	10.0	1	7/28/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/28/2005
Isophorone	BQL	10.0	1	7/28/2005
Naphthalene	BQL	10.0	1	7/28/2005
Nitrobenzene	BQL	10.0	1	7/28/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/28/2005
Phenanthrene	BQL	10.0	1	7/28/2005
Pyrene	BQL	10.0	1	7/28/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.9	69
Nitrobenzene-d5	10	6.8	68
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: DMW-2
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2083-2G
Lab Project ID: G161-2083
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/22/2005 11:15
Date Received: 7/23/2005
Date Extracted: 7/26/2005
Date Analyzed: 7/28/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Compound peak (added by lab)	11.80			134
2	Know solvent peak (added by lab)	3.83			78.8
3	Tetrachloroethylene	4.31	000127-18-4	97	18.6
4	Know Compound peak (solvent stabilizer)	6.14			5.45
5	Know Compound peak (added by lab)	12.22			5.25
6	Unknown	5.01			2.54
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3298
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/26/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/27/2005
Acenaphthylene	BQL	10.0	1	7/27/2005
Anthracene	BQL	10.0	1	7/27/2005
Benzo[a]anthracene	BQL	10.0	1	7/27/2005
Benzo[a]pyrene	BQL	10.0	1	7/27/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/27/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/27/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/27/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/27/2005
Butylbenzylphthalate	BQL	10.0	1	7/27/2005
2-Chloronaphthalene	BQL	10.0	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/27/2005
Chrysene	BQL	10.0	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/27/2005
Di-n-Butylphthalate	BQL	10.0	1	7/27/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/27/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/27/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/27/2005
Diethylphthalate	BQL	10.0	1	7/27/2005
Dimethylphthalate	BQL	10.0	1	7/27/2005
Di-n-octylphthalate	BQL	10.0	1	7/27/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/27/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/27/2005
Diphenylamine *	BQL	10.0	1	7/27/2005
Fluoranthene	BQL	10.0	1	7/27/2005
Fluorene	BQL	10.0	1	7/27/2005
Hexachlorobenzene	BQL	10.0	1	7/27/2005
Hexachlorobutadiene	BQL	10.0	1	7/27/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/27/2005
Hexachloroethane	BQL	10.0	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/27/2005
Isophorone	BQL	10.0	1	7/27/2005
Naphthalene	BQL	10.0	1	7/27/2005
Nitrobenzene	BQL	10.0	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/27/2005
Phenanthrene	BQL	10.0	1	7/27/2005
Pyrene	BQL	10.0	1	7/27/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3298
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/26/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.4	64
Nitrobenzene-d5	10	6.6	66
4-Terphenyl-d14	10	12.1	121

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3298
Lab Project ID:
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/26/2005
Date Analyzed: 7/28/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Compound peak (added by lab)	11.80			144
2	Know solvent peak (added by lab)	3.84			67
3	Know Compound peak (solvent stabilizer)	6.14			7.18
4	Unknown	11.24			6.72
5	Unknown	14.18			6.34
6	Know Compound peak (added by lab)	12.22			4.95
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Paradigm Analytical Laboratories, INC.

2C

WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	TOT OUT
01	DMW-1	83	86	138				0
02	G111-769-1F	93	92	140				0
03	G111-769-1G MS	99	121	98				0
04	G111-769-1H MSD	99	123	102				0
05	LCS3298	93	131	91				0
06	PB3298	66	64	121				0
07	DMW-2	68	69	131				0
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(46-117)
S2 (FBP) = 2-Fluorobiphenyl	(42-116)
S3 (TPH) = Terphenyl-d14	(44-140)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G111-769-1F

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	250	253	101	250	262	105	3.40	30	55.0-106
Acenaphthylene	BQL	250	274	110	250	287	115	4.45	30	62.0-119
Anthracene	BQL	250	260	104 *	250	271	108 *	4.33	30	44.0-96.0
Benzo[a]anthracene	BQL	250	246	98.3	250	255	102	3.60	30	50.0-109
Benzo[a]pyrene	BQL	250	272	108 *	250	286	114 *	5.29	30	39.0-100
Benzo[b]fluoranthene	BQL	250	273	109 *	250	290	116 *	6.30	30	34.0-105
Benzo[g,h,i]perylene	BQL	250	256	102	250	244	97.6	4.70	30	36.0-116
Benzo[k]fluoranthene	BQL	250	297	119	250	298	119	0.504	30	26.0-120
Benzoic Acid	BQL	250	284	113 *	250	288	115 *	1.57	30	44.0-107
Benzyl Alcohol	BQL	250	226	90.6	250	222	88.7	2.12	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	250	246	98.3	250	246	98.4	0.102	30	58.0-101
Bis(2-chloroethyl)ether	BQL	250	230	91.9	250	223	89.2	2.98	30	47.0-93.0
Bis(2-chloroisopropyl)ether	BQL	250	240	96.0	250	234	93.4	2.74	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	250	297	119	250	300	120	1.17	30	46.0-131
4-bromophenyl phenyl ether	BQL	250	234	93.6	250	243	97.1	3.67	30	36.0-112
Butylbenzylphthalate	BQL	250	308	123 *	250	310	124 *	0.809	30	54.0-117
4-Chloroaniline	BQL	250	409	164	250	401	160	1.79	30	12.0-198
4-Chloro-3-methylphenol	BQL	250	244	97.5	250	250	100 *	2.63	30	67.0-98.0
2-Chloronaphthalene	BQL	250	245	98.0	250	254	102	3.61	30	54.0-105
2-Chlorophenol	BQL	250	224	89.6	250	217	86.7	3.29	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	250	254	102	250	268	107	5.45	30	51.0-114
Chrysene	BQL	250	276	110	250	288	115 *	4.08	30	52.0-114
Di-n-Butylphthalate	BQL	250	252	101	250	258	103	2.35	30	53.0-111
Di-n-octylphthalate	BQL	250	305	122 *	250	308	123 *	0.816	30	22.0-113
Dibenzo[a,h]anthracene	BQL	250	292	117	250	286	114	2.16	30	33.0-117
Dibenzofuran	BQL	250	239	95.4	250	249	99.4	4.10	30	62.0-108
1,2-Dichlorobenzene	BQL	250	166	66.6	250	152	60.7	9.27	30	31.0-93.0
1,3-Dichlorobenzene	BQL	250	149	59.7	250	132	52.6	12.6	30	25.0-87.0
1,4-Dichlorobenzene	BQL	250	158	63.4	250	138	55.4	13.5	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	250	367	147	250	356	142	3.25	30	10.0-383
2,4-Dichlorophenol	BQL	250	233	93.2	250	236	94.3	1.17	30	61.0-97.0
Diethylphthalate	BQL	250	274	110 *	250	288	115 *	5.25	30	65.0-102
2,4-Dimethylphenol	BQL	250	190	75.8	250	184	73.6	2.94	30	29.0-110
Dimethylphthalate	BQL	250	257	103 *	250	272	109 *	5.48	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	250	228	91.1	250	234	93.6	2.71	30	46.0-104
2,4-Dinitrophenol	BQL	250	241	96.3	250	250	100	3.87	30	47.0-109
2,4-Dinitrotoluene	BQL	250	295	118 *	250	309	124 *	4.63	30	63.0-103
2,6-Dinitrotoluene	BQL	250	271	108 *	250	290	116 *	6.60	30	61.0-101
Fluoranthene	BQL	250	260	104	250	269	108	3.50	30	49.0-109
Fluorene	BQL	250	272	109 *	250	286	114 *	4.66	30	58.0-108
Hexachlorobenzene	BQL	250	230	92.2	250	237	94.8	2.78	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 40 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3C

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G111-769-1F

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	250	188	75.3	250	183	73.3	2.69	30	26.0-95.0
Hexachlorocyclopentadiene	BQL	250	98.5	39.4	250	121	48.3	20.3	30	10.0-113
Hexachloroethane	BQL	250	123	49.2	250	107	42.7	14.1	30	15.0-96.0
Indeno(1,2,3-c,d)pyrene	BQL	250	270	108	250	253	101	6.78	30	34.0-111
Isophorone	BQL	250	297	119 *	250	304	122 *	2.24	30	65.0-112
1-Methylnaphthalene	10.9	250	232	92.7	250	240	96.0	3.50	30	48.0-121
2-Methylnaphthalene	42.8	250	210	84.2	250	215	86.2	2.35	30	45.0-121
2-Methylphenol	BQL	250	233	93.2	250	227	90.9	2.50	30	62.0-99.0
4-Methylphenol	BQL	500	402	80.4	500	399	79.8	0.748	30	51.0-102
N-Nitrosodi-n-propylamine	BQL	250	275	110 *	250	272	109 *	1.00	30	67.0-107
Diphenylamine	BQL	250	330	132 *	250	356	143 *	7.64	30	24.0-114
Naphthalene	82.2	250	218	87.3	250	223	89.2	2.15	30	25.0-131
2-Nitroaniline	BQL	250	272	108	250	282	113	3.97	30	54.0-135
3-Nitroaniline	BQL	250	820	328	250	833	333	1.54	30	10.0-594
4-Nitroaniline	BQL	250	465	186 *	250	474	190 *	1.97	30	30.0-153
Nitrobenzene	BQL	250	263	105 *	250	260	104 *	1.15	30	57.0-98.0
2-Nitrophenol	BQL	250	219	87.8	250	220	88.0	0.228	30	50.0-97.0
4-Nitrophenol	BQL	250	354	141	250	386	154 *	8.79	30	49.0-146
Pentachlorophenol	BQL	250	226	90.4	250	234	93.4	3.26	30	43.0-106
Phenanthrene	BQL	250	248	99.4	250	255	102	2.48	30	53.0-108
Phenol	BQL	250	234	93.4	250	228	91.4	2.16	30	61.0-100
Pyrene	BQL	250	344	137 *	250	346	138 *	0.653	30	41.0-123
1,2,4-Trichlorobenzene	BQL	250	206	82.4	250	202	80.9	1.84	30	41.0-96.0
2,4,5-Trichlorophenol	BQL	250	256	102 *	250	262	105 *	2.22	30	62.0-100
2,4,6-Trichlorophenol	BQL	250	237	94.7	250	246	98.5 *	3.93	30	61.0-96.0

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 40 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3298

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0727627.D Lab Sample ID: PB3298

Instrument ID: MSD6 Date Extracted: 07/26/05

Matrix: (soil/water) WATER Date Analyzed: 07/27/05

Level: (low/med) LOW Time Analyzed: 23:52

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G111-769-1G MS	G111-769-1G MS	0727629.D	07/28 03:26
02	G111-769-1H MSD	G111-769-1H MSD	0727630.D	07/28 04:03
03	G111-769-1F	G111-769-1F	0727636.D	07/28 05:02
04	DMW-1	G161-2083-1J	0727637.D	07/28 05:37
05	DMW-2	G161-2083-2G	0727638.D	07/28 06:11
06				
07				
08				
09				
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COMMENTS:

Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0721601.D DFTPP Injection Date: 07/21/05

Instrument ID: MSD6 DFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.9
68	Less than 2.0% of mass 69	0.8
69	Mass 69 relative abundance	47.1
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	47.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	86.1
442	40.0 - 100.0% of mass 198	59.8
443	17.0 - 23.0% of mass 442	18.6

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL1	SVCAL1	0721602.D	07/21/05	09:18
02	SVCAL2	SVCAL2	0721603.D	07/21/05	09:52
03	SVCAL4	SVCAL4	0721604.D	07/21/05	10:25
04	SVCAL6	SVCAL6	0721605.D	07/21/05	11:00
05	SVCAL8	SVCAL8	0721606.D	07/21/05	11:34
06	SVCAL12	SVCAL12	0721607.D	07/21/05	12:08
07	SVCAL24	SVCAL24	0721608.D	07/21/05	12:42
08	SVCAL48	SVCAL48	0721609.D	07/21/05	13:16
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0727614.D DFTPP Injection Date: 07/27/05

Instrument ID: MSD6 DFTPP Injection Time: 16:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	45.2
70	Less than 2.0% of mass 69	0.4
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	2.4
441	Present, but less than mass 443	79.5
442	40.0 - 100.0% of mass 198	74.3
443	17.0 - 23.0% of mass 442	19.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS8	SVCVS8	0727615.D	07/27/05	16:58
02	PB3298	PB3298	0727627.D	07/27/05	23:52
03	LCS3298	LCS3298	0727628.D	07/28/05	00:26
04	G111-769-1G MS	G111-769-1G MS	0727629.D	07/28/05	01:00
05	G111-769-1H MSD	G111-769-1H MSD	0727630.D	07/28/05	01:35
06	G111-769-1F	G111-769-1F	0727636.D	07/28/05	05:02
07	DMW-1	G161-2083-1J	0727637.D	07/28/05	05:37
08	DMW-2	G161-2083-2G	0727638.D	07/28/05	06:11
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine	0.743	0.573	0.956	0.949	1.06	0.948	1.08		0.901	20.1
N-Nitrosodimethylamine	0.662	0.585	0.661	0.671	0.628	0.696	0.688	0.648	0.655	5.41
Phenol	1.91	1.84	1.80	1.85	1.75	1.72	1.76	1.60	1.78	5.31
Bis(2-chloroethyl)ether	1.51	1.35	1.35	1.38	1.36	1.51	1.47	1.33	1.41	5.30
2-Chlorophenol	1.45	1.41	1.36	1.40	1.31	1.33	1.34	1.26	1.36	4.48
Benzyl Alcohol	1.01	0.947	0.934	0.977	0.912	0.953	0.969	0.922	0.953	3.42
1,3-Dichlorobenzene	1.39	1.35	1.34	1.35	1.29	1.31	1.30	1.24	1.32	3.47
1,4-Dichlorobenzene	1.41	1.36	1.39	1.38	1.32	1.32	1.34	1.28	1.35	3.25
1,2-Dichlorobenzene	1.31	1.30	1.25	1.26	1.19	1.19	1.19	1.13	1.23	5.12
2-Methylphenol	1.22	1.14	1.12	1.14	1.07	1.08	1.10	1.04	1.11	5.12
3-, 4-Methylphenol	1.79	1.64	1.62	1.64	1.56	1.58	1.63	1.53	1.62	4.81
Bis(2-chloroisopropyl)ether	1.76	1.63	1.65	1.65	1.55	1.59	1.60	1.48	1.61	5.13
N-Nitrosodi-n-propylamine	0.910	0.875	0.835	0.879	0.794	0.828	0.860	0.798	0.847	4.82
Hexachloroethane	0.583	0.523	0.513	0.530	0.502	0.519	0.535	0.505	0.526	4.83
2-Fluorophenol (surr)	0.972	0.989	1.01	1.02	1.02	1.04	1.05	0.994	1.01	2.43
Phenol-d6 (surr)	1.72	1.62	1.58	1.63	1.56	1.58	1.60	1.50	1.60	3.92
Nitrobenzene	0.408	0.370	0.377	0.393	0.357	0.382	0.375	0.356	0.377	4.70
Isophorone	0.613	0.570	0.564	0.589	0.540	0.573	0.560	0.531	0.568	4.58
2-Nitrophenol	0.207	0.202	0.196	0.189	0.170	0.179	0.175	0.165	0.185	8.45
2,4-Dimethylphenol	0.285	0.259	0.260	0.263	0.255	0.264	0.257	0.249	0.262	3.98
Benzoic Acid	0.166	0.117	0.137	0.148	0.146	0.171	0.179		0.152	14.2
Bis(2-chloroethoxy)methane	0.422	0.386	0.386	0.393	0.357	0.374	0.361	0.350	0.379	6.20
2,4-Dichlorophenol	0.304	0.269	0.271	0.289	0.260	0.277	0.266	0.257	0.274	5.75
1,2,4-Trichlorobenzene	0.323	0.303	0.283	0.295	0.271	0.281	0.271	0.261	0.286	7.07
Naphthalene	0.954	0.904	0.880	0.910	0.826	0.866	0.837	0.812	0.874	5.52
4-Chloroaniline	0.167	0.184	0.142		0.110	0.101	0.146	0.141	0.142	20.5
Hexachlorobutadiene	0.192	0.175	0.184	0.184	0.164	0.180	0.171	0.162	0.176	5.96
4-Chloro-3-methylphenol	0.347	0.310	0.314	0.328	0.300	0.326	0.326	0.312	0.320	4.48
2-Methylnaphthalene	0.700	0.644	0.644	0.656	0.601	0.630	0.612	0.602	0.636	5.20
Nitrobenzene-d5 (surr)	0.152	0.140	0.141	0.149	0.132	0.142	0.138	0.132	0.141	5.13
Hexachlorocyclopentadiene	0.148	0.088	0.098	0.111	0.091	0.118	0.106	0.129	0.111	18.2
2,4,6-Trichlorophenol	0.405	0.347	0.358	0.374	0.341	0.362	0.348	0.347	0.360	5.86
2,4,5-Trichlorophenol	0.405	0.354	0.364	0.375	0.340	0.373	0.356	0.356	0.365	5.33
2-Chloronaphthalene	1.11	1.02	0.982	1.01	0.929	0.998	0.932	0.925	0.989	6.44
2-Nitroaniline	0.365	0.329	0.333	0.350	0.312	0.334	0.342	0.331	0.337	4.69

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline	0.097	0.069	0.063		0.04	0.037	0.051	0.087	0.063	35.8
1-Methylnaphthalene	1.10	1.01	0.981	1.02	0.938	0.981	0.918	0.923	0.984	6.12
Dimethylphthalate	1.28	1.14	1.13	1.19	1.08	1.15	1.09	1.08	1.14	5.84
Acenaphthylene	1.52	1.36	1.32	1.35	1.25	1.29	1.21	1.01	1.29	11.3
2,6-Dinitrotoluene	0.278	0.226	0.237	0.253	0.236	0.254	0.245	0.241	0.246	6.45
Acenaphthene	0.976	0.896	0.891	0.912	0.835	0.877	0.841	0.843	0.884	5.30
2,4-Dinitrophenol	0.115	0.08	0.103	0.113	0.112	0.132	0.126	0.135	0.115	15.2
4-Nitrophenol	0.158	0.115	0.136	0.147	0.132	0.156	0.155	0.165	0.146	11.4
Dibenzofuran	1.59	1.46	1.43	1.46	1.34	1.42	1.36	1.35	1.42	5.78
2,4-Dinitrotoluene	0.347	0.280	0.311	0.303	0.289	0.304	0.298	0.303	0.304	6.47
Fluorene	1.13	1.05	1.07	1.10	0.994	1.07	1.01	1.02	1.06	4.37
Diethylphthalate	1.14	1.03	1.06	1.09	0.993	1.07	1.01	0.991	1.05	4.91
4-Chlorophenyl phenyl ether	0.600	0.570	0.559	0.577	0.533	0.552	0.517	0.512	0.553	5.52
4-Nitroaniline	0.133	0.099	0.124	0.132	0.115	0.116	0.099		0.117	12.0
2-Fluorobiphenyl (surr)	1.30	1.15	1.14	1.17	1.06	1.12	1.05	1.05	1.13	7.42
2,4,6-Tribromophenol (surr)	0.119	0.111	0.113	0.115	0.114	0.125	0.119	0.126	0.118	4.65
4,6-Dinitro-2-methylphenol	0.131	0.088	0.113	0.122	0.118	0.135	0.131	0.136	0.122	13.1
Diphenylamine	0.432	0.483	0.436	0.459	0.376	0.339	0.332		0.408	14.6
4-bromophenyl phenyl ether	0.235	0.241	0.227	0.228	0.208	0.214	0.204	0.196	0.219	7.32
Hexachlorobenzene	0.231	0.212	0.209	0.225	0.202	0.207	0.199	0.192	0.210	6.26
Pentachlorophenol	0.148	0.112	0.135	0.144	0.135	0.148	0.142	0.144	0.139	8.51
Phenanthrene	1.09	1.03	1.01	1.04	0.954	0.981	0.947	0.918	0.995	5.71
Carbazole	0.377	0.510	0.353	0.429	0.351				0.404	16.5
Anthracene	1.03	0.938	0.910	0.971	0.879	0.914	0.875	0.856	0.921	6.07
Azobenzene	0.937	0.907	0.876	0.910	0.820	0.857	0.830	0.781	0.865	6.11
Di-n-Butylphthalate	1.34	1.27	1.22	1.25	1.17	1.19	1.14	1.11	1.21	6.12
Fluoranthene	1.06	1.00	1.00	1.06	0.959	1.03	0.971	0.976	1.01	3.84
alpha-BHC	0.180	0.165	0.159		0.152	0.157	0.148	0.134	0.156	9.11
beta-BHC	0.133	0.124	0.128		0.120	0.128	0.120	0.115	0.124	4.94
gamma-BHC	0.144	0.124	0.130		0.126	0.131	0.125	0.118	0.128	6.42
delta-BHC	0.127	0.114	0.114		0.114	0.118	0.113	0.108	0.116	5.25
Heptachlor	0.166	0.148	0.146		0.146	0.151	0.150	0.141	0.150	5.26
Aldrin	0.177	0.169	0.163		0.159	0.158	0.153	0.144	0.160	6.62
Heptachlor Epoxide	0.054	0.055	0.055		0.055	0.057	0.053	0.054	0.055	2.20
Endosulfan I	0.042	0.043	0.041		0.043	0.042	0.039	0.034	0.04	7.62

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.255	0.224	0.235		0.228	0.240	0.228	0.226	0.234	4.58
Dieldrin	0.213	0.215	0.198		0.198	0.201	0.190	0.184	0.200	5.67
Endrin	0.037	0.028	0.032		0.032	0.036	0.038	0.037	0.034	10.3
4,4'-DDD	0.450	0.420	0.421		0.402	0.425	0.397	0.367	0.412	6.38
Endosulfan Sulfate	0.06	0.05	0.052		0.052	0.054	0.052	0.037	0.051	13.2
4,4'-DDT	0.377	0.303	0.312		0.301	0.320	0.321	0.290	0.318	8.99
Endrin Ketone	0.045	0.038	0.044		0.044	0.047	0.043	0.037	0.042	8.88
Methoxychlor	0.807	0.665	0.676		0.695	0.722	0.669	0.561	0.685	10.7
Pyrene	1.50	1.46	1.44	1.44	1.30	1.36	1.41	1.56	1.43	5.51
Butylbenzylphthalate	0.745	0.697	0.682	0.722	0.658	0.695	0.717	0.684	0.700	3.91
Benzo[a]anthracene	1.35	1.24	1.25	1.31	1.20	1.26	1.25	1.24	1.26	3.60
3,3'-Dichlorobenzidine	0.200	0.204	0.190	0.210	0.182	0.172	0.186	0.196	0.193	6.46
Chrysene	1.10	1.03	1.04	1.08	1.02	1.04	1.03	1.01	1.04	2.94
Bis(2-ethylhexyl)phthalate	1.00	0.977	0.936	0.972	0.875	0.910	0.929	0.885	0.935	4.81
4-Terphenyl-d14 (surr)	1.04	0.977	0.984	0.981	0.906	0.949	0.991	1.10	0.991	5.76
Di-n-octylphthalate	2.36	2.21	2.18	2.37	2.22	2.53	2.46	2.23	2.32	5.51
Benzo[b]fluoranthene	1.36	1.30	1.34	1.40	1.30	1.43	1.37	1.33	1.36	3.54
Benzo[k]fluoranthene	1.34	1.24	1.28	1.36	1.26	1.38	1.29	1.14	1.28	5.84
Benzo[a]pyrene	1.08	1.02	1.01	1.08	0.984	1.10	1.08	1.02	1.05	4.02
Indeno(1,2,3-c,d)pyrene	0.600	0.579	0.535	0.576	0.569	0.614	0.639	0.750	0.608	10.8
Dibenzo[a,h]anthracene	0.560	0.492	0.471	0.528	0.502	0.543	0.607	0.708	0.551	13.8
Benzo[g,h,i]perylene	0.629	0.618	0.564	0.637	0.612	0.645	0.656	0.752	0.639	8.37

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.286	0.269		5.9	
1,2-Dichlorobenzene	1.23	1.155		5.9	
1,3-Dichlorobenzene	1.32	1.242		6.0	
1,4-Dichlorobenzene	1.35	1.283		5.0	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.984	0.918		6.7	
2,4,5-Trichlorophenol	0.365	0.390		-6.8	
2,4,6-Trichlorophenol	0.360	0.360		0.0	20.0
2,4-Dichlorophenol	0.274	0.271		1.1	20.0
2,4-Dimethylphenol	0.262	0.260		0.8	
2,4-Dinitrophenol	0.115	0.158	0.050	-37.4	
2,4-Dinitrotoluene	0.304	0.319		-4.9	
2,6-Dinitrotoluene	0.246	0.250		-1.6	
2-Chloronaphthalene	0.989	0.949		4.0	
2-Chlorophenol	1.36	1.291		4.9	
2-Methylnaphthalene	0.636	0.610		4.1	
2-Methylphenol	1.11	1.084		2.8	
2-Nitroaniline	0.337	0.335		0.6	
2-Nitrophenol	0.185	0.174		5.9	20.0
3-, 4-Methylphenol	1.62	1.573		3.0	
3-Nitroaniline	0.063	0.084		-33.3	
4,6-Dinitro-2-methylphenol	0.122	0.143		-17.2	
4-bromophenyl phenyl ether	0.219	0.196		10.5	
4-Chloro-3-methylphenol	0.320	0.330		-3.1	20.0
4-Chloroaniline	0.142	0.159		-12.0	
4-Chlorophenyl phenyl ether	0.553	0.537		2.9	
4-Nitroaniline	0.117	0.132		-12.8	
4-Nitrophenol	0.146	0.189	0.050	-29.5	
Acenaphthene	0.884	0.838		5.2	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.29	1.205		6.4	
Aldrin	0.160	0.152		5.0	
alpha-BHC	0.156	0.138		11.5	
Anthracene	0.921	0.887		3.7	
Benzoic Acid	0.152	0.195		-28.3	
Benzo[a]anthracene	1.26	1.201		4.8	
Benzo[a]pyrene	1.05	1.036		1.0	20.0
Benzo[b]fluoranthene	1.36	1.408		-3.9	
Benzo[k]fluoranthene	1.28	1.334		-3.9	
Benzyl Alcohol	0.953	0.926		2.8	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.124	0.119		4.0	
Bis(2-chloroethoxy)methane	0.379	0.361		4.7	
Bis(2-chloroethyl)ether	1.409	1.325		6.0	
Bis(2-chloroisopropyl)ether	1.614	1.555		3.7	
Bis(2-ethylhexyl)phthalate	0.935	0.915		2.1	
Butylbenzylphthalate	0.700	0.695		0.7	
Carbazole	0.404	0.281		30.4	
Chrysene	1.044	1.005		3.7	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.116	0.112		3.4	
Di-n-Butylphthalate	1.211	1.097		9.4	
Di-n-octylphthalate	2.322	2.780		-19.7	20.0
Dibenzofuran	1.425	1.396		2.0	
Dibenzo[a,h]anthracene	0.551	0.462		16.2	
Dieldrin	0.200	0.188		6.0	
Diethylphthalate	1.046	1.032		1.3	
Dimethylphthalate	1.144	1.110		3.0	
Diphenylamine	0.408	0.327		19.9	
Endosulfan I	0.040	0.038#		5.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.051	0.047#		7.8	
Endrin	0.034	0.032#		5.9	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.042	0.036#		14.3	
Fluoranthene	1.007	0.972		3.5	20.0
Fluorene	1.056	1.053		0.3	
gamma-BHC	0.128	0.119		7.0	
Heptachlor	0.150	0.146		2.7	
Heptachlor Epoxide	0.055	0.050#		9.1	
Hexachlorobenzene	0.210	0.183		12.9	
Hexachlorobutadiene	0.176	0.164		6.8	20.0
Hexachlorocyclopentadiene	0.111	0.157	0.050	-41.4	
Hexachloroethane	0.526	0.509		3.2	
Indeno(1,2,3-c,d)pyrene	0.608	0.490		19.4	
Isophorone	0.568	0.553		2.6	
Methoxychlor	0.685	0.601		12.3	
N-Nitrosodi-n-propylamine	0.847	0.849		-0.2	
N-Nitrosodimethylamine	0.655	0.700		-6.9	
Naphthalene	0.874	0.828		5.3	
Naphthalene-D8	1.000	1.000		0.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 07/27/05 Time: 16:58

Lab File ID: 0727615.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS8 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.377	0.373		1.1	
Pentachlorophenol	0.139	0.141		-1.4	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.995	0.952		4.3	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.779	1.781		-0.1	20.0
Pyrene	1.433	1.510		-5.4	
Pyridine	0.901	0.893		0.9	
2,4,6-Tribromophenol	0.118	0.128		-8.5	
2-Fluorobiphenyl	1.13	1.058		6.2	
2-Fluorophenol	1.01	1.002		0.9	
4-Terphenyl-d14	0.991	1.022		-3.1	
Nitrobenzene-d5	0.141	0.140		0.7	
Phenol-d6	1.60	1.583		1.0	

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05

Lab File ID (Standard): 0727615.D Time Analyzed: 16:58

Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	192305	6.97	771257	8.89	452317	11.67
	UPPER LIMIT	384610	7.47	1542514	9.39	904634	12.17
	LOWER LIMIT	96153	6.47	385629	8.39	226159	11.17
	EPA SAMPLE						
01	G111-769-1G MS	153444	6.97	631221	8.89	361141	11.67
02	G111-769-1H MSD	157671	6.97	634169	8.89	357683	11.67
03	G111-769-1F	163203	6.97	637265	8.89	356084	11.67
04	LCS3298	140326	6.97	579637	8.89	336046	11.68
05	PB3298	164631	6.97	665321	8.89	395031	11.67
06	DMW-1	163483	6.97	669052	8.89	377563	11.67
07	DMW-2	173204	6.97	688877	8.89	394061	11.67
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS8 Date Analyzed: 07/27/05
Lab File ID (Standard): 0727615.D Time Analyzed: 16:58
Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	699961	14.05	431962	18.3	218159	20.56
	UPPER LIMIT	1399922	14.55	863924	18.8	436318	21.06
	LOWER LIMIT	349981	13.55	215981	17.8	109080	20.06
	EPA SAMPLE						
01	G111-769-1G MS	574307	14.05	300039	18.3	162887	20.56
02	G111-769-1H MSD	576659	14.05	311057	18.3	174046	20.56
03	G111-769-1F	520891	14.05	226452	18.29	112667	20.57
04	LCS3298	533884	14.05	260834	18.3	135321	20.56
05	PB3298	611222	14.05	285529	18.29	145621	20.56
06	DMW-1	554522	14.05	230465	18.3	118366	20.57
07	DMW-2	580282	14.05	250023	18.3	127347	20.57
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) WATER Lab Sample ID: LCS3298
Sample wt/vol: 5 (mL) Lab File ID: 0727628.D
Level: (low/med) LOW
% Moisture: NA Decanted:(Y/N) NA Date Analyzed: 07/28/05 00:26
Concentrated Extract Volume: 5 (mL) Dilution Factor: 1
Injection Volume: 1 (µL) Extraction: (Type) CONT
GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	96.7	96.7	61.6-101
208-96-8	Acenaphthylene	100	105	105	66.1-116
120-12-7	Anthracene	100	101	101*	48.7-94.6
56-55-3	Benzo[a]anthracene	100	95.0	95.0	67.4-101
50-32-8	Benzo[a]pyrene	100	110	110*	41.6-102
205-99-2	Benzo[b]fluoranthene	100	108	108	37.4-108
191-24-2	Benzo[g,h,i]perylene	100	104	104	42.0-113
207-08-9	Benzo[k]fluoranthene	100	115	115	29.6-126
65-85-0	Benzoic Acid	100	103	103	29.5-107
100-51-6	Benzyl Alcohol	100	83.1	83.1	61.6-98.5
111-91-1	Bis(2-chloroethoxy)methane	100	92.2	92.2	56.4-10.0
111-44-4	Bis(2-chloroethyl)ether	100	83.9	83.9	44.6-93.2
108-60-1	Bis(2-chloroisopropyl)ether	100	87.5	87.5	53.5-102
117-81-7	Bis(2-ethylhexyl)phthalate	100	116	116	47.2-121
101-55-3	4-bromophenyl phenyl ether	100	89.0	89.0	42.1-110
85-68-7	Butylbenzylphthalate	100	123	123*	52.8-120
106-47-8	4-Chloroaniline	100	157	157*	10.0-248
59-50-7	4-Chloro-3-methylphenol	100	93.7	93.7	64.3-97.6
91-58-7	2-Chloronaphthalene	100	92.0	92.0	59.0-100
95-57-8	2-Chlorophenol	100	82.3	82.3	56.9-93.4
7005-72-3	4-Chlorophenyl phenyl ether	100	100	100	64.4-106
218-01-9	Chrysene	100	108	108*	65.8-106
84-74-2	Di-n-Butylphthalate	100	98.5	98.5	61.8-110
117-84-0	Di-n-octylphthalate	100	123	123*	21.0-118
53-70-3	Dibenzo[a,h]anthracene	100	116	116*	40.6-112
132-64-9	Dibenzofuran	100	90.9	90.9	69.2-103
95-50-1	1,2-Dichlorobenzene	100	53.8	53.8	24.2-91.0
541-73-1	1,3-Dichlorobenzene	100	47.7	47.7	18.0-84.5
106-46-7	1,4-Dichlorobenzene	100	49.7	49.7	20.6-82.8
91-94-1	3,3'-Dichlorobenzidine	100	150	150*	10.0-360
120-83-2	2,4-Dichlorophenol	100	88.1	88.1	57.9-96.6
84-66-2	Diethylphthalate	100	106	106*	65.8-102
105-67-9	2,4-Dimethylphenol	100	86.5	86.5	18.2-110
131-11-3	Dimethylphthalate	100	99.9	99.9*	60.2-99.5
534-52-1	4,6-Dinitro-2-methylphenol	100	75.2	75.2	40.4-103
51-28-5	2,4-Dinitrophenol	100	78.5	78.5	40.5-106
121-14-2	2,4-Dinitrotoluene	100	113	113*	63.7-101
606-20-2	2,6-Dinitrotoluene	100	105	105*	61.6-99.2
206-44-0	Fluoranthene	100	98.9	98.9	64.0-103
86-73-7	Fluorene	100	105	105*	67.2-102
118-74-1	Hexachlorobenzene	100	90.7	90.7	45.0-112

) LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER Lab Sample ID: LCS3298

Sample wt/vol: 5 (mL) Lab File ID: 0727628.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA Date Analyzed: 07/28/05 00:26

Concentrated Extract Volume: 5 (mL) Dilution Factor: 1

Injection Volume: 1 (µL) Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	57.4	57.4	26.0-94.3
77-47-4	Hexachlorocyclopentadiene	100	34.8	34.8*	10.0-126
67-72-1	Hexachloroethane	100	33.0	33.0*	10.0-89.9
193-39-5	Indeno(1,2,3-c,d)pyrene	100	105	105	42.8-105
78-59-1	Isophorone	100	112	112	62.3-112
90-12-0	1-Methylnaphthalene	100	85.9	85.9	58.1-105
91-57-6	2-Methylnaphthalene	100	78.4	78.4	57.9-103
95-48-7	2-Methylphenol	100	90.3	90.3	58.9-96.1
108-39-4	4-Methylphenol	200	152	76.3	48.4-99.9
621-64-7	N-Nitrosodi-n-propylamine	100	100	100	62.6-108
86-30-6	Diphenylamine	100	132	132*	10.0-214
91-20-3	Naphthalene	100	78.7	78.7	46.1-10.0
88-74-4	2-Nitroaniline	100	103	103	68.9-121
99-09-2	3-Nitroaniline	100	329	329*	10.0-649
100-01-6	4-Nitroaniline	100	179	179*	50.1-137
98-95-3	Nitrobenzene	100	92.7	92.7	52.4-97.2
88-75-5	2-Nitrophenol	100	80.7	80.7	49.9-93.7
100-02-7	4-Nitrophenol	100	134	134*	53.7-125
87-86-5	Pentachlorophenol	100	82.7	82.7	37.0-102
85-01-8	Phenanthrene	100	96.6	96.6	59.5-107
108-95-2	Phenol	100	86.4	86.4	57.4-99.5
129-00-0	Pyrene	100	140	140*	44.1-124
120-82-1	1,2,4-Trichlorobenzene	100	67.0	67.0	37.6-97.9
95-95-4	2,4,5-Trichlorophenol	100	96.8	96.8*	59.4-96.8
88-06-2	2,4,6-Trichlorophenol	100	89.3	89.3	57.6-94.8

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	DMW-1
Sample Matrix	Water
Date Collected	07/22/05
Date Received	07/23/05
Date Extracted	07/29/05
Date Analyzed	08/01/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	94
Aromatic Surrogate % Recovery	93

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2083-1O

Reviewed By:

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	9/23/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	LCS3339	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Spiked ug/L	LCS ug/L	%Rec	%Recovery Limits Lower	Upper
C_9-C_{18} Aliphatics	200	110	55	40	140
C_{19}-C_{36} Aliphatics	300	300	100	40	140
C_{11}-C_{22} Aromatics	500	460	92	40	140

Reviewed By:

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	9/23/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC3339	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1 0

Compound	Sample ug/L	MS ug/L	%Rec	MSD ug/L	%Rec	RPD
C_9-C_{18} Aliphatics	BQL	3200	380%	910	108%	111 4
C_{19}-C_{36} Aliphatics	BQL	900	71%	660	52%	30.8
C_{11}-C_{22} Aromatics	240	1400	55%	1300	50%	9 0

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Date Collected	
Date Received	
Date Extracted	07/29/05
Date Analyzed	08/01/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	95
Aromatic Surrogate % Recovery	91

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: pb3329

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

II

EPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	S1 (COD) #	S2 (OTP) #	S3 (frac) #	QC LIMITS	TOT OUT
01	DMW-1	G161-2083-10	94	93	--	40 - 140	0
02							
03							
04							
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S1 (COD) = Chloro-octadecane
S2 (OTP) = ortho-terphenyl
S3 (frac) = 2-Bromonaphthalene

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3329

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3329 Extraction: (Type) 3520

Matrix: (soil/water) WATER Date Extracted: 2005-07-29

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	DMW-1	G161-2083-10
02		
03		
04		
05		
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COMMENTS:

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/01/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.0
C_{19}-C_{36} Aliphatics	160	-4.3
C_{11}-C_{22} Aromatics	340	-10.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	DMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/22/05
Date Received	07/23/05
Date Extracted	07/25/05
Date Analyzed	07/25/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	79
Surrogate % Recovery - FID	81

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: g161-2083-1d

Reviewed By: [illegible]

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	7/25/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4072505	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1 0

Compound	Spike ug/L	LCS ug/L	Percent Recovery	Recovery Limits Low	High
C_5-C_8 Aliphatics		225			
C_9-C_{12} Aliphatics		120			
C_9-C_{10} Aromatics		68			
Gasoline	500	413	83	70	130

Reviewed By:

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	7/25/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC4072505	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	MSD ug/L
C_5-C_8 Aliphatics	BQL	225	225
C_9-C_{12} Aliphatics	BQL	120	114
C_9-C_{10} Aromatics	BQL	67.5	71

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	413	83%	410	82%	0.6

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/25/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	96

* = Option 1 = Established fill line on vial. Option 2 = Sampling Device/Brand. or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: vblk4072505a

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

II

VPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (FID) #	S2 (PID) #	QC LIMITS	TOT OUT
01	DMW-1	G161-2083-1D	030F0101.D	79	81	70-130	
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							

S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

VPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4072505A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4072505A Lab File ID: 006F0101.D

Date Analyzed: 2005-07-25 Instrument ID: GC4

Time Analyzed: 10:23 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	DMW-1	G161-2083-1D	030F0101.D	2005-07-25 22:41
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

COMMENTS:

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Metals

Client Sample ID:	DMW-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/22/2005 12:15
Lab Sample ID:	G161-2083-1	Date Received:	7/23/2005
Lab Project ID:	G161-2083	Matrix:	WATER
Batch ID:	3302 3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	**0.231**	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Metals

Client Sample ID:	DMW-2	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/22/2005 11:15
Lab Sample ID:	G161-2083-2	Date Received:	7/23/2005
Lab Project ID:	G161-2083	Matrix:	WATER
Batch ID:	3302 3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	**0.181**	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	**0.0572**	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072705c OES Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	5000	4945	98.9	2500	2422	96.9	2500	2437	97.5	90-110
Antimony	200			500			500			90-110
Arsenic	1000	1028	102.8	500	503	100.6	500	498	99.5	90-110
Barium	5000	4959	99.2	2500	2432	97.3	2500	2411	96.4	90-110
Beryllium	1000			500			500			90-110
Cadmium	250	245	97.9	500	476	95.2	500	477	95.5	90-110
Calcium	500	5113	1022.6	2500	2399	95.9	2500	2398	95.9	90-110
Chromium	1000	1005	100.5	500	486	97.1	500	489	97.7	90-110
Cobalt	1000			500			500			90-110
Copper	1000			500			500			90-110
Iron	1000	978	97.8	2500	2433	97.3	2500	2410	96.4	90-110
Lead	1000	980	98.0	500	488	97.7	500	487	97.3	90-110
Magnesium	1000	944	94.4	2500	2420	96.8	2500	2405	96.2	90-110
Manganese	1000	1003	100.3	500	489	97.8	500	484	96.9	90-110
Nickel	1000			500			500			90-110
Potassium	1000			2500			2500			90-110
Selenium	250	249	99.7	500	472	94.5	500	482	96.3	90-110
Silver	100	93	93.4	500	479	95.8	500	477	95.4	90-110
Sodium	5000			2500			2500			90-110
Thallium	200			500			500			90-110
Vanadium	2500			500			500			90-110
Zinc	1000			500			500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072705c OES Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV (4)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	5000	4945	98.9	2500	2463	98.5	2500	2474	99.0	90-110
Antimony	200			500			500			90-110
Arsenic	1000	1028	102.8	500	502	100.4	500	501	100.2	90-110
Barium	5000	4959	99.2	2500	2407	96.3	2500	2393	95.7	90-110
Beryllium	1000			500			500			90-110
Cadmium	250	245	97.9	500	473	94.5	500	472	94.3	90-110
Calcium	500	5113	1022.6	2500	2372	94.9	2500	2360	94.4	90-110
Chromium	1000	1005	100.5	500	488	97.6	500	486	97.1	90-110
Cobalt	1000			500			500			90-110
Copper	1000			500			500			90-110
Iron	1000	978	97.8	2500	2426	97.1	2500	2403	96.1	90-110
Lead	1000	980	98.0	500	492	98.3	500	483	96.5	90-110
Magnesium	1000	944	94.4	2500	2443	97.7	2500	2443	97.7	90-110
Manganese	1000	1003	100.3	500	489	97.8	500	486	97.1	90-110
Nickel	1000			500			500			90-110
Potassium	1000			2500			2500			90-110
Selenium	250	249	99.7	500	488	97.7	500	484	96.8	90-110
Silver	100	93	93.4	500	482	96.5	500	484	96.7	90-110
Sodium	5000			2500			2500			90-110
Thallium	200			500			500			90-110
Vanadium	2500			500			500			90-110
Zinc	1000			500			500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072705c OES Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (5)			CCV ( )			LIMITS REC.
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	
Aluminum	5000	4945	98.9	2500	2440	97.6	2500			90-110
Antimony	200			500			500			90-110
Arsenic	1000	1028	102.8	500	492	98.4	500			90-110
Barium	5000	4959	99.2	2500	2350	94.0	2500			90-110
Beryllium	1000			500			500			90-110
Cadmium	250	245	97.9	500	453	90.5	500			90-110
Calcium	500	5113	1022.6	2500	2348	93.9	2500			90-110
Chromium	1000	1005	100.5	500	471	94.3	500			90-110
Cobalt	1000			500			500			90-110
Copper	1000			500			500			90-110
Iron	1000	978	97.8	2500	2351	94.0	2500			90-110
Lead	1000	980	98.0	500	468	93.5	500			90-110
Magnesium	1000	944	94.4	2500	2381	95.2	2500			90-110
Manganese	1000	1003	100.3	500	471	94.2	500			90-110
Nickel	1000			500			500			90-110
Potassium	1000			2500			2500			90-110
Selenium	250	249	99.7	500	464	92.7	500			90-110
Silver	100	93	93.4	500	476	95.1	500			90-110
Sodium	5000			2500			2500			90-110
Thallium	200			500			500			90-110
Vanadium	2500			500			500			90-110
Zinc	1000			500			500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072705a Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	2500			2500			2500			90-110
Antimony	500			500			500			90-110
Arsenic	500			500			500			90-110
Barium	2500			2500			2500			90-110
Beryllium	500			500			500			90-110
Cadmium	500			500			500			90-110
Calcium	2500			2500			2500			90-110
Chromium	500			500			500			90-110
Cobalt	500			500			500			90-110
Copper	500			500			500			90-110
Iron	2500			2500			2500			90-110
Lead	500			500			500			90-110
Magnesium	2500			2500			2500			90-110
Manganese	500			500			500			90-110
Mercury	10	10.83	108.3	5	5.00	100.0	5	5.02	100.4	90-110
Nickel	500			500			500			90-110
Potassium	2500			2500			2500			90-110
Selenium	500			500			500			90-110
Silver	500			500			500			90-110
Sodium	2500			2500			2500			90-110
Thallium	500			500			500			90-110
Vanadium	500			500			500			90-110
Zinc	500			500			500			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical

Initial Cal Source Environmental Express

Batch ID: 072705a

Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV (4)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	2500			2500			2500			90-110
Antimony	500			500			500			90-110
Arsenic	500			500			500			90-110
Barium	2500			2500			2500			90-110
Beryllium	500			500			500			90-110
Cadmium	500			500			500			90-110
Calcium	2500			2500			2500			90-110
Chromium	500			500			500			90-110
Cobalt	500			500			500			90-110
Copper	500			500			500			90-110
Iron	2500			2500			2500			90-110
Lead	500			500			500			90-110
Magnesium	2500			2500			2500			90-110
Manganese	500			500			500			90-110
Mercury	10	10.83	108.3	5	4.83	96.6	5	4.79	95.7	90-110
Nickel	500			500			500			90-110
Potassium	2500			2500			2500			90-110
Selenium	500			500			500			90-110
Silver	500			500			500			90-110
Sodium	2500			2500			2500			90-110
Thallium	500			500			500			90-110
Vanadium	500			500			500			90-110
Zinc	500			500			500			90-110

Comments:

FORM IIA - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072705c OES

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C	4	C		
Aluminum	100	U	100	U	100	U	100	U		
Antimony										
Arsenic	10	U	10	U	10	U	10	U		
Barium	100	U	100	U	100	U	100	U		
Beryllium										
Cadmium	5	U	5	U	5	U	5	U		
Calcium	200	U	200	U	200	U	200	U		
Chromium	10	U	10	U	10	U	10	U		
Cobalt										
Copper										
Iron	100	U	100	U	100	U	100	U		
Lead	10	U	10	U	10	U	10	U		
Magnesium	200	U	200	U	200	U	200	U		
Manganese	10	U	10	U	10	U	10	U		
Mercury										
Nickel										
Potassium										
Selenium	20	U	20	U	20	U	20	U		
Silver	10	U	10	U	10	U	10	U		
Sodium										
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072705c OES

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	5	C		C		C		
Aluminum	100	U	100	U						
Antimony										
Arsenic	10	U	10	U						
Barium	100	U	100	U						
Beryllium										
Cadmium	5	U	5	U						
Calcium	200	U	200	U						
Chromium	10	U	10	U						
Cobalt										
Copper										
Iron	100	U	100	U						
Lead	10	U	10	U						
Magnesium	200	U	200	U						
Manganese	10	U	10	U						
Mercury										
Nickel										
Potassium										
Selenium	20	U	20	U						
Silver	10	U	10	U						
Sodium										
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072705a

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C	4	C		
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Mercury	0.2	U	0.2	U	0.2	U	0.2	U		
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Paradigm Analytical ICS Source: Environmental Express

Batch ID: 072705c ICP ID Number: ICP1

Concentration Units: ug/L

Analyte	TRUE Sol. A	TRUE Sol. B	Initial Found Sol. A	Initial Found Sol. B	%R	Final Found Sol. A	Final Found Sol. B	%R
Aluminum	100000	100000	99732.7	97739.8	97.7	99394.6	98249	98.2
Antimony	0	300	0	0	0.0	0	0	0.0
Arsenic	0	300	-2.89	297.58	99.2	-2.37	293.8	97.9
Barium	0	1000	-2	947.73	94.8	-1.07	915.76	91.6
Beryllium	0	300	0	0	0.0	0	0	0.0
Cadmium	0	300	-0.77	273.02	91.0	-1.21	261.22	87.1
Calcium	40000	40000	39862	39095.2	97.7	38227.8	37506	93.8
Chromium	0	300	1.1	285.8	95.3	1.51	277.65	92.6
Cobalt	0	300	0	0	0.0	0	0	0.0
Copper	0	300	0	0	0.0	0	0	0.0
Iron	100000	100000	98891.1	96899.1	96.9	96761.5	96270.8	96.3
Lead	0	300	-1.22	283.99	94.7	-3.27	271.42	90.5
Magnesium	40000	40000	39160.9	39090.9	97.7	38989.6	38209.5	95.5
Manganese	0	300	1	283.16	94.4	0.33	274.89	91.6
Nickel	0	300	0	0	0.0	0	0	0.0
Potassium	0	0	0	0	n/a	0	0	n/a
Selenium	0	300	12.08	289.35	96.5	5.12	283.22	94.4
Silver	0	300	-2.04	281.13	93.7	-1.62	276.06	92.0
Sodium	0	0	0	0	n/a	0	0	n/a
Thallium	0	300	0	0	0.0	0	0	0.0
Vanadium	0	300	0	0	0.0	0	0	0.0
Zinc	0	300	0	0	0.0	0	0	0.0

FORM IV - METALS

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3302	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3302		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.0100	1	MG/L	6010B	7/27/2005
Barium	BQL	0.100	1	MG/L	6010B	7/27/2005
Cadmium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Chromium	BQL	0.0100	1	MG/L	6010B	7/27/2005
Lead	BQL	0.0100	1	MG/L	6010B	7/27/2005
Selenium	BQL	0.0200	1	MG/L	6010B	7/27/2005
Silver	BQL	0.0100	1	MG/L	6010B	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3 1

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	PSW
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3313	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3313		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Mercury	BQL	0.000250	1	MG/L	7470	7/27/2005

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.1

MS/MSD Results for METALS

Lab ID: G161-2083-1
MS Lab ID: G161-2083-1
MSD Lab ID: G161-2083-1
ICP Batch: 3302
HG Batch:
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	BQL	0.400	0.398	99.5	0.400	0.404	101	75	125	1.50	20
Barium	0.231	2.00	2.08	92.5	2.00	2.11	94.0	75	125	1.43	20
Cadmium	BQL	0.400	0.352	88.0	0.400	0.361	90.2	75	125	2.52	20
Chromium	BQL	0.400	0.373	93.3	0.400	0.382	95.5	75	125	2.38	20
Lead	BQL	0.400	0.381	95.3	0.400	0.389	97.3	75	125	2.08	20
Selenium	BQL	0.400	0.369	92.3	0.400	0.386	96.5	75	125	4.50	20
Silver	BQL	0.400	0.366	91.5	0.400	0.376	94.0	75	125	2.70	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: lw

MS/MSD Results for METALS

Lab ID: G132-1388-1
MS Lab ID: G132-1388-1
MSD Lab ID: G132-1388-1
ICP Batch:
HG Batch: 3313
Other:

Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Mercury	0.00087	0.006	0.00661	91.84	0.006	0.00655	90.88	75	125	0.9119	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By:

METALS Results for LCS/LCD

ICP Batch: 3302
HG Batch: 3313
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Arsenic	0.400	0.403	101	0.395	98.7	80	120	2.01	20
Barium	2.00	1.92	96.0	1.92	96.0	80	120	0	20
Cadmium	0.400	0.368	92.0	0.367	91.8	80	120	0.272	20
Chromium	0.400	0.383	95.8	0.379	94.7	80	120	1.05	20
Lead	0.400	0.38	95.0	0.382	95.5	80	120	0.525	20
Mercury	0.00625	0.00642	103	0.00636	102	80	120	0.939	20
Selenium	0.400	0.374	93.5	0.379	94.7	80	120	1.33	20
Silver	0.400	0.373	93.3	0.371	92.8	80	120	0.538	20

Reviewed By:

6210d Sample Raw Data

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726108.D Vial: 8
Acq On : 26 Jul 2005 11:14 am Operator: JTF
Sample : g161-2083-1a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 11:39 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

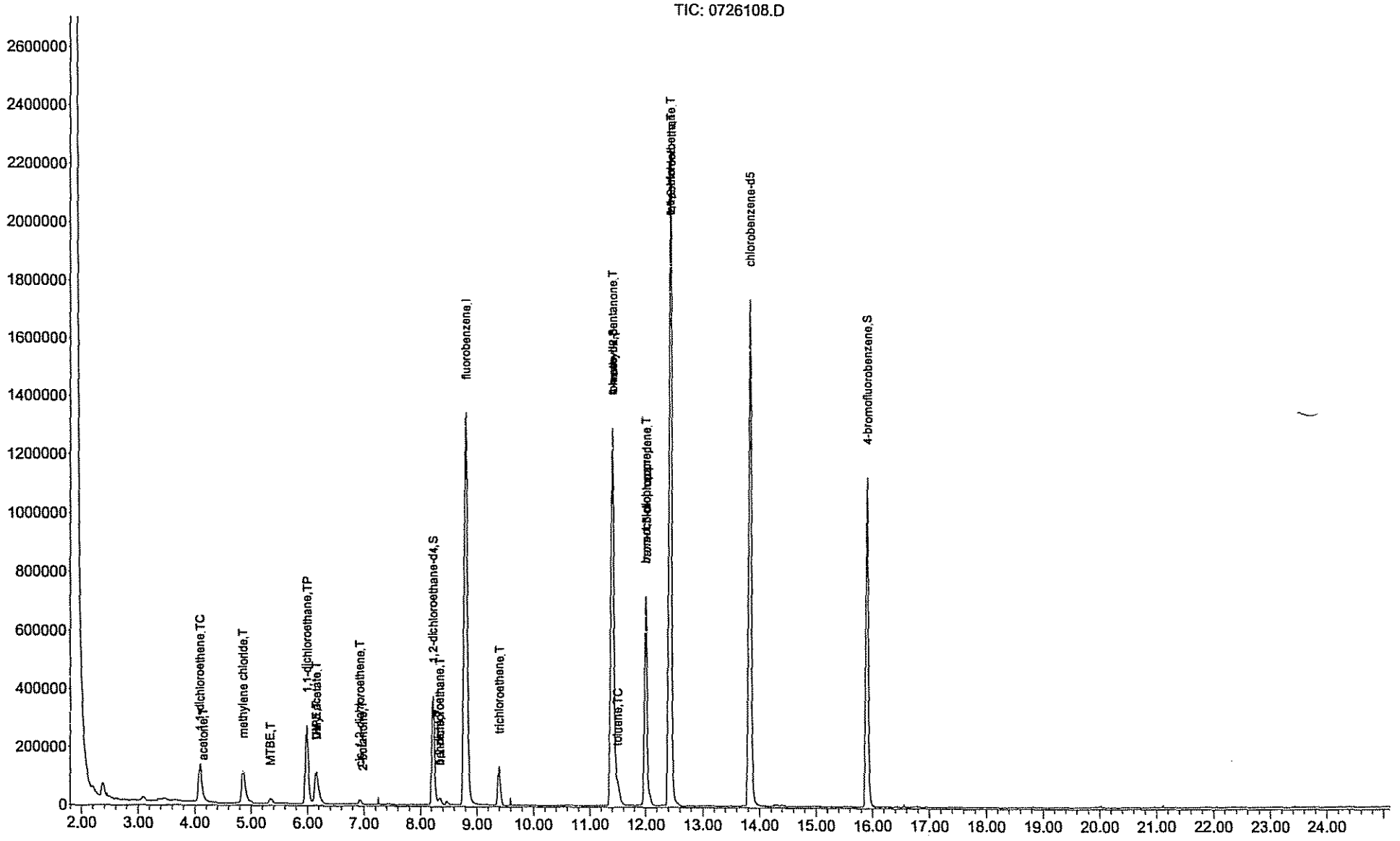
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	2998910	10.00 ppb	0.00
39) bromochloropropane	12.00	79	271641	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2113698	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	414638	8.82 ppb	0.00
Spiked Amount 10.000			Recovery	= 88.20%	
33) toluene-d8	11.39	98	2069586	9.82 ppb	0.00
Spiked Amount 10.000			Recovery	= 98.20%	
49) 4-bromofluorobenzene	15.89	95	866288	9.45 ppb	0.00
Spiked Amount 10.000			Recovery	= 94.50%	

Target Compounds					Qvalue
9) 1,1-dichloroethene	4.10	96	117123	2.51 ppb #	87
10) acetone	4.16	43	19618	2.16 ppb #	71
11) methylene chloride	4.86	84	126905	2.90 ppb	88
14) 1,1-dichloroethane	5.99	63	591409	5.09 ppb	95
16) cis-1,2-dichloroethene	6.93	96	13249	0.24 ppb #	76
17) 2-butanone	6.98	43	1308	0.12 ppb #	60
24) benzene	8.34	78	31824	0.16 ppb	99
25) 1,2-dichloroethane	8.34	62	10915	0.24 ppb	73
26) trichloroethene	9.39	95	82032	1.56 ppb	95
32) 4-methyl-2-pentanone	11.39	43	8876	0.42 ppb #	1
34) toluene	11.50	92	69593	0.54 ppb	99
36) trans-1,3-dichloropropene	11.99	75	8284	0.24 ppb #	44
37) Vinyl acetate	6.14	43	115678	1.12 ppb #	78
40) 1,1,2-trichloroethane	12.42	83	25794	1.30 ppb #	18
41) tetrachloroethene	12.42	166	1397967	25.13 ppb	99
77) MTBE	5.34	73	31040	0.49 ppb	95
78) DIPE	6.15	45	290948	1.41 ppb	89

(#) = qualifier out of range (m) = manual integration
0726108.D 6210D.M Tue Jul 26 11:39:24 2005

Data File : D:\HPCHEM\1\DATA\1072605\0726108.D Vial: 8
Acq On : 26 Jul 2005 11:14 am Operator: JTF
Sample : g161-2083-1a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 11:39 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726110.D Vial: 10
Acq On : 26 Jul 2005 12:17 pm Operator: JTF
Sample : g161-2083-2a x10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 12:42 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.80	96	2951643	10.00 ppb	0.00
39) bromochloropropane	11.99	79	262613	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2104127	10.00 ppb	0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.23	65	416052	8.99 ppb	0.01
Spiked Amount 10.000			Recovery	= 89.90%	
33) toluene-d8	11.38	98	2041952	9.84 ppb	0.00
Spiked Amount 10.000			Recovery	= 98.40%	
49) 4-bromofluorobenzene	15.89	95	858369	9.68 ppb	0.00
Spiked Amount 10.000			Recovery	= 96.80%	

Target Compounds					Qvalue
9) 1,1-dichloroethene	4.10	96	17571	0.38 ppb #	77
10) acetone	4.19	43	6318	0.14 ppb #	37
14) 1,1-dichloroethane	5.98	63	71423	0.62 ppb	97
26) trichloroethene	9.39	95	10697	0.21 ppb	93
32) 4-methyl-2-pentanone	11.38	43	7492	0.36 ppb #	1
36) trans-1,3-dichloropropene	11.99	75	9063	0.27 ppb #	44
40) 1,1,2-trichloroethane	12.42	83	9420	0.37 ppb #	1
41) tetrachloroethene	12.42	166	554087	10.30 ppb	98

(#) = qualifier out of range (m) = manual integration
0726110.D 6210D.M Tue Jul 26 12:42:26 2005

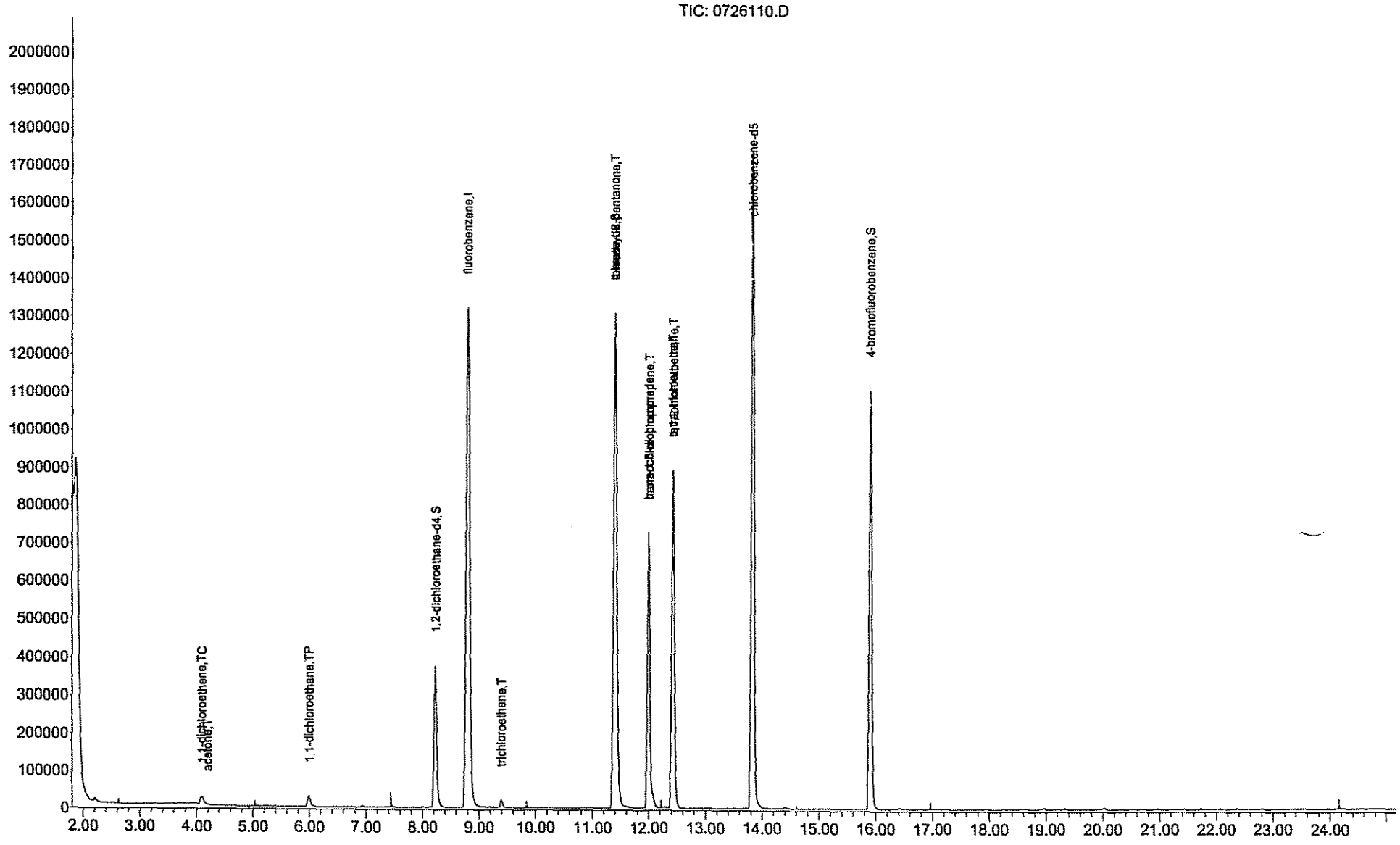
Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726110.D
Acq On : 26 Jul 2005 12:17 pm
Sample : g161-2083-2a x10
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 26 12:42 2005

Vial: 10
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726109.D Vial: 9
Acq On : 26 Jul 2005 11:45 am Operator: JTF
Sample : g161-2083-3a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 12:10 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.79	96	2953315	10.00	ppb	0.00
39) bromochloropropane	12.00	79	268532	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2102123	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.23	65	422646	9.13	ppb	0.02
Spiked Amount 10.000			Recovery	=	91.30%	
33) toluene-d8	11.39	98	2044676	9.85	ppb	0.00
Spiked Amount 10.000			Recovery	=	98.50%	
49) 4-bromofluorobenzene	15.90	95	856838	9.45	ppb	0.00
Spiked Amount 10.000			Recovery	=	94.50%	

Target Compounds							Qvalue
9) 1,1-dichloroethene	4.09	96	119511	2.60	ppb		92
10) acetone	4.19	43	18610	2.05	ppb	#	37
11) methylene chloride	4.86	84	129017	3.00	ppb		91
14) 1,1-dichloroethane	5.99	63	597425	5.22	ppb		98
16) cis-1,2-dichloroethene	6.93	96	13902	0.26	ppb	#	74
17) 2-butanone	6.97	43	4036	0.37	ppb	#	60
24) benzene	8.34	78	31779	0.16	ppb		96
25) 1,2-dichloroethane	8.34	62	10429	0.24	ppb		73
26) trichloroethene	9.39	95	84499	1.63	ppb		96
34) toluene	11.50	92	70723	0.56	ppb		90
36) trans-1,3-dichloropropene	11.99	75	8952	0.27	ppb	#	44
37) Vinyl acetate	6.15	43	115224	1.13	ppb	#	78
40) 1,1,2-trichloroethane	12.41	83	25109	1.27	ppb	#	16
41) tetrachloroethene	12.42	166	1406077	25.57	ppb		98
77) MTBE	5.33	73	30893	0.49	ppb		93
78) DIPE	6.15	45	298420	1.45	ppb		91

(#) = qualifier out of range (m) = manual integration
0726109.D 6210D.M Tue Jul 26 12:10:51 2005

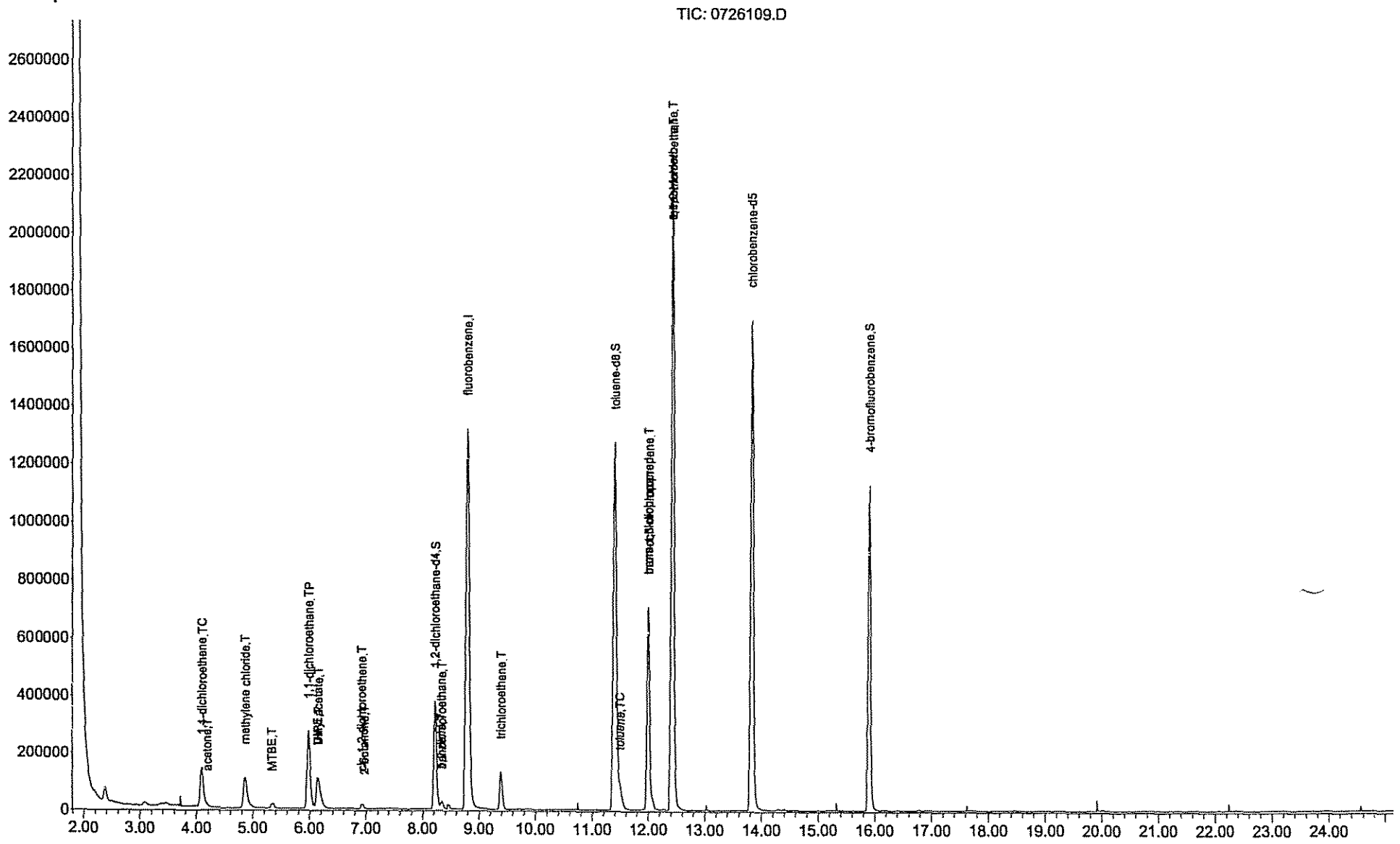
Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726109.D
Acq On : 26 Jul 2005 11:45 am
Sample : g161-2083-3a
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 26 12:10 2005

Vial: 9
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726107.D Vial: 7
Acq On : 26 Jul 2005 10:42 am Operator: JTF
Sample : g161-2083-4a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 11:07 2005 Quant Results File: 6210D.RES

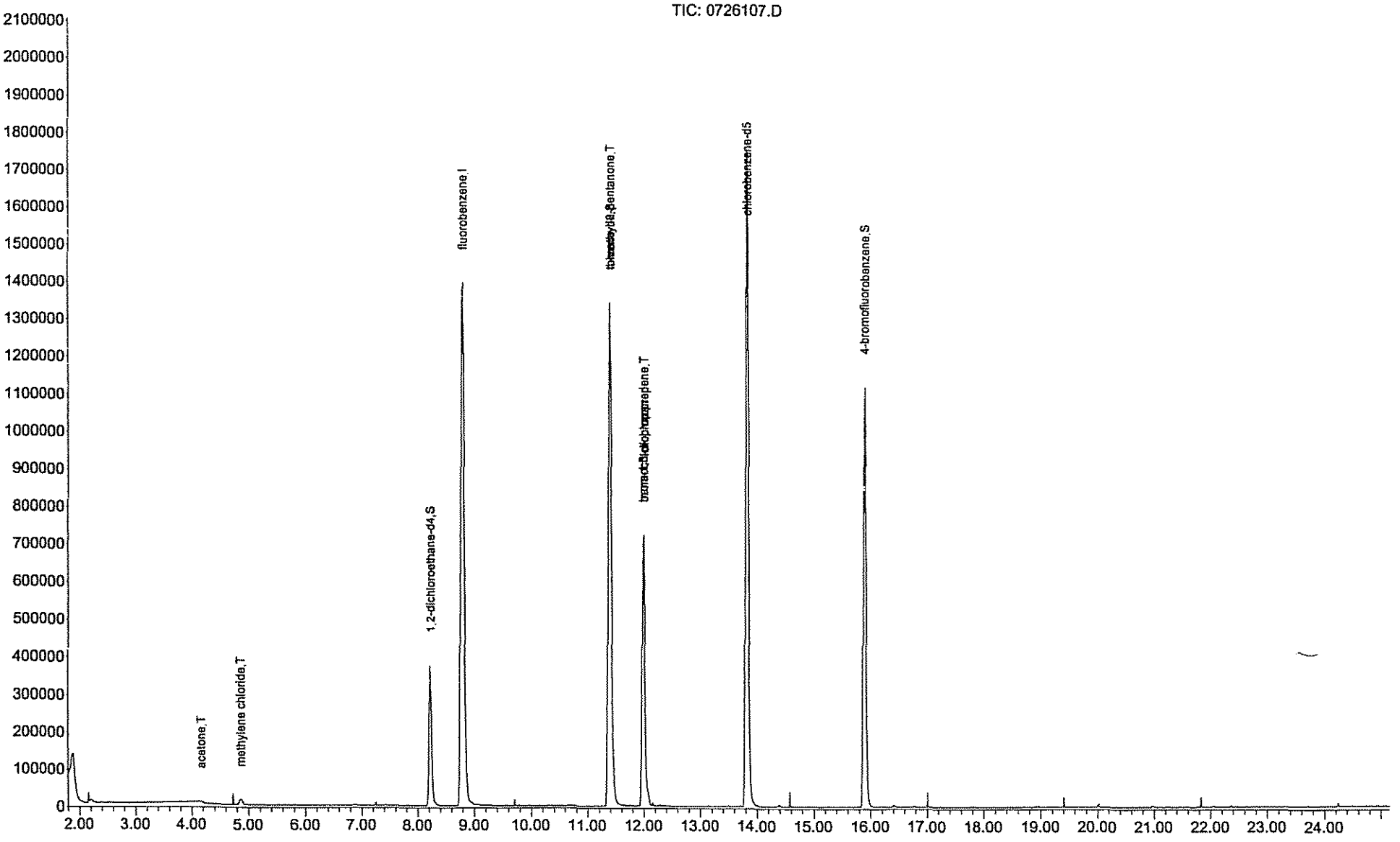
Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.79	96	3023139	10.00	ppb	0.00
39) bromochloropropane	12.00	79	270885	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2116912	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	411844	8.69	ppb	0.00
Spiked Amount 10.000			Recovery	=	86.90%	
33) toluene-d8	11.39	98	2098827	9.88	ppb	0.00
Spiked Amount 10.000			Recovery	=	98.80%	
49) 4-bromofluorobenzene	15.89	95	861487	9.42	ppb	0.00
Spiked Amount 10.000			Recovery	=	94.20%	
Target Compounds						Qvalue
10) acetone	4.17	43	11704	0.94	ppb #	46
11) methylene chloride	4.85	84	17045	0.39	ppb	91
32) 4-methyl-2-pentanone	11.38	43	8316	0.39	ppb #	1
36) trans-1,3-dichloropropene	12.00	75	8748	0.25	ppb #	44

(#) = qualifier out of range (m) = manual integration
0726107.D 6210D.M Tue Jul 26 11:07:52 2005

Data File : D:\HPCHEM\1\DATA\1072605\0726107.D Vial: 7
Acq On : 26 Jul 2005 10:42 am Operator: JTF
Sample : g161-2083-4a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 11:07 2005 Quant Results File: 6210D.RES

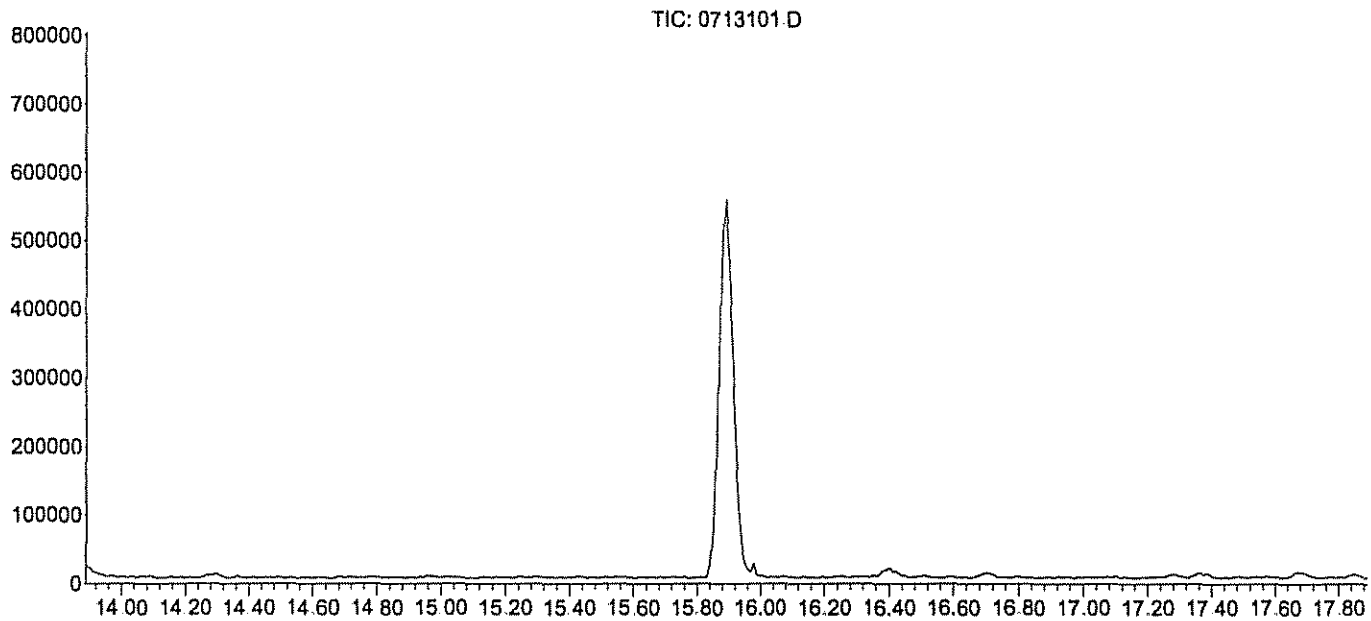
Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

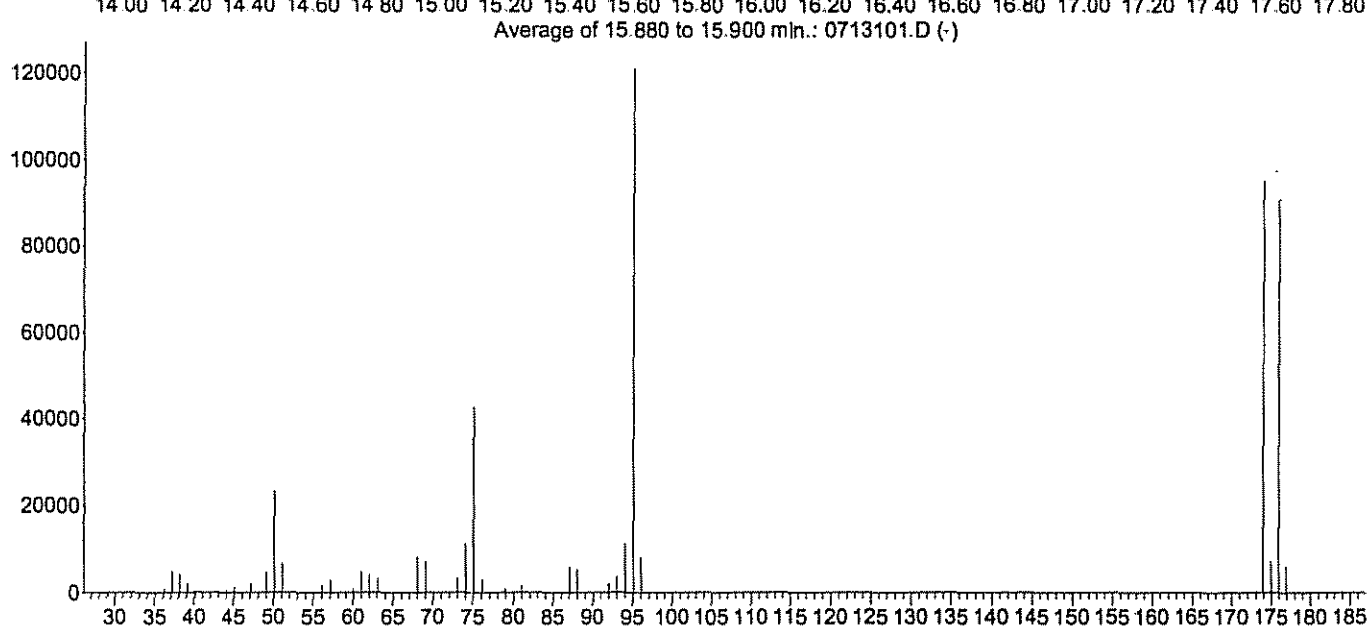


6210d Tuning

BFB

Data File : D:\HPCHEM\1\DATA\1071305\0713101.D Vial: 1
Acq On : 13 Jul 2005 2:30 pm Operator: JTF
Sample : bfb 50ng Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX





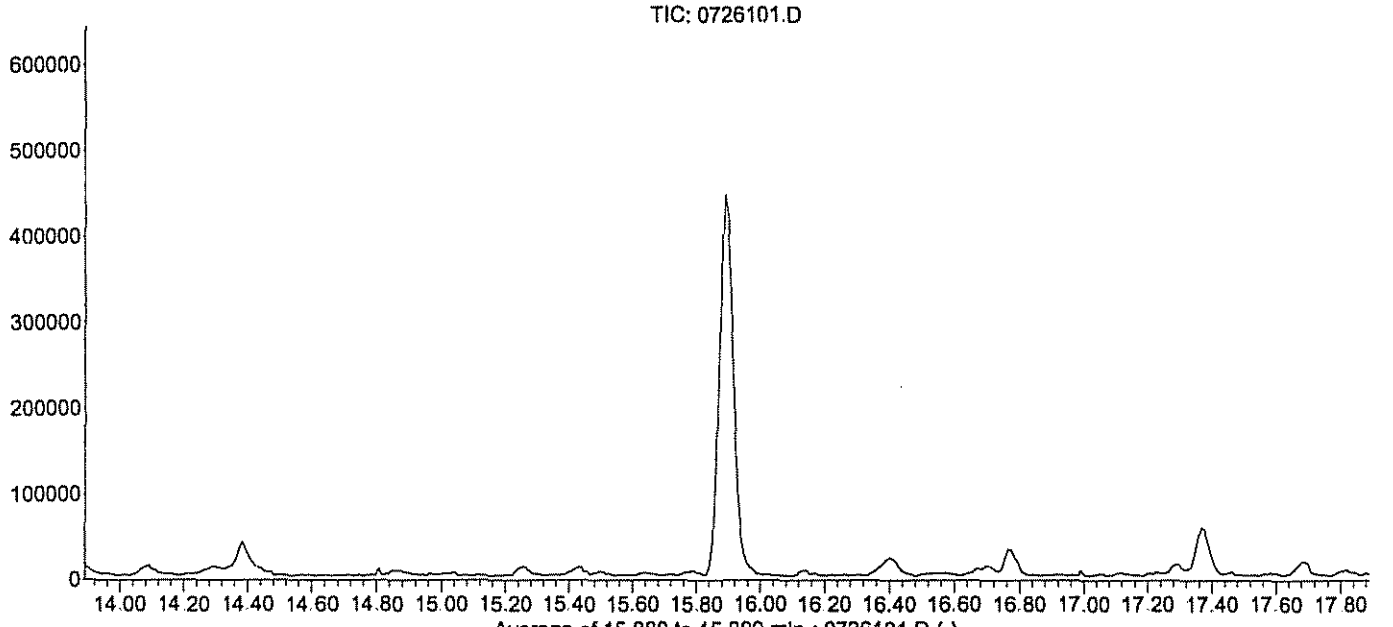
AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1424

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	23221	PASS
75	95	30	60	35.4	42923	PASS
95	95	100	100	100.0	121141	PASS
96	95	5	9	6.8	8199	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.6	95200	PASS
175	174	5	9	7.6	7278	PASS
176	174	95	101	95.7	91091	PASS
177	176	5	9	6.7	6146	PASS

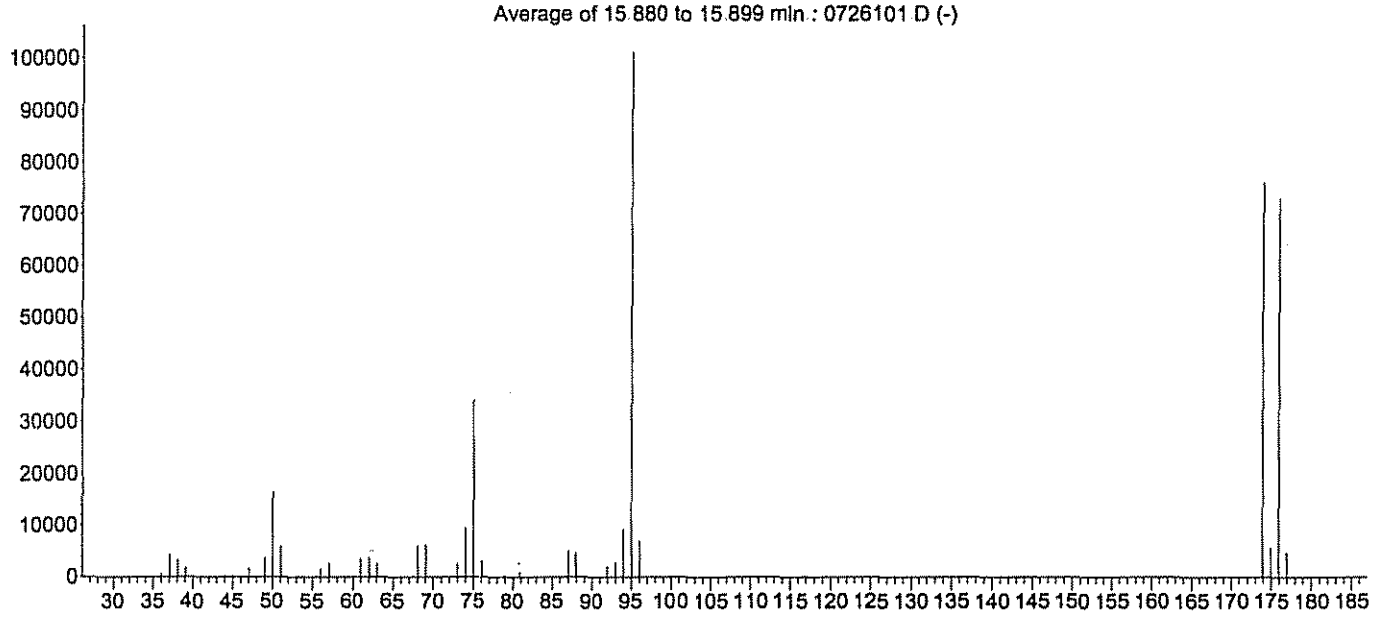
0713101.D 6210D.M Thu Jul 28 15:14:27 2005

BFB

Data File : D:\HPCHEM\1\DATA\1072605\0726101.D Vial: 1
Acq On : 26 Jul 2005 7:34 am Operator: JTF
Sample : bfb 50ng Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX



Average of 15.880 to 15.899 min.: 0726101.D (-)



AutoFind: Scans 1432, 1433, 1434; Background Corrected with Scan 1425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	16450	PASS
75	95	30	60	33.8	34243	PASS
95	95	100	100	100.0	101235	PASS
96	95	5	9	6.9	6975	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.3	76237	PASS
175	174	5	9	7.4	5649	PASS
176	174	95	101	95.9	73107	PASS
177	176	5	9	6.6	4833	PASS

0726101.D 6210D.M Thu Jul 28 15:18:59 2005

6210d Calibration Raw Data

Response Factor Report MSD1

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

Calibration Files
4 =0713106.D 3 =0713104.D 1 =0713102.D
2 =0713103.D 6 =0713105.D 7 =0713107.D

		Compound	4	3	1	2	6	7	Avg	%RSD
1)	I	fluorobenzene	ISTD							
2)	T	dichlorodifluoromet	0.206	0.182	0.188	0.190	0.211	0.202	0.197	5.80
3)	TP	chloromethane	0.312	0.298	0.348	0.311	0.325	0.313	0.318	5.39
4)	TC	vinyl chloride	0.317	0.285	0.282	0.290	0.324	0.316	0.302	6.18
5)	T	bromomethane	0.109	0.113	0.104	0.110	0.122	0.092	0.108	9.32
6)	T	chloroethane	0.144	0.139	0.154	0.143	0.154	0.112	0.141	10.89
7)	T	trichlorofluorometh	0.201	0.187	0.203	0.195	0.211	0.194	0.198	4.08
8)	T	acrolein	0.011	0.011	0.012	0.011	0.011	0.011	0.011	4.71
9)	TC	1,1-dichloroethene	0.155	0.153	0.137	0.179	0.158	0.152	0.156	8.56
10)	T	acetone	0.019	0.026	0.032	0.030	0.023	0.022	0.026	19.95
11)	T	methylene chloride	0.146	0.144	0.133	0.167	0.145	0.140	0.146	7.79
12)	T	trans-1,2-dichloroe	0.191	0.189	0.162	0.209	0.194	0.183	0.188	8.20
13)	T	acrylonitrile	0.031	0.028	0.031	0.029	0.031	0.031	0.030	4.44
14)	TP	1,1-dichloroethane	0.391	0.377	0.345	0.442	0.391	0.378	0.387	8.13
15)	T	2,2-dichloropropane	0.194	0.205	0.186	0.238	0.194	0.178	0.199	10.60
16)	T	cis-1,2-dichloroeth	0.187	0.183	0.156	0.213	0.186	0.181	0.185	9.84
17)	T	2-butanone	0.035	0.035	0.038	0.046	0.033	0.033	0.036	13.26
18)	T	bromochloromethane	0.066	0.066	0.052	0.074	0.066	0.066	0.065	11.14
19)	TC	chloroform	0.251	0.248	0.228	0.287	0.253	0.242	0.252	7.83
20)	T	1,1,1-trichloroetha	0.219	0.218	0.194	0.256	0.223	0.208	0.220	9.40
21)	T	carbon tetrachlorid	0.188	0.186	0.162	0.211	0.189	0.177	0.185	8.70
22)	T	1,1-dichloropropene	0.216	0.212	0.190	0.243	0.217	0.207	0.214	8.03
23)	S	1,2-dichloroethane-	0.153	0.162	0.160	0.162	0.154	0.150	0.157	3.46
24)	T	benzene	0.649	0.642	0.607	0.738	0.654	0.633	0.654	6.83
25)	T	1,2-dichloroethane	0.148	0.149	0.135	0.172	0.149	0.140	0.149	8.54
26)	T	trichloroethene	0.179	0.172	0.151	0.199	0.182	0.171	0.176	9.02
27)	TC	1,2-dichloropropane	0.194	0.191	0.176	0.220	0.193	0.188	0.194	7.62
28)	T	dibromomethane	0.050	0.049	0.038	0.056	0.049	0.048	0.048	11.42
29)	T	bromodichloromethan	0.142	0.141	0.122	0.164	0.142	0.134	0.141	9.76
30)	T	2-chloroethyl vinyl		0.009	0.007	0.011	0.013	0.030	0.014	66.04
31)	T	cis-1,3-dichloropro	0.172	0.166	0.139	0.195	0.168	0.168	0.168	10.61
32)	T	4-methyl-2-pentanon	0.070	0.066	0.064	0.084	0.068	0.069	0.070	10.05
33)	S	toluene-d8	0.715	0.700	0.693	0.699	0.706	0.704	0.703	1.03
34)	TC	toluene	0.433	0.420	0.374	0.483	0.434	0.424	0.428	8.16
35)	T	Iodomethane	0.270	0.180	0.054	0.175	0.265	0.275	0.203	42.33
36)	T	trans-1,3-dichlorop	0.117	0.110	0.099	0.132	0.114	0.112	0.114	9.46
37)	T	Vinyl acetate	0.319	0.341	0.317	0.410	0.333		0.344	11.16
38)	T	Carbon disulfide	0.562	0.553	0.497	0.625	0.563	0.540	0.557	7.45
39)	I	bromochloropropane	ISTD							
40)	T	1,1,2-trichloroetha		0.651	0.496	0.765	0.660	0.636	0.641	14.97
41)	T	tetrachloroethene	2.085	2.007	1.827	2.353	2.090	1.927	2.048	8.77
42)	T	1,3-dichloropropane		1.459	1.226	1.661	1.451	1.386	1.437	10.91
43)	T	2-hexanone	0.544	0.506	0.482	0.632	0.509	0.524	0.533	9.92
44)	T	dibromochloromethan	1.094	1.065	0.861	1.204	1.096	1.043	1.060	10.57
45)	T	1,2-dibromoethane	0.778	0.768	0.562	0.880	0.784	0.755	0.754	13.82
46)	TP	chlorobenzene	4.869	4.708	4.230	5.529	4.865	4.627	4.805	8.85
47)	T	1,1,1,2-tetrachloro	1.556	1.519	1.300	1.838	1.559	1.470	1.540	11.33
48)	TP	bromoform	0.504	0.477	0.319	0.586	0.489	0.485	0.477	18.25
49)	S	4-bromofluorobenzen	3.426	3.341	3.265	3.362	3.455	3.405	3.376	2.02
50)	T	bromobenzene	1.677	1.622	1.473	1.880	1.651	1.581	1.647	8.16
51)	TP	1,1,2,2-tetrachloro		0.739	0.622	0.928	0.769	0.730	0.758	14.54
52)	T	1,2,3-trichloroprop	1.364	1.255	0.523	1.540	1.266	1.349	1.216	29.14
53)		chlorobenzene-d5	ISTD							
54)	TC	ethylbenzene	1.054	1.008	0.922	1.166	1.045	1.044	1.040	7.58
55)	T	m/p-xylene	0.414	0.397	0.356	0.462	0.413	0.400	0.407	8.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD1

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

Calibration Files
4 =0713106.D 3 =0713104.D 1 =0713102.D
2 =0713103.D 6 =0713105.D 7 =0713107.D

		Compound	4	3	1	2	6	7	Avg	%RSD
56)	T	styrene	0.532	0.500	0.412	0.573	0.522	0.517	0.509	10.48
57)	T	o-xylene	0.384	0.363	0.303	0.425	0.377	0.366	0.369	10.73
58)	T	isopropylbenzene	1.024	0.955	0.835	1.126	1.002	0.997	0.990	9.59
59)	T	n-propyl benzene	1.178	1.087	0.994	1.307	1.164	1.155	1.147	9.04
60)	T	2-chlorotoluene	0.248	0.239	0.199	0.282	0.247	0.219	0.239	11.86
61)	T	4-chlorotoluene	0.251	0.241	0.215	0.279	0.248	0.235	0.245	8.64
62)	T	1,3,5-trimethylbenz	0.768	0.718	0.625	0.842	0.753	0.729	0.739	9.61
63)	T	tert-butylbenzene	0.737	0.685	0.634	0.838	0.731	0.675	0.717	9.88
64)	T	1,2,4-trimethylbenz	0.731	0.671	0.575	0.805	0.712	0.710	0.701	10.83
65)	T	sec-butylbenzene	1.006	0.928	0.834	1.099	0.993	0.985	0.974	9.04
66)	T	1,3-dichlorobenzene	0.440	0.421	0.394	0.514	0.433	0.420	0.437	9.39
67)	T	4-isopropyltoluene	0.883	0.802	0.728	0.968	0.855	0.852	0.848	9.46
68)	T	1,4-dichlorobenzene	0.423	0.402	0.374	0.496	0.415	0.404	0.419	9.84
69)	T	1,2-dichlorobenzene	0.338	0.320	0.283	0.398	0.333	0.317	0.331	11.37
70)	T	n-butylbenzene	0.661	0.590	0.541	0.725	0.638	0.640	0.632	9.90
71)	T	1,2-dibromo-3-chlor	0.011	0.011	0.008	0.014	0.011	0.011	0.011	18.65
72)	T	1,2,4-trichlorobenz	0.164	0.146	0.144	0.186	0.153	0.154	0.158	9.69
73)	T	hexachlorobutadiene	0.094	0.086	0.100	0.116	0.088	0.088	0.095	11.93
74)	T	naphthalene	0.196	0.168	0.181	0.219	0.181	0.184	0.188	9.31
75)	T	trans-1,4-Dichloro-	0.010	0.009	0.006	0.011	0.010	0.011	0.010	18.22
76)	T	1,2,3-trichlorobenz	0.117	0.104	0.099	0.131	0.112	0.109	0.112	9.89
77)	T	MTBE	0.299	0.297	0.264	0.359	0.295	0.295	0.302	10.25
78)	T	DIPE	0.973	0.967	0.864	1.146	0.968	0.957	0.979	9.34

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713102.D Vial: 2
Acq On : 13 Jul 2005 3:01 pm Operator: JTF
Sample : vstd0.5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	3886119	10.00	ppb		-0.01
39) bromochloropropane	11.99	79	352716	10.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2817021	10.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.22	65	623012	10.22	ppb		0.00
Spiked Amount 10.000			Recovery	=	102.20%		
33) toluene-d8	11.38	98	2694799	9.87	ppb		0.00
Spiked Amount 10.000			Recovery	=	98.70%		
49) 4-bromofluorobenzene	15.89	95	1151620	9.67	ppb		0.00
Spiked Amount 10.000			Recovery	=	96.70%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.04	85	36538	0.48	ppb		91
3) chloromethane	2.29	50	67622	0.55	ppb		99
4) vinyl chloride	2.39	62	54731	0.47	ppb		89
5) bromomethane	2.81	94	20140	0.48	ppb		85
6) chloroethane	2.98	64	29908	0.55	ppb		93
7) trichlorofluoromethane	3.31	101	39378	0.51	ppb		100
8) acrolein	3.91	56	60585	13.61	ppb		89
9) 1,1-dichloroethene	4.09	96	26695	0.44	ppb	#	75
10) acetone	4.17	43	31427	2.87	ppb	#	72
11) methylene chloride	4.85	84	25887	0.46	ppb		95
12) trans-1,2-dichloroethene	5.31	96	31519	0.43	ppb	#	86
13) acrylonitrile	5.24	53	150616	12.78	ppb		98
14) 1,1-dichloroethane	5.98	63	67055	0.45	ppb		93
15) 2,2-dichloropropane	6.92	77	36171	0.47	ppb		94
16) cis-1,2-dichloroethene	6.91	96	30388	0.42	ppb		96
17) 2-butanone	6.96	43	36564	2.58	ppb	#	70
18) bromochloromethane	7.29	128	10053	0.40	ppb	#	76
19) chloroform	7.44	83	44274	0.45	ppb		94
20) 1,1,1-trichloroethane	7.75	97	37696	0.44	ppb		92
21) carbon tetrachloride	8.00	117	31394	0.44	ppb		99
22) 1,1-dichloropropene	8.01	75	37002	0.44	ppb		91
24) benzene	8.34	78	117859	0.46	ppb		96
25) 1,2-dichloroethane	8.34	62	26153	0.45	ppb		73
26) trichloroethene	9.38	95	29244	0.43	ppb		91
27) 1,2-dichloropropane	9.73	63	34105	0.45	ppb		90
28) dibromomethane	9.90	93	7475	0.40	ppb	#	80
29) bromodichloromethane	10.18	83	23620	0.43	ppb		96
30) 2-chloroethyl vinyl ether	10.69	106	3538	6.83	ppb	#	74
31) cis-1,3-dichloropropene	10.93	75	26973	0.41	ppb		85
32) 4-methyl-2-pentanone	11.19	43	62267	2.28	ppb	#	85
34) toluene	11.50	92	72678	0.44	ppb		97
35) Iodomethane	4.30	142	10524	0.94	ppb	#	86
36) trans-1,3-dichloropropene	11.85	75	19269	0.43	ppb		87
37) Vinyl acetate	6.09	43	153922	1.15	ppb		99
38) Carbon disulfide	4.42	76	96656	0.45	ppb	#	95
40) 1,1,2-trichloroethane	12.15	83	8741	0.19	ppb		91
41) tetrachloroethene	12.41	166	32216	0.45	ppb		92
42) 1,3-dichloropropane	12.42	76	21616	0.43	ppb		95
43) 2-hexanone	12.60	43	42477	2.26	ppb	#	97
44) dibromochloromethane	12.81	129	15190	0.41	ppb		81
45) 1,2-dibromoethane	12.99	107	9909	0.37	ppb		89
46) chlorobenzene	13.87	112	74592	0.44	ppb		97
47) 1,1,1,2-tetrachloroethane	14.02	131	22920	0.42	ppb		91

(#) = qualifier out of range (m) = manual integration
0713102.D 6210D.M Thu Jul 28 15:14:38 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713102.D Vial: 2
Acq On : 13 Jul 2005 3:01 pm Operator: JTF
Sample : vstd0.5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

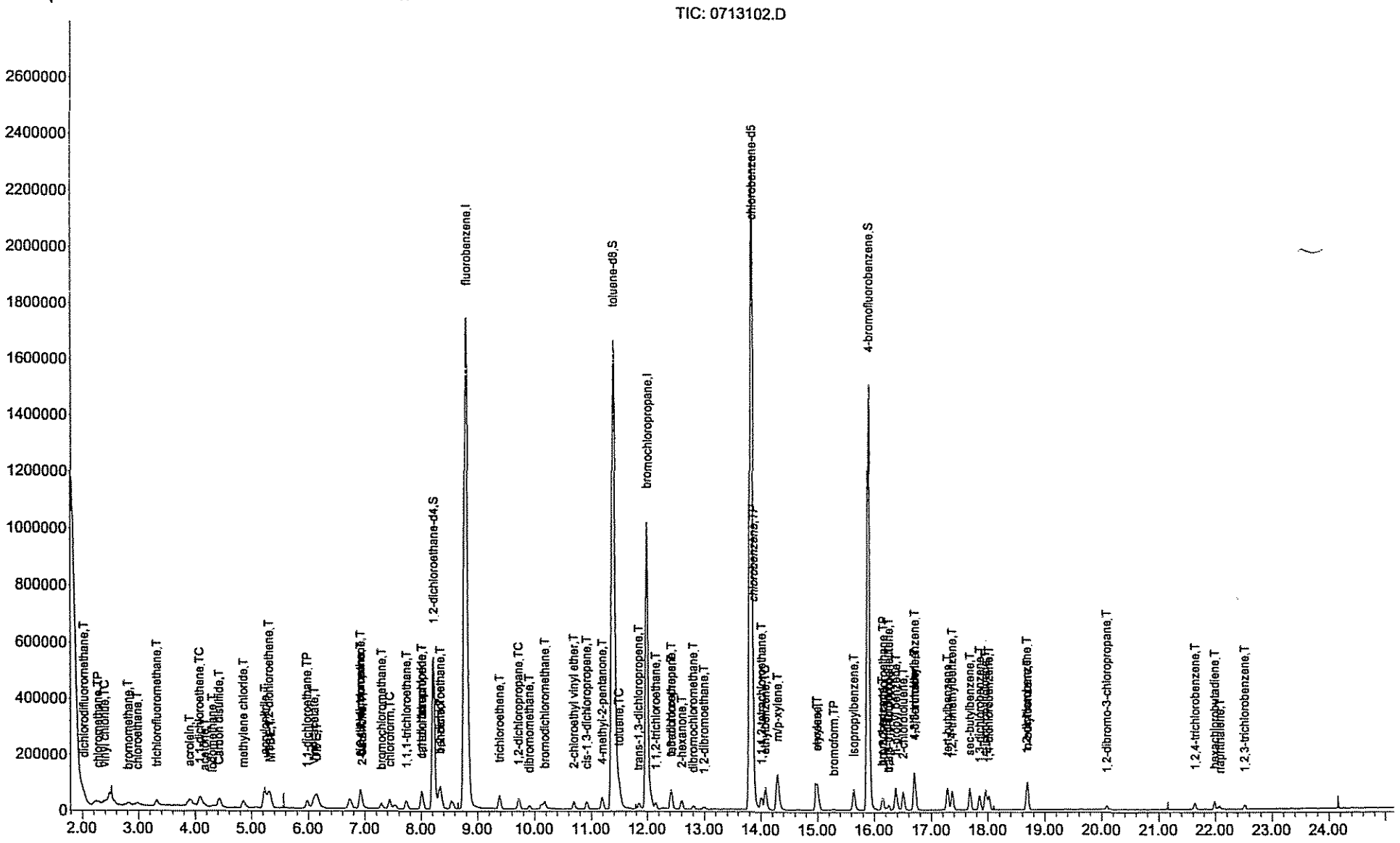
Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.28	173	5627	0.17 ppb		83
50)	bromobenzene	16.14	156	25979	0.45 ppb		84
51)	1,1,2,2-tetrachloroethane	16.16	83	10973	0.41 ppb		90
52)	1,2,3-trichloropropane	16.24	75	9231	0.39 ppb		95
54)	ethylbenzene	14.07	91	129829	0.44 ppb		98
55)	m/p-xylene	14.29	106	100299	0.87 ppb		98
56)	styrene	15.00	104	58094	0.40 ppb		100
57)	o-xylene	14.98	106	42631	0.41 ppb		95
58)	isopropylbenzene	15.64	105	117650	0.42 ppb		100
59)	n-propyl benzene	16.38	91	140019	0.43 ppb		100
60)	2-chlorotoluene	16.50	126	28051	0.42 ppb		96
61)	4-chlorotoluene	16.70	126	30271	0.44 ppb	#	97
62)	1,3,5-trimethylbenzene	16.70	105	87997	0.42 ppb		100
63)	tert-butylbenzene	17.28	119	89235	0.44 ppb		89
64)	1,2,4-trimethylbenzene	17.36	105	80958	0.41 ppb		96
65)	sec-butylbenzene	17.68	105	117527	0.43 ppb		94
66)	1,3-dichlorobenzene	17.85	146	55441	0.45 ppb		93
67)	4-isopropyltoluene	17.95	119	102585	0.43 ppb		97
68)	1,4-dichlorobenzene	18.01	146	52703	0.45 ppb		94
69)	1,2-dichlorobenzene	18.67	146	39902	0.43 ppb		96
70)	n-butylbenzene	18.70	91	76178	0.43 ppb		96
71)	1,2-dibromo-3-chloropropan	20.09	75	5390	0.22 ppb		96
72)	1,2,4-trichlorobenzene	21.64	180	20338	0.46 ppb		95
73)	hexachlorobutadiene	21.99	225	14150	0.53 ppb		82
74)	naphthalene	22.06	128	25503	0.48 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.26	89	4376	4.02 ppb	#	74
76)	1,2,3-trichlorobenzene	22.52	180	14002	0.44 ppb		81
77)	MTBE	5.35	73	37148	0.44 ppb		90
78)	DIPE	6.15	45	121722	0.44 ppb		93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\1071305\0713102.D Vial: 2
Acq On : 13 Jul 2005 3:01 pm Operator: JTF
Sample : vstd0.5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713103.D Vial: 3
Acq On : 13 Jul 2005 3:32 pm Operator: JTF
Sample : vstd2 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.78	96	3813648	10.00	ppb	-0.01
39) bromochloropropane	11.99	79	345279	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2788535	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	618740	10.35	ppb	0.00
Spiked Amount 10.000			Recovery	=	103.50%	
33) toluene-d8	11.38	98	2665813	9.95	ppb	0.00
Spiked Amount 10.000			Recovery	=	99.50%	
49) 4-bromofluorobenzene	15.88	95	1160766	9.96	ppb	0.00
Spiked Amount 10.000			Recovery	=	99.60%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	2.03	85	144915	1.93	ppb		93
3) chloromethane	2.30	50	237210	1.96	ppb		99
4) vinyl chloride	2.40	62	221320	1.92	ppb		99
5) bromomethane	2.82	94	83877	2.03	ppb		97
6) chloroethane	2.97	64	109068	2.03	ppb		99
7) trichlorofluoromethane	3.33	101	148513	1.96	ppb		90
8) acrolein	3.90	56	215765	49.40	ppb		94
9) 1,1-dichloroethene	4.09	96	136159	2.29	ppb		95
10) acetone	4.16	43	116234	13.16	ppb		92
11) methylene chloride	4.86	84	127350	2.29	ppb		95
12) trans-1,2-dichloroethene	5.31	96	159471	2.22	ppb		94
13) acrylonitrile	5.23	53	561899	48.60	ppb		99
14) 1,1-dichloroethane	5.98	63	336889	2.28	ppb		95
15) 2,2-dichloropropane	6.92	77	181882	2.39	ppb		99
16) cis-1,2-dichloroethene	6.92	96	162784	2.31	ppb		97
17) 2-butanone	6.94	43	174148	12.52	ppb		93
18) bromochloromethane	7.29	128	56440	2.28	ppb		96
19) chloroform	7.43	83	219020	2.28	ppb		100
20) 1,1,1-trichloroethane	7.74	97	195328	2.33	ppb		96
21) carbon tetrachloride	8.00	117	160608	2.27	ppb		98
22) 1,1-dichloropropene	8.01	75	185554	2.27	ppb		95
24) benzene	8.33	78	563017	2.26	ppb		100
25) 1,2-dichloroethane	8.34	62	130978	2.31	ppb		100
26) trichloroethene	9.38	95	151749	2.26	ppb		98
27) 1,2-dichloropropane	9.72	63	168123	2.28	ppb		99
28) dibromomethane	9.90	93	42387	2.30	ppb		92
29) bromodichloromethane	10.18	83	124907	2.33	ppb		94
30) 2-chloroethyl vinyl ether	10.69	106	21191	8.30	ppb		97
31) cis-1,3-dichloropropene	10.93	75	148576	2.32	ppb		99
32) 4-methyl-2-pentanone	11.19	43	320344	11.94	ppb	#	92
34) toluene	11.49	92	368600	2.26	ppb		100
35) Iodomethane	4.32	142	133221	2.09	ppb		98
36) trans-1,3-dichloropropene	11.85	75	100979	2.32	ppb		97
37) Vinyl acetate	6.08	43	782274	5.96	ppb		98
38) Carbon disulfide	4.42	76	477047	2.25	ppb		98
40) 1,1,2-trichloroethane	12.15	83	52799	2.21	ppb		97
41) tetrachloroethene	12.41	166	162504	2.30	ppb		98
42) 1,3-dichloropropane	12.42	76	114735	2.31	ppb		95
43) 2-hexanone	12.60	43	218252	11.87	ppb		99
44) dibromochloromethane	12.80	129	83114	2.27	ppb		97
45) 1,2-dibromoethane	12.99	107	60738	2.33	ppb		87
46) chlorobenzene	13.87	112	381805	2.30	ppb		97
47) 1,1,1,2-tetrachloroethane	14.01	131	126909	2.39	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713103.D Vial: 3
Acq On : 13 Jul 2005 3:32 pm Operator: JTF
Sample : vstd2 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.28	173	40486	2.26 ppb		91
50)	bromobenzene	16.14	156	129813	2.28 ppb		91
51)	1,1,2,2-tetrachloroethane	16.15	83	64068	2.45 ppb		94
52)	1,2,3-trichloropropane	16.25	75	106332	2.47 ppb		93
54)	ethylbenzene	14.07	91	650032	2.24 ppb		100
55)	m/p-xylene	14.29	106	514941	4.54 ppb		98
56)	styrene	15.00	104	319652	2.25 ppb		100
57)	o-xylene	14.97	106	237051	2.30 ppb		100
58)	isopropylbenzene	15.64	105	628109	2.28 ppb		100
59)	n-propyl benzene	16.37	91	728844	2.28 ppb		99
60)	2-chlorotoluene	16.50	126	155782	2.34 ppb		89
61)	4-chlorotoluene	16.70	126	155699	2.28 ppb		99
62)	1,3,5-trimethylbenzene	16.69	105	469613	2.28 ppb		100
63)	tert-butylbenzene	17.27	119	460278	2.30 ppb		100
64)	1,2,4-trimethylbenzene	17.36	105	449159	2.30 ppb		99
65)	sec-butylbenzene	17.68	105	611767	2.25 ppb		93
66)	1,3-dichlorobenzene	17.84	146	286821	2.35 ppb		97
67)	4-isopropyltoluene	17.95	119	540127	2.28 ppb		96
68)	1,4-dichlorobenzene	18.01	146	276687	2.37 ppb		96
69)	1,2-dichlorobenzene	18.67	146	221802	2.40 ppb		96
70)	n-butylbenzene	18.69	91	404076	2.29 ppb		96
71)	1,2-dibromo-3-chloropropan	20.09	75	39361	11.46 ppb	#	85
72)	1,2,4-trichlorobenzene	21.63	180	103591	2.35 ppb		100
73)	hexachlorobutadiene	21.98	225	64707	2.43 ppb		97
74)	naphthalene	22.06	128	121883	2.32 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.25	89	29923	12.44 ppb		85
76)	1,2,3-trichlorobenzene	22.52	180	73047	2.34 ppb		96
77)	MTBE	5.33	73	199976	2.38 ppb		95
78)	DIPE	6.14	45	639113	2.34 ppb		84

(#) = qualifier out of range (m) = manual integration

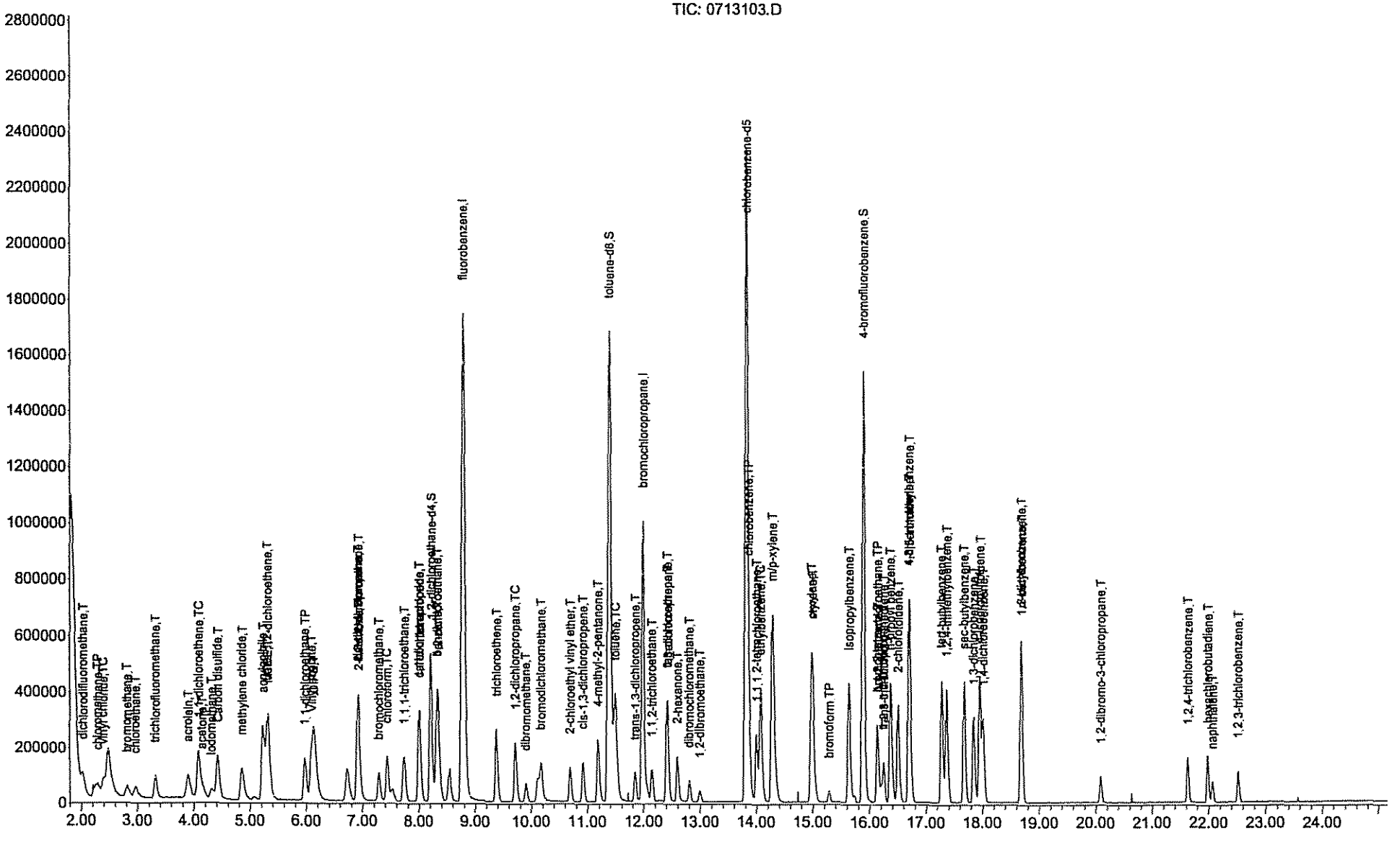
Quantitation Report

Data File : D:\HPCHEM\1\DATA\1071305\0713103.D
Acq On : 13 Jul 2005 3:32 pm
Sample : vstd2
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005

Vial: 3
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713104.D Vial: 4
Acq On : 13 Jul 2005 4:03 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	3783733	10.00 ppb	0.00
39) bromochloropropane	11.98	79	341441	10.00 ppb	0.00
53) chlorobenzene-d5	13.81	117	2772114	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	613370	10.34 ppb	0.00
Spiked Amount 10.000			Recovery	= 103.40%	
33) toluene-d8	11.38	98	2647646	9.96 ppb	0.00
Spiked Amount 10.000			Recovery	= 99.60%	
49) 4-bromofluorobenzene	15.89	95	1140856	9.90 ppb	0.00
Spiked Amount 10.000			Recovery	= 99.00%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	2.04	85	344937	4.64 ppb	98
3) chloromethane	2.29	50	563935	4.69 ppb	98
4) vinyl chloride	2.40	62	539294	4.71 ppb	93
5) bromomethane	2.82	94	214616	5.23 ppb	96
6) chloroethane	2.97	64	263186	4.93 ppb	100
7) trichlorofluoromethane	3.31	101	354449	4.72 ppb	99
8) acrolein	3.91	56	513526	118.51 ppb	99
9) 1,1-dichloroethene	4.09	96	288599	4.90 ppb	96
10) acetone	4.15	43	244144	28.81 ppb	93
11) methylene chloride	4.85	84	272681	4.94 ppb	97
12) trans-1,2-dichloroethene	5.31	96	356910	5.01 ppb	97
13) acrylonitrile	5.22	53	1321926	115.23 ppb	98
14) 1,1-dichloroethane	5.98	63	713191	4.87 ppb	96
15) 2,2-dichloropropane	6.93	77	387837	5.14 ppb	99
16) cis-1,2-dichloroethene	6.92	96	347007	4.97 ppb	95
17) 2-butanone	6.95	43	331253	24.01 ppb	96
18) bromochloromethane	7.29	128	123990	5.04 ppb	100
19) chloroform	7.44	83	470019	4.94 ppb	100
20) 1,1,1-trichloroethane	7.73	97	412543	4.96 ppb	99
21) carbon tetrachloride	8.01	117	351739	5.02 ppb	97
22) 1,1-dichloropropene	8.01	75	401579	4.95 ppb	99
24) benzene	8.33	78	1214311	4.91 ppb	100
25) 1,2-dichloroethane	8.34	62	282032	5.01 ppb	97
26) trichloroethene	9.39	95	326121	4.91 ppb	97
27) 1,2-dichloropropane	9.72	63	360853	4.92 ppb	99
28) dibromomethane	9.90	93	92787	5.08 ppb	97
29) bromodichloromethane	10.17	83	265959	5.00 ppb	96
30) 2-chloroethyl vinyl ether	10.68	106	41361	10.00 ppb	98
31) cis-1,3-dichloropropene	10.92	75	314845	4.95 ppb	98
32) 4-methyl-2-pentanone	11.19	43	623824	23.44 ppb	98
34) toluene	11.49	92	794996	4.91 ppb	93
35) Iodomethane	4.32	142	341478	4.07 ppb	98
36) trans-1,3-dichloropropene	11.85	75	208888	4.83 ppb	97
37) Vinyl acetate	6.09	43	1612814	12.39 ppb	98
38) Carbon disulfide	4.43	76	1046566	4.97 ppb	99
40) 1,1,2-trichloroethane	12.15	83	111090	4.93 ppb	90
41) tetrachloroethene	12.42	166	342670	4.90 ppb	96
42) 1,3-dichloropropane	12.43	76	249090	5.08 ppb	98
43) 2-hexanone	12.60	43	432051	23.75 ppb	98
44) dibromochloromethane	12.81	129	181780	5.02 ppb	95
45) 1,2-dibromoethane	13.00	107	131170	5.09 ppb	94
46) chlorobenzene	13.86	112	803787	4.90 ppb	97
47) 1,1,1,2-tetrachloroethane	14.00	131	259386	4.93 ppb	99

(#) = qualifier out of range (m) = manual integration
0713104.D 6210D.M Thu Jul 28 15:15:02 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713104.D Vial: 4
Acq On : 13 Jul 2005 4:03 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) bromoform	15.29	173	81374	4.75 ppb	99
50) bromobenzene	16.15	156	276912	4.92 ppb	97
51) 1,1,2,2-tetrachloroethane	16.16	83	126206	4.88 ppb	99
52) 1,2,3-trichloropropane	16.25	75	214328	4.83 ppb	93
54) ethylbenzene	14.08	91	1396922	4.85 ppb	99
55) m/p-xylene	14.29	106	1100507	9.76 ppb	97
56) styrene	14.99	104	693488	4.91 ppb	100
57) o-xylene	14.97	106	502830	4.91 ppb	100
58) isopropylbenzene	15.64	105	1323845	4.82 ppb	98
59) n-propyl benzene	16.37	91	1506730	4.74 ppb	98
60) 2-chlorotoluene	16.51	126	323967	4.89 ppb	92
61) 4-chlorotoluene	16.71	126	334144	4.92 ppb	97
62) 1,3,5-trimethylbenzene	16.70	105	995333	4.86 ppb	99
63) tert-butylbenzene	17.28	119	932786	4.69 ppb	97
64) 1,2,4-trimethylbenzene	17.37	105	930565	4.79 ppb	99
65) sec-butylbenzene	17.68	105	1283740	4.75 ppb	98
66) 1,3-dichlorobenzene	17.85	146	582946	4.81 ppb	98
67) 4-isopropyltoluene	17.96	119	1112206	4.73 ppb	100
68) 1,4-dichlorobenzene	18.02	146	556891	4.79 ppb	99
69) 1,2-dichlorobenzene	18.67	146	443509	4.83 ppb	95
70) n-butylbenzene	18.69	91	817088	4.66 ppb	94
71) 1,2-dibromo-3-chloropropan	20.09	75	75412	23.51 ppb	97
72) 1,2,4-trichlorobenzene	21.64	180	202515	4.63 ppb	97
73) hexachlorobutadiene	21.99	225	118779	4.49 ppb	97
74) naphthalene	22.07	128	232399	4.46 ppb	100
75) trans-1,4-Dichloro-2-buten	16.25	89	63959	23.78 ppb	96
76) 1,2,3-trichlorobenzene	22.52	180	144575	4.65 ppb	99
77) MTBE	5.33	73	411883	4.93 ppb	97
78) DIPE	6.14	45	1339879	4.94 ppb	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report

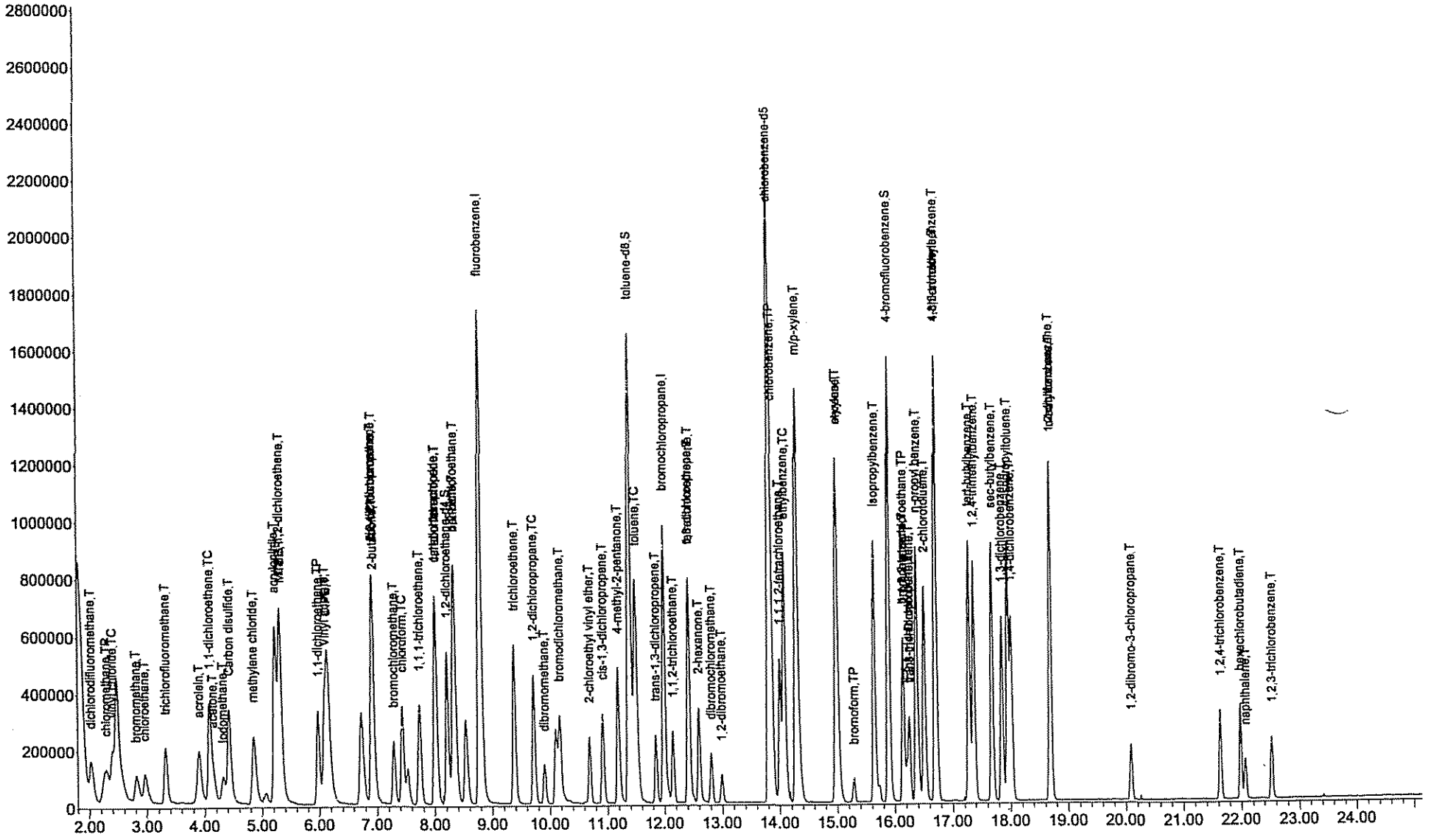
Data File : D:\HPCHEM\1\DATA\1071305\0713104.D
Acq On : 13 Jul 2005 4:03 pm
Sample : vstd5
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005

Vial: 4
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0713104.D



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713105.D Vial: 5
Acq On : 13 Jul 2005 4:35 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.79	96	3761709	10.00	ppb	0.00
39) bromochloropropane	11.99	79	338256	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2771453	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	578229	9.80	ppb	0.00
Spiked Amount 10.000			Recovery	=	98.00%	
33) toluene-d8	11.38	98	2656455	10.05	ppb	0.00
Spiked Amount 10.000			Recovery	=	100.50%	
49) 4-bromofluorobenzene	15.89	95	1168523	10.23	ppb	0.00
Spiked Amount 10.000			Recovery	=	102.30%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.03	85	793898	10.74	ppb	98
3) chloromethane	2.30	50	1223950	10.24	ppb	96
4) vinyl chloride	2.40	62	1217589	10.70	ppb	100
5) bromomethane	2.83	94	458941	11.25	ppb	97
6) chloroethane	2.96	64	577801	10.89	ppb	95
7) trichlorofluoromethane	3.33	101	792165	10.62	ppb	100
8) acrolein	3.91	56	1077141	250.04	ppb	99
9) 1,1-dichloroethene	4.10	96	594177	10.15	ppb	96
10) acetone	4.17	43	431806	51.90	ppb	100
11) methylene chloride	4.85	84	546067	9.96	ppb	98
12) trans-1,2-dichloroethene	5.32	96	731618	10.34	ppb	96
13) acrylonitrile	5.24	53	2915532	255.63	ppb	100
14) 1,1-dichloroethane	5.98	63	1470237	10.09	ppb	99
15) 2,2-dichloropropane	6.92	77	730412	9.74	ppb	97
16) cis-1,2-dichloroethene	6.92	96	700922	10.09	ppb	98
17) 2-butanone	6.95	43	625961	45.64	ppb	99
18) bromochloromethane	7.29	128	250113	10.23	ppb	97
19) chloroform	7.44	83	953512	10.07	ppb	96
20) 1,1,1-trichloroethane	7.74	97	837906	10.14	ppb	96
21) carbon tetrachloride	8.01	117	711279	10.20	ppb	97
22) 1,1-dichloropropene	8.01	75	817186	10.14	ppb	97
24) benzene	8.34	78	2459370	10.00	ppb	99
25) 1,2-dichloroethane	8.34	62	562092	10.04	ppb	100
26) trichloroethene	9.38	95	683505	10.34	ppb	98
27) 1,2-dichloropropane	9.72	63	727756	9.99	ppb	99
28) dibromomethane	9.90	93	183582	10.11	ppb	92
29) bromodichloromethane	10.18	83	533062	10.07	ppb	99
30) 2-chloroethyl vinyl ether	10.70	106	123543	16.95	ppb	94
31) cis-1,3-dichloropropene	10.92	75	633426	10.02	ppb	96
32) 4-methyl-2-pentanone	11.19	43	1287594	48.66	ppb	100
34) toluene	11.50	92	1631947	10.13	ppb	96
35) Iodomethane	4.32	142	996723	10.30	ppb	98
36) trans-1,3-dichloropropene	11.85	75	428543	9.98	ppb	99
37) Vinyl acetate	6.09	43	3127474	24.18	ppb	100
38) Carbon disulfide	4.43	76	2117527	10.11	ppb #	99
40) 1,1,2-trichloroethane	12.15	83	223285	10.21	ppb	98
41) tetrachloroethene	12.41	166	706937	10.20	ppb	97
42) 1,3-dichloropropane	12.42	76	490852	10.10	ppb	97
43) 2-hexanone	12.60	43	860947	47.78	ppb	99
44) dibromochloromethane	12.80	129	370605	10.33	ppb	97
45) 1,2-dibromoethane	12.99	107	265071	10.39	ppb	99
46) chlorobenzene	13.87	112	1645623	10.13	ppb	98
47) 1,1,1,2-tetrachloroethane	14.00	131	527214	10.12	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713105.D Vial: 5
Acq On : 13 Jul 2005 4:35 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) bromoform	15.28	173	165469	9.92 ppb	100
50) bromobenzene	16.14	156	558600	10.03 ppb	98
51) 1,1,2,2-tetrachloroethane	16.15	83	260083	10.15 ppb	97
52) 1,2,3-trichloropropane	16.25	75	433036	9.64 ppb	94
54) ethylbenzene	14.07	91	2897455	10.05 ppb	98
55) m/p-xylene	14.29	106	2288569	20.29 ppb	97
56) styrene	15.00	104	1447361	10.25 ppb	100
57) o-xylene	14.98	106	1043874	10.20 ppb	99
58) isopropylbenzene	15.64	105	2778372	10.13 ppb	99
59) n-propyl benzene	16.38	91	3225315	10.14 ppb	99
60) 2-chlorotoluene	16.50	126	674826	10.18 ppb	93
61) 4-chlorotoluene	16.70	126	688046	10.14 ppb	99
62) 1,3,5-trimethylbenzene	16.70	105	2085613	10.18 ppb	100
63) tert-butylbenzene	17.28	119	1991875	10.03 ppb	97
64) 1,2,4-trimethylbenzene	17.36	105	1974213	10.16 ppb	99
65) sec-butylbenzene	17.67	105	2747164	10.17 ppb	98
66) 1,3-dichlorobenzene	17.84	146	1201149	9.92 ppb	98
67) 4-isopropyltoluene	17.95	119	2369854	10.08 ppb	98
68) 1,4-dichlorobenzene	18.01	146	1151470	9.91 ppb	98
69) 1,2-dichlorobenzene	18.68	146	922219	10.04 ppb	97
70) n-butylbenzene	18.70	91	1766859	10.08 ppb	98
71) 1,2-dibromo-3-chloropropan	20.09	75	155640	50.18 ppb	97
72) 1,2,4-trichlorobenzene	21.63	180	423508	9.68 ppb	97
73) hexachlorobutadiene	21.98	225	245118	9.27 ppb	96
74) naphthalene	22.06	128	500710	9.61 ppb	100
75) trans-1,4-Dichloro-2-buten	16.26	89	136344	47.77 ppb	97
76) 1,2,3-trichlorobenzene	22.52	180	310012	9.98 ppb	99
77) MTBE	5.34	73	818277	9.79 ppb	98
78) DIPE	6.15	45	2682086	9.88 ppb	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

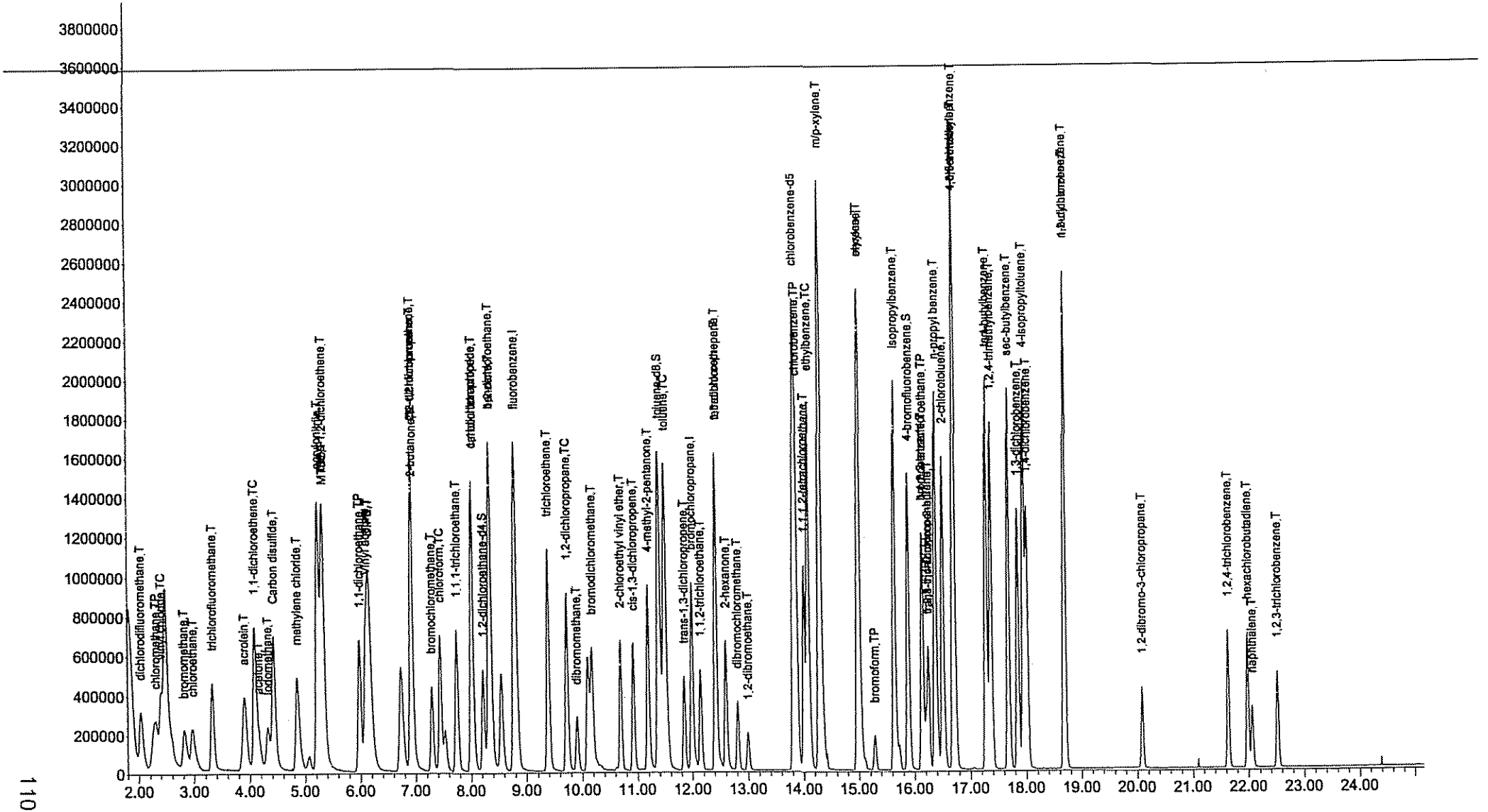
Data File : D:\HPCHEM\1\DATA\1071305\0713105.D
Acq On : 13 Jul 2005 4:35 pm
Sample : vstd10
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005

Vial: 5
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0713105.D



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713106.D Vial: 6
Acq On : 13 Jul 2005 5:06 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	3838105	10.00 ppb	0.00
39) bromochloropropane	11.99	79	348772	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2838954	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	585983	9.74 ppb	0.00
Spiked Amount 10.000			Recovery =	97.40%	
33) toluene-d8	11.38	98	2742746	10.17 ppb	0.00
Spiked Amount 10.000			Recovery =	101.70%	
49) 4-bromofluorobenzene	15.89	95	1194960	10.15 ppb	0.00
Spiked Amount 10.000			Recovery =	101.50%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.03	85	1584658	21.00 ppb	98
3) chloromethane	2.29	50	2393502	19.62 ppb	96
4) vinyl chloride	2.40	62	2434530	20.98 ppb	100
5) bromomethane	2.81	94	840409	20.20 ppb	99
6) chloroethane	2.96	64	1107176	20.46 ppb	98
7) trichlorofluoromethane	3.32	101	1539386	20.23 ppb	99
8) acrolein	3.90	56	2174931	494.82 ppb	99
9) 1,1-dichloroethene	4.08	96	1192805	19.97 ppb	98
10) acetone	4.16	43	911518	108.29 ppb	99
11) methylene chloride	4.86	84	1118095	19.98 ppb	98
12) trans-1,2-dichloroethene	5.31	96	1469120	20.35 ppb	99
13) acrylonitrile	5.23	53	5958937	512.08 ppb	99
14) 1,1-dichloroethane	5.98	63	2997686	20.17 ppb	100
15) 2,2-dichloropropane	6.92	77	1491394	19.49 ppb	100
16) cis-1,2-dichloroethene	6.91	96	1436240	20.27 ppb	96
17) 2-butanone	6.94	43	1328478	94.93 ppb	99
18) bromochloromethane	7.29	128	510048	20.45 ppb	93
19) chloroform	7.43	83	1928604	19.97 ppb	97
20) 1,1,1-trichloroethane	7.74	97	1680860	19.94 ppb	100
21) carbon tetrachloride	8.01	117	1446310	20.33 ppb	98
22) 1,1-dichloropropene	8.01	75	1657776	20.15 ppb	99
24) benzene	8.33	78	4980293	19.85 ppb	100
25) 1,2-dichloroethane	8.34	62	1138066	19.92 ppb	98
26) trichloroethene	9.38	95	1376719	20.41 ppb	99
27) 1,2-dichloropropane	9.73	63	1490450	20.05 ppb	99
28) dibromomethane	9.90	93	380574	20.54 ppb	97
29) bromodichloromethane	10.18	83	1092699	20.23 ppb	98
30) 2-chloroethyl vinyl ether	10.70	106	377944	37.76 ppb	98
31) cis-1,3-dichloropropene	10.93	75	1319637	20.47 ppb	99
32) 4-methyl-2-pentanone	11.19	43	2703508	100.14 ppb	100
34) toluene	11.49	92	3327549	20.25 ppb	99
35) Iodomethane	4.31	142	2072074	20.12 ppb	99
36) trans-1,3-dichloropropene	11.85	75	899220	20.51 ppb	98
37) Vinyl acetate	6.09	43	6119118	46.36 ppb	100
38) Carbon disulfide	4.42	76	4313979	20.19 ppb	100
40) 1,1,2-trichloroethane	12.15	83	465179	20.83 ppb	97
41) tetrachloroethene	12.41	166	1454057	20.36 ppb	98
42) 1,3-dichloropropane	12.43	76	1021080	20.38 ppb	99
43) 2-hexanone	12.60	43	1896113	102.06 ppb	99
44) dibromochloromethane	12.81	129	763363	20.64 ppb	95
45) 1,2-dibromoethane	12.99	107	542516	20.62 ppb	99
46) chlorobenzene	13.87	112	3396123	20.27 ppb	99
47) 1,1,1,2-tetrachloroethane	14.01	131	1085061	20.20 ppb	99

(#) = qualifier out of range (m) = manual integration
0713106.D 6210D.M Thu Jul 28 15:15:28 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713106.D Vial: 6
Acq On : 13 Jul 2005 5:06 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) bromoform	15.29	173	351425	20.61 ppb	100
50) bromobenzene	16.14	156	1169653	20.36 ppb	99
51) 1,1,2,2-tetrachloroethane	16.15	83	534745	20.24 ppb	99
52) 1,2,3-trichloropropane	16.25	75	951404	20.32 ppb	99
54) ethylbenzene	14.08	91	5985513	20.28 ppb	99
55) m/p-xylene	14.29	106	4697242	40.66 ppb	99
56) styrene	15.00	104	3018142	20.87 ppb	100
57) o-xylene	14.98	106	2177969	20.77 ppb	99
58) isopropylbenzene	15.64	105	5813513	20.68 ppb	99
59) n-propyl benzene	16.38	91	6688469	20.53 ppb	99
60) 2-chlorotoluene	16.51	126	1390665	20.49 ppb	93
61) 4-chlorotoluene	16.70	126	1423494	20.48 ppb	97
62) 1,3,5-trimethylbenzene	16.70	105	4358831	20.77 ppb	100
63) tert-butylbenzene	17.28	119	4116811	20.23 ppb	99
64) 1,2,4-trimethylbenzene	17.37	105	4150869	20.86 ppb	100
65) sec-butylbenzene	17.68	105	5764431	20.84 ppb	98
66) 1,3-dichlorobenzene	17.85	146	2495825	20.12 ppb	99
67) 4-isopropyltoluene	17.95	119	5014149	20.82 ppb	98
68) 1,4-dichlorobenzene	18.01	146	2399509	20.17 ppb	99
69) 1,2-dichlorobenzene	18.68	146	1916349	20.37 ppb	99
70) n-butylbenzene	18.70	91	3750683	20.90 ppb	97
71) 1,2-dibromo-3-chloropropan	20.09	75	323546	103.41 ppb	99
72) 1,2,4-trichlorobenzene	21.63	180	929483	20.74 ppb	99
73) hexachlorobutadiene	21.99	225	532672	19.66 ppb	100
74) naphthalene	22.06	128	1115011	20.88 ppb	100
75) trans-1,4-Dichloro-2-buten	16.26	89	294716	97.92 ppb	92
76) 1,2,3-trichlorobenzene	22.52	180	665424	20.91 ppb	99
77) MTBE	5.33	73	1700273	19.86 ppb	98
78) DIPE	6.15	45	5522744	19.87 ppb	100

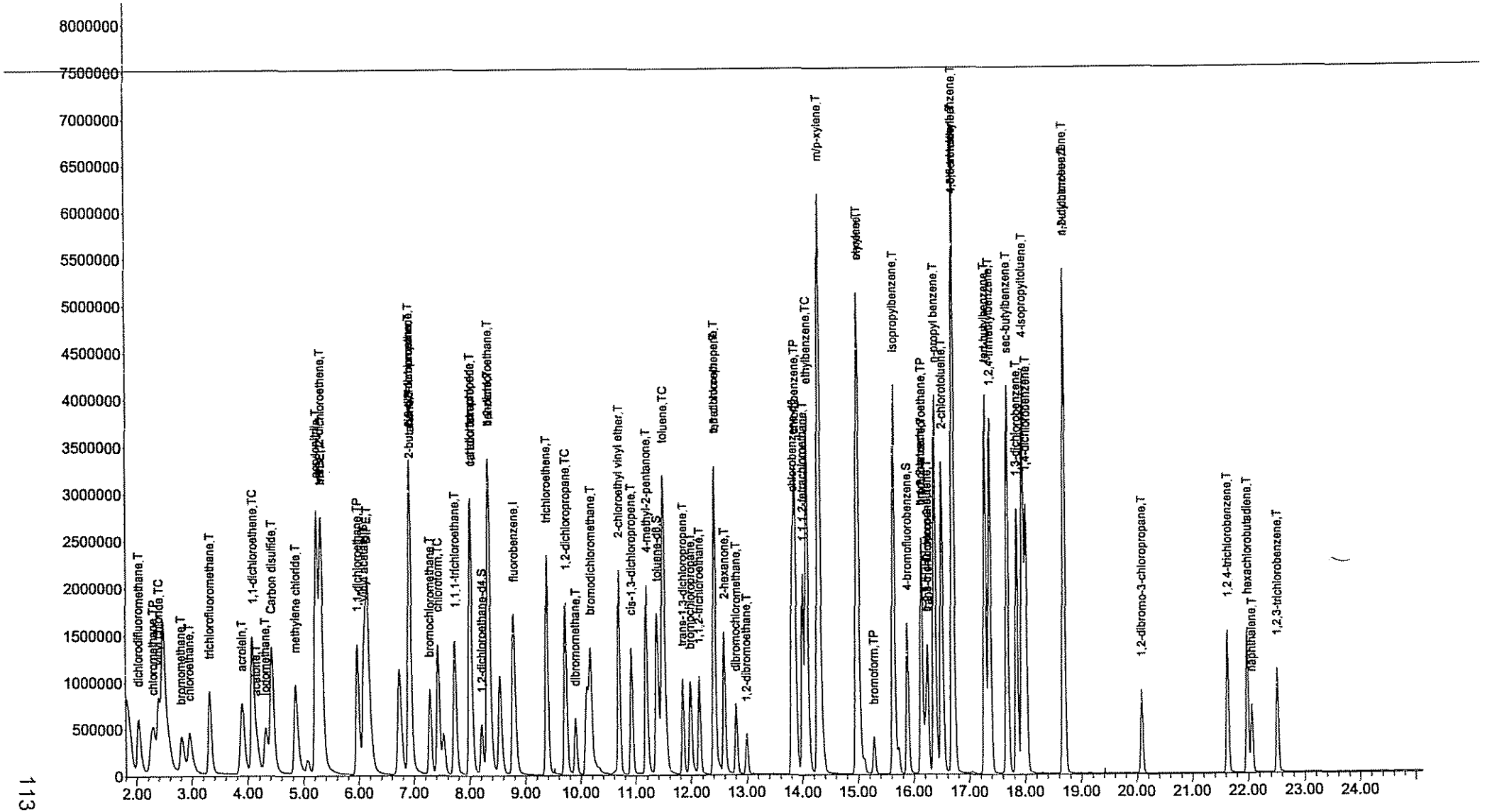
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1071305\0713106.D Vial: 6
Acq On : 13 Jul 2005 5:06 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0713106.D



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713107.D Vial: 7
Acq On : 13 Jul 2005 5:37 pm Operator: JTF
Sample : vstd50 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	4035719	10.00 ppb	0.00
39) bromochloropropane	11.99	79	369526	10.00 ppb	0.00
53) chlorobenzene-d5	13.81	117	2974165	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	604153	9.55 ppb	0.00
Spiked Amount 10.000			Recovery	= 95.50%	
33) toluene-d8	11.38	98	2840347	10.01 ppb	0.00
Spiked Amount 10.000			Recovery	= 100.10%	
49) 4-bromofluorobenzene	15.89	95	1258187	10.09 ppb	0.00
Spiked Amount 10.000			Recovery	= 100.90%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.03	85	4066452	51.26 ppb	100
3) chloromethane	2.30	50	6311957	49.21 ppb	100
4) vinyl chloride	2.40	62	6386017	52.33 ppb	100
5) bromomethane	2.81	94	1853709	42.37 ppb	100
6) chloroethane	2.94	64	2262035	39.75 ppb	100
7) trichlorofluoromethane	3.31	101	3911535	48.88 ppb	100
8) acrolein	3.90	56	5690341	1231.22 ppb	100
9) 1,1-dichloroethene	4.08	96	3062726	48.77 ppb	100
10) acetone	4.16	43	2268685	257.47 ppb	100
11) methylene chloride	4.85	84	2819970	47.92 ppb	100
12) trans-1,2-dichloroethene	5.31	96	3691039	48.62 ppb	100
13) acrylonitrile	5.23	53	15858930	1296.10 ppb	100
14) 1,1-dichloroethane	5.97	63	7632982	48.84 ppb	100
15) 2,2-dichloropropane	6.93	77	3596962	44.70 ppb	100
16) cis-1,2-dichloroethene	6.92	96	3649179	48.99 ppb	100
17) 2-butanone	6.95	43	3284595	223.22 ppb	100
18) bromochloromethane	7.29	128	1324039	50.50 ppb	100
19) chloroform	7.44	83	4877094	48.02 ppb	100
20) 1,1,1-trichloroethane	7.74	97	4199773	47.37 ppb	100
21) carbon tetrachloride	8.01	117	3563993	47.64 ppb	100
22) 1,1-dichloropropene	8.02	75	4174514	48.26 ppb	100
24) benzene	8.34	78	12764467	48.39 ppb	100
25) 1,2-dichloroethane	8.34	62	2822700	47.00 ppb	100
26) trichloroethene	9.39	95	3457832	48.76 ppb	100
27) 1,2-dichloropropane	9.73	63	3787489	48.46 ppb	100
28) dibromomethane	9.91	93	972078	49.90 ppb	100
29) bromodichloromethane	10.18	83	2708999	47.71 ppb	100
30) 2-chloroethyl vinyl ether	10.69	106	1528811	126.67 ppb	100
31) cis-1,3-dichloropropene	10.92	75	3382084	49.89 ppb	100
32) 4-methyl-2-pentanone	11.19	43	6973650	245.65 ppb	100
34) toluene	11.49	92	8554295	49.51 ppb	100
35) Iodomethane	4.32	142	5554023	49.98 ppb	100
36) trans-1,3-dichloropropene	11.86	75	2264057	49.12 ppb	100
37) Vinyl acetate	6.09	43	16640186	119.89 ppb	100
38) Carbon disulfide	4.43	76	10894260	48.48 ppb	100
40) 1,1,2-trichloroethane	12.15	83	1175551	49.96 ppb	100
41) tetrachloroethene	12.42	166	3560949	47.05 ppb	100
42) 1,3-dichloropropane	12.43	76	2561567	48.25 ppb	100
43) 2-hexanone	12.59	43	4836252	245.69 ppb	100
44) dibromochloromethane	12.81	129	1927422	49.18 ppb	100
45) 1,2-dibromoethane	13.00	107	1394727	50.04 ppb	100
46) chlorobenzene	13.86	112	8548994	48.15 ppb	100
47) 1,1,1,2-tetrachloroethane	14.01	131	2716534	47.73 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1071305\0713107.D Vial: 7
Acq On : 13 Jul 2005 5:37 pm Operator: JTF
Sample : vstd50 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	bromoform	15.29	173	895406	49.79 ppb	100
50)	bromobenzene	16.15	156	2920309	47.97 ppb	100
51)	1,1,2,2-tetrachloroethane	16.16	83	1349011	48.18 ppb	100
52)	1,2,3-trichloropropane	16.25	75	2492929	49.97 ppb	100
54)	ethylbenzene	14.08	91	15524191	50.20 ppb	100
55)	m/p-xylene	14.30	106	11908876	98.40 ppb	100
56)	styrene	14.99	104	7686485	50.73 ppb	100
57)	o-xylene	14.97	106	5439747	49.51 ppb	100
58)	isopropylbenzene	15.64	105	14829355	50.36 ppb	100
59)	n-propyl benzene	16.38	91	17175707	50.33 ppb	100
60)	2-chlorotoluene	16.51	126	3412337	47.98 ppb	98
61)	4-chlorotoluene	16.71	126	3490221	47.94 ppb	100
62)	1,3,5-trimethylbenzene	16.71	105	10844347	49.34 ppb	100
63)	tert-butylbenzene	17.29	119	10315167	48.39 ppb	100
64)	1,2,4-trimethylbenzene	17.37	105	10560219	50.66 ppb	100
65)	sec-butylbenzene	17.68	105	14729845	50.83 ppb	100
66)	1,3-dichlorobenzene	17.86	146	6250210	48.09 ppb	100
67)	4-isopropyltoluene	17.96	119	12669347	50.22 ppb	100
68)	1,4-dichlorobenzene	18.01	146	6011411	48.23 ppb	100
69)	1,2-dichlorobenzene	18.67	146	4709009	47.79 ppb	100
70)	n-butylbenzene	18.69	91	9519243	50.63 ppb	100
71)	1,2-dibromo-3-chloropropan	20.09	75	808210	248.71 ppb	100
72)	1,2,4-trichlorobenzene	21.64	180	2295430	48.89 ppb	100
73)	hexachlorobutadiene	21.99	225	1311759	46.21 ppb	100
74)	naphthalene	22.07	128	2738331	48.95 ppb	100
75)	trans-1,4-Dichloro-2-buten	16.25	89	804857	251.10 ppb	100
76)	1,2,3-trichlorobenzene	22.52	180	1621262	48.62 ppb	100
77)	MTBE	5.33	73	4393502	48.98 ppb	100
78)	DIPE	6.16	45	14238452	48.89 ppb	100

(#) = qualifier out of range (m) = manual integration

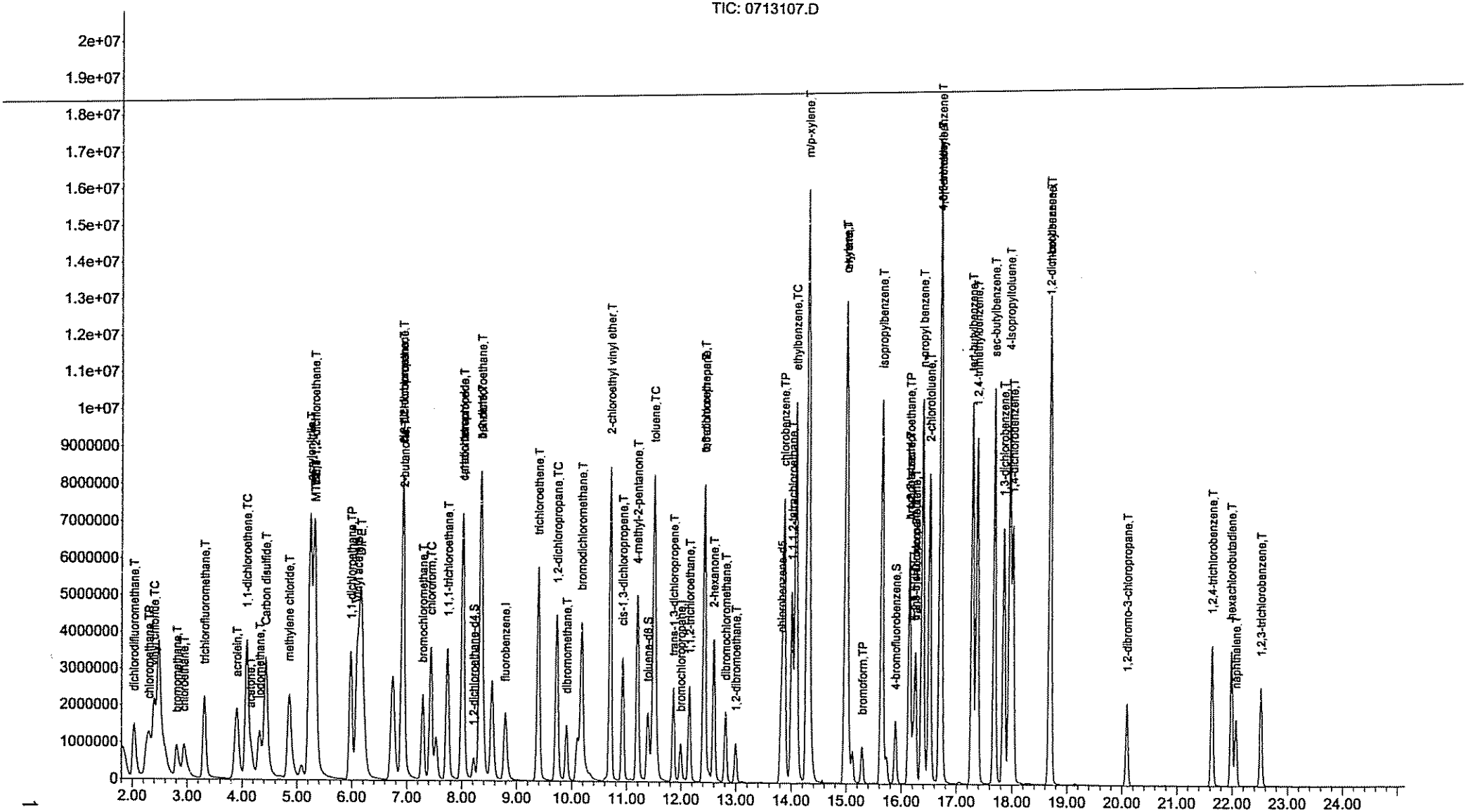
Data File : D:\HPCHEM\1\DATA\1071305\0713107.D
Acq On : 13 Jul 2005 5:37 pm
Sample : vstd50
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 13 18:07 2005

Vial: 7
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1071305\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0713107.D



0713107.D 6210D.M Thu Jul 28 15:15:40 2005

6210d CVS Raw Data

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\1072605\0726103.D Vial: 3
Acq On : 26 Jul 2005 8:36 am Operator: JTF
Sample : qchk005 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	83	0.00
2	T	dichlorodifluoromethane	0.197	0.165	16.2	75	0.00
3	TP	chloromethane	0.318	0.315	0.9	88	-0.01
4	TC	vinyl chloride	0.302	0.296	2.0	86	0.00
5	T	bromomethane	0.108	0.131	-21.3	95	0.00
6	T	chloroethane	0.141	0.149	-5.7	88	0.02
7	T	trichlorofluoromethane	0.198	0.173	12.6	77	0.00
8	T	acrolein	0.011	0.010	9.1	74	0.00
9	TC	1,1-dichloroethene	0.156	0.145	7.1	78	0.02
10	T	acetone	0.026	0.020	23.1	66	0.00
11	T	methylene chloride	0.146	0.139	4.8	80	0.02
12	T	trans-1,2-dichloroethene	0.188	0.182	3.2	80	0.00
13	T	acrylonitrile	0.030	0.027	10.0	81	0.00
14	TP	1,1-dichloroethane	0.387	0.360	7.0	79	0.02
15	T	2,2-dichloropropane	0.199	0.183	8.0	74	0.00
16	T	cis-1,2-dichloroethene	0.185	0.175	5.4	79	0.00
17	T	2-butanone	0.036	0.031	13.9	74	0.00
18	T	bromochloromethane	0.065	0.060	7.7	75	0.00
19	TC	chloroform	0.252	0.222	11.9	74	0.00
20	T	1,1,1-trichloroethane	0.220	0.183	16.8	70	0.00
21	T	carbon tetrachloride	0.185	0.150	18.9	67	0.00
22	T	1,1-dichloropropene	0.214	0.199	7.0	77	0.00
23	S	1,2-dichloroethane-d4	0.157	0.134	14.6	68	0.00
24	T	benzene	0.654	0.627	4.1	81	0.00
25	T	1,2-dichloroethane	0.149	0.119	20.1	66	0.00
26	T	trichloroethene	0.176	0.162	8.0	78	0.00
27	TC	1,2-dichloropropane	0.194	0.180	7.2	78	0.00
28	T	dibromomethane	0.048	0.044	8.3	74	0.00
29	T	bromodichloromethane	0.141	0.118	16.3	70	0.00
30	T	2-chloroethyl vinyl ether	0.014	0.013	7.1	119	0.00
31	T	cis-1,3-dichloropropene	0.168	0.158	6.0	79	0.00
32	T	4-methyl-2-pentanone	0.070	0.061	12.9	77	0.00
33	S	toluene-d8	0.703	0.697	0.9	82	0.00
34	TC	toluene	0.428	0.408	4.7	80	0.00
35	T	Iodomethane	0.203	0.220	-8.4	101	0.00
36	T	trans-1,3-dichloropropene	0.114	0.100	12.3	75	0.00
37	T	Vinyl acetate	0.344	0.297	13.7	72	0.00
38	T	Carbon disulfide	0.557	0.534	4.1	80	0.00
39	I	bromochloropropane	1.000	1.000	0.0	82	0.00
40	T	1,1,2-trichloroethane	0.641	0.639	0.3	80	0.00
41	T	tetrachloroethene	2.048	1.842	10.1	75	0.00
42	T	1,3-dichloropropane	1.437	1.353	5.8	76	0.00
43	T	2-hexanone	0.533	0.471	11.6	76	0.00
44	T	dibromochloromethane	1.060	0.853	19.5	66	0.00
45	T	1,2-dibromoethane	0.754	0.717	4.9	76	0.00
46	TP	chlorobenzene	4.805	4.487	6.6	78	0.00
47	T	1,1,1,2-tetrachloroethane	1.540	1.339	13.1	72	0.00
48	TP	bromoform	0.477	0.327	31.4#	56	0.00
49	S	4-bromofluorobenzene	3.376	3.248	3.8	79	0.00
50	T	bromobenzene	1.647	1.501	8.9	76	0.00
51	TP	1,1,2,2-tetrachloroethane	0.758	0.722	4.7	80	0.00
52	T	1,2,3-trichloropropane	1.216	0.861	29.2#	56	-0.03
53		chlorobenzene-d5	1.000	1.000	0.0	79	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\1072605\0726103.D Vial: 3
Acq On : 26 Jul 2005 8:36 am Operator: JTF
Sample : qchk005 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	TC	ethylbenzene	1.040	1.024	1.5	80	0.00
55	T	m/p-xylene	0.407	0.398	2.2	79	0.00
56	T	styrene	0.509	0.499	2.0	79	0.00
57	T	o-xylene	0.369	0.369	0.0	80	0.00
58	T	isopropylbenzene	0.990	0.932	5.9	77	0.00
59	T	n-propyl benzene	1.147	1.136	1.0	82	0.00
60	T	2-chlorotoluene	0.239	0.227	5.0	75	0.00
61	T	4-chlorotoluene	0.245	0.233	4.9	76	0.00
62	T	1,3,5-trimethylbenzene	0.739	0.722	2.3	79	0.00
63	T	tert-butylbenzene	0.717	0.667	7.0	77	0.00
64	T	1,2,4-trimethylbenzene	0.701	0.683	2.6	80	0.00
65	T	sec-butylbenzene	0.974	0.958	1.6	81	0.00
66	T	1,3-dichlorobenzene	0.437	0.415	5.0	78	0.00
67	T	4-isopropyltoluene	0.848	0.808	4.7	79	0.00
68	T	1,4-dichlorobenzene	0.419	0.401	4.3	79	0.00
69	T	1,2-dichlorobenzene	0.331	0.310	6.3	76	0.00
70	T	n-butylbenzene	0.632	0.628	0.6	84	0.00
71	T	1,2-dibromo-3-chloropropane	0.011	0.009	18.2	65	0.00
72	T	1,2,4-trichlorobenzene	0.158	0.147	7.0	79	0.00
73	T	hexachlorobutadiene	0.095	0.083	12.6	76	0.00
74	T	naphthalene	0.188	0.189	-0.5	89	0.00
75	T	trans-1,4-Dichloro-2-butene	0.010	0.005	50.0#	40#	0.00
76	T	1,2,3-trichlorobenzene	0.112	0.111	0.9	84	0.00
77	T	MTBE	0.302	0.287	5.0	76	0.00
78	T	DIPE	0.979	0.908	7.3	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726103.D Vial: 3
Acq On : 26 Jul 2005 8:36 am Operator: JTF
Sample : qchk005 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:02 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.79	96	3131538	10.00	ppb	0.00
39) bromochloropropane	12.00	79	279185	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2186482	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	419074	8.54	ppb	0.00
Spiked Amount 10.000			Recovery	=	85.40%	
33) toluene-d8	11.39	98	2182617	9.92	ppb	0.00
Spiked Amount 10.000			Recovery	=	99.20%	
49) 4-bromofluorobenzene	15.89	95	906814	9.62	ppb	0.00
Spiked Amount 10.000			Recovery	=	96.20%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	2.03	85	257809	4.19	ppb		100
3) chloromethane	2.29	50	493654	4.96	ppb		98
4) vinyl chloride	2.40	62	463912	4.90	ppb		99
5) bromomethane	2.82	94	204540	6.03	ppb		99
6) chloroethane	2.97	64	232916	5.28	ppb		99
7) trichlorofluoromethane	3.32	101	271599	4.37	ppb		95
8) acrolein	3.90	56	379011	105.68	ppb		100
9) 1,1-dichloroethene	4.10	96	226443	4.65	ppb		92
10) acetone	4.17	43	160417	22.70	ppb		99
11) methylene chloride	4.86	84	217247	4.76	ppb	#	88
12) trans-1,2-dichloroethene	5.32	96	284733	4.83	ppb		91
13) acrylonitrile	5.24	53	1072628	112.97	ppb		100
14) 1,1-dichloroethane	5.99	63	563055	4.64	ppb		99
15) 2,2-dichloropropane	6.92	77	286028	4.58	ppb		99
16) cis-1,2-dichloroethene	6.92	96	273977	4.74	ppb		91
17) 2-butanone	6.95	43	243702	21.34	ppb		99
18) bromochloromethane	7.29	128	93231	4.58	ppb		93
19) chloroform	7.44	83	348093	4.42	ppb		100
20) 1,1,1-trichloroethane	7.74	97	286748	4.17	ppb		97
21) carbon tetrachloride	8.01	117	234543	4.04	ppb		99
22) 1,1-dichloropropene	8.01	75	310929	4.63	ppb		98
24) benzene	8.34	78	982139	4.80	ppb		97
25) 1,2-dichloroethane	8.34	62	187059	4.01	ppb		98
26) trichloroethene	9.38	95	253339	4.60	ppb		92
27) 1,2-dichloropropane	9.73	63	281915	4.65	ppb		93
28) dibromomethane	9.91	93	68905	4.56	ppb		98
29) bromodichloromethane	10.18	83	185099	4.20	ppb		97
30) 2-chloroethyl vinyl ether	10.70	106	49102	11.51	ppb		96
31) cis-1,3-dichloropropene	10.93	75	248101	4.72	ppb		93
32) 4-methyl-2-pentanone	11.19	43	480147	21.80	ppb		98
34) toluene	11.50	92	638596	4.76	ppb		97
35) Iodomethane	4.32	142	344470	4.77	ppb		97
36) trans-1,3-dichloropropene	11.85	75	155821	4.36	ppb		96
37) Vinyl acetate	6.09	43	1162296	10.79	ppb		98
38) Carbon disulfide	4.43	76	835363	4.79	ppb		99
40) 1,1,2-trichloroethane	12.16	83	89268	4.84	ppb		95
41) tetrachloroethene	12.42	166	257138	4.50	ppb		100
42) 1,3-dichloropropane	12.43	76	188918	4.71	ppb		98
43) 2-hexanone	12.60	43	328477	22.09	ppb		99
44) dibromochloromethane	12.81	129	119104	4.02	ppb		97
45) 1,2-dibromoethane	13.00	107	100101	4.75	ppb		99
46) chlorobenzene	13.87	112	626388	4.67	ppb		98
47) 1,1,1,2-tetrachloroethane	14.01	131	186898	4.35	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726103.D Vial: 3
Acq On : 26 Jul 2005 8:36 am Operator: JTF
Sample : qchk005 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:02 2005 Quant Results File: 6210D.RES

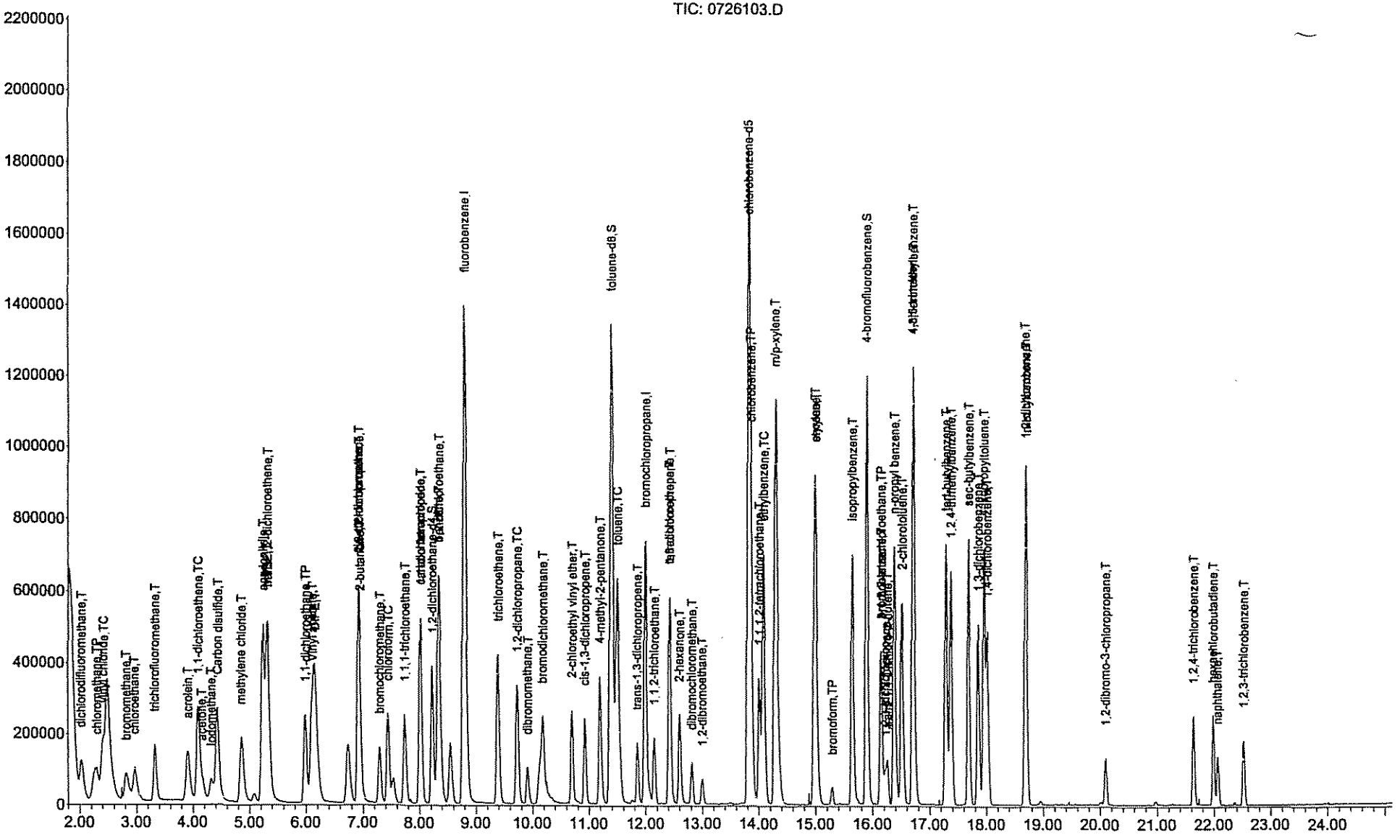
Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48)	bromoform	15.29	173	45579	3.20 ppb	94
50)	bromobenzene	16.15	156	209589	4.56 ppb	97
51)	1,1,2,2-tetrachloroethane	16.15	83	100727	4.76 ppb	95
52)	1,2,3-trichloropropane	16.22	75	120258	3.37 ppb	88
54)	ethylbenzene	14.08	91	1119482	4.92 ppb	99
55)	m/p-xylene	14.29	106	870785	9.79 ppb	98
56)	styrene	15.00	104	544992	4.89 ppb	100
57)	o-xylene	14.98	106	403492	5.00 ppb	98
58)	isopropylbenzene	15.64	105	1018486	4.70 ppb	98
59)	n-propyl benzene	16.38	91	1242367	4.95 ppb	99
60)	2-chlorotoluene	16.50	126	248562	4.75 ppb	96
61)	4-chlorotoluene	16.70	126	254211	4.75 ppb	98
62)	1,3,5-trimethylbenzene	16.70	105	789450	4.89 ppb	99
63)	tert-butylbenzene	17.28	119	729445	4.65 ppb	99
64)	1,2,4-trimethylbenzene	17.37	105	747196	4.88 ppb	100
65)	sec-butylbenzene	17.69	105	1047584	4.92 ppb	97
66)	1,3-dichlorobenzene	17.85	146	453664	4.75 ppb	98
67)	4-isopropyltoluene	17.95	119	883668	4.76 ppb	98
68)	1,4-dichlorobenzene	18.02	146	438702	4.79 ppb	99
69)	1,2-dichlorobenzene	18.68	146	338837	4.68 ppb	99
70)	n-butylbenzene	18.70	91	686851	4.97 ppb	99
71)	1,2-dibromo-3-chloropropan	20.10	75	48993	19.10 ppb	97
72)	1,2,4-trichlorobenzene	21.64	180	160937	4.66 ppb	96
73)	hexachlorobutadiene	21.99	225	90441	4.33 ppb	100
74)	naphthalene	22.06	128	206725	5.03 ppb	100
75)	trans-1,4-Dichloro-2-buten	16.26	89	25359	13.24 ppb	98
76)	1,2,3-trichlorobenzene	22.53	180	121014	4.94 ppb	95
77)	MTBE	5.33	73	313247	4.75 ppb	99
78)	DIPE	6.15	45	993151	4.64 ppb	89

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\1072605\0726103.D Vial: 3
Acq On : 26 Jul 2005 8:36 am Operator: JTF
Sample : qchk005 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:02 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



6210d QC, Blanks Raw Data

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726102.D Vial: 2
Acq On : 26 Jul 2005 8:05 am Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:30 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	3303635	10.00 ppb	0.00
39) bromochloropropane	12.00	79	300210	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2313540	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	460296	8.89 ppb	0.00
Spiked Amount 10.000			Recovery	= 88.90%	
33) toluene-d8	11.39	98	2295289	9.89 ppb	0.00
Spiked Amount 10.000			Recovery	= 98.90%	
49) 4-bromofluorobenzene	15.89	95	962953	9.50 ppb	0.00
Spiked Amount 10.000			Recovery	= 95.00%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.02	85	513354	7.91 ppb	96
3) chloromethane	2.27	50	956315	9.11 ppb	97
4) vinyl chloride	2.39	62	890131	8.91 ppb	100
5) bromomethane	2.81	94	363129	10.14 ppb	97
6) chloroethane	2.96	64	445419	9.56 ppb	96
7) trichlorofluoromethane	3.32	101	541549	8.27 ppb	97
8) acrolein	3.91	56	750905	198.48 ppb	100
9) 1,1-dichloroethene	4.09	96	483152	9.40 ppb	92
10) acetone	4.16	43	337786	46.14 ppb	100
11) methylene chloride	4.85	84	459661	9.54 ppb	91
12) trans-1,2-dichloroethene	5.31	96	605541	9.74 ppb	94
13) acrylonitrile	5.23	53	2136802	213.33 ppb	99
14) 1,1-dichloroethane	5.98	63	1172691	9.17 ppb	98
15) 2,2-dichloropropane	6.92	77	613040	9.31 ppb	99
16) cis-1,2-dichloroethene	6.92	96	586831	9.62 ppb	91
17) 2-butanone	6.95	43	502959	41.76 ppb	98
18) bromochloromethane	7.29	128	202083	9.41 ppb	96
19) chloroform	7.44	83	730092	8.78 ppb	99
20) 1,1,1-trichloroethane	7.74	97	615511	8.48 ppb	98
21) carbon tetrachloride	8.01	117	498562	8.14 ppb	96
22) 1,1-dichloropropene	8.01	75	665216	9.39 ppb	98
24) benzene	8.34	78	2058040	9.53 ppb	99
25) 1,2-dichloroethane	8.34	62	400691	8.15 ppb	99
26) trichloroethene	9.38	95	538094	9.27 ppb	100
27) 1,2-dichloropropane	9.72	63	599376	9.37 ppb	96
28) dibromomethane	9.90	93	150608	9.44 ppb	92
29) bromodichloromethane	10.18	83	398204	8.57 ppb	98
30) 2-chloroethyl vinyl ether	10.69	106	138970	19.88 ppb	96
31) cis-1,3-dichloropropene	10.92	75	517264	9.32 ppb	99
32) 4-methyl-2-pentanone	11.19	43	1011983	43.55 ppb	98
34) toluene	11.50	92	1321715	9.34 ppb	96
35) Iodomethane	4.31	142	661495	7.99 ppb	95
36) trans-1,3-dichloropropene	11.85	75	332674	8.82 ppb	99
37) Vinyl acetate	6.09	43	2486777	21.89 ppb	98
38) Carbon disulfide	4.42	76	1750426	9.52 ppb	100
40) 1,1,2-trichloroethane	12.15	83	182039	9.36 ppb	93
41) tetrachloroethene	12.42	166	541137	8.80 ppb	98
42) 1,3-dichloropropane	12.43	76	397709	9.22 ppb	99
43) 2-hexanone	12.60	43	676382	42.29 ppb	99
44) dibromochloromethane	12.81	129	256856	8.07 ppb	97
45) 1,2-dibromoethane	12.99	107	209587	9.25 ppb	96
46) chlorobenzene	13.87	112	1287953	8.93 ppb	99
47) 1,1,1,2-tetrachloroethane	14.00	131	388872	8.41 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726102.D Vial: 2
Acq On : 26 Jul 2005 8:05 am Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:30 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) bromoform	15.29	173	97529	6.54 ppb	92
50) bromobenzene	16.15	156	430654	8.71 ppb	99
51) 1,1,2,2-tetrachloroethane	16.15	83	209203	9.20 ppb	98
52) 1,2,3-trichloropropane	16.22	75	245913	6.24 ppb	81
54) ethylbenzene	14.08	91	2332479	9.70 ppb	99
55) m/p-xylene	14.29	106	1802499	19.15 ppb	98
56) styrene	15.00	104	1142836	9.70 ppb	100
57) o-xylene	14.98	106	821102	9.61 ppb	99
58) isopropylbenzene	15.65	105	2143007	9.36 ppb	99
59) n-propyl benzene	16.38	91	2562292	9.65 ppb	100
60) 2-chlorotoluene	16.51	126	506184	9.15 ppb	99
61) 4-chlorotoluene	16.70	126	526264	9.29 ppb	100
62) 1,3,5-trimethylbenzene	16.70	105	1624467	9.50 ppb	100
63) tert-butylbenzene	17.28	119	1489007	8.98 ppb	98
64) 1,2,4-trimethylbenzene	17.37	105	1545881	9.53 ppb	100
65) sec-butylbenzene	17.68	105	2157447	9.57 ppb	95
66) 1,3-dichlorobenzene	17.85	146	925357	9.15 ppb	98
67) 4-isopropyltoluene	17.95	119	1834533	9.35 ppb	97
68) 1,4-dichlorobenzene	18.02	146	896291	9.24 ppb	99
69) 1,2-dichlorobenzene	18.68	146	709819	9.26 ppb	98
70) n-butylbenzene	18.70	91	1455232	9.95 ppb	99
71) 1,2-dibromo-3-chloropropan	20.09	75	97249	37.17 ppb	95
72) 1,2,4-trichlorobenzene	21.64	180	316485	8.67 ppb	98
73) hexachlorobutadiene	21.98	225	194279	8.80 ppb	97
74) naphthalene	22.06	128	374648	8.61 ppb	100
75) trans-1,4-Dichloro-2-buten	16.26	89	53531	23.84 ppb	98
76) 1,2,3-trichlorobenzene	22.53	180	203775	7.86 ppb	97
77) MTBE	5.34	73	664839	9.53 ppb	98
78) DIPE	6.15	45	2080280	9.18 ppb	95

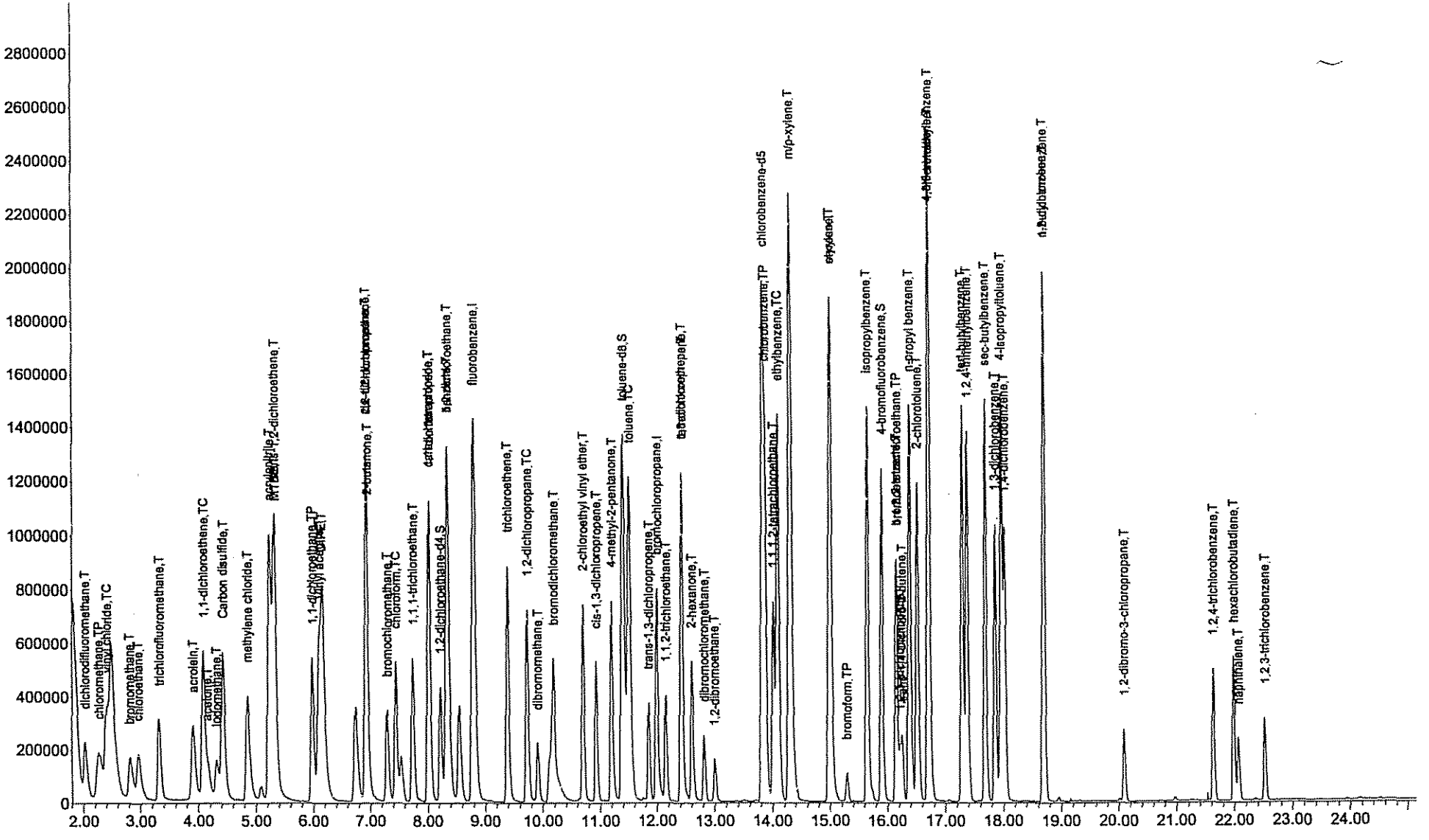
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726102.D Vial: 2
Acq On : 26 Jul 2005 8:05 am Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 8:30 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0726102.D



Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS1072605A
Sample wt/vol: 5.00 (mL) Lab File ID: 0726104.D
Level: (low/med) NA
% Moisture: not dec. NA Date Analyzed: 2005-07-26 09:08
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	25.0	24.3	97.3	41.1-159
107-02-8	acrolein	125	107	85.6	NA-214
107-13-1	acrylonitrile	125	117	93.6	60.4-140
71-43-2	benzene	5.00	5.09	102	77.4-123
108-86-1	bromobenzene	5.00	4.71	94.2	60.2-140
74-97-5	bromochloromethane	5.00	4.79	95.8	69.2-131
75-27-4	bromodichloromethane	5.00	4.51	90.2	73.8-126
75-25-2	bromoform	5.00	3.27	65.4	57.3-143
74-83-9	bromomethane	5.00	6.03	120	33.0-167
78-93-3	2-butanone	25.0	22.4	89.6	50.5-150
104-51-8	n-butylbenzene	5.00	5.12	102	71.3-129
135-98-8	sec-butylbenzene	5.00	5.00	100	72.2-128
98-06-6	tert-butylbenzene	5.00	4.78	95.6	75.0-125
75-15-0	Carbon disulfide	5.00	4.99	99.8	68.3-132
56-23-5	carbon tetrachloride	5.00	4.26	85.2	76.8-123
108-90-7	chlorobenzene	5.00	4.79	95.8	72.5-128
75-00-3	chloroethane	5.00	5.31	106	72.6-127
110-75-8	2-chloroethyl vinyl ether	12.5	12.4	99.4	6.49-194
67-66-3	chloroform	5.00	4.71	94.2	73.5-126
74-87-3	chloromethane	5.00	5.06	101	50.7-149
95-49-8	2-chlorotoluene	5.00	4.91	98.2	77.7-122
106-43-4	4-chlorotoluene	5.00	5.01	100	75.2-125
124-48-1	dibromochloromethane	5.00	4.14	82.8	65.0-135
96-12-8	1,2-dibromo-3-chloropropane	25.0	19.6	78.6	60.8-139
106-93-4	1,2-dibromomethane	5.00	4.87	97.4	69.7-130
74-95-3	dibromomethane	5.00	5.05	101	76.0-124
95-50-1	1,2-dichlorobenzene	5.00	5.00	100	73.0-127
541-73-1	1,3-dichlorobenzene	5.00	4.84	96.8	71.3-129
106-46-7	1,4-dichlorobenzene	5.00	4.91	98.2	72.2-128
110-57-6	trans-1,4-Dichloro-2-butene	25.0	14.2	57.0	48.0-152
75-71-8	dichlorodifluoromethane	5.00	4.36	87.2	80.7-119
75-34-3	1,1-dichloroethane	5.00	4.81	96.2	69.4-130
107-06-2	1,2-dichloroethane	5.00	4.35	87.0	67.4-133
75-35-4	1,1-dichloroethene	5.00	4.96	99.2	71.7-128
156-59-2	cis-1,2-dichloroethene	5.00	4.96	99.2	76.4-124
156-60-5	trans-1,2-dichloroethene	5.00	5.05	101	73.9-126
78-87-5	1,2-dichloropropane	5.00	4.93	98.6	73.0-127
142-28-9	1,3-dichloropropane	5.00	4.91	98.2	76.7-123
594-20-7	2,2-dichloropropane	5.00	4.62	92.4	41.4-159
563-58-6	1,1-dichloropropene	5.00	4.91	98.2	72.8-127
10061-01-5	cis-1,3-dichloropropene	5.00	4.88	97.6	65.6-134

Paradigm Analytical Laboratories, INC.

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Water Lab Sample ID: LCS1072605A
Sample wt/vol: 5.00 (mL) Lab File ID: 0726104.D
Level: (low/med) NA
% Moisture: not dec. NA Date Analyzed: 2005-07-26 09:08
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	5.00	4.62	92.4	64.4-136
108-20-3	Diisopropyl ether	5.00	4.88	97.6	69.7-130
100-41-4	ethylbenzene	5.00	5.13	103	77.0-123
87-68-3	hexachlorobutadiene	5.00	4.51	90.2	57.4-142
591-78-6	2-hexanone	25.0	22.9	91.7	57.3-143
74-88-4	Iodomethane	5.00	4.87	97.4	57.3-143
98-82-8	isopropylbenzene	5.00	4.94	98.8	76.5-123
99-87-6	4-isopropyltoluene	5.00	4.81	96.2	73.8-126
1634-04-4	Methyl-tert-butyl ether	5.00	5.05	101	67.9-132
75-09-2	methylene chloride	5.00	4.99	99.8	20.0-337
108-10-1	4-methyl-2-pentanone	25.0	22.5	90.1	62.3-138
91-20-3	naphthalene	5.00	4.78	95.6	59.0-141
103-65-1	n-propyl benzene	5.00	5.09	102	75.3-125
100-42-5	styrene	5.00	5.15	103	77.3-123
630-20-6	1,1,1,2-tetrachloroethane	5.00	4.42	88.4	67.3-133
79-34-5	1,1,2,2-tetrachloroethane	5.00	4.78	95.6	62.3-138
127-18-4	tetrachloroethene	5.00	4.67	93.4	56.0-144
108-88-3	toluene	5.00	4.94	98.8	75.9-124
87-61-6	1,2,3-trichlorobenzene	5.00	4.57	91.4	52.8-147
120-82-1	1,2,4-trichlorobenzene	5.00	4.69	93.8	54.4-146
71-55-6	1,1,1-trichloroethane	5.00	4.43	88.6	75.0-125
79-00-5	1,1,2-trichloroethane	5.00	4.73	94.6	73.9-126
79-01-6	trichloroethene	5.00	4.88	97.6	77.9-122
75-69-4	trichlorofluoromethane	5.00	4.61	92.2	82.7-117
96-18-4	1,2,3-trichloropropane	5.00	3.49	69.8	61.5-138
95-36-3	1,2,4-trimethylbenzene	5.00	4.99	99.8	73.8-126
108-67-8	1,3,5-trimethylbenzene	5.00	4.93	98.6	74.6-125
108-05-4	Vinyl acetate	12.5	11.4	91.1	5.00-NA
75-01-4	vinyl chloride	5.00	4.95	99.0	74.5-126
108-38-3	m/p-xylene	10.0	10.2	102	76.2-124
95-47-6	o-xylene	5.00	5.05	101	76.0-124

System Monitoring Compound Results for LCS1072605A		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	10	98.0	98.0	88.6 - 113
17060-07-0	1,2-Dichloroethane-d4	10	87.0	87.0	84.6 - 113.6
2037-26-5	Toluene-d8	10	99.0	99.0	87.4 - 109.3

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726104.D Vial: 4
Acq On : 26 Jul 2005 9:08 am Operator: JTF
Sample : lcs1072605a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:33 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	3092674	10.00 ppb	0.00
39) bromochloropropane	12.00	79	280370	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2168075	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	420135	8.66 ppb	0.00
Spiked Amount 10.000			Recovery	= 86.60%	
33) toluene-d8	11.39	98	2158769	9.93 ppb	0.00
Spiked Amount 10.000			Recovery	= 99.30%	
49) 4-bromofluorobenzene	15.89	95	897680	9.48 ppb	0.00
Spiked Amount 10.000			Recovery	= 94.80%	

Target Compounds					Qvalue
2) dichlorodifluoromethane	2.03	85	265208	4.36 ppb	100
3) chloromethane	2.29	50	497148	5.06 ppb	98
4) vinyl chloride	2.40	62	463025	4.95 ppb	95
5) bromomethane	2.82	94	202242	6.03 ppb	99
6) chloroethane	2.97	64	231505	5.31 ppb	98
7) trichlorofluoromethane	3.32	101	282820	4.61 ppb	96
8) acrolein	3.91	56	379097	107.04 ppb	98
9) 1,1-dichloroethene	4.09	96	238816	4.96 ppb	92
10) acetone	4.16	43	169367	24.32 ppb	99
11) methylene chloride	4.86	84	225121	4.99 ppb	93
12) trans-1,2-dichloroethene	5.32	96	294015	5.05 ppb	92
13) acrylonitrile	5.24	53	1097718	117.07 ppb	100
14) 1,1-dichloroethane	5.99	63	576418	4.81 ppb	97
15) 2,2-dichloropropane	6.93	77	284962	4.62 ppb	96
16) cis-1,2-dichloroethene	6.92	96	283055	4.96 ppb	94
17) 2-butanone	6.95	43	252503	22.39 ppb	97
18) bromochloromethane	7.29	128	96302	4.79 ppb	94
19) chloroform	7.44	83	366376	4.71 ppb	99
20) 1,1,1-trichloroethane	7.74	97	300981	4.43 ppb	96
21) carbon tetrachloride	8.01	117	244275	4.26 ppb	97
22) 1,1-dichloropropene	8.01	75	325774	4.91 ppb	98
24) benzene	8.34	78	1028852	5.09 ppb	97
25) 1,2-dichloroethane	8.35	62	200358	4.35 ppb	95
26) trichloroethene	9.39	95	264976	4.88 ppb	96
27) 1,2-dichloropropane	9.72	63	295274	4.93 ppb	95
28) dibromomethane	9.91	93	75415	5.05 ppb	95
29) bromodichloromethane	10.19	83	196275	4.51 ppb	99
30) 2-chloroethyl vinyl ether	10.70	106	57407	12.42 ppb	96
31) cis-1,3-dichloropropene	10.93	75	253465	4.88 ppb	99
32) 4-methyl-2-pentanone	11.19	43	489999	22.52 ppb	97
34) toluene	11.50	92	653634	4.94 ppb	96
35) Iodomethane	4.31	142	348382	4.87 ppb	96
36) trans-1,3-dichloropropene	11.85	75	163333	4.62 ppb	100
37) Vinyl acetate	6.09	43	1211921	11.39 ppb	98
38) Carbon disulfide	4.42	76	858972	4.99 ppb	100
40) 1,1,2-trichloroethane	12.16	83	87728	4.73 ppb	97
41) tetrachloroethene	12.42	166	267955	4.67 ppb	95
42) 1,3-dichloropropane	12.43	76	197781	4.91 ppb	100
43) 2-hexanone	12.61	43	342425	22.93 ppb	100
44) dibromochloromethane	12.81	129	123120	4.14 ppb	98
45) 1,2-dibromoethane	13.00	107	103093	4.87 ppb	97
46) chlorobenzene	13.87	112	644752	4.79 ppb	99
47) 1,1,1,2-tetrachloroethane	14.01	131	191080	4.42 ppb	96

(#) = qualifier out of range (m) = manual integration
0726104.D 6210D.M Thu Jul 28 15:19:47 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726104.D Vial: 4
Acq On : 26 Jul 2005 9:08 am Operator: JTF
Sample : lcs1072605a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:33 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	bromoform	15.28	173	46724	3.27	ppb	96
50)	bromobenzene	16.15	156	217372	4.71	ppb	96
51)	1,1,2,2-tetrachloroethane	16.15	83	101549	4.78	ppb	96
52)	1,2,3-trichloropropane	16.23	75	125213	3.49	ppb	89
54)	ethylbenzene	14.08	91	1156027	5.13	ppb	99
55)	m/p-xylene	14.29	106	904193	10.25	ppb	98
56)	styrene	15.00	104	569004	5.15	ppb	100
57)	o-xylene	14.98	106	404515	5.05	ppb	99
58)	isopropylbenzene	15.64	105	1060180	4.94	ppb	100
59)	n-propyl benzene	16.38	91	1266647	5.09	ppb	99
60)	2-chlorotoluene	16.51	126	254751	4.91	ppb	97
61)	4-chlorotoluene	16.71	126	265649	5.01	ppb	98
62)	1,3,5-trimethylbenzene	16.70	105	789478	4.93	ppb	98
63)	tert-butylbenzene	17.28	119	743053	4.78	ppb	98
64)	1,2,4-trimethylbenzene	17.37	105	758546	4.99	ppb	100
65)	sec-butylbenzene	17.69	105	1056219	5.00	ppb	98
66)	1,3-dichlorobenzene	17.85	146	458438	4.84	ppb	97
67)	4-isopropyltoluene	17.95	119	884402	4.81	ppb	97
68)	1,4-dichlorobenzene	18.02	146	445771	4.91	ppb	100
69)	1,2-dichlorobenzene	18.68	146	358964	5.00	ppb	99
70)	n-butylbenzene	18.70	91	701345	5.12	ppb	96
71)	1,2-dibromo-3-chloropropan	20.09	75	49916	19.66	ppb	94
72)	1,2,4-trichlorobenzene	21.64	180	160461	4.69	ppb	99
73)	hexachlorobutadiene	21.99	225	93238	4.51	ppb	99
74)	naphthalene	22.07	128	195089	4.78	ppb	100
75)	trans-1,4-Dichloro-2-buten	16.26	89	27514	14.24	ppb	97
76)	1,2,3-trichlorobenzene	22.53	180	110973	4.57	ppb	97
77)	MTBE	5.34	73	330257	5.05	ppb	99
78)	DIPE	6.15	45	1034931	4.88	ppb	88

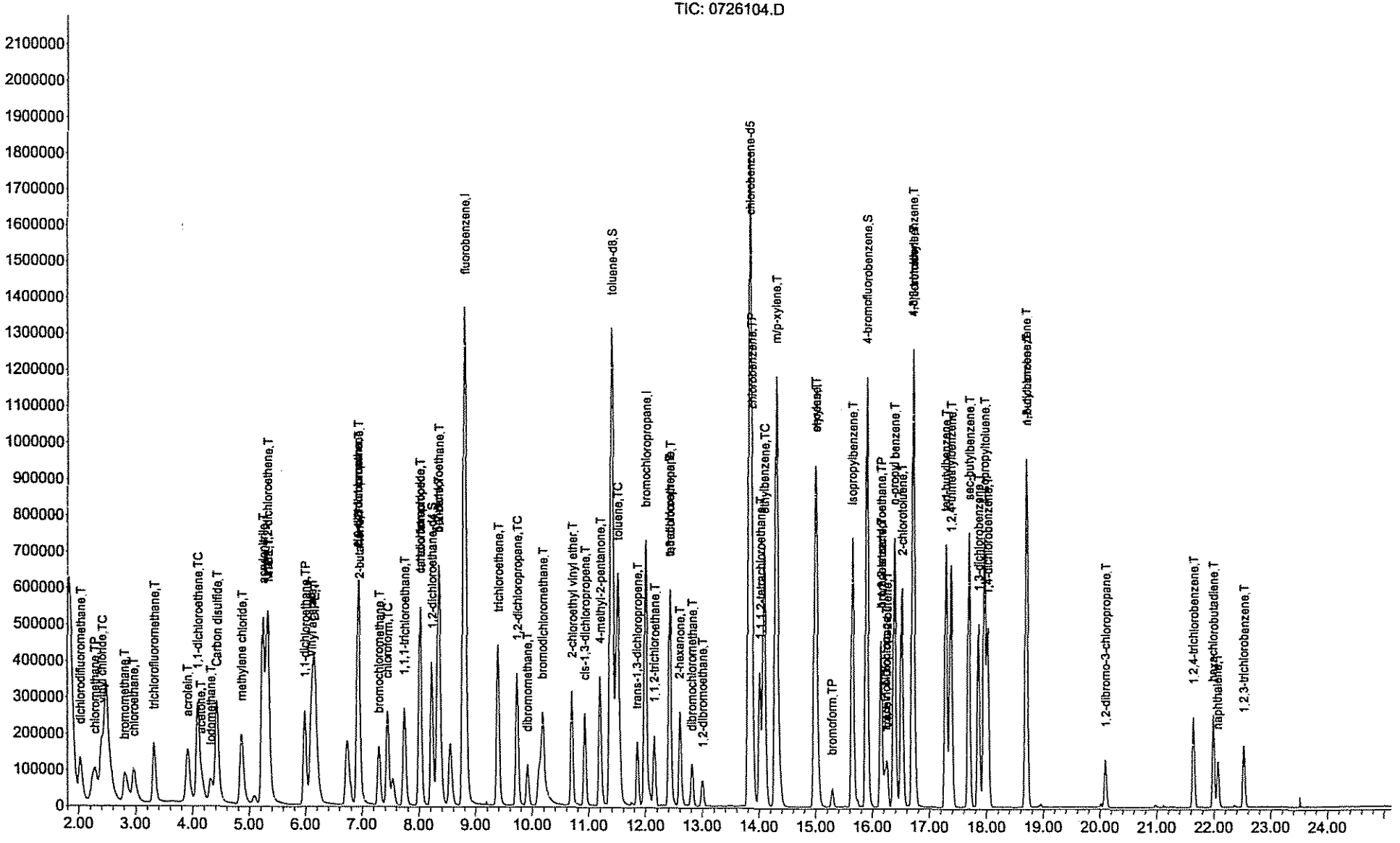
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726104.D Vial: 4
Acq On : 26 Jul 2005 9:08 am Operator: JTF
Sample : lcs1072605a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 9:33 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration

TIC: 0726104.D



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726106.D Vial: 6
Acq On : 26 Jul 2005 10:11 am Operator: JTF
Sample : vblk1072605b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 10:36 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

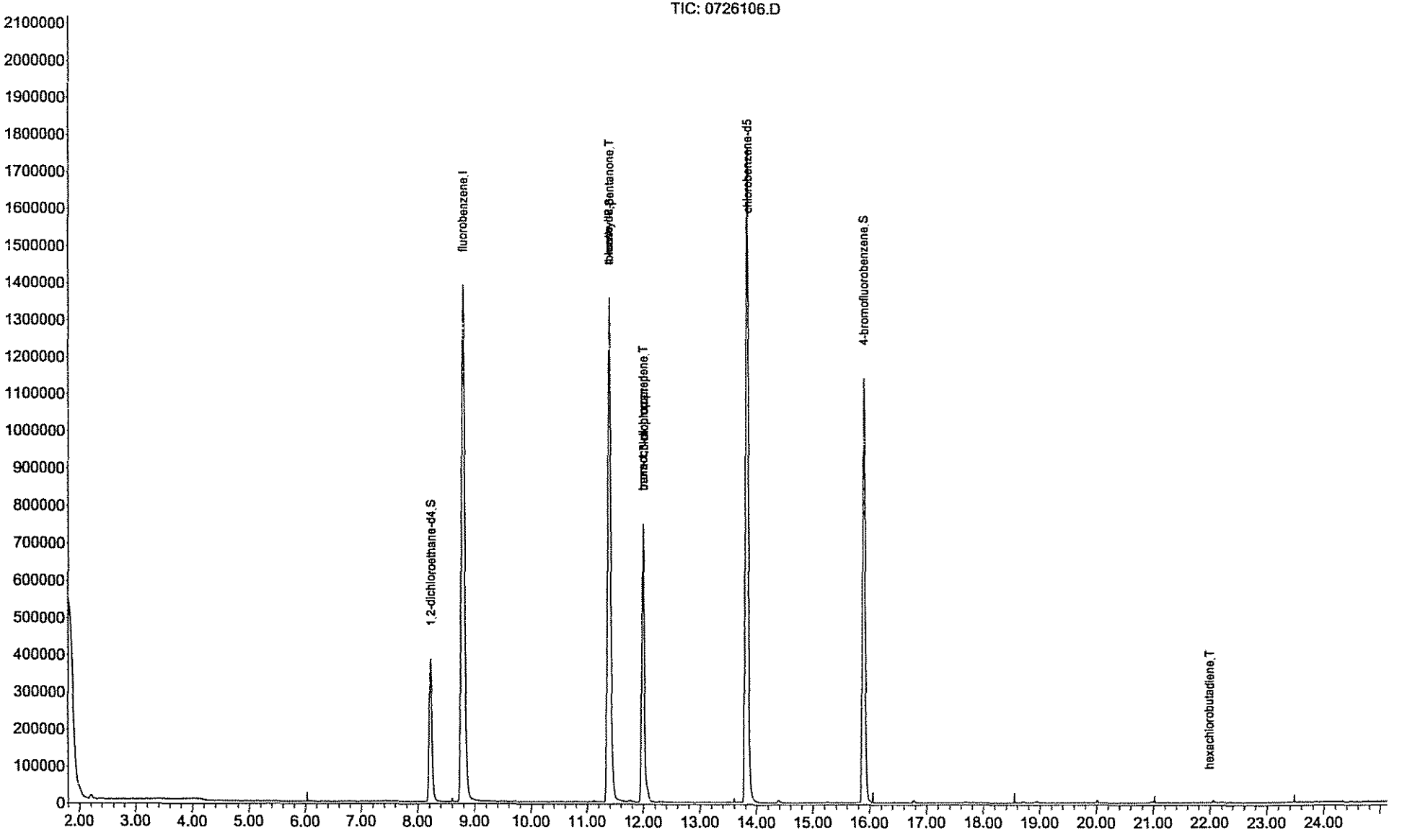
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.79	96	3064844	10.00 ppb	0.00
39) bromochloropropane	11.99	79	274326	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2158083	10.00 ppb	0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	420724	8.76 ppb	0.01
Spiked Amount 10.000			Recovery	= 87.60%	
33) toluene-d8	11.38	98	2123836	9.86 ppb	0.00
Spiked Amount 10.000			Recovery	= 98.60%	
49) 4-bromofluorobenzene	15.89	95	873441	9.43 ppb	0.00
Spiked Amount 10.000			Recovery	= 94.30%	
Target Compounds					Qvalue
10) acetone	4.18	43	2210	Below Cal	# 37
32) 4-methyl-2-pentanone	11.38	43	8139	0.38 ppb	# 1
36) trans-1,3-dichloropropene	11.99	75	9338	0.27 ppb	# 44
73) hexachlorobutadiene	21.98	225	2379	0.12 ppb	# 42

(#) = qualifier out of range (m) = manual integration
0726106.D 6210D.M Thu Jul 28 15:19:59 2005

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726106.D Vial: 6
Acq On : 26 Jul 2005 10:11 am Operator: JTF
Sample : vblk1072605b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 10:36 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration



Paradigm Analytical Laboratories, INC.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2083-2a

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	250	176	70.5	250	170	67.8	3.82	30	17.7-85.2
acrolein	BQL	1250	905	72.4	1250	956	76.4	5.40	30	NA-424
acrylonitrile	BQL	1250	1010	80.5*	1250	1100	87.8	8.63	30	85.0-175
benzene	BQL	50.0	56.3	113	50.0	52.2	104	7.56	30	61.6-135
bromobenzene	BQL	50.0	49.8	99.6	50.0	46.2	92.4	7.50	30	65.1-125
bromochloromethane	BQL	50.0	52.0	104	50.0	49.6	99.2	4.72	30	75.5-126
bromodichloromethane	BQL	50.0	47.3	94.6	50.0	43.9	87.8	7.46	30	74.3-123
bromoform	BQL	50.0	37.6	75.2	50.0	32.5	65.0	14.6	30	52.3-122
bromomethane	BQL	50.0	54.3	108	50.0	48.1	96.2	12.1	30	10.0-284
2-butanone	BQL	250	205	82.2	250	190	76.2	7.58	30	36.1-107
n-butylbenzene	BQL	50.0	52.4	105	50.0	49.8	99.6	5.09	30	70.2-124
sec-butylbenzene	BQL	50.0	53.4	107	50.0	50.0	100	6.58	30	62.0-133
tert-butylbenzene	BQL	50.0	50.6	101	50.0	47.9	95.8	5.48	30	73.5-121
Carbon disulfide	BQL	50.0	54.8	110	50.0	50.2	100	8.76	30	68.8-129
carbon tetrachloride	BQL	50.0	45.1	90.2	50.0	42.2	84.4	6.64	30	71.8-122
chlorobenzene	BQL	50.0	51.9	104	50.0	47.5	95.0	8.85	30	77.2-118
chloroethane	BQL	50.0	49.6	99.2	50.0	44.9	89.8	9.95	30	10.0-233
2-chloroethyl vinyl ether	BQL	125	0.00	0.00	125	0.00	0.00	--	30	NA-283
chloroform	BQL	50.0	49.9	99.8	50.0	46.9	93.8	6.20	30	74.0-128
chloromethane	BQL	50.0	45.1	90.2	50.0	46.9	93.8	3.91	30	72.0-138
2-chlorotoluene	BQL	50.0	52.0	104	50.0	50.6	101	2.73	30	79.3-118
4-chlorotoluene	BQL	50.0	53.9	108	50.0	49.8	99.6	7.91	30	76.8-120
dibromochloromethane	BQL	50.0	46.1	92.2	50.0	41.5	83.0	10.5	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	250	207	82.8	250	184	73.6	11.7	30	20.2-171
1,2-dibromomethane	BQL	50.0	52.2	104	50.0	50.3	101	3.71	30	78.5-123
dibromomethane	BQL	50.0	53.2	106	50.0	48.2	96.4	9.86	30	71.3-137
1,2-dichlorobenzene	BQL	50.0	52.6	105	50.0	48.6	97.2	7.90	30	75.1-120
1,3-dichlorobenzene	BQL	50.0	53.3	106	50.0	48.2	96.4	10.0	30	73.1-121
1,4-dichlorobenzene	BQL	50.0	52.5	105	50.0	48.8	97.6	7.30	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	250	140	56.2	250	113	45.3	21.4	30	25.7-149
dichlorodifluoromethane	BQL	50.0	38.4	76.8	50.0	40.1	80.2	4.33	30	41.7-166
1,1-dichloroethane	BQL	50.0	52.3	105	50.0	48.9	97.8	6.72	30	75.6-128
1,2-dichloroethane	BQL	50.0	46.3	92.6	50.0	43.2	86.4	6.93	30	71.1-127
1,1-dichloroethene	BQL	50.0	55.7	111	50.0	49.6	99.2	11.6	30	64.4-130
cis-1,2-dichloroethene	BQL	50.0	55.5	111	50.0	52.0	104	6.51	30	72.7-134
trans-1,2-dichloroethene	BQL	50.0	55.1	110	50.0	50.6	101	8.51	30	74.6-124
1,2-dichloropropane	BQL	50.0	53.6	107	50.0	49.7	99.4	7.55	30	76.5-129
1,3-dichloropropane	BQL	50.0	53.3	106	50.0	47.9	95.8	10.7	30	79.1-121
2,2-dichloropropane	BQL	50.0	43.6	87.2	50.0	40.2	80.4	8.11	30	31.5-157
1,1-dichloropropene	BQL	50.0	52.7	105	50.0	49.4	98.8	6.46	30	72.5-120
cis-1,3-dichloropropene	BQL	50.0	51.2	102	50.0	46.9	93.8	8.77	30	66.6-132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 1 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2083-2a

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	48.1	96.2	50.0	44.1	88.2	8.68	30	44.7-144
Diisopropyl ether	BQL	50.0	53.0	106	50.0	49.8	99.6	6.22	30	79.4-122
ethylbenzene	BQL	50.0	57.4	115	50.0	52.5	105	8.92	30	73.8-126
hexachlorobutadiene	BQL	50.0	43.4	86.8	50.0	42.1	84.2	3.04	30	51.8-134
2-hexanone	BQL	250	216	86.3	250	200	80.0	7.60	30	41.6-111
Iodomethane	BQL	50.0	45.7	91.4	50.0	45.2	90.4	1.10	30	40.6-126
isopropylbenzene	BQL	50.0	53.9	108	50.0	49.5	99.0	8.51	30	74.3-123
4-isopropyltoluene	BQL	50.0	51.0	102	50.0	47.9	95.8	6.27	30	74.6-122
Methyl-tert-butyl ether	BQL	50.0	54.6	109	50.0	51.2	102	6.43	30	66.5-136
methylene chloride	BQL	50.0	54.0	108	50.0	51.1	102	5.52	30	48.6-155
4-methyl-2-pentanone	BQL	250	240	96.0	250	223	89.3	7.25	30	6.88-166
naphthalene	BQL	50.0	57.1	114	50.0	51.5	103	10.3	30	55.1-140
n-propyl benzene	BQL	50.0	54.7	109	50.0	50.9	102	7.20	30	71.6-128
styrene	BQL	50.0	55.7	111	50.0	51.2	102	8.42	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	50.0	47.8	95.6	50.0	43.6	87.2	9.19	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	50.0	54.8	110	50.0	47.5	95.0	14.3	30	75.7-136
tetrachloroethene	103	50.0	44.7	89.4	50.0	36.8	73.6	19.4	30	45.8-153
toluene	BQL	50.0	54.4	109	50.0	50.8	102	6.84	30	66.4-128
1,2,3-trichlorobenzene	BQL	50.0	41.2	82.4	50.0	44.5	89.0	7.70	30	61.0-126
1,2,4-trichlorobenzene	BQL	50.0	46.3	92.6	50.0	45.8	91.6	1.08	30	60.6-125
1,1,1-trichloroethane	BQL	50.0	46.6	93.2	50.0	43.7	87.4	6.42	30	78.4-121
1,1,2-trichloroethane	BQL	50.0	54.2	108	50.0	49.6	99.2	8.86	30	64.8-128
trichloroethene	BQL	50.0	53.4	107	50.0	49.8	99.6	6.98	30	84.9-136
trichlorofluoromethane	BQL	50.0	41.6	83.2	50.0	42.0	84.0	0.957	30	76.8-132
1,2,3-trichloropropane	BQL	50.0	36.6	73.2	50.0	32.7	65.4	11.2	30	10.0-218
1,2,4-trimethylbenzene	BQL	50.0	55.7	111	50.0	51.2	102	8.42	30	31.0-172
1,3,5-trimethylbenzene	BQL	50.0	53.8	108	50.0	50.3	101	6.72	30	67.7-132
Vinyl acetate	BQL	125	118	94.8	125	112	89.6	5.64	30	NA-355
vinyl chloride	BQL	50.0	45.2	90.4	50.0	46.9	93.8	3.69	30	68.1-137
m/p-xylene	BQL	100	111	111	100	104	104	6.80	30	79.8-118
o-xylene	BQL	50.0	57.1	114	50.0	51.7	103	9.93	30	80.0-121

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 1 out of 144 outside of limits

COMMENTS: _____

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726110.D Vial: 10
Acq On : 26 Jul 2005 12:17 pm Operator: JTF
Sample : g161-2083-2a x10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 9:58 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.80	96	2951643	10.00	ppb	0.00
39) bromochloropropane	11.99	79	262613	10.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2104127	10.00	ppb	0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.23	65	416052	8.99	ppb	0.01
Spiked Amount 10.000			Recovery	=	89.90%	
33) toluene-d8	11.38	98	2041952	9.84	ppb	0.00
Spiked Amount 10.000			Recovery	=	98.40%	
49) 4-bromofluorobenzene	15.89	95	858369	9.68	ppb	0.00
Spiked Amount 10.000			Recovery	=	96.80%	

Target Compounds						Qvalue
9) 1,1-dichloroethene	4.10	96	17571	0.38	ppb #	77
14) 1,1-dichloroethane	5.98	63	71423	0.62	ppb	97
16) cis-1,2-dichloroethene	6.92	96	4382	0.08	ppb #	54
26) trichloroethene	9.39	95	10697	0.21	ppb	93
41) tetrachloroethene	12.42	166	554087	10.30	ppb	98
54) ethylbenzene	13.82	91	594	0.00	ppb #	43

(#) = qualifier out of range (m) = manual integration
0726110.D 8260SSC.M Fri Sep 16 13:11:40 2005

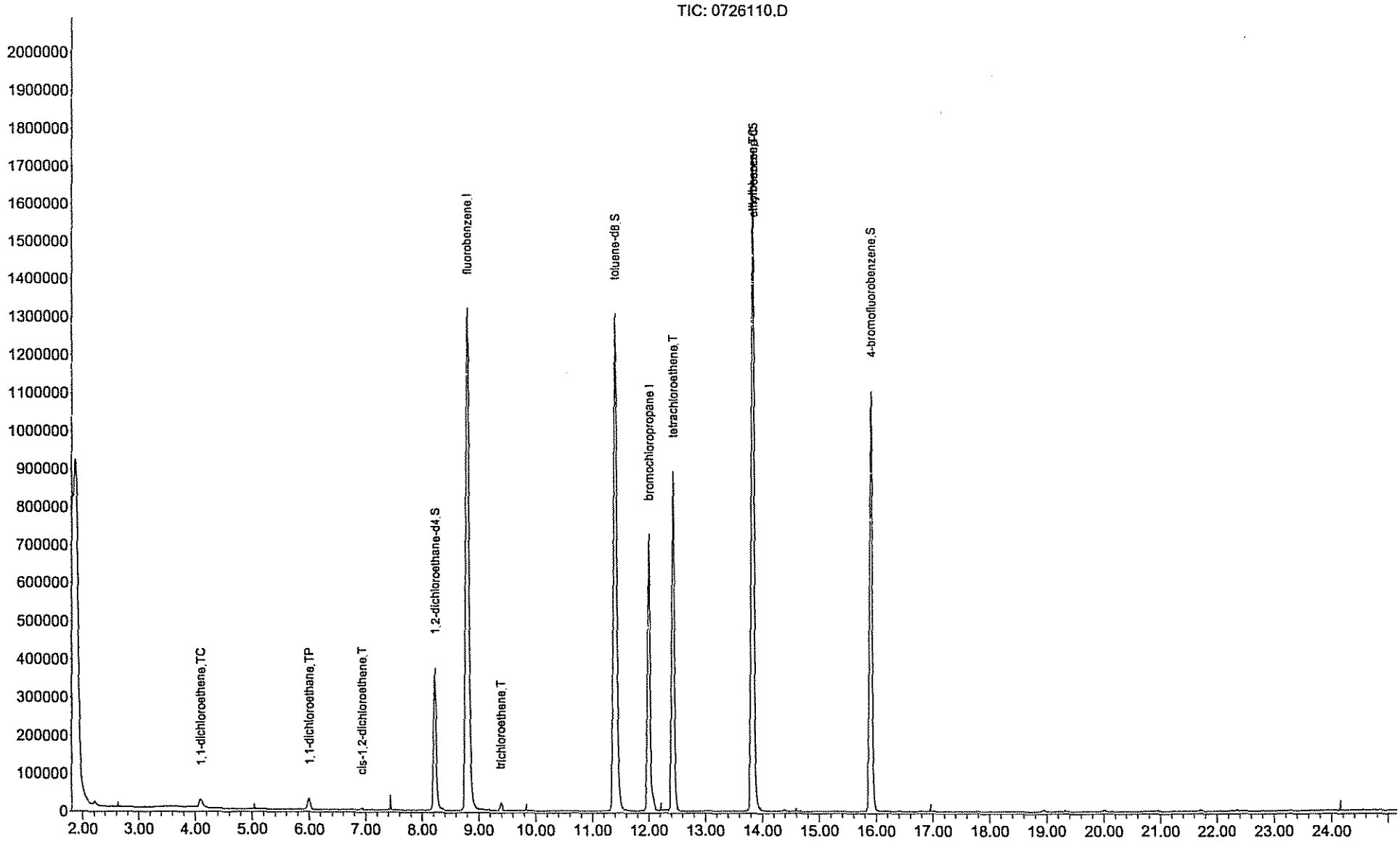
Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726110.D
Acq On : 26 Jul 2005 12:17 pm
Sample : g161-2083-2a x10
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 27 9:58 2005

Vial: 10
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1091505\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Tue Sep 13 14:34:03 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726122.D Vial: 22
Acq On : 26 Jul 2005 6:34 pm Operator: JTF
Sample : g161-2083-2a x10 ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 18:59 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.79	96	2957597	10.00	ppb		0.00
39) bromochloropropane	12.00	79	267646	10.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2056565	10.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.23	65	397034	8.56	ppb		0.02
Spiked Amount 10.000			Recovery	=	85.60%		
33) toluene-d8	11.39	98	2061281	9.92	ppb		0.00
Spiked Amount 10.000			Recovery	=	99.20%		
49) 4-bromofluorobenzene	15.89	95	856144	9.48	ppb		0.00
Spiked Amount 10.000			Recovery	=	94.80%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.03	85	223211	3.84	ppb		99
3) chloromethane	2.29	50	423803	4.51	ppb		97
4) vinyl chloride	2.40	62	403776	4.52	ppb		92
5) bromomethane	2.83	94	174199	5.43	ppb		97
6) chloroethane	2.97	64	206786	4.96	ppb		97
7) trichlorofluoromethane	3.33	101	243926	4.16	ppb		95
8) acrolein	3.91	56	306677	90.54	ppb		100
9) 1,1-dichloroethene	4.09	96	273742	5.95	ppb	#	86
10) acetone	4.17	43	118805	17.62	ppb		99
11) methylene chloride	4.86	84	233027	5.40	ppb	#	88
12) trans-1,2-dichloroethene	5.33	96	306662	5.51	ppb		91
13) acrylonitrile	5.24	53	902725	100.67	ppb		99
14) 1,1-dichloroethane	5.99	63	669603	5.85	ppb		98
15) 2,2-dichloropropane	6.93	77	257306	4.36	ppb		99
16) cis-1,2-dichloroethene	6.93	96	303172	5.55	ppb		91
17) 2-butanone	6.95	43	221507	20.54	ppb		100
18) bromochloromethane	7.29	128	99981	5.20	ppb		99
19) chloroform	7.44	83	371166	4.99	ppb		96
20) 1,1,1-trichloroethane	7.75	97	302778	4.66	ppb		97
21) carbon tetrachloride	8.02	117	247322	4.51	ppb		97
22) 1,1-dichloropropene	8.01	75	334037	5.27	ppb		97
24) benzene	8.34	78	1087601	5.63	ppb		99
25) 1,2-dichloroethane	8.35	62	203698	4.63	ppb		99
26) trichloroethene	9.39	95	288426	5.55	ppb		98
27) 1,2-dichloropropane	9.74	63	307153	5.36	ppb		94
28) dibromomethane	9.91	93	75943	5.32	ppb		91
29) bromodichloromethane	10.19	83	196997	4.73	ppb		97
31) cis-1,3-dichloropropene	10.93	75	254553	5.12	ppb		100
32) 4-methyl-2-pentanone	11.20	43	499491	24.01	ppb		98
34) toluene	11.51	92	688413	5.44	ppb		95
35) Iodomethane	4.32	142	308457	4.57	ppb		100
36) trans-1,3-dichloropropene	11.85	75	162317	4.81	ppb		97
37) Vinyl acetate	6.10	43	1205243	11.85	ppb	#	95
38) Carbon disulfide	4.43	76	901729	5.48	ppb		99
40) 1,1,2-trichloroethane	12.16	83	95417	5.42	ppb		99
41) tetrachloroethene	12.42	166	809404	14.77	ppb		99
42) 1,3-dichloropropane	12.44	76	205024	5.33	ppb		99
43) 2-hexanone	12.61	43	307590	21.57	ppb		98
44) dibromochloromethane	12.81	129	130842	4.61	ppb		99
45) 1,2-dibromoethane	13.00	107	105356	5.22	ppb		94
46) chlorobenzene	13.87	112	667394	5.19	ppb		99
47) 1,1,1,2-tetrachloroethane	14.02	131	196946	4.78	ppb		96
48) bromoform	15.29	173	50853	3.76	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726122.D Vial: 22
Acq On : 26 Jul 2005 6:34 pm Operator: JTF
Sample : g161-2083-2a x10 ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 18:59 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

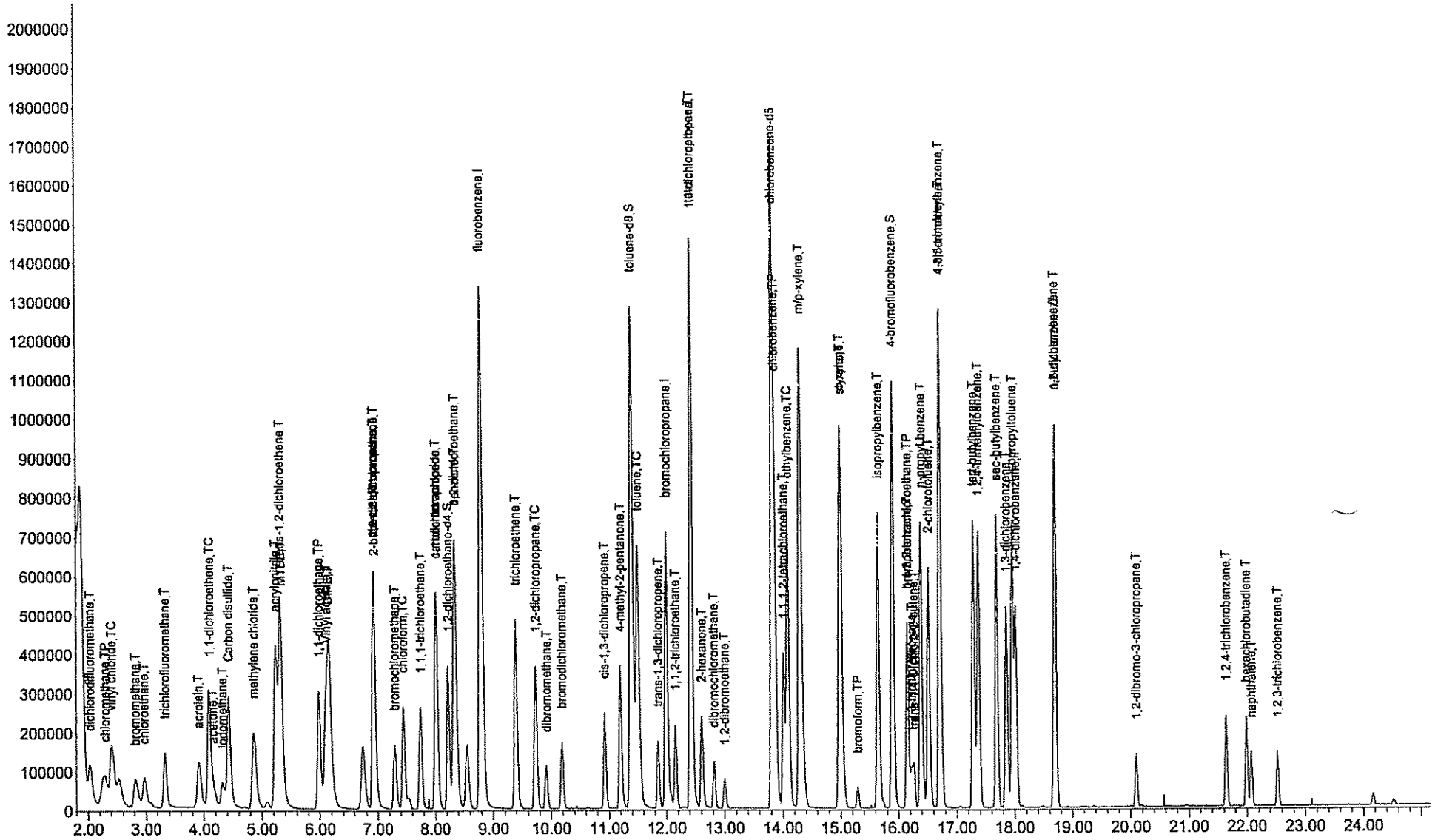
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
50) bromobenzene	16.15	156	219501	4.98 ppb	99
51) 1,1,2,2-tetrachloroethane	16.16	83	111110	5.48 ppb	99
52) 1,2,3-trichloropropane	16.22	75	125654	3.66 ppb	83
54) ethylbenzene	14.08	91	1226902	5.74 ppb	100
55) m/p-xylene	14.30	106	929293	11.10 ppb	97
56) styrene	15.01	104	583671	5.57 ppb	100
57) o-xylene	14.99	106	433709	5.71 ppb	97
58) isopropylbenzene	15.65	105	1097591	5.39 ppb	99
59) n-propyl benzene	16.39	91	1291741	5.47 ppb	100
60) 2-chlorotoluene	16.51	126	255779	5.20 ppb	97
61) 4-chlorotoluene	16.71	126	271427	5.39 ppb	99
62) 1,3,5-trimethylbenzene	16.71	105	817482	5.38 ppb	99
63) tert-butylbenzene	17.29	119	745601	5.06 ppb	98
64) 1,2,4-trimethylbenzene	17.37	105	802348	5.57 ppb	99
65) sec-butylbenzene	17.69	105	1069787	5.34 ppb	95
66) 1,3-dichlorobenzene	17.85	146	479063	5.33 ppb	99
67) 4-isopropyltoluene	17.96	119	889972	5.10 ppb	98
68) 1,4-dichlorobenzene	18.02	146	452294	5.25 ppb	98
69) 1,2-dichlorobenzene	18.69	146	358356	5.26 ppb	98
70) n-butylbenzene	18.70	91	681443	5.24 ppb	99
71) 1,2-dibromo-3-chloropropan	20.10	75	49644	20.69 ppb	92
72) 1,2,4-trichlorobenzene	21.64	180	150427	4.63 ppb	98
73) hexachlorobutadiene	22.00	225	85171	4.34 ppb	97
74) naphthalene	22.07	128	220809	5.71 ppb	100
75) trans-1,4-Dichloro-2-buten	16.26	89	25659	14.05 ppb	97
76) 1,2,3-trichlorobenzene	22.53	180	94890	4.12 ppb	99
77) MTBE	5.35	73	338839	5.46 ppb	97
78) DIPE	6.15	45	1067808	5.30 ppb	89

(#) = qualifier out of range (m) = manual integration
0726122.D 8260SSC.M Fri Sep 16 13:11:50 2005

Data File : D:\HPCHEM\1\DATA\1072605\0726122.D Vial: 22
Acq On : 26 Jul 2005 6:34 pm Operator: JTF
Sample : g161-2083-2a x10 ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 18:59 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1091505\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Tue Sep 13 14:34:03 2005
Response via : Initial Calibration

TIC: 0726122.D



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726123.D Vial: 23
Acq On : 26 Jul 2005 7:05 pm Operator: JTF
Sample : g161-2083-2a x10 msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 19:30 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.80	96	2959396	10.00 ppb	0.00
39) bromochloropropane	11.99	79	270179	10.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2057506	10.00 ppb	0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	396260	8.54 ppb	0.01
Spiked Amount 10.000			Recovery	= 85.40%	
33) toluene-d8	11.38	98	2057667	9.89 ppb	0.00
Spiked Amount 10.000			Recovery	= 98.90%	
49) 4-bromofluorobenzene	15.90	95	846781	9.28 ppb	0.01
Spiked Amount 10.000			Recovery	= 92.80%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	2.03	85	232999	4.01 ppb		98
3) chloromethane	2.28	50	441501	4.69 ppb		98
4) vinyl chloride	2.40	62	419644	4.69 ppb		95
5) bromomethane	2.81	94	154315	4.81 ppb		98
6) chloroethane	2.96	64	187171	4.49 ppb		98
7) trichlorofluoromethane	3.31	101	246318	4.20 ppb		100
8) acrolein	3.91	56	323894	95.57 ppb		98
9) 1,1-dichloroethene	4.09	96	245781	5.34 ppb	#	84
10) acetone	4.17	43	114673	16.96 ppb		100
11) methylene chloride	4.86	84	220483	5.11 ppb		89
12) trans-1,2-dichloroethene	5.32	96	281646	5.06 ppb	#	86
13) acrylonitrile	5.24	53	984780	109.75 ppb		99
14) 1,1-dichloroethane	5.98	63	631735	5.51 ppb		98
15) 2,2-dichloropropane	6.94	77	237380	4.02 ppb		98
16) cis-1,2-dichloroethene	6.93	96	283927	5.20 ppb		91
17) 2-butanone	6.96	43	205481	19.04 ppb		99
18) bromochloromethane	7.30	128	95316	4.96 ppb	#	87
19) chloroform	7.45	83	349098	4.69 ppb		98
20) 1,1,1-trichloroethane	7.74	97	284022	4.37 ppb		99
21) carbon tetrachloride	8.02	117	231752	4.22 ppb		98
22) 1,1-dichloropropene	8.02	75	313214	4.94 ppb		99
24) benzene	8.34	78	1009739	5.22 ppb		96
25) 1,2-dichloroethane	8.34	62	190066	4.32 ppb		96
26) trichloroethene	9.39	95	270038	5.19 ppb		95
27) 1,2-dichloropropane	9.73	63	284963	4.97 ppb		96
28) dibromomethane	9.92	93	68860	4.82 ppb		95
29) bromodichloromethane	10.18	83	182924	4.39 ppb		98
31) cis-1,3-dichloropropene	10.93	75	232965	4.69 ppb		99
32) 4-methyl-2-pentanone	11.20	43	464796	22.33 ppb		98
34) toluene	11.50	92	644078	5.08 ppb		98
35) Iodomethane	4.31	142	304911	4.52 ppb		93
36) trans-1,3-dichloropropene	11.86	75	148925	4.41 ppb		98
37) Vinyl acetate	6.10	43	1140132	11.20 ppb		97
38) Carbon disulfide	4.43	76	827486	5.02 ppb		99
40) 1,1,2-trichloroethane	12.15	83	88487	4.96 ppb		95
41) tetrachloroethene	12.43	166	773503	13.98 ppb		98
42) 1,3-dichloropropane	12.44	76	185962	4.79 ppb		95
43) 2-hexanone	12.60	43	287700	19.99 ppb		98
44) dibromochloromethane	12.82	129	118901	4.15 ppb		99
45) 1,2-dibromoethane	13.01	107	102467	5.03 ppb		94
46) chlorobenzene	13.87	112	616471	4.75 ppb		98
47) 1,1,1,2-tetrachloroethane	14.01	131	181639	4.36 ppb		93
48) bromoform	15.29	173	44663	3.25 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1072605\0726123.D Vial: 23
Acq On : 26 Jul 2005 7:05 pm Operator: JTF
Sample : g161-2083-2a x10 msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 19:30 2005 Quant Results File: 6210D.RES

Quant Method : D:\HPCHEM\1\DATA\1072605\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 13 18:06:03 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50)	bromobenzene	16.16	156	205545	4.62	ppb	98
51)	1,1,2,2-tetrachloroethane	16.16	83	97335	4.75	ppb	98
52)	1,2,3-trichloropropane	16.22	75	112745	3.27	ppb	87
54)	ethylbenzene	14.08	91	1123677	5.25	ppb	99
55)	m/p-xylene	14.30	106	868007	10.37	ppb	98
56)	styrene	15.00	104	536561	5.12	ppb	100
57)	o-xylene	14.98	106	392747	5.17	ppb	99
58)	isopropylbenzene	15.64	105	1008059	4.95	ppb	99
59)	n-propyl benzene	16.38	91	1200607	5.09	ppb	100
60)	2-chlorotoluene	16.52	126	248692	5.06	ppb	92
61)	4-chlorotoluene	16.71	126	250591	4.98	ppb	99
62)	1,3,5-trimethylbenzene	16.71	105	765091	5.03	ppb	100
63)	tert-butylbenzene	17.29	119	705719	4.79	ppb	94
64)	1,2,4-trimethylbenzene	17.38	105	738062	5.12	ppb	99
65)	sec-butylbenzene	17.69	105	1002893	5.00	ppb	95
66)	1,3-dichlorobenzene	17.86	146	433346	4.82	ppb	98
67)	4-isopropyltoluene	17.96	119	835549	4.79	ppb	98
68)	1,4-dichlorobenzene	18.03	146	420844	4.88	ppb	97
69)	1,2-dichlorobenzene	18.68	146	331292	4.86	ppb	99
70)	n-butylbenzene	18.70	91	647309	4.98	ppb	98
71)	1,2-dibromo-3-chloropropan	20.09	75	44543	18.40	ppb	97
72)	1,2,4-trichlorobenzene	21.64	180	148871	4.58	ppb	98
73)	hexachlorobutadiene	21.99	225	82668	4.21	ppb	95
74)	naphthalene	22.07	128	199441	5.15	ppb	100
75)	trans-1,4-Dichloro-2-buten	16.26	89	19571	11.33	ppb	99
76)	1,2,3-trichlorobenzene	22.52	180	102557	4.45	ppb	94
77)	MTBE	5.34	73	317639	5.12	ppb	93
78)	DIPE	6.15	45	1002850	4.98	ppb	90

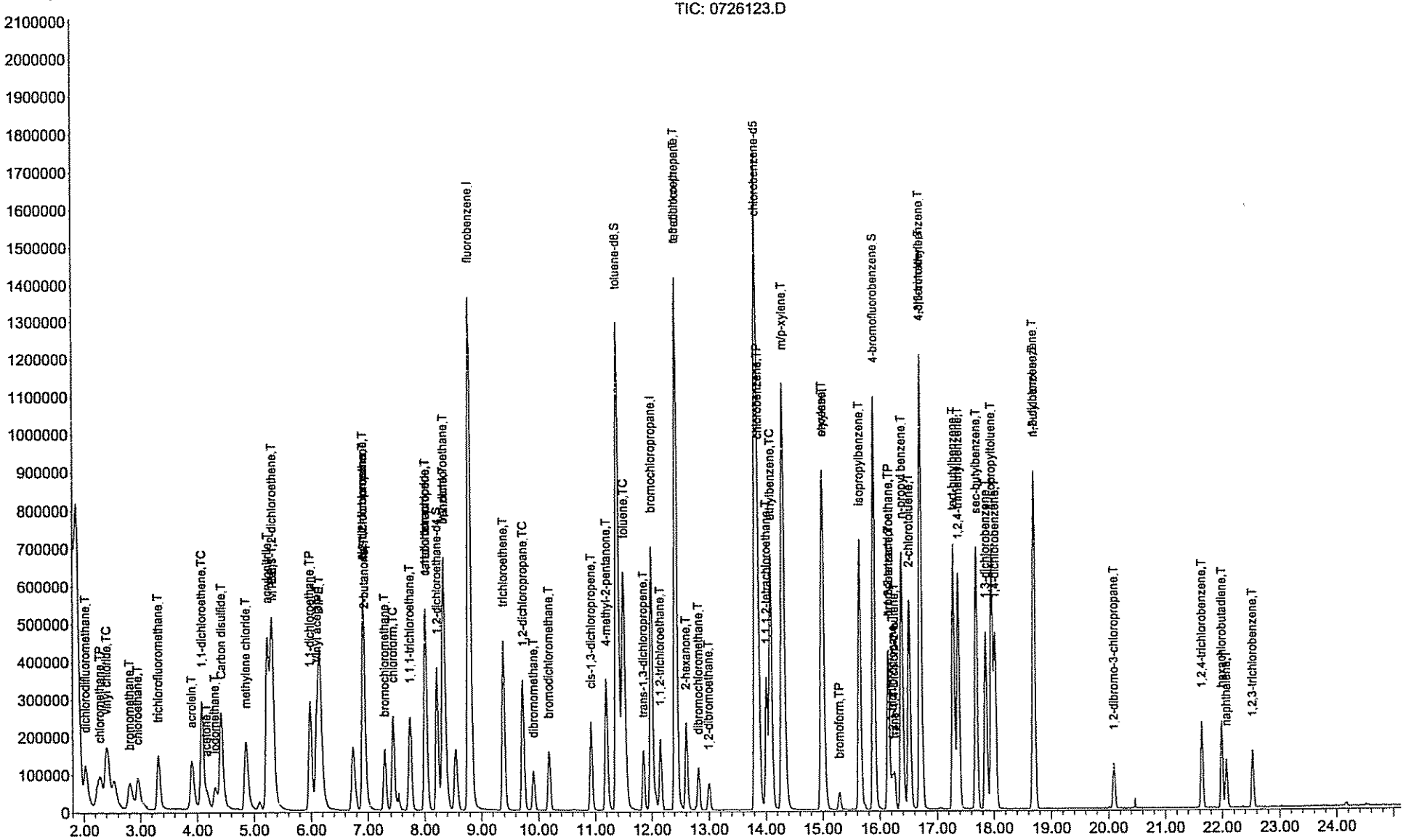
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1072605\0726123.D Vial: 23
Acq On : 26 Jul 2005 7:05 pm Operator: JTF
Sample : g161-2083-2a x10 msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 19:30 2005 Quant Results File: 6210D.RES

Method : D:\HPCHEM\1\DATA\1091505\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Tue Sep 13 14:34:03 2005
Response via : Initial Calibration

TIC: 0726123.D



6210d Prep, Standard, Run Logs

Water BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 20	Restek 502.2 MEGA mix lot A033292	2000	100	10	20
7A- 22	restek ketones lot A034310	5000	200	10	100
7B- 122	8260rxtv-7- 063005	10000	100	10	100
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 6/30/05
Prep date: ↓
Expiration date: 7/3/05

PAL lot number: 8260WBQ-7-063005

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 28	Restek gases A036202	2000	100	10	20
7B- 123	8260ac/ac/2ceve-7- 071105	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/11/05
Prep date: ↓
Expiration date: 7/18/05

PAL lot number: 8260WGQ-7-071105-462

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 28	Restek gases A036202	2000	100	10	20
7B- 128	8260ac/ac/2ceve-7- 071805	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/18/05
Prep date: ↓
Expiration date: 7/25/05

PAL lot number: 8260WGQ-7-071805-462

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 28	Restek gases A036202	2000	100	10	20
7B- 130	8260ac/ac/2ceve-7- 072505	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/25/05
Prep date: ↓
Expiration date: 8/1/05

PAL lot number: 8260WGQ-7-072505-462

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-	Restek gases	2000	100	10	20
7B-	8260ac/ac/2ceve-7-	5000	1000	10	500
Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number: 8260WGQ-7-

See reverse for any comments

page: [illegible]

VO29.112202.1

Water BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 19	Restek 502.2 MEGA mix lot A03329 1	2000	100	10	20
7A- 21	restek ketones lot A03 [illegible] 90	5000	200	10	100
7B- 121	8260rxtv-7- 063005 30% [illegible] 063005	10000	100	10	100
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 6/30/05
Prep date:
Expiration date: 7/30/05

PAL lot number: 8260WBC-7-063005-Ccl

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 27	Restek gases A03 [illegible] 238	2000	100	10	20
7B- 124	8260ac/ac/2ceve-7- 071105	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/11/05 ~~07/11/05~~
Prep date:
Expiration date: 7/13/05

PAL lot number: 8260WGC-7- 071105-Ccl

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol. (ml)	Final Conc (ppm)
7A- 27	Restek gases A03423 0	2000	100	10	20
7B- 127	8260ac/ac/2ceve-7- 071805	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/18/05
Prep date:
Expiration date: 7/25/05

PAL lot number: 8260WGC-7- 071805-Ccl

Water GAS Mix:

Refering Page	Description	Initial conc (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 27	Restek gases A03423 0	2000	100	10	20
7B- 129	8260ac/ac/2ceve-7- 072505	5000	1000	10	500
Solvent:	Methanol LOT# [illegible]				

Ampule opened: 7/25/05
Prep date:
Expiration date: 8/1/05

PAL lot number: 8260WGC-7- 072505-Ccl

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A-	Restek gases	2000	100	10	20
7B-	8260ac/ac/2ceve-6-	5000	1000	10	500
Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number: 8260WGC-7-

See reverse for any comments

page: Ccl

VO28.112202.1

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66
8260WGC-7-071105-C61 8260WGQ-7-71105-C62 8260SGC-7-071105-C65 8260SGQ-7-711005-C66

Paradigm Analytical

Method: 5030/5035 8260 / 6210D

MSD1 Runlog 016 Sheet

Initial Cal. Curve:

Matrix: Soil Water

Batch: 1071305 8260/6210d:7/13/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0713101.D	bfb 50ng	7/13/05 14:30				JTF	
0713102.D	vstd0.5	7/13/05 15:01				JTF	
0713103.D	vstd2	7/13/05 15:32				JTF	
0713104.D	vstd5	7/13/05 16:03				JTF	
0713105.D	vstd10	7/13/05 16:35				JTF	
0713106.D	vstd20	7/13/05 17:06				JTF	
0713107.D	vstd50	7/13/05 17:37				JTF	
0713108.D	bfb 50ng	7/13/05 18:08				JTF	
0713109.D	b	7/13/05 18:40				JTF	
0713110.D	vstd2	7/13/05 19:11				JTF	
0713111.D	qchk005	7/13/05 19:42				JTF	
0713112.D	vstd10	7/13/05 20:13				JTF	
0713113.D	lcs1071305a	7/13/05 20:44				JTF	
0713114.D	G211-1832-5E X50	7/13/05 21:15				JTF	
0713115.D	vblk1071305b	7/13/05 21:47				JTF	
0713116.D							

Analyst JTF

Page Number: 32 of 42

VO21.112202.1

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66
8260WGC-7-077505-C61 8260WGQ-7-072505-C62 8260SGC-7-072505-C65 8260SGQ-7-072505-C66

Paradigm Analytical

Method: 5030/5035 8260 / 6210D

MSD1 Runlog 016 Sheet

Initial Cal. Curve:

Matrix: Soil Water

Batch: 1072605 8260/6210d:7/13/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0726101.D	bfb 50ng	7/26/05 7:34				JTF	
0726102.D	vstd10	7/26/05 8:05				JTF	
0726103.D	qchk005	7/26/05 8:36				JTF	
0726104.D	lcs1072605a	7/26/05 9:08				JTF	
0726105.D	vblk1072605a	7/26/05 9:39				JTF	
0726106.D	vblk1072605b	7/26/05 10:11				JTF	
0726107.D	g161-2083-4a	7/26/05 10:42				JTF	
0726108.D	g161-2083-1a	7/26/05 11:14				JTF	
0726109.D	g161-2083-3a	7/26/05 11:45				JTF	
0726110.D	g161-2083-2a x10	7/26/05 12:17				JTF	
0726111.D	g311-133-7a	7/26/05 12:48				JTF	
0726112.D	g311-133-6a	7/26/05 13:20				JTF	
0726113.D	g311-133-5a	7/26/05 13:51				JTF	
0726114.D	g460-29-5a	7/26/05 14:22				JTF	
0726115.D	g311-133-8a	7/26/05 14:54				JTF	
0726116.D	g311-133-9a	7/26/05 15:25				JTF	
0726117.D	g311-133-10a	7/26/05 15:56				JTF	
0726118.D	g460-30-1a x2	7/26/05 16:28				JTF	
0726119.D	g460-29-1a x4	7/26/05 16:59				JTF	
0726120.D	g311-131-5a x4	7/26/05 17:31				JTF	
0726121.D	g311-133-8b dup	7/26/05 18:02				JTF	
0726122.D	g161-2083-2a x10 ms	7/26/05 18:34				JTF	

Analyst SJF

Page Number: 4681

VO21.112202.1

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66
8260WGC-7-077505-C61 8260WGQ-7-072505-C62 8260SGC-7-072505-C65 8260SGQ-7-072505-C66

Paradigm Analytical

Method: 5030/5035 8260 / 6210D

MSD1 Runlog 016 Sheet

Initial Cal. Curve:

Matrix: Soil Water

Batch: 1072605 8260/6210d:7/13/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0726123.D	g161-2083-2a x10 msd	7/26/05 19:05				JTF	

Analyst JTF

Page Number: 4082

VO21.112202.1

625-BN Sample Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727637.D Vial: 37
Acq On : 28 Jul 2005 5:37 am Operator: MRC
Sample : G161-2083-1J x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:43 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

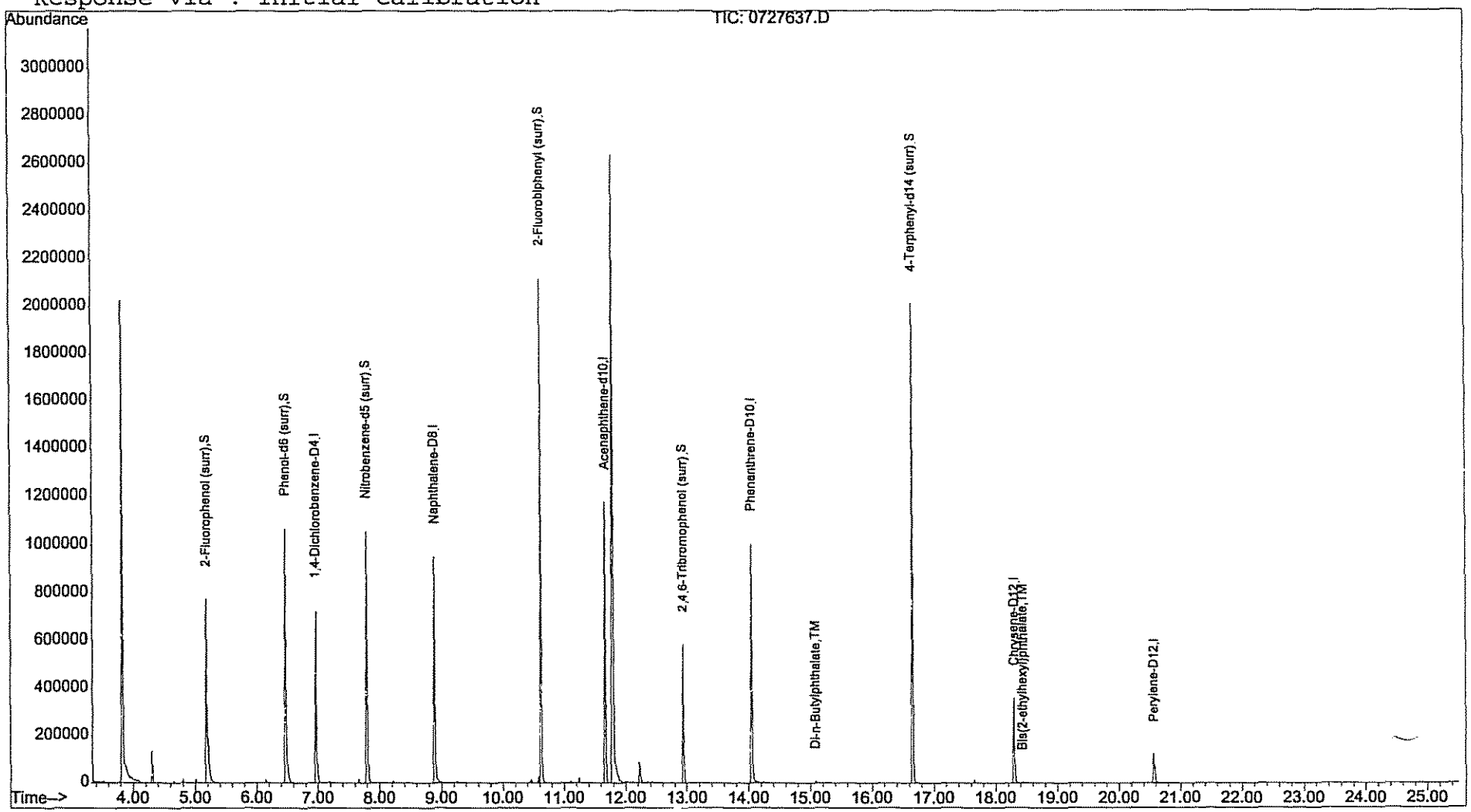
NMC 08/01/05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	163483	4.00 ug/mL	-0.05
18) Naphthalene-D8	8.89	136	669052	4.00 ug/mL	-0.05
33) Acenaphthene-d10	11.67	164	377563	4.00 ug/mL	-0.06
55) Phenanthrene-D10	14.05	188	554522	4.00 ug/mL	-0.06
85) Chrysene-D12	18.30	240	230465	4.00 ug/mL	-0.06
93) Perylene-D12	20.57	264	118366	4.00 ug/mL	-0.07
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.19	112	342126	8.28 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 82.80%	
17) Phenol-d6 (surr)	6.47	99	568153	8.69 ug/mL	-0.04
Spiked Amount 10.000			Recovery	= 86.90%	
32) Nitrobenzene-d5 (surr)	7.80	128	194354	8.26 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 82.60%	
53) 2-Fluorobiphenyl (surr)	10.62	172	910616	8.55 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 85.50%	
54) 2,4,6-Tribromophenol (surr	12.94	330	89919	8.10 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 81.00%	
92) 4-Terphenyl-d14 (surr)	16.66	244	788305m	13.81 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 138.10%	
Target Compounds					Qvalue
65) Di-n-Butylphthalate	15.08	149	9559	0.06 ug/mL#	78
91) Bis(2-ethylhexyl)phthalate	18.43	149	4066	0.08 ug/mL#	48

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\6072705\0727637.D Vial: 37
Acq On : 28 Jul 2005 5:37 am Operator: MRC
Sample : G161-2083-1J x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:43 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727637.D Vial: 37
Acq On : 28 Jul 2005 5:37 am Operator: MRC
Sample : G161-2083-1J x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.83	11.11 ug/mL	2649560	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	94
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	91
5	Toluene	92	C7H8	000108-88-3	87

****

Peak Number 2 Tetrachloroethylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.31	0.64 ug/mL	152161	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrachloroethylene	164	C2Cl4	000127-18-4	98
2	Tetrachloroethylene	164	C2Cl4	000127-18-4	97
3	Tetrachloroethylene	164	C2Cl4	000127-18-4	97
4	Tetrachloroethylene	164	C2Cl4	000127-18-4	96
5	Pyrimidine, 5-fluoro-2,4-dichloro-	166	C4HCl2FN2	002927-71-1	43

****

Peak Number 3 Spiro[3.3]heptane-2,6-dione Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	11.11 ug/mL	4060550	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Spiro[3.3]heptane-2,6-dione	124	C7H8O2	020061-23-8	35
2	Dimetridazole	141	C5H7N3O2	000551-92-8	35
3	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	32
4	Diazene, dicyclohexyl-, 1,2-dioxide	226	C12H22N2O2	003378-45-8	25
5	1,3-Octadiene	110	C8H14	001002-33-1	23

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727637.D Vial: 37
Acq On : 28 Jul 2005 5:37 am Operator: MRC
Sample : G161-2083-1J x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 Butanoic acid, 1-ethenylhexyl Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	0.36 ug/mL	130804	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 1-ethenylhexyl ester	198	C12H22O2	016491-54-6	10
2	cis-Dodec-5-enal	182	C12H22O	068820-33-7	10
3	Cycloheptanone, oxime	127	C7H13NO	002158-31-8	10
4	Tricyclo[2.2.1.02,6]heptan-3-ol	110	C7H10O	000695-04-5	9
5	Bicyclo[7.1.0]decane	138	C10H18	000286-76-0	9

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 28 Jul 2005 5:37 am
Data File: C:\HPCHEM\1\DATA\6072705\0727637.D
Name: G161-2083-1J x1
Misc: 625 - BN - TICS - CLP [3520-3298]
Method: C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Toluene	3.83	11.1	ug/mL	2649560	ISTD01	6.97	953788	4.0
Tetrachloroethylene	4.31	0.6	ug/mL	152161	ISTD01	6.97	953788	4.0
Spiro[3.3]heptane-2,	11.80	11.1	ug/mL	4060550	ISTD03	11.67	1461850	4.0
Butanoic acid, 1-eth	12.22	0.4	ug/mL	130804	ISTD03	11.67	1461850	4.0

0727637.D 8270.M Mon Aug 01 10:14:40 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727638.D Vial: 38
Acq On : 28 Jul 2005 6:11 am Operator: MRC
Sample : G161-2083-2G x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:43 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 08-01-05

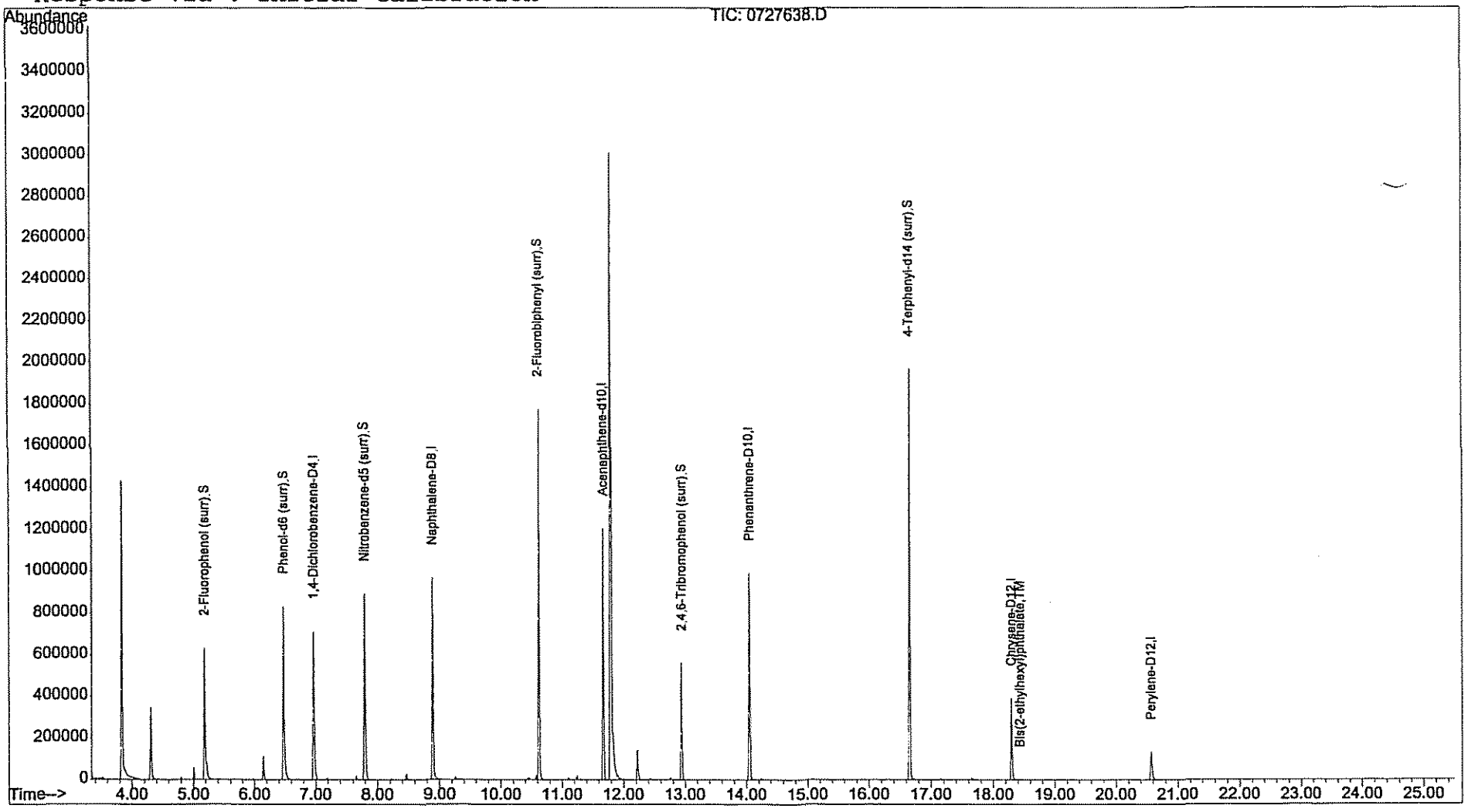
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	173204	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.89	136	688877	4.00	ug/mL	-0.06
33) Acenaphthene-d10	11.67	164	394061	4.00	ug/mL	-0.06
55) Phenanthrene-D10	14.05	188	580282	4.00	ug/mL	-0.06
85) Chrysene-D12	18.30	240	250023	4.00	ug/mL	-0.06
93) Perylene-D12	20.57	264	127347	4.00	ug/mL	-0.07
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.18	112	257954	5.89	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	58.90%	
17) Phenol-d6 (surr)	6.47	99	474387	6.85	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	68.50%	
32) Nitrobenzene-d5 (surr)	7.80	128	163863	6.76	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	67.60%	
53) 2-Fluorobiphenyl (surr)	10.62	172	770871	6.94	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	69.40%	
54) 2,4,6-Tribromophenol (surr	12.94	330	85686	7.40	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	74.00%	
92) 4-Terphenyl-d14 (surr)	16.66	244	810919m	13.10	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	131.00%	
Target Compounds						Qvalue
91) Bis(2-ethylhexyl)phthalate	18.43	149	3034	0.05	ug/mL#	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727638.D Vial: 38
Acq On : 28 Jul 2005 6:11 am Operator: MRC
Sample : G161-2083-2G x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:43 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727638.D Vial: 38
Acq On : 28 Jul 2005 6:11 am Operator: MRC
Sample : G161-2083-2G x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.83	7.88 ug/mL	1958060	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	90
5	Toluene	92	C7H8	000108-88-3	90

****

Peak Number 2 Tetrachloroethylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.31	1.86 ug/mL	463022	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrachloroethylene	164	C2Cl4	000127-18-4	97
2	Tetrachloroethylene	164	C2Cl4	000127-18-4	96
3	Tetrachloroethylene	164	C2Cl4	000127-18-4	96
4	Tetrachloroethylene	164	C2Cl4	000127-18-4	94
5	Pyrimidine, 5-fluoro-2,4-dichloro-	166	C4HCl2FN2	002927-71-1	43

****

Peak Number 3 1,3-Benzodioxol-2-one, hexahyd Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.01	0.25 ug/mL	63134	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Benzodioxol-2-one, hexahydro-,	142	C7H10O3	019456-20-3	23
2	1-Pentene	70	C5H10	000109-67-1	9
3	1-Propene, 3,3'-oxybis-	98	C6H10O	000557-40-4	9
4	1-Propene, 3,3'-oxybis-	98	C6H10O	000557-40-4	9
5	1-Pentene	70	C5H10	000109-67-1	7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727638.D Vial: 38
Acq On : 28 Jul 2005 6:11 am Operator: MRC
Sample : G161-2083-2G x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 1-Propene, 3,3,3-trichloro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.14	0.55 ug/mL	135399	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3,3,3-trichloro-	144	C3H3Cl3	002233-00-3	74
2	Quinuclidine	111	C7H13N	000100-76-5	4
3	2-Propanone, 1,1-dichloro-	126	C3H4Cl2O	000513-88-2	2
4	Imidazole-4-carboxamide	111	C4H5N3O	000000-00-0	2
5	3,4-Pyridinediamine	109	C5H7N3	000054-96-6	2

****
Peak Number 5 Spiro[3.3]heptane-2,6-dione Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	13.37 ug/mL	5096340	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Spiro[3.3]heptane-2,6-dione	124	C7H8O2	020061-23-8	38
2	Diazene, dicyclohexyl-, 1,2-dioxide	226	C12H22N2O2	003378-45-8	32
3	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	32
4	5H-Pyrrolotetrazole, 6,7-dihydro-	110	C4H6N4	005817-87-8	25
5	Butyronitrile, 4,4,4-trifluoro-2-me	137	C5H6F3N	002214-85-9	25

****
Peak Number 6 3-Pyridazinamine, 6-chloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	0.53 ug/mL	200230	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pyridazinamine, 6-chloro-	129	C4H4ClN3	005469-69-2	40
2	2-Cyclohexen-1-one, oxime	111	C6H9NO	003349-62-0	33
3	1,4:5,8-Dimethanonaphthalen-9-ol, 1	176	C12H16O	028068-45-3	25
4	5-Exo-methyl-5-norbornenol	124	C8H12O	003212-13-3	9
5	1-Penten-3-yne	66	C5H6	000646-05-9	5

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 28 Jul 2005 6:11 am
Data File: C:\HPCHEM\1\DATA\6072705\0727638.D
Name: G161-2083-2G x1
Misc: 625 - BN - TICS - CLP [3520-3298]
Method: C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

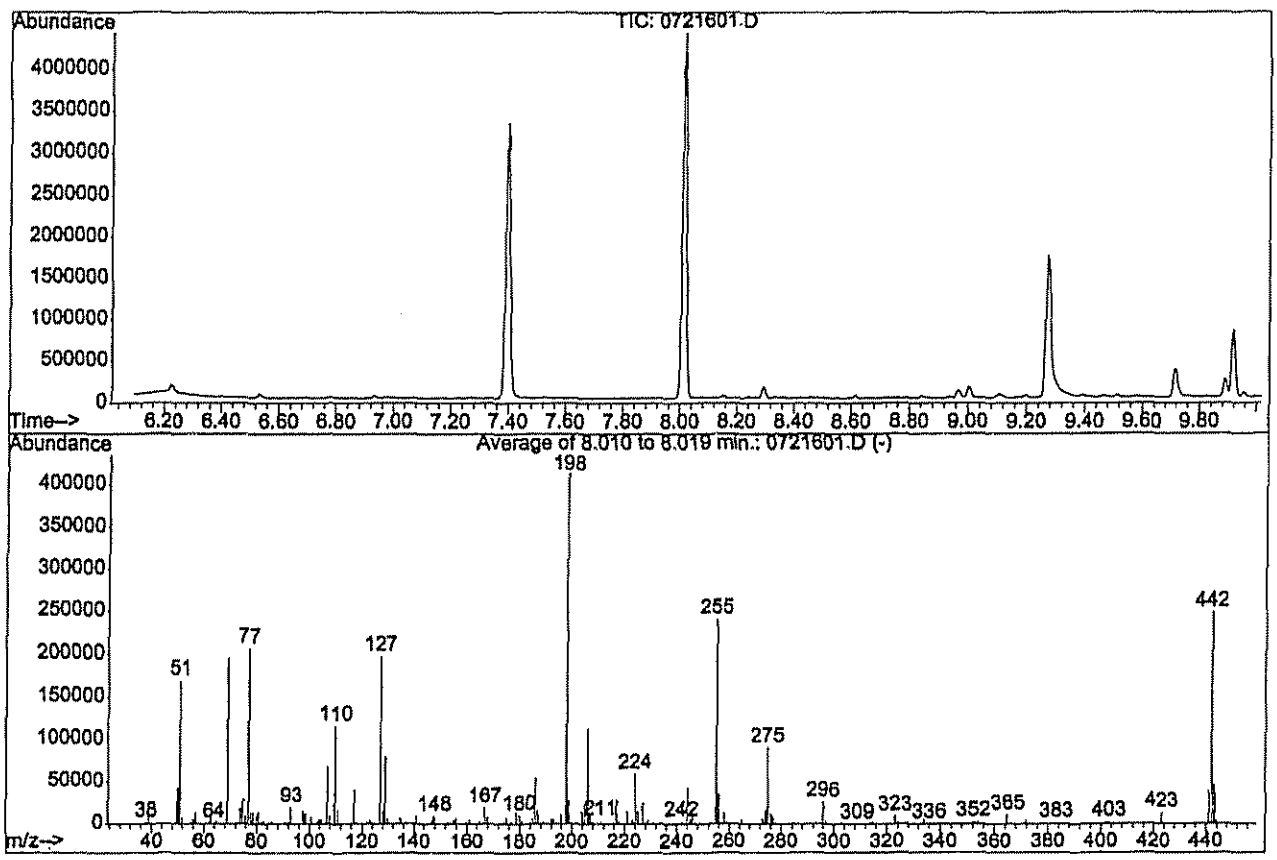
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Toluene	3.83	7.9	ug/mL	1958060	ISTD01	6.97	993323	4.0
Tetrachloroethylene	4.31	1.9	ug/mL	463022	ISTD01	6.97	993323	4.0
1,3-Benzodioxol-2-on	5.01	0.3	ug/mL	63134	ISTD01	6.97	993323	4.0
1-Propene, 3,3,3-tri	6.14	0.5	ug/mL	135399	ISTD01	6.97	993323	4.0
Spiro[3.3]heptane-2,	11.80	13.4	ug/mL	5096340	ISTD03	11.67	1524600	4.0
3-Pyridazinamine, 6-	12.22	0.5	ug/mL	200230	ISTD03	11.67	1524600	4.0

0727638.D 8270.M Mon Aug 01 10:14:51 2005 ENV

625-BN Tuning

DFTPP

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 399, 400, 401; Background Corrected with Scan 391

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	169547	PASS
68	69	0.00	2	0.8	1473	PASS
69	198	0.00	100	47.1	195021	PASS
70	69	0.00	2	0.5	885	PASS
127	198	40	60	47.6	197375	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	414379	PASS
199	198	5	9	6.7	27705	PASS
275	198	10	30	21.9	90888	PASS
365	198	1	100	2.6	10770	PASS
441	443	0.01	100	86.1	39656	PASS
442	198	40	100	59.8	247936	PASS
443	442	17	23	18.6	46032	PASS

0721601.D DFTPP.M Thu Jul 21 09:09:38 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

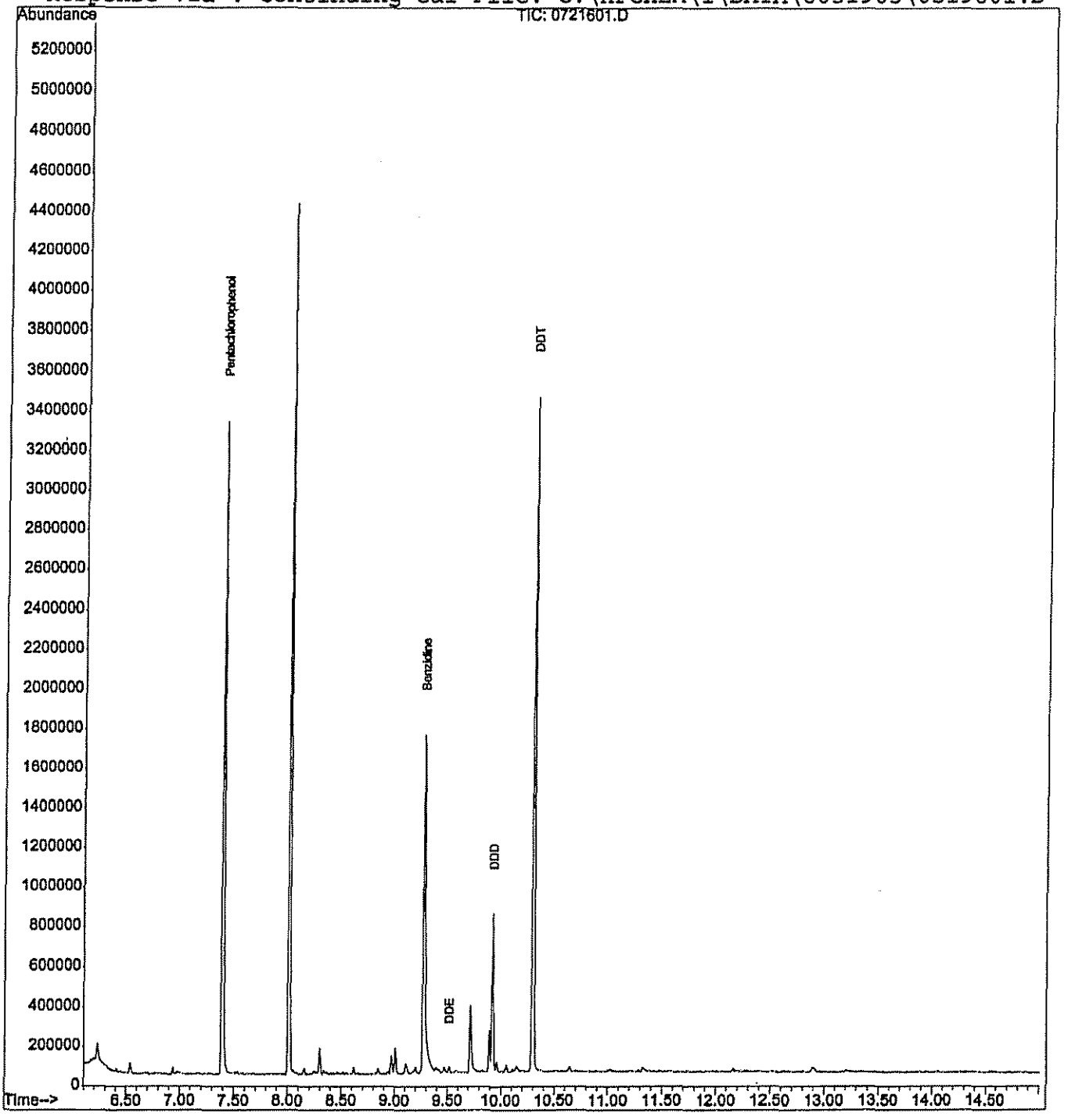
Target Compounds					Qvalue
1) Pentachlorophenol	7.39	TIC	3725642	2.32	100
2) Benzidine	9.27	TIC	2459087	2.71	100
3) DDT	10.29	TIC	3678880	6.88	100
4) DDD	9.92	TIC	778711	151.52	100
5) DDE	9.51	TIC	29294m	1.51	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: DFTPP.RES

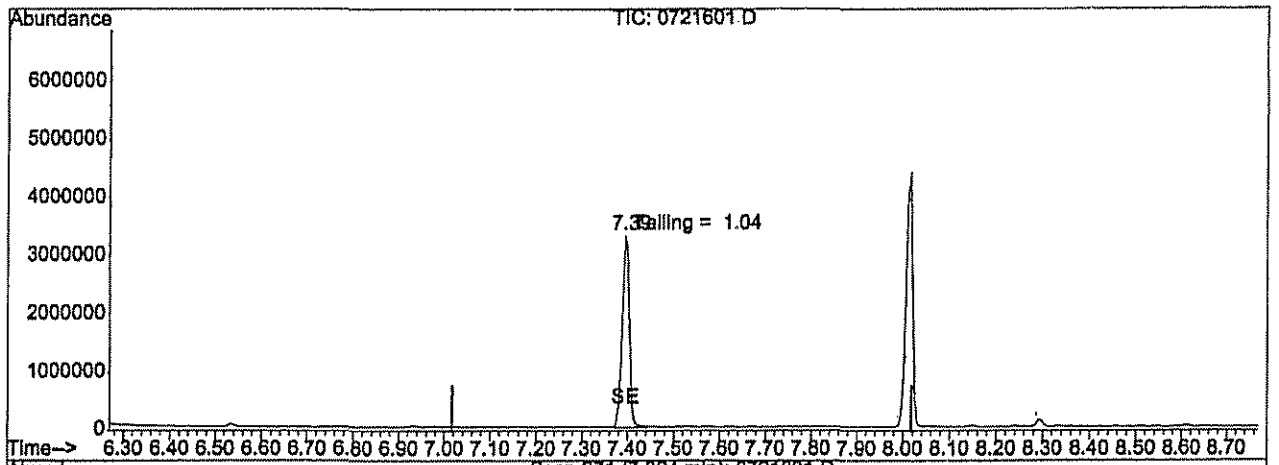
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

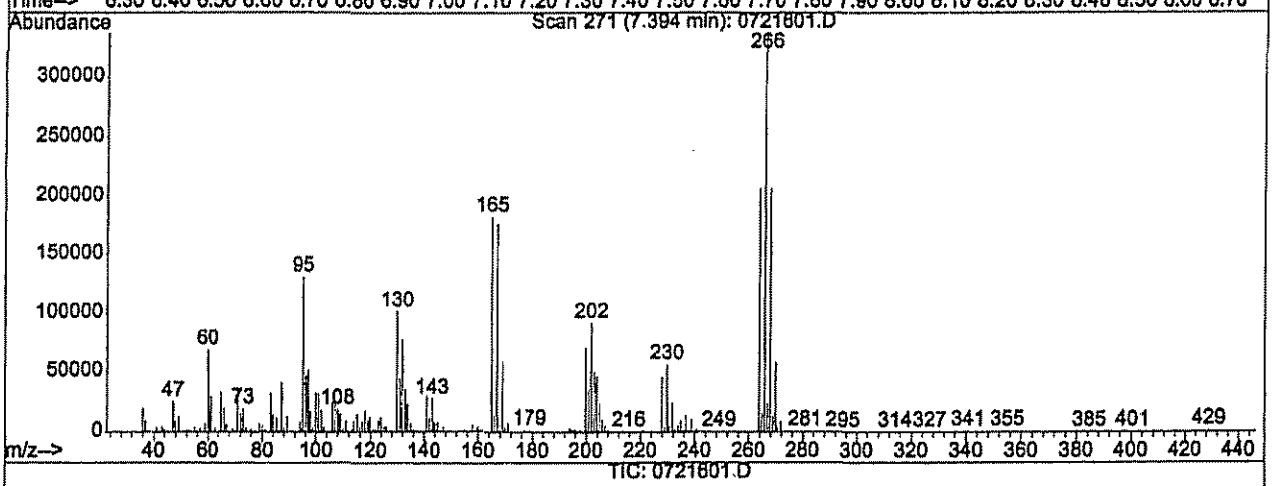


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0721601.D

(1) Pentachlorophenol

7.39min 2.32

response 3725642

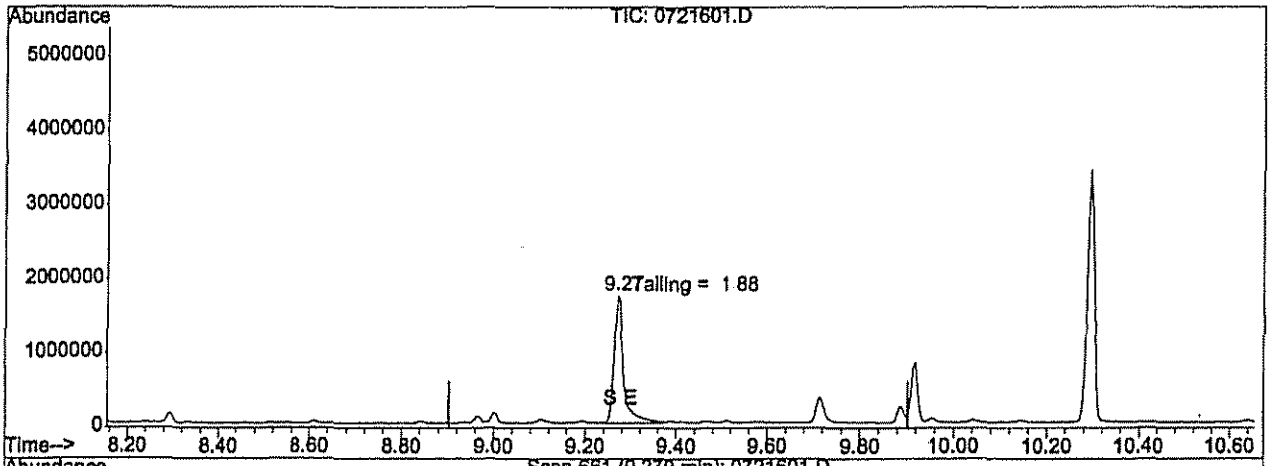
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

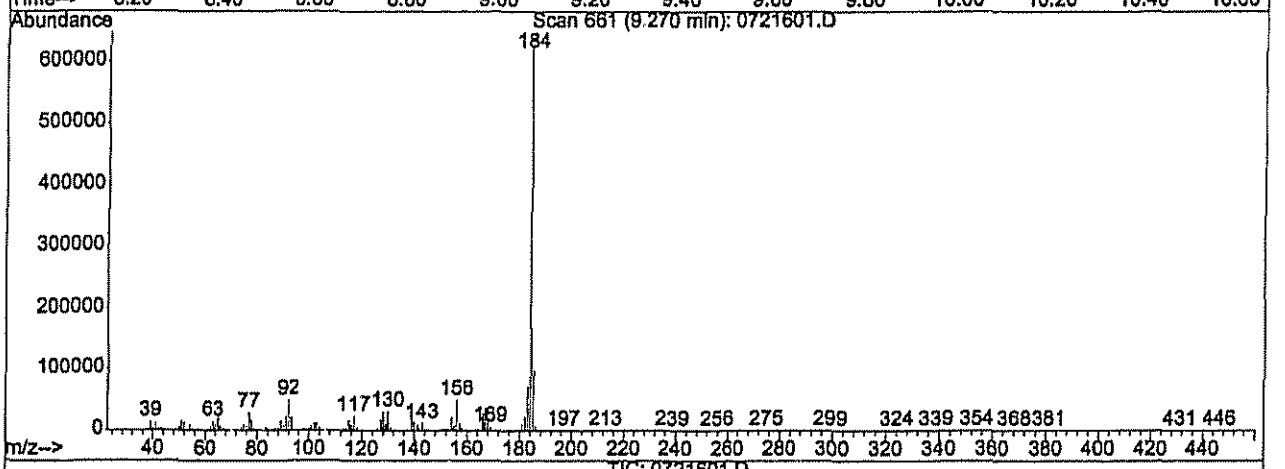
0721601.D DFTPP.M Thu Jul 21 11:11:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0721601.D

(2) Benzidine

9.27min 2.71

response 2459087

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0721601.D DFTPP.M Thu Jul 21 11:11:34 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	3678880
	DDD	778711
	DDE	29294
	% Breakdown =	**18.01%**

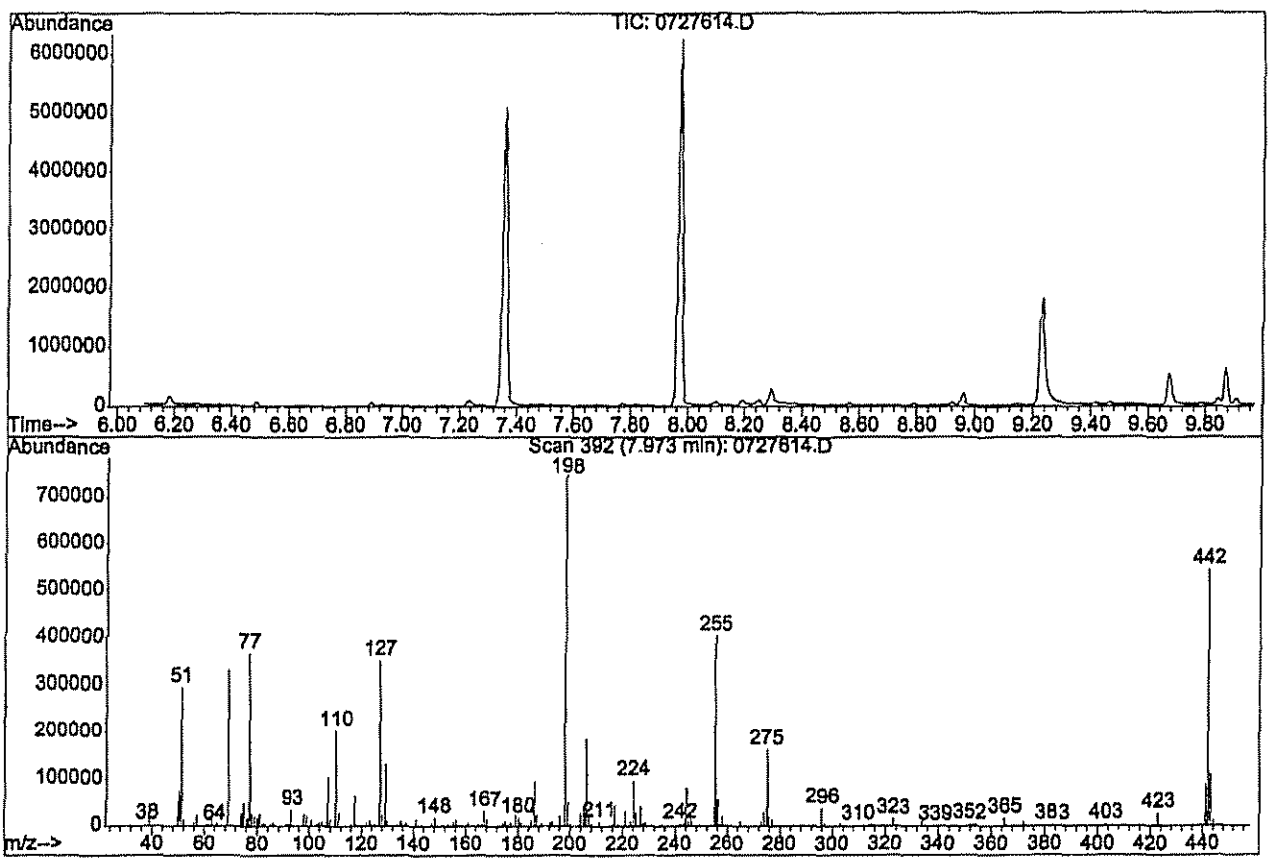
Date: 07/21/05

Instrument: MSD6

File: 0721601.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :



Spectrum Information: Scan 392

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	295680	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.7	333760	PASS
70	69	0.00	2	0.5	1569	PASS
127	198	40	60	47.2	352192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	746560	PASS
199	198	5	9	6.8	50592	PASS
275	198	10	30	21.8	162624	PASS
365	198	1	100	2.2	16416	PASS
441	443	0.01	100	80.3	88088	PASS
442	198	40	100	73.0	544704	PASS
443	442	17	23	20.1	109704	PASS

0727614.D DFTPP.M Tue Aug 02 08:48:39 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Pentachlorophenol	7.36	TIC	5963561	3.72	100
2) Benzidine	9.23	TIC	2625764	2.89	100
3) DDT	10.25	TIC	7443605	13.93	100
4) DDD	9.87	TIC	566028	110.14	100
5) DDE	9.46	TIC	39478m	2.04	

(#) = qualifier out of range (m) = manual integration

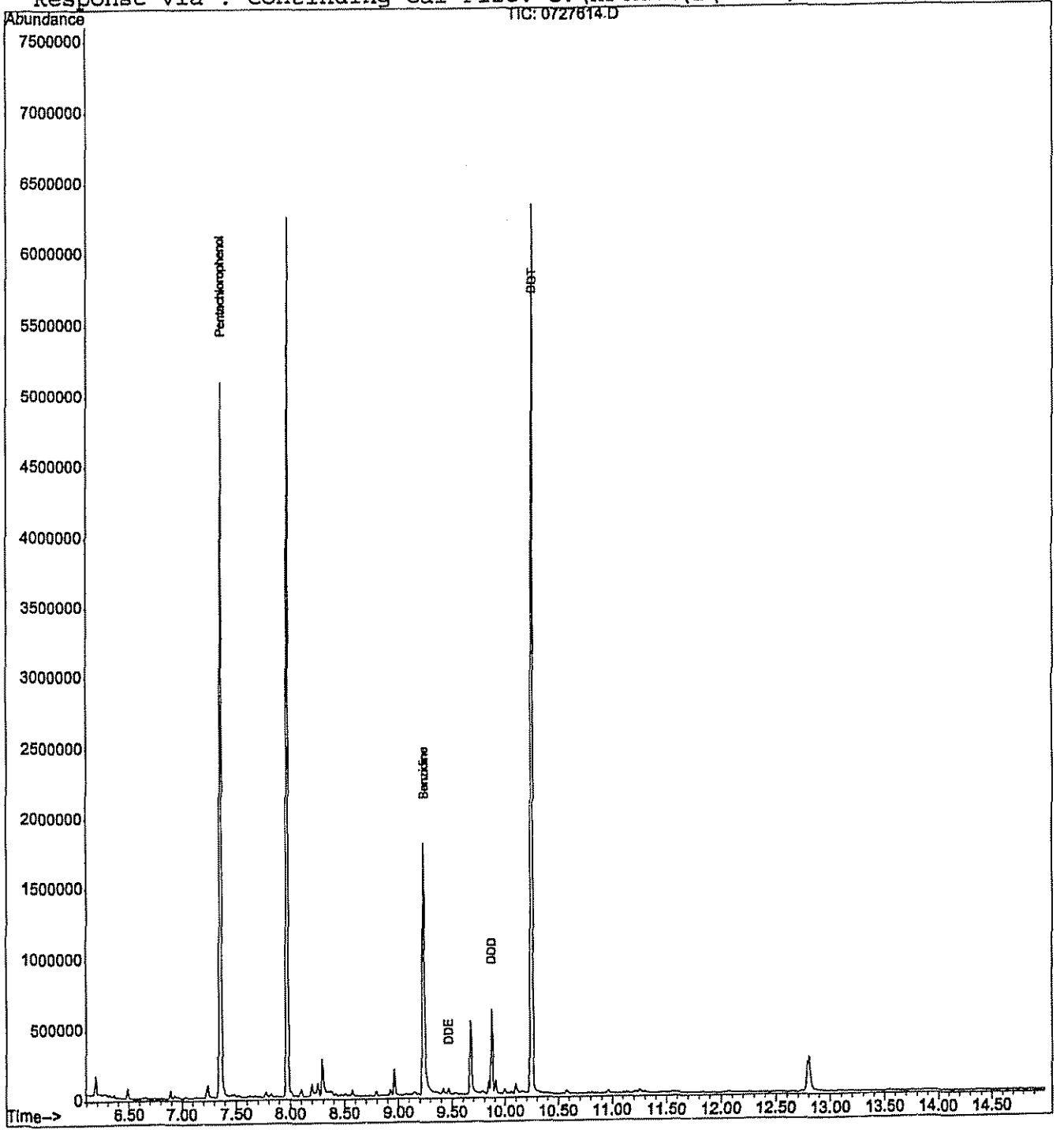
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D
Acq On : 27 Jul 2005 4:35 pm
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: DFTPP.RES

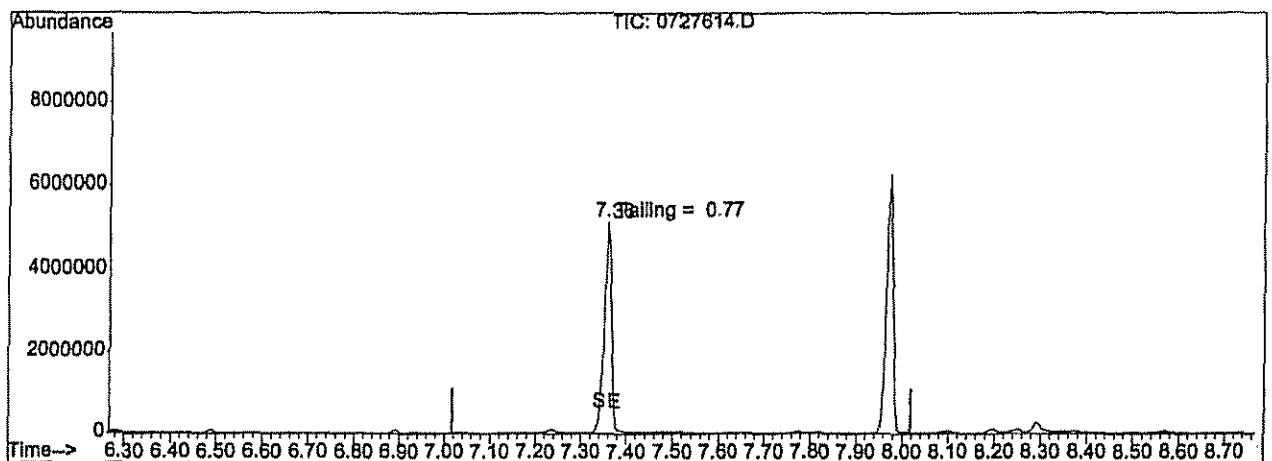
Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

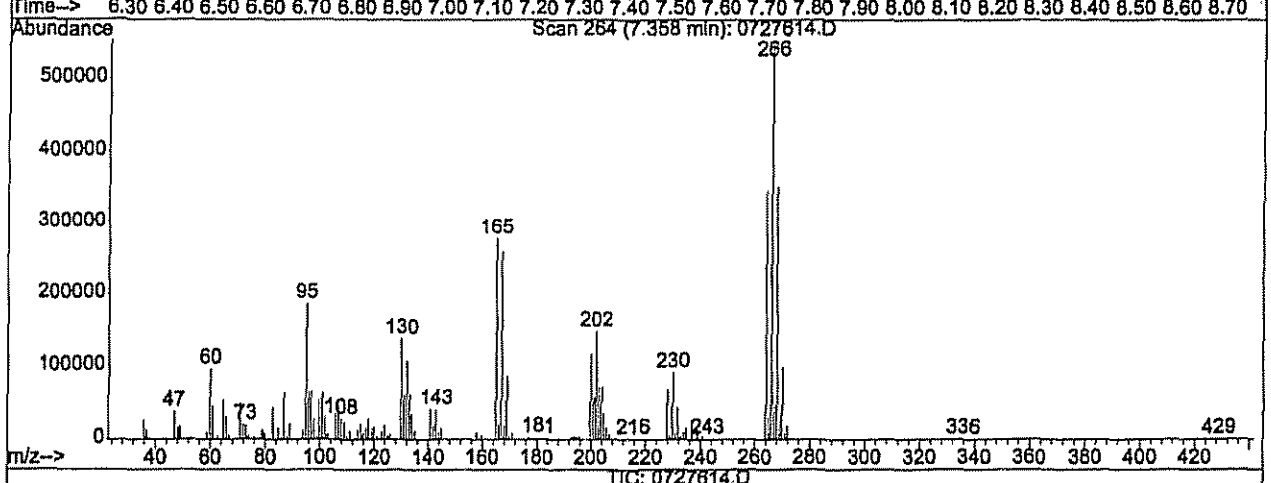


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

7.36min 3.72

response 5963561

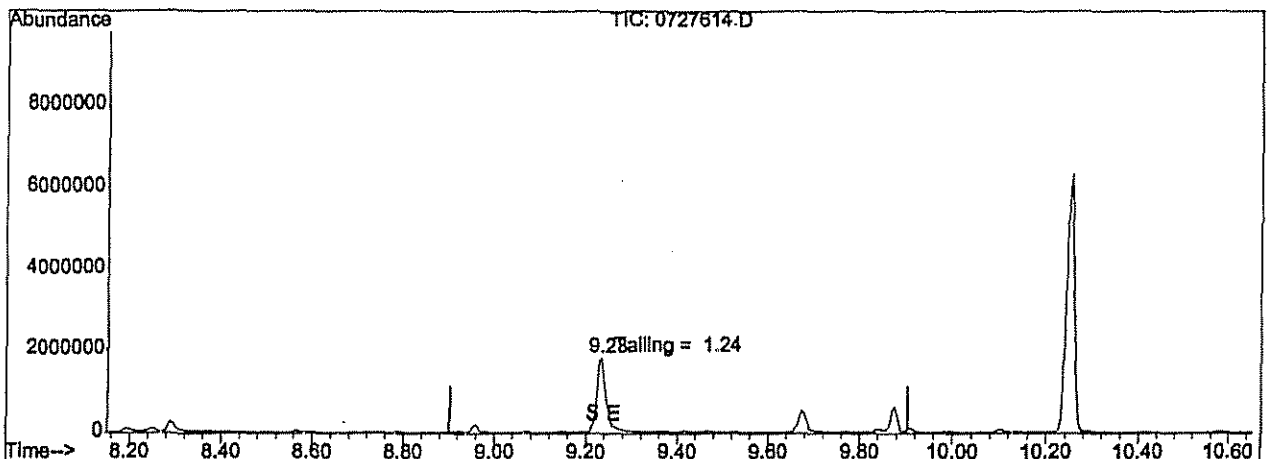
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

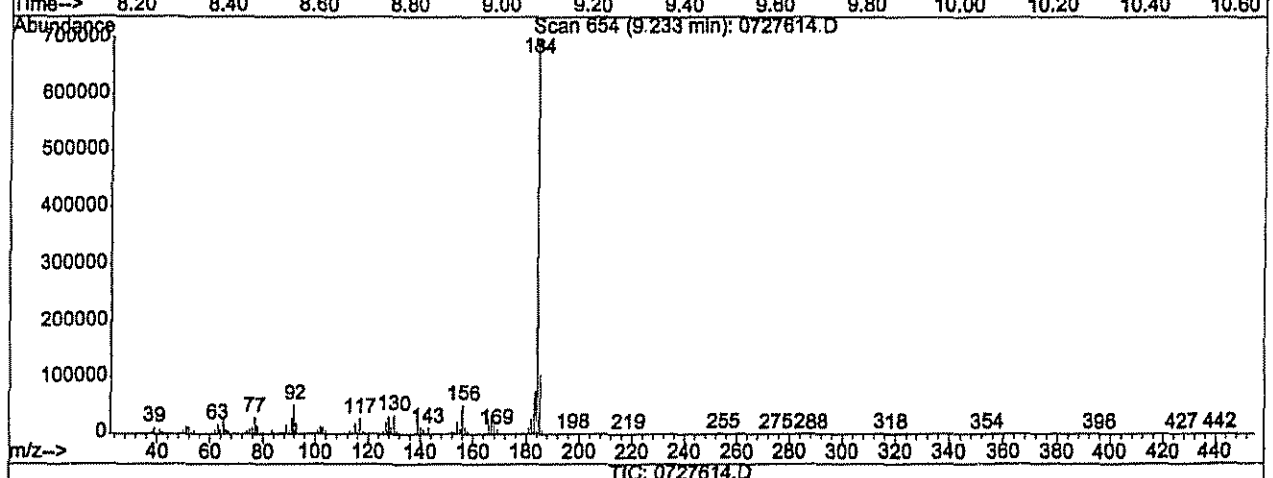
0727614.D DFTPP.M Tue Aug 02 08:49:25 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072705\0727614.D Vial: 1
Acq On : 27 Jul 2005 4:35 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 17:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0727614.D

(2) Benzidine

9.23min 2.89

response 2625764

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0727614.D DFTPP.M Tue Aug 02 08:49:34 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	7443605
	DDD	566028
	DDE	39478
	% Breakdown =	**7.52%**

Date: 07/27/05

Instrument: MSD6

File: 0727614.d

625-BN Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD6
Method ; 8270.M
Matrix ; NA
Cal. Date ; 21 Jul 2005 1:16 pm
Last Modified ; Thu Jul 21 13:47:19 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\HPCHEM\1\DATA\6072105\0721609.D
24 ; C:\HPCHEM\1\DATA\6072105\0721608.D
12 ; C:\HPCHEM\1\DATA\6072105\0721607.D
8 ; C:\HPCHEM\1\DATA\6072105\0721606.D
6 ; C:\HPCHEM\1\DATA\6072105\0721605.D
4 ; C:\HPCHEM\1\DATA\6072105\0721604.D
2 ; C:\HPCHEM\1\DATA\6072105\0721603.D
1 ; C:\HPCHEM\1\DATA\6072105\0721602.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	48.0	24.0	12.0	8.0	6.0	4.0	2.0	1.0		
Pyridine		1.078	0.948	1.059	0.949	0.956	0.573	0.743	0.901	20.092
N-Nitrosodimethylamine	0.648	0.688	0.696	0.628	0.671	0.661	0.585	0.662	0.655	5.409
Phenol	1.600	1.765	1.723	1.750	1.848	1.798	1.838	1.912	1.779	5.311
Bis(2-chloroethyl)ether	1.332	1.467	1.506	1.365	1.382	1.350	1.352	1.513	1.409	5.300
2-Chlorophenol	1.263	1.339	1.332	1.307	1.406	1.361	1.408	1.449	1.358	4.482
Benzyl Alcohol	0.922	0.969	0.953	0.912	0.977	0.934	0.947	1.013	0.953	3.425
1,3-Dichlorobenzene	1.243	1.297	1.310	1.289	1.347	1.339	1.352	1.392	1.321	3.475
1,4-Dichlorobenzene	1.278	1.336	1.325	1.317	1.385	1.389	1.363	1.409	1.350	3.255
1,2-Dichlorobenzene	1.128	1.186	1.191	1.189	1.263	1.252	1.296	1.308	1.227	5.122
2-Methylphenol	1.035	1.103	1.084	1.071	1.146	1.122	1.136	1.224	1.115	5.121
3-, 4-Methylphenol	1.530	1.628	1.581	1.559	1.639	1.615	1.638	1.789	1.622	4.814
Bis(2-chloroisopropyl)ether	1.476	1.603	1.588	1.554	1.653	1.650	1.628	1.760	1.614	5.128
N-Nitrosodi-n-propylamine	0.798	0.860	0.828	0.794	0.879	0.835	0.875	0.910	0.847	4.823
Hexachloroethane	0.505	0.535	0.519	0.502	0.530	0.513	0.523	0.583	0.526	4.833
2-Fluorophenol (surr)	0.994	1.046	1.038	1.017	1.015	1.014	0.989	0.972	1.011	2.430
Phenol-d6 (surr)	1.501	1.606	1.581	1.561	1.631	1.576	1.616	1.718	1.599	3.923
Nitrobenzene	0.356	0.375	0.382	0.357	0.393	0.377	0.370	0.408	0.377	4.700
Isophorone	0.531	0.560	0.573	0.540	0.589	0.564	0.570	0.613	0.568	4.583
2-Nitrophenol	0.165	0.175	0.179	0.170	0.189	0.196	0.202	0.207	0.185	8.454
2,4-Dimethylphenol	0.249	0.257	0.264	0.255	0.263	0.260	0.259	0.285	0.262	3.981
Benzoic Acid		0.179	0.171	0.146	0.148	0.137	0.117	0.166	0.152	14.177
Bis(2-chloroethoxy)methane	0.350	0.361	0.374	0.357	0.393	0.386	0.386	0.422	0.379	6.198
2,4-Dichlorophenol	0.257	0.266	0.277	0.260	0.289	0.271	0.269	0.304	0.274	5.749
1,2,4-Trichlorobenzene	0.261	0.271	0.281	0.271	0.295	0.283	0.303	0.323	0.286	7.071
Naphthalene	0.812	0.837	0.866	0.826	0.910	0.880	0.904	0.954	0.874	5.525
4-Chloroaniline	0.141	0.146	0.101	0.110		0.142	0.184	0.167	0.142	20.548
Hexachlorobutadiene	0.162	0.171	0.180	0.164	0.184	0.184	0.175	0.192	0.176	5.957
4-Chloro-3-methylphenol	0.312	0.326	0.326	0.300	0.328	0.314	0.310	0.347	0.320	4.485
2-Methylnaphthalene	0.602	0.612	0.630	0.601	0.656	0.644	0.644	0.700	0.636	5.204
Nitrobenzene-d5 (surr)	0.132	0.138	0.142	0.132	0.149	0.141	0.140	0.152	0.141	5.129
Hexachlorocyclopentadiene	0.129	0.106	0.118	0.091	0.111	0.098	0.088	0.148	0.111	18.228
2,4,6-Trichlorophenol	0.347	0.348	0.362	0.341	0.374	0.358	0.347	0.405	0.360	5.856
2,4,5-Trichlorophenol	0.356	0.356	0.373	0.340	0.375	0.364	0.354	0.405	0.365	5.332
2-Chloronaphthalene	0.925	0.932	0.998	0.929	1.011	0.982	1.023	1.114	0.989	6.445
2-Nitroaniline	0.331	0.342	0.334	0.312	0.350	0.333	0.329	0.365	0.337	4.688
3-Nitroaniline	0.087	0.051	0.037	0.040		0.063	0.069	0.097	0.063	35.837
1-Methylnaphthalene	0.923	0.918	0.981	0.938	1.019	0.981	1.012	1.098	0.984	6.116
Dimethylphthalate	1.083	1.092	1.147	1.085	1.187	1.131	1.142	1.283	1.144	5.841
Acenaphthylene	1.009	1.207	1.292	1.246	1.350	1.318	1.357	1.517	1.287	11.289
2,6-Dinitrotoluene	0.241	0.245	0.254	0.236	0.253	0.237	0.226	0.278	0.246	6.446
Acenaphthene	0.843	0.841	0.877	0.835	0.912	0.891	0.896	0.976	0.884	5.303
2,4-Dinitrophenol	0.135	0.126	0.132	0.112	0.113	0.103	0.080	0.115	0.115	15.176
4-Nitrophenol	0.165	0.155	0.156	0.132	0.147	0.136	0.115	0.158	0.146	11.424
Dibenzofuran	1.353	1.356	1.420	1.340	1.457	1.429	1.455	1.593	1.425	5.783
2,4-Dinitrotoluene	0.303	0.298	0.304	0.289	0.303	0.311	0.280	0.347	0.304	6.467
Fluorene	1.019	1.011	1.068	0.994	1.101	1.073	1.053	1.128	1.056	4.369
Diethylphthalate	0.991	1.006	1.067	0.993	1.087	1.057	1.032	1.138	1.046	4.908
4-Chlorophenyl phenyl ether	0.512	0.517	0.552	0.533	0.577	0.559	0.570	0.600	0.553	5.523
4-Nitroaniline		0.099	0.116	0.115	0.132	0.124	0.099	0.133	0.117	12.025
2-Fluorobiphenyl (surr)	1.047	1.047	1.116	1.057	1.171	1.142	1.149	1.297	1.128	7.425
2,4,6-Tribromophenol (surr)	0.126	0.119	0.125	0.114	0.115	0.113	0.111	0.119	0.118	4.649
4,6-Dinitro-2-methylphenol	0.136	0.131	0.135	0.118	0.122	0.113	0.088	0.131	0.122	13.117
Diphenylamine		0.332	0.339	0.376	0.459	0.436	0.483	0.432	0.408	14.554
4-bromophenyl phenyl ether	0.196	0.204	0.214	0.208	0.228	0.227	0.241	0.235	0.219	7.316
Hexachlorobenzene	0.192	0.199	0.207	0.202	0.225	0.209	0.212	0.231	0.210	6.256
Pentachlorophenol	0.144	0.142	0.148	0.135	0.144	0.135	0.112	0.148	0.139	8.511
Phenanthrene	0.918	0.947	0.981	0.954	1.038	1.006	1.026	1.093	0.995	5.708

Carbazole				0.351	0.429	0.353	0.510	0.377	0.404	16.543
Anthracene	0.856	0.875	0.914	0.879	0.971	0.910	0.938	1.026	0.921	6.071
Azobenzene	0.781	0.830	0.857	0.820	0.910	0.876	0.907	0.937	0.865	6.107
Di-n-Butylphthalate	1.108	1.142	1.187	1.175	1.253	1.217	1.269	1.338	1.211	6.126
Fluoranthene	0.976	0.971	1.026	0.959	1.059	1.000	1.005	1.059	1.007	3.841
alpha-BHC	0.134	0.148	0.157	0.152		0.159	0.165	0.180	0.156	9.112
beta-BHC	0.115	0.120	0.128	0.120		0.128	0.124	0.133	0.124	4.940
gamma-BHC	0.118	0.125	0.131	0.126		0.130	0.124	0.144	0.128	6.426
delta-BHC	0.108	0.113	0.118	0.114		0.114	0.114	0.127	0.116	5.252
Heptachlor	0.141	0.150	0.151	0.146		0.146	0.148	0.166	0.150	5.262
Aldrin	0.144	0.153	0.158	0.159		0.163	0.169	0.177	0.160	6.625
Heptachlor Epoxide	0.054	0.053	0.057	0.055		0.055	0.055	0.054	0.055	2.196
Endosulfan I	0.034	0.039	0.042	0.043		0.041	0.043	0.042	0.040	7.616
4,4'-DDE	0.226	0.228	0.240	0.228		0.235	0.224	0.255	0.234	4.580
Dieldrin	0.184	0.190	0.201	0.198		0.198	0.215	0.213	0.200	5.672
Endrin	0.037	0.038	0.036	0.032		0.032	0.028	0.037	0.034	10.283
Endosulfan II	Not Calibrated									
4,4'-DDD	0.367	0.397	0.425	0.402		0.421	0.420	0.450	0.412	6.376
Endosulfan Sulfate	0.037	0.052	0.054	0.052		0.052	0.050	0.060	0.051	13.251
4,4'-DDT	0.290	0.321	0.320	0.301		0.312	0.303	0.377	0.318	8.987
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.037	0.043	0.047	0.044		0.044	0.038	0.045	0.042	8.879
Methoxychlor	0.561	0.669	0.722	0.695		0.676	0.665	0.807	0.685	10.721
Pyrene	1.557	1.410	1.357	1.304	1.436	1.442	1.460	1.501	1.433	5.510
Butylbenzylphthalate	0.684	0.717	0.695	0.658	0.722	0.682	0.697	0.745	0.700	3.909
Benzo[a]anthracene	1.236	1.249	1.258	1.204	1.306	1.255	1.235	1.349	1.261	3.606
3,3'-Dichlorobenzidine	0.196	0.186	0.172	0.182	0.210	0.190	0.204	0.200	0.193	6.465
Chrysene	1.008	1.028	1.045	1.016	1.081	1.040	1.034	1.097	1.044	2.944
Bis(2-ethylhexyl)phthalate	0.885	0.929	0.910	0.875	0.972	0.936	0.977	1.000	0.935	4.810
4-Terphenyl-d14 (surr)	1.096	0.991	0.949	0.906	0.981	0.984	0.977	1.040	0.991	5.763
Di-n-octylphthalate	2.234	2.457	2.529	2.224	2.371	2.184	2.209	2.363	2.322	5.506
Benzo[b]fluoranthene	1.334	1.374	1.434	1.300	1.403	1.342	1.296	1.359	1.355	3.538
Benzo[k]fluoranthene	1.141	1.287	1.375	1.260	1.356	1.278	1.239	1.335	1.284	5.838
Benzo[a]pyrene	1.023	1.078	1.099	0.984	1.080	1.009	1.019	1.076	1.046	4.023
Indeno(1,2,3-c,d)pyrene	0.750	0.639	0.614	0.569	0.576	0.535	0.579	0.600	0.608	10.797
Dibenzo[a,h]anthracene	0.708	0.607	0.543	0.502	0.528	0.471	0.492	0.560	0.551	13.807
Benzo[g,h,i]perylene	0.752	0.656	0.645	0.612	0.637	0.564	0.618	0.629	0.639	8.375

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	466977	4.00 ug/mL	-0.14
18) Naphthalene-D8	8.95	136	1899395	4.00 ug/mL	-0.14
33) Acenaphthene-d10	11.73	164	1109965	4.00 ug/mL	-0.15
55) Phenanthrene-D10	14.12	188	1576803	4.00 ug/mL	-0.16
85) Chrysene-D12	18.36	240	1112033	4.00 ug/mL	-0.17
93) Perylene-D12	20.64	264	794965	4.00 ug/mL	-0.23
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.21	112	113527	0.96 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 9.60%	
17) Phenol-d6 (surr)	6.51	99	200613	1.08 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 10.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	72373	1.07 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 10.70%	
53) 2-Fluorobiphenyl (surr)	10.68	172	359779	1.16 ug/mL	-0.15
Spiked Amount 10.000			Recovery	= 11.60%	
54) 2,4,6-Tribromophenol (surr	13.00	330	33091	1.02 ug/mL	-0.16
Spiked Amount 10.000			Recovery	= 10.20%	
92) 4-Terphenyl-d14 (surr)	16.71	244	289214	1.04 ug/mL	-0.16
Spiked Amount 10.000			Recovery	= 10.40%	

Target Compounds					Qvalue
2) Pyridine	3.65	79	86705m	1.37 ug/mL	
3) N-Nitrosodimethylamine	3.61	74	77258	0.99 ug/mL	95
4) Phenol	6.53	94	223228	1.06 ug/mL	93
5) Bis(2-chloroethyl)ether	6.66	93	176654	1.08 ug/mL	99
6) 2-Chlorophenol	6.72	128	169202	1.10 ug/mL	96
7) Benzyl Alcohol	7.24	108	118260	1.10 ug/mL	87
8) 1,3-Dichlorobenzene	6.93	146	162466	1.07 ug/mL	96
9) 1,4-Dichlorobenzene	7.04	146	164444	1.05 ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	152759	1.08 ug/mL	96
11) 2-Methylphenol	7.41	107	142926	1.12 ug/mL	98
12) 3-, 4-Methylphenol	7.64	107	208904	1.13 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	205525	1.07 ug/mL	99
14) N-Nitrosodi-n-propylamine	7.65	70	106277	1.09 ug/mL	94
15) Hexachloroethane	7.77	117	68016	1.10 ug/mL	93
19) Nitrobenzene	7.88	77	193948	1.04 ug/mL	99
20) Isophorone	8.25	82	291295	1.05 ug/mL	98
21) 2-Nitrophenol	8.36	139	98468	1.13 ug/mL	92
22) 2,4-Dimethylphenol	8.46	122	135151	1.09 ug/mL	97
23) Benzoic Acid	8.58	122	79008	1.69 ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	200596	1.10 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D
Acq On : 21 Jul 2005 9:18 am
Sample : SVCAL1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	144582	1.15 ug/mL	95
26) 1,2,4-Trichlorobenzene	8.87	180	153529	1.15 ug/mL	97
27) Naphthalene	8.97	128	453179	1.09 ug/mL	99
28) 4-Chloroaniline	9.10	127	79275	1.87 ug/mL#	94
29) Hexachlorobutadiene	9.20	225	91405	1.09 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	164717	1.11 ug/mL	95
31) 2-Methylnaphthalene	10.07	142	332631	1.13 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	41015	1.86 ug/mL	99
35) 2,4,6-Trichlorophenol	10.53	196	112468	1.14 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	112388	1.10 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	309191	1.13 ug/mL	97
38) 2-Nitroaniline	11.02	65	101330	1.00 ug/mL	95
39) 3-Nitroaniline	11.72	138	26908	0.37 ug/mL#	85
40) 1-Methylnaphthalene	10.23	142	304730	1.12 ug/mL	97
41) Dimethylphthalate	11.36	163	355917	1.10 ug/mL	98
42) Acenaphthylene	11.50	152	420824	1.18 ug/mL	98
43) 2,6-Dinitrotoluene	11.43	165	77244	1.08 ug/mL	97
44) Acenaphthene	11.78	153	270756	1.11 ug/mL	98
45) 2,4-Dinitrophenol	11.90	184	31876	0.77 ug/mL#	88
46) 4-Nitrophenol	11.98	109	43919	0.94 ug/mL	94
47) Dibenzofuran	12.08	168	442181	1.11 ug/mL	98
48) 2,4-Dinitrotoluene	12.08	165	96252	1.07 ug/mL	94
49) Fluorene	12.61	166	313059	1.06 ug/mL	97
50) Diethylphthalate	12.50	149	315868	1.05 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	166504	1.09 ug/mL	96
52) 4-Nitroaniline	12.66	138	36823	0.95 ug/mL#	87
56) 4,6-Dinitro-2-methylphenol	12.72	198	51629	0.90 ug/mL	94
57) Diphenylamine	12.83	169	170462	1.04 ug/mL	93
58) 4-bromophenyl phenyl ether	13.42	248	92717	1.16 ug/mL	98
59) Hexachlorobenzene	13.50	284	91138	1.16 ug/mL	92
60) Pentachlorophenol	13.82	266	58424	1.01 ug/mL	91
61) Phenanthrene	14.15	178	430827	1.10 ug/mL	98
62) Carbazole	14.50	167	148509	0.52 ug/mL#	92
63) Anthracene	14.22	178	404305	1.11 ug/mL	99
64) Azobenzene	12.89	77	369480	1.07 ug/mL	97
65) Di-n-Butylphthalate	15.14	149	527366	1.13 ug/mL	97
66) Fluoranthene	16.05	202	417643	1.02 ug/mL	98
67) alpha-BHC	13.43	183	70831	1.14 ug/mL	96
68) beta-BHC	13.77	181	52469	1.01 ug/mL	99
69) gamma-BHC	13.91	183	56840	1.07 ug/mL	94
70) delta-BHC	14.27	183	50175	1.00 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

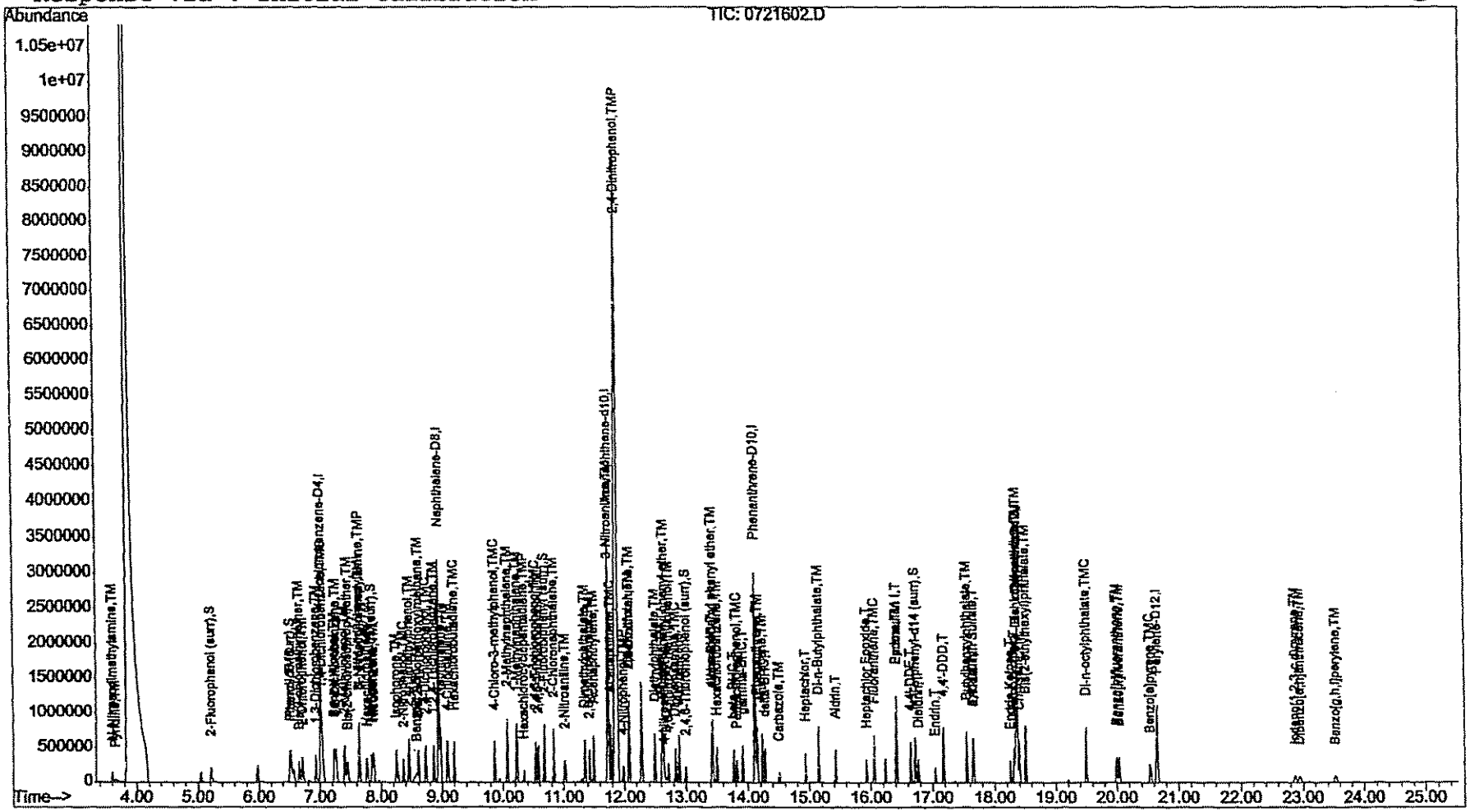
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	65538	1.11 ug/mL	97
72)	Aldrin	15.42	66	69627	1.02 ug/mL	92
73)	Heptachlor Epoxide	15.93	353	21321	1.03 ug/mL	98
74)	Endosulfan I	16.42	195	16419	0.96 ug/mL#	67
75)	4,4'-DDE	16.64	246	100530	1.04 ug/mL	98
76)	Dieldrin	16.76	79	83921	0.96 ug/mL	99
77)	Endrin	17.04	263	14470	0.96 ug/mL	98
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.17	235	177364	1.10 ug/mL#	96
80)	Endosulfan Sulfate	17.64	272	23555	1.11 ug/mL	97
81)	4,4'-DDT	17.65	235	148802	1.19 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	17604	1.13 ug/mL	98
84)	Methoxychlor	18.31	227	318092	1.29 ug/mL#	1
86)	Pyrene	16.41	202	417290	1.00 ug/mL	98
87)	Butylbenzylphthalate	17.54	149	207109	1.05 ug/mL	97
88)	Benzo[a]anthracene	18.34	228	375040	1.25 ug/mL	97
89)	3,3'-Dichlorobenzidine	18.34	252	55497	3.07 ug/mL	94
90)	Chrysene	18.40	228	304945	1.04 ug/mL	97
91)	Bis(2-ethylhexyl)phthalate	18.50	149	277881	1.09 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	469566	1.08 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	270080	1.12 ug/mL	100
96)	Benzo[k]fluoranthene	20.04	252	265271	0.98 ug/mL	97
97)	Benzo[a]pyrene	20.54	252	213913	1.12 ug/mL	95
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	119284m	3.38 ug/mL	
99)	Dibenzo[a,h]anthracene	22.95	278	111382	2.90 ug/mL	97
100)	Benzo[g,h,i]perylene	23.53	276	125079	1.95 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

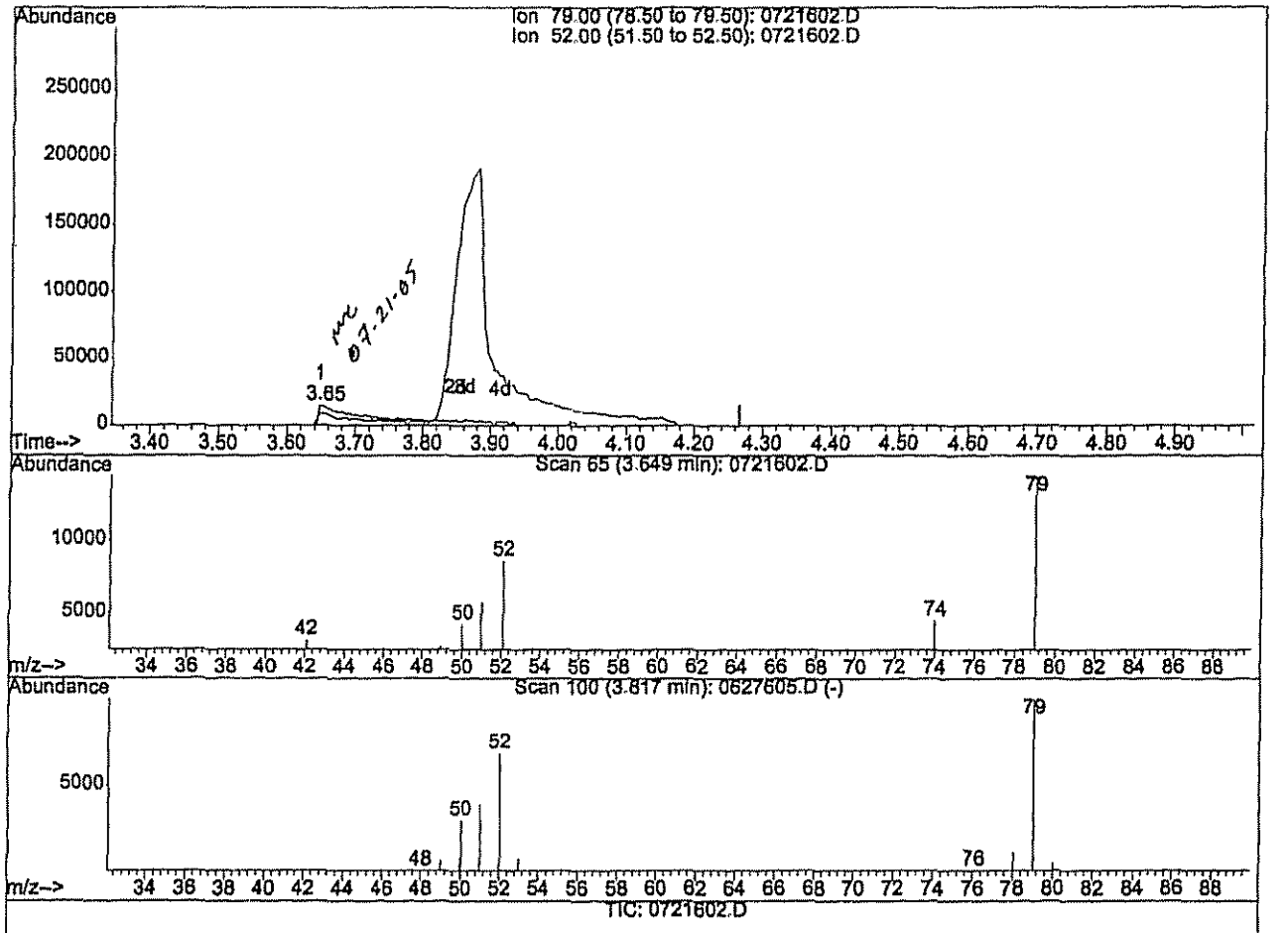
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.65min 1.37ug/mL m

response 86705

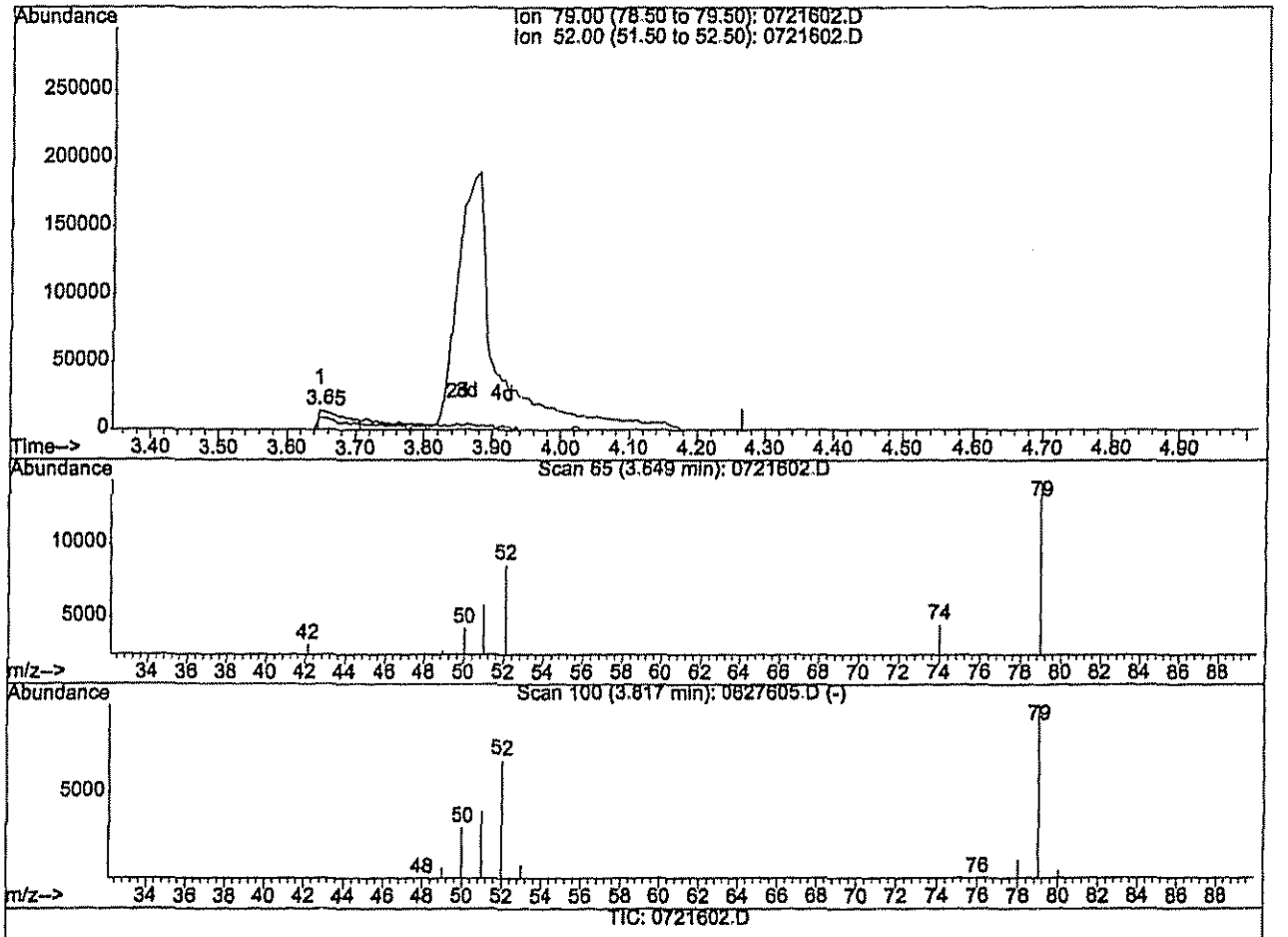
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	22.98#
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:13:51 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 9:43 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.65min 0.93ug/mL

response 37944

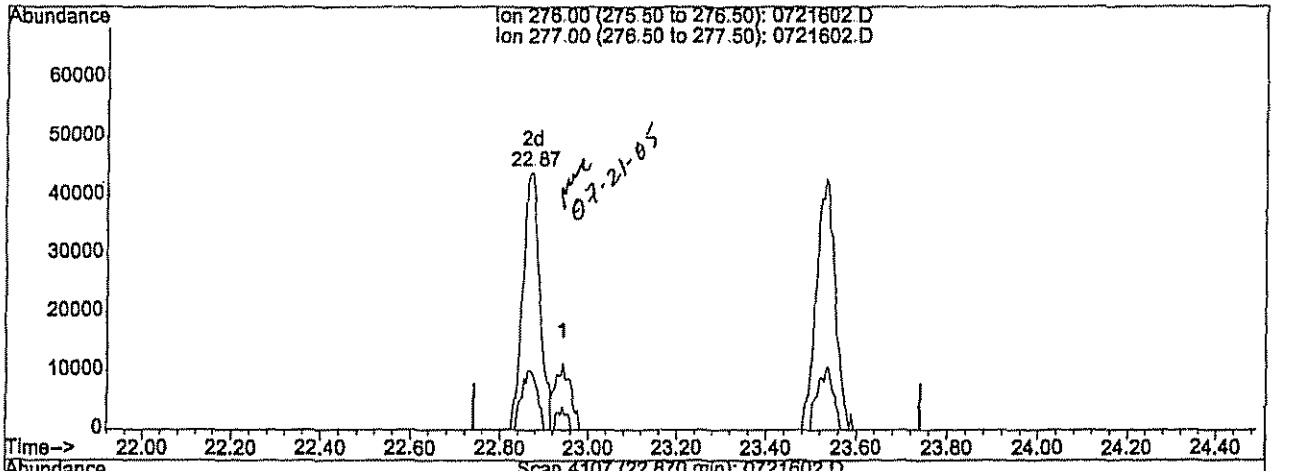
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	52.51
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:13:46 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.87min 3.38ug/mL m

response 119264

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	22.10
0.00	0.00	0.00
0.00	0.00	0.00

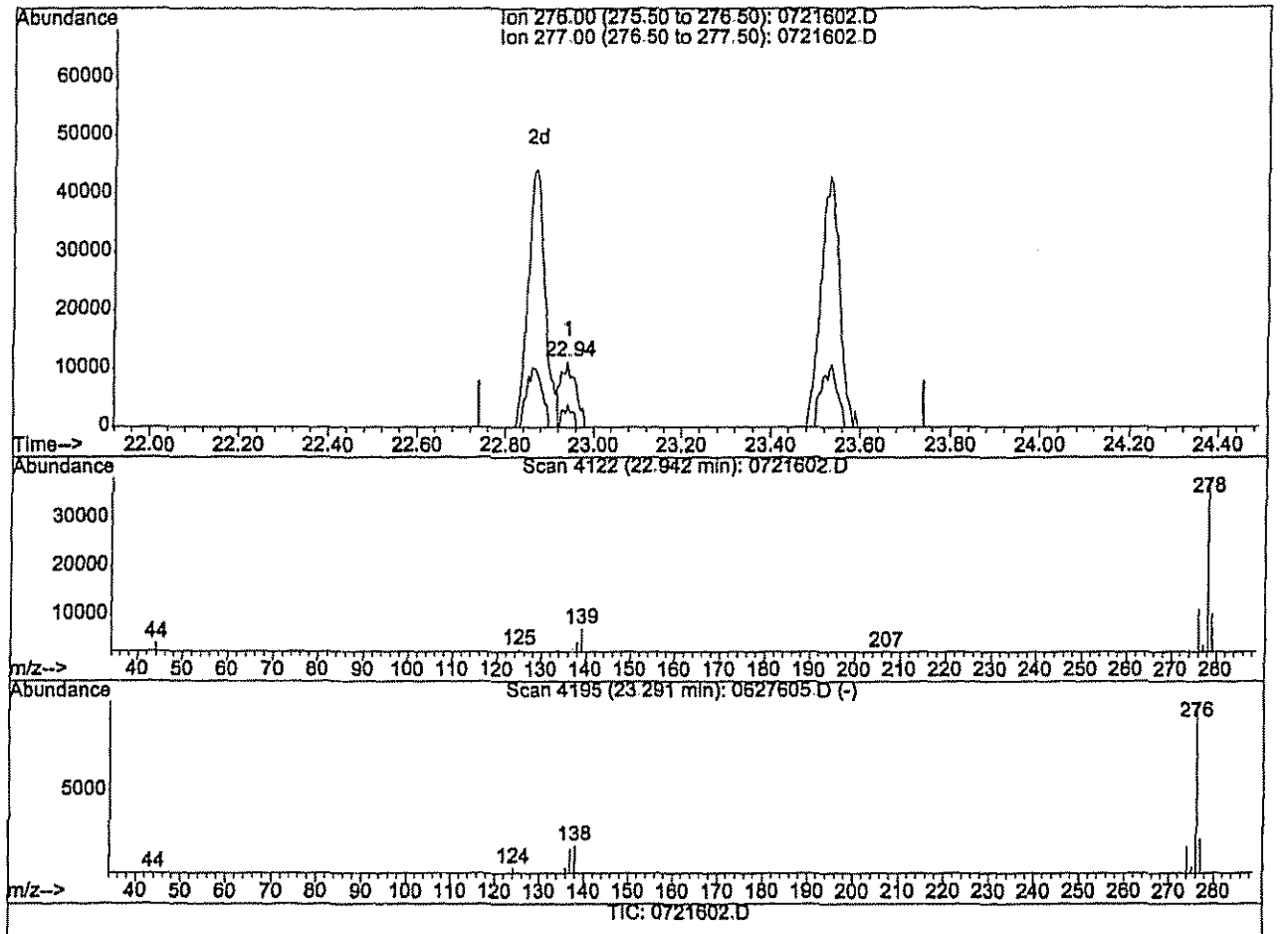
0721602.D 8270.M Thu Jul 21 11:14:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D
Acq On : 21 Jul 2005 9:18 am
Sample : SVCAL1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.94min 2.72ug/mL

response 25575

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	35.11#
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:14:42 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mu 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	137595	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	576094	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	335187	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438153	4.00	ug/mL	0.00
85) Chrysene-D12	18.35	240	303508	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	219438	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	68061m	2.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	20.30%	
17) Phenol-d6 (surr)	6.51	99	111193	1.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	40243	1.83	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.30%	
53) 2-Fluorobiphenyl (surr)	10.68	172	192629	1.77	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	17.70%	
54) 2,4,6-Tribromophenol (surr	12.99	330	18566	1.86	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.60%	
92) 4-Terphenyl-d14 (surr)	16.71	244	148246	1.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.80%	

Target Compounds						Qvalue
2) Pyridine	3.72	79	39414m	1.54	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	40235	1.77	ug/mL	93
4) Phenol	6.53	94	126451	1.92	ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	93002	1.79	ug/mL	99
6) 2-Chlorophenol	6.72	128	96861	1.94	ug/mL	98
7) Benzyl Alcohol	7.24	108	65176	1.87	ug/mL	89
8) 1,3-Dichlorobenzene	6.93	146	93006	1.94	ug/mL	95
9) 1,4-Dichlorobenzene	7.04	146	93767	1.94	ug/mL	94
10) 1,2-Dichlorobenzene	7.27	146	89177	1.98	ug/mL	99
11) 2-Methylphenol	7.41	107	78152	1.86	ug/mL	92
12) 3-, 4-Methylphenol	7.64	107	112715	1.83	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	112011	1.85	ug/mL#	97
14) N-Nitrosodi-n-propylamine	7.65	70	60174	1.92	ug/mL	98
15) Hexachloroethane	7.77	117	36008	1.80	ug/mL	90
19) Nitrobenzene	7.88	77	106445	1.81	ug/mL	96
20) Isophorone	8.25	82	164123	1.86	ug/mL	99
21) 2-Nitrophenol	8.37	139	58235	1.95	ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	74504	1.82	ug/mL	98
23) Benzoic Acid	8.56	122	33684	1.41	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	111285	1.83	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	77602	1.77 ug/mL	94
26) 1,2,4-Trichlorobenzene	8.86	180	87264	1.87 ug/mL	88
27) Naphthalene	8.97	128	260382	1.89 ug/mL	99
28) 4-Chloroaniline	9.08	127	52995	2.20 ug/mL	99
29) Hexachlorobutadiene	9.20	225	50458	1.82 ug/mL	96
30) 4-Chloro-3-methylphenol	9.86	107	89230	1.79 ug/mL	98
31) 2-Methylnaphthalene	10.07	142	185491	1.84 ug/mL	97
34) Hexachlorocyclopentadiene	10.34	237	14689	1.19 ug/mL#	77
35) 2,4,6-Trichlorophenol	10.53	196	58153	1.71 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	59288	1.75 ug/mL	99
37) 2-Chloronaphthalene	10.84	162	171426	1.84 ug/mL	99
38) 2-Nitroaniline	11.02	65	55097	1.80 ug/mL	92
39) 3-Nitroaniline	11.68	138	11590	1.43 ug/mL#	70
40) 1-Methylnaphthalene	10.23	142	169616	1.84 ug/mL	99
41) Dimethylphthalate	11.35	163	191473	1.78 ug/mL	98
42) Acenaphthylene	11.49	152	227444	1.79 ug/mL	100
43) 2,6-Dinitrotoluene	11.42	165	37854	1.62 ug/mL	96
44) Acenaphthene	11.78	153	150215	1.84 ug/mL	96
45) 2,4-Dinitrophenol	11.87	184	13480	1.40 ug/mL#	76
46) 4-Nitrophenol	11.98	109	19341	1.46 ug/mL	91
47) Dibenzofuran	12.07	168	243893	1.83 ug/mL	100
48) 2,4-Dinitrotoluene	12.07	165	47005	1.62 ug/mL#	92
49) Fluorene	12.61	166	176537	1.87 ug/mL	93
50) Diethylphthalate	12.49	149	172906	1.81 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	95598	1.90 ug/mL	89
52) 4-Nitroaniline	12.66	138	16535	1.49 ug/mL	98
56) 4,6-Dinitro-2-methylphenol	12.71	198	19251	1.34 ug/mL	89
57) Diphenylamine	12.83	169	105755	2.23 ug/mL	95
58) 4-bromophenyl phenyl ether	13.42	248	52790	2.05 ug/mL	85
59) Hexachlorobenzene	13.50	284	46374	1.83 ug/mL	99
60) Pentachlorophenol	13.82	266	24584	1.51 ug/mL	92
61) Phenanthrene	14.14	178	224722	1.88 ug/mL	97
62) Carbazole	14.50	167	111646	2.71 ug/mL	99
63) Anthracene	14.22	178	205571	1.83 ug/mL	98
64) Azobenzene	12.89	77	198718	1.94 ug/mL	99
65) Di-n-Butylphthalate	15.14	149	278077	1.90 ug/mL	99
66) Fluoranthene	16.05	202	220202	1.90 ug/mL	98
67) alpha-BHC	13.43	183	36102	1.83 ug/mL	95
68) beta-BHC	13.77	181	27151	1.86 ug/mL	94
69) gamma-BHC	13.91	183	27144	1.72 ug/mL	86
70) delta-BHC	14.27	183	24996	1.79 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

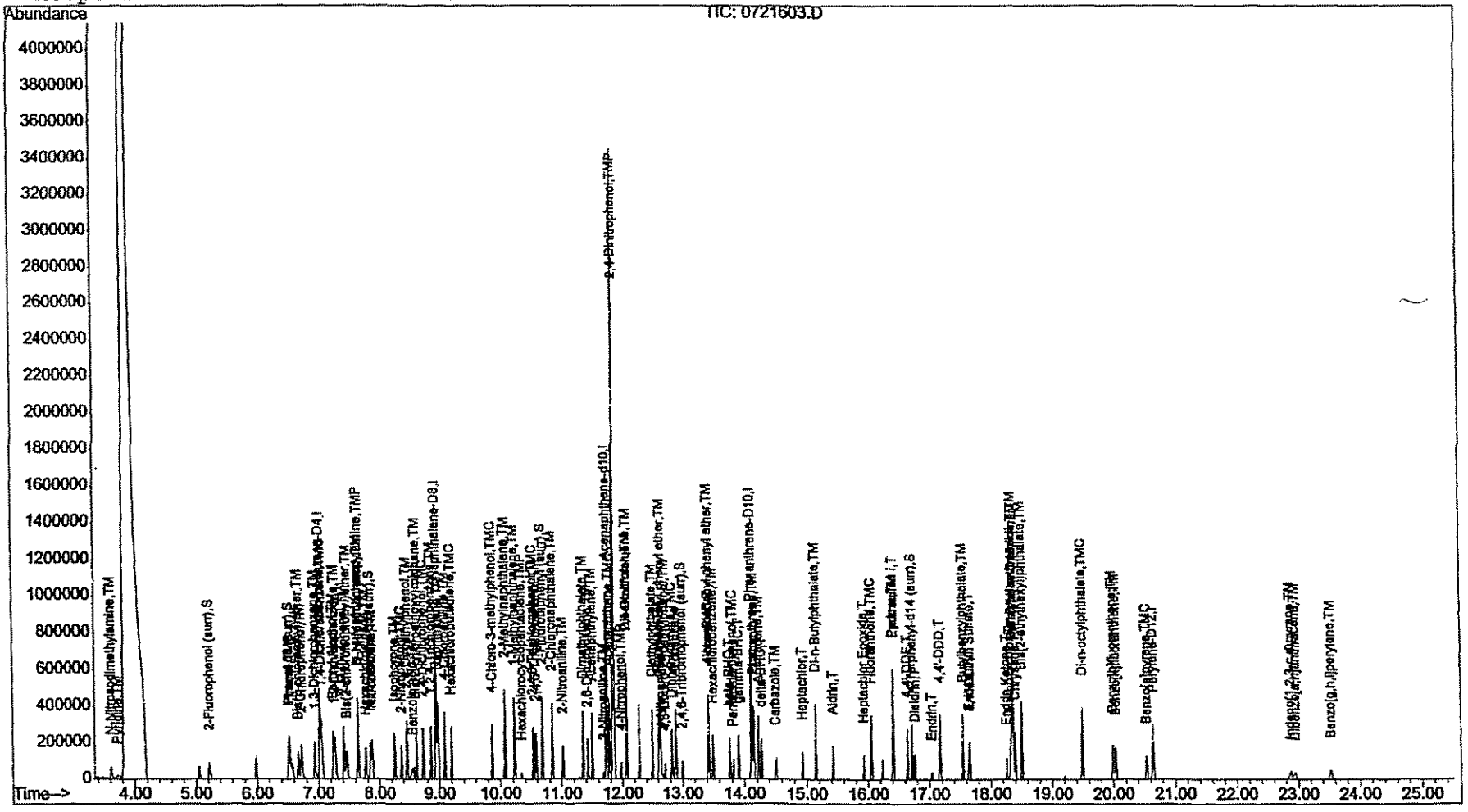
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	32349	1.78 ug/mL	98
72)	Aldrin	15.42	66	36921	1.91 ug/mL	95
73)	Heptachlor Epoxide	15.93	353	12141	2.05 ug/mL	93
74)	Endosulfan I	16.42	195	9346	2.05 ug/mL#	73
75)	4,4'-DDE	16.64	246	49144	1.76 ug/mL	92
76)	Dieldrin	16.76	79	47157	2.02 ug/mL	93
77)	Endrin	17.04	263	6194	1.54 ug/mL#	72
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.17	235	91992	1.87 ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	11062	1.69 ug/mL#	89
81)	4,4'-DDT	17.65	235	66412	1.61 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	8277	1.69 ug/mL#	79
84)	Methoxychlor	18.31	227	145590	1.65 ug/mL	90
86)	Pyrene	16.41	202	221497	1.94 ug/mL	99
87)	Butylbenzylphthalate	17.54	149	105786	1.87 ug/mL	100
88)	Benzo[a]anthracene	18.34	228	187389	1.83 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	30959	2.04 ug/mL	91
90)	Chrysene	18.39	228	156964	1.89 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	148303	1.96 ug/mL	96
94)	Di-n-octylphthalate	19.49	149	242403	1.87 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	142160	1.91 ug/mL	96
96)	Benzo[k]fluoranthene	20.04	252	135906	1.86 ug/mL	99
97)	Benzo[a]pyrene	20.53	252	111774	1.89 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	63568	1.93 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.94	278	54003	1.76 ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	67752	1.96 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

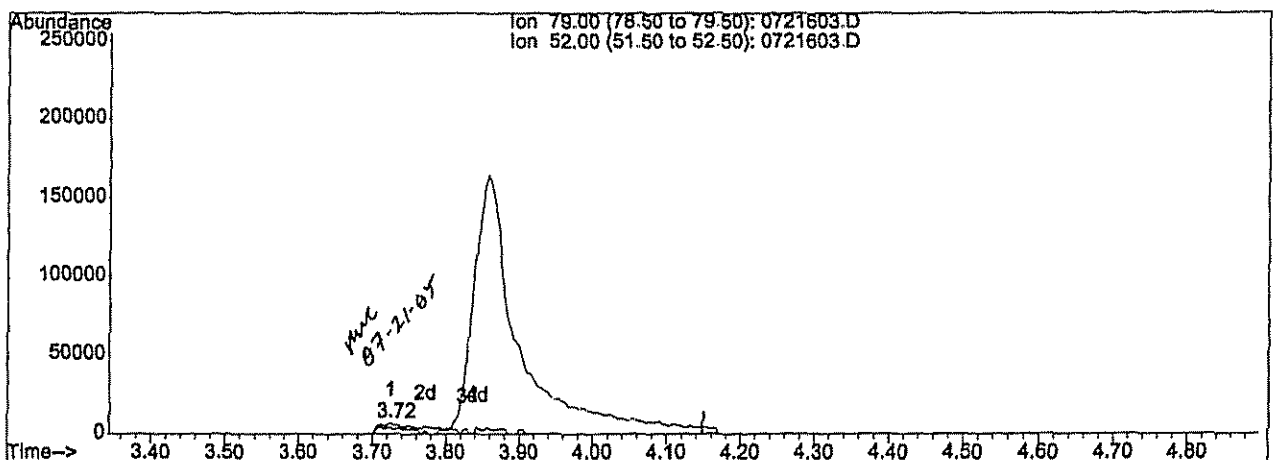
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

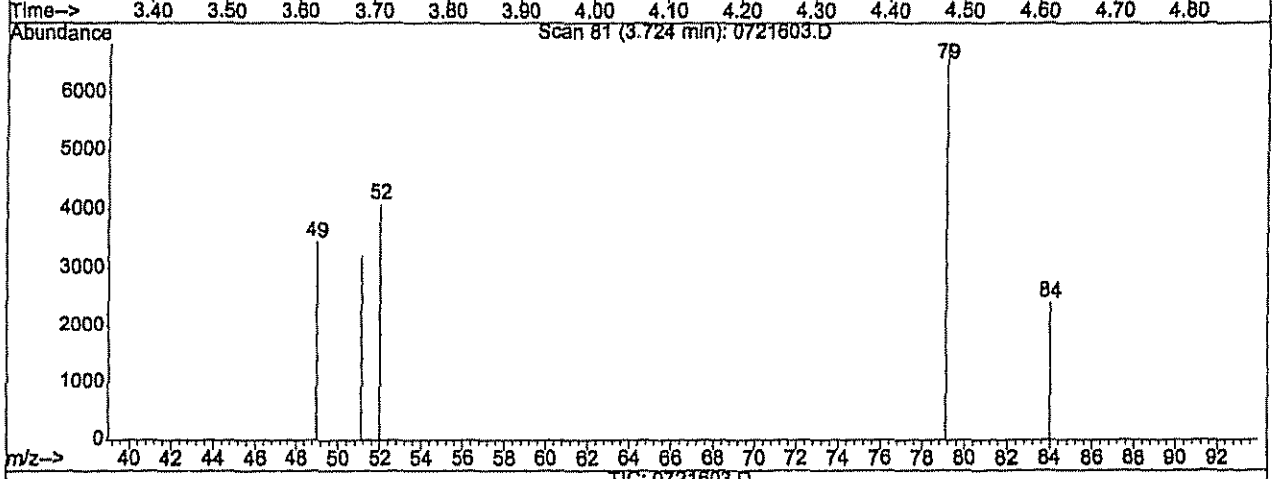


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.72min 1.54ug/mL m

response 39414

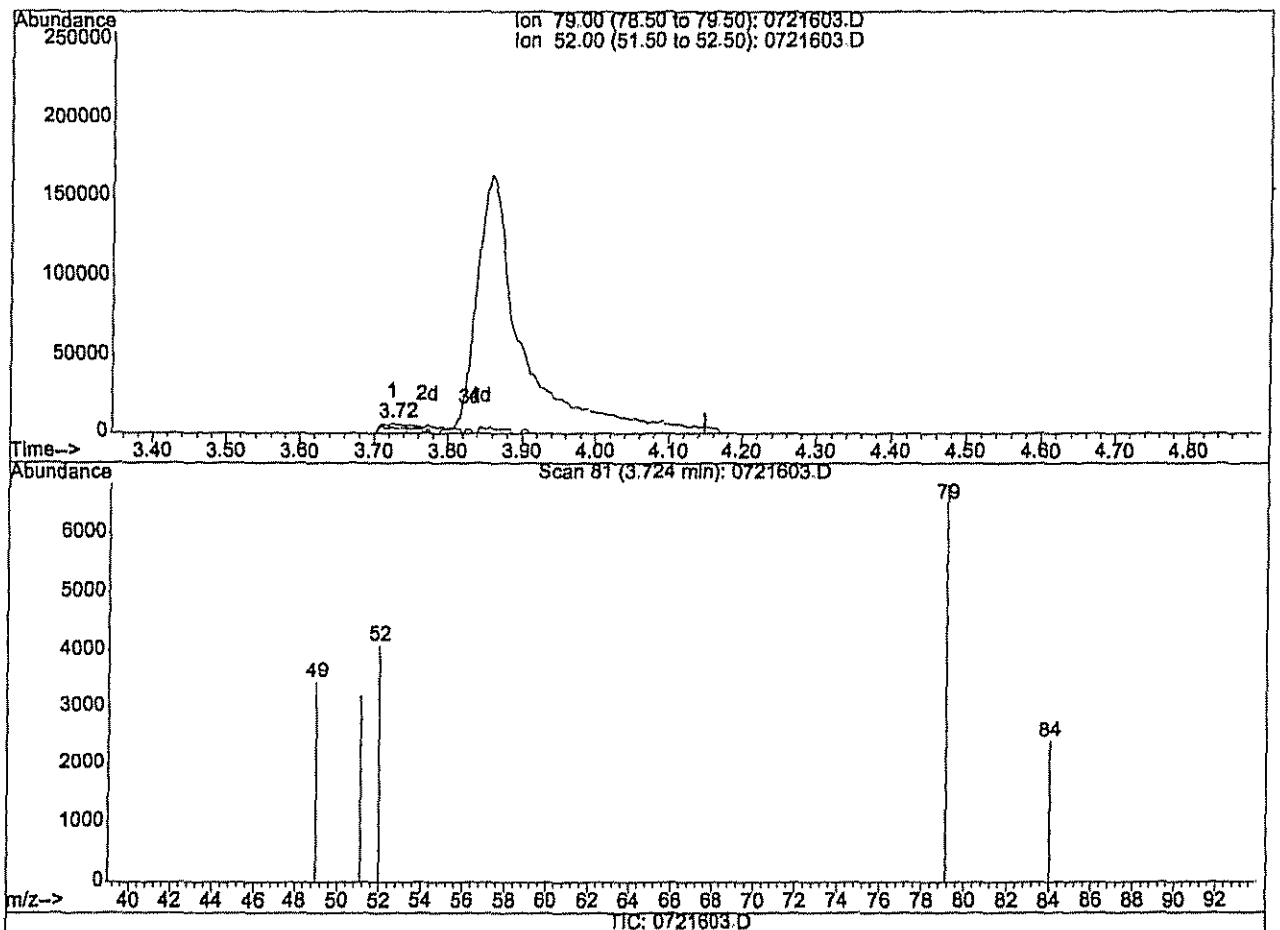
Ion	Exp%	Act%
79.00	100	100
52.00	23.00	10.35#
0.00	0.00	0.00
0.00	0.00	0.00

0721603.D 8270.M Thu Jul 21 11:16:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:15 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.72min 0.53ug/mL

response 13566

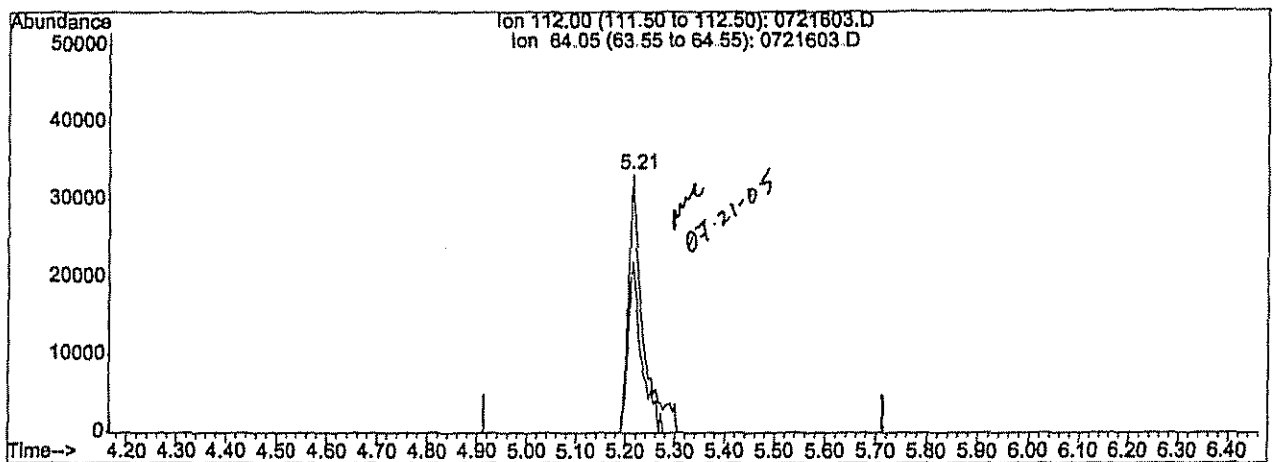
Ion	Exp%	Act%
79.00	100	100
52.00	23.00	30.06#
0.00	0.00	0.00
0.00	0.00	0.00

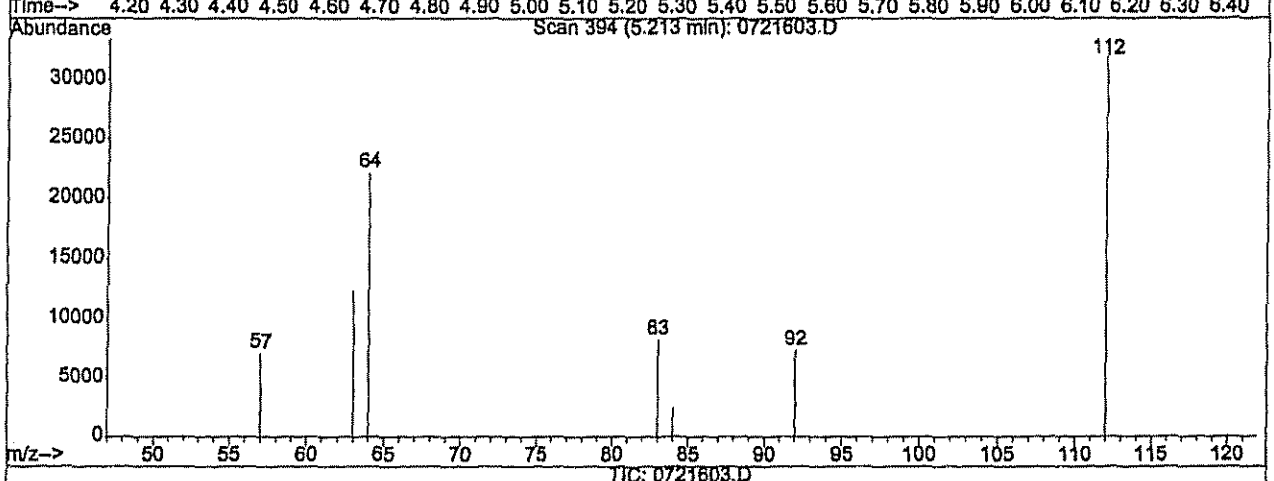
0721603.D 8270.M Thu Jul 21 11:15:59 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

5.21min 2.03ug/mL m

response 68061

Ion	Exp%	Act%
112.00	100	100
64.05	66.10	61.34
0.00	0.00	0.00
0.00	0.00	0.00

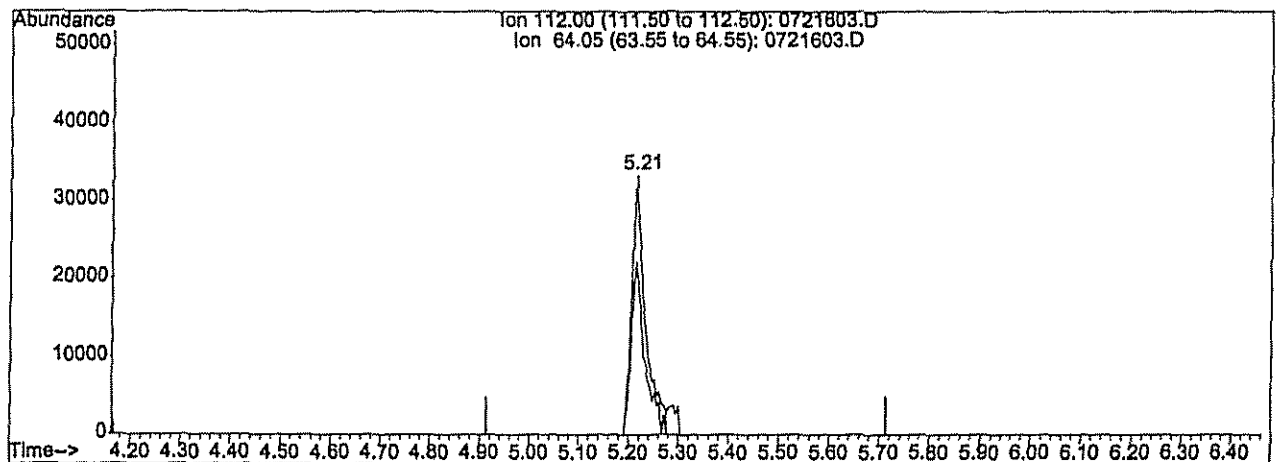
0721603.D 8270.M Thu Jul 21 11:16:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

5.21min 1.89ug/mL

response 63160

Ion	Exp%	Act%
112.00	100	100
64.05	66.10	66.10
0.00	0.00	0.00
0.00	0.00	0.00

0721603.D 8270.M Thu Jul 21 11:16:18 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	149568	4.00	ug/mL	0.00
18) Naphthalene-D8	8.94	136	605817	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	352040	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	487476	4.00	ug/mL	0.00
85) Chrysene-D12	18.35	240	338564	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	242659	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	151709m	4.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	41.40%	
17) Phenol-d6 (surr)	6.51	99	235734	3.78	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	37.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	85170	3.85	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	38.50%	
53) 2-Fluorobiphenyl (surr)	10.68	172	401970	3.73	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	37.30%	
54) 2,4,6-Tribromophenol (surr	13.00	330	39788	3.93	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	39.30%	
92) 4-Terphenyl-d14 (surr)	16.71	244	333103	3.90	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	39.00%	
Target Compounds						Qvalue
2) Pyridine	3.63	79	142950m	5.81	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	98884	4.24	ug/mL	91
4) Phenol	6.53	94	268858	3.83	ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	201978	3.77	ug/mL	97
6) 2-Chlorophenol	6.71	128	203616	3.81	ug/mL	95
7) Benzyl Alcohol	7.24	108	139753	3.81	ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	200228	3.90	ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	207813	4.01	ug/mL	88
10) 1,2-Dichlorobenzene	7.26	146	187276	3.85	ug/mL	98
11) 2-Methylphenol	7.41	107	167776	3.80	ug/mL	88
12) 3-, 4-Methylphenol	7.64	107	241489	3.77	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	246810	3.90	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	124959	3.74	ug/mL	98
15) Hexachloroethane	7.76	117	76732	3.71	ug/mL	91
19) Nitrobenzene	7.88	77	228391	3.88	ug/mL	99
20) Isophorone	8.25	82	341422	3.81	ug/mL	100
21) 2-Nitrophenol	8.36	139	119028	3.84	ug/mL#	89
22) 2,4-Dimethylphenol	8.45	122	157713	3.83	ug/mL	95
23) Benzoic Acid	8.59	122	83267	3.88	ug/mL	97
24) Bis(2-chloroethoxy)methane	8.61	93	233548	3.81	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D
Acq On : 21 Jul 2005 10:25 am
Sample : SVCAL4
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005

Vial: 4
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	164209	3.78	ug/mL	96
26) 1,2,4-Trichlorobenzene	8.86	180	171359	3.61	ug/mL	89
27) Naphthalene	8.98	128	533282	3.79	ug/mL	98
28) 4-Chloroaniline	9.09	127	86134	3.24	ug/mL	97
29) Hexachlorobutadiene	9.20	225	111215	3.99	ug/mL	94
30) 4-Chloro-3-methylphenol	9.86	107	190444	3.83	ug/mL	98
31) 2-Methylnaphthalene	10.07	142	390071	3.83	ug/mL	93
34) Hexachlorocyclopentadiene	10.34	237	34414	3.32	ug/mL#	78
35) 2,4,6-Trichlorophenol	10.54	196	125960	3.80	ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	128139	3.84	ug/mL	99
37) 2-Chloronaphthalene	10.84	162	345578	3.67	ug/mL	97
38) 2-Nitroaniline	11.02	65	117335	3.84	ug/mL	93
39) 3-Nitroaniline	11.69	138	22014	3.01	ug/mL	91
40) 1-Methylnaphthalene	10.23	142	345399	3.72	ug/mL	99
41) Dimethylphthalate	11.35	163	397989	3.73	ug/mL	99
42) Acenaphthylene	11.50	152	464053	3.67	ug/mL	98
43) 2,6-Dinitrotoluene	11.43	165	83510	3.76	ug/mL	89
44) Acenaphthene	11.78	153	313621	3.81	ug/mL	98
45) 2,4-Dinitrophenol	11.87	184	36341	4.23	ug/mL	96
46) 4-Nitrophenol	11.98	109	47829	3.97	ug/mL	95
47) Dibenzofuran	12.06	168	502932	3.75	ug/mL	100
48) 2,4-Dinitrotoluene	12.07	165	109453	3.96	ug/mL#	87
49) Fluorene	12.61	166	377777	3.94	ug/mL	97
50) Diethylphthalate	12.50	149	372024	3.90	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	196857	3.82	ug/mL	93
52) 4-Nitroaniline	12.67	138	43690	4.29	ug/mL#	82
56) 4,6-Dinitro-2-methylphenol	12.71	198	55106	4.13	ug/mL	89
57) Diphenylamine	12.83	169	212564	3.81	ug/mL	96
58) 4-bromophenyl phenyl ether	13.42	248	110867	3.82	ug/mL	91
59) Hexachlorobenzene	13.50	284	102109	3.78	ug/mL	99
60) Pentachlorophenol	13.82	266	65939	4.16	ug/mL	98
61) Phenanthrene	14.15	178	490440	3.80	ug/mL	97
62) Carbazole	14.50	167	172246	3.19	ug/mL	97
63) Anthracene	14.23	178	443698	3.71	ug/mL	98
64) Azobenzene	12.89	77	426922	3.80	ug/mL	99
65) Di-n-Butylphthalate	15.14	149	593125	3.73	ug/mL	99
66) Fluoranthene	16.05	202	487292	3.87	ug/mL	98
67) alpha-BHC	13.43	183	77548	3.69	ug/mL	97
68) beta-BHC	13.77	181	62529	3.99	ug/mL	97
69) gamma-BHC	13.91	183	63306	3.88	ug/mL	93
70) delta-BHC	14.27	183	55625	3.78	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

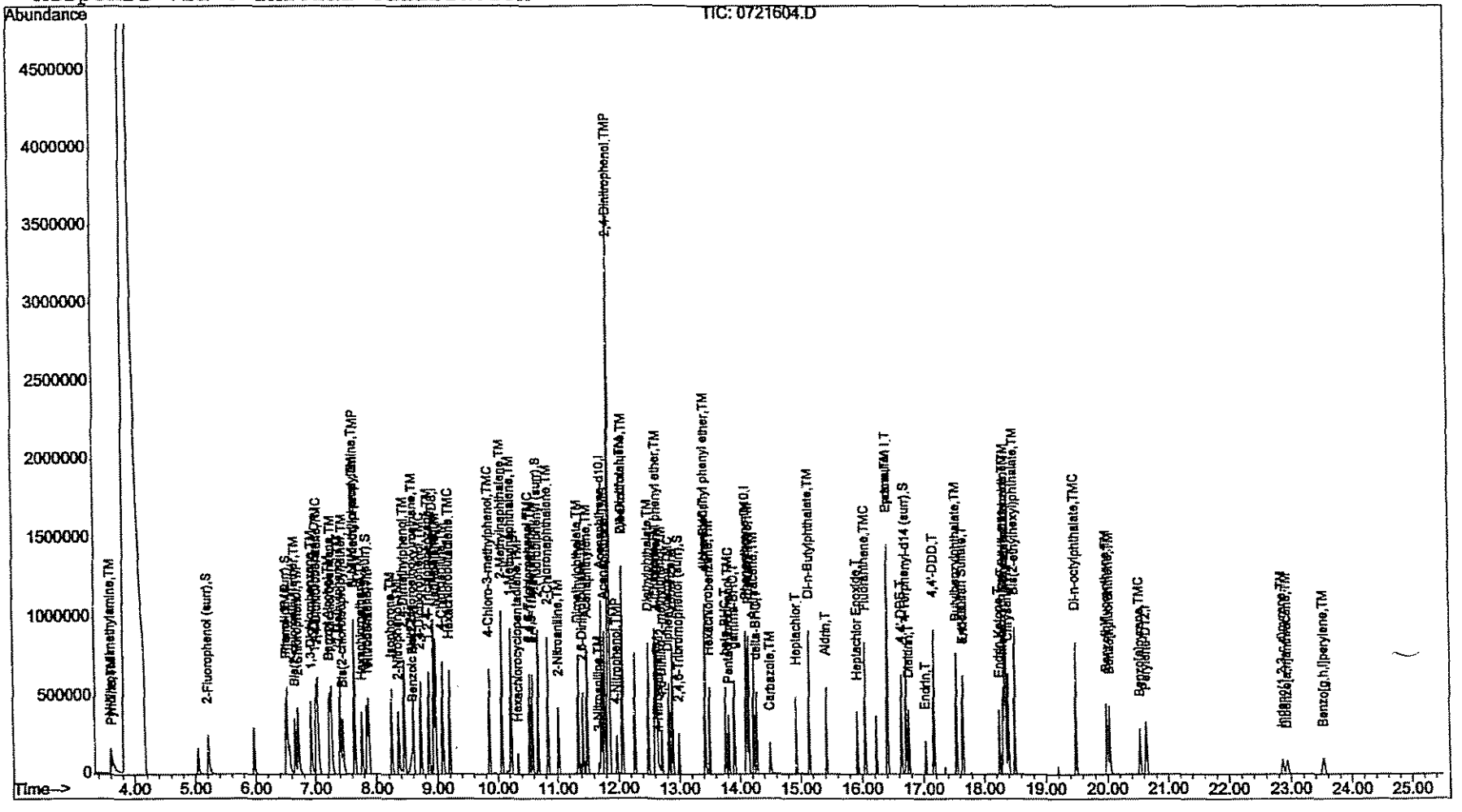
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	71282	3.73 ug/mL	96
72)	Aldrin	15.42	66	79432	3.78 ug/mL	94
73)	Heptachlor Epoxide	15.93	353	26939	4.04 ug/mL	95
74)	Endosulfan I	16.41	195	19790	3.85 ug/mL#	100
75)	4,4'-DDE	16.64	246	114389	3.92 ug/mL	95
76)	Dieldrin	16.76	79	96440	3.70 ug/mL#	93
77)	Endrin	17.04	263	15643	3.95 ug/mL#	82
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	205200	3.87 ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	25541	3.80 ug/mL#	71
81)	4,4'-DDT	17.66	235	152183	3.67 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	21309	4.24 ug/mL#	77
84)	Methoxychlor	18.31	227	329395	3.67 ug/mL	100
86)	Pyrene	16.41	202	488255	3.90 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	230755	3.78 ug/mL	95
88)	Benzo[a]anthracene	18.34	228	424939	3.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	64256	3.76 ug/mL	91
90)	Chrysene	18.39	228	352122	3.90 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	18.50	149	316857	3.79 ug/mL	96
94)	Di-n-octylphthalate	19.49	149	529972	3.82 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	325588	4.04 ug/mL	98
96)	Benzo[k]fluoranthene	20.03	252	310163	3.97 ug/mL	99
97)	Benzo[a]pyrene	20.53	252	244837	3.85 ug/mL#	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	129720	3.63 ug/mL	100
99)	Dibenzo[a,h]anthracene	22.94	278	114360	3.58 ug/mL#	91
100)	Benzo[g,h,i]perylene	23.53	276	136815	3.62 ug/mL#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

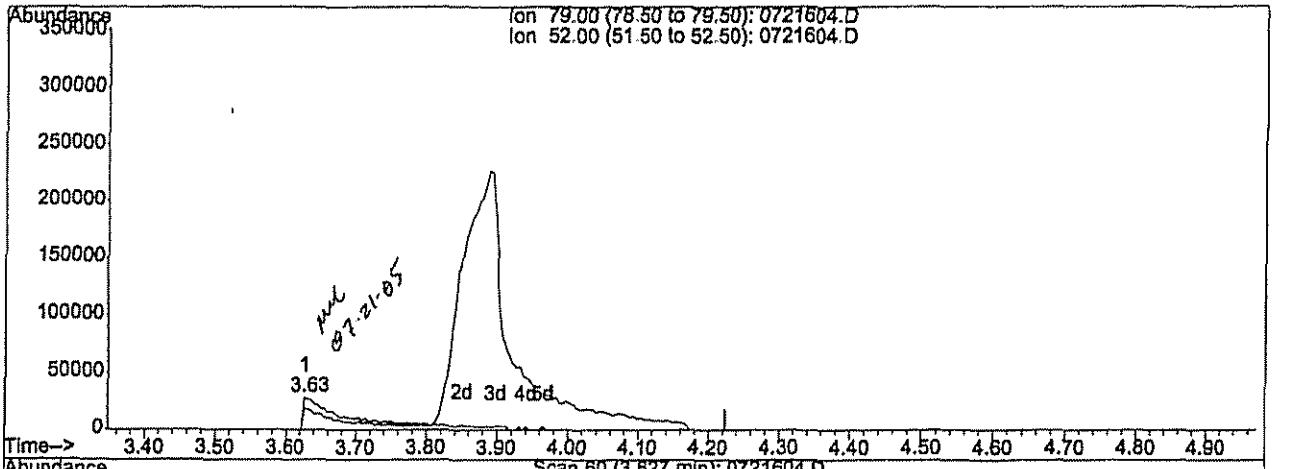
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

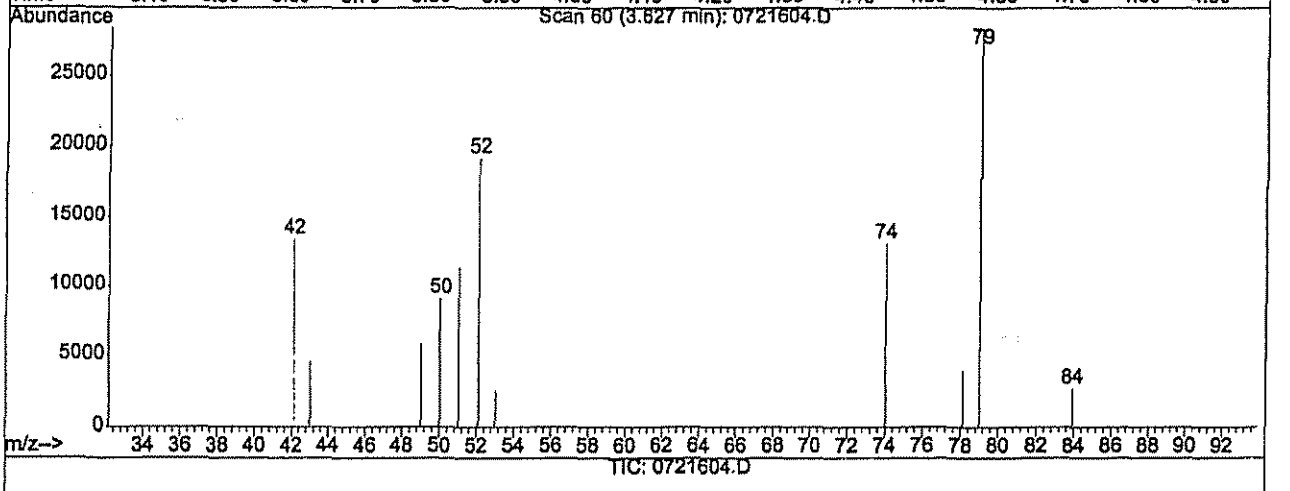


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.63min 5.81ug/mL m

response 142950

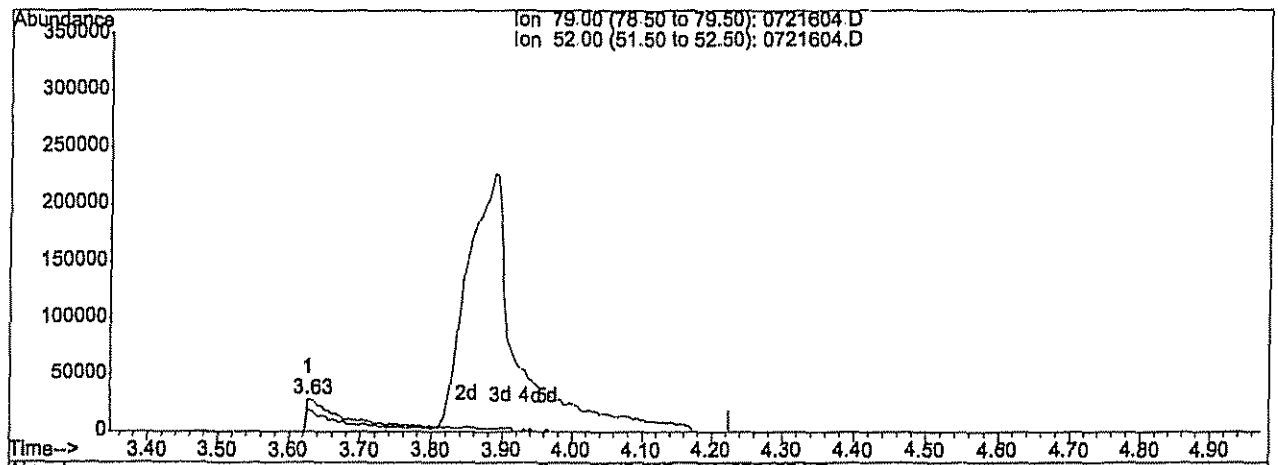
Ion	Exp%	Act%
79.00	100	100
52.00	10.30	35.70#
0.00	0.00	0.00
0.00	0.00	0.00

0721604.D 8270.M Thu Jul 21 11:18:02 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:17 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 3.97ug/mL

response 97610

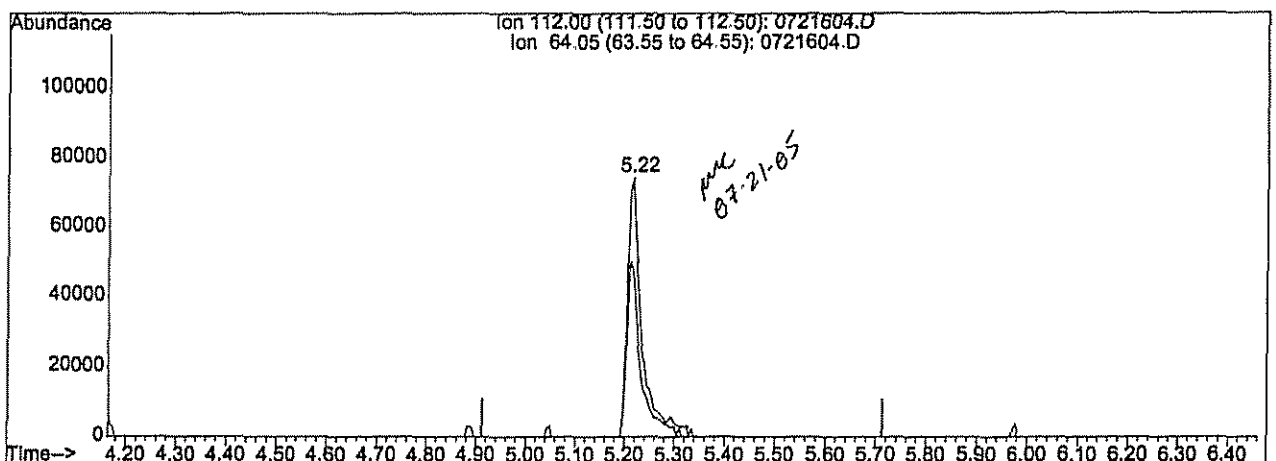
Ion	Exp%	Act%
79.00	100	100
52.00	10.30	52.29#
0.00	0.00	0.00
0.00	0.00	0.00

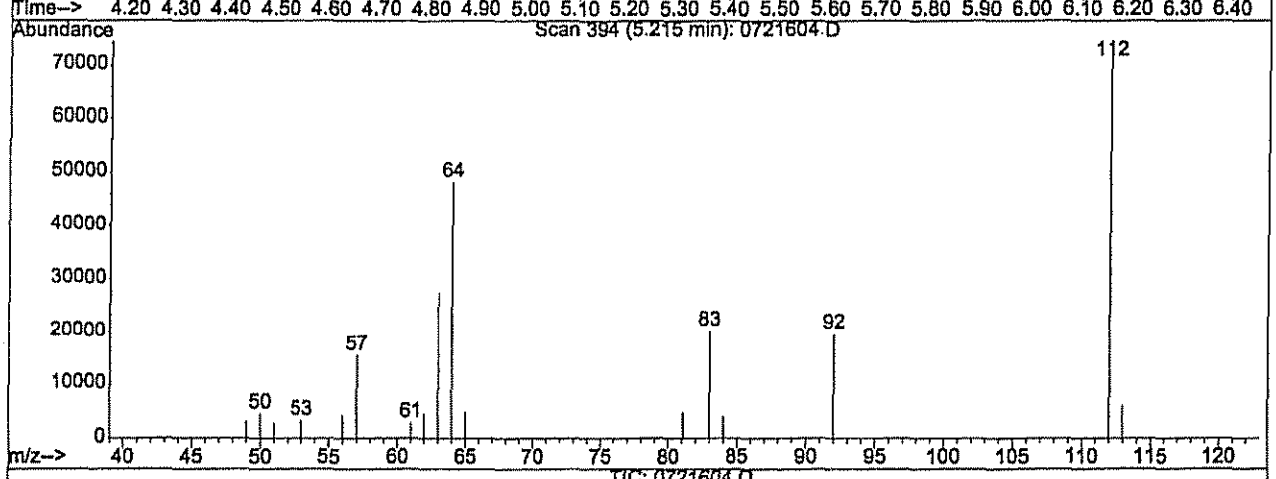
0721604.D 8270.M Thu Jul 21 11:17:57 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





TIC: 0721604.D

(16) 2-Fluorophenol (surr) (S)

5.22min 4.14ug/mL m

response 151709

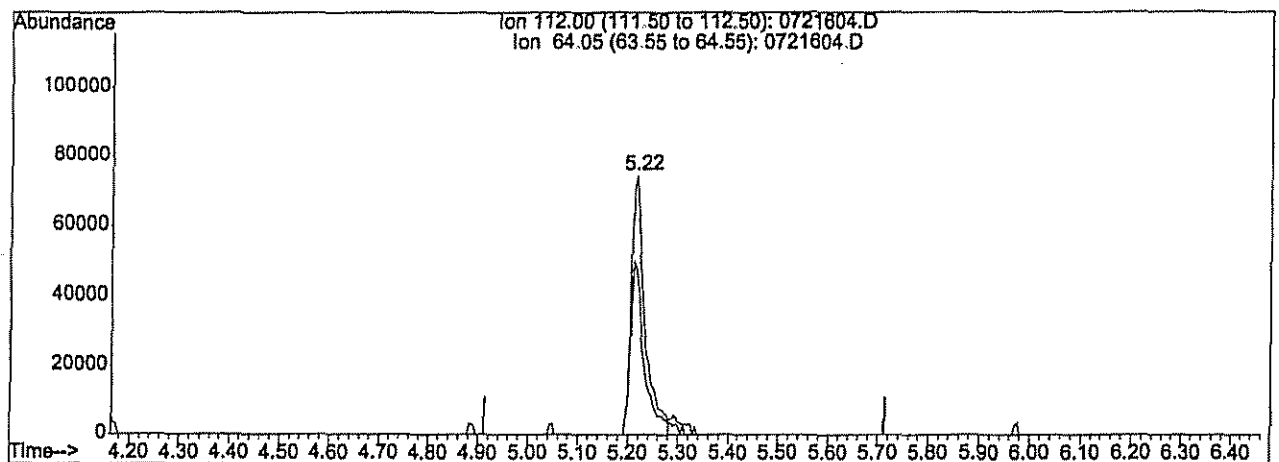
Ion	Exp%	Act%
112.00	100	100
64.05	61.30	64.80
0.00	0.00	0.00
0.00	0.00	0.00

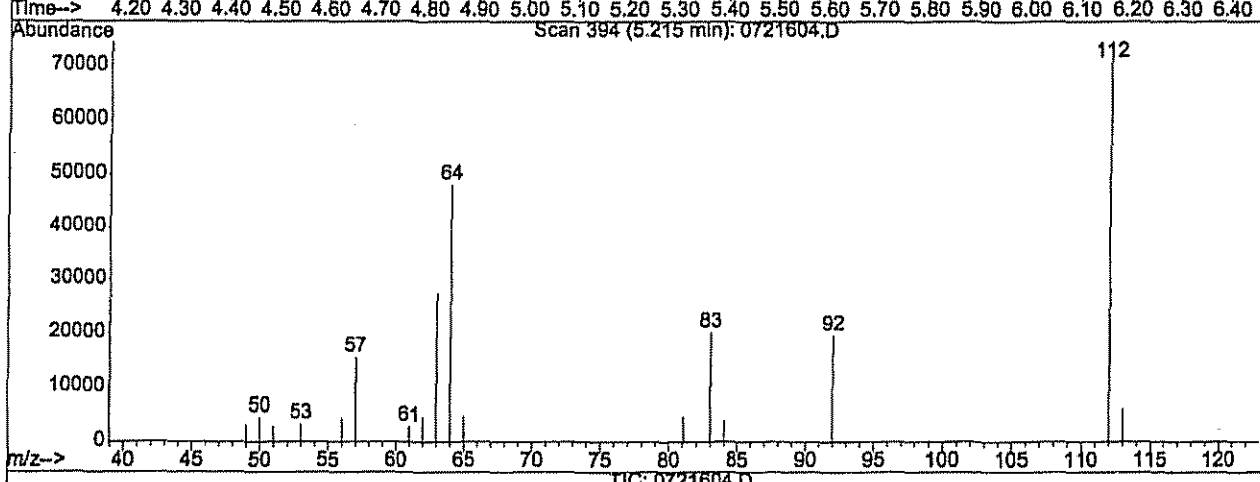
0721604.D 8270.M Thu Jul 21 11:18:16 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





TIC: 0721604.D

(16) 2-Fluorophenol (surr) (S)

5.22min 3.85ug/mL

response 141281

Ion	Exp%	Act%
112.00	100	100
64.05	61.30	69.59
0.00	0.00	0.00
0.00	0.00	0.00

0721604.D 8270.M Thu Jul 21 11:18:13 2005 ENV

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mmc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	124846	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	502739	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	290095	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	392326	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	280892	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	194777	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	189995m	6.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.40%	
17) Phenol-d6 (surr)	6.51	99	305401	5.98	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	59.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	112179	6.19	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.90%	
53) 2-Fluorobiphenyl (surr)	10.68	172	509360	5.87	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.70%	
54) 2,4,6-Tribromophenol (surr	13.00	330	49974	6.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	60.30%	
92) 4-Terphenyl-d14 (surr)	16.72	244	413385	5.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.80%	

Target Compounds						Qvalue
2) Pyridine	3.62	79	177790m	7.52	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	125692	6.33	ug/mL	98
4) Phenol	6.53	94	345993	5.99	ug/mL	97
5) Bis(2-chloroethyl)ether	6.66	93	258837	5.90	ug/mL	99
6) 2-Chlorophenol	6.71	128	263371	6.00	ug/mL	98
7) Benzyl Alcohol	7.24	108	182933	6.07	ug/mL	98
8) 1,3-Dichlorobenzene	6.93	146	252243	5.94	ug/mL	99
9) 1,4-Dichlorobenzene	7.04	146	259311	5.99	ug/mL	92
10) 1,2-Dichlorobenzene	7.27	146	236586	5.90	ug/mL	98
11) 2-Methylphenol	7.41	107	214676	5.93	ug/mL	95
12) 3-, 4-Methylphenol	7.64	107	306875	5.85	ug/mL#	92
13) Bis(2-chloroisopropyl)ethe	7.46	45	309611	5.91	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.65	70	164676	6.04	ug/mL	99
15) Hexachloroethane	7.77	117	99221	5.89	ug/mL	98
19) Nitrobenzene	7.88	77	296698	6.13	ug/mL	98
20) Isophorone	8.25	82	443933	6.07	ug/mL	99
21) 2-Nitrophenol	8.36	139	142362	5.61	ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	198582	5.90	ug/mL	91
23) Benzoic Acid	8.60	122	111600	6.33	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	295998	5.92	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	218215	6.16 ug/mL	99
26) 1,2,4-Trichlorobenzene	8.86	180	222126	5.83 ug/mL	99
27) Naphthalene	8.98	128	685904	5.98 ug/mL	99
28) 4-Chloroaniline	9.09	127	139615	6.76 ug/mL	98
29) Hexachlorobutadiene	9.20	225	138870	6.01 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	246990	6.07 ug/mL	94
31) 2-Methylnaphthalene	10.07	142	494923	5.94 ug/mL	95
34) Hexachlorocyclopentadiene	10.34	237	48241	5.99 ug/mL#	97
35) 2,4,6-Trichlorophenol	10.53	196	162929	6.07 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	163140	6.01 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	440110	5.84 ug/mL	98
38) 2-Nitroaniline	11.02	65	152417	6.14 ug/mL	97
39) 3-Nitroaniline	11.69	138	42519	7.69 ug/mL#	96
40) 1-Methylnaphthalene	10.23	142	443615	5.94 ug/mL	100
41) Dimethylphthalate	11.36	163	516480	6.01 ug/mL	99
42) Acenaphthylene	11.50	152	587536	5.80 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	109927	6.13 ug/mL	96
44) Acenaphthene	11.78	153	396903	5.94 ug/mL	99
45) 2,4-Dinitrophenol	11.86	184	49319	6.83 ug/mL	97
46) 4-Nitrophenol	11.98	109	63863	6.45 ug/mL	99
47) Dibenzofuran	12.06	168	634166	5.86 ug/mL	96
48) 2,4-Dinitrotoluene	12.07	165	131928	5.82 ug/mL	91
49) Fluorene	12.61	166	479093	6.09 ug/mL	95
50) Diethylphthalate	12.50	149	472917	6.06 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	12.64	204	250961	6.00 ug/mL	98
52) 4-Nitroaniline	12.66	138	57260	6.66 ug/mL#	88
56) 4,6-Dinitro-2-methylphenol	12.72	198	71873	6.62 ug/mL	94
57) Diphenylamine	12.83	169	270204	6.12 ug/mL	98
58) 4-bromophenyl phenyl ether	13.42	248	134181	5.83 ug/mL	94
59) Hexachlorobenzene	13.50	284	132630	6.22 ug/mL	97
60) Pentachlorophenol	13.82	266	84998	6.57 ug/mL	100
61) Phenanthrene	14.15	178	610988	5.98 ug/mL	99
62) Carbazole	14.50	167	252339	6.23 ug/mL	99
63) Anthracene	14.22	178	571388	6.08 ug/mL	99
64) Azobenzene	12.89	77	535724	6.02 ug/mL	99
65) Di-n-Butylphthalate	15.15	149	737463	5.90 ug/mL	99
66) Fluoranthene	16.05	202	623106	6.22 ug/mL	100
67) alpha-BHC	0.00	183	0	N.D. d	
68) beta-BHC	0.00	181	0	N.D. d	
69) gamma-BHC	0.00	183	0	N.D. d	
70) delta-BHC	0.00	183	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

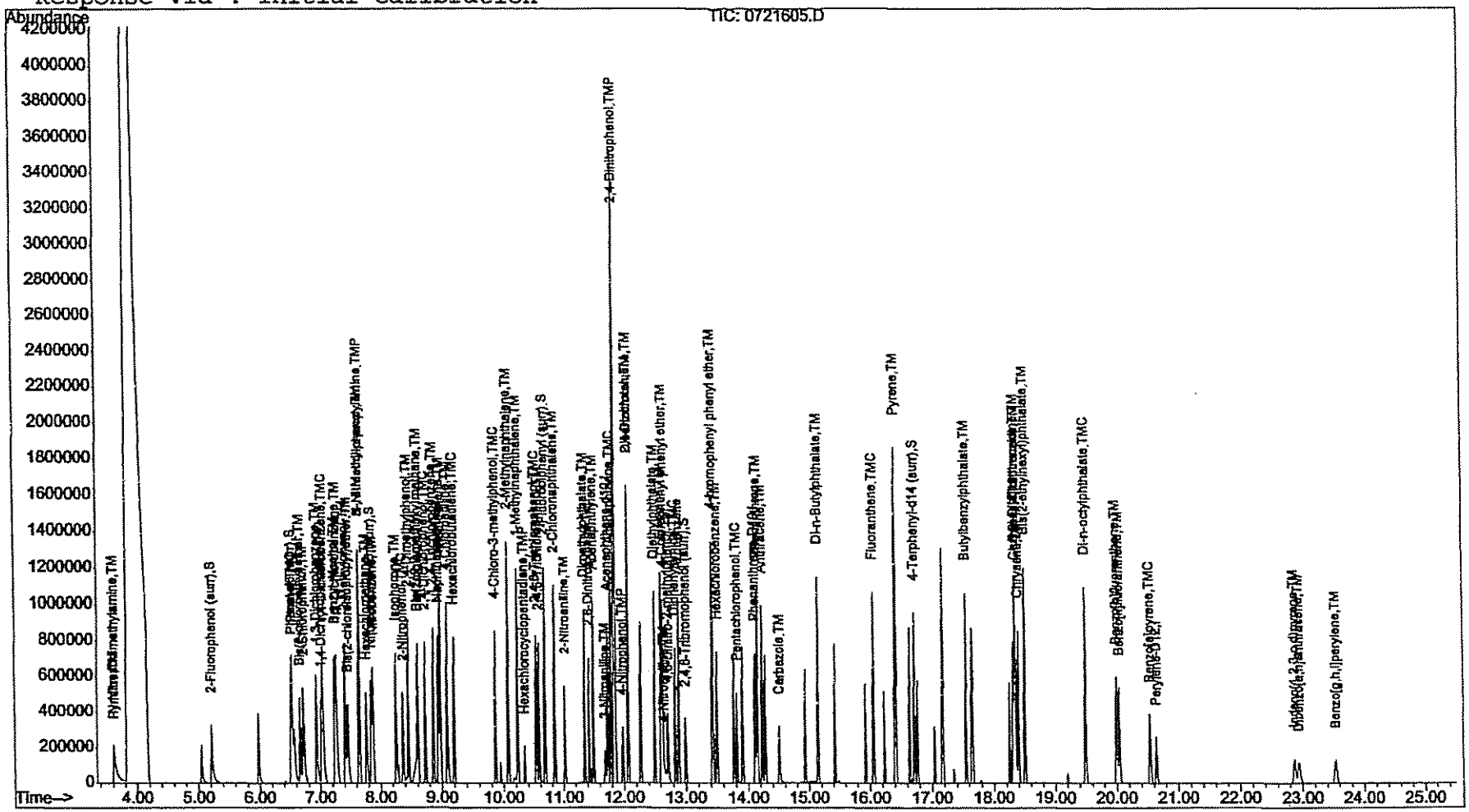
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	0.00	100	0	N.D. d	
72)	Aldrin	0.00	66	0	N.D. d	
73)	Heptachlor Epoxide	0.00	353	0	N.D. d	
74)	Endosulfan I	0.00	195	0	N.D. d	
75)	4,4'-DDE	0.00	246	0	N.D. d	
76)	Dieldrin	0.00	79	0	N.D. d	
77)	Endrin	0.00	263	0	N.D. d	
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	0.00	235	0	N.D. d	
80)	Endosulfan Sulfate	0.00	272	0	N.D. d	
81)	4,4'-DDT	0.00	235	0	N.D. d	
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	0.00	317	0	N.D. d	
84)	Methoxychlor	0.00	227	0	N.D. d	
86)	Pyrene	16.41	202	604955	5.87 ug/mL	98
87)	Butylbenzylphthalate	17.54	149	304383	6.12 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	550131	6.12 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	88635	6.38 ug/mL	96
90)	Chrysene	18.39	228	455547	6.14 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	409561	6.01 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	692866	6.32 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	409988	6.32 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	396294	6.34 ug/mL	100
97)	Benzo[a]pyrene	20.53	252	315573	6.26 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	168167	6.04 ug/mL	98
99)	Dibenzo[a,h]anthracene	22.94	278	154126	6.23 ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	185979	6.33 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

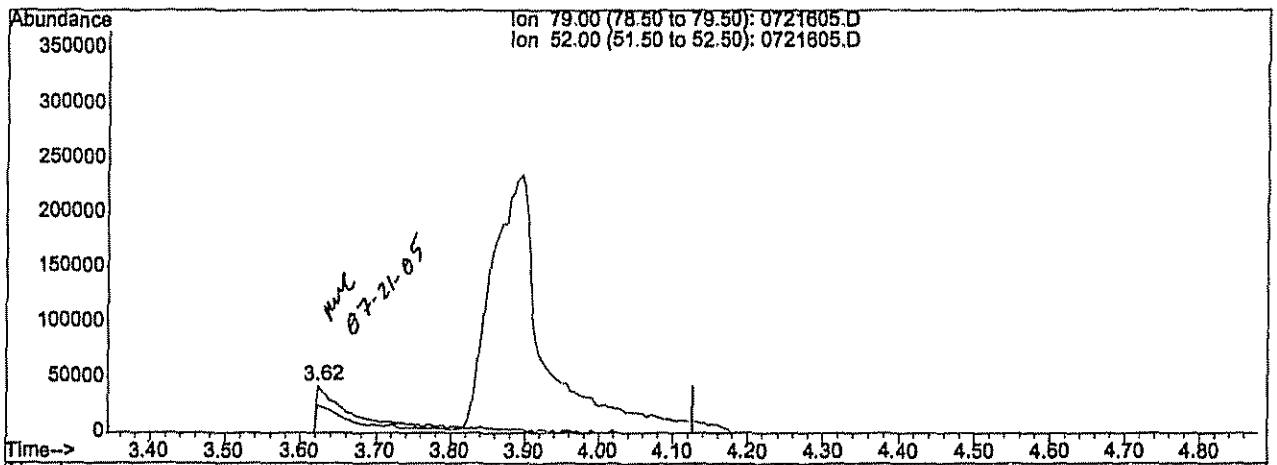
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

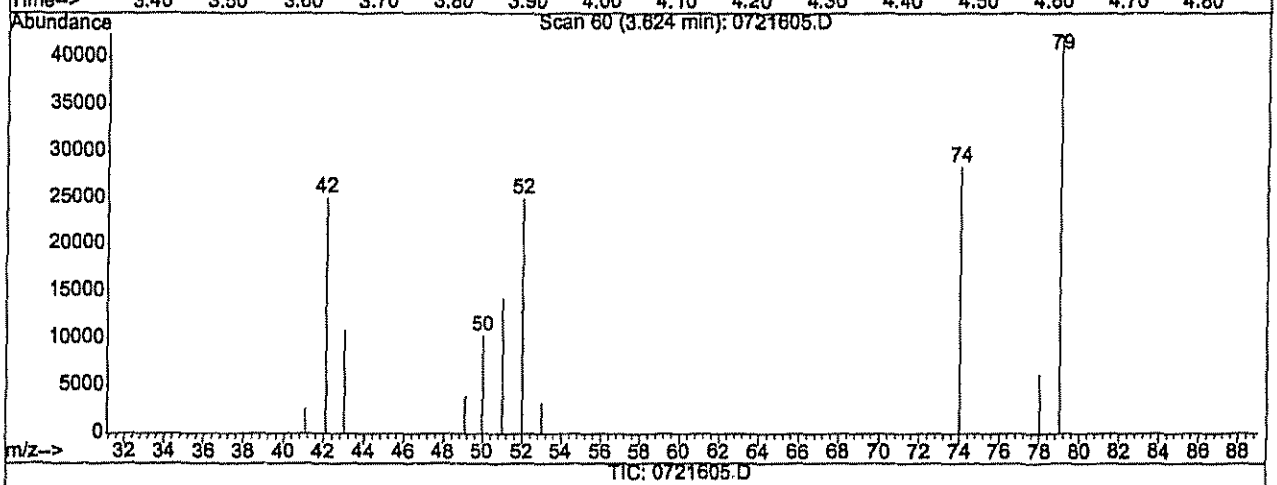


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.62min 7.52ug/mL m

response 177790

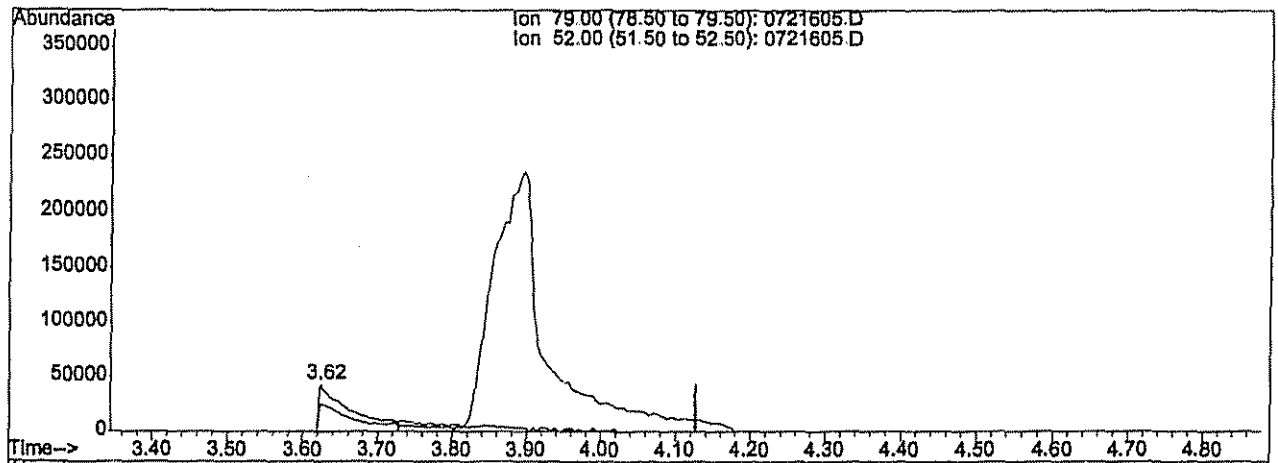
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	35.36
0.00	0.00	0.00
0.00	0.00	0.00

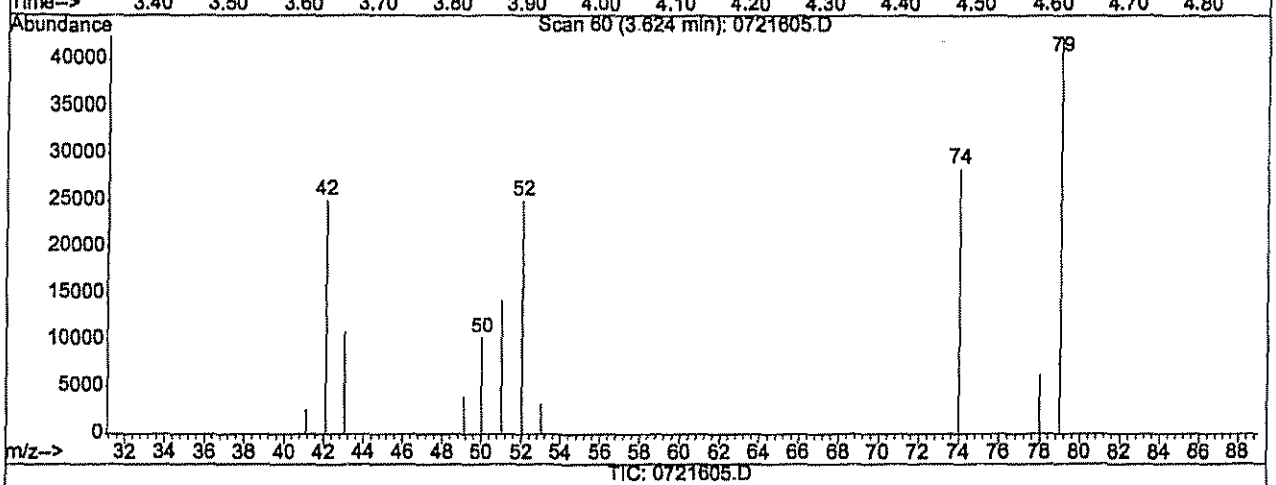
0721605.D 8270DXN.M Thu Jul 21 13:45:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:26 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





TIC: 0721605.D

(2) Pyridine (TM)

3.62min 5.21ug/mL

response 123134

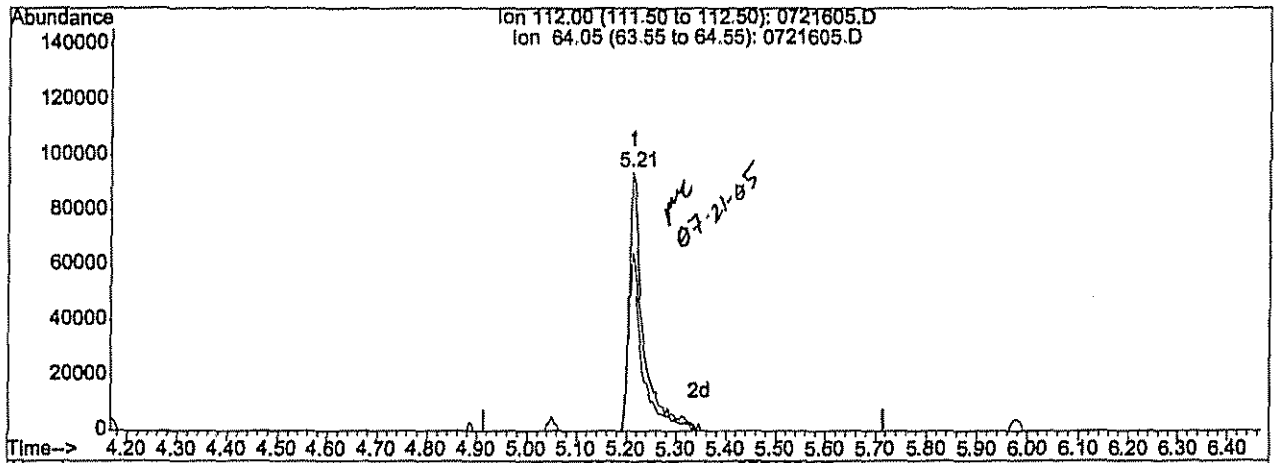
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	51.06#
0.00	0.00	0.00
0.00	0.00	0.00

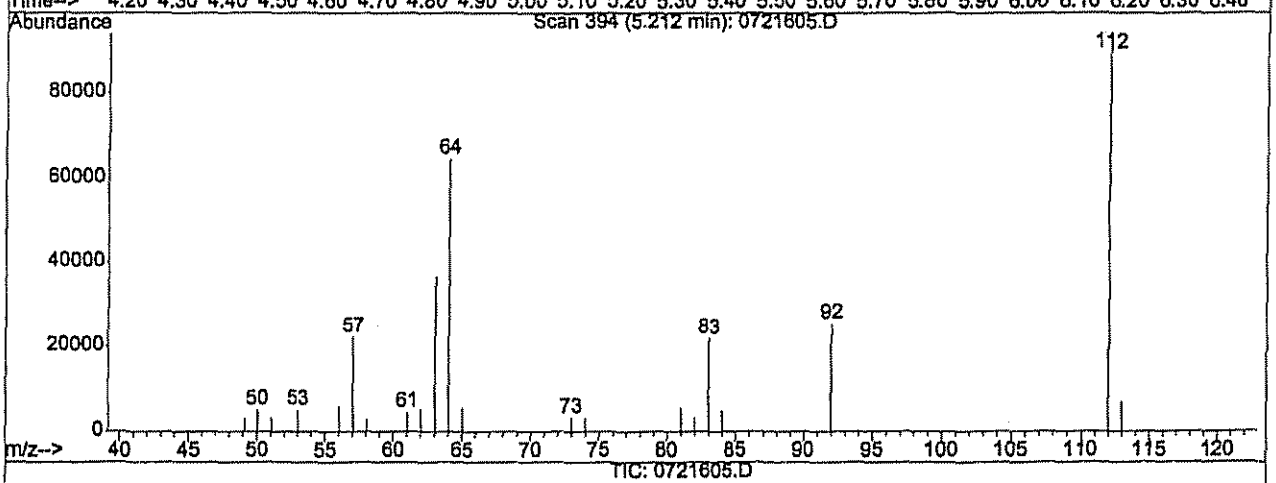
0721605.D 8270DXN.M Thu Jul 21 13:45:48 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

5.21min 6.14ug/mL m

response 189995

Ion	Exp%	Act%
112.00	100	100
64.05	64.80	66.94
0.00	0.00	0.00
0.00	0.00	0.00

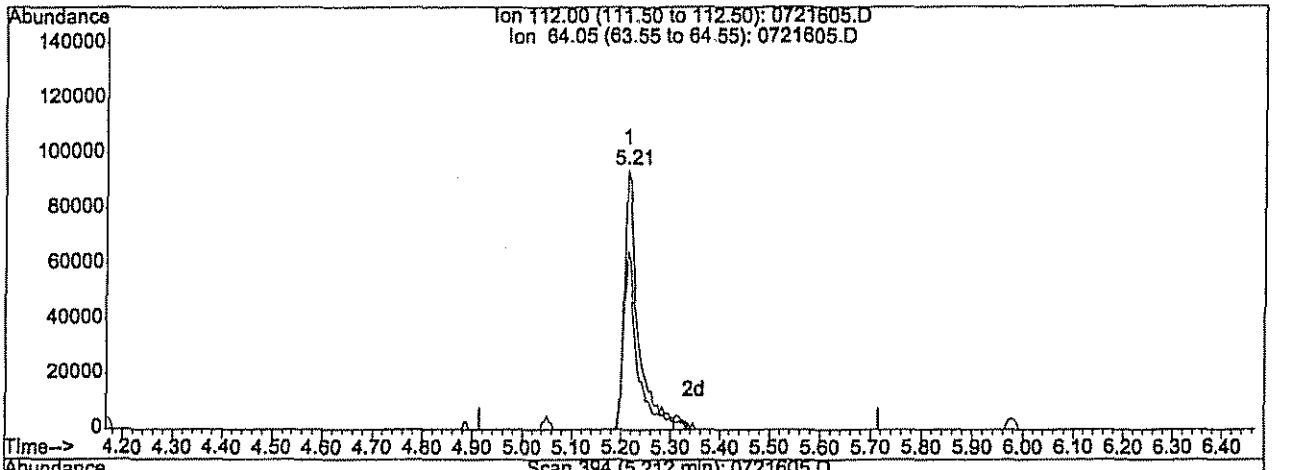
0721605.D 8270DXN.M Thu Jul 21 13:46:12 2005 ENV

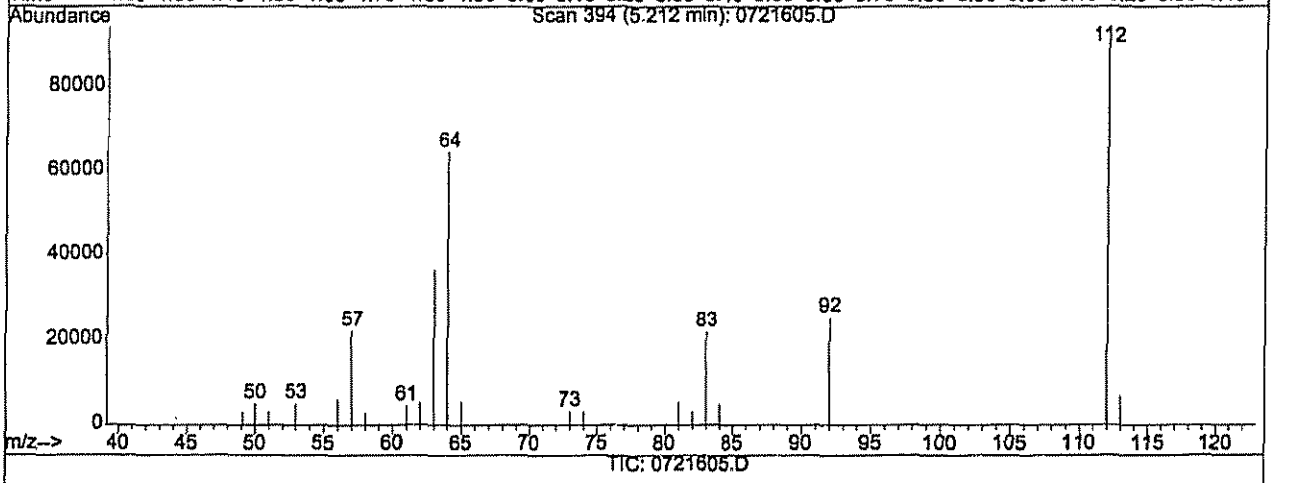
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





TIC: 0721605.D

(16) 2-Fluorophenol (surr) (S)

5.21min 5.93ug/mL

response 183600

Ion	Exp%	Act%
112.00	100	100
64.05	64.80	69.27
0.00	0.00	0.00
0.00	0.00	0.00

0721605.D 8270DXN.M Thu Jul 21 13:46:06 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	143801	4.00	ug/mL	0.00
18) Naphthalene-D8	8.94	136	599919	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	350122	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	488418	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	348554	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	232118	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	292358	8.15	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	81.50%	
17) Phenol-d6 (surr)	6.51	99	448972	7.64	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	76.40%	
32) Nitrobenzene-d5 (surr)	7.85	128	158723	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	72.80%	
53) 2-Fluorobiphenyl (surr)	10.68	172	740289	7.11	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	71.10%	
54) 2,4,6-Tribromophenol (surr	13.00	330	79563	7.94	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	79.40%	
92) 4-Terphenyl-d14 (surr)	16.72	244	631869	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	72.80%	

Target Compounds						Qvalue
2) Pyridine	3.61	79	304674m	10.53	ug/mL	
3) N-Nitrosodimethylamine	3.62	74	180604	7.79	ug/mL	97
4) Phenol	6.53	94	503358	7.57	ug/mL	99
5) Bis(2-chloroethyl)ether	6.66	93	392706	7.81	ug/mL	99
6) 2-Chlorophenol	6.72	128	375797	7.43	ug/mL	96
7) Benzyl Alcohol	7.24	108	262205	7.54	ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	370632	7.60	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	378770	7.60	ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	341907	7.43	ug/mL	97
11) 2-Methylphenol	7.41	107	307908	7.40	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	448374	7.47	ug/mL	94
13) Bis(2-chloroisopropyl)ethe	7.46	45	446803	7.43	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	228475	7.26	ug/mL	98
15) Hexachloroethane	7.77	117	144438	7.48	ug/mL	98
19) Nitrobenzene	7.88	77	428063	7.37	ug/mL	99
20) Isophorone	8.25	82	648135	7.40	ug/mL	98
21) 2-Nitrophenol	8.37	139	204095	6.85	ug/mL	98
22) 2,4-Dimethylphenol	8.46	122	306214	7.65	ug/mL	96
23) Benzoic Acid	8.62	122	175235	8.22	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	428396	7.20	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	312152	7.34 ug/mL	96
26) 1,2,4-Trichlorobenzene	8.87	180	325568	7.21 ug/mL	97
27) Naphthalene	8.98	128	990598	7.24 ug/mL	99
28) 4-Chloroaniline	9.12	127	132394	5.21 ug/mL	93
29) Hexachlorobutadiene	9.20	225	197363	7.16 ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	360365	7.40 ug/mL	97
31) 2-Methylnaphthalene	10.07	142	721241	7.27 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	63694	6.55 ug/mL#	93
35) 2,4,6-Trichlorophenol	10.54	196	238935	7.36 ug/mL	94
36) 2,4,5-Trichlorophenol	10.58	196	238292	7.27 ug/mL	95
37) 2-Chloronaphthalene	10.84	162	650421	7.20 ug/mL	100
38) 2-Nitroaniline	11.03	65	218402	7.25 ug/mL	94
39) 3-Nitroaniline	11.70	138	28218	3.95 ug/mL	99
40) 1-Methylnaphthalene	10.23	142	656869	7.30 ug/mL	98
41) Dimethylphthalate	11.36	163	759702	7.32 ug/mL	99
42) Acenaphthylene	11.50	152	872841	7.20 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	165168	7.59 ug/mL	93
44) Acenaphthene	11.78	153	584734	7.27 ug/mL	99
45) 2,4-Dinitrophenol	11.87	184	78762	8.74 ug/mL	89
46) 4-Nitrophenol	11.98	109	92299	7.58 ug/mL	92
47) Dibenzofuran	12.07	168	938212	7.22 ug/mL	97
48) 2,4-Dinitrotoluene	12.07	165	202150	7.44 ug/mL	97
49) Fluorene	12.61	166	695995	7.30 ug/mL	91
50) Diethylphthalate	12.50	149	695004	7.36 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	373045	7.39 ug/mL	96
52) 4-Nitroaniline	12.68	138	80351	7.54 ug/mL	98
56) 4,6-Dinitro-2-methylphenol	12.72	198	115696	8.35 ug/mL	97
57) Diphenylamine	12.83	169	367491	6.65 ug/mL	99
58) 4-bromophenyl phenyl ether	13.42	248	202886	7.13 ug/mL	99
59) Hexachlorobenzene	13.50	284	197227	7.36 ug/mL	95
60) Pentachlorophenol	13.82	266	131464	7.97 ug/mL	94
61) Phenanthrene	14.15	178	932348	7.34 ug/mL	98
62) Carbazole	14.50	167	343115m	6.74 ug/mL	
63) Anthracene	14.23	178	859104	7.32 ug/mL	99
64) Azobenzene	12.89	77	800668	7.22 ug/mL	100
65) Di-n-Butylphthalate	15.14	149	1148076	7.41 ug/mL	99
66) Fluoranthene	16.06	202	936940	7.44 ug/mL	98
67) alpha-BHC	13.43	183	148063	7.22 ug/mL	98
68) beta-BHC	13.77	181	116751	7.44 ug/mL	100
69) gamma-BHC	13.91	183	123355	7.62 ug/mL	99
70) delta-BHC	14.27	183	111779	7.73 ug/mL	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	142679	7.62 ug/mL	99
72)	Aldrin	15.42	66	155360	7.51 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	53866	8.03 ug/mL	98
74)	Endosulfan I	16.42	195	41907	8.24 ug/mL#	83
75)	4,4'-DDE	16.64	246	223116	7.68 ug/mL	100
76)	Dieldrin	16.77	79	193459	7.59 ug/mL	99
77)	Endrin	17.04	263	31230	7.90 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	392718	7.48 ug/mL#	99
80)	Endosulfan Sulfate	17.65	272	51074	7.72 ug/mL	97
81)	4,4'-DDT	17.65	235	293663	7.27 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	43164	8.41 ug/mL	95
84)	Methoxychlor	18.32	227	678888	7.77 ug/mL	95
86)	Pyrene	16.41	202	909292	7.15 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	458518	7.40 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	839315	7.49 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	126916	7.25 ug/mL	98
90)	Chrysene	18.40	228	708173	7.64 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	609711	7.20 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	1032687	7.80 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	603528	7.70 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	584742	7.74 ug/mL	99
97)	Benzo[a]pyrene	20.54	252	456661	7.52 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	264203	7.95 ug/mL	96
99)	Dibenzo[a,h]anthracene	22.94	278	233004	7.83 ug/mL	99
100)	Benzo[g,h,i]perylene	23.53	276	283883	8.00 ug/mL	97

(#) = qualifier out of range (m) = manual integration

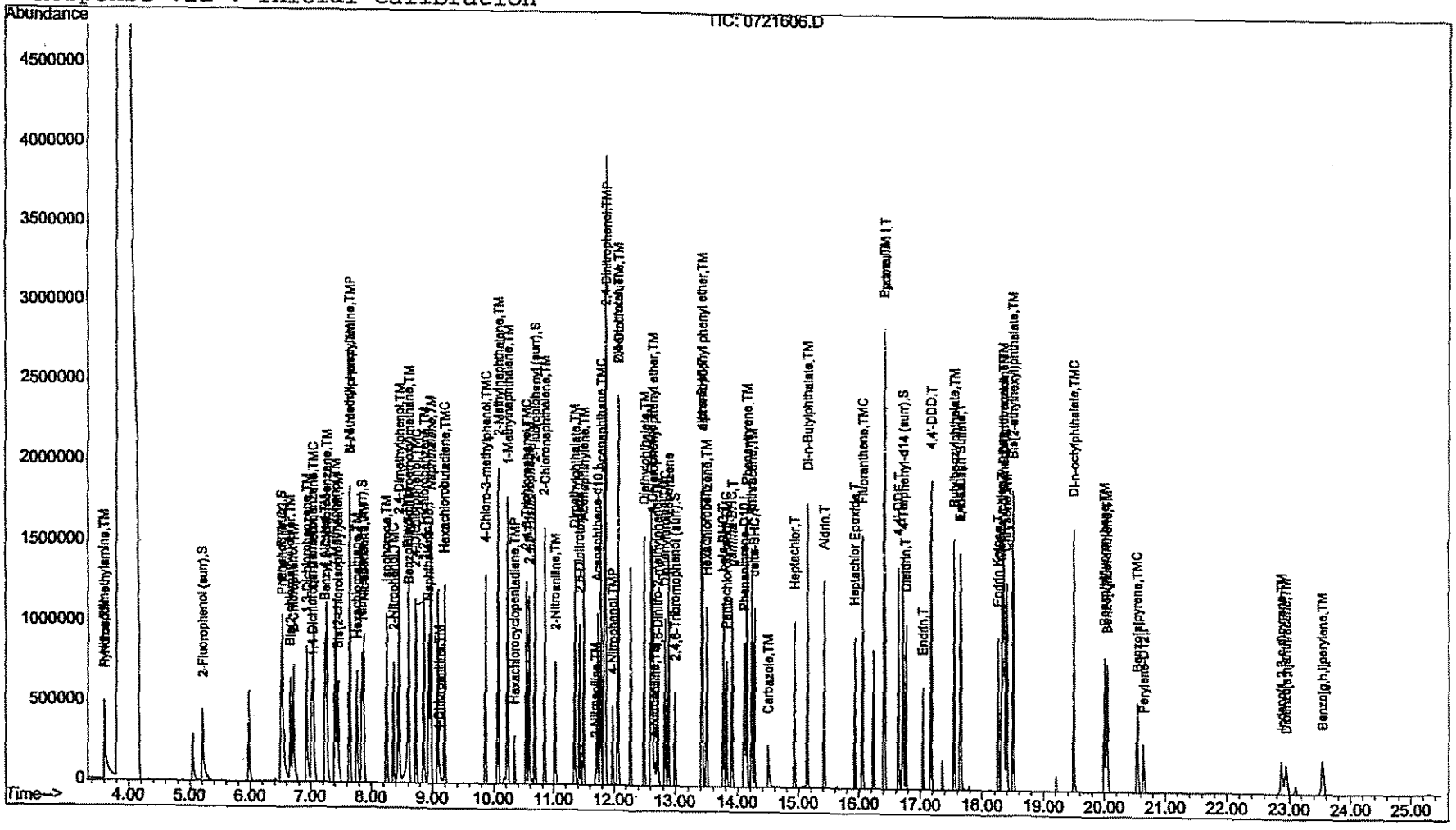
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D
Acq On : 21 Jul 2005 11:34 am
Sample : SVCAL8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005

Vial: 6
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

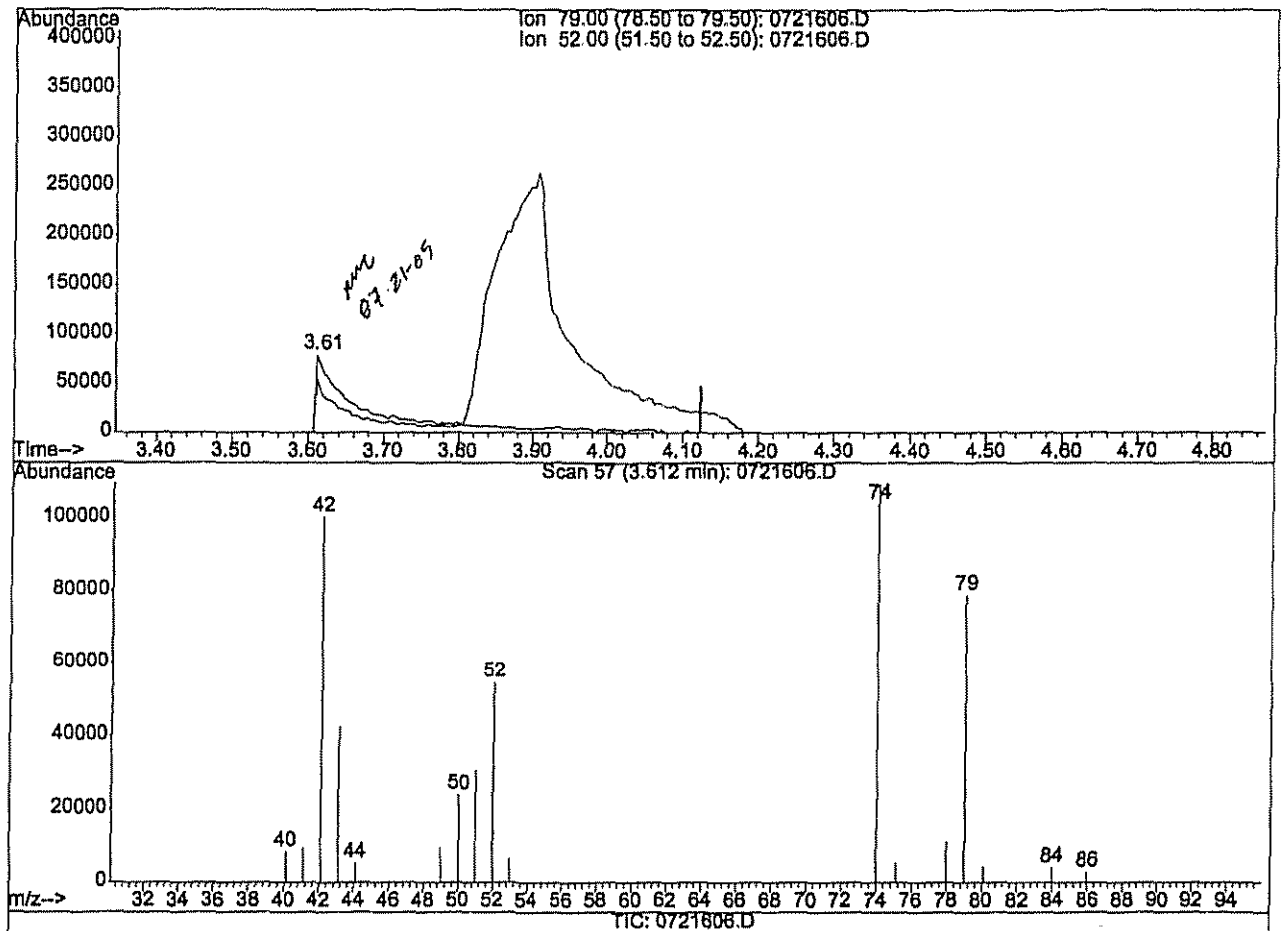
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.61min 10.53ug/mL m

response 304674

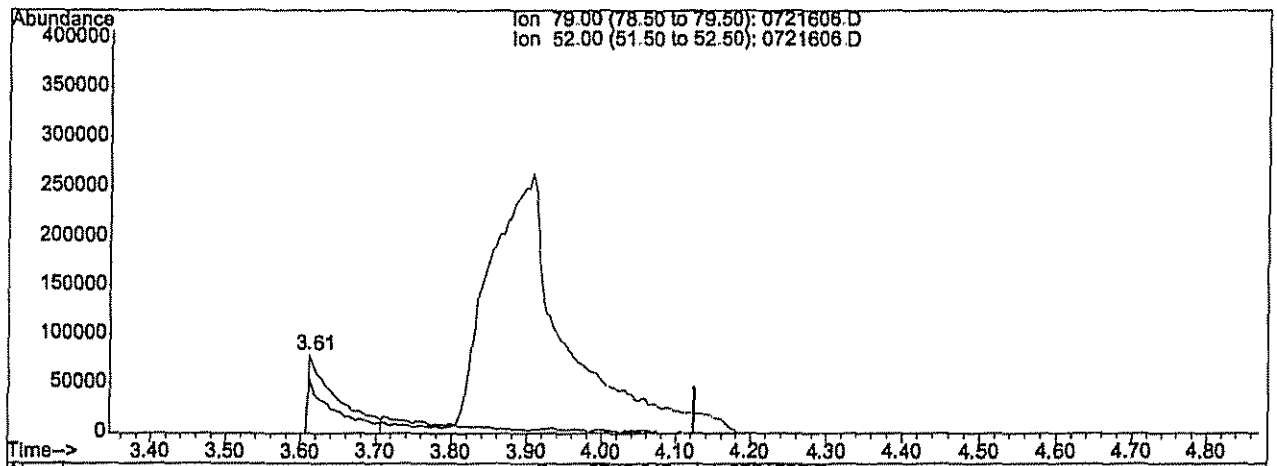
Ion	Exp%	Act%
79.00	100	100
52.00	35.40	41.35
0.00	0.00	0.00
0.00	0.00	0.00

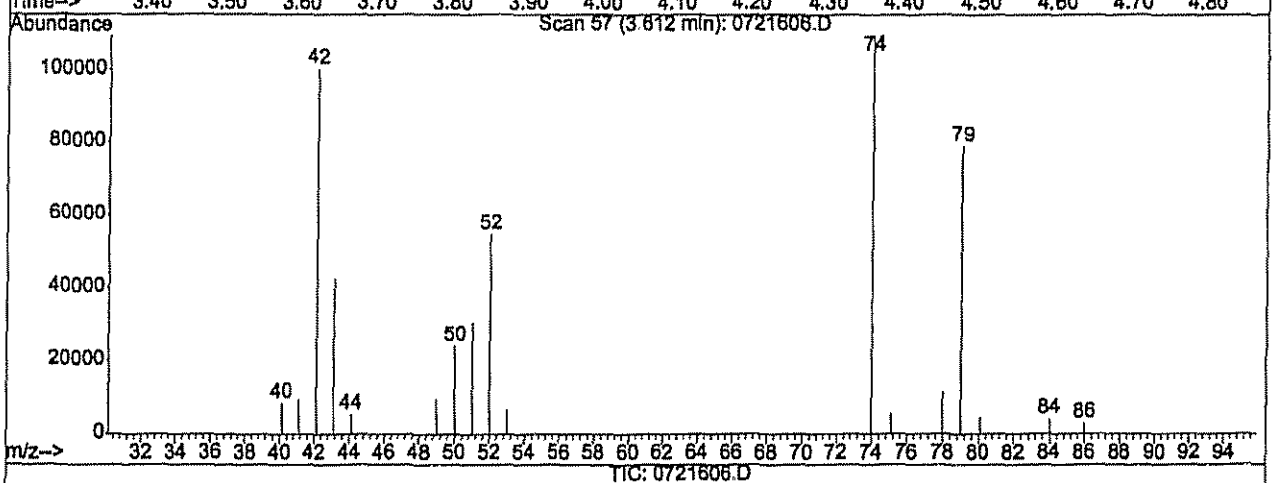
0721606.D 8270.M Thu Jul 21 13:54:58 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.61min 7.21ug/mL

response 208618

Ion	Exp%	Act%
79.00	100	100
52.00	35.40	60.38#
0.00	0.00	0.00
0.00	0.00	0.00

0721606.D 8270.M Thu Jul 21 13:54:53 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	153572	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	614169	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	357586	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	509832	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	367033	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	224296	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	478077	12.43	ug/mL	0.00
Spiked Amount 10.000			Recovery = 124.30%			
17) Phenol-d6 (surr)	6.52	99	728520	11.71	ug/mL	0.00
Spiked Amount 10.000			Recovery = 117.10%			
32) Nitrobenzene-d5 (surr)	7.86	128	262194	11.96	ug/mL	0.00
Spiked Amount 10.000			Recovery = 119.60%			
53) 2-Fluorobiphenyl (surr)	10.68	172	1197523	11.52	ug/mL	0.00
Spiked Amount 10.000			Recovery = 115.20%			
54) 2,4,6-Tribromophenol (surr	13.00	330	133787	13.09	ug/mL	0.00
Spiked Amount 10.000			Recovery = 130.90%			
92) 4-Terphenyl-d14 (surr)	16.72	244	1044598	11.64	ug/mL	0.00
Spiked Amount 10.000			Recovery = 116.40%			
Target Compounds						Qvalue
2) Pyridine	3.62	79	436672	13.29	ug/mL#	61
3) N-Nitrosodimethylamine	3.63	74	320483	13.01	ug/mL	99
4) Phenol	6.53	94	793741	11.30	ug/mL	98
5) Bis(2-chloroethyl)ether	6.67	93	693952	12.98	ug/mL	99
6) 2-Chlorophenol	6.72	128	613490	11.53	ug/mL	98
7) Benzyl Alcohol	7.25	108	438985	11.95	ug/mL	98
8) 1,3-Dichlorobenzene	6.94	146	603529	11.70	ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	610438	11.58	ug/mL	97
10) 1,2-Dichlorobenzene	7.27	146	548587	11.32	ug/mL	96
11) 2-Methylphenol	7.41	107	499457	11.41	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	728511	11.51	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	731747	11.56	ug/mL	100
14) N-Nitrosodi-n-propylamine	7.66	70	381380	11.57	ug/mL	98
15) Hexachloroethane	7.77	117	239095	11.75	ug/mL	99
19) Nitrobenzene	7.89	77	703650	12.03	ug/mL	99
20) Isophorone	8.26	82	1056290	11.96	ug/mL	99
21) 2-Nitrophenol	8.37	139	329035	11.10	ug/mL	95
22) 2,4-Dimethylphenol	8.46	122	485670	11.96	ug/mL	94
23) Benzoic Acid	8.67	122	315621	14.38	ug/mL	100
24) Bis(2-chloroethoxy)methane	8.61	93	689193	11.55	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	509972	11.91	ug/mL	98
26) 1,2,4-Trichlorobenzene	8.86	180	518081	11.44	ug/mL	99
27) Naphthalene	8.98	128	1595886	11.62	ug/mL	99
28) 4-Chloroaniline	9.14	127	186192	7.69	ug/mL#	91
29) Hexachlorobutadiene	9.20	225	331095	11.98	ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	600422	12.23	ug/mL	99
31) 2-Methylnaphthalene	10.08	142	1161199	11.65	ug/mL	100
34) Hexachlorocyclopentadiene	10.34	237	126248	13.20	ug/mL#	95
35) 2,4,6-Trichlorophenol	10.54	196	388839	11.91	ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	400052	12.17	ug/mL	97
37) 2-Chloronaphthalene	10.84	162	1070325	11.83	ug/mL	99
38) 2-Nitroaniline	11.03	65	358446	11.87	ug/mL	99
39) 3-Nitroaniline	11.71	138	39431	6.01	ug/mL	97
40) 1-Methylnaphthalene	10.23	142	1052406	11.66	ug/mL	100
41) Dimethylphthalate	11.36	163	1230643	11.81	ug/mL	99
42) Acenaphthylene	11.50	152	1385991	11.42	ug/mL	99
43) 2,6-Dinitrotoluene	11.44	165	272280	12.38	ug/mL	97
44) Acenaphthene	11.78	153	940641	11.67	ug/mL	98
45) 2,4-Dinitrophenol	11.88	184	141363	15.08	ug/mL	96
46) 4-Nitrophenol	11.99	109	167614	13.62	ug/mL	95
47) Dibenzofuran	12.07	168	1523252	11.71	ug/mL	99
48) 2,4-Dinitrotoluene	12.08	165	326571	11.94	ug/mL	84
49) Fluorene	12.62	166	1145291	11.97	ug/mL	96
50) Diethylphthalate	12.50	149	1144893	12.07	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	592288	11.67	ug/mL	93
52) 4-Nitroaniline	12.68	138	124658m	11.59	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.72	198	207057	14.19	ug/mL	96
57) Diphenylamine	12.84	169	518263	9.30	ug/mL	99
58) 4-bromophenyl phenyl ether	13.43	248	327692	11.28	ug/mL	95
59) Hexachlorobenzene	13.50	284	317035	11.52	ug/mL	98
60) Pentachlorophenol	13.82	266	226140	13.15	ug/mL	98
61) Phenanthrene	14.15	178	1500563	11.50	ug/mL	99
62) Carbazole	14.50	167	361342	7.31	ug/mL	99
63) Anthracene	14.23	178	1398170	11.61	ug/mL	99
64) Azobenzene	12.89	77	1311032	11.56	ug/mL	99
65) Di-n-Butylphthalate	15.15	149	1815289	11.39	ug/mL	100
66) Fluoranthene	16.06	202	1569696	12.12	ug/mL	98
67) alpha-BHC	13.43	183	240106	11.50	ug/mL	99
68) beta-BHC	13.77	181	195608	12.16	ug/mL	96
69) gamma-BHC	13.91	183	201065	12.04	ug/mL	99
70) delta-BHC	14.28	183	181108	12.10	ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	230922	11.95 ug/mL	98
72)	Aldrin	15.42	66	242114	11.39 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	86907	12.40 ug/mL	100
74)	Endosulfan I	16.42	195	64369	12.04 ug/mL	100
75)	4,4'-DDE	16.64	246	366769	12.21 ug/mL	100
76)	Dieldrin	16.76	79	307499	11.71 ug/mL	100
77)	Endrin	17.04	263	55426	13.48 ug/mL	94
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	649953	12.05 ug/mL	100
80)	Endosulfan Sulfate	17.64	272	83094	12.13 ug/mL	98
81)	4,4'-DDT	17.66	235	489286	11.87 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	72411	13.34 ug/mL	94
84)	Methoxychlor	18.31	227	1103812	12.19 ug/mL#	1
86)	Pyrene	16.42	202	1494500	11.40 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	764908	11.90 ug/mL	97
88)	Benzo[a]anthracene	18.35	228	1385532	11.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	189801	10.49 ug/mL	99
90)	Chrysene	18.40	228	1150485	11.90 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	1001987	11.47 ug/mL	100
94)	Di-n-octylphthalate	19.49	149	1701976	13.37 ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	964918	12.84 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	925098	12.75 ug/mL	97
97)	Benzo[a]pyrene	20.54	252	739236	12.76 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	413428	12.89 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.95	278	365685	12.77 ug/mL	97
100)	Benzo[g,h,i]perylene	23.54	276	433903	12.65 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

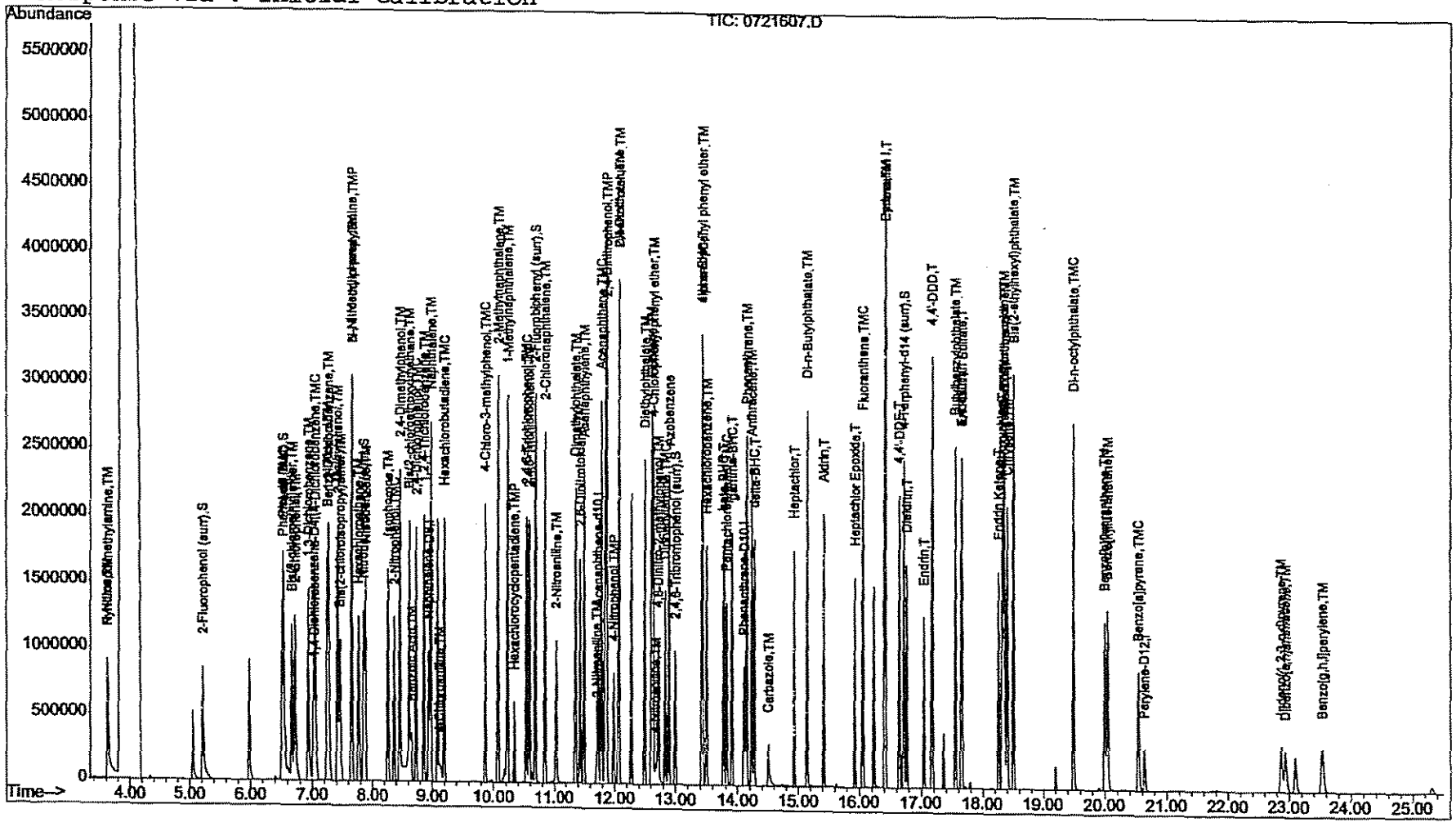
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D
Acq On : 21 Jul 2005 12:08 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005

Vial: 7
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



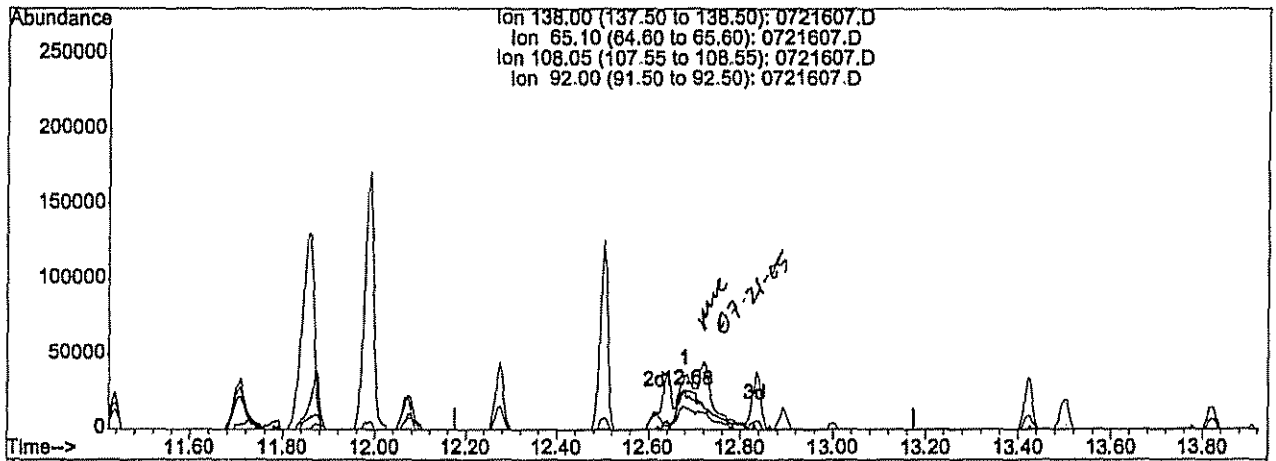
0721607.D 8270.M Thu Jul 21 14:11:06 2005 ENV

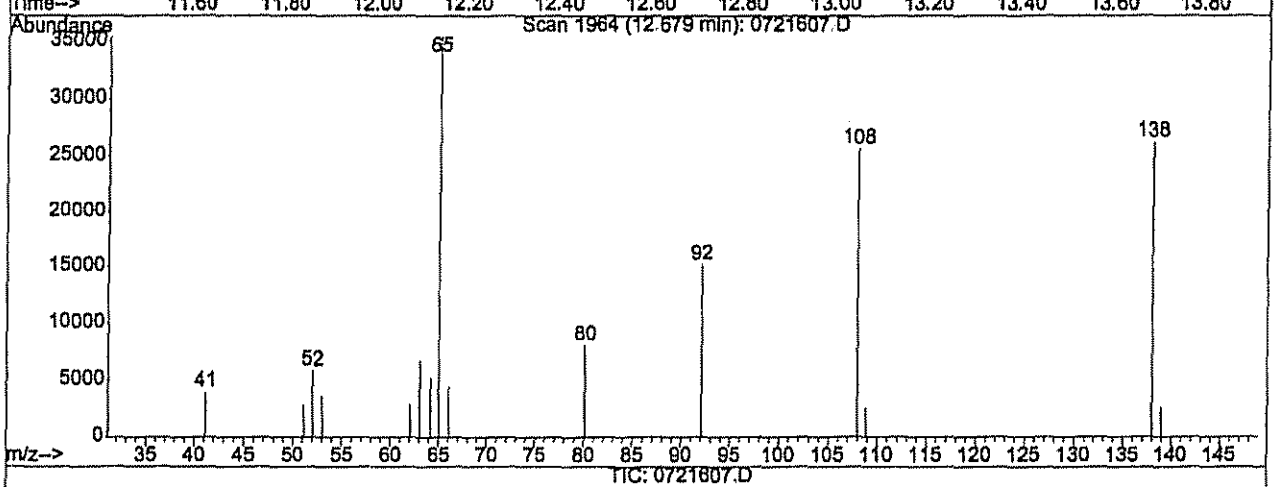
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D
Acq On : 21 Jul 2005 12:08 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005

Vial: 7
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.68min 11.59ug/mL m

response 124658

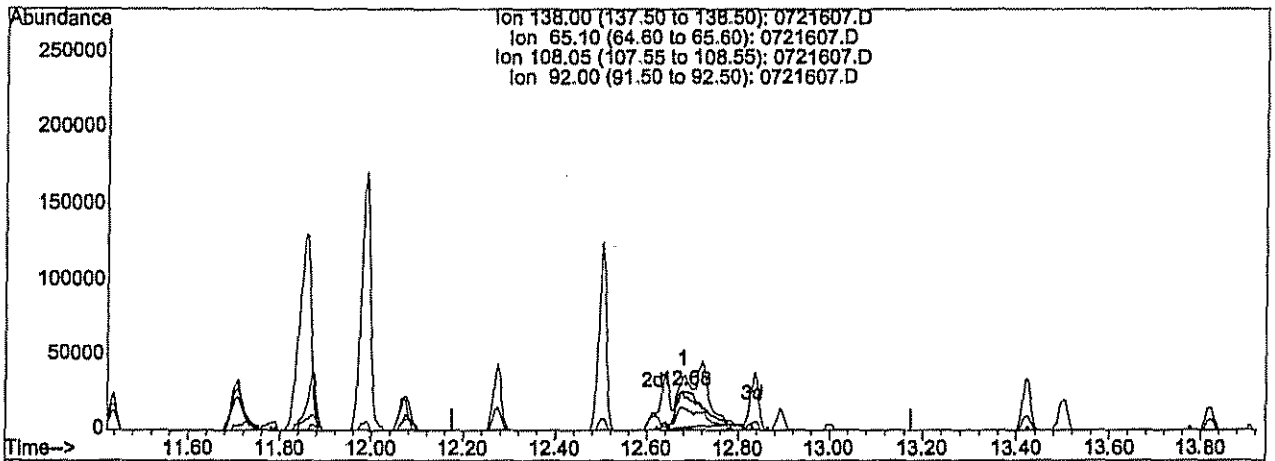
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	134.67
108.05	86.20	97.81
92.00	49.30	57.87

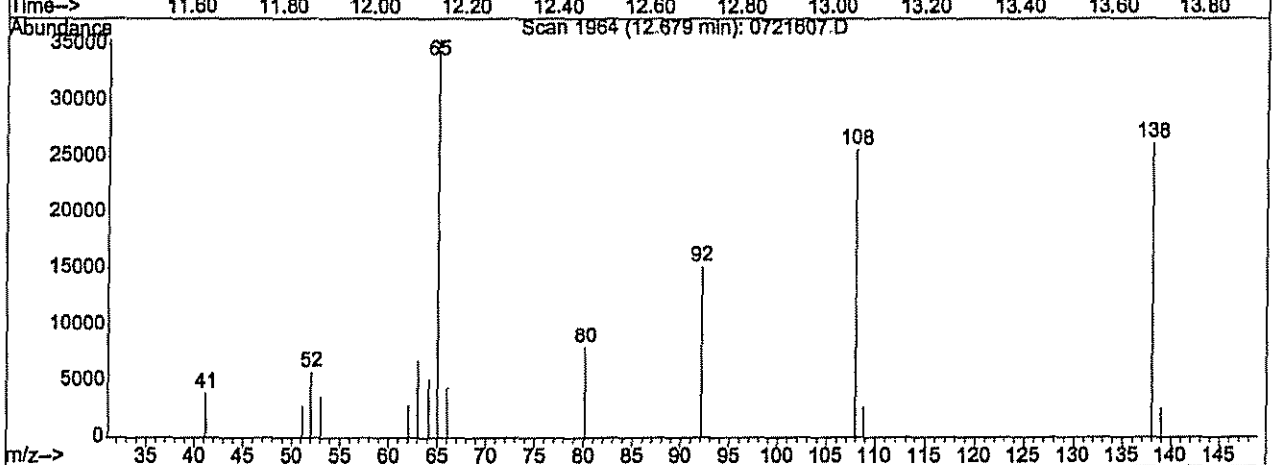
0721607.D 8270.M Thu Jul 21 13:59:53 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:58 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration





TIC: 0721607.D

(52) 4-Nitroaniline (TM)

12.68min 9.13ug/mL

response 98186

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	128.42
108.05	86.20	113.71#
92.00	49.30	53.47

0721607.D 8270.M Thu Jul 21 13:59:49 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	122278	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	517311	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	311486	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438342	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	290404	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	178109	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	767267	24.91	ug/mL	0.00
Spiked Amount 10.000			Recovery = 249.10%			
17) Phenol-d6 (surr)	6.52	99	1178414	23.88	ug/mL	0.00
Spiked Amount 10.000			Recovery = 238.80%			
32) Nitrobenzene-d5 (surr)	7.86	128	429092	23.25	ug/mL	0.00
Spiked Amount 10.000			Recovery = 232.50%			
53) 2-Fluorobiphenyl (surr)	10.69	172	1956958	21.75	ug/mL	0.00
Spiked Amount 10.000			Recovery = 217.50%			
54) 2,4,6-Tribromophenol (surr	13.01	330	222758	24.65	ug/mL	0.00
Spiked Amount 10.000			Recovery = 246.50%			
92) 4-Terphenyl-d14 (surr)	16.73	244	1726155	24.44	ug/mL	0.00
Spiked Amount 10.000			Recovery = 244.40%			

Target Compounds						Qvalue
2) Pyridine	3.62	79	790676	29.68	ug/mL#	60
3) N-Nitrosodimethylamine	3.65	74	504774	25.39	ug/mL	98
4) Phenol	6.55	94	1295148	23.39	ug/mL	96
5) Bis(2-chloroethyl)ether	6.67	93	1076487	24.95	ug/mL	99
6) 2-Chlorophenol	6.72	128	982226	23.33	ug/mL	98
7) Benzyl Alcohol	7.25	108	711206	24.34	ug/mL	94
8) 1,3-Dichlorobenzene	6.94	146	951491	23.26	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	980198	23.50	ug/mL	98
10) 1,2-Dichlorobenzene	7.27	146	870437	22.78	ug/mL	96
11) 2-Methylphenol	7.42	107	809500	23.42	ug/mL	97
12) 3-, 4-Methylphenol	7.66	107	1194245	23.87	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	1175799	23.47	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.67	70	630646	24.17	ug/mL	99
15) Hexachloroethane	7.77	117	392830	24.32	ug/mL	98
19) Nitrobenzene	7.89	77	1163139	23.59	ug/mL	99
20) Isophorone	8.27	82	1738715	23.39	ug/mL	98
21) 2-Nitrophenol	8.37	139	543225	22.04	ug/mL	93
22) 2,4-Dimethylphenol	8.47	122	798095	23.35	ug/mL	98
23) Benzoic Acid	8.71	122	555016	29.06	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.62	93	1121319	22.44	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.74	162	824192	22.88	ug/mL	98
26)	1,2,4-Trichlorobenzene	8.87	180	841407	22.23	ug/mL	99
27)	Naphthalene	8.99	128	2598909	22.58	ug/mL	100
28)	4-Chloroaniline	9.13	127	452048	23.57	ug/mL	97
29)	Hexachlorobutadiene	9.20	225	529509	22.75	ug/mL	96
30)	4-Chloro-3-methylphenol	9.87	107	1012809	24.41	ug/mL	98
31)	2-Methylnaphthalene	10.08	142	1900064	22.74	ug/mL	99
34)	Hexachlorocyclopentadiene	10.35	237	197990	23.37	ug/mL	86
35)	2,4,6-Trichlorophenol	10.54	196	649717	22.88	ug/mL	96
36)	2,4,5-Trichlorophenol	10.59	196	664794	23.17	ug/mL	99
37)	2-Chloronaphthalene	10.85	162	1741074	22.15	ug/mL	99
38)	2-Nitroaniline	11.04	65	639191	24.34	ug/mL	95
39)	3-Nitroaniline	11.71	138	95575	18.25	ug/mL	97
40)	1-Methylnaphthalene	10.24	142	1714757	21.91	ug/mL	100
41)	Dimethylphthalate	11.37	163	2039985	22.54	ug/mL	99
42)	Acenaphthylene	11.51	152	2254921	21.50	ug/mL	100
43)	2,6-Dinitrotoluene	11.44	165	458707	23.82	ug/mL	96
44)	Acenaphthene	11.79	153	1572312	22.49	ug/mL	98
45)	2,4-Dinitrophenol	11.88	184	234597	27.55	ug/mL	95
46)	4-Nitrophenol	12.00	109	289989	26.46	ug/mL	90
47)	Dibenzofuran	12.08	168	2535076	22.47	ug/mL	100
48)	2,4-Dinitrotoluene	12.09	165	556493	23.37	ug/mL#	80
49)	Fluorene	12.62	166	1889210	22.68	ug/mL	99
50)	Diethylphthalate	12.51	149	1879831	22.73	ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.65	204	966295	21.95	ug/mL	95
52)	4-Nitroaniline	12.69	138	184702m	19.82	ug/mL	
56)	4,6-Dinitro-2-methylphenol	12.73	198	345263	26.71	ug/mL	97
57)	Diphenylamine	12.84	169	872804	18.92	ug/mL	98
58)	4-bromophenyl phenyl ether	13.43	248	536708	21.71	ug/mL	95
59)	Hexachlorobenzene	13.51	284	523566	22.28	ug/mL	98
60)	Pentachlorophenol	13.83	266	373486	24.86	ug/mL	96
61)	Phenanthrene	14.15	178	2489812	22.35	ug/mL	99
62)	Carbazole	14.51	167	567714	14.29	ug/mL	95
63)	Anthracene	14.24	178	2301652	22.35	ug/mL	100
64)	Azobenzene	12.90	77	2181823	22.51	ug/mL	99
65)	Di-n-Butylphthalate	15.15	149	3004141	22.11	ug/mL	100
66)	Fluoranthene	16.07	202	2552565	22.88	ug/mL	100
67)	alpha-BHC	13.44	183	389091	21.86	ug/mL	100
68)	beta-BHC	13.78	181	315495	22.75	ug/mL	98
69)	gamma-BHC	13.92	183	329269	22.91	ug/mL	99
70)	delta-BHC	14.28	183	297338	23.06	ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	Heptachlor	14.93	100	393961	23.74	ug/mL	98
72)	Aldrin	15.42	66	403178	22.29	ug/mL	99
73)	Heptachlor Epoxide	15.93	353	139994	23.08	ug/mL	98
74)	Endosulfan I	16.42	195	102123	22.20	ug/mL	93
75)	4,4'-DDE	16.65	246	600743	23.19	ug/mL	99
76)	Dieldrin	16.77	79	498423	22.19	ug/mL	98
77)	Endrin	17.05	263	99145	27.37	ug/mL	97
78)	Endosulfan II	0.00	30	0	N.D.		
79)	4,4'-DDD	17.18	235	1043672	22.49	ug/mL	100
80)	Endosulfan Sulfate	17.65	272	137631	23.32	ug/mL	99
81)	4,4'-DDT	17.66	235	845021	23.90	ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.		
83)	Endrin Ketone	18.26	317	112485	23.58	ug/mL	94
84)	Methoxychlor	18.32	227	1758776	22.52	ug/mL#	1
86)	Pyrene	16.42	202	2457147	23.89	ug/mL	99
87)	Butylbenzylphthalate	17.55	149	1250098	24.61	ug/mL	98
88)	Benzo[a]anthracene	18.35	228	2175634	23.64	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.35	252	323629	23.09	ug/mL	95
90)	Chrysene	18.41	228	1791111	23.45	ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.51	149	1617949	23.59	ug/mL	98
94)	Di-n-octylphthalate	19.50	149	2626082	25.49	ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	1468444	24.33	ug/mL	99
96)	Benzo[k]fluoranthene	20.05	252	1375119	23.63	ug/mL	99
97)	Benzo[a]pyrene	20.55	252	1152135	24.77	ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.89	276	683190	26.51	ug/mL	97
99)	Dibenzo[a,h]anthracene	22.96	278	648916	28.24	ug/mL	98
100)	Benzo[g,h,i]perylene	23.56	276	700898	25.50	ug/mL	96

(#) = qualifier out of range (m) = manual integration

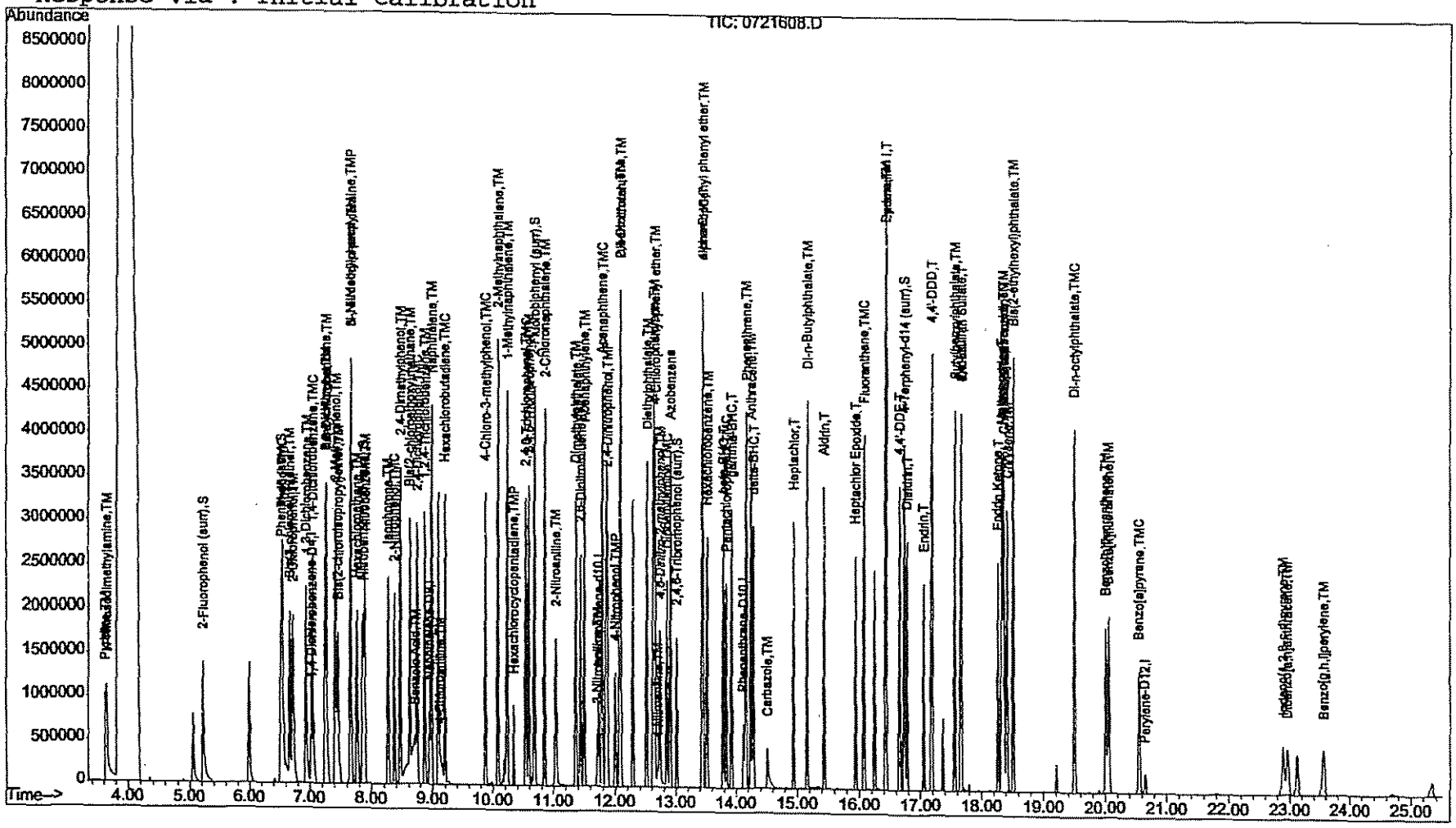
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



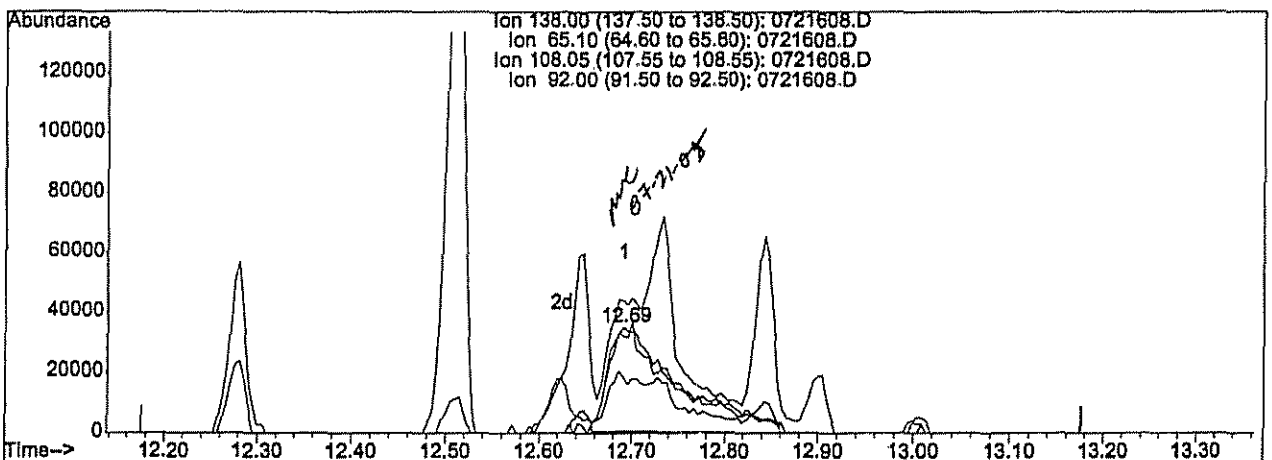
0721608.D 8270.M Thu Jul 21 14:11:18 2005 ENV

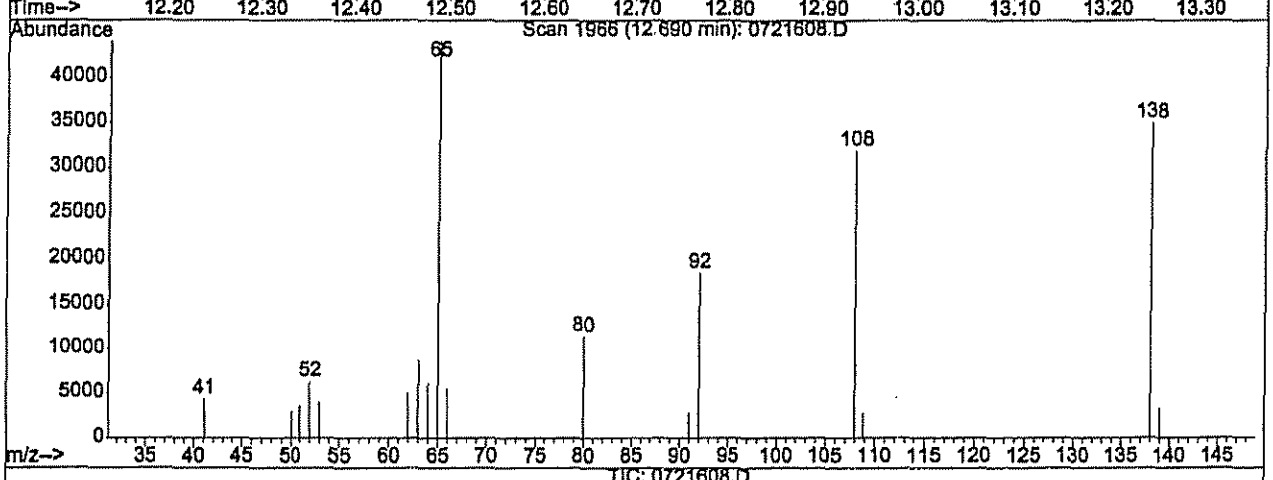
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.69min 19.82ug/ml. m

response 184702

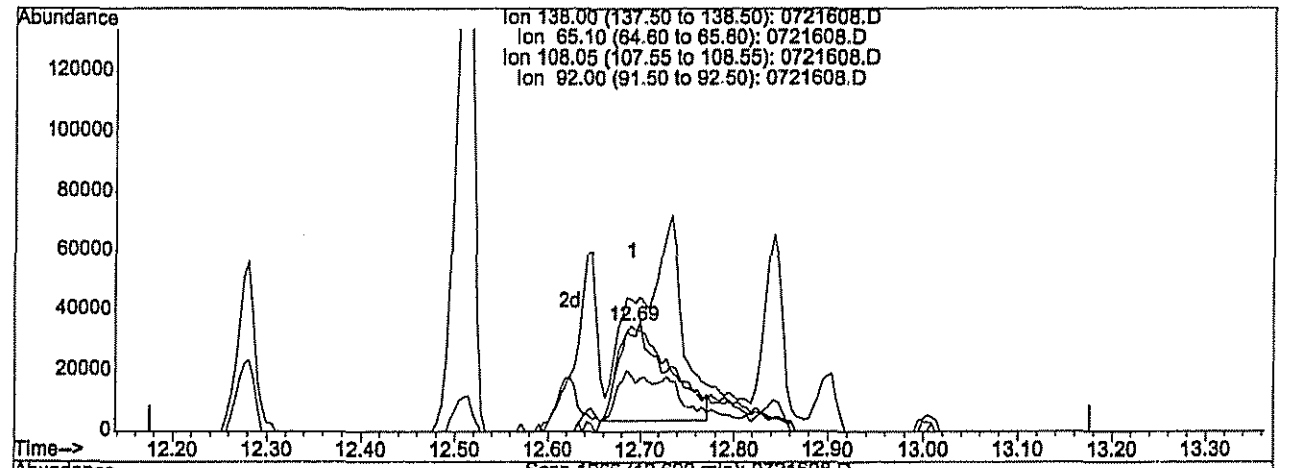
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	126.02
108.05	86.20	91.30
92.00	49.30	52.96

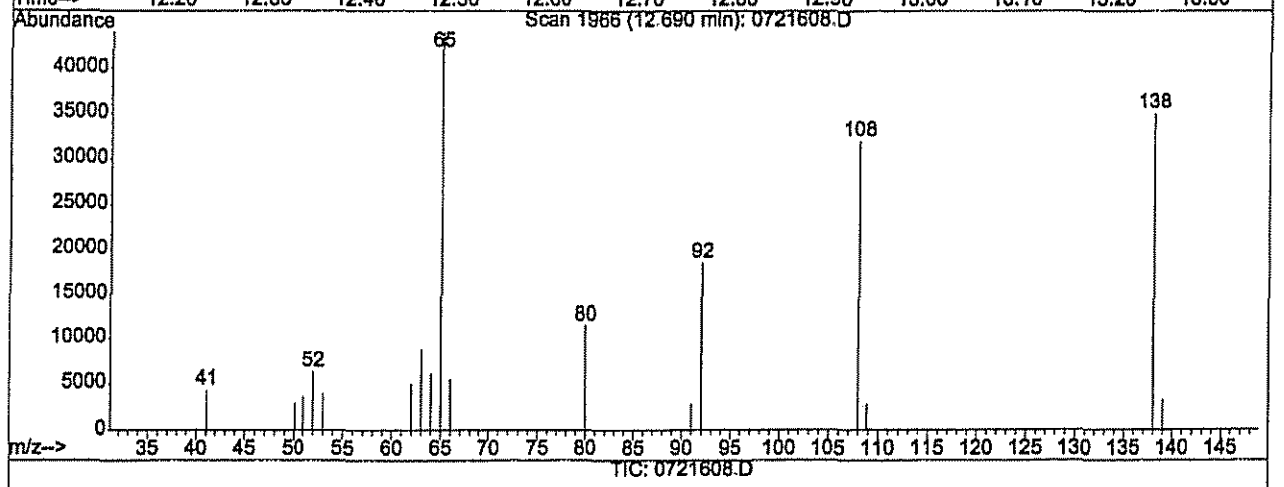
0721608.D 8270.M Thu Jul 21 14:01:18 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:00 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration





TIC: 0721608.D

(52) 4-Nitroaniline (TM)

12.69min 13.35ug/mL

response 124374

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	90.90#
108.05	86.20	91.66
92.00	49.30	48.24

0721608.D 8270.M Thu Jul 21 14:01:15 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07.21.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.03	152	138333	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	571046	4.00	ug/mL	0.01
33) Acenaphthene-d10	11.74	164	330788	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.12	188	486108	4.00	ug/mL	0.02
85) Chrysene-D12	18.38	240	294995	4.00	ug/mL	0.02
93) Perylene-D12	20.65	264	187831	4.00	ug/mL	0.01
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.24	112	1650145	47.11	ug/mL	0.03
Spiked Amount 10.000			Recovery = 471.10%			
17) Phenol-d6 (surr)	6.55	99	2491299	44.66	ug/mL	0.04
Spiked Amount 10.000			Recovery = 446.60%			
32) Nitrobenzene-d5 (surr)	7.88	128	901982	44.48	ug/mL	0.02
Spiked Amount 10.000			Recovery = 444.80%			
53) 2-Fluorobiphenyl (surr)	10.70	172	4156107	44.09	ug/mL	0.02
Spiked Amount 10.000			Recovery = 440.90%			
54) 2,4,6-Tribromophenol (surr	13.02	330	498196	51.72	ug/mL	0.02
Spiked Amount 10.000			Recovery = 517.20%			
92) 4-Terphenyl-d14 (surr)	16.74	244	3880768	53.95	ug/mL	0.02
Spiked Amount 10.000			Recovery = 539.50%			
Target Compounds						Qvalue
2) Pyridine	3.69	79	1476355	47.39	ug/mL#	49
3) N-Nitrosodimethylamine	3.76	74	1076360	47.46	ug/mL	97
4) Phenol	6.57	94	2655754	42.55	ug/mL	91
5) Bis(2-chloroethyl)ether	6.69	93	2210528	45.03	ug/mL	96
6) 2-Chlorophenol	6.73	128	2096352	44.19	ug/mL	98
7) Benzyl Alcohol	7.27	108	1530858	46.21	ug/mL	99
8) 1,3-Dichlorobenzene	6.95	146	2063502	44.79	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	2120732	45.07	ug/mL	96
10) 1,2-Dichlorobenzene	7.28	146	1872214	43.63	ug/mL	97
11) 2-Methylphenol	7.44	107	1718537	44.11	ug/mL	98
12) 3-, 4-Methylphenol	7.69	107	2540246	44.91	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.48	45	2450397	43.37	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.72	70	1323968	44.80	ug/mL	99
15) Hexachloroethane	7.77	117	838678	45.81	ug/mL	96
19) Nitrobenzene	7.91	77	2438424	44.92	ug/mL	97
20) Isophorone	8.29	82	3639656	44.51	ug/mL	99
21) 2-Nitrophenol	8.38	139	1127836	41.94	ug/mL	90
22) 2,4-Dimethylphenol	8.49	122	1708411	45.46	ug/mL	97
23) Benzoic Acid	8.81	122	1289762m	59.39	ug/mL	
24) Bis(2-chloroethoxy)methane	8.64	93	2395212	43.84	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.76	162	1763969	44.66	ug/mL	100
26)	1,2,4-Trichlorobenzene	8.88	180	1786571	43.21	ug/mL	99
27)	Naphthalene	9.00	128	5561051	44.14	ug/mL	99
28)	4-Chloroaniline	9.12	127	964869	45.70	ug/mL	93
29)	Hexachlorobutadiene	9.21	225	1108264	43.47	ug/mL	99
30)	4-Chloro-3-methylphenol	9.89	107	2135601	46.52	ug/mL	96
31)	2-Methylnaphthalene	10.09	142	4124998	45.07	ug/mL	100
34)	Hexachlorocyclopentadiene	10.35	237	510983	57.01	ug/mL	94
35)	2,4,6-Trichlorophenol	10.55	196	1377041	45.97	ug/mL	97
36)	2,4,5-Trichlorophenol	10.60	196	1415089	46.67	ug/mL	98
37)	2-Chloronaphthalene	10.86	162	3672397	44.48	ug/mL	99
38)	2-Nitroaniline	11.05	65	1314610	47.04	ug/mL	97
39)	3-Nitroaniline	11.73	138	343703	64.00	ug/mL	99
40)	1-Methylnaphthalene	10.25	142	3664028	44.64	ug/mL	99
41)	Dimethylphthalate	11.39	163	4298422	45.11	ug/mL	99
42)	Acenaphthylene	11.51	152	4006778	36.52	ug/mL	99
43)	2,6-Dinitrotoluene	11.47	165	955941	46.79	ug/mL	93
44)	Acenaphthene	11.80	153	3345032	45.46	ug/mL	99
45)	2,4-Dinitrophenol	11.90	184	534022	57.83	ug/mL	92
46)	4-Nitrophenol	12.03	109	654508	55.43	ug/mL	88
47)	Dibenzofuran	12.09	168	5369727	45.22	ug/mL	97
48)	2,4-Dinitrotoluene	12.11	165	1202675	47.74	ug/mL#	69
49)	Fluorene	12.64	166	4046417	46.11	ug/mL	97
50)	Diethylphthalate	12.53	149	3933544	45.12	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.66	204	2031555	44.00	ug/mL	99
52)	4-Nitroaniline	12.71	138	312190	32.35	ug/mL	96
56)	4,6-Dinitro-2-methylphenol	12.76	198	791020	54.30	ug/mL	98
57)	Diphenylamine	12.86	169	1165025	23.49	ug/mL	98
58)	4-bromophenyl phenyl ether	13.44	248	1143229	42.28	ug/mL	95
59)	Hexachlorobenzene	13.52	284	1119880	43.41	ug/mL	93
60)	Pentachlorophenol	13.84	266	838397	50.07	ug/mL	96
61)	Phenanthrene	14.17	178	5355876	43.79	ug/mL	100
62)	Carbazole	14.51	167	1588003	38.25	ug/mL	96
63)	Anthracene	14.25	178	4995947	44.18	ug/mL	99
64)	Azobenzene	12.91	77	4558234	42.78	ug/mL	99
65)	Di-n-Butylphthalate	15.17	149	6461969	43.37	ug/mL	99
66)	Fluoranthene	16.08	202	5691271	46.31	ug/mL	99
67)	alpha-BHC	13.46	183	781602	40.19	ug/mL	98
68)	beta-BHC	13.80	181	673622	44.19	ug/mL	98
69)	gamma-BHC	13.93	183	687108	43.44	ug/mL	99
70)	delta-BHC	14.29	183	627548	44.17	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.94	100	825315	44.93 ug/mL	97
72)	Aldrin	15.43	66	837302	42.24 ug/mL	99
73)	Heptachlor Epoxide	15.94	353	314041	46.99 ug/mL	99
74)	Endosulfan I	16.44	195	199433	39.59 ug/mL#	90
75)	4,4'-DDE	16.66	246	1321162	46.24 ug/mL	99
76)	Dieldrin	16.78	79	1073980	43.66 ug/mL	100
77)	Endrin	17.05	263	215277	52.36 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.19	235	2138856	41.99 ug/mL	100
80)	Endosulfan Sulfate	17.66	272	218295	33.51 ug/mL	96
81)	4,4'-DDT	17.67	235	1691455	43.17 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.28	317	215637	40.88 ug/mL	97
84)	Methoxychlor	18.33	227	3275066	38.20 ug/mL#	1
86)	Pyrene	16.44	202	5512649	52.80 ug/mL#	95
87)	Butylbenzylphthalate	17.57	149	2421942	46.76 ug/mL	99
88)	Benzo[a]anthracene	18.37	228	4376023	46.90 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.36	252	695288	49.10 ug/mL	93
90)	Chrysene	18.43	228	3569644	46.15 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.51	149	3131724	45.05 ug/mL	99
94)	Di-n-octylphthalate	19.50	149	5035785	45.95 ug/mL	100
95)	Benzo[b]fluoranthene	20.02	252	3007680	47.16 ug/mL	99
96)	Benzo[k]fluoranthene	20.07	252	2570961	41.98 ug/mL	98
97)	Benzo[a]pyrene	20.57	252	2306545	46.82 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.91	276	1691539	61.31 ug/mL	92
99)	Dibenzo[a,h]anthracene	22.98	278	1594726	64.18 ug/mL	97
100)	Benzo[g,h,i]perylene	23.59	276	1694824	57.95 ug/mL	96

(#) = qualifier out of range (m) = manual integration

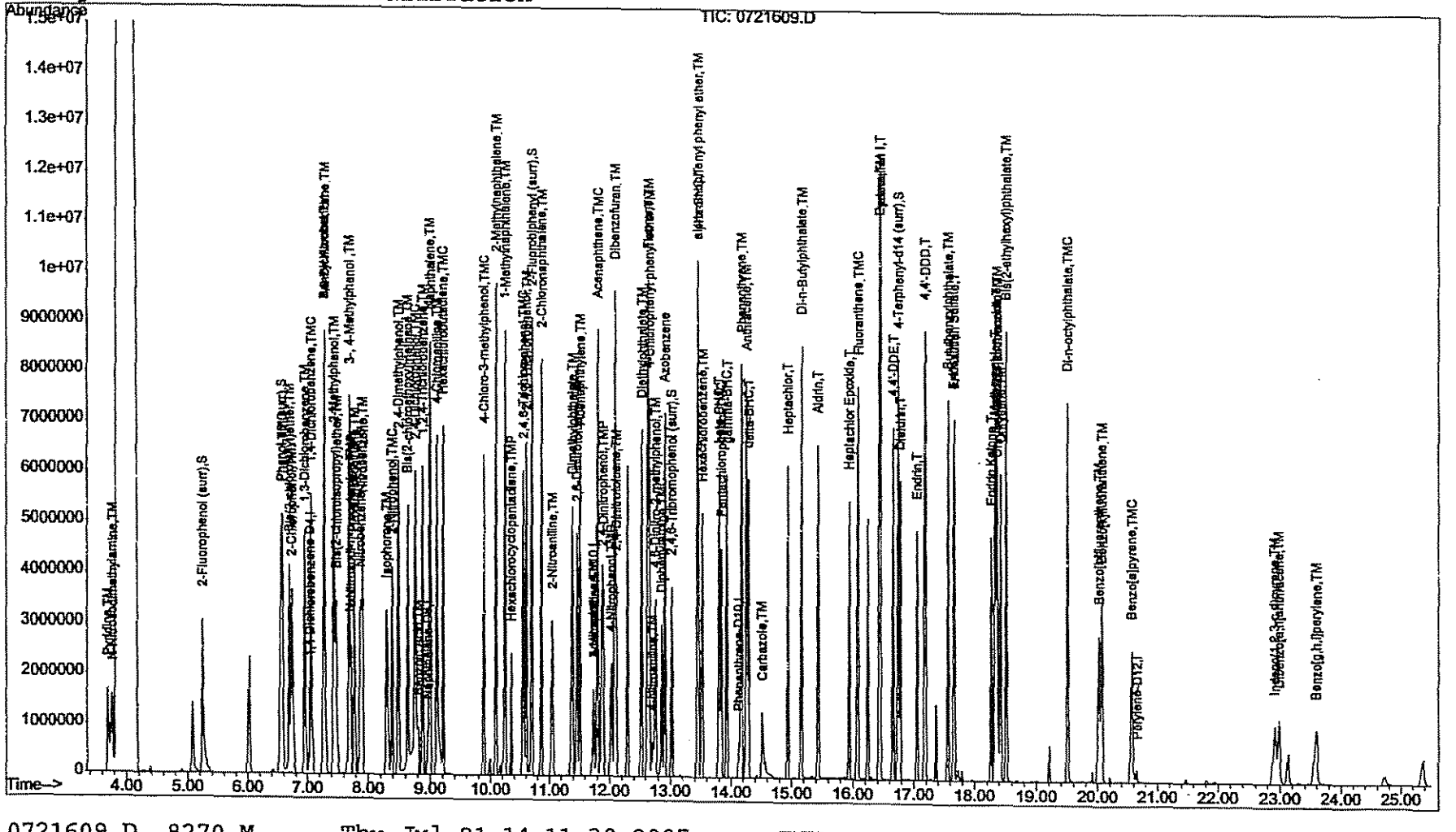
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D
Acq On : 21 Jul 2005 1:16 pm
Sample : SVCAL48
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005

Vial: 9
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

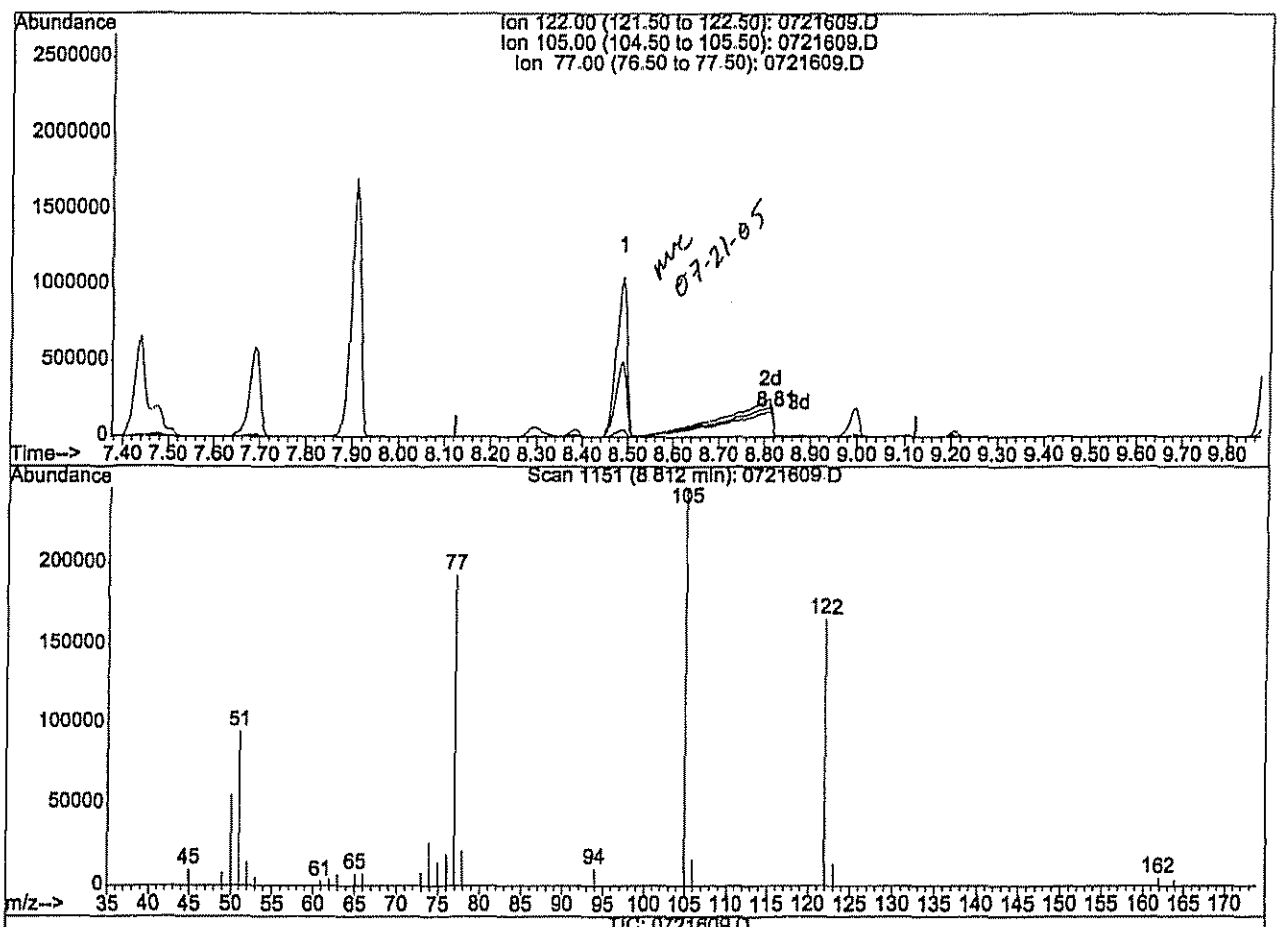


0721609.D 8270.M Thu Jul 21 14:11:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration



(23) Benzoic Acid (TM)

8.81min 59.39ug/mL m

response 1289762

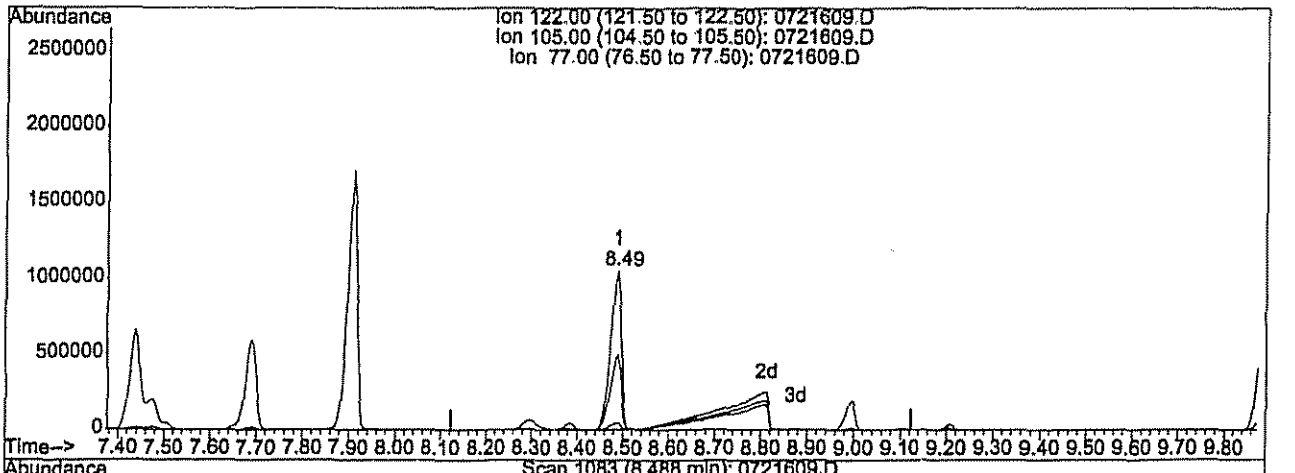
Ion	Exp%	Act%
122.00	100	100
105.00	143.90	5.75#
77.00	115.50	62.60#
0.00	0.00	0.00

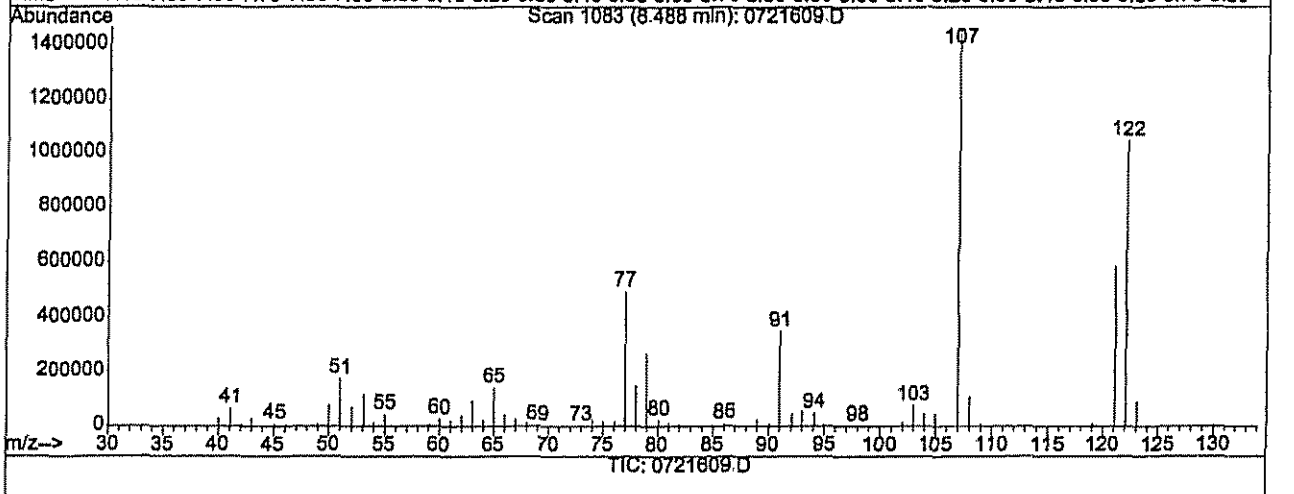
0721609.D 8270.M Thu Jul 21 14:02:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (TM)

8.49min 78.66ug/mL

response 1708411

Ion	Exp%	Act%
122.00	100	100
105.00	143.90	4.34#
77.00	115.50	47.26#
0.00	0.00	0.00

0721609.D 8270.M Thu Jul 21 14:02:19 2005 ENV

625-BN CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	134	-0.06
2	TM	Pyridine	0.901	0.893	0.9	113	0.00
3	TM	N-Nitrosodimethylamine	0.655	0.700	-6.9	149	0.00
4	TMC	Phenol	1.779	1.781	-0.1	136	-0.04
5	TM	Bis(2-chloroethyl)ether	1.409	1.325	6.0	130	-0.05
6	TM	2-Chlorophenol	1.358	1.291	4.9	132	-0.05
7	TM	Benzyl Alcohol	0.953	0.926	2.8	136	-0.05
8	TM	1,3-Dichlorobenzene	1.321	1.242	6.0	129	-0.06
9	TMC	1,4-Dichlorobenzene	1.350	1.283	5.0	130	-0.06
10	TM	1,2-Dichlorobenzene	1.227	1.155	5.9	130	-0.06
11	TM	2-Methylphenol	1.115	1.084	2.8	135	-0.05
12	TM	3-, 4-Methylphenol	1.622	1.573	3.0	135	-0.05
13	TM	Bis(2-chloroisopropyl)ether	1.614	1.555	3.7	134	-0.06
14	TMP	N-Nitrosodi-n-propylamine	0.847	0.849	-0.2	143	-0.06
15	TM	Hexachloroethane	0.526	0.509	3.2	136	-0.06
16	S	2-Fluorophenol (surr)	1.011	1.002	0.9	132	-0.03
17	S	Phenol-d6 (surr)	1.599	1.583	1.0	136	-0.04
18	I	Naphthalene-D8	1.000	1.000	0.0	129	-0.06
19	TM	Nitrobenzene	0.377	0.373	1.1	135	-0.06
20	TM	Isophorone	0.568	0.553	2.6	132	-0.05
21	TMC	2-Nitrophenol	0.185	0.174	5.9	132	-0.06
22	TM	2,4-Dimethylphenol	0.262	0.260	0.8	131	-0.05
23	TM	Benzoic Acid	0.152	0.195	-28.3#	172	0.00
24	TM	Bis(2-chloroethoxy)methane	0.379	0.361	4.7	130	-0.06
25	TMC	2,4-Dichlorophenol	0.274	0.271	1.1	134	-0.05
26	TM	1,2,4-Trichlorobenzene	0.286	0.269	5.9	128	-0.06
27	TM	Naphthalene	0.874	0.828	5.3	129	-0.06
28	TM	4-Chloroaniline	0.142	0.159	-12.0	185	-0.07
29	TMC	Hexachlorobutadiene	0.176	0.164	6.8	128	-0.06
30	TMC	4-Chloro-3-methylphenol	0.320	0.330	-3.1	141	-0.05
31	TM	2-Methylnaphthalene	0.636	0.610	4.1	130	-0.06
32	S	Nitrobenzene-d5 (surr)	0.141	0.140	0.7	136	-0.06
33	I	Acenaphthene-d10	1.000	1.000	0.0	129	-0.06
34	TMP	Hexachlorocyclopentadiene	0.111	0.157	-41.4#	223#	-0.06
35	TMC	2,4,6-Trichlorophenol	0.360	0.360	0.0	136	-0.06
36	TM	2,4,5-Trichlorophenol	0.365	0.390	-6.8	148	-0.06
37	TM	2-Chloronaphthalene	0.989	0.949	4.0	132	-0.06
38	TM	2-Nitroaniline	0.337	0.335	0.6	139	-0.05
39	TM	3-Nitroaniline	0.063	0.084	-33.3#	270#	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TM	1-Methylnaphthalene	0.984	0.918	6.7	126	-0.06
41	TM	Dimethylphthalate	1.144	1.110	3.0	132	-0.06
42	TM	Acenaphthylene	1.287	1.205	6.4	125	-0.06
43	TM	2,6-Dinitrotoluene	0.246	0.250	-1.6	137	-0.06
44	TMC	Acenaphthene	0.884	0.838	5.2	130	-0.06
45	TMP	2,4-Dinitrophenol	0.115	0.158	-37.4#	181	-0.05
46	TMP	4-Nitrophenol	0.146	0.189	-29.5#	185	-0.04
47	TM	Dibenzofuran	1.425	1.396	2.0	135	-0.06
48	TM	2,4-Dinitrotoluene	0.304	0.319	-4.9	143	-0.05
49	TM	Fluorene	1.056	1.053	0.3	137	-0.06
50	TM	Diethylphthalate	1.046	1.032	1.3	134	-0.06
51	TM	4-Chlorophenyl phenyl ether	0.553	0.537	2.9	130	-0.06
52	TM	4-Nitroaniline	0.117	0.132	-12.8	149	-0.05
53	S	2-Fluorobiphenyl (surr)	1.128	1.058	6.2	129	-0.06
54	S	2,4,6-Tribromophenol (surr)	0.118	0.128	-8.5	145	-0.06
55	I	Phenanthrene-D10	1.000	1.000	0.0	143	-0.06
56	TM	4,6-Dinitro-2-methylphenol	0.122	0.143	-17.2	174	-0.05
57	TMC	Diphenylamine	0.408	0.327	19.9	125	-0.06
58	TM	4-bromophenyl phenyl ether	0.219	0.196	10.5	135	-0.06
59	TM	Hexachlorobenzene	0.210	0.183	12.9	130	-0.06
60	TMC	Pentachlorophenol	0.139	0.141	-1.4	151	-0.06
61	TM	Phenanthrene	0.995	0.952	4.3	143	-0.06
62	TM	Carbazole	0.404	0.281	30.4#	115	-0.06
63	TM	Anthracene	0.921	0.887	3.7	145	-0.06
64		Azobenzene	0.865	0.793	8.3	139	-0.06
65	TM	Di-n-Butylphthalate	1.211	1.097	9.4	134	-0.06
66	TMC	Fluoranthene	1.007	0.972	3.5	145	-0.06
67	T	alpha-BHC	0.156	0.138	11.5	130	-0.06
68	T	beta-BHC	0.124	0.119	4.0	143	-0.05
69	T	gamma-BHC	0.128	0.119	7.0	135	-0.06
70	T	delta-BHC	0.116	0.112	3.4	140	-0.06
71	T	Heptachlor	0.150	0.146	2.7	144	-0.07
72	T	Aldrin	0.160	0.152	5.0	137	-0.07
73	T	Heptachlor Epoxide	0.055	0.050#	9.1	129	-0.06
74	T	Endosulfan I	0.040	0.038#	5.0	127	-0.06
75	T	4,4'-DDE	0.234	0.218	6.8	137	-0.06
76	T	Dieldrin	0.200	0.188	6.0	136	-0.07
77	T	Endrin	0.034	0.032#	5.9	144	-0.07
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.412	0.365	11.4	130	-0.07

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.051	0.047#	7.8	128	-0.07
81	T	4,4'-DDT	0.318	0.290	8.8	138	-0.06
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.042	0.036#	14.3	118	-0.06
84	T	Methoxychlor	0.685	0.601	12.3	124	-0.07
85	I	Chrysene-D12	1.000	1.000	0.0	124	-0.06
86	TM	Pyrene	1.433	1.510	-5.4	143	-0.06
87	TM	Butylbenzylphthalate	0.700	0.695	0.7	131	-0.06
88	TM	Benzo[a]anthracene	1.261	1.201	4.8	124	-0.06
89	TM	3,3'-Dichlorobenzidine	0.193	0.146	24.4#	99	-0.06
90	TM	Chrysene	1.044	1.005	3.7	123	-0.06
91	TM	Bis(2-ethylhexyl)phthalate	0.935	0.915	2.1	130	-0.06
92	S	4-Terphenyl-d14 (surr)	0.991	1.022	-3.1	140	-0.06
93	I	Perylene-D12	1.000	1.000	0.0	94	-0.08
94	TMC	Di-n-octylphthalate	2.322	2.780	-19.7	117	-0.07
95	TM	Benzo[b]fluoranthene	1.355	1.408	-3.9	102	-0.07
96	TM	Benzo[k]fluoranthene	1.284	1.334	-3.9	100	-0.08
97	TMC	Benzo[a]pyrene	1.046	1.036	1.0	99	-0.08
98	TM	Indeno(1,2,3-c,d)pyrene	0.608	0.490	19.4	81	-0.12
99	TM	Dibenzo[a,h]anthracene	0.551	0.462	16.2	87	-0.12
100	TM	Benzo[g,h,i]perylene	0.639	0.572	10.5	88	-0.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07.27.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	192305	4.00	ug/mL	-0.06
18) Naphthalene-D8	8.89	136	771257	4.00	ug/mL	-0.06
33) Acenaphthene-d10	11.67	164	452317	4.00	ug/mL	-0.06
55) Phenanthrene-D10	14.05	188	699961	4.00	ug/mL	-0.06
85) Chrysene-D12	18.30	240	431962	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	218159	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.18	112	385360	7.93	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	79.30%	
17) Phenol-d6 (surr)	6.47	99	608885	7.92	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	79.20%	
32) Nitrobenzene-d5 (surr)	7.80	128	215883	7.96	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	79.60%	
53) 2-Fluorobiphenyl (surr)	10.62	172	956800	7.50	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	75.00%	
54) 2,4,6-Tribromophenol (surr	12.94	330	115431	8.68	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	86.80%	
92) 4-Terphenyl-d14 (surr)	16.66	244	883107	8.26	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	82.60%	

Target Compounds						Qvalue
2) Pyridine	3.61	79	343520	7.22	ug/mL#	60
3) N-Nitrosodimethylamine	3.61	74	269090	8.55	ug/mL	97
4) Phenol	6.49	94	685012	8.01	ug/mL	98
5) Bis(2-chloroethyl)ether	6.61	93	509726	7.53	ug/mL	98
6) 2-Chlorophenol	6.67	128	496693	7.61	ug/mL	97
7) Benzyl Alcohol	7.19	108	356306	7.77	ug/mL	99
8) 1,3-Dichlorobenzene	6.88	146	477660	7.52	ug/mL	99
9) 1,4-Dichlorobenzene	6.99	146	493534	7.60	ug/mL	96
10) 1,2-Dichlorobenzene	7.21	146	444245	7.53	ug/mL	98
11) 2-Methylphenol	7.36	107	416819	7.77	ug/mL	98
12) 3-, 4-Methylphenol	7.60	107	604971	7.76	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.40	45	598166	7.71	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.60	70	326403	8.01	ug/mL	99
15) Hexachloroethane	7.71	117	195717	7.73	ug/mL	100
19) Nitrobenzene	7.83	77	576074	7.92	ug/mL	98
20) Isophorone	8.20	82	852670	7.79	ug/mL	99
21) 2-Nitrophenol	8.31	139	268486	7.51	ug/mL	95
22) 2,4-Dimethylphenol	8.41	122	401479	7.96	ug/mL	98
23) Benzoic Acid	8.62	122	300737	10.25	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.55	93	556188	7.62	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25) 2,4-Dichlorophenol	8.68	162	418355	7.91	ug/mL	99
26) 1,2,4-Trichlorobenzene	8.81	180	415107	7.53	ug/mL	99
27) Naphthalene	8.92	128	1277066	7.58	ug/mL	99
28) 4-Chloroaniline	9.05	127	244973	9.56	ug/mL	94
29) Hexachlorobutadiene	9.14	225	253576	7.45	ug/mL	98
30) 4-Chloro-3-methylphenol	9.81	107	508461	8.23	ug/mL	95
31) 2-Methylnaphthalene	10.01	142	941103	7.67	ug/mL	98
34) Hexachlorocyclopentadiene	10.28	237	142347	11.00	ug/mL	93
35) 2,4,6-Trichlorophenol	10.48	196	325358	7.98	ug/mL	99
36) 2,4,5-Trichlorophenol	10.53	196	353231	8.55	ug/mL	96
37) 2-Chloronaphthalene	10.78	162	858855	7.68	ug/mL	99
38) 2-Nitroaniline	10.97	65	302998	7.95	ug/mL	99
39) 3-Nitroaniline	11.65	138	76064	16.06	ug/mL	92
40) 1-Methylnaphthalene	10.17	142	830747	7.47	ug/mL	100
41) Dimethylphthalate	11.30	163	1003880	7.76	ug/mL	98
42) Acenaphthylene	11.44	152	1090262	7.49	ug/mL	99
43) 2,6-Dinitrotoluene	11.38	165	226533	8.14	ug/mL	99
44) Acenaphthene	11.72	153	757770	7.58	ug/mL	98
45) 2,4-Dinitrophenol	11.83	184	142896	10.17	ug/mL#	83
46) 4-Nitrophenol	11.94	109	170718	10.37	ug/mL	95
47) Dibenzofuran	12.01	168	1263006	7.84	ug/mL	99
48) 2,4-Dinitrotoluene	12.02	165	288409	8.38	ug/mL#	81
49) Fluorene	12.55	166	952919	7.98	ug/mL	97
50) Diethylphthalate	12.44	149	934012	7.89	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.58	204	485450	7.77	ug/mL	97
52) 4-Nitroaniline	12.63	138	119606m	9.06	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.67	198	200851	9.42	ug/mL	99
57) Diphenylamine	12.78	169	458009	6.41	ug/mL	96
58) 4-bromophenyl phenyl ether	13.36	248	274010	7.14	ug/mL	97
59) Hexachlorobenzene	13.44	284	255522	6.96	ug/mL	99
60) Pentachlorophenol	13.77	266	197945	8.17	ug/mL	95
61) Phenanthrene	14.09	178	1332648	7.65	ug/mL	100
62) Carbazole	14.45	167	393547	5.57	ug/mL	99
63) Anthracene	14.17	178	1241418	7.70	ug/mL	99
64) Azobenzene	12.83	77	1109940	7.33	ug/mL	100
65) Di-n-Butylphthalate	15.08	149	1535491	7.24	ug/mL	100
66) Fluoranthene	16.00	202	1360915	7.72	ug/mL	98
67) alpha-BHC	13.37	183	193037	7.06	ug/mL	98
68) beta-BHC	13.72	181	166493	7.67	ug/mL	100
69) gamma-BHC	13.85	183	166574	7.41	ug/mL	98
70) delta-BHC	14.22	183	156982	7.76	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

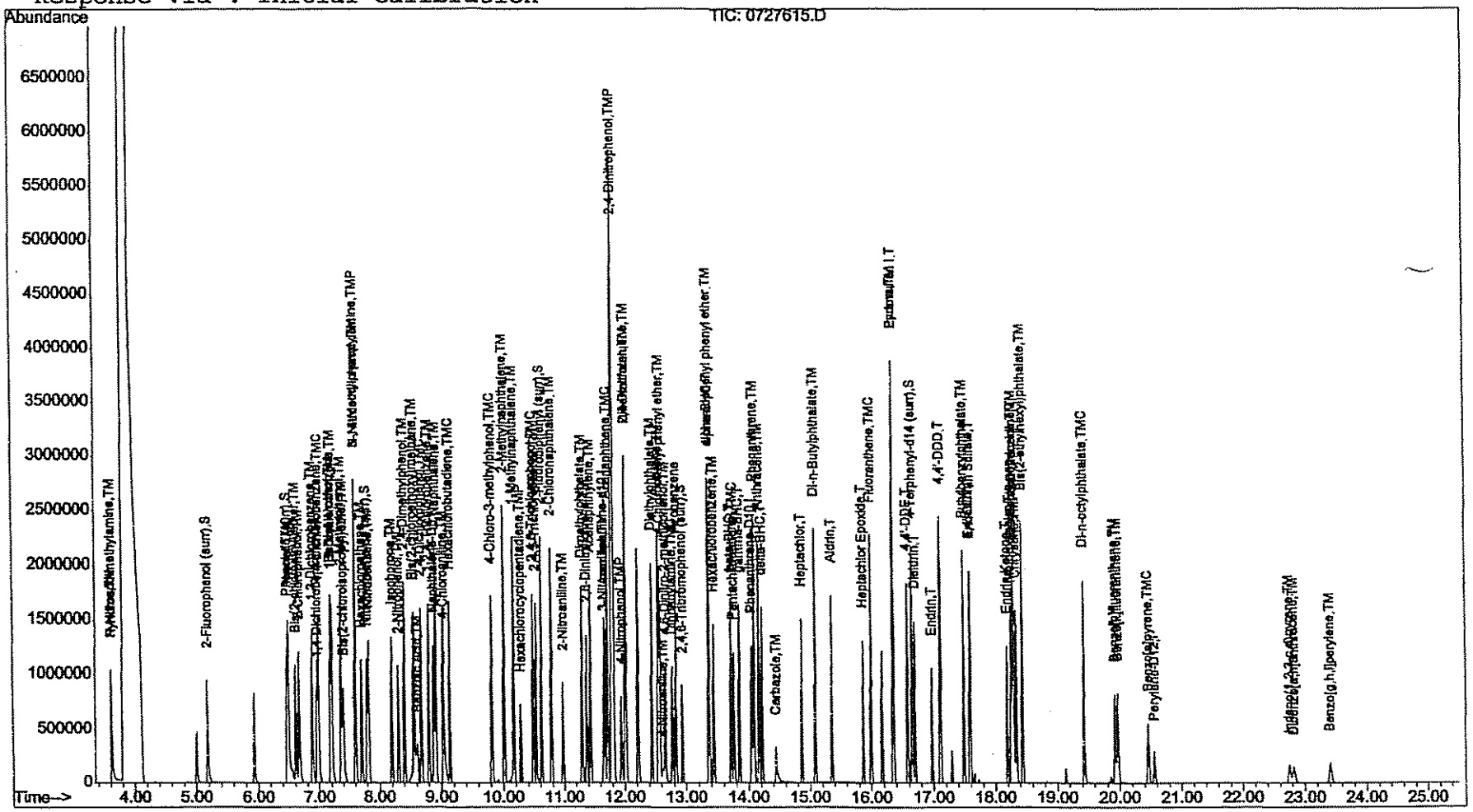
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.86	100	204780	7.81 ug/mL	98
72)	Aldrin	15.36	66	212416	7.57 ug/mL	98
73)	Heptachlor Epoxide	15.87	353	69557	7.25 ug/mL	98
74)	Endosulfan I	16.36	195	53368	7.55 ug/mL	96
75)	4,4'-DDE	16.58	246	304615	7.44 ug/mL	100
76)	Dieldrin	16.70	79	263668	7.54 ug/mL	100
77)	Endrin	16.98	263	45037	7.51 ug/mL	96
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.11	235	511146	7.10 ug/mL	100
80)	Endosulfan Sulfate	17.58	272	65603	7.31 ug/mL	98
81)	4,4'-DDT	17.59	235	406588	7.31 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.20	317	51052	6.87 ug/mL	98
84)	Methoxychlor	18.25	227	840973	7.02 ug/mL#	1
86)	Pyrene	16.35	202	1304725	8.43 ug/mL	99
87)	Butylbenzylphthalate	17.48	149	600833	7.95 ug/mL	97
88)	Benzo[a]anthracene	18.28	228	1037231	7.61 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.28	252	125985	6.06 ug/mL	92
90)	Chrysene	18.34	228	868033	7.70 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.44	149	790625	7.83 ug/mL	98
94)	Di-n-octylphthalate	19.42	149	1213106	9.58 ug/mL	100
95)	Benzo[b]fluoranthene	19.92	252	614526	8.31 ug/mL	98
96)	Benzo[k]fluoranthene	19.97	252	582059	8.31 ug/mL	98
97)	Benzo[a]pyrene	20.46	252	451980	7.92 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.75	276	213982	6.45 ug/mL	95
99)	Dibenzo[a,h]anthracene	22.82	278	201554	6.70 ug/mL	98
100)	Benzo[g,h,i]perylene	23.41	276	249522	7.16 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727615.D Vial: 2
Acq On : 27 Jul 2005 4:58 pm Operator: MRC
Sample : SVCVS8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 27 20:19 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



625-BN QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727627.D Vial: 27
Acq On : 27 Jul 2005 11:52 pm Operator: MRC
Sample : PB3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:10 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08.01.05

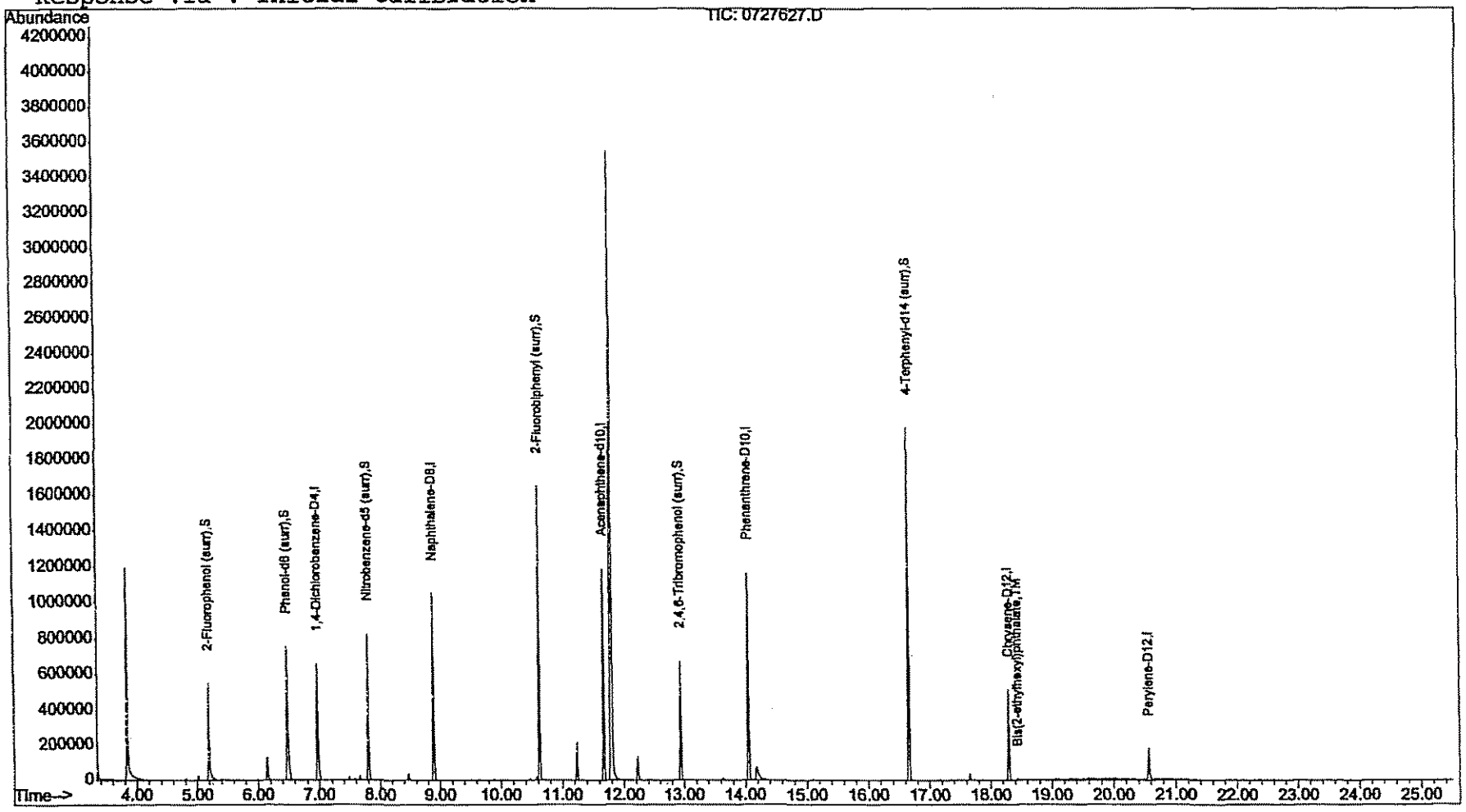
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	164631	4.00	ug/mL	-0.05
18) Naphthalene-D8	8.89	136	665321	4.00	ug/mL	-0.05
33) Acenaphthene-d10	11.67	164	395031	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.05	188	611222	4.00	ug/mL	-0.06
85) Chrysene-D12	18.29	240	285529	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	145621	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.18	112	248840	5.98	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	59.80%	
17) Phenol-d6 (surr)	6.48	99	438577	6.66	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	66.60%	
32) Nitrobenzene-d5 (surr)	7.80	128	154567	6.60	ug/mL	-0.05
Spiked Amount 10.000			Recovery	=	66.00%	
53) 2-Fluorobiphenyl (surr)	10.62	172	714835	6.42	ug/mL	-0.05
Spiked Amount 10.000			Recovery	=	64.20%	
54) 2,4,6-Tribromophenol (surr	12.94	330	93638	8.06	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	80.60%	
92) 4-Terphenyl-d14 (surr)	16.66	244	854283	12.08	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	120.80%	
Target Compounds						Qvalue
91) Bis(2-ethylhexyl)phthalate	18.44	149	5456	0.08	ug/mL#	48

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727627.D Vial: 27
Acq On : 27 Jul 2005 11:52 pm Operator: MRC
Sample : PB3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:10 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727627.D Vial: 27
Acq On : 27 Jul 2005 11:52 pm Operator: MRC
Sample : PB3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Toluene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.84	6.70 ug/mL	1586440	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	91
5	Toluene	92	C7H8	000108-88-3	91

****
Peak Number 2 1-Propene, 3,3,3-trichloro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.14	0.72 ug/mL	170026	1,4-Dichlorobenzene-D4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 3,3,3-trichloro-	144	C3H3Cl3	002233-00-3	78
2	Quinuclidine	111	C7H13N	000100-76-5	5
3	3-Buten-2-one, 4-(1-aziridinyl)-	111	C6H9NO	018277-57-1	4
4	Pyrrolidine, 1-(1-propenyl)-	111	C7H13N	013937-88-7	4
5	Triallylvinylsilane	178	C11H18Si	000000-00-0	4

****
Peak Number 3 2-Fluoro-6-nitrophenol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	0.67 ug/mL	255917	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluoro-6-nitrophenol	157	C6H4FNO3	001526-17-6	22
2	2-Hydroxy-5-ethyl-3-methylcyclopent	140	C8H12O2	082782-00-1	18
3	8-Nonynoic acid	154	C9H14O2	030964-01-3	14
4	Ethanamine, N-cyclopentylidene-	111	C7H13N	054966-05-1	14
5	1,12-Tridecadiene	180	C13H24	021964-48-7	12

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727627.D Vial: 27
Acq On : 27 Jul 2005 11:52 pm Operator: MRC
Sample : PB3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 4 Disulfide, diethyl Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	14.43 ug/mL	5494980	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Disulfide, diethyl	122	C4H10S2	000110-81-6	30
2	Pyrimidine, 5-methyl-, 1-oxide	110	C5H6N2O	017758-50-8	27
3	Diazene, dicyclohexyl-, 1,2-dioxide	226	C12H22N2O2	003378-45-8	16
4	Spiro[3.3]heptane-2,6-dione	124	C7H8O2	020061-23-8	16
5	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	16

****

Peak Number 5 2-Cyclohexen-1-one, oxime Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	0.50 ug/mL	188724	Acenaphthene-d10	11.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-one, oxime	111	C6H9NO	003349-62-0	25
2	1,4:5,8-Dimethanonaphthalen-9-ol, 1	176	C12H16O	028068-45-3	23
3	1-Penten-3-yne	66	C5H6	000646-05-9	7
4	3-Penten-1-yne, (E)-	66	C5H6	002004-69-5	7
5	3-Penten-1-yne, (E)-	66	C5H6	002004-69-5	7

****

Peak Number 6 Phenol, 3-fluoro-4-nitro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.18	0.63 ug/mL	235275	Phenanthrene-D10	14.05

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 3-fluoro-4-nitro-	157	C6H4FNO3	000394-41-2	9
2	5-Amino-1-ethylpyrazole	111	C5H9N3	003528-58-3	9
3	Formamide, N,N-bis(2-cyanoethyl)-	151	C7H9N3O	003445-84-9	9
4	Azocine, 1,2,3,4,7,8-hexahydro-	111	C7H13N	057502-48-4	7
5	4-Fluoro-2-nitrophenol	157	C6H4FNO3	000394-33-2	5

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6072705\0727627.D Vial: 27
Acq On : 27 Jul 2005 11:52 pm Operator: MRC
Sample : PB3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Heptane, 3-ethyl-5-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	0.21 ug/mL	35607	Chrysene-D12	18.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-ethyl-5-methyl-	142	C10H22	052896-90-9	9
2	Azetidine, 1-methyl-	71	C4H9N	004923-79-9	5
3	2,6-Piperazinedione, monooxime	129	C4H7N3O2	056700-84-6	4
4	Thiophene, 2-nitro-	129	C4H3NO2S	000609-40-5	4
5	1,3,5-Triazine-2,4,6(1H,3H,5H)-trio	129	C3H3N3O3	000108-80-5	4

****
Peak Number 8 Ethane, isocyano- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.86	0.24 ug/mL	20808	Perylene-D12	20.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, isocyano-	55	C3H5N	000624-79-3	1
2	1-Nonanamine	143	C9H21N	000112-20-9	1
3	1-Heptanamine	115	C7H17N	000111-68-2	1
4	Propanoic acid, heptyl ester	172	C10H20O2	002216-81-1	1
5	1-Hepten-4-ol	114	C7H14O	003521-91-3	1

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 27 Jul 2005 11:52 pm
Data File: C:\HPCHEM\1\DATA\6072705\0727627.D
Name: PB3298 x1
Misc: 8270 [3520-3298]
Method: C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Toluene	3.84	6.7	ug/mL	1586440	ISTD01	6.97	946561	4.0
1-Propene, 3,3,3-tri	6.14	0.7	ug/mL	170026	ISTD01	6.97	946561	4.0
2-Fluoro-6-nitrophen	11.24	0.7	ug/mL	255917	ISTD03	11.67	1523610	4.0
Disulfide, diethyl	11.80	14.4	ug/mL	5494980	ISTD03	11.67	1523610	4.0
2-Cyclohexen-1-one,	12.22	0.5	ug/mL	188724	ISTD03	11.67	1523610	4.0
Phenol, 3-fluoro-4-n	14.18	0.6	ug/mL	235275	ISTD04	14.05	1484870	4.0
Heptane, 3-ethyl-5-m	17.66	0.2	ug/mL	35607	ISTD05	18.29	688120	4.0
Ethane, isocyano-	19.86	0.2	ug/mL	20808	ISTD06	20.56	350452	4.0

0727627.D 8270.M Mon Aug 01 10:14:06 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727628.D Vial: 28
Acq On : 28 Jul 2005 12:26 am Operator: MRC
Sample : LCS3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08-01-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	140326	4.00 ug/mL	-0.05
18) Naphthalene-D8	8.89	136	579637	4.00 ug/mL	-0.05
33) Acenaphthene-d10	11.68	164	336046	4.00 ug/mL	-0.05
55) Phenanthrene-D10	14.05	188	533884	4.00 ug/mL	-0.05
85) Chrysene-D12	18.30	240	260834	4.00 ug/mL	-0.06
93) Perylene-D12	20.56	264	135321	4.00 ug/mL	-0.08
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.18	112	304807	8.60 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 86.00%		
17) Phenol-d6 (surr)	6.48	99	523405	9.33 ug/mL	-0.03
Spiked Amount 10.000			Recovery = 93.30%		
32) Nitrobenzene-d5 (surr)	7.80	128	185086	9.08 ug/mL	-0.05
Spiked Amount 10.000			Recovery = 90.80%		
53) 2-Fluorobiphenyl (surr)	10.62	172	866502	9.14 ug/mL	-0.05
Spiked Amount 10.000			Recovery = 91.40%		
54) 2,4,6-Tribromophenol (surr	12.95	330	106404	10.77 ug/mL	-0.05
Spiked Amount 10.000			Recovery = 107.70%		
92) 4-Terphenyl-d14 (surr)	16.65	244	847026	13.11 ug/mL	-0.06
Spiked Amount 10.000			Recovery = 131.10%		

Target Compounds					Qvalue
3) N-Nitrosodimethylamine	3.57	74	224102	9.75 ug/mL	97
4) Phenol	6.50	94	539039	8.64 ug/mL	96
5) Bis(2-chloroethyl)ether	6.62	93	414537	8.39 ug/mL	98
6) 2-Chlorophenol	6.67	128	392349	8.23 ug/mL	96
7) Benzyl Alcohol	7.20	108	277886	8.31 ug/mL	97
8) 1,3-Dichlorobenzene	6.88	146	220851	4.77 ug/mL	99
9) 1,4-Dichlorobenzene	6.99	146	235243	4.97 ug/mL	99
10) 1,2-Dichlorobenzene	7.21	146	231654	5.38 ug/mL	96
11) 2-Methylphenol	7.37	107	353265	9.03 ug/mL	99
12) 3-, 4-Methylphenol	7.61	107	868463	15.26 ug/mL#	87
13) Bis(2-chloroisopropyl)ethe	7.40	45	495683	8.75 ug/mL	97
14) N-Nitrosodi-n-propylamine	7.61	70	298789	10.05 ug/mL	99
15) Hexachloroethane	7.71	117	60846	3.30 ug/mL	98
19) Nitrobenzene	7.83	77	506589	9.27 ug/mL	99
20) Isophorone	8.20	82	918819	11.17 ug/mL	100
21) 2-Nitrophenol	8.31	139	216753	8.07 ug/mL	95
22) 2,4-Dimethylphenol	8.41	122	327703	8.65 ug/mL	99
23) Benzoic Acid	8.61	122	227912	10.34 ug/mL	98
24) Bis(2-chloroethoxy)methane	8.56	93	506057	9.22 ug/mL	99
25) 2,4-Dichlorophenol	8.69	162	350138	8.81 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727628.D Vial: 28
Acq On : 28 Jul 2005 12:26 am Operator: MRC
Sample : LCS3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2,4-Trichlorobenzene	8.81	180	277706	6.70	ug/mL	98
27)	Naphthalene	8.92	128	996660	7.87	ug/mL	99
28)	4-Chloroaniline	9.03	127	309757	15.66	ug/mL	93
29)	Hexachlorobutadiene	9.14	225	146733	5.74	ug/mL	99
30)	4-Chloro-3-methylphenol	9.82	107	434749	9.37	ug/mL	98
31)	2-Methylnaphthalene	10.02	142	722702	7.84	ug/mL	94
34)	Hexachlorocyclopentadiene	10.28	237	24979	3.48	ug/mL#	87
35)	2,4,6-Trichlorophenol	10.48	196	270422	8.93	ug/mL	97
36)	2,4,5-Trichlorophenol	10.54	196	297122	9.68	ug/mL	99
37)	2-Chloronaphthalene	10.79	162	764590	9.20	ug/mL	99
38)	2-Nitroaniline	10.98	65	290847	10.27	ug/mL	99
39)	3-Nitroaniline	11.64	138	176887	32.86	ug/mL#	98
40)	1-Methylnaphthalene	10.17	142	709860	8.59	ug/mL	100
41)	Dimethylphthalate	11.30	163	959708	9.99	ug/mL	99
42)	Acenaphthylene	11.44	152	1139142	10.54	ug/mL	99
43)	2,6-Dinitrotoluene	11.38	165	217399	10.51	ug/mL	97
44)	Acenaphthene	11.73	153	717981	9.67	ug/mL	99
45)	2,4-Dinitrophenol	11.82	184	79696	7.85	ug/mL	93
46)	4-Nitrophenol	11.96	109	164062	13.42	ug/mL	87
47)	Dibenzofuran	12.01	168	1088534	9.09	ug/mL	97
48)	2,4-Dinitrotoluene	12.02	165	289579	11.32	ug/mL#	79
49)	Fluorene	12.56	166	930140	10.49	ug/mL	96
50)	Diethylphthalate	12.45	149	929871	10.58	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.58	204	464023	10.00	ug/mL	96
52)	4-Nitroaniline	12.62	138	175443	17.90	ug/mL	87
56)	4,6-Dinitro-2-methylphenol	12.67	198	122282	7.52	ug/mL	92
57)	Diphenylamine	12.78	169	716756	13.16	ug/mL	97
58)	4-bromophenyl phenyl ether	13.36	248	260449	8.90	ug/mL	97
59)	Hexachlorobenzene	13.44	284	253881	9.07	ug/mL	99
60)	Pentachlorophenol	13.77	266	152966	8.27	ug/mL	95
61)	Phenanthrene	14.09	178	1283124	9.66	ug/mL	99
63)	Anthracene	14.17	178	1240721	10.09	ug/mL	99
64)	Azobenzene	12.84	77	1032949	8.95	ug/mL	99
65)	Di-n-Butylphthalate	15.09	149	1591483	9.85	ug/mL	100
66)	Fluoranthene	16.00	202	1329350	9.89	ug/mL	99
86)	Pyrene	16.36	202	1311514	14.03	ug/mL	99
87)	Butylbenzylphthalate	17.49	149	562552	12.32	ug/mL	96
88)	Benzo[a]anthracene	18.28	228	781640	9.50	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.28	252	188754	15.03	ug/mL	94
90)	Chrysene	18.34	228	735019	10.80	ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.44	149	707076	11.59	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727628.D Vial: 28
Acq On : 28 Jul 2005 12:26 am Operator: MRC
Sample : LCS3298 x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:11 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	19.43	149	967253	12.32 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	494040	10.78 ug/mL	98
96)	Benzo[k]fluoranthene	19.97	252	500345	11.52 ug/mL	99
97)	Benzo[a]pyrene	20.46	252	388013	10.97 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	216016	10.50 ug/mL	93
99)	Dibenzo[a,h]anthracene	22.83	278	217314	11.65 ug/mL	97
100)	Benzo[g,h,i]perylene	23.42	276	225863	10.45 ug/mL	96

(#) = qualifier out of range (m) = manual integration

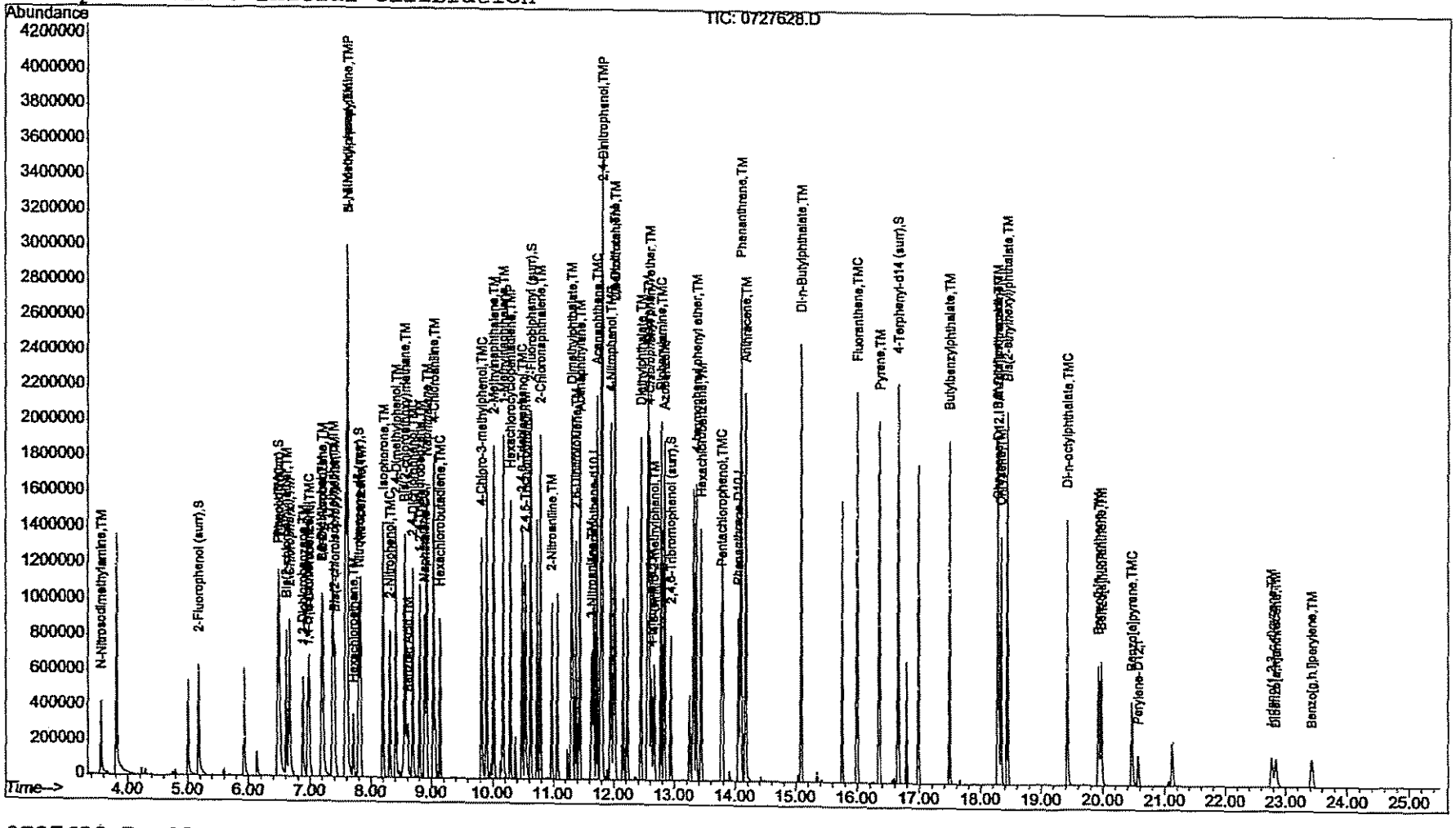
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727628.D
Acq On : 28 Jul 2005 12:26 am
Sample : LCS3298 x1
Misc : 8270 [3520-3298]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:11 2005

Vial: 28
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727629.D Vial: 29
Acq On : 28 Jul 2005 1:00 am Operator: MRC
Sample : G111-769-1G MS x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:12 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 08.01.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	153444	4.00	ug/mL	-0.06
18) Naphthalene-D8	8.89	136	631221	4.00	ug/mL	-0.06
33) Acenaphthene-d10	11.67	164	361141	4.00	ug/mL	-0.06
55) Phenanthrene-D10	14.05	188	574307	4.00	ug/mL	-0.06
85) Chrysene-D12	18.30	240	300039	4.00	ug/mL	-0.06
93) Perylene-D12	20.56	264	162887	4.00	ug/mL	-0.08
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.19	112	371777	9.59	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 95.90%			
17) Phenol-d6 (surr)	6.48	99	606962	9.90	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 99.00%			
32) Nitrobenzene-d5 (surr)	7.80	128	217226	9.78	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 97.80%			
53) 2-Fluorobiphenyl (surr)	10.62	172	962642	9.45	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 94.50%			
54) 2,4,6-Tribromophenol (surr	12.95	330	114925	10.82	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 108.20%			
92) 4-Terphenyl-d14 (surr)	16.65	244	902189	12.14	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 121.40%			

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	3.57	74	266677	10.62	ug/mL	97
4) Phenol	6.50	94	637383	9.34	ug/mL	98
5) Bis(2-chloroethyl)ether	6.61	93	496570	9.19	ug/mL	100
6) 2-Chlorophenol	6.67	128	466681	8.96	ug/mL	97
7) Benzyl Alcohol	7.19	108	331237	9.06	ug/mL	98
8) 1,3-Dichlorobenzene	6.88	146	302576	5.97	ug/mL	99
9) 1,4-Dichlorobenzene	6.99	146	328250	6.34	ug/mL	97
10) 1,2-Dichlorobenzene	7.21	146	313629	6.66	ug/mL	96
11) 2-Methylphenol	7.37	107	398540	9.32	ug/mL	99
12) 3-, 4-Methylphenol	7.61	107	1001485	16.09	ug/mL#	87
13) Bis(2-chloroisopropyl)ethe	7.40	45	594243	9.60	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.60	70	357180	10.99	ug/mL	99
15) Hexachloroethane	7.71	117	99244	4.92	ug/mL	95
19) Nitrobenzene	7.83	77	625372	10.51	ug/mL	100
20) Isophorone	8.20	82	1064599	11.89	ug/mL	99
21) 2-Nitrophenol	8.31	139	256996	8.78	ug/mL	95
22) 2,4-Dimethylphenol	8.41	122	312760	7.58	ug/mL	98
23) Benzoic Acid	8.63	122	272138	11.34	ug/mL	95
24) Bis(2-chloroethoxy)methane	8.56	93	587501	9.83	ug/mL	99
25) 2,4-Dichlorophenol	8.69	162	403337	9.32	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727629.D
Acq On : 28 Jul 2005 1:00 am
Sample : G111-769-1G MS x1
Misc : 8270 [3520-3298]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:12 2005

Vial: 29
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2,4-Trichlorobenzene	8.81	180	372014	8.24	ug/mL	100
27)	Naphthalene	8.92	128	1656634	12.02	ug/mL	100
28)	4-Chloroaniline	9.03	127	352773	16.35	ug/mL	92
29)	Hexachlorobutadiene	9.14	225	209795	7.53	ug/mL	98
30)	4-Chloro-3-methylphenol	9.82	107	493078	9.75	ug/mL	98
31)	2-Methylnaphthalene	10.02	142	1016832	10.13	ug/mL	98
34)	Hexachlorocyclopentadiene	10.29	237	32200	3.94	ug/mL#	85
35)	2,4,6-Trichlorophenol	10.49	196	308153	9.47	ug/mL	96
36)	2,4,5-Trichlorophenol	10.54	196	338153	10.25	ug/mL	97
37)	2-Chloronaphthalene	10.78	162	875182	9.80	ug/mL	98
38)	2-Nitroaniline	10.98	65	330436	10.86	ug/mL	98
39)	3-Nitroaniline	11.65	138	189604	32.81	ug/mL	97
40)	1-Methylnaphthalene	10.17	142	862481	9.71	ug/mL	99
41)	Dimethylphthalate	11.31	163	1062873	10.29	ug/mL	99
42)	Acenaphthylene	11.45	152	1275741	10.98	ug/mL	98
43)	2,6-Dinitrotoluene	11.38	165	240930	10.84	ug/mL	95
44)	Acenaphthene	11.73	153	812303	10.18	ug/mL	99
45)	2,4-Dinitrophenol	11.82	184	107459	9.63	ug/mL#	86
46)	4-Nitrophenol	11.96	109	185862	14.14	ug/mL#	84
47)	Dibenzofuran	12.01	168	1233978	9.59	ug/mL	97
48)	2,4-Dinitrotoluene	12.03	165	324696	11.81	ug/mL#	76
49)	Fluorene	12.56	166	1051784	11.03	ug/mL	98
50)	Diethylphthalate	12.44	149	1034584	10.95	ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.58	204	507186	10.17	ug/mL	95
52)	4-Nitroaniline	12.63	138	196098	18.61	ug/mL	92
56)	4,6-Dinitro-2-methylphenol	12.67	198	159383	9.11	ug/mL	95
57)	Diphenylamine	12.78	169	774059	13.21	ug/mL	96
58)	4-bromophenyl phenyl ether	13.36	248	294540	9.36	ug/mL	98
59)	Hexachlorobenzene	13.44	284	277667	9.22	ug/mL	99
60)	Pentachlorophenol	13.78	266	179896	9.04	ug/mL	92
61)	Phenanthrene	14.09	178	1436100	10.05	ug/mL	99
63)	Anthracene	14.18	178	1374380	10.39	ug/mL	99
64)	Azobenzene	12.83	77	1163805	9.37	ug/mL	99
65)	Di-n-Butylphthalate	15.09	149	1753235	10.08	ug/mL	99
66)	Fluoranthene	16.00	202	1501014	10.38	ug/mL	98
86)	Pyrene	16.35	202	1477555	13.74	ug/mL	100
87)	Butylbenzylphthalate	17.49	149	646427	12.31	ug/mL	97
88)	Benzo[a]anthracene	18.28	228	930096	9.83	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.28	252	212272	14.70	ug/mL	91
90)	Chrysene	18.34	228	864770	11.05	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.44	149	833409	11.88	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727629.D Vial: 29
Acq On : 28 Jul 2005 1:00 am Operator: MRC
Sample : G111-769-1G MS x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:12 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	19.43	149	1153101	12.20 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	602350	10.91 ug/mL	99
96)	Benzo[k]fluoranthene	19.97	252	620360	11.87 ug/mL	98
97)	Benzo[a]pyrene	20.46	252	462608	10.86 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	267762	10.82 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.83	278	262610	11.69 ug/mL	95
100)	Benzo[g,h,i]perylene	23.42	276	266194	10.23 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

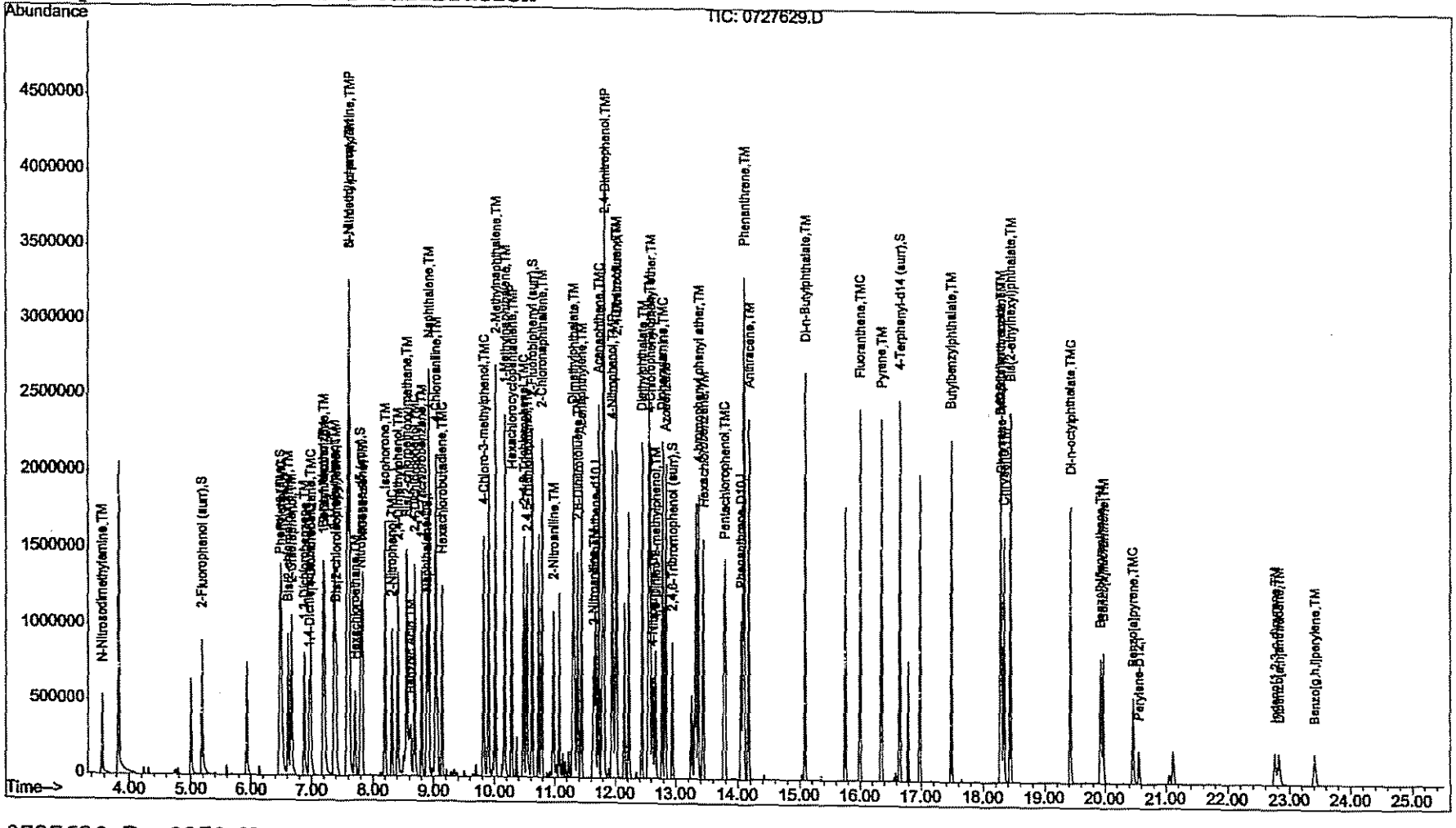
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727629.D
Acq On : 28 Jul 2005 1:00 am
Sample : G111-769-1G MS x1
Misc : 8270 [3520-3298]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:12 2005

Vial: 29
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727630.D Vial: 30
Acq On : 28 Jul 2005 1:35 am Operator: MRC
Sample : G111-769-1H MSD x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:13 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.97	152	157671	4.00 ug/mL	-0.05
18) Naphthalene-D8	8.89	136	634169	4.00 ug/mL	-0.05
33) Acenaphthene-d10	11.67	164	357683	4.00 ug/mL	-0.05
55) Phenanthrene-D10	14.05	188	576659	4.00 ug/mL	-0.05
85) Chrysene-D12	18.30	240	311057	4.00 ug/mL	-0.06
93) Perylene-D12	20.56	264	174046	4.00 ug/mL	-0.08
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.19	112	364900	9.16 ug/mL	-0.03
Spiked Amount 10.000			Recovery =	91.60%	
17) Phenol-d6 (surr)	6.48	99	625110	9.92 ug/mL	-0.03
Spiked Amount 10.000			Recovery =	99.20%	
32) Nitrobenzene-d5 (surr)	7.80	128	227595	10.20 ug/mL	-0.05
Spiked Amount 10.000			Recovery =	102.00%	
53) 2-Fluorobiphenyl (surr)	10.62	172	999263	9.90 ug/mL	-0.05
Spiked Amount 10.000			Recovery =	99.00%	
54) 2,4,6-Tribromophenol (surr	12.95	330	122695	11.67 ug/mL	-0.05
Spiked Amount 10.000			Recovery =	116.70%	
92) 4-Terphenyl-d14 (surr)	16.66	244	947290	12.30 ug/mL	-0.06
Spiked Amount 10.000			Recovery =	123.00%	

Target Compounds					Qvalue
3) N-Nitrosodimethylamine	3.57	74	282015	10.93 ug/mL	96
4) Phenol	6.50	94	641291	9.14 ug/mL	96
5) Bis(2-chloroethyl)ether	6.62	93	494979	8.92 ug/mL	99
6) 2-Chlorophenol	6.67	128	464124	8.67 ug/mL	96
7) Benzyl Alcohol	7.19	108	333346	8.87 ug/mL	97
8) 1,3-Dichlorobenzene	6.89	146	273766	5.26 ug/mL	97
9) 1,4-Dichlorobenzene	6.99	146	294799	5.54 ug/mL	96
10) 1,2-Dichlorobenzene	7.21	146	293646	6.07 ug/mL	95
11) 2-Methylphenol	7.37	107	399576	9.09 ug/mL	98
12) 3-, 4-Methylphenol	7.62	107	1021073	15.97 ug/mL#	85
13) Bis(2-chloroisopropyl)ethe	7.40	45	594521	9.34 ug/mL	96
14) N-Nitrosodi-n-propylamine	7.61	70	363542	10.88 ug/mL	100
15) Hexachloroethane	7.71	117	88551	4.27 ug/mL	97
19) Nitrobenzene	7.83	77	621340	10.39 ug/mL	99
20) Isophorone	8.20	82	1094318	12.16 ug/mL	99
21) 2-Nitrophenol	8.31	139	258669	8.80 ug/mL	94
22) 2,4-Dimethylphenol	8.41	122	305333	7.36 ug/mL	96
23) Benzoic Acid	8.62	122	277900	11.52 ug/mL	92
24) Bis(2-chloroethoxy)methane	8.56	93	590667	9.84 ug/mL	99
25) 2,4-Dichlorophenol	8.69	162	409959	9.43 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727630.D Vial: 30
Acq On : 28 Jul 2005 1:35 am Operator: MRC
Sample : G1l1-769-1H MSD x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:13 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2,4-Trichlorobenzene	8.81	180	366834	8.09	ug/mL	98
27)	Naphthalene	8.93	128	1690758	12.21	ug/mL	99
28)	4-Chloroaniline	9.04	127	347817	16.06	ug/mL	94
29)	Hexachlorobutadiene	9.14	225	205085	7.33	ug/mL	98
30)	4-Chloro-3-methylphenol	9.82	107	508436	10.01	ug/mL	96
31)	2-Methylnaphthalene	10.02	142	1042500	10.33	ug/mL	96
34)	Hexachlorocyclopentadiene	10.29	237	41990	4.83	ug/mL#	98
35)	2,4,6-Trichlorophenol	10.49	196	317397	9.85	ug/mL	96
36)	2,4,5-Trichlorophenol	10.54	196	342364	10.48	ug/mL	100
37)	2-Chloronaphthalene	10.79	162	898959	10.16	ug/mL	99
38)	2-Nitroaniline	10.98	65	340622	11.30	ug/mL	96
39)	3-Nitroaniline	11.65	138	192865	33.32	ug/mL#	94
40)	1-Methylnaphthalene	10.17	142	883366	10.04	ug/mL	99
41)	Dimethylphthalate	11.31	163	1111491	10.87	ug/mL	99
42)	Acenaphthylene	11.45	152	1321775	11.48	ug/mL	99
43)	2,6-Dinitrotoluene	11.38	165	255095	11.58	ug/mL	96
44)	Acenaphthene	11.73	153	831893	10.53	ug/mL	97
45)	2,4-Dinitrophenol	11.83	184	111061	10.01	ug/mL	96
46)	4-Nitrophenol	11.96	109	200899	15.44	ug/mL	86
47)	Dibenzofuran	12.01	168	1273065	9.99	ug/mL	97
48)	2,4-Dinitrotoluene	12.03	165	336607	12.37	ug/mL#	82
49)	Fluorene	12.56	166	1090303	11.55	ug/mL	98
50)	Diethylphthalate	12.45	149	1079688	11.54	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.58	204	530758	10.74	ug/mL	93
52)	4-Nitroaniline	12.63	138	198001	18.98	ug/mL	96
56)	4,6-Dinitro-2-methylphenol	12.67	198	164396	9.36	ug/mL	94
57)	Diphenylamine	12.78	169	839065	14.26	ug/mL	96
58)	4-bromophenyl phenyl ether	13.36	248	306694	9.71	ug/mL	99
59)	Hexachlorobenzene	13.44	284	286709	9.48	ug/mL	96
60)	Pentachlorophenol	13.78	266	186581	9.34	ug/mL	94
61)	Phenanthrene	14.10	178	1477555	10.30	ug/mL	100
63)	Anthracene	14.18	178	1441540	10.85	ug/mL	100
64)	Azobenzene	12.83	77	1208847	9.70	ug/mL	99
65)	Di-n-Butylphthalate	15.09	149	1801891	10.32	ug/mL	99
66)	Fluoranthene	16.00	202	1560715	10.75	ug/mL	99
86)	Pyrene	16.35	202	1541524	13.83	ug/mL	99
87)	Butylbenzylphthalate	17.49	149	675810	12.41	ug/mL	99
88)	Benzo[a]anthracene	18.28	228	999129	10.19	ug/mL	99
89)	3,3'-Dichlorobenzidine	18.28	252	213077	14.23	ug/mL	94
90)	Chrysene	18.34	228	934273	11.51	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.44	149	874046	12.02	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072705\0727630.D Vial: 30
Acq On : 28 Jul 2005 1:35 am Operator: MRC
Sample : G111-769-1H MSD x1 Inst : MSD6
Misc : 8270 [3520-3298] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:13 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	19.43	149	1242753	12.30 ug/mL	100
95)	Benzo[b]fluoranthene	19.93	252	684985	11.62 ug/mL	99
96)	Benzo[k]fluoranthene	19.97	252	666330	11.93 ug/mL	99
97)	Benzo[a]pyrene	20.47	252	521156	11.45 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.76	276	267294	10.11 ug/mL	94
99)	Dibenzo[a,h]anthracene	22.83	278	274472	11.44 ug/mL	96
100)	Benzo[g,h,i]perylene	23.42	276	271209	9.76 ug/mL	93

(#) = qualifier out of range (m) = manual integration

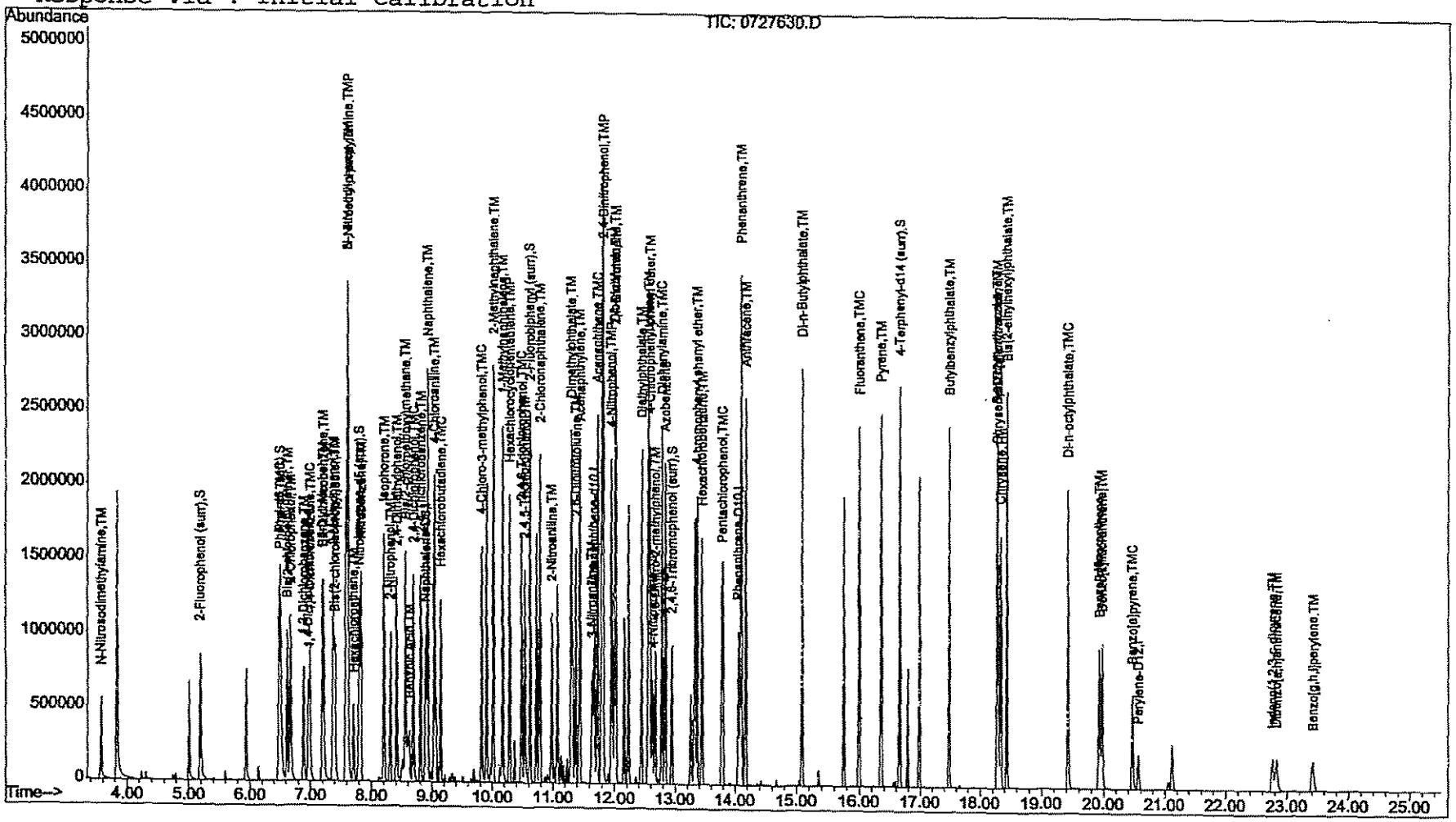
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072705\0727630.D
Acq On : 28 Jul 2005 1:35 am
Sample : G111-769-1H MSD x1
Misc : 8270 [3520-3298]
MS Integration Params: LSCINT.P
Quant Time: Aug 1 9:13 2005

Vial: 30
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



0727630.D 8270.M Mon Aug 01 09:48:37 2005 ENV

625-BN Prep, Standard, Run Logs

3520 / 8270 WATER Log

Paradigm Analytical Lab

Batch: 3520/8270 - 3298

Lab ID	EXT	Date	CH2Cl2 Lot #	Initial Vol (mL)	Spike ID	Spike Vol (mL)	Final Vol (mL)	Tech's Init
pb3298	pb	2005-07-26	co493	500	SR: 8270srsvo3w20c	SR: .5	5	nio
G111-769-1H	msd	2005-07-26	co493	200	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
G111-769-1G	ms	2005-07-26	co493	200	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
lcs3298	lcs	2005-07-26	co493	500	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
G240-36-9E	dup	2005-07-26	co493	500	SR: 8270srsvo3w20c	SR: .5	5	nio
G311-133-1J		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G311-133-2J		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G311-133-3J		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G311-133-4J		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G161-2080-1G		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G175-492-1E		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G161-2083-1J		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G161-2083-2G		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G161-2085-1L		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G122-2627-1M		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G311-130-1M		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G128-1570-12E		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G240-36-1H		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G240-36-2H		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G240-36-3H		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G240-36-4F		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G240-36-9D		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G477-36-1B		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio
G111-769-1F		2005-07-26	co493	500	8270srsvo3w20c	.5	5	nio

Comments: _____

_____

Technician's Signature: _____ Date: _____

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072105

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0721601.D	DFTPP 50ng	7/21/2005 8:54	OK			MRC	
0721602.D	SVCAL1	7/21/2005 9:18				MRC	
0721603.D	SVCAL2	7/21/2005 9:52				MRC	
0721604.D	SVCAL4	7/21/2005 10:25				MRC	
0721605.D	SVCAL6	7/21/2005 11:00	8270			MRC	
0721606.D	SVCAL8	7/21/2005 11:34	GOOD			MRC	
0721607.D	SVCAL12	7/21/2005 12:08				MRC	
0721608.D	SVCAL24	7/21/2005 12:42				MRC	
0721609.D	SVCAL48	7/21/2005 13:16				MRC	
0721611.D	DFTPP 50ng	7/21/2005 14:14	OK			MRC	
0721612.D	SVCVS8	7/21/2005 14:36	OK			MRC	
0721613.D	SVCVS24	7/21/2005 15:11	OK			MRC	
0721614.D	PB3011 x1	7/21/2005 15:45		OK		MRC	
0721615.D	PB3152 x1	7/21/2005 16:19				MRC	
0721616.D	G414-52-1B x1	7/21/2005 16:53			NO	MRC	
0721617.D	G414-52-2B x1	7/21/2005 17:27				MRC	
0721618.D	G414-52-1F x1	7/21/2005 18:01			OK	MRC	
0721619.D	G414-52-2F x1	7/21/2005 18:36			NO	MRC	
0721620.D	PB3275 x1	7/21/2005 19:09			OK	MRC	
0721621.D	LCS3275 x1	7/21/2005 19:43				MRC	

Analyst: MC

Page Number: 1901

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0727601.D	DFTPP 50ng	7/27/2005 7:53	OK			MRC	
0727602.D	SVCVS8	7/27/2005 8:15	OK			MRC	
0727603.D	SVCVS24	7/27/2005 8:49	OK			MRC	
0727604.D	G161-2078-11L x1	7/27/2005 9:23		OK	OK	MRC	
0727605.D	G161-2081-1H x1	7/27/2005 9:57				MRC	
0727606.D	G161-2081-2H x1	7/27/2005 10:31				MRC	
0727607.D	G161-2081-3H x1	7/27/2005 11:05				MRC	
0727608.D	G161-2081-4E x1	7/27/2005 11:39				MRC	
0727609.D	G161-2081-5E x1	7/27/2005 12:13				MRC	
0727610.D	G161-2081-6E x1	7/27/2005 12:48				MRC	
0727611.D	G161-2081-7E x1	7/27/2005 13:22				MRC	
0727612.D	G161-2081-8F x1	7/27/2005 13:56				MRC	
0727613.D	G161-2080-1G x1	7/27/2005 14:31				MRC	
0727614.D	DFTPP 50ng	7/27/2005 16:35	OK			MRC	
0727615.D	SVCVS8	7/27/2005 16:58	OK			MRC	
0727616.D	SVCVS24	7/27/2005 17:32	OK			MRC	
0727617.D	G414-58-1I x1	7/27/2005 18:07		OK	NO	MRC	CONFIRMS
0727618.D	G414-58-2I x1	7/27/2005 18:41				MRC	
0727619.D	G414-58-4K x1	7/27/2005 19:16				MRC	
0727620.D	G414-58-5I x1	7/27/2005 19:49				MRC	

Analyst: MC

Page Number: 1907

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0727621.D	G414-58-6M x1	7/27/2005 20:23		OK	NO	MRC	CONFIRMS
0727622.D	PB3303 x1	7/27/2005 20:58			OK	MRC	
0727623.D	LCS3303 x1	7/27/2005 21:33				MRC	
0727624.D	G161-2081-3I MS x1	7/27/2005 22:07				MRC	
0727625.D	G161-2081-3J MSD x1	7/27/2005 22:42				MRC	
0727626.D	G161-2081-4F DUP x1	7/27/2005 23:17				MRC	
0727627.D	PB3298 x1	7/27/2005 23:52				MRC	
0727628.D	LCS3298 x1	7/28/2005 0:26				MRC	
0727629.D	G111-769-1G MS x1	7/28/2005 1:00				MRC	
0727630.D	G111-769-1H MSD x1	7/28/2005 1:35				MRC	
0727631.D	G240-36-9E DUP x1	7/28/2005 2:09				MRC	
0727632.D	G175-492-1E x1	7/28/2005 2:44				MRC	
0727633.D	G128-1570-12E x1	7/28/2005 3:19				MRC	x10
0727634.D	G122-2627-1M x1	7/28/2005 3:53				MRC	
0727635.D	G311-130-1M x1	7/28/2005 4:28				MRC	
0727636.D	G111-769-1F x1	7/28/2005 5:02				MRC	
0727637.D	G161-2083-1J x1	7/28/2005 5:37				MRC	
0727638.D	G161-2083-2G x1	7/28/2005 6:11				MRC	
0727639.D	G161-2085-1L x1	7/28/2005 6:46		↓	↓	MRC	

Analyst: MC

Page Number: 1908

EPH Sample Raw Data

External Standard Report

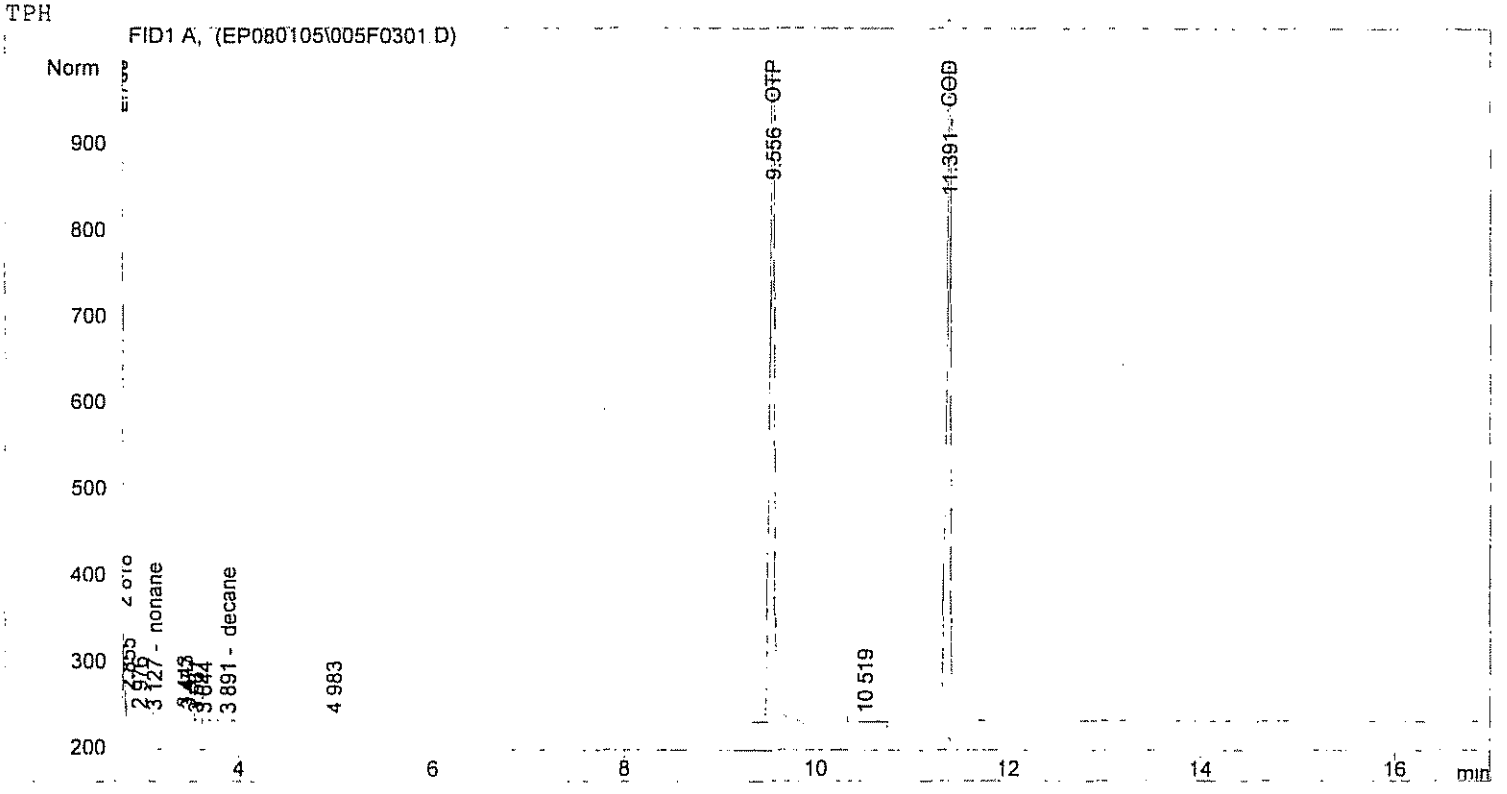
ata File Name : C:\HPCHEM\1\DATA\EP080105\005F0301.D
perator : DCS
nstrument : GC6
ample Name : G161-2083-10 x1 T
un Time Bar Code: 146954
cquired on : 1 Aug 05 5:17:49 PM
eport Created on: 2 Aug 2005 8:48:35 AM
ast Recalib on : 27 Jul 2005 10:59:25 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 3
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP080105\005F0301.D

et Time	Area	Type	Width	Ref#	ng	Name
3.127	2.61762	VV	0.01	1	3.242e-6	nonane
3.891	3.60321	VP	0.04	2	4.463e-6	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.898	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.556	2860.01074	VB	0.03	9	0.00354	OTP
9.581	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
11.057	0.00000	XX	0.00	12	0.00000	docosane
11.391	2616.91138	PB	0.03	13	0.00324	COD
11.888	0.00000	XX	0.00	14	0.00000	tetracosane
12.658	0.00000	XX	0.00	15	0.00000	hexacosane
13.284	0.00000	XX	0.00	16	0.00000	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.565	172.54617	PV	0.01	1	0.00021	* uncalibrated *
0.595	2090.07861	VVS	8.59e	2	0.00259	* uncalibrated *
1.844	7.97416e7	VVS	0.98	3	98.76141	* uncalibrated *
1.877	8.36279e5	VVS	0.01	4	1.03575	* uncalibrated *
1.943	2.89916e4	VVS	0.09	5	0.03591	* uncalibrated *
2.013	1.29829e4	VVS	0.03	6	0.01608	* uncalibrated *
2.057	1.00854e4	VVS	0.03	7	0.01249	* uncalibrated *
2.110	1.20845e4	VVS	0.04	8	0.01497	* uncalibrated *
2.167	1.05796e4	VVS	0.04	9	0.01310	* uncalibrated *
2.220	1.39449e4	VVS	0.06	10	0.01727	* uncalibrated *
2.295	8687.38281	VVS	0.03	11	0.01076	* uncalibrated *
2.331	6873.03076	VVS	0.03	12	0.00851	* uncalibrated *
2.381	7423.12549	VVS	0.03	13	0.00919	* uncalibrated *
2.417	6331.87744	VVS	0.02	14	0.00784	* uncalibrated *
2.465	1.01399e4	VVS	0.05	15	0.01256	* uncalibrated *
2.549	9148.90527	VVS	0.04	16	0.01133	* uncalibrated *
2.589	5239.74463	VVS	0.02	17	0.00649	* uncalibrated *
2.628	4412.75684	VVS	0.02	18	0.00547	* uncalibrated *
2.665	3551.51074	VVS	0.02	19	0.00440	* uncalibrated *
2.703	2209.06152	VVS	0.02	20	0.00274	* uncalibrated *
2.749	2016.50281	VVS	0.03	21	0.00250	* uncalibrated *
2.783	1195.49109	VBAS	0.01	22	0.00148	* uncalibrated *
2.818	57.59775	BP	0.01	23	7.134e-5	* uncalibrated *
2.855	14.28846	VP	0.01	24	1.770e-5	* uncalibrated *
2.976	3.85066	VP	0.02	25	4.769e-6	* uncalibrated *

```
==========================================================================
Injection Date  : 8/1/2005 5:17:49 PM          Seq. Line :   3
Sample Name     : 146954 xl T                   Location : Vial 5
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080105.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.127	VV	0.0167	2.61762	3.242e-6	nonane
2	3.891	VP	0.0430	3.60321	4.463e-6	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.898		0.0000	0.00000	0.00000	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.556	VB	0.0369	2860.01074	0.00354	OTP
10	9.581		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	11.057		0.0000	0.00000	0.00000	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.391	PB	0.0363	2616.91138	0.00324	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5483.14295 6.791e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.565	PV	0.0106	172.54617	0.00021	?
2	0.595	VV S	8.59e-3	2090.07861	0.00259	?
3	1.844	VV S	0.9881	7.97416e7	98.76141	?
4	1.877	VV S	0.0179	8.36279e5	1.03575	?
5	1.943	VV S	0.0903	2.89916e4	0.03591	?
6	2.013	VV S	0.0397	1.29829e4	0.01608	?
7	2.057	VV S	0.0376	1.00854e4	0.01249	?
8	2.110	VV S	0.0430	1.20845e4	0.01497	?
9	2.167	VV S	0.0403	1.05796e4	0.01310	?
10	2.220	VV S	0.0626	1.39449e4	0.01727	?
11	2.295	VV S	0.0332	8687.38281	0.01076	?
12	2.331	VV S	0.0325	6873.03076	0.00851	?
13	2.381	VV S	0.0360	7423.12549	0.00919	?
14	2.417	VV S	0.0280	6331.87744	0.00784	?
15	2.465	VV S	0.0593	1.01399e4	0.01256	?
16	2.549	VV S	0.0487	9148.90527	0.01133	?
17	2.589	VV S	0.0291	5239.74463	0.00649	?
18	2.628	VV S	0.0248	4412.75684	0.00547	?
19	2.665	VV S	0.0286	3551.51074	0.00440	?
20	2.703	VV S	0.0290	2209.06152	0.00274	?
21	2.749	VV S	0.0387	2016.50281	0.00250	?
22	2.783	VBAS	0.0186	1195.49109	0.00148	?
23	2.818	BP	0.0131	57.59775	7.134e-5	?
24	2.855	VP	0.0126	14.28846	1.770e-5	?
25	2.976	VP	0.0213	3.85066	4.769e-6	?
26	3.443	VV	0.0185	9.80377	1.214e-5	?
27	3.477	VV	0.0303	13.81071	1.710e-5	?
28	3.561	VV	0.0388	7.28750	9.026e-6	?
29	3.644	VP	0.0427	4.75343	5.887e-6	?
30	4.983	BB	0.0283	4.48797	5.558e-6	?
31	10.519	PP	0.0784	20.18322	2.500e-5	?

Uncalib. totals : 8.07361e7 99.9932

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

EPH Calibration Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/05/05

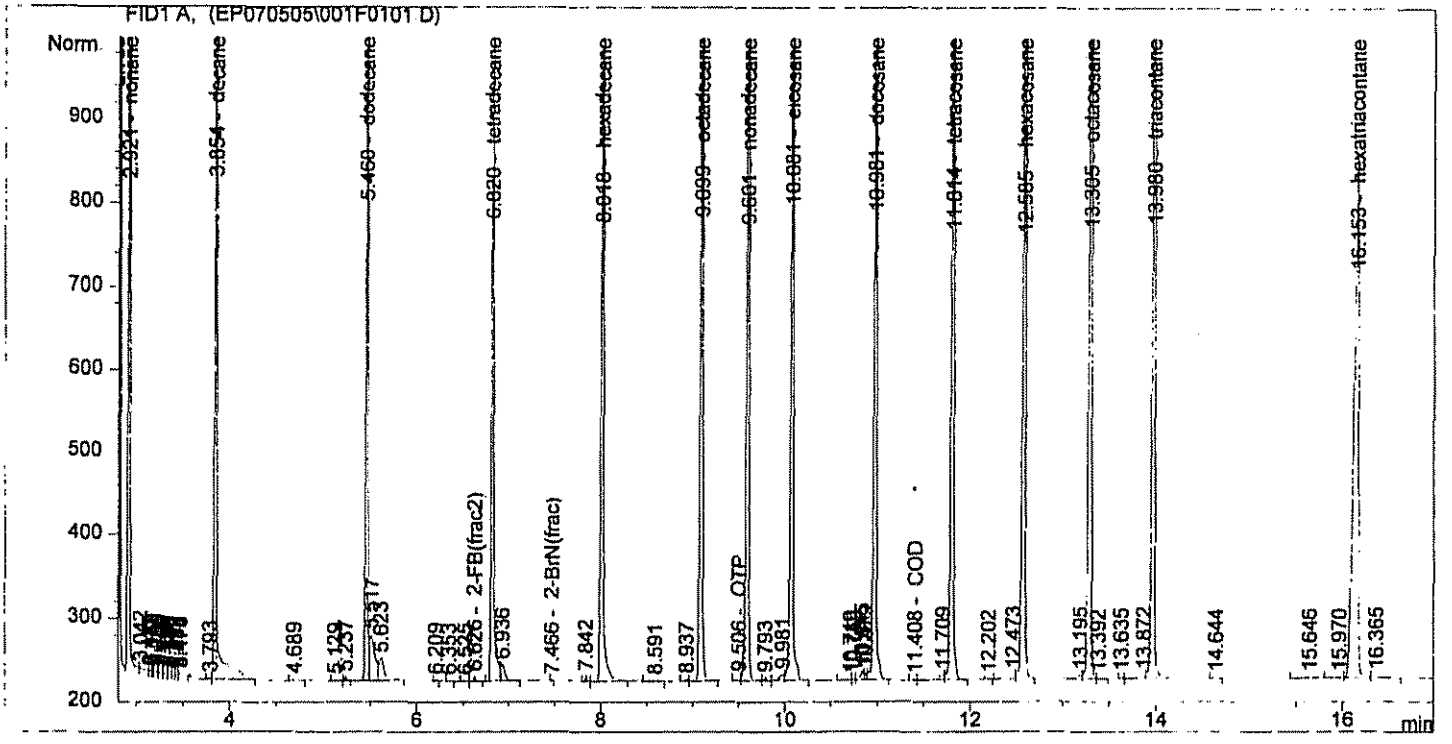
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	60	7.5
C_{19}-C_{36} Aliphatics	80	5.0
C_{11}-C_{22} Aromatics	340	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 7/5/2005 5:16:20 PM          Seq. Line :   1
Sample Name     : K 40 ical                     Location : Vial 1
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:01 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.921	VV	0.0197	1464.65564	0.00317	nonane
2	3.854	VB	0.0222	1790.48792	0.00388	decane
3	5.460	BV	0.0199	1430.95947	0.00310	dodecane
4	6.626	VP	0.0206	7.48499	1.621e-5	2-FB(frac2)
5	6.820	PV	0.0236	1657.45227	0.00359	tetradecane
6	7.466	VV	0.0199	2.18315	4.729e-6	2-BrN(frac)
7	8.018	VB	0.0238	1709.42993	0.00370	hexadecane
8	9.099	VB	0.0229	1746.29138	0.00378	octadecane
9	9.506	VV	0.0437	12.64255	2.739e-5	OTP
10	9.601	VV	0.0239	1754.91345	0.00380	nonadecane
11	10.081	VB	0.0244	1773.12976	0.00384	eicosane
12	10.981	VB	0.0259	1833.64990	0.00397	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.408	VV	0.0237	2.83018	6.131e-6	COD
14	11.814	VB	0.0248	1945.84497	0.00422	tetracosane
15	12.585	VB	0.0272	2059.55396	0.00446	hexacosane
16	13.305	VV	0.0265	2119.26245	0.00459	octacosane
17	13.980	VB	0.0281	2144.35718	0.00465	triacontane
18	16.153	VV	0.0479	2181.43066	0.00473	hexatriacontane

Totals : 2.56366e4 5.554e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.503	VV	9.75e-3	3.87532	8.395e-6	?
2	0.544	VP	0.0316	5.63474	1.221e-5	?
3	0.586	VV	0.0117	5.04803	1.094e-5	?
4	1.338	VV S	0.5681	4.23728e7	91.79164	?
5	1.414	VV S	0.0360	2.38145e5	0.51589	?
6	1.457	VV S	0.0292	1.72238e5	0.37312	?
7	1.504	VV S	0.0458	1.76019e5	0.38131	?
8	1.546	VV S	0.0287	1.69392e5	0.36695	?
9	1.601	VV S	0.0366	1.57039e5	0.34019	?
10	1.641	VV S	0.0241	1.22659e5	0.26571	?
11	1.695	VV S	0.0763	2.72603e5	0.59054	?
12	1.755	VV S	0.0195	7.76362e4	0.16818	?
13	1.793	VV S	0.0376	1.34446e5	0.29125	?
14	1.831	VV S	0.0335	1.07141e5	0.23210	?
15	1.872	VV S	0.0644	2.10311e5	0.45559	?
16	1.942	VV S	0.0296	1.10279e5	0.23890	?
17	1.985	VV S	0.0306	1.08470e5	0.23498	?
18	2.015	VV S	0.0404	1.33654e5	0.28953	?
19	2.067	VV S	0.0307	1.20978e5	0.26207	?
20	2.119	VV S	0.0361	1.11782e5	0.24215	?
21	2.157	VV S	0.0242	9.02686e4	0.19555	?
22	2.186	VV S	0.0382	1.11930e5	0.24247	?
23	2.253	VV S	0.0686	1.92893e5	0.41786	?
24	2.320	VV S	0.0480	1.25387e5	0.27162	?
25	2.368	VV S	0.0355	1.10194e5	0.23871	?
26	2.409	VV S	0.0360	1.19187e5	0.25819	?
27	2.517	VV S	0.0835	2.24705e5	0.48678	?
28	2.558	VV S	0.0325	8.51239e4	0.18440	?
29	2.604	VV S	0.0342	9.25618e4	0.20052	?
30	2.629	VV S	0.0267	6.85026e4	0.14840	?
31	2.661	VV S	0.0394	8.39189e4	0.18179	?
32	2.743	VV S	0.0265	2.02835e4	0.04394	?
33	2.783	VBAS	0.0257	1.49929e4	0.03248	?
34	3.042	VV	0.0527	24.43899	5.294e-5	?
35	3.145	VV	0.0199	4.62410	1.002e-5	?
36	3.171	VV	0.0203	4.47648	9.697e-6	?
37	3.206	VV	0.0349	9.59216	2.078e-5	?
38	3.246	VV	0.0331	6.90560	1.496e-5	?
39	3.298	VV	0.0312	6.23980	1.352e-5	?
40	3.356	VV	0.0351	5.85852	1.269e-5	?
41	3.399	VV	0.0249	4.84861	1.050e-5	?
42	3.438	VV	0.0249	5.46262	1.183e-5	?
43	3.475	VV	0.0709	18.64049	4.038e-5	?
44	3.793	VV	0.0224	2.90003	6.282e-6	?
45	4.689	BV	0.0429	7.91076	1.714e-5	?
46	5.129	PV	0.0449	4.37063	9.468e-6	?
47	5.237	VP	0.0226	6.70182	1.452e-5	?
48	5.517	VV	0.0540	222.93123	0.00048	?
49	5.623	VB	0.0528	102.38389	0.00022	?
50	6.209	BB	0.0195	2.34533	5.081e-6	?
51	6.353	BB	0.0243	1.79134	3.881e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	6.525	BP	0.0244	2.18359	4.730e-6	?
53	6.936	VB	0.0440	60.72083	0.00013	?
54	7.842	BP	0.0204	8.61642	1.867e-5	?
55	8.591	PP	0.0361	2.88831	6.257e-6	?
56	8.937	VV	0.0227	3.62133	7.845e-6	?
57	9.793	VB	0.0266	6.90356	1.496e-5	?
58	9.981	BV	0.0466	25.66632	5.560e-5	?
59	10.719	VV	0.0389	5.30762	1.150e-5	?
60	10.759	VV	0.0273	4.78670	1.037e-5	?
61	10.845	VV	0.0405	29.55837	6.403e-5	?
62	10.879	VV	0.0199	11.17134	2.420e-5	?
63	11.709	VV	0.0740	34.67511	7.512e-5	?
64	12.202	BB	0.0251	2.59528	5.622e-6	?
65	12.473	BV	0.0615	24.98494	5.412e-5	?
66	13.195	BV	0.0527	19.44730	4.213e-5	?
67	13.392	VP	0.0318	4.46860	9.680e-6	?
68	13.635	BV	0.0236	5.09245	1.103e-5	?
69	13.872	VV	0.0509	16.51588	3.578e-5	?
70	14.644	VV	0.0434	5.10860	1.107e-5	?
71	15.646	BB	0.0652	6.63919	1.438e-5	?
72	15.970	PV	0.0810	10.48173	2.271e-5	?
73	16.365	VB	0.0774	18.27855	3.960e-5	?

Uncalib. totals : 4.61364e7 99.9445

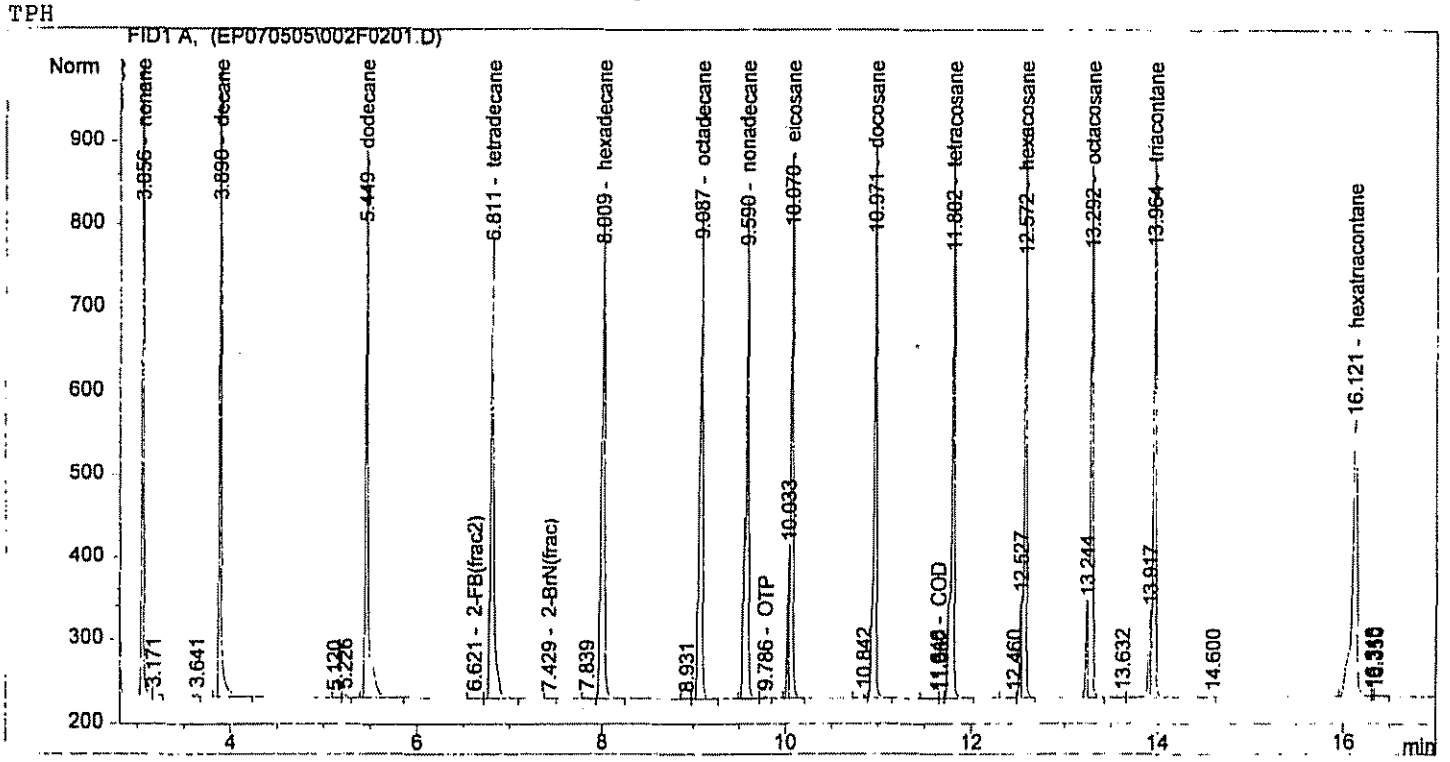
Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 5:43:12 PM          Seq. Line :   2
Sample Name     : K 20 ical                     Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:24 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.056	VV	0.0170	1266.11841	0.00168	nonane
2	3.890	PB	0.0194	1279.19031	0.00170	decane
3	5.449	VP	0.0291	1286.24854	0.00171	dodecane
4	6.621	VP	0.0412	6.88729	9.156e-6	2-FB(frac2)
5	6.811	VB	0.0320	1285.44092	0.00171	tetradecane
6	7.429	PB	0.0302	2.59298	3.447e-6	2-BrN(frac)
7	8.009	BB	0.0314	1288.99622	0.00171	hexadecane
8	9.087	VB	0.0319	1301.94788	0.00173	octadecane
9	9.590	VV	0.0316	1299.69238	0.00173	nonadecane
10	9.786	VP	0.0426	6.33639	8.423e-6	OTP
11	10.070	VB	0.0222	1026.11792	0.00136	eicosane
12	10.971	VP	0.0289	1297.54663	0.00172	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.646	VV	0.0566	4.78266	6.358e-6	COD
14	11.802	VB	0.0280	1300.71521	0.00173	tetracosane
15	12.572	VB	0.0246	1141.47192	0.00152	hexacosane
16	13.292	VB	0.0264	1119.32971	0.00149	octacosane
17	13.964	VB	0.0262	1129.04834	0.00150	triacontane
18	16.121	BV	0.0543	1246.25208	0.00166	hexatriacontane

Totals : 1.72887e4 2.298e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.519	BV	0.0246	57.74522	7.676e-5	?
2	0.586	VV	0.0237	60.70682	8.070e-5	?
3	1.757	VV S	0.9269	7.50090e7	99.71239	?
4	1.871	PV T	0.0724	3.66966e4	0.04878	?
5	1.900	VV S	0.0222	7539.72803	0.01002	?
6	1.938	VV S	0.0413	1.36300e4	0.01812	?
7	1.987	VV S	0.0322	9887.83594	0.01314	?
8	2.029	VV S	0.0314	8891.41602	0.01182	?
9	2.056	VV S	0.0341	9171.54004	0.01219	?
10	2.101	VV S	0.0435	1.19341e4	0.01586	?
11	2.167	VV S	0.0639	1.51115e4	0.02009	?
12	2.231	VV S	0.0450	1.08432e4	0.01441	?
13	2.276	VV S	0.0244	6460.79590	0.00859	?
14	2.313	VV S	0.0343	7420.84668	0.00986	?
15	2.342	VV S	0.0223	5157.41846	0.00686	?
16	2.368	VV S	0.0193	4072.39526	0.00541	?
17	2.397	VV S	0.0270	5564.77979	0.00740	?
18	2.442	VV S	0.0397	7676.17383	0.01020	?
19	2.477	VV S	0.0298	6480.95703	0.00862	?
20	2.524	VV S	0.0451	7486.56201	0.00995	?
21	2.571	VV S	0.0323	5891.19531	0.00783	?
22	2.606	VV S	0.0380	6896.95996	0.00917	?
23	2.653	VV S	0.0300	4868.49316	0.00647	?
24	2.704	VV S	0.0347	3265.92163	0.00434	?
25	2.759	VBAS	0.0521	3142.03711	0.00418	?
26	3.171	VB	0.0459	6.17071	8.203e-6	?
27	3.641	VB	0.0169	3.83051	5.092e-6	?
28	5.120	PB	0.0367	3.31076	4.401e-6	?
29	5.226	BV	0.0268	6.33691	8.424e-6	?
30	7.839	VP	0.0332	6.13517	8.156e-6	?
31	8.931	BP	0.0343	2.61409	3.475e-6	?
32	10.033	VV	0.0224	274.32721	0.00036	?
33	10.842	VV	0.0436	12.46182	1.657e-5	?
34	11.682	VV	0.0328	3.37227	4.483e-6	?
35	12.460	BV	0.0513	4.44878	5.914e-6	?
36	12.527	VV	0.0215	160.92191	0.00021	?
37	13.244	VV	0.0245	182.79713	0.00024	?
38	13.632	BP	0.0284	2.38395	3.169e-6	?
39	13.917	VV	0.0256	173.30225	0.00023	?
40	14.600	PV	0.0405	3.38775	4.503e-6	?
41	16.318	VV	0.0219	2.13633	2.840e-6	?
42	16.350	VB	0.0609	7.15532	9.512e-6	?

Uncalib. totals : 7.52081e7 99.9770

Results obtained with enhanced integrator!
2 Warnings or Errors :

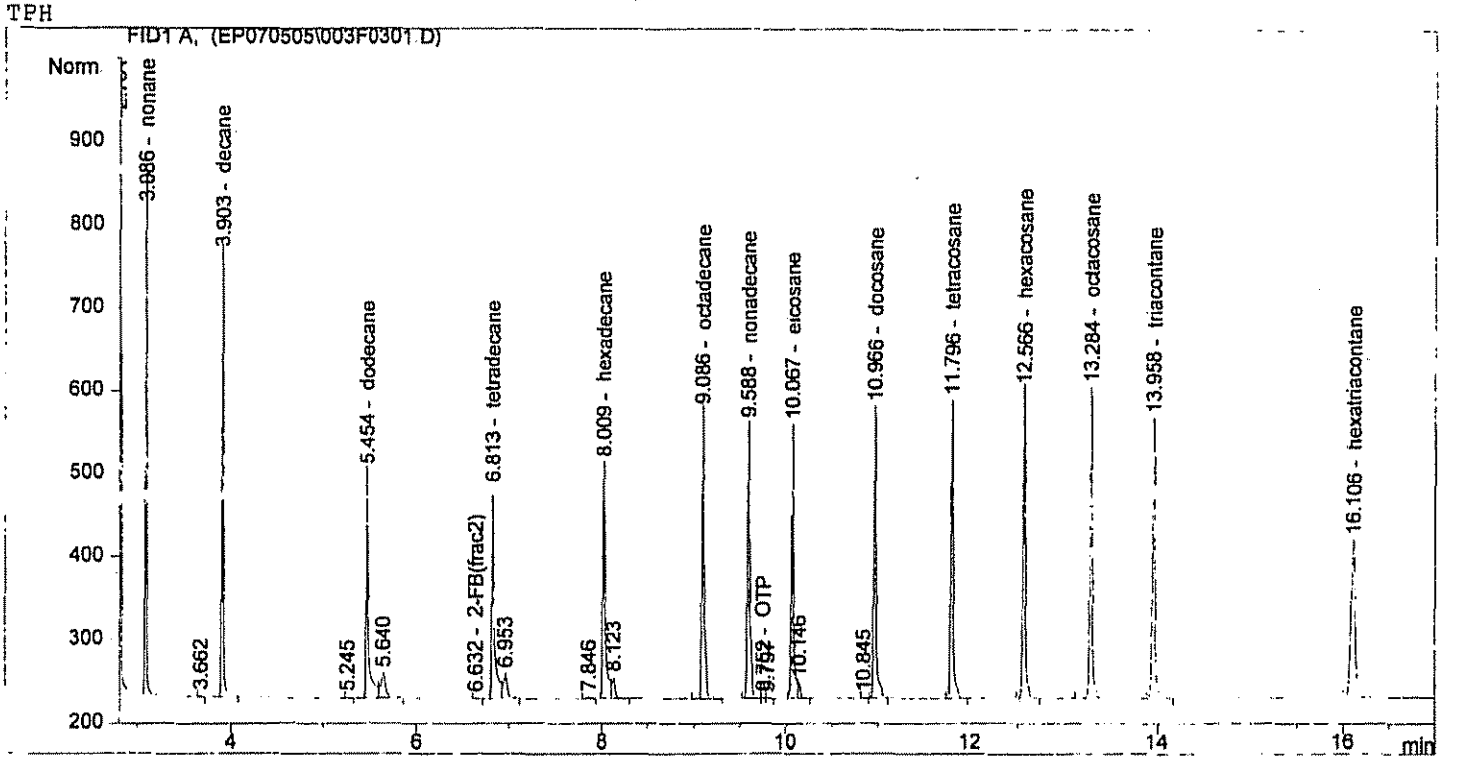
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 6:10:14 PM          Seq. Line :   3
Sample Name     : K 10 ical                     Location : Vial 3
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:03 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:17:09 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.086 BV     0.0163  646.96594  0.00080 nonane
   2   3.903 PB     0.0191  648.55542  0.00080 decane
   3   5.454 BV     0.0259  515.10767  0.00063 dodecane
   4   6.632 VP     0.0224    2.64904 3.257e-6 2-FB(frac2)
   5   6.813 PV     0.0296  535.56970  0.00066 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.009 BV     0.0299  559.39600  0.00069 hexadecane
   8   9.086 VB     0.0260  629.22015  0.00077 octadecane
   9   9.588 VB     0.0279  622.48523  0.00077 nonadecane
  10   9.752 BV     0.0413    3.49163 4.293e-6 OTP
  11  10.067 BV     0.0267  587.18970  0.00072 eicosane
  12  10.966 BB     0.0257  624.03387  0.00077 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	BB	0.0263	627.09064	0.00077	tetracosane
15	12.566	VB	0.0258	634.36932	0.00078	hexacosane
16	13.284	PB	0.0256	630.87390	0.00078	octacosane
17	13.958	VB	0.0298	632.02637	0.00078	triacontane
18	16.106	BV	0.0464	593.95795	0.00073	hexatriacontane

Totals : 8492.98253 1.044e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0244	7.71156	9.481e-6	?
2	0.562	VP	0.0113	1.42115	1.747e-6	?
3	0.591	VV	0.0154	23.15101	2.846e-5	?
4	1.820	VV S	0.9937	8.05263e7	99.00074	?
5	1.887	VV S	0.0265	4.48002e4	0.05508	?
6	1.928	VV S	0.0408	6.93738e4	0.08529	?
7	1.973	VV S	0.0381	5.52395e4	0.06791	?
8	2.024	VV S	0.0335	5.17152e4	0.06358	?
9	2.067	VV S	0.0365	5.62647e4	0.06917	?
10	2.118	VV S	0.0376	4.86328e4	0.05979	?
11	2.151	VV S	0.0215	2.98704e4	0.03672	?
12	2.177	VV S	0.0264	3.52801e4	0.04337	?
13	2.228	VV S	0.0458	5.56615e4	0.06843	?
14	2.287	VV S	0.0379	5.22191e4	0.06420	?
15	2.333	VV S	0.0391	4.50187e4	0.05535	?
16	2.381	VV S	0.0585	6.88890e4	0.08469	?
17	2.468	VV S	0.0502	4.48071e4	0.05509	?
18	2.536	VV S	0.0353	4.05112e4	0.04981	?
19	2.597	VV S	0.0481	4.29150e4	0.05276	?
20	2.637	VV S	0.0305	2.27497e4	0.02797	?
21	2.672	VV S	0.0404	1.89249e4	0.02327	?
22	2.735	VV S	0.0465	1.48342e4	0.01824	?
23	2.781	VBAS	0.0237	6243.33594	0.00768	?
24	3.662	VP	0.0195	2.25390	2.771e-6	?
25	5.245	BP	0.0223	2.77696	3.414e-6	?
26	5.640	VB	0.0517	112.54359	0.00014	?
27	6.953	VB	0.0402	87.22015	0.00011	?
28	7.846	VP	0.0237	3.71921	4.572e-6	?
29	8.123	VB	0.0356	65.04246	7.996e-5	?
30	9.797	VP	0.0246	2.36150	2.903e-6	?
31	10.146	VB	0.0269	35.94770	4.419e-5	?
32	10.845	BP	0.0222	2.60568	3.203e-6	?

Uncalib. totals : 8.13306e7 99.9896

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

```
==================================================================
Injection Date  : 7/5/2005 6:37:08 PM          Seq. Line :   4
Sample Name     : K 5 ical                      Location : Vial 4
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:25 AM by DCS
                  (modified after loading)
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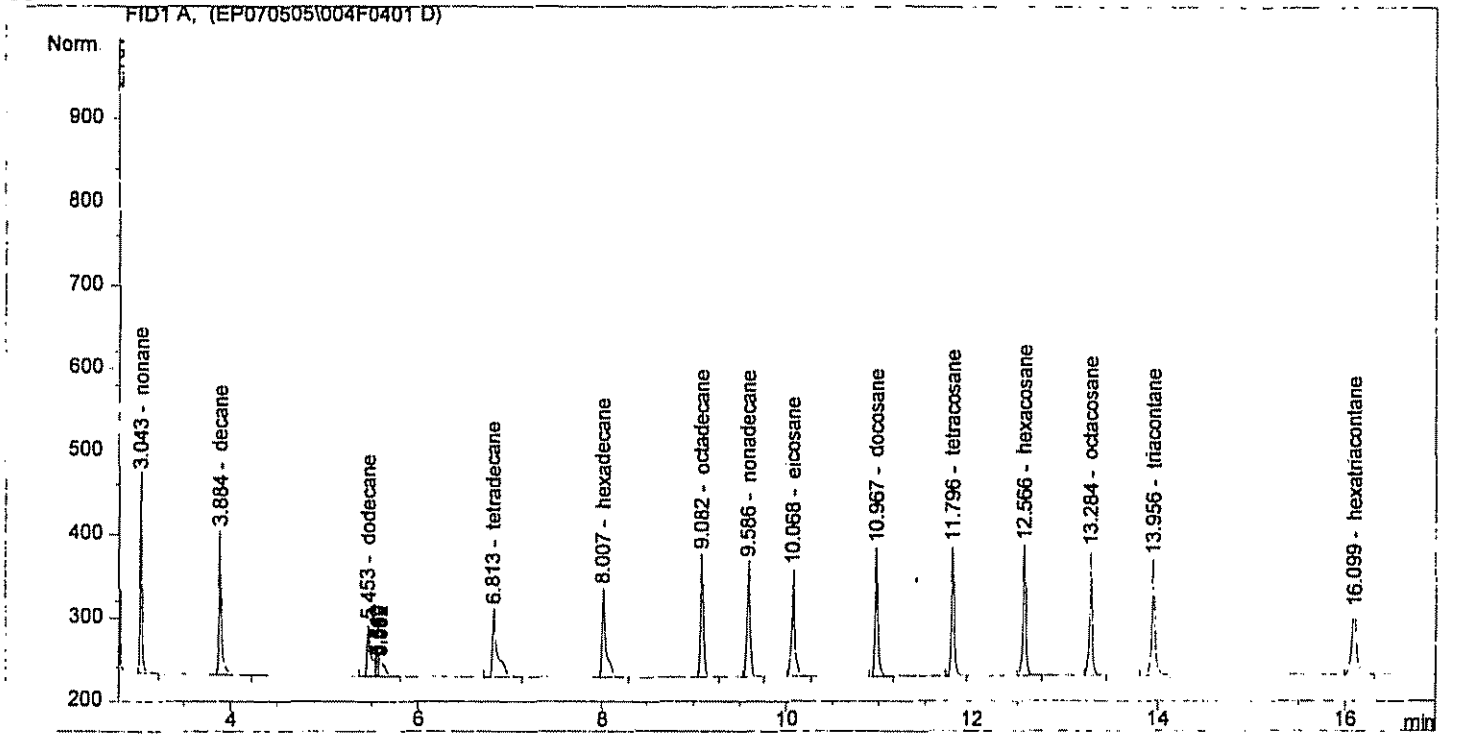
TPH




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.043	VB	0.0194	314.75198	0.00042	nonane
2	3.884	BB	0.0257	319.18195	0.00043	decane
3	5.453	VV	0.0395	178.06067	0.00024	dodecane
4	6.600		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.813	BB	0.0531	314.94501	0.00042	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.007	BB	0.0422	318.62674	0.00043	hexadecane
8	9.082	BB	0.0325	320.91269	0.00043	octadecane
9	9.500		0.0000	0.00000	0.00000	OTP
10	9.586	PB	0.0330	317.79922	0.00043	nonadecane
11	10.068	BB	0.0354	320.89191	0.00043	eicosane
12	10.967	VB	0.0302	321.13647	0.00043	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	VB	0.0301	321.12863	0.00043	tetracosane
15	12.566	VB	0.0312	325.14694	0.00044	hexacosane
16	13.284	PB	0.0321	321.30228	0.00043	octacosane
17	13.956	BB	0.0341	320.14969	0.00043	triacontane
18	16.099	BB	0.0561	291.00854	0.00039	hexatriacontane

Totals : 4305.04272 5.802e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.517	PV	0.0191	55.41060	7.468e-5	?
2	0.565	VV	0.0185	28.83533	3.886e-5	?
3	1.713	VV S	0.9089	7.32658e7	98.74944	?
4	1.764	VV S	0.0163	7.29550e5	0.98330	?
5	1.830	VV S	0.0435	1.87256e4	0.02524	?
6	1.878	VV S	0.0284	1.22771e4	0.01655	?
7	1.924	VV S	0.0404	1.41080e4	0.01902	?
8	1.974	VV S	0.0322	1.20777e4	0.01628	?
9	2.013	VV S	0.0466	1.33146e4	0.01795	?
10	2.087	VV S	0.0613	1.79908e4	0.02425	?
11	2.136	VV S	0.0245	7542.58447	0.01017	?
12	2.183	VV S	0.0671	1.54346e4	0.02080	?
13	2.267	VV S	0.0517	1.32190e4	0.01782	?
14	2.316	VV S	0.0334	9018.83691	0.01216	?
15	2.360	VV S	0.0333	8250.15332	0.01112	?
16	2.408	VV S	0.0349	8098.63721	0.01092	?
17	2.453	VV S	0.0346	7506.19678	0.01012	?
18	2.493	VV S	0.0245	5263.53906	0.00709	?
19	2.536	VV S	0.0618	1.09045e4	0.01470	?
20	2.600	VV S	0.0313	7502.49414	0.01011	?
21	2.645	VV S	0.0314	4715.55957	0.00636	?
22	2.684	VV S	0.0381	3582.78540	0.00483	?
23	2.733	VV S	0.0518	3241.38672	0.00437	?
24	2.781	VBAS	0.0167	992.51752	0.00134	?
25	5.543	VV	0.0178	22.70176	3.060e-5	?
26	5.569	VV	0.0207	27.28106	3.677e-5	?
27	5.592	VV	0.0602	83.46490	0.00011	?

Uncalib. totals : 7.41894e7 99.9942

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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==========================================================================
Injection Date  : 7/5/2005 7:03:13 PM          Seq. Line :   5
Sample Name     : K 1 ical                      Location : Vial 5
Acq. Operator   : DCS                              Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:54 AM by DCS
                  (modified after loading)
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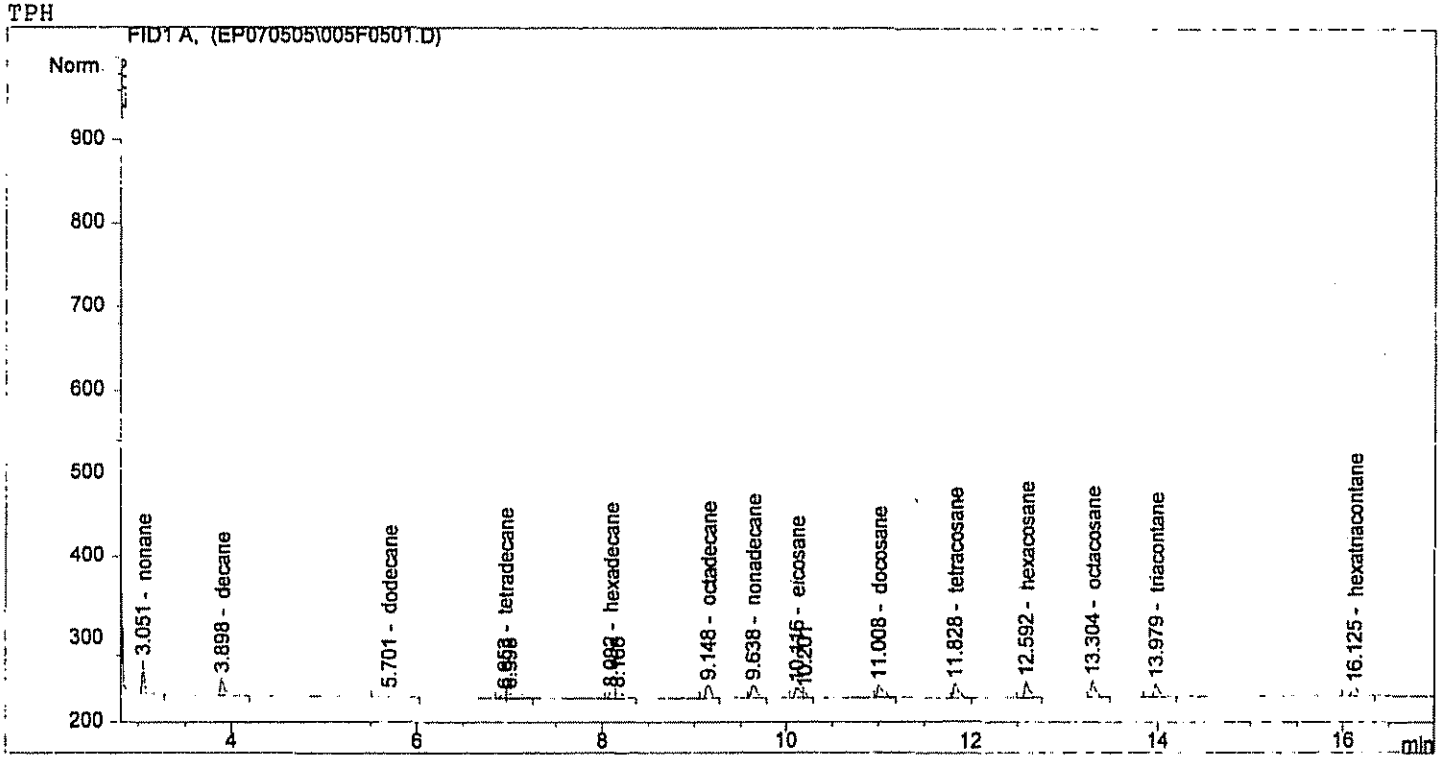
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:17:09 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.051 BP     0.0241   63.57945 8.542e-5 nonane
   2   3.898 BP     0.0457   69.52576 9.341e-5 decane
   3   5.701 PV     0.1867   58.11040 7.807e-5 dodecane
   4   6.600        0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.953 PV     0.0485   18.31736 2.461e-5 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.092 PV     0.0599   30.26579 4.066e-5 hexadecane
   8   9.148 PV     0.0596   62.13025 8.347e-5 octadecane
   9   9.500        0.0000    0.00000  0.00000 OTP
  10   9.638 BV     0.0588   62.69368 8.423e-5 nonadecane
  11  10.116 VV     0.0553   47.14569 6.334e-5 eicosane
  12  11.008 BB     0.0600   64.16410 8.621e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.828	PB	0.0525	64.03179	8.603e-5	tetracosane
15	12.592	VB	0.0482	65.47491	8.797e-5	hexacosane
16	13.304	BB	0.0443	64.38484	8.650e-5	octacosane
17	13.979	VB	0.0519	63.16903	8.487e-5	triacontane
18	16.125	BB	0.0709	49.00692	6.584e-5	hexatriacontane

Totals : 781.99997 1.051e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.521	PV	0.0155	64.20905	8.627e-5	?
2	0.585	VV	0.0276	69.71010	9.366e-5	?
3	0.712	VV S	0.0486	1.41617e6	1.90265	?
4	1.750	VV S	0.8897	7.21088e7	96.87967	?
5	1.777	VV S	0.0153	7.12026e5	0.95662	?
6	1.843	PV T	0.0740	3.29682e4	0.04429	?
7	1.885	VV S	0.0408	1.41671e4	0.01903	?
8	1.934	VV S	0.1521	3.89642e4	0.05235	?
9	2.115	VV S	0.0395	1.23934e4	0.01665	?
10	2.170	VV S	0.0314	8898.58203	0.01196	?
11	2.199	VV S	0.0246	5647.13525	0.00759	?
12	2.238	VV S	0.0367	9367.01953	0.01258	?
13	2.289	VV S	0.0425	9846.37305	0.01323	?
14	2.350	VV S	0.0463	9718.13770	0.01306	?
15	2.407	VV S	0.0417	1.00959e4	0.01356	?
16	2.447	VV S	0.0309	5712.63965	0.00768	?
17	2.486	VV S	0.0376	6904.68115	0.00928	?
18	2.527	VV S	0.0702	1.12526e4	0.01512	?
19	2.613	VV S	0.0618	1.00827e4	0.01355	?
20	2.685	VV S	0.0287	2776.07471	0.00373	?
21	2.723	VV S	0.0341	2505.02124	0.00337	?
22	2.775	VBAS	0.0323	2004.13550	0.00269	?
23	6.998	VB	0.0995	41.64529	5.595e-5	?
24	8.168	VB	0.0670	31.63436	4.250e-5	?
25	10.201	VB	0.0450	14.71698	1.977e-5	?

Uncalib. totals : 7.44306e7 99.9989

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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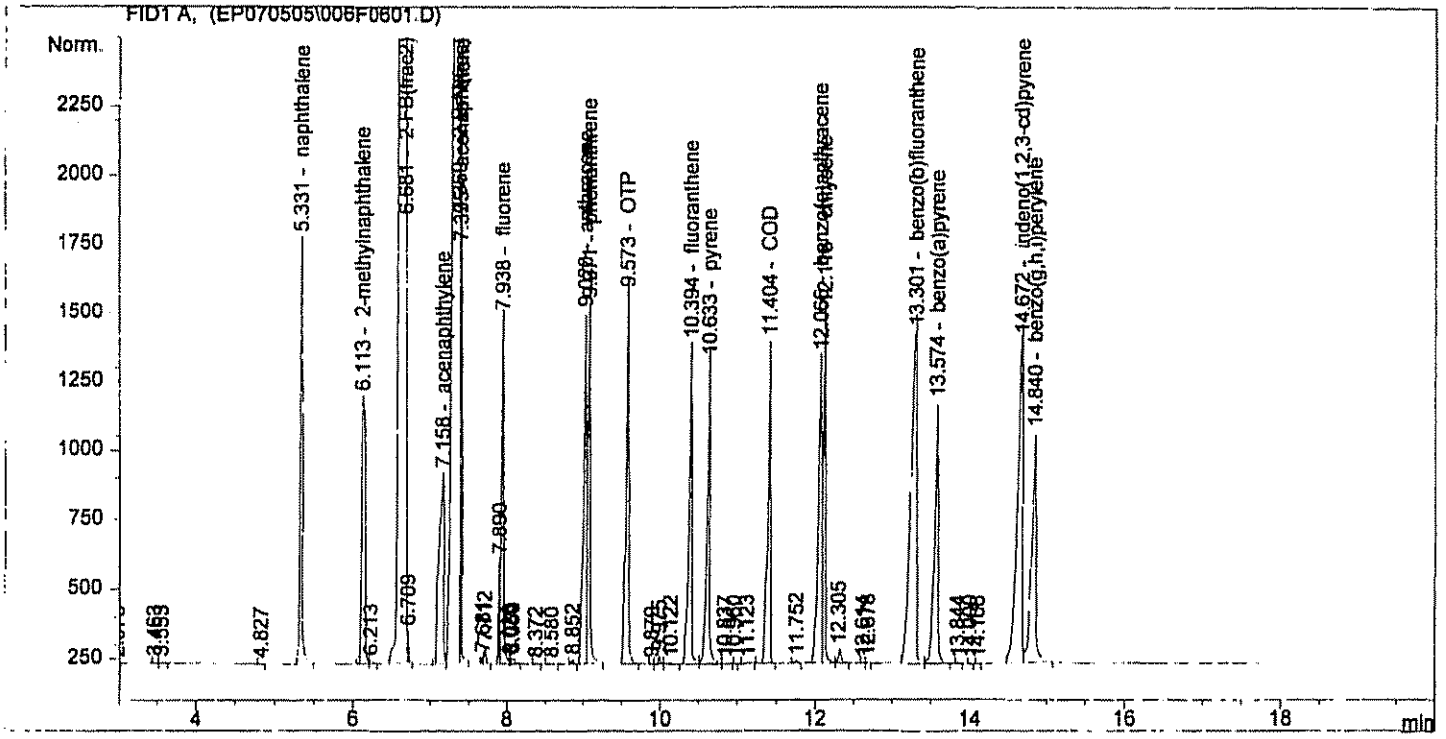
*** End of Report ***

Injection Date	: 7/5/2005 7:30:00 PM	Seq. Line :	6
Sample Name	: R 40 ical	Location :	Vial 6
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:22:50 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:23:05 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.331	PB	0.0293	3077.10938	0.00430	naphthalene
2	6.113	PV	0.0442	2919.46924	0.00408	2-methylnaphthalene
3	6.681	BV	0.0555	3.39225e4	0.04735	2-FB(frac2)
4	7.158	PV	0.0555	2908.37695	0.00406	acenaphthylene
5	7.369	VV	0.0643	2.40343e4	0.03355	2-BrN(frac)
6	7.395	VB	0.0154	2159.06787	0.00301	acenaphthene
7	7.938	VV	0.0276	2337.66382	0.00326	fluorene
8	9.020	BV	0.0336	3231.57983	0.00451	anthracene
9	9.071	VB	0.0259	2557.39355	0.00357	phenanthrene
10	9.573	BB	0.0330	3222.72534	0.00450	OTP
11	10.394	BV	0.0357	2949.98340	0.00412	fluoranthene
12	10.633	VB	0.0382	3117.37500	0.00435	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.404	BB	0.0364	2832.86084	0.00395	COD
14	12.066	BV	0.0407	3498.13501	0.00488	benzo(a)anthracene
15	12.118	VV	0.0253	2452.23462	0.00342	chrysene
16	13.301	BV	0.0695	6132.74707	0.00856	benzo(b)fluoranthene
17	13.349		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.574	VB	0.0446	2957.06860	0.00413	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.672	BV	0.0646	5866.15234	0.00819	indeno(1,2,3-cd)pyrene
21	14.840	VB	0.0479	3050.68335	0.00426	benzo(g,h,i)perylene

Totals : 1.13227e5 0.1581

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.573	BP S	0.0122	7586.06055	0.01059	?
2	0.653	VV S	0.0451	6.58377e5	0.91907	?
3	1.724	VV S	0.8725	7.07102e7	98.70834	?
4	1.801	VV S	0.0388	1.48257e4	0.02070	?
5	1.864	VV S	0.0489	1.48582e4	0.02074	?
6	1.915	VV S	0.0265	8182.16309	0.01142	?
7	1.950	VV S	0.0247	6569.26807	0.00917	?
8	1.977	VV S	0.0245	5267.52979	0.00735	?
9	2.006	VV S	0.0348	8034.66211	0.01122	?
10	2.059	VV S	0.0422	9352.93457	0.01306	?
11	2.107	VV S	0.0426	9707.95801	0.01355	?
12	2.159	VV S	0.0387	8381.02832	0.01170	?
13	2.207	VV S	0.0522	1.08873e4	0.01520	?
14	2.299	VV S	0.0752	1.13269e4	0.01581	?
15	2.378	VV S	0.0389	6377.16797	0.00890	?
16	2.418	VV S	0.0326	5568.22656	0.00777	?
17	2.465	VV S	0.0356	5317.47607	0.00742	?
18	2.522	VV S	0.0424	6129.83447	0.00856	?
19	2.571	VV S	0.0428	5401.29785	0.00754	?
20	2.623	VV S	0.0339	4015.69678	0.00561	?
21	2.653	VV S	0.0291	2476.95386	0.00346	?
22	2.696	VV S	0.0250	1451.90259	0.00203	?
23	2.749	VB S	0.0222	693.39868	0.00097	?
24	2.975	PP	0.0232	2.07011	2.890e-6	?
25	3.463	BB	0.0306	14.04676	1.961e-5	?
26	3.553	BB	0.0470	14.24751	1.989e-5	?
27	4.827	PB	0.0340	3.28712	4.589e-6	?
28	6.213	VB	0.0516	42.02866	5.867e-5	?
29	6.709	VB	0.0158	117.18262	0.00016	?
30	7.681	PV	0.0203	26.89666	3.755e-5	?
31	7.712	VB	0.0227	87.80135	0.00012	?
32	7.890	BV	0.0230	547.56219	0.00076	?
33	8.026	VV	0.0199	16.41841	2.292e-5	?
34	8.059	VB	0.0434	57.65916	8.049e-5	?
35	8.372	BB	0.0308	7.16673	1.000e-5	?
36	8.580	PP	0.0394	9.82675	1.372e-5	?
37	8.852	BP	0.0316	31.30010	4.369e-5	?
38	9.879	BV	0.0241	6.10458	8.522e-6	?
39	9.975	VV	0.0312	56.82285	7.932e-5	?
40	10.122	VP	0.0467	15.90412	2.220e-5	?
41	10.837	BB	0.0691	19.98311	2.790e-5	?
42	10.960	BB	0.0229	4.29571	5.997e-6	?
43	11.123	BB	0.0481	14.04146	1.960e-5	?
44	11.752	BP	0.0313	20.70277	2.890e-5	?
45	12.305	VB	0.0365	131.56999	0.00018	?
46	12.614	PV	0.0273	3.90746	5.455e-6	?
47	12.678	VB	0.0265	8.30177	1.159e-5	?
48	13.844	PP	0.0277	3.11171	4.344e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	14.000	PP	0.0257	5.20895	7.271e-6	?
50	14.106	BP	0.0260	3.34295	4.667e-6	?

Uncalib. totals : 7.15223e7 99.8419

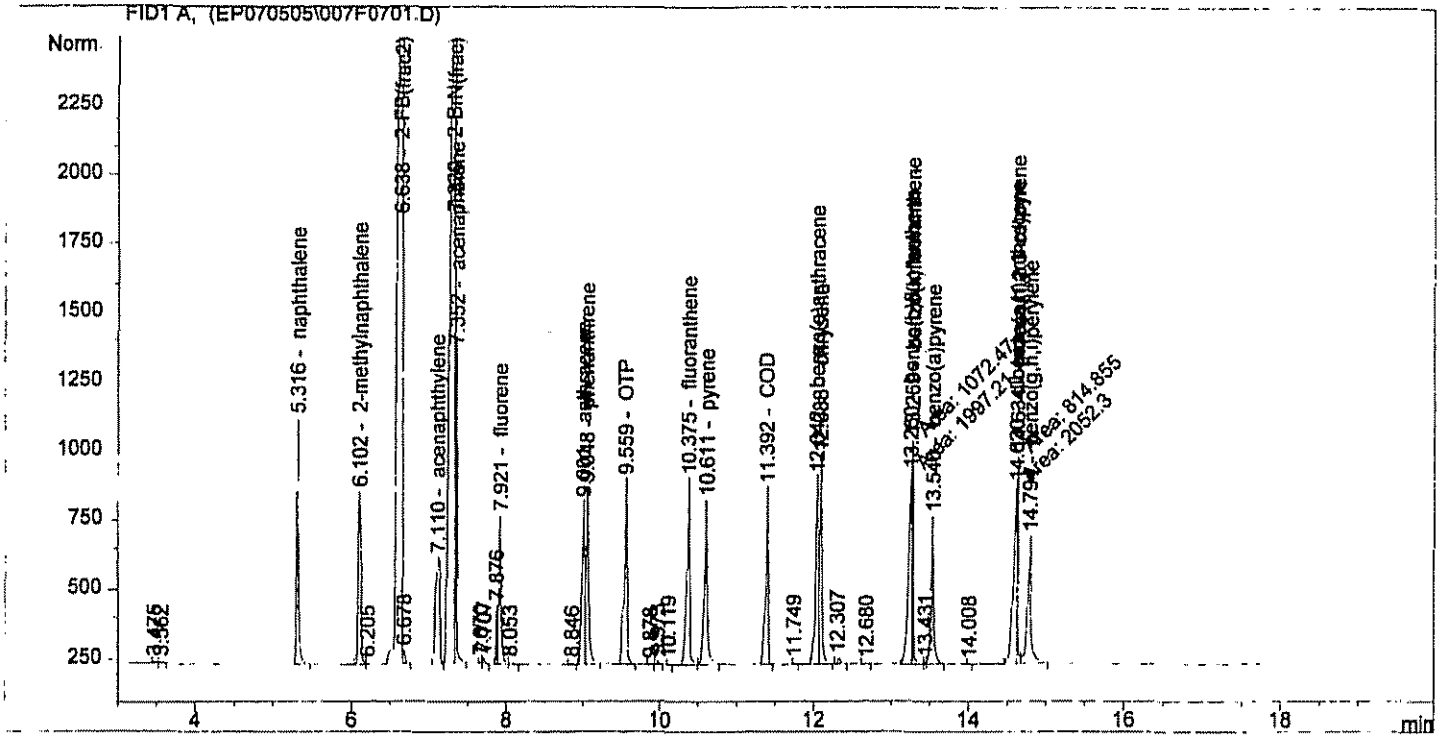
Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Injection Date	: 7/5/2005 7:57:34 PM	Seq. Line :	7
Sample Name	: R 20 ical	Location :	Vial 7
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:24:52 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:24:52 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.316	BB	0.0266	1560.88293	0.00203	naphthalene
2	6.102	BV	0.0401	1488.68005	0.00194	2-methylnaphthalene
3	6.638	BV	0.0461	1.69993e4	0.02215	2-FB(frac2)
4	7.110	PV	0.0495	1483.72766	0.00193	acenaphthylene
5	7.320	VV	0.0471	1.18874e4	0.01549	2-BrN(frac)
6	7.352	VB	0.0179	1344.53394	0.00175	acenaphthene
7	7.921	VV	0.0328	1174.09924	0.00153	fluorene
8	9.001	BV	0.0356	1523.33997	0.00199	anthracene
9	9.048	VB	0.0308	1401.40002	0.00183	phenanthrene
10	9.559	BB	0.0348	1633.10645	0.00213	OTP
11	10.375	BB	0.0329	1480.49524	0.00193	fluoranthene
12	10.611	BB	0.0348	1549.50317	0.00202	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	BB	0.0313	1423.13940	0.00185	COD
14	12.042	BV	0.0356	1639.31689	0.00214	benzo(a)anthracene
15	12.088	VB	0.0261	1352.98071	0.00176	chrysene
16	13.250	MF	0.0484	1997.20630	0.00260	benzo(b)fluoranthene
17	13.269	FM	0.0221	1072.47473	0.00140	benzo(k)fluoranthene
18	13.540	VB	0.0372	1456.48926	0.00190	benzo(a)pyrene
19	14.620	MF	0.0536	2052.29810	0.00267	dibenzo(a,h)anthracene
20	14.634	FM	0.0181	814.85461	0.00106	indeno(1,2,3-cd)pyrene
21	14.794	VB	0.0437	1551.06067	0.00202	benzo(g,h,i)perylene

Totals : 5.68863e4 7.413e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.602	BV S	0.0129	8.49849e4	0.11075	?
2	0.705	VV S	0.0440	1.37523e6	1.79211	?
3	1.742	VV S	0.6541	7.50294e7	97.77352	?
4	1.908	VV S	0.0673	3.74246e4	0.04877	?
5	1.952	VV S	0.0396	1.21283e4	0.01580	?
6	1.991	VV S	0.0302	1.07727e4	0.01404	?
7	2.034	VV S	0.0422	1.35335e4	0.01764	?
8	2.141	VV S	0.0741	2.04535e4	0.02665	?
9	2.182	VV S	0.0267	8688.21094	0.01132	?
10	2.244	VV S	0.0500	1.36782e4	0.01782	?
11	2.286	VV S	0.0402	9538.84961	0.01243	?
12	2.339	VV S	0.0380	9001.33887	0.01173	?
13	2.385	VV S	0.0318	7613.07666	0.00992	?
14	2.426	VV S	0.0291	6637.50195	0.00865	?
15	2.460	VV S	0.0457	8927.53320	0.01163	?
16	2.518	VV S	0.0398	7637.46240	0.00995	?
17	2.580	VV S	0.0647	1.09379e4	0.01425	?
18	2.637	VV S	0.0596	1.08081e4	0.01408	?
19	2.749	VV S	0.0288	1986.04175	0.00259	?
20	2.779	VB S	0.0183	975.51318	0.00127	?
21	2.814	BB X	0.0116	47.10050	6.138e-5	?
22	3.475	PB	0.0277	12.00442	1.564e-5	?
23	3.562	BB	0.0356	8.19074	1.067e-5	?
24	6.205	VB	0.0407	21.58257	2.813e-5	?
25	6.678	VB	0.0297	92.83358	0.00012	?
26	7.670	PV	0.0219	16.38607	2.135e-5	?
27	7.707	VB	0.0279	40.37153	5.261e-5	?
28	7.876	BV	0.0219	302.78958	0.00039	?
29	8.053	VB	0.0449	30.28831	3.947e-5	?
30	8.846	BP	0.0302	15.07834	1.965e-5	?
31	9.878	PB	0.0225	1.79715	2.342e-6	?
32	9.973	BP	0.0272	22.23527	2.898e-5	?
33	10.119	BB	0.0235	2.33401	3.042e-6	?
34	11.749	BB	0.0271	10.53847	1.373e-5	?
35	12.307	BB	0.0479	69.49090	9.056e-5	?
36	12.680	BP	0.0368	5.62944	7.336e-6	?
37	13.431	BV	0.0221	12.97947	1.691e-5	?
38	14.008	PP	0.0226	2.48874	3.243e-6	?

Uncalib. totals : 7.66810e7 99.9259

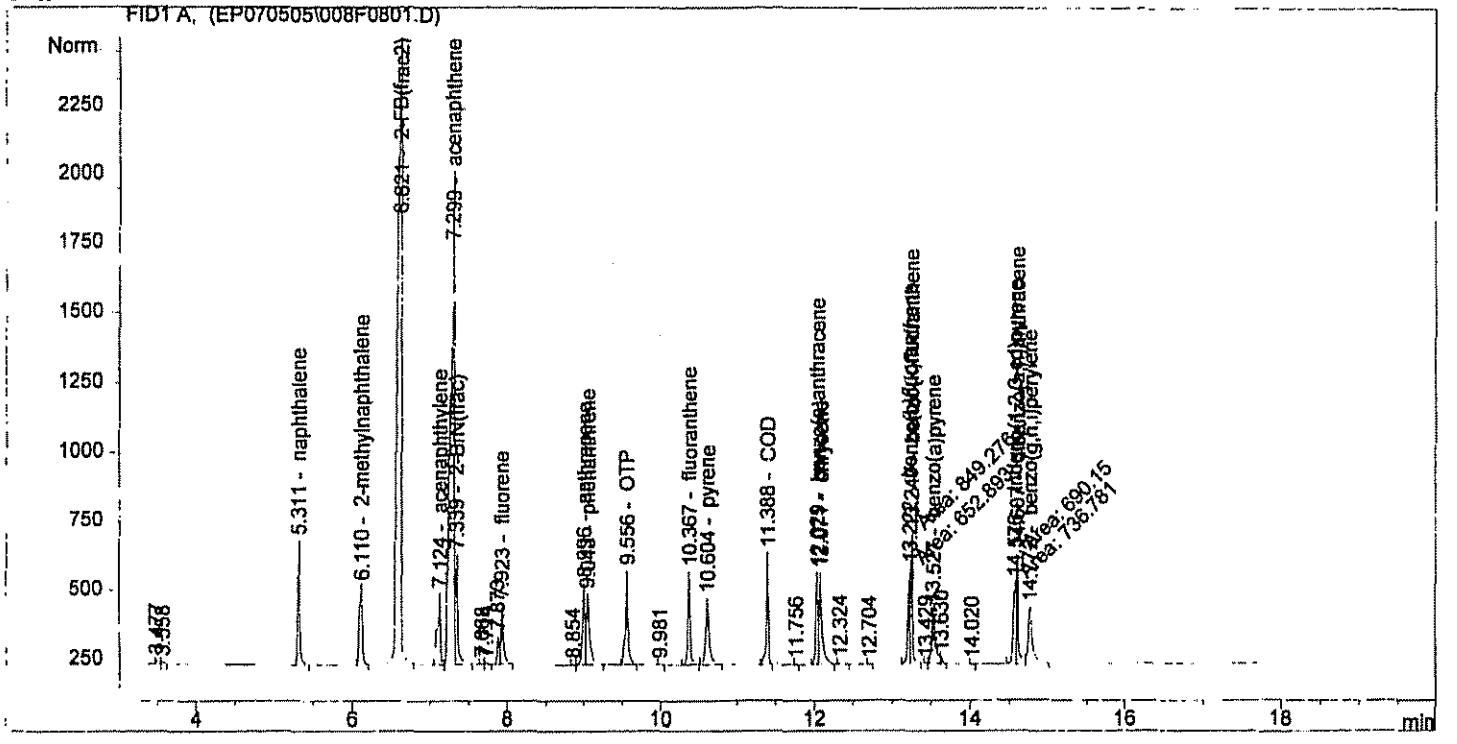
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

Injection Date	: 7/5/2005 8:24:17 PM	Seq. Line :	8
Sample Name	: R 10 ical	Location :	Vial 8
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:25:57 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:25:40 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.311	BB	0.0257	759.28735	0.00094	naphthalene
2	6.110	PB	0.0345	717.77917	0.00089	2-methylnaphthalene
3	6.621	PB	0.0436	8296.57129	0.01032	2-FB(frac2)
4	7.124	PV	0.0375	721.87189	0.00090	acenaphthylene
5	7.299	VV	0.0454	5749.29248	0.00715	acenaphthene
6	7.339	VB	0.0256	734.45514	0.00091	2-BrN(frac)
7	7.923	VB	0.0325	511.53058	0.00064	fluorene
8	8.996	VV	0.0340	684.11963	0.00085	anthracene
9	9.043	VB	0.0414	753.16272	0.00094	phenanthrene
10	9.556	BB	0.0336	802.95880	0.00100	OTP
11	10.367	BB	0.0320	724.76520	0.00090	fluoranthene
12	10.604	BB	0.0444	772.86615	0.00096	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.388	BB	0.0264	707.93549	0.00088	COD
14	12.029	BV	0.0299	655.07660	0.00081	benzo(a)anthracene
15	12.071	VB	0.0364	831.57806	0.00103	chrysene
16	13.222	MF	0.0315	652.89319	0.00081	benzo(b)fluoranthene
17	13.247	FM	0.0300	849.27576	0.00106	benzo(k)fluoranthene
18	13.527	VV	0.0462	669.95624	0.00083	benzo(a)pyrene
19	14.576	MF	0.0414	736.78082	0.00092	indeno(1,2,3-cd)pyrene
20	14.607	FM	0.0289	690.14990	0.00086	dibenzo(a,h)anthracene
21	14.772	VB	0.0545	785.48206	0.00098	benzo(g,h,i)perylene

Totals : 2.78078e4 3.459e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.566	PV S	0.0132	747.37988	0.00093	?
2	0.675	VV S	0.0292	3.96008e5	0.49263	?
3	1.820	VV S	0.9774	7.97979e7	99.26709	?
4	1.959	VV S	0.1138	3.89370e4	0.04844	?
5	2.068	VV S	0.0817	2.05034e4	0.02551	?
6	2.115	VV S	0.0531	1.24003e4	0.01543	?
7	2.185	VV S	0.0484	1.44270e4	0.01795	?
8	2.248	VV S	0.0385	8142.15771	0.01013	?
9	2.280	VV S	0.0282	6517.15088	0.00811	?
10	2.326	VV S	0.0314	7340.53955	0.00913	?
11	2.363	VV S	0.0372	6874.45264	0.00855	?
12	2.403	VV S	0.0357	7568.43799	0.00941	?
13	2.455	VV S	0.0411	8658.30078	0.01077	?
14	2.509	VV S	0.0340	7557.59131	0.00940	?
15	2.554	VV S	0.0299	5949.49072	0.00740	?
16	2.599	VV S	0.0469	8102.41602	0.01008	?
17	2.648	VV S	0.0348	3804.99854	0.00473	?
18	2.687	VV S	0.0280	2789.33472	0.00347	?
19	2.729	VV S	0.0309	2428.41943	0.00302	?
20	2.771	VB S	0.0301	2264.80884	0.00282	?
21	3.477	PB	0.0202	19.81381	2.465e-5	?
22	3.558	BB	0.0239	9.88446	1.230e-5	?
23	7.668	PV	0.0260	8.62177	1.073e-5	?
24	7.714	VB	0.0278	16.83376	2.094e-5	?
25	7.873	BV	0.0263	188.52881	0.00023	?
26	8.854	BP	0.0237	5.95888	7.413e-6	?
27	9.981	PP	0.0292	10.25769	1.276e-5	?
28	11.756	BB	0.0211	4.92660	6.129e-6	?
29	12.324	BP	0.0578	26.56639	3.305e-5	?
30	12.704	PB	0.0218	1.88195	2.341e-6	?
31	13.429	PV	0.0176	1.88680	2.347e-6	?
32	13.630	VB	0.0254	38.84804	4.833e-5	?
33	14.020	PB	0.0234	1.75642	2.185e-6	?

Uncalib. totals : 8.03592e7 99.9654

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 8:52:10 PM          Seq. Line :   9
Sample Name     : R 5 ical                      Location : Vial 9
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:27:20 AM by DCS
                  (modified after loading)
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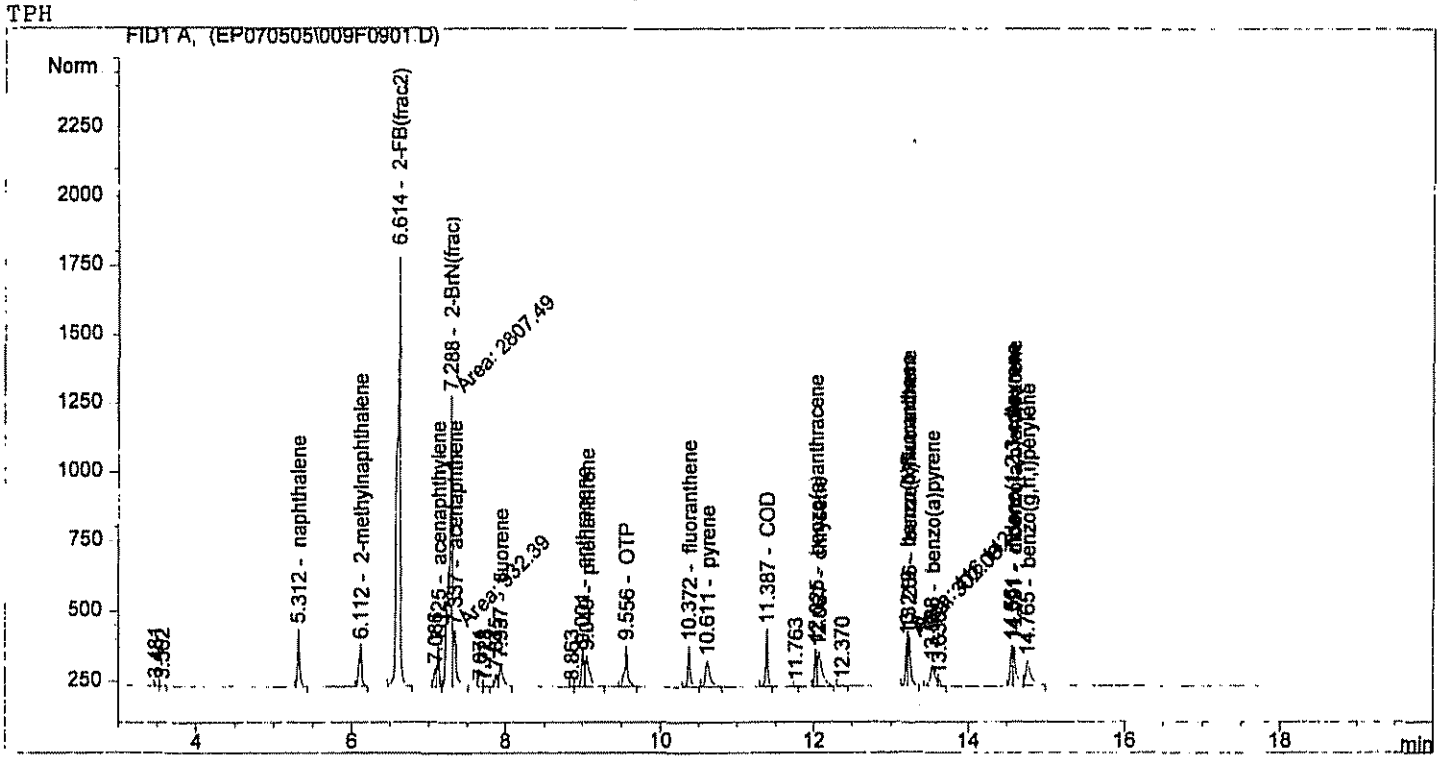
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      7/6/2005 8:27:44 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BB	0.0275	381.19046	0.00046	naphthalene
2	6.112	PB	0.0344	365.53854	0.00045	2-methylnaphthalene
3	6.614	BB	0.0357	4271.07813	0.00520	2-FB(frac2)
4	7.125	VV	0.0234	228.60712	0.00028	acenaphthylene
5	7.288	MF	0.0448	2807.48755	0.00342	2-BrN(frac)
6	7.337	FM	0.0444	532.38989	0.00065	acenaphthene
7	7.937	VB	0.0445	266.79672	0.00033	fluorene
8	9.001	VV	0.0320	293.35999	0.00036	anthracene
9	9.049	VB	0.0533	435.87302	0.00053	phenanthrene
10	9.556	BB	0.0387	407.76004	0.00050	OTP
11	10.372	BB	0.0379	362.46796	0.00044	fluoranthene
12	10.611	BB	0.0614	391.06754	0.00048	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.387	BB	0.0265	359.22467	0.00044	COD
14	12.025	BV	0.0293	256.21942	0.00031	benzo(a)anthracene
15	12.067	VB	0.0519	490.22177	0.00060	chrysene
16	13.219	MF	0.0308	302.08035	0.00037	benzo(b)fluoranthene
17	13.236	FM	0.0383	416.14188	0.00051	benzo(k)fluoranthene
18	13.538	PV	0.0561	302.04449	0.00037	benzo(a)pyrene
19	14.561	BV	0.0301	289.19754	0.00035	indeno(1,2,3-cd)pyrene
20	14.591	VV	0.0378	380.25415	0.00046	dibenzo(a,h)anthracene
21	14.765	VB	0.0616	407.44254	0.00050	benzo(g,h,i)perylene

Totals : 1.39464e4 1.699e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.563	PV S	0.0140	759.74811	0.00093	?
2	0.683	VV S	0.0272	4.71086e5	0.57401	?
3	1.835	VV S	0.9971	8.14189e7	99.20795	?
4	1.950	PV T	0.0638	2.90373e4	0.03538	?
5	1.997	VV S	0.0228	8289.62305	0.01010	?
6	2.048	VV S	0.0489	1.32992e4	0.01620	?
7	2.093	VV S	0.0313	8470.81152	0.01032	?
8	2.137	VV S	0.0370	1.00365e4	0.01223	?
9	2.165	VV S	0.0329	7709.98682	0.00939	?
10	2.210	VV S	0.0343	7856.13281	0.00957	?
11	2.246	VV S	0.0270	5997.93506	0.00731	?
12	2.275	VV S	0.0240	5644.15088	0.00688	?
13	2.309	VV S	0.0357	8035.14502	0.00979	?
14	2.364	VV S	0.0360	7999.90137	0.00975	?
15	2.403	VV S	0.0385	8932.79004	0.01088	?
16	2.462	VV S	0.0381	7766.06934	0.00946	?
17	2.501	VV S	0.0397	7978.09717	0.00972	?
18	2.562	VV S	0.0350	7006.06787	0.00854	?
19	2.600	VV S	0.0308	6012.04736	0.00733	?
20	2.636	VV S	0.0245	4077.92383	0.00497	?
21	2.664	VV S	0.0264	2937.18262	0.00358	?
22	2.696	VV S	0.0469	4386.25098	0.00534	?
23	2.771	VB S	0.0397	2436.74902	0.00297	?
24	3.481	PB	0.0212	10.43116	1.271e-5	?
25	3.562	BP	0.0298	5.43903	6.627e-6	?
26	7.086	PV	0.0332	139.99332	0.00017	?
27	7.671	PV	0.0321	4.02950	4.910e-6	?
28	7.728	VP	0.0332	6.47859	7.894e-6	?
29	7.875	BV	0.0295	89.97723	0.00011	?
30	8.863	PV	0.0219	2.26688	2.762e-6	?
31	11.763	BB	0.0205	2.35931	2.875e-6	?
32	12.370	PP	0.0405	12.58713	1.534e-5	?
33	13.630	VB	0.0330	48.26193	5.881e-5	?

Uncalib. totals : 8.20550e7 99.9830

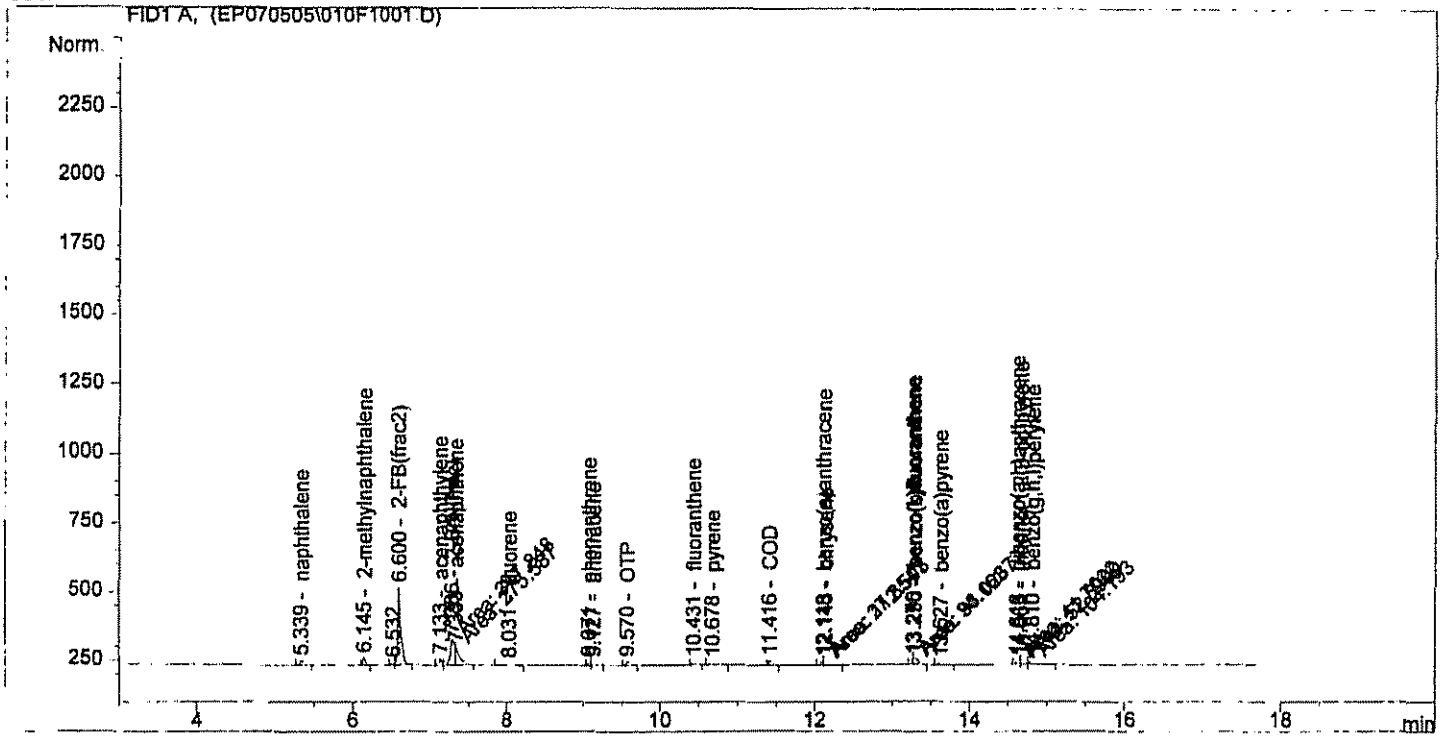
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Injection Date	: 7/5/2005 9:19:15 PM	Seq. Line :	10
Sample Name	: R 1 ical	Location :	Vial 10
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:27:20 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/6/2005 8:27:44 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.339	BB	0.0512	64.31669	7.634e-5	naphthalene
2	6.145	BB	0.0378	64.35564	7.638e-5	2-methylnaphthalene
3	6.600	VB	0.0394	807.25494	0.00096	2-FB(frac2)
4	7.133	BV	0.0339	58.26943	6.916e-5	acenaphthylene
5	7.286	MF	0.0601	347.84760	0.00041	2-BrN(frac)
6	7.333	FM	0.0694	275.58743	0.00033	acenaphthene
7	8.031	BB	0.1123	62.26244	7.390e-5	fluorene
8	9.071	PV	0.0353	30.46159	3.615e-5	phenanthrene
9	9.127	VB	0.0686	61.32705	7.279e-5	anthracene
10	9.570	PB	0.0630	60.99045	7.239e-5	OTP
11	10.431	PB	0.0520	47.63327	5.654e-5	fluoranthene
12	10.678	PB	0.0873	55.33611	6.568e-5	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.416	PB	0.0518	62.48400	7.416e-5	COD
14	12.118	MF	0.0344	27.85410	3.306e-5	benzo(a)anthracene
15	12.143	FM	0.1057	112.50302	0.00013	chrysene
16	13.276	MF	0.0271	34.16298	4.055e-5	benzo(k)fluoranthene
17	13.290	FM	0.0687	98.02668	0.00012	benzo(b)fluoranthene
18	13.627	BP	0.0798	59.56261	7.069e-5	benzo(a)pyrene
19	14.618	MF	0.0534	41.70220	4.950e-5	dibenzo(a,h)anthracene
20	14.663	MF	0.0767	52.59986	6.243e-5	indeno(1,2,3-cd)pyrene
21	14.810	FM	0.1217	104.19251	0.00012	benzo(g,h,i)perylene

Totals : 2528.73061 3.001e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.586	BV S	0.0143	4333.71777	0.00514	?
2	1.839	VP S	1.0271	8.40868e7	99.80158	?
3	2.008	VV S	0.0761	3.65618e4	0.04339	?
4	2.059	VV S	0.0345	1.20447e4	0.01430	?
5	2.112	VV S	0.0375	1.27805e4	0.01517	?
6	2.156	VV S	0.0405	1.08336e4	0.01286	?
7	2.224	VV S	0.0529	1.29609e4	0.01538	?
8	2.281	VV S	0.0449	1.06941e4	0.01269	?
9	2.351	VV S	0.0485	1.21059e4	0.01437	?
10	2.403	VV S	0.0348	8085.68506	0.00960	?
11	2.452	VV S	0.0350	7751.59668	0.00920	?
12	2.492	VV S	0.0360	6734.70947	0.00799	?
13	2.553	VV S	0.0550	1.09048e4	0.01294	?
14	2.609	VV S	0.0359	6701.88184	0.00795	?
15	2.653	VV S	0.0348	4843.07471	0.00575	?
16	2.701	VV S	0.0276	2745.96802	0.00326	?
17	2.731	VV S	0.0322	2425.09570	0.00288	?
18	2.781	VB S	0.0288	2030.10254	0.00241	?
19	2.817	BB T	0.0179	88.50211	0.00011	?
20	6.532	PV	0.0308	19.19580	2.278e-5	?

Uncalib. totals : 8.42515e7 99.9970

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

EPH CVS Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/01/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.0
C_{19}-C_{36} Aliphatics	160	-4.3
C_{11}-C_{22} Aromatics	340	-10.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 8/1/2005 8:47:41 AM          Seq. Line :   1
Sample Name     : K 20 ccal                     Location : Vial 1
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
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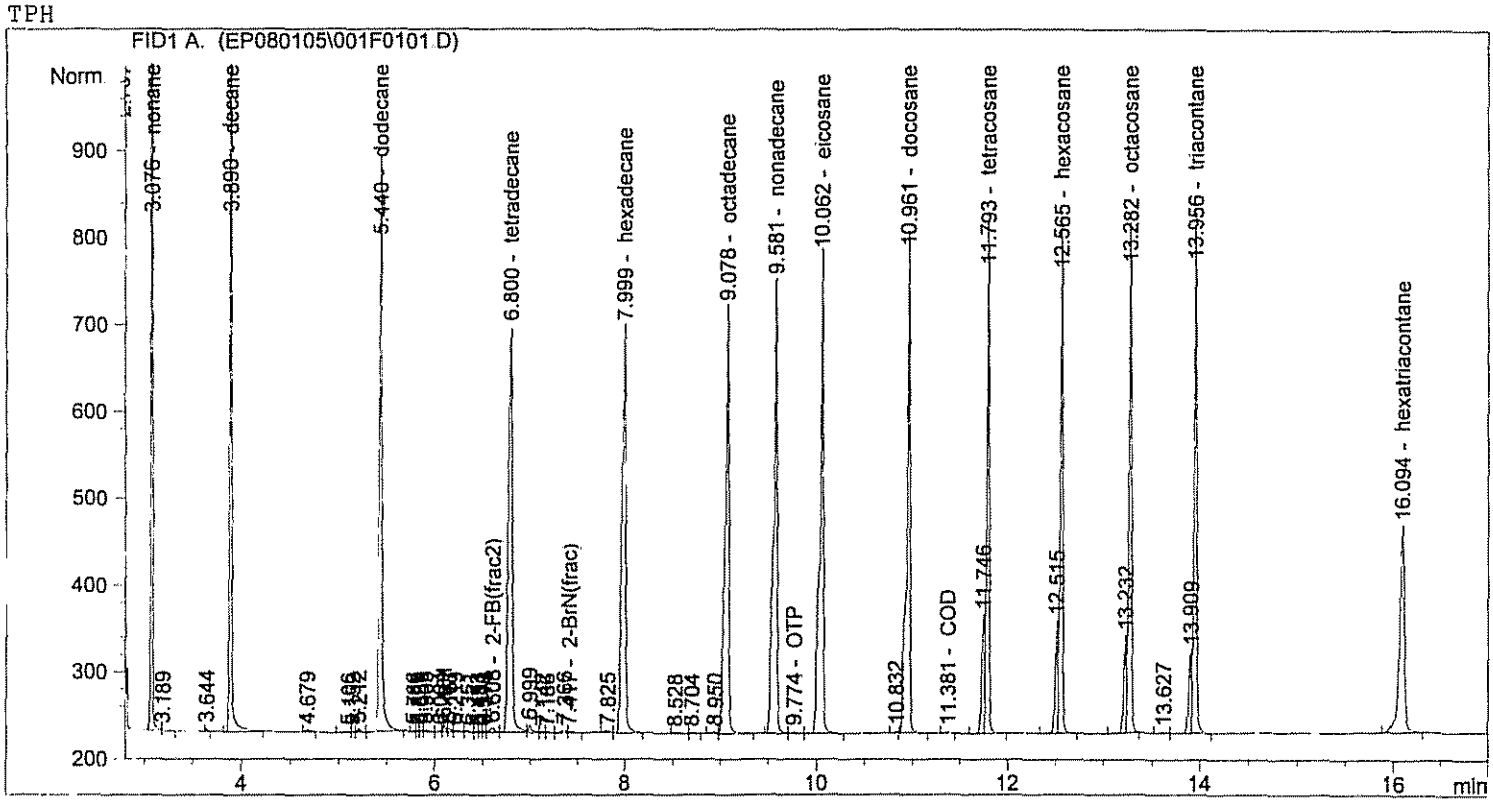


```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.076	VV	0.0169	1291.74585	0.00166	nonane
2	3.890	PB	0.0187	1304.45496	0.00167	decane
3	5.440	VB	0.0292	1305.17334	0.00167	dodecane
4	6.608	VV	0.0567	20.73652	2.658e-5	2-FB(frac2)
5	6.800	VV	0.0390	1323.59216	0.00170	tetradecane
6	7.417	VP	0.0449	6.27713	8.047e-6	2-BrN(frac)
7	7.999	VV	0.0376	1309.16602	0.00168	hexadecane
8	9.078	VB	0.0373	1320.03259	0.00169	octadecane
9	9.581	VV	0.0343	1312.93689	0.00168	nonadecane
10	9.774	VP	0.0498	8.41284	1.078e-5	OTP
11	10.062	VB	0.0337	1311.72290	0.00168	eicosane
12	10.961	VB	0.0315	1305.08850	0.00167	docosane
13	11.381	PP	0.0303	4.68575	6.007e-6	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.793	VB	0.0262	1026.35596	0.00132	tetracosane
15	12.565	VB	0.0281	1057.52124	0.00136	hexacosane
16	13.282	VB	0.0271	1064.65186	0.00136	octacosane
17	13.956	VB	0.0271	1091.39075	0.00140	triacontane
18	16.094	PB	0.0542	862.80365	0.00111	hexatriacontane

Totals : 1.69267e4 2.170e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.551	PV	0.0232	44.76701	5.739e-5	?
2	1.809	VV S	0.9721	7.70540e7	98.77465	?
3	1.851	VV S	0.0174	7.81102e5	1.00129	?
4	1.917	VV S	0.0815	2.60349e4	0.03337	?
5	1.975	VV S	0.0392	1.38132e4	0.01771	?
6	2.024	VV S	0.0378	1.23249e4	0.01580	?
7	2.126	VV S	0.0614	1.89277e4	0.02426	?
8	2.172	VV S	0.0250	7934.25635	0.01017	?
9	2.214	VV S	0.0383	8820.67090	0.01131	?
10	2.272	VV S	0.0970	2.03991e4	0.02615	?
11	2.423	VV S	0.0734	1.36331e4	0.01748	?
12	2.491	VV S	0.0526	9019.95801	0.01156	?
13	2.548	VV S	0.0405	7205.32520	0.00924	?
14	2.595	VV S	0.0348	5302.60645	0.00680	?
15	2.631	VV S	0.0363	6063.67334	0.00777	?
16	2.695	VV S	0.0396	3627.58545	0.00465	?
17	2.748	VV S	0.0408	2818.89282	0.00361	?
18	2.787	VBAS	0.0169	765.67023	0.00098	?
19	3.189	VV	0.0465	8.05628	1.033e-5	?
20	3.644	BP	0.0177	3.90420	5.005e-6	?
21	4.679	PV	0.0502	8.96783	1.150e-5	?
22	5.106	VV	0.0387	4.25287	5.452e-6	?
23	5.152	VV	0.0368	3.44050	4.410e-6	?
24	5.212	VP	0.0315	7.98121	1.023e-5	?
25	5.786	PV	0.0276	1.72321	2.209e-6	?
26	5.825	VV	0.0196	1.71027	2.192e-6	?
27	5.859	VV	0.0287	3.72182	4.771e-6	?
28	5.905	VP	0.0427	6.89722	8.841e-6	?
29	6.064	VV	0.0285	3.55683	4.559e-6	?
30	6.101	VV	0.0266	15.75975	2.020e-5	?
31	6.157	VV	0.0377	9.14253	1.172e-5	?
32	6.219	VV	0.0487	5.60191	7.181e-6	?
33	6.351	VV	0.0477	4.23985	5.435e-6	?
34	6.453	VV	0.0287	3.22853	4.139e-6	?
35	6.481	VV	0.0277	3.89304	4.990e-6	?
36	6.516	VV	0.0291	3.60687	4.624e-6	?
37	6.999	VV	0.0394	23.78882	3.049e-5	?
38	7.142	VV	0.0461	6.14354	7.875e-6	?
39	7.186	VV	0.0439	4.10311	5.260e-6	?
40	7.366	VV	0.0502	14.08318	1.805e-5	?
41	7.825	VV	0.0449	9.08563	1.165e-5	?
42	8.528	VP	0.0590	5.16408	6.620e-6	?
43	8.704	BB	0.0297	2.33396	2.992e-6	?
44	8.950	PV	0.0466	6.28760	8.060e-6	?
45	10.832	VV	0.0328	5.64982	7.242e-6	?
46	11.746	VV	0.0291	281.69440	0.00036	?
47	12.515	VV	0.0287	252.32115	0.00032	?
48	13.232	PV	0.0313	223.06580	0.00029	?
49	13.627	BP	0.0351	3.22543	4.135e-6	?
50	13.909	VV	0.0315	190.65881	0.00024	?

Uncalib. totals : 7.79930e7 99.9783

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

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==========================================================================
Injection Date  : 8/1/2005 9:14:27 AM          Seq. Line :   2
Sample Name     : R 20 ccal                     Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
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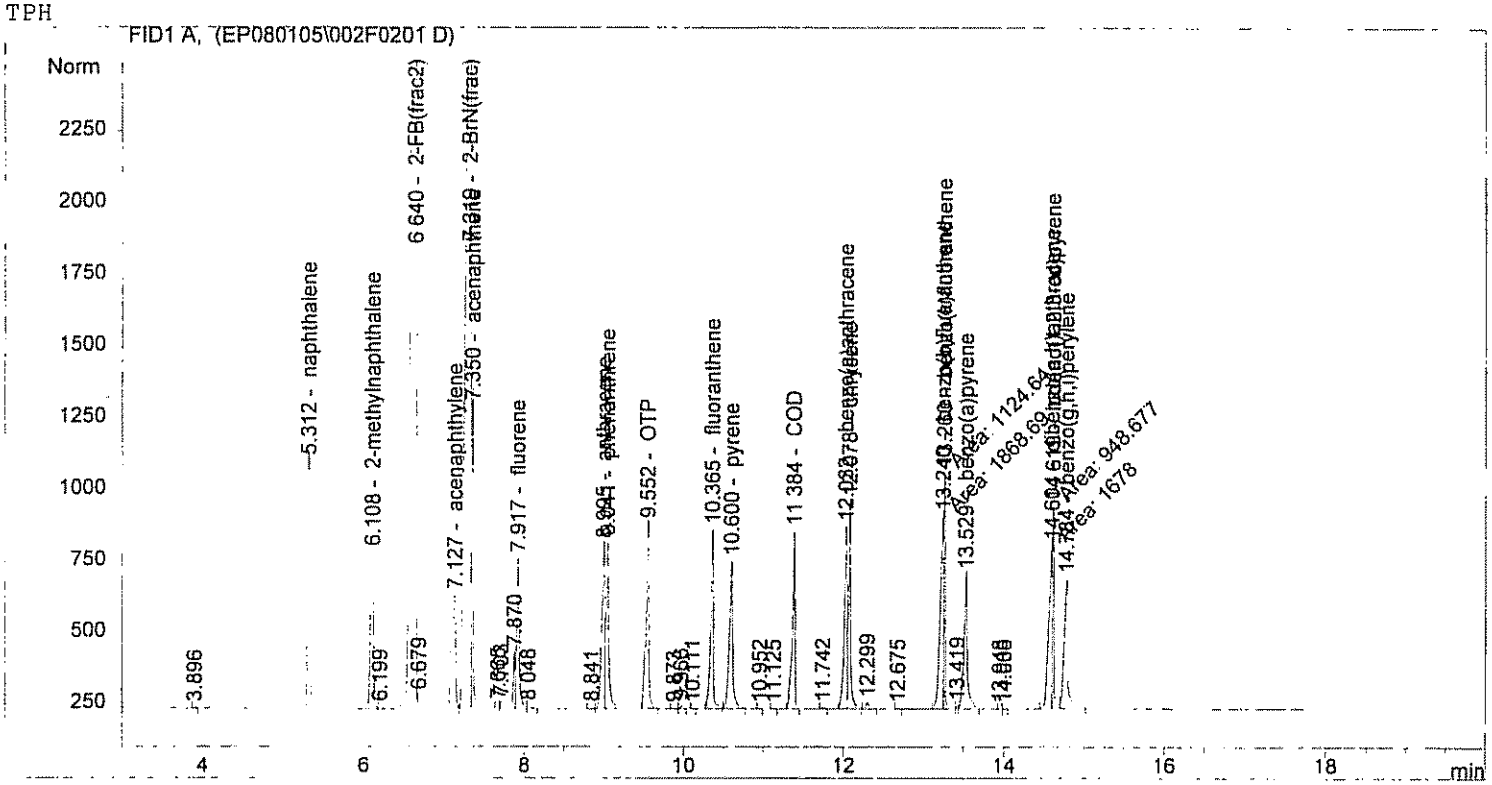


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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BB	0.0276	1533.66699	0.00202	naphthalene
2	6.108	BV	0.0358	1456.23132	0.00191	2-methylnaphthalene
3	6.640	BV	0.0529	1.80250e4	0.02370	2-FB(frac2)
4	7.127	PP	0.0487	1457.44556	0.00192	acenaphthylene
5	7.319	VV	0.0500	1.26519e4	0.01664	2-BrN(frac)
6	7.350	VB	0.0183	1288.25171	0.00169	acenaphthene
7	7.917	VV	0.0300	1132.54321	0.00149	fluorene
8	8.995	VV	0.0349	1481.86670	0.00195	anthracene
9	9.041	VB	0.0329	1403.88025	0.00185	phenanthrene
10	9.552	BB	0.0337	1590.54382	0.00209	OTP
11	10.365	BB	0.0341	1458.15955	0.00192	fluoranthene
12	10.600	BB	0.0406	1530.97791	0.00201	pyrene
13	11.384	BB	0.0319	1382.14990	0.00182	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	12.032	BV	0.0333	1549.46545	0.00204	benzo(a)anthracene
15	12.078	VB	0.0283	1385.21838	0 00182	chrysene
16	13.240	MF	0.0461	1868.68518	0.00246	benzo(b)fluoranthene
17	13.260	FM	0.0226	1124.64368	0.00148	benzo(k)fluoranthene
18	13.529	VB	0.0421	1411.64575	0.00186	benzo(a)pyrene
19	14.604	MF	0.0489	1677.99670	0.00221	dibenzo(a,h)anthracene
20	14.619	FM	0.0222	948.67719	0.00125	indeno(1,2,3-cd)pyrene
21	14.784	VB	0.0436	1428.90881	0.00188	benzo(g,h,i)perylene

Totals : 5.77879e4 7.598e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.572	PP S	7.10e-3	9514.21387	0.01251	?
2	0.610	VV S	0.0194	1.31607e5	0.17305	?
3	0.717	VV S	0.0538	1.91622e6	2.51962	?
4	1.789	VV S	0.9177	7.30314e7	96.02797	?
5	1.824	VV S	0.0164	7.61604e5	1.00142	?
6	1.912	VV S	0.0369	1.33951e4	0.01761	?
7	1.964	VV S	0.0414	1.18488e4	0.01558	?
8	2.008	VV S	0.0380	1.05541e4	0.01388	?
9	2.064	VV S	0.0428	1.08411e4	0.01425	?
10	2.117	VV S	0.0506	1.21879e4	0.01603	?
11	2.172	VV S	0.0361	9486.92188	0.01247	?
12	2.225	VV S	0.0429	9981.10742	0.01312	?
13	2.276	VV S	0.0253	6252.73779	0.00822	?
14	2.324	VV S	0.0441	8958.23438	0.01178	?
15	2.381	VV S	0.0565	1.02194e4	0.01344	?
16	2.434	VV S	0.0274	6439.44873	0.00847	?
17	2.477	VV S	0.0220	4975.45703	0.00654	?
18	2.523	VV S	0.0361	6779.07227	0.00891	?
19	2.561	VV S	0.0274	4960.01221	0.00652	?
20	2.609	VV S	0.0540	7699.88330	0.01012	?
21	2.661	VV S	0.0272	3148.38721	0.00414	?
22	2.703	VV S	0.0352	3130.89819	0.00412	?
23	2.761	VB S	0.0390	2526.45117	0.00332	?
24	3.896	BB	0.0256	3.35492	4.411e-6	?
25	6.199	VB	0.0445	22.62573	2.975e-5	?
26	6.679	VB	0.0288	94.06718	0.00012	?
27	7.665	PV	0.0256	17.46792	2.297e-5	?
28	7.703	VB	0.0268	42.51852	5.591e-5	?
29	7.870	BV	0.0247	319.49597	0.00042	?
30	8.048	VB	0.0434	28.34574	3.727e-5	?
31	8.841	BP	0.0337	14.56781	1.916e-5	?
32	9.873	PB	0.0277	6.41269	8.432e-6	?
33	9.966	BP	0.0254	19.03285	2.503e-5	?
34	10.111	PP	0.0228	2.23604	2.940e-6	?
35	10.952	PP	0.0224	2.06163	2.711e-6	?
36	11.125	BB	0.0315	3.40766	4.481e-6	?
37	11.742	BB	0.0311	12.26880	1.613e-5	?
38	12.299	BB	0.0527	79.31598	0.00010	?
39	12.675	PB	0.0270	3.28222	4.316e-6	?
40	13.419	VV	0.0254	15.46702	2.034e-5	?
41	13.948	BP	0.0242	2.08307	2.739e-6	?
42	14.006	VP	0.0227	2.65210	3.487e-6	?

Uncalib. totals : 7.59944e7 99.9240

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

EPH QC, Blanks Raw Data

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==================================================================
Injection Date  : 9/23/2005 3:19:11 AM          Seq. Line :  41
Sample Name     : lcs3239 x1 K                   Location : Vial 41
Acq. Operator   : DCS 3239 JC 9/23               Inj :    1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 9/23/2005 10:16:50 AM by DCS
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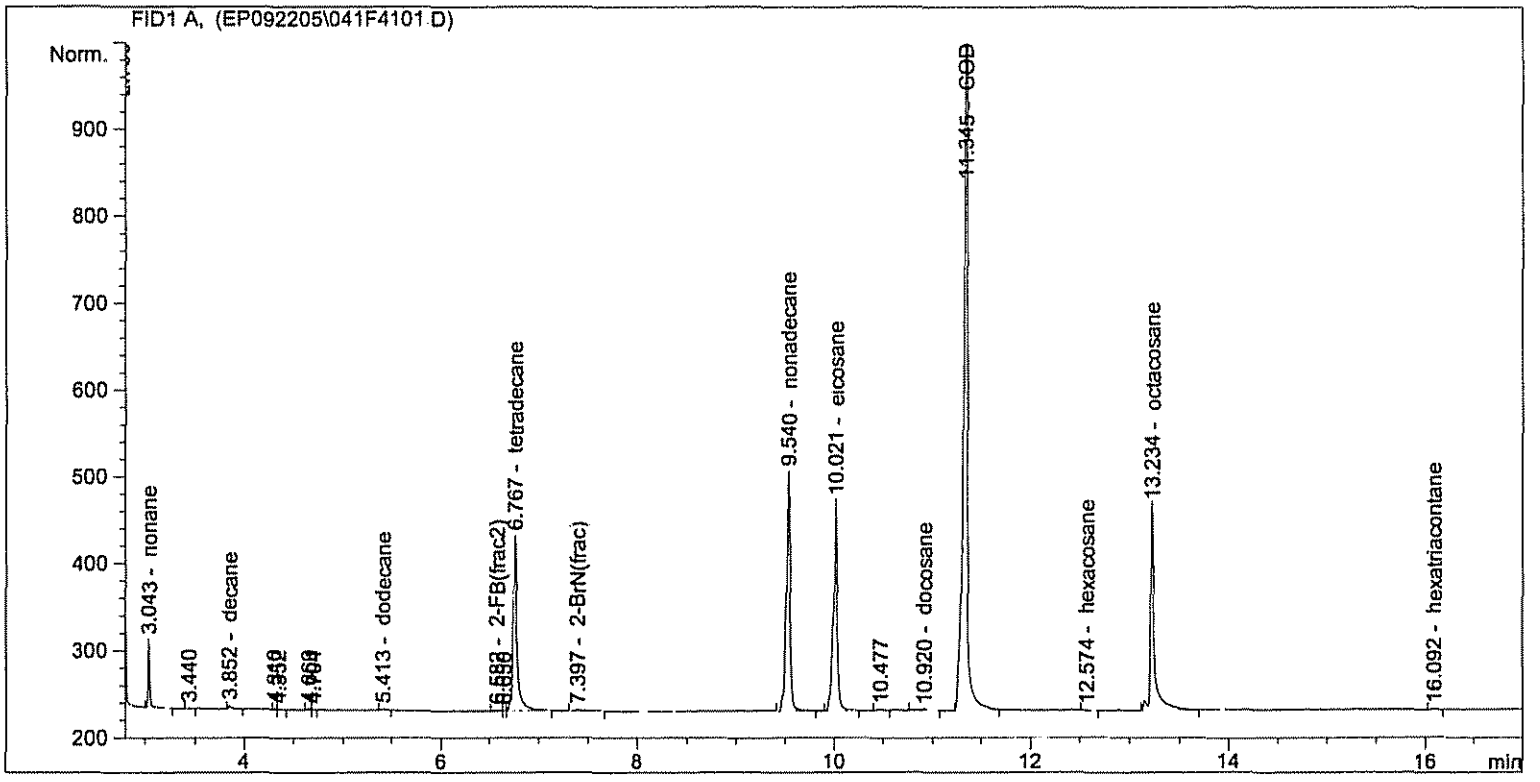
TPH

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==================================================================
                      Area Percent Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/20/2005 8:28:13 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.043	VB	0.0178	91.75698	0.00012	nonane
2	3.852	VB	0.0326	9.39702	1.199e-5	decane
3	5.413	BB	0.0420	4.37355	5.578e-6	dodecane
4	6.582	BV	0.0583	6.06293	7.733e-6	2-FB(frac2)
5	6.767	VB	0.0420	586.16864	0.00075	tetradecane
6	7.397	BP	0.1043	8.89655	1.135e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.525		0.0000	0.00000	0.00000	OTP
10	9.540	VB	0.0404	766.83398	0.00098	nonadecane
11	10.021	VB	0.0369	659.36493	0.00084	eicosane
12	10.920	BB	0.0729	7.88501	1.006e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.345	BB	0.0420	2528.71655	0.00323	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.574	VB	0.0332	2.68762	3.428e-6	hexacosane
16	13.234	BB	0.0417	641.82434	0.00082	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.092	PB	0.0498	3.39859	4.335e-6	hexatriacontane

Totals : 5317.36669 6.782e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.543	VV	0.0191	180.59164	0.00023	?
2	0.630	VV S	0.0128	5102.39600	0.00651	?
3	0.666	VV S	0.0197	2.85281e5	0.36386	?
4	1.776	VV S	0.9628	7.70927e7	98.32655	?
5	1.842	VV S	0.0192	8.94803e5	1.14126	?
6	1.927	PV T	0.0706	3.01854e4	0.03850	?
7	1.971	VV T	0.0375	9808.02441	0.01251	?
8	2.011	VV T	0.0284	7447.04932	0.00950	?
9	2.059	VV T	0.0261	7620.95605	0.00972	?
10	2.092	VV T	0.0212	5040.18750	0.00643	?
11	2.134	VV T	0.0293	6786.91846	0.00866	?
12	2.154	VV T	0.0215	3812.47998	0.00486	?
13	2.190	VV T	0.0330	5895.91943	0.00752	?
14	2.241	VV T	0.0392	8194.60254	0.01045	?
15	2.319	VV T	0.0449	9993.10059	0.01275	?
16	2.375	VV T	0.0338	6073.29785	0.00775	?
17	2.436	VV T	0.0292	4556.34277	0.00581	?
18	2.472	VV T	0.0217	2440.20483	0.00311	?
19	2.516	VV T	0.0396	4310.61084	0.00550	?
20	2.566	VB T	0.0520	7150.38721	0.00912	?
21	2.766	VBAS	0.0405	2047.91492	0.00261	?
22	3.440	PV	0.0322	2.41993	3.086e-6	?
23	4.310	VV	0.0199	2.70079	3.445e-6	?
24	4.352	VB	0.0273	2.03994	2.602e-6	?
25	4.660	VV	0.0313	3.72461	4.750e-6	?
26	4.704	VV	0.0266	2.03343	2.594e-6	?
27	6.650	VV	0.0262	2.01954	2.576e-6	?
28	10.477	BP	0.0554	4.03568	5.147e-6	?

Uncalib. totals : 7.83994e7 99.9932

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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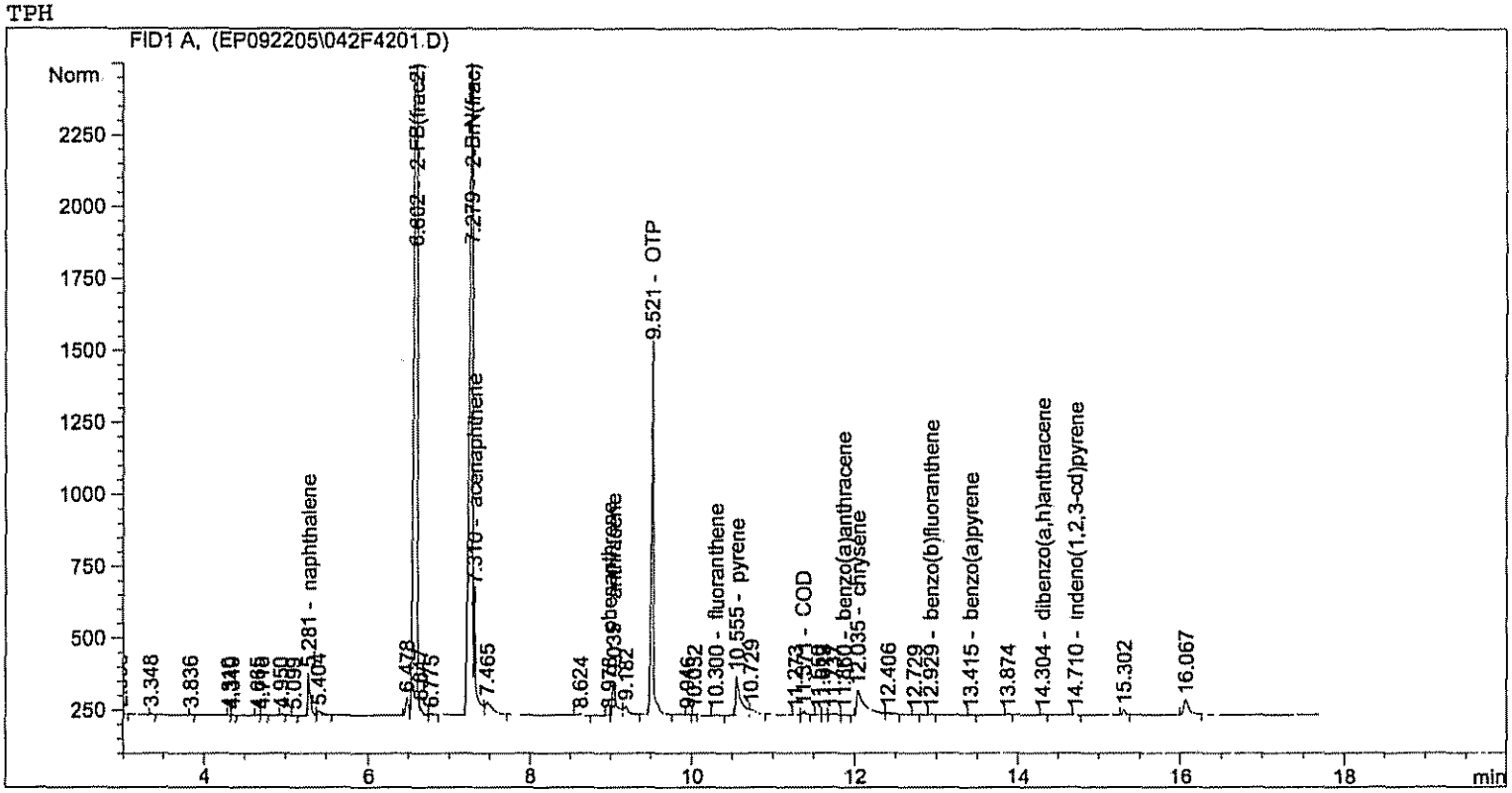
Injection Date : 9/23/2005 3:46:53 AM Seq. Line : 42
Sample Name : lcs3239 x1 R Location : Vial 42
Acq. Operator : DCS Inj : 1
Acq. Instrument : GC6 Inj Volume : 10 µl
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed : 9/23/2005 10:13:45 AM by DCS
(modified after loading)

TPH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 9/23/2005 9:33:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.281	PV	0.0314	306.91464	0.00049	naphthalene
2	6.068		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.602	VV	0.0379	8970.28906	0.01442	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.279	PV	0.0369	6578.13672	0.01057	2-BrN(frac)
6	7.310	VV	0.0243	759.98285	0.00122	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	8.978	PV	0.0241	3.93967	6.333e-6	phenanthrene
9	9.035	VV	0.0516	410.56213	0.00066	anthracene
10	9.521	BB	0.0263	2347.42334	0.00377	OTP
11	10.300	PP	0.0529	7.41576	1.192e-5	fluoranthene
12	10.555	BV	0.0556	558.45831	0.00090	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.371	BB	0.0319	26.05337	4.188e-5	COD
14	11.860	BB	0.0310	3.66173	5.886e-6	benzo(a)anthracene
15	12.035	PV	0.0858	566.20453	0.00091	chrysene
16	12.929	BB	0.0299	4.16830	6.700e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.415	PB	0.0331	6.06142	9.744e-6	benzo(a)pyrene
19	14.304	PP	0.0299	4.28025	6.880e-6	dibenzo(a,h)anthracene
20	14.710	BB	0.0347	4.24338	6.821e-6	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.05578e4 3.305e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.527	BV S	0.7549	5.77442e7	92.82163	?
2	1.571	VV S	0.0193	9.39628e5	1.51042	?
3	1.609	VV S	0.0461	2.40901e5	0.38724	?
4	1.706	VV S	0.0922	4.23684e5	0.68106	?
5	1.771	VV S	0.0275	1.52274e5	0.24477	?
6	1.800	VV S	0.0333	1.27371e5	0.20474	?
7	1.841	VV S	0.0293	1.40260e5	0.22546	?
8	1.882	VV S	0.0395	1.88621e5	0.30320	?
9	1.932	VV S	0.0432	1.91498e5	0.30783	?
10	1.993	VV S	0.0353	1.59331e5	0.25612	?
11	2.030	VV S	0.0261	9.71299e4	0.15613	?
12	2.075	VV S	0.0366	1.65118e5	0.26542	?
13	2.114	VV S	0.0320	1.21005e5	0.19451	?
14	2.159	VV S	0.0428	1.66716e5	0.26799	?
15	2.218	VV S	0.0328	1.26042e5	0.20261	?
16	2.261	VV S	0.0517	1.62862e5	0.26180	?
17	2.328	VV S	0.0444	1.66732e5	0.26802	?
18	2.375	VV S	0.0313	1.04231e5	0.16755	?
19	2.411	VV S	0.0335	9.98893e4	0.16057	?
20	2.457	VV S	0.0307	1.05676e5	0.16987	?
21	2.491	VV S	0.0245	8.79622e4	0.14140	?
22	2.530	VV S	0.0384	1.07829e5	0.17333	?
23	2.575	VV S	0.0301	1.05409e5	0.16944	?
24	2.627	VV S	0.0741	2.05754e5	0.33074	?
25	2.717	VV S	0.0238	2.34324e4	0.03767	?
26	2.757	VB S	0.0388	3.46199e4	0.05565	?
27	2.963	BB X	0.0198	3.02939	4.870e-6	?
28	3.348	PP	0.0223	8.49510	1.366e-5	?
29	3.836	PB	0.0224	7.03891	1.131e-5	?
30	4.310	BV	0.0197	1.66090	2.670e-6	?
31	4.349	VB	0.0233	4.40291	7.078e-6	?
32	4.665	PV	0.0300	3.15636	5.074e-6	?
33	4.718	VB	0.0389	6.60999	1.063e-5	?
34	4.950	PB	0.0234	6.26767	1.008e-5	?
35	5.099	PB	0.0245	1.93639	3.113e-6	?
36	5.404	VB	0.0554	61.34463	9.861e-5	?
37	6.478	PV	0.0352	126.53274	0.00020	?
38	6.647	VV	0.0265	62.61703	0.00010	?
39	6.775	VB	0.0361	16.59985	2.668e-5	?
40	7.465	VB	0.0738	276.85526	0.00045	?
41	8.624	PP	0.0620	9.20407	1.480e-5	?
42	9.182	VB	0.0561	130.29678	0.00021	?
43	9.946	BP	0.0319	2.40239	3.862e-6	?
44	10.032	BV	0.0235	2.48443	3.994e-6	?
45	10.729	VB	0.0575	85.58360	0.00014	?
46	11.273	BB	0.0299	2.23943	3.600e-6	?
47	11.550	PV	0.0334	3.32773	5.349e-6	?
48	11.613	VB	0.0268	1.86403	2.996e-6	?
49	11.737	BB	0.0365	7.23188	1.162e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	12.406	VB	0.0626	26.81201	4.310e-5	?
51	12.729	PP	0.0298	2.96129	4.760e-6	?
52	13.874	BB	0.0303	5.02392	8.076e-6	?
53	15.302	BB	0.0369	39.70810	6.383e-5	?
54	16.067	PB	0.0629	215.60179	0.00035	?

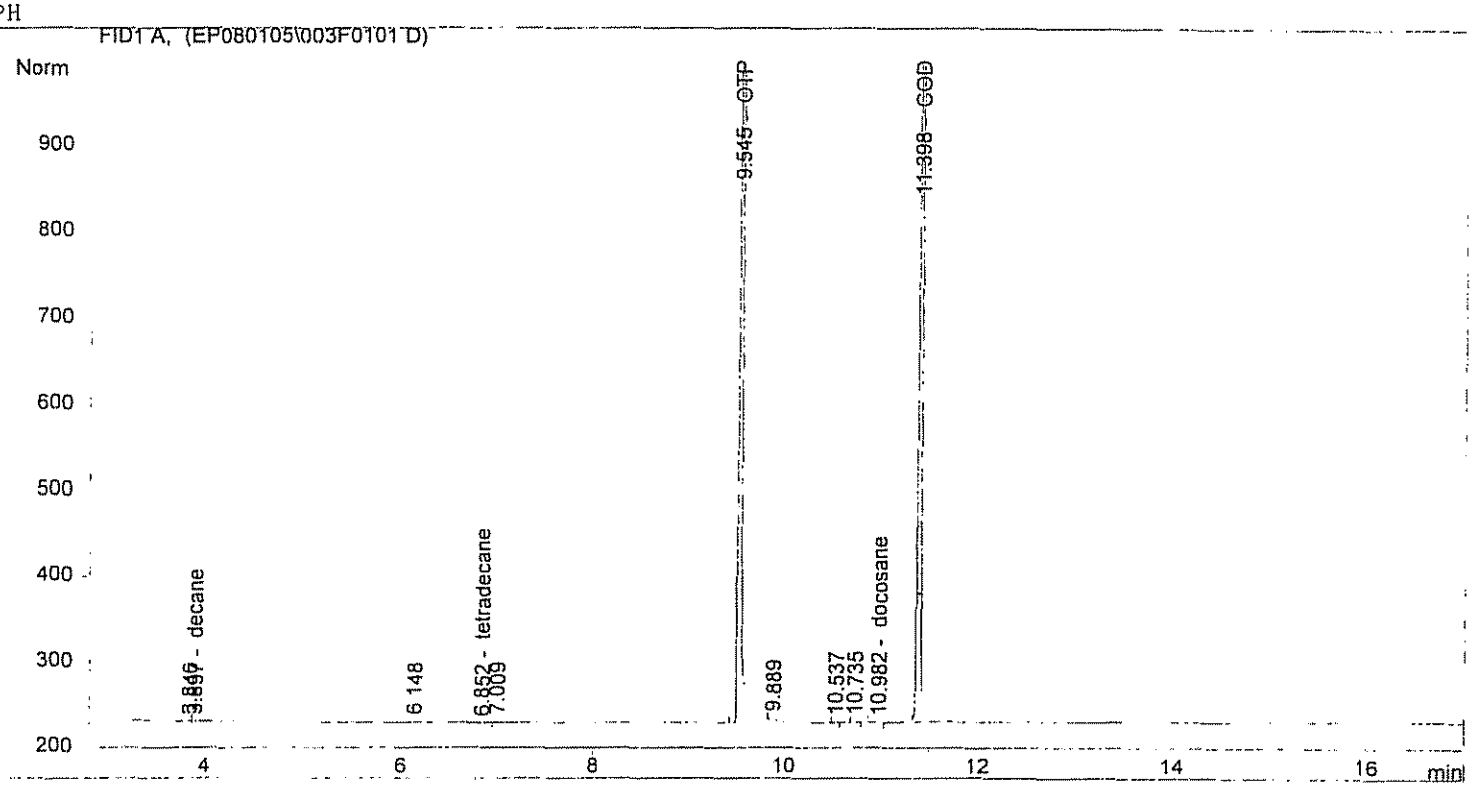
Uncalib. totals : 6.21893e7 99.9670

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

```
==========================================================================
Injection Date  : 8/1/2005 4:23:56 PM          Seq. Line :   1
Sample Name     : pb3329                        Location : Vial 3
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\080105.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/27/2005 10:59:33 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/27/2005 10:59:25 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.072		0.0000	0.00000	0.00000	nonane
2	3.897	VV	0.0776	8.39311	1.371e-5	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.852	BV	0.0529	5.28206	8.630e-6	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.545	VB	0.0261	2816.22046	0.00460	OTP
10	9.581		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	10.982	PP	0.0232	2.48289	4.057e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.398	VB	0.0269	2649.60400	0.00433	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5481.98253 8.957e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.465	BV S	0.2314	6.11471e7	99.90843	?
2	1.309	VV S	0.0286	6407.72461	0.01047	?
3	1.346	VV S	0.0396	6925.71045	0.01132	?
4	1.401	VV S	0.0368	5141.22070	0.00840	?
5	1.439	VV S	0.0381	4740.52881	0.00775	?
6	1.506	VV S	0.0432	3887.30444	0.00635	?
7	1.551	VV S	0.0270	2042.64355	0.00334	?
8	1.584	VV S	0.0322	1954.84216	0.00319	?
9	1.637	VV S	0.0471	2666.07764	0.00436	?
10	1.681	VV S	0.0265	1324.09717	0.00216	?
11	1.715	VV S	0.0311	1608.36304	0.00263	?
12	1.764	VV S	0.0340	1528.08716	0.00250	?
13	1.823	VV S	0.0852	2751.13232	0.00450	?
14	1.900	VV S	0.0335	1096.16541	0.00179	?
15	1.956	VBAS	0.2527	5677.84326	0.00928	?
16	2.023	BV X	0.0217	309.34909	0.00051	?
17	2.072	VV X	0.0231	176.78410	0.00029	?
18	2.122	VV X	0.0257	249.28719	0.00041	?
19	2.173	VV X	0.0211	162.06435	0.00026	?
20	2.234	VV X	0.0259	226.01950	0.00037	?
21	2.284	VV X	0.0245	176.56801	0.00029	?
22	2.346	VV X	0.0183	129.50977	0.00021	?
23	2.385	VV T	0.0226	129.04187	0.00021	?
24	2.425	VV T	0.0204	119.46156	0.00020	?
25	2.477	VV T	0.0402	187.70480	0.00031	?
26	2.527	VV T	0.0181	119.83637	0.00020	?
27	2.595	VV T	0.0632	312.92136	0.00051	?
28	2.673	VV T	0.0211	136.59621	0.00022	?
29	2.710	VBAT	0.0551	322.64029	0.00053	?
30	3.846	VV	0.0720	6.94875	1.135e-5	?
31	6.148	PB	0.0730	16.89827	2.761e-5	?
32	7.009	VP	0.0606	14.65289	2.394e-5	?
33	9.889	BP	0.0271	4.87306	7.962e-6	?
34	10.537	BV	0.0264	3.25161	5.313e-6	?
35	10.735	VB	0.0266	3.08332	5.038e-6	?

Uncalib. totals : 6.11977e7 99.9910

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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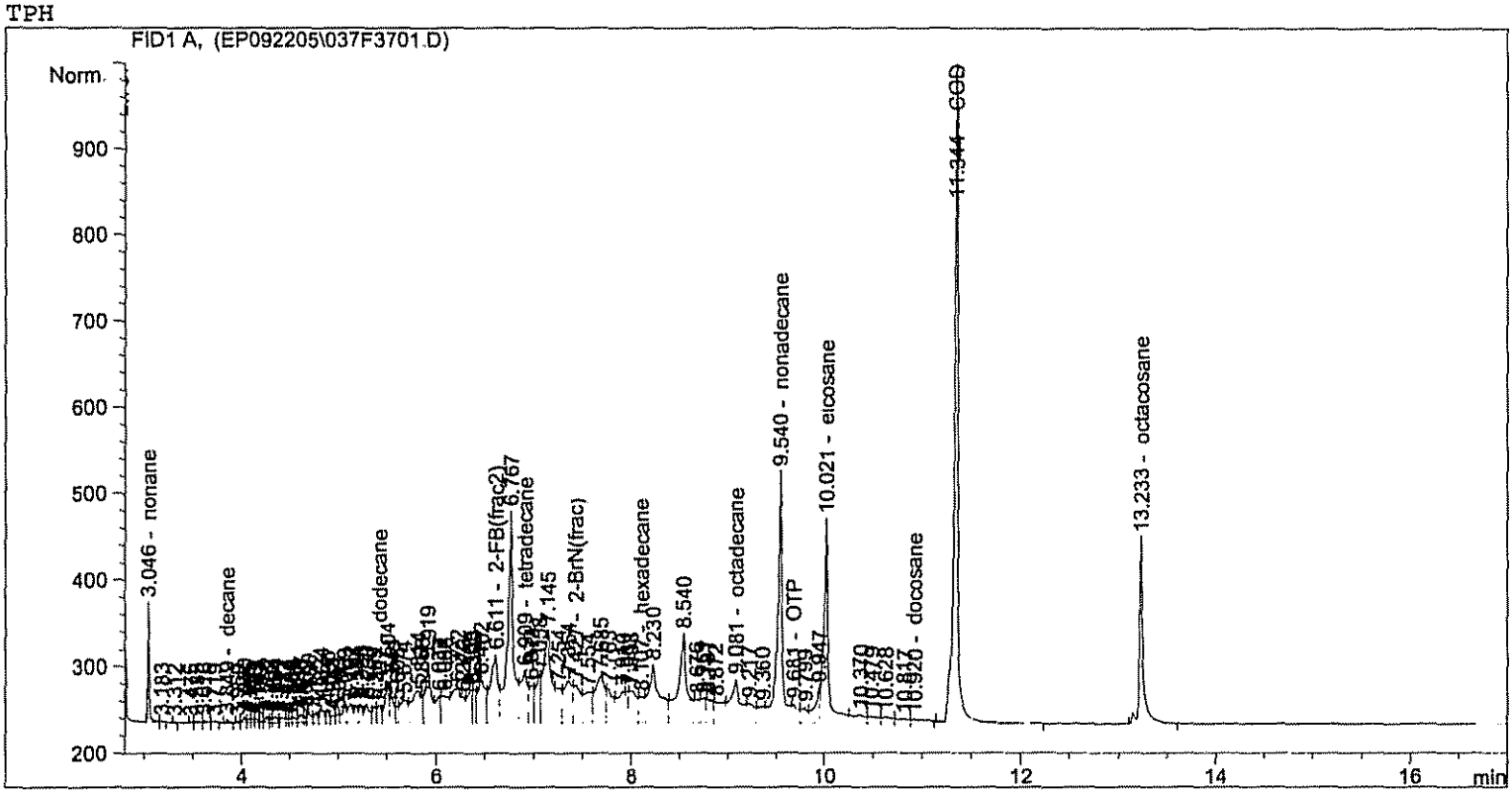
*** End of Report ***

```
==================================================================
Injection Date  : 9/23/2005 1:29:02 AM          Seq. Line :  37
Sample Name     : 146963 x1 ms K                 Location : Vial 37
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 9/23/2005 10:16:37 AM by DCS
                  (modified after loading)
```

TPH




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.046	VV	0.0168	150.98267	0.00019	nonane
2	3.849	VV	0.0312	9.36065	1.182e-5	decane
3	5.417	VV	0.0429	62.26839	7.860e-5	dodecane
4	6.611	VV	0.0681	425.09412	0.00054	2-FB(frac2)
5	6.909	VV	0.0615	290.15680	0.00037	tetradecane
6	7.427	VV	0.0597	206.82416	0.00026	2-BrN(frac)
7	8.107	VV	0.0461	112.37833	0.00014	hexadecane
8	9.081	VV	0.0969	380.65182	0.00048	octadecane
9	9.540	VV	0.0469	1020.36523	0.00129	nonadecane
10	9.681	VV	0.0566	95.66457	0.00012	OTP
11	10.021	VV	0.0456	782.94440	0.00099	eicosane
12	10.920	VB	0.1336	50.90025	6.425e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.344	BB	0.0396	2125.89160	0.00268	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.233	BB	0.0417	584.93872	0.00074	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6298.42171 7.950e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.550	PV	0.0203	154.49879	0.00020	?
2	0.584	VV	0.0222	56.34329	7.112e-5	?
3	0.666	VV S	0.0187	2.76478e5	0.34898	?
4	1.770	VV S	0.6882	7.79287e7	98.36318	?
5	1.847	VV S	0.0181	8.64032e5	1.09060	?
6	1.888	VV S	0.0246	8173.22656	0.01032	?
7	1.931	VV S	0.0347	1.06272e4	0.01341	?
8	1.975	VV S	0.0452	1.19514e4	0.01509	?
9	2.034	VV S	0.0457	1.06971e4	0.01350	?
10	2.076	VV S	0.0394	9946.12305	0.01255	?
11	2.130	VV S	0.0433	9639.59570	0.01217	?
12	2.185	VV S	0.0361	8348.09375	0.01054	?
13	2.227	VV S	0.0343	6519.44141	0.00823	?
14	2.261	VV S	0.0325	6692.10840	0.00845	?
15	2.327	VV S	0.0593	1.03253e4	0.01303	?
16	2.368	VV S	0.0285	5700.40527	0.00720	?
17	2.411	VV S	0.0289	5696.80078	0.00719	?
18	2.445	VV S	0.0288	4955.45312	0.00625	?
19	2.481	VV S	0.0299	5385.24609	0.00680	?
20	2.520	VV S	0.0349	6443.15234	0.00813	?
21	2.578	VV S	0.0425	7369.06152	0.00930	?
22	2.626	VV S	0.0331	4904.85889	0.00619	?
23	2.663	VV S	0.0276	2528.98730	0.00319	?
24	2.702	VV S	0.0310	2207.49292	0.00279	?
25	2.757	VBAS	0.0433	2621.57471	0.00331	?
26	3.183	VV	0.0299	2.44613	3.088e-6	?
27	3.312	VV	0.0191	2.03266	2.566e-6	?
28	3.475	VV	0.0275	1.98122	2.501e-6	?
29	3.535	VV	0.0388	5.45257	6.882e-6	?
30	3.616	VV	0.0269	4.11327	5.192e-6	?
31	3.719	VV	0.0373	3.09649	3.908e-6	?
32	3.959	VV	0.0343	3.43378	4.334e-6	?
33	4.030	VV	0.0279	13.93439	1.759e-5	?
34	4.085	VV	0.0281	9.47511	1.196e-5	?
35	4.121	VV	0.0302	8.41328	1.062e-5	?
36	4.155	VV	0.0265	8.12660	1.026e-5	?
37	4.197	VV	0.0283	3.48367	4.397e-6	?
38	4.262	VV	0.0293	15.93223	2.011e-5	?
39	4.308	VV	0.0194	8.68008	1.096e-5	?
40	4.354	VV	0.0395	21.93066	2.768e-5	?
41	4.412	VV	0.0426	21.57295	2.723e-5	?
42	4.474	VV	0.0220	7.70764	9.729e-6	?
43	4.508	VV	0.0246	9.63982	1.217e-5	?
44	4.545	VV	0.0393	17.01132	2.147e-5	?
45	4.617	VV	0.0485	29.10476	3.674e-5	?
46	4.659	VV	0.0214	8.75360	1.105e-5	?
47	4.700	VV	0.0335	32.80600	4.141e-5	?
48	4.772	VV	0.0337	31.69109	4.000e-5	?
49	4.824	VV	0.0375	59.47348	7.507e-5	?
50	4.896	VV	0.0278	30.72185	3.878e-5	?
51	4.943	VV	0.0378	22.22614	2.805e-5	?
52	5.001	VV	0.0386	25.23910	3.186e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.069	VV	0.0431	60.08269	7.584e-5	?
54	5.132	VV	0.0435	72.31853	9.128e-5	?
55	5.184	VV	0.0344	48.12100	6.074e-5	?
56	5.230	VV	0.0334	48.59850	6.134e-5	?
57	5.290	VV	0.0497	79.56321	0.00010	?
58	5.369	VV	0.0379	52.97512	6.687e-5	?
59	5.504	VV	0.0404	144.51640	0.00018	?
60	5.544	VV	0.0396	90.55018	0.00011	?
61	5.605	VV	0.0284	37.18625	4.694e-5	?
62	5.674	VV	0.0642	136.92903	0.00017	?
63	5.814	VV	0.0834	236.28290	0.00030	?
64	5.858	VV	0.0189	43.61563	5.505e-5	?
65	5.919	VV	0.0558	286.47348	0.00036	?
66	6.032	VV	0.0456	101.93266	0.00013	?
67	6.088	VV	0.0711	172.45158	0.00022	?
68	6.222	VV	0.0777	249.90369	0.00032	?
69	6.273	VV	0.0297	68.77306	8.681e-5	?
70	6.363	VV	0.0477	146.32034	0.00018	?
71	6.390	VV	0.0319	88.15967	0.00011	?
72	6.462	VV	0.0726	272.12436	0.00034	?
73	6.767	VV	0.0554	1033.23230	0.00130	?
74	6.974	VV	0.0460	143.29903	0.00018	?
75	7.058	VV	0.0458	198.42326	0.00025	?
76	7.145	VV	0.0716	578.34814	0.00073	?
77	7.254	VV	0.0538	179.63829	0.00023	?
78	7.354	VV	0.0781	302.49103	0.00038	?
79	7.554	VV	0.0763	227.52174	0.00029	?
80	7.685	VV	0.0830	369.71732	0.00047	?
81	7.763	VV	0.0552	179.98282	0.00023	?
82	7.910	VV	0.0706	204.49318	0.00026	?
83	7.961	VV	0.0269	77.69667	9.807e-5	?
84	7.998	VV	0.0721	221.59904	0.00028	?
85	8.230	VV	0.1039	554.89752	0.00070	?
86	8.540	VV	0.0838	676.52435	0.00085	?
87	8.676	VV	0.0429	93.51601	0.00012	?
88	8.751	VV	0.0458	101.51603	0.00013	?
89	8.787	VV	0.0570	130.63741	0.00016	?
90	8.872	VV	0.0893	176.88965	0.00022	?
91	9.217	VV	0.0738	132.26147	0.00017	?
92	9.360	VV	0.0697	102.93969	0.00013	?
93	9.799	VV	0.0619	88.17816	0.00011	?
94	9.947	VV	0.0508	155.22934	0.00020	?
95	10.370	VV	0.1140	94.96949	0.00012	?
96	10.479	VV	0.0973	58.94436	7.440e-5	?
97	10.628	VV	0.0962	48.72283	6.150e-5	?
98	10.817	VV	0.1134	46.48375	5.867e-5	?

Uncalib. totals : 7.92192e7 99.9921

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

==========
*** End of Report ***

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\EP092205\038F3801.D
perator : DCS
nstrument : GC6
ample Name : G111-769-1J x1 ms R
un Time Bar Code: 146963
cquired on : 23 Sep 05 1:56:52 AM
eport Created on: 23 Sep 2005 10:16:17 AM
ast Recalib on : 23 Sep 2005 9:33:55 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 38
Injection Number : 1
Sequence Line : 38
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

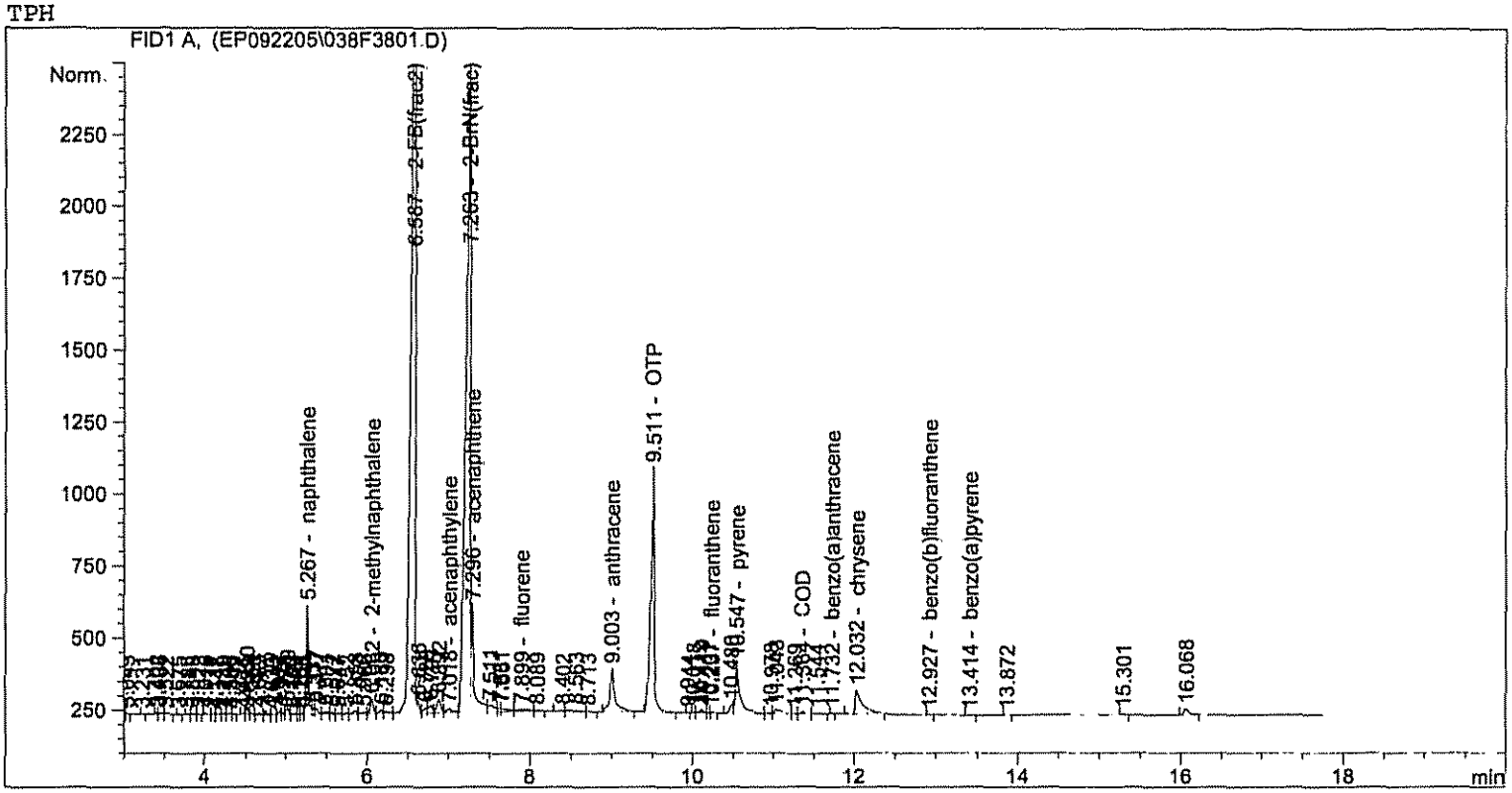
ig. 1 in C:\HPCHEM\1\DATA\EP092205\038F3801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.267	670.64075	VV	0.02	1	0.00086	naphthalene
6.062	137.74988	VV	0.04	2	0.00018	2-methylnaphthalene
6.587	1.13528e4	VV	0.04	3	0.01452	2-FB(frac2)
7.018	80.74057	VV	0.07	4	0.00010	acenaphthylene
7.263	8546.54980	VV	0.05	5	0.01093	2-BrN(frac)
7.296	883.35425	VV	0.03	6	0.00113	acenaphthene
7.899	83.12497	VV	0.13	7	0.00011	fluorene
8.955	0.00000	XX	0.00	8	0.00000	phenanthrene
9.003	645.39752	PB	0.05	9	0.00083	anthracene
9.511	2463.04736	PP	0.03	10	0.00315	OTP
10.237	6.01266	VB	0.03	11	7.690e-6	fluoranthene
10.547	680.35480	VB	0.05	12	0.00087	pyrene
11.364	20.90446	VP	0.03	13	2.674e-5	COD
11.732	3.24701	BB	0.02	14	4.153e-6	benzo(a)anthracene
12.032	498.99362	VB	0.07	15	0.00064	chrysene
12.927	2.62389	BP	0.03	16	3.356e-6	benzo(b)fluoranthene
13.215	0.00000	XX	0.00	17	0.00000	benzo(k)fluoranthene
13.414	4.03622	BP	0.04	18	5.162e-6	benzo(a)pyrene
14.607	0.00000	XX	0.00	19	0.00000	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.817	0.00000	XX	0.00	21	0.00000	benzo(g,h,i)perylene
0.557	128.27477	PV	0.01	1	0.00016	* uncalibrated *
0.658	1.32309e5	VVS	0.01	2	0.16923	* uncalibrated *
1.769	7.70084e7	VVS	0.96	3	98.49577	* uncalibrated *
1.841	8.85329e5	VVS	0.01	4	1.13236	* uncalibrated *
1.929	1.25660e4	VVS	0.03	5	0.01607	* uncalibrated *
1.985	1.08716e4	VVS	0.04	6	0.01391	* uncalibrated *
2.046	8953.82031	VVS	0.03	7	0.01145	* uncalibrated *
2.085	7504.04395	VVS	0.03	8	0.00960	* uncalibrated *
2.120	6511.91162	VVS	0.02	9	0.00833	* uncalibrated *
2.153	6770.50879	VVS	0.03	10	0.00866	* uncalibrated *
2.198	8442.41797	VVS	0.03	11	0.01080	* uncalibrated *
2.245	8345.93652	VVS	0.03	12	0.01067	* uncalibrated *
2.293	8325.18848	VVS	0.03	13	0.01065	* uncalibrated *
2.351	7059.83154	VVS	0.03	14	0.00903	* uncalibrated *
2.403	8608.97168	VVS	0.05	15	0.01101	* uncalibrated *
2.456	6418.81006	VVS	0.03	16	0.00821	* uncalibrated *
2.490	4656.43555	VVS	0.02	17	0.00596	* uncalibrated *
2.530	6551.32373	VVS	0.04	18	0.00838	* uncalibrated *
2.580	8104.25391	VVS	0.04	19	0.01037	* uncalibrated *
2.636	4232.39941	VVS	0.03	20	0.00541	* uncalibrated *
2.678	2929.01123	VVS	0.03	21	0.00375	* uncalibrated *
2.727	2123.12183	VVS	0.03	22	0.00272	* uncalibrated *

237

```
==================================================================
Injection Date  : 9/23/2005 1:56:52 AM          Seq. Line :  38
Sample Name     : 146963 x1 ms R                 Location : Vial 38
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:13:45 AM by DCS
                  (modified after loading)
```

TPH




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.267	VV	0.0268	670.64075	0.00086	naphthalene
2	6.062	VV	0.0409	137.74988	0.00018	2-methylnaphthalene
3	6.587	VV	0.0442	1.13528e4	0.01452	2-FB(frac2)
4	7.018	VV	0.0709	80.74057	0.00010	acenaphthylene
5	7.263	VV	0.0500	8546.54980	0.01093	2-BrN(frac)
6	7.296	VV	0.0320	883.35425	0.00113	acenaphthene
7	7.899	VV	0.1349	83.12497	0.00011	fluorene
8	8.955		0.0000	0.00000	0.00000	phenanthrene
9	9.003	PB	0.0590	645.39752	0.00083	anthracene
10	9.511	PP	0.0390	2463.04736	0.00315	OTP
11	10.237	VB	0.0314	6.01266	7.690e-6	fluoranthene
12	10.547	VB	0.0520	680.35480	0.00087	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.364	VP	0.0342	20.90446	2.674e-5	COD
14	11.732	BB	0.0245	3.24701	4.153e-6	benzo(a)anthracene
15	12.032	VB	0.0778	498.99362	0.00064	chrysene
16	12.927	BP	0.0328	2.62389	3.356e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.414	BP	0.0453	4.03622	5.162e-6	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.60796e4 3.336e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.557	PV	0.0180	128.27477	0.00016	?
2	0.658	VV S	0.0122	1.32309e5	0.16923	?
3	1.769	VV S	0.9643	7.70084e7	98.49577	?
4	1.841	VV S	0.0189	8.85329e5	1.13236	?
5	1.929	VV S	0.0365	1.25660e4	0.01607	?
6	1.985	VV S	0.0417	1.08716e4	0.01391	?
7	2.046	VV S	0.0371	8953.82031	0.01145	?
8	2.085	VV S	0.0349	7504.04395	0.00960	?
9	2.120	VV S	0.0276	6511.91162	0.00833	?
10	2.153	VV S	0.0325	6770.50879	0.00866	?
11	2.198	VV S	0.0371	8442.41797	0.01080	?
12	2.245	VV S	0.0388	8345.93652	0.01067	?
13	2.293	VV S	0.0387	8325.18848	0.01065	?
14	2.351	VV S	0.0361	7059.83154	0.00903	?
15	2.403	VV S	0.0504	8608.97168	0.01101	?
16	2.456	VV S	0.0399	6418.81006	0.00821	?
17	2.490	VV S	0.0289	4656.43555	0.00596	?
18	2.530	VV S	0.0423	6551.32373	0.00838	?
19	2.580	VV S	0.0466	8104.25391	0.01037	?
20	2.636	VV S	0.0321	4232.39941	0.00541	?
21	2.678	VV S	0.0381	2929.01123	0.00375	?
22	2.727	VV S	0.0379	2123.12183	0.00272	?
23	2.756	VB S	0.0328	1548.97791	0.00198	?
24	2.968	BB	0.0275	2.12009	2.712e-6	?
25	3.043	BB	0.0183	4.53869	5.805e-6	?
26	3.231	BP	0.0183	1.54321	1.974e-6	?
27	3.402	PV	0.0178	5.93048	7.585e-6	?
28	3.436	VB	0.0246	8.68089	1.110e-5	?
29	3.522	BB	0.0421	5.94004	7.597e-6	?
30	3.675	PB	0.0198	4.73614	6.058e-6	?
31	3.785	PV	0.0228	4.90278	6.271e-6	?
32	3.848	VV	0.0286	10.18234	1.302e-5	?
33	3.923	VB	0.0205	5.88153	7.523e-6	?
34	4.016	BB	0.0237	9.99008	1.278e-5	?
35	4.117	BV	0.0219	3.39130	4.338e-6	?
36	4.148	VP	0.0194	2.34502	2.999e-6	?
37	4.240	BV	0.0232	6.88375	8.804e-6	?
38	4.306	VV	0.0371	9.83301	1.258e-5	?
39	4.349	VB	0.0269	3.97972	5.090e-6	?
40	4.476	PV	0.0243	5.07942	6.497e-6	?
41	4.520	VV	0.0205	47.37202	6.059e-5	?
42	4.564	VV	0.0244	8.57753	1.097e-5	?
43	4.669	VV	0.0415	25.39411	3.248e-5	?
44	4.755	VV	0.0266	30.38007	3.886e-5	?
45	4.839	VP	0.0200	2.71244	3.469e-6	?
46	4.927	PV	0.0251	21.72993	2.779e-5	?
47	4.975	VV	0.0251	14.38609	1.840e-5	?
48	5.029	VV	0.0318	56.07548	7.172e-5	?
49	5.100	VV	0.0421	16.51981	2.113e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	5.164	VV	0.0252	4.47642	5.725e-6	?
51	5.208	VV	0.0260	8.19955	1.049e-5	?
52	5.337	VV	0.0249	36.06964	4.613e-5	?
53	5.377	VV	0.0347	54.51960	6.973e-5	?
54	5.501	VV	0.0516	33.00718	4.222e-5	?
55	5.572	VV	0.0316	20.50203	2.622e-5	?
56	5.647	VV	0.0401	16.69786	2.136e-5	?
57	5.752	VP	0.0384	16.73781	2.141e-5	?
58	5.858	VV	0.0450	38.70917	4.951e-5	?
59	5.966	VV	0.0575	29.38109	3.758e-5	?
60	6.180	VV	0.0429	37.96017	4.855e-5	?
61	6.238	VV	0.0509	28.91174	3.698e-5	?
62	6.636	VV	0.0266	78.05446	9.983e-5	?
63	6.728	VV	0.0403	58.06774	7.427e-5	?
64	6.791	VV	0.0488	94.86872	0.00012	?
65	6.892	VV	0.0471	173.75954	0.00022	?
66	7.511	VV	0.0729	115.26146	0.00015	?
67	7.631	VV	0.0332	30.28172	3.873e-5	?
68	7.661	VV	0.0849	86.49721	0.00011	?
69	8.089	VB	0.0573	13.49229	1.726e-5	?
70	8.402	VV	0.0488	9.30502	1.190e-5	?
71	8.563	VV	0.1069	43.17889	5.523e-5	?
72	8.713	VP	0.0301	3.15578	4.036e-6	?
73	9.944	BB	0.0208	1.44775	1.852e-6	?
74	10.018	BV	0.0224	2.01721	2.580e-6	?
75	10.119	VV	0.0424	38.28381	4.897e-5	?
76	10.201	VV	0.0293	4.72569	6.044e-6	?
77	10.480	PV	0.0454	88.52921	0.00011	?
78	10.978	BV	0.0484	16.63612	2.128e-5	?
79	11.043	VV	0.0819	93.48023	0.00012	?
80	11.269	VV	0.0421	3.99057	5.104e-6	?
81	11.544	VP	0.0222	1.79468	2.295e-6	?
82	13.872	BP	0.0349	2.83296	3.623e-6	?
83	15.301	BB	0.0368	10.16724	1.300e-5	?
84	16.068	BB	0.0632	87.42072	0.00011	?

Uncalib. totals : 7.81584e7 99.9666

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==================================================================
Injection Date  : 9/23/2005 2:25:10 AM          Seq. Line :  39
Sample Name     : 146964 x1 msd K                Location : Vial 39
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 9/23/2005 10:16:50 AM by DCS
                  (modified after loading)
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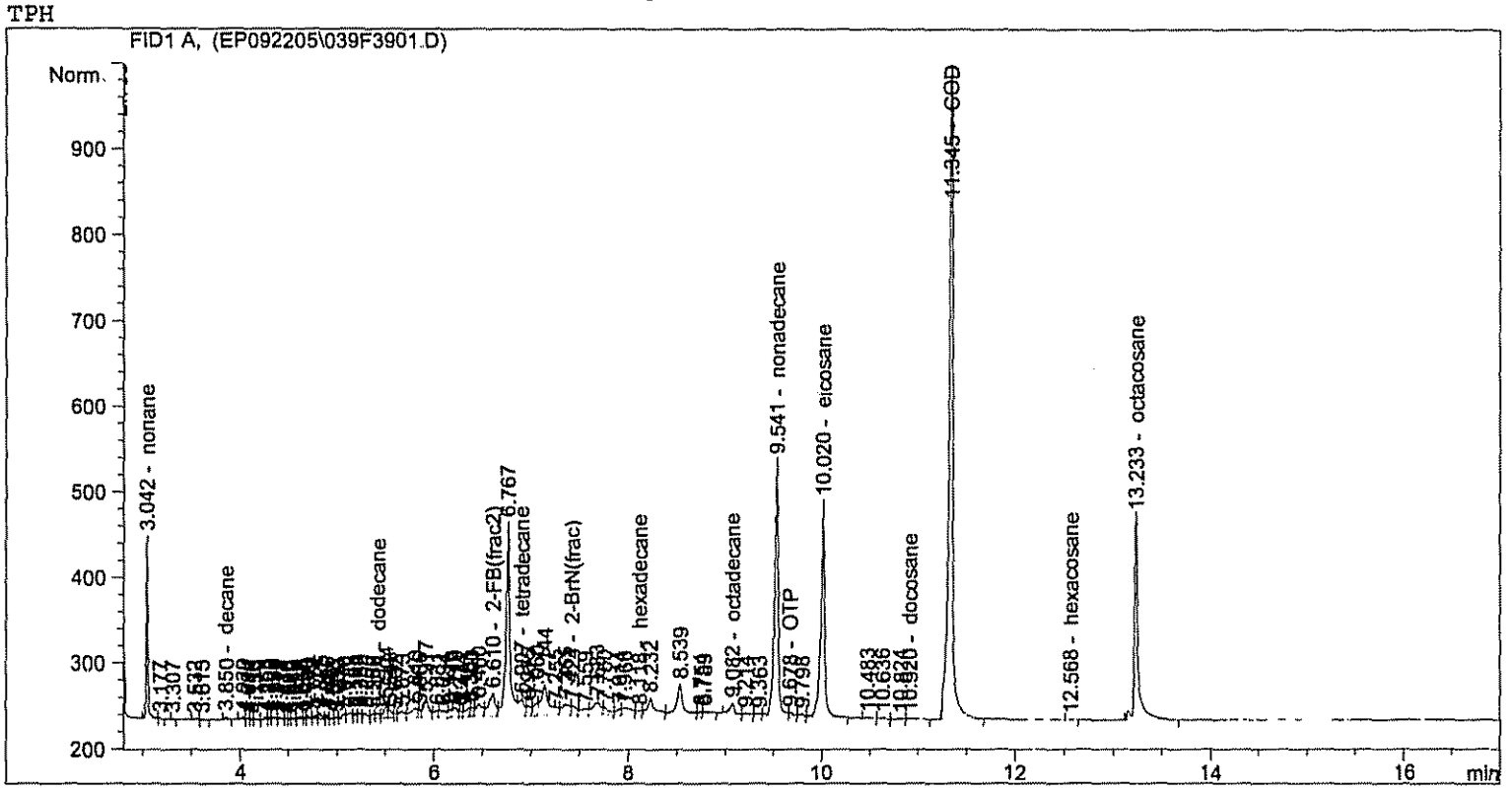
TPH

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==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.042	VV	0.0185	244.67612	0.00031	nonane
2	3.850	VV	0.0305	7.86716	1.008e-5	decane
3	5.414	VV	0.0414	17.29857	2.216e-5	dodecane
4	6.610	VV	0.0643	131.30553	0.00017	2-FB(frac2)
5	6.907	VV	0.0553	82.62602	0.00011	tetradecane
6	7.424	VV	0.0451	40.90795	5.239e-5	2-BrN(frac)
7	8.118	VV	0.0537	14.70764	1.884e-5	hexadecane
8	9.082	BV	0.0484	43.13501	5.525e-5	octadecane
9	9.541	VV	0.0376	783.59839	0.00100	nonadecane
10	9.678	VV	0.0435	11.72968	1.502e-5	OTP
11	10.020	VP	0.0390	690.42920	0.00088	eicosane
12	10.920	VP	0.0483	5.22542	6.693e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.345	BB	0.0407	2286.76392	0.00293	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.568	VP	0.0381	2.79025	3.574e-6	hexacosane
16	13.233	BB	0.0412	640.81122	0.00082	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5003.87206 6.409e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.549	PV	0.0240	166.16997	0.00021	?
2	0.582	VV	0.0192	44.08197	5.646e-5	?
3	0.672	VV S	0.0218	3.83726e5	0.49147	?
4	1.808	VV S	0.9615	7.67319e7	98.27657	?
5	1.837	VV S	0.0179	8.37599e5	1.07278	?
6	1.926	VV S	0.0762	1.99128e4	0.02550	?
7	2.005	VV S	0.0402	9927.38379	0.01271	?
8	2.066	VV S	0.0393	9396.21191	0.01203	?
9	2.122	VV S	0.0560	1.12237e4	0.01438	?
10	2.171	VV S	0.0425	9002.01660	0.01153	?
11	2.304	VV S	0.0992	1.65446e4	0.02119	?
12	2.342	VV S	0.0435	6757.10010	0.00865	?
13	2.411	VV S	0.0426	7608.40381	0.00974	?
14	2.453	VV S	0.0273	3909.41504	0.00501	?
15	2.487	VV S	0.0357	5263.65576	0.00674	?
16	2.536	VV S	0.0303	4511.32275	0.00578	?
17	2.580	VV S	0.0654	7988.41504	0.01023	?
18	2.658	VV S	0.0295	2261.43652	0.00290	?
19	2.696	VV S	0.0382	1861.49048	0.00238	?
20	2.758	VBAS	0.0211	569.60590	0.00073	?
21	3.177	VV	0.0352	3.12542	4.003e-6	?
22	3.307	VV	0.0235	1.91927	2.458e-6	?
23	3.532	VV	0.0372	3.69320	4.730e-6	?
24	3.613	VP	0.0310	3.22940	4.136e-6	?
25	4.030	VV	0.0297	6.95576	8.909e-6	?
26	4.084	VV	0.0310	4.62308	5.921e-6	?
27	4.118	VV	0.0304	3.85325	4.935e-6	?
28	4.155	VP	0.0286	3.57929	4.584e-6	?
29	4.263	VV	0.0298	6.17191	7.905e-6	?
30	4.308	VV	0.0190	3.80375	4.872e-6	?
31	4.354	VV	0.0334	7.27928	9.323e-6	?
32	4.414	VV	0.0410	6.35148	8.135e-6	?
33	4.475	VV	0.0218	2.44694	3.134e-6	?
34	4.509	VV	0.0216	2.14184	2.743e-6	?
35	4.545	VV	0.0343	3.89080	4.983e-6	?
36	4.618	VV	0.0340	7.91376	1.014e-5	?
37	4.659	VV	0.0209	2.95504	3.785e-6	?
38	4.700	VV	0.0285	8.59556	1.101e-5	?
39	4.774	VV	0.0302	8.56768	1.097e-5	?
40	4.825	VV	0.0319	16.77552	2.149e-5	?
41	4.896	VV	0.0239	7.52428	9.637e-6	?
42	4.943	VV	0.0349	3.43012	4.393e-6	?
43	5.000	VV	0.0281	4.04409	5.180e-6	?
44	5.070	VV	0.0370	14.40070	1.844e-5	?
45	5.133	VV	0.0427	19.56591	2.506e-5	?
46	5.185	VV	0.0324	11.77670	1.508e-5	?
47	5.230	VV	0.0297	11.98514	1.535e-5	?
48	5.290	VV	0.0415	18.03774	2.310e-5	?
49	5.366	VV	0.0322	11.96589	1.533e-5	?
50	5.504	VV	0.0362	41.40149	5.303e-5	?
51	5.543	VV	0.0362	24.54661	3.144e-5	?
52	5.602	VV	0.0261	8.66923	1.110e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.673	VV	0.0543	31.73538	4.065e-5	?
54	5.810	VV	0.0726	60.08475	7.696e-5	?
55	5.856	VV	0.0238	13.64188	1.747e-5	?
56	5.917	VV	0.0520	82.60219	0.00011	?
57	6.031	VV	0.0422	22.85333	2.927e-5	?
58	6.094	VV	0.0664	40.91639	5.240e-5	?
59	6.179	VV	0.0343	23.15004	2.965e-5	?
60	6.219	VV	0.0520	39.86779	5.106e-5	?
61	6.274	VV	0.0308	13.83949	1.773e-5	?
62	6.361	VV	0.0461	35.24116	4.514e-5	?
63	6.390	VV	0.0343	24.36519	3.121e-5	?
64	6.460	VV	0.0639	69.30145	8.876e-5	?
65	6.767	VV	0.0437	691.37756	0.00089	?
66	6.975	VV	0.0495	40.92769	5.242e-5	?
67	7.060	VV	0.0451	49.11929	6.291e-5	?
68	7.144	VV	0.0713	188.54564	0.00024	?
69	7.255	VV	0.0334	25.66322	3.287e-5	?
70	7.355	VV	0.0759	81.15811	0.00010	?
71	7.559	VV	0.0735	42.65217	5.463e-5	?
72	7.683	VV	0.0747	86.85496	0.00011	?
73	7.760	VV	0.0576	35.20668	4.509e-5	?
74	7.914	VV	0.0502	22.92445	2.936e-5	?
75	7.966	VV	0.0899	50.59150	6.480e-5	?
76	8.232	VV	0.0652	93.02331	0.00012	?
77	8.539	VV	0.0573	138.36884	0.00018	?
78	8.754	VV	0.0324	5.53728	7.092e-6	?
79	8.789	VB	0.0508	9.24972	1.185e-5	?
80	9.214	VP	0.0450	5.33108	6.828e-6	?
81	9.363	VV	0.0352	3.44205	4.408e-6	?
82	9.798	VV	0.0442	8.65549	1.109e-5	?
83	10.483	VV	0.0480	4.26182	5.458e-6	?
84	10.636	VP	0.0512	3.45654	4.427e-6	?
85	10.824	VV	0.0581	5.10537	6.539e-6	?

Uncalib. totals : 7.80725e7 99.9936

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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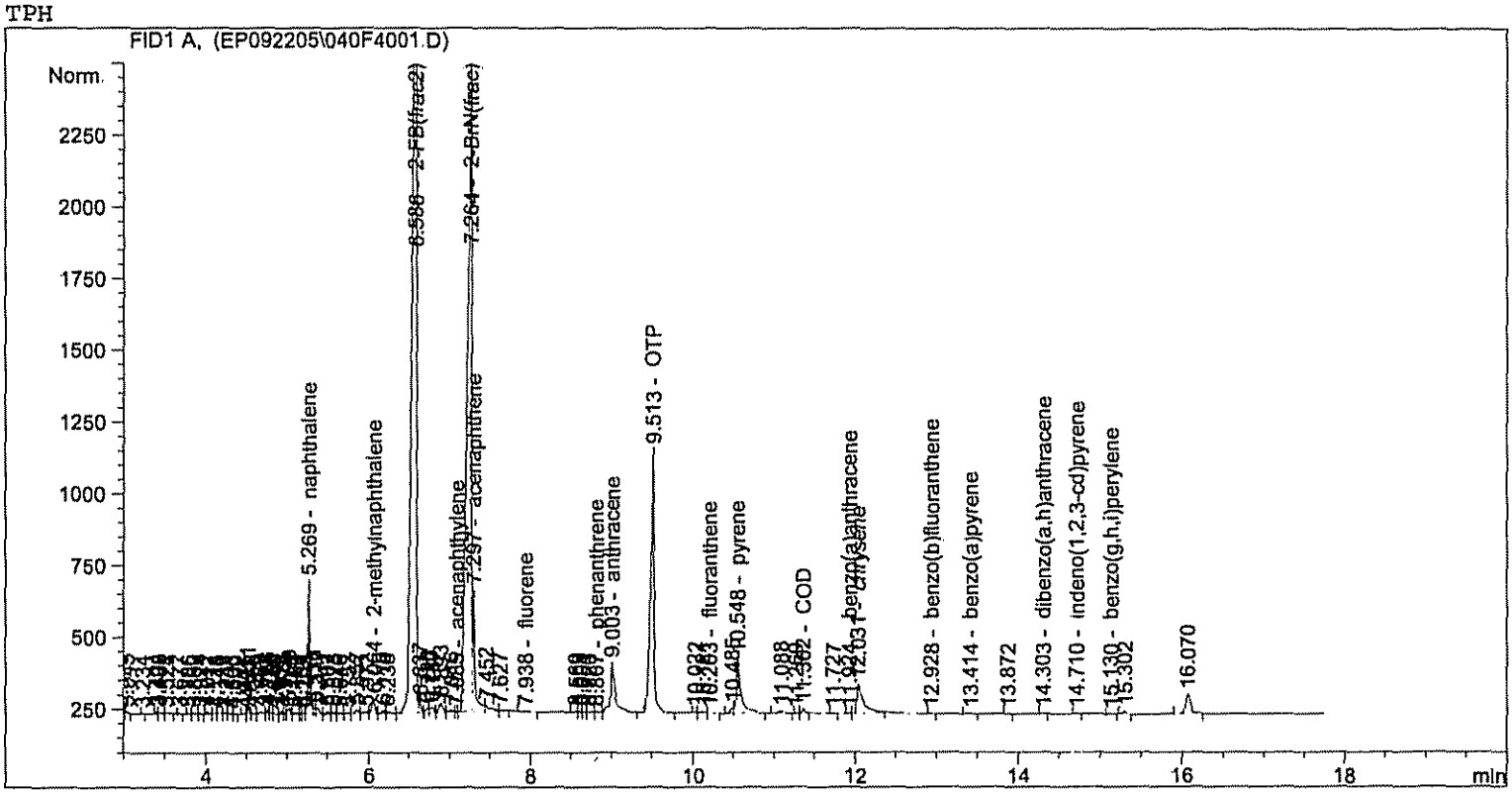
*** End of Report ***

```
==================================================================
Injection Date  : 9/23/2005 2:52:11 AM          Seq. Line :  40
Sample Name     : 146964 x1 msd R                Location : Vial 40
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:13:45 AM by DCS
                  (modified after loading)
```

TPH




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.269	VV	0.0262	798.26404	0.00101	naphthalene
2	6.064	VV	0.0388	136.90945	0.00017	2-methylnaphthalene
3	6.586	VV	0.0477	1.12483e4	0.01430	2-FB(frac2)
4	7.085	VV	0.0209	1.62186	2.062e-6	acenaphthylene
5	7.264	VV	0.0465	8455.79883	0.01075	2-BrN(frac)
6	7.297	VV	0.0268	834.55469	0.00106	acenaphthene
7	7.938	PB	0.0755	12.43882	1.582e-5	fluorene
8	8.807	VP	0.0442	4.55443	5.791e-6	phenanthrene
9	9.003	VB	0.0577	723.12506	0.00092	anthracene
10	9.513	BB	0.0393	2688.61621	0.00342	OTP
11	10.203	VB	0.0623	6.32680	8.044e-6	fluoranthene
12	10.548	VP	0.0513	730.10553	0.00093	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.362	VB	0.0302	32.14897	4.088e-5	COD
14	11.924	VV	0.0311	2.24801	2.858e-6	benzo(a)anthracene
15	12.031	VB	0.0766	558.21954	0.00071	chrysene
16	12.928	BP	0.0340	3.63595	4.623e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.414	BP	0.0464	8.12972	1.034e-5	benzo(a)pyrene
19	14.303	BP	0.0326	4.44346	5.650e-6	dibenzo(a,h)anthracene
20	14.710	BB	0.0347	4.55266	5.789e-6	indeno(1,2,3-cd)pyrene
21	15.130	PB	0.0431	3.89986	4.959e-6	benzo(g,h,i)perylene

Totals : 2.62579e4 3.339e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.556	PV	0.0225	145.85019	0.00019	?
2	0.659	VV S	0.0123	1.37618e5	0.17498	?
3	1.805	VV S	0.9656	7.74317e7	98.45127	?
4	1.848	VV S	0.0191	9.15625e5	1.16418	?
5	1.934	VV S	0.0502	1.47934e4	0.01881	?
6	1.981	VV S	0.0436	1.15230e4	0.01465	?
7	2.043	VV S	0.0476	1.25006e4	0.01589	?
8	2.096	VV S	0.0361	9295.64355	0.01182	?
9	2.149	VV S	0.0499	1.05756e4	0.01345	?
10	2.195	VV S	0.0265	5973.64844	0.00760	?
11	2.244	VV S	0.0594	1.09996e4	0.01399	?
12	2.294	VV S	0.0317	6600.39258	0.00839	?
13	2.335	VV S	0.0348	6678.93555	0.00849	?
14	2.376	VV S	0.0457	8386.91211	0.01066	?
15	2.427	VV S	0.0314	5195.90088	0.00661	?
16	2.473	VV S	0.0660	1.09313e4	0.01390	?
17	2.571	VV S	0.0591	9142.35645	0.01162	?
18	2.617	VV S	0.0292	5041.96387	0.00641	?
19	2.652	VV S	0.0379	3673.02783	0.00467	?
20	2.688	VV S	0.0232	1890.41370	0.00240	?
21	2.719	VV S	0.0266	1606.31860	0.00204	?
22	2.758	VB S	0.0374	2116.25659	0.00269	?
23	2.970	BB	0.0211	1.99343	2.535e-6	?
24	3.045	BB	0.0181	7.23152	9.195e-6	?
25	3.234	PP	0.0163	1.74726	2.222e-6	?
26	3.404	PV	0.0172	7.76913	9.878e-6	?
27	3.438	VV	0.0261	10.12532	1.287e-5	?
28	3.524	VB	0.0370	6.27776	7.982e-6	?
29	3.677	PB	0.0186	5.62960	7.158e-6	?
30	3.786	PV	0.0220	5.43427	6.909e-6	?
31	3.850	VV	0.0278	9.66503	1.229e-5	?
32	3.924	VB	0.0216	6.48076	8.240e-6	?
33	4.017	BB	0.0219	10.95936	1.393e-5	?
34	4.118	BV	0.0222	3.71608	4.725e-6	?
35	4.148	VP	0.0199	2.60142	3.308e-6	?
36	4.241	BV	0.0244	6.90212	8.776e-6	?
37	4.308	VV	0.0339	9.16847	1.166e-5	?
38	4.350	VB	0.0268	4.10747	5.222e-6	?
39	4.476	PV	0.0258	5.73858	7.296e-6	?
40	4.521	VV	0.0204	46.63594	5.930e-5	?
41	4.565	VB	0.0239	8.16841	1.039e-5	?
42	4.669	BV	0.0384	21.02080	2.673e-5	?
43	4.756	VV	0.0211	19.17776	2.438e-5	?
44	4.785	VV	0.0204	7.74292	9.845e-6	?
45	4.840	VP	0.0212	2.15132	2.735e-6	?
46	4.928	BV	0.0285	19.66500	2.500e-5	?
47	4.973	VV	0.0233	10.63491	1.352e-5	?
48	5.029	VV	0.0315	51.96420	6.607e-5	?
49	5.100	VV	0.0385	15.67584	1.993e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	5.164	VV	0.0229	2.86144	3.638e-6	?
51	5.209	VV	0.0240	5.21193	6.627e-6	?
52	5.336	VV	0.0263	36.54507	4.647e-5	?
53	5.377	VV	0.0362	48.89701	6.217e-5	?
54	5.502	VV	0.0469	29.92258	3.805e-5	?
55	5.573	VV	0.0322	17.39830	2.212e-5	?
56	5.646	VV	0.0411	13.22290	1.681e-5	?
57	5.752	VP	0.0361	11.97829	1.523e-5	?
58	5.857	VV	0.0415	34.89805	4.437e-5	?
59	5.972	VV	0.0524	21.13352	2.687e-5	?
60	6.179	VV	0.0410	33.45226	4.253e-5	?
61	6.236	VP	0.0489	20.43221	2.598e-5	?
62	6.637	VV	0.0260	74.32240	9.450e-5	?
63	6.728	VV	0.0390	43.04256	5.473e-5	?
64	6.787	VV	0.0517	69.49500	8.836e-5	?
65	6.893	VV	0.0466	113.46122	0.00014	?
66	7.016	VV	0.0477	28.55649	3.631e-5	?
67	7.452	VV	0.0586	103.23144	0.00013	?
68	7.627	VB	0.0594	17.92143	2.279e-5	?
69	8.560	BV	0.0426	14.02032	1.783e-5	?
70	8.608	VV	0.0335	10.00540	1.272e-5	?
71	8.651	VV	0.0303	4.30576	5.475e-6	?
72	8.720	VV	0.0461	5.26471	6.694e-6	?
73	10.022	BV	0.0251	5.56433	7.075e-6	?
74	10.121	VV	0.0437	16.04090	2.040e-5	?
75	10.485	BV	0.0398	51.44678	6.541e-5	?
76	11.088	BP	0.0680	40.13452	5.103e-5	?
77	11.269	BV	0.0321	2.88529	3.669e-6	?
78	11.727	BP	0.0269	4.70120	5.977e-6	?
79	13.872	BP	0.0340	4.42516	5.626e-6	?
80	15.302	BP	0.0442	25.51627	3.244e-5	?
81	16.070	BB	0.0583	284.22842	0.00036	?

Uncalib. totals : 7.86235e7 99.9666

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

EPH Prep, Standard, Run Logs

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep080105

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	8/1/05 8:47					DCS	
002F0201.D	R 20 ccal	8/1/05 9:14					DCS	
003F0101.D	pb3329	8/1/05 16:23					DCS	
004F0201.D	pb3335	8/1/05 16:51					DCS	
005F0301.D	G161-2083-1O x1 T	8/1/05 17:17	cid= 146954	✓			DCS	
006F0401.D	G161-2085-1N x1 T	8/1/05 17:45	cid= 146955	✓			DCS	
007F0501.D	G161-2086-1J x1 T	8/1/05 18:12	cid= 146956	✓			DCS	
008F0601.D	G122-2627-1Q x1 T	8/1/05 18:39	cid= 146960				DCS	C ✓
009F0701.D	G311-130-1O x1 T	8/1/05 19:07	cid= 146961	✓			DCS	✓
010F0801.D	G111-769-1I x1 T	8/1/05 19:34	cid= 146962				DCS	C ✓
011F0901.D	G128-1573-3G x1 T	8/1/05 20:02	cid= 147463				DCS	C ✓
012F1001.D	G122-2628-2I x1 T	8/1/05 20:29	cid= 147460	RR			DCS	
013F1101.D	G122-2628-8I x1 T	8/1/05 20:56	cid= 147461				DCS	C ✓
014F1201.D	G122-2628-9I x1 T	8/1/05 21:23	cid= 147462				DCS	C ✓
015F1301.D	G349-109-2E x1 T	8/1/05 21:50	cid= 146965				DCS	C ✓
016F1401.D	G349-109-4E x1 T	8/1/05 22:17	cid= 147464	✓			DCS	
017F1501.D	G349-109-8D x1 T	8/1/05 22:44	cid= 147465	✓			DCS	
018F1601.D	G349-109-10E x1 T	8/1/05 23:12	cid= 147466	✓			DCS	
019F1701.D	G349-109-11E x1 T	8/1/05 23:39	cid= 147467	✓			DCS	
020F1801.D	G349-109-12E x1 T	8/2/05 0:05	cid= 147468				DCS	C ✓
021F1901.D	G349-109-13E x1 T	8/2/05 0:32	cid= 147469				DCS	C ✓
022F2001.D	G349-109-13F x1 dup T	8/2/05 1:00	cid= 147470				DCS	C ✓

Analyst: _____ Page Number: _____

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7M	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/06	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Interval Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH2Cl2		6/29/06	6/29/05	DS
D	ECD03-R6O	8/25/05	EDB Std	17.5mL	50mL	2000ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400mL	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DS
F	ECD03-W12Q	↓	Frac	400mL	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~[illegible]~~		EPH Surr	~~2mL~~ 1mL	↓	400ug/mL						
H	SV03-R7T	7/21/06	1254 Std	200mL	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10mL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200mL	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10mL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400mL	10mL	200ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500mL	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50mL	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	ECD03-R6U	12/26/06	Herb ICAL Std	50mL	25mL	200ug/mL	400 ug/L	Hexane		12/25	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	200ug/mL	400 ug/L	↓	↓	↓	↓	↓
Q	ECD03-R6U	1/19/06	↓	↓	↓	20000ug/mL	40000 ug/L	↓	↓	↓	↓	↓
R	ECD03-R6R	12/29/05	↓	↓	↓	200ug/mL	400 ug/L	↓	↓	↓	↓	↓
S	ECD03-R7D	4/21/06	Herb CCAL Std	50mL	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7V	8/4/06	8082/8081 IS	500mL	10mL	200ug/mL	10ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20mL	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200mL	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	–	—	8081 Surr	10mL	↓	2000ug/mL	400 ug/L	↓		↓	↓	↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

Prep Report for Batch 3329 (EPH/3520/WATER) on 2005-07-29

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot	Analyst
G111-769-1I (146962)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G111-769-1J (146963)	ms	237	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co232	nio
G111-769-1K (146964)	msd	237	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co232	nio
G122-2627-1Q (146960)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2083-1O (146954)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2085-1N (146955)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2086-1J (146956)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2088-2O (146957)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2088-3M (146958)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G161-2088-4M (146959)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G311-130-1O (146961)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
G349-109-2E (146965)		500			ephsrsvo3w17m	.5	5	co493	co232	nio
lcs3329	lcs	500	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co232	nio
pb3329	pb	500			ephsrsvo3w17m	.5	5	co493	co232	nio

VPH Sample Raw Data

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\030F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2083-1d x1
un Time Bar Code:
cquired on : 25 Jul 05 10:41 PM
eport Created on: 05 Aug 05 04:54 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

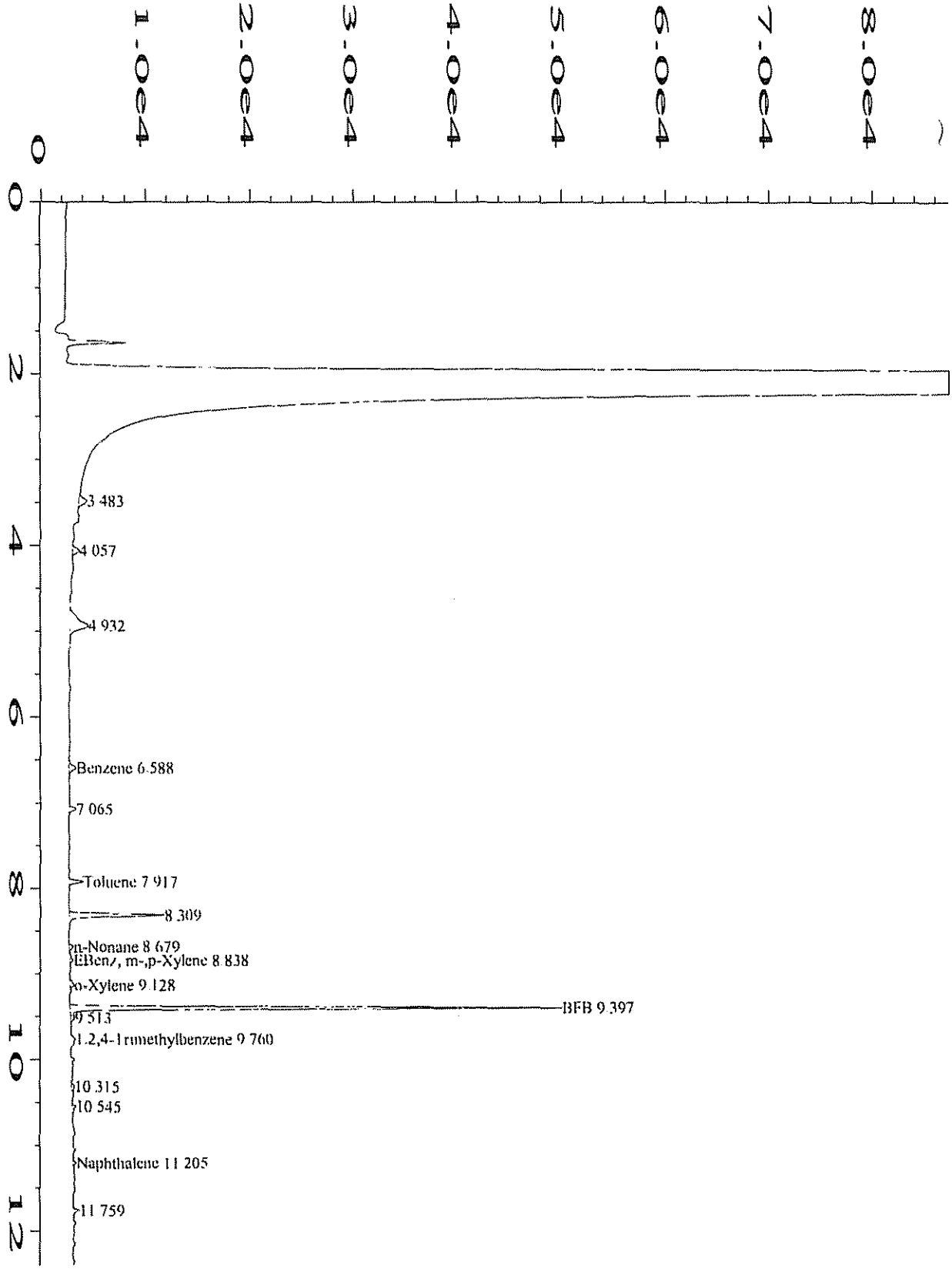
DCS 8/5

ig. 1 in C:\HPCHEM\1\DATA\vp072505\030F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.588	3222	BB	0.066	1	0.408	Benzene
7.917	3280	BB	0.038	1	0.348	Toluene
8.679	1301	BV	0.043	1	0.327	n-Nonane
8.838	1230	VV	0.048	1	0.120	EBenz, m-,p-Xylene
9.128	1696	PV	0.058	1	0.168	o-Xylene
9.397	86364	BV	0.029	1	332.672	BFB
9.760	1649	BV	0.051	1	0.175	1,2,4-Trimethylbenzene
11.205	1103	VV	0.044	1	0.260	Naphthalene
3.483	3937	VV	0.079		39.368	* uncalibrated *
4.057	2746	VV	0.064		27.463	* uncalibrated *
4.932	14882	BB	0.118		148.824	* uncalibrated *
7.065	2101	BB	0.048		21.005	* uncalibrated *
8.309	21313	BV	0.037		213.134	* uncalibrated *
9.513	1393	VB	0.050		13.928	* uncalibrated *
10.315	1079	VV	0.056		10.793	* uncalibrated *
10.545	1424	VB	0.060		14.237	* uncalibrated *
11.759	2010	VV	0.048		20.100	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp072505\030F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 30
Sample Name	: g161-2083-1d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 10:41 PM	Instrument Method:	GAS1.MTH
Report Created on:	05 Aug 05 04:54 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

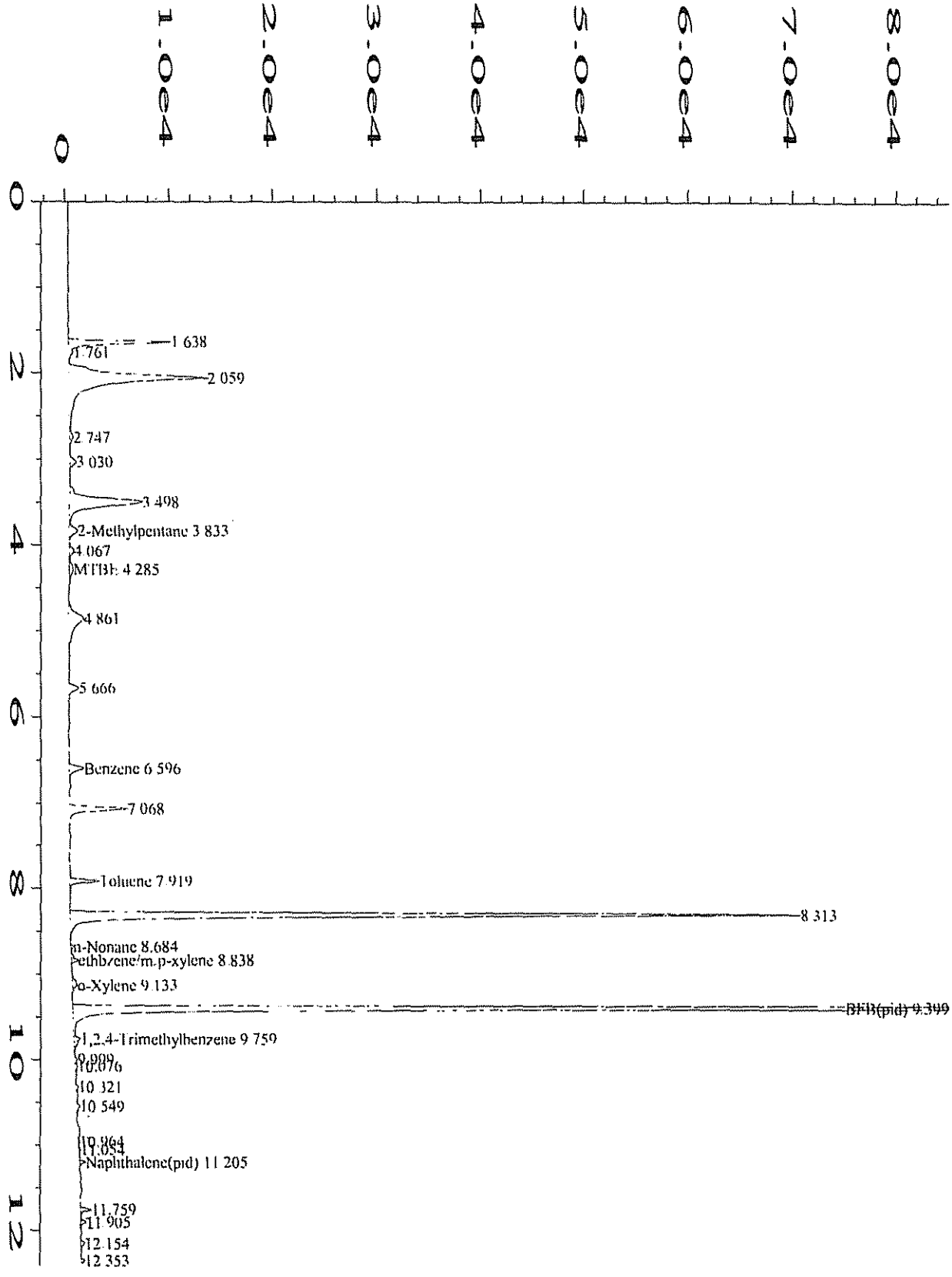
ata File Name : C:\HPCHEM\1\DATA\vp072505\030R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2083-1d x1
un Time Bar Code:
cquired on : 25 Jul 05 10:41 PM
eport Created on: 05 Aug 05 04:54 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\030R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.833	4378	VV	0.083	1	0.464	2-Methylpentane
4.285	3235	VB	0.118	1	0.107	MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.596	5820	BV	0.064	1	0.0731	Benzene
7.919	8045	PB	0.043	1	0.197	Toluene
8.684	631	PV	0.046	1	0.0929	n-Nonane
8.838	2050	VV	0.045	1	0.0606	ethbzene/m,p-xylene
9.133	2449	VV	0.076	1	0.0632	o-Xylene
9.399	410009	BV	0.033	1	27.596	BFB(pid)
9.759	3156	VV	0.068	1	0.103	1,2,4-Trimethylbenzene
11.205	1114	VV	0.031	1	0.0637	Naphthalene(pid)
1.638	28045	VV	0.042		280.446	* uncalibrated *
1.761	1997	VV	0.060		19.971	* uncalibrated *
2.059	97856	VV	0.094		978.565	* uncalibrated *
2.747	2326	VB	0.103		23.264	* uncalibrated *
3.030	2836	BV	0.072		28.361	* uncalibrated *
3.498	47569	BV	0.103		475.690	* uncalibrated *
4.067	2240	PV	0.085		22.405	* uncalibrated *
4.861	15812	BB	0.159		158.119	* uncalibrated *
5.666	4095	BV	0.068		40.952	* uncalibrated *
7.068	17580	BB	0.049		175.797	* uncalibrated *
8.313	201099	BV	0.044		2010.994	* uncalibrated *
9.999	1098	VV	0.063		10.984	* uncalibrated *
10.076	820	VV	0.055		8.199	* uncalibrated *
10.321	824	VV	0.049		8.241	* uncalibrated *
10.549	1408	VB	0.071		14.080	* uncalibrated *
10.964	587	VV	0.066		5.872	* uncalibrated *
11.054	451	VV	0.047		4.512	* uncalibrated *
11.759	2448	BV	0.035		24.484	* uncalibrated *
11.905	1395	VV	0.040		13.950	* uncalibrated *
12.154	1411	PV	0.054		14.107	* uncalibrated *
12.353	597	PBA	0.032		5.971	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp072505\030R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 30
Sample Name	: g161-2083-1d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 10:41 PM	Instrument Method	: GAS1.MTH
Report Created on	: 05 Aug 05 04:54 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH Calibration Raw Data

External Standard Report

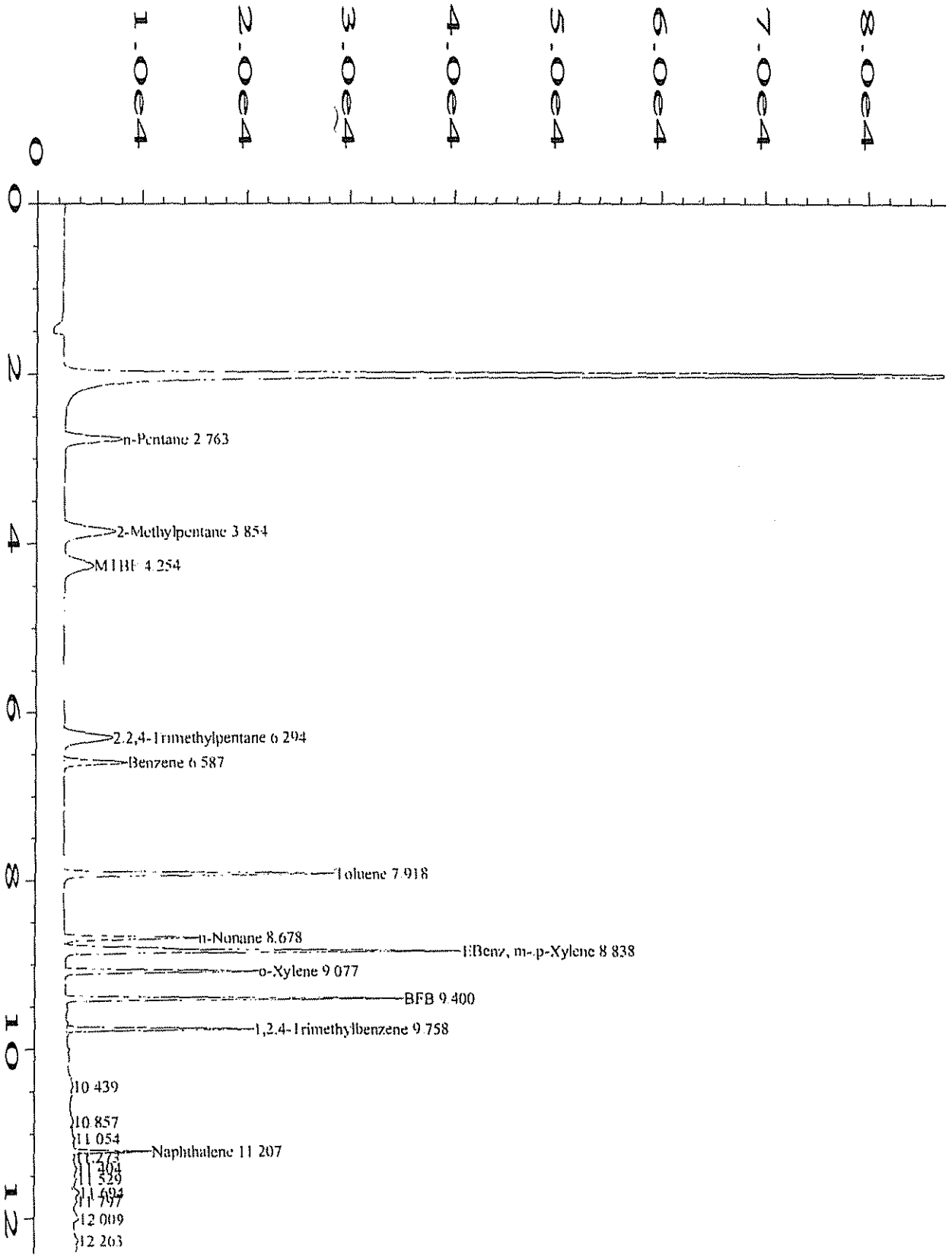
ta File Name : C:\HPCHEM\1\DATA\vp071405\003F0101.D
erator : DCS
strument : FID/PID
mple Name : V 10
n Time Bar Code:
quired on : 14 Jul 05 09:14 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\003F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.763	29353	BB	0.083	1	29.278	n-Pentane
3.854	37166	BV	0.116	1	6.601	2-Methylpentane
4.254	24008	VB	0.134	1	56.277	MTBE
6.294	30739	BV	0.103	1	5.904	2,2,4-Trimethylpentane
6.587	21736	VB	0.056	1	2.755	Benzene
7.918	64387	BB	0.039	1	6.835	Toluene
8.678	31081	BV	0.038	1	7.799	n-Nonane
8.838	98512	VV	0.038	1	9.630	EBenz, m-,p-Xylene
9.077	39065	VB	0.033	1	3.879	o-Xylene
9.400	58014	BV	0.029	1	223.467	BFB
9.758	35372	VB	0.031	1	3.765	1,2,4-Trimethylbenzene
11.207	14181	VV	0.041	1	3.346	Naphthalene
10.439	2255	BV	0.105		22.555	* uncalibrated *
10.857	1787	BV	0.113		17.873	* uncalibrated *
11.054	2590	VV	0.108		25.898	* uncalibrated *
11.273	1043	VV	0.053		10.425	* uncalibrated *
11.404	3422	VV	0.103		34.219	* uncalibrated *
11.529	1764	VV	0.063		17.642	* uncalibrated *
11.694	3765	VV	0.084		37.645	* uncalibrated *
11.797	1394	VV	0.056		13.939	* uncalibrated *
12.009	2478	VV	0.066		24.778	* uncalibrated *
12.263	1253	PV	0.064		12.529	* uncalibrated *

alibration table contains at least one peak with amt = 0



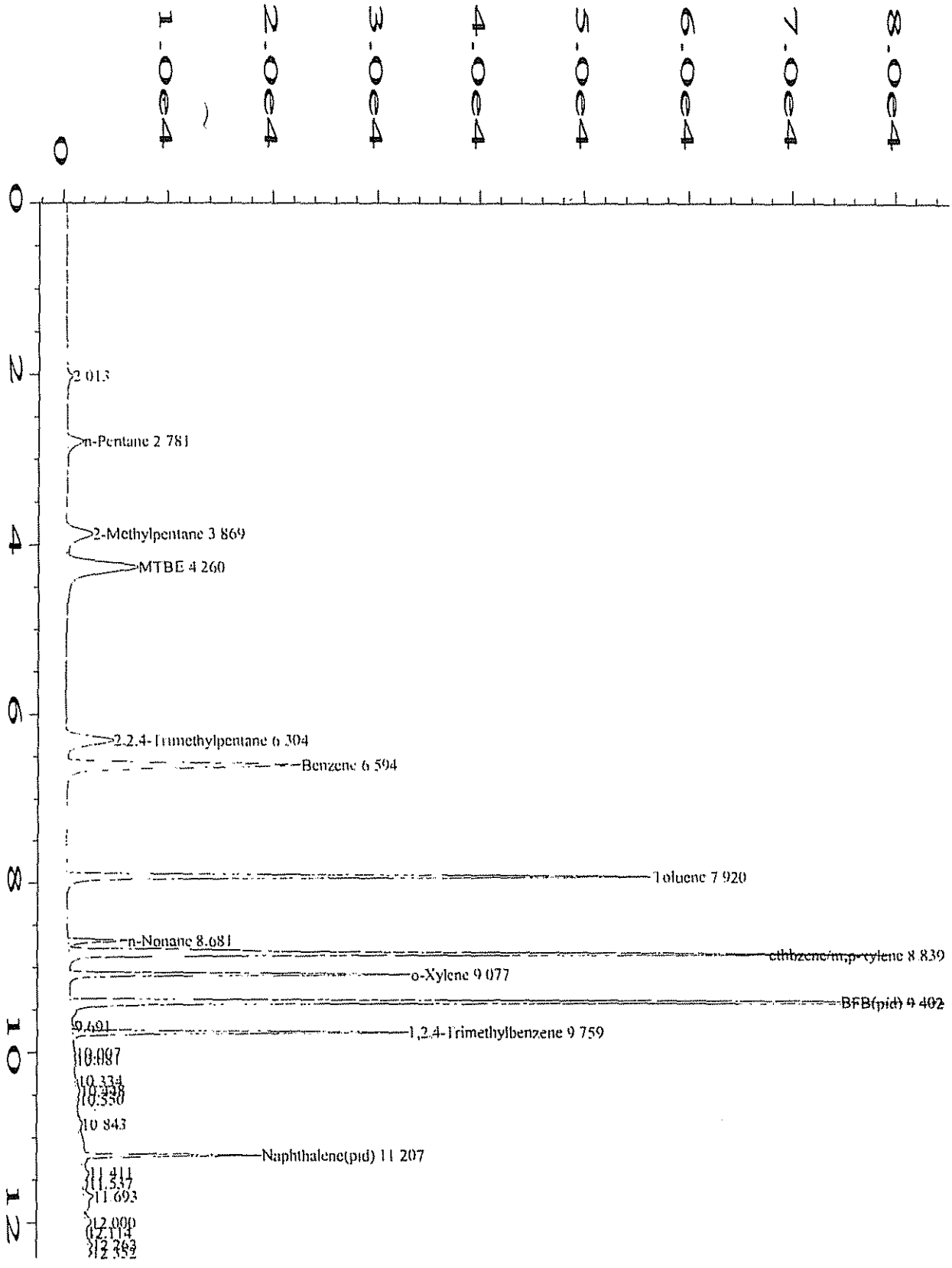
Data File Name	: C:\HPCHEM\1\DATA\vp071405\003F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 14 Jul 05 09:14 AM	Instrument Method	: GAS1.MTH
Report Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 3
mple Name	: V 10	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
port Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp071405\003R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.781	11221	BB	0.105	1	1.789	n-Pentane
3.869	22217	BV	0.135	1	2.353	2-Methylpentane
4.260	67014	VB	0.148	1	2.223	MTBE
6.304	33150	PV	0.114	1	2.179	2,2,4-Trimethylpentane
6.594	97400	VV	0.067	1	1.224	Benzene
7.920	145561	BB	0.041	1	3.567	Toluene
8.681	13863	BV	0.038	1	2.042	n-Nonane
8.839	207632	VV	0.044	1	6.138	ethbzene/m,p-xylene
9.077	71464	VV	0.035	1	1.845	o-Xylene
9.402	273788	BV	0.032	1	18.427	BFB(pid)
9.759	65359	VV	0.065	1	2.129	1,2,4-Trimethylbenzene
11.207	38413	VV	0.047	1	2.195	Naphthalene(pid)
2.013	3435	BB	0.082		34.352	* uncalibrated *
9.691	444	VV	0.032		4.435	* uncalibrated *
10.007	986	VV	0.081		9.860	* uncalibrated *
10.081	560	VV	0.068		5.601	* uncalibrated *
10.334	1050	BV	0.058		10.503	* uncalibrated *
10.448	2356	VV	0.078		23.563	* uncalibrated *
10.550	1626	VV	0.073		16.263	* uncalibrated *
10.843	2978	VV	0.120		29.781	* uncalibrated *
11.411	5437	VV	0.116		54.370	* uncalibrated *
11.537	2772	VV	0.076		27.724	* uncalibrated *
11.693	7717	VV	0.114		77.175	* uncalibrated *
12.000	3835	VV	0.094		38.352	* uncalibrated *
12.114	157	VV	0.037		1.571	* uncalibrated *
12.263	1880	PV	0.064		18.801	* uncalibrated *
12.352	512	VBA	0.037		5.121	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

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External Standard Report

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ta File Name : C:\HPCHEM\1\DATA\vp071405\004F0101.D
erator : DCS
strument : FID/PID
mple Name : V 250
n Time Bar Code:
quired on : 14 Jul 05 09:40 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\004F0101.D

:t Time	Area	Type	Width	Ref#	ug/L	Name
2.769	838621	BB	0.089	1	1660.550	n-Pentane
3.857	1066067	BV	0.120	1	1319.603	2-Methylpentane
4.252	758973	VB	0.136	1	17730.02	MTBE
6.296	873405	VV	0.104	1	1688.183	2,2,4-Trimethylpentane
6.588	664162	VB	0.057	1	559.504	Benzene
7.919	1883722	BV	0.039	1	1845.051	Toluene
8.679	570597	BV	0.037	1	739.268	n-Nonane
8.839	2915194	VV	0.042	1	2980.747	EBenz, m-,p-Xylene
9.077	1160395	VV	0.033	1	1200.910	o-Xylene
9.400	60522	VV	0.047	1	233.128	BFB
9.758	1004871	VV	0.031	1	1126.930	1,2,4-Trimethylbenzene
11.206	345847	VV	0.048	1	-1939.058	Naphthalene
9.550	3820	VV	0.037		38.201	* uncalibrated *
9.689	7049	PV	0.031		70.490	* uncalibrated *
10.007	2929	VV	0.046		29.285	* uncalibrated *
10.331	1325	PV	0.061		13.252	* uncalibrated *
10.394	1460	VV	0.068		14.603	* uncalibrated *
11.054	1474	VV	0.063		14.739	* uncalibrated *
11.300	1054	VV	0.044		10.538	* uncalibrated *
11.403	2641	VV	0.081		26.411	* uncalibrated *
11.529	1510	VV	0.059		15.104	* uncalibrated *
11.679	2410	VV	0.076		24.101	* uncalibrated *
12.009	1748	PV	0.067		17.479	* uncalibrated *
12.253	1115	PV	0.066		11.146	* uncalibrated *

alibration table contains at least one peak with amt = 0

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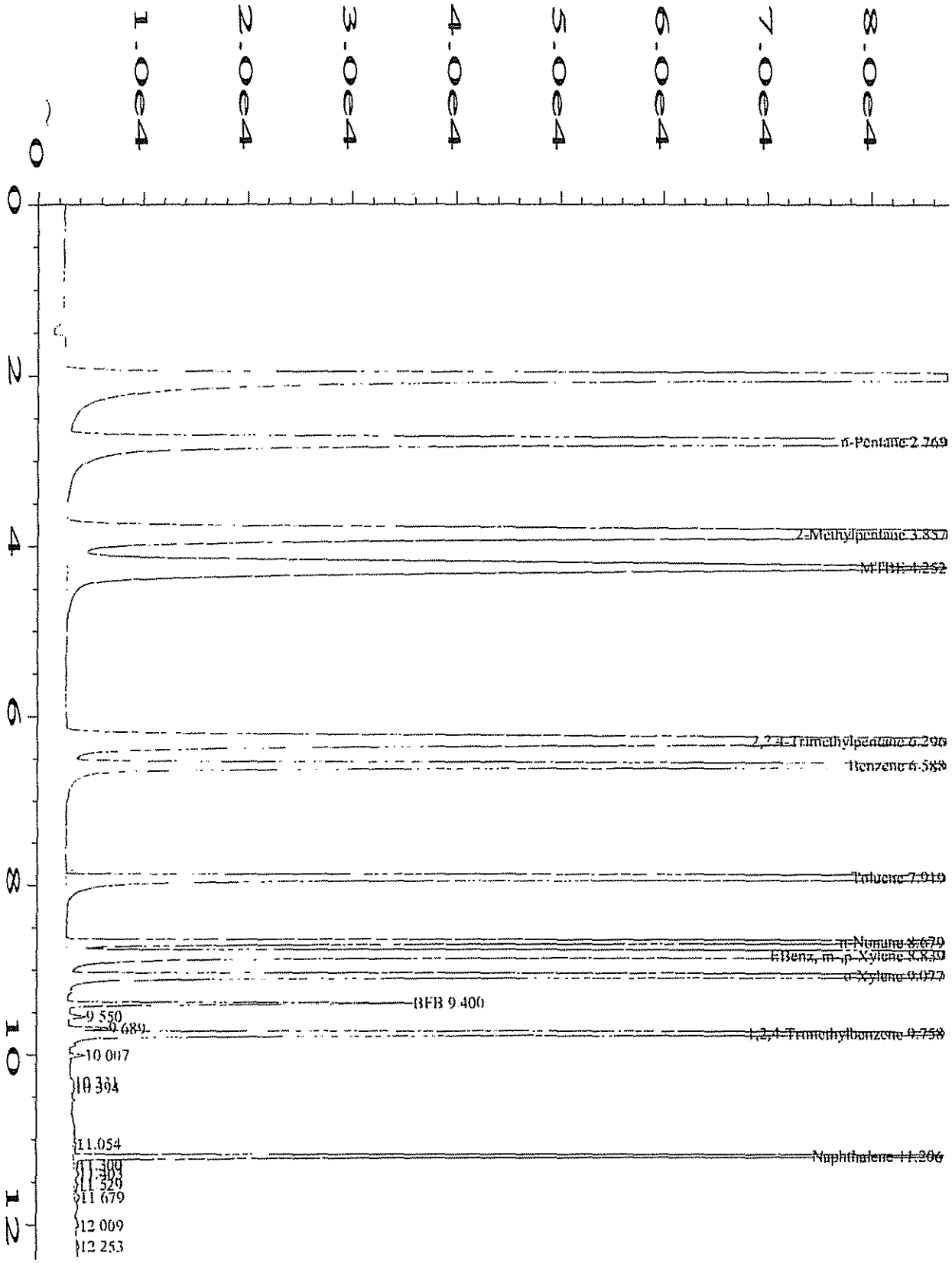


ata File Name	: C:\HPCHEM\1\DATA\vp071405\004F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: V 250	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:40 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

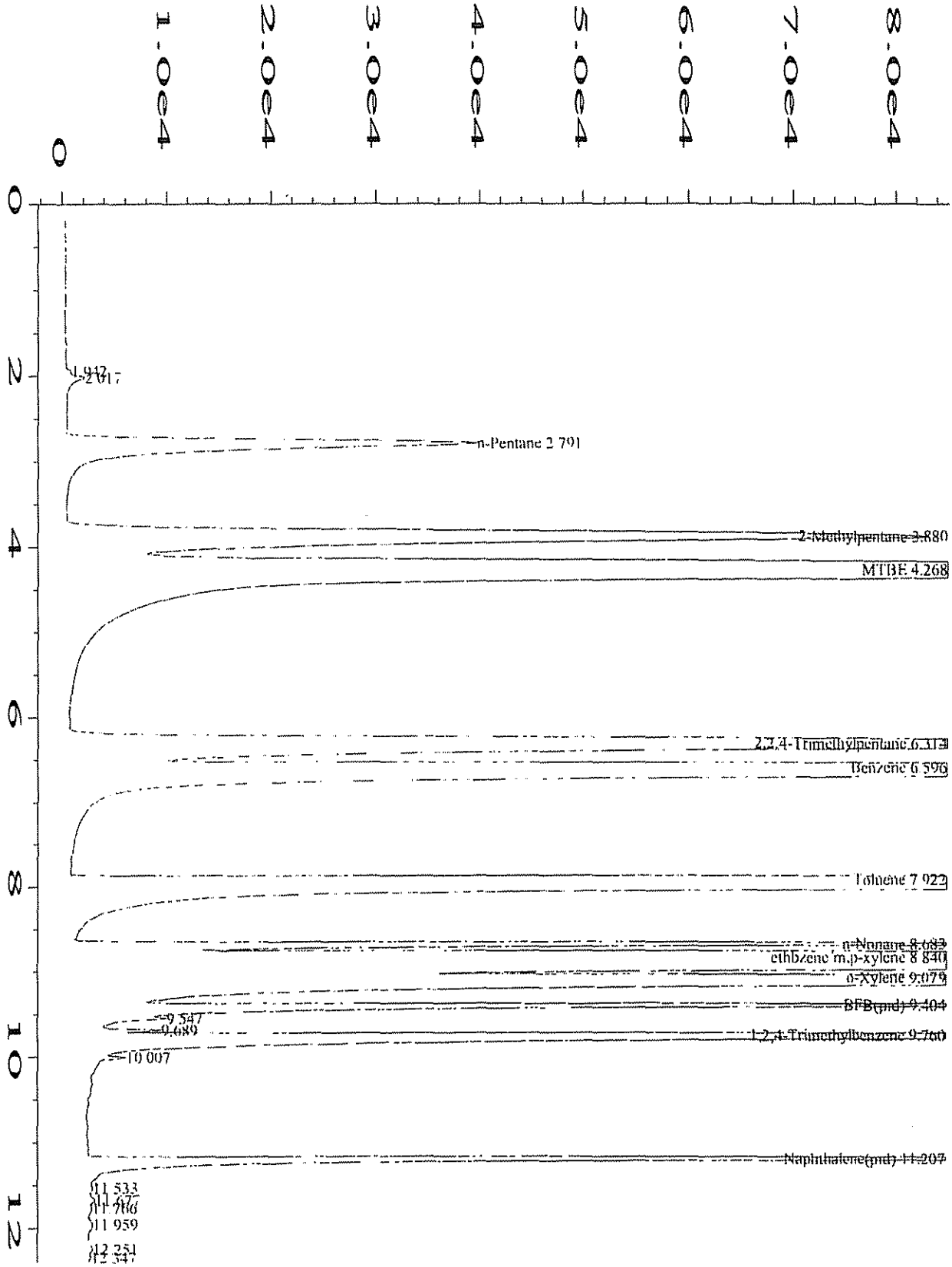
External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp071405\004R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 250
ın Time Bar Code:
ɔquired on : 14 Jul 05 09:40 AM
ɜport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ıg. 2 in C:\HPCHEM\1\DATA\vp071405\004R0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.791	326414	BB	0.122	1	52.051	n-Pentane
3.880	788591	BV	0.147	1	83.508	2-Methylpentane
4.268	3099474	VV	0.160	1	102.826	MTBE
6.314	1282014	VV	0.126	1	84.257	2,2,4-Trimethylpentane
6.596	3691908	VV	0.079	1	46.402	Benzene
7.922	6251271	PV	0.051	1	153.203	Toluene
8.683	368250	VV	0.044	1	54.256	n-Nonane
8.840	8393130	VV	0.057	1	248.133	ethbzene/m,p-xylene
9.079	3321363	VV	0.052	1	85.749	o-Xylene
9.404	457587	VV	0.042	1	30.798	BFB(pid)
9.760	2254703	VV	0.039	1	73.438	1,2,4-Trimethylbenzene
11.207	934074	VV	0.082	1	53.367	Naphthalene(pid)
1.942	1179	BV	0.042		11.788	* uncalibrated *
2.017	9688	VV	0.076		96.879	* uncalibrated *
9.547	34471	VV	0.067		344.714	* uncalibrated *
9.689	18711	VV	0.039		187.113	* uncalibrated *
10.007	31886	VV	0.092		318.858	* uncalibrated *
11.533	3651	VV	0.072		36.513	* uncalibrated *
11.677	5019	VV	0.083		50.185	* uncalibrated *
11.766	3250	VV	0.091		32.495	* uncalibrated *
11.959	4071	VV	0.110		40.709	* uncalibrated *
12.251	2050	PV	0.072		20.501	* uncalibrated *
12.347	360	VBA	0.042		3.600	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:40 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

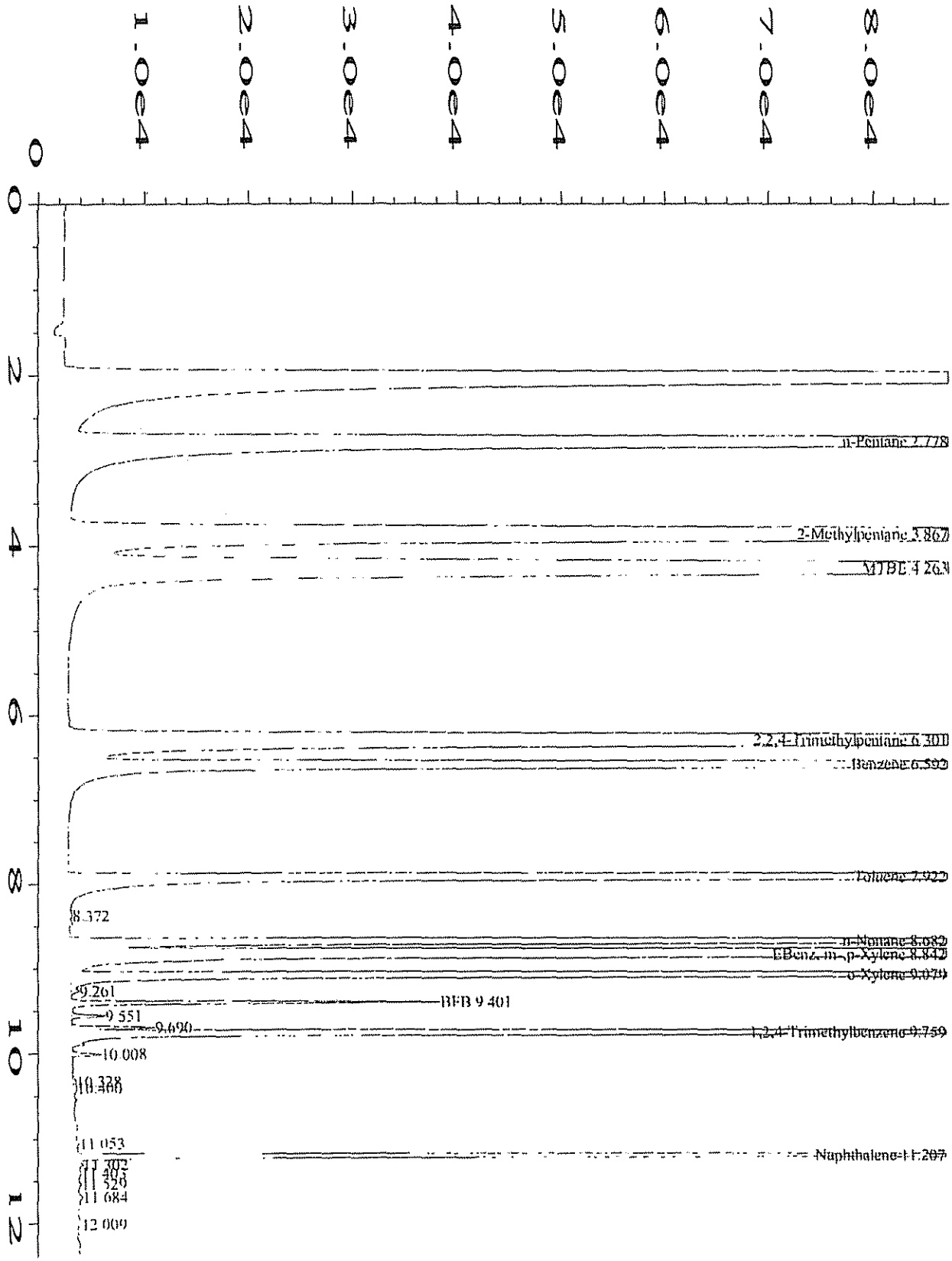
ta File Name : C:\HPCHEM\1\DATA\vp071405\005F0101.D
erator : DCS
strument : FID/PID
mple Name : V 500
n Time Bar Code:
quired on : 14 Jul 05 10:05 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\005F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.778	1742970	BV	0.094	1	4265.646	n-Pentane
3.867	2181370	PV	0.119	1	3248.649	2-Methylpentane
4.263	1736534	VB	0.137	1	51020.45	MTBE
6.301	1977652	VV	0.104	1	4892.879	2,2,4-Trimethylpentane
6.592	1408771	VB	0.057	1	1352.853	Benzene
7.922	3903076	BV	0.038	1	4578.974	Toluene
8.682	1826421	BV	0.036	1	2874.951	n-Nonane
8.842	6104778	VV	0.037	1	7836.609	EBenz, m-,p-Xylene
9.079	2396482	VV	0.033	1	3095.254	o-Xylene
9.401	66026	VV	0.030	1	254.328	BFB
9.759	2056422	VV	0.031	1	2943.913	1,2,4-Trimethylbenzene
11.207	774715	VV	0.026	1	-6752.609	Naphthalene
8.372	1147	VV	0.077		11.466	* uncalibrated *
9.261	2099	VV	0.041		20.990	* uncalibrated *
9.551	7152	VV	0.035		71.523	* uncalibrated *
9.690	14866	PV	0.030		148.660	* uncalibrated *
10.008	5222	PV	0.031		52.219	* uncalibrated *
10.328	1278	BV	0.068		12.776	* uncalibrated *
10.400	1644	VV	0.076		16.440	* uncalibrated *
11.053	2238	VV	0.072		22.384	* uncalibrated *
11.302	1855	VV	0.037		18.548	* uncalibrated *
11.403	3419	VV	0.093		34.188	* uncalibrated *
11.529	2004	VV	0.064		20.038	* uncalibrated *
11.684	2784	VV	0.076		27.841	* uncalibrated *
12.009	2112	VV	0.074		21.116	* uncalibrated *

alibration table contains at least one peak with amt = 0



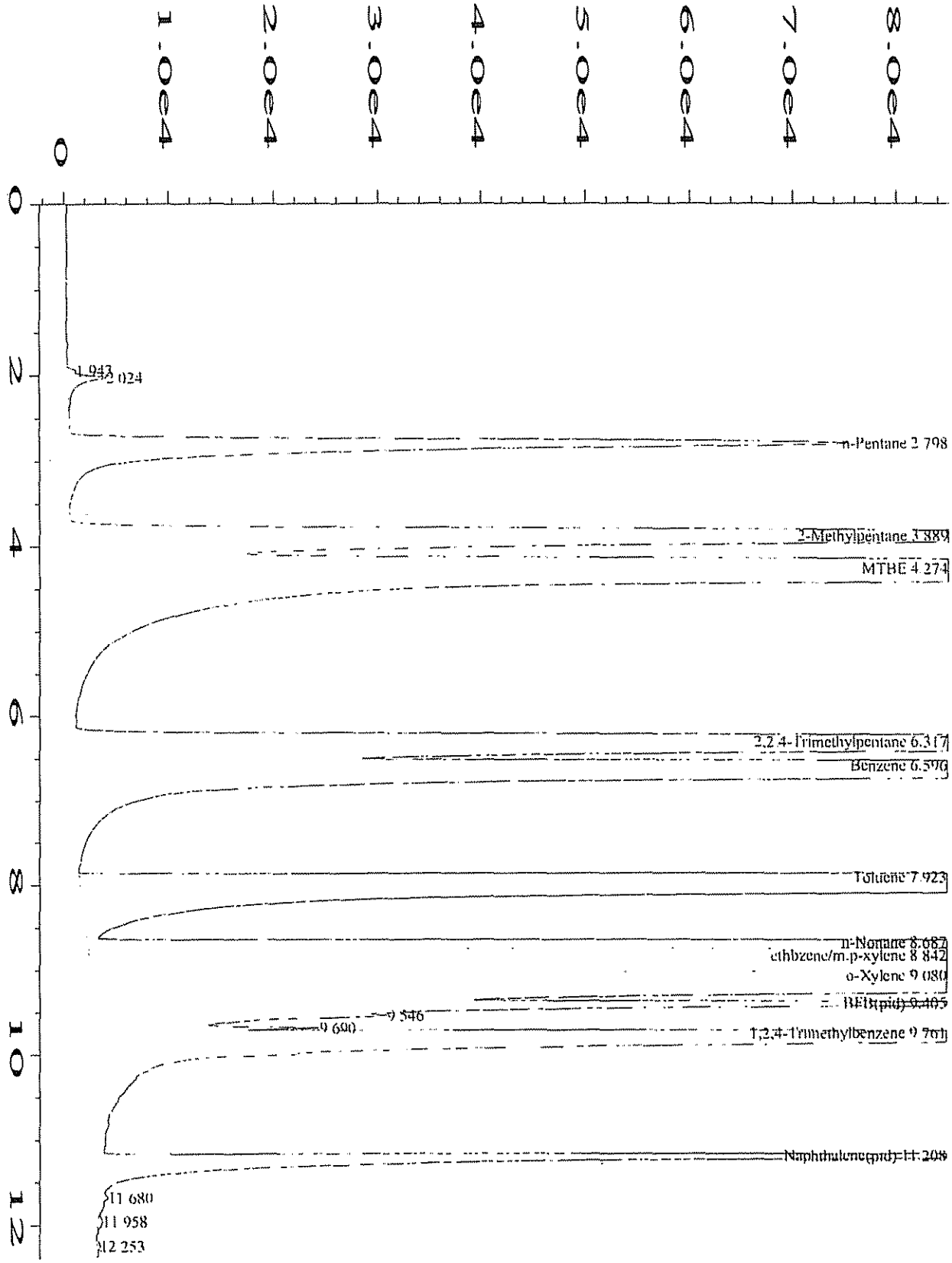
Data File Name	: C:\HPCHEM\1\DATA\vp071405\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 5
mple Name	: V 500	Injection Number	: 1
n Time Bar Code	:	Sequence Line	: 1
quired on	: 14 Jul 05 10:05 AM	Instrument Method	: GAS1.MTH
port Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

g. 2 in C:\HPCHEM\1\DATA\vp071405\005R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.798	665272	BV	0.127	1	106.086	n-Pentane
3.889	1610206	PV	0.145	1	170.513	2-Methylpentane
4.274	6890871	VV	0.166	1	228.607	MTBE
6.317	2946490	VV	0.131	1	193.649	2,2,4-Trimethylpentane
6.596	6903642	VV	0.081	1	86.770	Benzene
7.923	1.17723E+007	PV	0.054	1	288.510	Toluene
8.687	1339610	VV	0.048	1	197.371	n-Nonane
8.842	1.61892E+007	VV	0.052	1	478.613	ethbzene/m,p-xylene
9.080	7706672	VV	0.051	1	198.967	o-Xylene
9.405	731569	VV	0.053	1	49.238	BFB(pid)
9.761	5207830	VV	0.039	1	169.623	1,2,4-Trimethylbenzene
11.208	2227832	PV	0.031	1	127.284	Naphthalene(pid)
1.943	2003	BV	0.040		20.035	* uncalibrated *
2.024	23244	VB	0.084		232.435	* uncalibrated *
9.546	133527	VV	0.079		1335.268	* uncalibrated *
9.690	55487	VV	0.038		554.872	* uncalibrated *
11.680	4387	VV	0.078		43.866	* uncalibrated *
11.958	3333	VV	0.106		33.335	* uncalibrated *
12.253	1461	PV	0.068		14.609	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

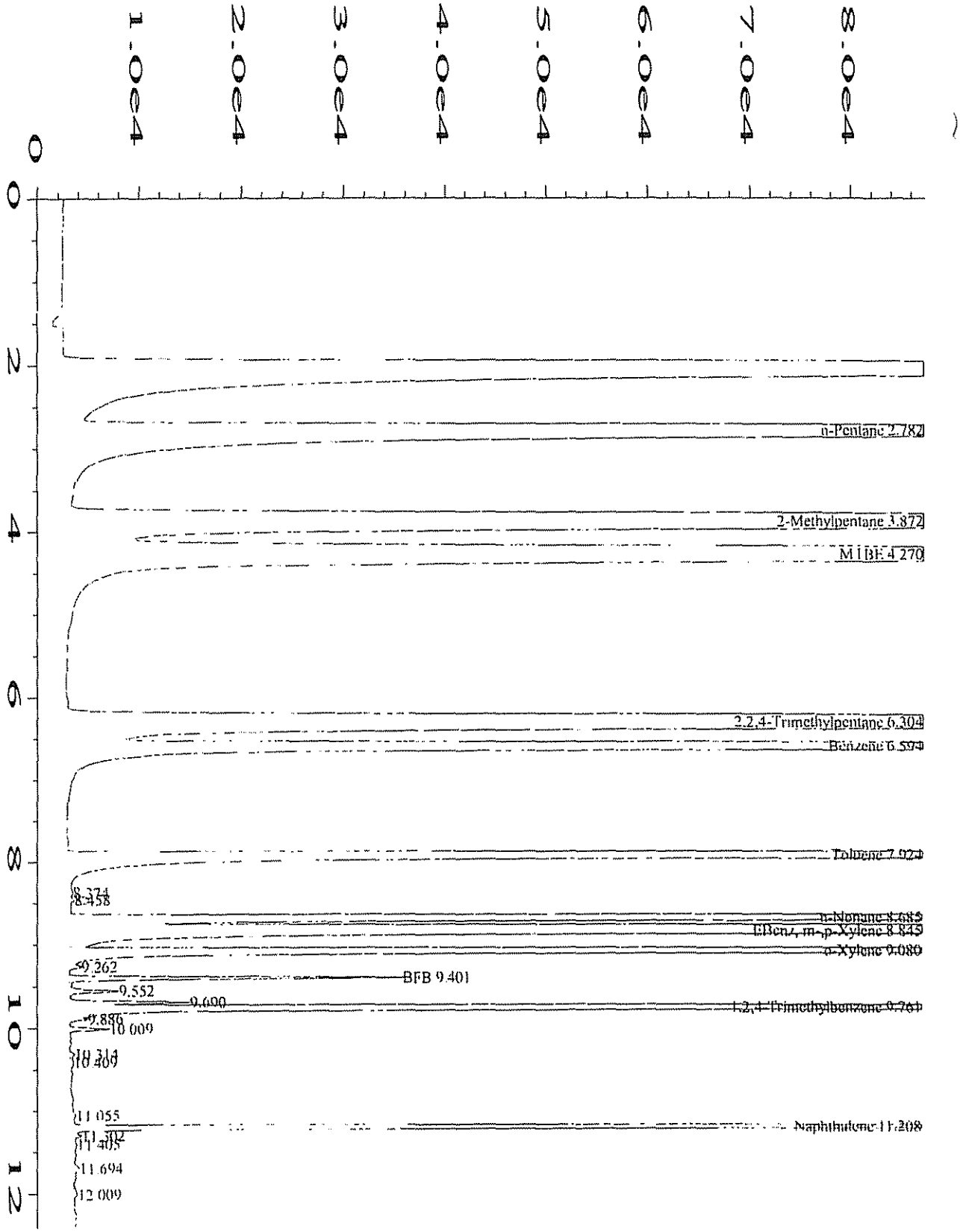
ta File Name : C:\HPCHEM\1\DATA\vp071405\006F0101.D
erator : DCS
strument : FID/PID
mple Name : V 750
n Time Bar Code:
quired on : 14 Jul 05 10:30 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\006F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.782	2652861	BV	0.097	1	6886.704	n-Pentane
3.872	3424588	PV	0.119	1	5398.938	2-Methylpentane
4.270	2615165	VB	0.136	1	80941.89	MTBE
6.304	3347705	VV	0.105	1	8868.986	2,2,4-Trimethylpentane
6.594	2207719	VV	0.057	1	2204.097	Benzene
7.924	5984413	BV	0.037	1	7396.813	Toluene
8.685	3017734	BV	0.036	1	4900.926	n-Nonane
8.845	9264266	VV	0.036	1	12646.65	EBenz, m-,p-Xylene
9.080	3555046	VV	0.033	1	4870.791	o-Xylene
9.401	63490	PV	0.030	1	244.560	BFB
9.761	3032646	VV	0.030	1	4630.738	1,2,4-Trimethylbenzene
11.208	1137876	VV	0.026	1	-10828.67	Naphthalene
8.374	1497	VV	0.074		14.971	* uncalibrated *
8.458	1134	VB	0.043		11.342	* uncalibrated *
9.262	3166	VV	0.040		31.660	* uncalibrated *
9.552	11093	VV	0.035		110.925	* uncalibrated *
9.690	23714	VV	0.031		237.136	* uncalibrated *
9.886	3865	VV	0.036		38.648	* uncalibrated *
10.009	7822	VV	0.031		78.224	* uncalibrated *
10.314	1455	PV	0.044		14.550	* uncalibrated *
10.409	1722	VV	0.094		17.218	* uncalibrated *
11.055	2011	VV	0.072		20.107	* uncalibrated *
11.302	2878	VV	0.043		28.781	* uncalibrated *
11.405	2499	VV	0.082		24.985	* uncalibrated *
11.694	4348	VV	0.107		43.479	* uncalibrated *
12.009	1945	VV	0.073		19.448	* uncalibrated *

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp071405\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 10:30 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

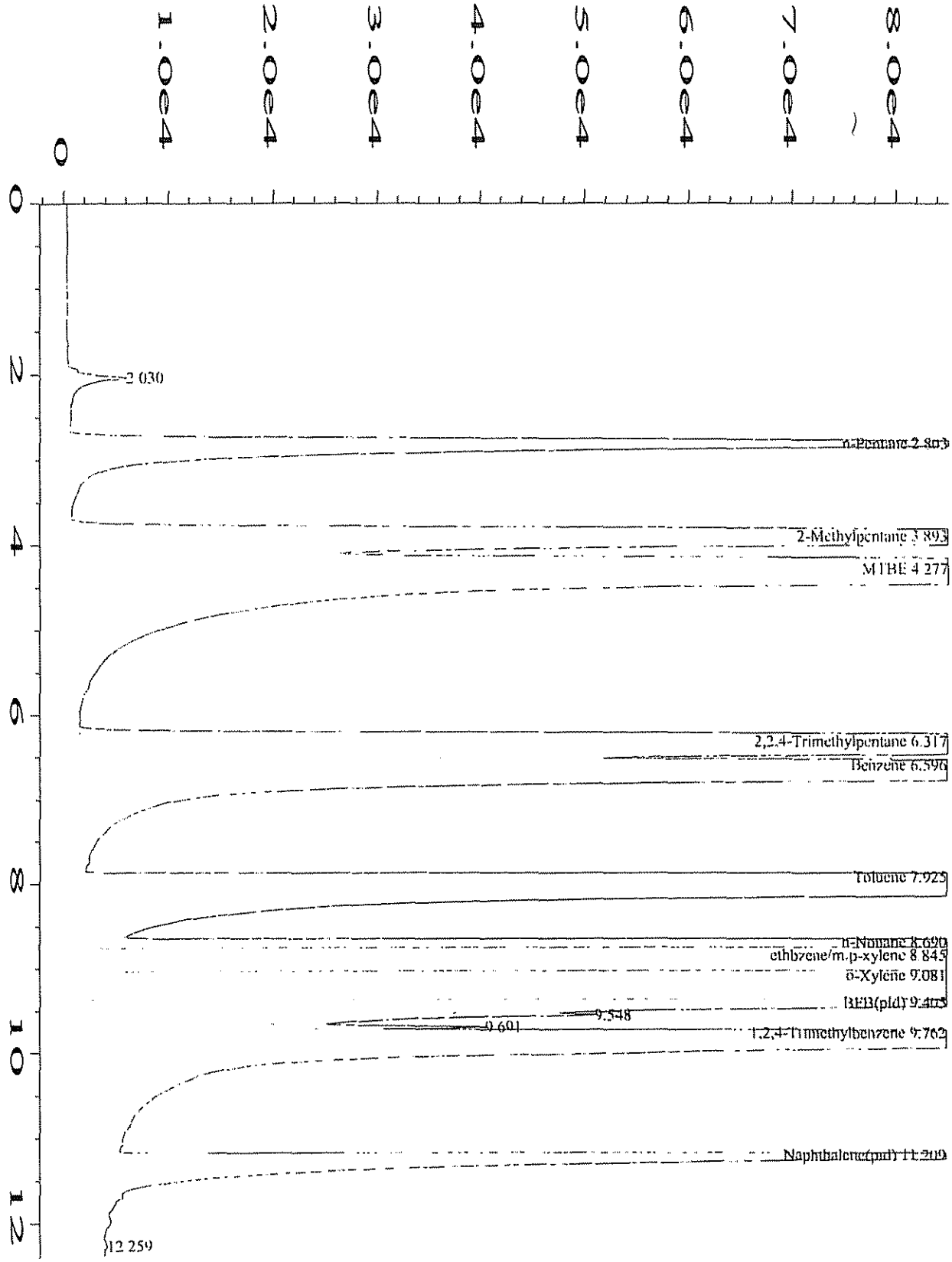
External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp071405\006R0101.D
erator : DCS
strument : FID/PID
mple Name : V 750
n Time Bar Code:
quired on : 14 Jul 05 10:30 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

g. 2 in C:\HPCHEM\1\DATA\vp071405\006R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.803	975481	BV	0.134	1	155.553	n-Pentane
3.893	2424534	PV	0.149	1	256.747	2-Methylpentane
4.277	9621048	VV	0.170	1	319.182	MTBE
6.317	4725068	PV	0.132	1	310.541	2,2,4-Trimethylpentane
6.596	9633231	VV	0.083	1	121.077	Benzene
7.925	1.64822E+007	PV	0.055	1	403.937	Toluene
8.690	2120721	VV	0.048	1	312.456	n-Nonane
8.845	2.20006E+007	VV	0.053	1	650.422	ethbzene/m,p-xylene
9.081	1.12653E+007	VV	0.053	1	290.842	o-Xylene
9.405	956172	VV	0.098	1	64.355	BFB(pid)
9.762	8311246	VV	0.043	1	270.704	1,2,4-Trimethylbenzene
11.209	3517427	VV	0.057	1	200.962	Naphthalene(pid)
2.030	38178	BV	0.091		381.778	* uncalibrated *
9.548	252959	VV	0.087		2529.595	* uncalibrated *
9.691	102580	VV	0.039		1025.798	* uncalibrated *
12.259	1377	VV	0.069		13.769	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\006R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:30 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

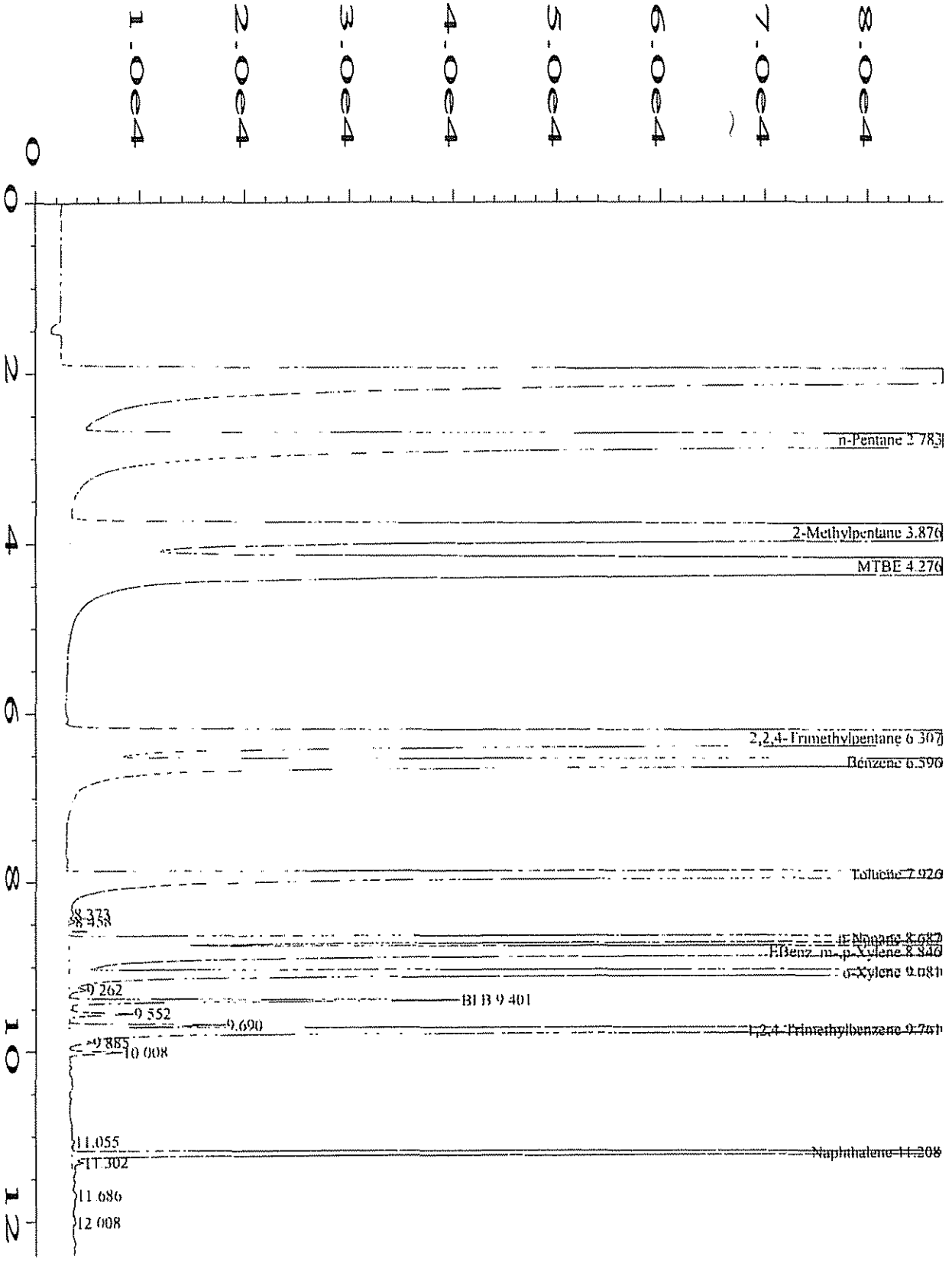
ta File Name : C:\HPCHEM\1\DATA\vp071405\008F0101.D
erator : DCS
strument : FID/PID
mple Name : V 1000
n Time Bar Code:
quired on : 14 Jul 05 11:21 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\008F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.783	3704165	BV	0.098	1	9915.121	n-Pentane
3.876	4661301	PV	0.120	1	7537.976	2-Methylpentane
4.276	3978270	VV	0.136	1	127361.9	MTBE
6.307	4551928	VV	0.104	1	12363.83	2,2,4-Trimethylpentane
6.596	3043185	VV	0.057	1	3094.250	Benzene
7.926	8164170	BV	0.037	1	10347.90	Toluene
8.687	4098524	BV	0.036	1	6738.942	n-Nonane
8.846	1.26057E+007	VV	0.035	1	17733.71	EBenz, m-,p-Xylene
9.081	4759327	VV	0.032	1	6716.389	o-Xylene
9.401	72627	VV	0.030	1	279.757	BFB
9.761	3901614	VV	0.030	1	6132.235	1,2,4-Trimethylbenzene
11.208	1571818	VV	0.026	1	-15699.17	Naphthalene
8.373	2545	VV	0.076		25.448	* uncalibrated *
8.458	1897	VB	0.046		18.969	* uncalibrated *
9.262	4665	VV	0.042		46.652	* uncalibrated *
9.552	14161	VV	0.035		141.607	* uncalibrated *
9.690	29684	VV	0.031		296.844	* uncalibrated *
9.885	5004	VV	0.037		50.036	* uncalibrated *
10.008	10327	VV	0.032		103.275	* uncalibrated *
11.055	1037	BV	0.052		10.370	* uncalibrated *
11.302	3169	VV	0.040		31.692	* uncalibrated *
11.686	2006	VV	0.071		20.065	* uncalibrated *
12.008	1448	VV	0.071		14.484	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\008F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 8
ample Name	: V 1000	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 11:21 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

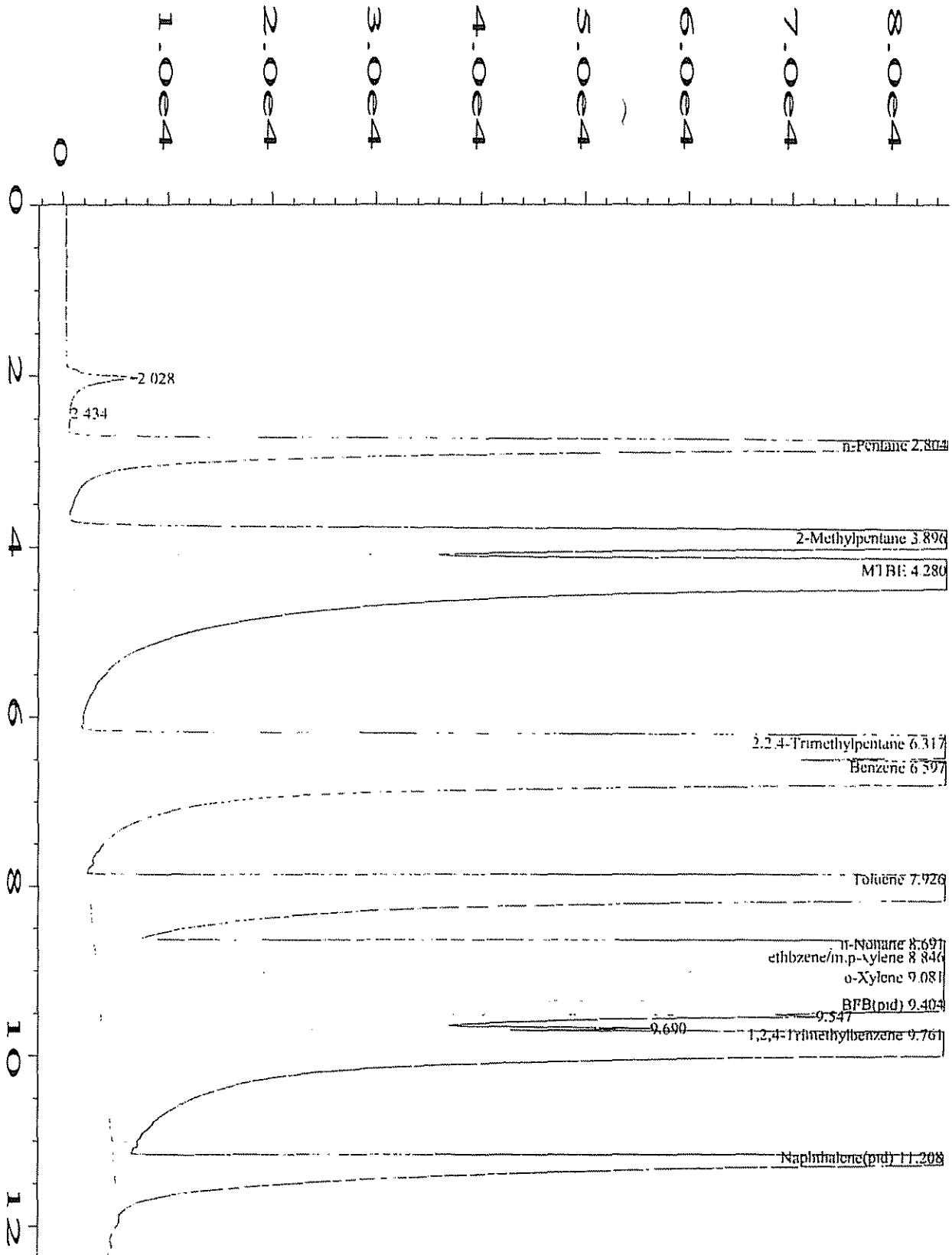
External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp071405\008R0101.D
erator : DCS
strument : FID/PID
mple Name : V 1000
n Time Bar Code:
quired on : 14 Jul 05 11:21 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

g. 2 in C:\HPCHEM\1\DATA\vp071405\008R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.804	1337647	BV	0.137	1	213.305	n-Pentane
3.896	3236774	PV	0.151	1	342.760	2-Methylpentane
4.280	1.35276E+007	VV	0.173	1	448.783	MTBE
6.317	6150148	VV	0.133	1	404.200	2,2,4-Trimethylpentane
6.597	1.2296E+007	VV	0.083	1	154.545	Benzene
7.926	2.05001E+007	PV	0.056	1	502.405	Toluene
8.691	2706572	VV	0.046	1	398.772	n-Nonane
8.846	2.68764E+007	VV	0.053	1	794.568	ethbzene/m,p-xylene
9.081	1.4125E+007	VV	0.054	1	364.671	o-Xylene
9.404	1283136	VV	0.065	1	86.361	BFB(pid)
9.761	1.07256E+007	VV	0.044	1	349.341	1,2,4-Trimethylbenzene
11.208	5037357	VV	0.057	1	287.801	Naphthalene(pid)
2.028	49839	BV	0.098		498.389	* uncalibrated *
2.434	1338	VB	0.119		13.384	* uncalibrated *
9.547	368835	VV	0.089		3688.351	* uncalibrated *
9.690	144281	VV	0.039		1442.812	* uncalibrated *



a File Name	: C:\HPCHEM\1\DATA\vp071405\008R0101.D		
rator	: DCS	Page Number	: 1
trument	: FID/PID	Vial Number	: 8
ple Name	: V 1000	Injection Number	: 1
Time Bar Code:		Sequence Line	: 1
uired on	: 14 Jul 05 11:21 AM	Instrument Method:	GAS1.MTH
ort Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
t Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
tiplier	: 1	ISTD Amount	:

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/25/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	11.8
C_9-C_{12} Aliphatics	500	50	6.4
C_9-C_{10} Aromatics	500	50	-1.7

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

External Standard Report

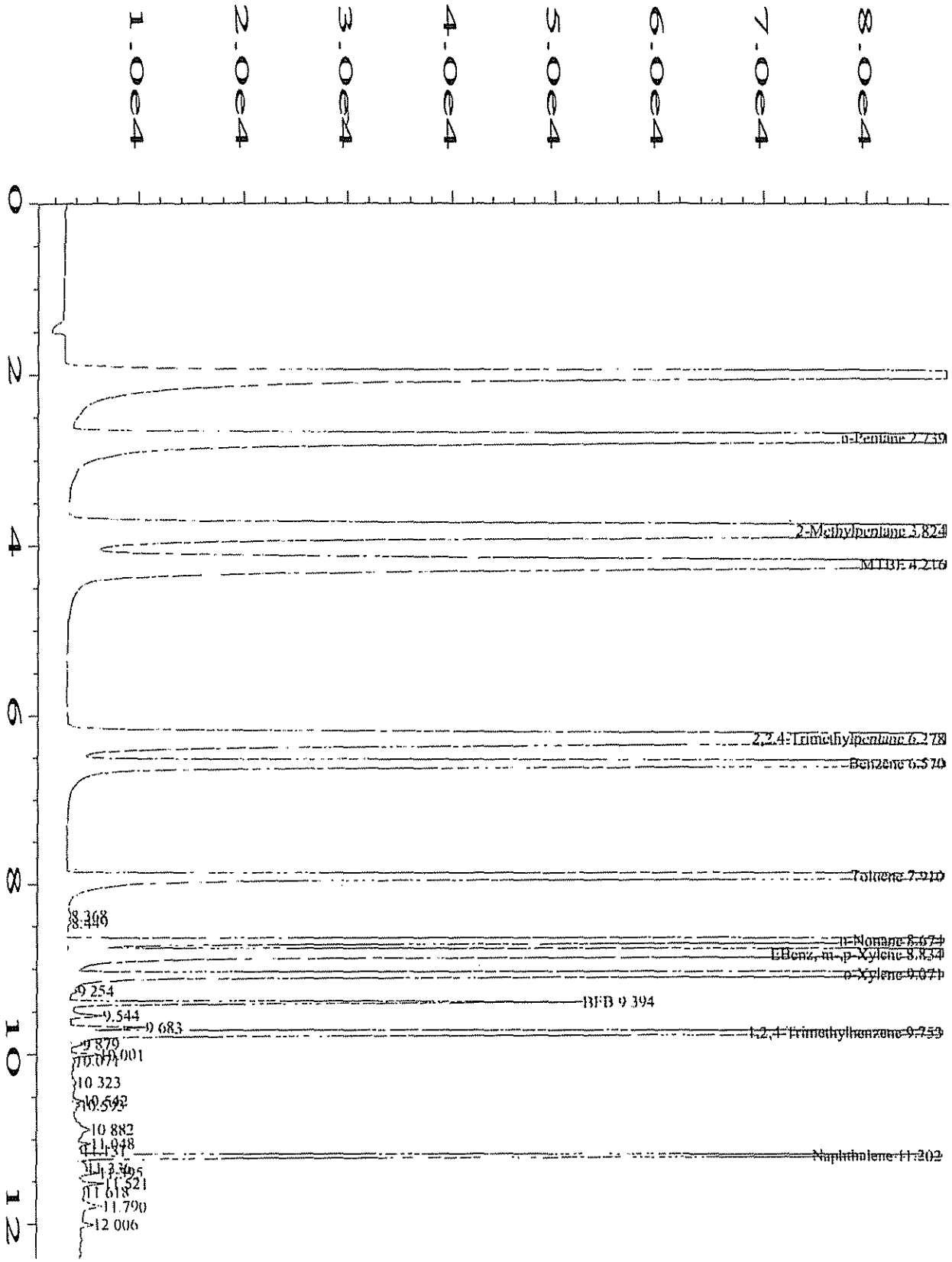
ata File Name : C:\HPCHEM\1\DATA\vp072505\002F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 25 Jul 05 08:47 AM
eport Created on: 26 Jul 05 11:32 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\002F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.739	1486141	BV	0.088	1	3525.816	n-Pentane
3.824	1925375	PV	0.120	1	2805.876	2-Methylpentane
4.216	1013926	VB	0.138	1	26412.35	MTBE
6.278	1755085	BV	0.106	1	4246.957	2,2,4-Trimethylpentane
6.570	1203088	VB	0.057	1	1133.706	Benzene
7.910	3273247	BV	0.038	1	3726.274	Toluene
8.674	1609684	BV	0.035	1	2506.364	n-Nonane
8.834	5330895	VV	0.037	1	6658.441	EBenz, m-,p-Xylene
9.071	2080804	VV	0.033	1	2611.467	o-Xylene
9.394	90407	VV	0.029	1	348.245	BFB
9.753	1870510	VV	0.031	1	2622.674	1,2,4-Trimethylbenzene
11.202	457620	VV	0.026	1	-3193.576	Naphthalene
8.368	1715	VV	0.068		17.149	* uncalibrated *
8.449	1180	VB	0.048		11.804	* uncalibrated *
9.254	2255	VV	0.043		22.551	* uncalibrated *
9.544	8253	VV	0.039		82.534	* uncalibrated *
9.683	13533	PV	0.030		135.329	* uncalibrated *
9.879	2360	VV	0.035		23.604	* uncalibrated *
10.001	5639	VV	0.032		56.387	* uncalibrated *
10.071	1289	VV	0.058		12.890	* uncalibrated *
10.323	1457	PV	0.057		14.573	* uncalibrated *
10.542	2217	PV	0.035		22.167	* uncalibrated *
10.593	2275	VV	0.050		22.752	* uncalibrated *
10.882	9893	PV	0.091		98.929	* uncalibrated *
11.048	3901	VV	0.040		39.008	* uncalibrated *
11.131	1564	VV	0.046		15.643	* uncalibrated *
11.336	4897	VV	0.068		48.974	* uncalibrated *
11.395	5573	VV	0.040		55.728	* uncalibrated *
11.521	7226	VV	0.042		72.257	* uncalibrated *
11.618	3301	VV	0.082		33.006	* uncalibrated *
11.790	9907	VV	0.062		99.065	* uncalibrated *
12.006	3431	VB	0.041		34.307	* uncalibrated *

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp072505\002F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 08:47 AM	Instrument Method	: GAS1.MTH
Report Created on	: 26 Jul 05 11:32 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

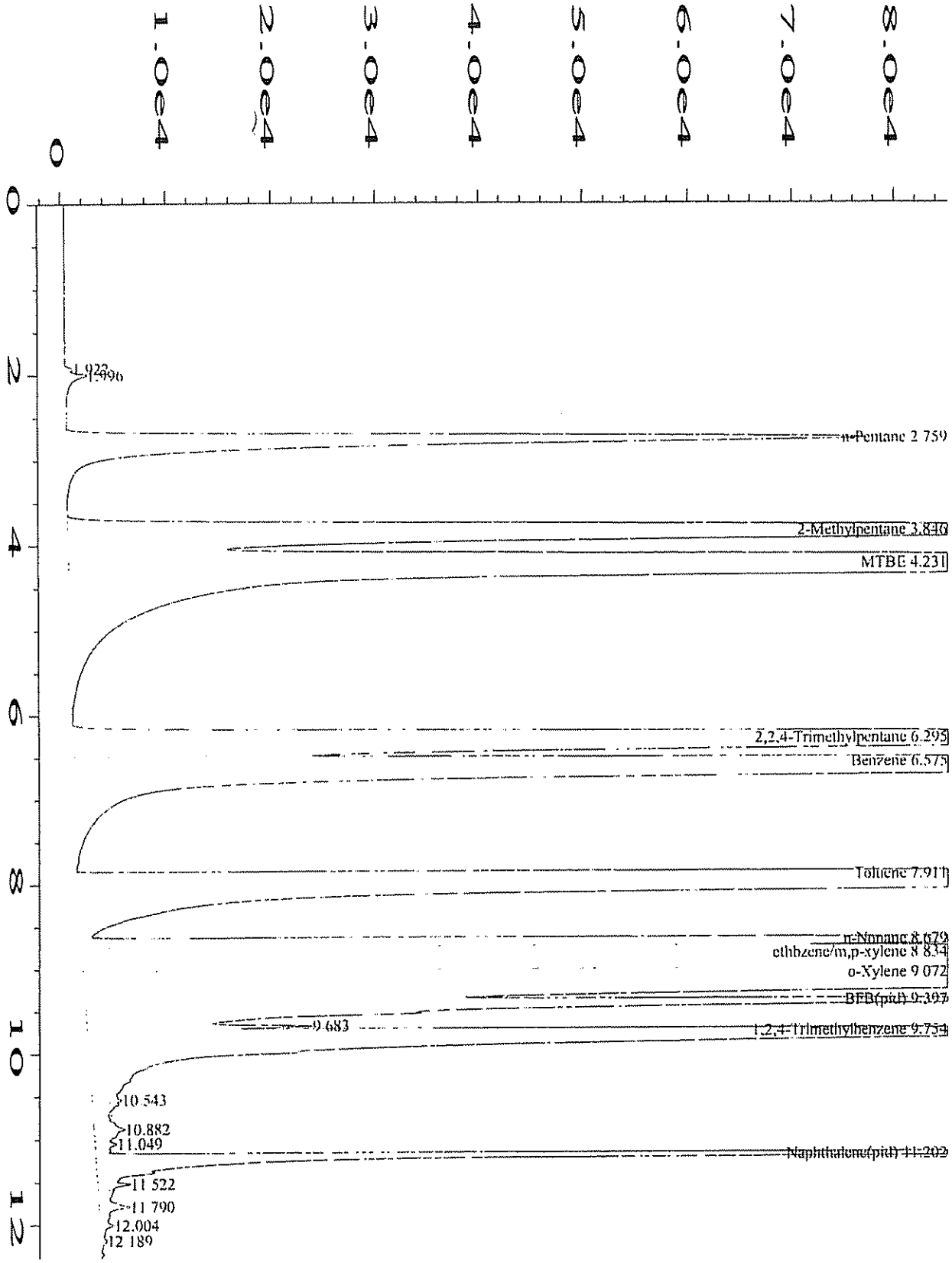
External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp072505\002R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 500
ın Time Bar Code:
:quired on : 25 Jul 05 08:47 AM
ɜport Created on: 26 Jul 05 11:32 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ılltiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp072505\002R0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.759	641525	BV	0.124	1	102.299	n-Pentane
3.846	1564204	PV	0.143	1	165.642	2-Methylpentane
4.231	4421915	VV	0.166	1	146.699	MTBE
6.295	2774469	PV	0.130	1	182.344	2,2,4-Trimethylpentane
6.575	6380060	VV	0.081	1	80.189	Benzene
7.911	1.06262E+007	PV	0.053	1	260.421	Toluene
8.679	1227776	VV	0.047	1	180.894	n-Nonane
8.834	1.49194E+007	VV	0.051	1	441.073	ethbzene/m,p-xylene
9.072	7125999	VV	0.051	1	183.976	o-Xylene
9.397	1085077	VV	0.056	1	73.031	BFB(pid)
9.754	4860193	VV	0.039	1	158.300	1,2,4-Trimethylbenzene
11.202	1341507	VV	0.031	1	76.645	Naphthalene(pid)
1.922	1923	BV	0.042		19.230	* uncalibrated *
1.996	12302	VB	0.082		123.022	* uncalibrated *
9.683	58786	VV	0.039		587.863	* uncalibrated *
10.543	13909	VV	0.064		139.087	* uncalibrated *
10.882	36659	VV	0.152		366.592	* uncalibrated *
11.049	9305	VV	0.059		93.048	* uncalibrated *
11.522	13037	VV	0.057		130.370	* uncalibrated *
11.790	18777	VV	0.083		187.768	* uncalibrated *
12.004	7614	VV	0.076		76.139	* uncalibrated *
12.189	2751	VV	0.066		27.506	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp072505\002R0101.D		
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nstrument	: FID/PID	Vial Number	: 2
ample Name	: V 500	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 08:47 AM	Instrument Method	: GAS1.MTH
eport Created on	: 26 Jul 05 11:32 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

VPH QC, Blanks Raw Data

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp072505\006F0101.D
›erator : DCS
ıstrument : FID/PID
ımple Name : vblk4072505a
ın Time Bar Code:
:quired on : 25 Jul 05 10:28 AM
:port Created on: 25 Jul 05 02:08 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

.g. 1 in C:\HPCHEM\1\DATA\vp072505\006F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.825	1975	BB	0.099	1	0.351	2-Methylpentane
4.282	* not found *			1		MTBE
6.280	5602	VV	0.101	1	1.076	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.912	1559	BV	0.040	1	0.166	Toluene
8.674	14798	BV	0.042	1	3.713	n-Nonane
8.833	3582	VV	0.043	1	0.350	EBenz, m-,p-Xylene
9.124	2076	BV	0.060	1	0.206	o-Xylene
9.394	82062	BV	0.029	1	316.101	BFB
9.754	4882	VB	0.043	1	0.520	1,2,4-Trimethylbenzene
11.203	2312	VV	0.031	1	0.546	Naphthalene
7.267	1305	BV	0.063		13.053	* uncalibrated *
7.375	2869	VV	0.075		28.690	* uncalibrated *
7.503	2116	VB	0.086		21.157	* uncalibrated *
8.374	1463	BV	0.058		14.632	* uncalibrated *
8.451	1127	VB	0.059		11.273	* uncalibrated *
9.519	3402	VV	0.049		34.023	* uncalibrated *
9.998	1095	BV	0.034		10.948	* uncalibrated *
10.107	2394	VV	0.065		23.943	* uncalibrated *
10.318	1263	VV	0.035		12.629	* uncalibrated *
10.550	2783	VV	0.055		27.833	* uncalibrated *
11.522	1755	VB	0.051		17.548	* uncalibrated *
11.758	3156	BV	0.060		31.557	* uncalibrated *
12.006	1599	VB	0.037		15.989	* uncalibrated *

ɜlibration table contains at least one peak with amt = 0

ɔt all calibrated peaks were found

External Standard Report

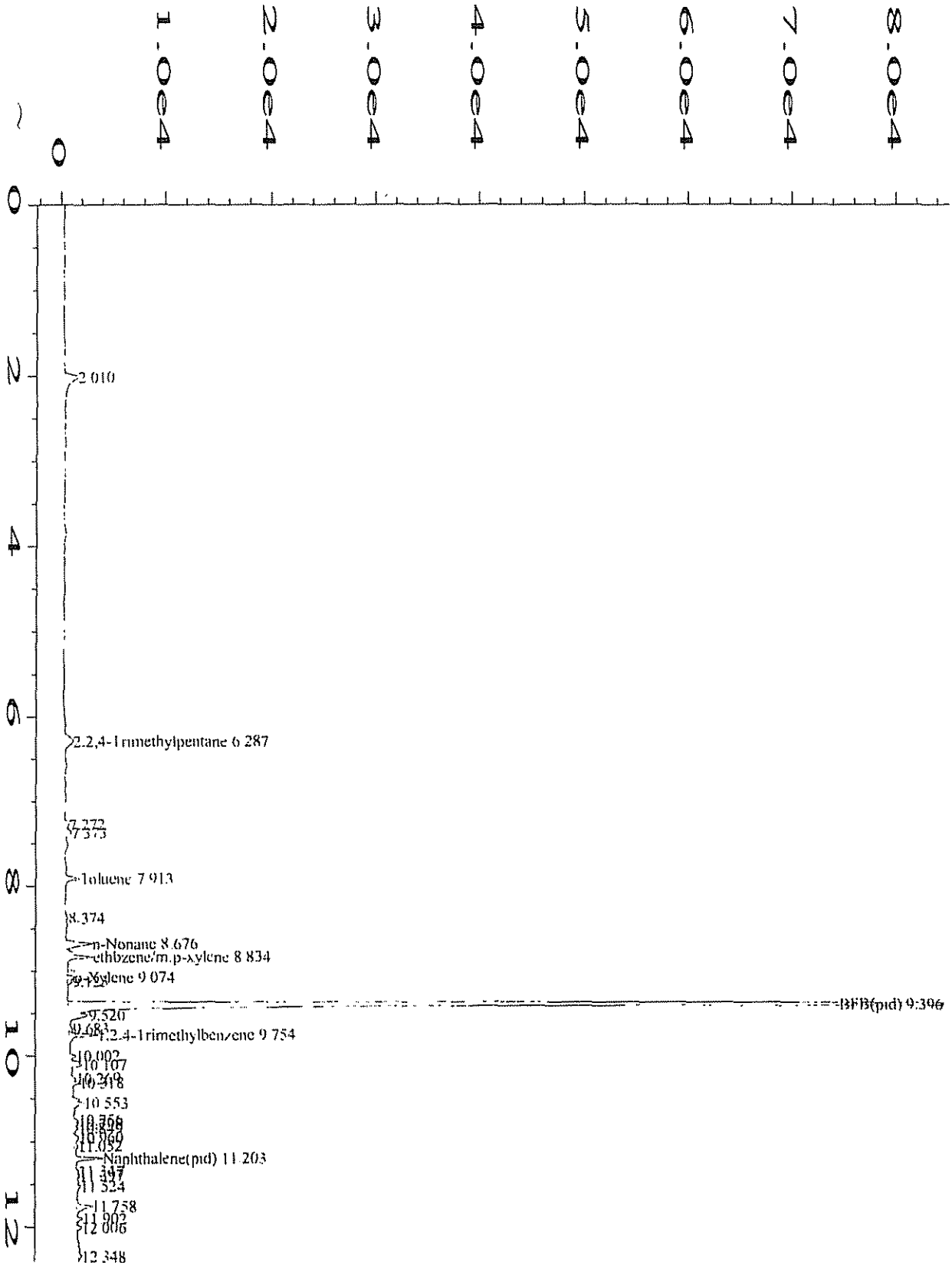
ıta File Name : C:\HPCHEM\1\DATA\vp072505\006R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : vblk4072505a
ın Time Bar Code:
:quired on : 25 Jul 05 10:28 AM
ɜport Created on: 25 Jul 05 02:08 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ıg. 2 in C:\HPCHEM\1\DATA\vp072505\006R0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.287	5489	BV	0.098	1	0.361	2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.913	4349	VV	0.047	1	0.107	Toluene
8.676	7249	BV	0.044	1	1.068	n-Nonane
8.834	7786	VB	0.045	1	0.230	ethbzene/m,p-xylene
9.074	1682	BV	0.036	1	0.0434	o-Xylene
9.396	386870	BV	0.032	1	26.038	BFB(pid)
9.754	7270	VV	0.039	1	0.237	1,2,4-Trimethylbenzene
11.203	5936	VV	0.033	1	0.339	Naphthalene(pid)
2.010	7759	BB	0.084		77.590	* uncalibrated *
7.272	1492	BV	0.063		14.917	* uncalibrated *
7.373	2209	VV	0.070		22.094	* uncalibrated *
8.374	555	BV	0.056		5.546	* uncalibrated *
9.123	1091	VV	0.041		10.912	* uncalibrated *
9.520	7449	VV	0.060		74.487	* uncalibrated *
9.683	1456	VV	0.050		14.562	* uncalibrated *
10.002	1359	VV	0.039		13.589	* uncalibrated *
10.107	4406	VV	0.053		44.061	* uncalibrated *
10.269	1246	VV	0.041		12.464	* uncalibrated *
10.318	1968	VV	0.036		19.681	* uncalibrated *
10.553	4972	VV	0.059		49.723	* uncalibrated *
10.756	1834	VV	0.054		18.342	* uncalibrated *
10.798	1338	VV	0.035		13.382	* uncalibrated *
10.849	1701	VV	0.045		17.011	* uncalibrated *
10.960	2167	VV	0.064		21.668	* uncalibrated *
11.052	1670	VV	0.062		16.700	* uncalibrated *
11.347	1243	VV	0.050		12.433	* uncalibrated *
11.397	1170	VV	0.039		11.696	* uncalibrated *
11.524	2259	VV	0.061		22.595	* uncalibrated *
11.758	5776	VV	0.051		57.760	* uncalibrated *
11.902	1444	VV	0.038		14.436	* uncalibrated *
12.006	1486	VB	0.047		14.859	* uncalibrated *
12.348	826	VBA	0.044		8.260	* uncalibrated *

ot all calibrated peaks were found



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nstrument	: FID/PID	Vial Number	: 6
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un Time Bar Code:		Sequence Line	: 1
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eport Created on	: 25 Jul 05 02:08 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\012F0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4072505b
in Time Bar Code:
cquired on : 25 Jul 05 03:03 PM
eport Created on: 25 Jul 05 03:16 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

456

ig. 1 in C:\HPCHEM\1\DATA\vp072505\012F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.754	44665	BV	0.085	1	44.550	n-Pentane
3.840	64856	BV	0.126	1	11.519	2-Methylpentane
4.179	61429	VV	0.164	1	143.999	MTBE
6.287	55363	VV	0.113	1	10.634	2,2,4-Trimethylpentane
6.578	62478	VV	0.088	1	7.918	Benzene
7.914	198102	VV	0.040	1	21.029	Toluene
8.675	9495	VV	0.048	1	2.382	n-Nonane
8.834	194688	VV	0.040	1	19.032	EBenz, m-,p-Xylene
9.073	65904	VV	0.047	1	6.543	o-Xylene
9.396	83536	PV	0.029	1	321.779	BFB
9.754	86703	VV	0.047	1	9.228	1,2,4-Trimethylbenzene
11.204	4987	VV	0.032	1	1.177	Naphthalene
2.978	16746	PV	0.071		167.461	* uncalibrated *
3.175	29950	VB	0.109		299.501	* uncalibrated *
4.499	33585	VV	0.111		335.854	* uncalibrated *
4.818	23565	PV	0.175		235.648	* uncalibrated *
5.066	13988	VV	0.121		139.884	* uncalibrated *
5.190	11494	VV	0.106		114.936	* uncalibrated *
5.447	23207	VV	0.109		232.073	* uncalibrated *
5.766	1805	PV	0.093		18.047	* uncalibrated *
5.936	20267	VV	0.088		202.670	* uncalibrated *
6.063	47565	VV	0.142		475.650	* uncalibrated *
6.719	9210	VV	0.074		92.101	* uncalibrated *
6.808	7555	VV	0.066		75.547	* uncalibrated *
6.966	18358	VV	0.107		183.577	* uncalibrated *
7.103	11761	VV	0.073		117.614	* uncalibrated *
7.269	24182	VV	0.073		241.821	* uncalibrated *
7.376	38200	VV	0.076		381.998	* uncalibrated *
7.511	24207	VV	0.091		242.072	* uncalibrated *
7.784	15032	VV	0.065		150.320	* uncalibrated *
8.047	8835	VV	0.103		88.353	* uncalibrated *
8.372	12495	VV	0.065		124.954	* uncalibrated *
8.453	5949	VV	0.047		59.489	* uncalibrated *
9.196	2007	VV	0.036		20.073	* uncalibrated *
9.257	5071	VV	0.038		50.710	* uncalibrated *
9.521	105949	VV	0.053		1059.492	* uncalibrated *
9.684	18360	VV	0.034		183.598	* uncalibrated *
9.886	2895	VV	0.048		28.952	* uncalibrated *
10.003	18521	VV	0.032		185.213	* uncalibrated *
10.107	34008	VV	0.052		340.080	* uncalibrated *
10.176	12435	VV	0.044		124.349	* uncalibrated *

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ıta File Name    : C:\HPCHEM\1\DATA\vp072505\012F0101.D
ɔerator          : DCS                          Page Number       : 2
ıstrument        : FID/PID                      Vial Number       : 12
ımple Name       : lcs4072505b                  Injection Number  : 1
ın Time Bar Code:                               Sequence Line     : 1
:quired on       : 25 Jul 05  03:03 PM          Instrument Method: GAS1.MTH
ɜport Created on: 25 Jul 05  03:16 PM           Analysis Method   : VPH_FID.MTH
ıst Recalib on   : 24 AUG 04 09:09 AM           Sample Amount     : 0
ıltiplier        : 1                            ISTD Amount       :

 10.267        13515 VV   0.041        135.150 * uncalibrated *
 10.317        14617 VV   0.037        146.166 * uncalibrated *
 10.393         3801 VV   0.044         38.007 * uncalibrated *
 10.441         2963 VV   0.035         29.628 * uncalibrated *
 10.554        25111 VV   0.066        251.113 * uncalibrated *
 10.640         3005 VV   0.042         30.053 * uncalibrated *
 10.757        15037 VV   0.067        150.372 * uncalibrated *
 10.849         7373 VV   0.037         73.727 * uncalibrated *
 10.967         7664 VV   0.064         76.637 * uncalibrated *
 11.050         6339 VV   0.077         63.389 * uncalibrated *
 11.347         2293 VV   0.047         22.934 * uncalibrated *
 11.478         2415 VV   0.055         24.154 * uncalibrated *
 11.524         2607 VV   0.069         26.073 * uncalibrated *
 11.758         3791 VV   0.041         37.914 * uncalibrated *
 11.903         1222 VV   0.038         12.216 * uncalibrated *

'alibration table contains at least one peak with amt = 0

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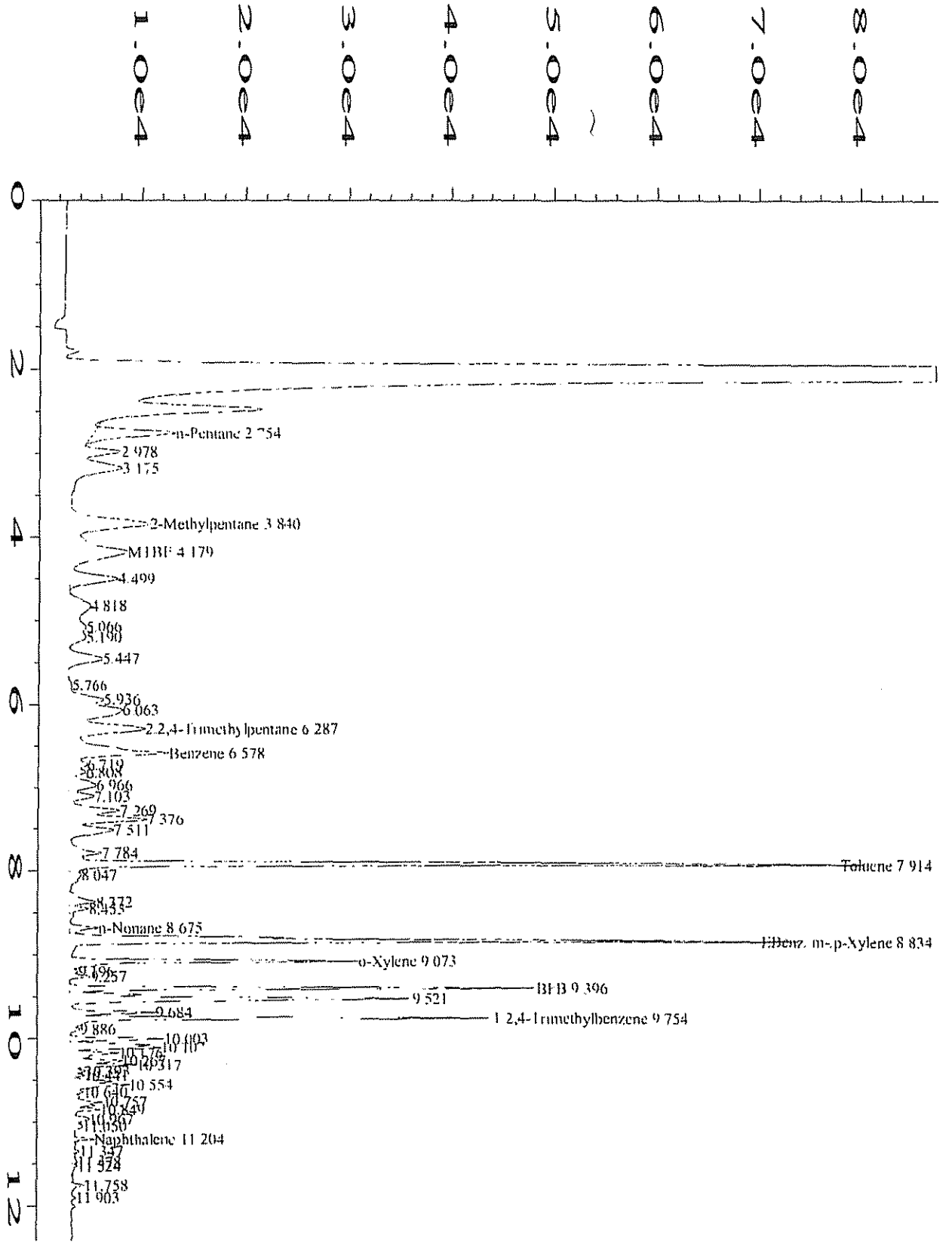

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ample Name	: lcs4072505b	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 25 Jul 05 03:03 PM	Instrument Method	: GAS1.MTH
eport Created on	: 25 Jul 05 03:16 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp072505\012R0101.D
erator : DCS
strument : FID/PID
mple Name : lcs4072505b
n Time Bar Code:
quired on : 25 Jul 05 03:03 PM
port Created on: 25 Jul 05 03:16 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

g. 2 in C:\HPCHEM\1\DATA\vp072505\012R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.801	62328	VV	0.142	1	9.939	n-Pentane
3.854	56357	VV	0.156	1	5.968	2-Methylpentane
4.234	78364	VV	0.162	1	2.600	MTBE
6.297	69783	VV	0.128	1	4.586	2,2,4-Trimethylpentane
6.588	193623	VV	0.079	1	2.434	Benzene
7.917	512107	VV	0.044	1	12.550	Toluene
8.678	5963	VV	0.055	1	0.879	n-Nonane
8.835	421811	VV	0.042	1	12.470	ethbzene/m,p-xylene
9.074	117931	VV	0.037	1	3.045	o-Xylene
9.398	393924	PV	0.033	1	26.513	BFB(pid)
9.754	161507	VV	0.034	1	5.260	1,2,4-Trimethylbenzene
11.204	9619	VV	0.030	1	0.550	Naphthalene(pid)
2.032	62261	VV	0.083		622.606	* uncalibrated *
2.150	31033	VV	0.081		310.334	* uncalibrated *
2.497	70690	VV	0.138		706.898	* uncalibrated *
2.983	58000	VV	0.088		580.004	* uncalibrated *
3.177	90335	VV	0.148		903.353	* uncalibrated *
4.035	18189	VV	0.096		181.889	* uncalibrated *
4.484	33575	VV	0.138		335.746	* uncalibrated *
4.816	43684	VV	0.176		436.844	* uncalibrated *
5.062	13306	VV	0.098		133.061	* uncalibrated *
5.195	21258	VV	0.122		212.575	* uncalibrated *
5.456	13945	VV	0.117		139.452	* uncalibrated *
5.765	2323	PV	0.096		23.226	* uncalibrated *
6.060	60886	VV	0.140		608.857	* uncalibrated *
6.807	11525	VV	0.067		115.249	* uncalibrated *
6.977	16543	VV	0.098		165.431	* uncalibrated *
7.109	16136	VV	0.074		161.365	* uncalibrated *
7.276	28340	VV	0.071		283.396	* uncalibrated *
7.378	48691	VV	0.084		486.914	* uncalibrated *
7.518	25802	VV	0.094		258.024	* uncalibrated *
7.783	14750	VV	0.085		147.495	* uncalibrated *
8.365	11759	VV	0.085		117.586	* uncalibrated *
8.455	5486	VV	0.051		54.861	* uncalibrated *
9.196	1500	VV	0.036		15.004	* uncalibrated *
9.258	7564	VV	0.038		75.638	* uncalibrated *
9.467	23274	VV	0.028		232.743	* uncalibrated *
9.523	185628	VV	0.052		1856.284	* uncalibrated *
9.685	28694	VV	0.035		286.936	* uncalibrated *
9.885	4689	VV	0.050		46.894	* uncalibrated *
10.004	29127	VV	0.032		291.274	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp072505\012R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : lcs4072505b
ın Time Bar Code:
ɜquired on : 25 Jul 05 03:03 PM
ɜport Created on: 25 Jul 05 03:16 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.107	56973	VV	0.051	569.732	* uncalibrated *
10.176	20174	VV	0.045	201.739	* uncalibrated *
10.268	20694	VV	0.041	206.939	* uncalibrated *
10.317	21392	VV	0.037	213.915	* uncalibrated *
10.394	4740	VV	0.041	47.396	* uncalibrated *
10.441	4197	VV	0.035	41.967	* uncalibrated *
10.555	41377	VV	0.075	413.766	* uncalibrated *
10.640	3931	VV	0.038	39.308	* uncalibrated *
10.757	21892	VV	0.065	218.916	* uncalibrated *
10.849	10161	VV	0.036	101.606	* uncalibrated *
10.969	10883	VV	0.064	108.829	* uncalibrated *
11.036	7230	VV	0.092	72.301	* uncalibrated *
11.262	2321	VV	0.055	23.205	* uncalibrated *
11.347	2933	VV	0.047	29.327	* uncalibrated *
11.478	5542	VV	0.079	55.422	* uncalibrated *
11.758	6058	VV	0.036	60.585	* uncalibrated *
11.902	1671	VV	0.032	16.714	* uncalibrated *
12.352	409	VBA	0.036	4.093	* uncalibrated *

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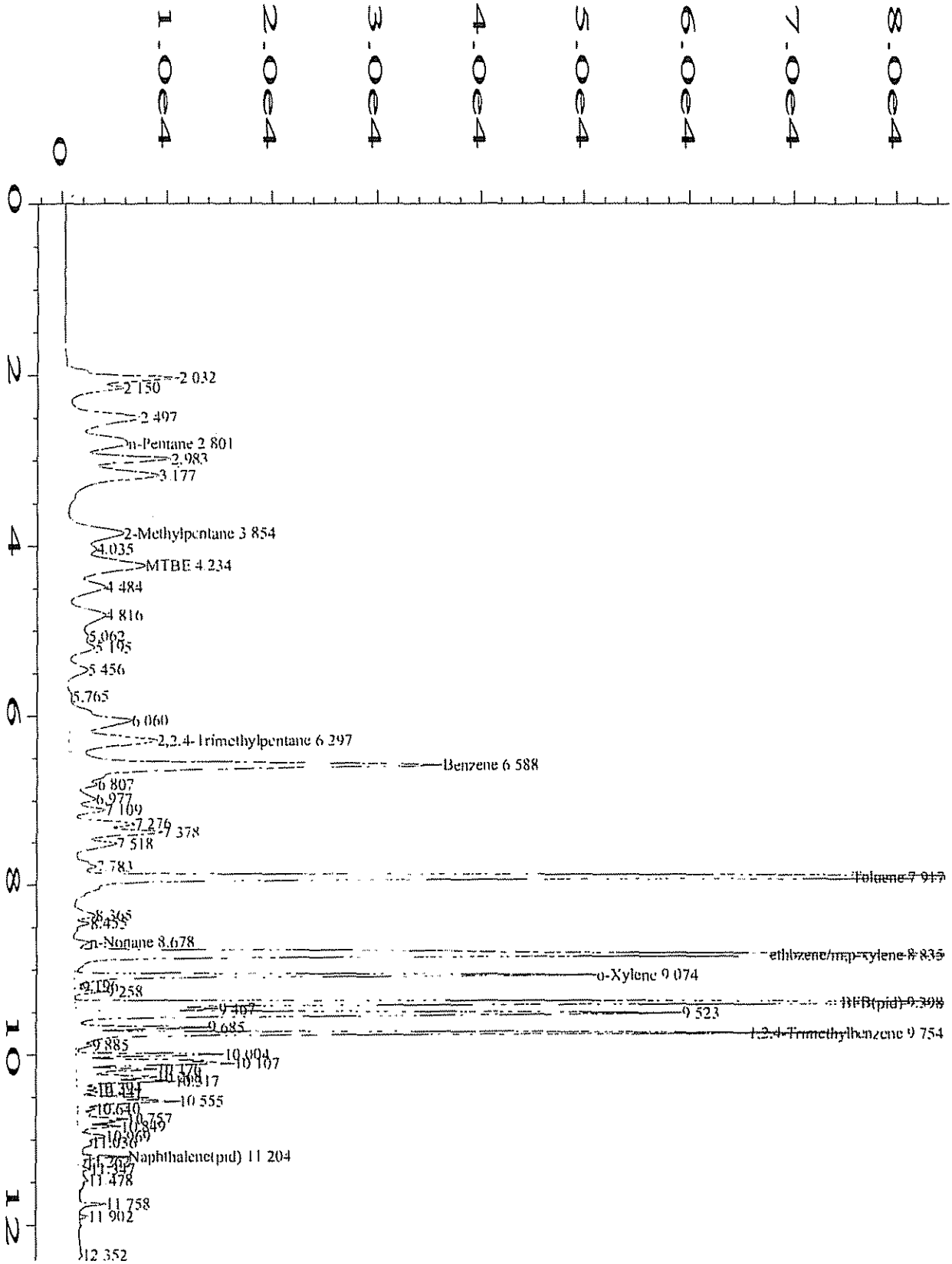

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nstrument	: FID/PID	Vial Number	: 12
ample Name	: lcs4072505b	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 03:03 PM	Instrument Method:	GAS1.MTH
eport Created on:	25 Jul 05 03:16 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

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External Standard Report

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ta File Name : C:\HPCHEM\1\DATA\vp072505\014F0101.D
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quired on : 25 Jul 05 03:57 PM
port Created on: 26 Jul 05 07:56 AM
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ltiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp072505\014F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.760	46232	BV	0.084	1	46.114	n-Pentane
3.889	92099	VV	0.106	1	16.358	2-Methylpentane
4.194	61297	VV	0.152	1	143.690	MTBE
6.294	56673	VV	0.113	1	10.885	2,2,4-Trimethylpentane
6.585	66343	VV	0.087	1	8.408	Benzene
7.916	213684	VV	0.040	1	22.683	Toluene
8.675	8453	VV	0.049	1	2.121	n-Nonane
8.834	203405	VV	0.040	1	19.884	EBenz, m-,p-Xylene
9.073	71674	VV	0.047	1	7.116	o-Xylene
9.396	88243	PV	0.030	1	339.913	BFB
9.754	89587	VV	0.051	1	9.535	1,2,4-Trimethylbenzene
11.203	4281	VV	0.031	1	1.010	Naphthalene
2.991	17275	PV	0.070		172.749	* uncalibrated *
3.190	20884	PV	0.081		208.843	* uncalibrated *
3.709	1693	PV	0.035		16.929	* uncalibrated *
4.514	35082	VV	0.107		350.819	* uncalibrated *
4.832	24424	PV	0.169		244.240	* uncalibrated *
5.079	14282	VV	0.118		142.824	* uncalibrated *
5.203	12209	VV	0.106		122.093	* uncalibrated *
5.459	24864	VV	0.106		248.638	* uncalibrated *
5.776	1892	PV	0.090		18.920	* uncalibrated *
5.944	20952	VV	0.086		209.523	* uncalibrated *
6.070	50951	VV	0.123		509.513	* uncalibrated *
6.725	9736	VV	0.073		97.355	* uncalibrated *
6.814	8133	VV	0.065		81.326	* uncalibrated *
6.971	18668	VV	0.107		186.682	* uncalibrated *
7.110	13054	VV	0.072		130.544	* uncalibrated *
7.273	24544	VV	0.072		245.435	* uncalibrated *
7.380	39179	VV	0.076		391.786	* uncalibrated *
7.516	23645	VV	0.089		236.451	* uncalibrated *
7.786	15390	VV	0.064		153.896	* uncalibrated *
8.050	8532	VV	0.114		85.321	* uncalibrated *
8.223	6034	VV	0.037		60.342	* uncalibrated *
8.372	13118	VV	0.063		131.176	* uncalibrated *
8.453	5840	VV	0.044		58.403	* uncalibrated *
9.197	2597	VV	0.036		25.967	* uncalibrated *
9.257	5428	VV	0.038		54.283	* uncalibrated *
9.521	107527	VV	0.053		1075.268	* uncalibrated *
9.685	19439	VV	0.035		194.386	* uncalibrated *
9.890	3262	VV	0.051		32.618	* uncalibrated *
10.003	19136	VV	0.032		191.364	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp072505\014F0101.D
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mple Name : g161-2077-1a ms
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quired on : 25 Jul 05 03:57 PM
port Created on: 26 Jul 05 07:56 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.107	33188	VV	0.052	331.884	* uncalibrated *
10.176	12057	VV	0.044	120.574	* uncalibrated *
10.268	12877	VV	0.048	128.769	* uncalibrated *
10.317	15676	VV	0.039	156.764	* uncalibrated *
10.393	3485	VV	0.039	34.854	* uncalibrated *
10.441	2510	VV	0.033	25.105	* uncalibrated *
10.554	22624	VV	0.070	226.237	* uncalibrated *
10.640	2358	VV	0.041	23.580	* uncalibrated *
10.694	1935	VV	0.045	19.347	* uncalibrated *
10.757	10311	VV	0.056	103.112	* uncalibrated *
10.850	6202	VV	0.034	62.021	* uncalibrated *
10.967	5732	VV	0.061	57.316	* uncalibrated *
11.049	3075	VV	0.058	30.746	* uncalibrated *
11.758	1991	VV	0.032	19.910	* uncalibrated *
11.899	1035	VV	0.037	10.352	* uncalibrated *
12.091	1194	PV	0.045	11.945	* uncalibrated *

alibration table contains at least one peak with amt = 0

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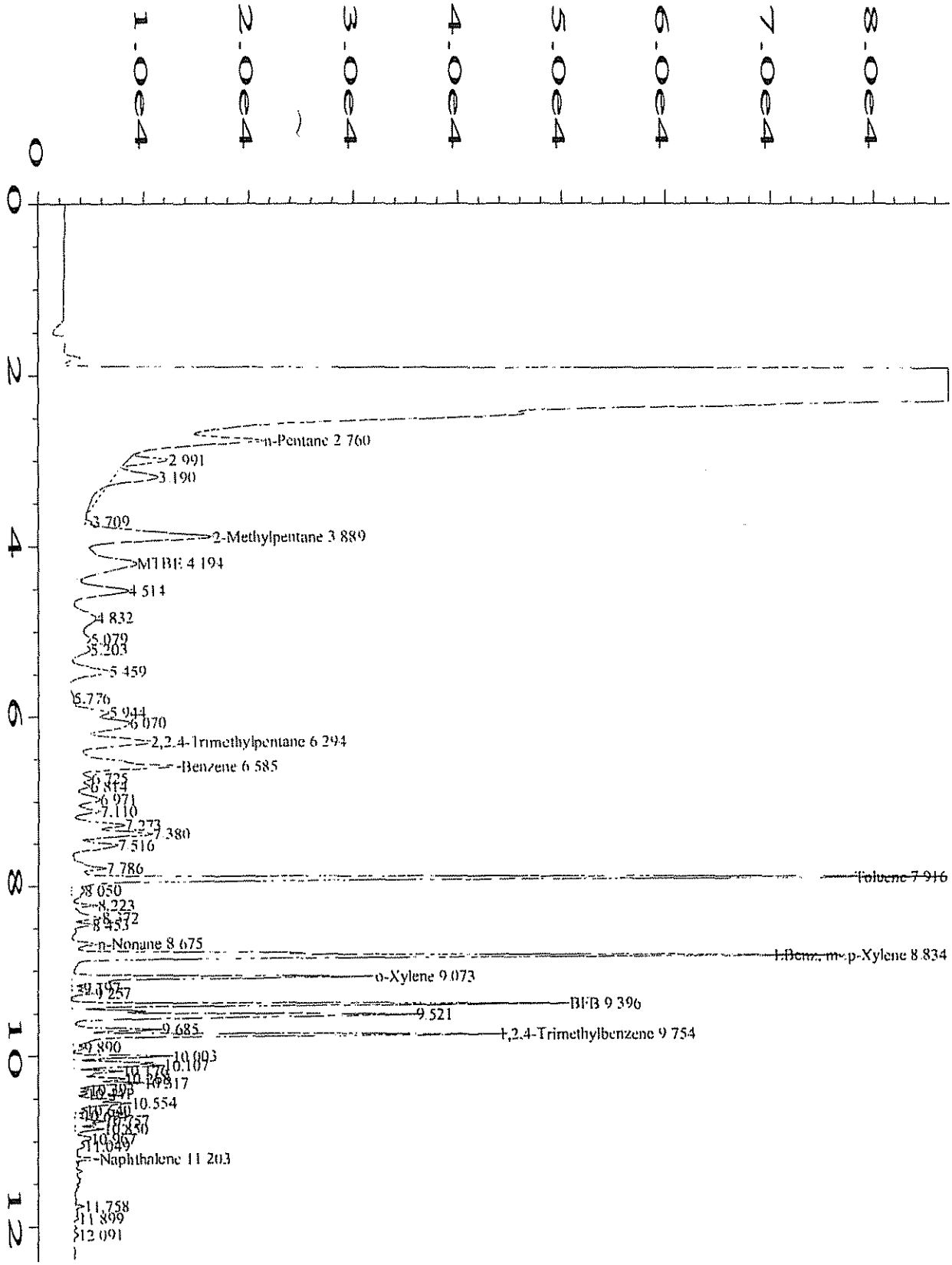

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Instrument	: FID/PID	Vial Number	: 14
Sample Name	: g161-2077-1a ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 03:57 PM	Instrument Method:	GAS1.MTH
Report Created on:	26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp072505\014R0101.D
erator : DCS
strument : FID/PID
mple Name : g161-2077-1a ms
n Time Bar Code:
quired on : 25 Jul 05 03:57 PM
port Created on: 26 Jul 05 07:56 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

g. 2 in C:\HPCHEM\1\DATA\vp072505\014R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.814	79447	VV	0.131	1	12.669	n-Pentane
3.901	86008	VV	0.132	1	9.108	2-Methylpentane
4.269	104051	VV	0.146	1	3.452	MTBE
6.305	75932	VV	0.129	1	4.990	2,2,4-Trimethylpentane
6.596	220204	VV	0.080	1	2.768	Benzene
7.920	561867	VV	0.045	1	13.770	Toluene
8.678	5312	PV	0.056	1	0.783	n-Nonane
8.836	441520	VV	0.042	1	13.053	ethbzene/m,p-xylene
9.074	124760	VV	0.037	1	3.221	o-Xylene
9.399	442748	VV	0.049	1	29.799	BFB(pid)
9.755	165300	VV	0.034	1	5.384	1,2,4-Trimethylbenzene
11.204	10672	VV	0.033	1	0.610	Naphthalene(pid)
1.808	1566	BV	0.053		15.659	* uncalibrated *
2.118	251869	VV	0.116		2518.685	* uncalibrated *
2.495	82487	VV	0.149		824.868	* uncalibrated *
3.001	79860	VV	0.089		798.601	* uncalibrated *
3.195	125285	VV	0.147		1252.852	* uncalibrated *
4.049	24722	VV	0.082		247.215	* uncalibrated *
4.501	41884	VV	0.139		418.842	* uncalibrated *
4.831	50131	VV	0.175		501.309	* uncalibrated *
5.077	15560	VV	0.096		155.599	* uncalibrated *
5.208	23778	VV	0.122		237.777	* uncalibrated *
5.471	16239	VV	0.118		162.388	* uncalibrated *
5.777	2326	PV	0.089		23.258	* uncalibrated *
6.068	66540	VV	0.140		665.405	* uncalibrated *
6.813	12688	VV	0.066		126.882	* uncalibrated *
6.983	17575	VV	0.096		175.746	* uncalibrated *
7.116	18954	VV	0.074		189.538	* uncalibrated *
7.281	29983	VV	0.071		299.831	* uncalibrated *
7.382	51414	VV	0.084		514.141	* uncalibrated *
7.523	25867	VV	0.092		258.669	* uncalibrated *
7.785	15282	VV	0.083		152.817	* uncalibrated *
8.226	6812	VV	0.045		68.124	* uncalibrated *
8.366	12652	VV	0.082		126.523	* uncalibrated *
8.455	5320	VV	0.048		53.197	* uncalibrated *
9.199	2207	VV	0.038		22.070	* uncalibrated *
9.258	8290	VV	0.040		82.901	* uncalibrated *
9.523	188112	VV	0.052		1881.121	* uncalibrated *
9.685	30458	VV	0.039		304.576	* uncalibrated *
9.889	6240	VV	0.057		62.398	* uncalibrated *
10.004	30523	VV	0.033		305.232	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp072505\014R0101.D
erator : DCS
strument : FID/PID
mple Name : g161-2077-1a ms
n Time Bar Code:
quired on : 25 Jul 05 03:57 PM
port Created on: 26 Jul 05 07:56 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.108	56520	VV	0.052	565.196	* uncalibrated *
10.176	20664	VV	0.038	206.642	* uncalibrated *
10.269	20628	VV	0.041	206.283	* uncalibrated *
10.317	22406	VV	0.039	224.062	* uncalibrated *
10.394	5175	VV	0.041	51.750	* uncalibrated *
10.442	4410	VV	0.036	44.101	* uncalibrated *
10.555	39947	VV	0.075	399.469	* uncalibrated *
10.640	3941	VV	0.039	39.409	* uncalibrated *
10.697	3521	VV	0.048	35.208	* uncalibrated *
10.757	17454	VV	0.057	174.537	* uncalibrated *
10.849	10069	VV	0.037	100.689	* uncalibrated *
10.968	10568	VV	0.064	105.676	* uncalibrated *
11.036	2577	VV	0.034	25.770	* uncalibrated *
11.059	3742	VV	0.050	37.422	* uncalibrated *
11.262	2328	VV	0.054	23.281	* uncalibrated *
11.348	3018	VV	0.044	30.176	* uncalibrated *
11.476	4939	VV	0.082	49.387	* uncalibrated *
11.758	4451	VV	0.033	44.512	* uncalibrated *
11.836	2705	VV	0.049	27.050	* uncalibrated *
11.899	2474	VV	0.045	24.737	* uncalibrated *
12.089	1992	PV	0.042	19.923	* uncalibrated *
12.283	645	PV	0.050	6.450	* uncalibrated *

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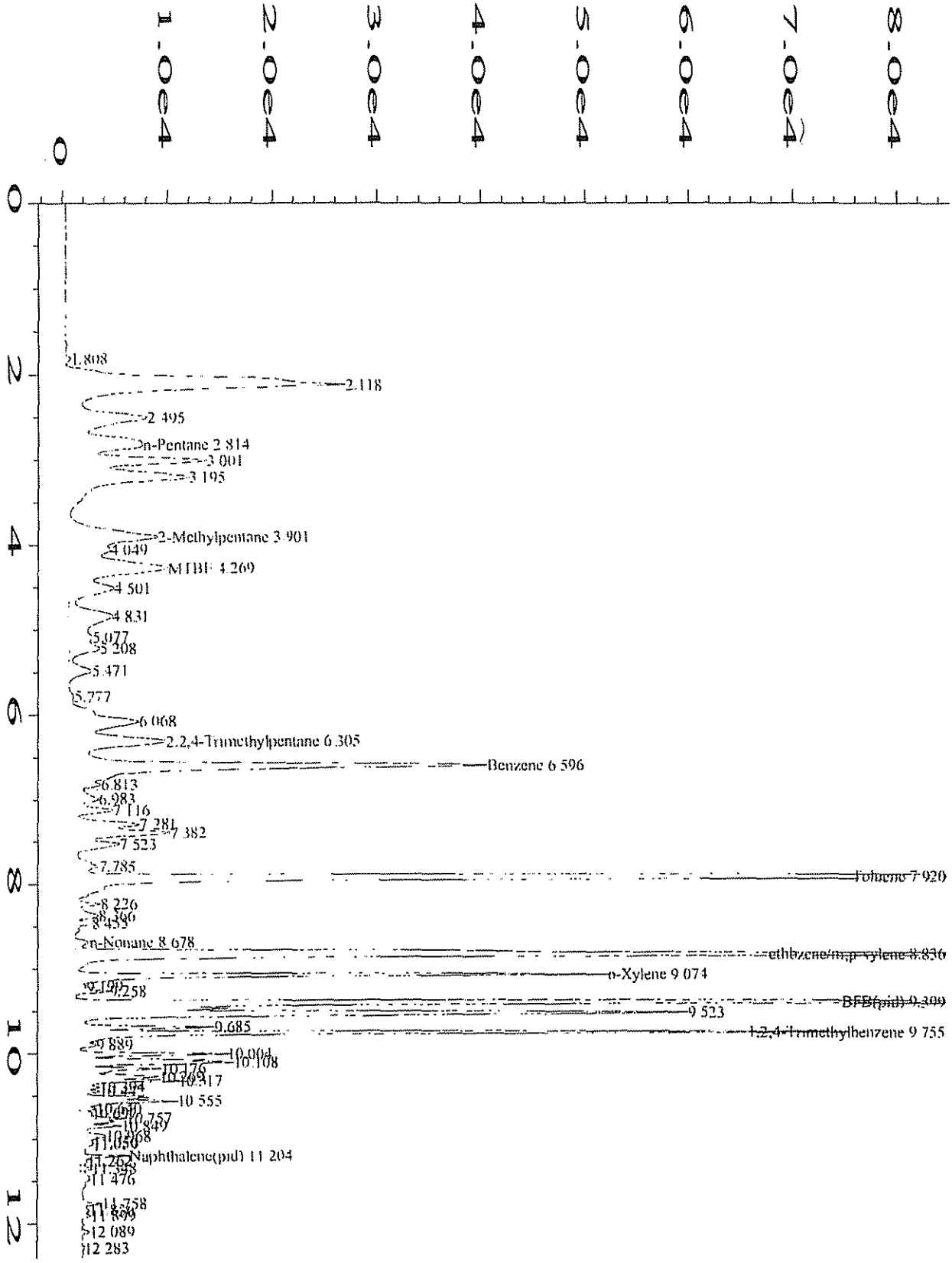


Data File Name	: C:\HPCHEM\1\DATA\vp072505\014R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 14
Sample Name	: g161-2077-1a ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Jul 05 03:57 PM	Instrument Method	: GAS1.MTH
Report Created on	: 26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp072505\015F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2077-1a msd
un Time Bar Code:
cquired on : 25 Jul 05 04:22 PM
eport Created on: 26 Jul 05 07:56 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp072505\015F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.759	50611	BV	0.086	1	50.482	n-Pentane
3.893	94603	VV	0.109	1	16.803	2-Methylpentane
4.199	65369	VV	0.162	1	153.234	MTBE
6.296	59927	VV	0.114	1	11.510	2,2,4-Trimethylpentane
6.587	68474	VV	0.088	1	8.678	Benzene
7.917	216296	VV	0.040	1	22.960	Toluene
8.676	8721	VV	0.050	1	2.188	n-Nonane
8.835	207524	VV	0.040	1	20.286	EBenz, m-,p-Xylene
9.074	72911	VV	0.037	1	7.239	o-Xylene
9.397	91289	PV	0.030	1	351.644	BFB
9.755	91704	VV	0.033	1	9.760	1,2,4-Trimethylbenzene
11.204	6749	VV	0.038	1	1.592	Naphthalene
2.991	18506	PV	0.071		185.058	* uncalibrated *
3.191	22195	PV	0.086		221.951	* uncalibrated *
3.724	3175	PV	0.043		31.748	* uncalibrated *
4.519	35313	VV	0.107		353.133	* uncalibrated *
4.836	24816	PV	0.171		248.162	* uncalibrated *
5.083	14315	VV	0.117		143.149	* uncalibrated *
5.206	12553	VV	0.107		125.527	* uncalibrated *
5.463	25661	VV	0.106		256.611	* uncalibrated *
5.778	1947	PV	0.091		19.466	* uncalibrated *
5.947	21362	VV	0.085		213.622	* uncalibrated *
6.072	51799	VV	0.127		517.991	* uncalibrated *
6.726	10070	VV	0.073		100.698	* uncalibrated *
6.815	8286	VV	0.065		82.857	* uncalibrated *
6.971	19787	VV	0.107		197.865	* uncalibrated *
7.111	13408	VV	0.072		134.077	* uncalibrated *
7.274	25858	VV	0.073		258.577	* uncalibrated *
7.381	41844	VV	0.077		418.439	* uncalibrated *
7.516	25828	VV	0.090		258.279	* uncalibrated *
7.787	16363	VV	0.064		163.631	* uncalibrated *
8.049	9248	VV	0.115		92.484	* uncalibrated *
8.224	5776	VV	0.037		57.759	* uncalibrated *
8.372	14164	VV	0.063		141.636	* uncalibrated *
8.453	6472	VV	0.046		64.716	* uncalibrated *
9.198	2625	VV	0.036		26.251	* uncalibrated *
9.258	5535	VV	0.038		55.353	* uncalibrated *
9.522	110166	VV	0.047		1101.662	* uncalibrated *
9.685	19982	VV	0.038		199.825	* uncalibrated *
9.890	3617	VV	0.052		36.168	* uncalibrated *
10.004	19932	VV	0.033		199.318	* uncalibrated *

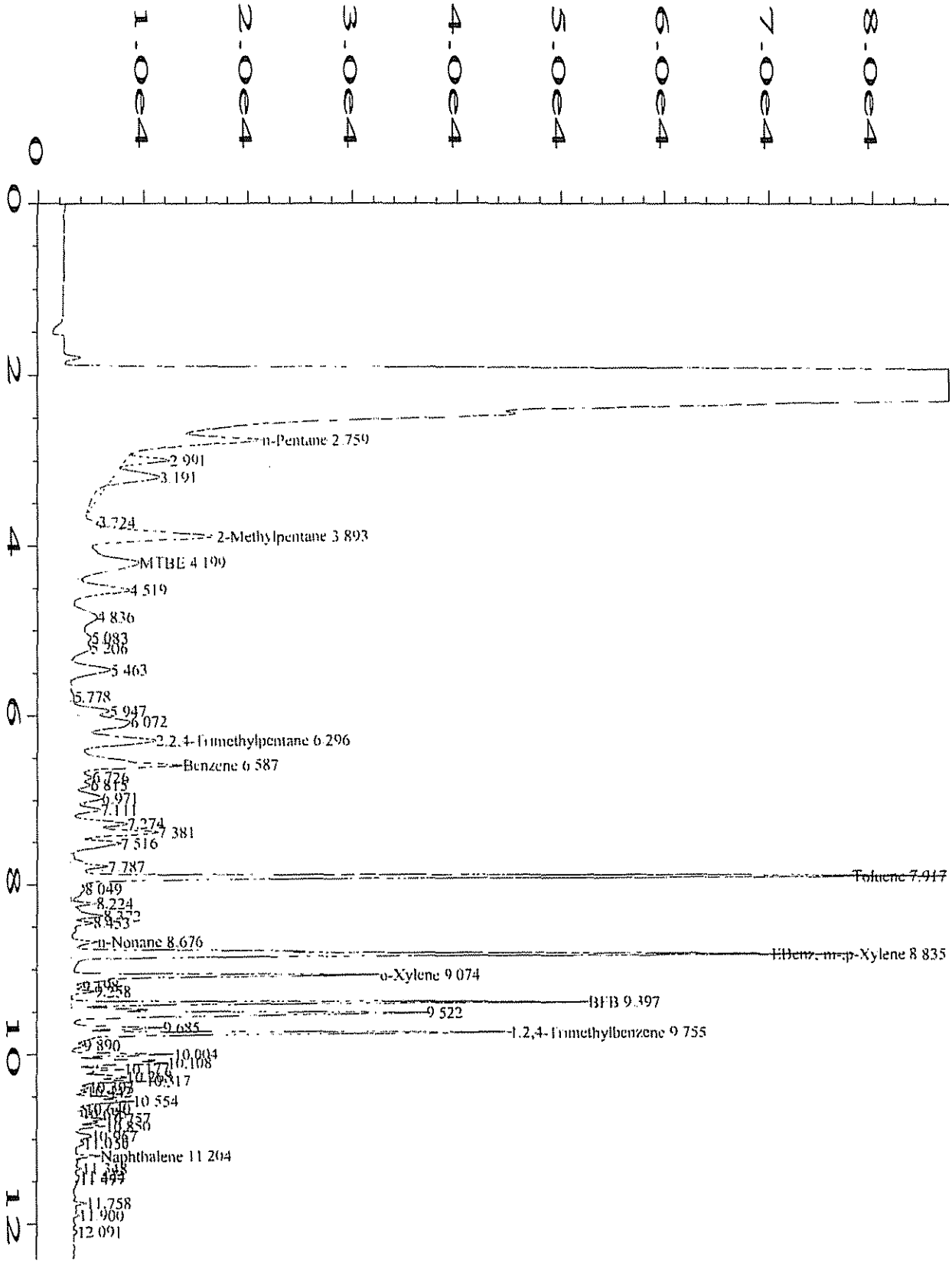
ıta File Name : C:\HPCHEM\1\DATA\vp072505\015F0101.D
)erator : DCS
ıstrument : FID/PID
ımple Name : g161-2077-1a msd
ın Time Bar Code:
:quired on : 25 Jul 05 04:22 PM
ɜport Created on: 26 Jul 05 07:56 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.108	35111	VV	0.052	351.107	* uncalibrated *
10.177	13003	VV	0.044	130.031	* uncalibrated *
10.268	13911	VV	0.041	139.105	* uncalibrated *
10.317	16779	VV	0.039	167.793	* uncalibrated *
10.393	4007	VV	0.040	40.073	* uncalibrated *
10.442	3018	VV	0.035	30.182	* uncalibrated *
10.554	25458	VV	0.071	254.585	* uncalibrated *
10.640	2995	VV	0.042	29.952	* uncalibrated *
10.695	2626	VV	0.046	26.264	* uncalibrated *
10.757	12407	VV	0.058	124.065	* uncalibrated *
10.850	7718	VV	0.037	77.185	* uncalibrated *
10.967	7655	VV	0.064	76.553	* uncalibrated *
11.050	4681	VV	0.071	46.807	* uncalibrated *
11.348	2435	VV	0.039	24.353	* uncalibrated *
11.444	2361	VV	0.056	23.608	* uncalibrated *
11.477	1220	VV	0.032	12.198	* uncalibrated *
11.758	2880	VV	0.033	28.797	* uncalibrated *
11.900	1507	VV	0.039	15.067	* uncalibrated *
12.091	1116	PV	0.045	11.163	* uncalibrated *

:alibration table contains at least one peak with amt = 0

:==========



ata File Name	: C:\HPCHEM\1\DATA\vp072505\015F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 15
ample Name	: g161-2077-1a msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 04:22 PM	Instrument Method	: GAS1.MTH
eport Created on	: 26 Jul 05 07:56 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp072505\015R0101.D
erator : DCS
istrument : FID/PID
mple Name : g161-2077-1a msd
n Time Bar Code:
quired on : 25 Jul 05 04:22 PM
port Created on: 26 Jul 05 07:56 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

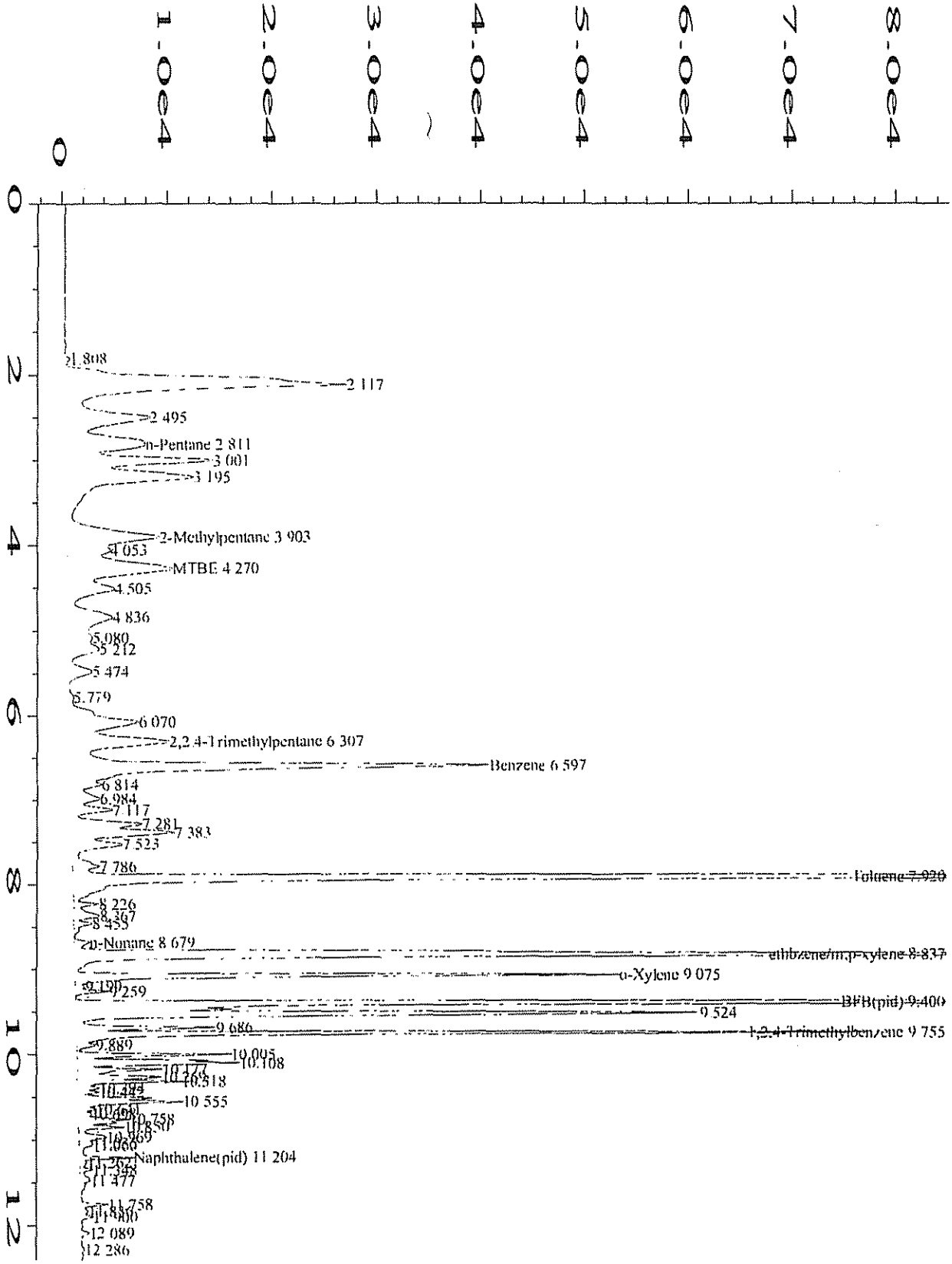
g. 2 in C:\HPCHEM\1\DATA\vp072505\015R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.811	82747	VV	0.143	1	13.195	n-Pentane
3.903	87150	VV	0.133	1	9.229	2-Methylpentane
4.270	107752	VV	0.149	1	3.575	MTBE
6.307	78958	VV	0.129	1	5.189	2,2,4-Trimethylpentane
6.597	221661	VV	0.081	1	2.786	Benzene
7.920	563677	VV	0.045	1	13.814	Toluene
8.679	5562	PV	0.063	1	0.819	n-Nonane
8.837	447226	VV	0.042	1	13.222	ethbzene/m,p-xylene
9.075	126203	VV	0.037	1	3.258	o-Xylene
9.400	459363	PV	0.049	1	30.917	BFB(pid)
9.755	167732	VV	0.034	1	5.463	1,2,4-Trimethylbenzene
11.204	11076	VV	0.032	1	0.633	Naphthalene(pid)
1.808	1601	BV	0.052		16.006	* uncalibrated *
2.117	252159	VV	0.116		2521.590	* uncalibrated *
2.495	84996	VV	0.143		849.956	* uncalibrated *
3.001	83636	VV	0.091		836.356	* uncalibrated *
3.195	133251	VV	0.149		1332.512	* uncalibrated *
4.053	25356	VV	0.088		253.559	* uncalibrated *
4.505	42408	VV	0.146		424.077	* uncalibrated *
4.836	49846	VV	0.176		498.464	* uncalibrated *
5.080	15322	VV	0.100		153.217	* uncalibrated *
5.212	24759	VV	0.121		247.590	* uncalibrated *
5.474	16589	VV	0.118		165.892	* uncalibrated *
5.779	2294	PV	0.089		22.938	* uncalibrated *
6.070	66428	VV	0.138		664.281	* uncalibrated *
6.814	12923	VV	0.066		129.234	* uncalibrated *
6.984	18446	VV	0.098		184.457	* uncalibrated *
7.117	19186	VV	0.074		191.860	* uncalibrated *
7.281	31325	VV	0.071		313.247	* uncalibrated *
7.383	54131	VV	0.084		541.313	* uncalibrated *
7.523	27878	VV	0.093		278.781	* uncalibrated *
7.786	15870	VV	0.083		158.695	* uncalibrated *
8.226	6511	VV	0.046		65.115	* uncalibrated *
8.367	13413	VV	0.083		134.133	* uncalibrated *
8.455	5824	VV	0.049		58.235	* uncalibrated *
9.199	2139	VV	0.038		21.391	* uncalibrated *
9.259	8227	VV	0.042		82.272	* uncalibrated *
9.524	188035	VV	0.052		1880.348	* uncalibrated *
9.686	30656	VV	0.038		306.562	* uncalibrated *
9.889	5952	VV	0.055		59.523	* uncalibrated *
10.005	30790	VV	0.033		307.902	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp072505\015R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : g161-2077-1a msd
ın Time Bar Code:
:quired on : 25 Jul 05 04:22 PM
ɜport Created on: 26 Jul 05 07:56 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.108	58203	VV	0.052	582.034	* uncalibrated *
10.177	21020	VV	0.038	210.205	* uncalibrated *
10.269	21205	VV	0.041	212.046	* uncalibrated *
10.318	22976	VV	0.038	229.758	* uncalibrated *
10.394	5114	VV	0.041	51.141	* uncalibrated *
10.442	4319	VV	0.035	43.186	* uncalibrated *
10.555	41864	VV	0.074	418.643	* uncalibrated *
10.641	3925	VV	0.038	39.246	* uncalibrated *
10.698	3506	VV	0.048	35.059	* uncalibrated *
10.758	18421	VV	0.057	184.212	* uncalibrated *
10.850	10326	VV	0.036	103.256	* uncalibrated *
10.969	10934	VV	0.064	109.336	* uncalibrated *
11.035	2527	VV	0.033	25.266	* uncalibrated *
11.060	3697	VV	0.049	36.973	* uncalibrated *
11.262	2263	VV	0.054	22.626	* uncalibrated *
11.348	3025	VV	0.042	30.249	* uncalibrated *
11.477	4748	VV	0.076	47.480	* uncalibrated *
11.758	5466	VV	0.032	54.664	* uncalibrated *
11.836	2346	VV	0.048	23.463	* uncalibrated *
11.900	2931	VV	0.039	29.309	* uncalibrated *
12.089	1903	PV	0.042	19.034	* uncalibrated *
12.286	827	VV	0.057	8.266	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp072505\015R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 15
ample Name	: g161-2077-1a msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Jul 05 04:22 PM	Instrument Method:	GAS1.MTH
eport Created on:	26 Jul 05 07:56 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

VPH Prep, Standard, Run Logs

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	b	7/25/05 8:21				DCS		
002F0101.D	V 500	7/25/05 8:47				DCS		
003F0101.D	b	7/25/05 9:12				DCS		
004F0101.D	G500	7/25/05 9:37				DCS		
005F0101.D	lcs4072505a	7/25/05 10:03				DCS		
006F0101.D	vblk4072505a	7/25/05 10:28				DCS		
007F0101.D	g161-2077-1a	7/25/05 10:53				DCS		
008F0101.D	g161-2077-1a ms	7/25/05 11:19				DCS		
009F0101.D	g161-2077-1a msd	7/25/05 11:44				DCS		
011F0101.D	G500	7/25/05 14:37				DCS		
012F0101.D	lcs4072505b	7/25/05 15:03				DCS		
013F0101.D	g161-2077-1a	7/25/05 15:32				DCS		
014F0101.D	g161-2077-1a ms	7/25/05 15:57				DCS		
015F0101.D	g161-2077-1a msd	7/25/05 16:22				DCS		
016F0101.D	g211-1835-3a x1	7/25/05 16:47				DCS		
017F0101.D	g211-1835-4a x1	7/25/05 17:12				DCS		
018F0101.D	g211-1835-5a x1	7/25/05 17:38				DCS		
019F0101.D	g510-237-7b x1	7/25/05 18:03				DCS		
020F0101.D	g510-238-1a x1	7/25/05 18:28				DCS		
021F0101.D	g161-2078-6a	7/25/05 18:54				DCS		

Analyst: _____

Page Number: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
022F0101.D	g161-2078-7a	7/25/05 19:19				DCS		
023F0101.D	g161-2078-8a	7/25/05 19:44				DCS		
024F0101.D	G161-2078-5A x100	7/25/05 20:09	cid= 143452			DCS		
025F0101.D	g161-2081-10b x1	7/25/05 20:34				DCS		
026F0101.D	g161-2081-1e x1	7/25/05 21:00				DCS		
027F0101.D	g161-2081-2e x1	7/25/05 21:25				DCS		
028F0101.D	g161-2081-3e x1	7/25/05 21:50				DCS		
029F0101.D	g161-2081-9e x1	7/25/05 22:15				DCS		
030F0101.D	g161-2083-1d x1	7/25/05 22:41				DCS		
031F0101.D	g161-2085-1d x1	7/25/05 23:06				DCS		
032F0101.D	g161-2079-1d x1	7/25/05 23:31				DCS		
033F0101.D	g161-2079-2d x1	7/25/05 23:56				DCS		
034F0101.D	b	7/26/05 0:21				DCS		
035F0101.D	G500	7/26/05 0:47				DCS		
036F0101.D	lcs4072505c	7/26/05 1:12				DCS		
037F0101.D	vblk4072505b	7/26/05 1:37				DCS		
038F0101.D	g510-236-1e x1	7/26/05 2:02				DCS		
039F0101.D	g510-236-1e ms	7/26/05 2:27				DCS		
040F0101.D	g510-236-1e msd	7/26/05 2:53				DCS		
041F0101.D	g510-236-2e x1	7/26/05 3:18				DCS		

Analyst: _____

Page Number: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp072505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
042F0101.D	g510-236-3e x1	7/26/05 3:43				DCS		
043F0101.D	g510-236-4e x1	7/26/05 4:08				DCS		
044F0101.D	g510-236-5e x1	7/26/05 4:33				DCS		
045F0101.D	g161-2079-3d x1	7/26/05 4:58				DCS		
046F0101.D	g161-2079-4d x1	7/26/05 5:23				DCS		
047F0101.D	g460-31-8b x1	7/26/05 5:49				DCS		
048F0101.D	g460-31-1d x1	7/26/05 6:14				DCS		
049F0101.D	g460-31-2d x1	7/26/05 6:39				DCS		
050F0101.D	g460-31-3d x1	7/26/05 7:04				DCS		
051F0101.D	g460-31-3e dup	7/26/05 7:29				DCS		

Analyst: _____

Page Number: _____

Volatiles Standard Logbook # 6 **Working Standard**

Paradigm Analytical

ID: VPH-QC-7-071405

referring page	Item	Lot Number	Components	Vendor	initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A029644	MA VPH	Restek	500-1500	1200	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 7/14/05

Expires: 2/14/06

Comments: _____

Notes:

Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier.

Page: _____

Metals Sample Raw Data

Analytical Sequence

Method : TALmethod

PSW

072705c

Seq.	Loc	Sample ID	Status
1	1	CalBlank	Applied
2	4	Std3 -High	Applied
3	5	Std4 -High	Applied
4	6	Std5 -High 0ES072605 1	Applied
5	3	Std2 -Mid	Applied
6	2	Std1 -Low	Applied
7	7	icv ✓	Analyzed
8	3	ccv1 ✓	Analyzed
9	1	ccb1 ✓	Analyzed
10	8	icsA1 ✓	Analyzed
11	9	icsB1 ✓	Analyzed
12	2	lowstd	Analyzed
13	10	pb3302 ✓	Analyzed
14	11	lcs3302 ✓	Analyzed
15	12	lcd3302 ✓	Analyzed
16	13	G161-2083-1K - Mn	Analyzed
17	14	G161-2083-1L ms - Mn	Analyzed
18	15	G161-2083-1M msd - Mn	Analyzed
19	3	ccv2 ✓	Analyzed
20	1	ccb2 ✓	Analyzed
21	16	G161-2083-2H	Analyzed
22	17	G128-1567-18K - Ca	Analyzed
23	18	G128-1567-19K	Analyzed
24	19	G128-1567-20K - Ca	Analyzed
25	20	G128-1567-21K	Analyzed
26	21	G128-1567-22K - Mn	Analyzed
27	22	G128-1567-23K - Ca	Analyzed
28	23	G128-1567-24K	Analyzed
29	24	G128-1567-25K - Mn	Analyzed
30	25	G128-1567-26K	Analyzed
31	3	ccv3 ✓	Analyzed
32	1	ccb3 ✓	Analyzed
33	26	G128-1568-1J	Analyzed
34	27	G128-1568-2J	Analyzed
35	28	G128-1568-3J	Analyzed
36	29	G128-1568-4J	Analyzed
37	30	G128-1568-5J	Analyzed
38	31	G128-1568-6J - Mn	Analyzed
39	32	G128-1568-7J	Analyzed
40	33	G128-1568-8J - Mn, Ca	Analyzed
41	34	G128-1568-9J	Analyzed
42	35	G128-1568-9K dup	Analyzed
43	3	ccv4 ✓	Analyzed
44	1	ccb4 ✓	Analyzed
45	36	G128-1567-1K x10	Analyzed
46	37	G128-1567-3K x10	Analyzed
47	38	G128-1567-8K x10	Analyzed
48	39	G128-1567-9K x10	Analyzed
49	40	G128-1567-12K x10	Analyzed
50	41	G128-1567-17K x10	Analyzed
51	42	G128-1567-17L dup x10	Analyzed
52	8	icsA2 ✓	Analyzed
53	9	icsB2 ✓	Analyzed
54	3	ccv5 ✓	Analyzed
55	1	ccb5 ✓	Analyzed

Analysis Begun

Start Time: 7/27/2005 03:53:57 PM
Logged In Analyst: Anyone
Spectrometer Model: Optima 2100

Plasma On Time: 7/27/2005 07:42:14 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Anyone\Sample Information\072705c.sif
Batch ID:
Results Data Set: 072705c
Results Library: C:\pe\Anyone\Results\Results.mdb

Sequence No.: 1
Sample ID: CalBlank
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/27/2005 03:53:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CalBlank

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: CalBlank

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	-51.4	23.46	45.63%	[0.00]	mg/L
Se 196	145.3	12.54	8.63%	[0.00]	mg/L
Cd 214	3188.7	25.22	0.79%	[0.00]	mg/L
Pb 220	863.8	49.62	5.74%	[0.00]	mg/L
Ba 234	-4056.0	120.06	2.96%	[0.00]	mg/L
Mn 258	-23266.6	1636.82	7.04%	[0.00]	mg/L
Fe 260	-13493.1	859.69	6.37%	[0.00]	mg/L
Cr 268	-3462.7	46.17	1.33%	[0.00]	mg/L
Mg 279	-116.3	42.15	36.24%	[0.00]	mg/L
Al 308	4213.9	68.46	1.62%	[0.00]	mg/L
Ca 318	1629.8	15.84	0.97%	[0.00]	mg/L
Ag 328	-3473.6	68.66	1.98%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Std3 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 7/27/2005 03:58:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std3 -High

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: Std3 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	5364.1	55.95	1.04%	[1]	mg/L
Se 196	6015.7	11.62	0.19%	[1]	mg/L
Cd 214	272470.6	981.26	0.36%	[1]	mg/L
Pb 220	20042.5	127.24	0.63%	[1]	mg/L
Ba 234	2220650.6	14388.19	0.65%	[5]	mg/L
Cr 268	337961.8	1459.66	0.43%	[1]	mg/L

Sequence No.: 3
Sample ID: Std4 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/27/2005 04:01:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std4 -High

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: Std4 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Mn 258	2309557.2	8181.43	0.35%	[1]	mg/L
Fe 260	449246.6	6385.91	1.42%	[5]	mg/L
Mg 279	38493.5	238.85	0.62%	[5]	mg/L
Al 308	105824.8	223.87	0.21%	[5]	mg/L
Ca 318	320921.3	1857.75	0.58%	[5]	mg/L

Sequence No.: 4
Sample ID: Std5 -High
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 7/27/2005 04:04:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std5 -High

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: Std5 -High

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328	744302.1	5384.58	0.72%	[1]	mg/L

Sequence No.: 5
Sample ID: Std2 -Mid
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/27/2005 04:06:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std2 -Mid

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: Std2 -Mid

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	2885.1	29.15	1.01%	[0.5]	mg/L
Se 196	3121.2	34.99	1.12%	[0.5]	mg/L
Cd 214	143654.8	542.03	0.38%	[0.5]	mg/L
Pb 220	10413.9	71.99	0.69%	[0.5]	mg/L
Ba 234	1140615.0	2192.18	0.19%	[2.5]	mg/L
Mn 258	1179180.5	6385.91	0.54%	[0.5]	mg/L
Fe 260	230996.3	2128.64	0.92%	[2.5]	mg/L
Cr 268	172014.1	277.95	0.16%	[0.5]	mg/L
Mg 279	19425.1	182.66	0.94%	[2.5]	mg/L
Al 308	52402.8	86.95	0.17%	[2.5]	mg/L
Ca 318	171171.6	1011.09	0.59%	[2.5]	mg/L
Ag 328	356943.1	592.99	0.17%	[0.5]	mg/L

Sequence No.: 6
Sample ID: Std1 -Low
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/27/2005 04:10:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Std1 -Low

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: Std1 -Low

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
As 189	22.9	3.74	16.29%	[0.01]	mg/L
Se 196	69.1	5.46	7.90%	[0.01]	mg/L
Cd 214	1520.9	83.23	5.47%	[0.005]	mg/L
Pb 220	244.1	9.85	4.04%	[0.01]	mg/L
Ba 234	43961.6	847.20	1.93%	[0.1]	mg/L
Mn 258	27234.9	692.37	2.54%	[0.01]	mg/L
Fe 260	6725.4	0.00	0.00%	[0.1]	mg/L
Cr 268	3063.8	398.09	12.99%	[0.01]	mg/L
Mg 279	761.1	23.39	3.07%	[0.1]	mg/L
Al 308	2130.0	68.46	3.21%	[0.1]	mg/L
Ca 318	7225.0	148.54	2.06%	[0.1]	mg/L
Ag 328	7131.6	158.66	2.22%	[0.01]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
As 189	3	Lin Thru 0	0.0	5445	0.00000	0.999542	
Se 196	3	Lin Thru 0	0.0	6061	0.00000	0.999887	
Cd 214	3	Lin Thru 0	0.0	275400	0.00000	0.999768	
Pb 220	3	Lin Thru 0	0.0	20200	0.00000	0.999877	
Ba 234	3	Lin Thru 0	0.0	446600	0.00000	0.999941	
Mn 258	3	Lin Thru 0	0.0	2319000	0.00000	0.999963	
Fe 260	3	Lin Thru 0	0.0	90350	0.00000	0.999926	
Cr 268	3	Lin Thru 0	0.0	339200	0.00000	0.999974	
Mg 279	3	Lin Thru 0	0.0	7713	0.00000	0.999993	
Al 308	3	Lin Thru 0	0.0	21120	0.00000	0.999993	
Ca 318	3	Lin Thru 0	0.0	65040	0.00000	0.999651	
Ag 328	3	Lin Thru 0	0.0	738200	0.00000	0.999864	

Sequence No.: 7
Sample ID: icv
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/27/2005 04:14:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icv

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: icv

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	5587.8	1.03	mg/L	0.003	1.03	mg/L	0.003	0.27%
Se 196	1515.4	0.249	mg/L	0.0003	0.249	mg/L	0.0003	0.14%
Cd 214	67430.5	0.245	mg/L	0.0006	0.245	mg/L	0.0006	0.23%
Pb 220	19807.0	0.980	mg/L	0.0054	0.980	mg/L	0.0054	0.55%
Ba 234	2214646.4	4.96	mg/L	0.051	4.96	mg/L	0.051	1.03%
Mn 258	2325737.9	1.00	mg/L	0.002	1.00	mg/L	0.002	0.19%
Fe 260	88381.1	0.978	mg/L	0.0177	0.978	mg/L	0.0177	1.81%
Cr 268	340815.4	1.00	mg/L	0.001	1.00	mg/L	0.001	0.11%
Mg 279	7279.0	0.944	mg/L	0.0274	0.944	mg/L	0.0274	2.90%
Al 308	104464.9	4.95	mg/L	0.049	4.95	mg/L	0.049	1.00%
Ca 318	332556.3	5.11	mg/L	0.016	5.11	mg/L	0.016	0.32%
Ag 328	68936.2	0.0934	mg/L	0.00034	0.0934	mg/L	0.00034	0.36%

Sequence No.: 8
Sample ID: ccv1
Analyst:

Autosampler Location: 3
Date Collected: 7/27/2005 04:19:00 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ccv1

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: ccv1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2734.7	0.503	mg/L	0.0029	0.503	mg/L	0.0029	0.57%
Se 196	2897.1	0.472	mg/L	0.0017	0.472	mg/L	0.0017	0.36%
Cd 214	131157.2	0.476	mg/L	0.0019	0.476	mg/L	0.0019	0.40%
Pb 220	9870.4	0.488	mg/L	0.0002	0.488	mg/L	0.0002	0.05%
Ba 234	1086040.7	2.43	mg/L	0.049	2.43	mg/L	0.049	2.03%
Mn 258	1133790.8	0.489	mg/L	0.0001	0.489	mg/L	0.0001	0.03%
Fe 260	219803.8	2.43	mg/L	0.013	2.43	mg/L	0.013	0.55%
Cr 268	164720.1	0.486	mg/L	0.0014	0.486	mg/L	0.0014	0.29%
Mg 279	18664.2	2.42	mg/L	0.002	2.42	mg/L	0.002	0.08%
Al 308	51157.3	2.42	mg/L	0.003	2.42	mg/L	0.003	0.13%
Ca 318	156020.5	2.40	mg/L	0.018	2.40	mg/L	0.018	0.76%
Ag 328	353425.7	0.479	mg/L	0.0007	0.479	mg/L	0.0007	0.15%

Sequence No.: 9 Autosampler Location: 1
Sample ID: ccb1 Date Collected: 7/27/2005 04:23:24 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: ccb1

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: ccb1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-17.6	-0.0032	mg/L	0.00027	-0.0032	mg/L	0.00027	8.28%
Se 196	9.0	0.0015	mg/L	0.00227	0.0015	mg/L	0.00227	154.10%
Cd 214	41.0	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	201.77%
Pb 220	34.0	0.0017	mg/L	0.00083	0.0017	mg/L	0.00083	49.31%
Ba 234	571.0	0.0013	mg/L	0.00067	0.0013	mg/L	0.00067	52.08%
Mn 258	3038.9	0.0013	mg/L	0.00023	0.0013	mg/L	0.00023	17.51%
Fe 260	-1176.8	-0.0130	mg/L	0.00589	-0.0130	mg/L	0.00589	45.22%
Cr 268	61.2	0.0002	mg/L	0.00039	0.0002	mg/L	0.00039	216.89%
Mg 279	22.7	0.0029	mg/L	0.00121	0.0029	mg/L	0.00121	41.19%
Al 308	227.3	0.0108	mg/L	0.00099	0.0108	mg/L	0.00099	9.19%
Ca 318	0.0	0.0000	mg/L	0.00432	0.0000	mg/L	0.00432	>999.9%
Ag 328	129.0	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	88.20%

Sequence No.: 10 Autosampler Location: 8
Sample ID: icsA1 Date Collected: 7/27/2005 04:27:43 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: icsA1

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: icsA1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-68.4	-0.0029	mg/L	0.00751	-0.0029	mg/L	0.00751	260.28%

Se 196	-288.1	0.0121 mg/L	0.00679	0.0121 mg/L	0.00679	56.22%
Cd 214	1229.5	-0.0008 mg/L	0.00112	-0.0008 mg/L	0.00112	144.19%
Pb 220	155.2	-0.0012 mg/L	0.00123	-0.0012 mg/L	0.00123	101.24%
Ba 234	-893.3	-0.0020 mg/L	0.00131	-0.0020 mg/L	0.00131	65.73%
Mn 258	3397.2	0.0015 mg/L	0.00000	0.0015 mg/L	0.00000	0.00%
Fe 260	8934988.6	98.9 mg/L	0.98	98.9 mg/L	0.98	0.99%
Cr 268	374.1	0.0011 mg/L	0.00026	0.0011 mg/L	0.00026	23.13%
Mg 279	302046.0	39.2 mg/L	0.14	39.2 mg/L	0.14	0.35%
Al 308	2106777.1	99.7 mg/L	0.07	99.7 mg/L	0.07	0.07%
Ca 318	2592758.7	39.9 mg/L	0.23	39.9 mg/L	0.23	0.59%
Ag 328	-1505.5	-0.0020 mg/L	0.00000	-0.0020 mg/L	0.00000	0.01%

Sequence No.: 11
Sample ID: icsB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 7/27/2005 04:32:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsB1

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: icsB1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1563.9	0.298	mg/L	0.0011	0.298	mg/L	0.0011	0.37%
Se 196	1424.7	0.289	mg/L	0.0012	0.289	mg/L	0.0012	0.42%
Cd 214	76615.5	0.273	mg/L	0.0003	0.273	mg/L	0.0003	0.10%
Pb 220	5912.8	0.284	mg/L	0.0018	0.284	mg/L	0.0018	0.63%
Ba 234	423208.0	0.948	mg/L	0.0067	0.948	mg/L	0.0067	0.71%
Mn 258	656756.0	0.283	mg/L	0.0005	0.283	mg/L	0.0005	0.19%
Fe 260	8755004.0	96.9	mg/L	0.27	96.9	mg/L	0.27	0.27%
Cr 268	96934.7	0.286	mg/L	0.0009	0.286	mg/L	0.0009	0.31%
Mg 279	301505.7	39.1	mg/L	0.17	39.1	mg/L	0.17	0.43%
Al 308	2064679.0	97.7	mg/L	0.44	97.7	mg/L	0.44	0.45%
Ca 318	2542887.7	39.1	mg/L	0.16	39.1	mg/L	0.16	0.40%
Ag 328	207534.7	0.281	mg/L	0.0006	0.281	mg/L	0.0006	0.21%

Sequence No.: 12
Sample ID: lowstd
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/27/2005 04:36:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lowstd

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: lowstd

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	19.6	0.0036	mg/L	0.00344	0.0036	mg/L	0.00344	95.96%
Se 196	66.5	0.0109	mg/L	0.00011	0.0109	mg/L	0.00011	1.01%
Cd 214	1161.8	0.0042	mg/L	0.00059	0.0042	mg/L	0.00059	14.01%
Pb 220	231.5	0.0115	mg/L	0.00232	0.0115	mg/L	0.00232	20.26%
Ba 234	43255.9	0.0969	mg/L	0.00153	0.0969	mg/L	0.00153	1.58%
Mn 258	26745.4	0.0115	mg/L	0.00000	0.0115	mg/L	0.00000	0.00%
Fe 260	7854.3	0.0869	mg/L	0.02945	0.0869	mg/L	0.02945	33.88%
Cr 268	3763.1	0.0111	mg/L	0.00139	0.0111	mg/L	0.00139	12.51%
Mg 279	745.1	0.0966	mg/L	0.00971	0.0966	mg/L	0.00971	10.05%
Al 308	2703.6	0.128	mg/L	0.0045	0.128	mg/L	0.0045	3.52%
Ca 318	7881.8	0.121	mg/L	0.0038	0.121	mg/L	0.0038	3.17%
Ag 328	7066.7	0.0096	mg/L	0.00009	0.0096	mg/L	0.00009	0.95%

Sequence No.: 13
Sample ID: pb3302
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 7/27/2005 04:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: pb3302

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: pb3302

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-0.4	-0.0001	mg/L	0.00694	-0.0001	mg/L	0.00694	>999.9%
Se 196	26.3	0.0043	mg/L	0.00357	0.0043	mg/L	0.00357	82.46%
Cd 214	-106.5	-0.0004	mg/L	0.00025	-0.0004	mg/L	0.00025	64.36%
Pb 220	11.3	0.0006	mg/L	0.00140	0.0006	mg/L	0.00140	250.42%
Ba 234	-125.2	-0.0003	mg/L	0.00163	-0.0003	mg/L	0.00163	579.85%
Mn 258	2286.3	0.0010	mg/L	0.00023	0.0010	mg/L	0.00023	23.28%
Fe 260	-897.3	-0.0099	mg/L	0.00000	-0.0099	mg/L	0.00000	0.00%
Cr 268	-188.7	-0.0006	mg/L	0.00014	-0.0006	mg/L	0.00014	25.24%
Mg 279	-33.9	-0.0044	mg/L	0.00056	-0.0044	mg/L	0.00056	12.86%
Al 308	416.8	0.0197	mg/L	0.01423	0.0197	mg/L	0.01423	72.13%
Ca 318	1959.2	0.0301	mg/L	0.00204	0.0301	mg/L	0.00204	6.77%
Ag 328	177.4	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	128.82%

Sequence No.: 14
Sample ID: lcs3302
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 7/27/2005 04:45:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcs3302

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: lcs3302

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2193.2	0.403	mg/L	0.0006	0.403	mg/L	0.0006	0.16%
Se 196	2291.5	0.374	mg/L	0.0023	0.374	mg/L	0.0023	0.60%
Cd 214	101286.9	0.368	mg/L	0.0010	0.368	mg/L	0.0010	0.28%
Pb 220	7671.5	0.380	mg/L	0.0018	0.380	mg/L	0.0018	0.47%
Ba 234	856236.0	1.92	mg/L	0.014	1.92	mg/L	0.014	0.74%
Mn 258	887554.1	0.383	mg/L	0.0002	0.383	mg/L	0.0002	0.06%
Fe 260	170789.4	1.89	mg/L	0.024	1.89	mg/L	0.024	1.25%
Cr 268	129837.8	0.383	mg/L	0.0031	0.383	mg/L	0.0031	0.81%
Mg 279	14573.7	1.89	mg/L	0.027	1.89	mg/L	0.027	1.41%
Al 308	40555.8	1.92	mg/L	0.011	1.92	mg/L	0.011	0.57%
Ca 318	121968.6	1.88	mg/L	0.029	1.88	mg/L	0.029	1.52%
Ag 328	275280.6	0.373	mg/L	0.0016	0.373	mg/L	0.0016	0.44%

Sequence No.: 15
Sample ID: lcd3302
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 7/27/2005 04:49:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: lcd3302

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: lcd3302

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2148.1	0.395	mg/L	0.0033	0.395	mg/L	0.0033	0.83%
Se 196	2320.4	0.379	mg/L	0.0009	0.379	mg/L	0.0009	0.24%
Cd 214	101156.1	0.367	mg/L	0.0020	0.367	mg/L	0.0020	0.54%
Pb 220	7713.1	0.382	mg/L	0.0029	0.382	mg/L	0.0029	0.77%
Ba 234	858059.1	1.92	mg/L	0.020	1.92	mg/L	0.020	1.02%
Mn 258	886426.3	0.382	mg/L	0.0018	0.382	mg/L	0.0018	0.48%
Fe 260	168251.6	1.86	mg/L	0.031	1.86	mg/L	0.031	1.66%
Cr 268	128533.1	0.379	mg/L	0.0039	0.379	mg/L	0.0039	1.03%
Mg 279	14696.9	1.91	mg/L	0.009	1.91	mg/L	0.009	0.48%
Al 308	40155.5	1.90	mg/L	0.019	1.90	mg/L	0.019	0.98%
Ca 318	119699.4	1.84	mg/L	0.016	1.84	mg/L	0.016	0.89%
Ag 328	273761.7	0.371	mg/L	0.0003	0.371	mg/L	0.0003	0.09%

Sequence No.: 16
Sample ID: G161-2083-1K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 7/27/2005 04:53:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2083-1K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G161-2083-1K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-6.9	-0.0012	mg/L	0.00435	-0.0012	mg/L	0.00435	350.69%
Se 196	69.0	0.0129	mg/L	0.00213	0.0129	mg/L	0.00213	16.55%
Cd 214	-80.7	-0.0004	mg/L	0.00017	-0.0004	mg/L	0.00017	40.08%
Pb 220	138.2	0.0066	mg/L	0.00453	0.0066	mg/L	0.00453	68.57%
Ba 234	103356.3	0.231	mg/L	0.0043	0.231	mg/L	0.0043	1.84%
Mn 258	3069518.3	1.32	mg/L	0.005	1.32	mg/L	0.005	0.41%
Fe 260	230273.2	2.55	mg/L	0.055	2.55	mg/L	0.055	2.15%
Cr 268	1477.5	0.0044	mg/L	0.00004	0.0044	mg/L	0.00004	0.85%
Mg 279	223292.6	29.0	mg/L	0.22	29.0	mg/L	0.22	0.77%
Al 308	38080.3	1.80	mg/L	0.012	1.80	mg/L	0.012	0.66%
Ca 318	4114755.1	63.3	mg/L	0.51	63.3	mg/L	0.51	0.81%
Ag 328	629.7	0.0009	mg/L	0.00086	0.0009	mg/L	0.00086	101.23%

Sequence No.: 17
Sample ID: G161-2083-1L ms
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 7/27/2005 04:58:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2083-1L ms

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G161-2083-1L ms

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2164.9	0.398	mg/L	0.0059	0.398	mg/L	0.0059	1.48%
Se 196	2251.7	0.369	mg/L	0.0043	0.369	mg/L	0.0043	1.15%
Cd 214	97107.6	0.352	mg/L	0.0004	0.352	mg/L	0.0004	0.12%
Pb 220	7701.9	0.381	mg/L	0.0035	0.381	mg/L	0.0035	0.92%
Ba 234	928343.0	2.08	mg/L	0.031	2.08	mg/L	0.031	1.47%
Mn 258	3909783.8	1.69	mg/L	0.007	1.69	mg/L	0.007	0.42%
Fe 260	375493.1	4.16	mg/L	0.000	4.16	mg/L	0.000	0.00%
Cr 268	126530.0	0.373	mg/L	0.0010	0.373	mg/L	0.0010	0.28%
Mg 279	233314.5	30.2	mg/L	0.22	30.2	mg/L	0.22	0.71%
Al 308	73633.6	3.49	mg/L	0.020	3.49	mg/L	0.020	0.57%
Ca 318	4170740.3	64.1	mg/L	0.03	64.1	mg/L	0.03	0.04%

Ag 328	269889.3	0.366 mg/L	0.0017	0.366 mg/L	0.0017	0.47%

Sequence No.: 18
Sample ID: G161-2083-1M msd
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 7/27/2005 05:02:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2083-1M msd

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G161-2083-1M msd

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2195.5	0.404	mg/L	0.0051	0.404	mg/L	0.0051	1.27%
Se 196	2356.7	0.386	mg/L	0.0082	0.386	mg/L	0.0082	2.13%
Cd 214	99413.4	0.361	mg/L	0.0022	0.361	mg/L	0.0022	0.60%
Pb 220	7857.6	0.389	mg/L	0.0091	0.389	mg/L	0.0091	2.33%
Ba 234	944101.8	2.11	mg/L	0.016	2.11	mg/L	0.016	0.77%
Mn 258	3968080.8	1.71	mg/L	0.006	1.71	mg/L	0.006	0.34%
Fe 260	379025.5	4.19	mg/L	0.000	4.19	mg/L	0.000	0.00%
Cr 268	129532.6	0.382	mg/L	0.0034	0.382	mg/L	0.0034	0.89%
Mg 279	234523.0	30.4	mg/L	0.21	30.4	mg/L	0.21	0.69%
Al 308	74271.8	3.52	mg/L	0.022	3.52	mg/L	0.022	0.62%
Ca 318	4192279.1	64.5	mg/L	0.24	64.5	mg/L	0.24	0.37%
Ag 328	277506.0	0.376	mg/L	0.0028	0.376	mg/L	0.0028	0.73%

Sequence No.: 19
Sample ID: ccv2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/27/2005 05:06:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv2

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: ccv2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2704.2	0.498	mg/L	0.0000	0.498	mg/L	0.0000	0.01%
Se 196	2952.9	0.482	mg/L	0.0056	0.482	mg/L	0.0056	1.17%
Cd 214	131508.2	0.477	mg/L	0.0042	0.477	mg/L	0.0042	0.89%
Pb 220	9834.8	0.487	mg/L	0.0031	0.487	mg/L	0.0031	0.64%
Ba 234	1076595.4	2.41	mg/L	0.029	2.41	mg/L	0.029	1.20%
Mn 258	1123489.1	0.484	mg/L	0.0032	0.484	mg/L	0.0032	0.66%
Fe 260	217710.8	2.41	mg/L	0.008	2.41	mg/L	0.008	0.32%
Cr 268	165752.2	0.489	mg/L	0.0003	0.489	mg/L	0.0003	0.05%
Mg 279	18548.1	2.40	mg/L	0.007	2.40	mg/L	0.007	0.30%
Al 308	51477.3	2.44	mg/L	0.010	2.44	mg/L	0.010	0.40%
Ca 318	155993.4	2.40	mg/L	0.019	2.40	mg/L	0.019	0.80%
Ag 328	352102.8	0.477	mg/L	0.0009	0.477	mg/L	0.0009	0.19%

Sequence No.: 20
Sample ID: ccb2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/27/2005 05:11:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb2

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccb2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-14.9	-0.0027	mg/L	0.00080	-0.0027	mg/L	0.00080	29.18%
Se 196	-8.5	-0.0014	mg/L	0.00531	-0.0014	mg/L	0.00531	374.56%
Cd 214	-138.8	-0.0005	mg/L	0.00137	-0.0005	mg/L	0.00137	271.88%
Pb 220	-8.4	-0.0004	mg/L	0.00097	-0.0004	mg/L	0.00097	235.23%
Ba 234	245.4	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	25.94%
Mn 258	2022.2	0.0009	mg/L	0.00039	0.0009	mg/L	0.00039	44.78%
Fe 260	-1553.0	-0.0172	mg/L	0.00000	-0.0172	mg/L	0.00000	0.00%
Cr 268	103.7	0.0003	mg/L	0.00100	0.0003	mg/L	0.00100	325.76%
Mg 279	-23.2	-0.0030	mg/L	0.00243	-0.0030	mg/L	0.00243	80.92%
Al 308	319.9	0.0151	mg/L	0.00127	0.0151	mg/L	0.00127	8.36%
Ca 318	458.0	0.0070	mg/L	0.00204	0.0070	mg/L	0.00204	28.98%
Ag 328	176.1	0.0002	mg/L	0.00031	0.0002	mg/L	0.00031	128.50%

Sequence No.: 21
Sample ID: G161-2083-2H
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 7/27/2005 05:15:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G161-2083-2H

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G161-2083-2H

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-26.2	-0.0035	mg/L	0.00019	-0.0035	mg/L	0.00019	5.32%
Se 196	6.8	0.0081	mg/L	0.00466	0.0081	mg/L	0.00466	57.61%
Cd 214	-32.3	-0.0007	mg/L	0.00008	-0.0007	mg/L	0.00008	10.65%
Pb 220	205.7	0.0091	mg/L	0.00117	0.0091	mg/L	0.00117	12.84%
Ba 234	80832.3	0.181	mg/L	0.0014	0.181	mg/L	0.0014	0.77%
Mn 258	680732.4	0.294	mg/L	0.0003	0.294	mg/L	0.0003	0.11%
Fe 260	1045017.1	11.6	mg/L	0.07	11.6	mg/L	0.07	0.59%
Cr 268	19408.1	0.0572	mg/L	0.00196	0.0572	mg/L	0.00196	3.42%
Mg 279	236763.7	30.7	mg/L	0.22	30.7	mg/L	0.22	0.71%
Al 308	138188.1	6.54	mg/L	0.008	6.54	mg/L	0.008	0.13%
Ca 318	3548222.3	54.6	mg/L	0.52	54.6	mg/L	0.52	0.95%
Ag 328	467.9	0.0006	mg/L	0.00012	0.0006	mg/L	0.00012	19.50%

Sequence No.: 22
Sample ID: G128-1567-18K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 7/27/2005 05:19:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-18K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-18K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	17.2	0.0050	mg/L	0.00114	0.0050	mg/L	0.00114	22.77%
Se 196	2.5	0.0131	mg/L	0.00181	0.0131	mg/L	0.00181	13.78%
Cd 214	197.0	-0.0004	mg/L	0.00058	-0.0004	mg/L	0.00058	143.65%
Pb 220	106.2	0.0034	mg/L	0.00355	0.0034	mg/L	0.00355	105.68%
Ba 234	83522.0	0.187	mg/L	0.0000	0.187	mg/L	0.0000	0.00%
Mn 258	1687291.1	0.727	mg/L	0.0028	0.727	mg/L	0.0028	0.39%
Fe 260	1905698.3	21.1	mg/L	0.12	21.1	mg/L	0.12	0.56%
Cr 268	267.6	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	50.12%

Mg 279	80196.0	10.4 mg/L	0.02	10.4 mg/L	0.02	0.19%
Al 308	713.1	0.0338 mg/L	0.00736	0.0338 mg/L	0.00736	21.80%
Ca 318	6819759.1	105 mg/L	0.6	105 mg/L	0.6	0.55%
Ag 328	-65.2	-0.0001 mg/L	0.00028	-0.0001 mg/L	0.00028	314.68%

Sequence No.: 23
Sample ID: G128-1567-19K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 7/27/2005 05:24:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-19K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-19K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-29.2	-0.0053	mg/L	0.00051	-0.0053	mg/L	0.00051	9.71%
Se 196	51.3	0.0092	mg/L	0.00288	0.0092	mg/L	0.00288	31.33%
Cd 214	-224.2	-0.0009	mg/L	0.00025	-0.0009	mg/L	0.00025	28.13%
Pb 220	122.3	0.0059	mg/L	0.00050	0.0059	mg/L	0.00050	8.48%
Ba 234	13985.5	0.0313	mg/L	0.00115	0.0313	mg/L	0.00115	3.66%
Mn 258	618909.1	0.267	mg/L	0.0002	0.267	mg/L	0.0002	0.09%
Fe 260	109405.1	1.21	mg/L	0.029	1.21	mg/L	0.029	2.37%
Cr 268	93.8	0.0003	mg/L	0.00053	0.0003	mg/L	0.00053	190.63%
Mg 279	326233.2	42.3	mg/L	0.25	42.3	mg/L	0.25	0.59%
Al 308	431.5	0.0204	mg/L	0.01149	0.0204	mg/L	0.01149	56.25%
Ca 318	2605304.9	40.1	mg/L	0.44	40.1	mg/L	0.44	1.10%
Ag 328	274.4	0.0004	mg/L	0.00043	0.0004	mg/L	0.00043	116.40%

Sequence No.: 24
Sample ID: G128-1567-20K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 7/27/2005 05:29:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-20K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-20K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	5.5	0.0024	mg/L	0.00018	0.0024	mg/L	0.00018	7.45%
Se 196	-6.2	0.0080	mg/L	0.00334	0.0080	mg/L	0.00334	41.86%
Cd 214	88.1	-0.0005	mg/L	0.00083	-0.0005	mg/L	0.00083	174.66%
Pb 220	185.8	0.0079	mg/L	0.00291	0.0079	mg/L	0.00291	37.13%
Ba 234	45874.2	0.103	mg/L	0.0006	0.103	mg/L	0.0006	0.58%
Mn 258	1741993.3	0.751	mg/L	0.0012	0.751	mg/L	0.0012	0.15%
Fe 260	1351320.0	15.0	mg/L	0.16	15.0	mg/L	0.16	1.09%
Cr 268	548.1	0.0016	mg/L	0.00156	0.0016	mg/L	0.00156	96.84%
Mg 279	57461.7	7.45	mg/L	0.076	7.45	mg/L	0.076	1.02%
Al 308	14229.6	0.674	mg/L	0.0009	0.674	mg/L	0.0009	0.13%
Ca 318	7263035.6	112	mg/L	0.7	112	mg/L	0.7	0.65%
Ag 328	258.3	0.0003	mg/L	0.00053	0.0003	mg/L	0.00053	150.69%

Sequence No.: 25
Sample ID: G128-1567-21K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 7/27/2005 05:33:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-21K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-21K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-38.3	-0.0057	mg/L	0.00138	-0.0057	mg/L	0.00138	24.22%
Se 196	0.6	0.0088	mg/L	0.00191	0.0088	mg/L	0.00191	21.63%
Cd 214	405.1	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.06%
Pb 220	127.3	0.0050	mg/L	0.00114	0.0050	mg/L	0.00114	22.75%
Ba 234	57804.4	0.129	mg/L	0.0042	0.129	mg/L	0.0042	3.23%
Mn 258	1780724.1	0.768	mg/L	0.0005	0.768	mg/L	0.0005	0.06%
Fe 260	1309108.3	14.5	mg/L	0.01	14.5	mg/L	0.01	0.06%
Cr 268	1922.9	0.0057	mg/L	0.00026	0.0057	mg/L	0.00026	4.50%
Mg 279	275111.8	35.7	mg/L	0.22	35.7	mg/L	0.22	0.61%
Al 308	5699.1	0.270	mg/L	0.0024	0.270	mg/L	0.0024	0.88%
Ca 318	4470444.6	68.7	mg/L	0.76	68.7	mg/L	0.76	1.11%
Ag 328	-80.9	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	111.32%

Sequence No.: 26
Sample ID: G128-1567-22K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 7/27/2005 05:38:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-22K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-22K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-32.8	-0.0036	mg/L	0.00460	-0.0036	mg/L	0.00460	127.86%
Se 196	-45.0	0.0080	mg/L	0.00445	0.0080	mg/L	0.00445	55.38%
Cd 214	384.2	0.0000	mg/L	0.00099	0.0000	mg/L	0.00099	>999.9%
Pb 220	147.3	0.0050	mg/L	0.00174	0.0050	mg/L	0.00174	34.97%
Ba 234	36250.0	0.0812	mg/L	0.00017	0.0812	mg/L	0.00017	0.21%
Mn 258	2461815.4	1.06	mg/L	0.009	1.06	mg/L	0.009	0.82%
Fe 260	2319487.5	25.7	mg/L	0.15	25.7	mg/L	0.15	0.60%
Cr 268	548.1	0.0016	mg/L	0.00078	0.0016	mg/L	0.00078	48.42%
Mg 279	293968.2	38.1	mg/L	0.22	38.1	mg/L	0.22	0.59%
Al 308	757.3	0.0359	mg/L	0.01088	0.0359	mg/L	0.01088	30.34%
Ca 318	5466841.5	84.0	mg/L	0.69	84.0	mg/L	0.69	0.82%
Ag 328	-98.7	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	116.75%

Sequence No.: 27
Sample ID: G128-1567-23K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 7/27/2005 05:42:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-23K

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-23K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	13.9	0.0042	mg/L	0.00267	0.0042	mg/L	0.00267	64.23%
Se 196	-20.2	0.0073	mg/L	0.00412	0.0073	mg/L	0.00412	56.84%
Cd 214	184.9	-0.0003	mg/L	0.00081	-0.0003	mg/L	0.00081	312.19%
Pb 220	84.3	0.0026	mg/L	0.00321	0.0026	mg/L	0.00321	124.12%
Ba 234	48121.4	0.108	mg/L	0.0006	0.108	mg/L	0.0006	0.57%

Mn 258	2131080.8	0.919 mg/L	0.0016	0.919 mg/L	0.0016	0.17%
Fe 260	1588549.7	17.6 mg/L	0.09	17.6 mg/L	0.09	0.50%
Cr 268	590.5	0.0017 mg/L	0.00053	0.0017 mg/L	0.00053	30.54%
Mg 279	35907.0	4.66 mg/L	0.007	4.66 mg/L	0.007	0.16%
Al 308	5404.5	0.256 mg/L	0.0026	0.256 mg/L	0.0026	1.03%
Ca 318	8769558.5	135 mg/L	1.5	135 mg/L	1.5	1.12%
Ag 328	-16.9	0.0000 mg/L	0.00037	0.0000 mg/L	0.00037	>999.9%

Sequence No.: 28
Sample ID: G128-1567-24K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 7/27/2005 05:47:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-24K

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-24K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-33.9	-0.0062	mg/L	0.00068	-0.0062	mg/L	0.00068	10.90%
Se 196	66.8	0.0110	mg/L	0.00046	0.0110	mg/L	0.00046	4.16%
Cd 214	-134.8	-0.0005	mg/L	0.00110	-0.0005	mg/L	0.00110	224.69%
Pb 220	13.6	0.0007	mg/L	0.00358	0.0007	mg/L	0.00358	533.36%
Ba 234	4561.6	0.0102	mg/L	0.00045	0.0102	mg/L	0.00045	4.42%
Mn 258	16209.1	0.0070	mg/L	0.00046	0.0070	mg/L	0.00046	6.57%
Fe 260	-47.9	-0.0005	mg/L	0.03534	-0.0005	mg/L	0.03534	>999.9%
Cr 268	351.6	0.0010	mg/L	0.00004	0.0010	mg/L	0.00004	3.57%
Mg 279	148076.4	19.2	mg/L	0.07	19.2	mg/L	0.07	0.37%
Al 308	3720.2	0.176	mg/L	0.0117	0.176	mg/L	0.0117	6.64%
Ca 318	606365.3	9.32	mg/L	0.039	9.32	mg/L	0.039	0.42%
Ag 328	33.5	0.0000	mg/L	0.00028	0.0000	mg/L	0.00028	613.64%

Sequence No.: 29
Sample ID: G128-1567-25K
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 7/27/2005 05:51:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-25K

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-25K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	100.2	0.0199	mg/L	0.00049	0.0199	mg/L	0.00049	2.47%
Se 196	-1.8	0.0088	mg/L	0.00372	0.0088	mg/L	0.00372	42.24%
Cd 214	163.1	-0.0002	mg/L	0.00026	-0.0002	mg/L	0.00026	125.87%
Pb 220	129.4	0.0050	mg/L	0.00432	0.0050	mg/L	0.00432	85.56%
Ba 234	11786.6	0.0264	mg/L	0.00134	0.0264	mg/L	0.00134	5.09%
Mn 258	7360345.6	3.17	mg/L	0.031	3.17	mg/L	0.031	0.98%
Fe 260	1368418.0	15.1	mg/L	0.31	15.1	mg/L	0.31	2.02%
Cr 268	1009.4	0.0030	mg/L	0.00121	0.0030	mg/L	0.00121	40.83%
Mg 279	275483.2	35.7	mg/L	0.24	35.7	mg/L	0.24	0.68%
Al 308	484.1	0.0229	mg/L	0.00324	0.0229	mg/L	0.00324	14.14%
Ca 318	3800421.8	58.4	mg/L	0.09	58.4	mg/L	0.09	0.15%
Ag 328	694.8	0.0009	mg/L	0.00050	0.0009	mg/L	0.00050	52.60%

Sequence No.: 30
Sample ID: G128-1567-26K
Analyst:
Initial Sample Wt:

Autosampler Location: 25
Date Collected: 7/27/2005 05:56:01 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Nebulizer Parameters: G128-1567-26K

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-26K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-19.4	-0.0036	mg/L	0.00082	-0.0036	mg/L	0.00082	22.93%
Se 196	77.6	0.0128	mg/L	0.00061	0.0128	mg/L	0.00061	4.76%
Cd 214	-8.0	0.0000	mg/L	0.00040	0.0000	mg/L	0.00040	>999.9%
Pb 220	10.4	0.0005	mg/L	0.00252	0.0005	mg/L	0.00252	498.40%
Ba 234	25897.3	0.0580	mg/L	0.00146	0.0580	mg/L	0.00146	2.51%
Mn 258	4656.3	0.0020	mg/L	0.00030	0.0020	mg/L	0.00030	14.84%
Fe 260	7854.3	0.0869	mg/L	0.01767	0.0869	mg/L	0.01767	20.33%
Cr 268	1759.0	0.0052	mg/L	0.00035	0.0052	mg/L	0.00035	6.83%
Mg 279	837.5	0.109	mg/L	0.0085	0.109	mg/L	0.0085	7.79%
Al 308	6341.5	0.300	mg/L	0.0065	0.300	mg/L	0.0065	2.16%
Ca 318	5321716.6	81.8	mg/L	1.15	81.8	mg/L	1.15	1.41%
Ag 328	339.3	0.0005	mg/L	0.00025	0.0005	mg/L	0.00025	54.12%

Sequence No.: 31
Sample ID: ccv3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/27/2005 06:00:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv3

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccv3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2727.6	0.502	mg/L	0.0018	0.502	mg/L	0.0018	0.35%
Se 196	2993.1	0.488	mg/L	0.0057	0.488	mg/L	0.0057	1.17%
Cd 214	130201.2	0.473	mg/L	0.0055	0.473	mg/L	0.0055	1.16%
Pb 220	9933.6	0.492	mg/L	0.0072	0.492	mg/L	0.0072	1.46%
Ba 234	1074803.7	2.41	mg/L	0.040	2.41	mg/L	0.040	1.68%
Mn 258	1133621.6	0.489	mg/L	0.0002	0.489	mg/L	0.0002	0.05%
Fe 260	219216.0	2.43	mg/L	0.019	2.43	mg/L	0.019	0.80%
Cr 268	165502.4	0.488	mg/L	0.0039	0.488	mg/L	0.0039	0.80%
Mg 279	18842.3	2.44	mg/L	0.027	2.44	mg/L	0.027	1.12%
Al 308	52032.8	2.46	mg/L	0.016	2.46	mg/L	0.016	0.65%
Ca 318	154304.5	2.37	mg/L	0.009	2.37	mg/L	0.009	0.40%
Ag 328	356185.0	0.482	mg/L	0.0003	0.482	mg/L	0.0003	0.06%

Sequence No.: 32
Sample ID: ccb3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/27/2005 06:04:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb3

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccb3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-20.0	-0.0037	mg/L	0.00022	-0.0037	mg/L	0.00022	5.97%
Se 196	-1.8	-0.0003	mg/L	0.00186	-0.0003	mg/L	0.00186	615.11%

Cd 214	-59.8	-0.0002 mg/L	0.00017	-0.0002 mg/L	0.00017	80.68%
Pb 220	64.9	0.0032 mg/L	0.00170	0.0032 mg/L	0.00170	52.89%
Ba 234	325.6	0.0007 mg/L	0.00130	0.0007 mg/L	0.00130	178.30%
Mn 258	1005.5	0.0004 mg/L	0.00023	0.0004 mg/L	0.00023	52.92%
Fe 260	-1553.0	-0.0172 mg/L	0.00000	-0.0172 mg/L	0.00000	0.00%
Cr 268	-187.7	-0.0006 mg/L	0.00065	-0.0006 mg/L	0.00065	116.82%
Mg 279	-10.4	-0.0013 mg/L	0.00598	-0.0013 mg/L	0.00598	444.39%
Al 308	374.2	0.0177 mg/L	0.00237	0.0177 mg/L	0.00237	13.35%
Ca 318	176.5	0.0027 mg/L	0.00408	0.0027 mg/L	0.00408	150.40%
Ag 328	113.8	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.07%

Sequence No.: 33
Sample ID: G128-1568-1J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 7/27/2005 06:08:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-1J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-1J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-20.9	-0.0040	mg/L	0.00515	-0.0040	mg/L	0.00515	129.13%
Se 196	32.0	0.0053	mg/L	0.00088	0.0053	mg/L	0.00088	16.62%
Cd 214	38.7	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.44%
Pb 220	24.5	0.0012	mg/L	0.00126	0.0012	mg/L	0.00126	103.87%
Ba 234	63500.9	0.142	mg/L	0.0031	0.142	mg/L	0.0031	2.16%
Mn 258	1197618.9	0.516	mg/L	0.0007	0.516	mg/L	0.0007	0.13%
Fe 260	144.7	0.0016	mg/L	0.01178	0.0016	mg/L	0.01178	735.56%
Cr 268	811.8	0.0024	mg/L	0.00196	0.0024	mg/L	0.00196	81.73%
Mg 279	20799.9	2.70	mg/L	0.020	2.70	mg/L	0.020	0.72%
Al 308	1233.9	0.0584	mg/L	0.00412	0.0584	mg/L	0.00412	7.05%
Ca 318	166717.2	2.56	mg/L	0.002	2.56	mg/L	0.002	0.07%
Ag 328	355.8	0.0005	mg/L	0.00071	0.0005	mg/L	0.00071	147.25%

Sequence No.: 34
Sample ID: G128-1568-2J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 7/27/2005 06:13:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-2J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-2J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-27.0	-0.0049	mg/L	0.00119	-0.0049	mg/L	0.00119	24.10%
Se 196	31.8	0.0055	mg/L	0.00117	0.0055	mg/L	0.00117	21.07%
Cd 214	-229.3	-0.0009	mg/L	0.00059	-0.0009	mg/L	0.00059	68.59%
Pb 220	79.0	0.0039	mg/L	0.00193	0.0039	mg/L	0.00193	49.91%
Ba 234	11388.7	0.0255	mg/L	0.00133	0.0255	mg/L	0.00133	5.21%
Mn 258	595173.0	0.257	mg/L	0.0005	0.257	mg/L	0.0005	0.18%
Fe 260	44239.5	0.490	mg/L	0.0018	0.490	mg/L	0.0018	0.37%
Cr 268	342.7	0.0010	mg/L	0.00078	0.0010	mg/L	0.00078	77.45%
Mg 279	8345.1	1.08	mg/L	0.004	1.08	mg/L	0.004	0.38%
Al 308	707.2	0.0335	mg/L	0.01170	0.0335	mg/L	0.01170	34.94%
Ca 318	38611.3	0.594	mg/L	0.0171	0.594	mg/L	0.0171	2.88%
Ag 328	532.5	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.04%

Sequence No.: 35 Autosampler Location: 28

Sample ID: G128-1568-3J
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 7/27/2005 06:17:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-3J

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1568-3J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-41.5	-0.0077	mg/L	0.00026	-0.0077	mg/L	0.00026	3.42%
Se 196	32.8	0.0054	mg/L	0.00145	0.0054	mg/L	0.00145	26.78%
Cd 214	-114.7	-0.0004	mg/L	0.00000	-0.0004	mg/L	0.00000	0.15%
Pb 220	63.8	0.0032	mg/L	0.00191	0.0032	mg/L	0.00191	60.36%
Ba 234	18641.0	0.0417	mg/L	0.00222	0.0417	mg/L	0.00222	5.32%
Mn 258	50828.1	0.0219	mg/L	0.00046	0.0219	mg/L	0.00046	2.09%
Fe 260	-47.9	-0.0005	mg/L	0.01178	-0.0005	mg/L	0.01178	>999.9%
Cr 268	342.7	0.0010	mg/L	0.00000	0.0010	mg/L	0.00000	0.00%
Mg 279	10155.8	1.32	mg/L	0.032	1.32	mg/L	0.032	2.39%
Al 308	887.8	0.0420	mg/L	0.00687	0.0420	mg/L	0.00687	16.35%
Ca 318	221111.9	3.40	mg/L	0.034	3.40	mg/L	0.034	1.00%
Ag 328	-16.1	0.0000	mg/L	0.00031	0.0000	mg/L	0.00031	>999.9%

Sequence No.: 36
Sample ID: G128-1568-4J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 7/27/2005 06:21:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-4J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-4J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-34.7	-0.0044	mg/L	0.00123	-0.0044	mg/L	0.00123	28.09%
Se 196	-17.3	0.0109	mg/L	0.00052	0.0109	mg/L	0.00052	4.78%
Cd 214	398.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	28.19%
Pb 220	189.5	0.0073	mg/L	0.00180	0.0073	mg/L	0.00180	24.61%
Ba 234	97119.4	0.217	mg/L	0.0035	0.217	mg/L	0.0035	1.62%
Mn 258	735154.2	0.317	mg/L	0.0028	0.317	mg/L	0.0028	0.87%
Fe 260	2061483.8	22.8	mg/L	0.08	22.8	mg/L	0.08	0.36%
Cr 268	394.1	0.0012	mg/L	0.00092	0.0012	mg/L	0.00092	79.42%
Mg 279	47056.7	6.10	mg/L	0.036	6.10	mg/L	0.036	0.58%
Al 308	16184.9	0.766	mg/L	0.0134	0.766	mg/L	0.0134	1.74%
Ca 318	1974554.9	30.4	mg/L	0.53	30.4	mg/L	0.53	1.75%
Ag 328	78.3	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	57.86%

Sequence No.: 37
Sample ID: G128-1568-5J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 7/27/2005 06:26:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-5J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-5J

Mean Corrected Calib Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
As 189	-41.6	-0.0077	mg/L	0.00371	-0.0077	mg/L	0.00371	48.43%
Se 196	47.1	0.0078	mg/L	0.00039	0.0078	mg/L	0.00039	5.04%
Cd 214	-183.2	-0.0007	mg/L	0.00014	-0.0007	mg/L	0.00014	21.63%
Pb 220	58.6	0.0029	mg/L	0.00076	0.0029	mg/L	0.00076	26.39%
Ba 234	13248.5	0.0297	mg/L	0.00059	0.0297	mg/L	0.00059	2.00%
Mn 258	225653.8	0.0973	mg/L	0.00046	0.0973	mg/L	0.00046	0.47%
Fe 260	704.7	0.0078	mg/L	0.02356	0.0078	mg/L	0.02356	302.06%
Cr 268	220.3	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.00%
Mg 279	7119.6	0.923	mg/L	0.0042	0.923	mg/L	0.0042	0.46%
Al 308	193.6	0.0092	mg/L	0.00324	0.0092	mg/L	0.00324	35.36%
Ca 318	1012453.1	15.6	mg/L	0.04	15.6	mg/L	0.04	0.25%
Ag 328	242.8	0.0003	mg/L	0.00043	0.0003	mg/L	0.00043	132.05%

Sequence No.: 38
Sample ID: G128-1568-6J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 7/27/2005 06:30:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-6J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-6J

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
As 189	-42.0	-0.0079	mg/L	0.00025	-0.0079	mg/L	0.00025	3.21%
Se 196	32.7	0.0054	mg/L	0.00349	0.0054	mg/L	0.00349	64.67%
Cd 214	-211.5	-0.0008	mg/L	0.00000	-0.0008	mg/L	0.00000	0.01%
Pb 220	55.8	0.0028	mg/L	0.00165	0.0028	mg/L	0.00165	59.66%
Ba 234	67137.7	0.150	mg/L	0.0026	0.150	mg/L	0.0026	1.70%
Mn 258	4306020.9	1.86	mg/L	0.013	1.86	mg/L	0.013	0.69%
Fe 260	1408.9	0.0156	mg/L	0.00076	0.0156	mg/L	0.00076	4.86%
Cr 268	760.5	0.0022	mg/L	0.00139	0.0022	mg/L	0.00139	61.88%
Mg 279	29284.1	3.80	mg/L	0.050	3.80	mg/L	0.050	1.31%
Al 308	532.5	0.0252	mg/L	0.01769	0.0252	mg/L	0.01769	70.19%
Ca 318	257627.9	3.96	mg/L	0.021	3.96	mg/L	0.021	0.53%
Ag 328	839.7	0.0011	mg/L	0.00015	0.0011	mg/L	0.00015	13.50%

Sequence No.: 39
Sample ID: G128-1568-7J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 7/27/2005 06:34:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-7J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-7J

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
As 189	-24.6	-0.0046	mg/L	0.00387	-0.0046	mg/L	0.00387	84.46%
Se 196	25.2	0.0043	mg/L	0.00533	0.0043	mg/L	0.00533	125.30%
Cd 214	-64.5	-0.0002	mg/L	0.00042	-0.0002	mg/L	0.00042	174.25%
Pb 220	116.6	0.0058	mg/L	0.00182	0.0058	mg/L	0.00182	31.69%
Ba 234	51593.2	0.116	mg/L	0.0033	0.116	mg/L	0.0033	2.84%
Mn 258	15832.9	0.0068	mg/L	0.00023	0.0068	mg/L	0.00023	3.36%
Fe 260	13615.0	0.151	mg/L	0.0136	0.151	mg/L	0.0136	9.03%
Cr 268	2552.2	0.0075	mg/L	0.00131	0.0075	mg/L	0.00131	17.46%
Mg 279	22981.7	2.98	mg/L	0.013	2.98	mg/L	0.013	0.43%
Al 308	3331.3	0.158	mg/L	0.0188	0.158	mg/L	0.0188	11.95%
Ca 318	345274.3	5.31	mg/L	0.049	5.31	mg/L	0.049	0.92%
Ag 328	80.7	0.0001	mg/L	0.00031	0.0001	mg/L	0.00031	282.86%

Sequence No.: 40
Sample ID: G128-1568-8J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 7/27/2005 06:39:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-8J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-8J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	3.7	0.0035	mg/L	0.00428	0.0035	mg/L	0.00428	120.54%
Se 196	-74.4	0.0086	mg/L	0.00192	0.0086	mg/L	0.00192	22.35%
Cd 214	287.4	-0.0008	mg/L	0.00051	-0.0008	mg/L	0.00051	64.45%
Pb 220	132.5	0.0034	mg/L	0.00326	0.0034	mg/L	0.00326	94.82%
Ba 234	210962.2	0.472	mg/L	0.0061	0.472	mg/L	0.0061	1.28%
Mn 258	2738014.8	1.18	mg/L	0.006	1.18	mg/L	0.006	0.47%
Fe 260	3130729.5	34.7	mg/L	0.25	34.7	mg/L	0.25	0.73%
Cr 268	445.4	0.0013	mg/L	0.00114	0.0013	mg/L	0.00114	86.56%
Mg 279	107976.0	14.0	mg/L	0.14	14.0	mg/L	0.14	1.02%
Al 308	19291.9	0.913	mg/L	0.0055	0.913	mg/L	0.0055	0.60%
Ca 318	9337156.0	144	mg/L	0.9	144	mg/L	0.9	0.65%
Ag 328	-49.5	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	276.81%

Sequence No.: 41
Sample ID: G128-1568-9J
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 7/27/2005 06:43:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-9J

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1568-9J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-33.4	-0.0062	mg/L	0.00061	-0.0062	mg/L	0.00061	9.76%
Se 196	41.0	0.0068	mg/L	0.00059	0.0068	mg/L	0.00059	8.73%
Cd 214	-51.8	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	92.14%
Pb 220	109.1	0.0054	mg/L	0.00116	0.0054	mg/L	0.00116	21.44%
Ba 234	30731.4	0.0688	mg/L	0.00018	0.0688	mg/L	0.00018	0.27%
Mn 258	16585.4	0.0072	mg/L	0.00023	0.0072	mg/L	0.00023	3.21%
Fe 260	328.4	0.0036	mg/L	0.01767	0.0036	mg/L	0.01767	486.10%
Cr 268	360.4	0.0011	mg/L	0.00000	0.0011	mg/L	0.00000	0.00%
Mg 279	9086.4	1.18	mg/L	0.014	1.18	mg/L	0.014	1.18%
Al 308	854.1	0.0404	mg/L	0.00913	0.0404	mg/L	0.00913	22.57%
Ca 318	438779.2	6.75	mg/L	0.026	6.75	mg/L	0.026	0.39%
Ag 328	178.8	0.0002	mg/L	0.00056	0.0002	mg/L	0.00056	229.58%

Sequence No.: 42
Sample ID: G128-1568-9K dup
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 7/27/2005 06:48:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1568-9K dup

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1568-9K dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-44.5	-0.0082	mg/L	0.00032	-0.0082	mg/L	0.00032	3.89%
Se 196	68.9	0.0114	mg/L	0.00015	0.0114	mg/L	0.00015	1.31%
Cd 214	-100.8	-0.0004	mg/L	0.00057	-0.0004	mg/L	0.00057	154.72%
Pb 220	147.1	0.0073	mg/L	0.00104	0.0073	mg/L	0.00104	14.22%
Ba 234	30262.3	0.0678	mg/L	0.00286	0.0678	mg/L	0.00286	4.22%
Mn 258	16209.1	0.0070	mg/L	0.00000	0.0070	mg/L	0.00000	0.00%
Fe 260	1408.9	0.0156	mg/L	0.01102	0.0156	mg/L	0.01102	70.68%
Cr 268	624.2	0.0018	mg/L	0.00039	0.0018	mg/L	0.00039	21.26%
Mg 279	8957.8	1.16	mg/L	0.024	1.16	mg/L	0.024	2.08%
Al 308	689.4	0.0326	mg/L	0.00775	0.0326	mg/L	0.00775	23.74%
Ca 318	427919.3	6.58	mg/L	0.039	6.58	mg/L	0.039	0.59%
Ag 328	370.6	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	12.06%

Sequence No.: 43
Sample ID: ccv4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/27/2005 06:52:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv4

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccv4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2722.8	0.501	mg/L	0.0067	0.501	mg/L	0.0067	1.34%
Se 196	2968.0	0.484	mg/L	0.0036	0.484	mg/L	0.0036	0.74%
Cd 214	129925.2	0.472	mg/L	0.0004	0.472	mg/L	0.0004	0.09%
Pb 220	9754.8	0.483	mg/L	0.0016	0.483	mg/L	0.0016	0.33%
Ba 234	1068646.9	2.39	mg/L	0.027	2.39	mg/L	0.027	1.14%
Mn 258	1126612.7	0.486	mg/L	0.0001	0.486	mg/L	0.0001	0.01%
Fe 260	217073.5	2.40	mg/L	0.018	2.40	mg/L	0.018	0.74%
Cr 268	164686.4	0.486	mg/L	0.0023	0.486	mg/L	0.0023	0.48%
Mg 279	18839.5	2.44	mg/L	0.035	2.44	mg/L	0.035	1.44%
Al 308	52263.5	2.47	mg/L	0.007	2.47	mg/L	0.007	0.28%
Ca 318	153495.7	2.36	mg/L	0.004	2.36	mg/L	0.004	0.17%
Ag 328	357007.9	0.484	mg/L	0.0011	0.484	mg/L	0.0011	0.23%

Sequence No.: 44
Sample ID: ccb4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/27/2005 06:56:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb4

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccb4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-30.9	-0.0057	mg/L	0.00296	-0.0057	mg/L	0.00296	52.11%
Se 196	19.1	0.0031	mg/L	0.00158	0.0031	mg/L	0.00158	50.52%
Cd 214	-149.2	-0.0005	mg/L	0.00181	-0.0005	mg/L	0.00181	334.74%
Pb 220	10.3	0.0005	mg/L	0.00076	0.0005	mg/L	0.00076	148.63%
Ba 234	250.1	0.0006	mg/L	0.00103	0.0006	mg/L	0.00103	184.06%
Mn 258	1269.6	0.0005	mg/L	0.00131	0.0005	mg/L	0.00131	238.99%
Fe 260	-1176.8	-0.0130	mg/L	0.00589	-0.0130	mg/L	0.00589	45.22%
Cr 268	-61.2	-0.0002	mg/L	0.00117	-0.0002	mg/L	0.00117	650.67%
Mg 279	-27.0	-0.0035	mg/L	0.00061	-0.0035	mg/L	0.00061	17.48%

Al 308	277.4	0.0131 mg/L	0.00237	0.0131 mg/L	0.00237	18.01%
Ca 318	281.5	0.0043 mg/L	0.00228	0.0043 mg/L	0.00228	52.77%
Ag 328	516.3	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	4.48%

Sequence No.: 45
Sample ID: G128-1567-1K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 7/27/2005 07:01:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-1K x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-1K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-42.4	-0.0078	mg/L	0.00551	-0.0078	mg/L	0.00551	70.99%
Se 196	23.4	0.0044	mg/L	0.00385	0.0044	mg/L	0.00385	87.97%
Cd 214	-359.0	-0.0014	mg/L	0.00055	-0.0014	mg/L	0.00055	40.72%
Pb 220	27.7	0.0013	mg/L	0.00094	0.0013	mg/L	0.00094	72.72%
Ba 234	23123.2	0.0518	mg/L	0.00042	0.0518	mg/L	0.00042	0.82%
Mn 258	377563.1	0.163	mg/L	0.0005	0.163	mg/L	0.0005	0.32%
Fe 260	81231.5	0.899	mg/L	0.0118	0.899	mg/L	0.0118	1.31%
Cr 268	281.5	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	30.74%
Mg 279	29489.2	3.82	mg/L	0.027	3.82	mg/L	0.027	0.70%
Al 308	273.2	0.0129	mg/L	0.00913	0.0129	mg/L	0.00913	70.55%
Ca 318	1007855.4	15.5	mg/L	0.12	15.5	mg/L	0.12	0.76%
Ag 328	967.2	0.0013	mg/L	0.00052	0.0013	mg/L	0.00052	40.01%

Sequence No.: 46
Sample ID: G128-1567-3K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 7/27/2005 07:05:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-3K x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-3K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-28.9	-0.0051	mg/L	0.00671	-0.0051	mg/L	0.00671	131.61%
Se 196	5.9	0.0023	mg/L	0.00161	0.0023	mg/L	0.00161	70.70%
Cd 214	-344.6	-0.0014	mg/L	0.00048	-0.0014	mg/L	0.00048	34.93%
Pb 220	-28.2	-0.0016	mg/L	0.00185	-0.0016	mg/L	0.00185	115.83%
Ba 234	3445.3	0.0077	mg/L	0.00025	0.0077	mg/L	0.00025	3.29%
Mn 258	287893.1	0.124	mg/L	0.0000	0.124	mg/L	0.0000	0.00%
Fe 260	195248.5	2.16	mg/L	0.006	2.16	mg/L	0.006	0.27%
Cr 268	0.0	0.0000	mg/L	0.00143	0.0000	mg/L	0.00143	>999.9%
Mg 279	32041.7	4.15	mg/L	0.050	4.15	mg/L	0.050	1.22%
Al 308	246.2	0.0117	mg/L	0.01797	0.0117	mg/L	0.01797	154.21%
Ca 318	717505.1	11.0	mg/L	0.11	11.0	mg/L	0.11	1.02%
Ag 328	417.0	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	5.70%

Sequence No.: 47
Sample ID: G128-1567-8K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 7/27/2005 07:09:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-8K x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-8K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	96.4	0.0185	mg/L	0.00606	0.0185	mg/L	0.00606	32.76%
Se 196	2.8	0.0055	mg/L	0.00148	0.0055	mg/L	0.00148	27.00%
Cd 214	-338.9	-0.0017	mg/L	0.00144	-0.0017	mg/L	0.00144	85.95%
Pb 220	11.9	-0.0002	mg/L	0.00124	-0.0002	mg/L	0.00124	766.47%
Ba 234	2632.0	0.0059	mg/L	0.00028	0.0059	mg/L	0.00028	4.82%
Mn 258	359237.0	0.155	mg/L	0.0007	0.155	mg/L	0.0007	0.44%
Fe 260	751508.2	8.32	mg/L	0.104	8.32	mg/L	0.104	1.25%
Cr 268	187.7	0.0006	mg/L	0.00065	0.0006	mg/L	0.00065	116.82%
Mg 279	35046.3	4.54	mg/L	0.028	4.54	mg/L	0.028	0.61%
Al 308	383.1	0.0181	mg/L	0.00550	0.0181	mg/L	0.00550	30.30%
Ca 318	769561.3	11.8	mg/L	0.11	11.8	mg/L	0.11	0.96%
Ag 328	353.1	0.0005	mg/L	0.00022	0.0005	mg/L	0.00022	45.33%

Sequence No.: 48
Sample ID: G128-1567-9K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 7/27/2005 07:14:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-9K x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-9K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-27.5	-0.0048	mg/L	0.00374	-0.0048	mg/L	0.00374	78.56%
Se 196	2.2	0.0024	mg/L	0.00043	0.0024	mg/L	0.00043	18.00%
Cd 214	-90.4	-0.0005	mg/L	0.00116	-0.0005	mg/L	0.00116	228.43%
Pb 220	3.8	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	46.68%
Ba 234	19065.3	0.0427	mg/L	0.00048	0.0427	mg/L	0.00048	1.12%
Mn 258	380169.7	0.164	mg/L	0.0011	0.164	mg/L	0.0011	0.65%
Fe 260	305502.5	3.38	mg/L	0.024	3.38	mg/L	0.024	0.70%
Cr 268	-61.2	-0.0002	mg/L	0.00039	-0.0002	mg/L	0.00039	216.89%
Mg 279	33052.4	4.29	mg/L	0.016	4.29	mg/L	0.016	0.37%
Al 308	700.0	0.0331	mg/L	0.01296	0.0331	mg/L	0.01296	39.12%
Ca 318	1262985.6	19.4	mg/L	0.47	19.4	mg/L	0.47	2.43%
Ag 328	690.7	0.0009	mg/L	0.00019	0.0009	mg/L	0.00019	19.82%

Sequence No.: 49
Sample ID: G128-1567-12K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 7/27/2005 07:18:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-12K x10

Analyte	Back Pressure	Flow
All	136.0 kPa	0.80 L/min

Mean Data: G128-1567-12K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-30.9	-0.0055	mg/L	0.00607	-0.0055	mg/L	0.00607	110.59%
Se 196	9.4	0.0027	mg/L	0.00089	0.0027	mg/L	0.00089	33.34%
Cd 214	-647.1	-0.0024	mg/L	0.00075	-0.0024	mg/L	0.00075	30.49%
Pb 220	-7.3	-0.0005	mg/L	0.00245	-0.0005	mg/L	0.00245	460.46%
Ba 234	2663.3	0.0060	mg/L	0.00134	0.0060	mg/L	0.00134	22.52%
Mn 258	1005710.3	0.434	mg/L	0.0034	0.434	mg/L	0.0034	0.79%

Fe 260	168907.9	1.87 mg/L	0.018	1.87 mg/L	0.018	0.95%
Cr 268	282.5	0.0008 mg/L	0.00053	0.0008 mg/L	0.00053	63.82%
Mg 279	27115.6	3.52 mg/L	0.012	3.52 mg/L	0.012	0.33%
Al 308	221.4	0.0105 mg/L	0.00708	0.0105 mg/L	0.00708	67.53%
Ca 318	811222.1	12.5 mg/L	0.11	12.5 mg/L	0.11	0.89%
Ag 328	723.9	0.0010 mg/L	0.00037	0.0010 mg/L	0.00037	37.80%

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Sequence No.: 50
Sample ID: G128-1567-17K x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 7/27/2005 07:22:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-17K x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-17K x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	9.0	0.0018	mg/L	0.00489	0.0018	mg/L	0.00489	272.17%
Se 196	23.1	0.0050	mg/L	0.00050	0.0050	mg/L	0.00050	10.03%
Cd 214	-491.5	-0.0019	mg/L	0.00173	-0.0019	mg/L	0.00173	91.64%
Pb 220	-15.3	-0.0009	mg/L	0.00390	-0.0009	mg/L	0.00390	419.22%
Ba 234	21777.6	0.0488	mg/L	0.00089	0.0488	mg/L	0.00089	1.83%
Mn 258	376698.3	0.162	mg/L	0.0005	0.162	mg/L	0.0005	0.28%
Fe 260	173423.4	1.92	mg/L	0.006	1.92	mg/L	0.006	0.31%
Cr 268	257.7	0.0008	mg/L	0.00114	0.0008	mg/L	0.00114	149.59%
Mg 279	40553.6	5.26	mg/L	0.078	5.26	mg/L	0.078	1.49%
Al 308	858.3	0.0406	mg/L	0.01533	0.0406	mg/L	0.01533	37.73%
Ca 318	1006729.5	15.5	mg/L	0.05	15.5	mg/L	0.05	0.34%
Ag 328	530.5	0.0007	mg/L	0.00037	0.0007	mg/L	0.00037	51.58%

==========

Sequence No.: 51
Sample ID: G128-1567-17L dup x10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 7/27/2005 07:26:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: G128-1567-17L dup x10

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: G128-1567-17L dup x10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-25.0	-0.0045	mg/L	0.00024	-0.0045	mg/L	0.00024	5.31%
Se 196	5.4	0.0020	mg/L	0.00008	0.0020	mg/L	0.00008	3.93%
Cd 214	-522.1	-0.0020	mg/L	0.00010	-0.0020	mg/L	0.00010	5.12%
Pb 220	28.0	0.0012	mg/L	0.00049	0.0012	mg/L	0.00049	40.29%
Ba 234	21706.2	0.0486	mg/L	0.00007	0.0486	mg/L	0.00007	0.15%
Mn 258	384712.7	0.166	mg/L	0.0015	0.166	mg/L	0.0015	0.93%
Fe 260	166679.6	1.84	mg/L	0.025	1.84	mg/L	0.025	1.38%
Cr 268	-108.7	-0.0003	mg/L	0.00039	-0.0003	mg/L	0.00039	122.05%
Mg 279	39097.0	5.07	mg/L	0.032	5.07	mg/L	0.032	0.63%
Al 308	761.5	0.0360	mg/L	0.00885	0.0360	mg/L	0.00885	24.54%
Ca 318	992165.9	15.3	mg/L	0.14	15.3	mg/L	0.14	0.92%
Ag 328	562.5	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	40.59%

==========

Sequence No.: 52
Sample ID: icsA2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 7/27/2005 07:31:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsA2

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: icsA2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-64.5	-0.0024	mg/L	0.00257	-0.0024	mg/L	0.00257	108.42%
Se 196	-322.5	0.0051	mg/L	0.00306	0.0051	mg/L	0.00306	59.86%
Cd 214	1078.0	-0.0012	mg/L	0.00010	-0.0012	mg/L	0.00010	8.25%
Pb 220	109.8	-0.0033	mg/L	0.00310	-0.0033	mg/L	0.00310	94.82%
Ba 234	-478.1	-0.0011	mg/L	0.00023	-0.0011	mg/L	0.00023	21.35%
Mn 258	761.0	0.0003	mg/L	0.00023	0.0003	mg/L	0.00023	69.93%
Fe 260	8742569.0	96.8	mg/L	0.85	96.8	mg/L	0.85	0.88%
Cr 268	510.5	0.0015	mg/L	0.00082	0.0015	mg/L	0.00082	54.73%
Mg 279	300724.7	39.0	mg/L	0.48	39.0	mg/L	0.48	1.24%
Al 308	2099635.7	99.4	mg/L	0.29	99.4	mg/L	0.29	0.29%
Ca 318	2486468.4	38.2	mg/L	0.26	38.2	mg/L	0.26	0.67%
Ag 328	-1198.9	-0.0016	mg/L	0.00003	-0.0016	mg/L	0.00003	1.91%

Sequence No.: 53
Sample ID: icsB2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 7/27/2005 07:35:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: icsB2

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: icsB2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	1543.8	0.294	mg/L	0.0018	0.294	mg/L	0.0018	0.63%
Se 196	1389.4	0.283	mg/L	0.0115	0.283	mg/L	0.0115	4.07%
Cd 214	73354.3	0.261	mg/L	0.0031	0.261	mg/L	0.0031	1.17%
Pb 220	5657.7	0.271	mg/L	0.0012	0.271	mg/L	0.0012	0.45%
Ba 234	408932.1	0.916	mg/L	0.0198	0.916	mg/L	0.0198	2.16%
Mn 258	637562.9	0.275	mg/L	0.0002	0.275	mg/L	0.0002	0.06%
Fe 260	8698233.2	96.3	mg/L	0.13	96.3	mg/L	0.13	0.14%
Cr 268	94172.1	0.278	mg/L	0.0027	0.278	mg/L	0.0027	0.99%
Mg 279	294707.3	38.2	mg/L	0.14	38.2	mg/L	0.14	0.37%
Al 308	2075435.7	98.2	mg/L	0.37	98.2	mg/L	0.37	0.37%
Ca 318	2439520.0	37.5	mg/L	0.26	37.5	mg/L	0.26	0.69%
Ag 328	203791.3	0.276	mg/L	0.0015	0.276	mg/L	0.0015	0.53%

Sequence No.: 54
Sample ID: ccv5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/27/2005 07:39:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccv5

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccv5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	2675.3	0.492	mg/L	0.0044	0.492	mg/L	0.0044	0.89%
Se 196	2843.4	0.464	mg/L	0.0008	0.464	mg/L	0.0008	0.17%
Cd 214	124700.5	0.453	mg/L	0.0041	0.453	mg/L	0.0041	0.90%

Pb 220	9451.8	0.468 mg/L	0.0029	0.468 mg/L	0.0029	0.62%
Ba 234	1049598.4	2.35 mg/L	0.009	2.35 mg/L	0.009	0.39%
Mn 258	1092635.1	0.471 mg/L	0.0037	0.471 mg/L	0.0037	0.78%
Fe 260	212393.2	2.35 mg/L	0.015	2.35 mg/L	0.015	0.64%
Cr 268	159838.8	0.471 mg/L	0.0001	0.471 mg/L	0.0001	0.03%
Mg 279	18362.6	2.38 mg/L	0.058	2.38 mg/L	0.058	2.44%
Al 308	51541.5	2.44 mg/L	0.009	2.44 mg/L	0.009	0.36%
Ca 318	152745.1	2.35 mg/L	0.008	2.35 mg/L	0.008	0.35%
Ag 328	351135.1	0.476 mg/L	0.0019	0.476 mg/L	0.0019	0.39%

Sequence No.: 55
Sample ID: ccb5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/27/2005 07:44:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ccb5

Analyte	Back Pressure	Flow
All	137.0 kPa	0.80 L/min

Mean Data: ccb5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
As 189	-22.4	-0.0041	mg/L	0.00102	-0.0041	mg/L	0.00102	24.80%
Se 196	10.7	0.0018	mg/L	0.00149	0.0018	mg/L	0.00149	85.20%
Cd 214	-661.6	-0.0024	mg/L	0.00117	-0.0024	mg/L	0.00117	48.70%
Pb 220	-43.4	-0.0021	mg/L	0.00243	-0.0021	mg/L	0.00243	113.26%
Ba 234	924.6	0.0021	mg/L	0.00088	0.0021	mg/L	0.00088	42.33%
Mn 258	1505.2	0.0006	mg/L	0.00162	0.0006	mg/L	0.00162	250.17%
Fe 260	-472.6	-0.0052	mg/L	0.01691	-0.0052	mg/L	0.01691	323.34%
Cr 268	8.9	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	378.58%
Mg 279	39.2	0.0051	mg/L	0.00424	0.0051	mg/L	0.00424	83.41%
Al 308	311.0	0.0147	mg/L	0.00659	0.0147	mg/L	0.00659	44.79%
Ca 318	458.0	0.0070	mg/L	0.00204	0.0070	mg/L	0.00204	28.98%
Ag 328	160.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.53%

PSW

Autosampler Loading List

Sample Information File: 072705A.SIF
Methods: Hg-NaBH4

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
2	Hg	Std 1: 0.200 µg/L
3	Hg	Std 2: 0.500 µg/L
4	Hg	Std 3: 1.000 µg/L
5	Hg	Std 4: 5.000 µg/L
6	Hg	Std 5: 10.00 µg/L
7	Hg	QC Sample 1: 10.0000 µg/L
9	Hg	Sample: ccv1
10	Hg	Sample: ccb1
11	Hg	Sample: pb3313
12	Hg	Sample: lcs3313
13	Hg	Sample: lcd3313
14	Hg	Sample: G132-1388-1B
15	Hg	Sample: G132-1388-1C ms
16	Hg	Sample: G132-1388-1D msd
17	Hg	Sample: G132-1388-2B
18	Hg	Sample: G132-1388-3B
19	Hg	Sample: G132-1388-4B
20	Hg	Sample: G132-1388-5B
21	Hg	Sample: ccv2
22	Hg	Sample: ccb2
23	Hg	Sample: G132-1388-6B
24	Hg	Sample: G161-2080-1K
25	Hg	Sample: G161-2083-1N
26	Hg	Sample: G161-2083-2I
27	Hg	Sample: G204-470-1G
28	Hg	Sample: G204-471-3B
29	Hg	Sample: G204-472-1G
30	Hg	Sample: G520-100-20B
31	Hg	Sample: G520-100-21B
32	Hg	Sample: G122-2625-3B
33	Hg	Sample: ccv3
34	Hg	Sample: ccb3
35	Hg	Sample: G122-2625-5B
36	Hg	Sample: G122-2625-7B
37	Hg	Sample: G122-2625-9B
38	Hg	Sample: G122-2625-11B
39	Hg	Sample: blk072605a
40	Hg	Sample: blk072605a dup
41	Hg	Sample: ccv4
42	Hg	Sample: ccb4

Method Name: Hg-NaBH4
Method Description: Hg-SnSl2
Element: Hg

Date: 07/27/2005
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 072705A.SIF Results Data Set Name: 072705a

Element: Hg Seq. No.: 1 AS Loc.: --- Date: 07/27/2005
Sample ID: Sample

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0047	0.0016	01:19:15	Yes
Mean:			0.0047			
SD :						
%RSD:						

Method Name: Hg-NaBH4
Method Description: Hg-SnSl2
Element: Hg

Date: 07/27/2005
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 072705A.SIF Results Data Set Name: 072705a

Element: Hg Seq. No.: 2 AS Loc.: --- Date: 07/27/2005
Sample ID: Sample

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0006	0.0019	01:20:57	Yes
Mean:			0.0006			
SD :						
%RSD:						

Method Name: Hg-NaBH4
Method Description: Hg-SnSl2
Element: Hg

Date: 07/27/2005
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 072705A.SIF Results Data Set Name: 072705a

Element: Hg Seq. No.: 3 AS Loc.: 1 Date: 07/27/2005
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0493	0.0079	01:22:39	Yes
2			0.0222	0.0060	01:23:14	No
Mean:			0.0357			
SD :			0.0191			

%RSD: 53.5151
Auto-zero performed.

==========

Element: Hg Seq. No.: 4 AS Loc.: 2 Date: 07/27/2005
Sample ID: Std 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0358	0.0121	01:24:44	Yes
2			0.0209	0.0108	01:25:20	No
Mean:			0.0283			
SD :			0.0105			
%RSD:			37.2054			

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.14153
Intercept : 0.00000

==========

Element: Hg Seq. No.: 5 AS Loc.: 3 Date: 07/27/2005
Sample ID: Std 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.1092	0.0183	01:26:51	Yes
2			0.0638	0.0164	01:27:27	No
Mean:			0.0865			
SD :			0.0321			
%RSD:			37.0904			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99663 Slope: 0.17473
Intercept : -0.00249

==========

Element: Hg Seq. No.: 6 AS Loc.: 4 Date: 07/27/2005
Sample ID: Std 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.1457	0.0258	01:28:59	Yes
2			0.1348	0.0253	01:29:35	No
Mean:			0.1403			
SD :			0.0077			
%RSD:			5.4868			

[Hg] Standard number 3 applied. [1.000]
Correlation Coefficient: 0.99154 Slope: 0.14236
Intercept : 0.00328

==========

Element: Hg Seq. No.: 7 AS Loc.: 5 Date: 07/27/2005
Sample ID: Std 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.6542	0.1001	01:31:08	Yes
2			0.6340	0.0978	01:31:43	No
Mean:			0.6441			
SD :			0.0143			
%RSD:			2.2153			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99941 Slope: 0.12736
Intercept : 0.00919

==========

Element: Hg Seq. No.: 8 AS Loc.: 6 Date: 07/27/2005
Sample ID: Std 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			1.2396	0.1832	01:33:18	Yes
2			1.2165	0.1803	01:33:53	No
Mean:			1.2281			
SD :			0.0163			
%RSD:			1.3306			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99964 Slope: 0.12241
Intercept : 0.01384

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0357	---	----	----	----
Std 1	0.0283	0.200	0.118	0.0105	37.2
Std 2	0.0865	0.500	0.594	0.0321	37.1
Std 3	0.1403	1.000	1.033	0.0077	5.5
Std 4	0.6441	5.000	5.149	0.0143	2.2
Std 5	1.2281	10.000	9.919	0.0163	1.3
Calib Blank	0.0357	---	----	----	----

Correlation Coefficient: 0.99964 Slope: 0.12241 Intercept: 0.0138

Element: Hg Seq. No.: 9 AS Loc.: 7 Date: 07/27/2005
Sample ID: QC Sample 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	11.01	11.01	1.3620	0.1984	01:35:28	Yes
Sample absorbance is greater than that of the highest standard.						
2	10.64	10.64	1.3164	0.1937	01:36:03	No
Mean:	10.83	10.83	1.3392			
SD :	0.2632	0.2632	0.0322			
%RSD:	2.4	2.4	2.4061			

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 07/27/2005
Sample ID: ccv1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.064	5.064	0.6337	0.0960	01:37:35	Yes
2	4.939	4.939	0.6184	0.0951	01:38:11	No
Mean:	5.001	5.001	0.6261			
SD :	0.0886	0.0886	0.0108			
%RSD:	1.8	1.8	1.7318			

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 07/27/2005
Sample ID: ccb1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0142	0.0085	01:39:40	Yes
2	-0.035	-0.035	0.0095	0.0076	01:40:15	No
Mean:	-0.016	-0.016	0.0118			
SD :	0.0267	0.0267	0.0033			
%RSD:	163.8	163.8	27.5783			

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 07/27/2005
Sample ID: pb3313

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0105	0.0084	01:41:46	Yes
2	-0.010	-0.010	0.0126	0.0079	01:42:22	No
Mean:	-0.019	-0.019	0.0116			
SD :	0.0118	0.0118	0.0014			
%RSD:	63.6	63.6	12.5046			

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 07/27/2005
Sample ID: lcs3313

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.211	5.211	0.6518	0.1002	01:43:53	Yes
2	5.066	5.066	0.6339	0.0968	01:44:29	No
Mean:	5.139	5.139	0.6429			
SD :	0.1029	0.1029	0.0126			
%RSD:	2.0	2.0	1.9598			

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 07/27/2005
Sample ID: lcd3313

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.140	5.140	0.6430	0.0978	01:46:01	Yes
2	5.031	5.031	0.6297	0.0963	01:46:37	No
Mean:	5.085	5.085	0.6364			
SD :	0.0773	0.0773	0.0095			
%RSD:	1.5	1.5	1.4870			

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 07/27/2005
Sample ID: G132-1388-1B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.775	0.775	0.1087	0.0201	01:48:10	Yes
2	0.618	0.618	0.0894	0.0208	01:48:46	No
Mean:	0.696	0.696	0.0991			
SD :	0.1114	0.1114	0.0136			
%RSD:	16.0	16.0	13.7678			

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 07/27/2005
Sample ID: G132-1388-1C ms

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.452	5.452	0.6812	0.0994	01:50:19	Yes
2	5.124	5.124	0.6411	0.0999	01:50:55	No
Mean:	5.288	5.288	0.6611			
SD :	0.2316	0.2316	0.0284			
%RSD:	4.4	4.4	4.2886			

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 07/27/2005
Sample ID: G132-1388-1D msd

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.280	5.280	0.6602	0.0970	01:52:28	Yes

2	5.198	5.198	0.6501	0.0978	01:53:04	No
Mean:	5.239	5.239	0.6552			
SD :	0.0585	0.0585	0.0072			
%RSD:	1.1	1.1	1.0921			

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 07/27/2005
Sample ID: G132-1388-2B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.527	0.527	0.0783	0.0163	01:54:35	Yes
2	0.472	0.472	0.0716	0.0166	01:55:10	No
Mean:	0.499	0.499	0.0750			
SD :	0.0389	0.0389	0.0048			
%RSD:	7.8	7.8	6.3477			

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 07/27/2005
Sample ID: G132-1388-3B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.460	0.460	0.0702	0.0162	01:56:39	Yes
2	0.414	0.414	0.0645	0.0153	01:57:14	No
Mean:	0.437	0.437	0.0673			
SD :	0.0329	0.0329	0.0040			
%RSD:	7.5	7.5	5.9789			

Element: Hg Seq. No.: 20 AS Loc.: 19 Date: 07/27/2005
Sample ID: G132-1388-4B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.259	0.259	0.0456	0.0120	01:58:44	Yes
2	0.258	0.258	0.0454	0.0116	01:59:19	No
Mean:	0.259	0.259	0.0455			
SD :	0.0013	0.0013	0.0002			
%RSD:	0.5	0.5	0.3491			

Element: Hg Seq. No.: 21 AS Loc.: 20 Date: 07/27/2005
Sample ID: G132-1388-5B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.609	1.609	0.2108	0.0357	02:00:49	Yes
2	1.521	1.521	0.2000	0.0344	02:01:24	No
Mean:	1.565	1.565	0.2054			
SD :	0.0622	0.0622	0.0076			
%RSD:	4.0	4.0	3.7085			

Element: Hg Seq. No.: 22 AS Loc.: 21 Date: 07/27/2005
Sample ID: ccv2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.083	5.083	0.6361	0.0965	02:02:54	Yes
2	4.955	4.955	0.6204	0.0943	02:03:29	No
Mean:	5.019	5.019	0.6282			
SD :	0.0906	0.0906	0.0111			
%RSD:	1.8	1.8	1.7649			

Element: Hg Seq. No.: 23 AS Loc.: 22 Date: 07/27/2005
Sample ID: ccb2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.004	-0.004	0.0134	0.0069	02:05:01	Yes
2	-0.052	-0.052	0.0075	0.0068	02:05:36	No
Mean:	-0.028	-0.028	0.0105			
SD :	0.0340	0.0340	0.0042			
%RSD:	122.7	122.7	39.7766			

Element: Hg Seq. No.: 24 AS Loc.: 23 Date: 07/27/2005
Sample ID: G132-1388-6B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.503	0.503	0.0754	0.0161	02:07:07	Yes
2	0.432	0.432	0.0667	0.0155	02:07:42	No
Mean:	0.467	0.467	0.0710			
SD :	0.0500	0.0500	0.0061			
%RSD:	10.7	10.7	8.6087			

Element: Hg Seq. No.: 25 AS Loc.: 24 Date: 07/27/2005
Sample ID: G161-2080-1K

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.011	-0.011	0.0125	0.0073	02:09:13	Yes
2	-0.017	-0.017	0.0118	0.0071	02:09:48	No
Mean:	-0.014	-0.014	0.0121			
SD :	0.0043	0.0043	0.0005			
%RSD:	31.2	31.2	4.3673			

Element: Hg Seq. No.: 26 AS Loc.: 25 Date: 07/27/2005
Sample ID: G161-2083-1N

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.084	-0.084	0.0036	0.0059	02:11:19	Yes
2	-0.103	-0.103	0.0013	0.0057	02:11:54	No
Mean:	-0.093	-0.093	0.0024			
SD :	0.0131	0.0131	0.0016			
%RSD:	14.1	14.1	66.1189			

Element: Hg Seq. No.: 27 AS Loc.: 26 Date: 07/27/2005
Sample ID: G161-2083-2I

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0100	0.0072	02:13:26	Yes
2	-0.026	-0.026	0.0107	0.0071	02:14:02	No
Mean:	-0.029	-0.029	0.0103			
SD :	0.0040	0.0040	0.0005			
%RSD:	14.0	14.0	4.7733			

Element: Hg Seq. No.: 28 AS Loc.: 27 Date: 07/27/2005
Sample ID: G204-470-1G

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.923	1.923	0.2492	0.0421	02:15:34	Yes

2	-0.442	-0.442	-0.0402	- 0.0004	02:16:10	No
Mean:	0.741	0.741	0.1045			
SD :	1.672	1.672	0.2046			
%RSD:	225.8	225.8	195.8543			

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Element: Hg Seq. No.: 29 AS Loc.: 28 Date: 07/27/2005
Sample ID: G204-471-3B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.234	-0.234	-0.0147	0.0035	02:17:43	Yes
2	-0.213	-0.213	-0.0122	0.0037	02:18:19	No
Mean:	-0.223	-0.223	-0.0135			
SD :	0.0145	0.0145	0.0018			
%RSD:	6.5	6.5	13.1117			

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Element: Hg Seq. No.: 30 AS Loc.: 29 Date: 07/27/2005
Sample ID: G204-472-1G

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.403	2.403	0.3080	0.0279	02:19:52	Yes
2	-1.364	-1.364	-0.1531	- -0.0005	02:20:27	No
Mean:	0.519	0.519	0.0774			
SD :	2.664	2.664	0.3261			
%RSD:	512.9	512.9	421.1684			

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Element: Hg Seq. No.: 31 AS Loc.: 30 Date: 07/27/2005
Sample ID: G520-100-20B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.431	-0.431	-0.0389	- 0.0004	02:22:01	Yes
2	-0.408	-0.408	-0.0362	- 0.0005	02:22:36	No
Mean:	-0.420	-0.420	-0.0375			
SD :	0.0156	0.0156	0.0019			
%RSD:	3.7	3.7	5.0951			

==========

Element: Hg Seq. No.: 32 AS Loc.: 31 Date: 07/27/2005
Sample ID: G520-100-21B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.266	-0.266	-0.0187	0.0028	02:24:09	Yes
2	-0.092	-0.092	0.0026	0.0054	02:24:45	No
Mean:	-0.179	-0.179	-0.0081			
SD :	0.1234	0.1234	0.0151			
%RSD:	69.0	69.0	187.5473			

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Element: Hg Seq. No.: 33 AS Loc.: 32 Date: 07/27/2005
Sample ID: G122-2625-3B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.042	-0.042	0.0087	0.0062	02:26:16	Yes
2	-0.054	-0.054	0.0073	0.0061	02:26:52	No
Mean:	-0.048	-0.048	0.0080			
SD :	0.0085	0.0085	0.0010			
%RSD:	17.8	17.8	13.0423			

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Element: Hg Seq. No.: 34 AS Loc.: 33 Date: 07/27/2005
Sample ID: ccv3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.868	4.868	0.6098	0.0878	02:28:21	Yes
2	4.788	4.788	0.6000	0.0870	02:28:56	No
Mean:	4.828	4.828	0.6049			
SD :	0.0566	0.0566	0.0069			
%RSD:	1.2	1.2	1.1461			

Element: Hg Seq. No.: 35 AS Loc.: 34 Date: 07/27/2005
Sample ID: ccb3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.070	-0.070	0.0053	0.0061	02:30:24	Yes
2	-0.069	-0.069	0.0054	0.0059	02:31:00	No
Mean:	-0.069	-0.069	0.0054			
SD :	0.0008	0.0008	0.0001			
%RSD:	1.2	1.2	1.9336			

Element: Hg Seq. No.: 36 AS Loc.: 35 Date: 07/27/2005
Sample ID: G122-2625-5B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.054	-0.054	0.0072	0.0065	02:32:29	Yes
2	-0.055	-0.055	0.0071	0.0065	02:33:04	No
Mean:	-0.055	-0.055	0.0071			
SD :	0.0007	0.0007	0.0001			
%RSD:	1.2	1.2	1.1467			

Element: Hg Seq. No.: 37 AS Loc.: 36 Date: 07/27/2005
Sample ID: G122-2625-7B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.045	-0.045	0.0083	0.0066	02:34:33	Yes
2	-0.057	-0.057	0.0068	0.0064	02:35:08	No
Mean:	-0.051	-0.051	0.0076			
SD :	0.0085	0.0085	0.0010			
%RSD:	16.6	16.6	13.7220			

Element: Hg Seq. No.: 38 AS Loc.: 37 Date: 07/27/2005
Sample ID: G122-2625-9B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.037	-0.037	0.0093	0.0065	02:36:38	Yes
2	-0.049	-0.049	0.0078	0.0064	02:37:13	No
Mean:	-0.043	-0.043	0.0086			
SD :	0.0084	0.0084	0.0010			
%RSD:	19.4	19.4	11.9437			

Element: Hg Seq. No.: 39 AS Loc.: 38 Date: 07/27/2005
Sample ID: G122-2625-11B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.021	-0.021	0.0113	0.0069	02:38:42	Yes

2	-0.039	-0.039	0.0090	0.0068	02:39:18	No
Mean:	-0.030	-0.030	0.0102			
SD :	0.0132	0.0132	0.0016			
%RSD:	44.1	44.1	15.9130			

Element: Hg Seq. No.: 40 AS Loc.: 39 Date: 07/27/2005
Sample ID: blk072605a

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.056	-0.056	0.0069	0.0062	02:40:49	Yes
2	-0.004	-0.004	0.0133	0.0066	02:41:24	No
Mean:	-0.030	-0.030	0.0101			
SD :	0.0368	0.0368	0.0045			
%RSD:	120.8	120.8	44.4831			

Element: Hg Seq. No.: 41 AS Loc.: 40 Date: 07/27/2005
Sample ID: blk072605a dup

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.114	-0.114	-0.0001	0.0058	02:42:56	Yes
2	-0.061	-0.061	0.0063	0.0061	02:43:31	No
Mean:	-0.088	-0.088	0.0031			
SD :	0.0371	0.0371	0.0045			
%RSD:	42.4	42.4	145.1678			

Element: Hg Seq. No.: 42 AS Loc.: 41 Date: 07/27/2005
Sample ID: ccv4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.825	4.825	0.6045	0.0889	02:45:03	Yes
2	4.746	4.746	0.5948	0.0873	02:45:38	No
Mean:	4.786	4.786	0.5997			
SD :	0.0558	0.0558	0.0068			
%RSD:	1.2	1.2	1.1395			

Element: Hg Seq. No.: 43 AS Loc.: 42 Date: 07/27/2005
Sample ID: ccb4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.099	-0.099	0.0017	0.0059	02:47:09	Yes
2	-0.078	-0.078	0.0042	0.0060	02:47:44	No
Mean:	-0.089	-0.089	0.0030			
SD :	0.0148	0.0148	0.0018			
%RSD:	16.6	16.6	60.9724			

Element: Hg Seq. No.: 44 AS Loc.: 7 Date: 07/27/2005
Sample ID: QC Sample 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	10.47	10.47	1.2958	0.1825	02:49:19	Yes
2	10.38	10.38	1.2843	0.1816	02:49:54	No
Mean:	10.43	10.43	1.2900			
SD :	0.0665	0.0665	0.0081			
%RSD:	0.6	0.6	0.6307			

QC value within specified limits.

Metals Prep, Standard, Run Logs

Prep Report for Batch 3313 (MERCURY/7470/WATER) on 2005-07-27

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	FinalVol	HNO3Lot	HClLot	H2SO4Lot	Temp	Time	Analyst
blk072605a		20			50	45105	45105	45105			psw
blk072605a dup	DUP	20			50	45105	45105	45105			psw
G122-2625-11B (146096)		20			50	45105	45105	45105			psw
G122-2625-3B (146092)		20			50	45105	45105	45105			psw
G122-2625-5B (146093)		20			50	45105	45105	45105			psw
G122-2625-7B (146094)		20			50	45105	45105	45105			psw
G122-2625-9B (146095)		20			50	45105	45105	45105			psw
G132-1388-1B (146076)		40			50	45105	45105	45105			psw
G132-1388-1C (146077)	MS	40	D-092,D-094	250	50	45105	45105	45105			psw
G132-1388-1D (146078)	MSD	40	D-092,D-094	250	50	45105	45105	45105			psw
G132-1388-2B (146079)		40			50	45105	45105	45105			psw
G132-1388-3B (146080)		40			50	45105	45105	45105			psw
G132-1388-4B (146081)		40			50	45105	45105	45105			psw
G132-1388-5B (146082)		40			50	45105	45105	45105			psw
G132-1388-6B (146083)		40			50	45105	45105	45105			psw
G161-2080-1K (146084)		40			50	45105	45105	45105			psw
G161-2083-1N (146085)		40			50	45105	45105	45105			psw
G161-2083-2I (146086)		40			50	45105	45105	45105			psw
G204-470-1G (146087)		20			50	45105	45105	45105			psw
G204-471-3B (146088)		20			50	45105	45105	45105			psw
G204-472-1G (146089)		20			50	45105	45105	45105			psw
G520-100-20B (146090)		20			50	45105	45105	45105			psw
G520-100-21B (146091)		20			50	45105	45105	45105			psw
lcd3313	LCD	40	D-092,D-094	250	50	45105	45105	45105			psw

lcs3313	LCS	40	D–092,D–094	250	50	45105	45105	45105			psw
pb3313	PB	40			50	45105	45105	45105			psw

Prep Report for Batch 3302 (METALS/3010/WATER) on 2005-07-26

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	FinalVol	HNO3Lot	HClLot	H2SO4Lot	Temp	Time	Analyst
G128-1567-18K (145433)		50			50	45105	45105		AB119		psw
G128-1567-19K (145434)		50			50	45105	45105		AB119		psw
G128-1567-20K (145435)		50			50	45105	45105		AB119		psw
G128-1567-21K (145436)		50			50	45105	45105		AB119		psw
G128-1567-22K (145437)		50			50	45105	45105		AB119		psw
G128-1567-23K (145438)		50			50	45105	45105		AB119		psw
G128-1567-24K (145439)		50			50	45105	45105		AB119		psw
G128-1567-25K (145440)		50			50	45105	45105		AB119		psw
G128-1567-26K (145441)		50			50	45105	45105		AB119		psw
G128-1568-1J (145442)		50			50	45105	45105		AB119		psw
G128-1568-2J (145443)		50			50	45105	45105		AB119		psw
G128-1568-3J (145444)		50			50	45105	45105		AB119		psw
G128-1568-4J (145445)		50			50	45105	45105		AB119		psw
G128-1568-5J (145446)		50			50	45105	45105		AB119		psw
G128-1568-6J (145447)		50			50	45105	45105		AB119		psw
G128-1568-7I (145448)		50			50	45105	45105		AB119		psw
G128-1568-8J (145449)		50			50	45105	45105		AB119		psw
G128-1568-9J (145450)		50			50	45105	45105		AB119		psw
G128-1568-9K (145451)	DUP	50			50	45105	45105		AB119		psw
G161-2083-1K (145429)		50			50	45105	45105		AB119		psw
G161-2083-1L (145430)	MS	50	0725-371,0725-372	1	50	45105	45105		AB119		psw
G161-2083-1M (145431)	MSD	50	0725-371,0725-372	1	50	45105	45105		AB119		psw
G161-2083-2H (145432)		50			50	45105	45105		AB119		psw
lcd3302	LCD	50	0725-371,0725-372	1	50	45105	45105		AB119		psw

lcs3302	LCS	50	0725–371,0725–372	1	50	45105	45105		AB119		psw
pb3302	PB	50			50	45105	45105		AB119		psw

Paradigm Analytical Labs

Inorganics Calibration Standards Log

Analyst	Date Made	Analysis	Standard Type	Batch ID	Source	Acid Lot #	Date Expires
RML	7-15-05	6010 TAL	CB	MS071505-1	Barnstead	44313	7-22-05
			S1		0516-354		
			S2				
			S3		0516-355		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0516-354		
PSW	7-18-05	6010 TAL	CB	OES071805-1	Barnstead	45105	7-25-05
			S1		0620-360		
			S2		0620-361, 0620-362 S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
RML	7-25-05	6020 TAL	CB	MS072505-1	Barnstead	44313	8-1-05
			S1		0725-369		
			S2				
			S3		0725-370		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0725-369		
PSW	7-26-05	6010 TAL	CB	OES072605-1	Barnstead	45105	8-2-05
			S1		0620-360		
			S2		0620-361 0620-362 S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
			Appl CHK		0620-364		

DWIGGINS PROPERTY
DATA VALIDATION PACKAGES

DWIGGINS PROPERTY CHECKLIST– July 2005 Sampling

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2081 Collected July 21, 2005	D1-5	
	D1-15	
	D1-25	
	D2-1	
	Dup-4 (QC)	
	Trip Blank (QC)	
	D2-5	

ARCADIS G&M, Inc
4915 Prospectus Drive, Suite F
Durham, North Carolina 27713
Tel 919-544-4535
Fax 919-544-5690

Project: Dwiggins Property

SOIL

Project Number:
NC105012 0001 RN001

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; and RCRA Metals/6010B and 7471.
QA Reporting Levels:	All samples received a Level II Data Validation.

FIELD DATA PACKAGE DOCUMENTATION

The review of the field documents for the samples included in this SDG was conducted by the field quality assurance officer and is not presented in this data validation checklist.

The following Field QC samples were collected in association with these July 2005 soil samples. It should be noted that field QC samples were collected at the appropriate frequency.

One blind field duplicate was collected during this sampling event:

- Dup-4 is the blind field duplicate for primary sample D1-15.

One Trip Blank sample was analyzed for VOCs/Method 8260.

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list	X				X
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

1. Although additional data were provided by the laboratory, a Level II data validation was performed on these data packages. Any Tentatively Identified Compounds (TICs) reported were not evaluated as part of this validation. Twenty-five percent of the data for each parameter was validated, with the directive that if serious quality control deficiencies were encountered, that the remainder of the data would be validated. No such deficiencies were encountered.

   The Chain-of-Custody and data pages for each of the laboratory data packages included in this validation are attached. Any qualifiers assigned to this data are detailed in the following sections, and are clearly marked on these data pages.

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Field (rinseate) blanks	X				X
D. Trip blanks		X		X	
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD)		X		X	
7. Laboratory Control Sample (LCS)		X		X	
8. Laboratory Control Sample Duplicate(LCSD)		X		X	
9. LCS/LCSD precision (RPD)		X		X	
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison		X		X	

VOCs - volatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
This section presents the review of USEPA Volatile Organics (VOC)/8260-5035 and Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH. Performance was acceptable, with the following exceptions and notes:

3A. The Method Blanks (MB) associated with each batch of samples did not detect any of the target compounds above the reporting limit.

3D. None of the target compounds were detected in the Trip Blank.

4-6. Sample D1-5 and D2-1 were used for the MS/MSD analyses. Although there were some deviations above the control limit, the associated sample results were nondetect and no action was required.

7-9. The LCS recoveries for VPH were within control limits. The full list of VOC LCS recoveries contained some deviations. However, the associated sample results were nondetect and no action was required.

10. The VOC surrogate recovery for 1,2-dichloroethane was above the control limit in samples Dup-4 and Trip Blank. However, all of the sample results in these samples were nondetect, and no action was required.

11. The field duplicate sample criteria were met for VOCs and VPH for blind field duplicate, Dup-4, and its primary sample, D1-15.

SEMIVOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times					
A. Extraction holding time		X		X	
B. Analysis holding time		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
C. Equipment Blanks	X				X
D. Field Blanks	X				X
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD))		X		X	
7. Laboratory control sample (LCS)		X		X	
8. LCS duplicate (LCSD)	X				X
9. LCS/LCSD precision (RPD)	X				X
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison	X				X

SVOCs - semivolatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
This section includes review of Semi-VOCs (SVOC)/8270-BN and Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH. Performance was acceptable, with the following exceptions and notes. Note that the laboratory reported N-Nitrosodiphenylamine as the breakdown product diphenylamine.

3A. The Method Blanks (MB) associated with these samples did not detect any of the target compounds above the reporting limit.

4-6. Sample D1-25 was used for the MS/MSD analysis. Pyrene had an MSD recovery above the control limit; however, this result in sample D1-25 was nondetect and no action was required.

7. The SVOC LCS recovery for 4-nitroaniline was above the control limit. However, this result was nondetect in our samples and no action was required.

METALS METHOD

Items Reviewed	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Field (rinseate) blanks	X				X
4. Laboratory control sample (LCS) %R		X		X	
5. Laboratory control sample duplicate (LCSD) %R		X		X	
6. LCS/LCSD RPD		X		X	
7. Matrix spike (MS) %R		X		X	
8. MS duplicate (MSD) %R		X		X	
9. MS/MSD RPD		X		X	
10. Field duplicate comparison	X				X
11. Total and dissolved metals comparison	X				X

%R - percent recovery RPD - relative percent difference MSD - matrix spike duplicate

Comments:
This section includes review of Method 6010B/7471 for RCRA Metals. Performance was acceptable, with the following exceptions and notes.

3A. None of the blanks detected any of the target metals at concentrations above the reporting limit.

4-6. The LCS/LCSD recoveries and RPD were within control limits.

7-9. Sample D2-1 was used for the MS/MSD analysis. The recoveries and RPD were within control limits.

DATA VALIDATION CHECKLIST
SUMMARY AND DATA QUALIFIER CODES

Paradigm Report # Date Collected	**Sample Identification(s)**	
G161-2081 Collected July 21, 2005	D1-5	
	D1-15	
	D1-25	
	D2-1	
	Dup-4 (QC)	
	Trip Blank (QC)	
	D2-5	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; and RCRA Metals/6010B and 7471.
QA Reporting Levels:	All samples received a Level II Data Validation

Explanation/Notes:
Analytical data submitted in the above referenced Paradigm Analytical reports were reviewed and evaluated using the USEPA National Functional Guidelines (NFG) for the Review of Organic Data, dated October 1999, NFG for the Review of Inorganic Data, dated October 2004, the method specific criteria, and professional judgment where applicable. Data validation qualifiers that were assigned are presented in the attached data sheets. A detailed description of quality control (QC) deficiencies is included in the corresponding data section. All other data are classified as quantitative.

VALIDATION PERFORMED BY
SIGNATURE:

DATE: April 26, 2006

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47997
Page 1 of 1

Client: ECS, Ltd
Address: 6909 International Dr, 103
Address: Greensboro, NC 27409
Quote #: 1842

Project ID: Driggins Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160

Date: 7/21/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:

Report To: jricks@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Meth	Na Bis		Analyses: 8260/5035	EDH	VPH	8270 BN	8260	Total RCRA metals	Dry Weight			
D1-5	7/21/05	9:49	S	X	X	X		X	X	X	X						
D1-15		9:54		X	X	X		X	X	X	X						
D1-25		10:02		X	X	X		X	X	X	X						
D2-1		10:32		X							X	X	X				
D2-5		10:34		X							X	X	X				
D3-1		10:53		X							X	X	X				
D3-5		10:54		X							X	X	X				
D3-15		10:59		X							X	X	X				
Dup-4		—		X				X	JR	X				X			
Trip Blank		—			X	X		X									

Comments: Please specify any special reporting requirements

City of Greensboro Project

G161-2081

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/21/05	5:30	[signature]	7/22/05	1030	0.2°C	NC ⊗ SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0519	1	7/28/2005
Benzene	BQL	0.00519	1	7/28/2005
Bromobenzene	BQL	0.00519	1	7/28/2005
Bromochloromethane	BQL	0.00519	1	7/28/2005
Bromodichloromethane	BQL	0.00519	1	7/28/2005
Bromoform	BQL	0.00519	1	7/28/2005
Bromomethane	BQL	0.00519	1	7/28/2005
2-Butanone	BQL	0.0259	1	7/28/2005
n-Butylbenzene	BQL	0.00519	1	7/28/2005
sec-Butylbenzene	BQL	0.00519	1	7/28/2005
tert-Butylbenzene	BQL	0.00519	1	7/28/2005
Carbon disulfide	BQL	0.00519	1	7/28/2005
Carbon tetrachloride	BQL	0.00519	1	7/28/2005
Chlorobenzene	BQL	0.00519	1	7/28/2005
Chloroethane	BQL	0.00519	1	7/28/2005
Chloroform	BQL	0.00519	1	7/28/2005
Chloromethane	BQL	0.00519	1	7/28/2005
2-Chlorotoluene	BQL	0.00519	1	7/28/2005
4-Chlorotoluene	BQL	0.00519	1	7/28/2005
Dibromochloromethane	BQL	0.00519	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00519	1	7/28/2005
Dibromomethane	BQL	0.00519	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00519	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00519	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00519	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00519	1	7/28/2005
1,1-Dichloroethane	BQL	0.00519	1	7/28/2005
1,1-Dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloroethane	BQL	0.00519	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00519	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00519	1	7/28/2005
1,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,3-Dichloropropane	BQL	0.00519	1	7/28/2005
2,2-Dichloropropane	BQL	0.00519	1	7/28/2005
1,1-Dichloropropene	BQL	0.00519	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00519	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00519	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00519	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00519	1	7/28/2005
Ethylbenzene	BQL	0.00519	1	7/28/2005
Hexachlorobutadiene	BQL	0.00519	1	7/28/2005
2-Hexanone	BQL	0.00519	1	7/28/2005
Iodomethane	BQL	0.00519	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-1A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:49
Date Received: 7/22/2005
Matrix: Soil
%Solids: 88.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00519	1	7/28/2005
4-Isopropyltoluene	BQL	0.00519	1	7/28/2005
Methylene chloride	BQL	0.0207	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00519	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00519	1	7/28/2005
Naphthalene	BQL	0.00519	1	7/28/2005
n-Propyl benzene	BQL	0.00519	1	7/28/2005
Styrene	BQL	0.00519	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00519	1	7/28/2005
Tetrachloroethene	BQL	0.00519	1	7/28/2005
Toluene	BQL	0.00519	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00519	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00519	1	7/28/2005
Trichloroethene	BQL	0.00519	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00519	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00519	1	7/28/2005
Trichlorofluoromethane	BQL	0.00519	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00519	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00519	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00519	1	7/28/2005
Vinyl chloride	BQL	0.00519	1	7/28/2005
m-,p-Xylene	BQL	0.0104	1	7/28/2005
o-Xylene	BQL	0.00519	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0584	117
1,2-Dichloroethane-d4	0.05	0.0824	165
Toluene-d8	0.05	0.0529	106

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0426	1	7/28/2005
Benzene	BQL	0.00426	1	7/28/2005
Bromobenzene	BQL	0.00426	1	7/28/2005
Bromochloromethane	BQL	0.00426	1	7/28/2005
Bromodichloromethane	BQL	0.00426	1	7/28/2005
Bromoform	BQL	0.00426	1	7/28/2005
Bromomethane	BQL	0.00426	1	7/28/2005
2-Butanone	BQL	0.0213	1	7/28/2005
n-Butylbenzene	BQL	0.00426	1	7/28/2005
sec-Butylbenzene	BQL	0.00426	1	7/28/2005
tert-Butylbenzene	BQL	0.00426	1	7/28/2005
Carbon disulfide	BQL	0.00426	1	7/28/2005
Carbon tetrachloride	BQL	0.00426	1	7/28/2005
Chlorobenzene	BQL	0.00426	1	7/28/2005
Chloroethane	BQL	0.00426	1	7/28/2005
Chloroform	BQL	0.00426	1	7/28/2005
Chloromethane	BQL	0.00426	1	7/28/2005
2-Chlorotoluene	BQL	0.00426	1	7/28/2005
4-Chlorotoluene	BQL	0.00426	1	7/28/2005
Dibromochloromethane	BQL	0.00426	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00426	1	7/28/2005
Dibromomethane	BQL	0.00426	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00426	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00426	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00426	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00426	1	7/28/2005
1,1-Dichloroethane	BQL	0.00426	1	7/28/2005
1,1-Dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloroethane	BQL	0.00426	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00426	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00426	1	7/28/2005
1,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,3-Dichloropropane	BQL	0.00426	1	7/28/2005
2,2-Dichloropropane	BQL	0.00426	1	7/28/2005
1,1-Dichloropropene	BQL	0.00426	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00426	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00426	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00426	1	7/28/2005
Ethylbenzene	BQL	0.00426	1	7/28/2005
Hexachlorobutadiene	BQL	0.00426	1	7/28/2005
2-Hexanone	BQL	0.00426	1	7/28/2005
Iodomethane	BQL	0.00426	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-2A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 09:54
Date Received: 7/22/2005
Matrix: Soil
%Solids: 86.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00426	1	7/28/2005
4-Isopropyltoluene	BQL	0.00426	1	7/28/2005
Methylene chloride	BQL	0.0170	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00426	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00426	1	7/28/2005
Naphthalene	BQL	0.00426	1	7/28/2005
n-Propyl benzene	BQL	0.00426	1	7/28/2005
Styrene	BQL	0.00426	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00426	1	7/28/2005
Tetrachloroethene	BQL	0.00426	1	7/28/2005
Toluene	BQL	0.00426	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00426	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00426	1	7/28/2005
Trichloroethene	BQL	0.00426	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00426	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00426	1	7/28/2005
Trichlorofluoromethane	BQL	0.00426	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00426	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00426	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00426	1	7/28/2005
Vinyl chloride	BQL	0.00426	1	7/28/2005
m-,p-Xylene	BQL	0.00852	1	7/28/2005
o-Xylene	BQL	0.00426	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0574	115
1,2-Dichloroethane-d4	0.05	0.0845	169
Toluene-d8	0.05	0.0534	107

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0421	1	7/29/2005
Benzene	BQL	0.00421	1	7/29/2005
Bromobenzene	BQL	0.00421	1	7/29/2005
Bromochloromethane	BQL	0.00421	1	7/29/2005
Bromodichloromethane	BQL	0.00421	1	7/29/2005
Bromoform	BQL	0.00421	1	7/29/2005
Bromomethane	BQL	0.00421	1	7/29/2005
2-Butanone	BQL	0.0211	1	7/29/2005
n-Butylbenzene	BQL	0.00421	1	7/29/2005
sec-Butylbenzene	BQL	0.00421	1	7/29/2005
tert-Butylbenzene	BQL	0.00421	1	7/29/2005
Carbon disulfide	BQL	0.00421	1	7/29/2005
Carbon tetrachloride	BQL	0.00421	1	7/29/2005
Chlorobenzene	BQL	0.00421	1	7/29/2005
Chloroethane	BQL	0.00421	1	7/29/2005
Chloroform	BQL	0.00421	1	7/29/2005
Chloromethane	BQL	0.00421	1	7/29/2005
2-Chlorotoluene	BQL	0.00421	1	7/29/2005
4-Chlorotoluene	BQL	0.00421	1	7/29/2005
Dibromochloromethane	BQL	0.00421	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00421	1	7/29/2005
Dibromomethane	BQL	0.00421	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00421	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00421	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00421	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0.00421	1	7/29/2005
1,1-Dichloroethane	BQL	0.00421	1	7/29/2005
1,1-Dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloroethane	BQL	0.00421	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00421	1	7/29/2005
trans-1,2-dichloroethene	BQL	0.00421	1	7/29/2005
1,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,3-Dichloropropane	BQL	0.00421	1	7/29/2005
2,2-Dichloropropane	BQL	0.00421	1	7/29/2005
1,1-Dichloropropene	BQL	0.00421	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00421	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00421	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00421	1	7/29/2005
Ethylbenzene	BQL	0.00421	1	7/29/2005
Hexachlorobutadiene	BQL	0.00421	1	7/29/2005
2-Hexanone	BQL	0.00421	1	7/29/2005
Iodomethane	BQL	0.00421	1	7/29/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-3A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:02
Date Received: 7/22/2005
Matrix: Soil
%Solids: 91.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00421	1	7/29/2005
4-Isopropyltoluene	BQL	0.00421	1	7/29/2005
Methylene chloride	BQL	0.0168	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00421	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00421	1	7/29/2005
Naphthalene	BQL	0.00421	1	7/29/2005
n-Propyl benzene	BQL	0.00421	1	7/29/2005
Styrene	BQL	0.00421	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00421	1	7/29/2005
Tetrachloroethene	BQL	0.00421	1	7/29/2005
Toluene	BQL	0.00421	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00421	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00421	1	7/29/2005
Trichloroethene	BQL	0.00421	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00421	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00421	1	7/29/2005
Trichlorofluoromethane	BQL	0.00421	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00421	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00421	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00421	1	7/29/2005
Vinyl chloride	BQL	0.00421	1	7/29/2005
m-,p-Xylene	BQL	0.00842	1	7/29/2005
o-Xylene	BQL	0.00421	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0586	117
1,2-Dichloroethane-d4	0.05	0.0601	120
Toluene-d8	0.05	0.0506	101

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90 9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0550	1	7/29/2005
Benzene	BQL	0.00550	1	7/29/2005
Bromobenzene	BQL	0.00550	1	7/29/2005
Bromochloromethane	BQL	0.00550	1	7/29/2005
Bromodichloromethane	BQL	0.00550	1	7/29/2005
Bromoform	BQL	0.00550	1	7/29/2005
Bromomethane	BQL	0.00550	1	7/29/2005
2-Butanone	BQL	0.0275	1	7/29/2005
n-Butylbenzene	BQL	0.00550	1	7/29/2005
sec-Butylbenzene	BQL	0.00550	1	7/29/2005
tert-Butylbenzene	BQL	0.00550	1	7/29/2005
Carbon disulfide	BQL	0.00550	1	7/29/2005
Carbon tetrachloride	BQL	0.00550	1	7/29/2005
Chlorobenzene	BQL	0.00550	1	7/29/2005
Chloroethane	BQL	0.00550	1	7/29/2005
Chloroform	BQL	0.00550	1	7/29/2005
Chloromethane	BQL	0.00550	1	7/29/2005
2-Chlorotoluene	BQL	0.00550	1	7/29/2005
4-Chlorotoluene	BQL	0.00550	1	7/29/2005
Dibromochloromethane	BQL	0.00550	1	7/29/2005
1,2-Dibromo-3-chloropropane	BQL	0.00550	1	7/29/2005
Dibromomethane	BQL	0.00550	1	7/29/2005
1,2-Dibromoethane (EDB)	BQL	0.00550	1	7/29/2005
1,2-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,3-Dichlorobenzene	BQL	0.00550	1	7/29/2005
1,4-Dichlorobenzene	BQL	0.00550	1	7/29/2005
trans-1,4-Dichloro-2-butene	BQL	0 00550	1	7/29/2005
1,1-Dichloroethane	BQL	0.00550	1	7/29/2005
1,1-Dichloroethene	BQL	0.00550	1	7/29/2005
1,2-Dichloroethane	BQL	0.00550	1	7/29/2005
cis-1,2-Dichloroethene	BQL	0.00550	1	7/29/2005
trans-1,2-dichloroethene	BQL	0 00550	1	7/29/2005
1,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,3-Dichloropropane	BQL	0.00550	1	7/29/2005
2,2-Dichloropropane	BQL	0.00550	1	7/29/2005
1,1-Dichloropropene	BQL	0.00550	1	7/29/2005
cis-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
trans-1,3-Dichloropropene	BQL	0.00550	1	7/29/2005
Dichlorodifluoromethane	BQL	0.00550	1	7/29/2005
Diisopropyl ether (DIPE)	BQL	0.00550	1	7/29/2005
Ethylbenzene	BQL	0.00550	1	7/29/2005
Hexachlorobutadiene	BQL	0.00550	1	7/29/2005
2-Hexanone	BQL	0.00550	1	7/29/2005
Iodomethane	BQL	0.00550	1	7/29/2005

Results for Volatiles
by GCMS 8260-5030

Client Sample ID: D2-1
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-4A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 10:32
Date Received: 7/22/2005
Matrix: Soil
%Solids: 90.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00550	1	7/29/2005
4-Isopropyltoluene	BQL	0.00550	1	7/29/2005
Methylene chloride	BQL	0.0220	1	7/29/2005
4-Methyl-2-pentanone	BQL	0.00550	1	7/29/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00550	1	7/29/2005
Naphthalene	BQL	0.00550	1	7/29/2005
n-Propyl benzene	BQL	0.00550	1	7/29/2005
Styrene	BQL	0.00550	1	7/29/2005
1,1,1,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
1,1,2,2-Tetrachloroethane	BQL	0.00550	1	7/29/2005
Tetrachloroethene	BQL	0.00550	1	7/29/2005
Toluene	BQL	0.00550	1	7/29/2005
1,2,3-Trichlorobenzene	BQL	0.00550	1	7/29/2005
1,2,4-Trichlorobenzene	BQL	0.00550	1	7/29/2005
Trichloroethene	BQL	0.00550	1	7/29/2005
1,1,1-Trichloroethane	BQL	0.00550	1	7/29/2005
1,1,2-Trichloroethane	BQL	0.00550	1	7/29/2005
Trichlorofluoromethane	BQL	0.00550	1	7/29/2005
1,2,3-Trichloropropane	BQL	0.00550	1	7/29/2005
1,2,4-Trimethylbenzene	BQL	0.00550	1	7/29/2005
1,3,5-Trimethylbenzene	BQL	0.00550	1	7/29/2005
Vinyl chloride	BQL	0.00550	1	7/29/2005
m-,p-Xylene	BQL	0.0110	1	7/29/2005
o-Xylene	BQL	0.00550	1	7/29/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0612	122
1,2-Dichloroethane-d4	0.05	0.062	124
Toluene-d8	0.05	0.0513	103

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86 8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0403	1	7/28/05
Benzene	BQL	0.00403	1	7/28/05
Bromobenzene	BQL	0.00403	1	7/28/05
Bromochloromethane	BQL	0.00403	1	7/28/05
Bromodichloromethane	BQL	0.00403	1	7/28/05
Bromoform	BQL	0.00403	1	7/28/05
Bromomethane	BQL	0.00403	1	7/28/05
2-Butanone	BQL	0.0201	1	7/28/05
n-Butylbenzene	BQL	0.00403	1	7/28/05
sec-Butylbenzene	BQL	0.00403	1	7/28/05
tert-Butylbenzene	BQL	0.00403	1	7/28/05
Carbon disulfide	BQL	0.00403	1	7/28/05
Carbon tetrachloride	BQL	0.00403	1	7/28/05
Chlorobenzene	BQL	0.00403	1	7/28/05
Chloroethane	BQL	0.00403	1	7/28/05
Chloroform	BQL	0.00403	1	7/28/05
Chloromethane	BQL	0.00403	1	7/28/05
2-Chlorotoluene	BQL	0.00403	1	7/28/05
4-Chlorotoluene	BQL	0.00403	1	7/28/05
Dibromochloromethane	BQL	0.00403	1	7/28/05
1,2-Dibromo-3-chloropropane	BQL	0.00403	1	7/28/05
Dibromomethane	BQL	0.00403	1	7/28/05
1,2-Dibromoethane (EDB)	BQL	0.00403	1	7/28/05
1,2-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,3-Dichlorobenzene	BQL	0.00403	1	7/28/05
1,4-Dichlorobenzene	BQL	0.00403	1	7/28/05
trans-1,4-Dichloro-2-butene	BQL	0.00403	1	7/28/05
1,1-Dichloroethane	BQL	0.00403	1	7/28/05
1,1-Dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloroethane	BQL	0.00403	1	7/28/05
cis-1,2-Dichloroethene	BQL	0.00403	1	7/28/05
trans-1,2-dichloroethene	BQL	0.00403	1	7/28/05
1,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,3-Dichloropropane	BQL	0.00403	1	7/28/05
2,2-Dichloropropane	BQL	0.00403	1	7/28/05
1,1-Dichloropropene	BQL	0.00403	1	7/28/05
cis-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
trans-1,3-Dichloropropene	BQL	0.00403	1	7/28/05
Dichlorodifluoromethane	BQL	0.00403	1	7/28/05
Diisopropyl ether (DIPE)	BQL	0.00403	1	7/28/05
Ethylbenzene	BQL	0.00403	1	7/28/05
Hexachlorobutadiene	BQL	0.00403	1	7/28/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-4
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-9A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/05
Matrix: Soil
%Solids: 86 8

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00403	1	7/28/05
Iodomethane	BQL	0.00403	1	7/28/05
Isopropylbenzene	BQL	0.00403	1	7/28/05
4-Isopropyltoluene	BQL	0.00403	1	7/28/05
Methylene chloride	BQL	0.0161	1	7/28/05
4-Methyl-2-pentanone	BQL	0.00403	1	7/28/05
Methyl-tert-butyl ether (MTBE)	BQL	0 00403	1	7/28/05
Naphthalene	BQL	0.00403	1	7/28/05
n-Propyl benzene	BQL	0.00403	1	7/28/05
Styrene	BQL	0.00403	1	7/28/05
1,1,1,2-Tetrachloroethane	BQL	0 00403	1	7/28/05
1,1,2,2-Tetrachloroethane	BQL	0.00403	1	7/28/05
Tetrachloroethene	BQL	0.00403	1	7/28/05
Toluene	BQL	0.00403	1	7/28/05
1,2,3-Trichlorobenzene	BQL	0.00403	1	7/28/05
1,2,4-Trichlorobenzene	BQL	0.00403	1	7/28/05
Trichloroethene	BQL	0.00403	1	7/28/05
1,1,1-Trichloroethane	BQL	0.00403	1	7/28/05
1,1,2-Trichloroethane	BQL	0 00403	1	7/28/05
Trichlorofluoromethane	BQL	0.00403	1	7/28/05
1,2,3-Trichloropropane	BQL	0.00403	1	7/28/05
1,2,4-Trimethylbenzene	BQL	0.00403	1	7/28/05
1,3,5-Trimethylbenzene	BQL	0.00403	1	7/28/05
Vinyl chloride	BQL	0.00403	1	7/28/05
m-,p-Xylene	BQL	0.00805	1	7/28/05
o-Xylene	BQL	0.00403	1	7/28/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0 0577	115
1,2-Dichloroethane-d4	0.05	0.0879	176 #
Toluene-d8	0.05	0 0535	107

Comments:
= Surrogate recovery above limit. Confirmed by duplicate analysis.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/28/2005
Benzene	BQL	0.00500	1	7/28/2005
Bromobenzene	BQL	0.00500	1	7/28/2005
Bromochloromethane	BQL	0.00500	1	7/28/2005
Bromodichloromethane	BQL	0.00500	1	7/28/2005
Bromoform	BQL	0.00500	1	7/28/2005
Bromomethane	BQL	0.00500	1	7/28/2005
2-Butanone	BQL	0.0250	1	7/28/2005
n-Butylbenzene	BQL	0.00500	1	7/28/2005
sec-Butylbenzene	BQL	0.00500	1	7/28/2005
tert-Butylbenzene	BQL	0.00500	1	7/28/2005
Carbon disulfide	BQL	0.00500	1	7/28/2005
Carbon tetrachloride	BQL	0.00500	1	7/28/2005
Chlorobenzene	BQL	0.00500	1	7/28/2005
Chloroethane	BQL	0.00500	1	7/28/2005
Chloroform	BQL	0.00500	1	7/28/2005
Chloromethane	BQL	0.00500	1	7/28/2005
2-Chlorotoluene	BQL	0.00500	1	7/28/2005
4-Chlorotoluene	BQL	0.00500	1	7/28/2005
Dibromochloromethane	BQL	0.00500	1	7/28/2005
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/28/2005
Dibromomethane	BQL	0.00500	1	7/28/2005
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/28/2005
1,2-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,3-Dichlorobenzene	BQL	0.00500	1	7/28/2005
1,4-Dichlorobenzene	BQL	0.00500	1	7/28/2005
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/28/2005
1,1-Dichloroethane	BQL	0.00500	1	7/28/2005
1,1-Dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloroethane	BQL	0.00500	1	7/28/2005
cis-1,2-Dichloroethene	BQL	0.00500	1	7/28/2005
trans-1,2-dichloroethene	BQL	0.00500	1	7/28/2005
1,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,3-Dichloropropane	BQL	0.00500	1	7/28/2005
2,2-Dichloropropane	BQL	0.00500	1	7/28/2005
1,1-Dichloropropene	BQL	0.00500	1	7/28/2005
cis-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
trans-1,3-Dichloropropene	BQL	0.00500	1	7/28/2005
Dichlorodifluoromethane	BQL	0.00500	1	7/28/2005
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/28/2005
Ethylbenzene	BQL	0.00500	1	7/28/2005
Hexachlorobutadiene	BQL	0.00500	1	7/28/2005
2-Hexanone	BQL	0.00500	1	7/28/2005
Iodomethane	BQL	0.00500	1	7/28/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Dwiggins Property
Lab Sample ID G161-2081-10A
Lab Project ID: G161-2081
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-21-2005 00:00
Date Received: 7/22/2005
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00500	1	7/28/2005
4-Isopropyltoluene	BQL	0.00500	1	7/28/2005
Methylene chloride	BQL	0.0200	1	7/28/2005
4-Methyl-2-pentanone	BQL	0.00500	1	7/28/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/28/2005
Naphthalene	BQL	0.00500	1	7/28/2005
n-Propyl benzene	BQL	0.00500	1	7/28/2005
Styrene	BQL	0.00500	1	7/28/2005
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/28/2005
Tetrachloroethene	BQL	0.00500	1	7/28/2005
Toluene	BQL	0.00500	1	7/28/2005
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/28/2005
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/28/2005
Trichloroethene	BQL	0.00500	1	7/28/2005
1,1,1-Trichloroethane	BQL	0.00500	1	7/28/2005
1,1,2-Trichloroethane	BQL	0.00500	1	7/28/2005
Trichlorofluoromethane	BQL	0.00500	1	7/28/2005
1,2,3-Trichloropropane	BQL	0.00500	1	7/28/2005
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/28/2005
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/28/2005
Vinyl chloride	BQL	0.00500	1	7/28/2005
m-,p-Xylene	BQL	0.0100	1	7/28/2005
o-Xylene	BQL	0.00500	1	7/28/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0563	113
1,2-Dichloroethane-d4	0.05	0.0891	178 #
Toluene-d8	0.05	0.0534	107

Comments:
Surrogate recoveries could not be confirmed by duplicate analysis. Only one vial was received.

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.343	1	7/27/2005
Acenaphthylene	BQL	0.343	1	7/27/2005
Anthracene	BQL	0.343	1	7/27/2005
Benzo[a]anthracene	BQL	0.343	1	7/27/2005
Benzo[a]pyrene	BQL	0.343	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.343	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.343	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.343	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.343	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.343	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.343	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.343	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.343	1	7/27/2005
Butylbenzylphthalate	BQL	0.343	1	7/27/2005
2-Chloronaphthalene	BQL	0.343	1	7/27/2005
4-Chloroaniline	BQL	1.71	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.343	1	7/27/2005
Chrysene	BQL	0.343	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.343	1	7/27/2005
Dibenzofuran	BQL	0.343	1	7/27/2005
Di-n-Butylphthalate	BQL	0.343	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.343	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.343	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.686	1	7/27/2005
Diethylphthalate	BQL	0.343	1	7/27/2005
Dimethylphthalate	BQL	0.343	1	7/27/2005
Di-n-octylphthalate	BQL	0.343	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.343	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.343	1	7/27/2005
Diphenylamine *	BQL	0.343	1	7/27/2005
Fluoranthene	BQL	0.343	1	7/27/2005
Fluorene	BQL	0.343	1	7/27/2005
Hexachlorobenzene	BQL	0.343	1	7/27/2005
Hexachlorobutadiene	BQL	0.343	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.686	1	7/27/2005
Hexachloroethane	BQL	0.343	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.343	1	7/27/2005
Isophorone	BQL	0.343	1	7/27/2005
2-Methylnaphthalene	BQL	0.343	1	7/27/2005
Naphthalene	BQL	0.343	1	7/27/2005
2-Nitroaniline	BQL	0.343	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-5
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-1H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:49
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 88.59

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.71	1	7/27/2005
4-Nitroaniline	BQL	1.71	1	7/27/2005
Nitrobenzene	BQL	0.343	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.343	1	7/27/2005
Phenanthrene	BQL	0.343	1	7/27/2005
Pyrene	BQL	0.343	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.343	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	11.2	112
Nitrobenzene-d5	10	11	110
4-Terphenyl-d14	10	12.9	129

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.337	1	7/27/2005
Acenaphthylene	BQL	0.337	1	7/27/2005
Anthracene	BQL	0.337	1	7/27/2005
Benzo[a]anthracene	BQL	0.337	1	7/27/2005
Benzo[a]pyrene	BQL	0.337	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.337	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.337	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.337	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.337	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.337	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.337	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.337	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.337	1	7/27/2005
Butylbenzylphthalate	BQL	0.337	1	7/27/2005
2-Chloronaphthalene	BQL	0.337	1	7/27/2005
4-Chloroaniline	BQL	1.68	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.337	1	7/27/2005
Chrysene	BQL	0.337	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.337	1	7/27/2005
Dibenzofuran	BQL	0.337	1	7/27/2005
Di-n-Butylphthalate	BQL	0.337	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.337	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.337	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.674	1	7/27/2005
Diethylphthalate	BQL	0.337	1	7/27/2005
Dimethylphthalate	BQL	0.337	1	7/27/2005
Di-n-octylphthalate	BQL	0.337	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.337	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.337	1	7/27/2005
Diphenylamine *	BQL	0.337	1	7/27/2005
Fluoranthene	BQL	0.337	1	7/27/2005
Fluorene	BQL	0.337	1	7/27/2005
Hexachlorobenzene	BQL	0.337	1	7/27/2005
Hexachlorobutadiene	BQL	0.337	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.674	1	7/27/2005
Hexachloroethane	BQL	0.337	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.337	1	7/27/2005
Isophorone	BQL	0.337	1	7/27/2005
2-Methylnaphthalene	**0.357**	0.337	1	7/27/2005
Naphthalene	BQL	0.337	1	7/27/2005
2-Nitroaniline	BQL	0.337	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-15
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-2H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 9:54
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 86.32

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.68	1	7/27/2005
4-Nitroaniline	BQL	1.68	1	7/27/2005
Nitrobenzene	BQL	0.337	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.337	1	7/27/2005
Phenanthrene	BQL	0.337	1	7/27/2005
Pyrene	BQL	0.337	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.337	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.8	98
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	13.1	131

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.327	1	7/27/2005
Acenaphthylene	BQL	0.327	1	7/27/2005
Anthracene	BQL	0.327	1	7/27/2005
Benzo[a]anthracene	BQL	0.327	1	7/27/2005
Benzo[a]pyrene	BQL	0.327	1	7/27/2005
Benzo[b]fluoranthene	BQL	0.327	1	7/27/2005
Benzo[g,h,i]perylene	BQL	0.327	1	7/27/2005
Benzo[k]fluoranthene	BQL	0.327	1	7/27/2005
Bis(2-chloroethoxy)methane	BQL	0.327	1	7/27/2005
Bis(2-chloroethyl)ether	BQL	0.327	1	7/27/2005
Bis(2-chloroisopropyl)ether	BQL	0.327	1	7/27/2005
Bis(2-ethylhexyl)phthalate	BQL	0.327	1	7/27/2005
4-bromophenyl phenyl ether	BQL	0.327	1	7/27/2005
Butylbenzylphthalate	BQL	0.327	1	7/27/2005
2-Chloronaphthalene	BQL	0.327	1	7/27/2005
4-Chloroaniline	BQL	1.64	1	7/27/2005
4-Chlorophenyl phenyl ether	BQL	0.327	1	7/27/2005
Chrysene	BQL	0.327	1	7/27/2005
Dibenzo[a,h]anthracene	BQL	0.327	1	7/27/2005
Dibenzofuran	BQL	0.327	1	7/27/2005
Di-n-Butylphthalate	BQL	0.327	1	7/27/2005
1,2-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,3-Dichlorobenzene	BQL	0.327	1	7/27/2005
1,4-Dichlorobenzene	BQL	0.327	1	7/27/2005
3,3'-Dichlorobenzidine	BQL	0.655	1	7/27/2005
Diethylphthalate	BQL	0.327	1	7/27/2005
Dimethylphthalate	BQL	0.327	1	7/27/2005
Di-n-octylphthalate	BQL	0.327	1	7/27/2005
2,4-Dinitrotoluene	BQL	0.327	1	7/27/2005
2,6-Dinitrotoluene	BQL	0.327	1	7/27/2005
Diphenylamine *	BQL	0.327	1	7/27/2005
Fluoranthene	BQL	0.327	1	7/27/2005
Fluorene	BQL	0.327	1	7/27/2005
Hexachlorobenzene	BQL	0.327	1	7/27/2005
Hexachlorobutadiene	BQL	0.327	1	7/27/2005
Hexachlorocyclopentadiene	BQL	0.655	1	7/27/2005
Hexachloroethane	BQL	0.327	1	7/27/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.327	1	7/27/2005
Isophorone	BQL	0.327	1	7/27/2005
2-Methylnaphthalene	BQL	0.327	1	7/27/2005
Naphthalene	BQL	0.327	1	7/27/2005
2-Nitroaniline	BQL	0.327	1	7/27/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: D1-25
Client Project ID: Dwiggins Property
Lab Sample ID: G161-2081-3H
Lab Project ID: G161-2081
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/21/2005 10:02
Date Received: 7/22/2005
Date Extracted: 7/26/2005
Matrix: Soil
% Solids: 91.18

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.64	1	7/27/2005
4-Nitroaniline	BQL	1.64	1	7/27/2005
Nitrobenzene	BQL	0.327	1	7/27/2005
N-Nitrosodi-n-propylamine	BQL	0.327	1	7/27/2005
Phenanthrene	BQL	0.327	1	7/27/2005
Pyrene	BQL	0.327	1	7/27/2005
1,2,4-Trichlorobenzene	BQL	0.327	1	7/27/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.4	104
Nitrobenzene-d5	10	10.7	107
4-Terphenyl-d14	10	13.6	136

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	89
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-1e

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-15
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	86
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-2e

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Dup-4
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	87
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-9e

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	Trip Blank
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/21/05
Date Analyzed	07/25/05
Dry Weight	100
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2081-10b

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Dwiggins Property

Sample Information and Analytical Results	
Sample Identification	D1-5
Sample Matrix	Soil
Date Collected	07/21/05
Date Received	07/22/05
Date Extracted	07/27/05
Date Analyzed	07/28/05
Dry Weight	88.6
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	85

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2081-1I

Reviewed By: [illegible]

Results for Metals

Client Sample ID:	D2-1	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:32
Lab Sample ID:	G161-2081-4	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	90.93
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.982	1	MG/KG	6010B	7/26/2005
Barium	**60.9**	9.82	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	0.982	1	MG/KG	6010B	7/26/2005
Chromium	**14.4**	0.982	1	MG/KG	6010B	7/26/2005
Lead	**18.0**	0.982	1	MG/KG	6010B	7/26/2005
Mercury	**0.0249**	0.0207	1	MG/KG	7471	7/29/2005
Selenium	BQL	1.96	1	MG/KG	6010B	7/26/2005
Silver	BQL	0.982	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.1

Results for Metals

Client Sample ID:	D2-5	Analyzed By:	PSW
Client Project ID:	Dwiggins Property	Date Collected:	7/21/2005 10:34
Lab Sample ID:	G161-2081-5	Date Received:	7/22/2005
Lab Project ID:	G161-2081	Matrix:	SOIL
Batch ID:	3300 3327	Solids	77.74
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	1.17	1	MG/KG	6010B	7/26/2005
Barium	**62.1**	11.7	1	MG/KG	6010B	7/26/2005
Cadmium	BQL	1.17	1	MG/KG	6010B	7/26/2005
Chromium	**21.2**	1.17	1	MG/KG	6010B	7/26/2005
Lead	**39.7**	1.17	1	MG/KG	6010B	7/26/2005
Mercury	**0.0377**	0.0222	1	MG/KG	7471	7/29/2005
Selenium	BQL	2.34	1	MG/KG	6010B	7/26/2005
Silver	BQL	1.17	1	MG/KG	6010B	7/26/2005

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: _____

MET_LIMS_3.1

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2103

Client Project: Gaddy Property

Dear Mr. Ricks:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

8/18/05

Laboratory Director Date
J. Patrick Weaver

CASE NARRATIVE

Date: November 14, 2005

ECS Project ID: Gaddy Property
Paradigm Analytical ID: G161-2103

Two water samples and trip blank were received at the laboratory August 4 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

All extractions and analyses were completed with in holding time. The following discussion summarizes quality control results and exceptions by parameter.

601/602

All samples passed surrogate spike limits..

All MS/MSD pairs and LCSs passed recovery limits for the method required spiking compounds.

625 BN

The sample passed surrogate spike limits.

MS/MSD and LCS passed all acceptance limits for method required spiking compounds.

VPH

The sample passed surrogate spike limits.

The MS/MSD pair passed acceptance limits.

The LCS passed acceptance limits.

EPH

The samples passed surrogate spike limits.

The MS/MSD had high recovery for C9 to C18 aliphatics while the other fractions passed limits.

The data was validated with the passing LCS recoveries

.Metals

The MS/MSD and LCS/LCD pairs passed all recovery criteria.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34 011404.1

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 43664

Page 1 **of** 1

Client: ECS, Ltd **Project ID:** SR ~~G-95~~ Gaddy Property **Date:** 8/3/05 **Report To:** jricks@ecslimited.com
Address: 6909 International Dr, 103 **Contact:** Jason Ricks **Turnaround:** Standard
Address: Greensboro, NC 27409 **Phone:** (336)856-7150 **Job Number:** G-9506
Quote #: 1842 **Fax:** 856-7160 **P.O. Number:** **Invoice To:**

Sample ID	Date	Time	Matrix	Preservatives: HCL	None	HNO_3		Analyses: 601/602	504.1 EDB	EPH	VPH	625 BN+10 TICS	3030C-Pb					Comments: Please specify any special reporting requirements
GDmw-1	8/3/05	10:45	GW	X	X	X		X	X	X	X	X	X					City of Greensboro Project
Equip Blank-5	↓	11:05	↓	X				X										
Trip Blank	↓	–	↓	X				X										
																		G161-2103

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	8/3/05	3:30	[signature]	8/4/05	1030	21°C

State Certification Requested
NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Results for Volatiles
by GC 601

Client Sample ID: GDMW-1
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-1B
Lab Project ID: G161-2103

Analyzed By: MJC
Date Collected: 8/3/2005 10:45
Date Received: 8/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	8/10/2005
Bromoform	BQL	2.00	1	8/10/2005
Bromomethane	BQL	1.00	1	8/10/2005
Carbon tetrachloride	BQL	1.00	1	8/10/2005
Chlorobenzene	BQL	1.00	1	8/10/2005
Chloroethane	BQL	1.00	1	8/10/2005
Chloroform	BQL	1.00	1	8/10/2005
Chloromethane	BQL	1.00	1	8/10/2005
Dibromochloromethane	BQL	1.00	1	8/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	8/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,1-Dichloroethane	BQL	1.00	1	8/10/2005
1,2-Dichloroethane	BQL	1.00	1	8/10/2005
1,1-Dichloroethene	BQL	1.00	1	8/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
1,2-Dichloropropane	BQL	1.00	1	8/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
Methylene Chloride	BQL	5.00	1	8/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	8/10/2005
Tetrachloroethene	BQL	1.00	1	8/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	8/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	8/10/2005
Trichloroethene	BQL	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	BQL	1.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	41.3	103

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: RJV

Results for Volatiles
by GC 601

Client Sample ID: Equip Blank-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-2B
Lab Project ID: G161-2103

Analyzed By: MJC
Date Collected: 8/3/2005 11:05
Date Received: 8/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	8/10/2005
Bromoform	BQL	2.00	1	8/10/2005
Bromomethane	BQL	1.00	1	8/10/2005
Carbon tetrachloride	BQL	1.00	1	8/10/2005
Chlorobenzene	BQL	1.00	1	8/10/2005
Chloroethane	BQL	1.00	1	8/10/2005
Chloroform	BQL	1.00	1	8/10/2005
Chloromethane	BQL	1.00	1	8/10/2005
Dibromochloromethane	BQL	1.00	1	8/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	8/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,1-Dichloroethane	BQL	1.00	1	8/10/2005
1,2-Dichloroethane	BQL	1.00	1	8/10/2005
1,1-Dichloroethene	BQL	1.00	1	8/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
1,2-Dichloropropane	BQL	1.00	1	8/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
Methylene Chloride	BQL	5.00	1	8/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	8/10/2005
Tetrachloroethene	BQL	1.00	1	8/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	8/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	8/10/2005
Trichloroethene	BQL	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	BQL	1.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.7	102

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: Trip Blank
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-3B
Lab Project ID: G161-2103

Analyzed By: MJC
Date Collected: 8/3/2005 0:00
Date Received: 8/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	8/10/2005
Bromoform	BQL	2.00	1	8/10/2005
Bromomethane	BQL	1.00	1	8/10/2005
Carbon tetrachloride	BQL	1.00	1	8/10/2005
Chlorobenzene	BQL	1.00	1	8/10/2005
Chloroethane	BQL	1.00	1	8/10/2005
Chloroform	BQL	1.00	1	8/10/2005
Chloromethane	BQL	1.00	1	8/10/2005
Dibromochloromethane	BQL	1.00	1	8/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	8/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,1-Dichloroethane	BQL	1.00	1	8/10/2005
1,2-Dichloroethane	BQL	1.00	1	8/10/2005
1,1-Dichloroethene	BQL	1.00	1	8/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
1,2-Dichloropropane	BQL	1.00	1	8/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
Methylene Chloride	BQL	5.00	1	8/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	8/10/2005
Tetrachloroethene	BQL	1.00	1	8/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	8/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	8/10/2005
Trichloroethene	BQL	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	BQL	1.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.3	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID:	GDMW-1	Analyzed By:	MJC
Client Project ID:	Gaddy Property	Date Collected:	8/3/2005 10:45
Lab Sample ID:	G161-2103-1B	Date Received:	8/4/2005
Lab Project ID:	G161-2103	Matrix:	Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	8/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	8/10/2005
Ethylbenzene	BQL	1.00	1	8/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	8/10/2005
Toluene	BQL	1.00	1	8/10/2005
m/p-Xylene	BQL	2.00	1	8/10/2005
o-Xylene	BQL	2.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: Equip Blank-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-2B
Lab Project ID: G161-2103

Analyzed By: MJC
Date Collected: 8/3/2005 11:05
Date Received: 8/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	8/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	8/10/2005
Ethylbenzene	BQL	1.00	1	8/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	8/10/2005
Toluene	BQL	1.00	1	8/10/2005
m/p-Xylene	BQL	2.00	1	8/10/2005
o-Xylene	BQL	2.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.9

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: Trip Blank
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-3B
Lab Project ID: G161-2103

Analyzed By: MJC
Date Collected: 8/3/2005 0:00
Date Received: 8/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	8/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	8/10/2005
Ethylbenzene	BQL	1.00	1	8/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	8/10/2005
Toluene	BQL	1.00	1	8/10/2005
m/p-Xylene	BQL	2.00	1	8/10/2005
o-Xylene	BQL	2.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.3	98.3

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

II

601 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (DCB) #	QC LIMITS	TOT OUT
01	GDMW-1	G161-2103-1A	029F0101.D	103	70 - 130	
02	Equip Blank-5	G161-2103-2A	030F0101.D	102	70 - 130	
03	Trip Blank	G161-2103-3A	027F0101.D	101	70 - 130	
04						
05						
06						
07						
08						
09						
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S1 (DCB) = 1,4-dichlorobutane

Paradigm Analytical Laboratories, INC.

IV

601 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3080905B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3080905B Lab File ID: 026F0101.D

Date Analyzed: 2005-08-09 Instrument ID: GC3

Time Analyzed: 20:58 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	Trip Blank	G161-2103-3A	027F0101.D	2005-08-09 21:28
02	GDMW-1	G161-2103-1A	029F0101.D	2005-08-09 22:31
03	Equip Blank-5	G161-2103-2A	030F0101.D	2005-08-09 23:02
04				
05				
06				
07				
08				
09				
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11				
12				
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COMMENTS:

Paradigm Analytical Laboratories, INC.

II

602 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (TFT) #	QC LIMITS	TOT OUT
01	GDMW-1	G161-2103-1A	029R0101.D	100	70 - 130	0
02	Equip Blank-5	G161-2103-2A	030R0101.D	99.9	70 - 130	0
03	Trip Blank	G161-2103-3A	027R0101.D	98.3	70 - 130	0
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S1 (TFT) = trifluorotoluene

Paradigm Analytical Laboratories, INC.

IV

602 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3080905B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3080905B Lab File ID: 026R0101.D

Date Analyzed: 2005-08-09 Instrument ID: GC3

Time Analyzed: 20:58 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	Trip Blank	G161-2103-3A	027R0101.D	2005-08-09 21:28
02	GDMW-1	G161-2103-1A	029R0101.D	2005-08-09 22:31
03	Equip Blank-5	G161-2103-2A	030R0101.D	2005-08-09 23:02
04				
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09				
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COMMENTS:

Results for Volatiles
by GC 601

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1081005A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	8/10/2005
Bromoform	BQL	2.00	1	8/10/2005
Bromomethane	BQL	1.00	1	8/10/2005
Carbon tetrachloride	BQL	1.00	1	8/10/2005
Chlorobenzene	BQL	1.00	1	8/10/2005
Chloroethane	BQL	1.00	1	8/10/2005
Chloroform	BQL	1.00	1	8/10/2005
Chloromethane	BQL	1.00	1	8/10/2005
Dibromochloromethane	BQL	1.00	1	8/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	8/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	8/10/2005
1,1-Dichloroethane	BQL	1.00	1	8/10/2005
1,2-Dichloroethane	BQL	1.00	1	8/10/2005
1,1-Dichloroethene	BQL	1.00	1	8/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	8/10/2005
1,2-Dichloropropane	BQL	1.00	1	8/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	8/10/2005
Methylene Chloride	BQL	5.00	1	8/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	8/10/2005
Tetrachloroethene	BQL	1.00	1	8/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	8/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	8/10/2005
Trichloroethene	BQL	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	BQL	1.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.3	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc1
Filename : 081005\006f0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Bromodichloromethane	9.8	97.8	76.0	124.0	98	42	172
Bromoform	8.5	84.8	73.5	126.5	85	13	159
Bromomethane	7.2	72.0	58.5	141.5	72	D	144
Carbon tetrachloride	10.4	104.4	68.5	131.5	104	43	143
Chlorobenzene	10.5	105.4	72.0	128.0	105	38	150
Chloroethane	9.6	96.3	77.0	123.0	96	46	137
Chloroform	9.4	94.2	75.0	125.0	94	49	133
Chloromethane	10.2	102.1	59.5	140.5	102	D	193
Dibromochloromethane	9.2	91.7	65.5	134.5	92	24	191
• 1,2-Dibromoethane	9.0	89.6	13.6	186.4	90	D	206
1,2-Dichlorobenzene	10.2	101.9	70.0	130.0	102	D	208
1,3-Dichlorobenzene	10.2	102.2	49.5	150.5	102	7	187
1,4-Dichlorobenzene	10.5	105.4	69.5	130.5	105	42	143
1,1-Dichloroethane	10.0	99.6	84.0	116.0	100	47	132
1,2-Dichloroethane	9.9	98.7	71.5	128.5	99	51	147
1,1-Dichloroethene	9.8	98.0	63.0	137.0	98	28	167
• cis-1,2-Dichloroethene	9.6	96.2	34.4	180.6	96	19	181
trans-1,2-Dichloroethene	10.0	99.7	64.0	136.0	100	38	155
1,2-Dichloropropane	10.0	99.7	74.0	126.0	100	44	156
cis-1,3-Dichloropropene	10.1	100.8	64.0	136.0	101	22	178
trans-1,3-Dichloropropene	9.6	95.6	64.0	136.0	96	22	178
Methylene Chloride	9.7	97.2	77.5	122.5	97	25	162
1,1,2,2-Tertrachloroethane	9.8	98.4	49.0	151.0	98	8	184
Tetrachloroethane	9.5	94.5	70.0	130.0	95	26	162
1,1,1-Trichloroethane	10.3	103.5	71.0	129.0	103	41	138
1,1,2-Trichloroethane	9.8	98.3	78.5	121.5	98	39	136
Trichloroethene	9.3	93.3	77.0	123.0	93	35	146
Trichlorofluromethane	9.3	92.8	66.5	133.5	93	21	156
Vinyl Chloride	10.2	102.3	68.5	131.5	102	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc1
Filename : 081005\006r0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Benzene	9.3	93.0	77.0	123.0	93	39	150
Chlorobenzene	9.4	93.9	80.5	119.5	94	55	135
1,2-Dichlorobenzene	9.2	91.7	68.0	132.0	92	37	154
1,3-Dichlorobenzene	9.4	94.3	72.5	127.5	94	50	141
1,4-Dichlorobenzene	9.5	94.8	69.5	130.5	95	42	143
• Diisopropyl ether	8.9	89.1	43.1	156.9	89	30	170
Ethylbenzene	9.4	94.3	63.0	137.0	94	32	160
• MTBE	9.2	92.4	46.8	153.2	92	35	165
Toluene	9.5	94.6	77.5	127.0	95	46	148
• m,p-Xylene	19.2	96.1	11.2	188.8	96	D	239
• o-Xylene	9.5	95.4	47.6	152.4	95	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by: _____

Control Limits for MS-MSD

Method : 601 **Spike[ppb] :** 10
Instrument : gc1
Sample : 081005\021r0101.txt
MS : 081005\022r0101.txt
MSD : 081005\023r0101.txt

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	9.8	9.8	98	98	42	172
Bromoform	ND	9.0	8.5	90	85	13	159
Bromomethane	ND	5.6	6.5	52	61	D	144
Carbon tetrachloride	ND	10.8	10.6	108	106	43	143
Chlorobenzene	ND	9.9	10.0	99	100	38	150
Chloroethane	ND	9.9	10.0	99	100	46	137
Chloroform	ND	9.5	9.6	95	96	49	133
Chloromethane	ND	10.0	10.0	100	100	D	193
Dibromochloromethane	ND	9.1	9.3	91	93	24	191
• 1,2-Dibromoethane	ND	9.2	8.9	92	89	D	206
1,2-Dichlorobenzene	ND	10.0	10.0	100	100	D	208
1,3-Dichlorobenzene	ND	10.0	9.8	100	98	7	187
1,4-Dichlorobenzene	ND	10.3	10.0	103	100	42	143
1,1-Dichloroethane	ND	10.1	10.1	101	101	47	132
1,2-Dichloroethane	ND	10.1	10.2	101	102	51	147
1,1-Dichloroethene	ND	10.0	10.1	100	101	28	167
• cis-1,2-Dichloroethene	ND	10.8	10.8	99	99	19	181
trans-1,2-Dichloroethene	ND	9.9	9.9	99	99	38	155
1,2-Dichloropropane	ND	10.2	10.3	102	103	44	156
cis-1,3-Dichloropropene	ND	10.1	10.2	101	102	22	178
trans-1,3-Dichloropropene	ND	9.3	9.4	93	94	22	178
Methylene Chloride	ND	9.6	9.6	94	95	25	162
1,1,2,2-Tertrachloroethane	ND	9.8	9.8	98	98	8	184
Tetrachloroethane	ND	9.7	9.4	97	94	26	162
1,1,1-Trichloroethane	ND	10.3	11.1	103	111	41	138
1,1,2-Trichloroethane	ND	9.7	9.9	97	99	39	136
Trichloroethene	13.53	23.7	23.7	102	101	35	146
Trichlorofluromethane	ND	8.9	8.8	89	88	21	156
Vinyl Chloride	ND	9.3	9.4	93	94	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc1
Sample : 081005\021r0101.txt
MS : 081005\022r0101.txt
MSD : 081005\023r0101.txt

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	15.9	25.6	25.3	97	94	39	150
Chlorobenzene	ND	9.4	9.1	92	90	55	135
1,2-Dichlorobenzene	ND	9.0	8.7	85	81	37	154
1,3-Dichlorobenzene	ND	9.3	9.0	89	85	50	141
1,4-Dichlorobenzene	ND	9.5	9.0	92	88	42	143
• Diisopropyl ether	ND	9.2	9.3	89	90	30	170
Ethylbenzene	ND	9.5	9.2	91	88	32	160
• MTBE	ND	9.1	9.0	91	90	35	165
Toluene	ND	9.6	9.4	94	92	46	148
• m,p-Xylene	ND	18.9	18.2	93	89	D	239
• o-Xylene	ND	9.3	9.0	92	89	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected
ND = None Detected

Reviewed by: PJ

Results for Volatiles
by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1081005A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	8/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	8/10/2005
Ethylbenzene	BQL	1.00	1	8/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	8/10/2005
Toluene	BQL	1.00	1	8/10/2005
m/p-Xylene	BQL	2.00	1	8/10/2005
o-Xylene	BQL	2.00	1	8/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GDMW-1
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-1M
Lab Project ID: G161-2103

Analyzed By: MRC
Date Collected: 8/3/2005 10:45
Date Received: 8/4/2005
Date Extracted: 8/9/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	8/12/2005
Acenaphthylene	BQL	10.0	1	8/12/2005
Anthracene	BQL	10.0	1	8/12/2005
Benzo[a]anthracene	BQL	10.0	1	8/12/2005
Benzo[a]pyrene	BQL	10.0	1	8/12/2005
Benzo[b]fluoranthene	BQL	10.0	1	8/12/2005
Benzo[g,h,i]perylene	BQL	10.0	1	8/12/2005
Benzo[k]fluoranthene	BQL	10.0	1	8/12/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	8/12/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	8/12/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	8/12/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	8/12/2005
4-bromophenyl phenyl ether	BQL	10.0	1	8/12/2005
Butylbenzylphthalate	BQL	10.0	1	8/12/2005
2-Chloronaphthalene	BQL	10.0	1	8/12/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	8/12/2005
Chrysene	BQL	10.0	1	8/12/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	8/12/2005
Di-n-Butylphthalate	BQL	10.0	1	8/12/2005
1,2-Dichlorobenzene	BQL	10.0	1	8/12/2005
1,3-Dichlorobenzene	BQL	10.0	1	8/12/2005
1,4-Dichlorobenzene	BQL	10.0	1	8/12/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	8/12/2005
Diethylphthalate	BQL	10.0	1	8/12/2005
Dimethylphthalate	BQL	10.0	1	8/12/2005
Di-n-octylphthalate	BQL	10.0	1	8/12/2005
2,4-Dinitrotoluene	BQL	10.0	1	8/12/2005
2,6-Dinitrotoluene	BQL	10.0	1	8/12/2005
Diphenylamine *	BQL	10.0	1	8/12/2005
Fluoranthene	BQL	10.0	1	8/12/2005
Fluorene	BQL	10.0	1	8/12/2005
Hexachlorobenzene	BQL	10.0	1	8/12/2005
Hexachlorobutadiene	BQL	10.0	1	8/12/2005
Hexachlorocyclopentadiene	BQL	20.0	1	8/12/2005
Hexachloroethane	BQL	10.0	1	8/12/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	8/12/2005
Isophorone	BQL	10.0	1	8/12/2005
Naphthalene	BQL	10.0	1	8/12/2005
Nitrobenzene	BQL	10.0	1	8/12/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	8/12/2005
Phenanthrene	BQL	10.0	1	8/12/2005
Pyrene	BQL	10.0	1	8/12/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GDMW-1
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-1M
Lab Project ID: G161-2103

Analyzed By: MRC
Date Collected: 8/3/2005 10:45
Date Received: 8/4/2005
Date Extracted: 8/9/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	8/12/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
Nitrobenzene-d5	10	8.2	82
4-Terphenyl-d14	10	13.7	137

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: GDMW-1
Client Project ID: Gaddy Property
Lab Sample ID: G161-2103-1M
Lab Project ID: G161-2103
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 8/3/2005 10:45
Date Received: 8/4/2005
Date Extracted: 8/9/2005
Date Analyzed: 8/12/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Compound peak (added by lab)	11.64			198
2	Know Solvent peak (added by lab)	3.71			114
3	Know Compound peak (added by lab)	12.08			4.3
4	Unknown	4.84			3.31
5	Unknown	5.63			3.07
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by:

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3409
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 8/9/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	8/10/2005
Acenaphthylene	BQL	10.0	1	8/10/2005
Anthracene	BQL	10.0	1	8/10/2005
Benzo[a]anthracene	BQL	10.0	1	8/10/2005
Benzo[a]pyrene	BQL	10.0	1	8/10/2005
Benzo[b]fluoranthene	BQL	10.0	1	8/10/2005
Benzo[g,h,i]perylene	BQL	10.0	1	8/10/2005
Benzo[k]fluoranthene	BQL	10.0	1	8/10/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	8/10/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	8/10/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	8/10/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	8/10/2005
4-bromophenyl phenyl ether	BQL	10.0	1	8/10/2005
Butylbenzylphthalate	BQL	10.0	1	8/10/2005
2-Chloronaphthalene	BQL	10.0	1	8/10/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	8/10/2005
Chrysene	BQL	10.0	1	8/10/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	8/10/2005
Di-n-Butylphthalate	BQL	10.0	1	8/10/2005
1,2-Dichlorobenzene	BQL	10.0	1	8/10/2005
1,3-Dichlorobenzene	BQL	10.0	1	8/10/2005
1,4-Dichlorobenzene	BQL	10.0	1	8/10/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	8/10/2005
Diethylphthalate	BQL	10.0	1	8/10/2005
Dimethylphthalate	BQL	10.0	1	8/10/2005
Di-n-octylphthalate	BQL	10.0	1	8/10/2005
2,4-Dinitrotoluene	BQL	10.0	1	8/10/2005
2,6-Dinitrotoluene	BQL	10.0	1	8/10/2005
Diphenylamine *	BQL	10.0	1	8/10/2005
Fluoranthene	BQL	10.0	1	8/10/2005
Fluorene	BQL	10.0	1	8/10/2005
Hexachlorobenzene	BQL	10.0	1	8/10/2005
Hexachlorobutadiene	BQL	10.0	1	8/10/2005
Hexachlorocyclopentadiene	BQL	20.0	1	8/10/2005
Hexachloroethane	BQL	10.0	1	8/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	8/10/2005
Isophorone	BQL	10.0	1	8/10/2005
Naphthalene	BQL	10.0	1	8/10/2005
Nitrobenzene	BQL	10.0	1	8/10/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	8/10/2005
Phenanthrene	BQL	10.0	1	8/10/2005
Pyrene	BQL	10.0	1	8/10/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3409
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 8/9/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	8/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
Nitrobenzene-d5	10	9.3	93
4-Terphenyl-d14	10	13.3	133

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3409
Lab Project ID:
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 8/9/2005
Date Analyzed: 8/12/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Compound peak (added by lab)	10.80			149
2	Know Solvent peak (added by lab)	2.87			108
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Paradigm Analytical Laboratories, INC.

2C

WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #				TOT OUT
01	GDMW-1	82	76	137				0
02	G537-162-42E	101	91	135				0
03	G537-162-42F MS	102	107	105				0
04	G537-162-42G MSD	104	111	107				0
05	LCS3409	101	117	104				0
06	PB3409	93	96	133				0
07								
08								
09								
10								
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	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(44-112)
S2 (FBP) = 2-Fluorobiphenyl	(22-142)
S3 (TPH) = Terphenyl-d14	(46-118)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G537-162-42E

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	214	230	107 *	214	236	110 *	2.85	30	55.0-106
Acenaphthylene	BQL	214	243	113	214	250	116	2.61	30	62.0-119
Anthracene	BQL	214	232	108 *	214	233	109 *	0.461	30	44.0-96.0
Benzo[a]anthracene	BQL	214	213	99.3	214	215	100	1.10	30	50.0-109
Benzo[a]pyrene	BQL	214	252	117 *	214	250	117 *	0.513	30	39.0-100
Benzo[b]fluoranthene	BQL	214	241	112 *	214	241	112 *	0.178	30	34.0-105
Benzo[g,h,i]perylene	BQL	214	235	109	214	239	112	1.99	30	36.0-116
Benzo[k]fluoranthene	BQL	214	281	131 *	214	295	138 *	4.99	30	26.0-120
Benzoic Acid	BQL	214	157	73.0	214	146	68.3	6.65	30	44.0-107
Benzyl Alcohol	BQL	214	202	94.4	214	207	96.6	2.30	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	214	222	104 *	214	222	103 *	0.0967	30	58.0-101
Bis(2-chloroethyl)ether	BQL	214	188	87.7	214	189	88.0	0.341	30	47.0-93.0
Bis(2-chloroisopropyl)ether	BQL	214	202	93.9	214	208	97.1	3.35	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	214	222	104	214	237	110	6.17	30	46.0-131
4-bromophenyl phenyl ether	BQL	214	239	111	214	244	114 *	2.04	30	36.0-112
Butylbenzylphthalate	BQL	214	236	110	214	248	116	5.14	30	54.0-117
4-Chloroaniline	BQL	214	217	101	214	219	102	0.885	30	12.0-198
4-Chloro-3-methylphenol	BQL	214	208	97.2	214	205	95.6	1.66	30	67.0-98.0
2-Chloronaphthalene	BQL	214	239	111 *	214	331	154 *	32.3 *	30	54.0-105
2-Chlorophenol	BQL	214	196	91.4	214	201	93.8	2.59	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	214	231	108	214	240	112	4.00	30	51.0-114
Chrysene	BQL	214	243	113	214	248	116 *	2.19	30	52.0-114
Di-n-Butylphthalate	BQL	214	236	110	214	241	112 *	1.98	30	53.0-111
Di-n-octylphthalate	BQL	214	253	118 *	214	260	121 *	2.76	30	22.0-113
Dibenzo[a,h]anthracene	BQL	214	224	104	214	228	106	1.52	30	33.0-117
Dibenzofuran	BQL	214	210	97.8	214	216	101	3.12	30	62.0-108
1,2-Dichlorobenzene	BQL	214	177	82.7	214	189	87.9	6.10	30	31.0-93.0
1,3-Dichlorobenzene	BQL	214	168	78.1	214	178	83.2	6.32	30	25.0-87.0
1,4-Dichlorobenzene	BQL	214	172	80.2	214	187	87.1 *	8.25	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	214	255	119	214	249	116	2.47	30	10.0-383
2,4-Dichlorophenol	BQL	214	209	97.6 *	214	211	98.2 *	0.613	30	61.0-97.0
Diethylphthalate	BQL	214	240	112 *	214	247	115 *	3.00	30	65.0-102
2,4-Dimethylphenol	BQL	214	165	77.1	214	164	76.3	1.04	30	29.0-110
Dimethylphthalate	BQL	214	232	108 *	214	238	111 *	2.65	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	214	202	94.3	214	196	91.4	3.12	30	46.0-104
2,4-Dinitrophenol	BQL	214	195	91.1	214	193	90.1	1.10	30	47.0-109
2,4-Dinitrotoluene	BQL	214	240	112 *	214	249	116 *	3.33	30	63.0-103
2,6-Dinitrotoluene	BQL	214	242	113 *	214	250	117 *	3.31	30	61.0-101
Fluoranthene	BQL	214	233	108	214	229	107	1.58	30	49.0-109
Fluorene	BQL	214	238	111 *	214	246	115 *	3.28	30	58.0-108
Hexachlorobenzene	BQL	214	231	108	214	235	110	1.93	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 48 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3C

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G537-162-42E

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	214	207	96.3 *	214	211	98.4 *	2.16	30	26.0-95.0
Hexachlorocyclopentadiene	BQL	214	119	55.3	214	104	48.3	13.5	30	10.0-113
Hexachloroethane	BQL	214	160	74.6	214	174	80.9	8.10	30	15.0-96.0
Indeno(1,2,3-c,d)pyrene	BQL	214	218	102	214	223	104	2.43	30	34.0-111
Isophorone	BQL	214	260	121 *	214	264	123 *	1.72	30	65.0-112
1-Methylnaphthalene	BQL	214	220	102	214	222	103	0.777	30	48.0-121
2-Methylnaphthalene	BQL	214	194	90.6	214	194	90.2	0.442	30	45.0-121
2-Methylphenol	BQL	214	197	91.9	214	202	94.3	2.58	30	62.0-99.0
4-Methylphenol	BQL	429	366	85.3	429	375	87.4	2.43	30	51.0-102
N-Nitrosodi-n-propylamine	BQL	214	220	103	214	223	104	1.16	30	67.0-107
Diphenylamine	BQL	214	444	207 *	214	452	210 *	1.63	30	24.0-114
Naphthalene	BQL	214	220	102	214	221	103	0.682	30	25.0-131
2-Nitroaniline	BQL	214	256	119	214	263	123	2.73	30	54.0-135
3-Nitroaniline	BQL	214	212	99.0	214	218	102	2.79	30	10.0-594
4-Nitroaniline	BQL	214	310	144	214	296	138	4.75	30	30.0-153
Nitrobenzene	BQL	214	230	107 *	214	232	108 *	1.02	30	57.0-98.0
2-Nitrophenol	BQL	214	198	92.4	214	202	94.2	1.93	30	50.0-97.0
4-Nitrophenol	BQL	214	199	92.7	214	188	87.6	5.66	30	49.0-146
Pentachlorophenol	BQL	214	167	77.8	214	164	76.4	1.82	30	43.0-106
Phenanthrene	BQL	214	231	108	214	232	108 *	0.741	30	53.0-108
Phenol	BQL	214	209	97.5	214	210	97.8	0.307	30	61.0-100
Pyrene	BQL	214	267	124 *	214	280	131 *	4.94	30	41.0-123
1,2,4-Trichlorobenzene	BQL	214	208	96.7 *	214	212	98.7 *	2.05	30	41.0-96.0
2,4,5-Trichlorophenol	BQL	214	211	98.2	214	218	102 *	3.40	30	62.0-100
2,4,6-Trichlorophenol	BQL	214	207	96.4 *	214	215	100 *	3.76	30	61.0-96.0

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 48 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3409

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0810711.D Lab Sample ID: PB3409

Instrument ID: MSD7 Date Extracted: 08/09/05

Matrix: (soil/water) WATER Date Analyzed: 08/10/05

Level: (low/med) LOW Time Analyzed: 16:12

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G537-162-42F MS	G537-162-42F MS	0810713.D	08/10 21:54
02	G537-162-42G MSD	G537-162-42G MSD	0810714.D	08/10 22:30
03	G537-162-42E	G537-162-42E	0812604.D	08/12 09:25
04	GDMW-1	G161-2103-1M	0812605.D	08/12 10:00
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0721601.D DFTPP Injection Date: 07/21/05

Instrument ID: MSD6 DFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.9
68	Less than 2.0% of mass 69	0.8
69	Mass 69 relative abundance	47.1
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	47.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	86.1
442	40.0 - 100.0% of mass 198	59.8
443	17.0 - 23.0% of mass 442	18.6

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL1	SVCAL1	0721602.D	07/21/05	09:18
02	SVCAL2	SVCAL2	0721603.D	07/21/05	09:52
03	SVCAL4	SVCAL4	0721604.D	07/21/05	10:25
04	SVCAL6	SVCAL6	0721605.D	07/21/05	11:00
05	SVCAL8	SVCAL8	0721606.D	07/21/05	11:34
06	SVCAL12	SVCAL12	0721607.D	07/21/05	12:08
07	SVCAL24	SVCAL24	0721608.D	07/21/05	12:42
08	SVCAL48	SVCAL48	0721609.D	07/21/05	13:16
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0812601.D DFTPP Injection Date: 08/12/05

Instrument ID: MSD6 DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.8
68	Less than 2.0% of mass 69	0.9
69	Mass 69 relative abundance	49.7
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	49.8
197	Less than 1.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 0.75% of mass 198	2.2
441	Present, but less than mass 443	81.7
442	40.0 - 100.0% of mass 198	65.8
443	17.0 - 23.0% of mass 442	18.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS6	SVCVS6	0812602.D	08/12/05	08:17
02	G537-162-42E	G537-162-42E	0812604.D	08/12/05	09:25
03	GDMW-1	G161-2103-1M	0812605.D	08/12/05	10:00
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0804701.D DFTPP Injection Date: 08/04/05

Instrument ID: MSD7 DFTPP Injection Time: 08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	32.7
70	Less than 2.0% of mass 69	0.6
127	40.0 - 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 0.75% of mass 198	2.7
441	Present, but less than mass 443	73.2
442	40.0 - 100.0% of mass 198	95.5
443	17.0 - 23.0% of mass 442	19.0

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL01	SVCAL01	0804702.D	08/04/05	09:01
02	SVCAL02	SVCAL02	0804703.D	08/04/05	09:37
03	SVCAL04	SVCAL04	0804704.D	08/04/05	10:11
04	SVCAL06	SVCAL06	0804705.D	08/04/05	11:25
05	SVCAL08	SVCAL08	0804706.D	08/04/05	12:00
06	SVCAL12	SVCAL12	0804707.D	08/04/05	12:34
07	SVCAL24	SVCAL24	0804708.D	08/04/05	13:08
08	SVCAL48	SVCAL48	0804709.D	08/04/05	13:42
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0810701.D DFTPP Injection Date: 08/10/05

Instrument ID: MSD7 DFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	30.8
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	43.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.2
365	Greater than 0.75% of mass 198	3.0
441	Present, but less than mass 443	72.6
442	40.0 - 100.0% of mass 198	99.4
443	17.0 - 23.0% of mass 442	19.1

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS6	SVCVS6	0810702.D	08/10/05	11:04
02	PB3409	PB3409	0810711.D	08/10/05	16:12
03	LCS3409	LCS3409	0810712.D	08/10/05	16:45
04	G537-162-42F MS	G537-162-42F MS	0810713.D	08/10/05	17:19
05	G537-162-42G MSD	G537-162-42G MSD	0810714.D	08/10/05	17:54
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Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine	0.743	0.573	0.956	0.949	1.06	0.948	1.08		0.901	20.1
N-Nitrosodimethylamine	0.662	0.585	0.661	0.671	0.628	0.696	0.688	0.648	0.655	5.41
Phenol	1.91	1.84	1.80	1.85	1.75	1.72	1.76	1.60	1.78	5.31
Bis(2-chloroethyl)ether	1.51	1.35	1.35	1.38	1.36	1.51	1.47	1.33	1.41	5.30
2-Chlorophenol	1.45	1.41	1.36	1.40	1.31	1.33	1.34	1.26	1.36	4.48
Benzyl Alcohol	1.01	0.947	0.934	0.977	0.912	0.953	0.969	0.922	0.953	3.42
1,3-Dichlorobenzene	1.39	1.35	1.34	1.35	1.29	1.31	1.30	1.24	1.32	3.47
1,4-Dichlorobenzene	1.41	1.36	1.39	1.38	1.32	1.32	1.34	1.28	1.35	3.25
1,2-Dichlorobenzene	1.31	1.30	1.25	1.26	1.19	1.19	1.19	1.13	1.23	5.12
2-Methylphenol	1.22	1.14	1.12	1.14	1.07	1.08	1.10	1.04	1.11	5.12
3-, 4-Methylphenol	1.79	1.64	1.62	1.64	1.56	1.58	1.63	1.53	1.62	4.81
Bis(2-chloroisopropyl)ether	1.76	1.63	1.65	1.65	1.55	1.59	1.60	1.48	1.61	5.13
N-Nitrosodi-n-propylamine	0.910	0.875	0.835	0.879	0.794	0.828	0.860	0.798	0.847	4.82
Hexachloroethane	0.583	0.523	0.513	0.530	0.502	0.519	0.535	0.505	0.526	4.83
2-Fluorophenol (surr)	0.972	0.989	1.01	1.02	1.02	1.04	1.05	0.994	1.01	2.43
Phenol-d6 (surr)	1.72	1.62	1.58	1.63	1.56	1.58	1.60	1.50	1.60	3.92
Nitrobenzene	0.408	0.370	0.377	0.393	0.357	0.382	0.375	0.356	0.377	4.70
Isophorone	0.613	0.570	0.564	0.589	0.540	0.573	0.560	0.531	0.568	4.58
2-Nitrophenol	0.207	0.202	0.196	0.189	0.170	0.179	0.175	0.165	0.185	8.45
2,4-Dimethylphenol	0.285	0.259	0.260	0.263	0.255	0.264	0.257	0.249	0.262	3.98
Benzoic Acid	0.166	0.117	0.137	0.148	0.146	0.171	0.179		0.152	14.2
Bis(2-chloroethoxy)methane	0.422	0.386	0.386	0.393	0.357	0.374	0.361	0.350	0.379	6.20
2,4-Dichlorophenol	0.304	0.269	0.271	0.289	0.260	0.277	0.266	0.257	0.274	5.75
1,2,4-Trichlorobenzene	0.323	0.303	0.283	0.295	0.271	0.281	0.271	0.261	0.286	7.07
Naphthalene	0.954	0.904	0.880	0.910	0.826	0.866	0.837	0.812	0.874	5.52
4-Chloroaniline	0.167	0.184	0.142		0.110	0.101	0.146	0.141	0.142	20.5
Hexachlorobutadiene	0.192	0.175	0.184	0.184	0.164	0.180	0.171	0.162	0.176	5.96
4-Chloro-3-methylphenol	0.347	0.310	0.314	0.328	0.300	0.326	0.326	0.312	0.320	4.48
2-Methylnaphthalene	0.700	0.644	0.644	0.656	0.601	0.630	0.612	0.602	0.636	5.20
Nitrobenzene-d5 (surr)	0.152	0.140	0.141	0.149	0.132	0.142	0.138	0.132	0.141	5.13
Hexachlorocyclopentadiene	0.148	0.088	0.098	0.111	0.091	0.118	0.106	0.129	0.111	18.2
2,4,6-Trichlorophenol	0.405	0.347	0.358	0.374	0.341	0.362	0.348	0.347	0.360	5.86
2,4,5-Trichlorophenol	0.405	0.354	0.364	0.375	0.340	0.373	0.356	0.356	0.365	5.33
2-Chloronaphthalene	1.11	1.02	0.982	1.01	0.929	0.998	0.932	0.925	0.989	6.44
2-Nitroaniline	0.365	0.329	0.333	0.350	0.312	0.334	0.342	0.331	0.337	4.69

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline	0.097	0.069	0.063		0.04	0.037	0.051	0.087	0.063	35.8
1-Methylnaphthalene	1.10	1.01	0.981	1.02	0.938	0.981	0.918	0.923	0.984	6.12
Dimethylphthalate	1.28	1.14	1.13	1.19	1.08	1.15	1.09	1.08	1.14	5.84
Acenaphthylene	1.52	1.36	1.32	1.35	1.25	1.29	1.21	1.01	1.29	11.3
2,6-Dinitrotoluene	0.278	0.226	0.237	0.253	0.236	0.254	0.245	0.241	0.246	6.45
Acenaphthene	0.976	0.896	0.891	0.912	0.835	0.877	0.841	0.843	0.884	5.30
2,4-Dinitrophenol	0.115	0.08	0.103	0.113	0.112	0.132	0.126	0.135	0.115	15.2
4-Nitrophenol	0.158	0.115	0.136	0.147	0.132	0.156	0.155	0.165	0.146	11.4
Dibenzofuran	1.59	1.46	1.43	1.46	1.34	1.42	1.36	1.35	1.42	5.78
2,4-Dinitrotoluene	0.347	0.280	0.311	0.303	0.289	0.304	0.298	0.303	0.304	6.47
Fluorene	1.13	1.05	1.07	1.10	0.994	1.07	1.01	1.02	1.06	4.37
Diethylphthalate	1.14	1.03	1.06	1.09	0.993	1.07	1.01	0.991	1.05	4.91
4-Chlorophenyl phenyl ether	0.600	0.570	0.559	0.577	0.533	0.552	0.517	0.512	0.553	5.52
4-Nitroaniline	0.133	0.099	0.124	0.132	0.115	0.116	0.099		0.117	12.0
2-Fluorobiphenyl (surr)	1.30	1.15	1.14	1.17	1.06	1.12	1.05	1.05	1.13	7.42
2,4,6-Tribromophenol (surr)	0.119	0.111	0.113	0.115	0.114	0.125	0.119	0.126	0.118	4.65
4,6-Dinitro-2-methylphenol	0.131	0.088	0.113	0.122	0.118	0.135	0.131	0.136	0.122	13.1
Diphenylamine	0.432	0.483	0.436	0.459	0.376	0.339	0.332		0.408	14.6
4-bromophenyl phenyl ether	0.235	0.241	0.227	0.228	0.208	0.214	0.204	0.196	0.219	7.32
Hexachlorobenzene	0.231	0.212	0.209	0.225	0.202	0.207	0.199	0.192	0.210	6.26
Pentachlorophenol	0.148	0.112	0.135	0.144	0.135	0.148	0.142	0.144	0.139	8.51
Phenanthrene	1.09	1.03	1.01	1.04	0.954	0.981	0.947	0.918	0.995	5.71
Carbazole	0.377	0.510	0.353	0.429	0.351				0.404	16.5
Anthracene	1.03	0.938	0.910	0.971	0.879	0.914	0.875	0.856	0.921	6.07
Azobenzene	0.937	0.907	0.876	0.910	0.820	0.857	0.830	0.781	0.865	6.11
Di-n-Butylphthalate	1.34	1.27	1.22	1.25	1.17	1.19	1.14	1.11	1.21	6.12
Fluoranthene	1.06	1.00	1.00	1.06	0.959	1.03	0.971	0.976	1.01	3.84
alpha-BHC	0.180	0.165	0.159		0.152	0.157	0.148	0.134	0.156	9.11
beta-BHC	0.133	0.124	0.128		0.120	0.128	0.120	0.115	0.124	4.94
gamma-BHC	0.144	0.124	0.130		0.126	0.131	0.125	0.118	0.128	6.42
delta-BHC	0.127	0.114	0.114		0.114	0.118	0.113	0.108	0.116	5.25
Heptachlor	0.166	0.148	0.146		0.146	0.151	0.150	0.141	0.150	5.26
Aldrin	0.177	0.169	0.163		0.159	0.158	0.153	0.144	0.160	6.62
Heptachlor Epoxide	0.054	0.055	0.055		0.055	0.057	0.053	0.054	0.055	2.20
Endosulfan I	0.042	0.043	0.041		0.043	0.042	0.039	0.034	0.04	7.62

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date(s): 07/21/05

Calibration Times: 13:16

LAB FILE ID: RRF1.0 = 0721602.D RRF2.0 = 0721603.D RRF4.0 = 0721604.D RRF6.0 = 0721605.D

RRF8.0 = 0721606.D RRF12.0 = 0721607.D RRF24.0 = 0721608.D RRF48.0 = 0721609.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.255	0.224	0.235		0.228	0.240	0.228	0.226	0.234	4.58
Dieldrin	0.213	0.215	0.198		0.198	0.201	0.190	0.184	0.200	5.67
Endrin	0.037	0.028	0.032		0.032	0.036	0.038	0.037	0.034	10.3
4,4'-DDD	0.450	0.420	0.421		0.402	0.425	0.397	0.367	0.412	6.38
Endosulfan Sulfate	0.06	0.05	0.052		0.052	0.054	0.052	0.037	0.051	13.2
4,4'-DDT	0.377	0.303	0.312		0.301	0.320	0.321	0.290	0.318	8.99
Endrin Ketone	0.045	0.038	0.044		0.044	0.047	0.043	0.037	0.042	8.88
Methoxychlor	0.807	0.665	0.676		0.695	0.722	0.669	0.561	0.685	10.7
Pyrene	1.50	1.46	1.44	1.44	1.30	1.36	1.41	1.56	1.43	5.51
Butylbenzylphthalate	0.745	0.697	0.682	0.722	0.658	0.695	0.717	0.684	0.700	3.91
Benzo[a]anthracene	1.35	1.24	1.25	1.31	1.20	1.26	1.25	1.24	1.26	3.60
3,3'-Dichlorobenzidine	0.200	0.204	0.190	0.210	0.182	0.172	0.186	0.196	0.193	6.46
Chrysene	1.10	1.03	1.04	1.08	1.02	1.04	1.03	1.01	1.04	2.94
Bis(2-ethylhexyl)phthalate	1.00	0.977	0.936	0.972	0.875	0.910	0.929	0.885	0.935	4.81
4-Terphenyl-d14 (surr)	1.04	0.977	0.984	0.981	0.906	0.949	0.991	1.10	0.991	5.76
Di-n-octylphthalate	2.36	2.21	2.18	2.37	2.22	2.53	2.46	2.23	2.32	5.51
Benzo[b]fluoranthene	1.36	1.30	1.34	1.40	1.30	1.43	1.37	1.33	1.36	3.54
Benzo[k]fluoranthene	1.34	1.24	1.28	1.36	1.26	1.38	1.29	1.14	1.28	5.84
Benzo[a]pyrene	1.08	1.02	1.01	1.08	0.984	1.10	1.08	1.02	1.05	4.02
Indeno(1,2,3-c,d)pyrene	0.600	0.579	0.535	0.576	0.569	0.614	0.639	0.750	0.608	10.8
Dibenzo[a,h]anthracene	0.560	0.492	0.471	0.528	0.502	0.543	0.607	0.708	0.551	13.8
Benzo[g,h,i]perylene	0.629	0.618	0.564	0.637	0.612	0.645	0.656	0.752	0.639	8.37

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 08/04/05

Calibration Times: 13:42

LAB FILE ID: RRF1.0 = 0804702.D RRF2.0 = 0804703.D RRF4.0 = 0804704.D RRF6.0 = 0804705.D

RRF8.0 = 0804706.D RRF12.0 = 0804707.D RRF24.0 = 0804708.D RRF48.0 = 0804709.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine	0.423	0.803	0.716	0.708	0.779	0.724	0.728		0.697	18.0
N-Nitrosodimethylamine	0.491	0.551	0.545	0.573	0.544	0.524	0.530		0.537	4.77
Phenol	0.893	1.01	0.988	1.07	1.12	1.14	1.27	1.38	1.11	14.1
Bis(2-chloroethyl)ether	1.26	0.985	0.865	0.995	0.950	0.876	0.958	0.973	0.983	12.5
2-Chlorophenol	1.13	1.22	1.23	1.33	1.22	1.28	1.26	1.13	1.23	5.64
Benzyl Alcohol	0.503	0.649	0.714	0.814	0.753	0.803	0.824	0.801	0.733	15.0
1,3-Dichlorobenzene	1.34	1.32	1.32	1.39	1.28	1.33	1.29	1.17	1.30	4.88
1,4-Dichlorobenzene	1.40	1.42	1.39	1.45	1.34	1.40	1.34	1.18	1.36	6.06
1,2-Dichlorobenzene	1.31	1.27	1.27	1.33	1.21	1.26	1.21	1.08	1.24	6.19
2-Methylphenol	0.875	0.945	0.968	1.02	0.949	0.984	0.902	0.777	0.927	8.14
3-, 4-Methylphenol	1.11	1.28	1.26	1.41	1.29	1.36	1.24	1.10	1.26	8.75
Bis(2-chloroisopropyl)ether	2.18	2.07	2.05	2.08	1.83	1.88	1.72	1.41	1.90	13.2
N-Nitrosodi-n-propylamine	0.642	0.668	0.654	0.717	0.641	0.666	0.646	0.532	0.646	8.08
Hexachloroethane	0.495	0.494	0.484	0.506	0.452	0.466	0.412	0.329	0.455	12.9
2-Fluorophenol (surr)	0.605	0.755	0.923	0.969	0.931	1.00	0.990	0.962	0.892	15.6
Phenol-d6 (surr)	1.18	1.31	1.29	1.43	1.33	1.39	1.39	1.25	1.32	6.20
Nitrobenzene	0.264	0.290	0.289	0.305	0.281	0.293	0.276	0.245	0.280	6.63
Isophorone	0.446	0.444	0.445	0.456	0.417	0.439	0.422	0.406	0.434	3.98
2-Nitrophenol	0.138	0.157	0.166	0.182	0.173	0.183	0.180	0.169	0.168	8.98
2,4-Dimethylphenol	0.197	0.221	0.236	0.243	0.240	0.254	0.237	0.223	0.231	7.52
Benzoic Acid	0.048	0.104	0.111	0.128	0.143	0.157	0.165	0.173	0.129	31.8
Bis(2-chloroethoxy)methane	0.298	0.317	0.323	0.342	0.319	0.332	0.309	0.278	0.315	6.35
2,4-Dichlorophenol	0.165	0.211	0.221	0.242	0.227	0.247	0.239	0.213	0.221	11.8
1,2,4-Trichlorobenzene	0.244	0.246	0.253	0.260	0.242	0.255	0.239	0.216	0.244	5.51
Naphthalene	0.857	0.842	0.843	0.875	0.796	0.831	0.761	0.628	0.804	9.90
4-Chloroaniline	0.095	0.103	0.103	0.109	0.100	0.108	0.098	0.08	0.100	9.02
Hexachlorobutadiene	0.124	0.126	0.126	0.128	0.119	0.126	0.115	0.100	0.121	7.85
4-Chloro-3-methylphenol	0.189	0.226	0.226	0.250	0.235	0.247	0.238	0.212	0.228	8.68
2-Methylnaphthalene	0.663	0.668	0.653	0.670	0.602	0.633	0.573	0.484	0.618	10.4
Nitrobenzene-d5 (surr)	0.104	0.118	0.124	0.135	0.128	0.135	0.133	0.127	0.125	8.45
Hexachlorocyclopentadiene	0.011	0.042	0.046	0.06	0.078	0.086	0.096	0.106	0.066	48.7
2,4,6-Trichlorophenol	0.307	0.324	0.330	0.353	0.332	0.346	0.325	0.285	0.325	6.58
2,4,5-Trichlorophenol	0.299	0.346	0.352	0.381	0.370	0.380	0.366	0.309	0.350	8.89
2-Chloronaphthalene	0.979	1.01	1.03	1.05	0.978	1.00	0.932	0.793	0.971	8.24
2-Nitroaniline	0.183	0.225	0.233	0.269	0.234	0.253	0.283	0.274	0.244	13.3

N C CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 08/04/05

Calibration Times: 13:42

LAB FILE ID: RRF1.0 = 0804702.D RRF2.0 = 0804703.D RRF4.0 = 0804704.D RRF6.0 = 0804705.D

RRF8.0 = 0804706.D RRF12.0 = 0804707.D RRF24.0 = 0804708.D RRF48.0 = 0804709.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline		0.017	0.024	0.027	0.026	0.026	0.024	0.021	0.024	14.8
1-Methylnaphthalene	1.24	1.22	1.23	1.25	1.12	1.19	1.06	0.860	1.15	11.7
Dimethylphthalate	1.14	1.14	1.12	1.16	1.08	1.12	1.08	0.987	1.10	4.99
Acenaphthylene	1.57	1.56	1.53	1.60	1.44	1.48	1.19		1.48	9.55
2,6-Dinitrotoluene	0.221	0.235	0.236	0.255	0.240	0.251	0.228	0.204	0.234	6.98
Acenaphthene	1.06	1.05	1.03	1.06	0.987	1.01	0.930	0.782	0.989	9.59
2,4-Dinitrophenol	0.131	0.140	0.127	0.157	0.155	0.168	0.175	0.168	0.153	11.8
4-Nitrophenol		0.008	0.044	0.077	0.089	0.098	0.106	0.104	0.075	48.5
Dibenzofuran	1.58	1.53	1.49	1.57	1.44	1.48	1.39	1.18	1.46	8.87
2,4-Dinitrotoluene	0.302	0.314	0.307	0.334	0.313	0.322	0.320	0.288	0.312	4.43
Fluorene	1.15	1.13	1.09	1.14	1.07	1.08	1.02	0.855	1.07	8.97
Diethylphthalate	1.17	1.13	1.12	1.16	1.07	1.10	1.04	0.892	1.08	8.28
4-Chlorophenyl phenyl ether	0.508	0.531	0.521	0.535	0.501	0.509	0.489	0.412	0.501	7.77
4-Nitroaniline		0.012	0.041	0.087	0.101	0.098	0.102		0.074	51.4
2-Fluorobiphenyl (surr)	1.15	1.16	1.16	1.19	1.11	1.14	1.03	0.864	1.10	9.71
2,4,6-Tribromophenol (surr)	0.099	0.111	0.121	0.133	0.130	0.134	0.136	0.122	0.123	10.5
4,6-Dinitro-2-methylphenol	0.061	0.091	0.104	0.124	0.126	0.135	0.137	0.133	0.114	23.4
Diphenylamine	0.300	0.262	0.266	0.262	0.213	0.216			0.253	13.2
4-bromophenyl phenyl ether	0.176	0.183	0.190	0.191	0.176	0.179	0.156	0.127	0.172	12.3
Hexachlorobenzene	0.182	0.187	0.189	0.193	0.179	0.185	0.169	0.150	0.179	7.86
Pentachlorophenol			0.062	0.087	0.094	0.109	0.119	0.106	0.096	21.3
Phenanthrene	1.10	1.08	1.05	1.10	0.998	1.03	0.950	0.820	1.02	9.29
Carbazole	0.253	0.219	0.223	0.228	0.212	0.220	0.209	0.232	0.225	6.14
Anthracene	1.01	0.998	0.989	1.03	0.939	0.969	0.902	0.777	0.951	8.51
Azobenzene	0.785	0.744	0.760	0.772	0.701	0.721	0.630	0.530	0.705	12.2
Di-n-Butylphthalate	1.30	1.28	1.28	1.31	1.19	1.20	1.10	0.915	1.20	11.3
Fluoranthene	0.991	0.973	0.950	1.02	0.935	0.990	0.927	0.810	0.949	6.72
alpha-BHC	0.126	0.133	0.134	0.132	0.120	0.121	0.107	0.088	0.120	13.0
beta-BHC	0.095	0.102	0.108	0.114	0.104	0.108	0.100	0.076	0.101	11.4
gamma-BHC	0.115	0.116	0.117	0.117	0.107	0.110	0.100	0.085	0.108	10.4
delta-BHC	0.094	0.102	0.102	0.105	0.098	0.101	0.093	0.08	0.097	8.23
Heptachlor	0.150	0.149	0.147	0.152	0.134	0.138	0.120		0.141	8.29
Aldrin	0.147	0.144	0.143	0.142	0.126	0.127	0.108		0.134	10.6
Heptachlor Epoxide	0.051	0.055	0.058	0.057	0.054	0.055	0.054	0.046	0.054	6.68
Endosulfan I	0.029	0.032	0.035	0.037	0.031	0.031	0.024		0.031	12.4

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 08/04/05

Calibration Times: 13:42

LAB FILE ID: RRF1.0 = 0804702.D RRF2.0 = 0804703.D RRF4.0 = 0804704.D RRF6.0 = 0804705.D

RRF8.0 = 0804706.D RRF12.0 = 0804707.D RRF24.0 = 0804708.D RRF48.0 = 0804709.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.210	0.207	0.209	0.215	0.199	0.205	0.185	0.153	0.198	10.2
Dieldrin	0.196	0.190	0.187	0.185	0.162	0.158			0.180	8.67
Endrin	0.028	0.029	0.033	0.033	0.03	0.03	0.025		0.03	9.47
4,4'-DDD	0.376	0.370	0.369	0.386	0.358	0.371	0.337	0.299	0.358	7.80
Endosulfan Sulfate	0.041	0.052	0.053	0.055	0.05	0.053	0.043		0.05	10.9
4,4'-DDT	0.274	0.272	0.275	0.302	0.278	0.312	0.278	0.221	0.277	9.67
Endrin Ketone	0.03	0.032	0.038	0.04	0.038	0.041	0.039	0.033	0.036	11.2
Methoxychlor	0.584	0.616	0.611	0.670	0.613	0.631	0.506		0.605	8.35
Pyrene	1.53	1.52	1.58	1.55	1.36	1.37	1.25	1.14	1.41	11.2
Butylbenzylphthalate	0.819	0.784	0.864	0.867	0.780	0.807	0.781	0.708	0.801	6.42
Benzo[a]anthracene	1.24	1.23	1.22	1.27	1.18	1.23	1.17	1.06	1.20	5.51
3,3'-Dichlorobenzidine	0.133	0.130	0.130	0.143	0.131	0.148	0.166	0.155	0.142	9.49
Chrysene	1.10	1.10	1.10	1.14	1.07	1.14	1.11	1.04	1.10	3.19
Bis(2-ethylhexyl)phthalate	1.20	1.12	1.25	1.22	1.09	1.12	1.05	0.922	1.12	9.42
4-Terphenyl-d14 (surr)	0.961	0.962	0.999	1.00	0.915	0.927	0.859	0.735	0.920	9.56
Di-n-octylphthalate	2.38	2.24	2.55	2.66	2.23	2.45	2.26	2.01	2.35	8.73
Benzo[b]fluoranthene	1.08	1.15	1.17	1.28	1.20	1.29	1.35	1.46	1.25	9.74
Benzo[k]fluoranthene	1.28	1.33	1.36	1.43	1.29	1.41	1.25	0.994	1.30	10.5
Benzo[a]pyrene	0.944	0.989	0.990	1.06	1.00	1.10	1.08	1.01	1.02	5.19
Indeno(1,2,3-c,d)pyrene	0.650	0.716	0.788	0.816	0.807	0.871	0.848	0.847	0.793	9.41
Dibenzo[a,h]anthracene	0.438	0.492	0.566	0.599	0.617	0.666	0.667	0.673	0.590	14.7
Benzo[g,h,i]perylene	0.619	0.681	0.723	0.724	0.708	0.743	0.705	0.698	0.700	5.41

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 08/12/05 Time: 8:17

Lab File ID: 0812602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.286	0.291		-1.7	
1,2-Dichlorobenzene	1.23	1.242		-1.2	
1,3-Dichlorobenzene	1.32	1.356		-2.6	
1,4-Dichlorobenzene	1.35	1.373		-1.7	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.984	1.041		-5.8	
2,4,5-Trichlorophenol	0.365	0.393		-7.7	
2,4,6-Trichlorophenol	0.360	0.384		-6.7	20.0
2,4-Dichlorophenol	0.274	0.292		-6.6	20.0
2,4-Dimethylphenol	0.262	0.259		1.1	
2,4-Dinitrophenol	0.115	0.113	0.050	1.7	
2,4-Dinitrotoluene	0.304	0.337		-10.9	
2,6-Dinitrotoluene	0.246	0.265		-7.7	
2-Chloronaphthalene	0.989	1.049		-6.1	
2-Chlorophenol	1.36	1.406		-3.5	
2-Methylnaphthalene	0.636	0.676		-6.3	
2-Methylphenol	1.11	1.134		-1.7	
2-Nitroaniline	0.337	0.404		-19.9	
2-Nitrophenol	0.185	0.180		2.7	20.0
3-, 4-Methylphenol	1.62	1.634		-0.7	
3-Nitroaniline	0.063	0.190		-201.6	
4,6-Dinitro-2-methylphenol	0.122	0.116		4.9	
4-bromophenyl phenyl ether	0.219	0.211		3.7	
4-Chloro-3-methylphenol	0.320	0.366		-14.4	20.0
4-Chloroaniline	0.142	0.158		-11.3	
4-Chlorophenyl phenyl ether	0.553	0.575		-4.0	
4-Nitroaniline	0.117	0.164		-40.2	
4-Nitrophenol	0.146	0.118	0.050	19.2	
Acenaphthene	0.884	0.920		-4.1	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.29	1.400		-8.8	
Aldrin	0.160	0.171		-6.9	
alpha-BHC	0.156	0.150		3.8	
Anthracene	0.921	0.964		-4.7	
Benzoic Acid	0.152	0.120		21.1	
Benzo[a]anthracene	1.26	1.299		-3.0	
Benzo[a]pyrene	1.05	1.156		-10.5	20.0
Benzo[b]fluoranthene	1.36	1.431		-5.6	
Benzo[k]fluoranthene	1.28	1.597		-24.4	
Benzyl Alcohol	0.953	0.961		-0.8	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 08/12/05 Time: 8:17

Lab File ID: 0812602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.124	0.129		-4.0	
Bis(2-chloroethoxy)methane	0.379	0.407		-7.4	
Bis(2-chloroethyl)ether	1.409	1.455		-3.3	
Bis(2-chloroisopropyl)ether	1.614	1.754		-8.7	
Bis(2-ethylhexyl)phthalate	0.935	1.009		-7.9	
Butylbenzylphthalate	0.700	0.783		-11.9	
Carbazole	0.404	0.723		-79.0	
Chrysene	1.044	1.078		-3.3	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.116	0.117		-0.9	
Di-n-Butylphthalate	1.211	1.189		1.8	
Di-n-octylphthalate	2.322	2.761		-18.9	20.0
Dibenzofuran	1.425	1.542		-8.2	
Dibenzo[a,h]anthracene	0.551	0.610		-10.7	
Dieldrin	0.200	0.216		-8.0	
Diethylphthalate	1.046	1.098		-5.0	
Dimethylphthalate	1.144	1.243		-8.7	
Diphenylamine	0.408	0.450		-10.3	
Endosulfan I	0.040	0.040#		0.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.051	0.050		2.0	
Endrin	0.034	0.038#		-11.8	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.042	0.036#		14.3	
Fluoranthene	1.007	1.094		-8.6	20.0
Fluorene	1.056	1.143		-8.2	
gamma-BHC	0.128	0.131		-2.3	
Heptachlor	0.150	0.151		-0.7	
Heptachlor Epoxide	0.055	0.051		7.3	
Hexachlorobenzene	0.210	0.197		6.2	
Hexachlorobutadiene	0.176	0.182		-3.4	20.0
Hexachlorocyclopentadiene	0.111	0.088	0.050	20.7	
Hexachloroethane	0.526	0.538		-2.3	
Indeno(1,2,3-c,d)pyrene	0.608	0.588		3.3	
Isophorone	0.568	0.569		-0.2	
Methoxychlor	0.685	0.634		7.4	
N-Nitrosodi-n-propylamine	0.847	0.932		-10.0	
N-Nitrosodimethylamine	0.655	0.881		-34.5	
Naphthalene	0.874	0.928		-6.2	
Naphthalene-D8	1.000	1.000		0.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD6 Calibration Date: 08/12/05 Time: 8:17

Lab File ID: 0812602.D Init. Calib. Date: 07/21/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:16

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.377	0.437		-15.9	
Pentachlorophenol	0.139	0.129		7.2	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.995	1.035		-4.0	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.779	1.925		-8.2	20.0
Pyrene	1.433	1.720		-20.0	
Pyridine	0.901	1.247		-38.4	
2,4,6-Tribromophenol	0.118	0.109		7.6	
2-Fluorobiphenyl	1.13	1.187		-5.2	
2-Fluorophenol	1.01	1.029		-1.8	
4-Terphenyl-d14	0.991	1.119		-12.9	
Nitrobenzene-d5	0.141	0.151		-7.1	
Phenol-d6	1.60	1.702		-6.4	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 08/10/05 Time: 11:04

Lab File ID: 0810702.D Init. Calib. Date: 08/04/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:42

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.244	0.263		-7.8	
1,2-Dichlorobenzene	1.24	1.338		-7.6	
1,3-Dichlorobenzene	1.30	1.402		-7.6	
1,4-Dichlorobenzene	1.36	1.466		-7.3	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	1.15	1.249		-8.9	
2,4,5-Trichlorophenol	0.350	0.378		-8.0	
2,4,6-Trichlorophenol	0.325	0.346		-6.5	20.0
2,4-Dichlorophenol	0.221	0.240		-8.6	20.0
2,4-Dimethylphenol	0.231	0.241		-4.3	
2,4-Dinitrophenol	0.153	0.137	0.050	10.5	
2,4-Dinitrotoluene	0.312	0.336		-7.7	
2,6-Dinitrotoluene	0.234	0.250		-6.8	
2-Chloronaphthalene	0.971	1.057		-8.9	
2-Chlorophenol	1.23	1.334		-8.7	
2-Methylnaphthalene	0.618	0.669		-8.3	
2-Methylphenol	0.927	1.023		-10.4	
2-Nitroaniline	0.244	0.317		-29.9	
2-Nitrophenol	0.168	0.172		-2.4	20.0
3-, 4-Methylphenol	1.26	1.413		-12.4	
3-Nitroaniline	0.024	0.027		-12.5	
4,6-Dinitro-2-methylphenol	0.114	0.110		3.5	
4-bromophenyl phenyl ether	0.172	0.189		-9.9	
4-Chloro-3-methylphenol	0.228	0.242		-6.1	20.0
4-Chloroaniline	0.100	0.107		-7.0	
4-Chlorophenyl phenyl ether	0.501	0.556		-11.0	
4-Nitroaniline	0.074	0.108		-45.9	
4-Nitrophenol	0.075	0.071	0.050	5.3	
Acenaphthene	0.989	1.072		-8.4	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.48	1.598		-7.8	
Aldrin	0.134	0.137		-2.2	
alpha-BHC	0.120	0.128		-6.7	
Anthracene	0.951	1.026		-7.9	
Azobenzene	0.705	0.760		-7.8	
Benzoic Acid	0.129	0.097		24.8	
Benzo[a]anthracene	1.20	1.243		-3.4	
Benzo[a]pyrene	1.02	1.168		-14.2	20.0
Benzo[b]fluoranthene	1.25	1.337		-7.1	
Benzo[k]fluoranthene	1.30	1.611		-24.4	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 08/10/05 Time: 11:04

Lab File ID: 0810702.D Init. Calib. Date: 08/04/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:42

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Benzyl Alcohol	0.733	0.850		-16.0	
beta-BHC	0.101	0.109		-7.9	
Bis(2-chloroethoxy)methane	0.315	0.344		-9.2	
Bis(2-chloroethyl)ether	0.983	1.022		-4.0	
Bis(2-chloroisopropyl)ether	1.901	2.052		-7.9	
Bis(2-ethylhexyl)phthalate	1.121	1.089		2.9	
Butylbenzylphthalate	0.801	0.817		-2.0	
Carbazole	0.225	0.504		-124.0	
Chrysene	1.099	1.159		-5.5	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.097	0.103		-6.2	
Di-n-Butylphthalate	1.197	1.253		-4.7	
Di-n-octylphthalate	2.346	2.716		-15.8	20.0
Dibenzofuran	1.457	1.587		-8.9	
Dibenzo[a,h]anthracene	0.590	0.530		10.2	
Dieldrin	0.180	0.168		6.7	
Diethylphthalate	1.083	1.170		-8.0	
Dimethylphthalate	1.102	1.170		-6.2	
Diphenylamine	0.253	0.258		-2.0	
Endosulfan I	0.031	0.034		-9.7	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.050	0.047		6.0	
Endrin	0.030	0.030		0.0	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.036	0.035		2.8	
Fluoranthene	0.949	1.021		-7.6	20.0
Fluorene	1.067	1.164		-9.1	
gamma-BHC	0.108	0.115		-6.5	
Heptachlor	0.141	0.137		2.8	
Heptachlor Epoxide	0.054	0.053		1.9	
Hexachlorobenzene	0.179	0.188		-5.0	
Hexachlorobutadiene	0.121	0.130		-7.4	20.0
Hexachlorocyclopentadiene	0.066	0.056	0.050	15.2	
Hexachloroethane	0.455	0.493		-8.4	
Indeno(1,2,3-c,d)pyrene	0.793	0.737		7.1	
Isophorone	0.434	0.452		-4.1	
Methoxychlor	0.605	0.534		11.7	
N-Nitrosodi-n-propylamine	0.646	0.686		-6.2	
N-Nitrosodimethylamine	0.537	0.565		-5.2	
Naphthalene	0.804	0.868		-8.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 08/10/05 Time: 11:04

Lab File ID: 0810702.D Init. Calib. Date: 08/04/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 13:42

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Naphthalene-D8	1.000	1.000		0.0	
Nitrobenzene	0.280	0.302		-7.9	
Pentachlorophenol	0.096	0.085		11.5	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	1.016	1.087		-7.0	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.108	1.269		-14.5	20.0
Pyrene	1.413	1.619		-14.6	
Pyridine	0.697	0.761		-9.2	
2,4,6-Tribromophenol	0.123	0.127		-3.3	
2-Fluorobiphenyl	1.10	1.200		-9.1	
2-Fluorophenol	0.892	0.968		-8.5	
4-Terphenyl-d14	0.920	1.057		-14.9	
Nitrobenzene-d5	0.125	0.134		-7.2	
Phenol-d6	1.32	1.479		-11.9	

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS6 Date Analyzed: 08/10/05

Lab File ID (Standard): 0810702.D Time Analyzed: 11:04

Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	142407	5.97	592795	7.86	286348	10.61
	UPPER LIMIT	284814	6.47	1185590	8.36	572696	11.11
	LOWER LIMIT	71204	5.47	296398	7.36	143174	10.11
	EPA SAMPLE						
01	G537-162-42F MS	145216	5.97	569471	7.86	273874	10.61
02	G537-162-42G MSD	132350	5.97	532978	7.86	247743	10.61
03	LCS3409	130937	5.96	533201	7.86	251310	10.61
04	PB3409	147263	5.97	591202	7.86	285398	10.61
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS6 Date Analyzed: 08/10/05
Lab File ID (Standard): 0810702.D Time Analyzed: 11:04
Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	462035		12.96		287289		17.18		164864		19.28	
	UPPER LIMIT	924070		13.46		574578		17.68		329728		19.78	
	LOWER LIMIT	231018		12.46		143645		16.68		82432		18.78	
	EPA SAMPLE												
01	G537-162-42F MS	429579		12.97		266968		17.18		156944		19.28	
02	G537-162-42G MSD	395575		12.97		232898		17.18		136304		19.29	
03	LCS3409	402832		12.97		253230		17.18		156737		19.28	
04	PB3409	443672		12.96		232657		17.18		134973		19.29	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS6 Date Analyzed: 08/12/05

Lab File ID (Standard): 0812602.D Time Analyzed: 08:17

Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	157628	6.8	600284	8.71	356918	11.49
	UPPER LIMIT	315256	7.3	1200568	9.21	713836	11.99
	LOWER LIMIT	78814	6.3	300142	8.21	178459	10.99
	EPA SAMPLE						
01	G537-162-42E	153594	6.8	536178	8.71	347347	11.49
02	GDMW-1	151030	6.8	527460	8.71	333007	11.5
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS6 Date Analyzed: 08/12/05
Lab File ID (Standard): 0812602.D Time Analyzed: 08:17
Instrument ID: MSD6 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	546126	13.87	336999	18.11	179212	20.33
	UPPER LIMIT	1092252	14.37	673998	18.61	358424	20.83
	LOWER LIMIT	273063	13.37	168500	17.61	89606	19.83
	EPA SAMPLE						
01	G537-162-42E	517958	13.87	261277	18.11	129499	20.33
02	GDMW-1	470044	13.87	232284	18.11	115527	20.34
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER Lab Sample ID: LCS3409

Sample wt/vol: 5 (mL) Lab File ID: 0810712.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA Date Analyzed: 08/10/05 16:45

Concentrated Extract Volume: 5 (mL) Dilution Factor: 1

Injection Volume: 1 (µL) Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	107	107*	61.6-101
208-96-8	Acenaphthylene	100	112	112	66.1-116
120-12-7	Anthracene	100	105	105*	48.7-94.6
56-55-3	Benzo[a]anthracene	100	96.9	96.9	67.4-101
50-32-8	Benzo[a]pyrene	100	112	112*	41.6-102
205-99-2	Benzo[b]fluoranthene	100	105	105	37.4-108
191-24-2	Benzo[g,h,i]perylene	100	111	111	42.0-113
207-08-9	Benzo[k]fluoranthene	100	123	123	29.6-126
65-85-0	Benzoic Acid	100	63.7	63.7	29.5-107
100-51-6	Benzyl Alcohol	100	95.4	95.4	61.6-98.5
111-91-1	Bis(2-chloroethoxy)methane	100	99.5	99.5	56.4-10.0
111-44-4	Bis(2-chloroethyl)ether	100	83.8	83.8	44.6-93.2
108-60-1	Bis(2-chloroisopropyl)ether	100	94.3	94.3	53.5-102
117-81-7	Bis(2-ethylhexyl)phthalate	100	104	104	47.2-121
101-55-3	4-bromophenyl phenyl ether	100	105	105	42.1-110
85-68-7	Butylbenzylphthalate	100	109	109	52.8-120
106-47-8	4-Chloroaniline	100	95.9	95.9*	10.0-248
59-50-7	4-Chloro-3-methylphenol	100	95.0	95.0	64.3-97.6
91-58-7	2-Chloronaphthalene	100	147	147*	59.0-100
95-57-8	2-Chlorophenol	100	90.0	90.0	56.9-93.4
7005-72-3	4-Chlorophenyl phenyl ether	100	106	106*	64.4-106
218-01-9	Chrysene	100	111	111*	65.8-106
84-74-2	Di-n-Butylphthalate	100	108	108	61.8-110
117-84-0	Di-n-octylphthalate	100	110	110	21.0-118
53-70-3	Dibenzo[a,h]anthracene	100	106	106	40.6-112
132-64-9	Dibenzofuran	100	98.1	98.1	69.2-103
95-50-1	1,2-Dichlorobenzene	100	75.5	75.5	24.2-91.0
541-73-1	1,3-Dichlorobenzene	100	69.4	69.4	18.0-84.5
106-46-7	1,4-Dichlorobenzene	100	72.9	72.9	20.6-82.8
91-94-1	3,3'-Dichlorobenzidine	100	119	119*	10.0-360
120-83-2	2,4-Dichlorophenol	100	95.6	95.6	57.9-96.6
84-66-2	Diethylphthalate	100	110	110*	65.8-102
105-67-9	2,4-Dimethylphenol	100	78.1	78.1	18.2-110
131-11-3	Dimethylphthalate	100	105	105*	60.2-99.5
534-52-1	4,6-Dinitro-2-methylphenol	100	89.3	89.3	40.4-103
51-28-5	2,4-Dinitrophenol	100	87.2	87.2	40.5-106
121-14-2	2,4-Dinitrotoluene	100	113	113*	63.7-101
606-20-2	2,6-Dinitrotoluene	100	110	110*	61.6-99.2
206-44-0	Fluoranthene	100	106	106*	64.0-103
86-73-7	Fluorene	100	110	110*	67.2-102
118-74-1	Hexachlorobenzene	100	105	105	45.0-112

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER Lab Sample ID: LCS3409

Sample wt/vol: 5 (mL) Lab File ID: 0810712.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA Date Analyzed: 08/10/05 16:45

Concentrated Extract Volume: 5 (mL) Dilution Factor: 1

Injection Volume: 1 (µL) Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	88.3	88.3	26.0-94.3
77-47-4	Hexachlorocyclopentadiene	100	42.7	42.7*	10.0-126
67-72-1	Hexachloroethane	100	67.4	67.4*	10.0-89.9
193-39-5	Indeno(1,2,3-c,d)pyrene	100	104	104	42.8-105
78-59-1	Isophorone	100	120	120*	62.3-112
90-12-0	1-Methylnaphthalene	100	100	100	58.1-105
91-57-6	2-Methylnaphthalene	100	87.8	87.8	57.9-103
95-48-7	2-Methylphenol	100	94.2	94.2	58.9-96.1
108-39-4	4-Methylphenol	200	174	87.0	48.4-99.9
621-64-7	N-Nitrosodi-n-propylamine	100	100	100	62.6-108
86-30-6	Diphenylamine	100	215	215*	10.0-214
91-20-3	Naphthalene	100	96.6	96.6	46.1-10.0
88-74-4	2-Nitroaniline	100	118	118	68.9-121
99-09-2	3-Nitroaniline	100	98.5	98.5*	10.0-649
100-01-6	4-Nitroaniline	100	138	138*	50.1-137
98-95-3	Nitrobenzene	100	104	104*	52.4-97.2
88-75-5	2-Nitrophenol	100	89.5	89.5	49.9-93.7
100-02-7	4-Nitrophenol	100	89.9	89.9	53.7-125
87-86-5	Pentachlorophenol	100	71.5	71.5	37.0-102
85-01-8	Phenanthrene	100	104	104	59.5-107
108-95-2	Phenol	100	93.1	93.1	57.4-99.5
129-00-0	Pyrene	100	120	120	44.1-124
120-82-1	1,2,4-Trichlorobenzene	100	90.3	90.3	37.6-97.9
95-95-4	2,4,5-Trichlorophenol	100	96.8	96.8*	59.4-96.8
88-06-2	2,4,6-Trichlorophenol	100	96.0	96.0*	57.6-94.8

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GDMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	08/03/05
Date Received	08/04/05
Date Extracted	08/08/05
Date Analyzed	08/08/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: g161-2103-1e

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

II

VPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (FID) #	S2 (PID) #	QC LIMITS	TOT OUT
01	GDMW-1	G161-2103-1E	025F0101.D	100	100	70-130	0
02							
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S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

VPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4080805A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4080805A Lab File ID: 006F0101.D

Date Analyzed: 2005-08-08 Instrument ID: GC4

Time Analyzed: 10:36 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	GDMW-1	G161-2103-1E	025F0101.D	2005-08-08 19:53
02				
03				
04				
05				
06				
07				
08				
09				
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11				
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14				
15				
16				
17				
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33				
34				
35				

COMMENTS: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	08/08/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: vblk4080805a

Reviewed By: _____

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	8/8/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC4080805	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	MSD ug/L
C_5-C_8 Aliphatics	130	470	440
C_9-C_{12} Aliphatics	460	570	580
C_9-C_{10} Aromatics	440	530	560

		Total	%Rec	Total	%Rec	RPD
Gasoline	1030	1570	108%	1580	110%	1.8

Reviewed By:

Comments:
BQL = Below Quantitation Limit

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	8/8/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4080805	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Spike ug/L	LCS ug/L	Percent Recovery	Recovery Limits Low	Recovery Limits High
C_5-C_8 Aliphatics		340			
C_9-C_{12} Aliphatics		140			
C_9-C_{10} Aromatics		65			
Gasoline	500	545	109	70	130

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 08/08/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	14.1
C_9-C_{12} Aliphatics	500	50	5.0
C_9-C_{10} Aromatics	500	50	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GDMW-1
Sample Matrix	Water
Date Collected	08/03/05
Date Received	08/04/05
Date Extracted	08/12/05
Date Analyzed	08/16/05
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	69
Aromatic Surrogate % Recovery	54
Fractionation Surrogate 1 % Recovery	98

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2103-1N

Reviewed By: RJV

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Date Collected	
Date Received	
Date Extracted	08/12/05
Date Analyzed	08/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	93
Aromatic Surrogate % Recovery	97

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation.

Lab info: pb3426

Reviewed By: _____

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	8/18/2005
Client Project ID.		Analyzed By:	CLP
Lab Sample ID:	LCS3426	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Spiked ug/L	LCS ug/L	%Rec	%Recovery Limits Lower	Upper
C_9-C_{18} Aliphatics	200	120	60	40	140
C_{19}-C_{36} Aliphatics	300	350	117	40	140
C_{11}-C_{22} Aromatics	500	510	102	40	140

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	8/18/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC3426	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	%Rec	MSD ug/L	%Rec	RPD
C_9-C_{18} Aliphatics	BQL	300	150%	300	150%	0.0
C_{19}-C_{36} Aliphatics	BQL	240	80%	240	80%	0.0
C_{11}-C_{22} Aromatics	BQL	350	70%	380	76%	8.2

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Paradigm Analytical Laboratories, INC.

II

EPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	S1 (COD) #	S2 (OTP) #	S3 (frac) #	QC LIMITS	TOT OUT
01	GDMW-1	G161-2103-1N	69	54	98	40 - 140	0
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
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35							

S1 (COD) = Chloro-octadecane
S2 (OTP) = ortho-terphenyl
S3 (frac) = 2-Bromonaphthalene

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

) PB3426

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3426 Extraction: (Type) 3520

Matrix: (soil/water) WATER Date Extracted: 2005-08-12

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	GDMW-1	G161-2103-1N
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
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33		

COMMENTS: _____

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/16/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.1
C_{19}-C_{36} Aliphatics	160	3.3
C_{11}-C_{22} Aromatics	340	-12.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Organics
by EPA 504

Client Sample ID:	GDMW-1	Analyzed By:	CLP
Client Project ID:	Gaddy Property	Date Collected:	8/3/05 10:45
Lab Sample ID:	G161-2103-1O	Date Received:	8/4/05 10:30
Lab Project ID:	G161-2103	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0197	1	8/15/05

Reviewed By: RNW

8011_LIMS_1 32 XLS

Results for Organics
by EPA 504

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3441
Lab Project ID:

Analyzed By: CLP
Date Collected:
Date Received:
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0 0192	1	8/15/05

Reviewed By: BNP

8011_LIMS_1 32

PARADIGM ANALYTICAL LABORATORIES, INC.

QC Results for EDB
by EPA 8011/504

Client Sample ID: Batch QC
Lab Sample ID: G311-139-1J
Batch ID: 3441

Analyzed By: CLP
Matrix: WATER

MS/MSD

Analyte	Sample ug/L	Spiked ug/L	MS ug/L	REC %	Spiked ug/L	MSD ug/L	REC %	RPD %
EDB	BQL	0 0564	0 0459	81 4	0 0564	0 0486	86 2	5 73

LCS

Analyte		Spiked ug/L	Result ug/L	REC %	Limits Lower	Limits Upper
EDB		0 0566572	0 0461	81 4	70	130

Comments:

= Outside Control Limits

Results for Metals

Client Sample ID:	GDMW-1	Analyzed By:	RML
Client Project ID:	Gaddy Property	Date Collected:	8/3/2005 10:45
Lab Sample ID:	G161-2103-1	Date Received:	8/4/05
Lab Project ID:	G161-2103	Matrix:	WATER
Batch ID:	3380		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	8/10/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3380	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3380		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	8/10/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

MS/MSD Results for METALS

Lab ID: G311-139-1
MS Lab ID: G311-139-1
MSD Lab ID: G311-139-1
ICP Batch: 3380
HG Batch:
Other:

Analyzed By: RML
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	BQL	0.4	0.358	89.5	0.4	0.372	93.0	75	125	3.84	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: RMP

METALS Results for LCS/LCD

ICP Batch: 3380
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	0.40	0.357	89.3	0.354	88.5	80	120	0.84	20

Reviewed By: _____

PARADIGM ANALYTICAL LABORATORIES, INC

2A

INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 081005b MS Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	200			500			500			90-110
Antimony	60			5			5			90-110
Arsenic	10			5			5			90-110
Barium	200			5			5			90-110
Beryllium	5			5			5			90-110
Cadmium	5			5			5			90-110
Calcium	5000			500			500			90-110
Chromium	10			5			5			90-110
Cobalt	50			5			5			90-110
Copper	25			5			5			90-110
Iron	100			500			500			90-110
Lead	5	4.97	99.5	5	4.98	99.7	5	5.09	101.7	90-110
Magnesium	5000			500			500			90-110
Manganese	15			5			5			90-110
Nickel	40			5			5			90-110
Potassium	5000			500			500			90-110
Selenium	5			5			5			90-110
Silver	10			5			5			90-110
Sodium	5000			500			500			90-110
Thallium	10			5			5			90-110
Vanadium	50			5			5			90-110
Zinc	20			50			50			90-110

Comments:

FORM IIA - METALS

PARADIGM ANALYTICAL LABORATORIES, INC

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 081005b MS Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV ( )			LIMITS REC.
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	
Aluminum	200			500			500			90-110
Antimony	60			5			5			90-110
Arsenic	10			5			5			90-110
Barium	200			5			5			90-110
Beryllium	5			5			5			90-110
Cadmium	5			5			5			90-110
Calcium	5000			500			500			90-110
Chromium	10			5			5			90-110
Cobalt	50			5			5			90-110
Copper	25			5			5			90-110
Iron	100			500			500			90-110
Lead	5	4.97	99.5	5	5.07	101.5	5			90-110
Magnesium	5000			500			500			90-110
Manganese	15			5			5			90-110
Nickel	40			5			5			90-110
Potassium	5000			500			500			90-110
Selenium	5			5			5			90-110
Silver	10			5			5			90-110
Sodium	5000			500			500			90-110
Thallium	10			5			5			90-110
Vanadium	50			5			5			90-110
Zinc	20			50			50			90-110

Comments:

FORM IIA - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 081005b MS

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C		C		
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	0.1	U	0.1	U	0.1	U				
Magnesium										
Manganese										
Mercury										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Paradigm Analytical ICS Source: Environmental Express

Batch ID: 081005b ICP ID Number: ICPMS 1

Concentration Units: ug/L

Analyte	TRUE Sol. A	TRUE Sol. B	Initial Found Sol. A	Initial Found Sol. B	%R	Final Found Sol. A	Final Found Sol. B	%R
Aluminum	5000	5000	5084.42	5023.45	100.5	4939.45	3398.6	68.0
Antimony	0	3	0	0	0.0	0	0	0.0
Arsenic	0	3	0	0	0.0	0	0	0.0
Barium	0	3	0	0	0.0	0	0	0.0
Beryllium	0	3	0	0	0.0	0	0	0.0
Cadmium	0	3	0	0	0.0	0	0	0.0
Calcium	5000	5000	5142.74	5163.89	103.3	5118.53	3639.55	72.8
Chromium	0	3	0	0	0.0	0	0	0.0
Cobalt	0	3	0	0	0.0	0	0	0.0
Copper	0	3	0	0	0.0	0	0	0.0
Iron	5000	5000	4377.47	4444.62	88.9	4504.15	4382.33	87.6
Lead	0	3	0.01	3.023	100.8	0.01	3.526	117.5
Magnesium	5000	5000	5053.63	4963.99	99.3	4847.51	3319.47	66.4
Manganese	0	3	0	0	0.0	0	0	0.0
Nickel	0	3	0	0	0.0	0	0	0.0
Potassium	5000	5000	5101.51	5050.18	n/a	5037.7	4361.85	n/a
Selenium	0	3	0	0	0.0	0	0	0.0
Silver	0	3	0	0	0.0	0	0	0.0
Sodium	5000	5000	5113.17	5075.53	n/a	4970.12	3413.96	n/a
Thallium	0	3	0	0	0.0	0	0	0.0
Vanadium	0	3	0	0	0.0	0	0	0.0
Zinc	0	30	0	0	0.0	0	0	0.0

FORM IV - METALS

601/602 Sample Raw Data

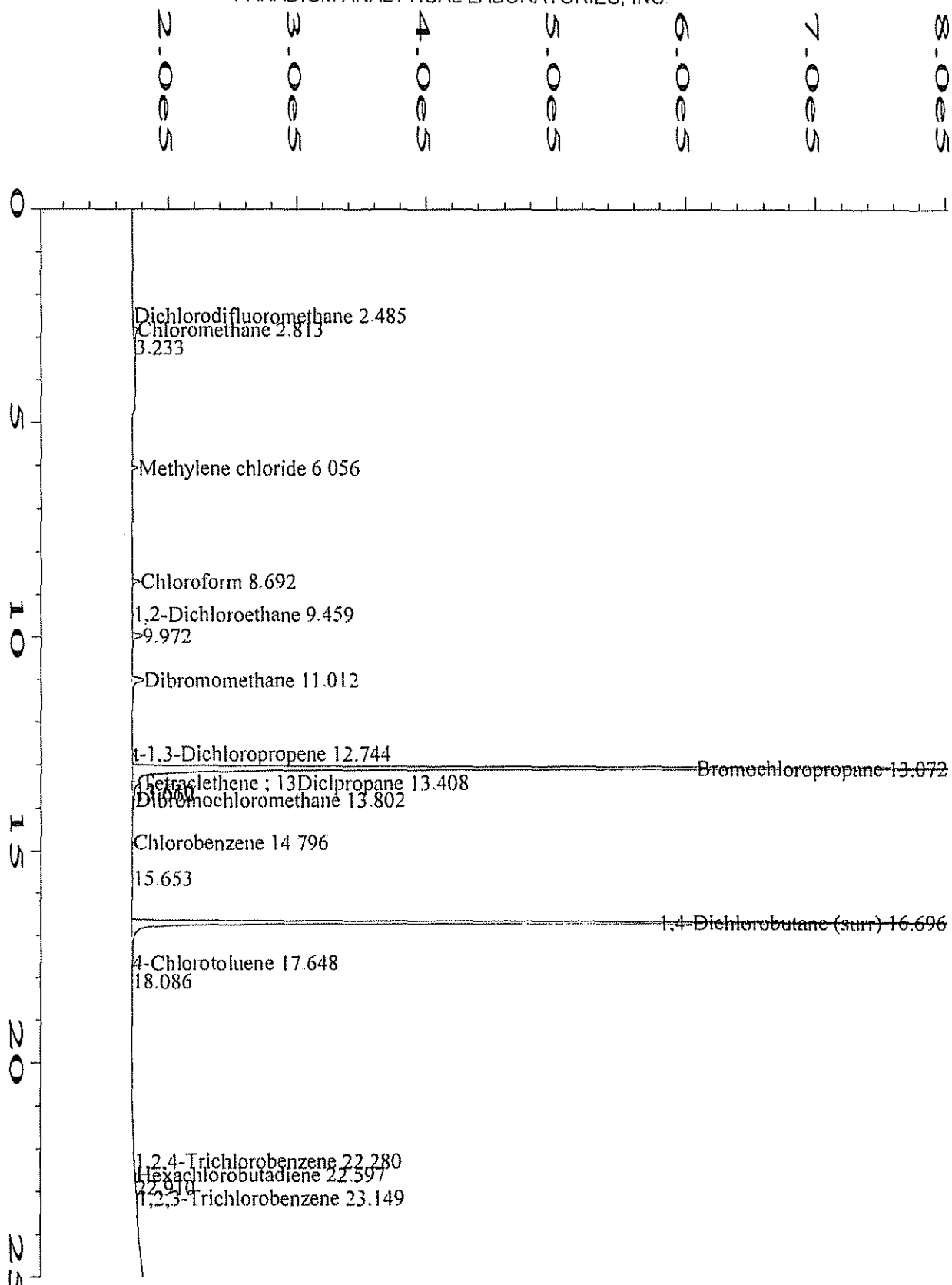
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\011F0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-1b
un Time Bar Code:
cquired on : 10 Aug 05 02:10 PM
eport Created on: 10 Aug 05 02:35 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\011F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.485	2578	BB	0.040	1	-0.0893	Dichlorodifluoromethane
2.813	45055	PV	0.184	1	-0.415	Chloromethane
2.955	* not found *			1		Vinyl chloride
3.514	* not found *			1		Bromomethane
3.726	* not found *			1		Chloroethane
4.208	* not found *			1		Trichlorofluoromethane
5.152	* not found *			1		1,1-Dichloroethene
6.056	19336	BB	0.060	1	-0.254	Methylene chloride
6.502	* not found *			1		t-1,2-Dichloroethene
7.215	* not found *			1		1,1-Dichloroethane
8.151	* not found *			1		c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.692	25789	BB	0.064	1	-0.160	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.459	2248	BV	0.059	1	-0.249	1,2-Dichloroethane
10.528	* not found *			1		Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.012	76984	BB	0.135	1	0.884	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.744	3325	BV	0.069	1	-0.0550	t-1,3-Dichloropropene
13.072	3363953	VV	0.062	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.408	45049	VV	0.088	1	-0.716	Tetraclethene ; 13Diclpropane
13.802	11044	VV	0.075	1	0.173	Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.796	4467	BV	0.075	1	-0.0876	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.696	2492424	PV	0.054	1	103.186	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.339	* not found *			1		2-Chlorotoluene
17.648	1421	VV	0.073	1	-0.159	4-Chlorotoluene
18.620	* not found *			1		1,3-Dichlorobenzene
18.783	* not found *			1		1,4-Dichlorobenzene
19.424	* not found *			1		1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.280	3462	PV	0.075	1	0.0402	1,2,4-Trichlorobenzene
22.597	7240	VV	0.092	1	-0.0965	Hexachlorobutadiene
23.149	4253	PV	0.079	1	0.00458	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\011F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 11
Sample Name	: g161-2103-1b	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 10 Aug 05 02:10 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 02:35 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

PARADIGM ANALYTICAL LABORATORIES INC.

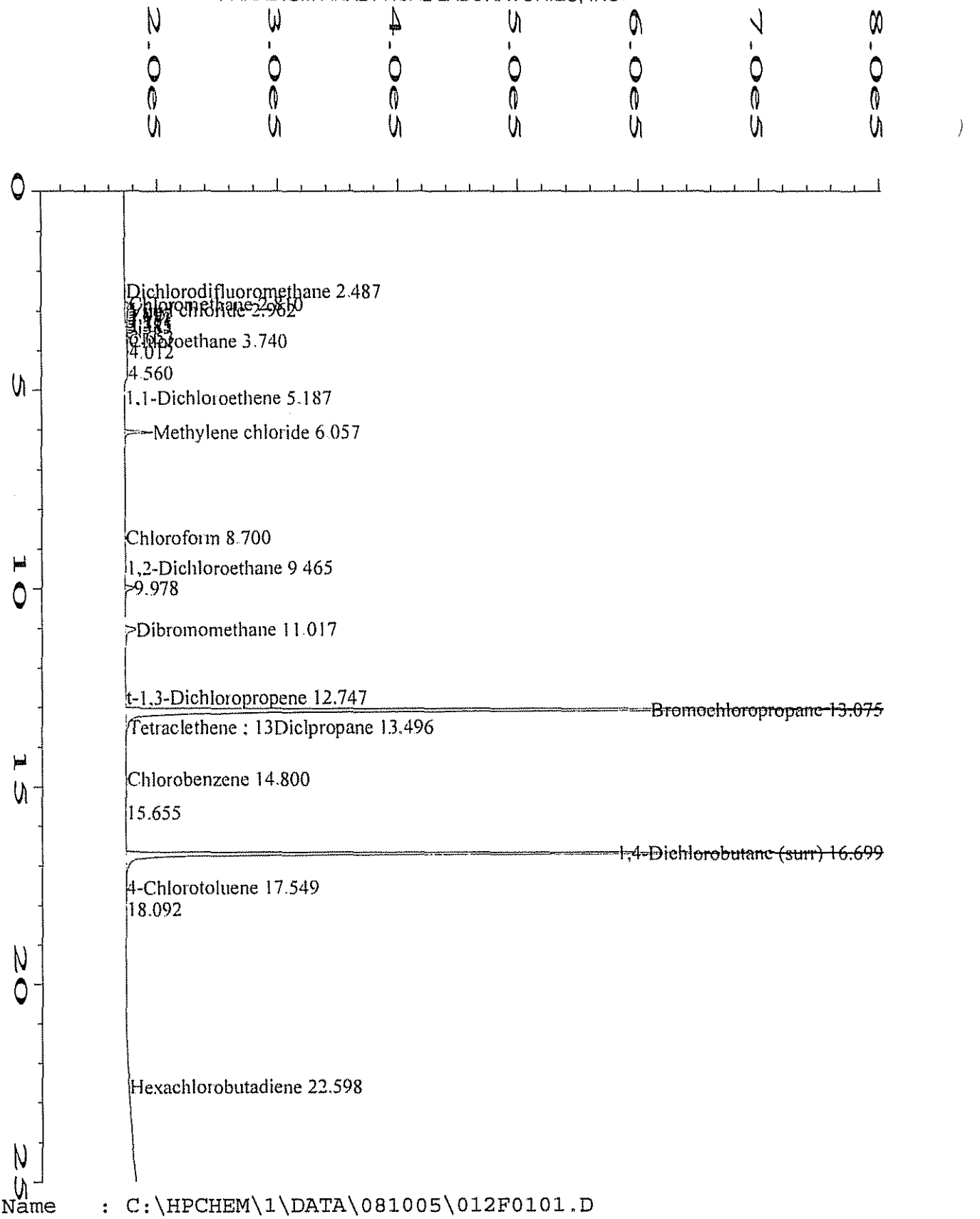
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\012F0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-2b
un Time Bar Code:
cquired on : 10 Aug 05 02:41 PM
eport Created on: 10 Aug 05 03:06 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\012F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.487	3780	BV	0.050	1	-0.0811	Dichlorodifluoromethane
2.810	25099	PV	0.114	1	-0.501	Chloromethane
2.962	21811	VV	0.084	1	-0.391	Vinyl chloride
3.514	* not found *			1		Bromomethane
3.740	5681	VV	0.050	1	-0.423	Chloroethane
4.208	* not found *			1		Trichlorofluoromethane
5.187	1384	VV	0.051	1	-0.184	1,1-Dichloroethene
6.057	85218	PV	0.056	1	-0.0427	Methylene chloride
6.502	* not found *			1		t-1,2-Dichloroethene
7.215	* not found *			1		1,1-Dichloroethane
8.151	* not found *			1		c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.700	1910	BB	0.060	1	-0.224	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.465	4112	BB	0.085	1	-0.240	1,2-Dichloroethane
10.528	* not found *			1		Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.017	69907	BV	0.131	1	-0.840	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.747	3332	BV	0.070	1	-0.0544	t-1,3-Dichloropropene
13.075	3274767	PV	0.063	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.496	18182	VV	0.125	1	-0.851	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.800	3915	BV	0.070	1	-0.0905	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.699	2395395	BV	0.054	1	101.870	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.339	* not found *			1		2-Chlorotoluene
17.549	1305	VB	0.083	1	-0.160	4-Chlorotoluene
18.620	* not found *			1		1,3-Dichlorobenzene
18.783	* not found *			1		1,4-Dichlorobenzene
19.424	* not found *			1		1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.260	* not found *			1		1,2,4-Trichlorobenzene
22.598	2564	VV	0.060	1	-0.110	Hexachlorobutadiene
23.123	* not found *			1		1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\012F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 12
Sample Name	: g161-2103-2b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 02:41 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 03:06 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

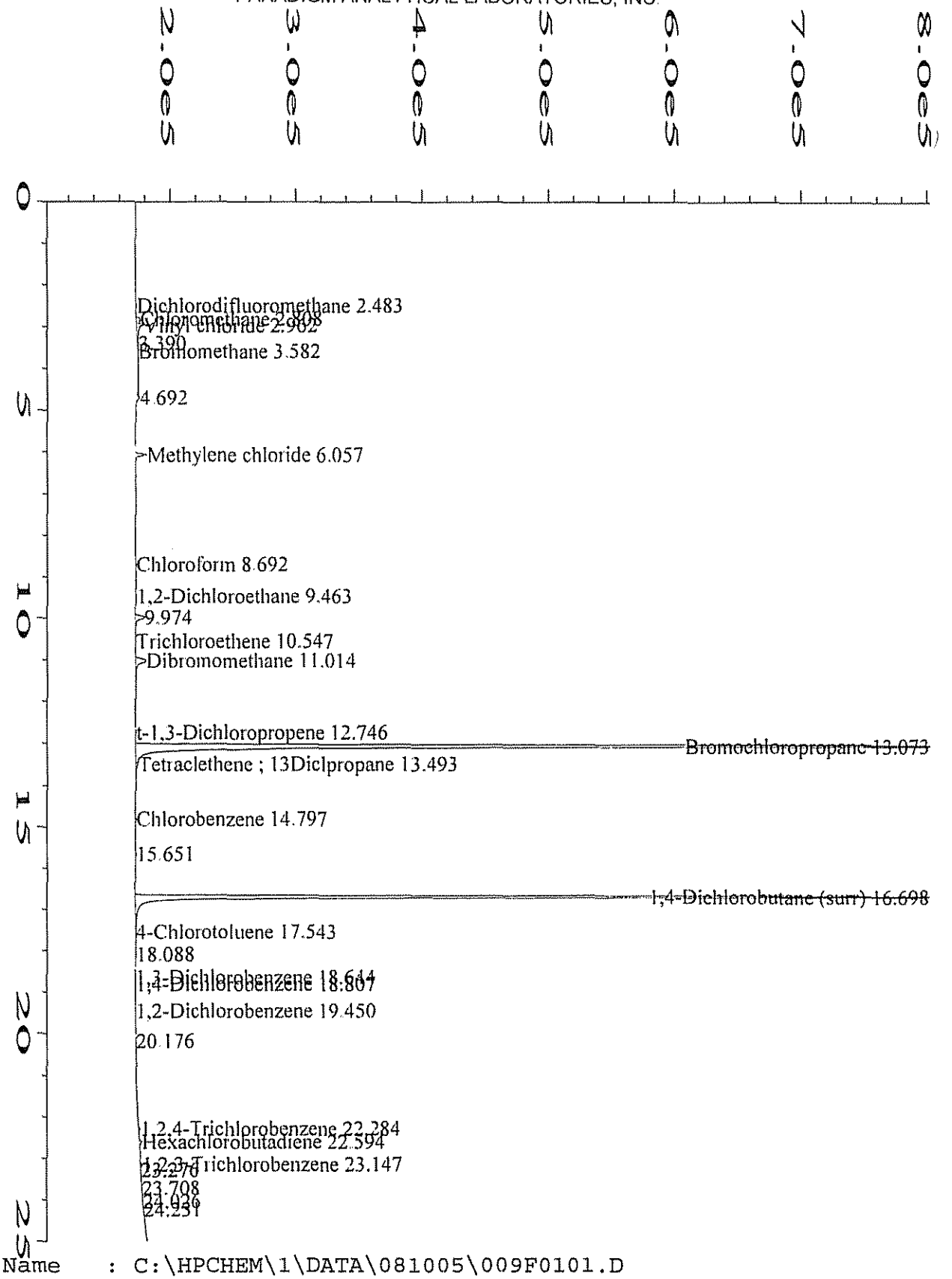
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\009F0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-3b
un Time Bar Code:
cquired on : 10 Aug 05 01:08 PM
eport Created on: 10 Aug 05 01:33 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\009F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.483	2832	BV	0.043	1	-0.0871	Dichlorodifluoromethane
2.808	24468	PV	0.110	1	-0.504	Chloromethane
2.962	47243	VV	0.118	1	-0.224	Vinyl chloride
3.582	3235	VB	0.108	1	0.286	Bromomethane
3.726	* not found *			1		Chloroethane
4.208	* not found *			1		Trichlorofluoromethane
5.152	* not found *			1		1,1-Dichloroethene
6.057	34332	BB	0.056	1	-0.204	Methylene chloride
6.502	* not found *			1		t-1,2-Dichloroethene
7.215	* not found *			1		1,1-Dichloroethane
8.151	* not found *			1		c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.692	3140	PB	0.078	1	-0.221	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.463	2780	BV	0.057	1	-0.247	1,2-Dichloroethane
10.547	2097	VB	0.091	1	-0.0560	Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.014	75304	BV	0.138	1	0.891	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.746	3089	BV	0.066	1	-0.0558	t-1,3-Dichloropropene
13.073	3259428	PV	0.063	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.493	13674	VV	0.100	1	-0.874	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.797	4408	BV	0.069	1	-0.0871	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.698	2360315	BV	0.054	1	100.850	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.339	* not found *			1		2-Chlorotoluene
17.543	1711	VV	0.092	1	-0.157	4-Chlorotoluene
18.644	1847	VV	0.107	1	-0.0361	1,3-Dichlorobenzene
18.807	2208	VV	0.098	1	-0.113	1,4-Dichlorobenzene
19.450	1168	VV	0.071	1	-0.0747	1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.284	7259	PV	0.080	1	0.0546	1,2,4-Trichlorobenzene
22.594	12015	VV	0.084	1	-0.0817	Hexachlorobutadiene
23.147	9388	VV	0.091	1	0.0264	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\009F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 9
Sample Name	: g161-2103-3b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 01:08 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	10 Aug 05 01:33 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

PARADIGM ANALYTICAL LABORATORIES, INC.

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\011R0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-1b
un Time Bar Code:
cquired on : 10 Aug 05 02:10 PM
eport Created on: 10 Aug 05 02:35 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

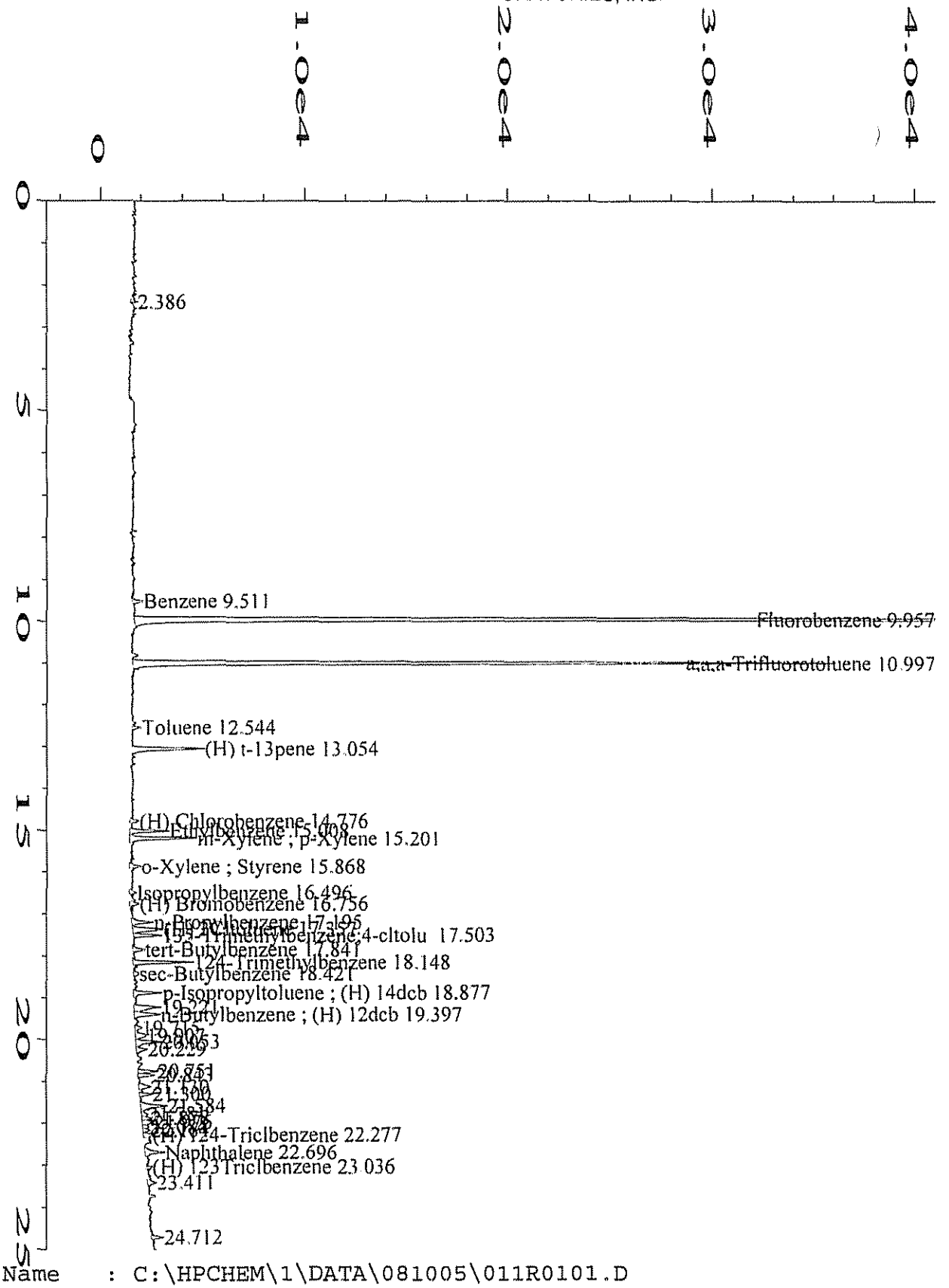
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\011R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.941	* not found *			1		(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.485	* not found *			1		MTBE ; (H) t-12DCE
7.329	* not found *			1		DIPE
8.141	* not found *			1		(H) c-12dce
9.179	* not found *			1		(H) 11-Diclpropene
9.511	2117	VV	0.048	1	~~0.139~~	Benzene
9.957	260062	PV	0.057	1-I	40.000	Fluorobenzene
10.516	* not found *			1		(H) Trichloroethene
10.997	139478	PV	0.063	1	100.311	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.544	1411	VV	0.037	1	~~0.147~~	Toluene
13.054	14611	BV	0.061	1	~~2.959~~	(H) t-13pene
13.404	* not found *			1		(H) Tetrachloroethene
14.776	1961	VV	0.052	1	~~0.184~~	(H) Chlorobenzene
15.008	7536	VV	0.056	1	~~0.520~~	Ethylbenzene
15.201	12746	VV	0.061	1	~~0.730~~	m-Xylene ; p-Xylene
15.868	2510	PV	0.056	1	~~0.365~~	o-Xylene ; Styrene
16.496	1536	VV	0.055	1	0.256	Isopropylbenzene
16.756	2203	VV	0.056	1	0.232	(H) Bromobenzene
17.195	4372	VV	0.055	1	0.351	n-Propylbenzene
17.357	7536	VV	0.063	1	0.469	(H) 2Cltoluene
17.503	4797	VV	0.048	1	0.652	135-Trimethylbenzene;4-cltolu
17.841	2480	PV	0.050	1	0.390	tert-Butylbenzene
18.148	10463	VV	0.052	1	0.725	124-Trimethylbenzene
18.421	1539	VV	0.080	1	0.371	sec-Butylbenzene
18.615	* not found *			1		(H) 13dcb
18.877	5486	VV	0.052	1	0.827	p-Isopropyltoluene ; (H) 14dcb
19.397	6011	VV	0.058	1	1.033	n-Butylbenzene ; (H) 12dcb
22.277	2528	VV	0.067	1	0.617	(H) 124-Triclbenzene
22.563	* not found *			1		(H) Hexaclbutadiene
22.696	5360	PV	0.076	1	0.806	Naphthalene
23.036	1130	PV	0.060	1	0.583	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\011R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 11
Sample Name	: g161-2103-1b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 02:10 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 02:36 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\012R0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-2b
un Time Bar Code:
cquired on : 10 Aug 05 02:41 PM
eport Created on: 10 Aug 05 03:06 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

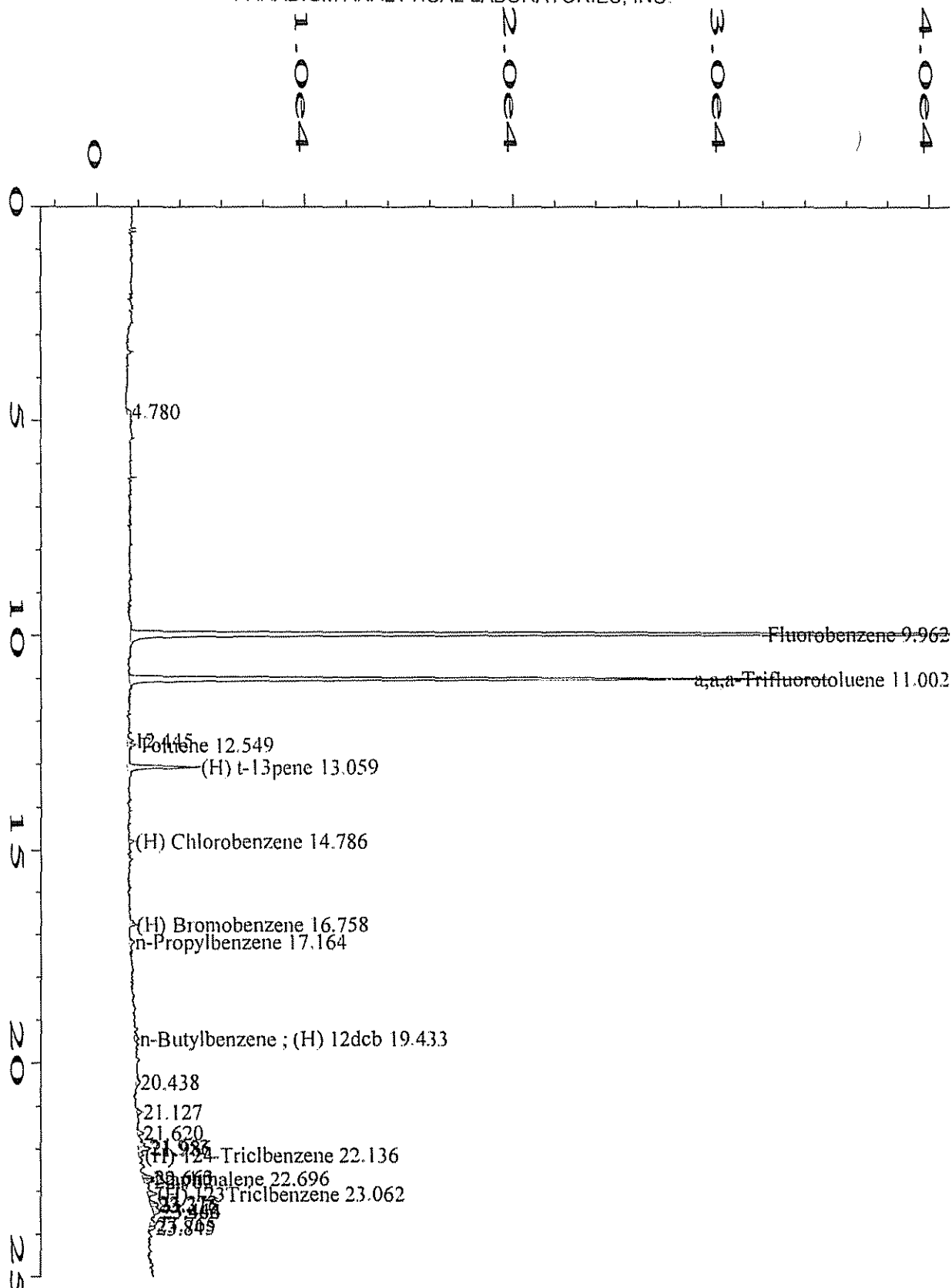
Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\012R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.941	* not found *			1		(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.485	* not found *			1		MTBE ; (H) t-12DCE
7.329	* not found *			1		DIPE
8.141	* not found *			1		(H) c-12dce
9.179	* not found *			1		(H) 11-Diclpropene
9.506	* not found *			1		Benzene
9.962	255997	PV	0.058	1-I	40.000	Fluorobenzene
10.516	* not found *			1		(H) Trichloroethene
11.002	136681	VV	0.062	1	99.861	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.549	1466	VV	0.040	1	~~0.150~~	Toluene
13.059	14546	VV	0.062	1	~~2.992~~	(H) t-13pene
13.404	* not found *			1		(H) Tetrachloroethene
14.786	1193	PV	0.054	1	~~0.152~~	(H) Chlorobenzene
15.002	* not found *			1		Ethylbenzene
15.200	* not found *			1		m-Xylene ; p-Xylene
15.878	* not found *			1		o-Xylene ; Styrene
16.486	* not found *			1		Isopropylbenzene
16.758	1087	VB	0.044	1	0.186	(H) Bromobenzene
17.164	1485	VV	0.070	1	0.215	n-Propylbenzene
17.328	* not found *			1		(H) 2Cltoluene
17.509	* not found *			1		135-Trimethylbenzene;4-cltolu
18.054	* not found *			1		tert-Butylbenzene
18.142	* not found *			1		124-Trimethylbenzene
18.436	* not found *			1		sec-Butylbenzene
18.615	* not found *			1		(H) 13dcb
18.773	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
19.433	1356	VV	0.069	1	0.780	n-Butylbenzene ; (H) 12dcb
22.136	1195	VV	0.048	1	0.522	(H) 124-Triclbenzene
22.563	* not found *			1		(H) Hexaclbutadiene
22.696	1039	VV	0.025	1	0.476	Naphthalene
23.062	2219	VV	0.059	1	0.673	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\012R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 12
Sample Name	: g161-2103-2b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 02:41 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	10 Aug 05 03:06 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\009R0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2103-3b
un Time Bar Code:
cquired on : 10 Aug 05 01:08 PM
eport Created on: 10 Aug 05 01:33 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

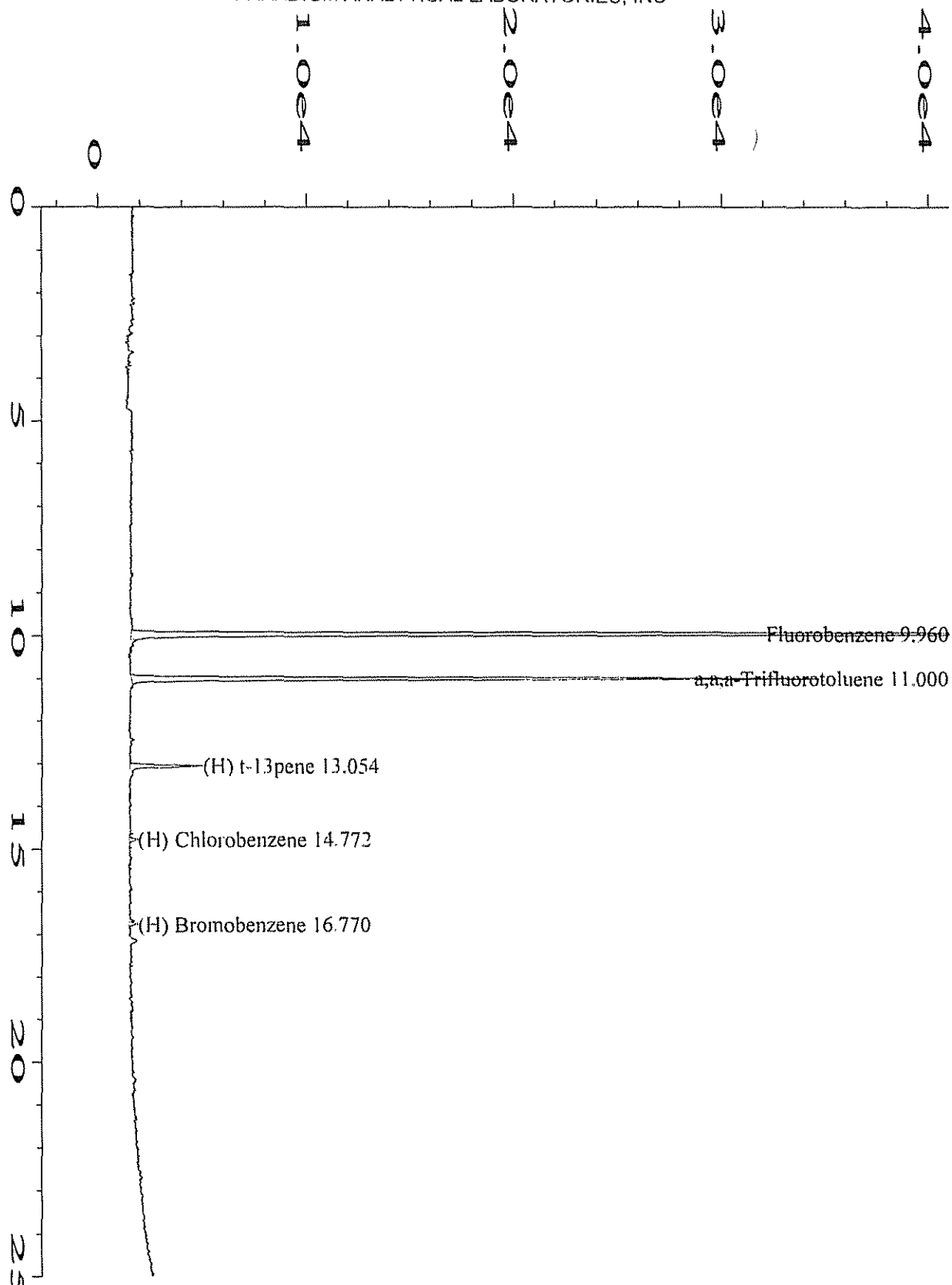
Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\009R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.941	* not found *			1		(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.485	* not found *			1		MTBE ; (H) t-12DCE
7.329	* not found *			1		DIPE
8.141	* not found *			1		(H) c-12dce
9.179	* not found *			1		(H) 11-Diclpropene
9.506	* not found *			1		Benzene
9.960	254010	PV	0.057	1-I	40.000	Fluorobenzene
10.516	* not found *			1		(H) Trichloroethene
11.000	133532	PV	0.063	1	98.323	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.541	* not found *			1		Toluene
13.054	13692	VV	0.055	1	~~2.838~~	(H) t-13pene
13.404	* not found *			1		(H) Tetrachloroethene
14.772	1612	VV	0.044	1	~~0.171~~	(H) Chlorobenzene
15.002	* not found *			1		Ethylbenzene
15.200	* not found *			1		m-Xylene ; p-Xylene
15.878	* not found *			1		o-Xylene ; Styrene
16.486	* not found *			1		Isopropylbenzene
16.770	1690	VV	0.051	1	~~0.212~~	(H) Bromobenzene
17.190	* not found *			1		n-Propylbenzene
17.328	* not found *			1		(H) 2Cltoluene
17.509	* not found *			1		135-Trimethylbenzene;4-cltolu
18.054	* not found *			1		tert-Butylbenzene
18.142	* not found *			1		124-Trimethylbenzene
18.436	* not found *			1		sec-Butylbenzene
18.615	* not found *			1		(H) 13dcb
18.773	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
19.416	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.252	* not found *			1		(H) 124-Triclbenzene
22.563	* not found *			1		(H) Hexaclbutadiene
22.684	* not found *			1		Naphthalene
23.113	* not found *			1		(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\009R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 9
Sample Name	: g161-2103-3b	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 10 Aug 05 01:08 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 01:33 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 Calibration Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.

INITIAL CALIBRATION SUMMARY

Method: 8010/8020, 8021, 601/602, 6230D
Batch: 080205

Date: 03-Aug-05
Instrument: GC1

ELCD Compound	Slope m	Intercept b	Correlation Coefficient[a] r	#
Dichlorodifluoromethane	0.527	-0.00237	0.999	
Chloromethane	0.373	-0.0145	0.998	
Vinyl chloride	0.531	-0.0142	0.999	
Bromomethane	0.980	0.00655	0.999	
Chloroethane	0.515	-0.0112	0.999	
Trichlorofluoromethane	0.372	-0.0104	0.999	
1,1-Dichloroethene	0.290	-0.00437	0.999	
Methylene chloride	0.260	-0.00780	0.999	
t-1,2-Dichloroethene	0.279	-0.00381	0.999	
1,1-Dichloroethane	0.281	-0.00403	0.999	
c-12Diclethene ;	0.166	-0.00792	0.998	
Bromochloromethane	0.467	-0.00153	0.999	
Chloroform	0.226	-0.00565	0.999	
1,1,1-Trichloroethane	0.247	-0.00555	0.999	
Carbon Tetracl	0.147	-0.0148	0.996	
1,2-Dichloroethane	0.382	-0.00629	0.999	
Trichloroethene	0.233	-0.00151	0.999	
1,2-Dichloropropane	0.324	-0.00701	0.999	
Dibromomethane	0.728	0.00556	0.999	
Bromodichloromethane	0.363	-0.00413	0.999	
c-1,3-Dichloropropene	0.409	-0.00778	0.999	
t-1,3-Dichloropropene	0.511	-0.00176	0.999	
Bromochloropropane	Internal Standard			
1,1,2-Trichloroethane	0.404	-0.0192	0.999	
Tetraclethene ;	0.215	-0.0116	0.999	
Dibromochloromethane	0.558	0.00310	0.998	
1,2-Dibromoethane (EDB)	0.827	0.00265	0.999	
Chlorobenzene	0.554	-0.00266	0.999	
1,1,1,2-Tetrachloroethane	0.237	-0.00538	0.999	
Bromoform	0.992	0.0120	0.999	
1,4-Dichlorobutane (surr)	Surrogate			
Brbenzene;123triclprop;1122tet	0.360	-0.00627	0.999	
2-Chlorotoluene	0.513	-0.00400	0.999	
4-Chlorotoluene	0.500	-0.00402	0.999	
1,3-Dichlorobenzene	0.326	-0.000947	0.999	
1,4-Dichlorobenzene	0.300	-0.00289	0.999	
1,2-Dichlorobenzene	0.348	-0.00192	0.999	
1,2-Dibromo-3-chloropropane	2.54	0.00783	0.999	
1,2,4-Trichlorobenzene	0.300	0.000765	0.999	
Hexachlorobutadiene	0.242	-0.00285	0.999	
1,2,3-Trichlorobenzene	0.337	-0.000215	0.999	

PID Compound	Slope m	Intercept b	Correlation Coefficient[a] r	#
(H) Vinyl chloride				
(H) 1,1-Dichloroethene				
MTBE ; (H) t-12DCE	0.266	-0.000341	0.999	
DIPE	0.673	-0.000454	0.999	
(H) c-12dce				
(H) 11-Dicipropene				
Benzene	0.292	0.00220	0.999	
Fluorobenzene	Internal Standard			
(H) Trichloroethene				
a,a,a-Trifluorotoluene	Surrogate			
(H) c-13pene				
Toluene	0.290	0.00341	0.999	
(H) t-13pene				
(H) Tetrachloroethene				
(H) Chlorobenzene				
Ethylbenzene	0.297	0.00579	0.999	
m-Xylene ; p-Xylene	0.122	0.00429	0.999	
o-Xylene ; Styrene	0.142	0.00445	0.999	
Isopropylbenzene	0.365	0.00575	0.999	
(H) Bromobenzene				
n-Propylbenzene	0.309	0.00489	0.999	
(H) 2Cltoluene				
135-Trimethylbenzene;4-cltolu	0.114	0.00751	0.999	
tert-Butylbenzene	0.392	0.00753	0.999	
124-Trimethylbenzene	0.254	0.00966	0.999	
sec-Butylbenzene	0.358	0.00868	0.999	
(H) 13dcb				
p-Isopropyltoluene ; (H) 14dcb	0.262	0.00626	0.999	
n-Butylbenzene ; (H) 12dcb	0.178	0.0108	0.999	
(H) 124-Triclbenzene				
(H) Hexaclbutadiene				
Naphthalene	0.500	0.0124	0.999	
(H) 123Triclbenzene				

a = Minimum allowable correlation coefficient is 0.990.

N.C. CERTIFICATION #481

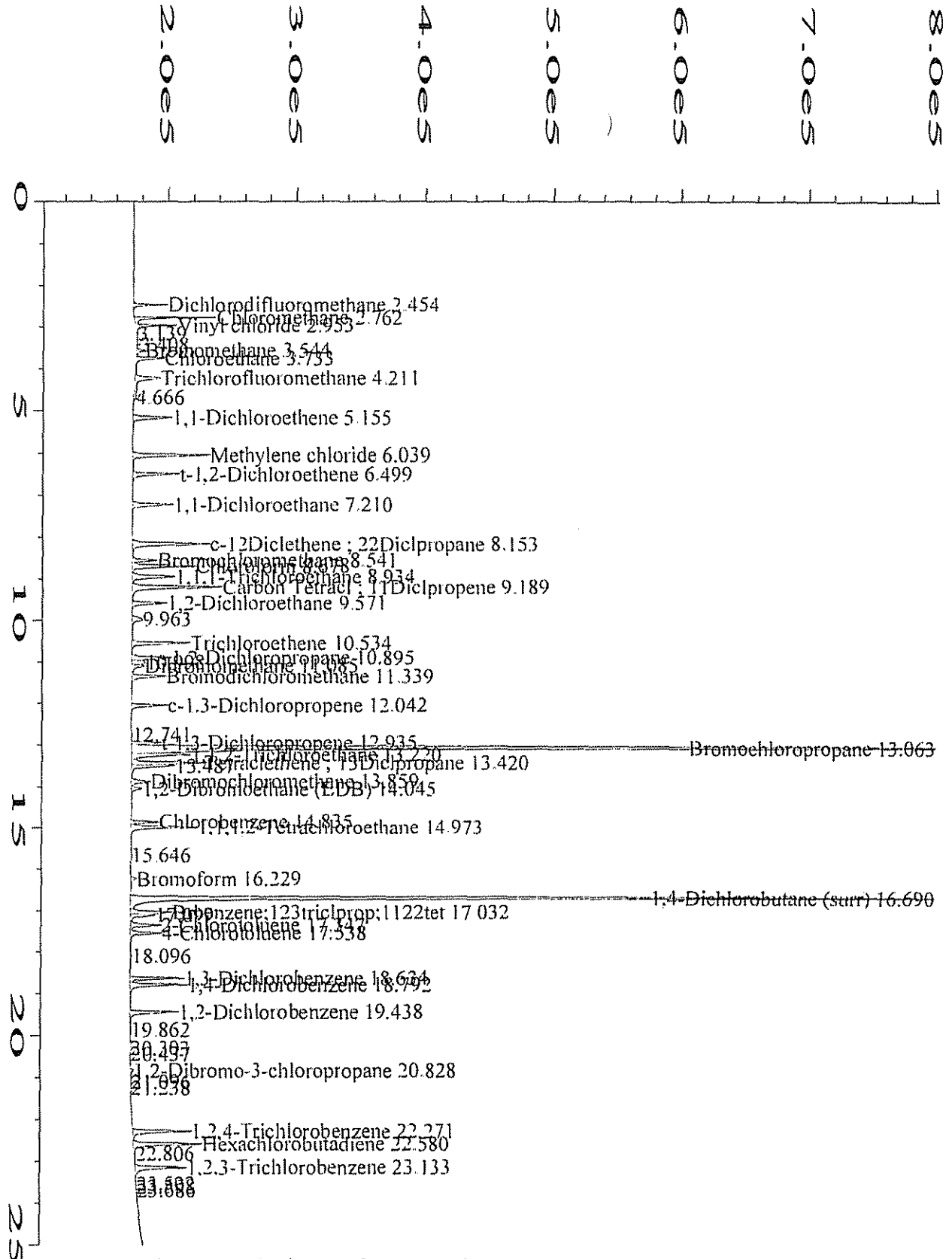
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\021F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : v0.5
ın Time Bar Code:
:quired on : 02 Aug 05 05:28 PM
:port Created on: 03 Aug 05 10:17 AM
ıst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

.g. 1 in C:\HPCHEM\1\DATA\080205\021F0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.454	55520	BV	0.033	1	0.292	Dichlorodifluoromethane
2.762	129216	PV	0.030	1	0.0415	Chloromethane
2.953	88399	VV	0.041	1	0.105	Vinyl chloride
3.544	25520	VV	0.056	1	0.587	Bromomethane
3.733	87486	VV	0.057	1	0.154	Chloroethane
4.211	124417	VV	0.090	1	0.203	Trichlorofluoromethane
5.155	124060	PV	0.062	1	0.301	1,1-Dichloroethene
6.039	218187	BV	0.055	1	0.458	Methylene chloride
6.499	137700	VV	0.057	1	0.356	t-1,2-Dichloroethene
7.210	134081	VB	0.065	1	0.338	1,1-Dichloroethane
8.153	258131	BV	0.065	1	0.489	c-12Diclethene ; 22Diclpropane
8.541	66556	VV	0.052	1	0.357	Bromochloromethane
8.678	197311	VV	0.062	1	0.377	Chloroform
8.934	154842	VV	0.073	1	0.282	1,1,1-Trichloroethane
9.189	309379	VV	0.068	1	-0.0812	Carbon Tetracl ; 11Diclpropene
9.571	104862	VV	0.058	1	0.285	1,2-Dichloroethane
10.534	165537	VV	0.056	1	0.462	Trichloroethene
10.895	120500	VV	0.061	1	0.239	1,2-Dichloropropane
11.085	45943	VV	0.066	1	0.672	Dibromomethane
11.339	109653	VV	0.062	1	0.369	Bromodichloromethane
12.042	100505	PV	0.055	1	0.232	c-1,3-Dichloropropene
12.935	70672	VV	0.048	1	0.416	t-1,3-Dichloropropene
13.063	2945499	VV	0.062	1-I	40.000	Bromochloropropane
13.220	193355	VV	0.062	1	0.287	1,1,2-Trichloroethane
13.420	212335	VV	0.057	1	0.293	Tetraclethene ; 13Diclpropane
13.859	60728	VV	0.062	1	0.561	Dibromochloromethane
14.045	41393	VB	0.072	1	0.568	1,2-Dibromoethane (EDB)
14.835	70786	BV	0.051	1	0.416	Chlorobenzene
14.973	207664	VV	0.061	1	0.452	1,1,1,2-Tetrachloroethane
16.229	21304	PV	0.069	1	0.756	Bromoform
16.690	2180854	PV	0.053	1	103.114	1,4-Dichlorobutane (surr)
17.032	139807	VV	0.067	1	1.274	Brbenzene;123triclprop;1122tet
17.347	89746	VV	0.059	1	0.458	2-Chlorotoluene
17.538	98222	VV	0.059	1	0.499	4-Chlorotoluene
18.634	138760	BV	0.051	1	0.572	1,3-Dichlorobenzene
18.792	162501	VV	0.055	1	0.542	1,4-Dichlorobenzene
19.438	131562	VV	0.053	1	0.542	1,2-Dichlorobenzene
20.828	11429	VV	0.071	1	0.703	1,2-Dibromo-3-chloropropane
22.271	172960	PV	0.057	1	0.732	1,2,4-Trichlorobenzene
22.580	218054	VV	0.062	1	0.598	Hexachlorobutadiene
23.133	160297	VV	0.060	1	0.722	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\021F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 21
ample Name	: v0.5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 05:28 PM	Instrument Method	: 8021_HAL.MTH
eport Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

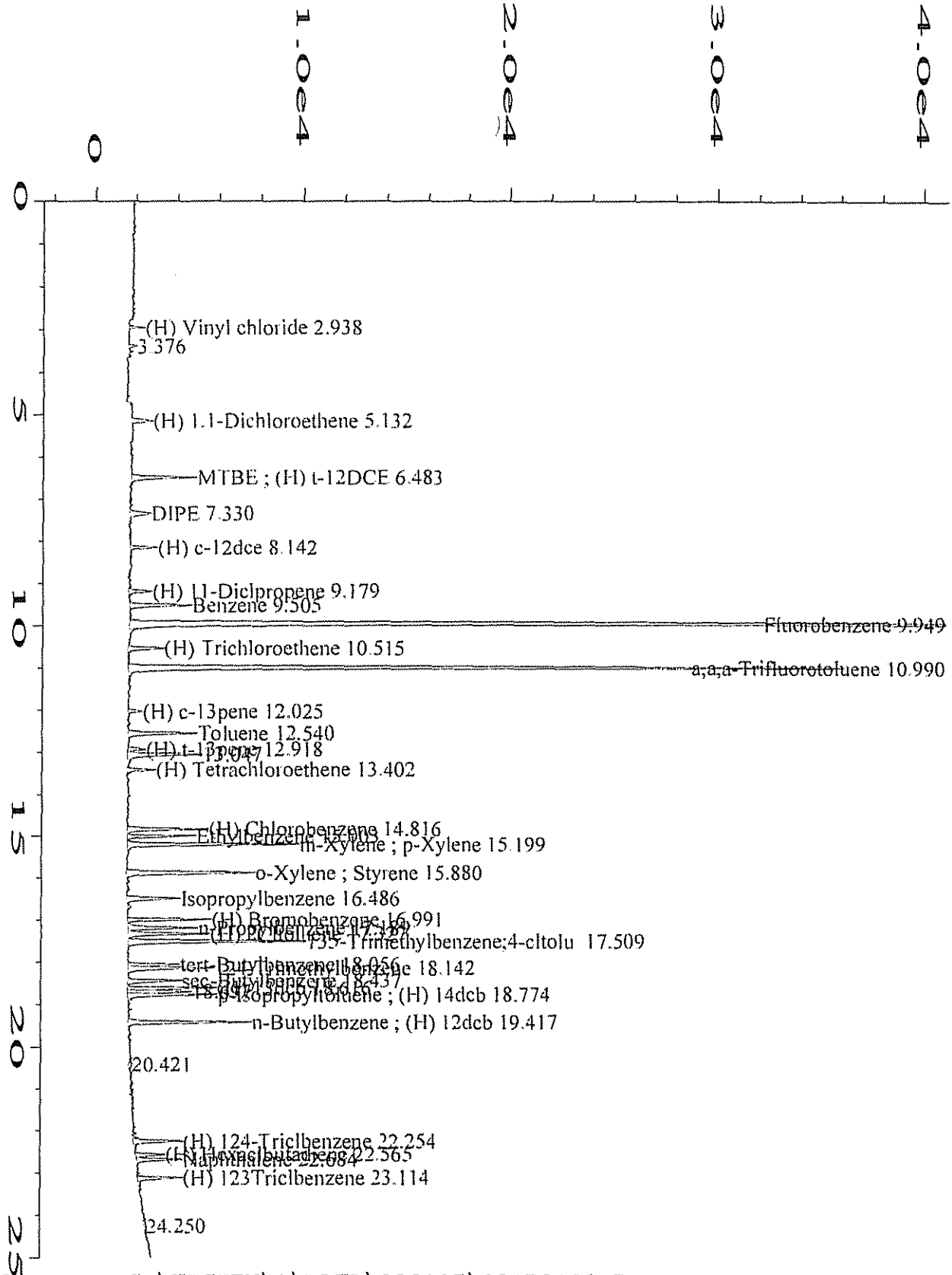
ıta File Name : C:\HPCHEM\1\DATA\080205\021R0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : v0.5
ın Time Bar Code:
:quired on : 02 Aug 05 05:28 PM
ɜport Created on: 03 Aug 05 10:17 AM
ıst Recalib on : 03 AUG 05 09:47 AM
ıltiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

.g. 2 in C:\HPCHEM\1\DATA\080205\021R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.938	1819	VV	0.033	1	0.195	(H) Vinyl chloride
5.132	4265	VV	0.054	1	0.400	(H) 1,1-Dichloroethene
6.483	12533	BV	0.058	1	0.959	MTBE ; (H) t-12DCE
7.330	5367	VV	0.065	1	0.486	DIPE
8.142	5079	BV	0.054	1	0.502	(H) c-12dce
9.179	4777	PV	0.052	1	0.528	(H) 11-Diclpropene
9.505	11080	VV	0.051	1	0.542	Benzene
9.949	259557	VV	0.059	1-I	40.000	Fluorobenzene
10.515	6972	PV	0.051	1	0.646	(H) Trichloroethene
10.990	141327	PV	0.064	1	101.839	a,a,a-Trifluorotoluene
12.025	2496	BV	0.044	1	0.503	(H) c-13pene
12.540	11778	PV	0.056	1	0.609	Toluene
12.918	3110	PV	0.049	1	0.628	(H) t-13pene
13.402	5269	VV	0.053	1	0.662	(H) Tetrachloroethene
14.816	13161	VV	0.053	1	0.671	(H) Chlorobenzene
15.003	11882	VV	0.055	1	0.719	Ethylbenzene
15.199	29578	VV	0.053	1	1.365	m-Xylene ; p-Xylene
15.880	26695	PV	0.062	1	1.426	o-Xylene ; Styrene
16.486	9903	PV	0.057	1	0.726	Isopropylbenzene
16.991	13410	BV	0.051	1	0.708	(H) Bromobenzene
17.189	12445	VV	0.057	1	0.735	n-Propylbenzene
17.327	13352	VV	0.053	1	0.718	(H) 2Cltoluene
17.509	31960	VV	0.059	1	1.603	135-Trimethylbenzene;4-cltolu
18.056	8950	VV	0.055	1	0.780	tert-Butylbenzene
18.142	14781	VV	0.054	1	0.894	124-Trimethylbenzene
18.437	9663	VV	0.057	1	0.819	sec-Butylbenzene
18.616	14013	VV	0.051	1	0.798	(H) 13dcb
18.774	14494	VV	0.051	1	1.554	p-Isopropyltoluene ; (H) 14dcb
19.417	21133	VV	0.053	1	1.863	n-Butylbenzene ; (H) 12dcb
22.254	8505	VV	0.053	1	1.048	(H) 124-Triclbenzene
22.565	5384	PV	0.056	1	1.156	(H) Hexaclbutadiene
22.684	7576	VV	0.051	1	0.978	Naphthalene
23.114	7743	VV	0.053	1	1.110	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\021R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 21
ample Name	: v0.5	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 05:28 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

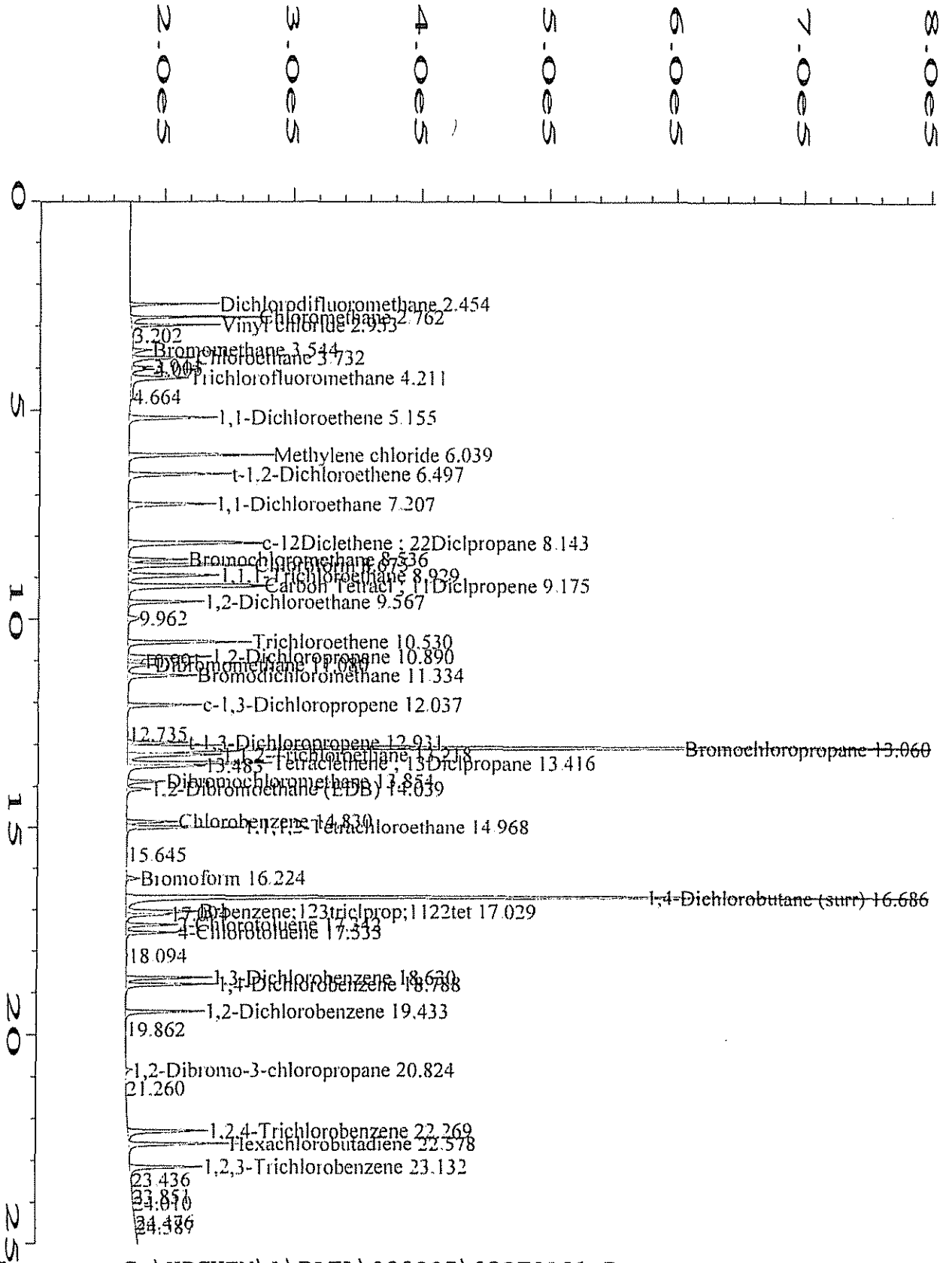
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\022F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : v1
ın Time Bar Code:
:quired on : 02 Aug 05 05:59 PM
ɜport Created on: 03 Aug 05 10:17 AM
ıst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 1 in C:\HPCHEM\1\DATA\080205\022F0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.454	141480	BV	0.032	1	0.922	Dichlorodifluoromethane
2.762	237109	PV	0.038	1	0.607	Chloromethane
2.953	180807	VV	0.039	1	0.789	Vinyl chloride
3.544	55167	VV	0.055	1	0.992	Bromomethane
3.732	174079	VV	0.054	1	0.778	Chloroethane
4.211	246484	VV	0.081	1	0.839	Trichlorofluoromethane
5.155	277854	PV	0.063	1	0.923	1,1-Dichloroethene
6.039	399604	BV	0.055	1	1.119	Methylene chloride
6.497	291409	VV	0.056	1	0.954	t-1,2-Dichloroethene
7.207	289812	VV	0.067	1	0.949	1,1-Dichloroethane
8.143	504820	PV	0.072	1	1.636	c-12Diclethene ; 22Diclpropane
8.536	161030	VV	0.053	1	0.971	Bromochloromethane
8.675	396634	VV	0.062	1	1.007	Chloroform
8.929	336093	VV	0.074	1	0.907	1,1,1-Trichloroethane
9.175	566578	VV	0.071	1	0.983	Carbon Tetracl ; 11Diclpropene
9.567	225980	VV	0.058	1	0.931	1,2-Dichloroethane
10.530	348731	VV	0.056	1	1.057	Trichloroethene
10.890	253013	VV	0.061	1	0.838	1,2-Dichloropropane
11.080	89392	VV	0.063	1	1.114	Dibromomethane
11.334	220274	VV	0.062	1	0.930	Bromodichloromethane
12.037	210714	VV	0.055	1	0.862	c-1,3-Dichloropropene
12.931	143088	PV	0.047	1	0.933	t-1,3-Dichloropropene
13.060	2905063	VV	0.062	1-I	40.000	Bromochloropropane
13.218	305594	VV	0.062	1	0.927	1,1,2-Trichloroethane
13.416	411400	VV	0.056	1	1.488	Tetraclethene ; 13Diclpropane
13.854	117469	VV	0.061	1	1.004	Dibromochloromethane
14.039	77057	VV	0.064	1	0.981	1,2-Dibromoethane (EDB)
14.830	131562	BV	0.051	1	0.887	Chlorobenzene
14.968	367248	VV	0.062	1	0.983	1,1,1,2-Tetrachloroethane
16.224	43770	PV	0.060	1	1.067	Bromoform
16.686	2194297	PV	0.053	1	105.193	1,4-Dichlorobutane (surr)
17.029	243185	VV	0.066	1	2.839	Brbenzene;123triclprop;1122tet
17.342	146777	VV	0.057	1	0.870	2-Chlorotoluene
17.533	152418	VV	0.056	1	0.882	4-Chlorotoluene
18.630	222221	PV	0.051	1	0.955	1,3-Dichlorobenzene
18.788	253765	VV	0.054	1	0.929	1,4-Dichlorobenzene
19.433	213357	VV	0.053	1	0.943	1,2-Dichlorobenzene
20.824	19993	PV	0.062	1	1.008	1,2-Dibromo-3-chloropropane
22.269	237278	PV	0.057	1	1.008	1,2,4-Trichlorobenzene
22.578	325530	VV	0.063	1	0.966	Hexachlorobutadiene
23.132	221068	VV	0.059	1	1.014	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\022F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 22
ample Name	: v1	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 05:59 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\022R0101.D
›erator : MJC
ıstrument : GC1
ımple Name : v1
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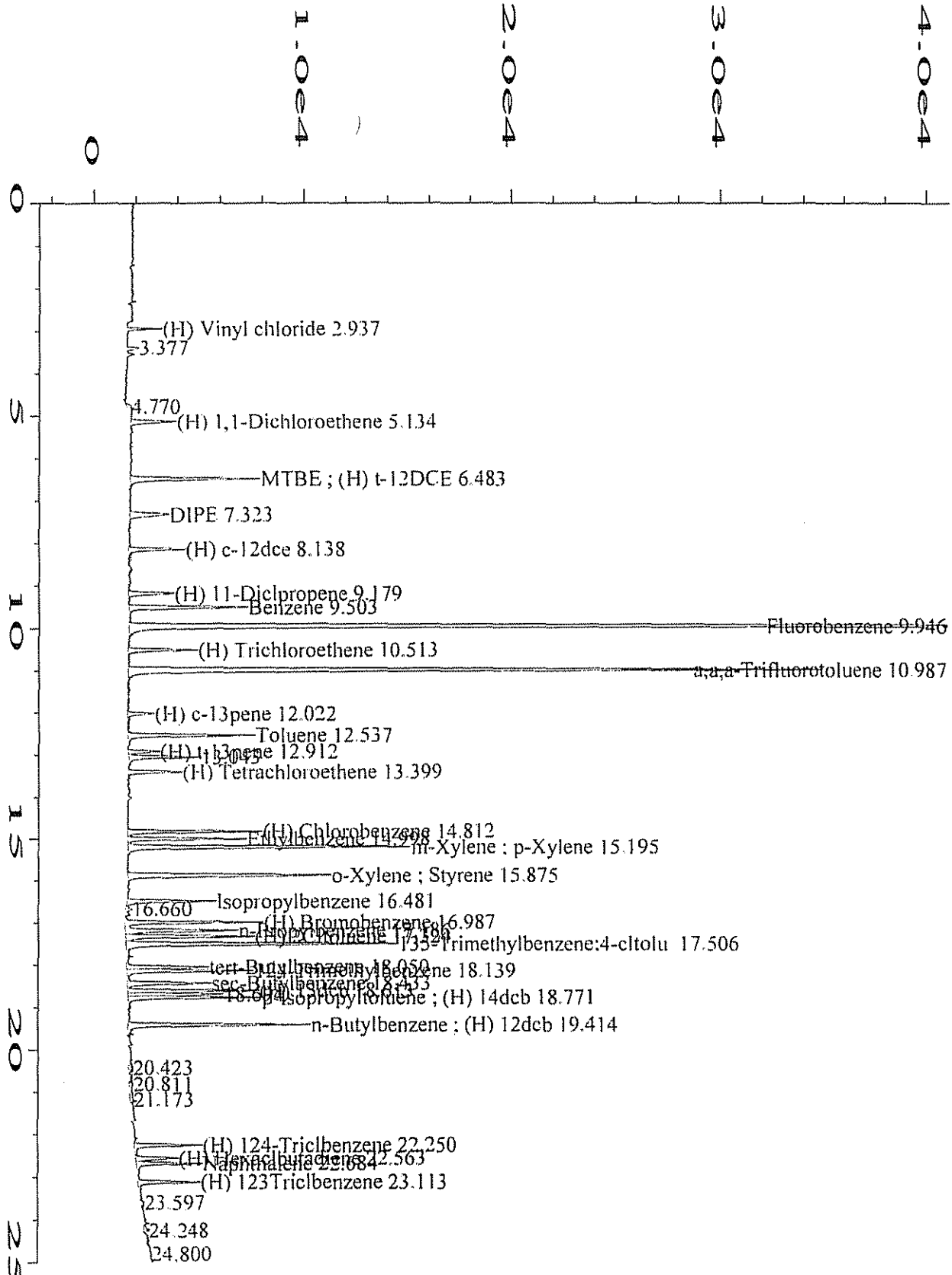
ıltiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

.g. 2 in C:\HPCHEM\1\DATA\080205\022R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.937	3677	BV	0.034	1	0.754	(H) Vinyl chloride
5.134	8885	BV	0.055	1	0.956	(H) 1,1-Dichloroethene
6.483	24620	PV	0.060	1	1.999	MTBE ; (H) t-12DCE
7.323	9945	VV	0.065	1	0.985	DIPE
8.138	10260	VV	0.053	1	1.064	(H) c-12dce
9.179	8745	VV	0.055	1	0.992	(H) 11-Diclpropene
9.503	21564	BV	0.057	1	1.037	Benzene
9.946	253428	PV	0.058	1-I	40.000	Fluorobenzene
10.513	12248	PV	0.056	1	1.086	(H) Trichloroethene
10.987	136252	PV	0.064	1	100.556	a,a,a-Trifluorotoluene
12.022	4441	PV	0.050	1	0.995	(H) c-13pene
12.537	21954	VV	0.056	1	1.086	Toluene
12.912	4918	PV	0.050	1	1.020	(H) t-13pene
13.399	9083	VV	0.053	1	1.061	(H) Tetrachloroethene
14.812	21845	VV	0.052	1	1.071	(H) Chlorobenzene
14.998	19645	VV	0.055	1	1.095	Ethylbenzene
15.195	48481	VV	0.055	1	2.122	m-Xylene ; p-Xylene
15.875	41152	PV	0.066	1	2.103	o-Xylene ; Styrene
16.481	16355	BV	0.057	1	1.111	Isopropylbenzene
16.987	22914	VV	0.052	1	1.136	(H) Bromobenzene
17.186	20563	VV	0.058	1	1.145	n-Propylbenzene
17.324	22203	VV	0.055	1	1.118	(H) 2Cltoluene
17.506	50433	VV	0.060	1	2.292	135-Trimethylbenzene;4-cltolu
18.050	14963	VV	0.057	1	1.164	tert-Butylbenzene
18.139	22074	VV	0.055	1	1.199	124-Trimethylbenzene
18.433	15579	VV	0.057	1	1.166	sec-Butylbenzene
18.613	20839	VV	0.051	1	1.109	(H) 13dcb
18.771	21957	VV	0.052	1	2.199	p-Isopropyltoluene ; (H) 14dcb
19.414	30680	VV	0.055	1	2.427	n-Butylbenzene ; (H) 12dcb
22.250	11827	VV	0.055	1	1.308	(H) 124-Triclbenzene
22.563	8250	VV	0.061	1	1.495	(H) Hexaclbutadiene
22.684	11650	VV	0.055	1	1.313	Naphthalene
23.113	11084	VV	0.056	1	1.397	(H) 123Triclbenzene

ılibration table contains at least one peak with amt = 0



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perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 22
ample Name	: v1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 05:59 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

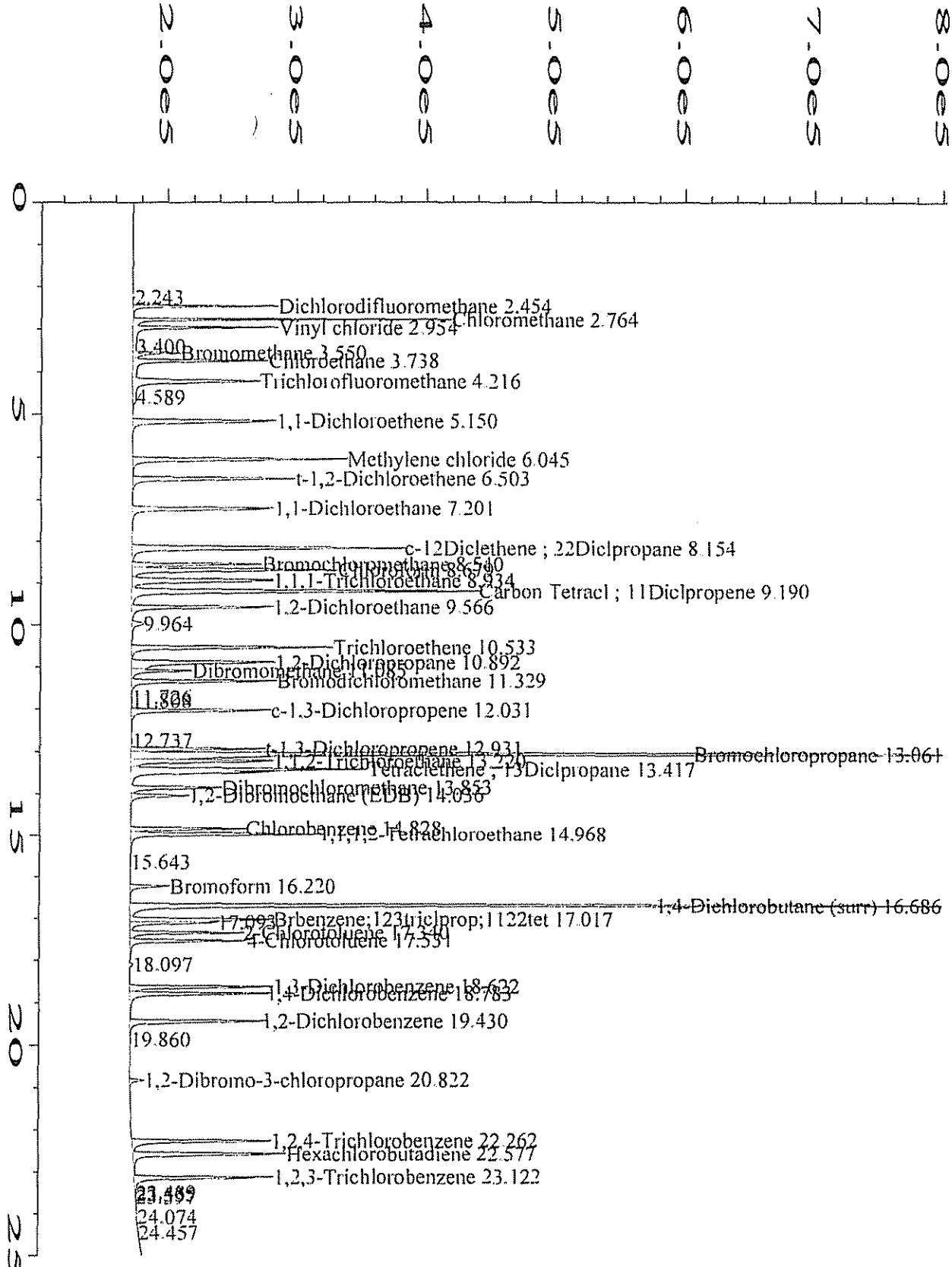
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\023F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : v2
ın Time Bar Code:
ɔquired on : 02 Aug 05 06:31 PM
ɔport Created on: 03 Aug 05 10:17 AM
ıst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 1 in C:\HPCHEM\1\DATA\080205\023F0101.D

ɔt Time	Area	Type	Width	Ref#	µg/L	Name
2.454	276485	BV	0.039	1	1.828	Dichlorodifluoromethane
2.764	476310	VV	0.029	1	1.751	Chloromethane
2.954	372216	VV	0.050	1	2.088	Vinyl chloride
3.550	154572	VV	0.062	1	2.258	Bromomethane
3.738	403388	VV	0.057	1	2.301	Chloroethane
4.216	528183	VV	0.080	1	2.185	Trichlorofluoromethane
5.150	512894	BV	0.063	1	1.787	1,1-Dichloroethene
6.045	625892	BV	0.052	1	1.848	Methylene chloride
6.503	513324	VV	0.054	1	1.735	t-1,2-Dichloroethene
7.201	534118	VV	0.071	1	1.820	1,1-Dichloroethane
8.154	959254	PV	0.065	1	3.557	c-12Diclethene ; 22Diclpropane
8.540	352302	VV	0.055	1	2.118	Bromochloromethane
8.679	690152	VV	0.059	1	1.843	Chloroform
8.934	612861	VV	0.072	1	1.773	1,1,1-Trichloroethane
9.190	1185235	VV	0.066	1	3.325	Carbon Tetracl ; 11Diclpropene
9.566	438390	VV	0.051	1	1.965	1,2-Dichloroethane
10.533	610826	VV	0.054	1	1.826	Trichloroethene
10.892	526313	VV	0.062	1	1.971	1,2-Dichloropropane
11.085	197216	VV	0.064	1	2.122	Dibromomethane
11.329	444034	VV	0.056	1	1.966	Bromodichloromethane
12.031	404554	VV	0.055	1	1.873	c-1,3-Dichloropropene
12.931	318350	VV	0.048	1	2.085	t-1,3-Dichloropropene
13.061	3016028	VV	0.062	1-I	40.000	Bromochloropropane
13.220	498872	VV	0.059	1	1.901	1,1,2-Trichloroethane
13.417	1085462	VV	0.079	1	5.242	Tetraclethene ; 13Diclpropane
13.853	268303	VV	0.061	1	2.089	Dibromochloromethane
14.036	177194	VV	0.061	1	2.048	1,2-Dibromoethane (EDB)
14.828	294086	PV	0.051	1	2.045	Chlorobenzene
14.968	641343	VV	0.061	1	1.801	1,1,1,2-Tetrachloroethane
16.220	113067	BV	0.056	1	1.958	Bromoform
16.686	2227868	PV	0.053	1	102.873	1,4-Dichlorobutane (surr)
17.017	469958	VV	0.066	1	5.953	Brbenzene;123triclprop;1122tet
17.340	312903	VV	0.056	1	1.964	2-Chlorotoluene
17.531	324381	VV	0.054	1	1.984	4-Chlorotoluene
18.622	396644	BV	0.061	1	1.674	1,3-Dichlorobenzene
18.783	461789	VV	0.067	1	1.720	1,4-Dichlorobenzene
19.430	413068	VV	0.062	1	1.828	1,2-Dichlorobenzene
20.822	42002	PV	0.056	1	1.723	1,2-Dibromo-3-chloropropane
22.262	429227	PV	0.066	1	1.736	1,2,4-Trichlorobenzene
22.577	554749	VV	0.070	1	1.661	Hexachlorobutadiene
23.122	414825	VV	0.060	1	1.843	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\023F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 23
ample Name	: v2	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 06:31 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

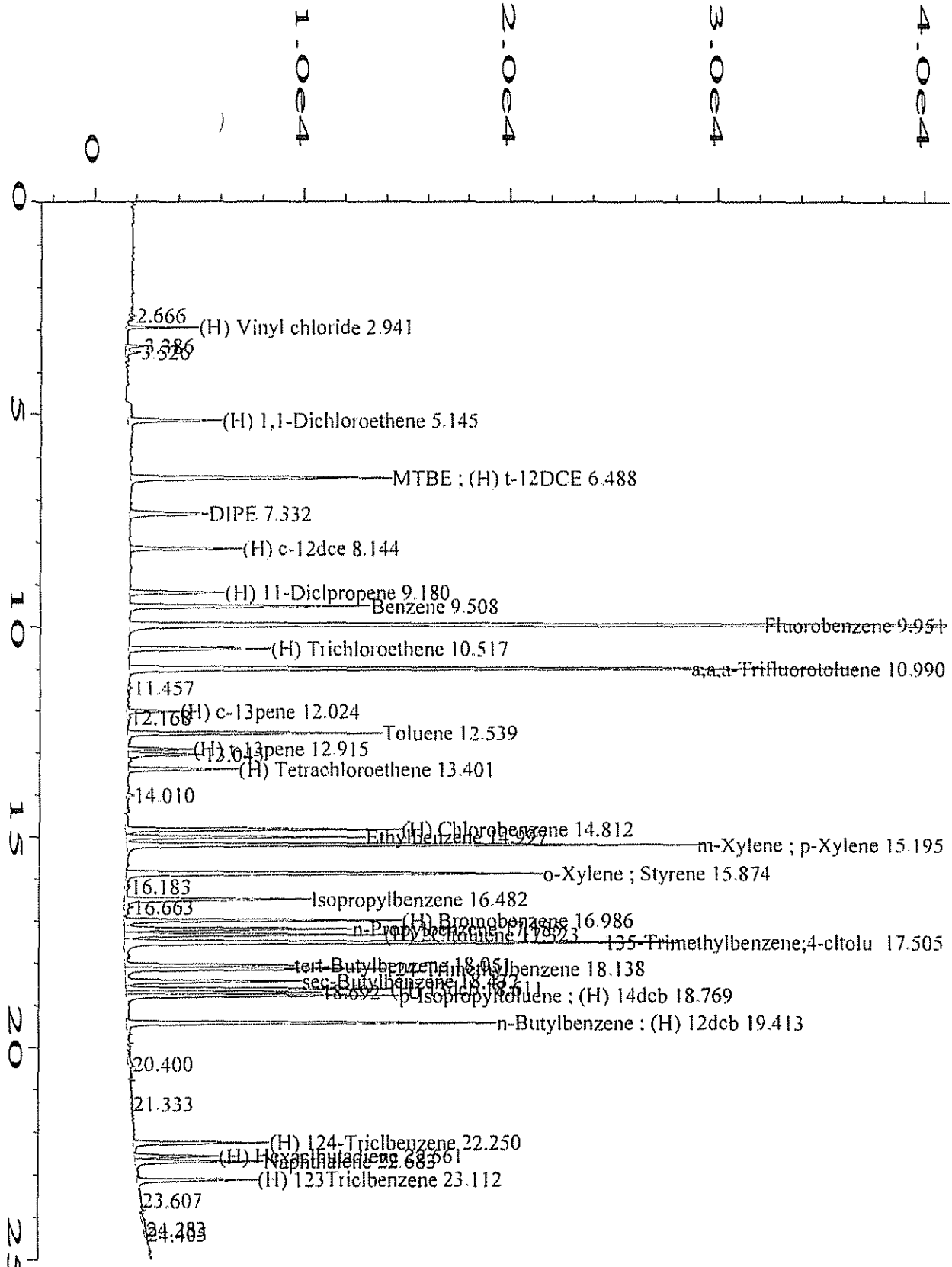
Internal Standard Report

ta File Name	: C:\HPCHEM\1\DATA\080205\023R0101.D		
erator	: MJC	Page Number	: 1
strument	: GC1	Vial Number	: 23
mple Name	: v2	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 02 Aug 05 06:31 PM	Instrument Method	: 8021_HAL.MTH
port Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
st Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	: 40

g. 2 in C:\HPCHEM\1\DATA\080205\023R0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.941	7924	VV	0.034	1	1.887	(H) Vinyl chloride
5.145	19652	VV	0.064	1	2.108	(H) 1,1-Dichloroethene
6.488	49556	VV	0.058	1	3.884	MTBE ; (H) t-12DCE
7.332	20080	VV	0.078	1	1.954	DIPE
8.144	19354	VV	0.055	1	1.924	(H) c-12dce
9.180	17581	PV	0.053	1	1.896	(H) 11-Diclpropene
9.508	43602	PV	0.057	1	1.951	Benzene
9.951	266801	PV	0.058	1-I	40.000	Fluorobenzene
10.517	24740	PV	0.056	1	1.995	(H) Trichloroethene
10.990	144361	PV	0.064	1	101.200	a,a,a-Trifluorotoluene
12.024	9161	VV	0.054	1	2.040	(H) c-13pene
12.539	44515	VV	0.056	1	2.013	Toluene
12.915	9972	VV	0.050	1	1.967	(H) t-13pene
13.401	18937	PV	0.057	1	1.962	(H) Tetrachloroethene
14.812	45345	VV	0.052	1	2.015	(H) Chlorobenzene
14.997	41120	VV	0.056	1	2.003	Ethylbenzene
15.195	99264	VV	0.055	1	3.890	m-Xylene ; p-Xylene
15.874	85726	BV	0.067	1	3.912	o-Xylene ; Styrene
16.482	34209	VV	0.059	1	2.039	Isopropylbenzene
16.986	45461	VV	0.052	1	2.017	(H) Bromobenzene
17.185	39685	VV	0.056	1	1.979	n-Propylbenzene
17.323	44337	VV	0.054	1	1.988	(H) 2Cltoluene
17.505	103883	VV	0.060	1	4.020	135-Trimethylbenzene;4-cltolu
18.051	30671	VV	0.057	1	2.038	tert-Butylbenzene
18.138	45007	VV	0.054	1	2.025	124-Trimethylbenzene
18.432	32823	VV	0.060	1	2.046	sec-Butylbenzene
18.611	42467	VV	0.051	1	1.958	(H) 13dcb
18.769	45022	VV	0.052	1	3.918	p-Isopropyltoluene ; (H) 14dcb
19.413	62910	VV	0.055	1	4.060	n-Butylbenzene ; (H) 12dcb
22.250	23102	VV	0.054	1	2.054	(H) 124-Triclbenzene
22.561	15223	VV	0.060	1	2.199	(H) Hexaclbutadiene
22.683	21490	VV	0.054	1	2.003	Naphthalene
23.112	20009	VV	0.054	1	2.043	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\023R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 23
ample Name	: v2	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 02 Aug 05 06:31 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

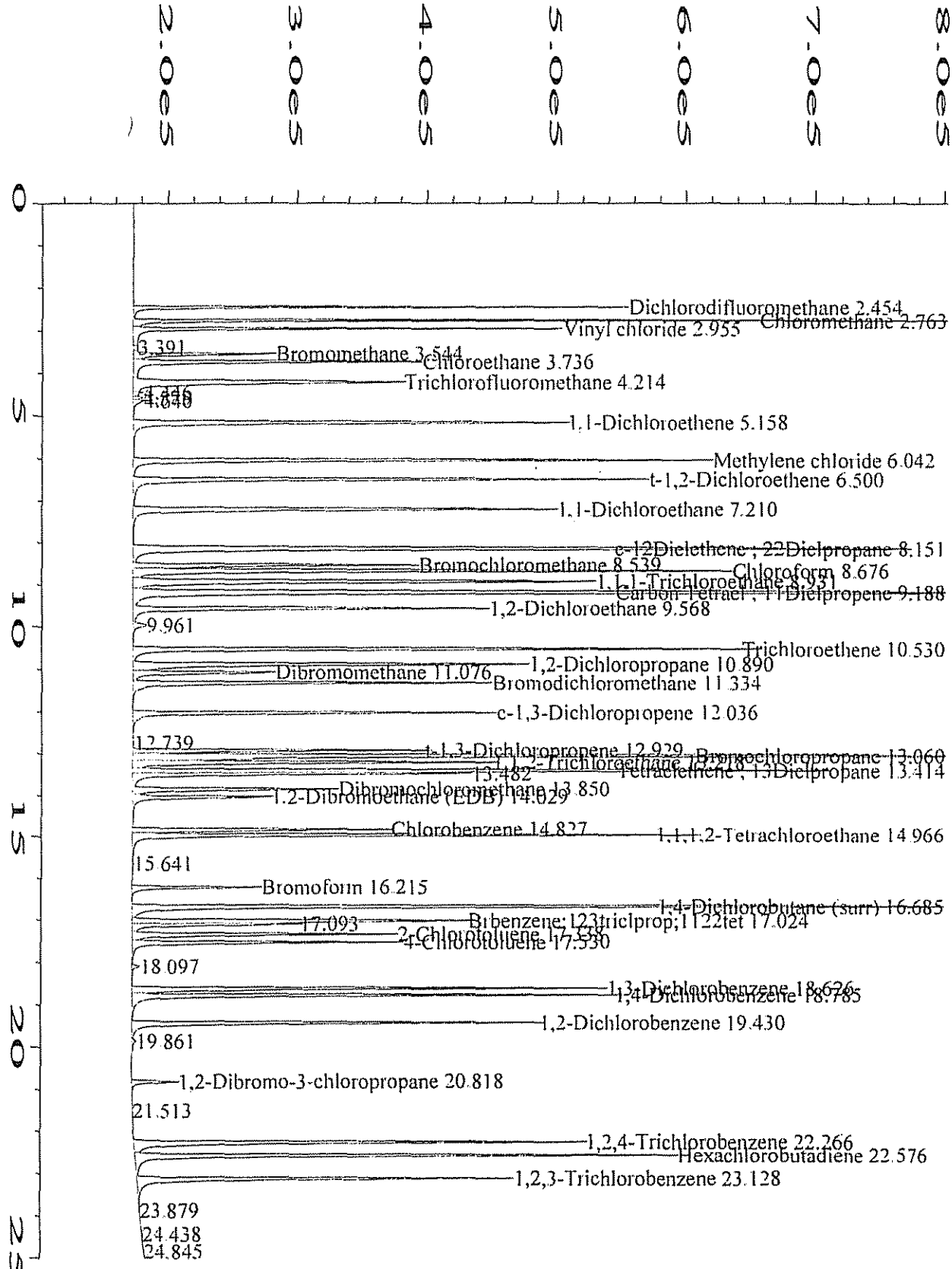
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\080205\024F0101.D
erator : MJC
istrument : GC1
mple Name : v5
n Time Bar Code:
quired on : 02 Aug 05 07:02 PM
port Created on: 03 Aug 05 10:17 AM
st Recalib on : 03 AUG 05 10:02 AM
ltiplier : 1

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\080205\024F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.454	761251	BV	0.031	1	5.120	Dichlorodifluoromethane
2.763	1269736	VV	0.028	1	5.577	Chloromethane
2.955	837088	VV	0.038	1	5.250	Vinyl chloride
3.544	386285	VV	0.052	1	5.181	Bromomethane
3.736	816995	VV	0.051	1	5.026	Chloroethane
4.214	1087782	VV	0.075	1	4.853	Trichlorofluoromethane
5.158	1384526	VV	0.063	1	5.047	1,1-Dichloroethene
6.042	1591606	VV	0.055	1	5.081	Methylene chloride
6.500	1447295	VV	0.056	1	5.094	t-1,2-Dichloroethene
7.210	1412098	VV	0.066	1	5.002	1,1-Dichloroethane
8.151	2612676	VV	0.068	1	10.643	c-12Diclethene ; 22Diclpropane
8.539	796901	VV	0.052	1	4.783	Bromochloromethane
8.676	1841685	VV	0.062	1	5.198	Chloroform
8.931	1653329	VV	0.072	1	5.086	1,1,1-Trichloroethane
9.188	3266304	VV	0.067	1	11.249	Carbon Tetracl ; 11Diclpropene
9.568	1047096	VV	0.056	1	4.955	1,2-Dichloroethane
10.530	1725438	VV	0.056	1	5.173	Trichloroethene
10.890	1261930	VV	0.062	1	5.034	1,2-Dichloropropane
11.076	486111	VV	0.063	1	4.825	Dibromomethane
11.334	1073138	VV	0.057	1	4.898	Bromodichloromethane
12.036	997238	PV	0.052	1	4.995	c-1,3-Dichloropropene
12.929	731567	VV	0.047	1	4.796	t-1,3-Dichloropropene
13.060	3073140	VV	0.061	1-I	40.000	Bromochloropropane
13.218	1098629	VV	0.058	1	5.009	1,1,2-Trichloroethane
13.414	1982071	VV	0.056	1	10.143	Tetraclethene ; 13Diclpropane
13.850	633200	VV	0.065	1	4.708	Dibromochloromethane
14.029	463615	VV	0.069	1	5.097	1,2-Dibromoethane (EDB)
14.827	686825	VV	0.049	1	4.838	Chlorobenzene
14.966	1744096	VV	0.062	1	5.170	1,1,1,2-Tetrachloroethane
16.215	366523	PV	0.054	1	5.207	Bromoform
16.685	2245702	PV	0.053	1	101.770	1,4-Dichlorobutane (surr)
17.024	1081441	VV	0.062	1	14.421	Brbenzene;123triclprop;1122tet
17.338	749397	VV	0.061	1	4.843	2-Chlorotoluene
17.530	770707	VV	0.052	1	4.849	4-Chlorotoluene
18.626	1196204	PV	0.050	1	5.039	1,3-Dichlorobenzene
18.785	1324218	VV	0.053	1	5.060	1,4-Dichlorobenzene
19.430	1120009	VV	0.053	1	4.995	1,2-Dichlorobenzene
20.818	137646	PV	0.057	1	4.856	1,2-Dibromo-3-chloropropane
22.266	1258754	PV	0.055	1	4.943	1,2,4-Trichlorobenzene
22.576	1671771	VV	0.061	1	5.141	Hexachlorobutadiene
23.128	1119997	VV	0.056	1	4.903	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\024F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 24
ample Name	: v5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 07:02 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

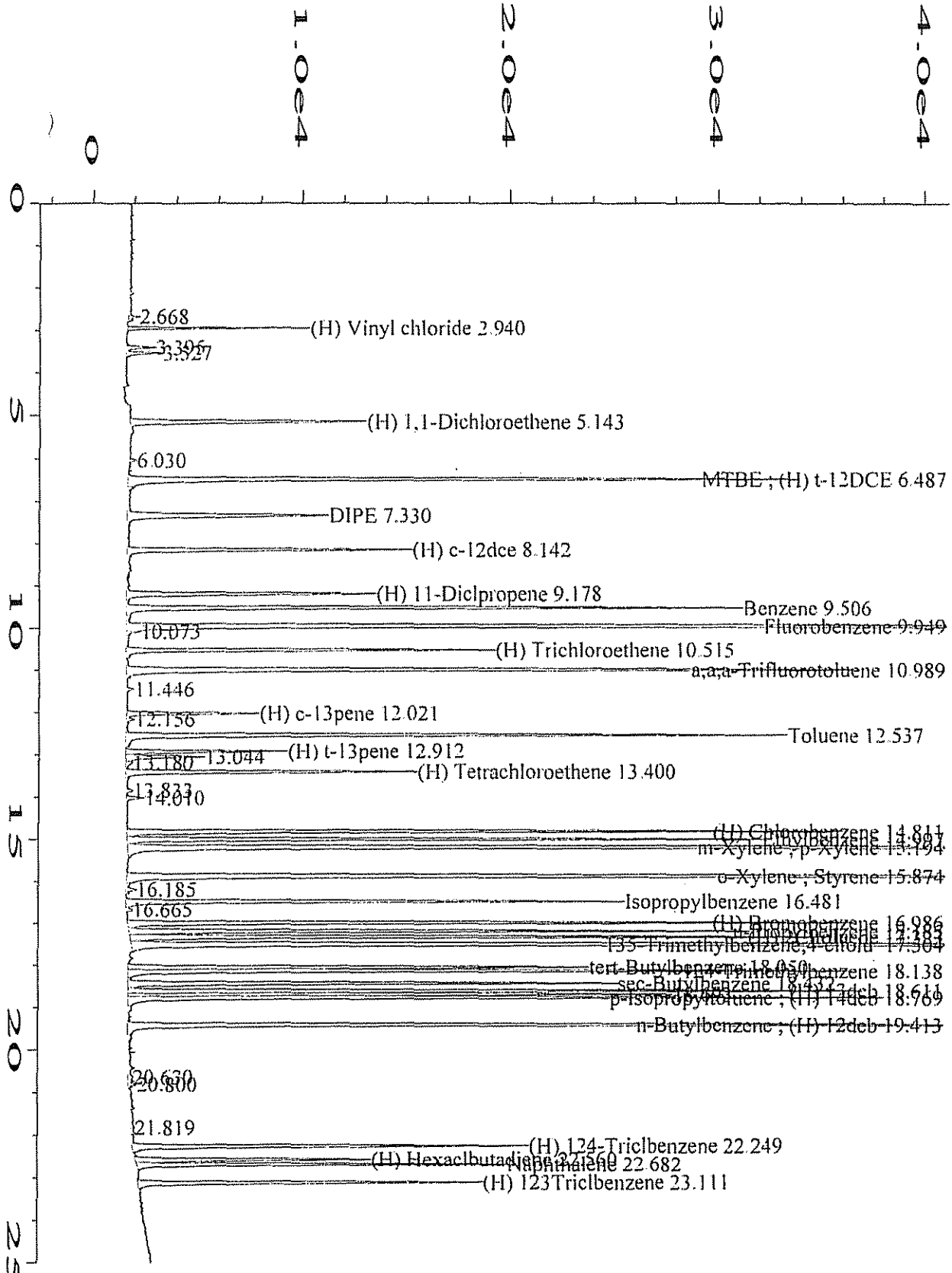
ıta File Name : C:\HPCHEM\1\DATA\080205\024R0101.D
›erator : MJC
ıstrument : GC1
ımple Name : v5
ın Time Bar Code:
:quired on : 02 Aug 05 07:02 PM
:port Created on: 03 Aug 05 10:18 AM
ıst Recalib on : 03 AUG 05 09:47 AM
ıltiplier : 1

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 2 in C:\HPCHEM\1\DATA\080205\024R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.940	18537	PV	0.033	1	4.846	(H) Vinyl chloride
5.143	45628	VV	0.060	1	5.006	(H) 1,1-Dichloroethene
6.487	128058	VV	0.060	1	10.130	MTBE ; (H) t-12DCE
7.330	51386	VV	0.080	1	5.102	DIPE
8.142	50973	VV	0.058	1	5.098	(H) c-12dce
9.178	47275	VV	0.061	1	5.093	(H) 11-Diclpropene
9.506	114565	VV	0.059	1	5.046	Benzene
9.949	267196	VV	0.059	1-I	40.000	Fluorobenzene
10.515	65352	VV	0.057	1	5.106	(H) Trichloroethene
10.989	147683	VV	0.065	1	103.376	a,a,a-Trifluorotoluene
12.021	21701	BV	0.053	1	4.954	(H) c-13pene
12.537	114196	VV	0.056	1	5.024	Toluene
12.912	25403	PV	0.051	1	5.009	(H) t-13pene
13.400	51504	VV	0.057	1	5.087	(H) Tetrachloroethene
14.811	115777	PV	0.052	1	4.982	(H) Chlorobenzene
14.997	107620	VV	0.054	1	4.948	Ethylbenzene
15.194	265182	VV	0.055	1	9.957	m-Xylene ; p-Xylene
15.874	227697	PV	0.067	1	9.952	o-Xylene ; Styrene
16.481	88688	VV	0.057	1	5.010	Isopropylbenzene
16.986	115853	PV	0.051	1	4.919	(H) Bromobenzene
17.185	104021	VV	0.055	1	4.947	n-Propylbenzene
17.323	115896	VV	0.053	1	4.951	(H) 2Cltoluene
17.504	276447	VV	0.058	1	9.877	135-Trimethylbenzene;4-cltolu
18.050	80910	PV	0.057	1	4.975	tert-Butylbenzene
18.138	123487	VV	0.054	1	4.997	124-Trimethylbenzene
18.432	87823	VV	0.058	1	4.988	sec-Butylbenzene
18.611	115946	VV	0.051	1	4.989	(H) 13dcb
18.769	122742	VV	0.051	1	10.004	p-Isopropyltoluene ; (H) 14dcb
19.413	174961	VV	0.053	1	10.023	n-Butylbenzene ; (H) 12dcb
22.249	65093	VV	0.052	1	4.991	(H) 124-Triclbenzene
22.560	42248	VV	0.057	1	5.103	(H) Hexaclbutadiene
22.682	59298	VV	0.051	1	4.827	Naphthalene
23.111	57027	PV	0.053	1	4.903	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\024R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 24
ample Name	: v5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 07:02 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

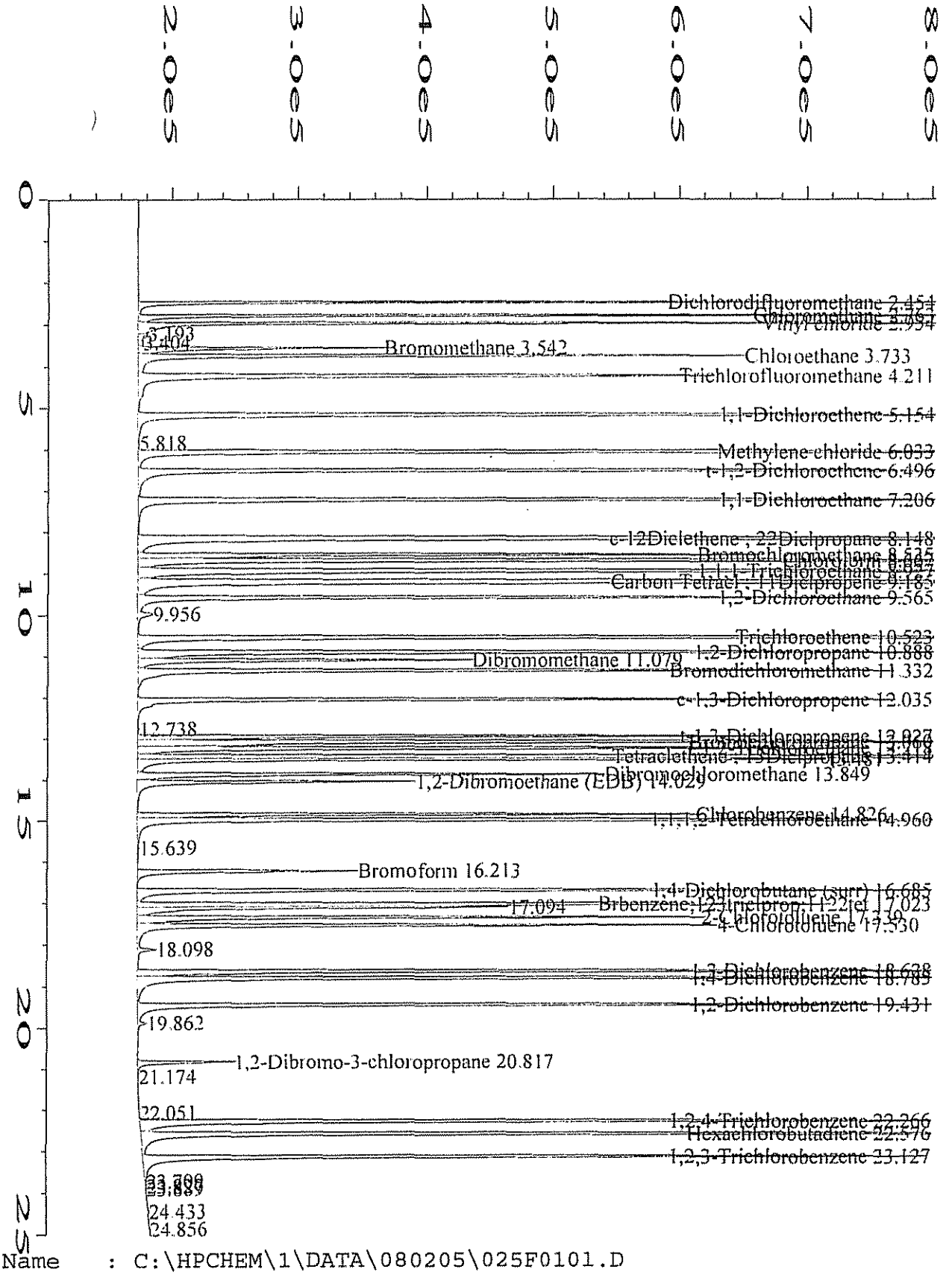
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\025F0101.D
›erator : MJC
ıstrument : GC1
ımple Name : v10
ın Time Bar Code:
:quired on : 02 Aug 05 07:34 PM
:port Created on: 03 Aug 05 10:18 AM
ıst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 1 in C:\HPCHEM\1\DATA\080205\025F0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.454	1581932	BV	0.031	1	10.681	Dichlorodifluoromethane
2.763	2377960	VV	0.028	1	10.904	Chloromethane
2.954	1664221	VV	0.036	1	10.887	Vinyl chloride
3.542	699063	VV	0.049	1	9.116	Bromomethane
3.733	1640657	VV	0.052	1	10.481	Chloroethane
4.211	2281443	VV	0.078	1	10.573	Trichlorofluoromethane
5.154	2931025	VV	0.064	1	10.821	1,1-Dichloroethene
6.033	3084175	VV	0.056	1	10.069	Methylene chloride
6.496	3021527	VV	0.057	1	10.741	t-1,2-Dichloroethene
7.206	3003196	VV	0.067	1	10.760	1,1-Dichloroethane
8.148	4988946	VV	0.062	1	20.795	c-12Diclethene ; 22Diclpropane
8.535	1737252	VV	0.054	1	10.434	Bromochloromethane
8.667	3582317	VV	0.057	1	10.257	Chloroform
8.927	3472263	VV	0.075	1	10.867	1,1,1-Trichloroethane
9.185	6160400	VV	0.063	1	22.230	Carbon Tetracl ; 11Diclpropene
9.565	2202641	VV	0.057	1	10.635	1,2-Dichloroethane
10.523	3360621	VV	0.065	1	10.065	Trichloroethene
10.888	2632343	VV	0.063	1	10.742	1,2-Dichloropropane
11.079	990889	VV	0.054	1	9.547	Dibromomethane
11.332	2286844	VV	0.060	1	10.559	Bromodichloromethane
12.035	2116674	VV	0.055	1	10.892	c-1,3-Dichloropropene
12.927	1568403	VV	0.049	1	10.298	t-1,3-Dichloropropene
13.060	3093926	VV	0.062	1-I	40.000	Bromochloropropane
13.218	2169107	VV	0.059	1	10.569	1,1,2-Trichloroethane
13.414	3731335	VV	0.058	1	19.790	Tetraclethene ; 13Diclpropane
13.849	1344309	VV	0.056	1	9.817	Dibromochloromethane
14.029	891730	VV	0.061	1	9.645	1,2-Dibromoethane (EDB)
14.826	1451876	VV	0.051	1	10.288	Chlorobenzene
14.960	3392555	VV	0.062	1	10.192	1,1,1,2-Tetrachloroethane
16.213	679499	PV	0.058	1	9.193	Bromoform
16.685	2218111	VV	0.054	1	99.844	1,4-Dichlorobutane (surr)
17.023	2282393	VV	0.065	1	31.082	Brbenzene;123triclprop;1122tet
17.339	1593560	VV	0.076	1	10.417	2-Chlorotoluene
17.530	1616211	VV	0.054	1	10.282	4-Chlorotoluene
18.628	2457182	VV	0.052	1	10.327	1,3-Dichlorobenzene
18.785	2681503	VV	0.053	1	10.300	1,4-Dichlorobenzene
19.431	2287985	VV	0.054	1	10.218	1,2-Dichlorobenzene
20.817	301445	PV	0.059	1	10.200	1,2-Dibromo-3-chloropropane
22.266	2579266	PV	0.054	1	10.031	1,2,4-Trichlorobenzene
22.576	3316061	VV	0.062	1	10.243	Hexachlorobutadiene
23.127	2267823	VV	0.056	1	9.874	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\025F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 25
ample Name	: v10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 07:34 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

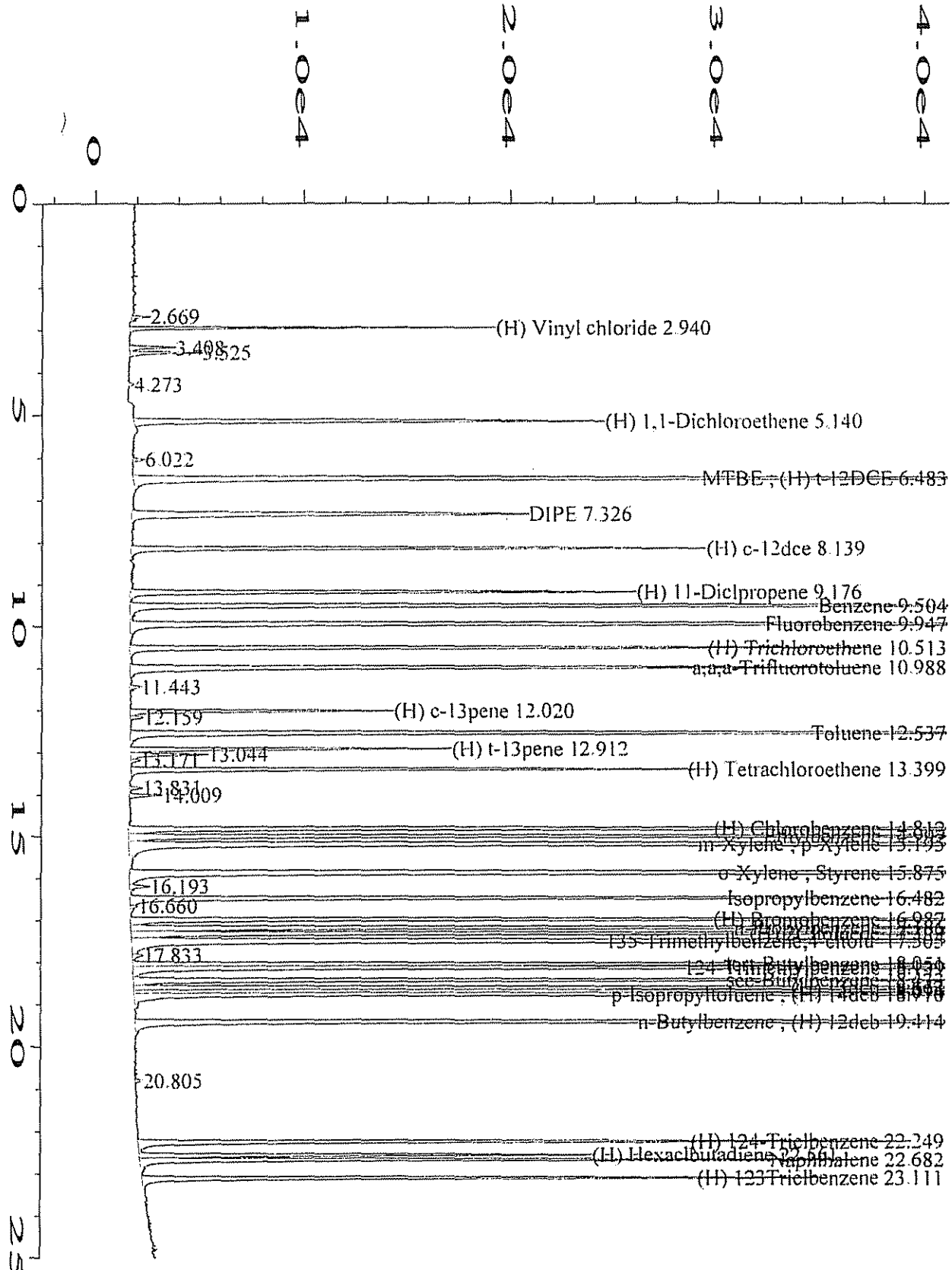
ta File Name : C:\HPCHEM\1\DATA\080205\025R0101.D
erator : MJC
istrument : GC1
mple Name : v10
n Time Bar Code:
quired on : 02 Aug 05 07:34 PM
port Created on: 03 Aug 05 10:18 AM
st Recalib on : 03 AUG 05 09:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\080205\025R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.940	37811	PV	0.033	1	10.035	(H) Vinyl chloride
5.140	91290	PV	0.063	1	9.924	(H) 1,1-Dichloroethene
6.483	253415	BV	0.059	1	19.752	MTBE ; (H) t-12DCE
7.326	100135	VV	0.082	1	9.827	DIPE
8.139	100993	VV	0.056	1	9.940	(H) c-12dce
9.176	94420	VV	0.061	1	9.991	(H) 11-Diclpropene
9.504	229853	VV	0.059	1	9.899	Benzene
9.947	272080	VV	0.059	1-I	40.000	Fluorobenzene
10.513	129666	VV	0.056	1	9.859	(H) Trichloroethene
10.988	152351	VV	0.065	1	104.729	a,a,a-Trifluorotoluene
12.020	43262	PV	0.053	1	9.790	(H) c-13pene
12.537	226622	PV	0.055	1	9.712	Toluene
12.912	49443	VV	0.049	1	9.577	(H) t-13pene
13.399	101220	PV	0.056	1	9.686	(H) Tetrachloroethene
14.812	231692	PV	0.052	1	9.696	(H) Chlorobenzene
14.997	218006	VV	0.054	1	9.668	Ethylbenzene
15.195	531257	VV	0.055	1	19.348	m-Xylene ; p-Xylene
15.875	454061	VV	0.067	1	19.245	o-Xylene ; Styrene
16.482	176075	VV	0.057	1	9.606	Isopropylbenzene
16.987	231384	PV	0.051	1	9.514	(H) Bromobenzene
17.186	208181	VV	0.054	1	9.585	n-Propylbenzene
17.323	232199	VV	0.053	1	9.597	(H) 2Cltoluene
17.505	559181	VV	0.059	1	19.142	135-Trimethylbenzene;4-cltolu
18.051	161443	VV	0.056	1	9.517	tert-Butylbenzene
18.139	246148	VV	0.054	1	9.477	124-Trimethylbenzene
18.433	175043	VV	0.059	1	9.489	sec-Butylbenzene
18.612	228716	VV	0.050	1	9.475	(H) 13dcb
18.770	240458	VV	0.051	1	18.891	p-Isopropyltoluene ; (H) 14dcb
19.414	342575	PV	0.053	1	18.623	n-Butylbenzene ; (H) 12dcb
22.249	125869	PV	0.052	1	9.087	(H) 124-Triclbenzene
22.561	81591	VV	0.058	1	9.176	(H) Hexaclbutadiene
22.682	117470	VV	0.051	1	9.017	Naphthalene
23.111	112004	VV	0.052	1	8.999	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\025R0101.D		
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nstrument	: GC1	Vial Number	: 25
ample Name	: v10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 07:34 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

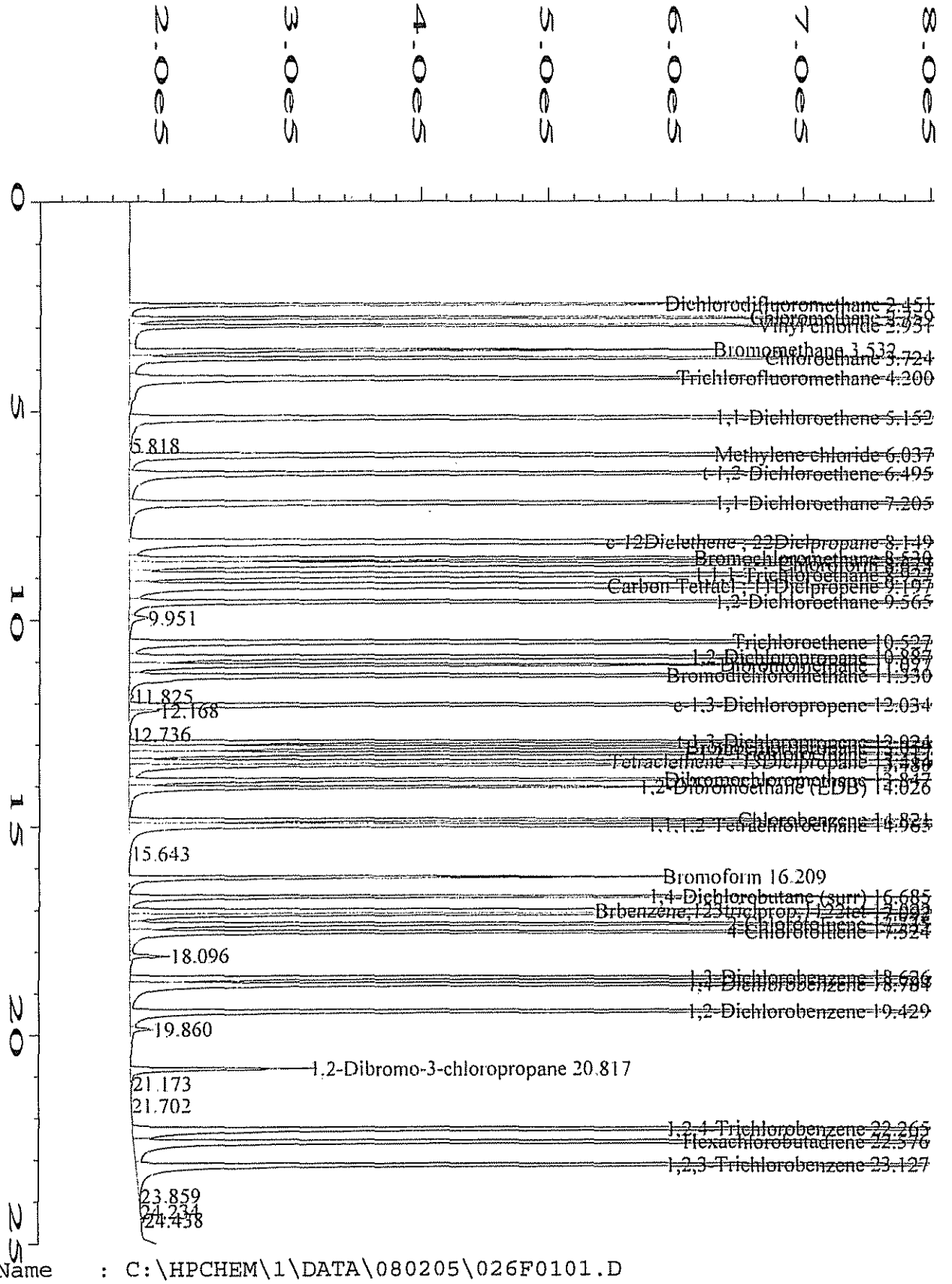
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\080205\026F0101.D
)erator : MJC
ıstrument : GC1
ımple Name : v20
ın Time Bar Code:
:quired on : 02 Aug 05 08:05 PM
:port Created on: 03 Aug 05 10:18 AM
ıst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 1

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\080205\026F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.451	2907487	PV	0.032	1	19.661	Dichlorodifluoromethane
2.759	4321152	VV	0.035	1	20.257	Chloromethane
2.951	2983945	VV	0.036	1	19.883	Vinyl chloride
3.532	1589550	VV	0.051	1	20.354	Bromomethane
3.724	3051657	VV	0.060	1	19.830	Chloroethane
4.200	4299901	VV	0.072	1	20.245	Trichlorofluoromethane
5.152	5303328	VV	0.060	1	19.674	1,1-Dichloroethene
6.037	5994109	VV	0.053	1	19.807	Methylene chloride
6.495	5476732	VV	0.053	1	19.547	t-1,2-Dichloroethene
7.205	5440368	VV	0.063	1	19.575	1,1-Dichloroethane
8.149	9788214	VV	0.065	1	41.328	c-12Diclethene ; 22Diclpropane
8.530	3307401	VV	0.061	1	19.864	Bromochloromethane
8.673	6838817	VV	0.058	1	19.731	Chloroform
8.927	6226071	VV	0.068	1	19.617	1,1,1-Trichloroethane
9.197	1.12587E+007	VV	0.072	1	41.597	Carbon Tetracl ; 11Diclpropene
9.565	4071921	VV	0.058	1	19.822	1,2-Dichloroethane
10.527	6619471	VV	0.054	1	19.827	Trichloroethene
10.887	4814327	VV	0.064	1	19.829	1,2-Dichloropropane
11.077	2118203	VV	0.055	1	20.103	Dibromomethane
11.330	4282914	VV	0.060	1	19.865	Bromodichloromethane
12.034	3827785	VV	0.055	1	19.903	c-1,3-Dichloropropene
12.924	3085449	VV	0.056	1	20.271	t-1,3-Dichloropropene
13.059	3102990	VV	0.060	1-I	40.000	Bromochloropropane
13.217	4003702	VV	0.058	1	20.103	1,1,2-Trichloroethane
13.414	7437552	VV	0.055	1	40.266	Tetraclethene ; 13Diclpropane
13.847	2899022	VV	0.057	1	20.993	Dibromochloromethane
14.026	1884741	VV	0.059	1	20.212	1,2-Dibromoethane (EDB)
14.821	2889411	VV	0.056	1	20.530	Chlorobenzene
14.965	6600138	VV	0.059	1	19.974	1,1,1,2-Tetrachloroethane
16.209	1542051	PV	0.055	1	20.211	Bromoform
16.685	2302437	VV	0.054	1	103.337	1,4-Dichlorobutane (surr)
17.022	4450801	VV	0.068	1	61.168	Brbenzene;123triclprop;1122tet
17.335	3102075	VV	0.062	1	20.377	2-Chlorotoluene
17.524	3190784	VV	0.059	1	20.403	4-Chlorotoluene
18.626	4816619	PV	0.053	1	20.226	1,3-Dichlorobenzene
18.784	5266209	VV	0.054	1	20.286	1,4-Dichlorobenzene
19.429	4523988	VV	0.055	1	20.223	1,2-Dichlorobenzene
20.817	608369	VV	0.057	1	20.213	1,2-Dibromo-3-chloropropane
22.265	5210127	PV	0.055	1	20.175	1,2,4-Trichlorobenzene
22.576	6442709	VV	0.062	1	19.952	Hexachlorobutadiene
23.127	4681191	VV	0.057	1	20.336	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\026F0101.D		
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nstrument	: GC1	Vial Number	: 26
ample Name	: v20	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 08:05 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

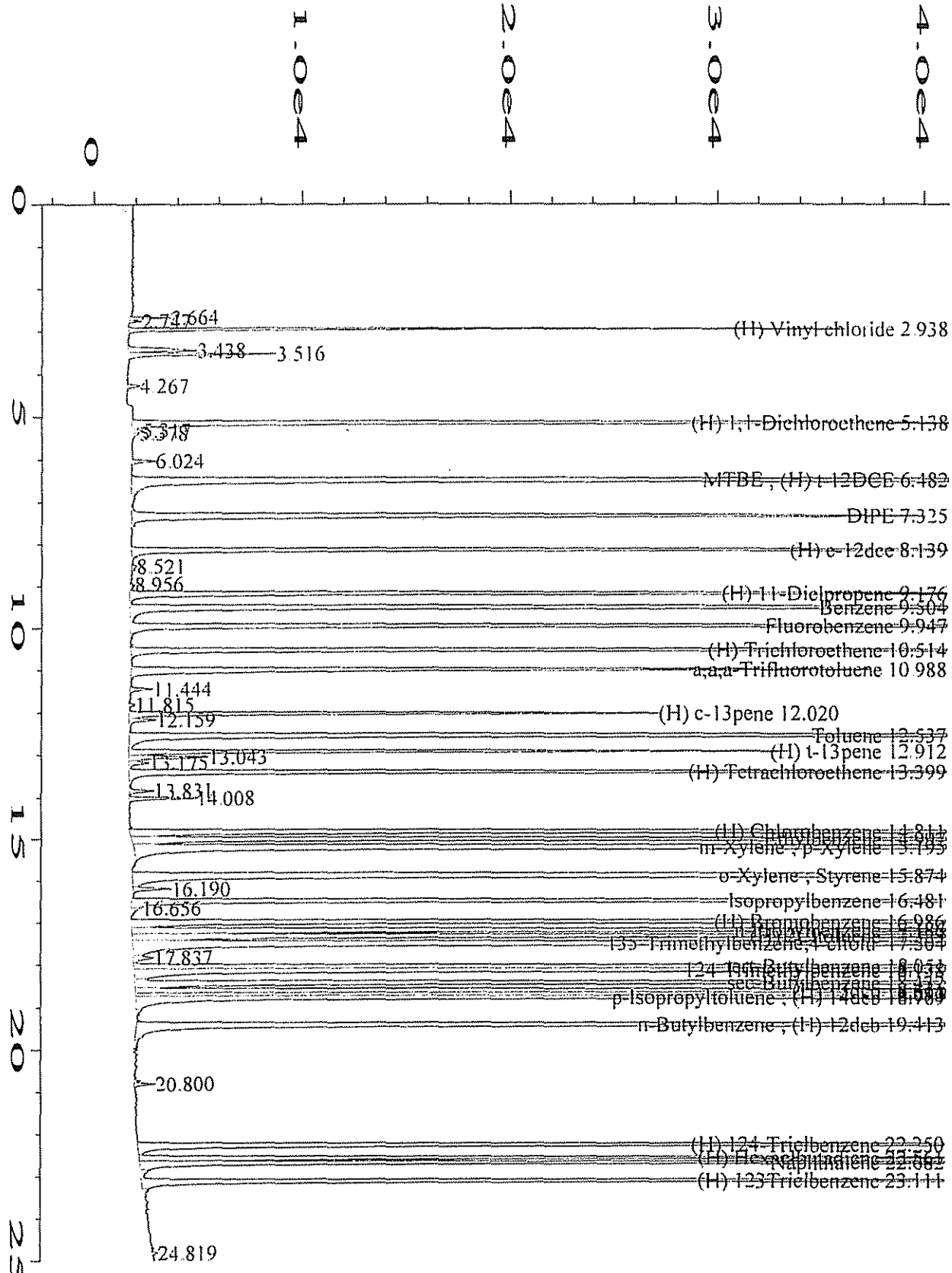
.ta File Name : C:\HPCHEM\1\DATA\080205\026R0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : v20
ın Time Bar Code:
:quired on : 02 Aug 05 08:05 PM
ɜport Created on: 03 Aug 05 10:18 AM
ıst Recalib on : 03 AUG 05 09:47 AM
ılticplier : 1

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 2 in C:\HPCHEM\1\DATA\080205\026R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.938	74410	PV	0.033	1	20.350	(H) Vinyl chloride
5.138	177752	BV	0.063	1	19.680	(H) 1,1-Dichloroethene
6.482	502134	PV	0.060	1	39.753	MTBE ; (H) t-12DCE
7.325	200012	PV	0.081	1	19.975	DIPE
8.139	196273	PV	0.056	1	19.610	(H) c-12dce
9.176	184137	PV	0.060	1	19.758	(H) 11-Diclpropene
9.504	454984	VV	0.059	1	19.825	Benzene
9.947	268331	VV	0.059	1-I	40.000	Fluorobenzene
10.514	255138	PV	0.056	1	19.575	(H) Trichloroethene
10.988	156596	BV	0.067	1	109.152	a,a,a-Trifluorotoluene
12.020	86554	VV	0.053	1	19.958	(H) c-13pene
12.537	459581	VV	0.055	1	19.882	Toluene
12.912	101662	VV	0.050	1	19.970	(H) t-13pene
13.399	205624	VV	0.056	1	19.803	(H) Tetrachloroethene
14.811	470416	PV	0.051	1	19.855	(H) Chlorobenzene
14.997	444857	VV	0.055	1	19.815	Ethylbenzene
15.195	1085835	VV	0.055	1	39.828	m-Xylene ; p-Xylene
15.874	934453	PV	0.066	1	39.882	o-Xylene ; Styrene
16.481	359864	BV	0.057	1	19.726	Isopropylbenzene
16.986	481830	PV	0.051	1	19.935	(H) Bromobenzene
17.186	427394	VV	0.054	1	19.797	n-Propylbenzene
17.323	477947	VV	0.054	1	19.870	(H) 2Cltoluene
17.504	1148977	VV	0.059	1	39.355	135-Trimethylbenzene;4-cltolu
18.051	333841	VV	0.056	1	19.691	tert-Butylbenzene
18.138	507170	VV	0.054	1	19.454	124-Trimethylbenzene
18.432	362293	VV	0.058	1	19.599	sec-Butylbenzene
18.611	477928	VV	0.050	1	19.850	(H) 13dcb
18.769	504595	VV	0.051	1	39.763	p-Isopropyltoluene ; (H) 14dcb
19.413	723538	VV	0.053	1	39.079	n-Butylbenzene ; (H) 12dcb
22.250	273518	PV	0.052	1	19.499	(H) 124-Triclbenzene
22.561	170817	VV	0.058	1	18.851	(H) Hexaclbutadiene
22.682	261216	VV	0.051	1	19.835	Naphthalene
23.111	247218	VV	0.052	1	19.529	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\026R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 26
ample Name	: v20	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 08:05 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

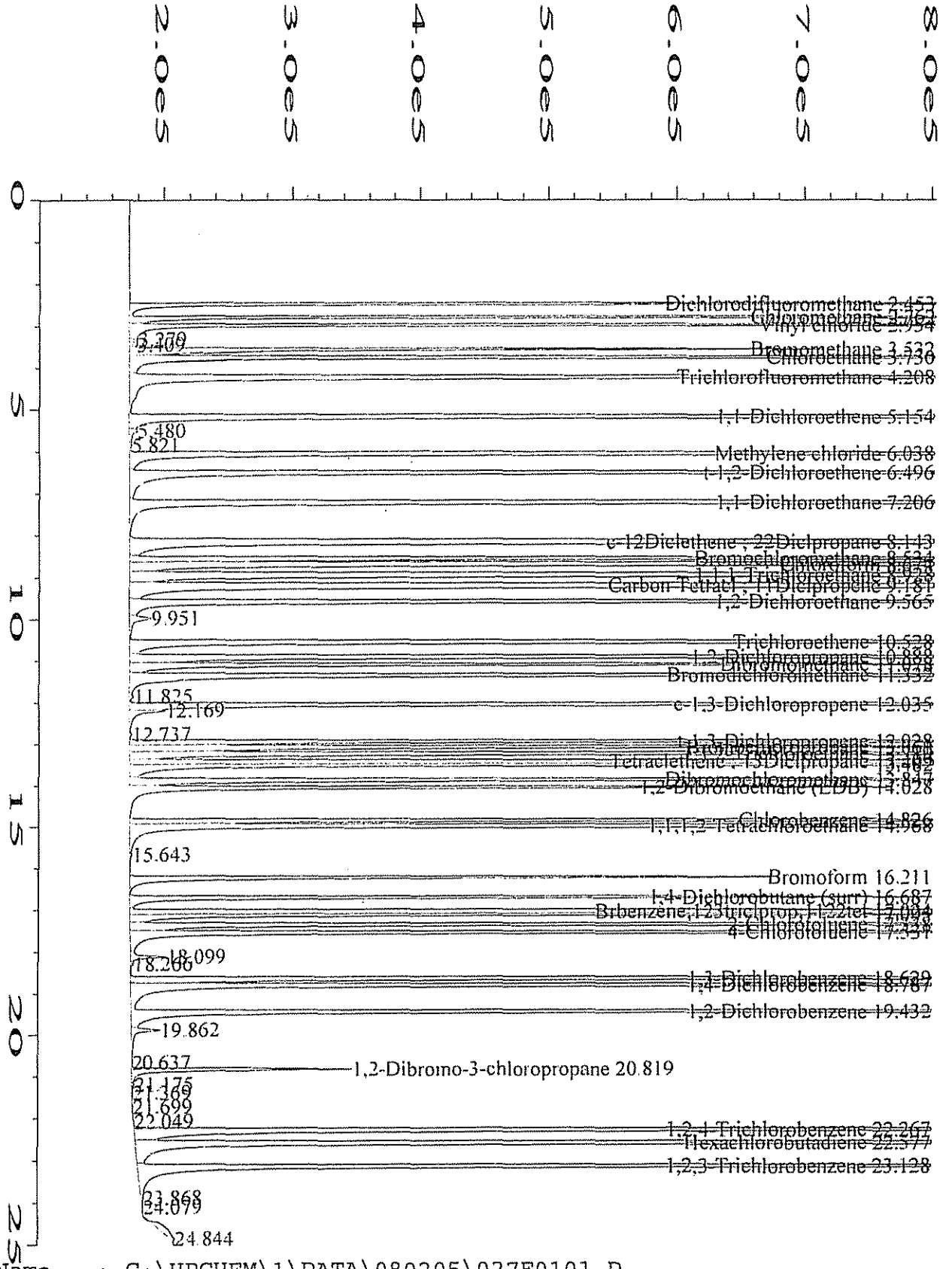
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\080205\027F0101.D
erator : MJC
strument : GC1
mple Name : v25
n Time Bar Code:
quired on : 02 Aug 05 08:37 PM
port Created on: 03 Aug 05 10:18 AM
st Recalib on : 03 AUG 05 10:02 AM
ltiplier : 1

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\080205\027F0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.453	3583552	BV	0.031	1	24.996	Dichlorodifluoromethane
2.762	5018655	VV	0.035	1	24.362	Chloromethane
2.954	3586238	VV	0.035	1	24.748	Vinyl chloride
3.532	1900055	VV	0.052	1	25.012	Bromomethane
3.730	3706347	VV	0.054	1	24.930	Chloroethane
4.208	5052803	VV	0.072	1	24.602	Trichlorofluoromethane
5.154	6513274	VV	0.060	1	24.947	1,1-Dichloroethene
6.038	7353544	VV	0.054	1	25.119	Methylene chloride
6.496	6805449	VV	0.054	1	25.073	t-1,2-Dichloroethene
7.206	6745268	VV	0.064	1	25.055	1,1-Dichloroethane
8.143	1.11331E+007	VV	0.070	1	48.551	c-12Diclethene ; 22Diclpropane
8.534	4032742	VV	0.056	1	24.973	Bromochloromethane
8.674	8418832	VV	0.060	1	25.088	Chloroform
8.928	7671241	VV	0.070	1	24.969	1,1,1-Trichloroethane
9.181	1.24801E+007	VV	0.068	1	47.697	Carbon Tetracl ; 11Diclpropene
9.565	4952581	VV	0.058	1	24.907	1,2-Dichloroethane
10.528	8124692	VV	0.055	1	25.091	Trichloroethene
10.888	5837576	VV	0.059	1	24.847	1,2-Dichloropropane
11.078	2574051	VV	0.055	1	25.116	Dibromomethane
11.332	5203864	VV	0.056	1	24.913	Bromodichloromethane
12.035	4603769	VV	0.055	1	24.743	c-1,3-Dichloropropene
12.928	3646759	VV	0.051	1	24.703	t-1,3-Dichloropropene
13.061	3011557	VV	0.062	1-I	40.000	Bromochloropropane
13.219	4741844	VV	0.057	1	24.703	1,1,2-Trichloroethane
13.409	8884419	VV	0.056	1	49.778	Tetraclethene ; 13Diclpropane
13.847	3262707	VV	0.064	1	24.329	Dibromochloromethane
14.028	2260143	VV	0.059	1	24.949	1,2-Dibromoethane (EDB)
14.826	3342959	VV	0.058	1	24.496	Chlorobenzene
14.968	7977320	VV	0.059	1	24.928	1,1,1,2-Tetrachloroethane
16.211	1867913	PV	0.056	1	25.108	Bromoform
16.687	2182673	VV	0.054	1	100.936	1,4-Dichlorobutane (surr)
17.024	5198005	VV	0.069	1	73.763	Brbenzene;123triclprop;1122tet
17.338	3625377	VV	0.060	1	24.572	2-Chlorotoluene
17.531	3728770	VV	0.056	1	24.601	4-Chlorotoluene
18.629	5708186	VV	0.050	1	24.707	1,3-Dichlorobenzene
18.787	6207274	VV	0.052	1	24.663	1,4-Dichlorobenzene
19.432	5369821	VV	0.054	1	24.750	1,2-Dichlorobenzene
20.819	726401	VV	0.062	1	24.796	1,2-Dibromo-3-chloropropane
22.267	6236099	VV	0.052	1	24.875	1,2,4-Trichlorobenzene
22.577	7806721	VV	0.059	1	24.940	Hexachlorobutadiene
23.128	5541950	VV	0.057	1	24.809	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\027F0101.D		
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nstrument	: GC1	Vial Number	: 27
ample Name	: v25	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 08:37 PM	Instrument Method	: 8021_HAL.MTH
eport Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

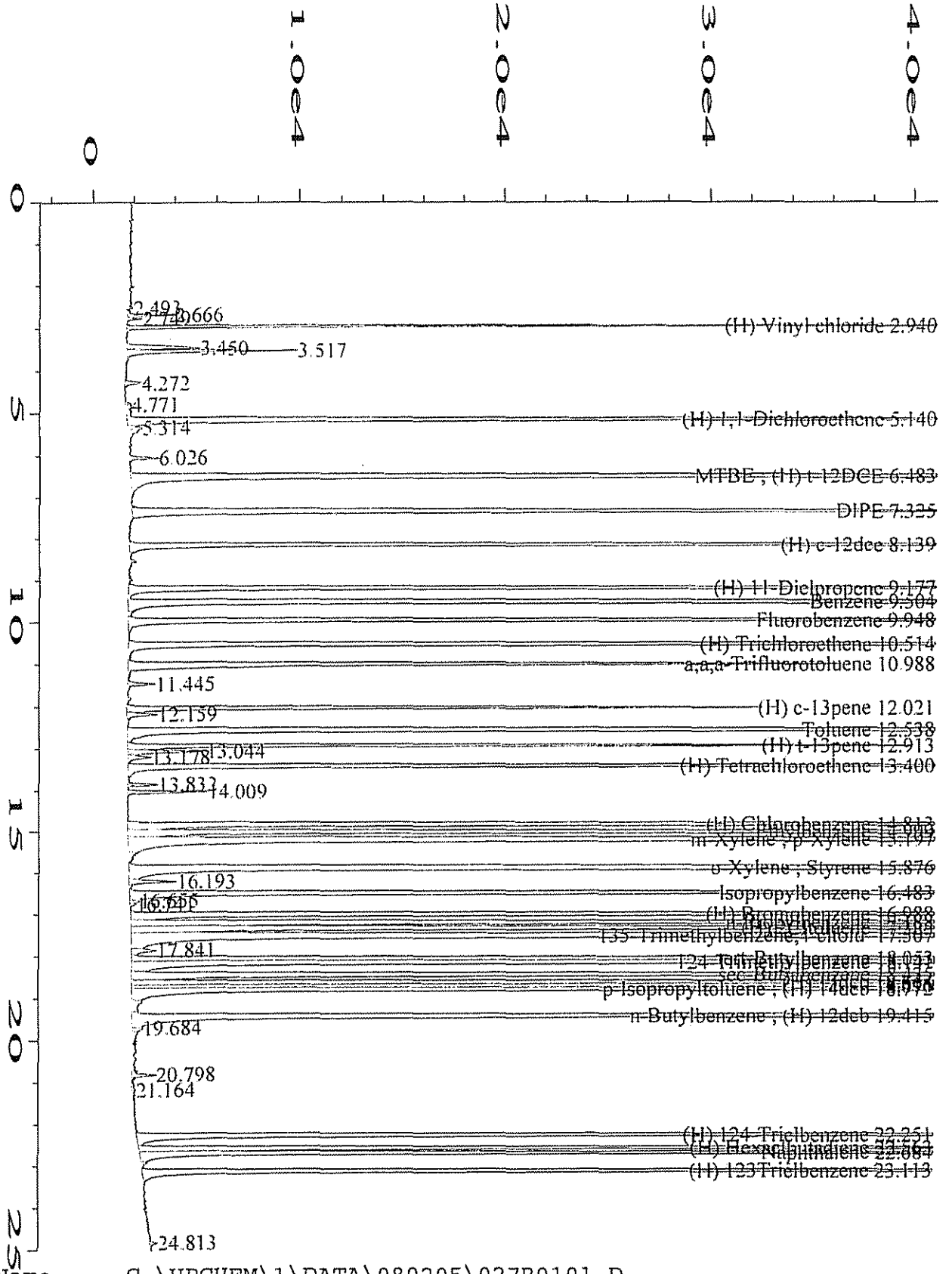
ta File Name : C:\HPCHEM\1\DATA\080205\027R0101.D
erator : MJC
istrument : GC1
mple Name : v25
n Time Bar Code:
quired on : 02 Aug 05 08:37 PM
port Created on: 03 Aug 05 10:18 AM
st Recalib on : 03 AUG 05 09:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\080205\027R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.940	91206	BV	0.033	1	25.471	(H) Vinyl chloride
5.140	222665	VV	0.063	1	25.118	(H) 1,1-Dichloroethene
6.483	615679	PV	0.059	1	49.630	MTBE ; (H) t-12DCE
7.325	238513	VV	0.080	1	24.261	DIPE
8.139	242763	VV	0.056	1	24.694	(H) c-12dce
9.177	223877	VV	0.059	1	24.452	(H) 11-Diclpropene
9.504	549551	VV	0.059	1	24.363	Benzene
9.948	263620	VV	0.058	1-I	40.000	Fluorobenzene
10.514	312849	BV	0.056	1	24.408	(H) Trichloroethene
10.988	156010	VV	0.068	1	110.687	a,a,a-Trifluorotoluene
12.021	104407	PV	0.053	1	24.526	(H) c-13pene
12.538	550426	VV	0.055	1	24.219	Toluene
12.913	121846	VV	0.050	1	24.363	(H) t-13pene
13.400	247770	VV	0.056	1	24.256	(H) Tetrachloroethene
14.813	562774	PV	0.052	1	24.157	(H) Chlorobenzene
14.999	534938	VV	0.054	1	24.214	Ethylbenzene
15.197	1306821	VV	0.055	1	48.734	m-Xylene ; p-Xylene
15.876	1120293	VV	0.067	1	48.612	o-Xylene ; Styrene
16.483	433234	VV	0.057	1	24.134	Isopropylbenzene
16.988	573323	BV	0.051	1	24.115	(H) Bromobenzene
17.188	515930	VV	0.054	1	24.292	n-Propylbenzene
17.325	573941	VV	0.053	1	24.254	(H) 2Cltoluene
17.507	1392031	VV	0.059	1	48.419	135-Trimethylbenzene;4-cltolu
18.053	403352	VV	0.057	1	24.160	tert-Butylbenzene
18.141	618709	VV	0.054	1	24.079	124-Trimethylbenzene
18.435	440408	VV	0.058	1	24.183	sec-Butylbenzene
18.614	574332	VV	0.050	1	24.235	(H) 13dcb
18.772	605867	VV	0.051	1	48.511	p-Isopropyltoluene ; (H) 14dcb
19.415	874757	VV	0.053	1	47.929	n-Butylbenzene ; (H) 12dcb
22.251	327219	VV	0.052	1	23.650	(H) 124-Triclbenzene
22.563	207370	VV	0.058	1	23.162	(H) Hexaclbutadiene
22.684	309322	VV	0.051	1	23.827	Naphthalene
23.113	292176	VV	0.052	1	23.393	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\080205\027R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 27
ample Name	: v25	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 08:37 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:19 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

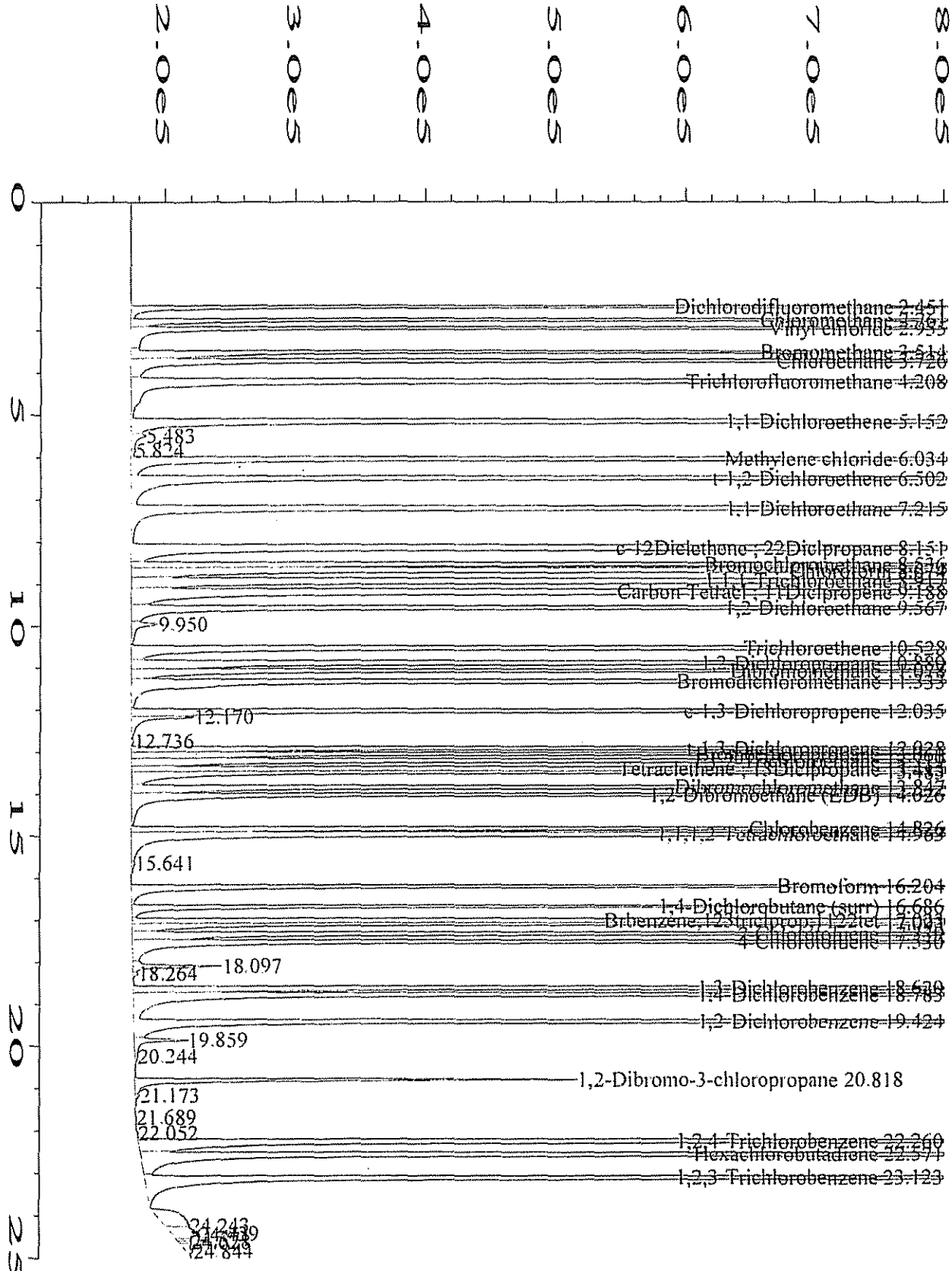
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\080205\028F0101.D
erator : MJC
strument : GC1
mple Name : v40
n Time Bar Code:
quired on : 02 Aug 05 09:08 PM
port Created on: 03 Aug 05 10:19 AM
st Recalib on : 03 AUG 05 10:02 AM
ltiplier : 1

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\080205\028F0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.451	5289795	BV	0.039	1	36.180	Dichlorodifluoromethane
2.761	7753401	VV	0.029	1	37.173	Chloromethane
2.955	5686355	VV	0.036	1	38.721	Vinyl chloride
3.514	3092189	VV	0.060	1	39.714	Bromomethane
3.726	6000047	VV	0.052	1	39.790	Chloroethane
4.208	8252364	VV	0.072	1	39.603	Trichlorofluoromethane
5.152	1.02054E+007	VV	0.065	1	38.378	1,1-Dichloroethene
6.034	1.02693E+007	VV	0.064	1	34.467	Methylene chloride
6.502	9922764	VV	0.056	1	35.871	t-1,2-Dichloroethene
7.215	1.09025E+007	VV	0.060	1	39.759	1,1-Dichloroethane
8.151	1.6097E+007	VV	0.064	1	69.024	c-12Diclethene ; 22Diclpropane
8.536	6831566	VV	0.053	1	41.471	Bromochloromethane
8.674	1.14601E+007	VV	0.061	1	33.519	Chloroform
8.917	1.18313E+007	VV	0.067	1	37.832	1,1,1-Trichloroethane
9.188	1.97437E+007	VV	0.065	1	74.620	Carbon Tetracl ; 11Diclpropene
9.567	8235442	VV	0.056	1	40.721	1,2-Dichloroethane
10.528	1.09483E+007	VV	0.056	1	33.129	Trichloroethene
10.889	9720429	VV	0.062	1	40.700	1,2-Dichloropropane
11.078	4007080	VV	0.056	1	38.173	Dibromomethane
11.333	8752657	VV	0.058	1	41.144	Bromodichloromethane
12.035	7735043	VV	0.051	1	40.921	c-1,3-Dichloropropene
12.928	6213332	VV	0.048	1	41.266	t-1,3-Dichloropropene
13.061	3075340	VV	0.062	1-I	40.000	Bromochloropropane
13.219	7953408	VV	0.055	1	41.073	1,1,2-Trichloroethane
13.415	1.24956E+007	VV	0.057	1	68.916	Tetraclethene ; 13Diclpropane
13.847	5483953	VV	0.057	1	39.979	Dibromochloromethane
14.026	3599870	VV	0.066	1	38.856	1,2-Dibromoethane (EDB)
14.826	5649148	VV	0.052	1	40.613	Chlorobenzene
14.963	1.11363E+007	VV	0.077	1	34.157	1,1,1,2-Tetrachloroethane
16.204	3146790	PV	0.052	1	41.117	Bromoform
16.686	2247653	VV	0.053	1	101.785	1,4-Dichlorobutane (surr)
17.023	9021513	VV	0.066	1	125.910	Brbenzene;123triclprop;1122tet
17.339	6094226	VV	0.056	1	40.558	2-Chlorotoluene
17.530	6268376	VV	0.052	1	40.607	4-Chlorotoluene
18.620	8755417	VV	0.061	1	37.132	1,3-Dichlorobenzene
18.783	9495308	VV	0.062	1	37.006	1,4-Dichlorobenzene
19.424	8588460	VV	0.050	1	38.810	1,2-Dichlorobenzene
20.818	1321492	VV	0.058	1	43.932	1,2-Dibromo-3-chloropropane
22.260	9652268	PV	0.065	1	37.689	1,2,4-Trichlorobenzene
22.571	1.11743E+007	VV	0.075	1	35.004	Hexachlorobutadiene
23.123	8900308	VV	0.053	1	39.023	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\028F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 28
ample Name	: v40	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 09:08 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 03 Aug 05 10:19 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

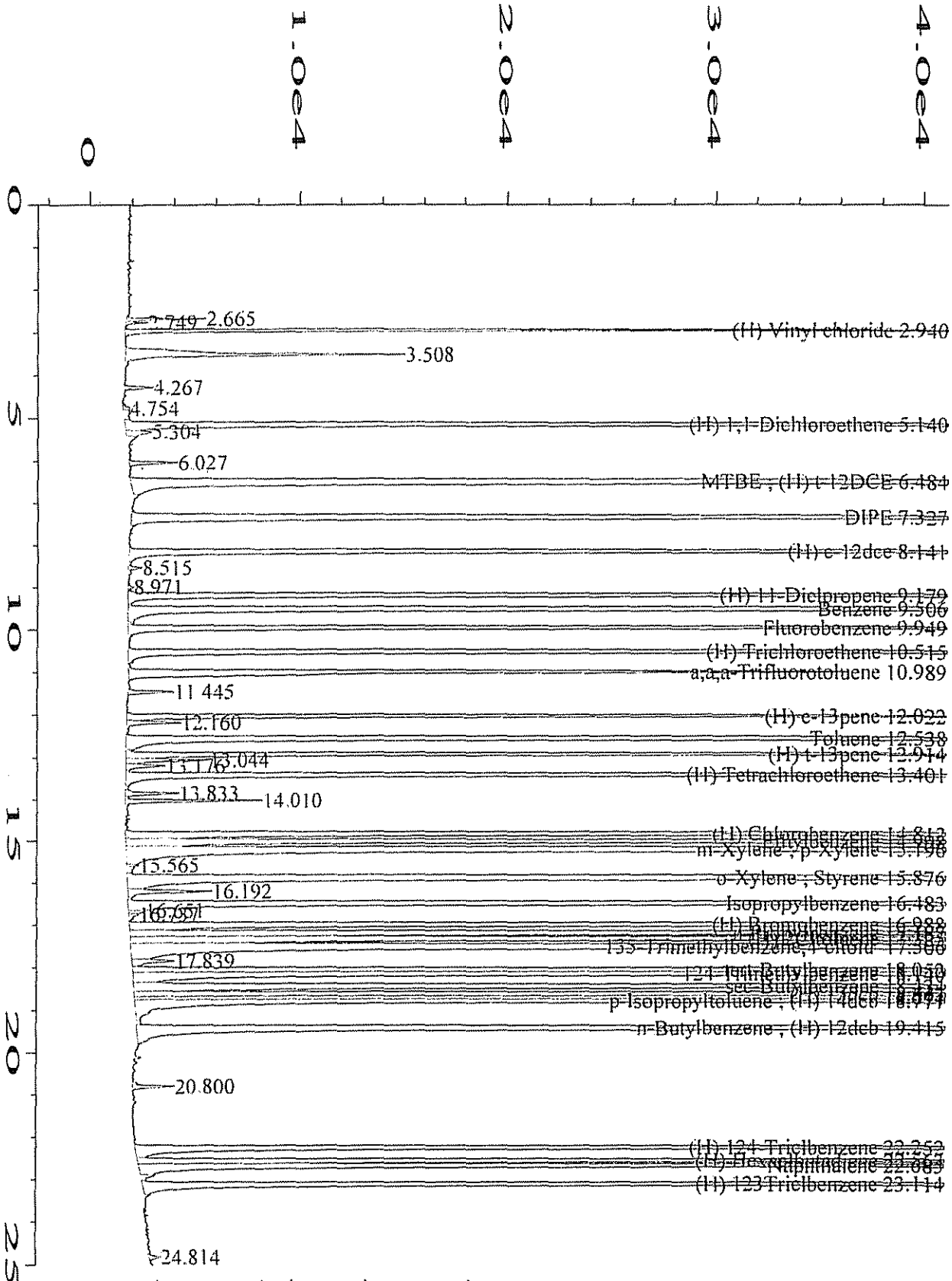
ta File Name : C:\HPCHEM\1\DATA\080205\028R0101.D
erator : MJC
strument : GC1
mple Name : v40
n Time Bar Code:
quired on : 02 Aug 05 09:08 PM
port Created on: 03 Aug 05 10:19 AM
st Recalib on : 03 AUG 05 09:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\080205\028R0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.940	150942	PV	0.033	1	42.760	(H) Vinyl chloride
5.140	363341	VV	0.062	1	41.422	(H) 1,1-Dichloroethene
6.484	1006321	BV	0.060	1	81.910	MTBE ; (H) t-12DCE
7.327	395773	VV	0.079	1	40.674	DIPE
8.141	399341	PV	0.056	1	41.010	(H) c-12dce
9.179	369618	PV	0.059	1	40.741	(H) 11-Diclpropene
9.506	907335	VV	0.059	1	40.564	Benzene
9.949	261218	VV	0.058	1-I	40.000	Fluorobenzene
10.515	511960	VV	0.056	1	40.247	(H) Trichloroethene
10.989	163989	VV	0.070	1	117.417	a,a,a-Trifluorotoluene
12.022	172650	PV	0.052	1	40.993	(H) c-13pene
12.538	910552	VV	0.055	1	40.377	Toluene
12.914	203999	VV	0.049	1	41.167	(H) t-13pene
13.401	411256	VV	0.056	1	40.536	(H) Tetrachloroethene
14.812	935713	VV	0.052	1	40.466	(H) Chlorobenzene
14.998	890282	VV	0.054	1	40.549	Ethylbenzene
15.196	2168549	VV	0.055	1	81.444	m-Xylene ; p-Xylene
15.876	1862657	VV	0.066	1	81.395	o-Xylene ; Styrene
16.483	722494	VV	0.057	1	40.502	Isopropylbenzene
16.988	961571	PV	0.051	1	40.722	(H) Bromobenzene
17.187	859428	VV	0.054	1	40.739	n-Propylbenzene
17.325	954820	VV	0.054	1	40.620	(H) 2Cltoluene
17.506	2328838	VV	0.058	1	81.415	135-Trimethylbenzene;4-cltolu
18.052	674448	VV	0.056	1	40.605	tert-Butylbenzene
18.140	1041876	VV	0.054	1	40.699	124-Trimethylbenzene
18.434	737731	VV	0.058	1	40.683	sec-Butylbenzene
18.613	961331	VV	0.050	1	40.798	(H) 13dcb
18.771	1015595	VV	0.051	1	81.799	p-Isopropyltoluene ; (H) 14dcb
19.415	1483192	VV	0.053	1	81.512	n-Butylbenzene ; (H) 12dcb
22.252	562596	PV	0.052	1	40.715	(H) 124-Triclbenzene
22.563	355410	VV	0.058	1	39.654	(H) Hexaclbutadiene
22.685	535001	VV	0.051	1	41.295	Naphthalene
23.114	508057	VV	0.052	1	40.680	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



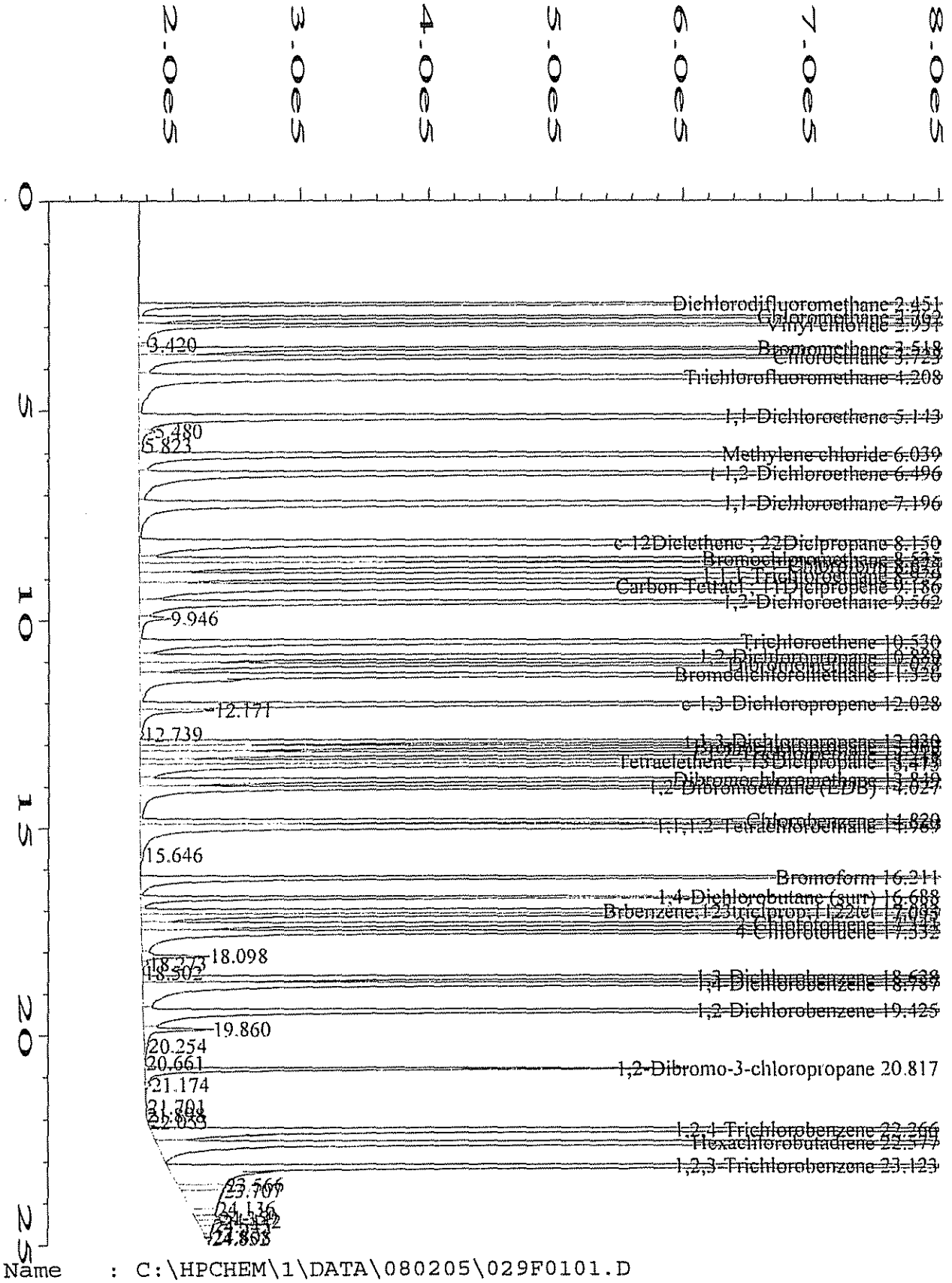
ata File Name	: C:\HPCHEM\1\DATA\080205\028R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 28
ample Name	: v40	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 09:08 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:19 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ta File Name	: C:\HPCHEM\1\DATA\080205\029F0101.D		
erator	: MJC	Page Number	: 1
strument	: GC1	Vial Number	: 29
mple Name	: v50	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 02 Aug 05 09:39 PM	Instrument Method:	8021_HAL.MTH
port Created on:	03 Aug 05 10:19 AM	Analysis Method	: 8021_HAL.MTH
st Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	: 40

g. 1 in C:\HPCHEM\1\DATA\080205\029F0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.451	5804837	PV	0.039	1	39.478	Dichlorodifluoromethane
2.762	9412417	VV	0.030	1	44.989	Chloromethane
2.951	5990755	VV	0.045	1	40.579	Vinyl chloride
3.518	3738048	VV	0.042	1	47.677	Bromomethane
3.723	7088232	VV	0.052	1	46.810	Chloroethane
4.208	9787263	VV	0.077	1	46.769	Trichlorofluoromethane
5.143	1.14427E+007	VV	0.071	1	42.800	1,1-Dichloroethene
6.039	1.23827E+007	VV	0.053	1	41.378	Methylene chloride
6.496	1.17707E+007	VV	0.055	1	42.331	t-1,2-Dichloroethene
7.196	1.20937E+007	VV	0.067	1	43.862	1,1-Dichloroethane
8.150	2.0361E+007	VV	0.065	1	86.969	c-12Diclethene ; 22Diclpropane
8.535	8511587	VV	0.054	1	51.381	Bromochloromethane
8.675	1.40191E+007	VV	0.061	1	40.812	Chloroform
8.929	1.35028E+007	VV	0.071	1	42.954	1,1,1-Trichloroethane
9.186	2.47861E+007	VV	0.067	1	93.454	Carbon Tetracl ; 11Diclpropene
9.562	9315345	VV	0.054	1	45.822	1,2-Dichloroethane
10.530	1.41356E+007	VV	0.054	1	42.539	Trichloroethene
10.889	1.09614E+007	VV	0.063	1	45.661	1,2-Dichloropropane
11.078	4972188	VV	0.055	1	47.038	Dibromomethane
11.326	1.00718E+007	VV	0.058	1	47.091	Bromodichloromethane
12.028	8913929	VV	0.056	1	46.928	c-1,3-Dichloropropene
12.930	7796713	VV	0.048	1	51.495	t-1,3-Dichloropropene
13.063	3093540	VV	0.060	1-I	40.000	Bromochloropropane
13.218	9318136	VV	0.057	1	47.965	1,1,2-Trichloroethane
13.417	1.4144E+007	VV	0.051	1	77.667	Tetraclethene ; 13Diclpropane
13.849	6916483	VV	0.056	1	50.100	Dibromochloromethane
14.027	4422763	VV	0.062	1	47.434	1,2-Dibromoethane (EDB)
14.829	7290670	VV	0.051	1	52.139	Chlorobenzene
14.969	1.38132E+007	VV	0.061	1	42.169	1,1,1,2-Tetrachloroethane
16.211	3838267	PV	0.058	1	49.758	Bromoform
16.688	2223705	VV	0.054	1	100.108	1,4-Dichlorobutane (surr)
17.033	1.06762E+007	VV	0.070	1	148.264	Brbenzene;123triclprop;1122tet
17.341	7807910	VV	0.055	1	51.703	2-Chlorotoluene
17.532	8015154	VV	0.052	1	51.663	4-Chlorotoluene
18.628	1.01208E+007	VV	0.062	1	42.677	1,3-Dichlorobenzene
18.787	1.10943E+007	VV	0.053	1	43.003	1,4-Dichlorobenzene
19.425	9797911	VV	0.068	1	44.025	1,2-Dichlorobenzene
20.817	1637032	VV	0.058	1	54.031	1,2-Dibromo-3-chloropropane
22.266	1.14521E+007	PV	0.061	1	44.448	1,2,4-Trichlorobenzene
22.577	1.44521E+007	VV	0.058	1	45.040	Hexachlorobutadiene
23.123	1.0716E+007	PV	0.063	1	46.710	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\080205\029F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 29
ample Name	: v50	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 02 Aug 05 09:39 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	03 Aug 05 10:19 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

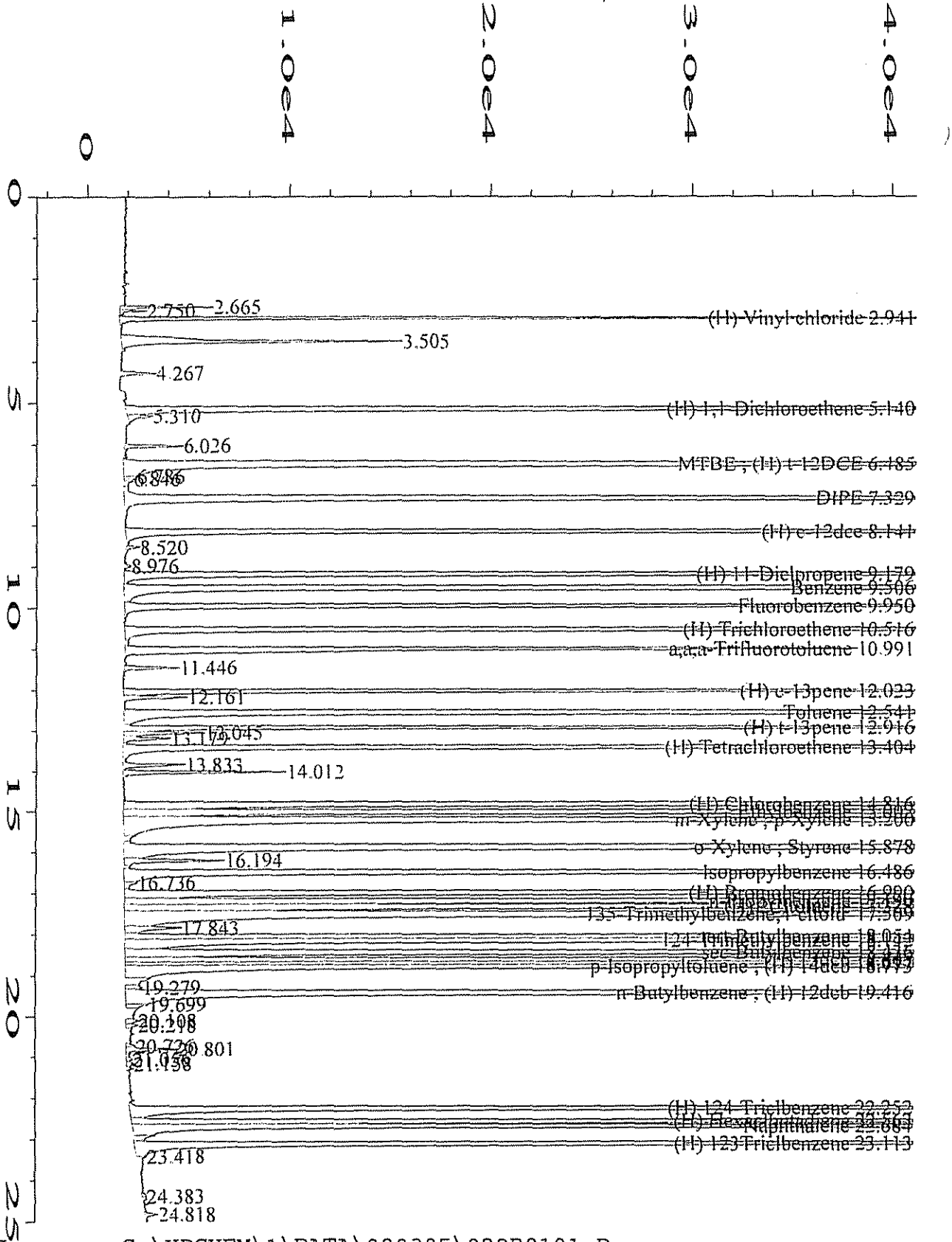
ta File Name : C:\HPCHEM\1\DATA\080205\029R0101.D
erator : MJC
strument : GC1
mple Name : v50
in Time Bar Code:
quired on : 02 Aug 05 09:39 PM
port Created on: 03 Aug 05 10:19 AM
ist Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\080205\029R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.941	176648	PV	0.033	1	47.673	(H) Vinyl chloride
5.140	451399	VV	0.062	1	49.002	(H) 1,1-Dichloroethene
6.485	1272555	PV	0.059	1	98.612	MTBE ; (H) t-12DCE
7.329	505804	VV	0.081	1	49.497	DIPE
8.141	504810	PV	0.056	1	49.352	(H) c-12dce
9.179	471770	VV	0.059	1	49.500	(H) 11-Diclpropene
9.506	1166562	VV	0.059	1	49.635	Benzene
9.950	274418	VV	0.059	1-I	40.000	Fluorobenzene
10.516	668304	PV	0.056	1	49.987	(H) Trichloroethene
10.991	176957	VV	0.071	1	120.608	a,a,a-Trifluorotoluene
12.023	217898	PV	0.052	1	49.267	(H) c-13pene
12.541	1180228	BV	0.055	1	49.798	Toluene
12.916	255922	VV	0.049	1	49.162	(H) t-13pene
13.404	530081	VV	0.056	1	49.703	(H) Tetrachloroethene
14.816	1208911	PV	0.052	1	49.744	(H) Chlorobenzene
15.002	1147313	VV	0.054	1	49.702	Ethylbenzene
15.200	2772042	VV	0.055	1	99.047	m-Xylene ; p-Xylene
15.878	2383399	VV	0.066	1	99.084	o-Xylene ; Styrene
16.486	933591	VV	0.057	1	49.779	Isopropylbenzene
16.990	1229863	VV	0.051	1	49.548	(H) Bromobenzene
17.190	1099344	VV	0.054	1	49.574	n-Propylbenzene
17.328	1226586	VV	0.053	1	49.638	(H) 2Cltoluene
17.509	2987092	VV	0.060	1	99.297	135-Trimethylbenzene;4-cltolu
18.054	868736	VV	0.057	1	49.731	tert-Butylbenzene
18.142	1339974	VV	0.054	1	49.755	124-Trimethylbenzene
18.436	948180	VV	0.059	1	49.709	sec-Butylbenzene
18.615	1226983	VV	0.050	1	49.524	(H) 13dcb
18.773	1290641	VV	0.051	1	98.871	p-Isopropyltoluene ; (H) 14dcb
19.416	1903295	VV	0.053	1	99.412	n-Butylbenzene ; (H) 12dcb
22.252	724293	PV	0.052	1	49.798	(H) 124-Triclbenzene
22.563	480458	VV	0.058	1	50.867	(H) Hexaclbutadiene
22.684	671114	VV	0.052	1	49.233	Naphthalene
23.113	655379	VV	0.052	1	49.839	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\029R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 29
Sample Name	: v50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 09:39 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:19 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 CVS Raw Data

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc1
Filename : 081005\005f0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Bromodichloromethane	9.7	96.6	76.0	124.0	97	42	172
Bromoform	8.1	81.4	73.5	126.5	81	13	159
Bromomethane	6.7	66.7	58.5	141.5	67	D	144
Carbon tetrachloride	10.5	104.9	68.5	131.5	105	43	143
Chlorobenzene	9.9	99.1	72.0	128.0	99	38	150
Chloroethane	9.4	94.4	77.0	123.0	94	46	137
Chloroform	9.4	94.0	75.0	125.0	94	49	133
Chloromethane	10.5	105.0	59.5	140.5	105	D	193
Dibromochloromethane	9.0	89.9	65.5	134.5	90	24	191
• 1,2-Dibromoethane	8.6	86.4	13.6	186.4	86	D	206
1,2-Dichlorobenzene	9.9	98.9	70.0	130.0	99	D	208
1,3-Dichlorobenzene	10.2	102.0	49.5	150.5	102	7	187
1,4-Dichlorobenzene	10.1	101.3	69.5	130.5	101	42	143
1,1-Dichloroethane	9.7	97.5	84.0	116.0	97	47	132
1,2-Dichloroethane	9.7	96.9	71.5	128.5	97	51	147
1,1-Dichloroethene	9.6	96.2	63.0	137.0	96	28	167
• cis-1,2-Dichloroethene	9.7	97.2	34.4	180.6	97	19	181
trans-1,2-Dichloroethene	9.9	98.9	64.0	136.0	99	38	155
1,2-Dichloropropane	10.0	99.6	74.0	126.0	100	44	156
cis-1,3-Dichloropropene	9.9	99.2	64.0	136.0	99	22	178
trans-1,3-Dichloropropene	9.4	93.9	64.0	136.0	94	22	178
Methylene Chloride	9.5	94.5	77.5	122.5	95	25	162
1,1,2,2-Tertrachloroethane	10.0	99.8	49.0	151.0	100	8	184
Tetrachloroethane	9.7	97.4	70.0	130.0	97	26	162
1,1,1-Trichloroethane	10.1	100.5	71.0	129.0	101	41	138
1,1,2-Trichloroethane	9.6	95.8	78.5	121.5	96	39	136
Trichloroethene	9.3	93.5	77.0	123.0	93	35	146
Trichlorofluromethane	9.0	90.1	66.5	133.5	90	21	156
Vinyl Chloride	9.4	94.5	68.5	131.5	94	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc1
Filename : 081005\005r0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Benzene	9.3	92.6	77.0	123.0	93	39	150
Chlorobenzene	9.4	94.2	80.5	119.5	94	55	135
1,2-Dichlorobenzene	9.2	91.5	68.0	132.0	92	37	154
1,3-Dichlorobenzene	9.4	93.6	72.5	127.5	94	50	141
1,4-Dichlorobenzene	9.4	94.4	69.5	130.5	94	42	143
• Diisopropyl ether	8.7	87.1	43.1	156.9	87	30	170
Ethylbenzene	9.5	94.9	63.0	137.0	95	32	160
• MTBE	9.2	92.2	46.8	153.2	92	35	165
Toluene	9.5	95.0	77.5	127.0	95	46	148
• m,p-Xylene	19.2	96.2	11.2	188.8	96	D	239
• o-Xylene	9.5	95.3	47.6	152.4	95	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by:_____

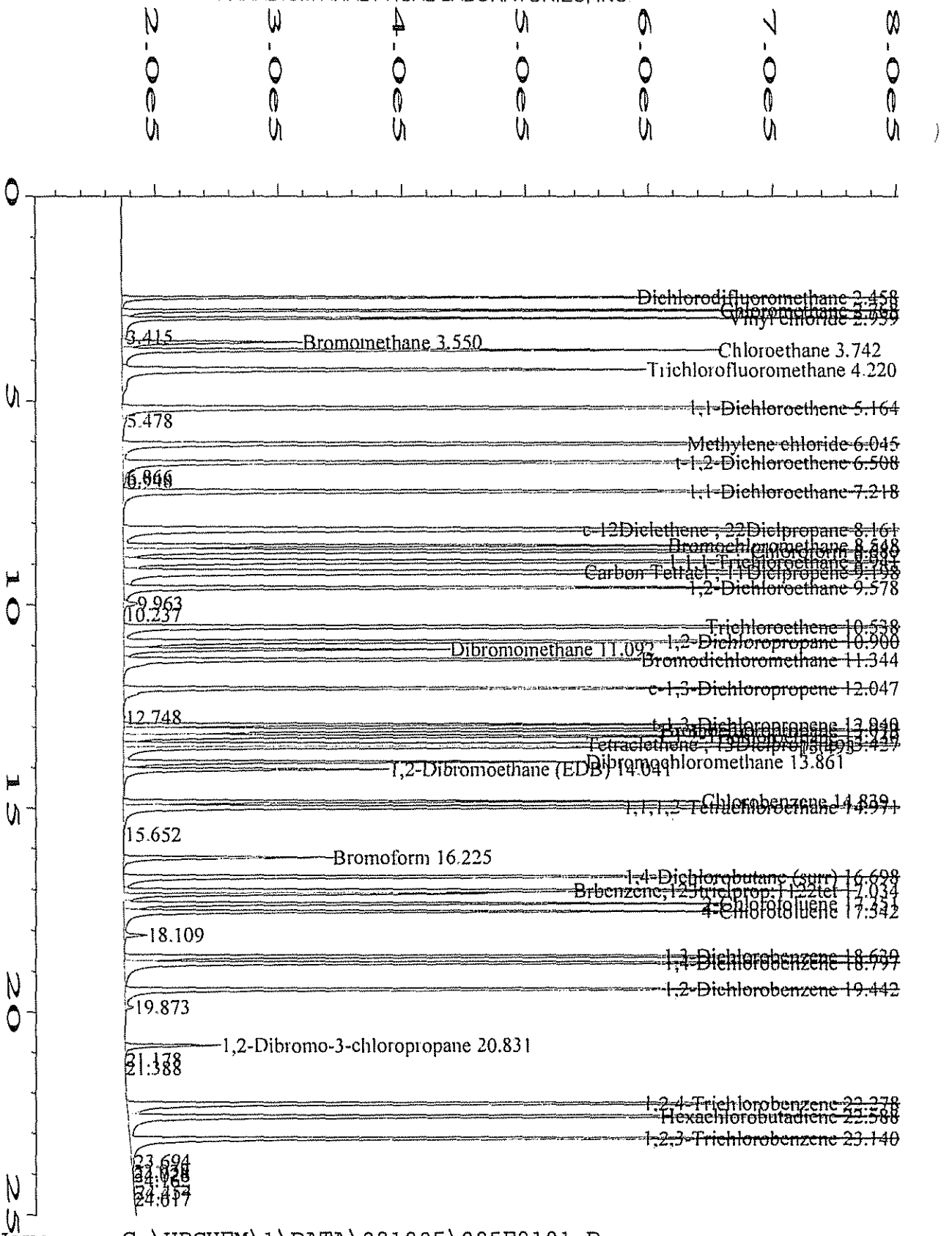
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\005F0101.D
perator : MJC
nstrument : GC1
ample Name : qchk010
un Time Bar Code:
cquired on : 10 Aug 05 11:04 AM
eport Created on: 11 Aug 05 01:47 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\005F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.458	1567255	BV	0.031	1	9.527	Dichlorodifluoromethane
2.768	2545186	VV	0.027	1	10.499	Chloromethane
2.959	1613622	VV	0.037	1	9.448	Vinyl chloride
3.550	561316	VV	0.054	1	6.666	Bromomethane
3.742	1646712	VV	0.052	1	9.439	Chloroethane
4.220	2170281	VV	0.078	1	9.006	Trichlorofluoromethane
5.164	2895695	VV	0.064	1	9.616	1,1-Dichloroethene
6.045	3217608	VV	0.060	1	9.451	Methylene chloride
6.508	3091219	VV	0.056	1	9.893	t-1,2-Dichloroethene
7.218	3023494	VV	0.066	1	9.748	1,1-Dichloroethane
8.161	5186918	PV	0.061	1	19.446	c-12Diclethene ; 22Diclpropane
8.548	1760215	VV	0.054	1	9.524	Bromochloromethane
8.680	3648922	VV	0.071	1	9.399	Chloroform
8.941	3568654	VV	0.074	1	10.051	1,1,1-Trichloroethane
9.198	6472570	VV	0.065	1	20.984	Carbon Tetracl ; 11Diclpropene
9.578	2230388	VV	0.057	1	9.685	1,2-Dichloroethane
10.538	3463604	BV	0.058	1	9.346	Trichloroethene
10.900	2712493	VV	0.063	1	9.957	1,2-Dichloropropane
11.092	987823	VV	0.054	1	8.601	Dibromomethane
11.344	2323669	VV	0.060	1	9.657	Bromodichloromethane
12.047	2143618	PV	0.055	1	9.915	c-1,3-Dichloropropene
12.940	1587148	VV	0.049	1	9.387	t-1,3-Dichloropropene
13.073	3432255	VV	0.061	1-I	40.000	Bromochloropropane
13.230	2196872	VV	0.058	1	9.582	1,1,2-Trichloroethane
13.427	4076051	VV	0.059	1	19.473	Tetraclethene ; 13Diclpropane
13.861	1363927	VV	0.057	1	8.987	Dibromochloromethane
14.041	885039	VV	0.062	1	8.640	1,2-Dibromoethane (EDB)
14.839	1552279	VV	0.052	1	9.911	Chlorobenzene
14.971	3524789	VV	0.058	1	9.531	1,1,1,2-Tetrachloroethane
16.225	663084	PV	0.055	1	8.143	Bromoform
16.698	2477933	PV	0.054	1	100.544	1,4-Dichlorobutane (surr)
17.034	2441319	VV	0.064	1	29.941	Brbenzene;123triclprop;1122tet
17.351	1706084	VV	0.055	1	10.047	2-Chlorotoluene
17.542	1782180	VV	0.054	1	10.219	4-Chlorotoluene
18.639	2692464	PV	0.052	1	10.200	1,3-Dichlorobenzene
18.797	2927318	VV	0.054	1	10.134	1,4-Dichlorobenzene
19.442	2456556	VV	0.054	1	9.887	1,2-Dichlorobenzene
20.831	304921	PV	0.060	1	9.328	1,2-Dibromo-3-chloropropane
22.278	2847495	PV	0.056	1	9.983	1,2,4-Trichlorobenzene
22.588	3281666	VV	0.062	1	9.125	Hexachlorobutadiene
23.140	2534287	VV	0.057	1	9.947	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\005F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 5
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 10 Aug 05 11:04 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 11 Aug 05 01:47 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

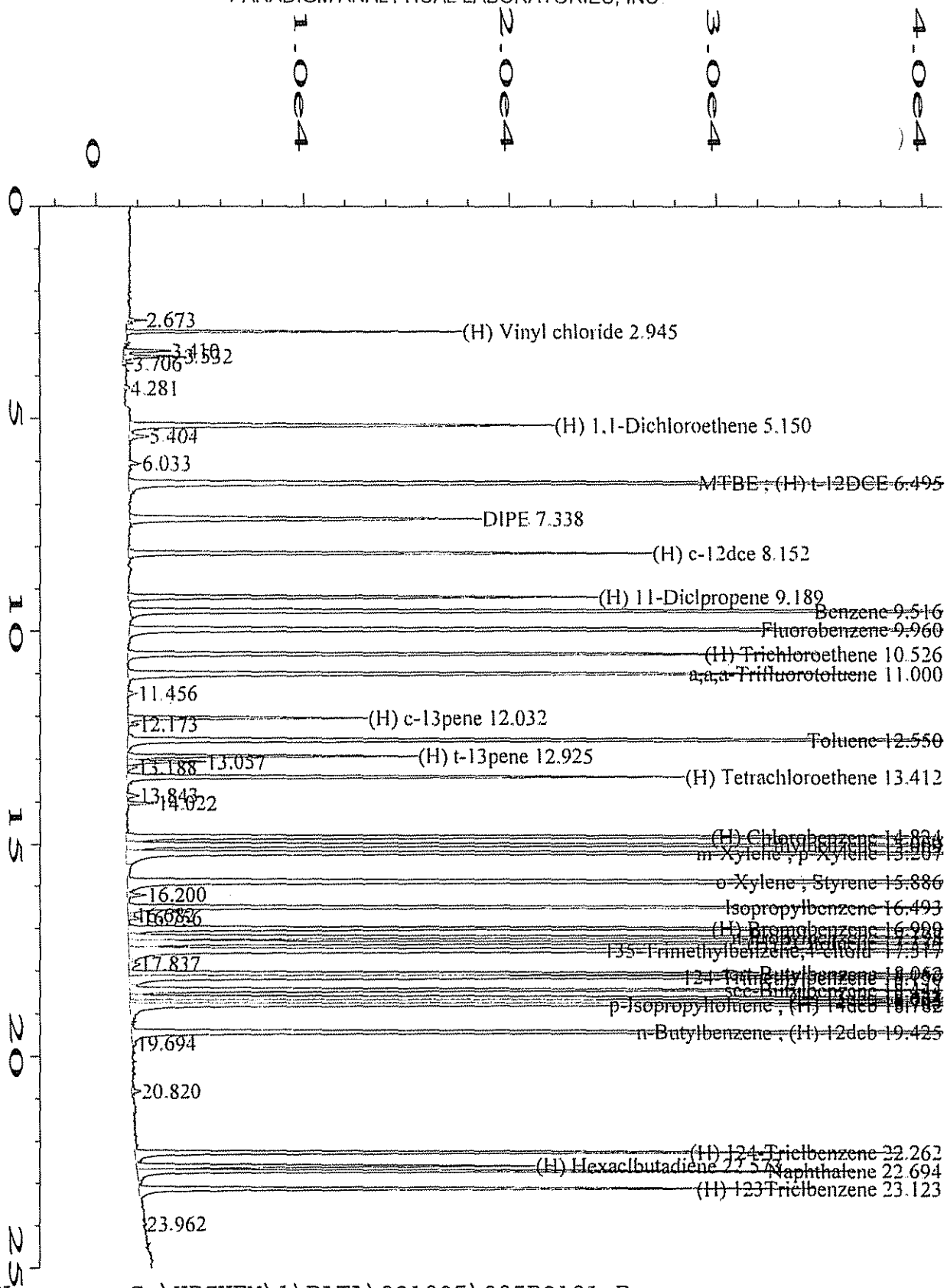
Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\081005\005R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 5
ample Name	: qchk010	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Aug 05 11:04 AM	Instrument Method:	8021_HAL.MTH
eport Created on:	11 Aug 05 01:47 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

ig. 2 in C:\HPCHEM\1\DATA\081005\005R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.945	35711	VV	0.033	1	9.578	(H) Vinyl chloride
5.150	82932	VV	0.062	1	9.117	(H) 1,1-Dichloroethene
6.495	233725	VV	0.059	1	18.433	MTBE ; (H) t-12DCE
7.338	87793	VV	0.079	1	8.712	DIPE
8.152	91731	PV	0.056	1	9.136	(H) c-12dce
9.189	87064	PV	0.058	1	9.324	(H) 11-Diclpropene
9.516	212288	PV	0.058	1	9.256	Benzene
9.960	268831	BV	0.059	1-I	40.000	Fluorobenzene
10.526	121005	PV	0.056	1	9.317	(H) Trichloroethene
11.000	151307	VV	0.065	1	105.269	a,a,a-Trifluorotoluene
12.032	39533	PV	0.052	1	9.047	(H) c-13pene
12.550	218980	PV	0.056	1	9.500	Toluene
12.925	45155	VV	0.050	1	8.852	(H) t-13pene
13.412	98204	VV	0.057	1	9.514	(H) Tetrachloroethene
14.824	222293	VV	0.052	1	9.418	(H) Chlorobenzene
15.009	211374	VV	0.054	1	9.491	Ethylbenzene
15.207	522028	VV	0.055	1	19.243	m-Xylene ; p-Xylene
15.886	444254	VV	0.067	1	19.060	o-Xylene ; Styrene
16.493	171690	VV	0.057	1	9.483	Isopropylbenzene
16.999	220631	VV	0.051	1	9.187	(H) Bromobenzene
17.198	204921	VV	0.054	1	9.549	n-Propylbenzene
17.335	227827	VV	0.054	1	9.532	(H) 2Cltoluene
17.517	548357	VV	0.059	1	19.002	135-Trimethylbenzene;4-cltolu
18.062	155880	VV	0.056	1	9.306	tert-Butylbenzene
18.150	244761	VV	0.055	1	9.535	124-Trimethylbenzene
18.444	168930	VV	0.058	1	9.275	sec-Butylbenzene
18.623	223192	VV	0.051	1	9.360	(H) 13dcb
18.782	237443	VV	0.051	1	18.880	p-Isopropyltoluene ; (H) 14dcb
19.425	332500	VV	0.053	1	18.307	n-Butylbenzene ; (H) 12dcb
22.262	126518	VV	0.052	1	9.237	(H) 124-Triclbenzene
22.573	71752	VV	0.058	1	8.229	(H) Hexaclbutadiene
22.694	119495	VV	0.052	1	9.271	Naphthalene
23.123	112058	VV	0.053	1	9.106	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\081005\005R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 5
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 11:04 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:48 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 QC, Blanks Raw Data

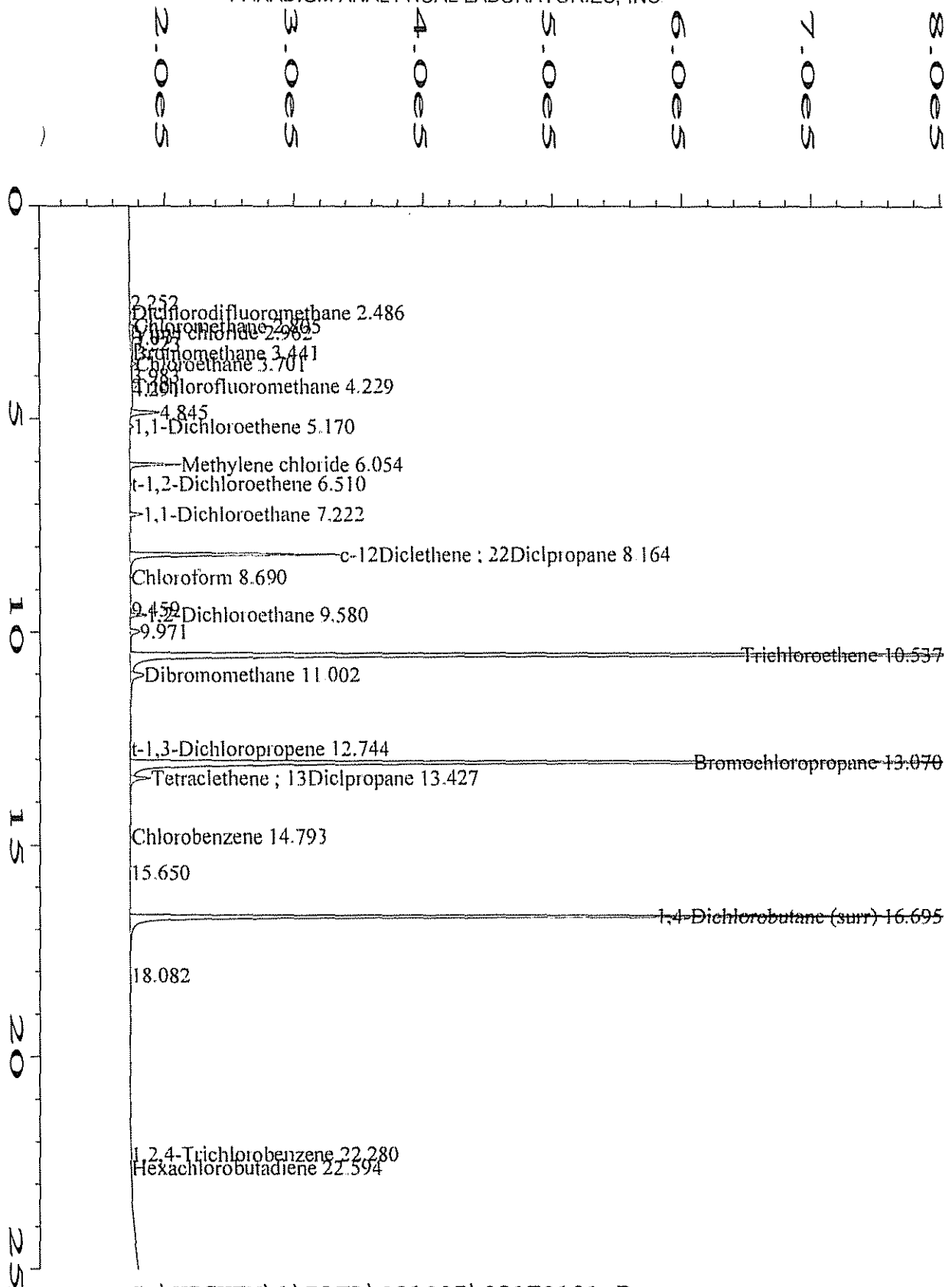
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\021F0101.D
perator : MJC
nstrument : GC1
ample Name : g537-162-22a x8
un Time Bar Code:
cquired on : 10 Aug 05 07:22 PM
eport Created on: 11 Aug 05 01:50 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\021F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.486	3494	BV	0.038	1	-0.0836	Dichlorodifluoromethane
2.805	25661	PV	0.112	1	-0.502	Chloromethane
2.962	14477	VV	0.069	1	-0.441	Vinyl chloride
3.441	15197	VV	0.124	1	0.423	Bromomethane
3.701	31232	VV	0.121	1	-0.268	Chloroethane
4.229	3583	VV	0.123	1	-0.411	Trichlorofluoromethane
5.170	12312	PB	0.067	1	-0.147	1,1-Dichloroethene
6.054	142199	BV	0.055	1	0.124	Methylene chloride
6.510	4412	VB	0.066	1	-0.152	t-1,2-Dichloroethene
7.222	41496	BB	0.064	1	-0.0361	1,1-Dichloroethane
8.164	629646	BV	0.055	1	1.802	c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.690	3195	VV	0.077	1	-0.221	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.580	46916	VV	0.057	1	-0.0472	1,2-Dichloroethane
10.537	4928844	PV	0.058	1	13.531	Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.002	99563	VV	0.137	1	1.076	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.744	3839	BV	0.068	1	-0.0520	t-1,3-Dichloropropene
13.070	3380523	VV	0.061	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.427	92839	VV	0.081	1	-0.474	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.793	4611	VV	0.077	1	-0.0868	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.695	2487507	PV	0.055	1	102.477	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.339	* not found *			1		2-Chlorotoluene
17.530	* not found *			1		4-Chlorotoluene
18.620	* not found *			1		1,3-Dichlorobenzene
18.783	* not found *			1		1,4-Dichlorobenzene
19.424	* not found *			1		1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.280	1391	BV	0.092	1	0.0328	1,2,4-Trichlorobenzene
22.594	1939	VV	0.077	1	-0.112	Hexachlorobutadiene
23.123	* not found *			1		1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\021F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: g537-162-22a x8	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 07:22 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:50 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\021R0101.D
perator : MJC
nstrument : GC1
ample Name : g537-162-22a x8
un Time Bar Code:
cquired on : 10 Aug 05 07:22 PM
eport Created on: 11 Aug 05 01:51 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

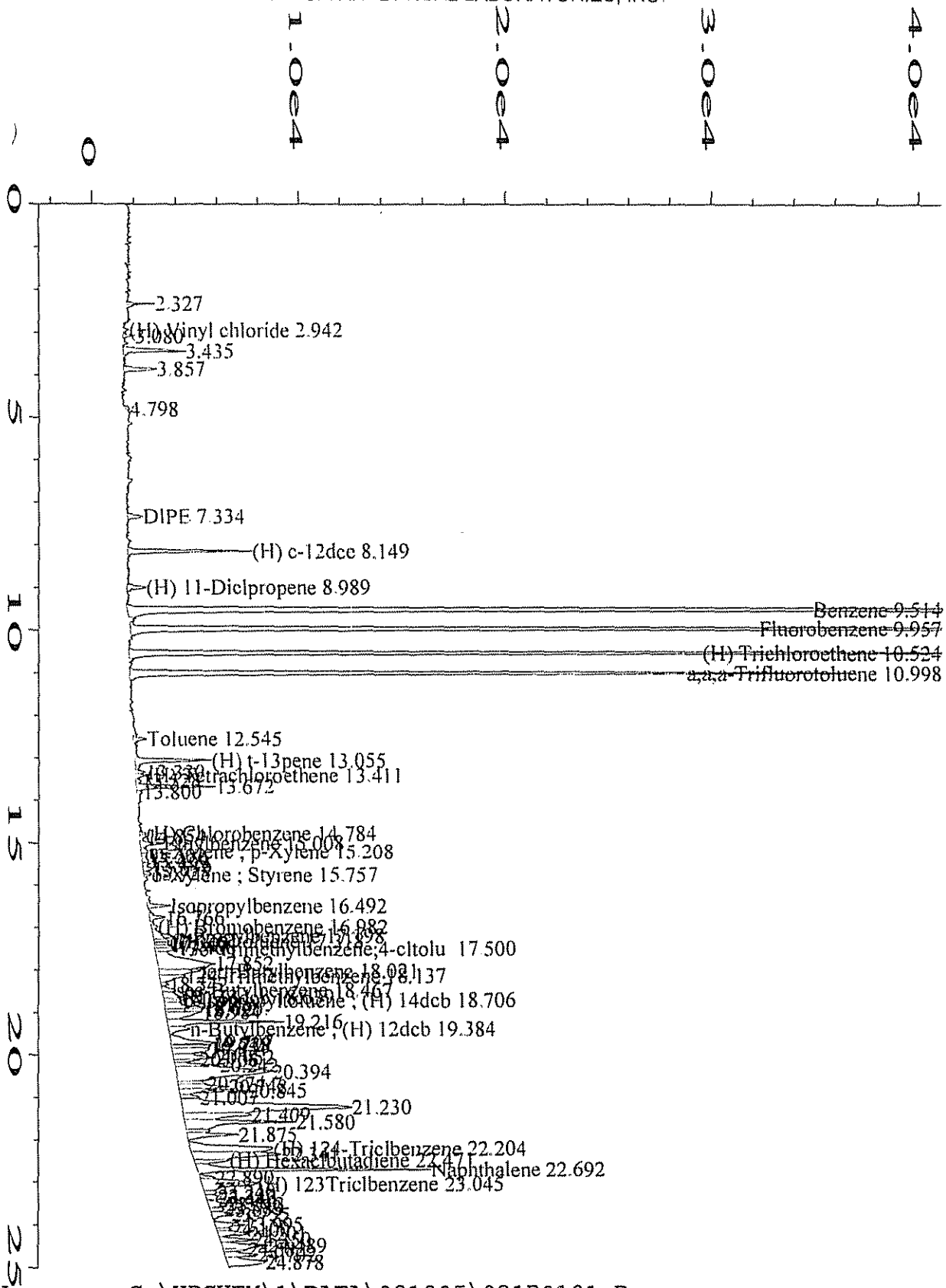
Page Number) : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\021R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.942	1169	VV	0.047	1	-0.000434	(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.485	* not found *			1		MTBE ; (H) t-12DCE
7.334	3837	VV	0.068	1	0.317	DIPE
8.149	22149	BV	0.055	1	2.209	(H) c-12dce
8.989	4792	VV	0.071	1	0.516	(H) 11-Diclpropene
9.514	361218	PV	0.060	1	15.860	Benzene
9.957	266431	VV	0.058	1-I	40.000	Fluorobenzene
10.524	172107	BV	0.057	1	13.329	(H) Trichloroethene
10.998	142642	BV	0.063	1	100.134	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.545	2581	VV	0.050	1	0.196	Toluene
13.055	15689	VV	0.061	1	3.101	(H) t-13pene
13.411	2306	VV	0.052	1	0.363	(H) Tetrachloroethene
14.784	1136	VV	0.043	1	0.148	(H) Chlorobenzene
15.008	5218	VV	0.067	1	0.409	Ethylbenzene
15.208	2226	VV	0.077	1	0.332	m-Xylene ; p-Xylene
15.757	1109	VV	0.045	1	0.303	o-Xylene ; Styrene
16.492	4237	VV	0.060	1	0.402	Isopropylbenzene
16.982	1734	VV	0.074	1	0.211	(H) Bromobenzene
17.198	7551	VV	0.090	1	0.493	n-Propylbenzene
17.318	2612	VV	0.043	1	0.257	(H) 2Cltoluene
17.500	4236	VV	0.049	1	0.629	135-Trimethylbenzene;4-cltolu
18.021	12656	VV	0.078	1	0.983	tert-Butylbenzene
18.137	8291	VV	0.084	1	0.632	124-Trimethylbenzene
18.467	3410	VV	0.063	1	0.470	sec-Butylbenzene
18.639	6296	VV	0.090	1	0.463	(H) 13dcb
18.706	2322	VV	0.041	1	0.567	p-Isopropyltoluene ; (H) 14dcb
19.384	6660	VV	0.081	1	1.060	n-Butylbenzene ; (H) 12dcb
22.204	34906	PV	0.106	1	2.885	(H) 124-Triclbenzene
22.471	6949	VV	0.068	1	1.309	(H) Hexaclbutadiene
22.692	44182	VV	0.058	1	3.706	Naphthalene
23.045	27306	VV	0.122	1	2.611	(H) 123Triclbenzene

'alibration table contains at least one peak with amt = 0

iot all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\021R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: g537-162-22a x8	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 07:22 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

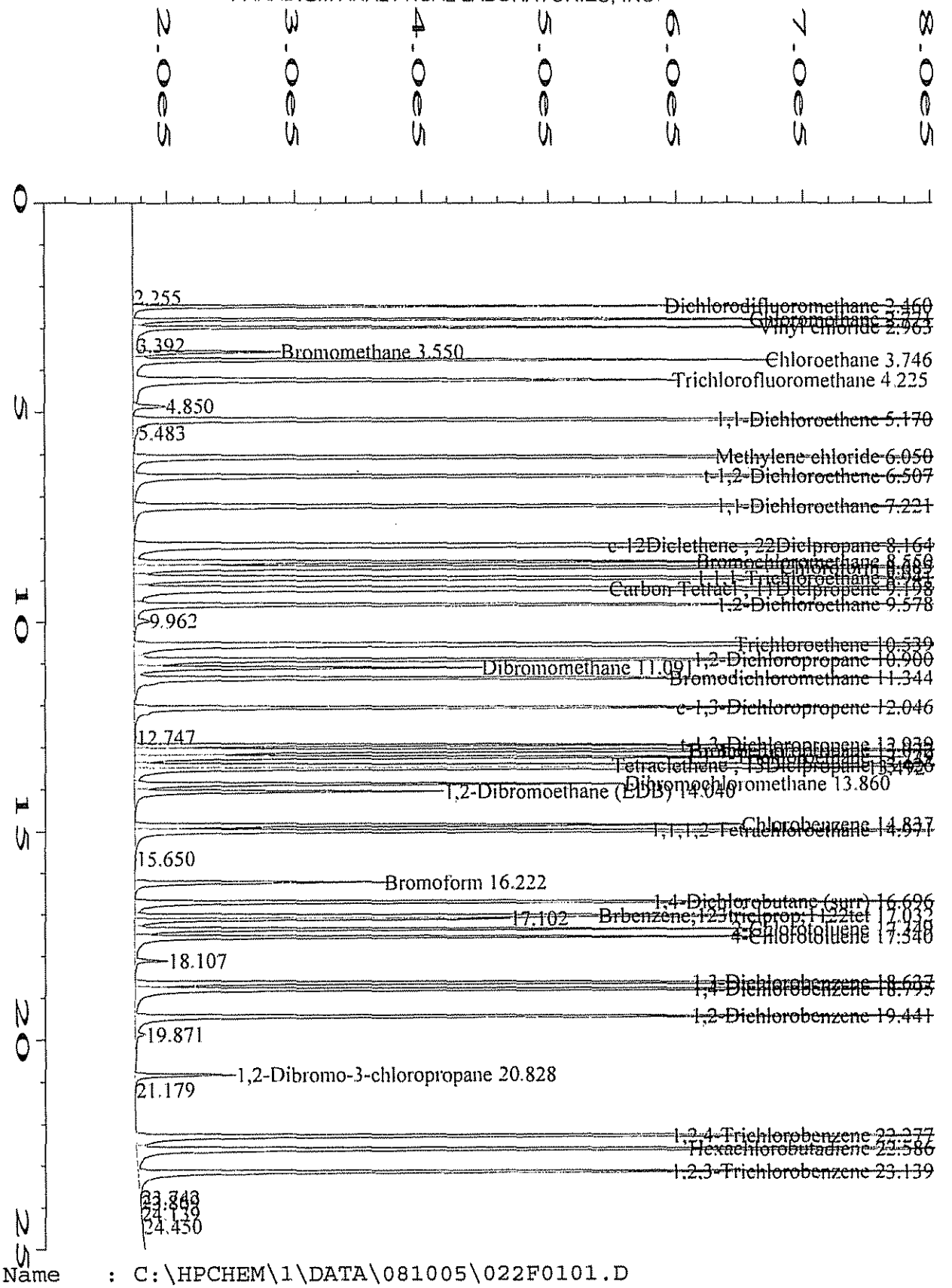
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\022F0101.D
perator : MJC
nstrument : GC1
ample Name : 148781 x8 ms
un Time Bar Code:
cquired on : 10 Aug 05 07:53 PM
eport Created on: 11 Aug 05 01:51 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\022F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.460	1548072	BV	0.032	1	9.313	Dichlorodifluoromethane
2.771	2459651	VV	0.029	1	10.017	Chloromethane
2.963	1600250	VV	0.036	1	9.266	Vinyl chloride
3.550	476754	VV	0.059	1	5.644	Bromomethane
3.746	1734611	VV	0.052	1	9.862	Chloroethane
4.225	2176491	VV	0.078	1	8.937	Trichlorofluoromethane
5.170	3030096	VV	0.064	1	9.968	1,1-Dichloroethene
6.050	3287609	VV	0.063	1	9.562	Methylene chloride
6.507	3128535	VV	0.051	1	9.912	t-1,2-Dichloroethene
7.221	3177054	VV	0.066	1	10.147	1,1-Dichloroethane
8.164	5776479	VV	0.061	1	21.508	c-12Diclethene ; 22Diclpropane
8.550	1911933	VV	0.054	1	10.245	Bromochloromethane
8.685	3736946	VV	0.062	1	9.532	Chloroform
8.941	3708516	VV	0.074	1	10.346	1,1,1-Trichloroethane
9.198	6722998	VV	0.064	1	21.613	Carbon Tetracl ; 11Diclpropene
9.578	2355617	VV	0.057	1	10.137	1,2-Dichloroethane
10.539	8851385	VV	0.056	1	23.739	Trichloroethene
10.900	2815279	VV	0.063	1	10.239	1,2-Dichloropropane
11.091	1039469	VV	0.056	1	8.951	Dibromomethane
11.344	2392849	VV	0.060	1	9.847	Bromodichloromethane
12.046	2205951	VV	0.055	1	10.107	c-1,3-Dichloropropene
12.939	1594104	VV	0.049	1	9.332	t-1,3-Dichloropropene
13.072	3467218	VV	0.062	1-I	40.000	Bromochloropropane
13.229	2243502	VV	0.058	1	9.695	1,1,2-Trichloroethane
13.426	4093980	VV	0.057	1	19.356	Tetraclethene ; 13Diclpropane
13.860	1394574	VV	0.057	1	9.095	Dibromochloromethane
14.040	956281	VV	0.129	1	9.234	1,2-Dibromoethane (EDB)
14.837	1572582	VV	0.051	1	9.940	Chlorobenzene
14.971	3548047	VV	0.068	1	9.497	1,1,1,2-Tetrachloroethane
16.222	740797	PV	0.053	1	8.956	Bromoform
16.696	2483093	VV	0.054	1	99.738	1,4-Dichlorobutane (surr)
17.032	2418103	VV	0.066	1	29.342	Brbenzene;123triclprop;1122tet
17.349	1712413	VV	0.055	1	9.982	2-Chlorotoluene
17.540	1786805	VV	0.054	1	10.141	4-Chlorotoluene
18.637	2667320	VV	0.052	1	10.002	1,3-Dichlorobenzene
18.795	3008163	VV	0.054	1	10.311	1,4-Dichlorobenzene
19.441	2497293	VV	0.054	1	9.950	1,2-Dichlorobenzene
20.828	307396	VV	0.059	1	9.310	1,2-Dibromo-3-chloropropane
22.277	2785551	PV	0.055	1	9.668	1,2,4-Trichlorobenzene
22.586	3252850	VV	0.062	1	8.951	Hexachlorobutadiene
23.139	2420239	VV	0.056	1	9.403	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\022F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: 148781 x8 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 07:53 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

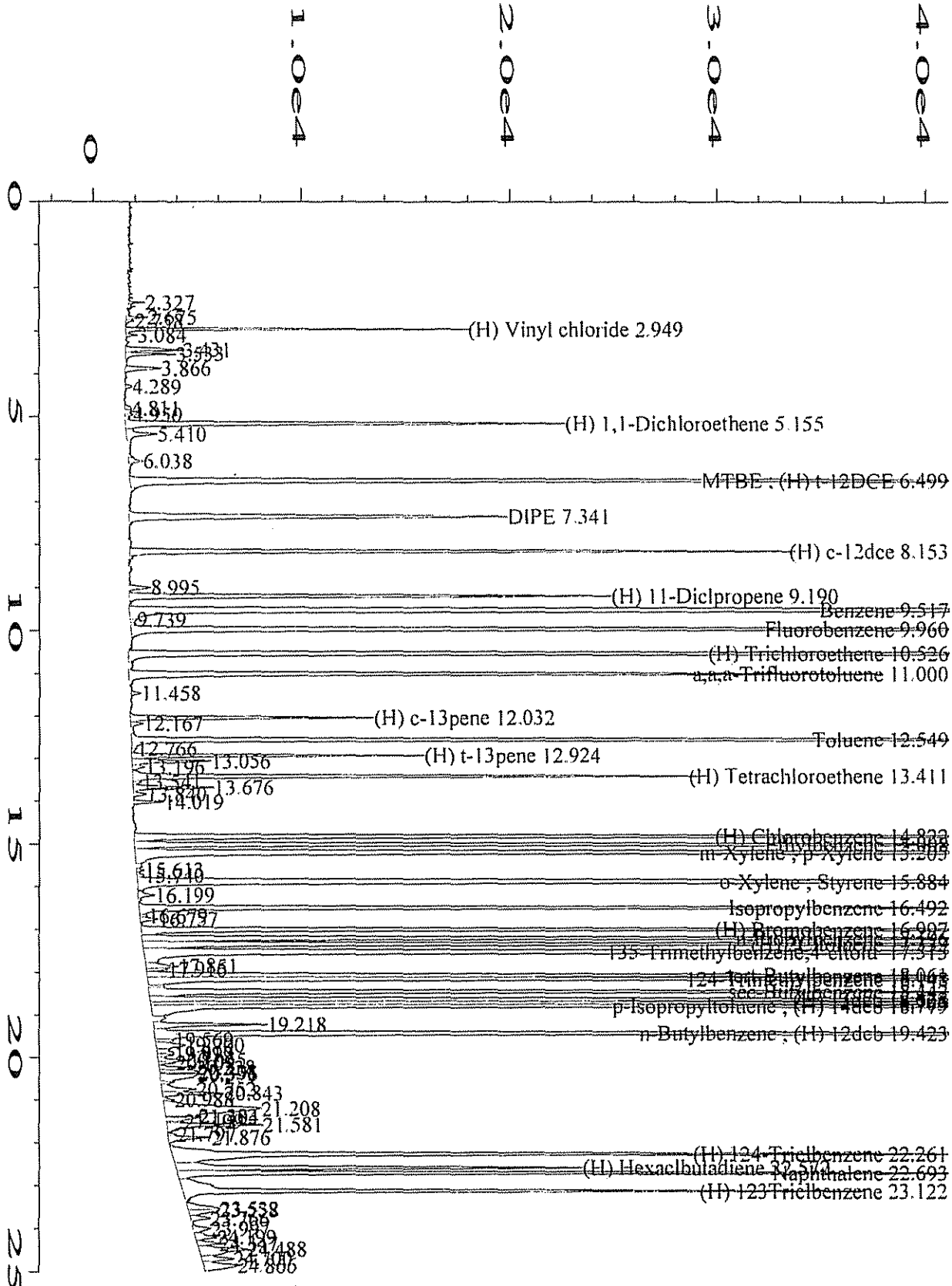
ata File Name : C:\HPCHEM\1\DATA\081005\022R0101.D
perator : MJC
nstrument : GC1
ample Name : 148781 x8 ms
un Time Bar Code:
cquired on : 10 Aug 05 07:53 PM
eport Created on: 11 Aug 05 01:51 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\022R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.949	36306	PV	0.034	1	9.591	(H) Vinyl chloride
5.155	87671	VV	0.064	1	9.496	(H) 1,1-Dichloroethene
6.499	235187	PV	0.059	1	18.267	MTBE ; (H) t-12DCE
7.341	94517	PV	0.080	1	9.242	DIPE
8.153	115369	PV	0.057	1	11.322	(H) c-12dce
9.190	88784	VV	0.060	1	9.364	(H) 11-Diclpropene
9.517	597138	PV	0.059	1	25.565	Benzene
9.960	272957	VV	0.058	1-I	40.000	Fluorobenzene
10.526	304463	PV	0.056	1	22.947	(H) Trichloroethene
11.000	153368	VV	0.065	1	105.090	a,a,a-Trifluorotoluene
12.032	40531	PV	0.053	1	9.136	(H) c-13pene
12.549	224939	VV	0.056	1	9.610	Toluene
12.924	45216	VV	0.050	1	8.730	(H) t-13pene
13.411	101090	VV	0.057	1	9.643	(H) Tetrachloroethene
14.822	224784	VV	0.052	1	9.380	(H) Chlorobenzene
15.008	215228	VV	0.054	1	9.517	Ethylbenzene
15.205	519189	VV	0.055	1	18.854	m-Xylene ; p-Xylene
15.884	440411	VV	0.066	1	18.615	o-Xylene ; Styrene
16.492	176691	VV	0.057	1	9.609	Isopropylbenzene
16.997	222733	VV	0.051	1	9.135	(H) Bromobenzene
17.196	206093	VV	0.054	1	9.460	n-Propylbenzene
17.333	229702	VV	0.054	1	9.466	(H) 2Cltoluene
17.515	550930	VV	0.059	1	18.807	135-Trimethylbenzene;4-cltolu
18.061	160535	VV	0.057	1	9.435	tert-Butylbenzene
18.148	245014	VV	0.054	1	9.405	124-Trimethylbenzene
18.442	174565	VV	0.059	1	9.434	sec-Butylbenzene
18.622	225531	VV	0.051	1	9.316	(H) 13dcb
18.779	242937	VV	0.052	1	19.022	p-Isopropyltoluene ; (H) 14dcb
19.423	332672	VV	0.053	1	18.049	n-Butylbenzene ; (H) 12dcb
22.261	161703	PV	0.061	1	11.514	(H) 124-Triclbenzene
22.572	79731	VV	0.061	1	8.953	(H) Hexaclbutadiene
22.693	152734	VV	0.052	1	11.569	Naphthalene
23.122	130871	VV	0.059	1	10.400	(H) 123Triclbenzene

:alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\081005\022R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: 148781 x8 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 07:53 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\023F0101.D
perator : MJC
nstrument : GC1
ample Name : 148781 x8 msd
un Time Bar Code:
cquired on : 10 Aug 05 08:25 PM
eport Created on: 11 Aug 05 01:51 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

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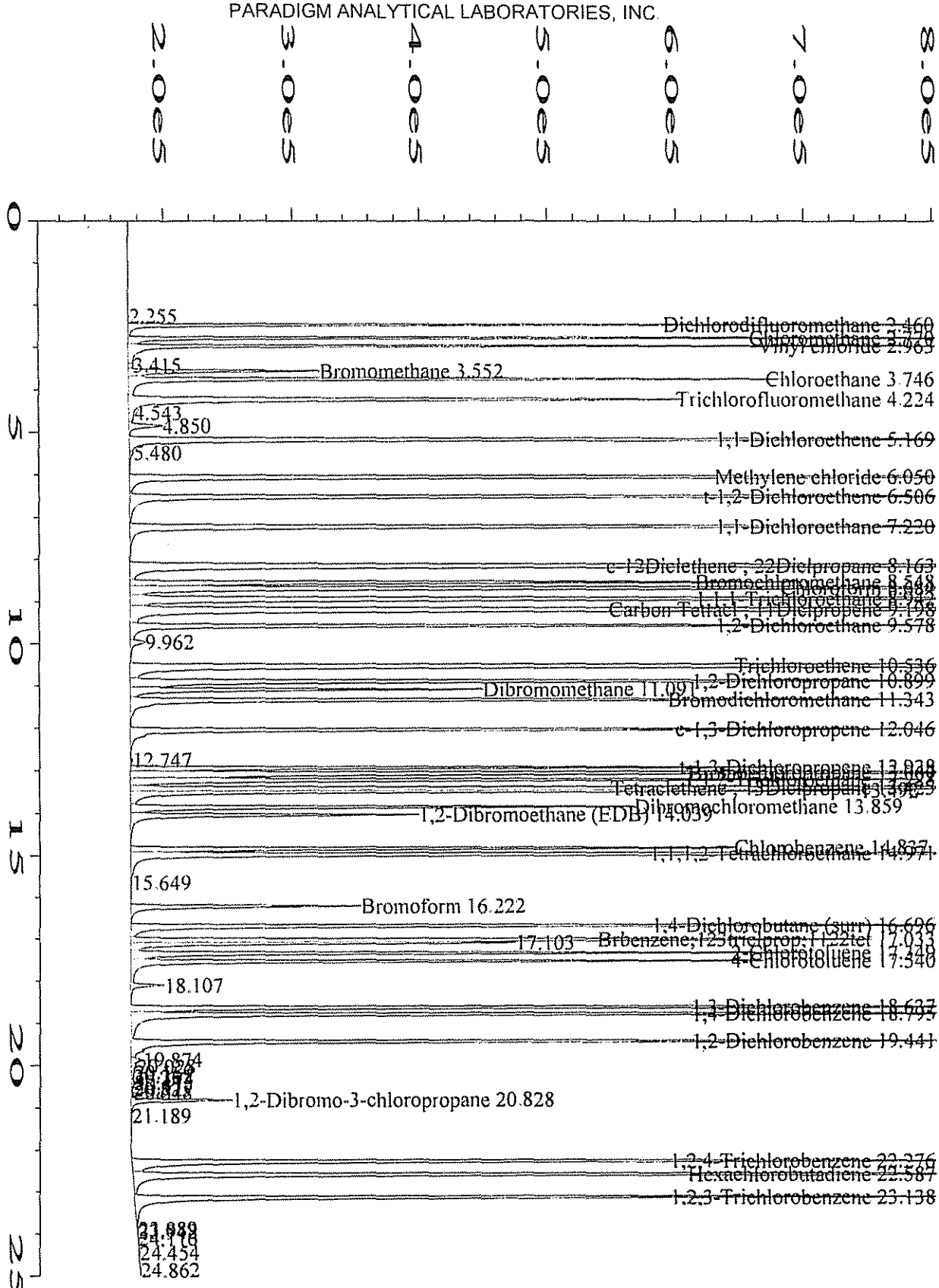
et Time	Area	Type	Width	Ref#	µg/L	Name
2.460	1573095	BV	0.031	1	9.463	Dichlorodifluoromethane
2.770	2458068	VV	0.028	1	10.007	Chloromethane
2.963	1629998	VV	0.037	1	9.445	Vinyl chloride
3.552	555531	VV	0.058	1	6.534	Bromomethane
3.746	1750882	VV	0.052	1	9.956	Chloroethane
4.224	2149011	VV	0.077	1	8.816	Trichlorofluoromethane
5.169	3072692	VV	0.064	1	10.108	1,1-Dichloroethene
6.050	3297562	VV	0.063	1	9.590	Methylene chloride
6.506	3111593	VV	0.051	1	9.854	t-1,2-Dichloroethene
7.220	3172179	VV	0.067	1	10.129	1,1-Dichloroethane
8.163	5805673	BV	0.062	1	21.614	c-12Diclethene ; 22Diclpropane
8.548	1822956	VV	0.054	1	9.763	Bromochloromethane
8.684	3756554	VV	0.068	1	9.580	Chloroform
8.942	3966852	VV	0.072	1	11.080	1,1,1-Trichloroethane
9.198	6614888	VV	0.064	1	21.238	Carbon Tetracl ; 11Diclpropene
9.578	2369677	VV	0.058	1	10.197	1,2-Dichloroethane
10.536	8831404	VV	0.057	1	23.679	Trichloroethene
10.899	2824679	VV	0.064	1	10.271	1,2-Dichloropropane
11.091	1036581	VV	0.055	1	8.924	Dibromomethane
11.343	2385468	VV	0.060	1	9.814	Bromodichloromethane
12.046	2217820	VV	0.054	1	10.160	c-1,3-Dichloropropene
12.938	1600777	VV	0.049	1	9.369	t-1,3-Dichloropropene
13.067	3468188	VV	0.056	1-I	40.000	Bromochloropropane
13.228	2282082	VV	0.058	1	9.872	1,1,2-Trichloroethane
13.425	3988791	VV	0.057	1	18.829	Tetraclethene ; 13Diclpropane
13.859	1420044	VV	0.056	1	9.256	Dibromochloromethane
14.039	923512	VV	0.131	1	8.919	1,2-Dibromoethane (EDB)
14.837	1584391	VV	0.052	1	10.012	Chlorobenzene
14.971	3584605	VV	0.069	1	9.594	1,1,1,2-Tetrachloroethane
16.222	699534	PV	0.055	1	8.481	Bromoform
16.696	2544640	VV	0.054	1	102.181	1,4-Dichlorobutane (surr)
17.033	2416787	VV	0.065	1	29.318	Brbenzene;123triclprop;1122tet
17.349	1810088	VV	0.054	1	10.558	2-Chlorotoluene
17.540	1745124	VV	0.054	1	9.898	4-Chlorotoluene
18.637	2609373	VV	0.052	1	9.781	1,3-Dichlorobenzene
18.795	2905858	VV	0.053	1	9.954	1,4-Dichlorobenzene
19.441	2507452	VV	0.055	1	9.988	1,2-Dichlorobenzene
20.828	308853	VV	0.060	1	9.350	1,2-Dibromo-3-chloropropane
22.276	2711247	PV	0.055	1	9.408	1,2,4-Trichlorobenzene
22.587	3121944	VV	0.061	1	8.584	Hexachlorobutadiene
23.138	2416455	VV	0.057	1	9.385	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\023F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: 148781 x8 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 08:25 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\023R0101.D
perator : MJC
nstrument : GC1
ample Name : 148781 x8 msd
un Time Bar Code:
cquired on : 10 Aug 05 08:25 PM
eport Created on: 11 Aug 05 01:51 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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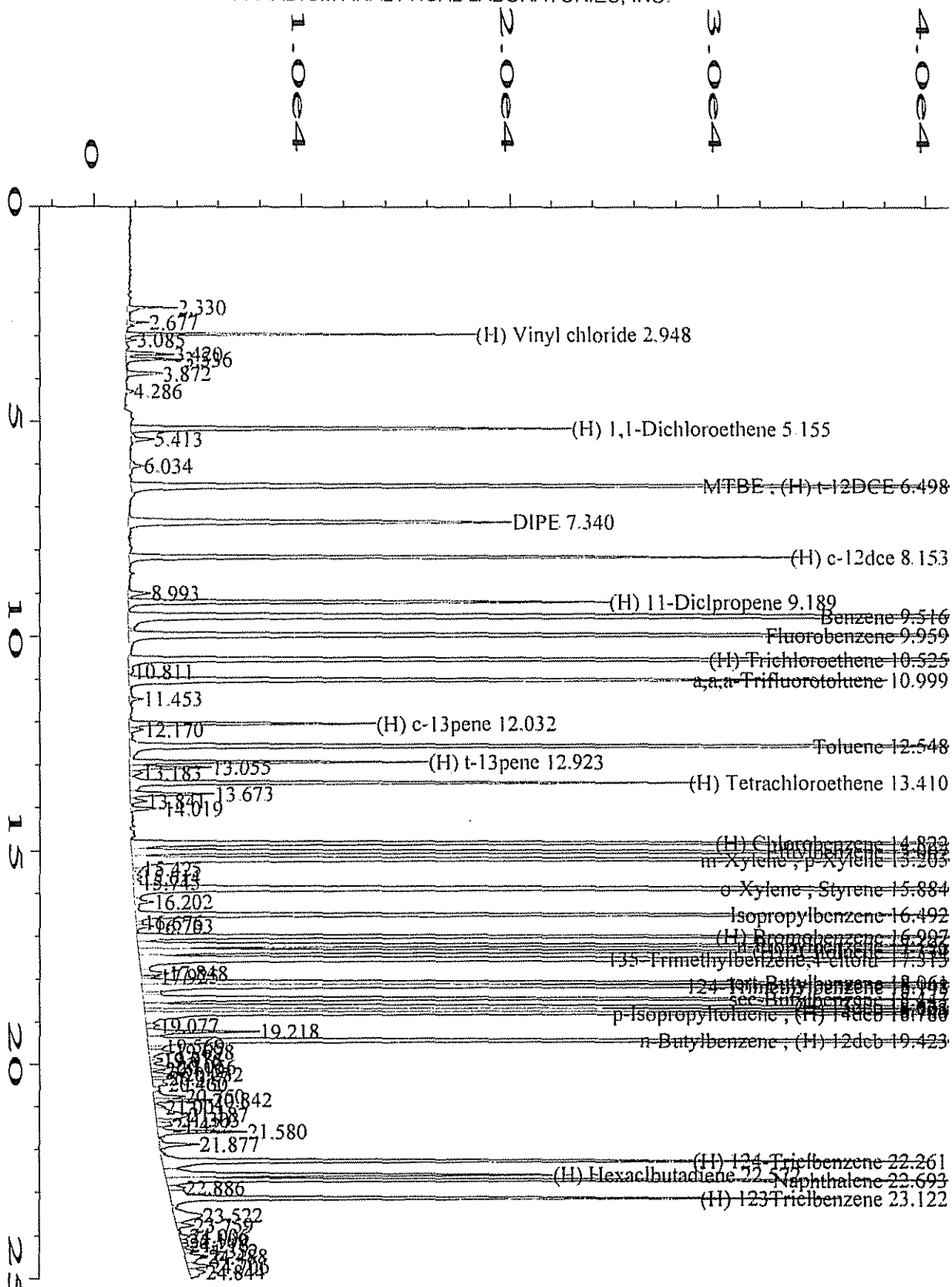
et Time	Area	Type	Width	Ref#	µg/L	Name
2.948	37064	PV	0.034	1	9.613	(H) Vinyl chloride
5.155	85432	PV	0.062	1	9.080	(H) 1,1-Dichloroethene
6.498	237193	PV	0.058	1	18.086	MTBE ; (H) t-12DCE
7.340	96608	VV	0.081	1	9.274	DIPE
8.153	117056	VV	0.056	1	11.278	(H) c-12dce
9.189	89546	VV	0.061	1	9.272	(H) 11-Diclpropene
9.516	600965	VV	0.059	1	25.260	Benzene
9.959	278030	VV	0.059	1-I	40.000	Fluorobenzene
10.525	305605	VV	0.056	1	22.614	(H) Trichloroethene
10.999	154461	VV	0.065	1	103.907	a,a,a-Trifluorotoluene
12.032	41308	VV	0.054	1	9.141	(H) c-13pene
12.548	223898	VV	0.056	1	9.393	Toluene
12.923	46468	VV	0.050	1	8.808	(H) t-13pene
13.410	103160	VV	0.058	1	9.661	(H) Tetrachloroethene
14.822	222914	PV	0.052	1	9.135	(H) Chlorobenzene
15.007	211998	VV	0.054	1	9.209	Ethylbenzene
15.205	509766	VV	0.055	1	18.183	m-Xylene ; p-Xylene
15.884	433812	VV	0.067	1	18.010	o-Xylene ; Styrene
16.492	173137	VV	0.057	1	9.250	Isopropylbenzene
16.997	220211	VV	0.051	1	8.871	(H) Bromobenzene
17.196	201202	VV	0.054	1	9.073	n-Propylbenzene
17.334	224140	VV	0.054	1	9.074	(H) 2Cltoluene
17.515	536013	VV	0.059	1	17.986	135-Trimethylbenzene;4-cltolu
18.061	155989	VV	0.057	1	9.012	tert-Butylbenzene
18.148	239719	VV	0.055	1	9.047	124-Trimethylbenzene
18.443	170336	VV	0.060	1	9.050	sec-Butylbenzene
18.622	221066	VV	0.051	1	8.973	(H) 13dcb
18.780	235059	VV	0.052	1	18.089	p-Isopropyltoluene ; (H) 14dcb
19.423	325158	VV	0.054	1	17.348	n-Butylbenzene ; (H) 12dcb
22.261	135501	VV	0.055	1	9.550	(H) 124-Triclbenzene
22.572	75293	VV	0.061	1	8.341	(H) Hexaclbutadiene
22.693	150977	VV	0.052	1	11.239	Naphthalene
23.122	118767	VV	0.056	1	9.320	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\081005\023R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: 148781 x8 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 08:25 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\006F0101.D
perator : MJC
nstrument : GC1
ample Name : lcs1081005a
un Time Bar Code:
cquired on : 10 Aug 05 11:35 AM
eport Created on: 11 Aug 05 01:48 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

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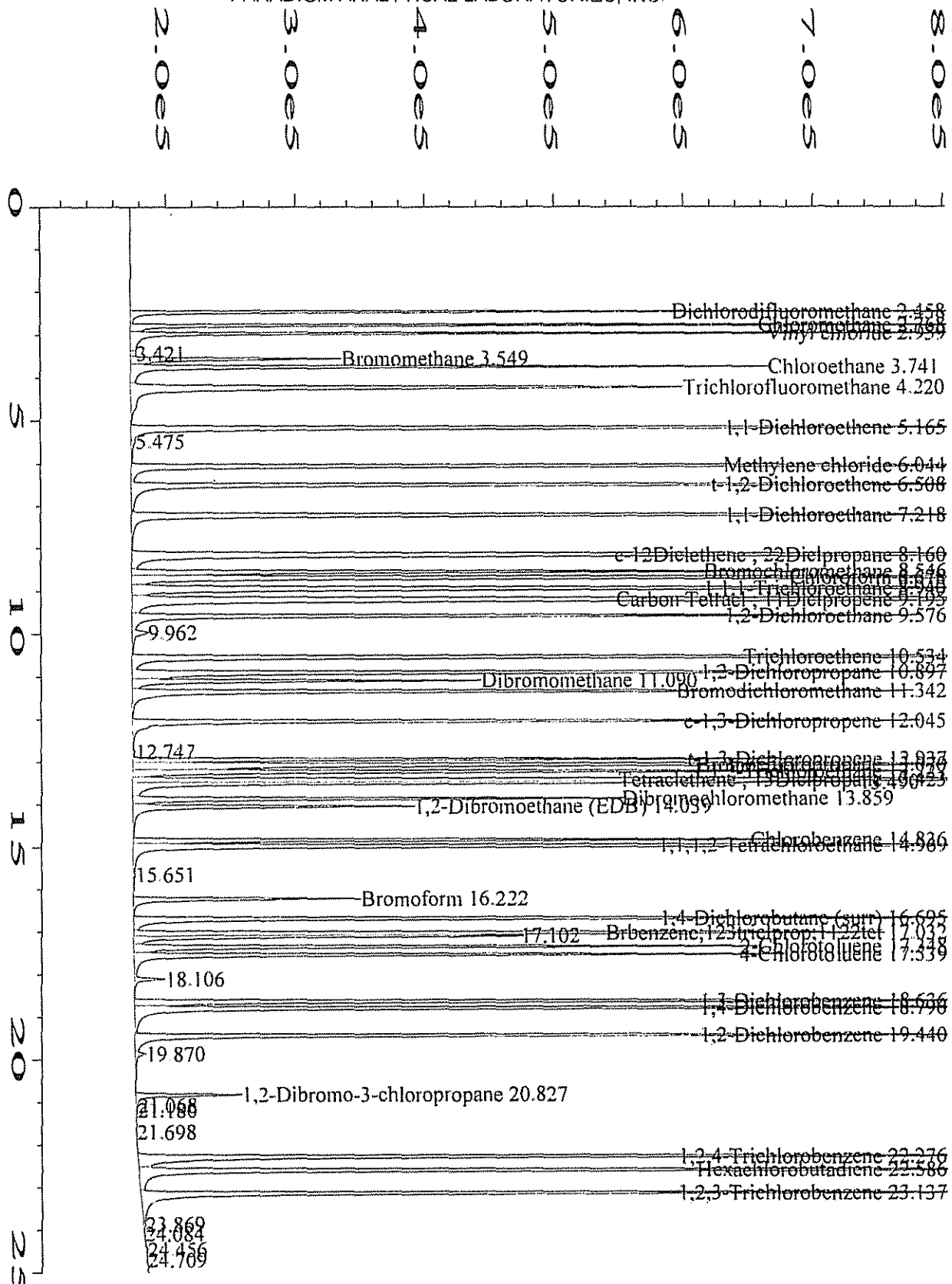
et Time	Area	Type	Width	Ref#	µg/L	Name
2.458	1630920	BV	0.031	1	9.999	Dichlorodifluoromethane
2.768	2459102	VV	0.027	1	10.209	Chloromethane
2.959	1726272	VV	0.037	1	10.231	Vinyl chloride
3.549	603421	VV	0.055	1	7.203	Bromomethane
3.741	1664962	VV	0.052	1	9.629	Chloroethane
4.220	2215594	VV	0.078	1	9.280	Trichlorofluoromethane
5.165	2927304	VV	0.063	1	9.803	1,1-Dichloroethene
6.044	3279126	VV	0.060	1	9.717	Methylene chloride
6.508	3089033	VV	0.056	1	9.966	t-1,2-Dichloroethene
7.218	3063147	VV	0.067	1	9.959	1,1-Dichloroethane
8.160	5093623	VV	0.069	1	19.243	c-12Diclethene ; 22Diclpropane
8.546	1806961	VV	0.055	1	9.857	Bromochloromethane
8.678	3626192	VV	0.069	1	9.415	Chloroform
8.940	3642460	VV	0.072	1	10.347	1,1,1-Trichloroethane
9.195	6393029	VV	0.065	1	20.886	Carbon Tetracl ; 11Diclpropene
9.576	2254386	VV	0.057	1	9.872	1,2-Dichloroethane
10.534	3431596	VV	0.063	1	9.334	Trichloroethene
10.897	2693958	VV	0.063	1	9.969	1,2-Dichloropropane
11.090	1008185	VV	0.054	1	8.843	Dibromomethane
11.342	2333252	VV	0.060	1	9.776	Bromodichloromethane
12.045	2160484	VV	0.055	1	10.078	c-1,3-Dichloropropene
12.937	1602942	VV	0.049	1	9.557	t-1,3-Dichloropropene
13.070	3405006	VV	0.062	1-I	40.000	Bromochloropropane
13.227	2231476	VV	0.058	1	9.829	1,1,2-Trichloroethane
13.423	3930796	VV	0.057	1	18.903	Tetraclethene ; 13Diclpropane
13.859	1381556	VV	0.061	1	9.174	Dibromochloromethane
14.039	910541	VV	0.124	1	8.956	1,2-Dibromoethane (EDB)
14.836	1636266	VV	0.051	1	10.538	Chlorobenzene
14.969	3466001	VV	0.058	1	9.446	1,1,1,2-Tetrachloroethane
16.222	686471	PV	0.059	1	8.478	Bromoform
16.695	2532447	VV	0.054	1	103.579	1,4-Dichlorobutane (surr)
17.032	2389364	VV	0.065	1	29.528	Brbenzene;123triclprop;1122tet
17.348	1718367	VV	0.056	1	10.203	2-Chlorotoluene
17.539	1768221	VV	0.054	1	10.221	4-Chlorotoluene
18.636	2676595	VV	0.052	1	10.221	1,3-Dichlorobenzene
18.796	3018211	VV	0.053	1	10.537	1,4-Dichlorobenzene
19.440	2510028	VV	0.054	1	10.186	1,2-Dichlorobenzene
20.827	323768	PV	0.060	1	9.962	1,2-Dibromo-3-chloropropane
22.276	2906364	PV	0.056	1	10.270	1,2,4-Trichlorobenzene
22.586	3242392	VV	0.061	1	9.087	Hexachlorobutadiene
23.137	2648683	VV	0.057	1	10.480	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\006F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 6
Sample Name	: lcs1081005a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 11:35 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 11 Aug 05 01:48 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\006R0101.D
perator : MJC
nstrument : GC1
ample Name : lcs1081005a
un Time Bar Code:
cquired on : 10 Aug 05 11:35 AM
eport Created on: 11 Aug 05 01:48 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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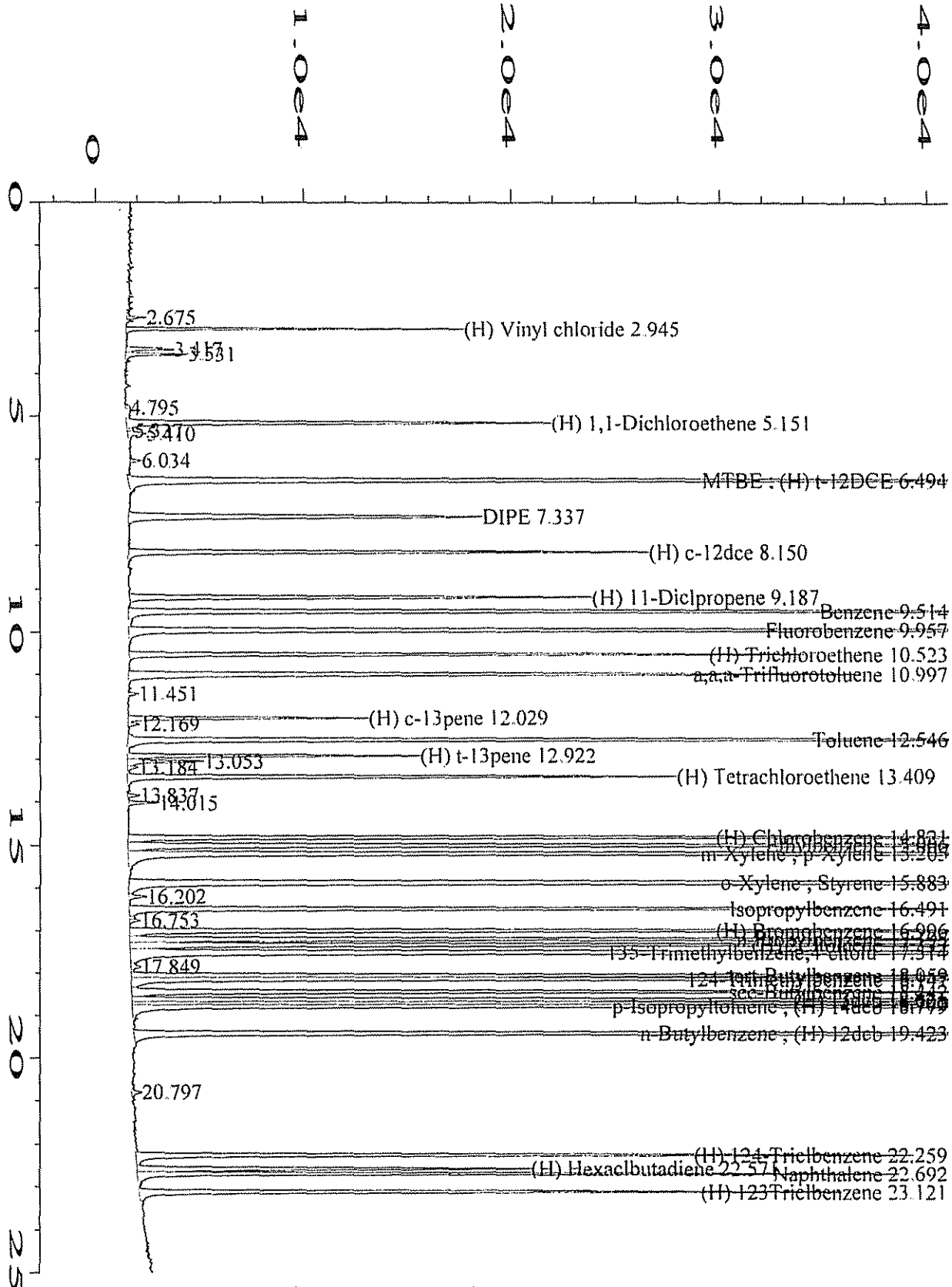
et Time	Area	Type	Width	Ref#	µg/L	Name
2.945	35704	VV	0.034	1	9.722	(H) Vinyl chloride
5.151	84488	VV	0.063	1	9.428	(H) 1,1-Dichloroethene
6.494	230922	PV	0.060	1	18.481	MTBE ; (H) t-12DCE
7.337	88476	VV	0.078	1	8.911	DIPE
8.150	91042	VV	0.056	1	9.201	(H) c-12dce
9.187	84918	PV	0.058	1	9.228	(H) 11-Diclpropene
9.514	210101	PV	0.059	1	9.296	Benzene
9.957	264921	VV	0.059	1-I	40.000	Fluorobenzene
10.523	115652	PV	0.056	1	9.039	(H) Trichloroethene
10.997	147566	VV	0.065	1	104.182	a,a,a-Trifluorotoluene
12.029	39151	BV	0.052	1	9.092	(H) c-13pene
12.546	214820	PV	0.055	1	9.457	Toluene
12.922	45687	VV	0.050	1	9.088	(H) t-13pene
13.409	95821	VV	0.057	1	9.421	(H) Tetrachloroethene
14.821	218372	PV	0.052	1	9.388	(H) Chlorobenzene
15.006	206849	VV	0.055	1	9.426	Ethylbenzene
15.205	513650	VV	0.055	1	19.214	m-Xylene ; p-Xylene
15.883	438477	VV	0.067	1	19.089	o-Xylene ; Styrene
16.491	168421	VV	0.057	1	9.440	Isopropylbenzene
16.996	219440	PV	0.051	1	9.271	(H) Bromobenzene
17.195	201051	VV	0.054	1	9.508	n-Propylbenzene
17.333	224753	VV	0.053	1	9.542	(H) 2Cltoluene
17.514	542219	VV	0.059	1	19.065	135-Trimethylbenzene;4-cltolu
18.059	153340	VV	0.056	1	9.289	tert-Butylbenzene
18.147	240291	VV	0.054	1	9.501	124-Trimethylbenzene
18.442	165737	VV	0.058	1	9.235	sec-Butylbenzene
18.621	221689	VV	0.050	1	9.433	(H) 13dcb
18.779	235016	VV	0.051	1	18.961	p-Isopropyltoluene ; (H) 14dcb
19.423	328318	PV	0.053	1	18.342	n-Butylbenzene ; (H) 12dcb
22.259	127732	VV	0.052	1	9.452	(H) 124-Triclbenzene
22.571	70631	VV	0.058	1	8.220	(H) Hexaclbutadiene
22.692	123860	VV	0.052	1	9.731	Naphthalene
23.121	115785	VV	0.052	1	9.524	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\081005\006R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 6
Sample Name	: lcs1081005a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 11:35 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 11 Aug 05 01:49 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

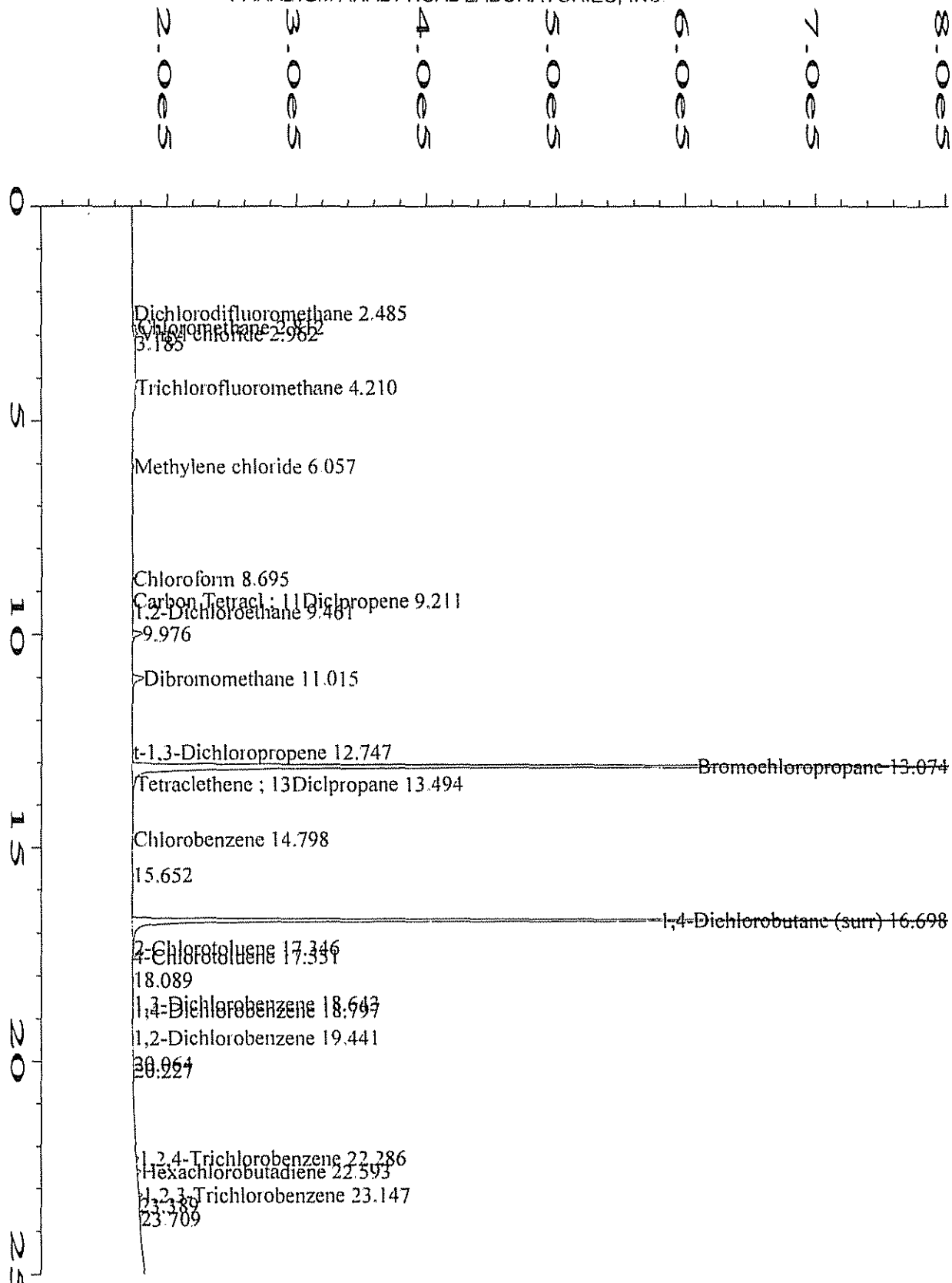
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\008F0101.D
perator : MJC
nstrument : GC1
ample Name : vblk1081005a
un Time Bar Code:
cquired on : 10 Aug 05 12:37 PM
eport Created on: 11 Aug 05 01:49 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\081005\008F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.485	2904	BV	0.046	1	-0.0867	Dichlorodifluoromethane
2.812	21580	PV	0.101	1	-0.517	Chloromethane
2.962	25517	VV	0.091	1	-0.367	Vinyl chloride
3.514	* not found *			1		Bromomethane
3.726	* not found *			1		Chloroethane
4.210	2943	BV	0.138	1	-0.414	Trichlorofluoromethane
5.152	* not found *			1		1,1-Dichloroethene
6.057	5734	BV	0.060	1	-0.296	Methylene chloride
6.502	* not found *			1		t-1,2-Dichloroethene
7.215	* not found *			1		1,1-Dichloroethane
8.151	* not found *			1		c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.695	2944	BB	0.072	1	-0.221	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.211	3953	BV	0.145	1	-1.309	Carbon Tetracl ; 11Diclpropene
9.461	2236	PV	0.056	1	-0.249	1,2-Dichloroethane
10.528	* not found *			1		Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.015	74649	BV	0.135	1	0.883	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.747	2880	BB	0.062	1	-0.0572	t-1,3-Dichloropropene
13.074	3270498	BV	0.062	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.494	21395	VV	0.128	1	-0.834	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.798	4947	BV	0.076	1	-0.0835	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.698	2365770	BV	0.054	1	100.741	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.346	5637	VV	0.132	1	-0.133	2-Chlorotoluene
17.551	4586	VV	0.141	1	-0.140	4-Chlorotoluene
18.643	1584	VV	0.064	1	-0.0372	1,3-Dichlorobenzene
18.797	2054	VV	0.072	1	-0.114	1,4-Dichlorobenzene
19.441	2496	PV	0.094	1	-0.0691	1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.286	8077	PV	0.060	1	0.0575	1,2,4-Trichlorobenzene
22.593	14478	VV	0.068	1	-0.0745	Hexachlorobutadiene
23.147	17899	VV	0.084	1	0.0613	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\008F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 8
Sample Name	: vblk1081005a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 12:37 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	11 Aug 05 01:49 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\008R0101.D
perator : MJC
nstrument : GC1
ample Name : vblk1081005a
un Time Bar Code:
cquired on : 10 Aug 05 12:37 PM
eport Created on: 11 Aug 05 01:49 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

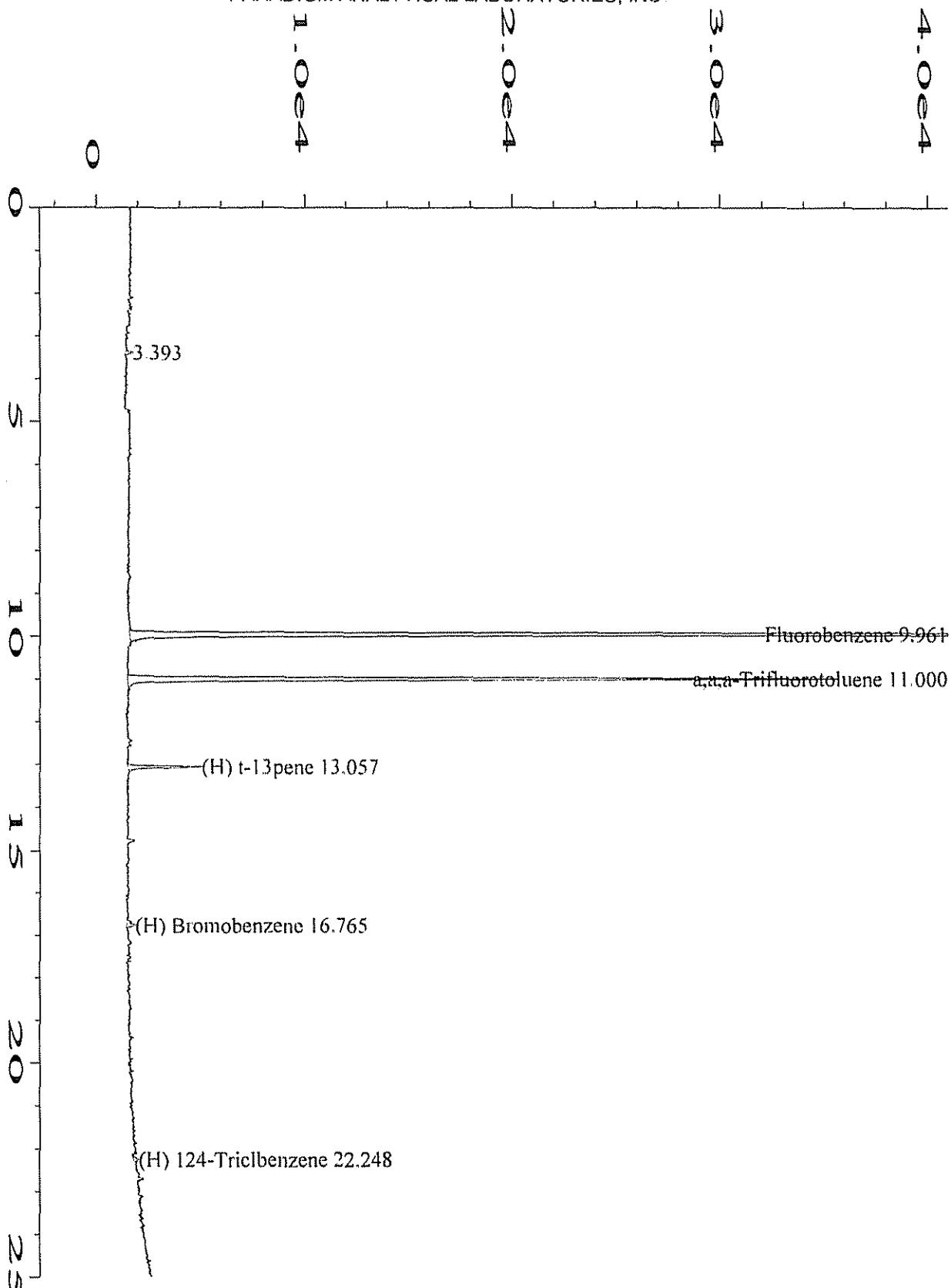
Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\008R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.941	* not found *			1		(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.485	* not found *			1		MTBE ; (H) t-12DCE
7.329	* not found *			1		DIPE
8.141	* not found *			1		(H) c-12dce
9.179	* not found *			1		(H) 11-Diclpropene
9.506	* not found *			1		Benzene
9.961	256629	VV	0.058	1-I	40.000	Fluorobenzene
10.516	* not found *			1		(H) Trichloroethene
11.000	139209	PV	0.063	1	101.457	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.541	* not found *			1		Toluene
13.057	13374	PV	0.048	1	2.744	(H) t-13pene
13.404	* not found *			1		(H) Tetrachloroethene
14.816	* not found *			1		(H) Chlorobenzene
15.002	* not found *			1		Ethylbenzene
15.200	* not found *			1		m-Xylene ; p-Xylene
15.878	* not found *			1		o-Xylene ; Styrene
16.486	* not found *			1		Isopropylbenzene
16.765	1701	VV	0.052	1	0.212	(H) Bromobenzene
17.190	* not found *			1		n-Propylbenzene
17.328	* not found *			1		(H) 2Cltoluene
17.509	* not found *			1		135-Trimethylbenzene;4-cltolu
18.054	* not found *			1		tert-Butylbenzene
18.142	* not found *			1		124-Trimethylbenzene
18.436	* not found *			1		sec-Butylbenzene
18.615	* not found *			1		(H) 13dcb
18.773	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
19.416	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.248	1074	VV	0.056	1	0.513	(H) 124-Triclbenzene
22.563	* not found *			1		(H) Hexaclbutadiene
22.684	* not found *			1		Naphthalene
23.113	* not found *			1		(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\008R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 8
Sample Name	: vblk1081005a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 12:37 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 11 Aug 05 01:49 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 Prep, Standard, Run Logs

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A- 19	Restek 502.2 MEGA mix lot A033291	2000	100	10	20
	7B- 136	MTBE/DIPE stock 7- 080205	2000	100	10	20
Soil BASE Mix:	7A- 19	Restek 502.2 MEGA mix lot A033291	2000	25	10	5
	7B- 136	MTBE/DIPE stock 7- 080205	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-2-05
Prep date: ↓
Expiration date: 9-2-05

PAL lot number:
8021WBC-7- 080205
8021SBC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 27	Restek gases A034238	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-2-05
Prep date: ↓
Expiration date: 8-9-05

PAL lot number:
8021WGC-7- 080205
8021SGC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 27	Restek gases A034238	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-9-05
Prep date: ↓
Expiration date: 8-16-05

PAL lot number:
8021WGC-7- 080905
8021SGC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGC-7-
8021SGC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGC-7-
8021SGC-7-

See reverse for any comments

page: C65

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PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A- 20	Restek 502.2 MEGA mix lot A033292	2000	100	10	20
	7B- 137	MTBE/DIPE stock 7- 080205	2000	100	10	20
Soil BASE Mix:	7A- 20	Restek 502.2 MEGA mix lot A033292	2000	25	10	5
	7B- 137	MTBE/DIPE stock 7- 080205	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-2-05
Prep date: ↓
Expiration date: 9-2-05

PAL lot number:
8021WBQ-7-
8021SBQ-7- 080205

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 28	Restek gases A036202	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-2-05
Prep date: ↓
Expiration date: 8-9-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 080205

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 28	Restek gases A036202	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN637				

Ampule opened: 8-9-05
Prep date: ↓
Expiration date: 8-16-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 080905

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGQ-7-
8021SGQ-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGQ-7-
8021SGQ-7-

See reverse for any comments

page: G7D

VO14.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

8021S/WBQ-7-080205-C70
8021S/SGQ-7-080205-C70

8021S/WBC-7-080205-C69
8021S/SGC-7-0080205-C69

Paradigm Analytical

GC 1 Runlog Sheet

Method: 8021 / 6230D / 601 / 602 ; 5030 / 5035

Initial Cal. Curve: **W-08/02/05 S-07/27/05**

Matrix: Water / Soil

Batch: 080205

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
001F0101.D	b	8/2/05 7:07				MJC		
002F0101.D	b	8/2/05 7:38				MJC		
003F0101.D	g161-2097-1a	8/2/05 8:09	✓	✓	✓	MJC	✓	✓
004F0101.D	g161-2097-2a	8/2/05 8:40	x10 602			MJC		
005F0101.D	g161-2097-2b dup	8/2/05 9:11				MJC		
006F0101.D	g161-2097-3a	8/2/05 9:42				MJC		
007F0101.D	g161-2097-4a	8/2/05 10:13				MJC		
008F0101.D	g122-2628-6a	8/2/05 10:44				MJC		
009F0101.D	g122-2628-8a	8/2/05 11:15				MJC		
010F0101.D	g311-135-1a	8/2/05 11:46				MJC		
011F0101.D	g311-135-2a	8/2/05 12:18				MJC		
012F0101.D	g122-2628-7a x4	8/2/05 12:49	x1 Hg/			MJC		
013F0101.D	g122-2628-9a x20	8/2/05 13:20	x1 ↓			MJC		
014F0101.D	146401 x20 ms	8/2/05 13:51				MJC		
015F0101.D	146401 x20 msd	8/2/05 14:22				MJC		
016F0101.D	qchk010	8/2/05 14:53				MJC		
017F0101.D	qchk010	8/2/05 15:24				MJC		
018F0101.D	lcs1080205a	8/2/05 15:55				MJC		
019F0101.D	b	8/2/05 16:26				MJC		
020F0101.D	vblk1080205a	8/2/05 16:57	✓	✓	✓	MJC	✓	✓
021F0101.D	v0.5	8/2/05 17:28				MJC		
022F0101.D	v1	8/2/05 17:59				MJC		

Page Number: 4821

Analyst: MJC

V09.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8021S/WBQ-7-080205-C70
8021S/SGQ-7-080205-C70

8021S/WBC-7-080205-C69
8021S/SGC-7-0080205-C69

Paradigm Analytical

GC 1 Runlog Sheet

Method: 8021 / 6230D / 601 / 602 ; 5030 / 5035

Initial Cal. Curve: **W-08/02/05 S-07/27/05**

Matrix: Water / Soil

Batch: 080205

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
023F0101.D	v2	8/2/05 18:31	✓	✓	✓	MJC	✓	✓
024F0101.D	v5	8/2/05 19:02				MJC		
025F0101.D	v10	8/2/05 19:34				MJC		
026F0101.D	v20	8/2/05 20:05				MJC		
027F0101.D	v25	8/2/05 20:37				MJC		
028F0101.D	v40	8/2/05 21:08				MJC		
029F0101.D	v50	8/2/05 21:39		✓	✓	MJC	✓	✓
030F0101.D	b	8/2/05 22:10				MJC		
031F0101.D	b	8/2/05 22:41				MJC		
032F0101.D	2ppbchk	8/2/05 23:12	✓	✓	✓	MJC	✓	✓
033F0101.D	qchk010	8/2/05 23:43				MJC		
034F0101.D	qchk010	8/3/05 0:14				MJC		
035F0101.D	lcs1080205b	8/3/05 0:45				MJC		
036F0101.D	b	8/3/05 1:16				MJC		
037F0101.D	vblk1080205b	8/3/05 1:47		✓	✓	MJC	✓	✓

Analyst: mjc

Page Number: 4822

V09.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8021S/WBQ-7-080205-C70
8021S/SGQ-7-080905-C70

8021S/WBC-7-080205-C69
8021S/SGC-7-080905-C69

Paradigm Analytical

GC 1 Runlog Sheet

Method: 8021 / 6230D / 601 / 602 : 5030 / 5035

Initial Cal. Curve: **W-08/02/05 S-07/27/05**

Matrix: Water / Soil

Batch: 081005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
001F0101.D	b	8/10/05 8:59				MJC		
002F0101.D	b	8/10/05 9:30				MJC		
003F0101.D	2ppbchk	8/10/05 10:01	✓	✓	✓	MJC	✓	✓
004F0101.D	qchk010	8/10/05 10:33				MJC		
005F0101.D	qchk010	8/10/05 11:04				MJC		
006F0101.D	lcs1081005a	8/10/05 11:35	✓	✓	✓	MJC	✓	✓
007F0101.D	b	8/10/05 12:06				MJC		
008F0101.D	vblk1081005a	8/10/05 12:37	✓	✓	✓	MJC	✓	✓
009F0101.D	g161-2103-3b	8/10/05 13:08				MJC		
010F0101.D	g161-2104-2a	8/10/05 13:39				MJC		
011F0101.D	g161-2103-1b	8/10/05 14:10				MJC		
012F0101.D	g161-2103-2b	8/10/05 14:41				MJC		
013F0101.D	g161-2104-1b	8/10/05 15:12				MJC		
014F0101.D	g537-162-18a	8/10/05 15:43				MJC		
015F0101.D	g537-162-18b dup	8/10/05 16:14				MJC		
016F0101.D	g537-162-19b	8/10/05 16:45				MJC		
017F0101.D	g537-162-20b	8/10/05 17:17				MJC		
018F0101.D	g537-162-23b	8/10/05 17:48				MJC		
019F0101.D	g537-161-2b	8/10/05 18:19				MJC		
020F0101.D	g537-161-3b	8/10/05 18:51				MJC		
021F0101.D	g537-162-22a x8	8/10/05 19:22				MJC		
022F0101.D	148781 x8 ms	8/10/05 19:53				MJC		

Page Number: ~~482~~ 483 S

Analyst: MJC

V09.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

8021S/WBQ-7-080205-C70
8021S/SGQ-7-080905-C70

8021S/WBC-7-080205-C69
8021S/SGC-7-080905-C69

Paradigm Analytical

GC 1 Runlog Sheet

Method: 8021 / 6230D / 601 / 602 : 5030 / 5035

Initial Cal. Curve: **W-08/02/05 S-07/27/05**

Matrix: Water / Soil

Batch: 081005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
023F0101.D	148781 x8 msd	8/10/05 20:25	✓	✓	✓	MJC	✓	✓
024F0101.D	qchk010	8/10/05 20:57				MJC		
025F0101.D	qchk010	8/10/05 21:28				MJC		
026F0101.D	lcs1081005b	8/10/05 21:59				MJC		
027F0101.D	b	8/10/05 22:30				MJC		
028F0101.D	vblk1081005b	8/10/05 23:01	✓	✓	✓	MJC	✓	✓
029F0101.D	g537-161-4b	8/10/05 23:33				MJC		
030F0101.D	g537-161-5b	8/11/05 0:04				MJC		
031F0101.D	g537-161-6b	8/11/05 0:35				MJC		
032F0101.D	g537-162-24a	8/11/05 1:06				MJC		
033F0101.D	g537-162-25a	8/11/05 1:37				MJC		
034F0101.D	g537-162-26a	8/11/05 2:08				MJC		
035F0101.D	g537-162-26b dup	8/11/05 2:39				MJC		
036F0101.D	g537-162-27a	8/11/05 3:11				MJC		
037F0101.D	g537-162-28a	8/11/05 3:42				MJC		
038F0101.D	g537-162-17a x5	8/11/05 4:13				MJC		
039F0101.D	g537-162-1a x50	8/11/05 4:44				MJC		
040F0101.D	148697 x50 ms	8/11/05 5:15				MJC		
041F0101.D	148697 x50 msd	8/11/05 5:46				MJC		
042F0101.D	b	8/11/05 6:18				MJC		
043F0101.D	b	8/11/05 6:49				MJC		

Analyst: MJC

Page Number: ~~4822~~-4836

V09.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

625-BN Sample Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6081205\0812605.D Vial: 5
Acq On : 12 Aug 2005 10:00 am Operator: MRC
Sample : G161-2103-1M x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 11:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

08/10/05

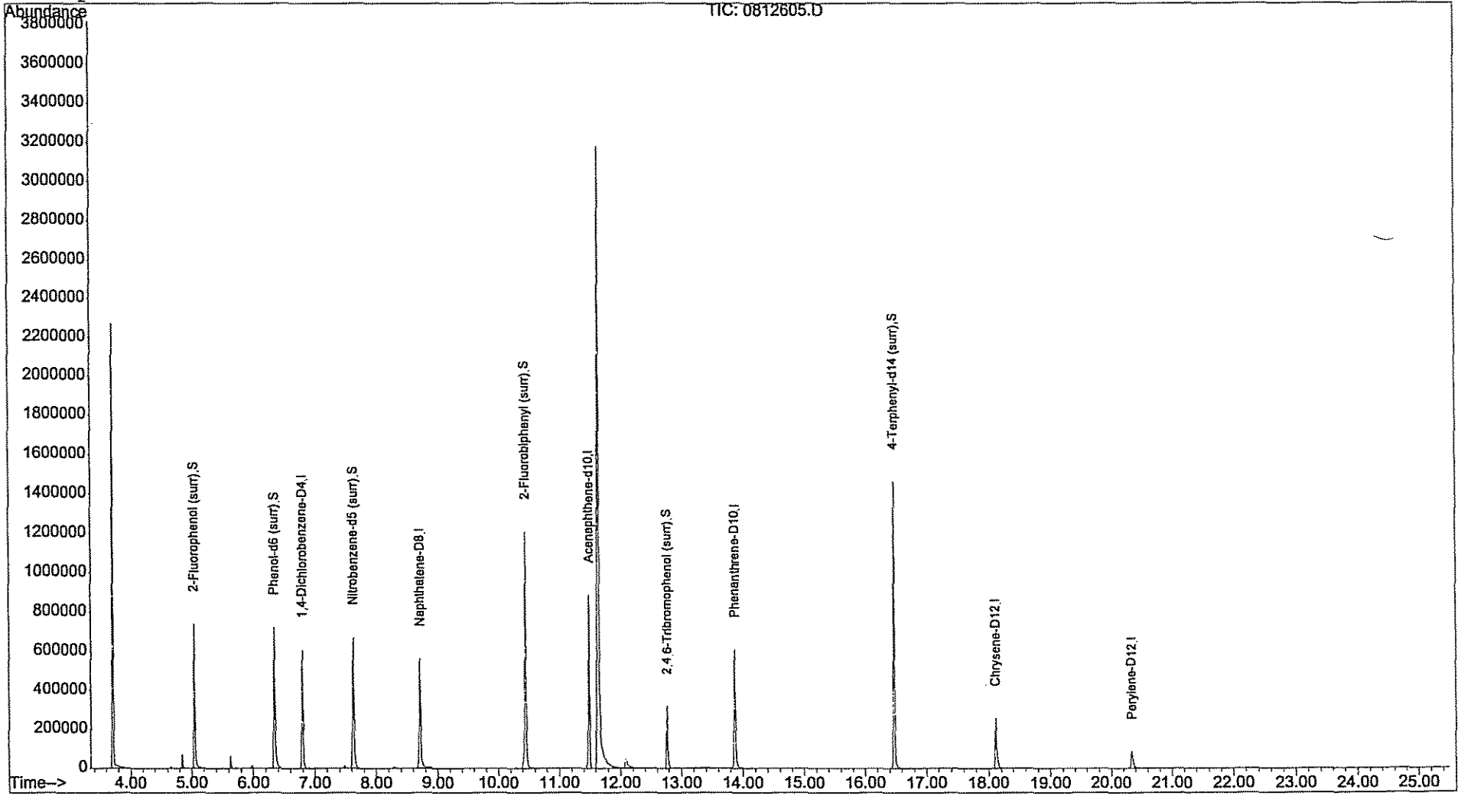
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.80	152	151030	4.00 ug/mL	-0.11
18) Naphthalene-D8	8.71	136	527460	4.00 ug/mL	-0.11
33) Acenaphthene-d10	11.50	164	333007	4.00 ug/mL	-0.11
55) Phenanthrene-D10	13.87	188	470044	4.00 ug/mL	-0.11
85) Chrysene-D12	18.11	240	232284	4.00 ug/mL	-0.12
93) Perylene-D12	20.34	264	115527	4.00 ug/mL	-0.14
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.04	112	274403	7.19 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 71.90%	
17) Phenol-d6 (surr)	6.34	99	442409	7.33 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 73.30%	
32) Nitrobenzene-d5 (surr)	7.63	128	152848	8.24 ug/mL	-0.10
Spiked Amount 10.000			Recovery	= 82.40%	
53) 2-Fluorobiphenyl (surr)	10.45	172	713012	7.59 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 75.90%	
54) 2,4,6-Tribromophenol (surr	12.77	330	67270	6.87 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 68.70%	
92) 4-Terphenyl-d14 (surr)	16.47	244	786680	13.68 ug/mL	-0.12
Spiked Amount 10.000			Recovery	= 136.80%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\6081205\0812605.D Vial: 5
Acq On : 12 Aug 2005 10:00 am Operator: MRC
Sample : G161-2103-1M x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 11:07 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration



PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6081205\0812605.D Vial: 5
Acq On : 12 Aug 2005 10:00 am Operator: MRC
Sample : G161-2103-1M x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.71	11.41 ug/mL	2497760	1,4-Dichlorobenzene-D4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	91
5	Toluene	92	C7H8	000108-88-3	87

****

Peak Number 2 1,3-Benzodioxol-2-one, hexahyd Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.84	0.33 ug/mL	72534	1,4-Dichlorobenzene-D4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Benzodioxol-2-one, hexahydro-,	142	C7H10O3	019456-20-3	12
2	Decitol, 1,2:4,5:9,10-trianhydro-2,	178	C10H10O3	052338-90-6	9
3	Ethanamine, N-methylene-	57	C3H7N	043729-97-1	7
4	1-Pentene	70	C5H10	000109-67-1	7
5	Cyclopropane, ethyl-	70	C5H10	001191-96-4	7

****

Peak Number 3 Acetyl chloride, dichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.63	0.31 ug/mL	67179	1,4-Dichlorobenzene-D4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetyl chloride, dichloro-	146	C2HCl3O	000079-36-7	4
2	Ethane, 1,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	4
3	Methane, bromodichloro-	162	CHBrCl2	000075-27-4	4
4	Trichloroacetic Acid	162	C2HCl3O2	000076-03-9	4
5	Butanoic acid, 3-methyl-, butyl est	158	C9H18O2	000109-19-3	4

Data File : C:\HPCHEM\1\DATA\6081205\0812605.D Vial: 5
Acq On : 12 Aug 2005 10:00 am Operator: MRC
Sample : G161-2103-1M x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 Disulfide, diethyl Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.64	19.83 ug/mL	6220080	Acenaphthene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Disulfide, diethyl	122	C4H10S2	000110-81-6	30
2	Spiro[3.3]heptane-2,6-dione	124	C7H8O2	020061-23-8	27
3	Pyrimidine, 5-methyl-, 1-oxide	110	C5H6N2O	017758-50-8	16
4	Diazene, dicyclohexyl-, 1,2-dioxide	226	C12H22N2O2	003378-45-8	16
5	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	16

****
Peak Number 5 1,3-Cyclopentadiene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	0.43 ug/mL	134755	Acenaphthene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentadiene	66	C5H6	000542-92-7	7
2	1,3-Cyclopentadiene	66	C5H6	000542-92-7	7
3	3-Penten-1-yne, (E)-	66	C5H6	002004-69-5	7
4	1-Penten-3-yne	66	C5H6	000646-05-9	7
5	1-Buten-3-yne, 2-methyl-	66	C5H6	000078-80-8	7

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 12 Aug 2005 10:00 am
Data File: C:\HPCHEM\1\DATA\6081205\0812605.D
Name: G161-2103-1M x1
Misc: 625 - BN - TICS - CLP [3520-3409]
Method: C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

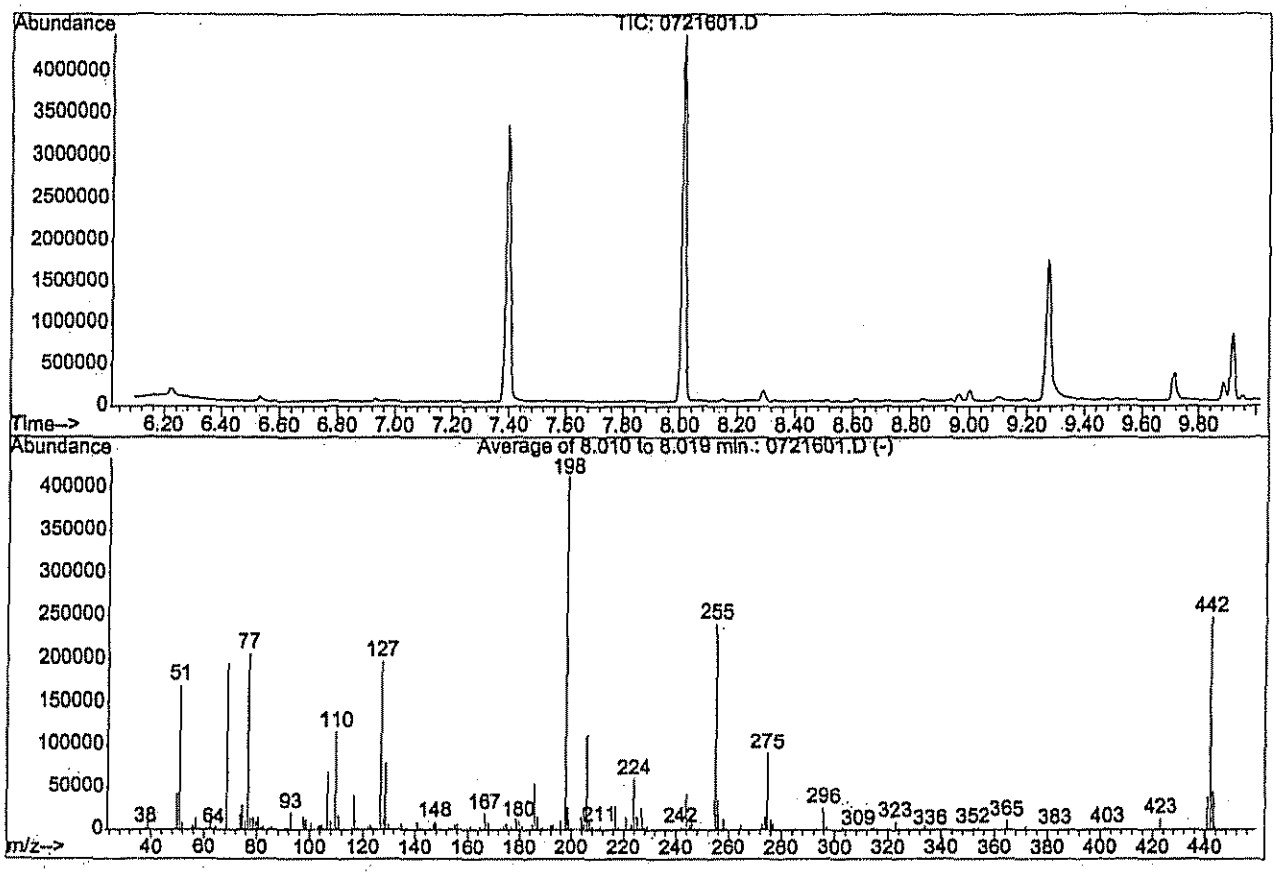
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Toluene	3.71	11.4	ug/mL	2497760	ISTD01	6.80	875612	4.0
1,3-Benzodioxol-2-on	4.84	0.3	ug/mL	72534	ISTD01	6.80	875612	4.0
Acetyl chloride, dic	5.63	0.3	ug/mL	67179	ISTD01	6.80	875612	4.0
Disulfide, diethyl	11.64	19.8	ug/mL	6220080	ISTD03	11.50	1254620	4.0
1,3-Cyclopentadiene	12.08	0.4	ug/mL	134755	ISTD03	11.50	1254620	4.0

0812605.D 8270.M Fri Aug 12 11:09:08 2005 ENV

625-BN Tuning

DFTPP

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 399, 400, 401; Background Corrected with Scan 391

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	169547	PASS
68	69	0.00	2	0.8	1473	PASS
69	198	0.00	100	47.1	195021	PASS
70	69	0.00	2	0.5	885	PASS
127	198	40	60	47.6	197375	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	414379	PASS
199	198	5	9	6.7	27705	PASS
275	198	10	30	21.9	90888	PASS
365	198	1	100	2.6	10770	PASS
441	443	0.01	100	86.1	39656	PASS
442	198	40	100	59.8	247936	PASS
443	442	17	23	18.6	46032	PASS

0721601.D DFTPP.M Thu Jul 21 09:09:38 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

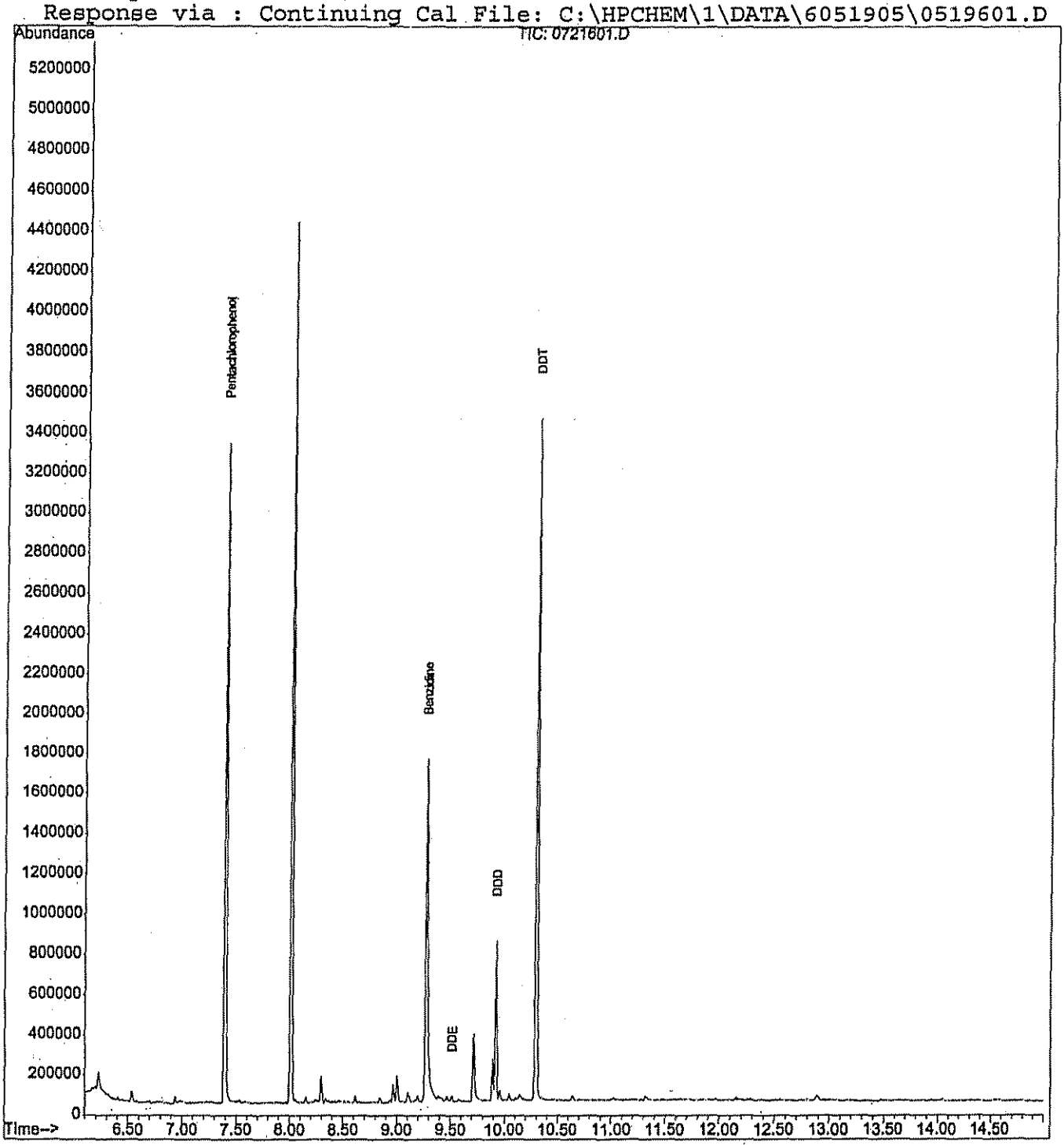
Target Compounds					Qvalue
1) Pentachlorophenol	7.39	TIC	3725642	2.32	100
2) Benzidine	9.27	TIC	2459087	2.71	100
3) DDT	10.29	TIC	3678880	6.88	100
4) DDD	9.92	TIC	778711	151.52	100
5) DDE	9.51	TIC	29294m	1.51	

(#) = qualifier out of range (m) = manual integration
0721601.D DFTPP.M Thu Jul 21 11:10:22 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: DFTPP.RES

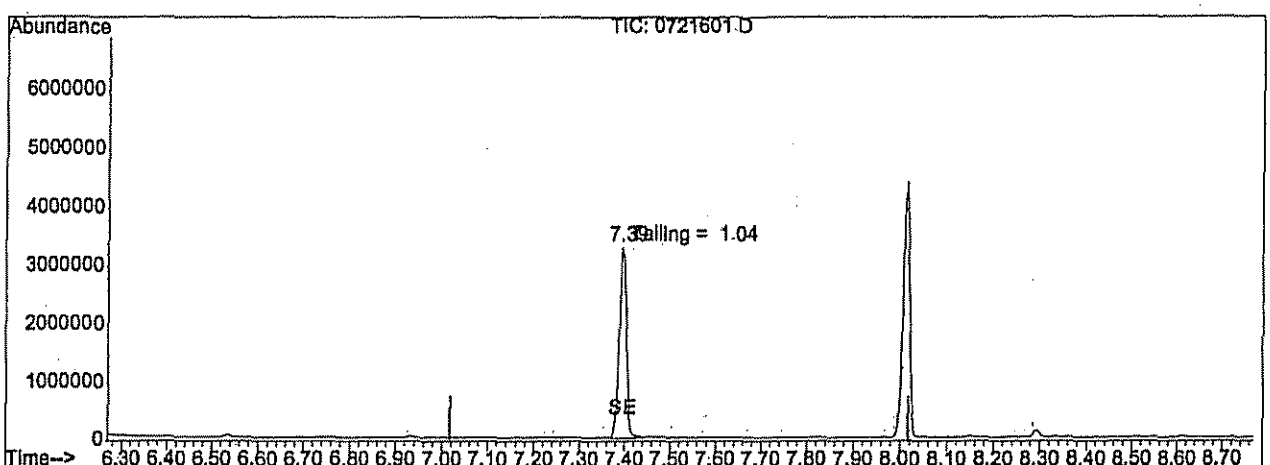
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

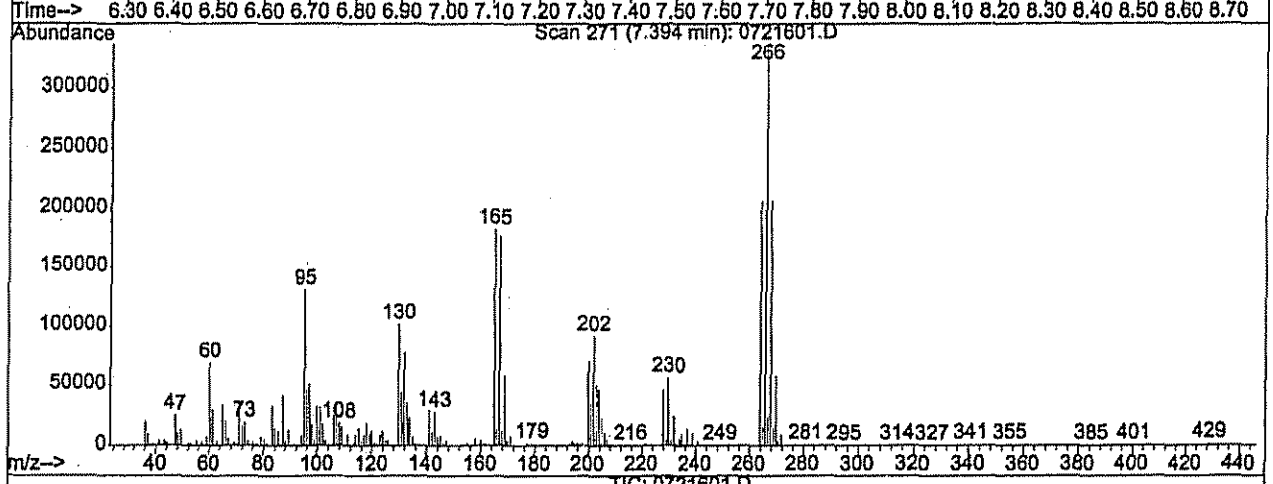


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0721601.D

(1) Pentachlorophenol

7.39min 2.32

response 3725642

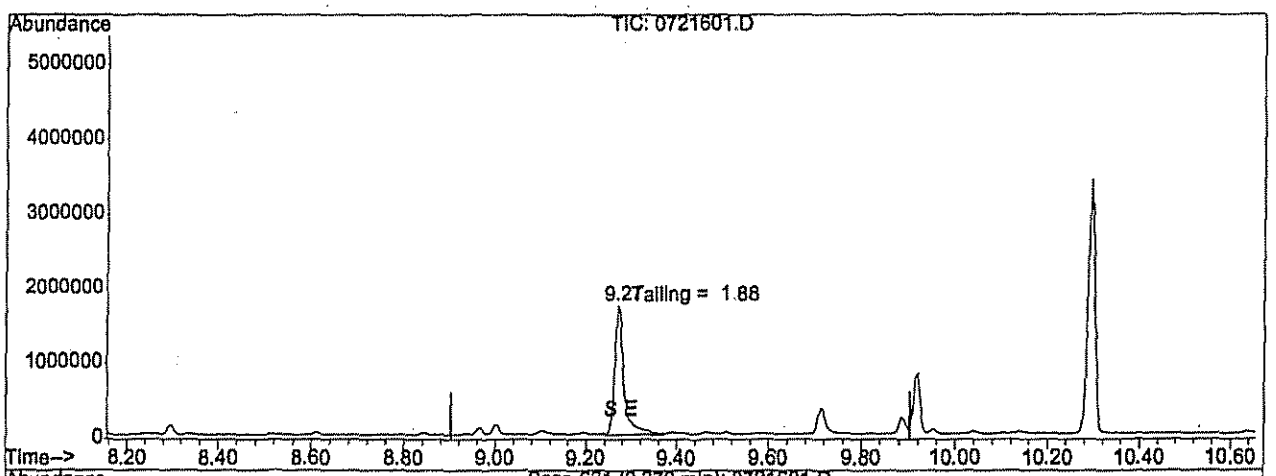
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0721601.D DFTPP.M Thu Jul 21 11:11:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D Vial: 1
Acq On : 21 Jul 2005 8:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 9:30 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration



(2) Benzidine

9.27min 2.71

response 2459087

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0721601.D DFTPP.M Thu Jul 21 11:11:34 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	3678880
	DDD	778711
	DDE	29294
	% Breakdown =	**18.01%**

Date: 07/21/05

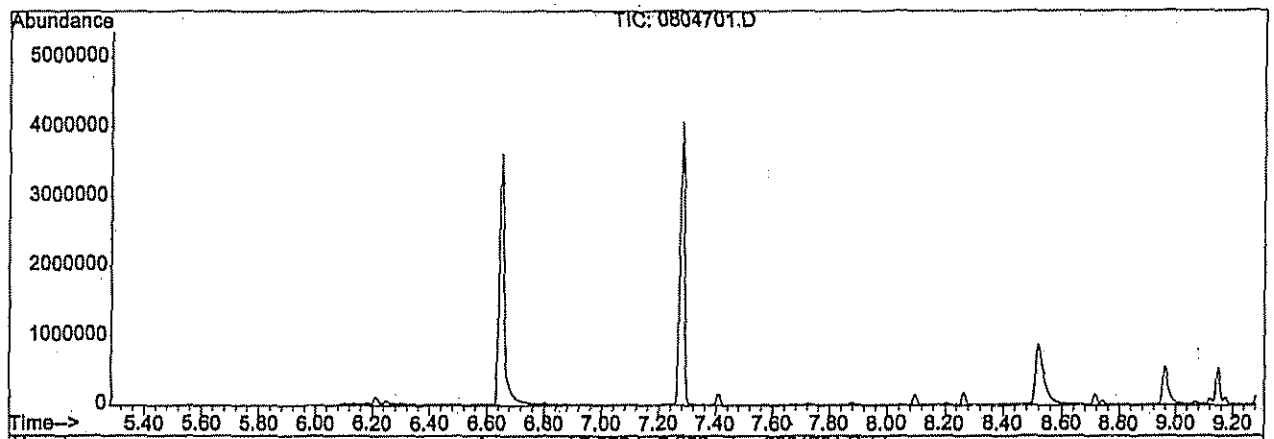
Instrument: MSD6

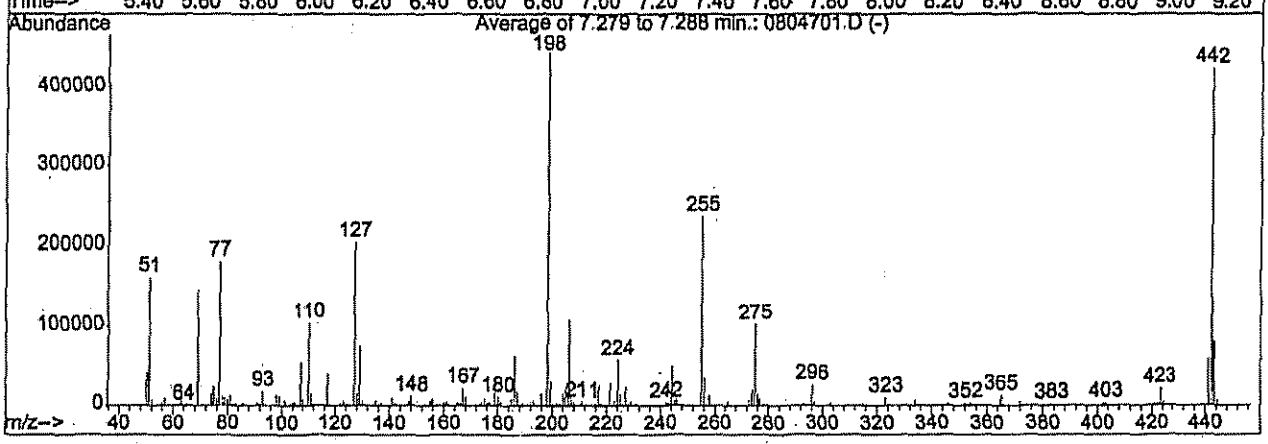
File: 0721601.d

DFTPP

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D
Acq On : 4 Aug 2005 8:20 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00





AutoFind: Scans 252, 253, 254; Background Corrected with Scan 245

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	160618	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	32.7	145487	PASS
70	69	0.00	2	0.6	812	PASS
127	198	40	60	45.9	203989	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	444736	PASS
199	198	5	9	6.5	28986	PASS
275	198	10	30	23.0	102426	PASS
365	198	1	100	2.7	12228	PASS
441	443	0.01	100	73.2	59026	PASS
442	198	40	100	95.5	424704	PASS
443	442	17	23	19.0	80688	PASS

0804701.D DFTPP.M Thu Aug 04 08:35:52 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D Vial: 1
Acq On : 4 Aug 2005 8:20 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 08:59:30 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

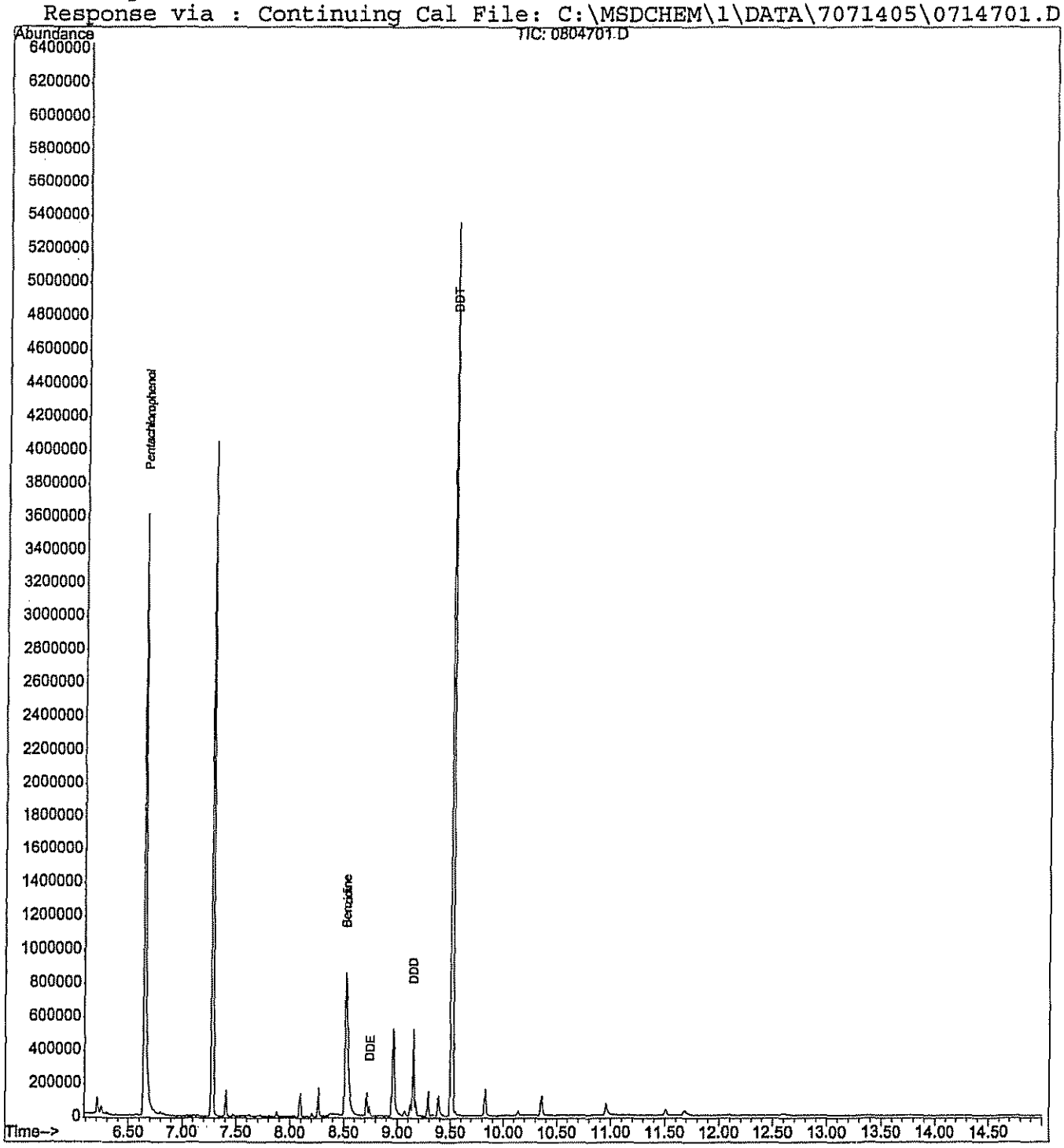
Target Compounds						Qvalue
1) Pentachlorophenol	6.65	TIC	4663965	12.03		100
2) Benzidine	8.52	TIC	1723776m	4.06		
3) DDT	9.51	TIC	6267740	12.31		100
4) DDD	9.15	TIC	438115	11.75		100
5) DDE	8.74	TIC	39658m	9.77		

(#) = qualifier out of range (m) = manual integration
0804701.D DFTPP.M Thu Aug 04 09:00:10 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D Vial: 1
Acq On : 4 Aug 2005 8:20 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 8:59 2005 Quant Results File: DFTPP.RES

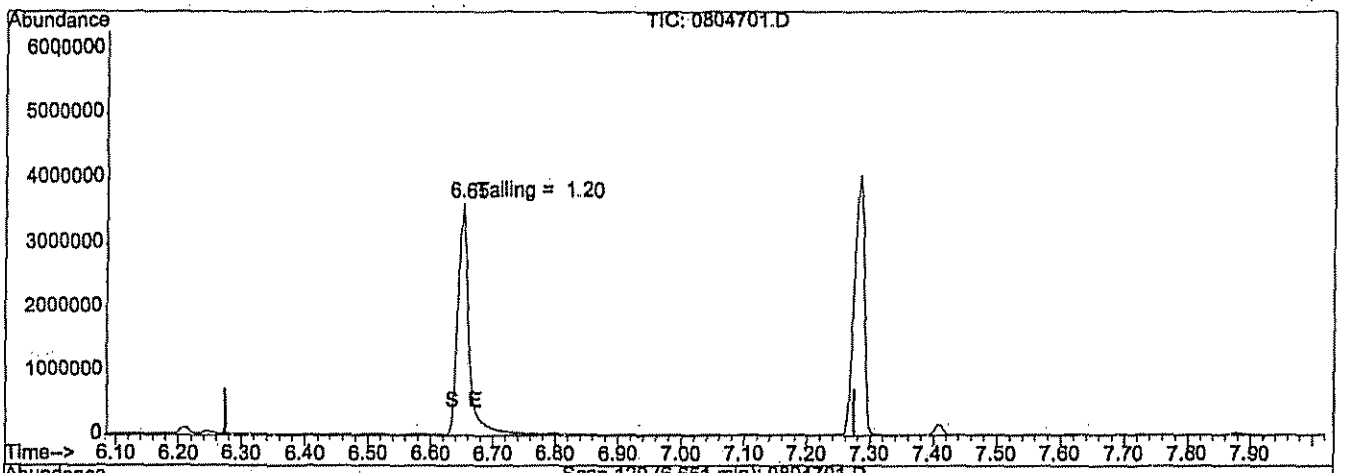
Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D

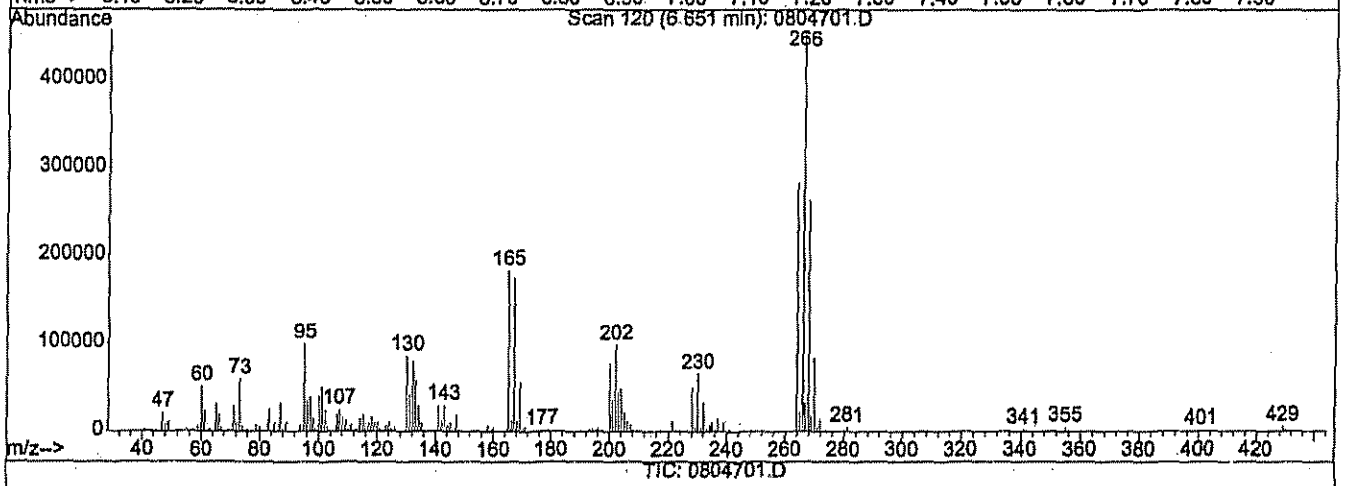


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D Vial: 1
Acq On : 4 Aug 2005 8:20 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 8:59 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

6.65min 12.03

response 4663965

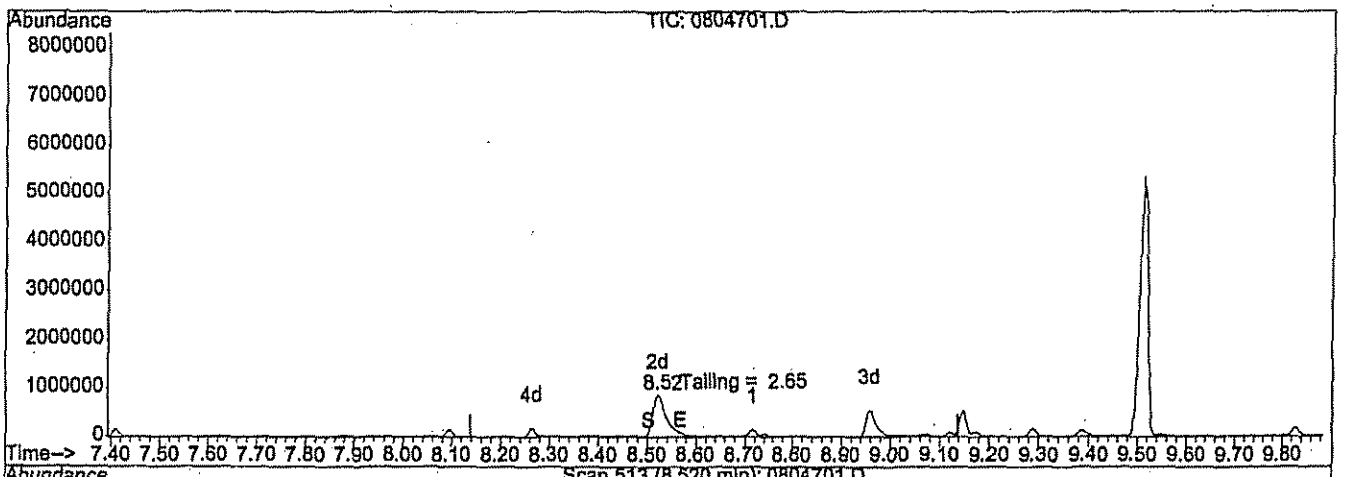
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

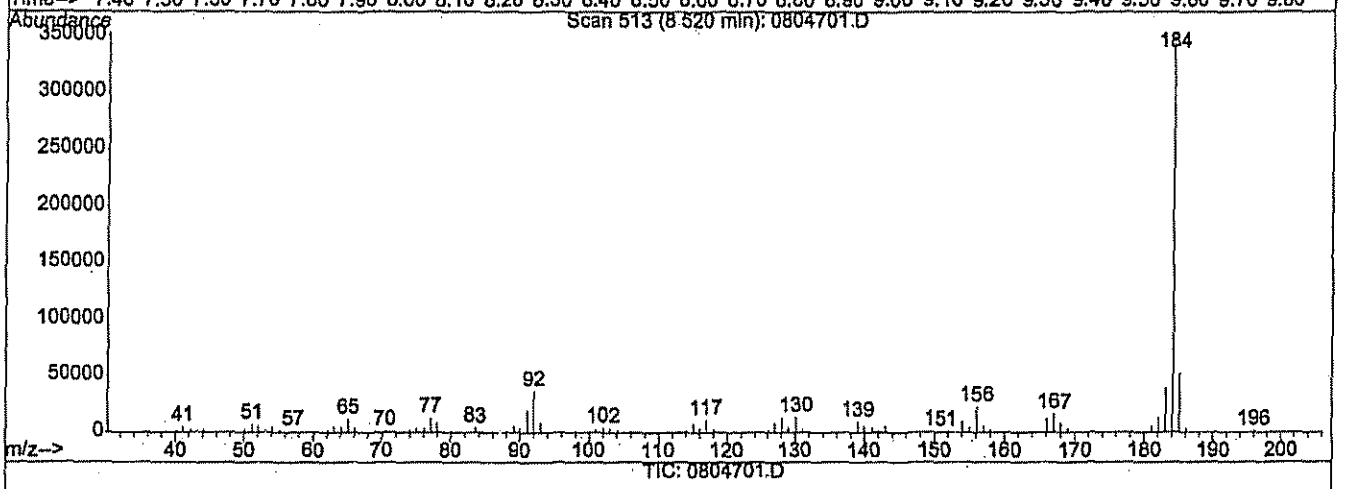
0804701.D DFTPP.M Thu Aug 04 09:00:41 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D Vial: 1
Acq On : 4 Aug 2005 8:20 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 8:59 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





(2) Benzidine

8.52min 4.06 m

response 1723776

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0804701.D DFTPP.M Thu Aug 04 09:00:51 2005 ENV

DDT Breakdown Report

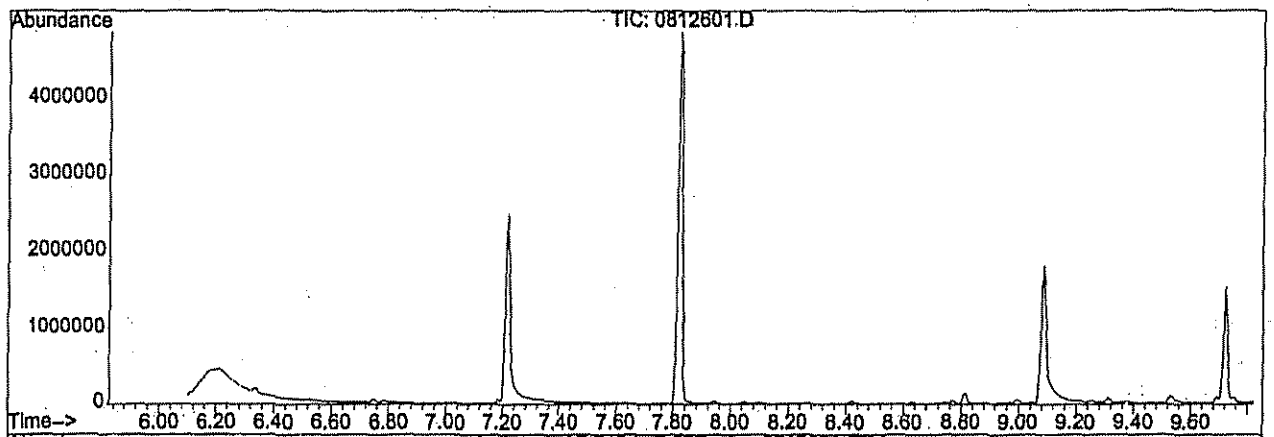
DFTPP TUNE

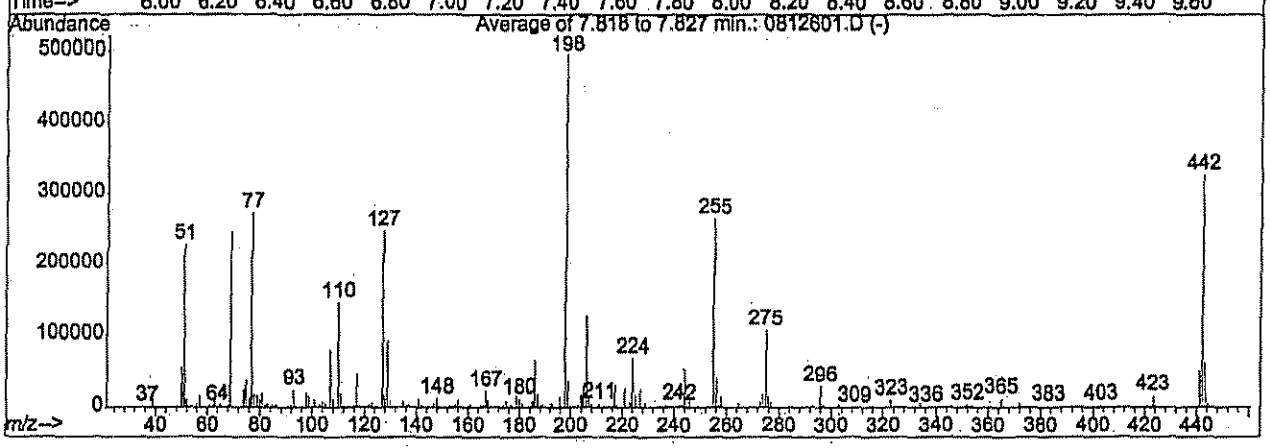
		Area
GCMS	DDT	6267740
	DDD	438115
	DDE	39658
	% Breakdown =	**7.08%**

Date: 08/04/05
Instrument: MSD7
File: 0804701.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6081205\0812601.D Vial: 1
Acq On : 12 Aug 2005 7:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :





AutoFind: Scans 359, 360, 361; Background Corrected with Scan 352

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	227422	PASS
68	69	0.00	2	0.9	2158	PASS
69	198	0.00	100	49.7	246528	PASS
70	69	0.00	2	0.5	1253	PASS
127	198	40	60	49.8	246964	PASS
197	198	0.00	1	0.3	1622	PASS
198	198	100	100	100.0	496405	PASS
199	198	5	9	7.0	34992	PASS
275	198	10	30	21.5	106781	PASS
365	198	1	100	2.2	11091	PASS
441	443	0.01	100	81.7	50347	PASS
442	198	40	100	65.8	326763	PASS
443	442	17	23	18.9	61605	PASS

0812601.D DFTPP.M Fri Aug 12 08:09:29 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6081205\0812601.D Vial: 1
Acq On : 12 Aug 2005 7:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 12 8:33 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :
Last Update : Wed Aug 03 09:55:38 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6080305\0803601.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	7.22	TIC	3384502	2.11	100
2) Benzidine	9.09	TIC	2836912	3.12	100
3) DDT	10.09	TIC	4613827	8.63	100
4) DDD	9.72	TIC	1087647m	211.64	
5) DDE	9.31	TIC	58641m	3.03	

(#) = qualifier out of range (m) = manual integration
0812601.D DFTPP.M Fri Aug 12 08:33:37 2005 ENV Page 1

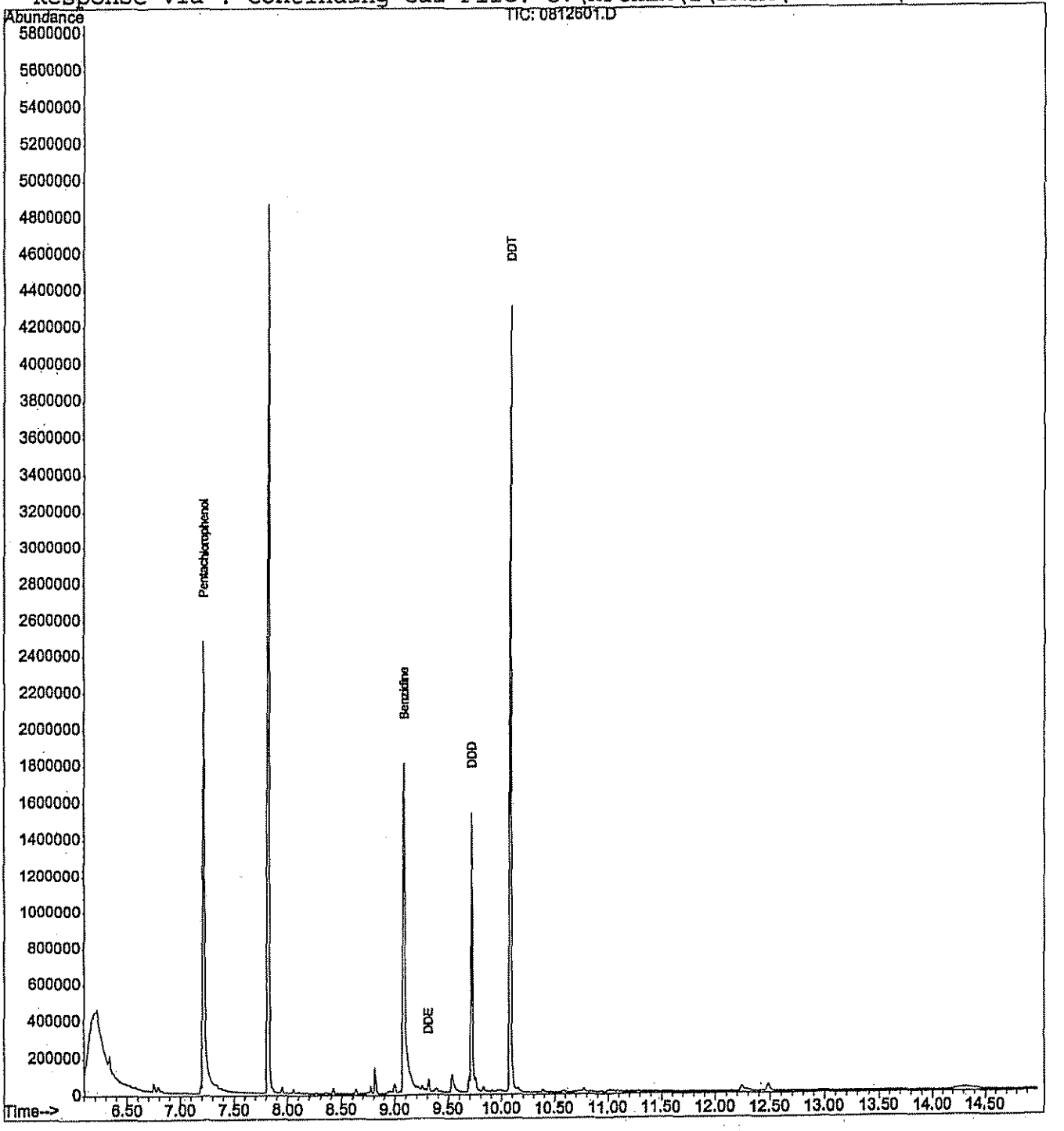
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6081205\0812601.D
Acq On : 12 Aug 2005 7:54 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 12 8:33 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: DFTPP.RES

Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :
Last Update : Wed Aug 03 09:55:38 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6080305\0803601.D

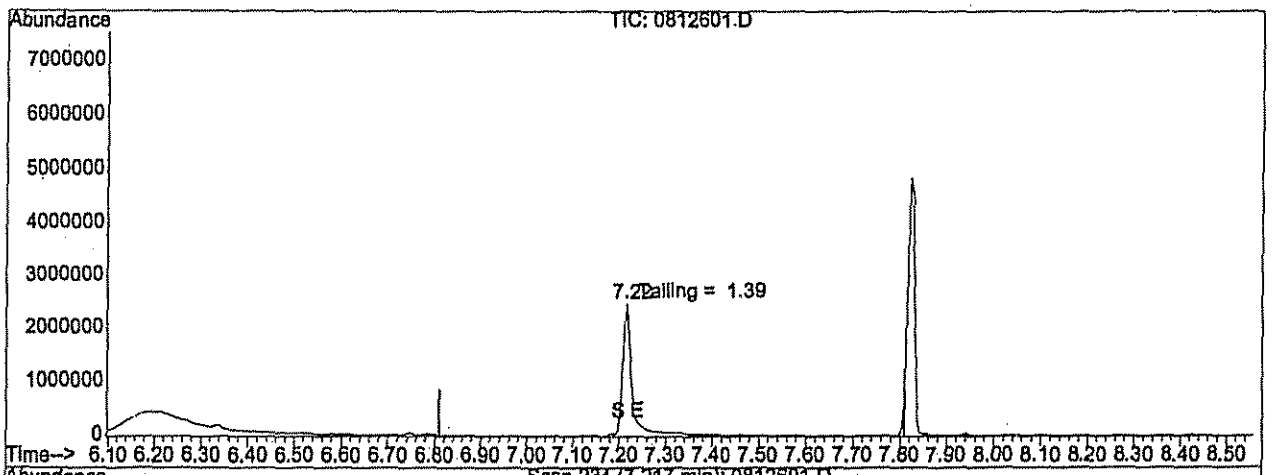


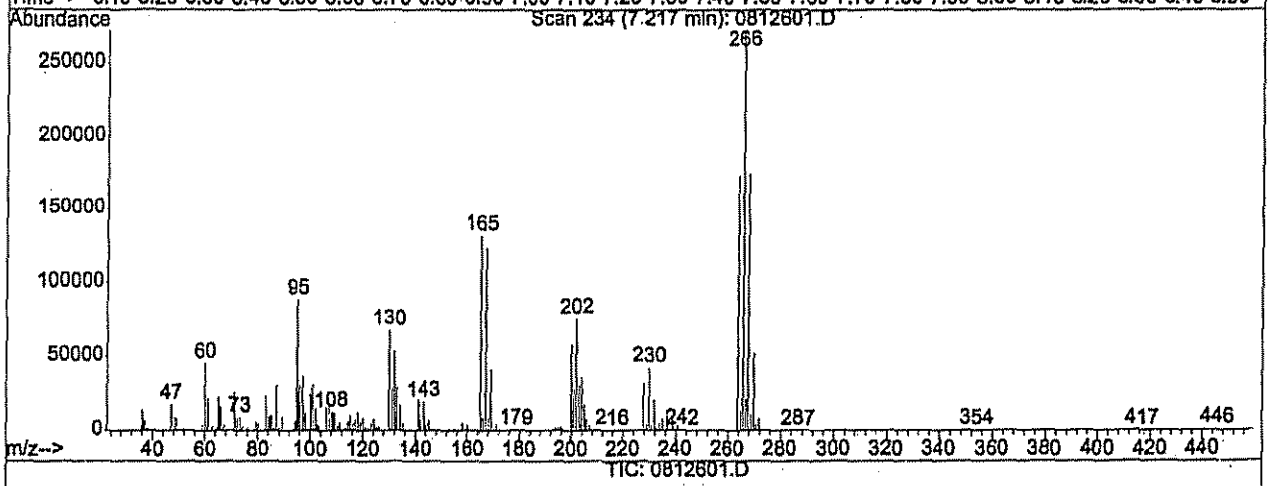
0812601.D DFTPP.M Fri Aug 12 08:33:38 2005 ENV Page 2

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812601.D Vial: 1
Acq On : 12 Aug 2005 7:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 12 8:33 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :
Last Update : Wed Aug 03 09:55:38 2005
Response via : Single Level Calibration





TIC: 0812601.D

(1) Pentachlorophenol

7.22min 2.11

response 3384502

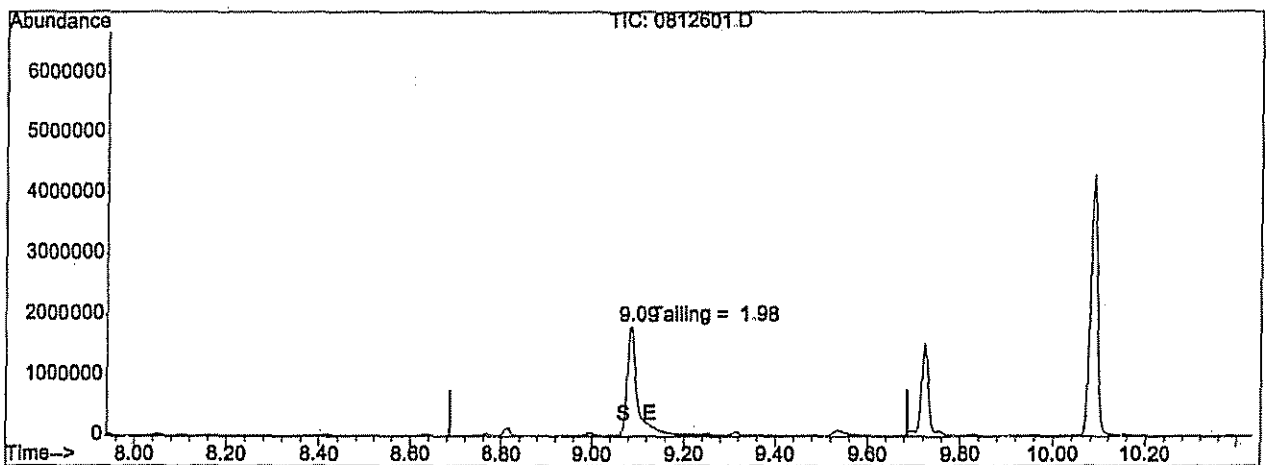
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

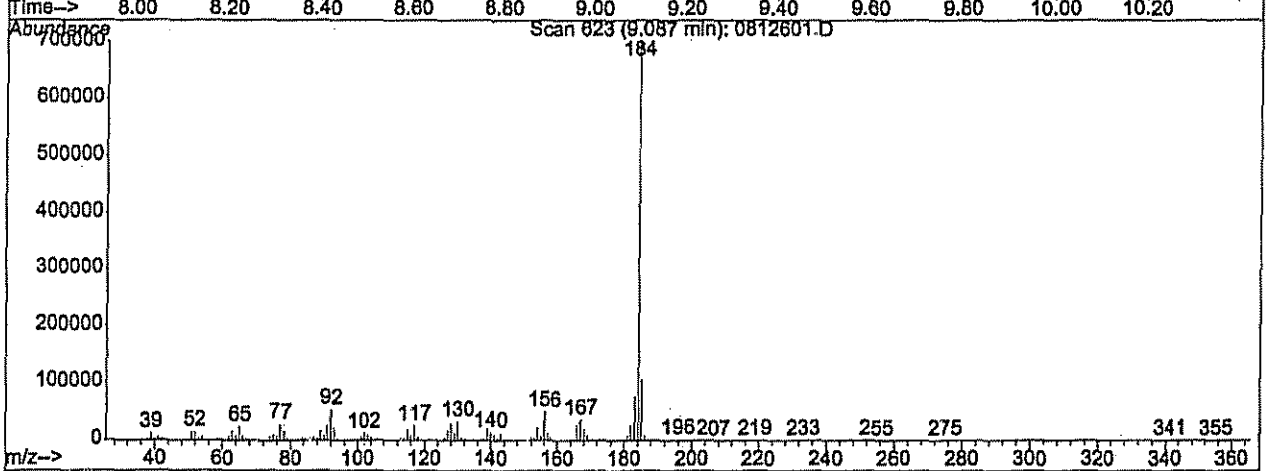
0812601.D DFTPP.M Fri Aug 12 08:34:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812601.D Vial: 1
Acq On : 12 Aug 2005 7:54 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 12 8:33 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :
Last Update : Wed Aug 03 09:55:38 2005
Response via : Single Level Calibration





TIC: 0812601.D

(2) Benzidine

9.09min 3.12

response 2836912

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0812601.D DFTPP.M Fri Aug 12 08:34:31 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	4613827
	DDD	1087647
	DDE	58641
	% Breakdown =	**19.90%**

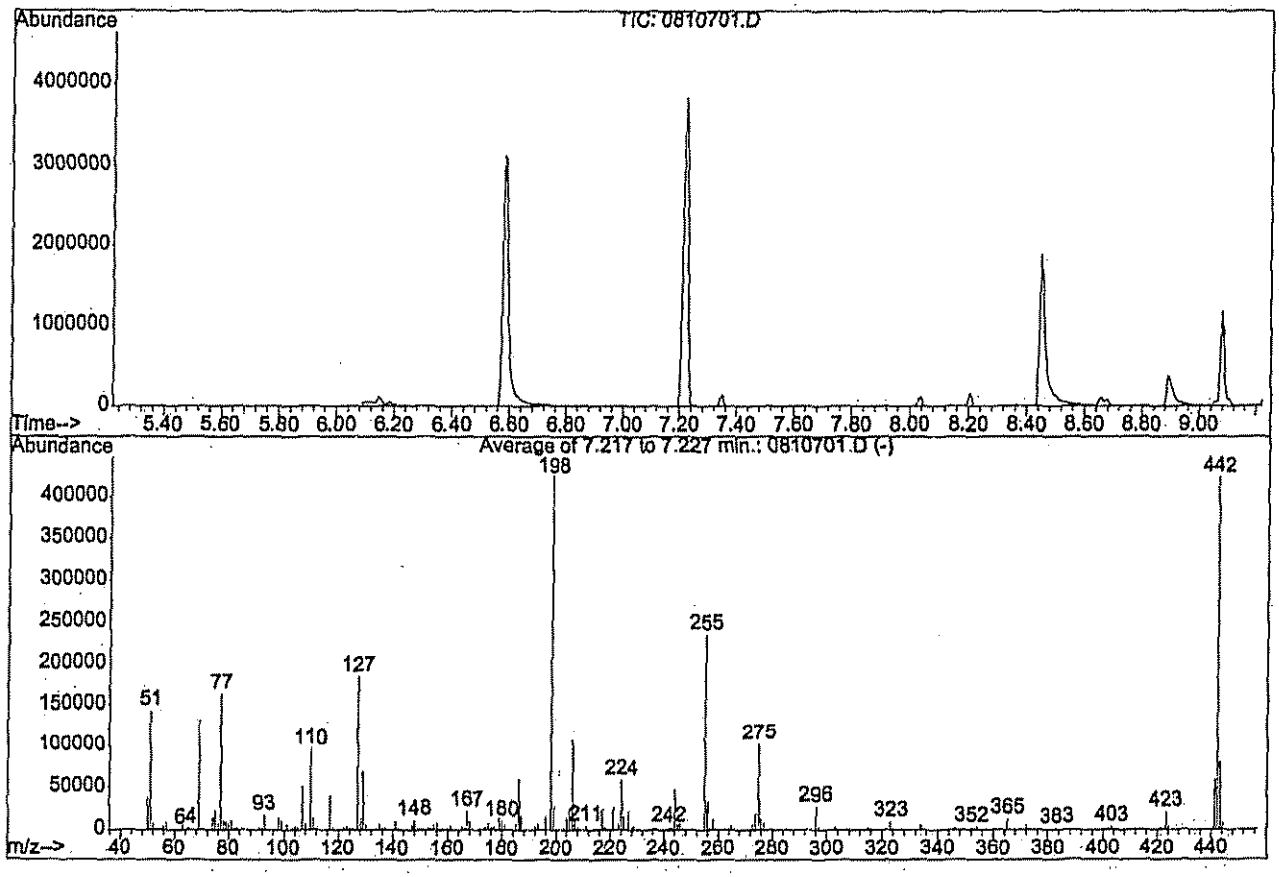
Date: 08/12/05

Instrument: MSD6

File: 0812601.d

DFTPP

Data File : C:\MSDCHEM\1\DATA\7081005\0810701.D Vial: 1
Acq On : 10 Aug 2005 10:41 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7081005\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 239, 240, 241; Background Corrected with Scan 232

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.6	143005	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.8	131082	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.4	184725	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	425941	PASS
199	198	5	9	6.6	28152	PASS
275	198	10	30	24.2	102882	PASS
365	198	1	100	3.0	12568	PASS
441	443	0.01	100	72.6	58733	PASS
442	198	40	100	99.4	423210	PASS
443	442	17	23	19.1	80928	PASS

0810701.D DFTPP.M Wed Aug 10 10:57:09 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810701.D Vial: 1
Acq On : 10 Aug 2005 10:41 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:20:16 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	6.58	TIC	4399963	11.35	100
2) Benzidine	8.45	TIC	2930687m	6.90	
3) DDT	9.44	TIC	5633737	11.07	100
4) DDD	9.08	TIC	1029739m	27.62	
5) DDE	8.67	TIC	51740m	12.74	

(#) = qualifier out of range (m) = manual integration
0810701.D DFTPP.M Wed Aug 10 11:20:58 2005 ENV Page 1

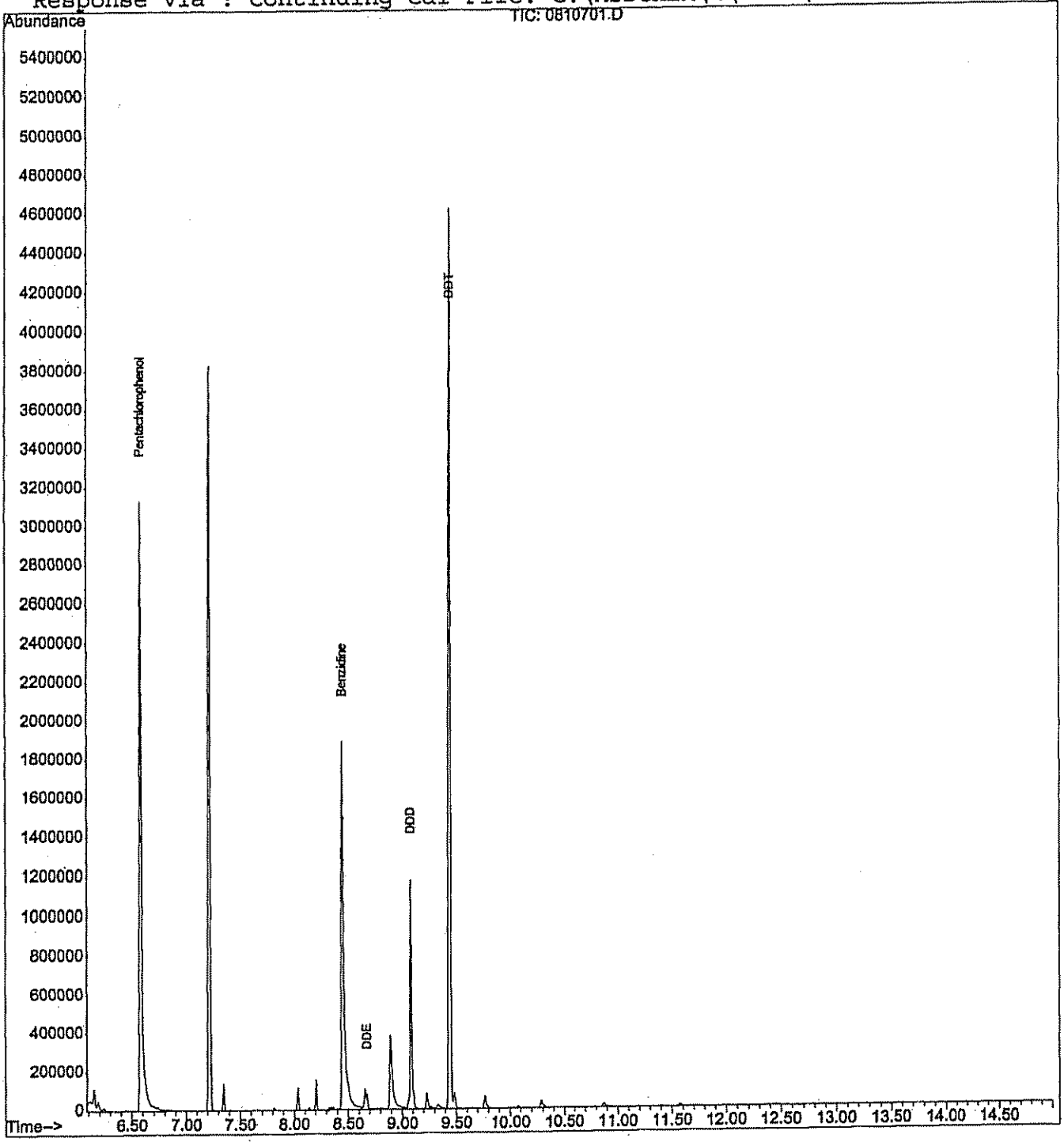
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810701.D
Acq On : 10 Aug 2005 10:41 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 10 11:20 2005

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: DFTPP.RES

Method : C:\MSDCHEM\1\DATA\7081005\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D

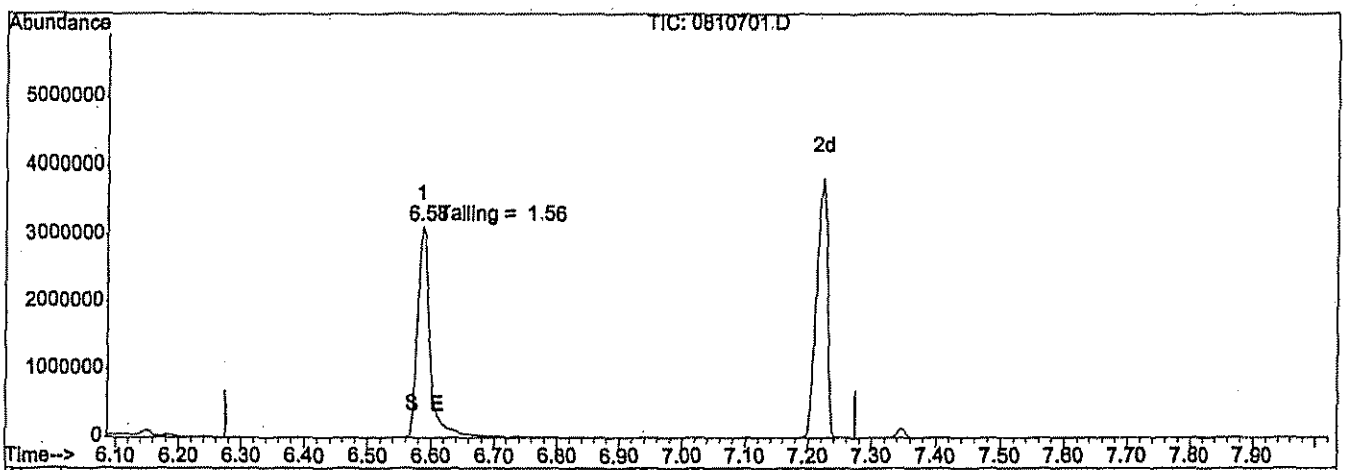


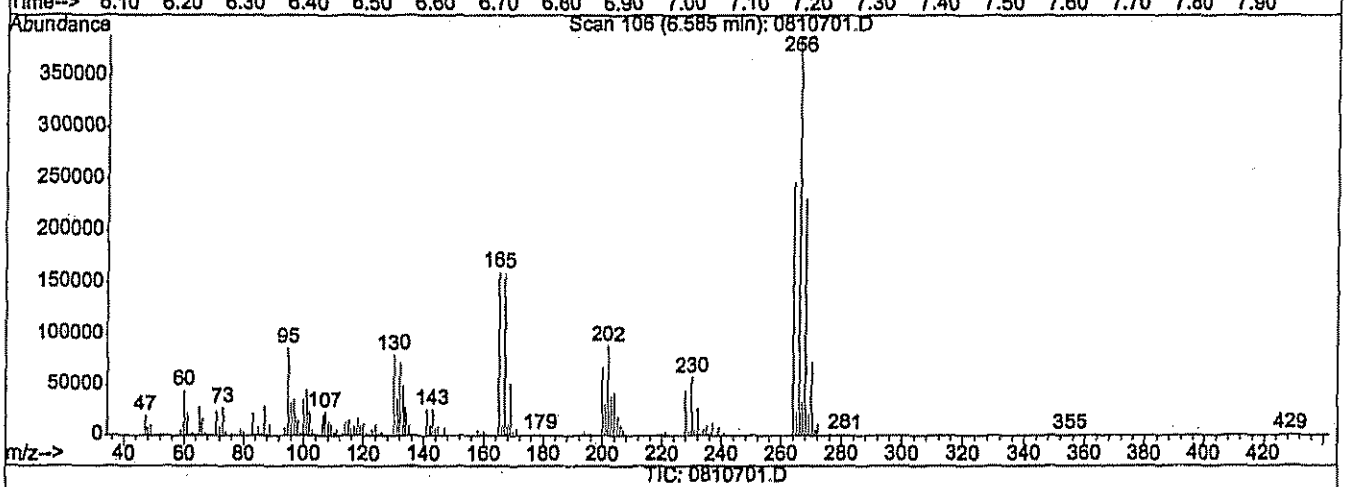
0810701.D DFTPP.M Wed Aug 10 11:20:58 2005 ENV Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810701.D Vial: 1
Acq On : 10 Aug 2005 10:41 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





TIC: 0810701.D

(1) Pentachlorophenol

6.58min 11.35

response 4399963

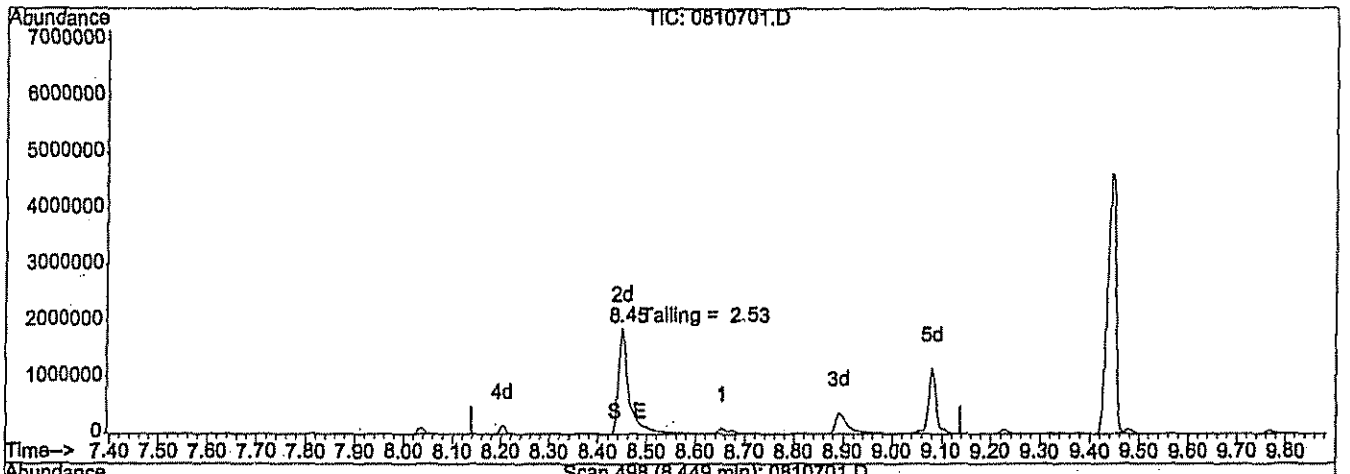
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

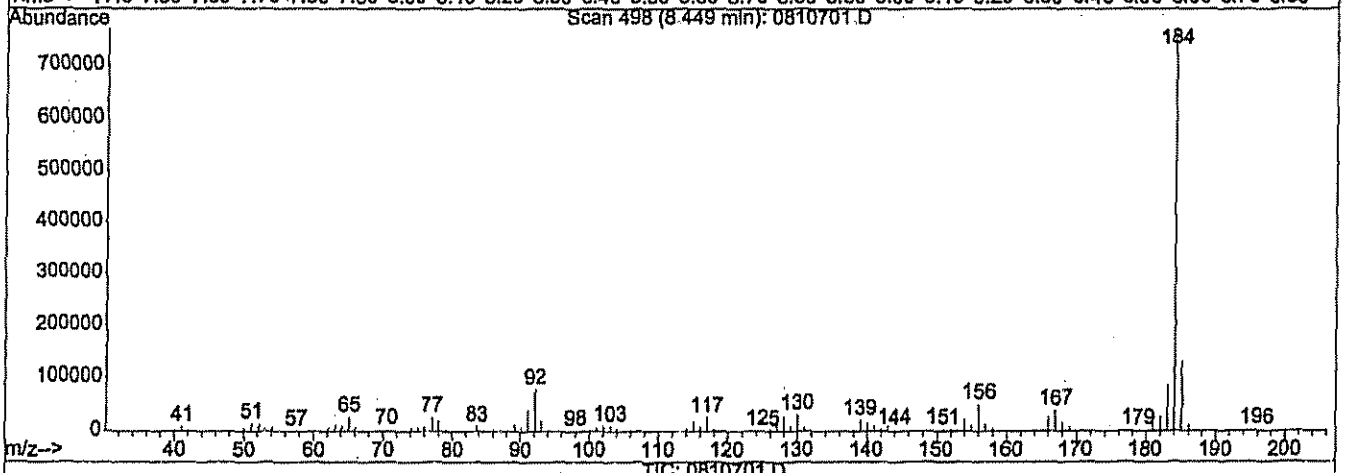
0810701.D DFTPP.M Wed Aug 10 11:24:04 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810701.D Vial: 1
Acq On : 10 Aug 2005 10:41 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





(2) Benzidine

8.45min 6.90 m

response 2930687

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0810701.D DFTPP.M Wed Aug 10 11:24:12 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	5633737
	DDD	1029739
	DDE	51740
	% Breakdown =	**16.10%**

Date: 08/10/05
Instrument: MSD7
File: 0810701.d

625-BN Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD6
Method ; 8270.M
Matrix ; NA
Cal. Date ; 21 Jul 2005 1:16 pm
Last Modified ; Thu Jul 21 13:47:19 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\HPCHEM\1\DATA\6072105\0721609.D
24 ; C:\HPCHEM\1\DATA\6072105\0721608.D
12 ; C:\HPCHEM\1\DATA\6072105\0721607.D
8 ; C:\HPCHEM\1\DATA\6072105\0721606.D
6 ; C:\HPCHEM\1\DATA\6072105\0721605.D
4 ; C:\HPCHEM\1\DATA\6072105\0721604.D
2 ; C:\HPCHEM\1\DATA\6072105\0721603.D
1 ; C:\HPCHEM\1\DATA\6072105\0721602.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	48.0	24.0	12.0	8.0	6.0	4.0	2.0	1.0		
Pyridine		1.078	0.948	1.059	0.949	0.956	0.573	0.743	0.901	20.092
N-Nitrosodimethylamine	0.648	0.688	0.696	0.628	0.671	0.661	0.585	0.662	0.655	5.409
Phenol	1.600	1.765	1.723	1.750	1.848	1.798	1.838	1.912	1.779	5.311
Bis(2-chloroethyl)ether	1.332	1.467	1.506	1.365	1.382	1.350	1.352	1.513	1.409	5.300
2-Chlorophenol	1.263	1.339	1.332	1.307	1.406	1.361	1.408	1.449	1.358	4.482
Benzyl Alcohol	0.922	0.969	0.953	0.912	0.977	0.934	0.947	1.013	0.953	3.425
1,3-Dichlorobenzene	1.243	1.297	1.310	1.289	1.347	1.339	1.352	1.392	1.321	3.475
1,4-Dichlorobenzene	1.278	1.336	1.325	1.317	1.385	1.389	1.363	1.409	1.350	3.255
1,2-Dichlorobenzene	1.128	1.186	1.191	1.189	1.263	1.252	1.296	1.308	1.227	5.122
2-Methylphenol	1.035	1.103	1.084	1.071	1.146	1.122	1.136	1.224	1.115	5.121
3-, 4-Methylphenol	1.530	1.628	1.581	1.559	1.639	1.615	1.638	1.789	1.622	4.814
Bis(2-chloroisopropyl)ether	1.476	1.603	1.588	1.554	1.653	1.650	1.628	1.760	1.614	5.128
N-Nitrosodi-n-propylamine	0.798	0.860	0.828	0.794	0.879	0.835	0.875	0.910	0.847	4.823
Hexachloroethane	0.505	0.535	0.519	0.502	0.530	0.513	0.523	0.583	0.526	4.833
2-Fluorophenol (surr)	0.994	1.046	1.038	1.017	1.015	1.014	0.989	0.972	1.011	2.430
Phenol-d6 (surr)	1.501	1.606	1.581	1.561	1.631	1.576	1.616	1.718	1.599	3.923
Nitrobenzene	0.356	0.375	0.382	0.357	0.393	0.377	0.370	0.408	0.377	4.700
Isophorone	0.531	0.560	0.573	0.540	0.589	0.564	0.570	0.613	0.568	4.583
2-Nitrophenol	0.165	0.175	0.179	0.170	0.189	0.196	0.202	0.207	0.185	8.454
2,4-Dimethylphenol	0.249	0.257	0.264	0.255	0.263	0.260	0.259	0.285	0.262	3.981
Benzoic Acid		0.179	0.171	0.146	0.148	0.137	0.117	0.166	0.152	14.177
Bis(2-chloroethoxy)methane	0.350	0.361	0.374	0.357	0.393	0.386	0.386	0.422	0.379	6.198
2,4-Dichlorophenol	0.257	0.266	0.277	0.260	0.289	0.271	0.269	0.304	0.274	5.749
1,2,4-Trichlorobenzene	0.261	0.271	0.281	0.271	0.295	0.283	0.303	0.323	0.286	7.071
Naphthalene	0.812	0.837	0.866	0.826	0.910	0.880	0.904	0.954	0.874	5.525
4-Chloroaniline	0.141	0.146	0.101	0.110		0.142	0.184	0.167	0.142	20.548
Hexachlorobutadiene	0.162	0.171	0.180	0.164	0.184	0.184	0.175	0.192	0.176	5.957
4-Chloro-3-methylphenol	0.312	0.326	0.326	0.300	0.328	0.314	0.310	0.347	0.320	4.485
2-Methylnaphthalene	0.602	0.612	0.630	0.601	0.656	0.644	0.644	0.700	0.636	5.204
Nitrobenzene-d5 (surr)	0.132	0.138	0.142	0.132	0.149	0.141	0.140	0.152	0.141	5.129
Hexachlorocyclopentadiene	0.129	0.106	0.118	0.091	0.111	0.098	0.088	0.148	0.111	18.228
2,4,6-Trichlorophenol	0.347	0.348	0.362	0.341	0.374	0.358	0.347	0.405	0.360	5.856
2,4,5-Trichlorophenol	0.356	0.356	0.373	0.340	0.375	0.364	0.354	0.405	0.365	5.332
2-Chloronaphthalene	0.925	0.932	0.998	0.929	1.011	0.982	1.023	1.114	0.989	6.445
2-Nitroaniline	0.331	0.342	0.334	0.312	0.350	0.333	0.329	0.365	0.337	4.688
3-Nitroaniline	0.087	0.051	0.037	0.040		0.063	0.069	0.097	0.063	35.837
1-Methylnaphthalene	0.923	0.918	0.981	0.938	1.019	0.981	1.012	1.098	0.984	6.116
Dimethylphthalate	1.083	1.092	1.147	1.085	1.187	1.131	1.142	1.283	1.144	5.841
Acenaphthylene	1.009	1.207	1.292	1.246	1.350	1.318	1.357	1.517	1.287	11.289
2,6-Dinitrotoluene	0.241	0.245	0.254	0.236	0.253	0.237	0.226	0.278	0.246	6.446
Acenaphthene	0.843	0.841	0.877	0.835	0.912	0.891	0.896	0.976	0.884	5.303
2,4-Dinitrophenol	0.135	0.126	0.132	0.112	0.113	0.103	0.080	0.115	0.115	15.176
4-Nitrophenol	0.165	0.155	0.156	0.132	0.147	0.136	0.115	0.158	0.146	11.424
Dibenzofuran	1.353	1.356	1.420	1.340	1.457	1.429	1.455	1.593	1.425	5.783
2,4-Dinitrotoluene	0.303	0.298	0.304	0.289	0.303	0.311	0.280	0.347	0.304	6.467
Fluorene	1.019	1.011	1.068	0.994	1.101	1.073	1.053	1.128	1.056	4.369
Diethylphthalate	0.991	1.006	1.067	0.993	1.087	1.057	1.032	1.138	1.046	4.908
4-Chlorophenyl phenyl ether	0.512	0.517	0.552	0.533	0.577	0.559	0.570	0.600	0.553	5.523
4-Nitroaniline		0.099	0.116	0.115	0.132	0.124	0.099	0.133	0.117	12.025
2-Fluorobiphenyl (surr)	1.047	1.047	1.116	1.057	1.171	1.142	1.149	1.297	1.128	7.425
2,4,6-Tribromophenol (surr)	0.126	0.119	0.125	0.114	0.115	0.113	0.111	0.119	0.118	4.649
4,6-Dinitro-2-methylphenol	0.136	0.131	0.135	0.118	0.122	0.113	0.088	0.131	0.122	13.117
Diphenylamine		0.332	0.339	0.376	0.459	0.436	0.483	0.432	0.408	14.554
4-bromophenyl phenyl ether	0.196	0.204	0.214	0.208	0.228	0.227	0.241	0.235	0.219	7.316
Hexachlorobenzene	0.192	0.199	0.207	0.202	0.225	0.209	0.212	0.231	0.210	6.256
Pentachlorophenol	0.144	0.142	0.148	0.135	0.144	0.135	0.112	0.148	0.139	8.511
Phenanthrene	0.918	0.947	0.981	0.954	1.038	1.006	1.026	1.093	0.995	5.708

Carbazole				0.351	0.429	0.353	0.510	0.377	0.404	16.543
Anthracene	0.856	0.875	0.914	0.879	0.971	0.910	0.938	1.026	0.921	6.071
Azobenzene	0.781	0.830	0.857	0.820	0.910	0.876	0.907	0.937	0.865	6.107
Di-n-Butylphthalate	1.108	1.142	1.187	1.175	1.253	1.217	1.269	1.338	1.211	6.126
Fluoranthene	0.976	0.971	1.026	0.959	1.059	1.000	1.005	1.059	1.007	3.841
alpha-BHC	0.134	0.148	0.157	0.152		0.159	0.165	0.180	0.156	9.112
beta-BHC	0.115	0.120	0.128	0.120		0.128	0.124	0.133	0.124	4.940
gamma-BHC	0.118	0.125	0.131	0.126		0.130	0.124	0.144	0.128	6.426
delta-BHC	0.108	0.113	0.118	0.114		0.114	0.114	0.127	0.116	5.252
Heptachlor	0.141	0.150	0.151	0.146		0.146	0.148	0.166	0.150	5.262
Aldrin	0.144	0.153	0.158	0.159		0.163	0.169	0.177	0.160	6.625
Heptachlor Epoxide	0.054	0.053	0.057	0.055		0.055	0.055	0.054	0.055	2.196
Endosulfan I	0.034	0.039	0.042	0.043		0.041	0.043	0.042	0.040	7.616
4,4'-DDE	0.226	0.228	0.240	0.228		0.235	0.224	0.255	0.234	4.580
Dieldrin	0.184	0.190	0.201	0.198		0.198	0.215	0.213	0.200	5.672
Endrin	0.037	0.038	0.036	0.032		0.032	0.028	0.037	0.034	10.283
Endosulfan II	Not Calibrated									
4,4'-DDD	0.367	0.397	0.425	0.402		0.421	0.420	0.450	0.412	6.376
Endosulfan Sulfate	0.037	0.052	0.054	0.052		0.052	0.050	0.060	0.051	13.251
4,4'-DDT	0.290	0.321	0.320	0.301		0.312	0.303	0.377	0.318	8.987
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.037	0.043	0.047	0.044		0.044	0.038	0.045	0.042	8.879
Methoxychlor	0.561	0.669	0.722	0.695		0.676	0.665	0.807	0.685	10.721
Pyrene	1.557	1.410	1.357	1.304	1.436	1.442	1.460	1.501	1.433	5.510
Butylbenzylphthalate	0.684	0.717	0.695	0.658	0.722	0.682	0.697	0.745	0.700	3.909
Benzo[a]anthracene	1.236	1.249	1.258	1.204	1.306	1.255	1.235	1.349	1.261	3.606
3,3'-Dichlorobenzidine	0.196	0.186	0.172	0.182	0.210	0.190	0.204	0.200	0.193	6.465
Chrysene	1.008	1.028	1.045	1.016	1.081	1.040	1.034	1.097	1.044	2.944
Bis(2-ethylhexyl)phthalate	0.885	0.929	0.910	0.875	0.972	0.936	0.977	1.000	0.935	4.810
4-Terphenyl-d14 (surr)	1.096	0.991	0.949	0.906	0.981	0.984	0.977	1.040	0.991	5.763
Di-n-octylphthalate	2.234	2.457	2.529	2.224	2.371	2.184	2.209	2.363	2.322	5.506
Benzo[b]fluoranthene	1.334	1.374	1.434	1.300	1.403	1.342	1.296	1.359	1.355	3.538
Benzo[k]fluoranthene	1.141	1.287	1.375	1.260	1.356	1.278	1.239	1.335	1.284	5.838
Benzo[a]pyrene	1.023	1.078	1.099	0.984	1.080	1.009	1.019	1.076	1.046	4.023
Indeno(1,2,3-c,d)pyrene	0.750	0.639	0.614	0.569	0.576	0.535	0.579	0.600	0.608	10.797
Dibenzo[a,h]anthracene	0.708	0.607	0.543	0.502	0.528	0.471	0.492	0.560	0.551	13.807
Benzo[g,h,i]perylene	0.752	0.656	0.645	0.612	0.637	0.564	0.618	0.629	0.639	8.375

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	466977	4.00	ug/mL	-0.14
18) Naphthalene-D8	8.95	136	1899395	4.00	ug/mL	-0.14
33) Acenaphthene-d10	11.73	164	1109965	4.00	ug/mL	-0.15
55) Phenanthrene-D10	14.12	188	1576803	4.00	ug/mL	-0.16
85) Chrysene-D12	18.36	240	1112033	4.00	ug/mL	-0.17
93) Perylene-D12	20.64	264	794965	4.00	ug/mL	-0.23
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	113527	0.96	ug/mL	-0.15
Spiked Amount 10.000			Recovery	=	9.60%	
17) Phenol-d6 (surr)	6.51	99	200613	1.08	ug/mL	-0.15
Spiked Amount 10.000			Recovery	=	10.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	72373	1.07	ug/mL	-0.15
Spiked Amount 10.000			Recovery	=	10.70%	
53) 2-Fluorobiphenyl (surr)	10.68	172	359779	1.16	ug/mL	-0.15
Spiked Amount 10.000			Recovery	=	11.60%	
54) 2,4,6-Tribromophenol (surr	13.00	330	33091	1.02	ug/mL	-0.16
Spiked Amount 10.000			Recovery	=	10.20%	
92) 4-Terphenyl-d14 (surr)	16.71	244	289214	1.04	ug/mL	-0.16
Spiked Amount 10.000			Recovery	=	10.40%	

Target Compounds						Qvalue
2) Pyridine	3.65	79	86705m	1.37	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	77258	0.99	ug/mL	95
4) Phenol	6.53	94	223228	1.06	ug/mL	93
5) Bis(2-chloroethyl)ether	6.66	93	176654	1.08	ug/mL	99
6) 2-Chlorophenol	6.72	128	169202	1.10	ug/mL	96
7) Benzyl Alcohol	7.24	108	118260	1.10	ug/mL	87
8) 1,3-Dichlorobenzene	6.93	146	162466	1.07	ug/mL	96
9) 1,4-Dichlorobenzene	7.04	146	164444	1.05	ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	152759	1.08	ug/mL	96
11) 2-Methylphenol	7.41	107	142926	1.12	ug/mL	98
12) 3-, 4-Methylphenol	7.64	107	208904	1.13	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	205525	1.07	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.65	70	106277	1.09	ug/mL	94
15) Hexachloroethane	7.77	117	68016	1.10	ug/mL	93
19) Nitrobenzene	7.88	77	193948	1.04	ug/mL	99
20) Isophorone	8.25	82	291295	1.05	ug/mL	98
21) 2-Nitrophenol	8.36	139	98468	1.13	ug/mL	92
22) 2,4-Dimethylphenol	8.46	122	135151	1.09	ug/mL	97
23) Benzoic Acid	8.58	122	79008	1.69	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	200596	1.10	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	144582	1.15 ug/mL	95
26) 1,2,4-Trichlorobenzene	8.87	180	153529	1.15 ug/mL	97
27) Naphthalene	8.97	128	453179	1.09 ug/mL	99
28) 4-Chloroaniline	9.10	127	79275	1.87 ug/mL#	94
29) Hexachlorobutadiene	9.20	225	91405	1.09 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	164717	1.11 ug/mL	95
31) 2-Methylnaphthalene	10.07	142	332631	1.13 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	41015	1.86 ug/mL	99
35) 2,4,6-Trichlorophenol	10.53	196	112468	1.14 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	112388	1.10 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	309191	1.13 ug/mL	97
38) 2-Nitroaniline	11.02	65	101330	1.00 ug/mL	95
39) 3-Nitroaniline	11.72	138	26908	0.37 ug/mL#	85
40) 1-Methylnaphthalene	10.23	142	304730	1.12 ug/mL	97
41) Dimethylphthalate	11.36	163	355917	1.10 ug/mL	98
42) Acenaphthylene	11.50	152	420824	1.18 ug/mL	98
43) 2,6-Dinitrotoluene	11.43	165	77244	1.08 ug/mL	97
44) Acenaphthene	11.78	153	270756	1.11 ug/mL	98
45) 2,4-Dinitrophenol	11.90	184	31876	0.77 ug/mL#	88
46) 4-Nitrophenol	11.98	109	43919	0.94 ug/mL	94
47) Dibenzofuran	12.08	168	442181	1.11 ug/mL	98
48) 2,4-Dinitrotoluene	12.08	165	96252	1.07 ug/mL	94
49) Fluorene	12.61	166	313059	1.06 ug/mL	97
50) Diethylphthalate	12.50	149	315868	1.05 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	166504	1.09 ug/mL	96
52) 4-Nitroaniline	12.66	138	36823	0.95 ug/mL#	87
56) 4,6-Dinitro-2-methylphenol	12.72	198	51629	0.90 ug/mL	94
57) Diphenylamine	12.83	169	170462	1.04 ug/mL	93
58) 4-bromophenyl phenyl ether	13.42	248	92717	1.16 ug/mL	98
59) Hexachlorobenzene	13.50	284	91138	1.16 ug/mL	92
60) Pentachlorophenol	13.82	266	58424	1.01 ug/mL	91
61) Phenanthrene	14.15	178	430827	1.10 ug/mL	98
62) Carbazole	14.50	167	148509	0.52 ug/mL#	92
63) Anthracene	14.22	178	404305	1.11 ug/mL	99
64) Azobenzene	12.89	77	369480	1.07 ug/mL	97
65) Di-n-Butylphthalate	15.14	149	527366	1.13 ug/mL	97
66) Fluoranthene	16.05	202	417643	1.02 ug/mL	98
67) alpha-BHC	13.43	183	70831	1.14 ug/mL	96
68) beta-BHC	13.77	181	52469	1.01 ug/mL	99
69) gamma-BHC	13.91	183	56840	1.07 ug/mL	94
70) delta-BHC	14.27	183	50175	1.00 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Initial Calibration
DataAcq Meth : 8270

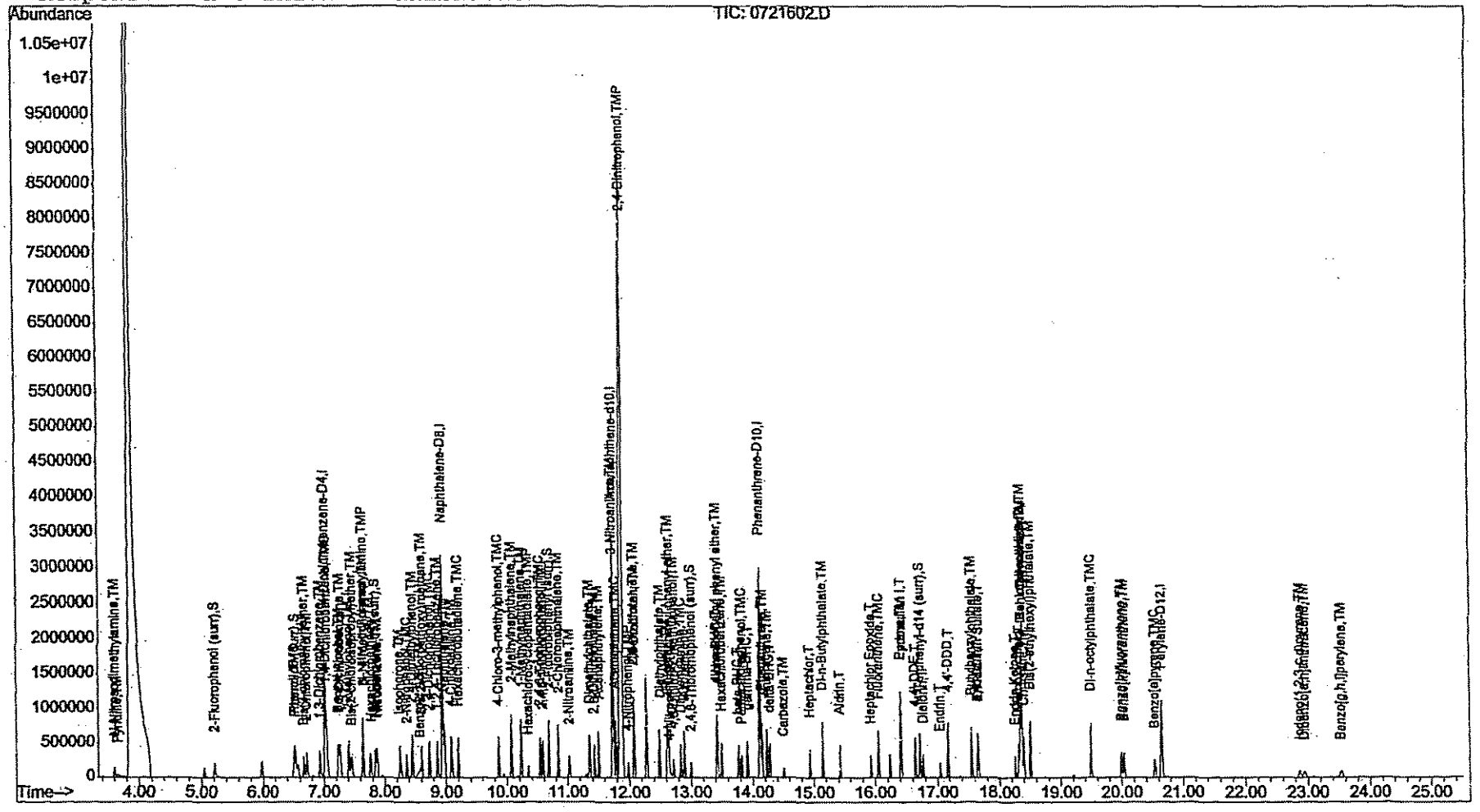
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) Heptachlor	14.93	100	65538	1.11 ug/mL	97
72) Aldrin	15.42	66	69627	1.02 ug/mL	92
73) Heptachlor Epoxide	15.93	353	21321	1.03 ug/mL	98
74) Endosulfan I	16.42	195	16419	0.96 ug/mL#	67
75) 4,4'-DDE	16.64	246	100530	1.04 ug/mL	98
76) Dieldrin	16.76	79	83921	0.96 ug/mL	99
77) Endrin	17.04	263	14470	0.96 ug/mL	98
78) Endosulfan II	0.00	30	0	N.D.	
79) 4,4'-DDD	17.17	235	177364	1.10 ug/mL#	96
80) Endosulfan Sulfate	17.64	272	23555	1.11 ug/mL	97
81) 4,4'-DDT	17.65	235	148802	1.19 ug/mL	97
82) Endrin Aldehyde	0.00	30	0	N.D.	
83) Endrin Ketone	18.26	317	17604	1.13 ug/mL	98
84) Methoxychlor	18.31	227	318092	1.29 ug/mL#	1
86) Pyrene	16.41	202	417290	1.00 ug/mL	98
87) Butylbenzylphthalate	17.54	149	207109	1.05 ug/mL	97
88) Benzo[a]anthracene	18.34	228	375040	1.25 ug/mL	97
89) 3,3'-Dichlorobenzidine	18.34	252	55497	3.07 ug/mL	94
90) Chrysene	18.40	228	304945	1.04 ug/mL	97
91) Bis(2-ethylhexyl)phthalate	18.50	149	277881	1.09 ug/mL	99
94) Di-n-octylphthalate	19.49	149	469566	1.08 ug/mL	100
95) Benzo[b]fluoranthene	19.99	252	270080	1.12 ug/mL	100
96) Benzo[k]fluoranthene	20.04	252	265271	0.98 ug/mL	97
97) Benzo[a]pyrene	20.54	252	213913	1.12 ug/mL	95
98) Indeno(1,2,3-c,d)pyrene	22.87	276	119284m	3.38 ug/mL	
99) Dibenzo[a,h]anthracene	22.95	278	111382	2.90 ug/mL	97
100) Benzo[g,h,i]perylene	23.53	276	125079	1.95 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: 8270.RES

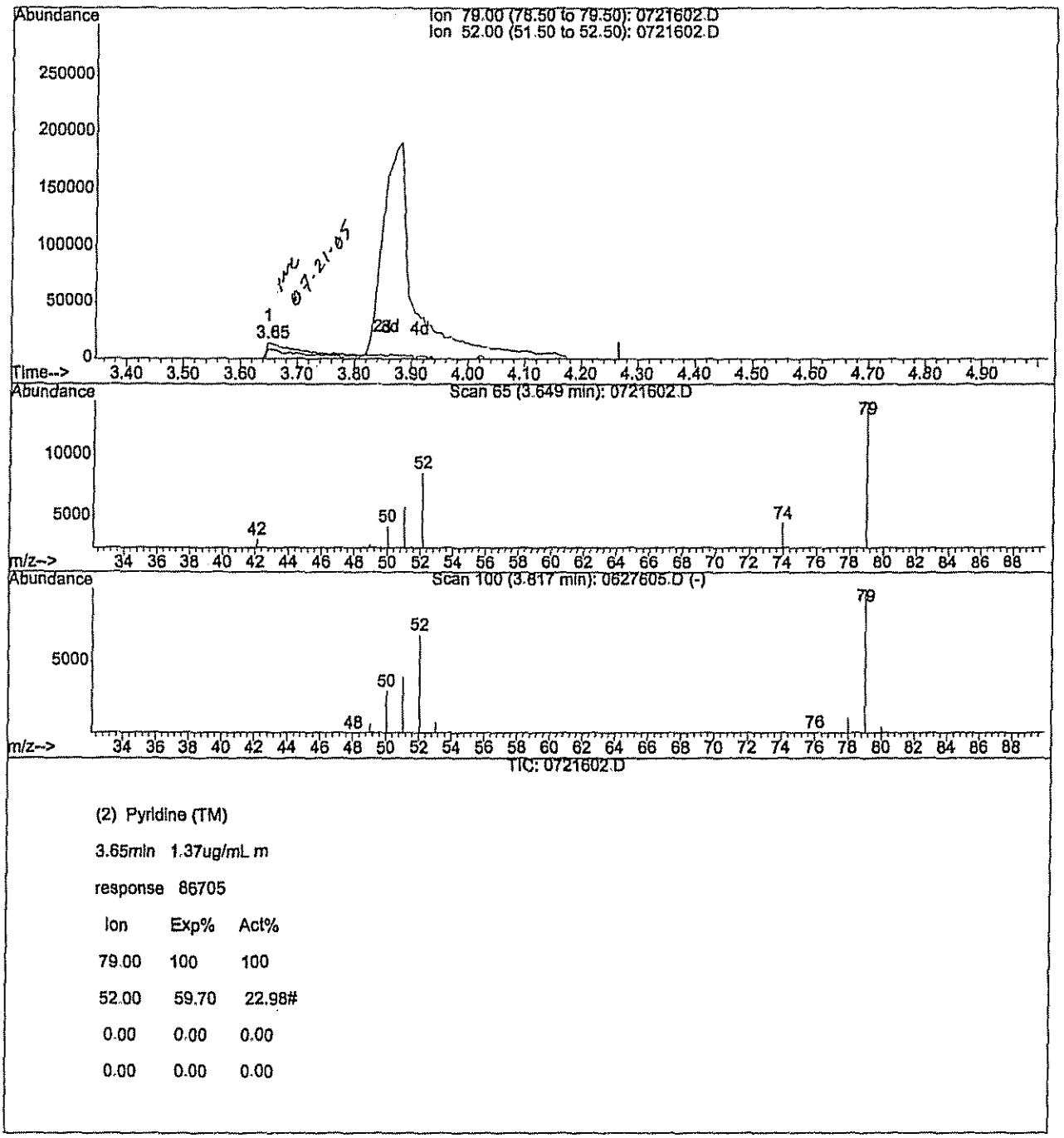
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.65min 1.37ug/mL m

response 86705

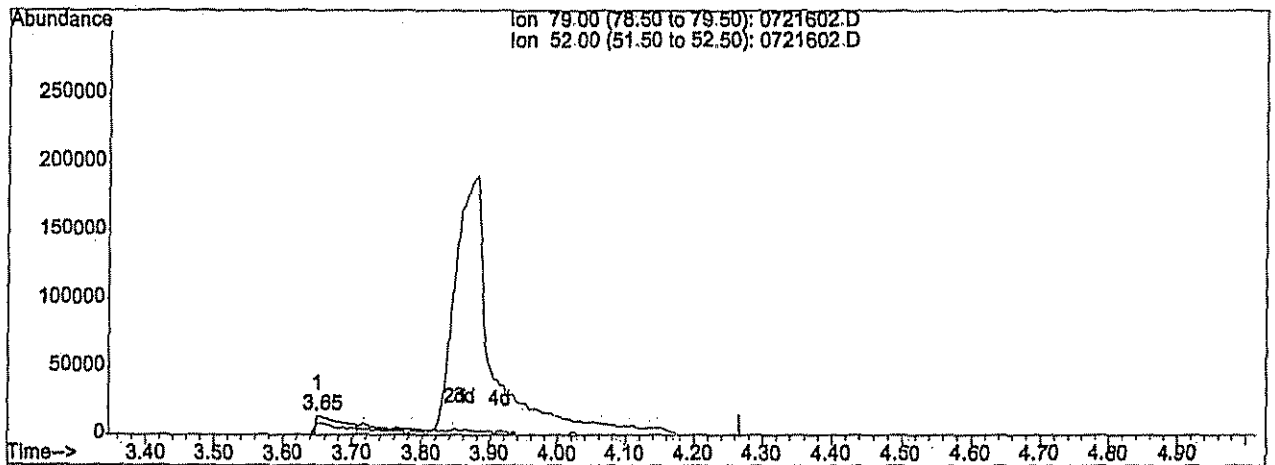
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	22.98#
0.00	0.00	0.00
0.00	0.00	0.00

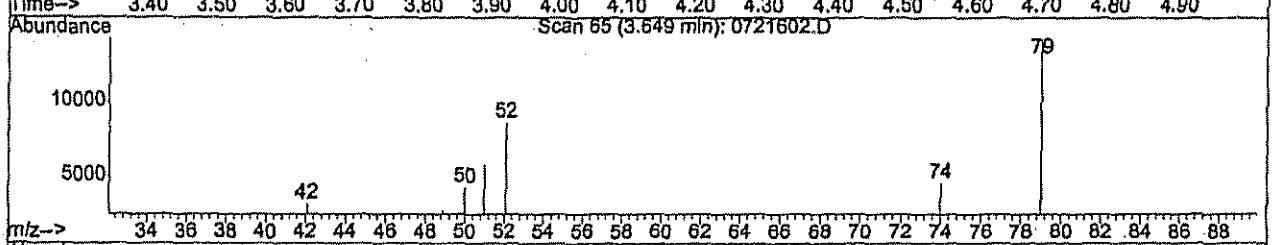
0721602.D 8270.M Thu Jul 21 11:13:51 2005 ENV

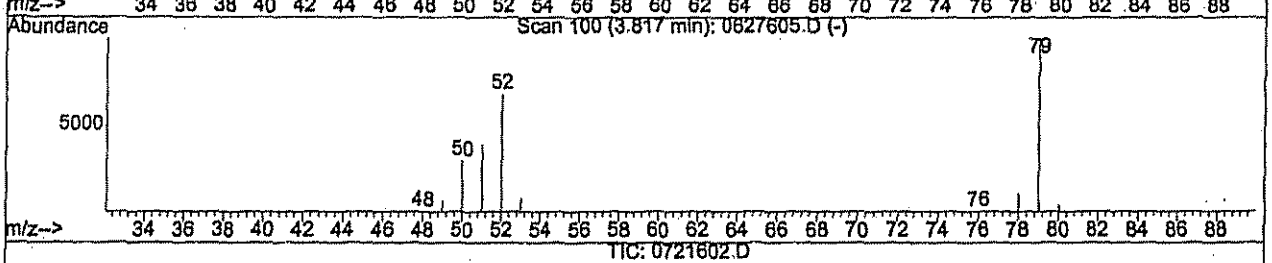
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 9:43 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration







(2) Pyridine (TM)

3.65min 0.93ug/mL

response 37944

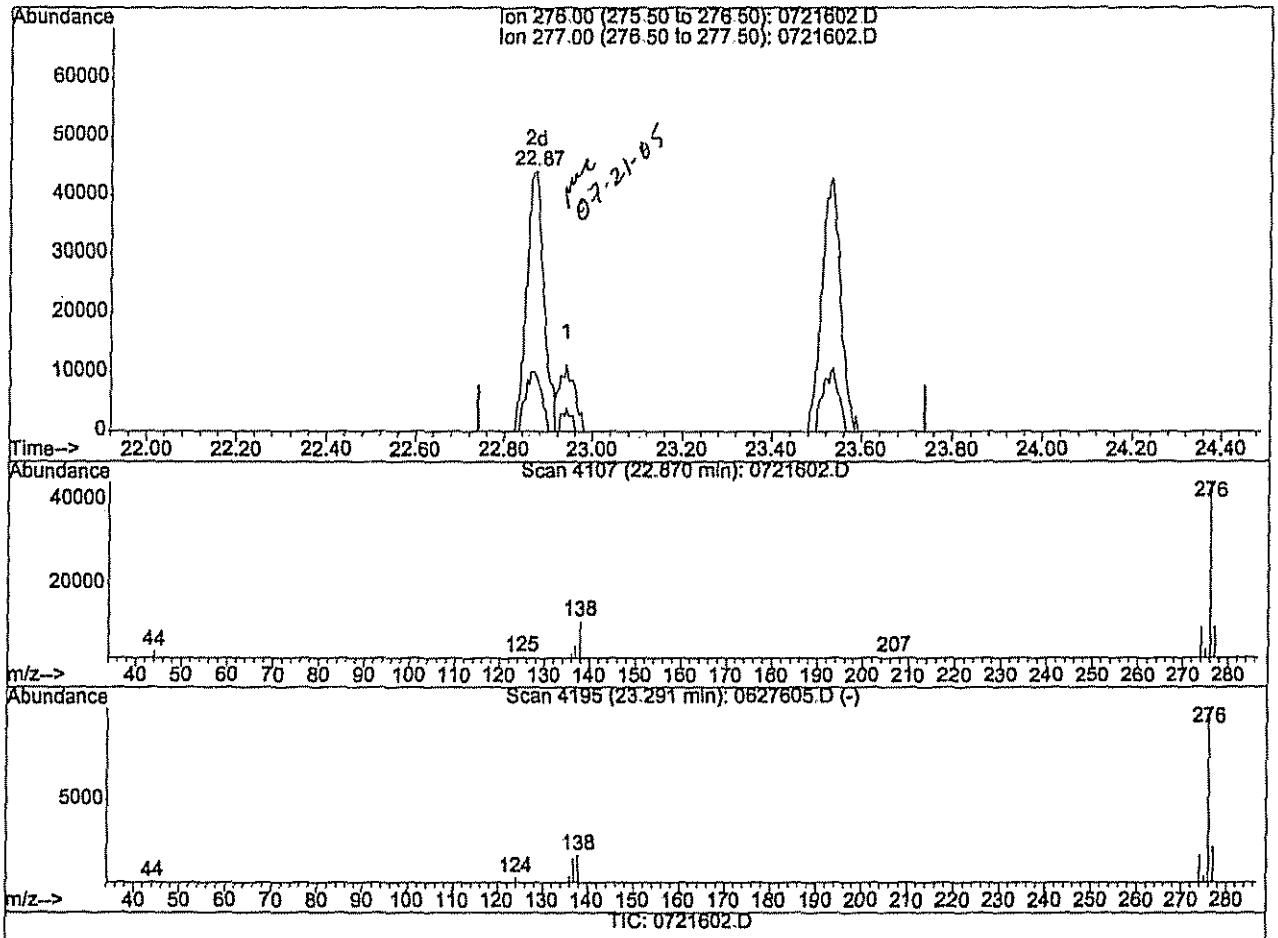
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	52.51
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:13:46 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:14 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.87min 3.38ug/mL m

response 119284

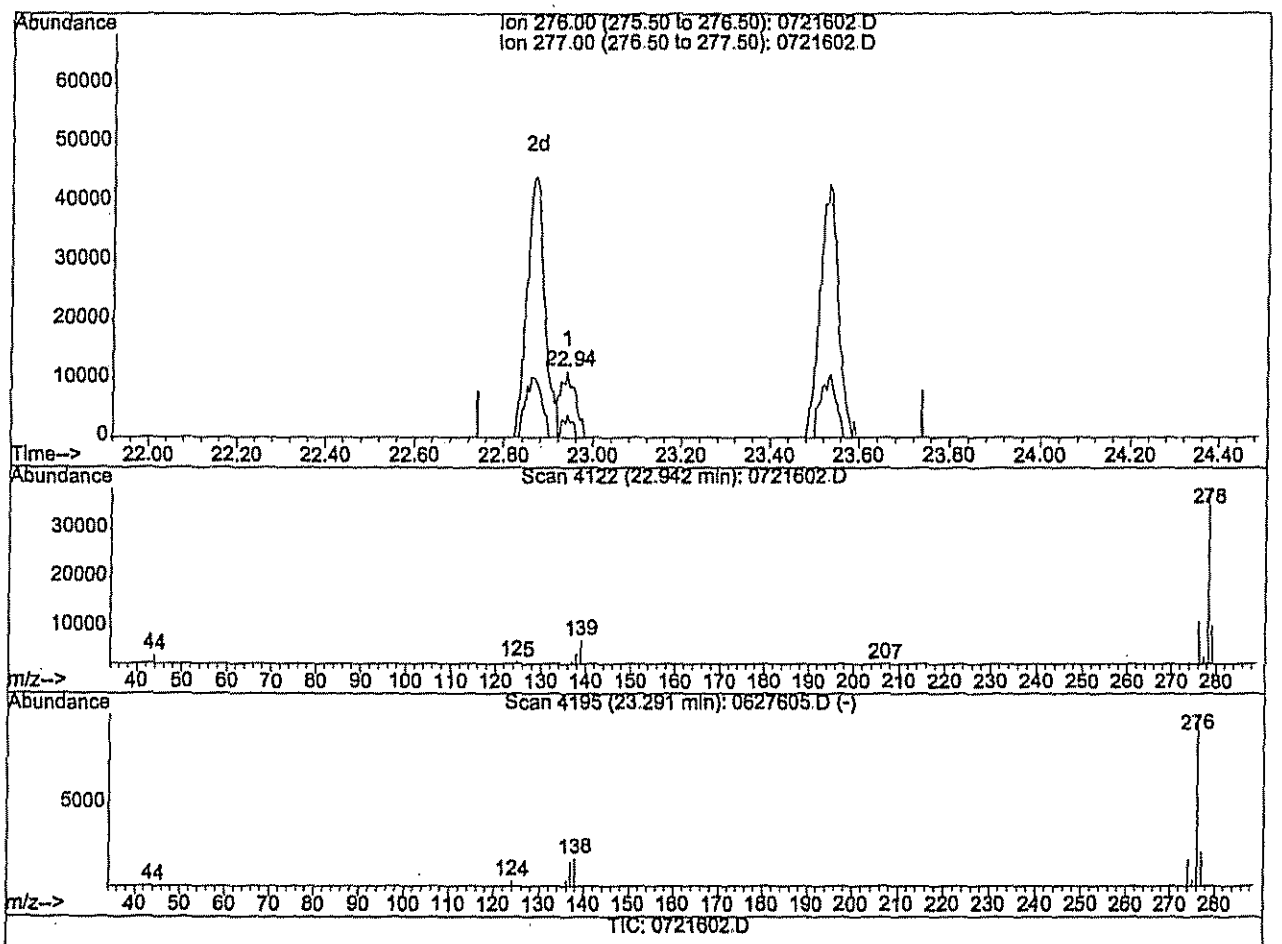
Ion	Exp%	Act%
276.00	100	100
277.00	23.60	22.10
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:14:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D Vial: 2
Acq On : 21 Jul 2005 9:18 am Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 14:19:46 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.94min 2.72ug/mL

response 25575

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	35.11#
0.00	0.00	0.00
0.00	0.00	0.00

0721602.D 8270.M Thu Jul 21 11:14:42 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	137595	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	576094	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	335187	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438153	4.00	ug/mL	0.00
85) Chrysene-D12	18.35	240	303508	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	219438	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	68061m	2.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	20.30%	
17) Phenol-d6 (surr)	6.51	99	111193	1.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	40243	1.83	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.30%	
53) 2-Fluorobiphenyl (surr)	10.68	172	192629	1.77	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	17.70%	
54) 2,4,6-Tribromophenol (surr	12.99	330	18566	1.86	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.60%	
92) 4-Terphenyl-d14 (surr)	16.71	244	148246	1.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.80%	

Target Compounds						Qvalue
2) Pyridine	3.72	79	39414m	1.54	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	40235	1.77	ug/mL	93
4) Phenol	6.53	94	126451	1.92	ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	93002	1.79	ug/mL	99
6) 2-Chlorophenol	6.72	128	96861	1.94	ug/mL	98
7) Benzyl Alcohol	7.24	108	65176	1.87	ug/mL	89
8) 1,3-Dichlorobenzene	6.93	146	93006	1.94	ug/mL	95
9) 1,4-Dichlorobenzene	7.04	146	93767	1.94	ug/mL	94
10) 1,2-Dichlorobenzene	7.27	146	89177	1.98	ug/mL	99
11) 2-Methylphenol	7.41	107	78152	1.86	ug/mL	92
12) 3-, 4-Methylphenol	7.64	107	112715	1.83	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.46	45	112011	1.85	ug/mL#	97
14) N-Nitrosodi-n-propylamine	7.65	70	60174	1.92	ug/mL	98
15) Hexachloroethane	7.77	117	36008	1.80	ug/mL	90
19) Nitrobenzene	7.88	77	106445	1.81	ug/mL	96
20) Isophorone	8.25	82	164123	1.86	ug/mL	99
21) 2-Nitrophenol	8.37	139	58235	1.95	ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	74504	1.82	ug/mL	98
23) Benzoic Acid	8.56	122	33684	1.41	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	111285	1.83	ug/mL	96

(#) = qualifier out of range (m) = manual integration
0721603.D 8270.M Thu Jul 21 14:10:13 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.73	162	77602	1.77	ug/mL	94
26)	1,2,4-Trichlorobenzene	8.86	180	87264	1.87	ug/mL	88
27)	Naphthalene	8.97	128	260382	1.89	ug/mL	99
28)	4-Chloroaniline	9.08	127	52995	2.20	ug/mL	99
29)	Hexachlorobutadiene	9.20	225	50458	1.82	ug/mL	96
30)	4-Chloro-3-methylphenol	9.86	107	89230	1.79	ug/mL	98
31)	2-Methylnaphthalene	10.07	142	185491	1.84	ug/mL	97
34)	Hexachlorocyclopentadiene	10.34	237	14689	1.19	ug/mL#	77
35)	2,4,6-Trichlorophenol	10.53	196	58153	1.71	ug/mL	98
36)	2,4,5-Trichlorophenol	10.58	196	59288	1.75	ug/mL	99
37)	2-Chloronaphthalene	10.84	162	171426	1.84	ug/mL	99
38)	2-Nitroaniline	11.02	65	55097	1.80	ug/mL	92
39)	3-Nitroaniline	11.68	138	11590	1.43	ug/mL#	70
40)	1-Methylnaphthalene	10.23	142	169616	1.84	ug/mL	99
41)	Dimethylphthalate	11.35	163	191473	1.78	ug/mL	98
42)	Acenaphthylene	11.49	152	227444	1.79	ug/mL	100
43)	2,6-Dinitrotoluene	11.42	165	37854	1.62	ug/mL	96
44)	Acenaphthene	11.78	153	150215	1.84	ug/mL	96
45)	2,4-Dinitrophenol	11.87	184	13480	1.40	ug/mL#	76
46)	4-Nitrophenol	11.98	109	19341	1.46	ug/mL	91
47)	Dibenzofuran	12.07	168	243893	1.83	ug/mL	100
48)	2,4-Dinitrotoluene	12.07	165	47005	1.62	ug/mL#	92
49)	Fluorene	12.61	166	176537	1.87	ug/mL	93
50)	Diethylphthalate	12.49	149	172906	1.81	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.64	204	95598	1.90	ug/mL	89
52)	4-Nitroaniline	12.66	138	16535	1.49	ug/mL	98
56)	4,6-Dinitro-2-methylphenol	12.71	198	19251	1.34	ug/mL	89
57)	Diphenylamine	12.83	169	105755	2.23	ug/mL	95
58)	4-bromophenyl phenyl ether	13.42	248	52790	2.05	ug/mL	85
59)	Hexachlorobenzene	13.50	284	46374	1.83	ug/mL	99
60)	Pentachlorophenol	13.82	266	24584	1.51	ug/mL	92
61)	Phenanthrene	14.14	178	224722	1.88	ug/mL	97
62)	Carbazole	14.50	167	111646	2.71	ug/mL	99
63)	Anthracene	14.22	178	205571	1.83	ug/mL	98
64)	Azobenzene	12.89	77	198718	1.94	ug/mL	99
65)	Di-n-Butylphthalate	15.14	149	278077	1.90	ug/mL	99
66)	Fluoranthene	16.05	202	220202	1.90	ug/mL	98
67)	alpha-BHC	13.43	183	36102	1.83	ug/mL	95
68)	beta-BHC	13.77	181	27151	1.86	ug/mL	94
69)	gamma-BHC	13.91	183	27144	1.72	ug/mL	86
70)	delta-BHC	14.27	183	24996	1.79	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Initial Calibration
DataAcq Meth : 8270

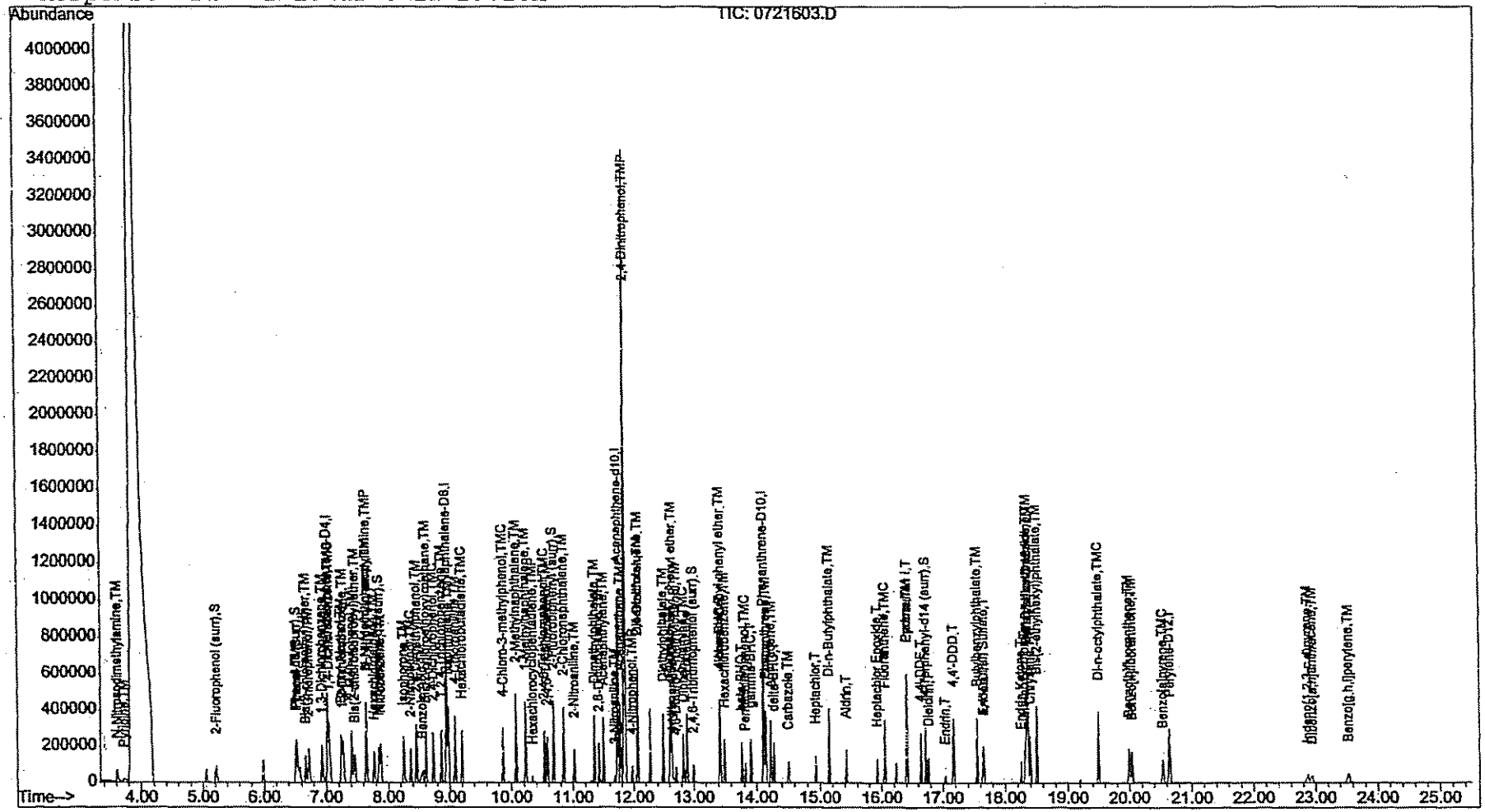
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	Heptachlor	14.93	100	32349	1.78	ug/mL	98
72)	Aldrin	15.42	66	36921	1.91	ug/mL	95
73)	Heptachlor Epoxide	15.93	353	12141	2.05	ug/mL	93
74)	Endosulfan I	16.42	195	9346	2.05	ug/mL#	73
75)	4,4'-DDE	16.64	246	49144	1.76	ug/mL	92
76)	Dieldrin	16.76	79	47157	2.02	ug/mL	93
77)	Endrin	17.04	263	6194	1.54	ug/mL#	72
78)	Endosulfan II	0.00	30	0	N.D.		
79)	4,4'-DDD	17.17	235	91992	1.87	ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	11062	1.69	ug/mL#	89
81)	4,4'-DDT	17.65	235	66412	1.61	ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.		
83)	Endrin Ketone	18.25	317	8277	1.69	ug/mL#	79
84)	Methoxychlor	18.31	227	145590	1.65	ug/mL	90
86)	Pyrene	16.41	202	221497	1.94	ug/mL	99
87)	Butylbenzylphthalate	17.54	149	105786	1.87	ug/mL	100
88)	Benzo[a]anthracene	18.34	228	187389	1.83	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	30959	2.04	ug/mL	91
90)	Chrysene	18.39	228	156964	1.89	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	148303	1.96	ug/mL	96
94)	Di-n-octylphthalate	19.49	149	242403	1.87	ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	142160	1.91	ug/mL	96
96)	Benzo[k]fluoranthene	20.04	252	135906	1.86	ug/mL	99
97)	Benzo[a]pyrene	20.53	252	111774	1.89	ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	63568	1.93	ug/mL	97
99)	Dibenzo[a,h]anthracene	22.94	278	54003	1.76	ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	67752	1.96	ug/mL#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

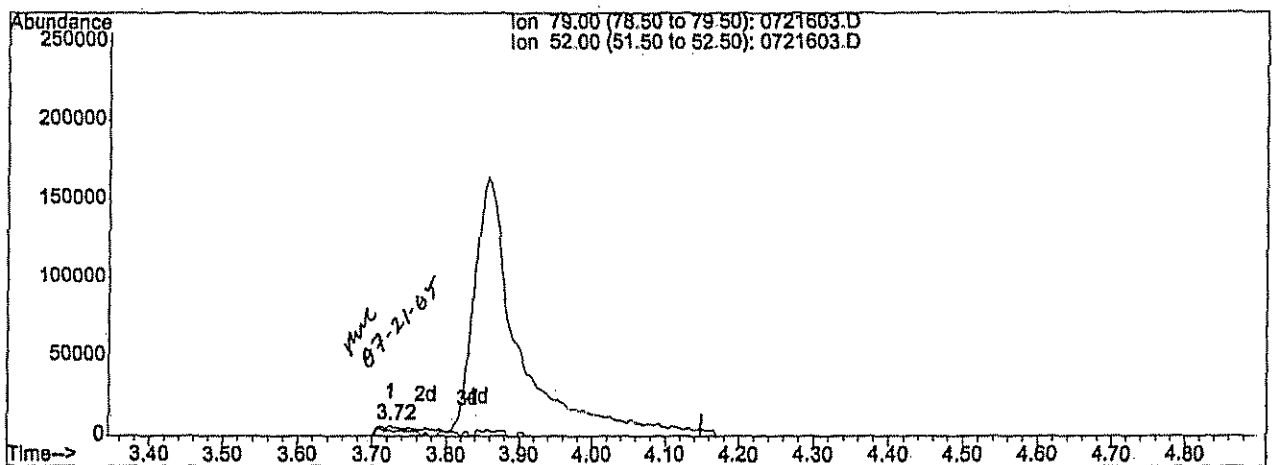


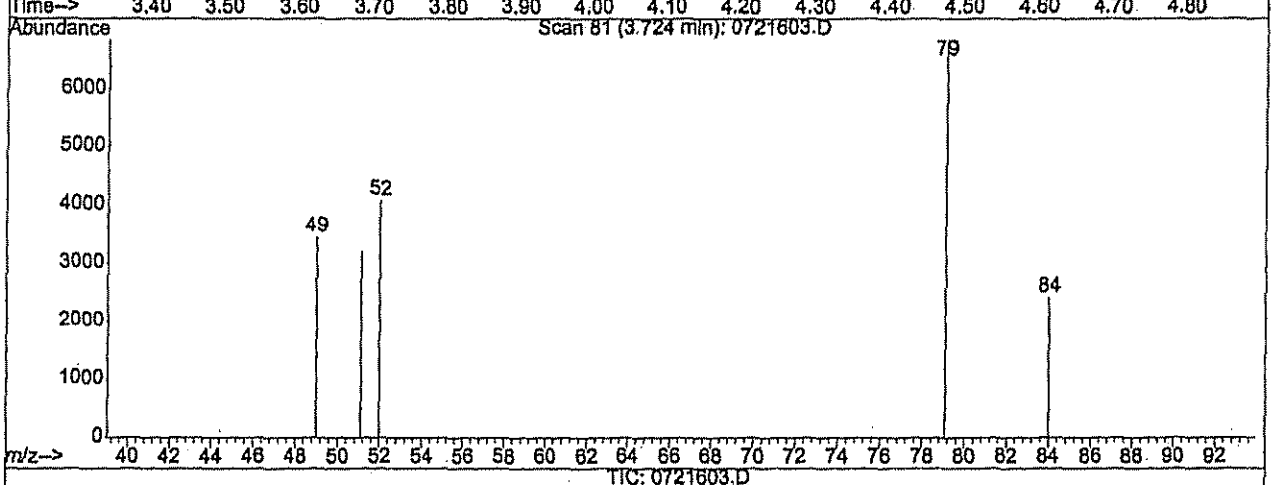
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.72min 1.54ug/mL m

response 39414

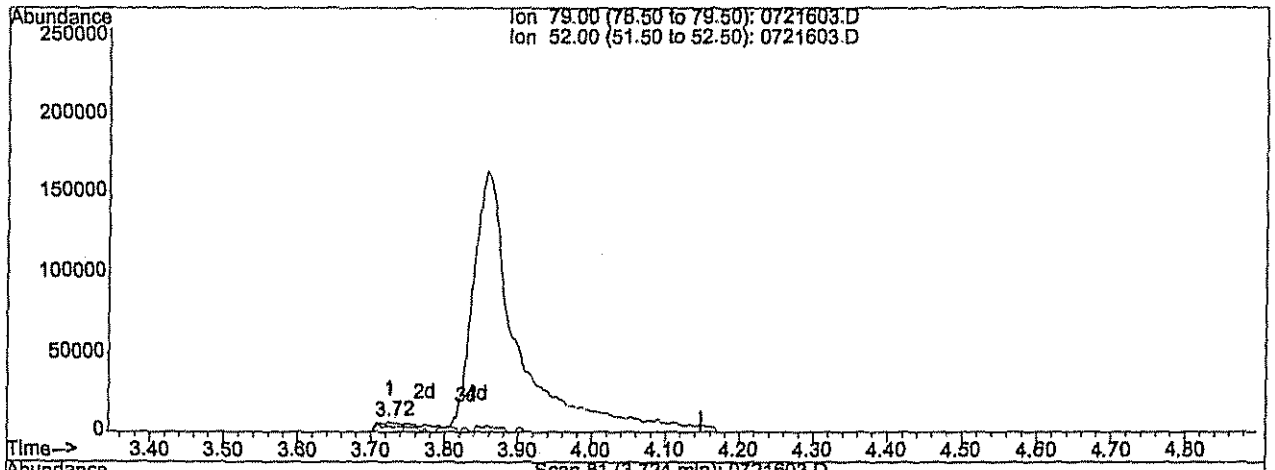
Ion	Exp%	Act%
79.00	100	100
52.00	23.00	10.35#
0.00	0.00	0.00
0.00	0.00	0.00

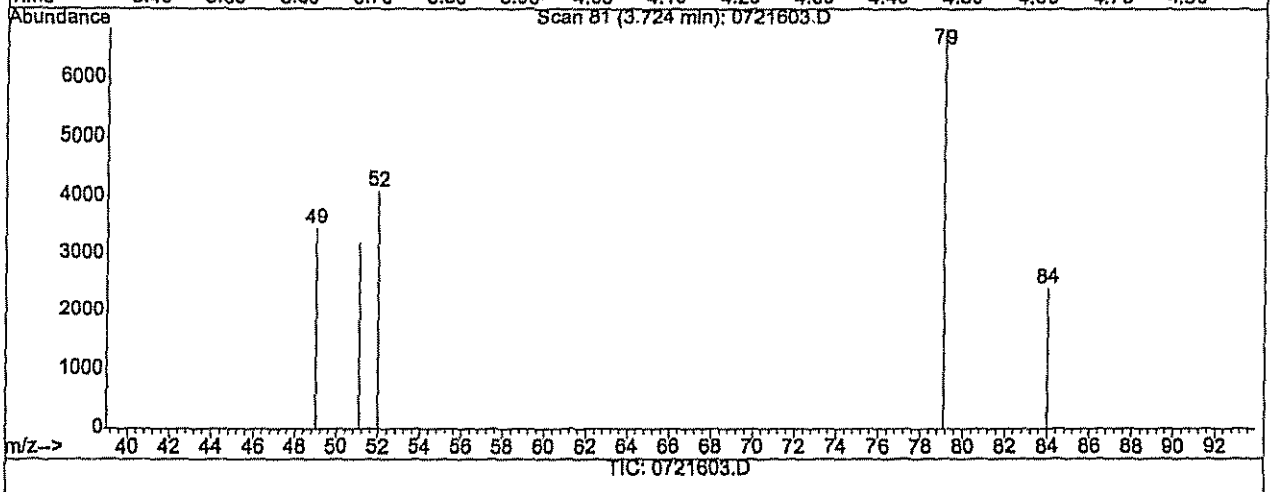
0721603.D 8270.M Thu Jul 21 11:16:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:15 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.72min 0.53ug/mL

response 13566

Ion	Exp%	Act%
79.00	100	100
52.00	23.00	30.06#
0.00	0.00	0.00
0.00	0.00	0.00

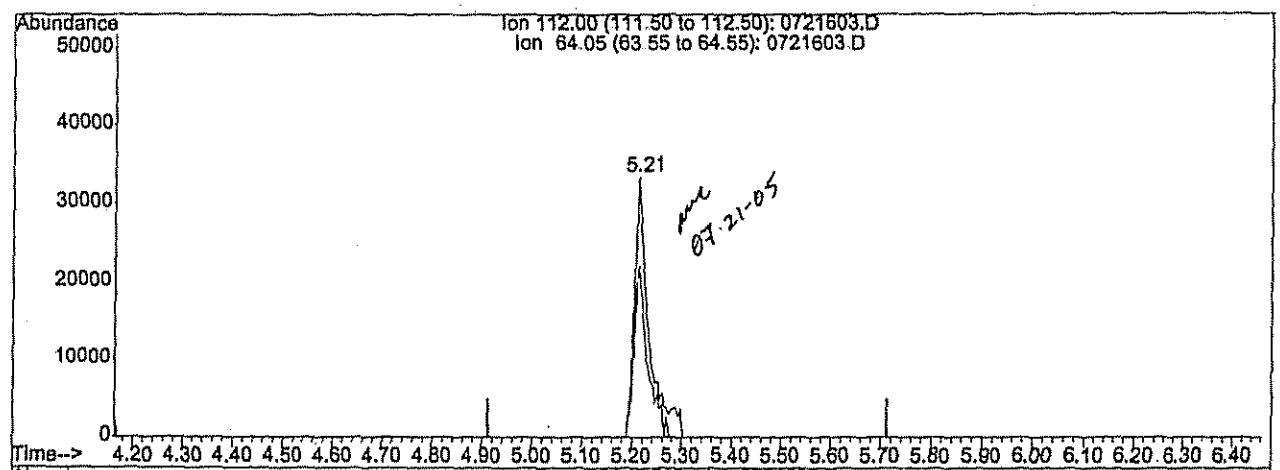
0721603.D 8270.M Thu Jul 21 11:15:59 2005 ENV

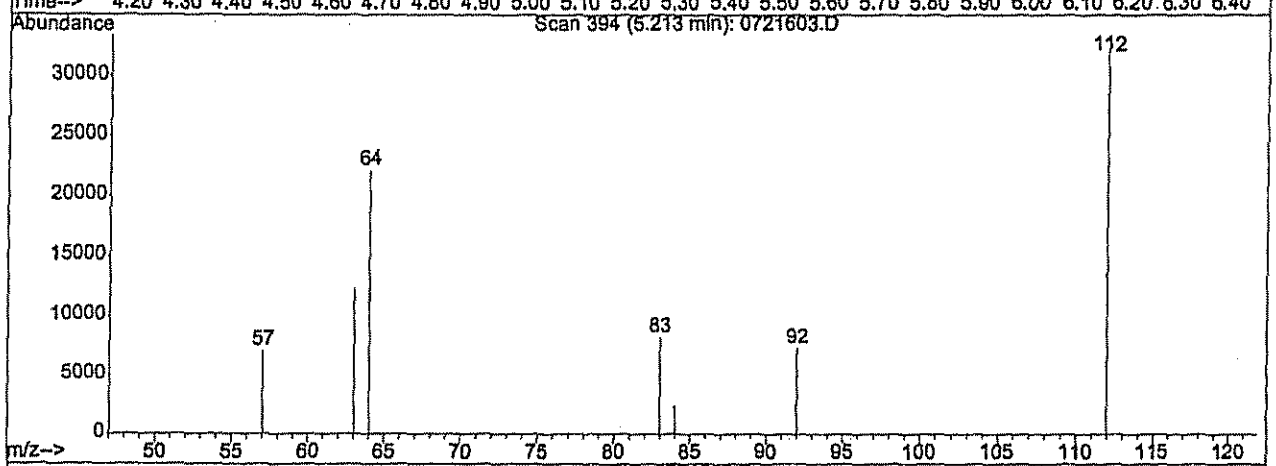
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





TIC: 0721603.D

(16) 2-Fluorophenol (surr) (S)

5.21min 2.03ug/mL m

response 68061

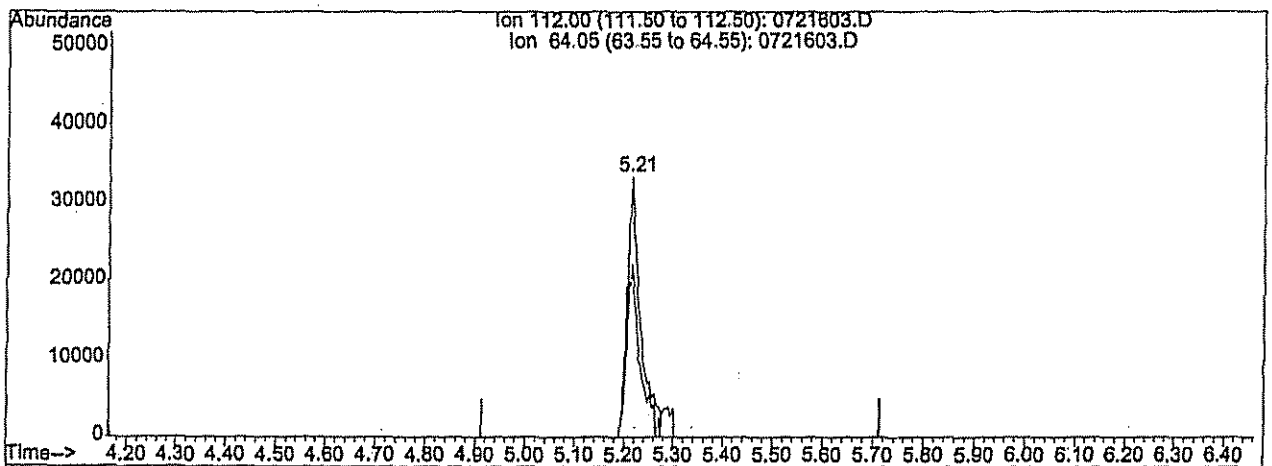
Ion	Exp%	Act%
112.00	100	100
64.05	66.10	61.34
0.00	0.00	0.00
0.00	0.00	0.00

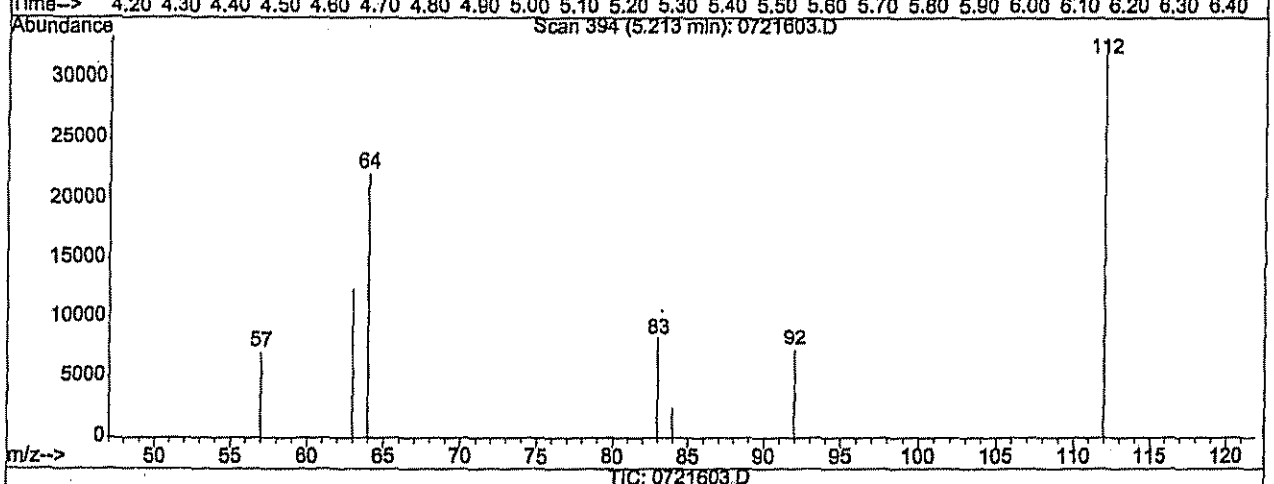
0721603.D 8270.M Thu Jul 21 11:16:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D Vial: 3
Acq On : 21 Jul 2005 9:52 am Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:16 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:15:21 2005
Response via : Multiple Level Calibration





TIC: 0721603.D

(16) 2-Fluorophenol (surr) (S)

5.21min 1.89ug/mL

response 63160

Ion	Exp%	Act%
112.00	100	100
64.05	66.10	66.10
0.00	0.00	0.00
0.00	0.00	0.00

0721603.D 8270.M Thu Jul 21 11:16:18 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	149568	4.00 ug/mL	0.00
18) Naphthalene-D8	8.94	136	605817	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.73	164	352040	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.11	188	487476	4.00 ug/mL	0.00
85) Chrysene-D12	18.35	240	338564	4.00 ug/mL	0.00
93) Perylene-D12	20.64	264	242659	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.22	112	151709m	4.14 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 41.40%	
17) Phenol-d6 (surr)	6.51	99	235734	3.78 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 37.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	85170	3.85 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 38.50%	
53) 2-Fluorobiphenyl (surr)	10.68	172	401970	3.73 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 37.30%	
54) 2,4,6-Tribromophenol (surr	13.00	330	39788	3.93 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 39.30%	
92) 4-Terphenyl-d14 (surr)	16.71	244	333103	3.90 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 39.00%	
Target Compounds					Qvalue
2) Pyridine	3.63	79	142950m	5.81 ug/mL	
3) N-Nitrosodimethylamine	3.61	74	98884	4.24 ug/mL	91
4) Phenol	6.53	94	268858	3.83 ug/mL	98
5) Bis(2-chloroethyl)ether	6.66	93	201978	3.77 ug/mL	97
6) 2-Chlorophenol	6.71	128	203616	3.81 ug/mL	95
7) Benzyl Alcohol	7.24	108	139753	3.81 ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	200228	3.90 ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	207813	4.01 ug/mL	88
10) 1,2-Dichlorobenzene	7.26	146	187276	3.85 ug/mL	98
11) 2-Methylphenol	7.41	107	167776	3.80 ug/mL	88
12) 3-, 4-Methylphenol	7.64	107	241489	3.77 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	246810	3.90 ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	124959	3.74 ug/mL	98
15) Hexachloroethane	7.76	117	76732	3.71 ug/mL	91
19) Nitrobenzene	7.88	77	228391	3.88 ug/mL	99
20) Isophorone	8.25	82	341422	3.81 ug/mL	100
21) 2-Nitrophenol	8.36	139	119028	3.84 ug/mL#	89
22) 2,4-Dimethylphenol	8.45	122	157713	3.83 ug/mL	95
23) Benzoic Acid	8.59	122	83267	3.88 ug/mL	97
24) Bis(2-chloroethoxy)methane	8.61	93	233548	3.81 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0721604.D 8270.M Thu Jul 21 14:10:25 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.73	162	164209	3.78 ug/mL	96
26)	1,2,4-Trichlorobenzene	8.86	180	171359	3.61 ug/mL	89
27)	Naphthalene	8.98	128	533282	3.79 ug/mL	98
28)	4-Chloroaniline	9.09	127	86134	3.24 ug/mL	97
29)	Hexachlorobutadiene	9.20	225	111215	3.99 ug/mL	94
30)	4-Chloro-3-methylphenol	9.86	107	190444	3.83 ug/mL	98
31)	2-Methylnaphthalene	10.07	142	390071	3.83 ug/mL	93
34)	Hexachlorocyclopentadiene	10.34	237	34414	3.32 ug/mL#	78
35)	2,4,6-Trichlorophenol	10.54	196	125960	3.80 ug/mL	98
36)	2,4,5-Trichlorophenol	10.58	196	128139	3.84 ug/mL	99
37)	2-Chloronaphthalene	10.84	162	345578	3.67 ug/mL	97
38)	2-Nitroaniline	11.02	65	117335	3.84 ug/mL	93
39)	3-Nitroaniline	11.69	138	22014	3.01 ug/mL	91
40)	1-Methylnaphthalene	10.23	142	345399	3.72 ug/mL	99
41)	Dimethylphthalate	11.35	163	397989	3.73 ug/mL	99
42)	Acenaphthylene	11.50	152	464053	3.67 ug/mL	98
43)	2,6-Dinitrotoluene	11.43	165	83510	3.76 ug/mL	89
44)	Acenaphthene	11.78	153	313621	3.81 ug/mL	98
45)	2,4-Dinitrophenol	11.87	184	36341	4.23 ug/mL	96
46)	4-Nitrophenol	11.98	109	47829	3.97 ug/mL	95
47)	Dibenzofuran	12.06	168	502932	3.75 ug/mL	100
48)	2,4-Dinitrotoluene	12.07	165	109453	3.96 ug/mL#	87
49)	Fluorene	12.61	166	377777	3.94 ug/mL	97
50)	Diethylphthalate	12.50	149	372024	3.90 ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.64	204	196857	3.82 ug/mL	93
52)	4-Nitroaniline	12.67	138	43690	4.29 ug/mL#	82
56)	4,6-Dinitro-2-methylphenol	12.71	198	55106	4.13 ug/mL	89
57)	Diphenylamine	12.83	169	212564	3.81 ug/mL	96
58)	4-bromophenyl phenyl ether	13.42	248	110867	3.82 ug/mL	91
59)	Hexachlorobenzene	13.50	284	102109	3.78 ug/mL	99
60)	Pentachlorophenol	13.82	266	65939	4.16 ug/mL	98
61)	Phenanthrene	14.15	178	490440	3.80 ug/mL	97
62)	Carbazole	14.50	167	172246	3.19 ug/mL	97
63)	Anthracene	14.23	178	443698	3.71 ug/mL	98
64)	Azobenzene	12.89	77	426922	3.80 ug/mL	99
65)	Di-n-Butylphthalate	15.14	149	593125	3.73 ug/mL	99
66)	Fluoranthene	16.05	202	487292	3.87 ug/mL	98
67)	alpha-BHC	13.43	183	77548	3.69 ug/mL	97
68)	beta-BHC	13.77	181	62529	3.99 ug/mL	97
69)	gamma-BHC	13.91	183	63306	3.88 ug/mL	93
70)	delta-BHC	14.27	183	55625	3.78 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Initial Calibration
DataAcq Meth : 8270

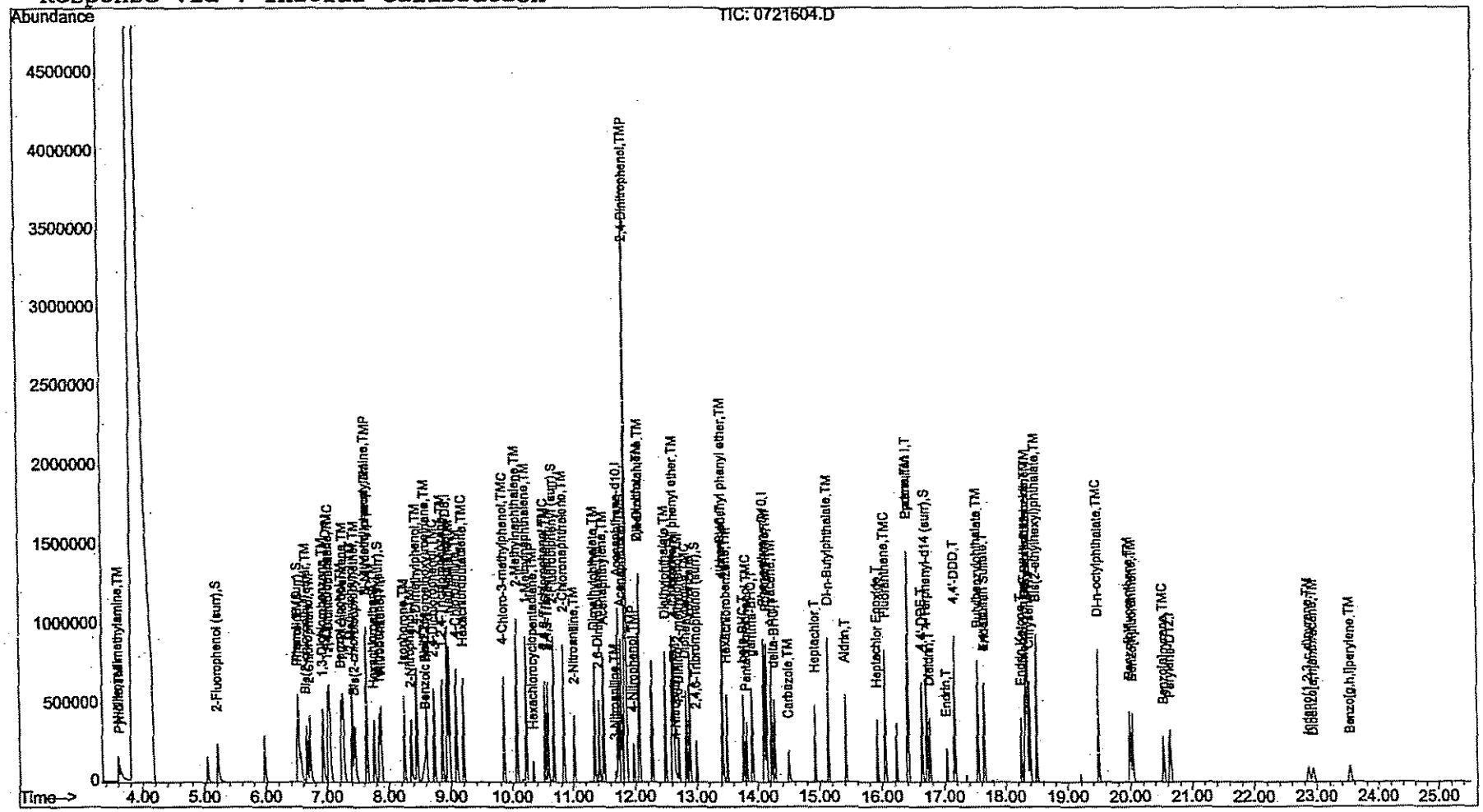
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	71282	3.73 ug/mL	96
72)	Aldrin	15.42	66	79432	3.78 ug/mL	94
73)	Heptachlor Epoxide	15.93	353	26939	4.04 ug/mL	95
74)	Endosulfan I	16.41	195	19790	3.85 ug/mL#	100
75)	4,4'-DDE	16.64	246	114389	3.92 ug/mL	95
76)	Dieldrin	16.76	79	96440	3.70 ug/mL#	93
77)	Endrin	17.04	263	15643	3.95 ug/mL#	82
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	205200	3.87 ug/mL#	100
80)	Endosulfan Sulfate	17.64	272	25541	3.80 ug/mL#	71
81)	4,4'-DDT	17.66	235	152183	3.67 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	21309	4.24 ug/mL#	77
84)	Methoxychlor	18.31	227	329395	3.67 ug/mL	100
86)	Pyrene	16.41	202	488255	3.90 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	230755	3.78 ug/mL	95
88)	Benzo[a]anthracene	18.34	228	424939	3.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	64256	3.76 ug/mL	91
90)	Chrysene	18.39	228	352122	3.90 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	18.50	149	316857	3.79 ug/mL	96
94)	Di-n-octylphthalate	19.49	149	529972	3.82 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	325588	4.04 ug/mL	98
96)	Benzo[k]fluoranthene	20.03	252	310163	3.97 ug/mL	99
97)	Benzo[a]pyrene	20.53	252	244837	3.85 ug/mL#	97
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	129720	3.63 ug/mL	100
99)	Dibenzo[a,h]anthracene	22.94	278	114360	3.58 ug/mL#	91
100)	Benzo[g,h,i]perylene	23.53	276	136815	3.62 ug/mL#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: 8270.RES

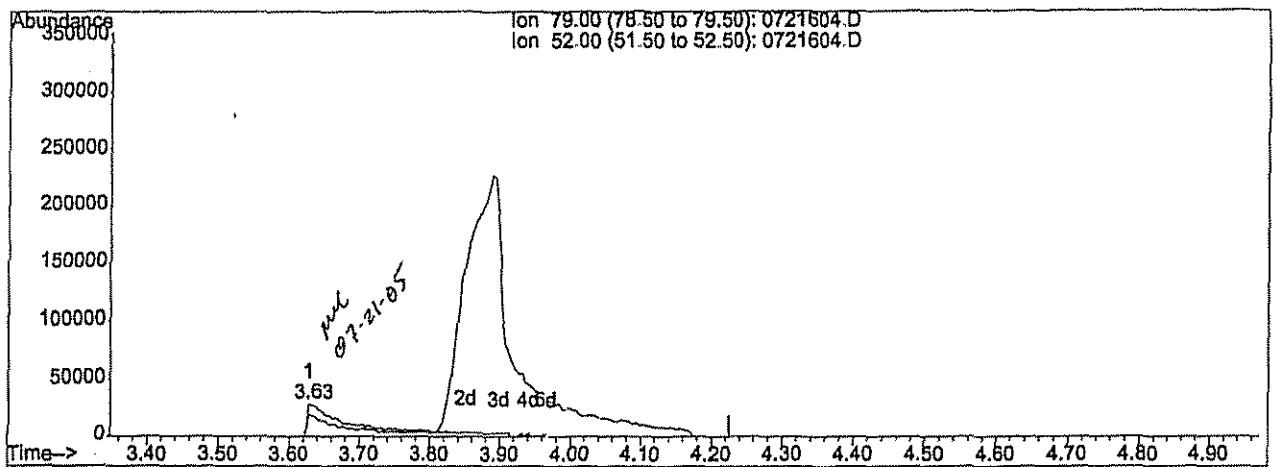
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 5.81ug/mL m

response 142950

Ion	Exp%	Act%
79.00	100	100
52.00	10.30	35.70#
0.00	0.00	0.00
0.00	0.00	0.00

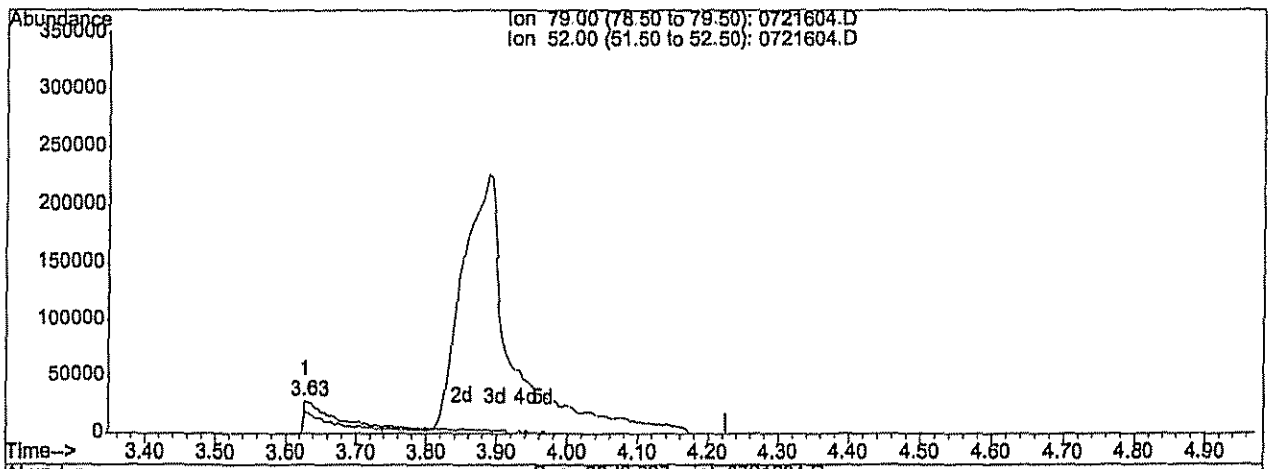
0721604.D 8270.M Thu Jul 21 11:18:02 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:17 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 3.97ug/mL

response 97610

Ion	Exp%	Act%
79.00	100	100
52.00	10.30	52.29#
0.00	0.00	0.00
0.00	0.00	0.00

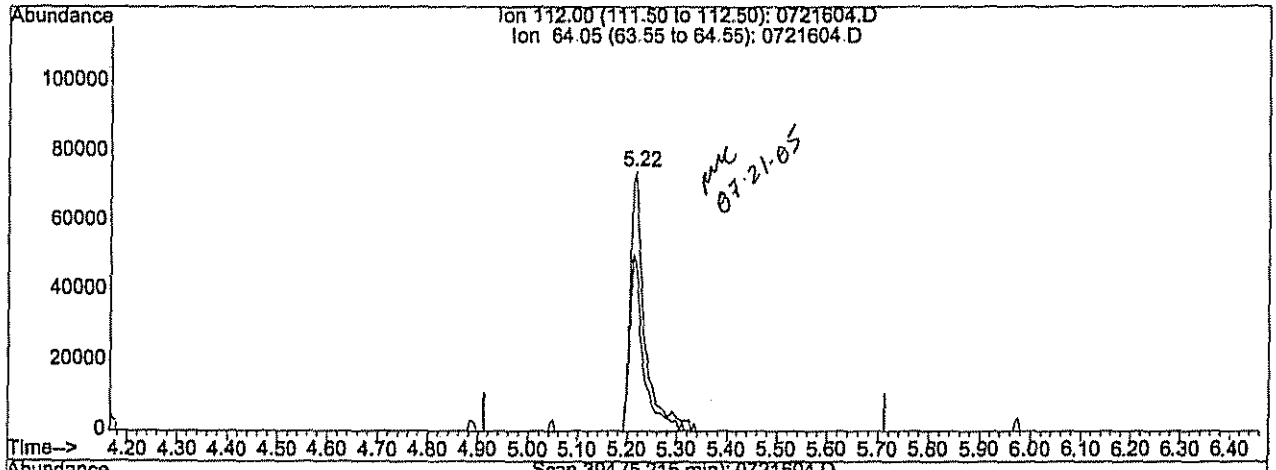
0721604.D 8270.M Thu Jul 21 11:17:57 2005 ENV

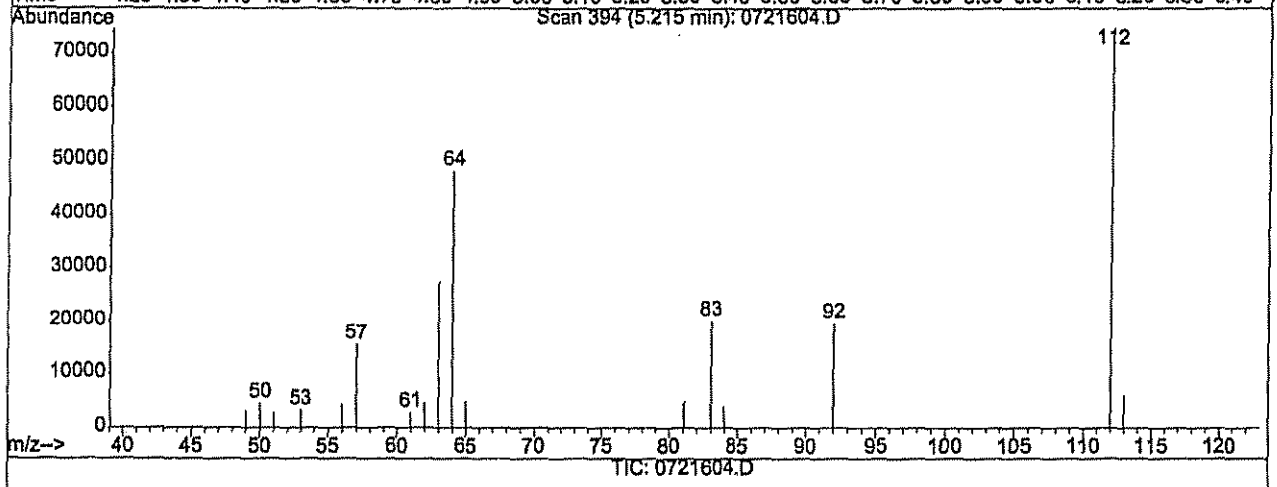
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

5.22min 4.14ug/mL m

response 151709

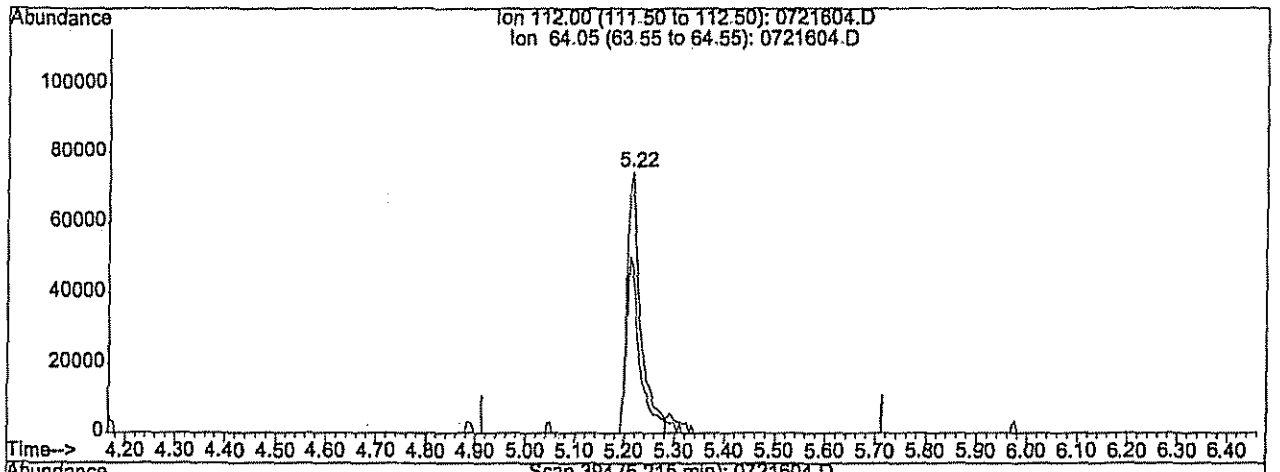
Ion	Exp%	Act%
112.00	100	100
64.05	61.30	64.80
0.00	0.00	0.00
0.00	0.00	0.00

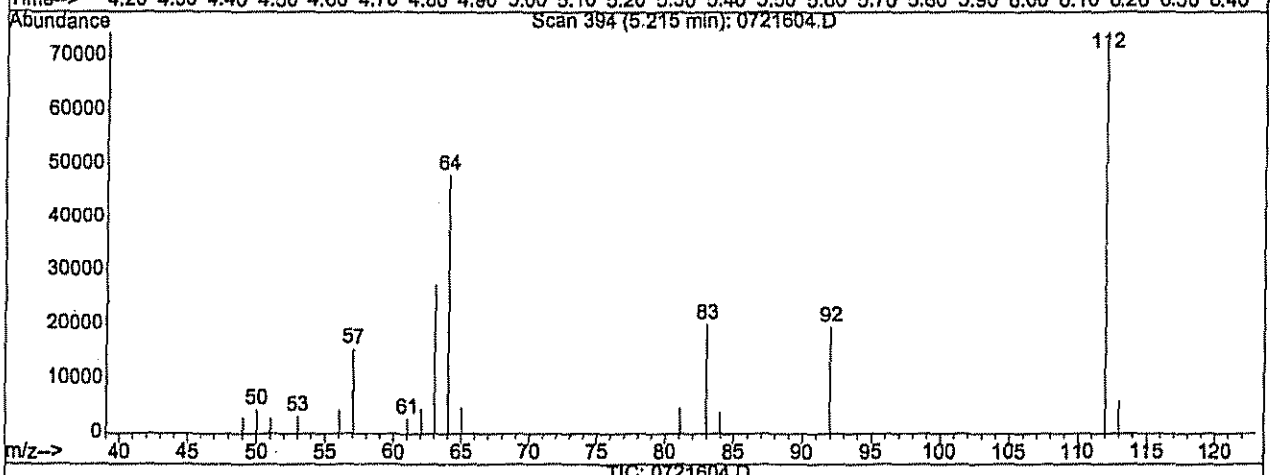
0721604.D 8270.M Thu Jul 21 11:18:16 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D Vial: 4
Acq On : 21 Jul 2005 10:25 am Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:17:27 2005
Response via : Multiple Level Calibration





TIC: 0721604.D

(16) 2-Fluorophenol (surr) (S)

5.22min 3.85ug/mL

response 141281

Ion	Exp%	Act%
112.00	100	100
64.05	61.30	69.59
0.00	0.00	0.00
0.00	0.00	0.00

0721604.D 8270.M Thu Jul 21 11:18:13 2005 ENV

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mmc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	124846	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	502739	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	290095	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	392326	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	280892	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	194777	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	189995m	6.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.40%	
17) Phenol-d6 (surr)	6.51	99	305401	5.98	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	59.80%	
32) Nitrobenzene-d5 (surr)	7.85	128	112179	6.19	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	61.90%	
53) 2-Fluorobiphenyl (surr)	10.68	172	509360	5.87	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.70%	
54) 2,4,6-Tribromophenol (surr	13.00	330	49974	6.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	60.30%	
92) 4-Terphenyl-d14 (surr)	16.72	244	413385	5.88	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	58.80%	

Target Compounds						Qvalue
2) Pyridine	3.62	79	177790m	7.52	ug/mL	
3) N-Nitrosodimethylamine	3.61	74	125692	6.33	ug/mL	98
4) Phenol	6.53	94	345993	5.99	ug/mL	97
5) Bis(2-chloroethyl)ether	6.66	93	258837	5.90	ug/mL	99
6) 2-Chlorophenol	6.71	128	263371	6.00	ug/mL	98
7) Benzyl Alcohol	7.24	108	182933	6.07	ug/mL	98
8) 1,3-Dichlorobenzene	6.93	146	252243	5.94	ug/mL	99
9) 1,4-Dichlorobenzene	7.04	146	259311	5.99	ug/mL	92
10) 1,2-Dichlorobenzene	7.27	146	236586	5.90	ug/mL	98
11) 2-Methylphenol	7.41	107	214676	5.93	ug/mL	95
12) 3-, 4-Methylphenol	7.64	107	306875	5.85	ug/mL#	92
13) Bis(2-chloroisopropyl)ethe	7.46	45	309611	5.91	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.65	70	164676	6.04	ug/mL	99
15) Hexachloroethane	7.77	117	99221	5.89	ug/mL	98
19) Nitrobenzene	7.88	77	296698	6.13	ug/mL	98
20) Isophorone	8.25	82	443933	6.07	ug/mL	99
21) 2-Nitrophenol	8.36	139	142362	5.61	ug/mL	96
22) 2,4-Dimethylphenol	8.46	122	198582	5.90	ug/mL	91
23) Benzoic Acid	8.60	122	111600	6.33	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.61	93	295998	5.92	ug/mL	100

(#) = qualifier out of range (m) = manual integration
0721605.D 8270.M Thu Jul 21 14:10:37 2005 ENV Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	218215	6.16 ug/mL	99
26) 1,2,4-Trichlorobenzene	8.86	180	222126	5.83 ug/mL	99
27) Naphthalene	8.98	128	685904	5.98 ug/mL	99
28) 4-Chloroaniline	9.09	127	139615	6.76 ug/mL	98
29) Hexachlorobutadiene	9.20	225	138870	6.01 ug/mL	98
30) 4-Chloro-3-methylphenol	9.86	107	246990	6.07 ug/mL	94
31) 2-Methylnaphthalene	10.07	142	494923	5.94 ug/mL	95
34) Hexachlorocyclopentadiene	10.34	237	48241	5.99 ug/mL#	97
35) 2,4,6-Trichlorophenol	10.53	196	162929	6.07 ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	163140	6.01 ug/mL	96
37) 2-Chloronaphthalene	10.84	162	440110	5.84 ug/mL	98
38) 2-Nitroaniline	11.02	65	152417	6.14 ug/mL	97
39) 3-Nitroaniline	11.69	138	42519	7.69 ug/mL#	96
40) 1-Methylnaphthalene	10.23	142	443615	5.94 ug/mL	100
41) Dimethylphthalate	11.36	163	516480	6.01 ug/mL	99
42) Acenaphthylene	11.50	152	587536	5.80 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	109927	6.13 ug/mL	96
44) Acenaphthene	11.78	153	396903	5.94 ug/mL	99
45) 2,4-Dinitrophenol	11.86	184	49319	6.83 ug/mL	97
46) 4-Nitrophenol	11.98	109	63863	6.45 ug/mL	99
47) Dibenzofuran	12.06	168	634166	5.86 ug/mL	96
48) 2,4-Dinitrotoluene	12.07	165	131928	5.82 ug/mL	91
49) Fluorene	12.61	166	479093	6.09 ug/mL	95
50) Diethylphthalate	12.50	149	472917	6.06 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	12.64	204	250961	6.00 ug/mL	98
52) 4-Nitroaniline	12.66	138	57260	6.66 ug/mL#	88
56) 4,6-Dinitro-2-methylphenol	12.72	198	71873	6.62 ug/mL	94
57) Diphenylamine	12.83	169	270204	6.12 ug/mL	98
58) 4-bromophenyl phenyl ether	13.42	248	134181	5.83 ug/mL	94
59) Hexachlorobenzene	13.50	284	132630	6.22 ug/mL	97
60) Pentachlorophenol	13.82	266	84998	6.57 ug/mL	100
61) Phenanthrene	14.15	178	610988	5.98 ug/mL	99
62) Carbazole	14.50	167	252339	6.23 ug/mL	99
63) Anthracene	14.22	178	571388	6.08 ug/mL	99
64) Azobenzene	12.89	77	535724	6.02 ug/mL	99
65) Di-n-Butylphthalate	15.15	149	737463	5.90 ug/mL	99
66) Fluoranthene	16.05	202	623106	6.22 ug/mL	100
67) alpha-BHC	0.00	183	0	N.D. d	
68) beta-BHC	0.00	181	0	N.D. d	
69) gamma-BHC	0.00	183	0	N.D. d	
70) delta-BHC	0.00	183	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 11:19:10 2005
Response via : Initial Calibration
DataAcq Meth : 8270

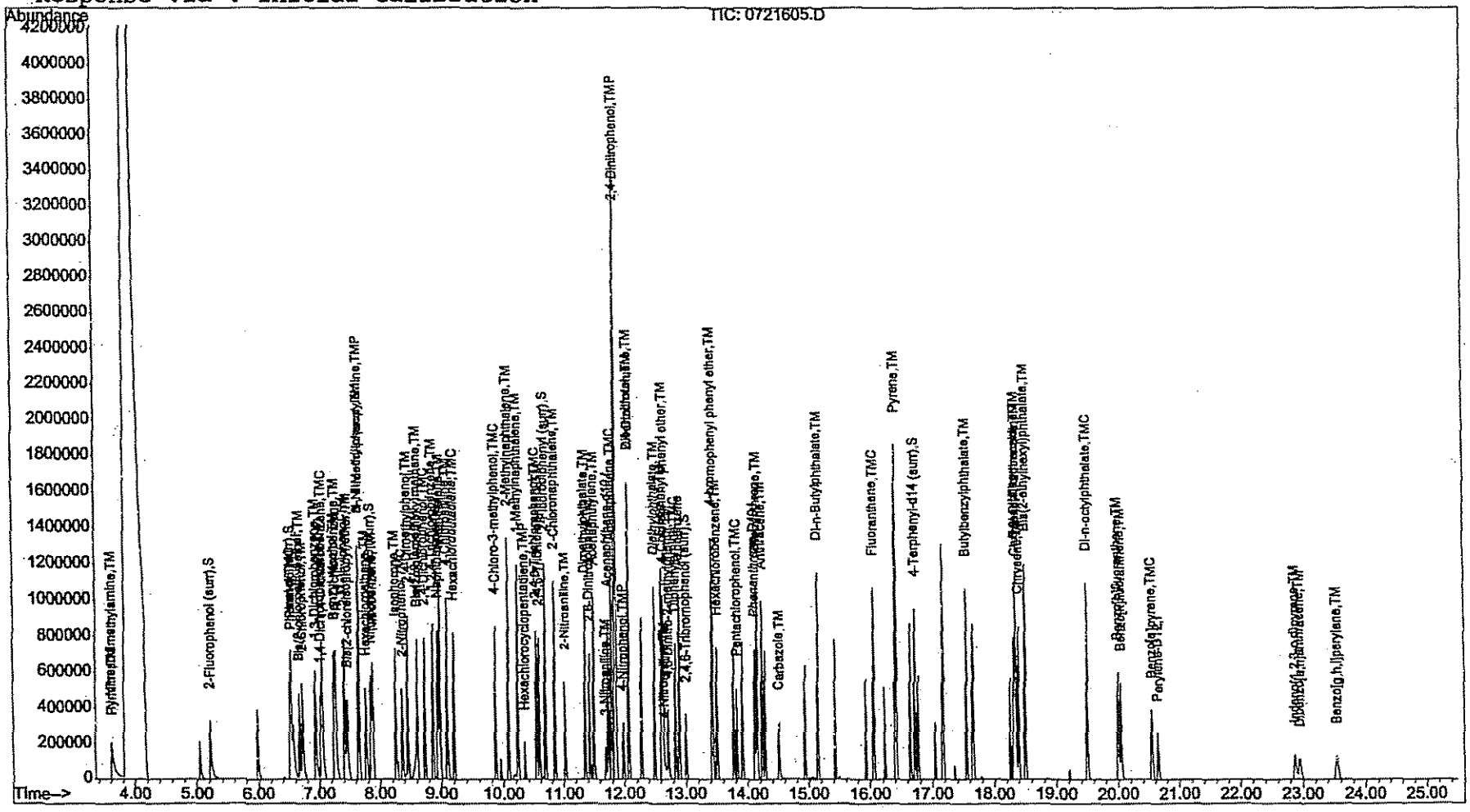
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	0.00	100	0	N.D. d	
72)	Aldrin	0.00	66	0	N.D. d	
73)	Heptachlor Epoxide	0.00	353	0	N.D. d	
74)	Endosulfan I	0.00	195	0	N.D. d	
75)	4,4'-DDE	0.00	246	0	N.D. d	
76)	Dieldrin	0.00	79	0	N.D. d	
77)	Endrin	0.00	263	0	N.D. d	
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	0.00	235	0	N.D. d	
80)	Endosulfan Sulfate	0.00	272	0	N.D. d	
81)	4,4'-DDT	0.00	235	0	N.D. d	
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	0.00	317	0	N.D. d	
84)	Methoxychlor	0.00	227	0	N.D. d	
86)	Pyrene	16.41	202	604955	5.87 ug/mL	98
87)	Butylbenzylphthalate	17.54	149	304383	6.12 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	550131	6.12 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.34	252	88635	6.38 ug/mL	96
90)	Chrysene	18.39	228	455547	6.14 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.50	149	409561	6.01 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	692866	6.32 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	409988	6.32 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	396294	6.34 ug/mL	100
97)	Benzo[a]pyrene	20.53	252	315573	6.26 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	168167	6.04 ug/mL	98
99)	Dibenzo[a,h]anthracene	22.94	278	154126	6.23 ug/mL#	88
100)	Benzo[g,h,i]perylene	23.53	276	185979	6.33 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

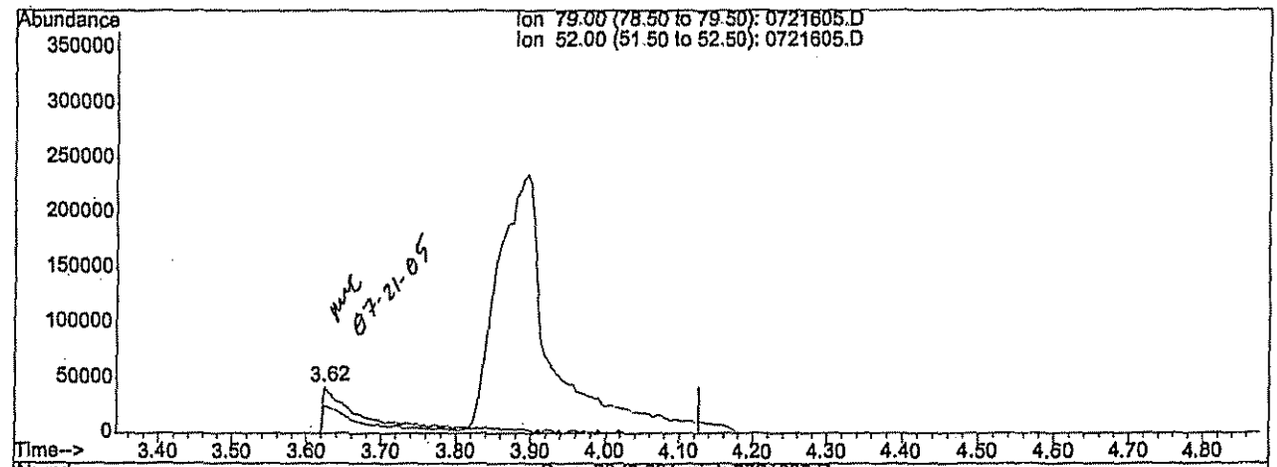


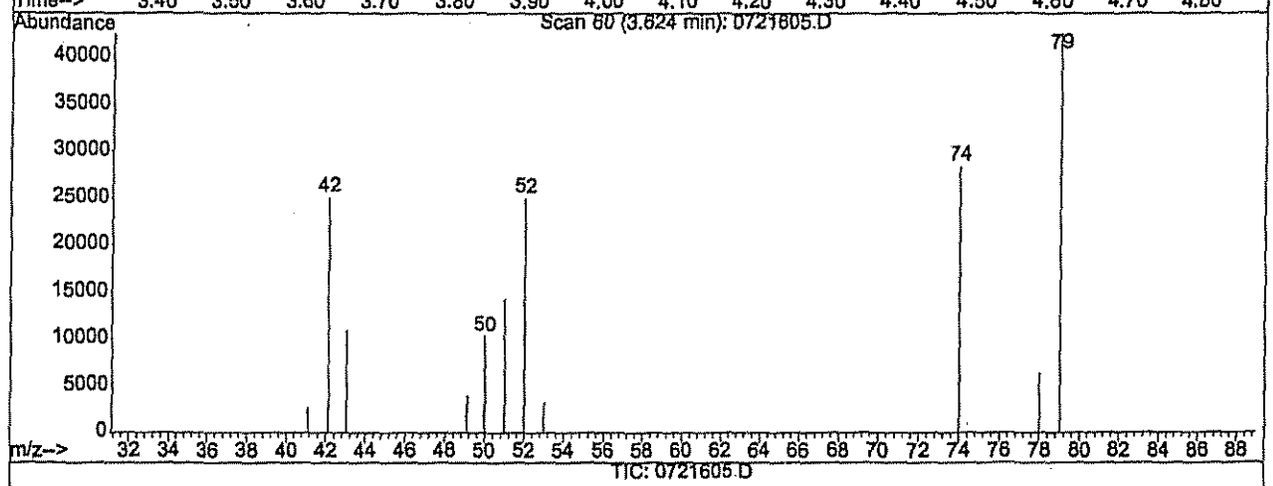
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D
Acq On : 21 Jul 2005 11:00 am
Sample : SVCAL6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005

Vial: 5
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.62min 7.52ug/mL m

response 177790

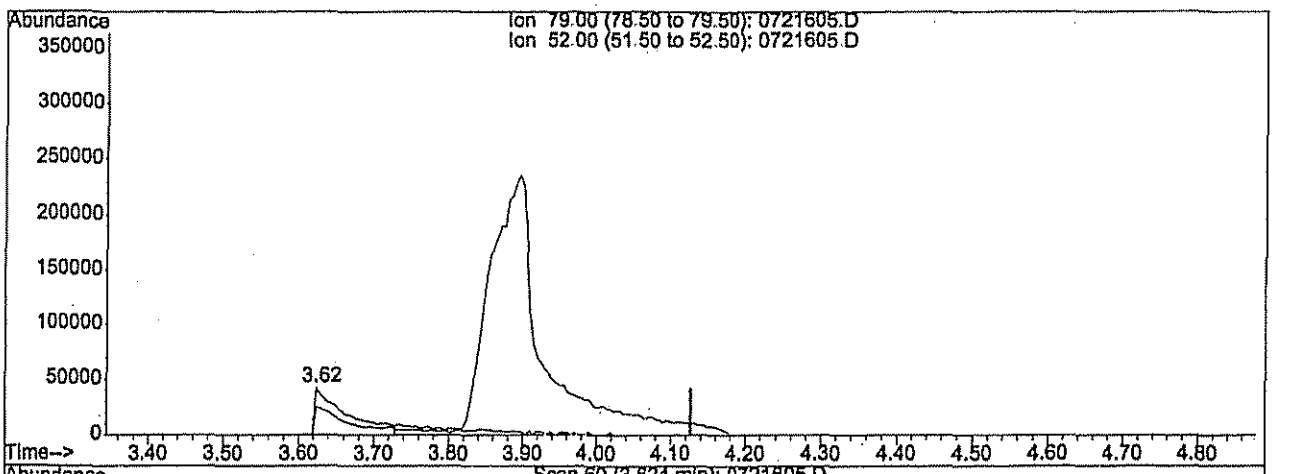
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	35.36
0.00	0.00	0.00
0.00	0.00	0.00

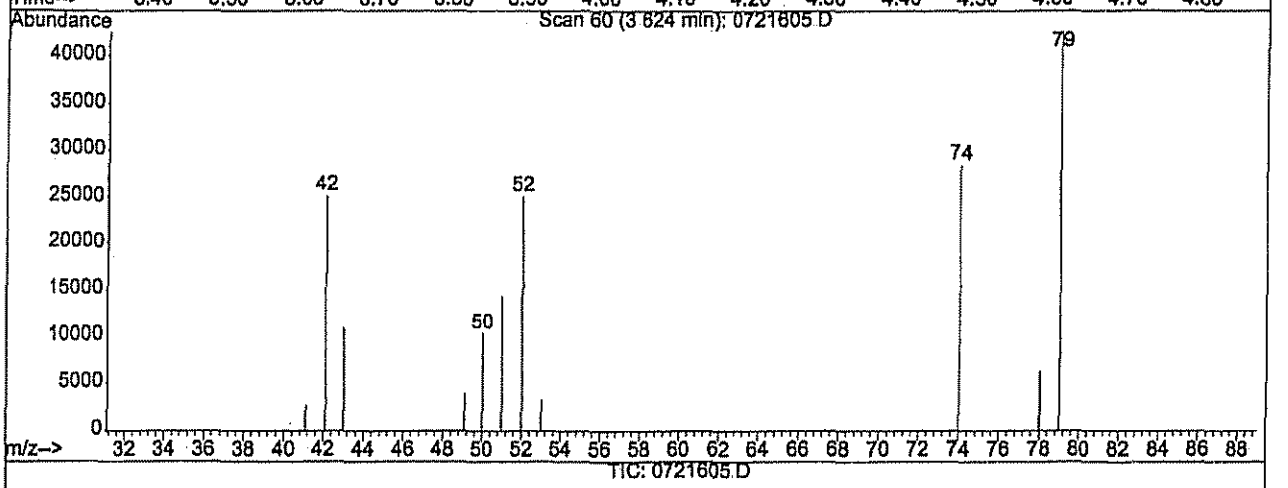
0721605.D 8270DXN.M Thu Jul 21 13:45:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:26 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.62min 5.21ug/mL

response 123134

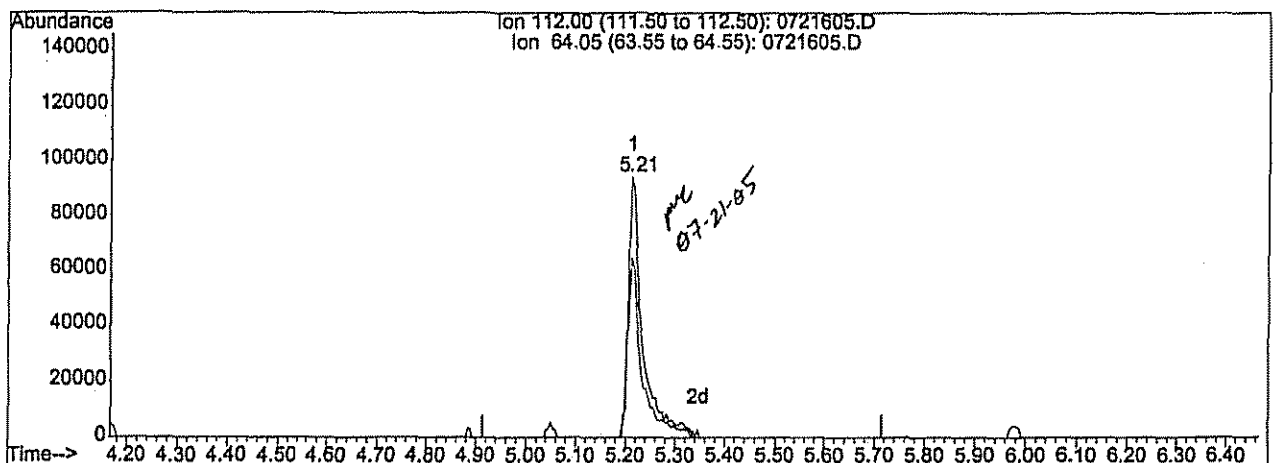
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	51.06#
0.00	0.00	0.00
0.00	0.00	0.00

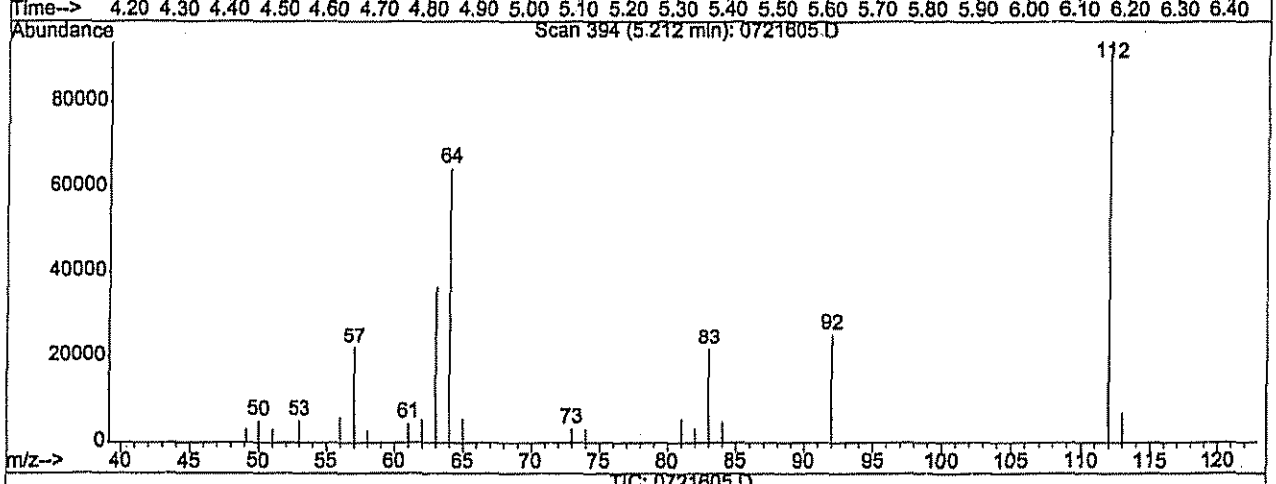
0721605.D 8270DXN.M Thu Jul 21 13:45:48 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:46 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





TIC: 0721605.D

(16) 2-Fluorophenol (surr) (S)

5.21min 6.14ug/mL m

response 189995

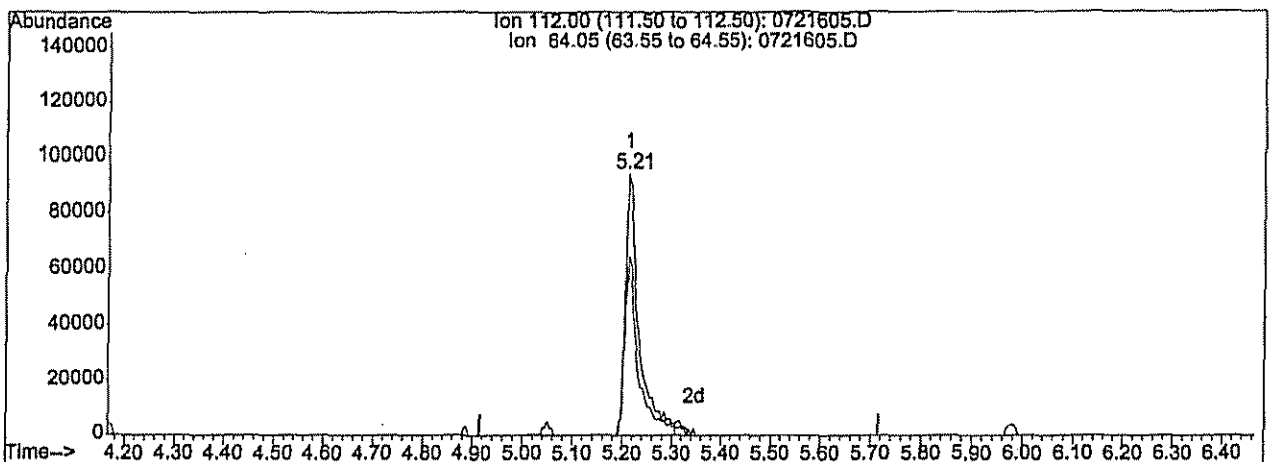
Ion	Exp%	Act%
112.00	100	100
64.05	64.80	66.94
0.00	0.00	0.00
0.00	0.00	0.00

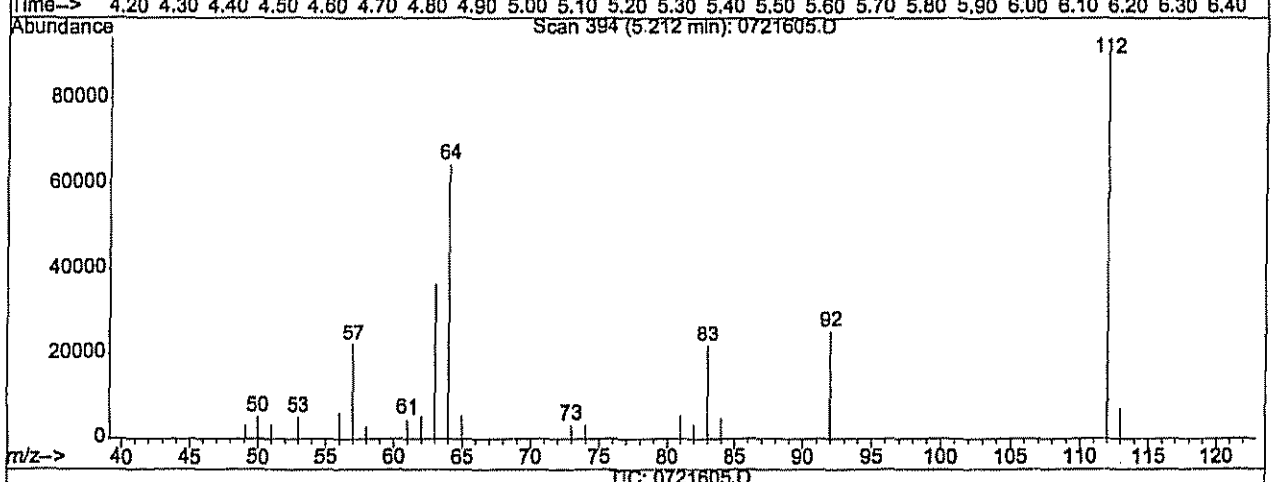
0721605.D 8270DXN.M Thu Jul 21 13:46:12 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721605.D Vial: 5
Acq On : 21 Jul 2005 11:00 am Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:45 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071905\8270DXN.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 13 07:53:43 2005
Response via : Multiple Level Calibration





TIC: 0721605.D

(16) 2-Fluorophenol (surr) (S)

5.21min 5.93ug/mL

response 183600

Ion	Exp%	Act%
112.00	100	100
64.05	64.80	69.27
0.00	0.00	0.00
0.00	0.00	0.00

0721605.D 8270DXN.M Thu Jul 21 13:46:06 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

vmc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	143801	4.00	ug/mL	0.00
18) Naphthalene-D8	8.94	136	599919	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	350122	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	488418	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	348554	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	232118	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.21	112	292358	8.15	ug/mL	0.00
Spiked Amount 10.000			Recovery = 81.50%			
17) Phenol-d6 (surr)	6.51	99	448972	7.64	ug/mL	0.00
Spiked Amount 10.000			Recovery = 76.40%			
32) Nitrobenzene-d5 (surr)	7.85	128	158723	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery = 72.80%			
53) 2-Fluorobiphenyl (surr)	10.68	172	740289	7.11	ug/mL	0.00
Spiked Amount 10.000			Recovery = 71.10%			
54) 2,4,6-Tribromophenol (surr	13.00	330	79563	7.94	ug/mL	0.00
Spiked Amount 10.000			Recovery = 79.40%			
92) 4-Terphenyl-d14 (surr)	16.72	244	631869	7.28	ug/mL	0.00
Spiked Amount 10.000			Recovery = 72.80%			

Target Compounds						Qvalue
2) Pyridine	3.61	79	304674m	10.53	ug/mL	
3) N-Nitrosodimethylamine	3.62	74	180604	7.79	ug/mL	97
4) Phenol	6.53	94	503358	7.57	ug/mL	99
5) Bis(2-chloroethyl)ether	6.66	93	392706	7.81	ug/mL	99
6) 2-Chlorophenol	6.72	128	375797	7.43	ug/mL	96
7) Benzyl Alcohol	7.24	108	262205	7.54	ug/mL	99
8) 1,3-Dichlorobenzene	6.94	146	370632	7.60	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	378770	7.60	ug/mL	99
10) 1,2-Dichlorobenzene	7.26	146	341907	7.43	ug/mL	97
11) 2-Methylphenol	7.41	107	307908	7.40	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	448374	7.47	ug/mL	94
13) Bis(2-chloroisopropyl)ethe	7.46	45	446803	7.43	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.65	70	228475	7.26	ug/mL	98
15) Hexachloroethane	7.77	117	144438	7.48	ug/mL	98
19) Nitrobenzene	7.88	77	428063	7.37	ug/mL	99
20) Isophorone	8.25	82	648135	7.40	ug/mL	98
21) 2-Nitrophenol	8.37	139	204095	6.85	ug/mL	98
22) 2,4-Dimethylphenol	8.46	122	306214	7.65	ug/mL	96
23) Benzoic Acid	8.62	122	175235	8.22	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.61	93	428396	7.20	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0721606.D 8270.M Thu Jul 21 14:10:49 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.73	162	312152	7.34 ug/mL	96
26) 1,2,4-Trichlorobenzene	8.87	180	325568	7.21 ug/mL	97
27) Naphthalene	8.98	128	990598	7.24 ug/mL	99
28) 4-Chloroaniline	9.12	127	132394	5.21 ug/mL	93
29) Hexachlorobutadiene	9.20	225	197363	7.16 ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	360365	7.40 ug/mL	97
31) 2-Methylnaphthalene	10.07	142	721241	7.27 ug/mL	99
34) Hexachlorocyclopentadiene	10.34	237	63694	6.55 ug/mL#	93
35) 2,4,6-Trichlorophenol	10.54	196	238935	7.36 ug/mL	94
36) 2,4,5-Trichlorophenol	10.58	196	238292	7.27 ug/mL	95
37) 2-Chloronaphthalene	10.84	162	650421	7.20 ug/mL	100
38) 2-Nitroaniline	11.03	65	218402	7.25 ug/mL	94
39) 3-Nitroaniline	11.70	138	28218	3.95 ug/mL	99
40) 1-Methylnaphthalene	10.23	142	656869	7.30 ug/mL	98
41) Dimethylphthalate	11.36	163	759702	7.32 ug/mL	99
42) Acenaphthylene	11.50	152	872841	7.20 ug/mL	99
43) 2,6-Dinitrotoluene	11.43	165	165168	7.59 ug/mL	93
44) Acenaphthene	11.78	153	584734	7.27 ug/mL	99
45) 2,4-Dinitrophenol	11.87	184	78762	8.74 ug/mL	89
46) 4-Nitrophenol	11.98	109	92299	7.58 ug/mL	92
47) Dibenzofuran	12.07	168	938212	7.22 ug/mL	97
48) 2,4-Dinitrotoluene	12.07	165	202150	7.44 ug/mL	97
49) Fluorene	12.61	166	695995	7.30 ug/mL	91
50) Diethylphthalate	12.50	149	695004	7.36 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.64	204	373045	7.39 ug/mL	96
52) 4-Nitroaniline	12.68	138	80351	7.54 ug/mL	98
56) 4,6-Dinitro-2-methylphenol	12.72	198	115696	8.35 ug/mL	97
57) Diphenylamine	12.83	169	367491	6.65 ug/mL	99
58) 4-bromophenyl phenyl ether	13.42	248	202886	7.13 ug/mL	99
59) Hexachlorobenzene	13.50	284	197227	7.36 ug/mL	95
60) Pentachlorophenol	13.82	266	131464	7.97 ug/mL	94
61) Phenanthrene	14.15	178	932348	7.34 ug/mL	98
62) Carbazole	14.50	167	343115m	6.74 ug/mL	
63) Anthracene	14.23	178	859104	7.32 ug/mL	99
64) Azobenzene	12.89	77	800668	7.22 ug/mL	100
65) Di-n-Butylphthalate	15.14	149	1148076	7.41 ug/mL	99
66) Fluoranthene	16.06	202	936940	7.44 ug/mL	98
67) alpha-BHC	13.43	183	148063	7.22 ug/mL	98
68) beta-BHC	13.77	181	116751	7.44 ug/mL	100
69) gamma-BHC	13.91	183	123355	7.62 ug/mL	99
70) delta-BHC	14.27	183	111779	7.73 ug/mL	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	142679	7.62 ug/mL	99
72)	Aldrin	15.42	66	155360	7.51 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	53866	8.03 ug/mL	98
74)	Endosulfan I	16.42	195	41907	8.24 ug/mL#	83
75)	4,4'-DDE	16.64	246	223116	7.68 ug/mL	100
76)	Dieldrin	16.77	79	193459	7.59 ug/mL	99
77)	Endrin	17.04	263	31230	7.90 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	392718	7.48 ug/mL#	99
80)	Endosulfan Sulfate	17.65	272	51074	7.72 ug/mL	97
81)	4,4'-DDT	17.65	235	293663	7.27 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.25	317	43164	8.41 ug/mL	95
84)	Methoxychlor	18.32	227	678888	7.77 ug/mL	95
86)	Pyrene	16.41	202	909292	7.15 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	458518	7.40 ug/mL	98
88)	Benzo[a]anthracene	18.34	228	839315	7.49 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	126916	7.25 ug/mL	98
90)	Chrysene	18.40	228	708173	7.64 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	609711	7.20 ug/mL	99
94)	Di-n-octylphthalate	19.49	149	1032687	7.80 ug/mL	100
95)	Benzo[b]fluoranthene	19.99	252	603528	7.70 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	584742	7.74 ug/mL	99
97)	Benzo[a]pyrene	20.54	252	456661	7.52 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	264203	7.95 ug/mL	96
99)	Dibenzo[a,h]anthracene	22.94	278	233004	7.83 ug/mL	99
100)	Benzo[g,h,i]perylene	23.53	276	283883	8.00 ug/mL	97

(#) = qualifier out of range (m) = manual integration

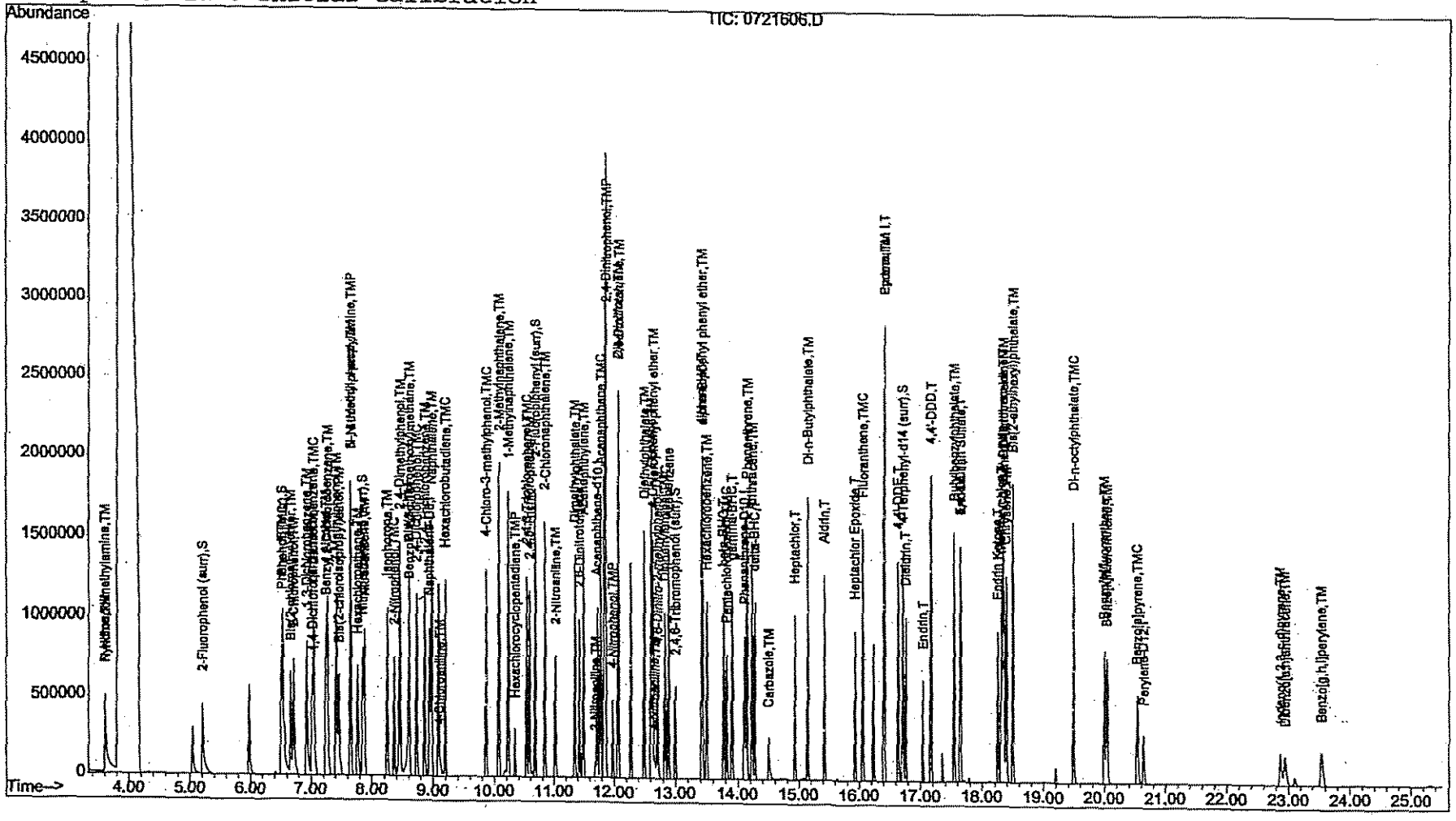
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D
Acq On : 21 Jul 2005 11:34 am
Sample : SVCAL8
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:07 2005

Vial: 6
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

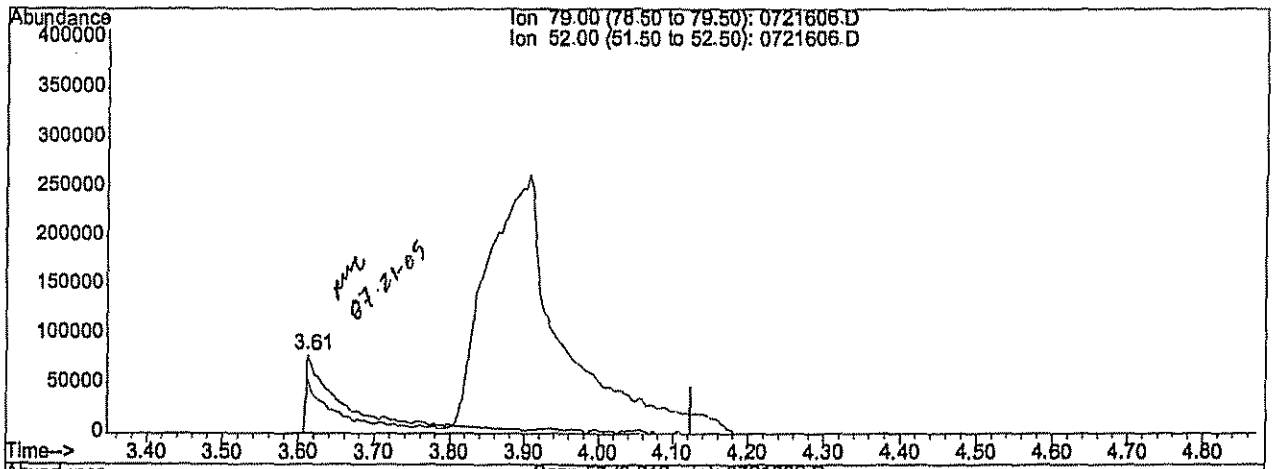


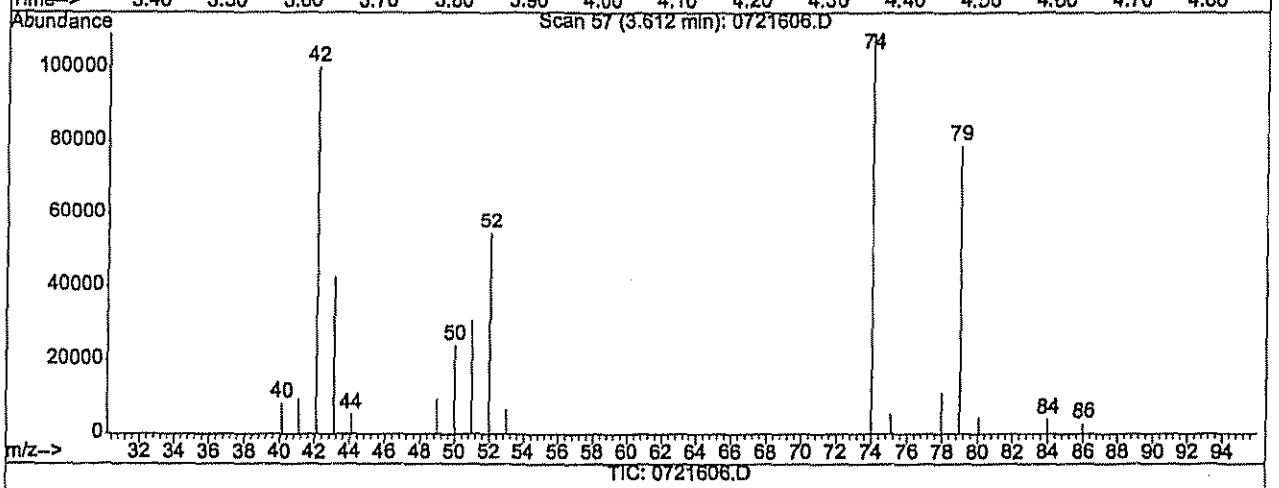
0721606.D 8270.M Thu Jul 21 14:10:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration





TIC: 0721606.D

(2) Pyridine (TM)

3.61min 10.53ug/mL m

response 304674

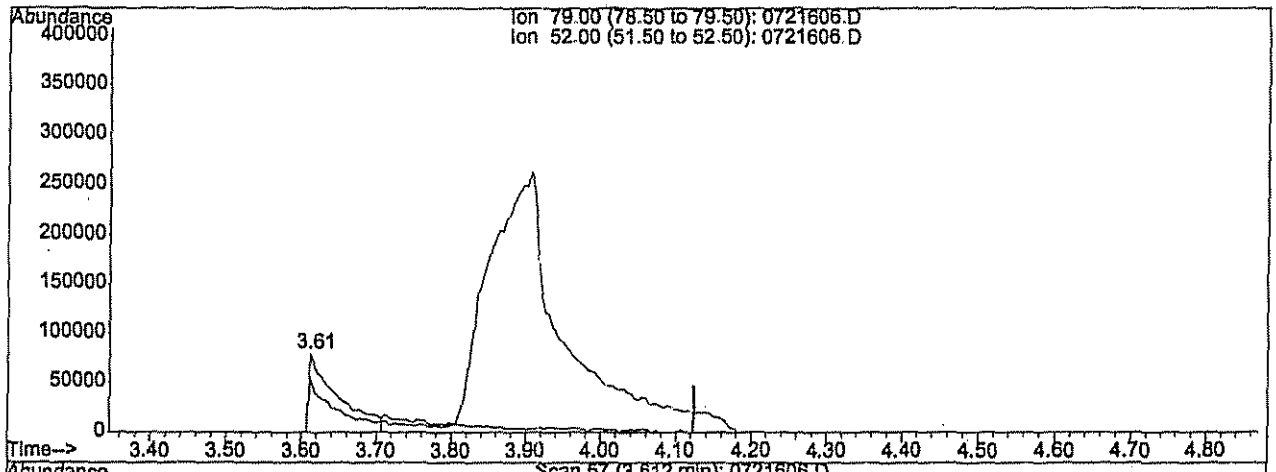
Ion	Exp%	Act%
79.00	100	100
52.00	35.40	41.35
0.00	0.00	0.00
0.00	0.00	0.00

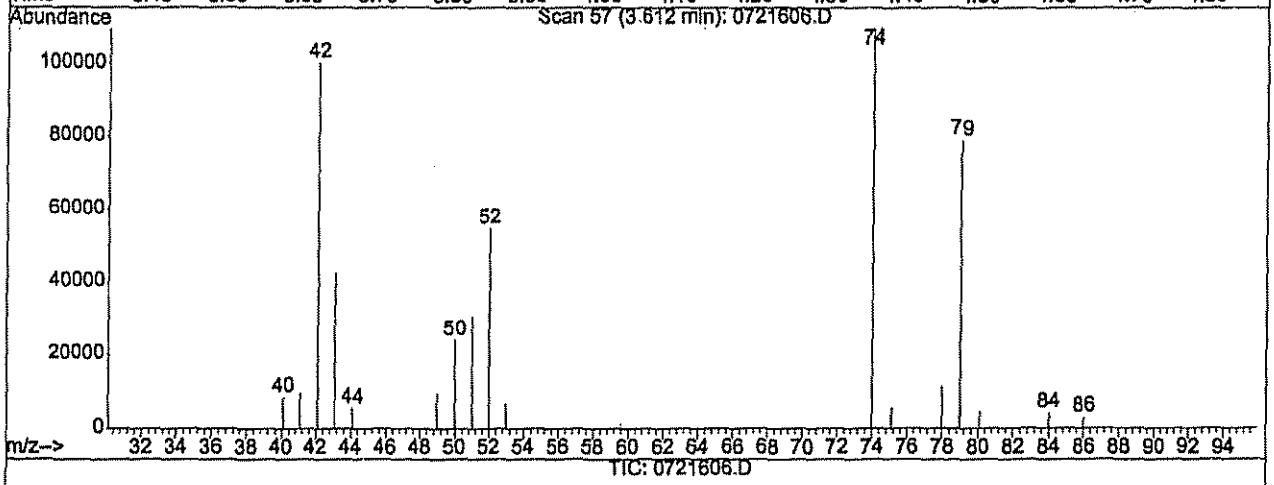
0721606.D 8270.M Thu Jul 21 13:54:58 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721606.D Vial: 6
Acq On : 21 Jul 2005 11:34 am Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:54 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:47:19 2005
Response via : Multiple Level Calibration





(2) Pyridine (TM)

3.61min 7.21ug/mL

response 208618

Ion	Exp%	Act%
79.00	100	100
52.00	35.40	60.38#
0.00	0.00	0.00
0.00	0.00	0.00

0721606.D 8270.M Thu Jul 21 13:54:53 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mwc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	153572	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	614169	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	357586	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	509832	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	367033	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	224296	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	478077	12.43	ug/mL	0.00
Spiked Amount 10.000			Recovery =		124.30%	
17) Phenol-d6 (surr)	6.52	99	728520	11.71	ug/mL	0.00
Spiked Amount 10.000			Recovery =		117.10%	
32) Nitrobenzene-d5 (surr)	7.86	128	262194	11.96	ug/mL	0.00
Spiked Amount 10.000			Recovery =		119.60%	
53) 2-Fluorobiphenyl (surr)	10.68	172	1197523	11.52	ug/mL	0.00
Spiked Amount 10.000			Recovery =		115.20%	
54) 2,4,6-Tribromophenol (surr	13.00	330	133787	13.09	ug/mL	0.00
Spiked Amount 10.000			Recovery =		130.90%	
92) 4-Terphenyl-d14 (surr)	16.72	244	1044598	11.64	ug/mL	0.00
Spiked Amount 10.000			Recovery =		116.40%	

Target Compounds						Qvalue
2) Pyridine	3.62	79	436672	13.29	ug/mL#	61
3) N-Nitrosodimethylamine	3.63	74	320483	13.01	ug/mL	99
4) Phenol	6.53	94	793741	11.30	ug/mL	98
5) Bis(2-chloroethyl)ether	6.67	93	693952	12.98	ug/mL	99
6) 2-Chlorophenol	6.72	128	613490	11.53	ug/mL	98
7) Benzyl Alcohol	7.25	108	438985	11.95	ug/mL	98
8) 1,3-Dichlorobenzene	6.94	146	603529	11.70	ug/mL	97
9) 1,4-Dichlorobenzene	7.04	146	610438	11.58	ug/mL	97
10) 1,2-Dichlorobenzene	7.27	146	548587	11.32	ug/mL	96
11) 2-Methylphenol	7.41	107	499457	11.41	ug/mL	98
12) 3-, 4-Methylphenol	7.65	107	728511	11.51	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	731747	11.56	ug/mL	100
14) N-Nitrosodi-n-propylamine	7.66	70	381380	11.57	ug/mL	98
15) Hexachloroethane	7.77	117	239095	11.75	ug/mL	99
19) Nitrobenzene	7.89	77	703650	12.03	ug/mL	99
20) Isophorone	8.26	82	1056290	11.96	ug/mL	99
21) 2-Nitrophenol	8.37	139	329035	11.10	ug/mL	95
22) 2,4-Dimethylphenol	8.46	122	485670	11.96	ug/mL	94
23) Benzoic Acid	8.67	122	315621	14.38	ug/mL	100
24) Bis(2-chloroethoxy)methane	8.61	93	689193	11.55	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0721607.D 8270.M Thu Jul 21 14:11:01 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	509972	11.91	ug/mL	98
26) 1,2,4-Trichlorobenzene	8.86	180	518081	11.44	ug/mL	99
27) Naphthalene	8.98	128	1595886	11.62	ug/mL	99
28) 4-Chloroaniline	9.14	127	186192	7.69	ug/mL#	91
29) Hexachlorobutadiene	9.20	225	331095	11.98	ug/mL	98
30) 4-Chloro-3-methylphenol	9.87	107	600422	12.23	ug/mL	99
31) 2-Methylnaphthalene	10.08	142	1161199	11.65	ug/mL	100
34) Hexachlorocyclopentadiene	10.34	237	126248	13.20	ug/mL#	95
35) 2,4,6-Trichlorophenol	10.54	196	388839	11.91	ug/mL	98
36) 2,4,5-Trichlorophenol	10.58	196	400052	12.17	ug/mL	97
37) 2-Chloronaphthalene	10.84	162	1070325	11.83	ug/mL	99
38) 2-Nitroaniline	11.03	65	358446	11.87	ug/mL	99
39) 3-Nitroaniline	11.71	138	39431	6.01	ug/mL	97
40) 1-Methylnaphthalene	10.23	142	1052406	11.66	ug/mL	100
41) Dimethylphthalate	11.36	163	1230643	11.81	ug/mL	99
42) Acenaphthylene	11.50	152	1385991	11.42	ug/mL	99
43) 2,6-Dinitrotoluene	11.44	165	272280	12.38	ug/mL	97
44) Acenaphthene	11.78	153	940641	11.67	ug/mL	98
45) 2,4-Dinitrophenol	11.88	184	141363	15.08	ug/mL	96
46) 4-Nitrophenol	11.99	109	167614	13.62	ug/mL	95
47) Dibenzofuran	12.07	168	1523252	11.71	ug/mL	99
48) 2,4-Dinitrotoluene	12.08	165	326571	11.94	ug/mL	84
49) Fluorene	12.62	166	1145291	11.97	ug/mL	96
50) Diethylphthalate	12.50	149	1144893	12.07	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.64	204	592288	11.67	ug/mL	93
52) 4-Nitroaniline	12.68	138	124658m	11.59	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.72	198	207057	14.19	ug/mL	96
57) Diphenylamine	12.84	169	518263	9.30	ug/mL	99
58) 4-bromophenyl phenyl ether	13.43	248	327692	11.28	ug/mL	95
59) Hexachlorobenzene	13.50	284	317035	11.52	ug/mL	98
60) Pentachlorophenol	13.82	266	226140	13.15	ug/mL	98
61) Phenanthrene	14.15	178	1500563	11.50	ug/mL	99
62) Carbazole	14.50	167	361342	7.31	ug/mL	99
63) Anthracene	14.23	178	1398170	11.61	ug/mL	99
64) Azobenzene	12.89	77	1311032	11.56	ug/mL	99
65) Di-n-Butylphthalate	15.15	149	1815289	11.39	ug/mL	100
66) Fluoranthene	16.06	202	1569696	12.12	ug/mL	98
67) alpha-BHC	13.43	183	240106	11.50	ug/mL	99
68) beta-BHC	13.77	181	195608	12.16	ug/mL	96
69) gamma-BHC	13.91	183	201065	12.04	ug/mL	99
70) delta-BHC	14.28	183	181108	12.10	ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	230922	11.95 ug/mL	98
72)	Aldrin	15.42	66	242114	11.39 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	86907	12.40 ug/mL	100
74)	Endosulfan I	16.42	195	64369	12.04 ug/mL	100
75)	4,4'-DDE	16.64	246	366769	12.21 ug/mL	100
76)	Dieldrin	16.76	79	307499	11.71 ug/mL	100
77)	Endrin	17.04	263	55426	13.48 ug/mL	94
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	649953	12.05 ug/mL	100
80)	Endosulfan Sulfate	17.64	272	83094	12.13 ug/mL	98
81)	4,4'-DDT	17.66	235	489286	11.87 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	72411	13.34 ug/mL	94
84)	Methoxychlor	18.31	227	1103812	12.19 ug/mL#	1
86)	Pyrene	16.42	202	1494500	11.40 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	764908	11.90 ug/mL	97
88)	Benzo[a]anthracene	18.35	228	1385532	11.89 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.34	252	189801	10.49 ug/mL	99
90)	Chrysene	18.40	228	1150485	11.90 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.50	149	1001987	11.47 ug/mL	100
94)	Di-n-octylphthalate	19.49	149	1701976	13.37 ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	964918	12.84 ug/mL	98
96)	Benzo[k]fluoranthene	20.04	252	925098	12.75 ug/mL	97
97)	Benzo[a]pyrene	20.54	252	739236	12.76 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.87	276	413428	12.89 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.95	278	365685	12.77 ug/mL	97
100)	Benzo[g,h,i]perylene	23.54	276	433903	12.65 ug/mL#	92

(#) = qualifier out of range (m) = manual integration

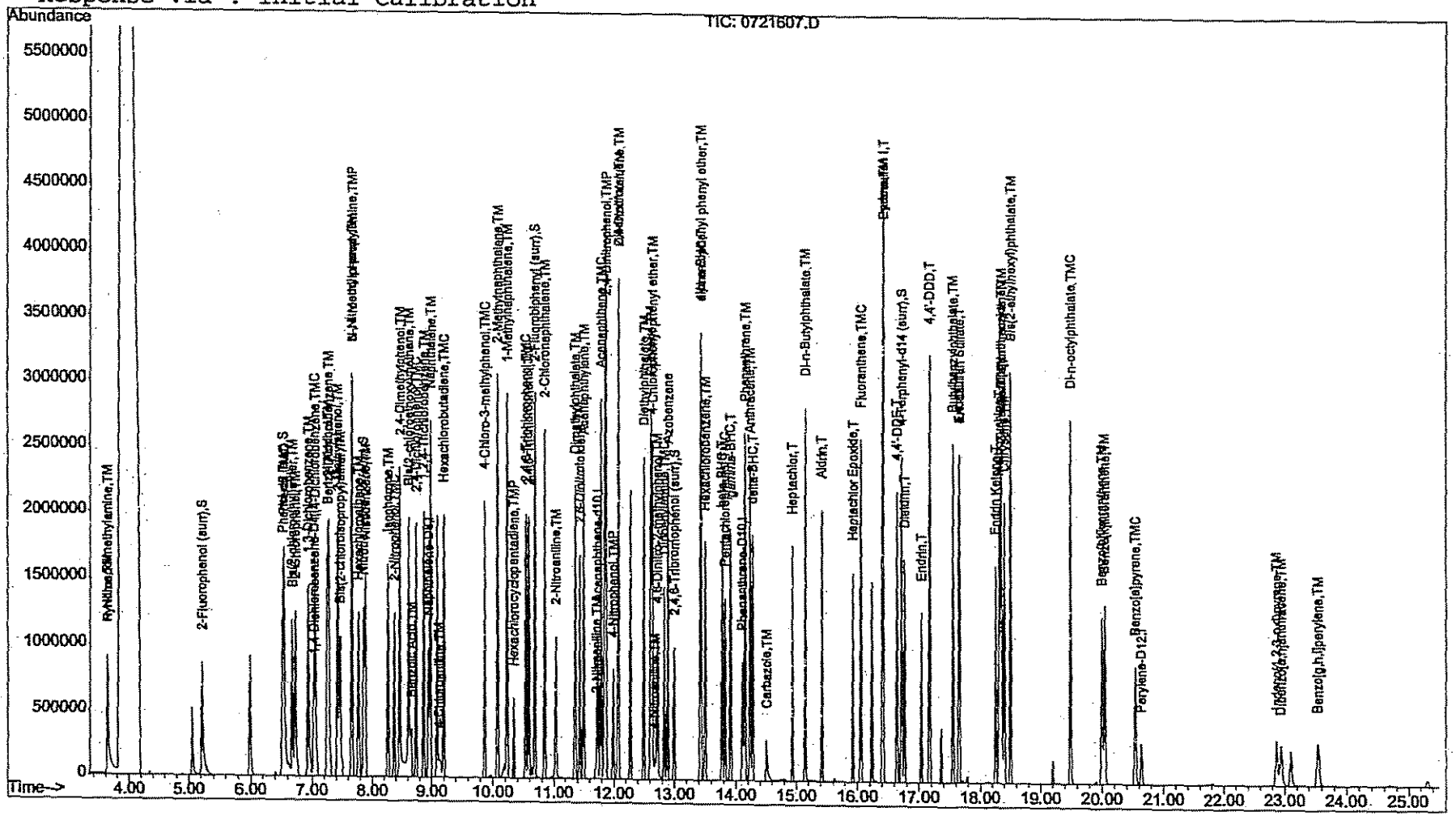
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D
Acq On : 21 Jul 2005 12:08 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005

Vial: 7
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

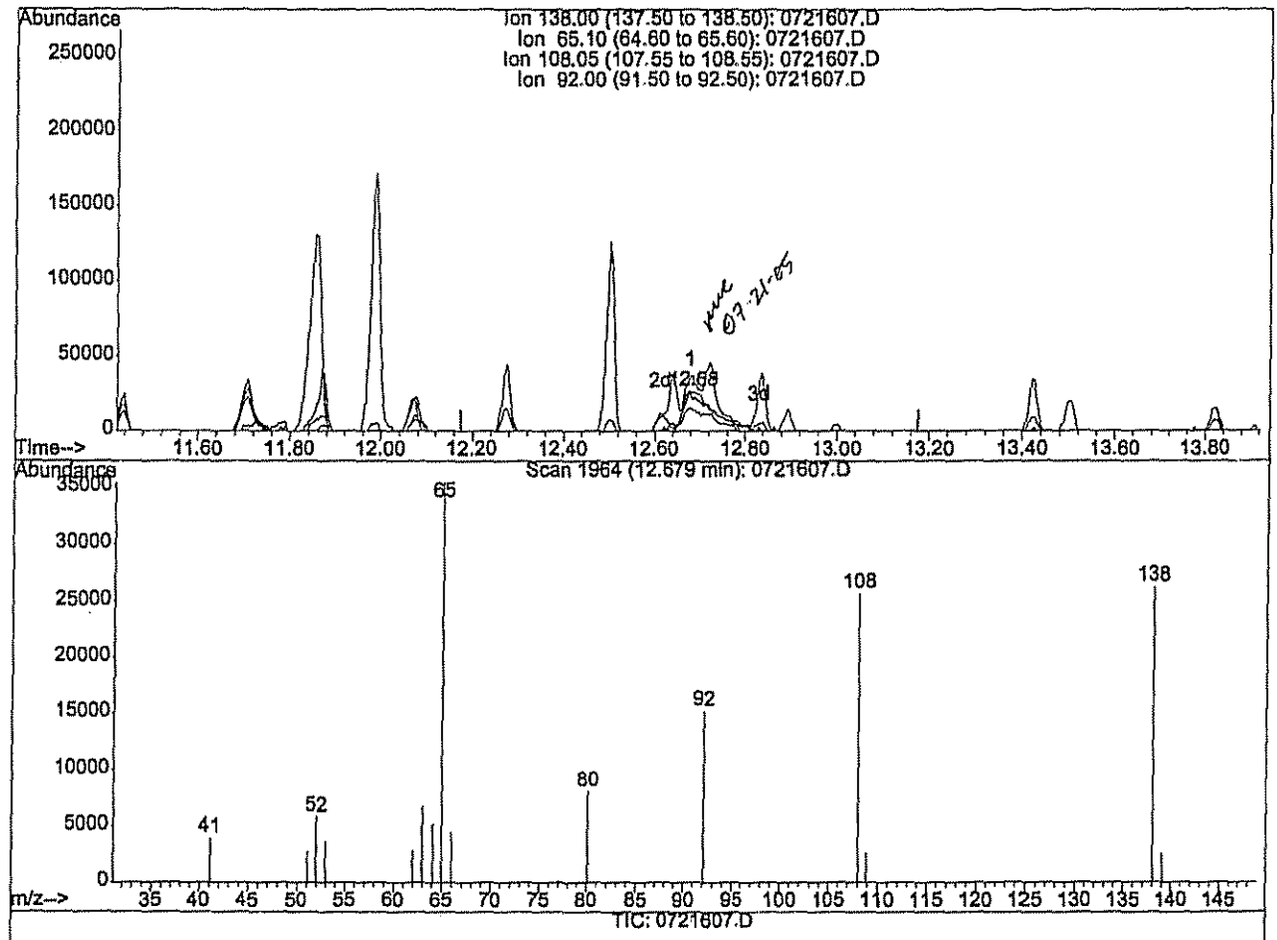


PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721607.D Vial: 7
Acq On : 21 Jul 2005 12:08 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:59 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration



(52) 4-Nitroaniline (TM)

12.68min 11.59ug/mL m

response 124658

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	134.67
108.05	86.20	97.81
92.00	49.30	57.87

0721607.D 8270.M Thu Jul 21 13:59:53 2005 ENV

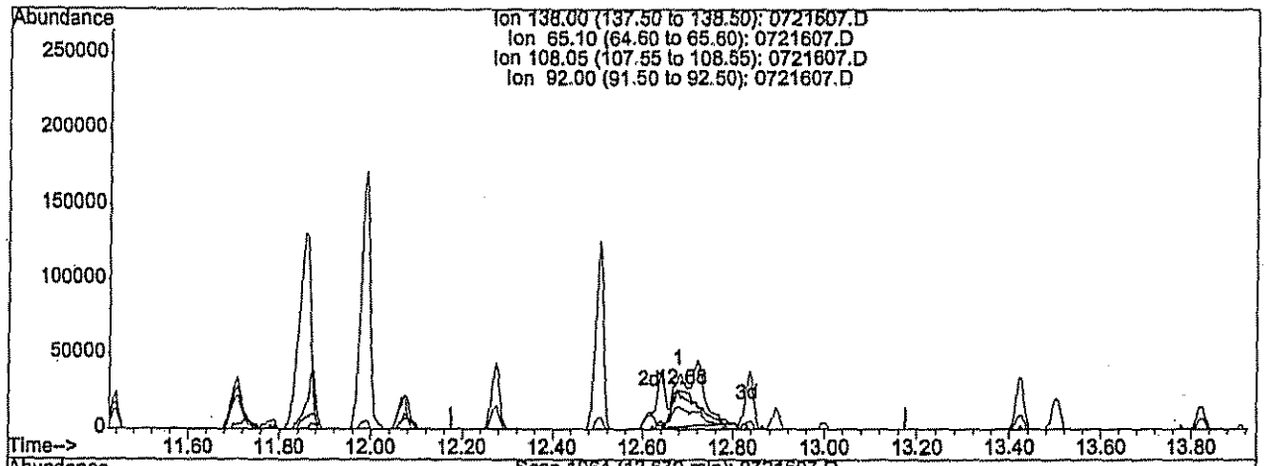
Quantitation Report (Qedit)

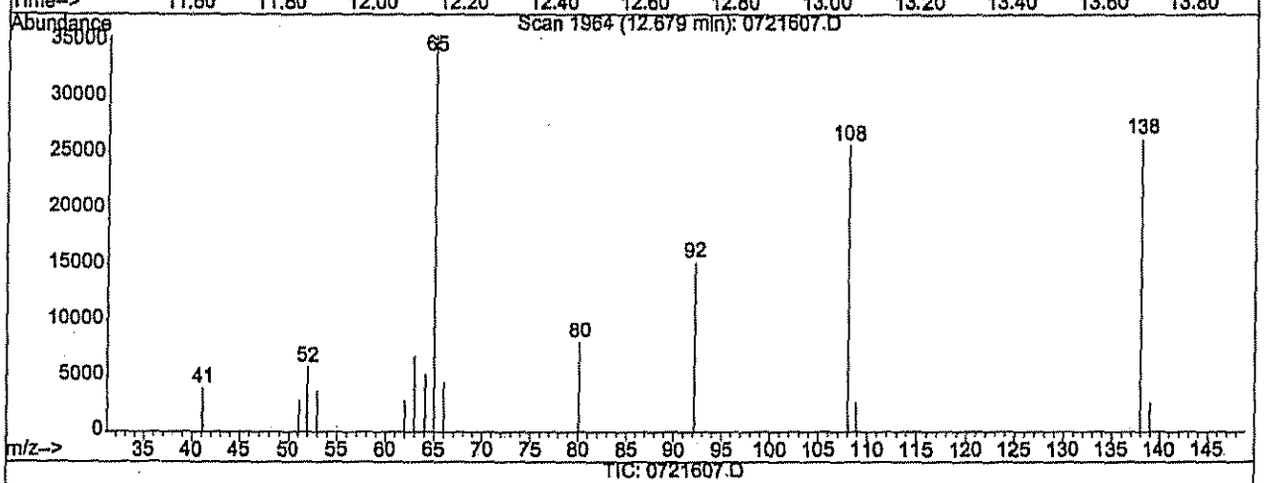
Data File : C:\HPCHEM\1\DATA\6072105\0721607.D
Acq On : 21 Jul 2005 12:08 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 13:58 2005

Vial: 7
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 13:58:28 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.68min 9.13ug/mL

response 98186

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	128.42
108.05	86.20	113.71#
92.00	49.30	53.47

0721607.D 8270.M Thu Jul 21 13:59:49 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.02	152	122278	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	517311	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.73	164	311486	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.11	188	438342	4.00	ug/mL	0.00
85) Chrysene-D12	18.36	240	290404	4.00	ug/mL	0.00
93) Perylene-D12	20.64	264	178109	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.22	112	767267	24.91	ug/mL	0.00
Spiked Amount 10.000			Recovery =		249.10%	
17) Phenol-d6 (surr)	6.52	99	1178414	23.88	ug/mL	0.00
Spiked Amount 10.000			Recovery =		238.80%	
32) Nitrobenzene-d5 (surr)	7.86	128	429092	23.25	ug/mL	0.00
Spiked Amount 10.000			Recovery =		232.50%	
53) 2-Fluorobiphenyl (surr)	10.69	172	1956958	21.75	ug/mL	0.00
Spiked Amount 10.000			Recovery =		217.50%	
54) 2,4,6-Tribromophenol (surr	13.01	330	222758	24.65	ug/mL	0.00
Spiked Amount 10.000			Recovery =		246.50%	
92) 4-Terphenyl-d14 (surr)	16.73	244	1726155	24.44	ug/mL	0.00
Spiked Amount 10.000			Recovery =		244.40%	
Target Compounds						Qvalue
2) Pyridine	3.62	79	790676	29.68	ug/mL#	60
3) N-Nitrosodimethylamine	3.65	74	504774	25.39	ug/mL	98
4) Phenol	6.55	94	1295148	23.39	ug/mL	96
5) Bis(2-chloroethyl)ether	6.67	93	1076487	24.95	ug/mL	99
6) 2-Chlorophenol	6.72	128	982226	23.33	ug/mL	98
7) Benzyl Alcohol	7.25	108	711206	24.34	ug/mL	94
8) 1,3-Dichlorobenzene	6.94	146	951491	23.26	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	980198	23.50	ug/mL	98
10) 1,2-Dichlorobenzene	7.27	146	870437	22.78	ug/mL	96
11) 2-Methylphenol	7.42	107	809500	23.42	ug/mL	97
12) 3-, 4-Methylphenol	7.66	107	1194245	23.87	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.46	45	1175799	23.47	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.67	70	630646	24.17	ug/mL	99
15) Hexachloroethane	7.77	117	392830	24.32	ug/mL	98
19) Nitrobenzene	7.89	77	1163139	23.59	ug/mL	99
20) Isophorone	8.27	82	1738715	23.39	ug/mL	98
21) 2-Nitrophenol	8.37	139	543225	22.04	ug/mL	93
22) 2,4-Dimethylphenol	8.47	122	798095	23.35	ug/mL	98
23) Benzoic Acid	8.71	122	555016	29.06	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.62	93	1121319	22.44	ug/mL	98

(#) = qualifier out of range (m) = manual integration
0721608.D 8270.M Thu Jul 21 14:11:13 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.74	162	824192	22.88	ug/mL	98
26) 1,2,4-Trichlorobenzene	8.87	180	841407	22.23	ug/mL	99
27) Naphthalene	8.99	128	2598909	22.58	ug/mL	100
28) 4-Chloroaniline	9.13	127	452048	23.57	ug/mL	97
29) Hexachlorobutadiene	9.20	225	529509	22.75	ug/mL	96
30) 4-Chloro-3-methylphenol	9.87	107	1012809	24.41	ug/mL	98
31) 2-Methylnaphthalene	10.08	142	1900064	22.74	ug/mL	99
34) Hexachlorocyclopentadiene	10.35	237	197990	23.37	ug/mL	86
35) 2,4,6-Trichlorophenol	10.54	196	649717	22.88	ug/mL	96
36) 2,4,5-Trichlorophenol	10.59	196	664794	23.17	ug/mL	99
37) 2-Chloronaphthalene	10.85	162	1741074	22.15	ug/mL	99
38) 2-Nitroaniline	11.04	65	639191	24.34	ug/mL	95
39) 3-Nitroaniline	11.71	138	95575	18.25	ug/mL	97
40) 1-Methylnaphthalene	10.24	142	1714757	21.91	ug/mL	100
41) Dimethylphthalate	11.37	163	2039985	22.54	ug/mL	99
42) Acenaphthylene	11.51	152	2254921	21.50	ug/mL	100
43) 2,6-Dinitrotoluene	11.44	165	458707	23.82	ug/mL	96
44) Acenaphthene	11.79	153	1572312	22.49	ug/mL	98
45) 2,4-Dinitrophenol	11.88	184	234597	27.55	ug/mL	95
46) 4-Nitrophenol	12.00	109	289989	26.46	ug/mL	90
47) Dibenzofuran	12.08	168	2535076	22.47	ug/mL	100
48) 2,4-Dinitrotoluene	12.09	165	556493	23.37	ug/mL#	80
49) Fluorene	12.62	166	1889210	22.68	ug/mL	99
50) Diethylphthalate	12.51	149	1879831	22.73	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.65	204	966295	21.95	ug/mL	95
52) 4-Nitroaniline	12.69	138	184702m	19.82	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.73	198	345263	26.71	ug/mL	97
57) Diphenylamine	12.84	169	872804	18.92	ug/mL	98
58) 4-bromophenyl phenyl ether	13.43	248	536708	21.71	ug/mL	95
59) Hexachlorobenzene	13.51	284	523566	22.28	ug/mL	98
60) Pentachlorophenol	13.83	266	373486	24.86	ug/mL	96
61) Phenanthrene	14.15	178	2489812	22.35	ug/mL	99
62) Carbazole	14.51	167	567714	14.29	ug/mL	95
63) Anthracene	14.24	178	2301652	22.35	ug/mL	100
64) Azobenzene	12.90	77	2181823	22.51	ug/mL	99
65) Di-n-Butylphthalate	15.15	149	3004141	22.11	ug/mL	100
66) Fluoranthene	16.07	202	2552565	22.88	ug/mL	100
67) alpha-BHC	13.44	183	389091	21.86	ug/mL	100
68) beta-BHC	13.78	181	315495	22.75	ug/mL	98
69) gamma-BHC	13.92	183	329269	22.91	ug/mL	99
70) delta-BHC	14.28	183	297338	23.06	ug/mL	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	393961	23.74 ug/mL	98
72)	Aldrin	15.42	66	403178	22.29 ug/mL	99
73)	Heptachlor Epoxide	15.93	353	139994	23.08 ug/mL	98
74)	Endosulfan I	16.42	195	102123	22.20 ug/mL	93
75)	4,4'-DDE	16.65	246	600743	23.19 ug/mL	99
76)	Dieldrin	16.77	79	498423	22.19 ug/mL	98
77)	Endrin	17.05	263	99145	27.37 ug/mL	97
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.18	235	1043672	22.49 ug/mL	100
80)	Endosulfan Sulfate	17.65	272	137631	23.32 ug/mL	99
81)	4,4'-DDT	17.66	235	845021	23.90 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.26	317	112485	23.58 ug/mL	94
84)	Methoxychlor	18.32	227	1758776	22.52 ug/mL#	1
86)	Pyrene	16.42	202	2457147	23.89 ug/mL	99
87)	Butylbenzylphthalate	17.55	149	1250098	24.61 ug/mL	98
88)	Benzo[a]anthracene	18.35	228	2175634	23.64 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.35	252	323629	23.09 ug/mL	95
90)	Chrysene	18.41	228	1791111	23.45 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.51	149	1617949	23.59 ug/mL	98
94)	Di-n-octylphthalate	19.50	149	2626082	25.49 ug/mL	100
95)	Benzo[b]fluoranthene	20.00	252	1468444	24.33 ug/mL	99
96)	Benzo[k]fluoranthene	20.05	252	1375119	23.63 ug/mL	99
97)	Benzo[a]pyrene	20.55	252	1152135	24.77 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.89	276	683190	26.51 ug/mL	97
99)	Dibenzo[a,h]anthracene	22.96	278	648916	28.24 ug/mL	98
100)	Benzo[g,h,i]perylene	23.56	276	700898	25.50 ug/mL	96

(#) = qualifier out of range (m) = manual integration

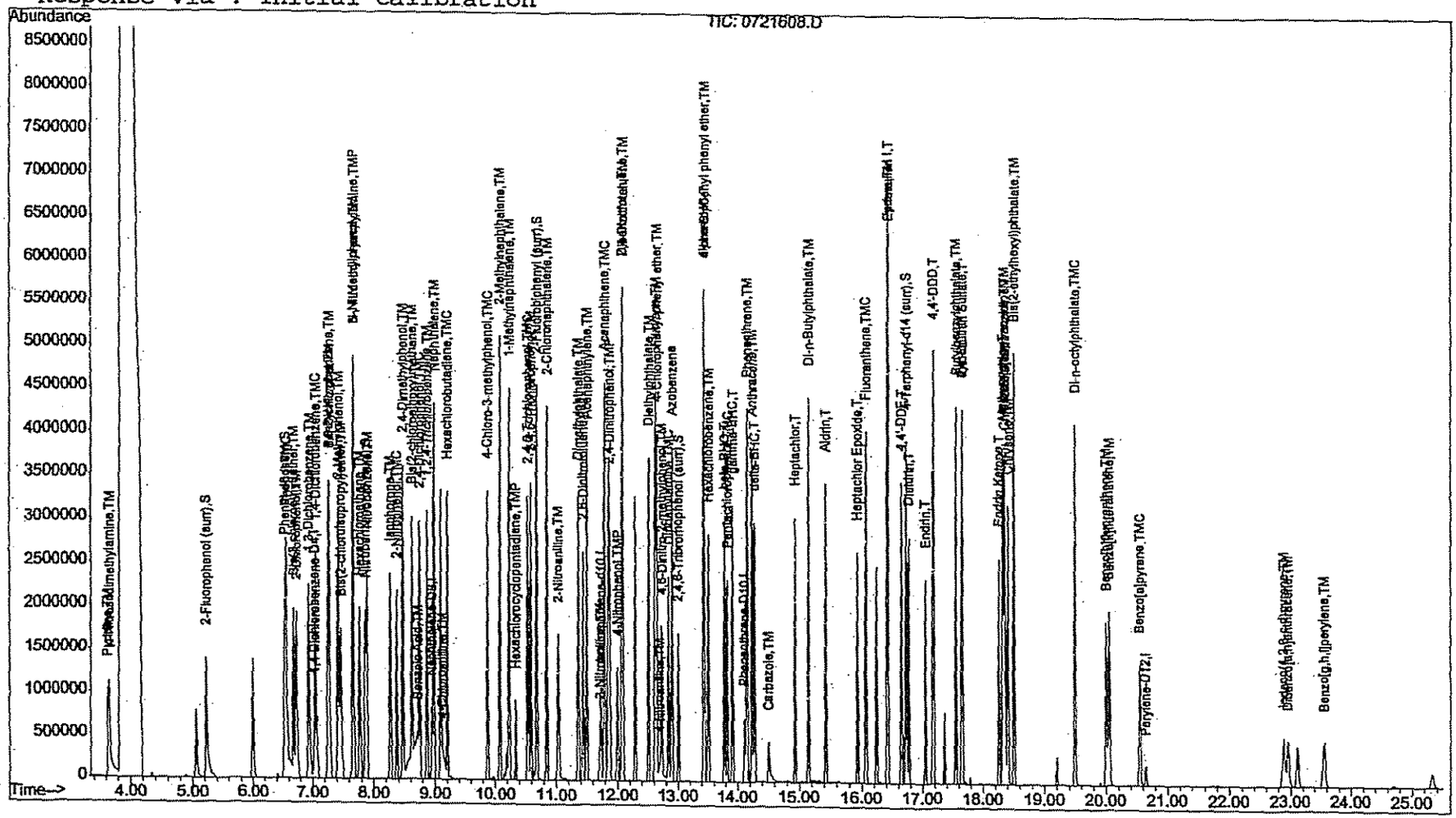
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

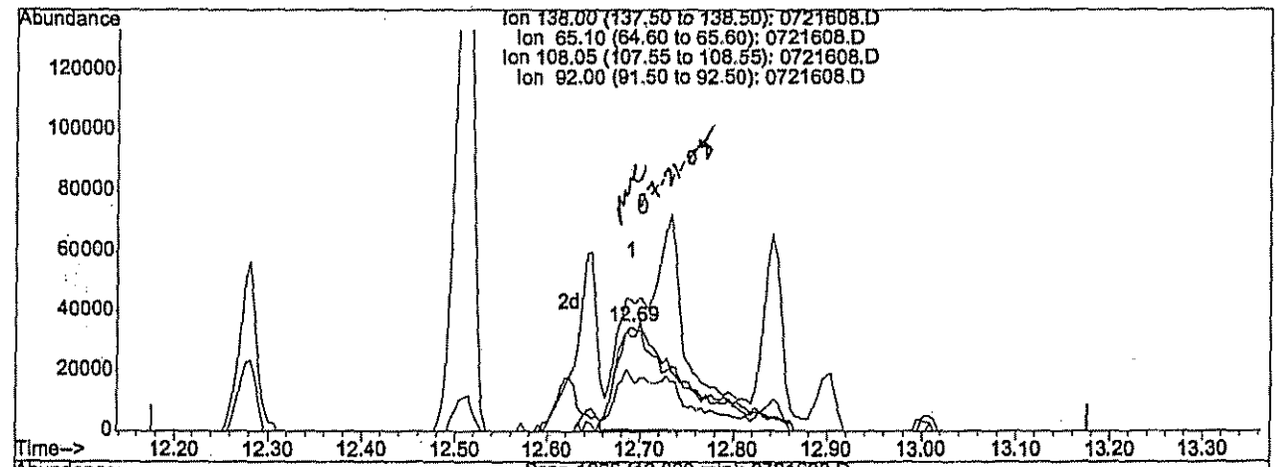


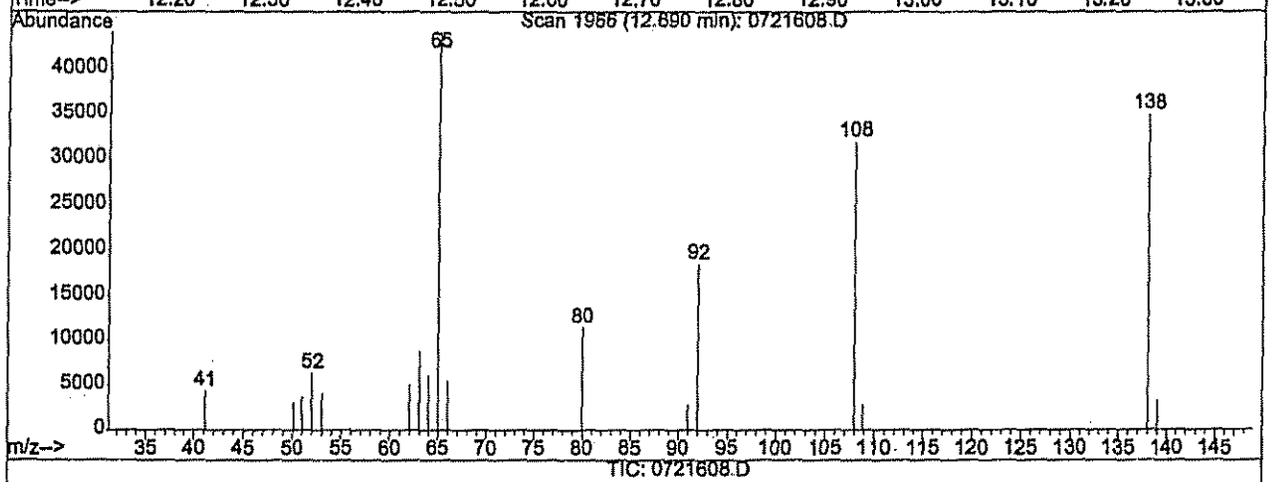
0721608.D 8270.M Thu Jul 21 14:11:18 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D Vial: 8
Acq On : 21 Jul 2005 12:42 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:01 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration





TIC: 0721608.D

(52) 4-Nitroaniline (TM)

12.69min 19.82ug/mL m

response 184702

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	126.02
108.05	86.20	91.30
92.00	49.30	52.96

0721608.D 8270.M Thu Jul 21 14:01:18 2005 ENV

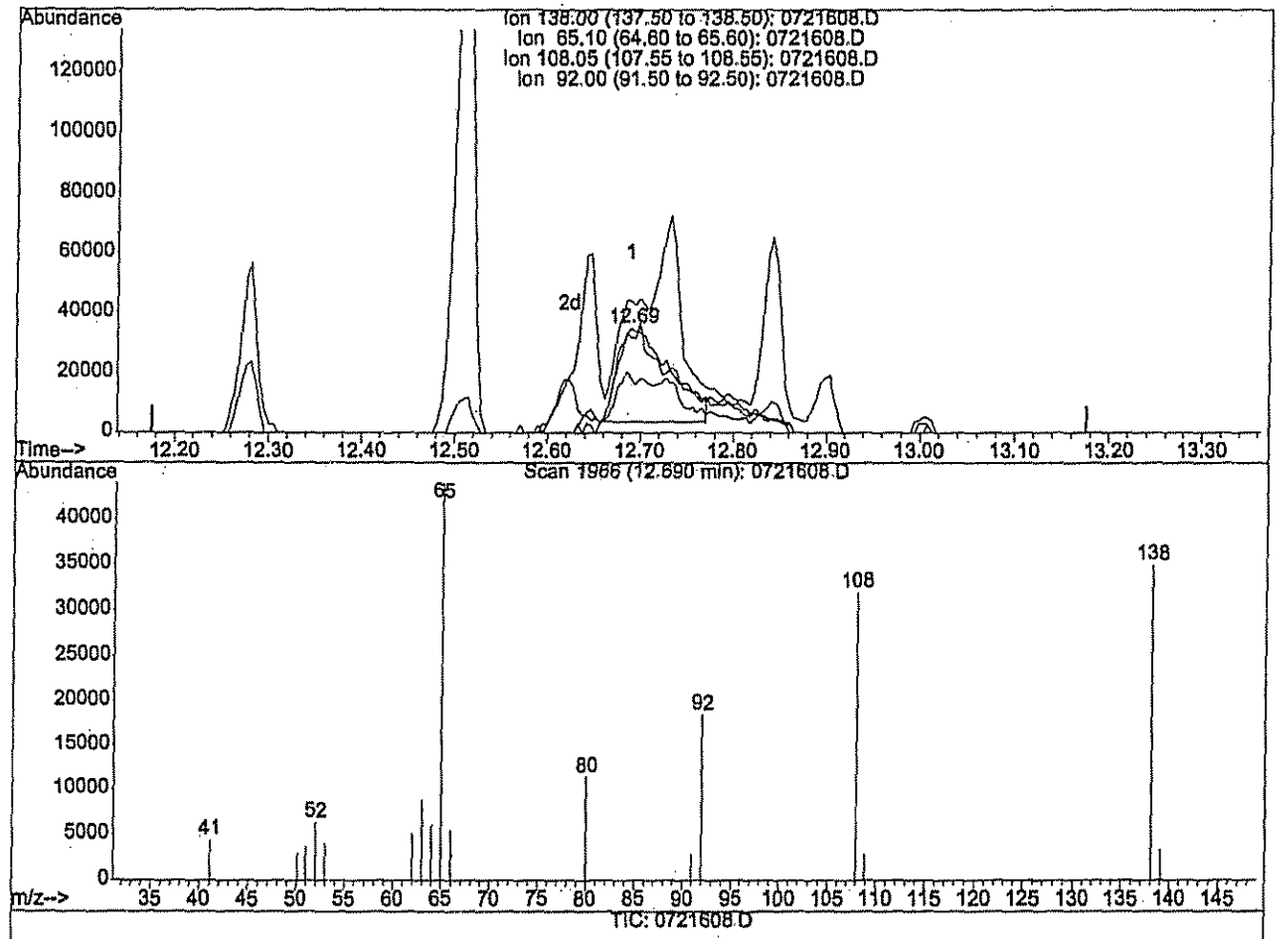
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721608.D
Acq On : 21 Jul 2005 12:42 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:00 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:00:30 2005
Response via : Multiple Level Calibration



(52) 4-Nitroaniline (TM)

12.69min 13.35ug/mL

response 124374

Ion	Exp%	Act%
138.00	100	100
65.10	114.90	90.90#
108.05	86.20	91.66
92.00	49.30	48.24

0721608.D 8270.M Thu Jul 21 14:01:15 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mmc 07-21-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.03	152	138333	4.00	ug/mL	0.00
18) Naphthalene-D8	8.95	136	571046	4.00	ug/mL	0.01
33) Acenaphthene-d10	11.74	164	330788	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.12	188	486108	4.00	ug/mL	0.02
85) Chrysene-D12	18.38	240	294995	4.00	ug/mL	0.02
93) Perylene-D12	20.65	264	187831	4.00	ug/mL	0.01
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.24	112	1650145	47.11	ug/mL	0.03
Spiked Amount 10.000			Recovery =		471.10%	
17) Phenol-d6 (surr)	6.55	99	2491299	44.66	ug/mL	0.04
Spiked Amount 10.000			Recovery =		446.60%	
32) Nitrobenzene-d5 (surr)	7.88	128	901982	44.48	ug/mL	0.02
Spiked Amount 10.000			Recovery =		444.80%	
53) 2-Fluorobiphenyl (surr)	10.70	172	4156107	44.09	ug/mL	0.02
Spiked Amount 10.000			Recovery =		440.90%	
54) 2,4,6-Tribromophenol (surr	13.02	330	498196	51.72	ug/mL	0.02
Spiked Amount 10.000			Recovery =		517.20%	
92) 4-Terphenyl-d14 (surr)	16.74	244	3880768	53.95	ug/mL	0.02
Spiked Amount 10.000			Recovery =		539.50%	

Target Compounds						Qvalue
2) Pyridine	3.69	79	1476355	47.39	ug/mL#	49
3) N-Nitrosodimethylamine	3.76	74	1076360	47.46	ug/mL	97
4) Phenol	6.57	94	2655754	42.55	ug/mL	91
5) Bis(2-chloroethyl)ether	6.69	93	2210528	45.03	ug/mL	96
6) 2-Chlorophenol	6.73	128	2096352	44.19	ug/mL	98
7) Benzyl Alcohol	7.27	108	1530858	46.21	ug/mL	99
8) 1,3-Dichlorobenzene	6.95	146	2063502	44.79	ug/mL	99
9) 1,4-Dichlorobenzene	7.05	146	2120732	45.07	ug/mL	96
10) 1,2-Dichlorobenzene	7.28	146	1872214	43.63	ug/mL	97
11) 2-Methylphenol	7.44	107	1718537	44.11	ug/mL	98
12) 3-, 4-Methylphenol	7.69	107	2540246	44.91	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.48	45	2450397	43.37	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.72	70	1323968	44.80	ug/mL	99
15) Hexachloroethane	7.77	117	838678	45.81	ug/mL	96
19) Nitrobenzene	7.91	77	2438424	44.92	ug/mL	97
20) Isophorone	8.29	82	3639656	44.51	ug/mL	99
21) 2-Nitrophenol	8.38	139	1127836	41.94	ug/mL	90
22) 2,4-Dimethylphenol	8.49	122	1708411	45.46	ug/mL	97
23) Benzoic Acid	8.81	122	1289762m	59.39	ug/mL	
24) Bis(2-chloroethoxy)methane	8.64	93	2395212	43.84	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.76	162	1763969	44.66	ug/mL	100
26) 1,2,4-Trichlorobenzene	8.88	180	1786571	43.21	ug/mL	99
27) Naphthalene	9.00	128	5561051	44.14	ug/mL	99
28) 4-Chloroaniline	9.12	127	964869	45.70	ug/mL	93
29) Hexachlorobutadiene	9.21	225	1108264	43.47	ug/mL	99
30) 4-Chloro-3-methylphenol	9.89	107	2135601	46.52	ug/mL	96
31) 2-Methylnaphthalene	10.09	142	4124998	45.07	ug/mL	100
34) Hexachlorocyclopentadiene	10.35	237	510983	57.01	ug/mL	94
35) 2,4,6-Trichlorophenol	10.55	196	1377041	45.97	ug/mL	97
36) 2,4,5-Trichlorophenol	10.60	196	1415089	46.67	ug/mL	98
37) 2-Chloronaphthalene	10.86	162	3672397	44.48	ug/mL	99
38) 2-Nitroaniline	11.05	65	1314610	47.04	ug/mL	97
39) 3-Nitroaniline	11.73	138	343703	64.00	ug/mL	99
40) 1-Methylnaphthalene	10.25	142	3664028	44.64	ug/mL	99
41) Dimethylphthalate	11.39	163	4298422	45.11	ug/mL	99
42) Acenaphthylene	11.51	152	4006778	36.52	ug/mL	99
43) 2,6-Dinitrotoluene	11.47	165	955941	46.79	ug/mL	93
44) Acenaphthene	11.80	153	3345032	45.46	ug/mL	99
45) 2,4-Dinitrophenol	11.90	184	534022	57.83	ug/mL	92
46) 4-Nitrophenol	12.03	109	654508	55.43	ug/mL	88
47) Dibenzofuran	12.09	168	5369727	45.22	ug/mL	97
48) 2,4-Dinitrotoluene	12.11	165	1202675	47.74	ug/mL#	69
49) Fluorene	12.64	166	4046417	46.11	ug/mL	97
50) Diethylphthalate	12.53	149	3933544	45.12	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.66	204	2031555	44.00	ug/mL	99
52) 4-Nitroaniline	12.71	138	312190	32.35	ug/mL	96
56) 4,6-Dinitro-2-methylphenol	12.76	198	791020	54.30	ug/mL	98
57) Diphenylamine	12.86	169	1165025	23.49	ug/mL	98
58) 4-bromophenyl phenyl ether	13.44	248	1143229	42.28	ug/mL	95
59) Hexachlorobenzene	13.52	284	1119880	43.41	ug/mL	93
60) Pentachlorophenol	13.84	266	838397	50.07	ug/mL	96
61) Phenanthrene	14.17	178	5355876	43.79	ug/mL	100
62) Carbazole	14.51	167	1588003	38.25	ug/mL	96
63) Anthracene	14.25	178	4995947	44.18	ug/mL	99
64) Azobenzene	12.91	77	4558234	42.78	ug/mL	99
65) Di-n-Butylphthalate	15.17	149	6461969	43.37	ug/mL	99
66) Fluoranthene	16.08	202	5691271	46.31	ug/mL	99
67) alpha-BHC	13.46	183	781602	40.19	ug/mL	98
68) beta-BHC	13.80	181	673622	44.19	ug/mL	98
69) gamma-BHC	13.93	183	687108	43.44	ug/mL	99
70) delta-BHC	14.29	183	627548	44.17	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.94	100	825315	44.93 ug/mL	97
72)	Aldrin	15.43	66	837302	42.24 ug/mL	99
73)	Heptachlor Epoxide	15.94	353	314041	46.99 ug/mL	99
74)	Endosulfan I	16.44	195	199433	39.59 ug/mL#	90
75)	4,4'-DDE	16.66	246	1321162	46.24 ug/mL	99
76)	Dieldrin	16.78	79	1073980	43.66 ug/mL	100
77)	Endrin	17.05	263	215277	52.36 ug/mL	95
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.19	235	2138856	41.99 ug/mL	100
80)	Endosulfan Sulfate	17.66	272	218295	33.51 ug/mL	96
81)	4,4'-DDT	17.67	235	1691455	43.17 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.28	317	215637	40.88 ug/mL	97
84)	Methoxychlor	18.33	227	3275066	38.20 ug/mL#	1
86)	Pyrene	16.44	202	5512649	52.80 ug/mL#	95
87)	Butylbenzylphthalate	17.57	149	2421942	46.76 ug/mL	99
88)	Benzo[a]anthracene	18.37	228	4376023	46.90 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.36	252	695288	49.10 ug/mL	93
90)	Chrysene	18.43	228	3569644	46.15 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.51	149	3131724	45.05 ug/mL	99
94)	Di-n-octylphthalate	19.50	149	5035785	45.95 ug/mL	100
95)	Benzo[b]fluoranthene	20.02	252	3007680	47.16 ug/mL	99
96)	Benzo[k]fluoranthene	20.07	252	2570961	41.98 ug/mL	98
97)	Benzo[a]pyrene	20.57	252	2306545	46.82 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	22.91	276	1691539	61.31 ug/mL	92
99)	Dibenzo[a,h]anthracene	22.98	278	1594726	64.18 ug/mL	97
100)	Benzo[g,h,i]perylene	23.59	276	1694824	57.95 ug/mL	96

(#) = qualifier out of range (m) = manual integration

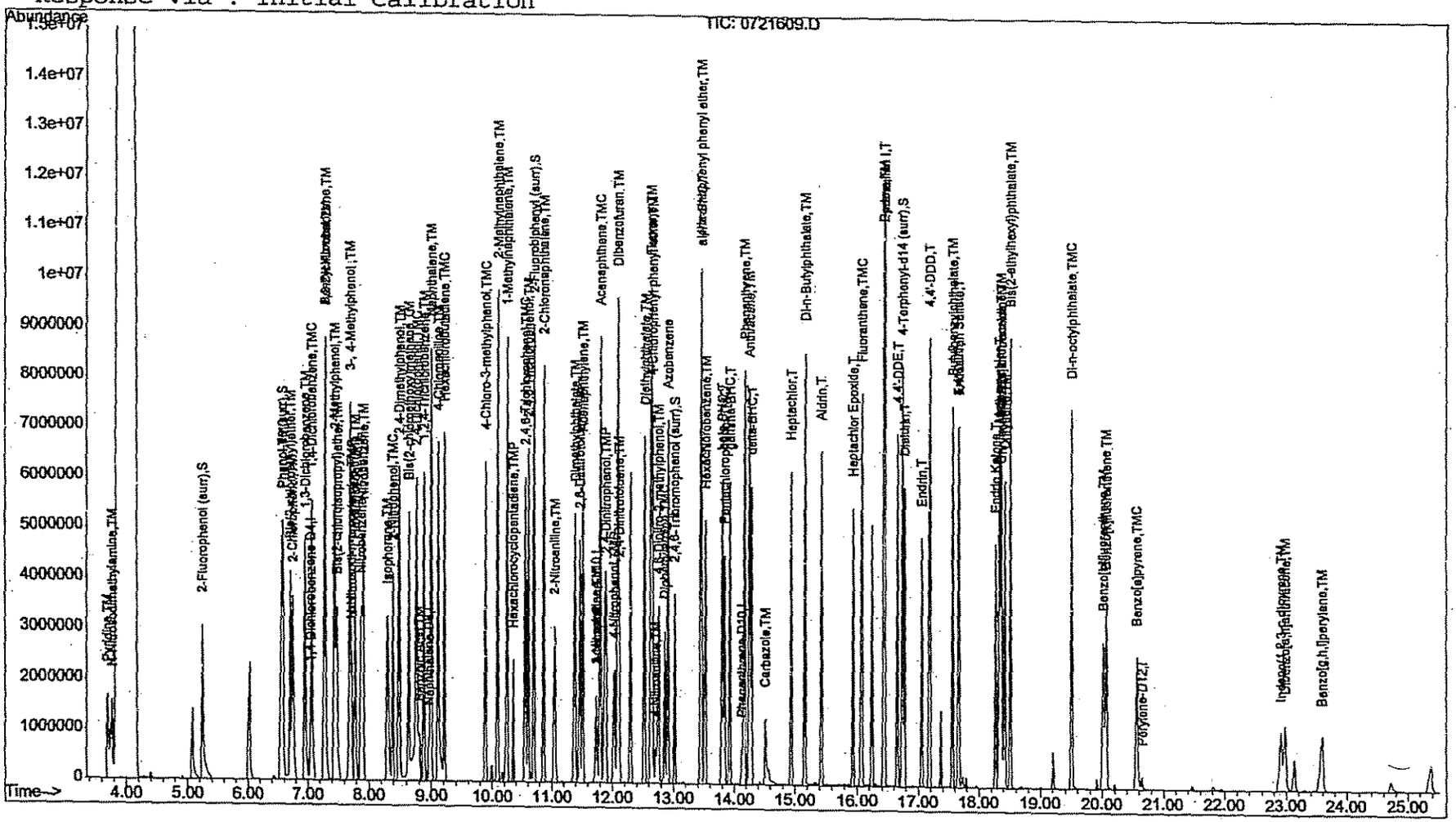
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D
Acq On : 21 Jul 2005 1:16 pm
Sample : SVCAL48
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005

Vial: 9
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration



0721609.D 8270.M Thu Jul 21 14:11:30 2005 ENV

Page 4

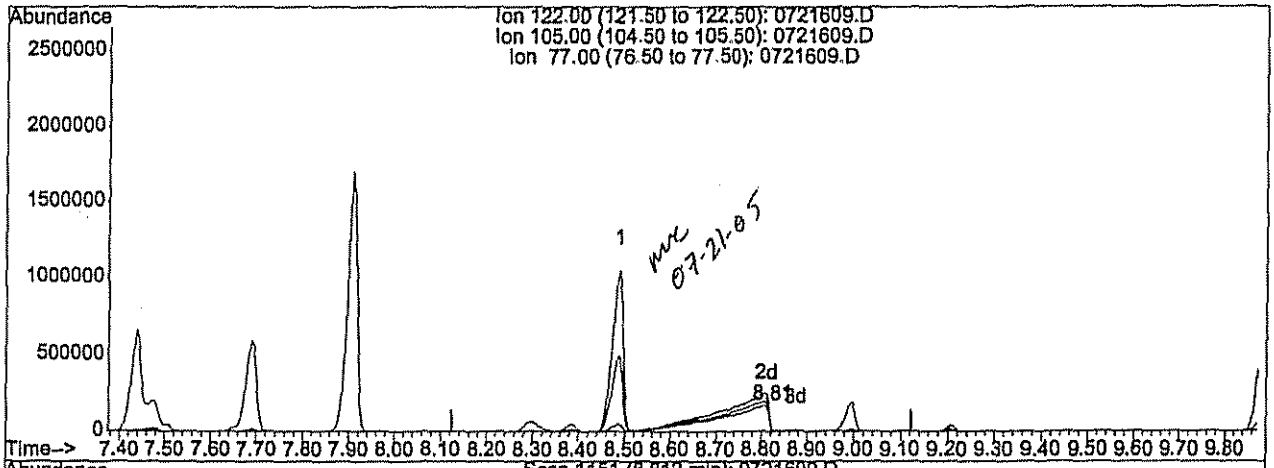
PARADIGM ANALYTICAL LABORATORIES, INC.

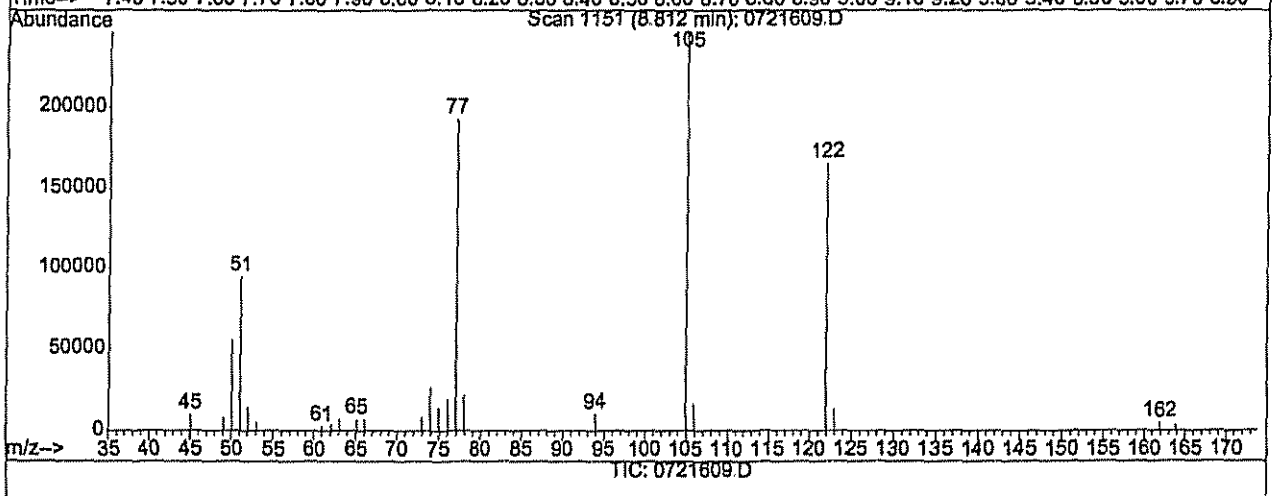
NC CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (TM)

8.81min 59.39ug/mL m

response 1289762

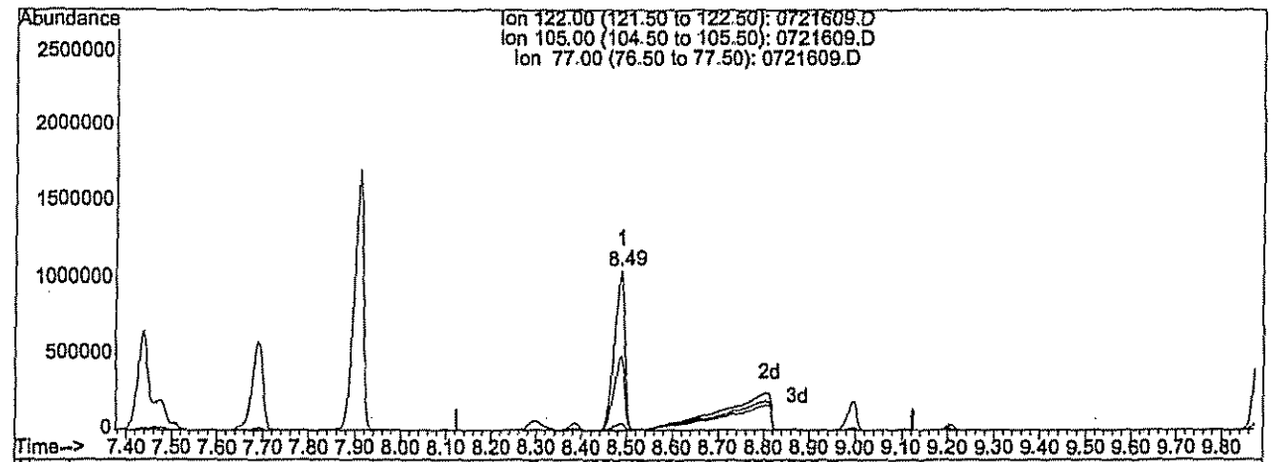
Ion	Exp%	Act%
122.00	100	100
105.00	143.90	5.75#
77.00	115.50	62.60#
0.00	0.00	0.00

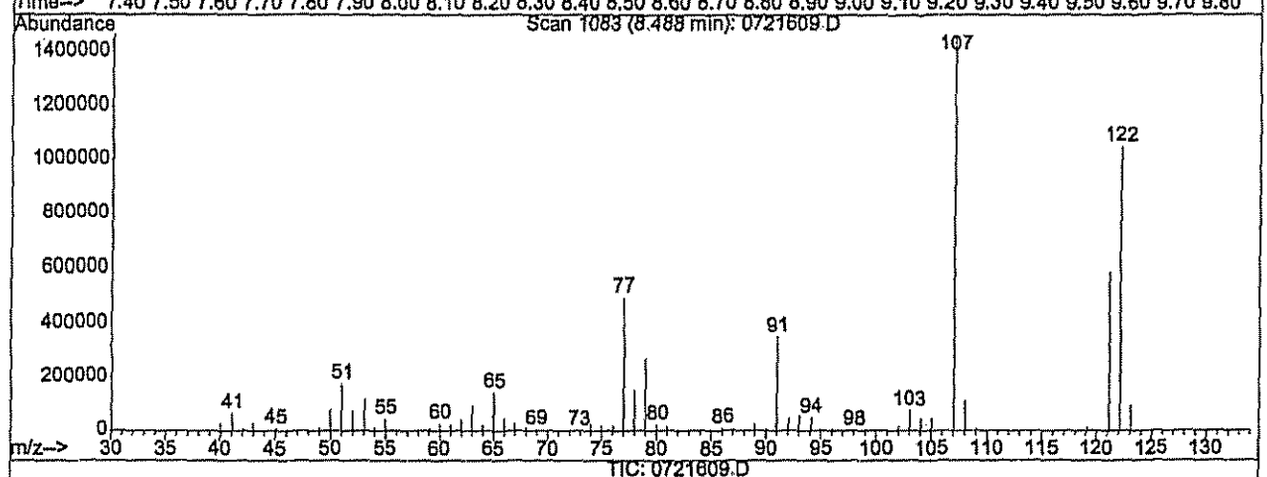
0721609.D 8270.M Thu Jul 21 14:02:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721609.D Vial: 9
Acq On : 21 Jul 2005 1:16 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 21 14:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:01:45 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (TM)

8.49min 78.66ug/mL

response 1708411

Ion	Exp%	Act%
122.00	100	100
105.00	143.90	4.34#
77.00	115.50	47.26#
0.00	0.00	0.00

0721609.D 8270.M Thu Jul 21 14:02:19 2005 ENV

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD7
Method ; 8270.M
Matrix ; NA
Cal. Date ; 4 Aug 2005 1:42 pm
Last Modified ; Thu Aug 04 14:27:00 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\MSDCHEM\1\DATA\7080405\0804709.D
24 ; C:\MSDCHEM\1\DATA\7080405\0804708.D
12 ; C:\MSDCHEM\1\DATA\7080405\0804707.D
8 ; C:\MSDCHEM\1\DATA\7080405\0804706.D
6 ; C:\MSDCHEM\1\DATA\7080405\0804705.D
4 ; C:\MSDCHEM\1\DATA\7080405\0804704.D
2 ; C:\MSDCHEM\1\DATA\7080405\0804703.D
1 ; C:\MSDCHEM\1\DATA\7080405\0804702.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	48.0	24.0	12.0	8.0	6.0	4.0	2.0	1.0		
Pyridine		0.728	0.724	0.779	0.708	0.716	0.803	0.423	0.697	18.046
N-Nitrosodimethylamine		0.530	0.524	0.544	0.573	0.545	0.551	0.491	0.537	4.771
Phenol	1.379	1.267	1.141	1.119	1.067	0.988	1.013	0.893	1.108	14.108
Bis(2-chloroethyl)ether	0.973	0.958	0.876	0.950	0.995	0.865	0.985	1.263	0.983	12.498
2-Chlorophenol	1.133	1.258	1.282	1.225	1.334	1.234	1.217	1.132	1.227	5.643
Benzyl Alcohol	0.801	0.824	0.803	0.753	0.814	0.714	0.649	0.503	0.733	15.014
1,3-Dichlorobenzene	1.167	1.287	1.328	1.283	1.387	1.317	1.321	1.335	1.303	4.882
1,4-Dichlorobenzene	1.184	1.336	1.405	1.339	1.449	1.393	1.420	1.399	1.366	6.056
1,2-Dichlorobenzene	1.085	1.211	1.263	1.208	1.329	1.269	1.274	1.313	1.244	6.191
2-Methylphenol	0.777	0.902	0.984	0.949	1.018	0.968	0.945	0.875	0.927	8.137
3-, 4-Methylphenol	1.095	1.241	1.361	1.293	1.414	1.263	1.278	1.112	1.257	8.749
Bis(2-chloroisopropyl)ether	1.407	1.719	1.880	1.826	2.081	2.047	2.067	2.183	1.901	13.239
N-Nitrosodi-n-propylamine	0.532	0.646	0.666	0.641	0.717	0.654	0.668	0.642	0.646	8.084
Hexachloroethane	0.329	0.412	0.466	0.452	0.506	0.484	0.494	0.495	0.455	12.941
2-Fluorophenol (surr)	0.962	0.990	1.002	0.931	0.969	0.923	0.755	0.605	0.892	15.621
Phenol-d6 (surr)	1.251	1.390	1.391	1.330	1.429	1.292	1.310	1.180	1.322	6.201
Nitrobenzene	0.245	0.276	0.293	0.281	0.305	0.289	0.290	0.264	0.280	6.634
Isophorone	0.406	0.422	0.439	0.417	0.456	0.445	0.444	0.446	0.434	3.977
2-Nitrophenol	0.169	0.180	0.183	0.173	0.182	0.166	0.157	0.138	0.168	8.981
2,4-Dimethylphenol	0.223	0.237	0.254	0.240	0.243	0.236	0.221	0.197	0.231	7.516
Benzoic Acid	0.173	0.165	0.157	0.143	0.128	0.111	0.104	0.048	0.129	31.772
Bis(2-chloroethoxy)methane	0.278	0.309	0.332	0.319	0.342	0.323	0.317	0.298	0.315	6.348
2,4-Dichlorophenol	0.213	0.239	0.247	0.227	0.242	0.221	0.211	0.165	0.221	11.811
1,2,4-Trichlorobenzene	0.216	0.239	0.255	0.242	0.260	0.253	0.246	0.244	0.244	5.506
Naphthalene	0.628	0.761	0.831	0.796	0.875	0.843	0.842	0.857	0.804	9.897
4-Chloroaniline	0.080	0.098	0.108	0.100	0.109	0.103	0.103	0.095	0.100	9.022
Hexachlorobutadiene	0.100	0.115	0.126	0.119	0.128	0.126	0.126	0.124	0.121	7.849
4-Chloro-3-methylphenol	0.212	0.238	0.247	0.235	0.250	0.226	0.226	0.189	0.228	8.681
2-Methylnaphthalene	0.484	0.573	0.633	0.602	0.670	0.653	0.668	0.663	0.618	10.371
Nitrobenzene-d5 (surr)	0.127	0.133	0.135	0.128	0.135	0.124	0.118	0.104	0.125	8.455
Hexachlorocyclopentadiene	0.106	0.096	0.086	0.078	0.060	0.046	0.042	0.011	0.066	48.721
2,4,6-Trichlorophenol	0.285	0.325	0.346	0.332	0.353	0.330	0.324	0.307	0.325	6.584
2,4,5-Trichlorophenol	0.309	0.366	0.380	0.370	0.381	0.352	0.346	0.299	0.350	8.889
2-Chloronaphthalene	0.793	0.932	1.004	0.978	1.047	1.028	1.012	0.979	0.971	8.244
2-Nitroaniline	0.274	0.283	0.253	0.234	0.269	0.233	0.225	0.183	0.244	13.273
3-Nitroaniline	0.021	0.024	0.026	0.026	0.027	0.024	0.017		0.024	14.854
1-Methylnaphthalene	0.860	1.056	1.187	1.117	1.252	1.233	1.225	1.240	1.147	11.724
Dimethylphthalate	0.987	1.079	1.120	1.075	1.161	1.116	1.135	1.142	1.102	4.986
Acenaphthylene		1.187	1.481	1.438	1.601	1.527	1.563	1.575	1.482	9.547
2,6-Dinitrotoluene	0.204	0.228	0.251	0.240	0.255	0.236	0.235	0.221	0.234	6.983
Acenaphthene	0.782	0.930	1.009	0.987	1.063	1.034	1.049	1.059	0.989	9.589
2,4-Dinitrophenol	0.168	0.175	0.168	0.155	0.157	0.127	0.140	0.131	0.153	11.803
4-Nitrophenol	0.104	0.106	0.098	0.089	0.077	0.044	0.008		0.075	48.540
Dibenzofuran	1.177	1.390	1.486	1.435	1.567	1.490	1.531	1.576	1.457	8.868
2,4-Dinitrotoluene	0.288	0.320	0.322	0.313	0.334	0.307	0.314	0.302	0.312	4.431
Fluorene	0.855	1.021	1.083	1.066	1.142	1.092	1.129	1.150	1.067	8.969
Diethylphthalate	0.892	1.037	1.095	1.066	1.161	1.120	1.126	1.171	1.083	8.277
4-Chlorophenyl phenyl ether	0.412	0.489	0.509	0.501	0.535	0.521	0.531	0.508	0.501	7.772
4-Nitroaniline		0.102	0.098	0.101	0.087	0.041	0.012		0.074	51.454
2-Fluorobiphenyl (surr)	0.864	1.031	1.136	1.107	1.190	1.162	1.161	1.148	1.100	9.708
2,4,6-Tribromophenol (surr)	0.122	0.136	0.134	0.130	0.133	0.121	0.111	0.099	0.123	10.507
4,6-Dinitro-2-methylphenol	0.133	0.137	0.135	0.126	0.124	0.104	0.091	0.061	0.114	23.421
Diphenylamine			0.216	0.213	0.262	0.266	0.262	0.300	0.253	13.195
4-bromophenyl phenyl ether	0.127	0.156	0.179	0.176	0.191	0.190	0.183	0.176	0.172	12.305
Hexachlorobenzene	0.150	0.169	0.185	0.179	0.193	0.189	0.187	0.182	0.179	7.864
Pentachlorophenol	0.106	0.119	0.109	0.094	0.087	0.062			0.096	21.304
Phenanthrene	0.820	0.950	1.033	0.998	1.097	1.050	1.076	1.104	1.016	9.293

Carbazole	0.232	0.209	0.220	0.212	0.228	0.223	0.219	0.253	0.225	6.139
Anthracene	0.777	0.902	0.969	0.939	1.027	0.989	0.998	1.010	0.951	8.512
Azobenzene	0.530	0.630	0.721	0.701	0.772	0.760	0.744	0.785	0.705	12.196
Di-n-Butylphthalate	0.915	1.095	1.201	1.186	1.312	1.286	1.277	1.303	1.197	11.341
Fluoranthene	0.810	0.927	0.990	0.935	1.017	0.950	0.973	0.991	0.949	6.724
alpha-BHC	0.088	0.107	0.121	0.120	0.132	0.134	0.133	0.126	0.120	12.987
beta-BHC	0.076	0.100	0.108	0.104	0.114	0.108	0.102	0.095	0.101	11.388
gamma-BHC	0.085	0.100	0.110	0.107	0.117	0.117	0.116	0.115	0.108	10.441
delta-BHC	0.080	0.093	0.101	0.098	0.105	0.102	0.102	0.094	0.097	8.232
Heptachlor		0.120	0.138	0.134	0.152	0.147	0.149	0.150	0.141	8.290
Aldrin		0.108	0.127	0.126	0.142	0.143	0.144	0.147	0.134	10.634
Heptachlor Epoxide	0.046	0.054	0.055	0.054	0.057	0.058	0.055	0.051	0.054	6.676
Endosulfan I		0.024	0.031	0.031	0.037	0.035	0.032	0.029	0.031	12.457
4,4'-DDE	0.153	0.185	0.205	0.199	0.215	0.209	0.207	0.210	0.198	10.227
Dieldrin			0.158	0.162	0.185	0.187	0.190	0.196	0.180	8.671
Endrin		0.025	0.030	0.030	0.033	0.033	0.029	0.028	0.030	9.473
Endosulfan II	Not Calibrated									
4,4'-DDD	0.299	0.337	0.371	0.358	0.386	0.369	0.370	0.376	0.358	7.806
Endosulfan Sulfate		0.043	0.053	0.050	0.055	0.053	0.052	0.041	0.050	10.941
4,4'-DDT	0.221	0.278	0.312	0.278	0.302	0.275	0.272	0.274	0.277	9.669
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.033	0.039	0.041	0.038	0.040	0.038	0.032	0.030	0.036	11.213
Methoxychlor		0.506	0.631	0.613	0.670	0.611	0.616	0.584	0.605	8.350
Pyrene	1.145	1.246	1.373	1.364	1.548	1.576	1.524	1.531	1.413	11.172
Butylbenzylphthalate	0.708	0.781	0.807	0.780	0.867	0.864	0.784	0.819	0.801	6.425
Benzo[a]anthracene	1.057	1.175	1.233	1.183	1.272	1.222	1.232	1.239	1.202	5.515
3,3'-Dichlorobenzidine	0.155	0.166	0.148	0.131	0.143	0.130	0.130	0.133	0.142	9.491
Chrysene	1.037	1.109	1.138	1.067	1.145	1.102	1.095	1.098	1.099	3.187
Bis(2-ethylhexyl)phthalate	0.922	1.047	1.120	1.094	1.222	1.249	1.120	1.195	1.121	9.422
4-Terphenyl-d14 (surr)	0.735	0.859	0.927	0.915	1.002	0.999	0.962	0.961	0.920	9.565
Di-n-octylphthalate	2.012	2.255	2.448	2.226	2.656	2.551	2.242	2.381	2.346	8.732
Benzo[b]fluoranthene	1.458	1.353	1.291	1.201	1.279	1.170	1.148	1.084	1.248	9.741
Benzo[k]fluoranthene	0.994	1.255	1.407	1.294	1.429	1.364	1.334	1.286	1.295	10.474
Benzo[a]pyrene	1.011	1.082	1.098	1.004	1.064	0.990	0.989	0.944	1.023	5.190
Indeno(1,2,3-c,d)pyrene	0.847	0.848	0.871	0.807	0.816	0.788	0.716	0.650	0.793	9.414
Dibenzo[a,h]anthracene	0.673	0.667	0.666	0.617	0.599	0.566	0.492	0.438	0.590	14.708
Benzo[g,h,i]perylene	0.698	0.705	0.743	0.708	0.724	0.723	0.681	0.619	0.700	5.412

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804702.D Vial: 2
Acq On : 4 Aug 2005 9:01 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 09:26:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 28 11:14:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mrc 08-04-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	178002	4.00	ug/mL	-0.01
18) Naphthalene-D8	7.94	136	751768	4.00	ug/mL	-0.02
33) Acenaphthene-d10	10.70	164	359702	4.00	ug/mL	-0.01
55) Phenanthrene-D10	13.05	188	565538	4.00	ug/mL	-0.02
85) Chrysene-D12	17.27	240	372108	4.00	ug/mL	-0.02
93) Perylene-D12	19.38	264	294161	4.00	ug/mL	-0.01
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.35	112	26937	0.68	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	6.80%	
17) Phenol-d6 (surr)	5.67	99	52517	0.85	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	8.50%	
32) Nitrobenzene-d5 (surr)	6.89	128	19485	0.81	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	8.10%	
53) 2-Fluorobiphenyl (surr)	9.68	172	103217	1.05	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	10.50%	
54) 2,4,6-Tribromophenol (surr	11.97	330	8872	0.78	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	7.80%	
92) 4-Terphenyl-d14 (surr)	15.66	244	89404	1.02	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	10.20%	
Target Compounds						Qvalue
2) Pyridine	2.84	79	18838	0.57	ug/mL#	66
3) N-Nitrosodimethylamine	2.81	74	21855	0.90	ug/mL	89
4) Phenol	5.68	94	39756	0.58	ug/mL#	89
5) Bis(2-chloroethyl)ether	5.74	93	56182	1.05	ug/mL	93
6) 2-Chlorophenol	5.79	128	50357	0.90	ug/mL	95
7) Benzyl Alcohol	6.33	108	22406	0.65	ug/mL	91
8) 1,3-Dichlorobenzene	5.96	146	59396	1.02	ug/mL	96
9) 1,4-Dichlorobenzene	6.07	146	62256	1.02	ug/mL#	95
10) 1,2-Dichlorobenzene	6.29	146	58415	1.06	ug/mL	98
11) 2-Methylphenol	6.53	107	38923	0.93	ug/mL	95
12) 3-, 4-Methylphenol	6.78	107	49504	0.87	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	6.51	45	97139	1.08	ug/mL#	86
14) N-Nitrosodi-n-propylamine	6.71	70	28583	0.93	ug/mL	96
15) Hexachloroethane	6.77	117	22014	1.10	ug/mL	94
19) Nitrobenzene	6.92	77	49684	0.92	ug/mL	96
20) Isophorone	7.29	82	83734	0.99	ug/mL	96
21) 2-Nitrophenol	7.40	139	25965	0.82	ug/mL	96
22) 2,4-Dimethylphenol	7.55	122	37039	0.82	ug/mL	93
23) Benzoic Acid	7.77	122	8994m	0.39	ug/mL	
24) Bis(2-chloroethoxy)methane	7.66	93	56042	0.91	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0804702.D 8270.M Thu Aug 04 14:35:03 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804702.D Vial: 2
Acq On : 4 Aug 2005 9:01 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 09:26:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 28 11:14:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	7.82	162	31057	0.73 ug/mL	96
26)	1,2,4-Trichlorobenzene	7.87	180	45875	1.00 ug/mL	94
27)	Naphthalene	7.97	128	161097	1.07 ug/mL	99
28)	4-Chloroaniline	7.97	127	17905m	1.78 ug/mL	
29)	Hexachlorobutadiene	8.21	225	23383	1.03 ug/mL	97
30)	4-Chloro-3-methylphenol	8.98	107	35608	0.79 ug/mL	99
31)	2-Methylnaphthalene	9.07	142	124545	1.08 ug/mL	99
34)	Hexachlorocyclopentadiene	9.33	237	963	0.16 ug/mL#	27
35)	2,4,6-Trichlorophenol	9.57	196	27612	0.94 ug/mL	94
36)	2,4,5-Trichlorophenol	9.66	196	26919	0.85 ug/mL	91
37)	2-Chloronaphthalene	9.82	162	88031	1.01 ug/mL	98
38)	2-Nitroaniline	10.07	65	16499	0.71 ug/mL	96
39)	3-Nitroaniline	0.00	138	0	N.D.	
40)	1-Methylnaphthalene	9.21	142	111525	1.10 ug/mL	98
41)	Dimethylphthalate	10.37	163	102709	1.03 ug/mL	98
42)	Acenaphthylene	10.47	152	141660	1.12 ug/mL	99
43)	2,6-Dinitrotoluene	10.45	165	19846	0.92 ug/mL	93
44)	Acenaphthene	10.75	153	95236	1.07 ug/mL	99
45)	2,4-Dinitrophenol	10.90	184	11749	0.95 ug/mL#	33
46)	4-Nitrophenol	10.89	109	18567	2.37 ug/mL#	1
47)	Dibenzofuran	11.04	168	141761	1.08 ug/mL	98
48)	2,4-Dinitrotoluene	11.09	165	27170	0.96 ug/mL#	98
49)	Fluorene	11.57	166	103383	1.06 ug/mL	100
50)	Diethylphthalate	11.51	149	105291	1.06 ug/mL	100
51)	4-Chlorophenyl phenyl ethe	11.62	204	45642	1.01 ug/mL	97
52)	4-Nitroaniline	0.00	138	0	N.D.	
56)	4,6-Dinitro-2-methylphenol	11.76	198	8647	0.57 ug/mL#	69
57)	Diphenylamine	11.83	169	42437	1.13 ug/mL	97
58)	4-bromophenyl phenyl ether	12.39	248	24833	1.05 ug/mL	90
59)	Hexachlorobenzene	12.45	284	25720	1.03 ug/mL	98
60)	Pentachlorophenol	0.00	266	0	N.D.	
61)	Phenanthrene	13.09	178	156113	1.09 ug/mL	98
62)	Carbazole	13.51	167	35822	1.04 ug/mL#	62
63)	Anthracene	13.17	178	142789	1.05 ug/mL	98
64)	Azobenzene	11.86	77	111050	1.08 ug/mL	97
65)	Di-n-Butylphthalate	14.13	149	184284	1.08 ug/mL	99
66)	Fluoranthene	14.98	202	140051	1.03 ug/mL	98
67)	alpha-BHC	12.39	183	17856	1.10 ug/mL	96
68)	beta-BHC	12.78	181	13401	0.94 ug/mL	93
69)	gamma-BHC	12.87	183	16254	1.09 ug/mL	98
70)	delta-BHC	13.28	183	13275	0.97 ug/mL	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804702.D Vial: 2
Acq On : 4 Aug 2005 9:01 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 09:26:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 28 11:14:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

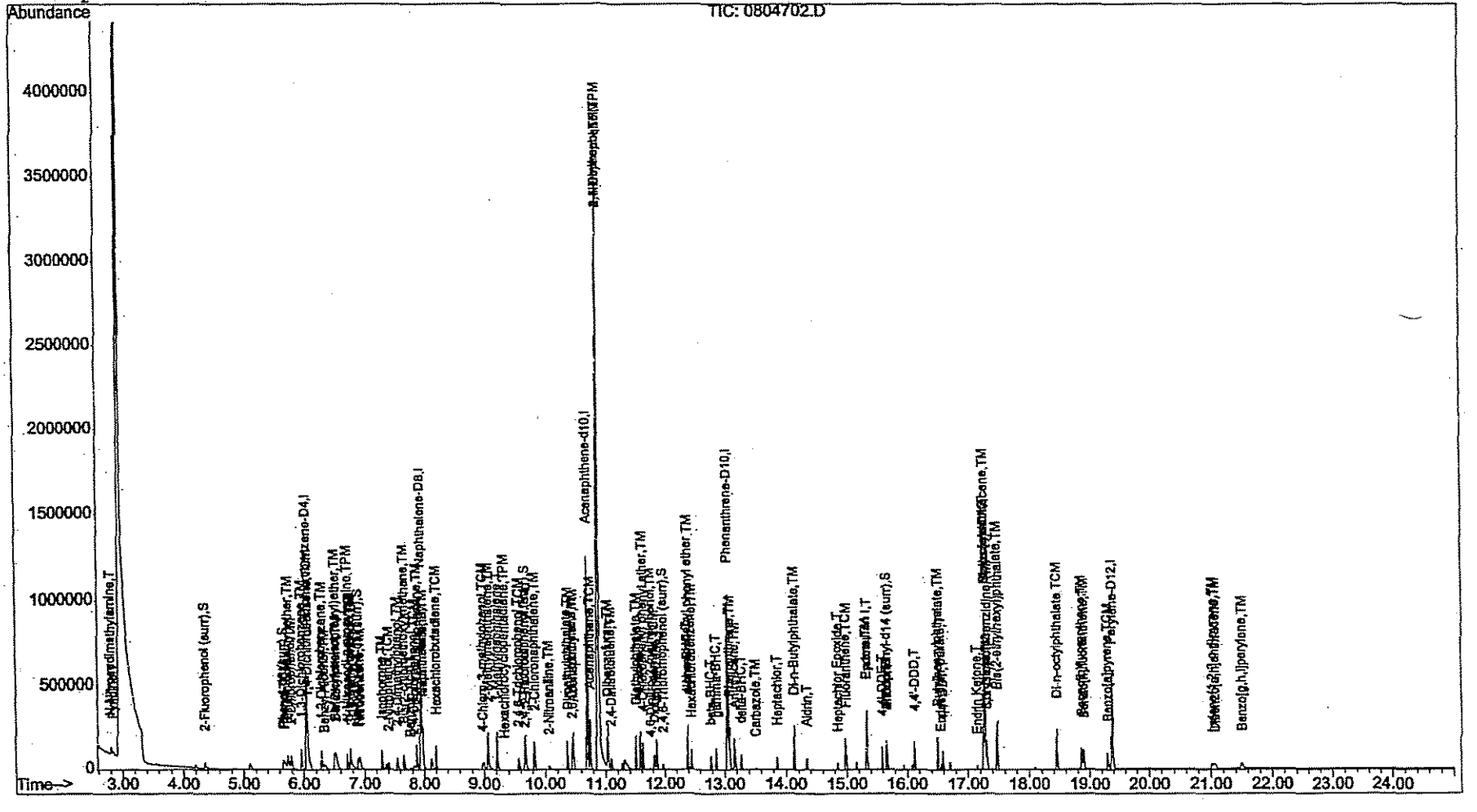
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	21257	1.15 ug/mL	91
72)	Aldrin	14.34	66	20755	1.13 ug/mL	91
73)	Heptachlor Epoxide	14.85	353	7263	0.99 ug/mL	100
74)	Endosulfan I	15.33	195	4158	0.98 ug/mL#	43
75)	4,4'-DDE	15.59	246	29700	1.07 ug/mL	100
76)	Dieldrin	15.67	79	27651	1.24 ug/mL#	89
77)	Endrin	15.67	263	3979	1.00 ug/mL	75
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.12	235	53215	1.06 ug/mL#	96
80)	Endosulfan Sulfate	16.56	272	5750	0.94 ug/mL#	45
81)	4,4'-DDT	16.59	235	38688	1.14 ug/mL	93
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.15	317	4257	0.92 ug/mL#	63
84)	Methoxychlor	17.27	227	82618	1.18 ug/mL	86
86)	Pyrene	15.33	202	142429	1.06 ug/mL#	88
87)	Butylbenzylphthalate	16.51	149	76180	1.00 ug/mL	94
88)	Benzo[a]anthracene	17.26	228	115280	1.03 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.30	252	12377	0.89 ug/mL#	86
90)	Chrysene	17.31	228	102160	1.01 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.47	149	111180	1.06 ug/mL	99
94)	Di-n-octylphthalate	18.45	149	175127	0.91 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	79683	0.83 ug/mL	100
96)	Benzo[k]fluoranthene	18.90	252	94584	0.98 ug/mL	97
97)	Benzo[a]pyrene	19.30	252	69439	0.90 ug/mL	96
98)	Indeno(1,2,3-c,d)pyrene	21.02	276	47832	1.02 ug/mL	97
99)	Dibenzo[a,h]anthracene	21.07	278	32238	0.83 ug/mL	95
100)	Benzo[g,h,i]perylene	21.49	276	45486	1.03 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804702.D Vial: 2
Acq On : 4 Aug 2005 9:01 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:26 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0804702.D 8270.M Thu Aug 04 14:35:06 2005 ENV Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:17:48 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MWC 08-04-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	184909	4.00	ug/mL	0.00
18) Naphthalene-D8	7.94	136	762420	4.00	ug/mL	0.00
33) Acenaphthene-d10	10.70	164	373414	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.05	188	584327	4.00	ug/mL	0.00
85) Chrysene-D12	17.27	240	386197	4.00	ug/mL	0.00
93) Perylene-D12	19.38	264	302660	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.34	112	69802	1.72	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	17.20%	
17) Phenol-d6 (surr)	5.66	99	121159	1.92	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	19.20%	
32) Nitrobenzene-d5 (surr)	6.88	128	44818	1.84	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	18.40%	
53) 2-Fluorobiphenyl (surr)	9.68	172	216682	2.13	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	21.30%	
54) 2,4,6-Tribromophenol (surr	11.97	330	20802	1.77	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	17.70%	
92) 4-Terphenyl-d14 (surr)	15.66	244	185728	2.05	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	20.50%	
Target Compounds						Qvalue
2) Pyridine	2.80	79	74208	2.13	ug/mL#	74
3) N-Nitrosodimethylamine	2.80	74	50922	2.03	ug/mL	91
4) Phenol	5.68	94	93611m	1.36	ug/mL	
5) Bis(2-chloroethyl)ether	5.73	93	91024m	1.65	ug/mL	
6) 2-Chlorophenol	5.78	128	112483	1.96	ug/mL	97
7) Benzyl Alcohol	6.32	108	59996	1.70	ug/mL	95
8) 1,3-Dichlorobenzene	5.96	146	122164	2.02	ug/mL	94
9) 1,4-Dichlorobenzene	6.07	146	131307	2.08	ug/mL	97
10) 1,2-Dichlorobenzene	6.28	146	117744	2.05	ug/mL	99
11) 2-Methylphenol	6.52	107	87376	2.03	ug/mL	95
12) 3-, 4-Methylphenol	6.77	107	118138	2.01	ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.51	45	191062	2.07	ug/mL	96
14) N-Nitrosodi-n-propylamine	6.71	70	61739	1.98	ug/mL	98
15) Hexachloroethane	6.77	117	45666	2.19	ug/mL	97
19) Nitrobenzene	6.91	77	110645	2.04	ug/mL	99
20) Isophorone	7.29	82	169144	1.99	ug/mL	97
21) 2-Nitrophenol	7.40	139	59674	1.86	ug/mL	98
22) 2,4-Dimethylphenol	7.54	122	84420	1.86	ug/mL	96
23) Benzoic Acid	7.76	122	39829	1.82	ug/mL#	1
24) Bis(2-chloroethoxy)methane	7.66	93	120917	1.96	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:17:48 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	7.81	162	80248	1.89 ug/mL	99
26) 1,2,4-Trichlorobenzene	7.87	180	93706	2.01 ug/mL	98
27) Naphthalene	7.97	128	320969	2.09 ug/mL	98
28) 4-Chloroaniline	7.97	127	39407m	3.81 ug/mL	
29) Hexachlorobutadiene	8.20	225	48091	2.09 ug/mL	97
30) 4-Chloro-3-methylphenol	8.97	107	86176	1.92 ug/mL	98
31) 2-Methylnaphthalene	9.06	142	254808	2.17 ug/mL	97
34) Hexachlorocyclopentadiene	9.33	237	7760	1.29 ug/mL#	100
35) 2,4,6-Trichlorophenol	9.56	196	60480	1.98 ug/mL	94
36) 2,4,5-Trichlorophenol	9.64	196	64671	1.98 ug/mL	87
37) 2-Chloronaphthalene	9.82	162	188859	2.10 ug/mL	98
38) 2-Nitroaniline	10.06	65	41922	1.76 ug/mL	96
39) 3-Nitroaniline	11.04	138	3246	1.43 ug/mL#	66
40) 1-Methylnaphthalene	9.21	142	228785	2.17 ug/mL	99
41) Dimethylphthalate	10.37	163	211907	2.05 ug/mL	99
42) Acenaphthylene	10.47	152	291760	2.22 ug/mL	99
43) 2,6-Dinitrotoluene	10.45	165	43826	1.98 ug/mL	94
44) Acenaphthene	10.75	153	195796	2.11 ug/mL	99
45) 2,4-Dinitrophenol	10.90	184	26177	1.99 ug/mL#	75
46) 4-Nitrophenol	11.18	109	1522m	0.16 ug/mL	
47) Dibenzofuran	11.04	168	285918	2.09 ug/mL	99
48) 2,4-Dinitrotoluene	11.09	165	58633	1.99 ug/mL	99
49) Fluorene	11.57	166	210762	2.08 ug/mL	99
50) Diethylphthalate	11.51	149	210281	2.03 ug/mL	97
51) 4-Chlorophenyl phenyl ethe	11.62	204	99202	2.12 ug/mL	98
52) 4-Nitroaniline	11.76	138	2254m	0.42 ug/mL	
56) 4,6-Dinitro-2-methylphenol	11.74	198	26664	1.69 ug/mL#	92
57) Diphenylamine	11.82	169	76548	2.00 ug/mL	96
58) 4-bromophenyl phenyl ether	12.39	248	53335	2.18 ug/mL	89
59) Hexachlorobenzene	12.45	284	54638	2.12 ug/mL	96
60) Pentachlorophenol	12.82	266	10427	0.72 ug/mL	93
61) Phenanthrene	13.09	178	314285	2.12 ug/mL	98
62) Carbazole	13.50	167	63882	1.93 ug/mL#	100
63) Anthracene	13.17	178	291449	2.08 ug/mL	98
64) Azobenzene	11.86	77	217471	2.07 ug/mL	98
65) Di-n-Butylphthalate	14.13	149	372999	2.12 ug/mL	100
66) Fluoranthene	14.98	202	284138	2.04 ug/mL	98
67) alpha-BHC	12.39	183	38725	2.32 ug/mL	95
68) beta-BHC	12.78	181	29795	2.03 ug/mL	93
69) gamma-BHC	12.87	183	33935	2.20 ug/mL	97
70) delta-BHC	13.27	183	29742	2.12 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:17:48 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Initial Calibration
DataAcq Meth : 8270

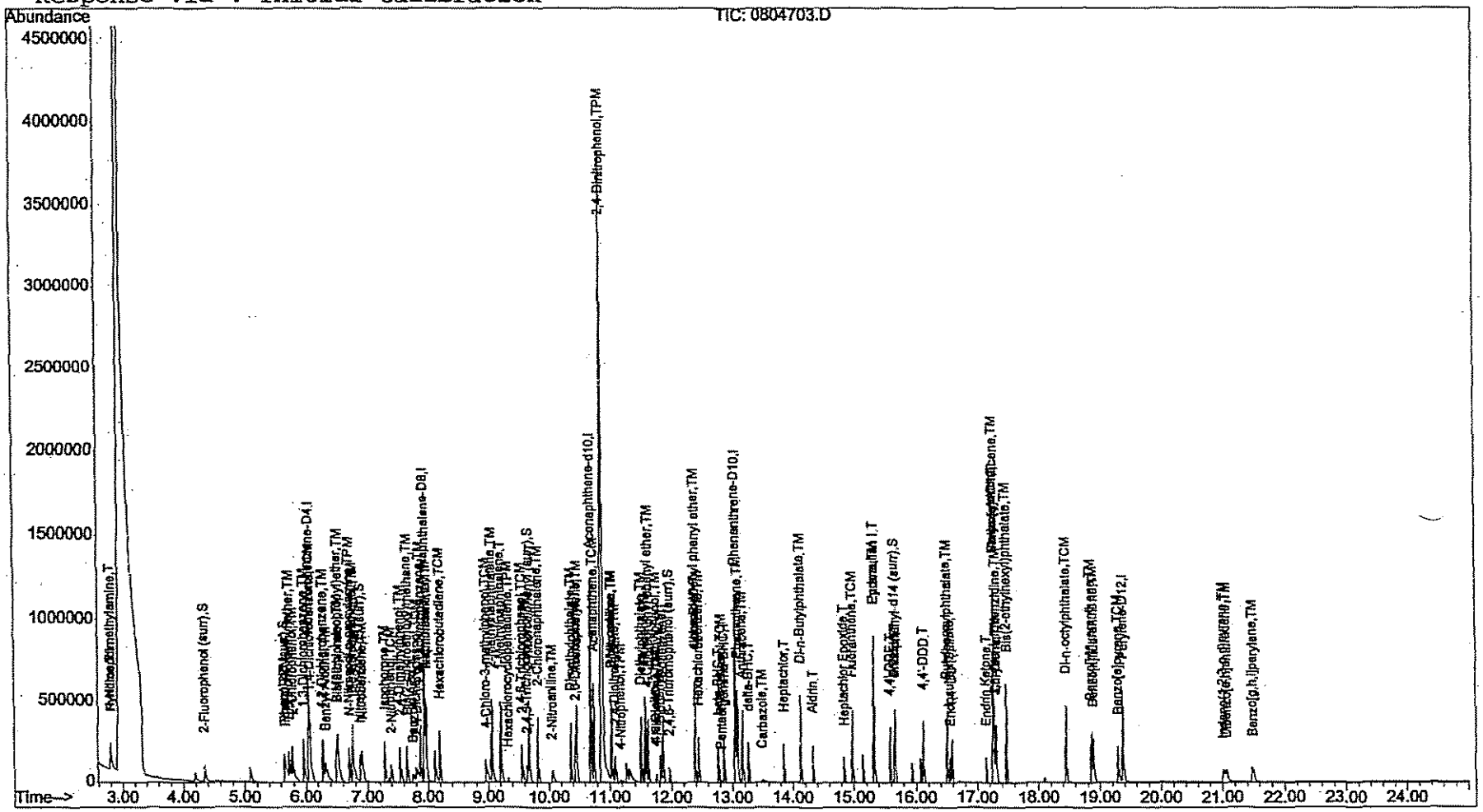
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	43579	2.28 ug/mL	95
72)	Aldrin	14.34	66	42113	2.25 ug/mL	94
73)	Heptachlor Epoxide	14.85	353	16074	2.11 ug/mL	96
74)	Endosulfan I	15.33	195	9239	2.16 ug/mL#	100
75)	4,4'-DDE	15.59	246	60564	2.12 ug/mL	100
76)	Dieldrin	15.67	79	55572	2.43 ug/mL	98
77)	Endrin	15.67	263	8558	2.12 ug/mL	97
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.12	235	108207	2.10 ug/mL#	100
80)	Endosulfan Sulfate	16.56	272	15252	2.45 ug/mL#	100
81)	4,4'-DDT	16.59	235	79339	2.22 ug/mL	99
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.15	317	9462	1.94 ug/mL#	41
84)	Methoxychlor	17.26	227	179972	2.47 ug/mL	94
86)	Pyrene	15.33	202	294209	2.12 ug/mL	95
87)	Butylbenzylphthalate	16.50	149	151380	1.94 ug/mL	92
88)	Benzo[a]anthracene	17.26	228	237871	2.07 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.29	252	25106	1.84 ug/mL	92
90)	Chrysene	17.31	228	211485	2.01 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.47	149	216332	2.00 ug/mL	100
94)	Di-n-octylphthalate	18.45	149	339307	1.76 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	173693	1.78 ug/mL	99
96)	Benzo[k]fluoranthene	18.90	252	201811	2.04 ug/mL	95
97)	Benzo[a]pyrene	19.30	252	149726	1.90 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.01	276	108370	2.17 ug/mL	96
99)	Dibenzo[a,h]anthracene	21.06	278	74483	1.84 ug/mL	95
100)	Benzo[g,h,i]perylene	21.49	276	103111	2.23 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:34 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration

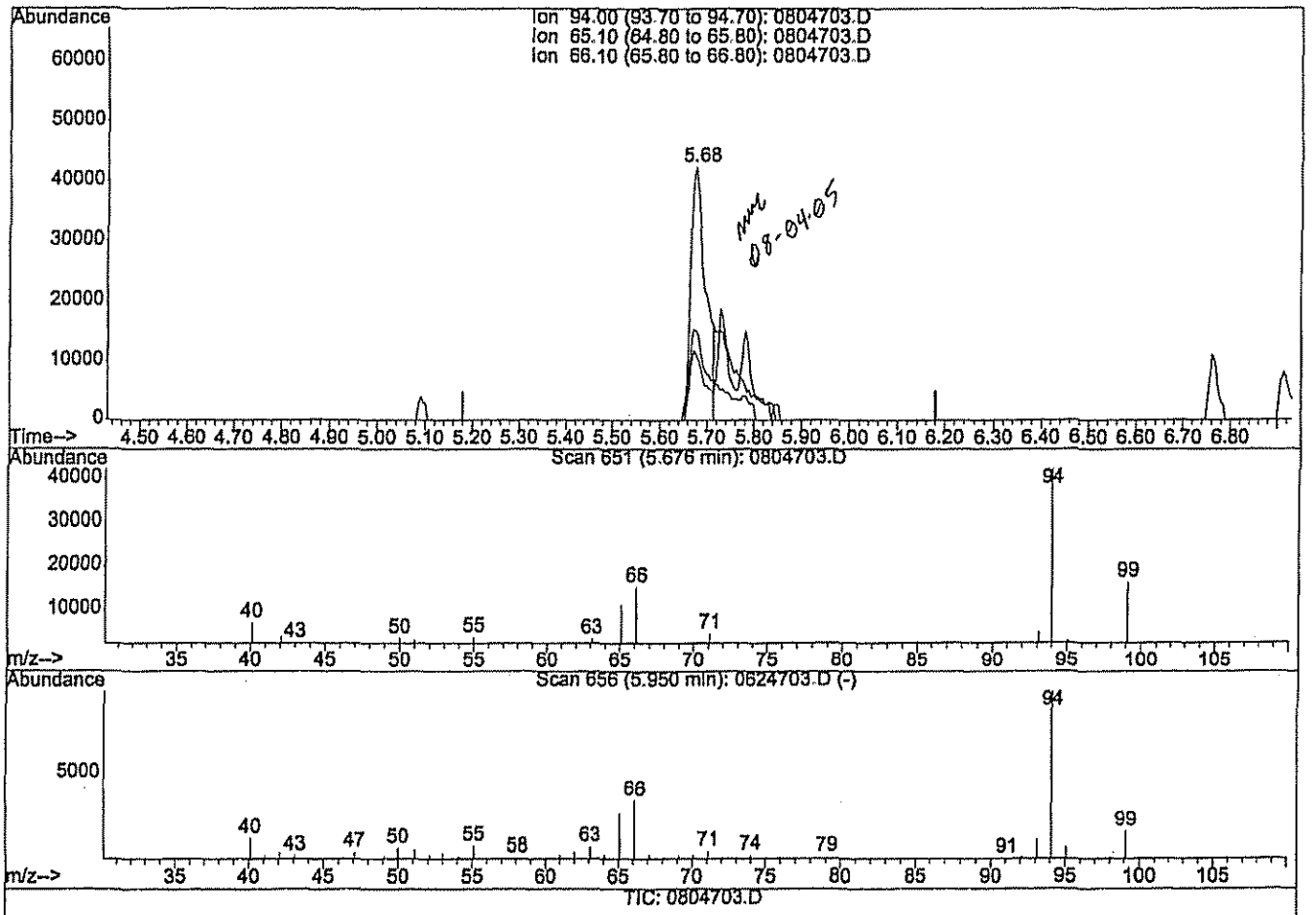


PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:18 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.68min 1.36ug/mL m

response 93611

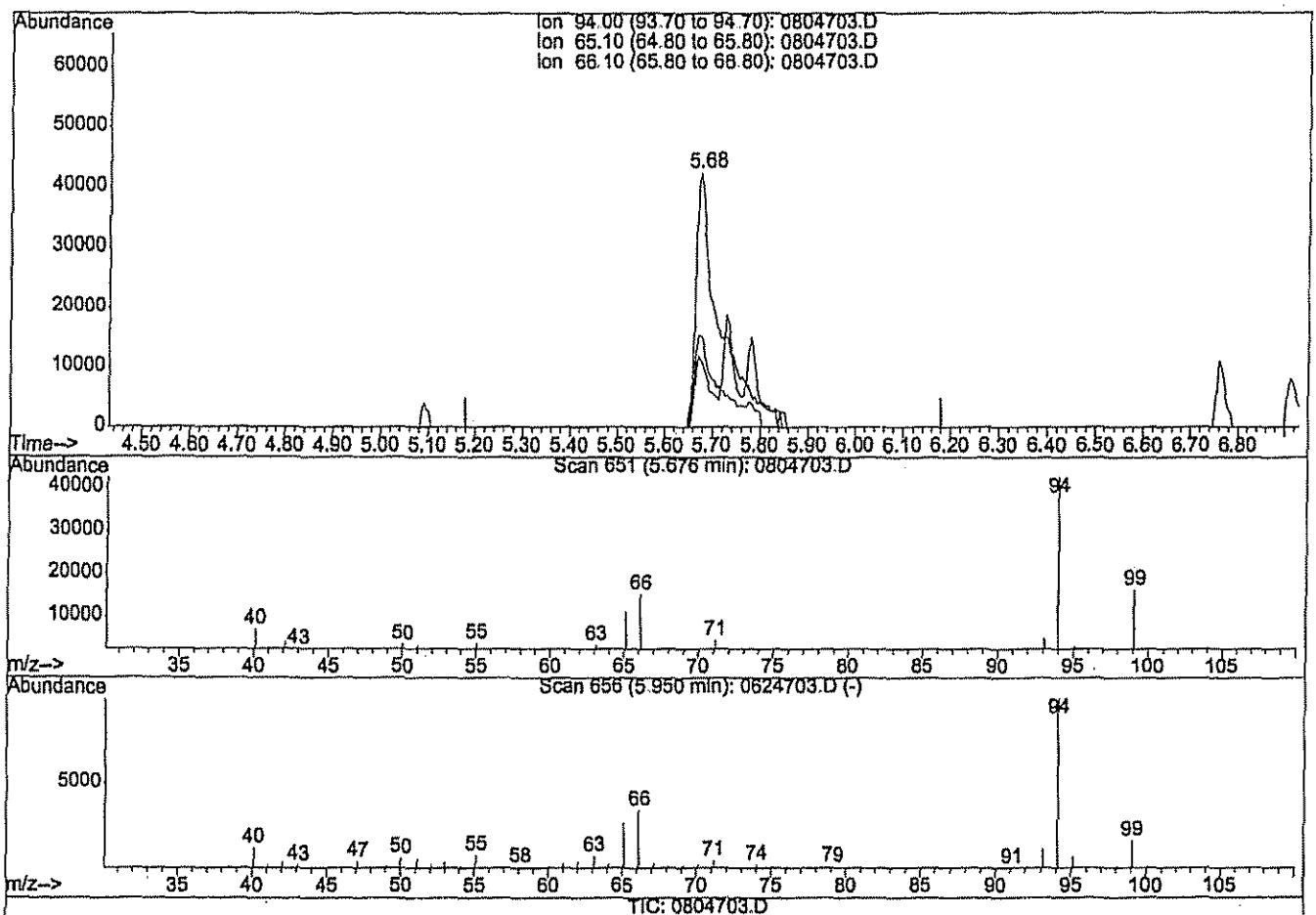
Ion	Exp%	Act%
94.00	100	100
65.10	29.90	26.42
66.10	40.60	35.91
0.00	0.00	0.00

0804703.D 8270.M Thu Aug 04 11:18:31 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.68min 2.14ug/mL

response 147494

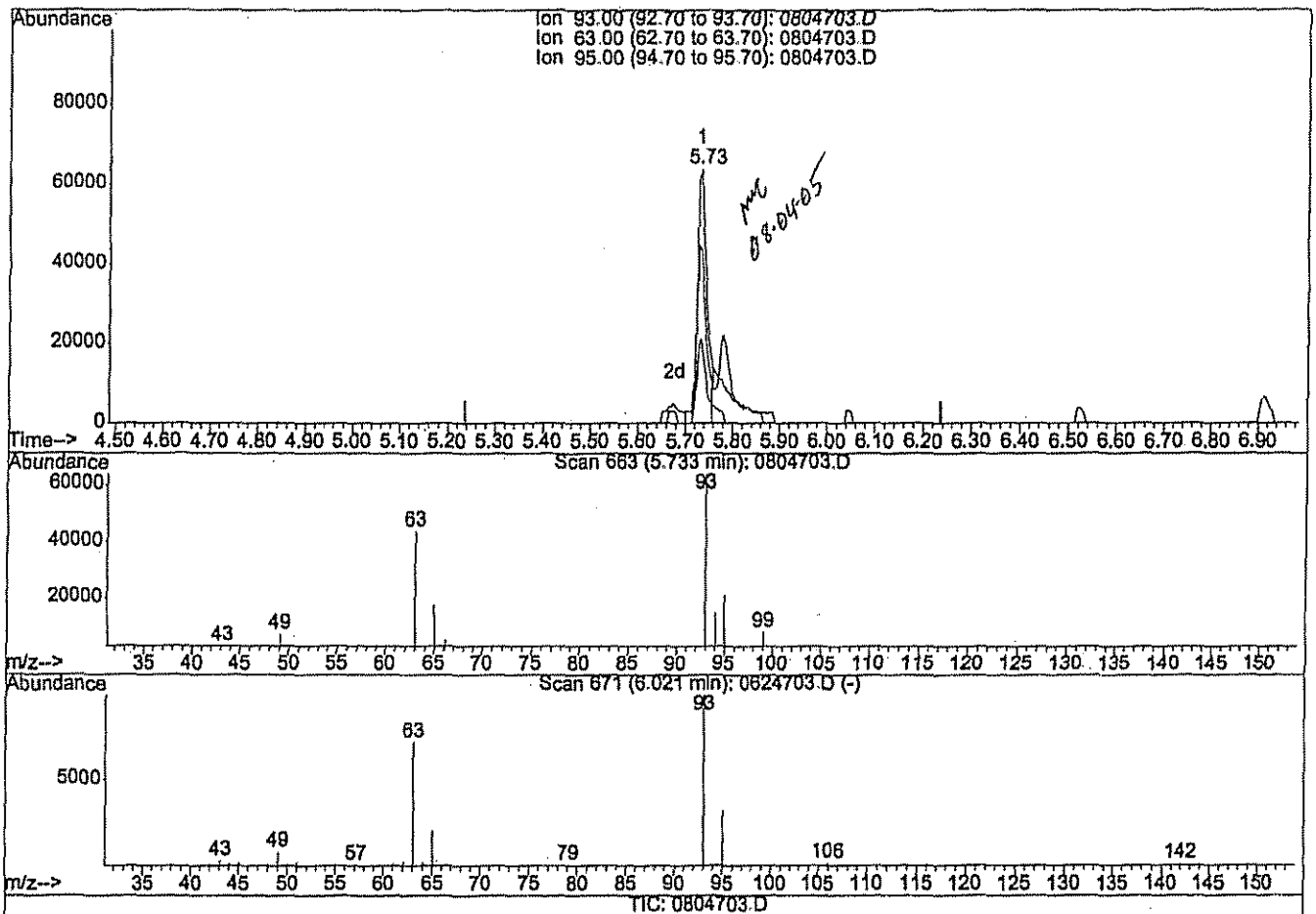
Ion	Exp%	Act%
94.00	100	100
65.10	29.90	26.42
66.10	40.60	35.91
0.00	0.00	0.00

0804703.D 8270.M Thu Aug 04 11:18:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:18 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.73min 1.65ug/mL m

response 91024

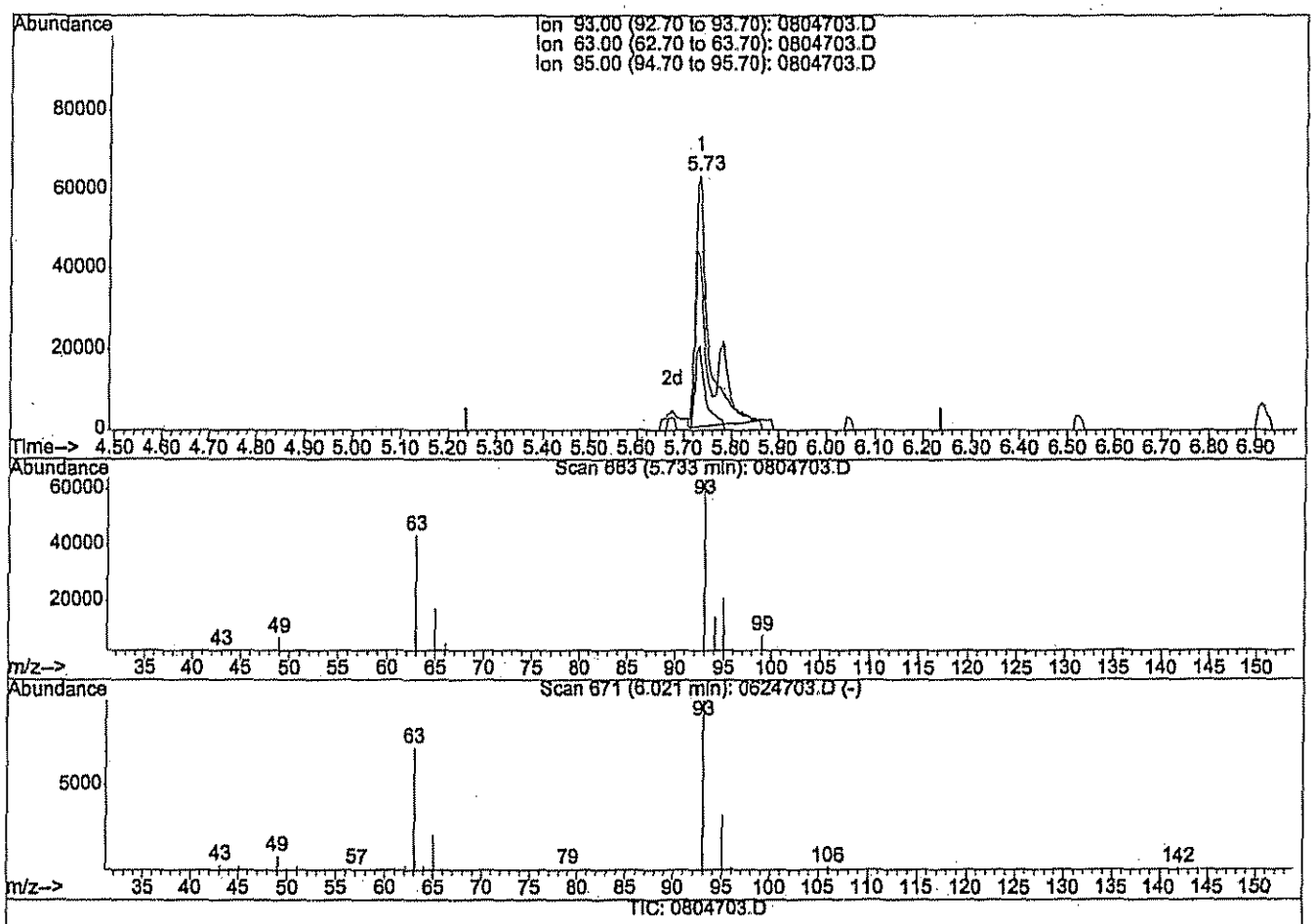
Ion	Exp%	Act%
93.00	100	100
63.00	68.60	68.34
95.00	29.20	33.05
0.00	0.00	0.00

0804703.D 8270.M Thu Aug 04 11:18:43 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804703.D Vial: 3
Acq On : 4 Aug 2005 9:37 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:18 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 09:33:26 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.73min 2.05ug/mL

response 113103

Ion	Exp%	Act%
93.00	100	100
63.00	68.60	71.09
95.00	29.20	34.38
0.00	0.00	0.00

0804703.D 8270.M Thu Aug 04 11:18:35 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:20:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 08-04-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	163153	4.00 ug/mL	0.00
18) Naphthalene-D8	7.94	136	653520	4.00 ug/mL	0.00
33) Acenaphthene-d10	10.70	164	310914	4.00 ug/mL	0.00
55) Phenanthrene-D10	13.05	188	468940	4.00 ug/mL	0.00
85) Chrysene-D12	17.27	240	286231	4.00 ug/mL	0.00
93) Perylene-D12	19.38	264	217669	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	4.34	112	150594m	4.22 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 42.20%	
17) Phenol-d6 (surr)	5.65	99	210797	3.80 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 38.00%	
32) Nitrobenzene-d5 (surr)	6.88	128	80953	3.90 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 39.00%	
53) 2-Fluorobiphenyl (surr)	9.68	172	361171	4.27 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 42.70%	
54) 2,4,6-Tribromophenol (surr	11.97	330	37708	3.86 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 38.60%	
92) 4-Terphenyl-d14 (surr)	15.66	244	286060	4.27 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 42.70%	
Target Compounds					Qvalue
2) Pyridine	2.78	79	116857	3.73 ug/mL	87
3) N-Nitrosodimethylamine	2.79	74	88995	4.03 ug/mL	100
4) Phenol	5.67	94	161221m	2.80 ug/mL	
5) Bis(2-chloroethyl)ether	5.73	93	141046m	3.02 ug/mL	
6) 2-Chlorophenol	5.78	128	201367m	3.99 ug/mL	
7) Benzyl Alcohol	6.32	108	116494	3.77 ug/mL	99
8) 1,3-Dichlorobenzene	5.96	146	214862	4.04 ug/mL	98
9) 1,4-Dichlorobenzene	6.07	146	227231	4.08 ug/mL	99
10) 1,2-Dichlorobenzene	6.29	146	206966	4.08 ug/mL	95
11) 2-Methylphenol	6.52	107	157852	4.16 ug/mL	95
12) 3-, 4-Methylphenol	6.76	107	206082	4.00 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	6.51	45	333920	4.16 ug/mL#	94
14) N-Nitrosodi-n-propylamine	6.71	70	106650	3.92 ug/mL	95
15) Hexachloroethane	6.76	117	78888	4.31 ug/mL	97
19) Nitrobenzene	6.91	77	188639	4.05 ug/mL	98
20) Isophorone	7.29	82	291014	4.01 ug/mL	97
21) 2-Nitrophenol	7.39	139	108801	3.94 ug/mL	97
22) 2,4-Dimethylphenol	7.54	122	153949	3.96 ug/mL	97
23) Benzoic Acid	7.78	122	72655	3.65 ug/mL	97
24) Bis(2-chloroethoxy)methane	7.65	93	211150	4.02 ug/mL	97

(#) = qualifier out of range (m) = manual integration
0804704.D 8270.M Thu Aug 04 14:35:16 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:20:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	7.80	162	144355	3.96	ug/mL	94
26) 1,2,4-Trichlorobenzene	7.87	180	165354	4.15	ug/mL	97
27) Naphthalene	7.97	128	551211	4.19	ug/mL	99
28) 4-Chloroaniline	7.97	127	67510m	7.85	ug/mL	
29) Hexachlorobutadiene	8.20	225	82255	4.18	ug/mL	98
30) 4-Chloro-3-methylphenol	8.96	107	147736	3.86	ug/mL	98
31) 2-Methylnaphthalene	9.06	142	426895	4.23	ug/mL	96
34) Hexachlorocyclopentadiene	9.33	237	14387	2.83	ug/mL	98
35) 2,4,6-Trichlorophenol	9.56	196	102514	4.04	ug/mL	98
36) 2,4,5-Trichlorophenol	9.64	196	109287	4.04	ug/mL	94
37) 2-Chloronaphthalene	9.82	162	319539	4.26	ug/mL	100
38) 2-Nitroaniline	10.06	65	72563	3.73	ug/mL	94
39) 3-Nitroaniline	11.03	138	7373m	3.90	ug/mL	
40) 1-Methylnaphthalene	9.21	142	383384	4.37	ug/mL	100
41) Dimethylphthalate	10.37	163	347099	4.03	ug/mL	100
42) Acenaphthylene	10.47	152	474762	4.36	ug/mL	98
43) 2,6-Dinitrotoluene	10.45	165	73486	4.01	ug/mL	98
44) Acenaphthene	10.75	153	321636	4.17	ug/mL	100
45) 2,4-Dinitrophenol	10.89	184	39619	3.50	ug/mL	88
46) 4-Nitrophenol	11.16	109	13622	1.75	ug/mL#	66
47) Dibenzofuran	11.04	168	463395	4.08	ug/mL	98
48) 2,4-Dinitrotoluene	11.09	165	95378	3.88	ug/mL#	99
49) Fluorene	11.57	166	339632	4.04	ug/mL	98
50) Diethylphthalate	11.51	149	348349	4.07	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	11.62	204	161869	4.15	ug/mL	97
52) 4-Nitroaniline	11.77	138	12810m	2.97	ug/mL	
56) 4,6-Dinitro-2-methylphenol	11.74	198	48815	3.78	ug/mL	96
57) Diphenylamine	11.82	169	124527	4.18	ug/mL	97
58) 4-bromophenyl phenyl ether	12.39	248	89188	4.52	ug/mL	97
59) Hexachlorobenzene	12.45	284	88730	4.27	ug/mL	98
60) Pentachlorophenol	12.81	266	28873	2.49	ug/mL	93
61) Phenanthrene	13.09	178	492515	4.15	ug/mL	100
62) Carbazole	13.49	167	104778	4.37	ug/mL#	74
63) Anthracene	13.17	178	463738	4.13	ug/mL	99
64) Azobenzene	11.86	77	356261	4.25	ug/mL	99
65) Di-n-Butylphthalate	14.13	149	602914	4.29	ug/mL	99
66) Fluoranthene	14.98	202	445341	3.98	ug/mL	98
67) alpha-BHC	12.39	183	62817	4.69	ug/mL	98
68) beta-BHC	12.77	181	50769	4.30	ug/mL	100
69) gamma-BHC	12.87	183	54680	4.37	ug/mL	97
70) delta-BHC	13.27	183	47858	4.24	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:20:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

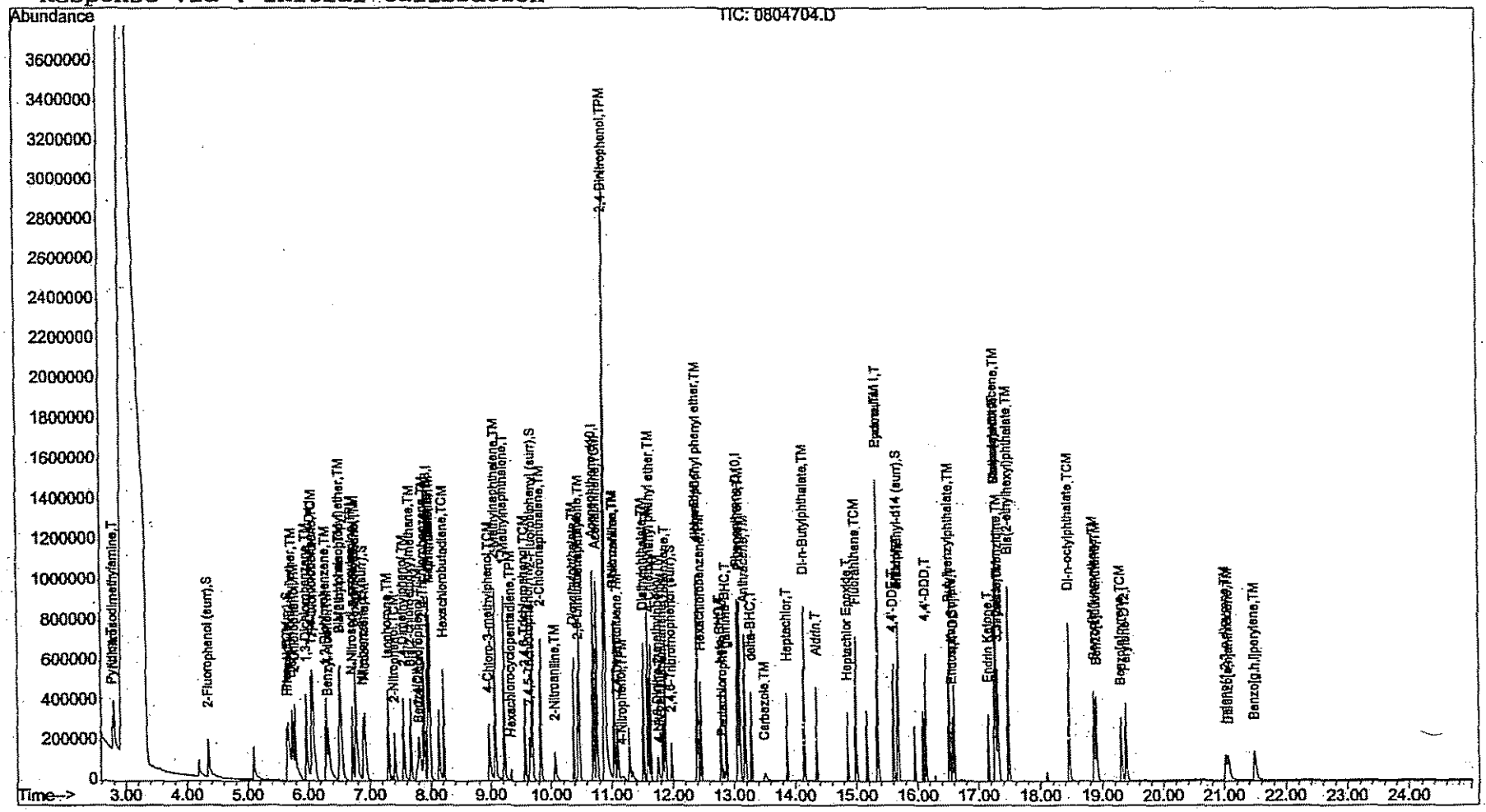
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	68996	4.47 ug/mL	99
72)	Aldrin	14.34	66	67273	4.48 ug/mL	98
73)	Heptachlor Epoxide	14.85	353	26987	4.37 ug/mL	96
74)	Endosulfan I	15.33	195	16323	4.80 ug/mL#	82
75)	4,4'-DDE	15.59	246	98004	4.28 ug/mL	99
76)	Dieldrin	15.67	79	87600	4.77 ug/mL	95
77)	Endrin	15.67	263	15247	4.72 ug/mL	84
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.12	235	172839	4.19 ug/mL#	100
80)	Endosulfan Sulfate	16.56	272	24887	4.91 ug/mL	98
81)	4,4'-DDT	16.59	235	128890	4.40 ug/mL	99
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.15	317	17980	4.58 ug/mL	88
84)	Methoxychlor	17.26	227	286384	4.79 ug/mL	91
86)	Pyrene	15.33	202	451089	4.42 ug/mL	100
87)	Butylbenzylphthalate	16.51	149	247215	4.33 ug/mL	95
88)	Benzo[a]anthracene	17.26	228	349736	4.11 ug/mL	98
89)	3,3'-Dichlorobenzidine	17.29	252	37178	3.73 ug/mL#	87
90)	Chrysene	17.31	228	315346	4.04 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.47	149	357619	4.52 ug/mL	99
94)	Di-n-octylphthalate	18.45	149	555176	4.10 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	254770	3.67 ug/mL	99
96)	Benzo[k]fluoranthene	18.90	252	296809	4.14 ug/mL	98
97)	Benzo[a]pyrene	19.30	252	215561	3.80 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.01	276	171577	4.55 ug/mL	96
99)	Dibenzo[a,h]anthracene	21.06	278	123164	4.17 ug/mL	97
100)	Benzo[g,h,i]perylene	21.48	276	157467	4.61 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:36 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0804704.D 8270.M Thu Aug 04 14:35:19 2005 ENV Page 4

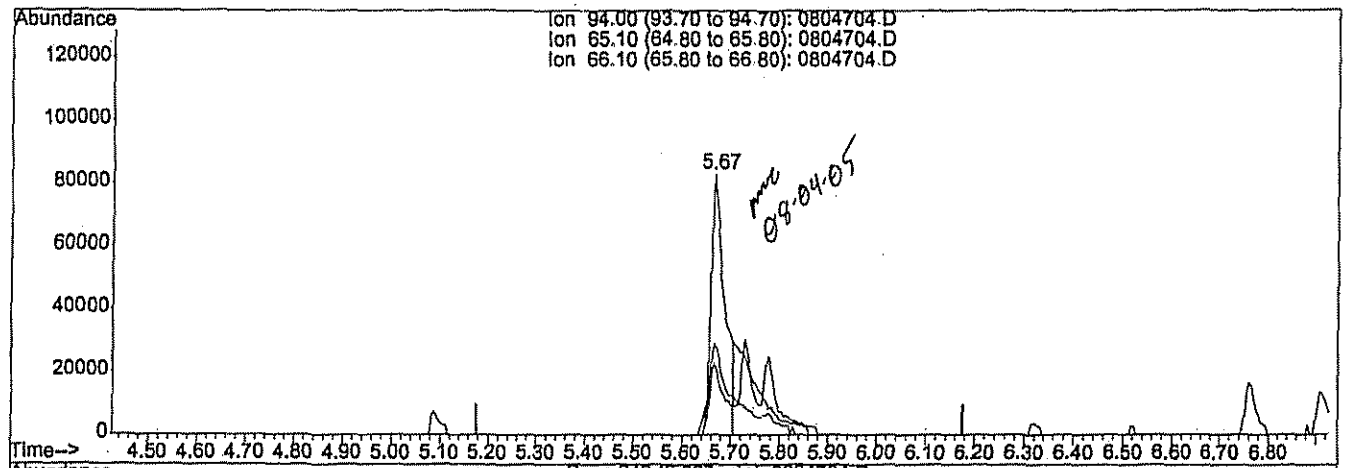
N.C. CERTIFICATION #481

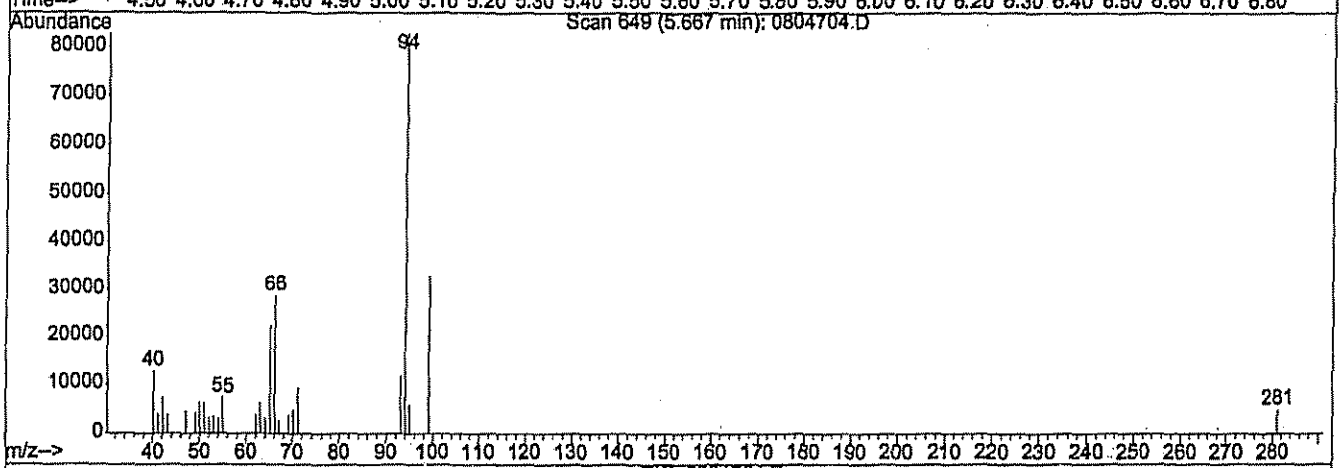
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





TIC: 0804704.D

(4) Phenol (TCM)

5.67min 2.80ug/mL m

response 161221

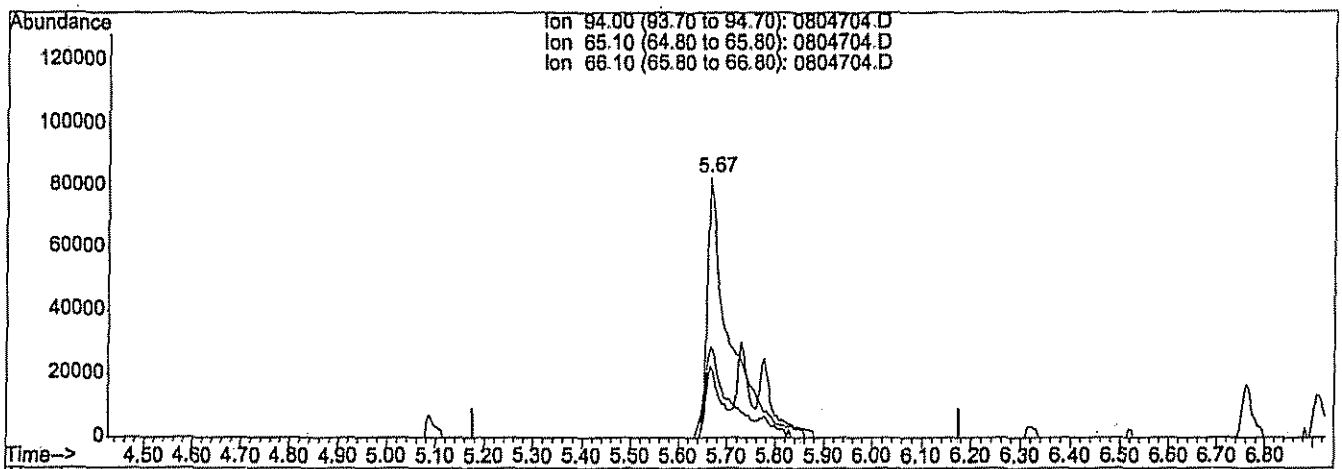
Ion	Exp%	Act%
94.00	100	100
65.10	26.40	27.18
66.10	35.90	34.79
0.00	0.00	0.00

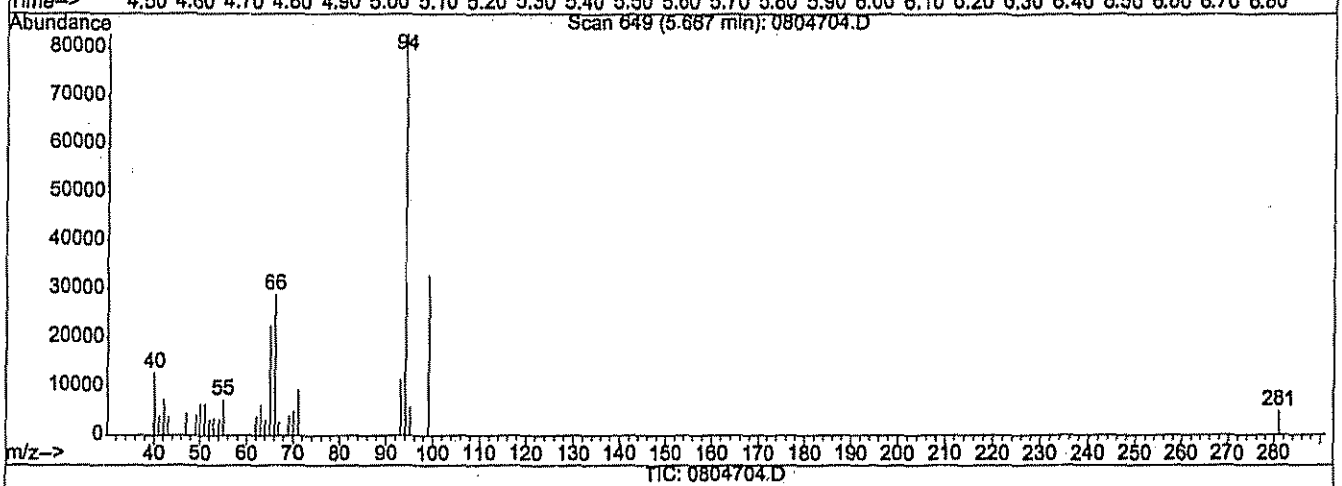
0804704.D 8270.M Thu Aug 04 11:20:47 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





TIC: 0804704.D

(4) Phenol (TCM)

5.67min 4.58ug/mL

response 263340

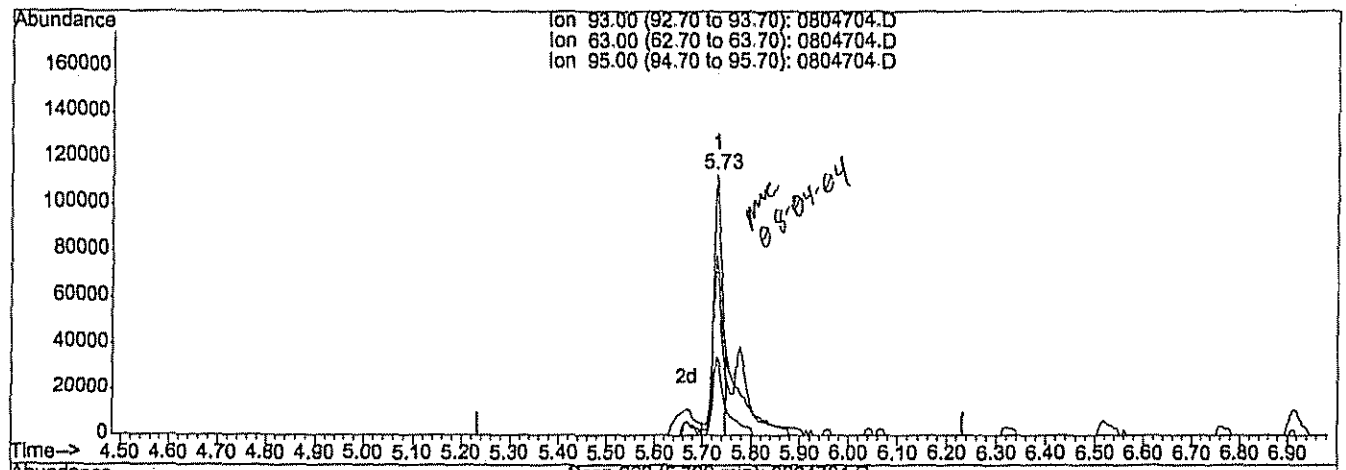
Ion	Exp%	Act%
94.00	100	100
65.10	26.40	27.18
66.10	35.90	34.79
0.00	0.00	0.00

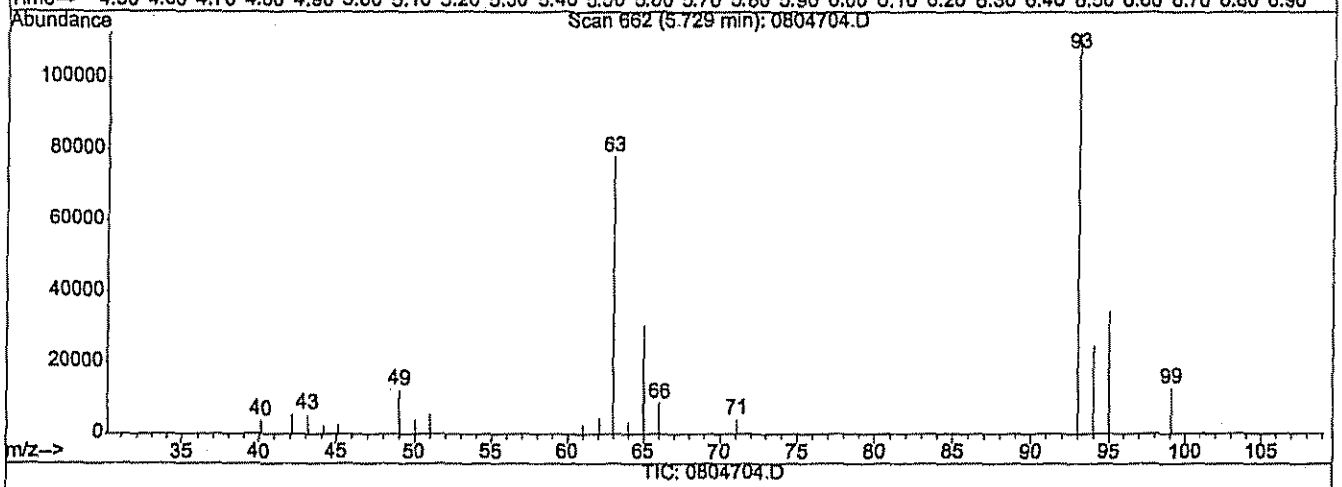
0804704.D 8270.M Thu Aug 04 11:20:42 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.73min 3.02ug/mL m

response 141046

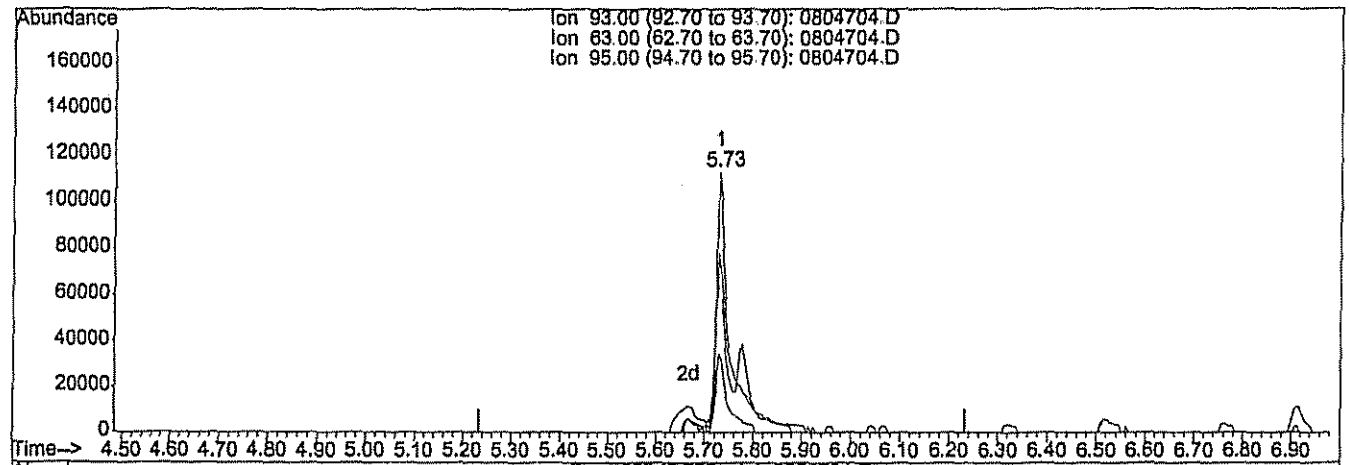
Ion	Exp%	Act%
93.00	100	100
63.00	68.30	69.10
95.00	33.00	30.60
0.00	0.00	0.00

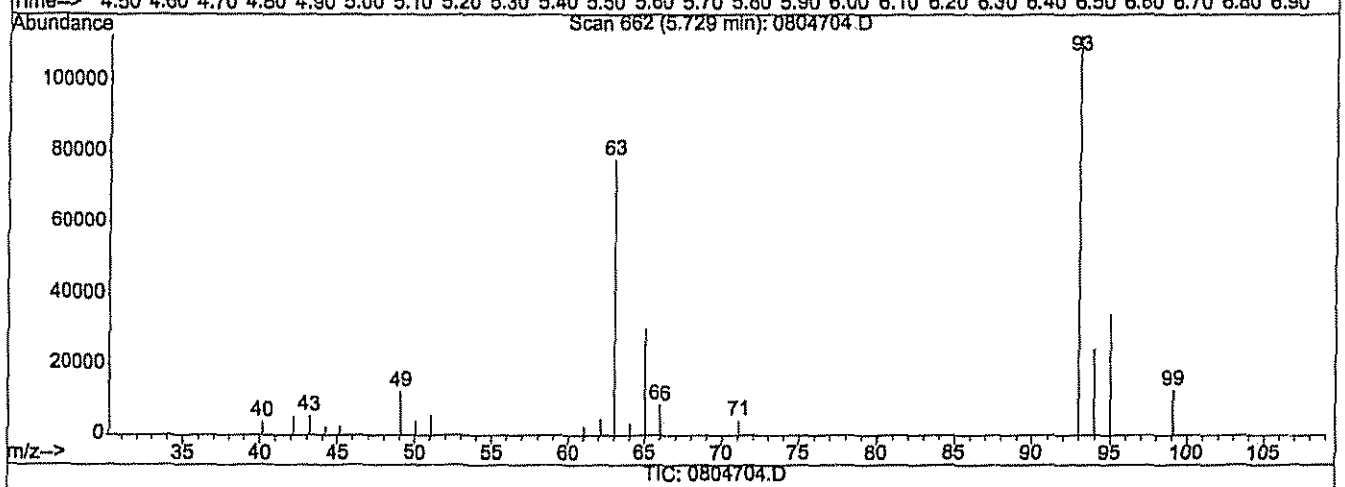
0804704.D 8270.M Thu Aug 04 11:20:57 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.73min 4.88ug/mL

response 227908

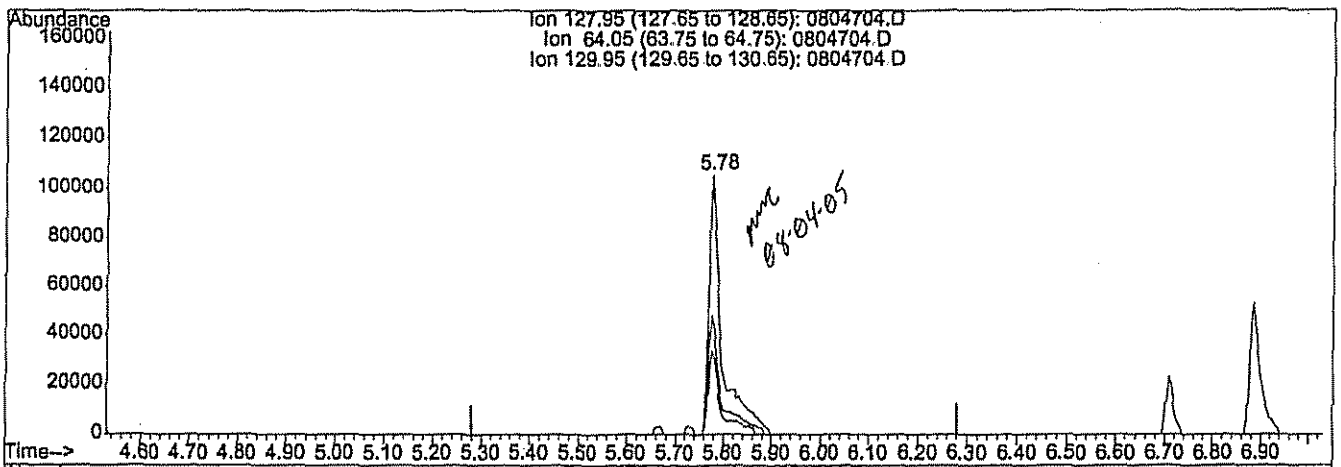
Ion	Exp%	Act%
93.00	100	100
63.00	68.30	69.10
95.00	33.00	30.60
0.00	0.00	0.00

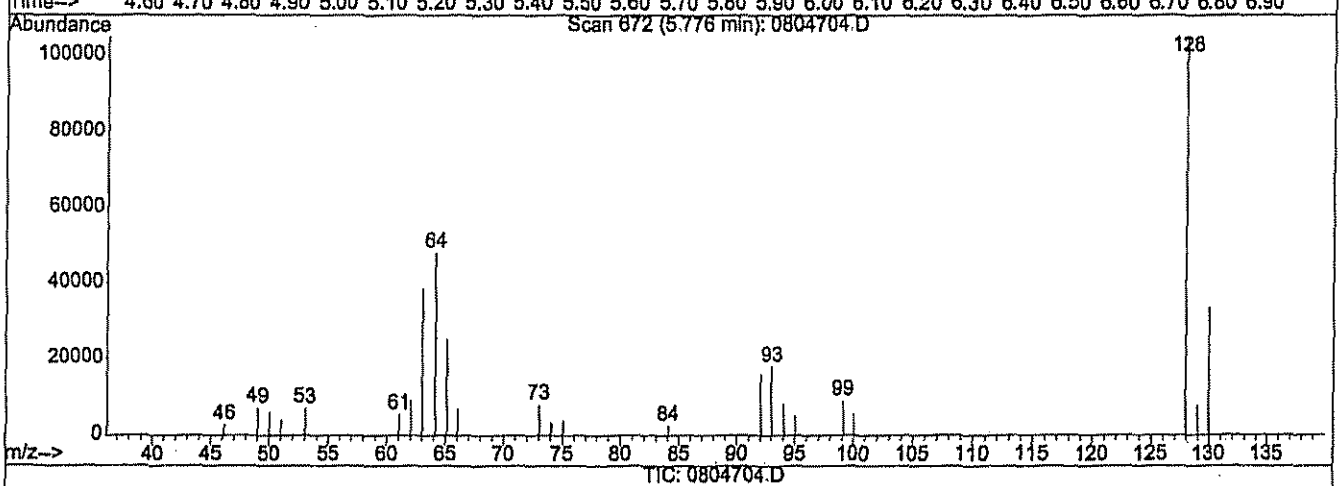
0804704.D 8270.M Thu Aug 04 11:20:52 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:21 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





(6) 2-Chlorophenol (TM)

5.78min 3.99ug/mL m

response 201367

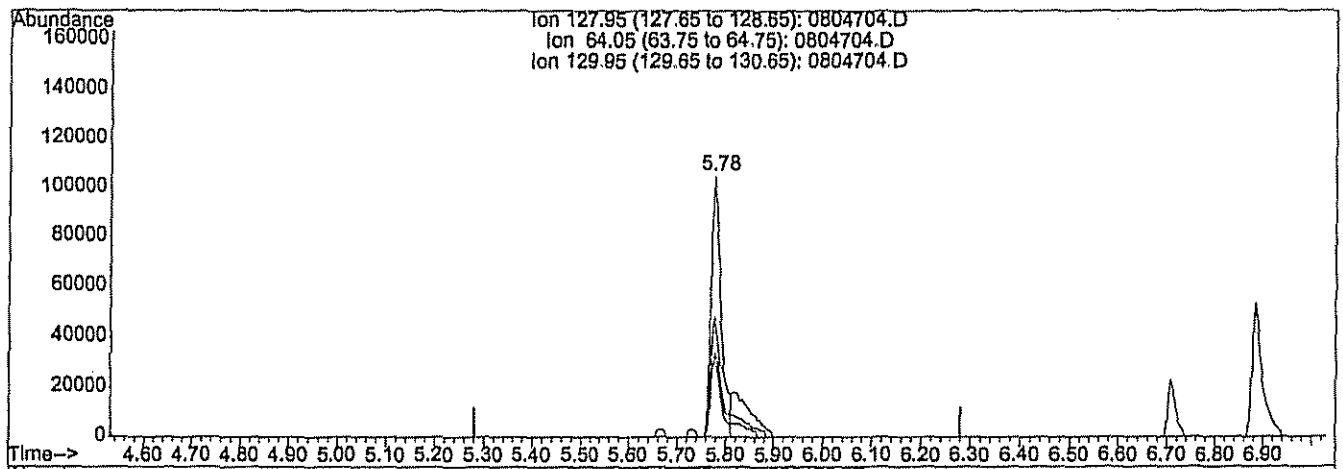
Ion	Exp%	Act%
127.95	100	100
64.05	46.40	45.70
129.95	31.90	32.13
0.00	0.00	0.00

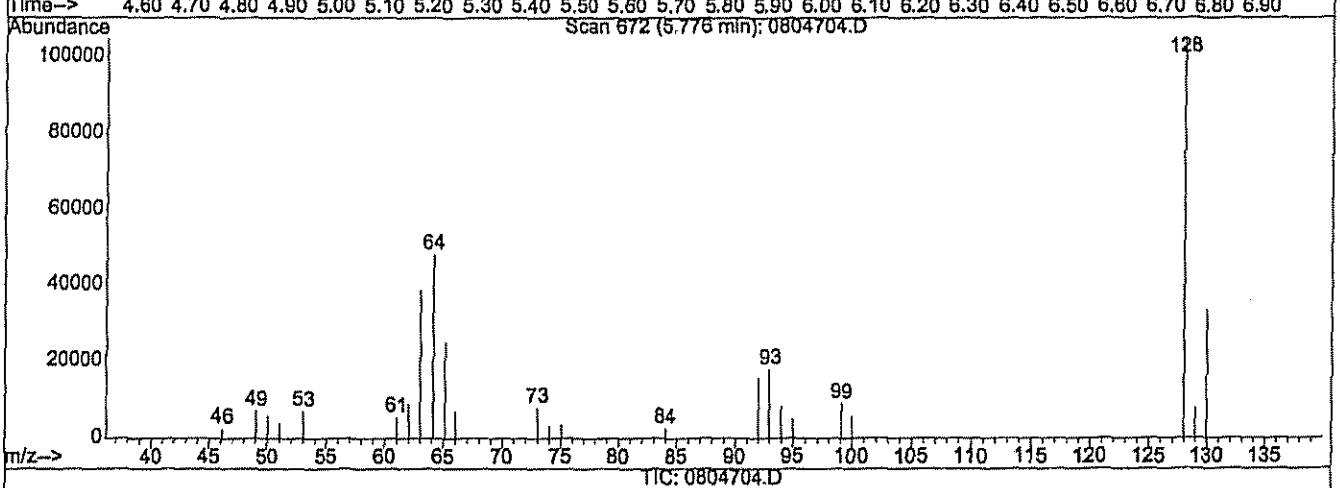
0804704.D 8270.M Thu Aug 04 11:21:07 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804704.D Vial: 4
Acq On : 4 Aug 2005 10:11 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:20:25 2005
Response via : Multiple Level Calibration





(6) 2-Chlorophenol (TM)

5.78min 2.98ug/mL

response 150302

Ion	Exp%	Act%
127.95	100	100
64.05	46.40	45.70
129.95	31.90	32.13
0.00	0.00	0.00

0804704.D 8270.M Thu Aug 04 11:21:02 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:51:04 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mrc 08/04/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	156524	4.00	ug/mL	0.00
18) Naphthalene-D8	7.94	136	645955	4.00	ug/mL	0.00
33) Acenaphthene-d10	10.70	164	310934	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.05	188	487981	4.00	ug/mL	0.00
85) Chrysene-D12	17.28	240	317017	4.00	ug/mL	0.00
93) Perylene-D12	19.38	264	233304	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.33	112	227499m	6.63	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	66.30%	
17) Phenol-d6 (surr)	5.65	99	335476	6.37	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	63.70%	
32) Nitrobenzene-d5 (surr)	6.88	128	130532	6.39	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	63.90%	
53) 2-Fluorobiphenyl (surr)	9.68	172	555136	6.54	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	65.40%	
54) 2,4,6-Tribromophenol (surr	11.97	330	61913	6.36	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	63.60%	
92) 4-Terphenyl-d14 (surr)	15.66	244	476392	6.41	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	64.10%	

Target Compounds						Qvalue
2) Pyridine	2.77	79	166199	5.61	ug/mL	99
3) N-Nitrosodimethylamine	2.79	74	134569	6.44	ug/mL	96
4) Phenol	5.67	94	250440m	4.83	ug/mL	
5) Bis(2-chloroethyl)ether	5.73	93	233556m	5.51	ug/mL	
6) 2-Chlorophenol	5.78	128	313200	6.50	ug/mL	99
7) Benzyl Alcohol	6.32	108	191033	6.50	ug/mL	98
8) 1,3-Dichlorobenzene	5.96	146	325580	6.40	ug/mL	99
9) 1,4-Dichlorobenzene	6.07	146	340139	6.37	ug/mL	100
10) 1,2-Dichlorobenzene	6.29	146	312061	6.41	ug/mL	97
11) 2-Methylphenol	6.52	107	238994	6.60	ug/mL	97
12) 3-, 4-Methylphenol	6.76	107	331906	6.77	ug/mL	96
13) Bis(2-chloroisopropyl)ethe	6.51	45	488595	6.39	ug/mL#	95
14) N-Nitrosodi-n-propylamine	6.71	70	168387	6.55	ug/mL	98
15) Hexachloroethane	6.76	117	118823	6.75	ug/mL	99
19) Nitrobenzene	6.91	77	295110	6.44	ug/mL	99
20) Isophorone	7.29	82	442209	6.19	ug/mL	99
21) 2-Nitrophenol	7.39	139	176208	6.48	ug/mL	96
22) 2,4-Dimethylphenol	7.54	122	235684	6.18	ug/mL	98
23) Benzoic Acid	7.80	122	123728	6.10	ug/mL	98
24) Bis(2-chloroethoxy)methane	7.66	93	331010	6.41	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:51:04 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	7.79	162	234780	6.55	ug/mL	98
26) 1,2,4-Trichlorobenzene	7.87	180	252030	6.39	ug/mL	98
27) Naphthalene	7.97	128	847472	6.51	ug/mL	99
28) 4-Chloroaniline	7.97	127	105453	8.62	ug/mL	100
29) Hexachlorobutadiene	8.21	225	124121	6.38	ug/mL	99
30) 4-Chloro-3-methylphenol	8.96	107	242715	6.48	ug/mL	99
31) 2-Methylnaphthalene	9.07	142	649267	6.50	ug/mL	99
34) Hexachlorocyclopentadiene	9.33	237	27988	5.55	ug/mL#	96
35) 2,4,6-Trichlorophenol	9.56	196	164586	6.52	ug/mL	99
36) 2,4,5-Trichlorophenol	9.63	196	177838	6.63	ug/mL	97
37) 2-Chloronaphthalene	9.82	162	488116	6.49	ug/mL	99
38) 2-Nitroaniline	10.06	65	125229	6.46	ug/mL	92
39) 3-Nitroaniline	11.04	138	12728	6.75	ug/mL	100
40) 1-Methylnaphthalene	9.21	142	584147	6.63	ug/mL	99
41) Dimethylphthalate	10.37	163	541654	6.30	ug/mL	100
42) Acenaphthylene	10.47	152	746784	6.88	ug/mL	99
43) 2,6-Dinitrotoluene	10.45	165	118919	6.54	ug/mL	99
44) Acenaphthene	10.75	153	495867	6.44	ug/mL	99
45) 2,4-Dinitrophenol	10.90	184	73318	6.44	ug/mL	86
46) 4-Nitrophenol	11.15	109	35881	4.78	ug/mL	90
47) Dibenzofuran	11.04	168	730693	6.45	ug/mL	99
48) 2,4-Dinitrotoluene	11.09	165	155629	6.36	ug/mL	97
49) Fluorene	11.58	166	532439	6.37	ug/mL	100
50) Diethylphthalate	11.51	149	541450	6.35	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.62	204	249354	6.39	ug/mL	94
52) 4-Nitroaniline	11.77	138	40730m	9.50	ug/mL	
56) 4,6-Dinitro-2-methylphenol	11.73	198	90683	6.72	ug/mL	96
57) Diphenylamine	11.83	169	191921	6.23	ug/mL	98
58) 4-bromophenyl phenyl ether	12.39	248	139760	6.77	ug/mL	97
59) Hexachlorobenzene	12.45	284	141556	6.52	ug/mL	99
60) Pentachlorophenol	12.81	266	63346	5.34	ug/mL	100
61) Phenanthrene	13.09	178	802691	6.50	ug/mL	99
62) Carbazole	13.49	167	166738	6.69	ug/mL#	96
63) Anthracene	13.17	178	751660	6.45	ug/mL	100
64) Azobenzene	11.87	77	564735	6.50	ug/mL	99
65) Di-n-Butylphthalate	14.14	149	960045	6.56	ug/mL	99
66) Fluoranthene	14.98	202	744058	6.42	ug/mL	100
67) alpha-BHC	12.39	183	96269	6.86	ug/mL	98
68) beta-BHC	12.78	181	83415	6.80	ug/mL	99
69) gamma-BHC	12.87	183	85912	6.56	ug/mL	99
70) delta-BHC	13.28	183	76549	6.53	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 11:51:04 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

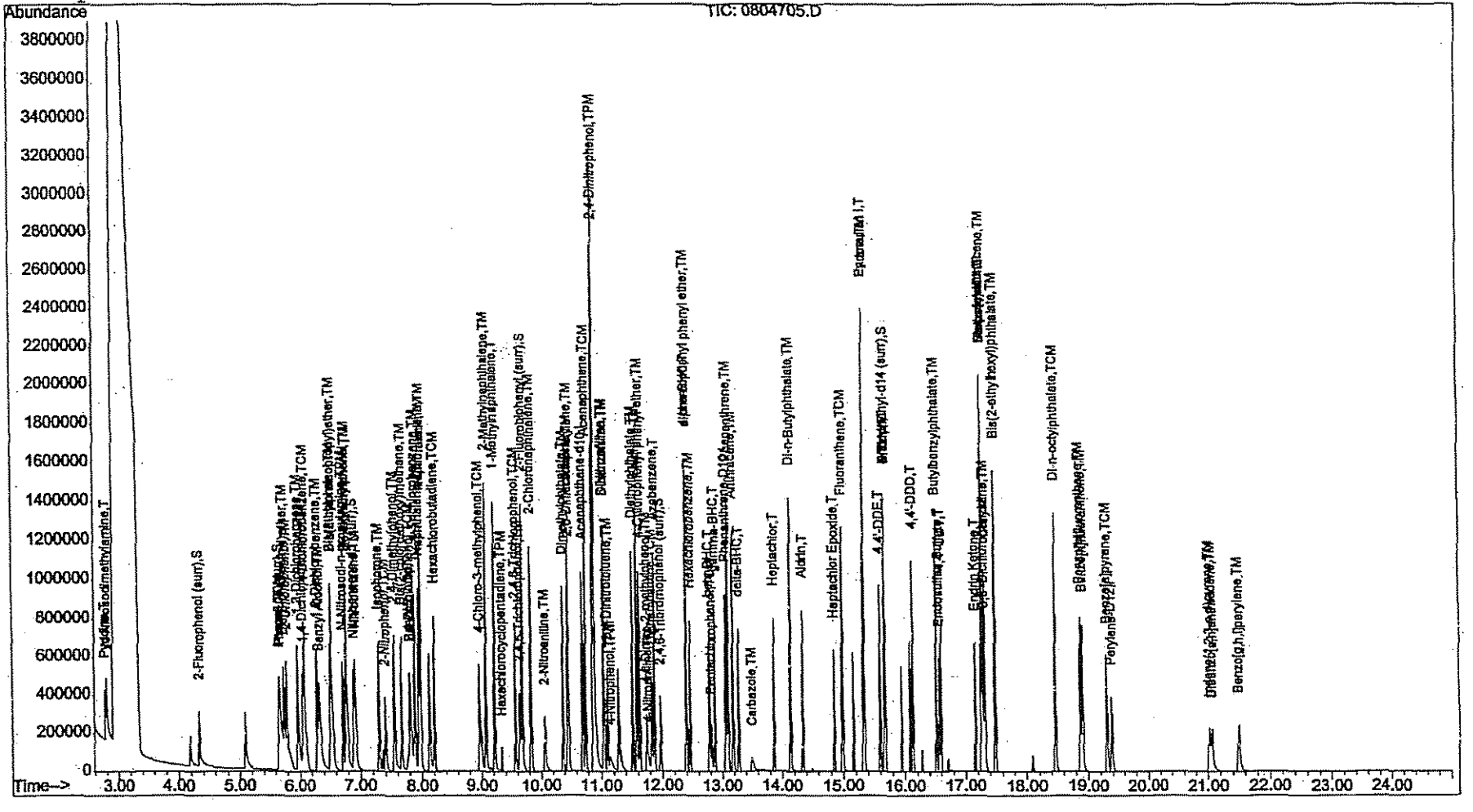
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	111188	6.91 ug/mL	99
72)	Aldrin	14.34	66	103985	6.66 ug/mL	98
73)	Heptachlor Epoxide	14.85	353	41705	6.45 ug/mL	92
74)	Endosulfan I	15.33	195	26845	7.57 ug/mL	95
75)	4,4'-DDE	15.59	246	157724	6.62 ug/mL	98
76)	Dieldrin	15.67	79	135057	7.06 ug/mL	99
77)	Endrin	15.68	263	24040	7.12 ug/mL	100
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.13	235	282592	6.58 ug/mL#	100
80)	Endosulfan Sulfate	16.56	272	40082	7.53 ug/mL#	88
81)	4,4'-DDT	16.60	235	220939	7.14 ug/mL	97
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.16	317	29595	7.16 ug/mL	90
84)	Methoxychlor	17.27	227	490407	7.78 ug/mL	99
86)	Pyrene	15.33	202	735964	6.49 ug/mL	100
87)	Butylbenzylphthalate	16.51	149	412353	6.49 ug/mL	96
88)	Benzo[a]anthracene	17.26	228	605067	6.42 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.29	252	68125	6.23 ug/mL	92
90)	Chrysene	17.31	228	544435	6.30 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.48	149	581167	6.59 ug/mL	100
94)	Di-n-octylphthalate	18.46	149	929331	6.42 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	447489	6.06 ug/mL	99
96)	Benzo[k]fluoranthene	18.90	252	500248	6.49 ug/mL	99
97)	Benzo[a]pyrene	19.30	252	372247	6.16 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.02	276	285412	6.76 ug/mL	99
99)	Dibenzo[a,h]anthracene	21.06	278	209633	6.51 ug/mL	99
100)	Benzo[g,h,i]perylene	21.49	276	253407	6.73 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:02 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration

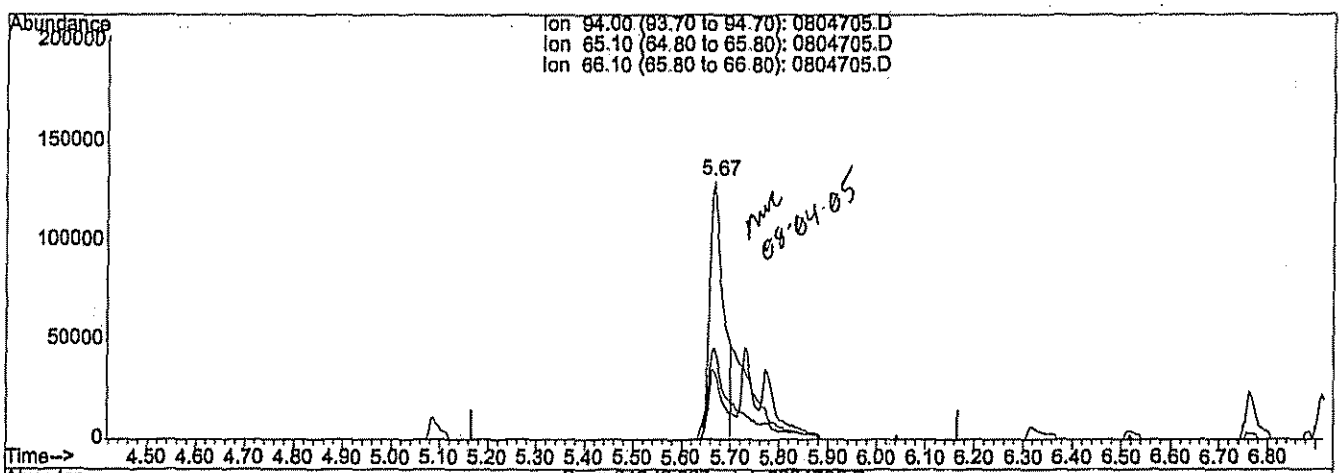


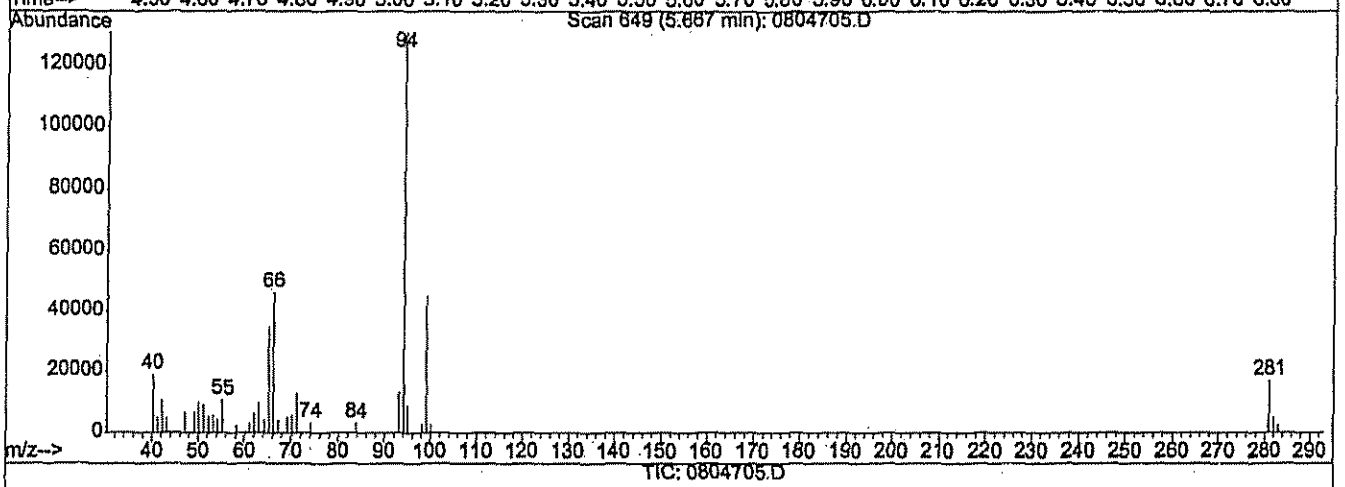
0804705.D 8270.M Thu Aug 04 14:35:25 2005 ENV Page 4

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:01 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





TIC: 0804705.D

(4) Phenol (TCM)

5.67min 4.83ug/mL m

response 250440

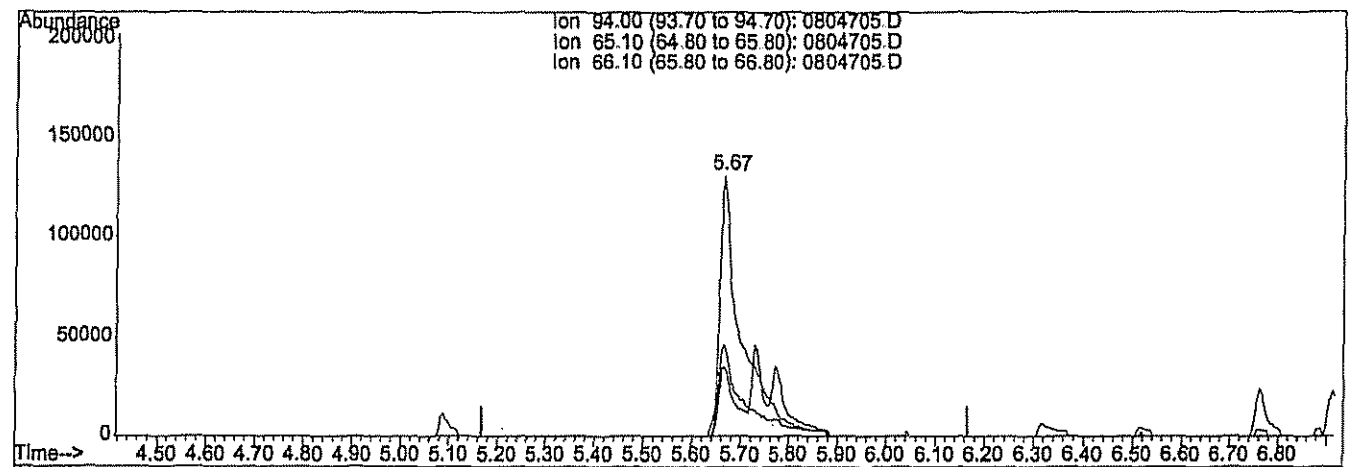
Ion	Exp%	Act%
94.00	100	100
65.10	27.20	26.48
66.10	34.80	35.41
0.00	0.00	0.00

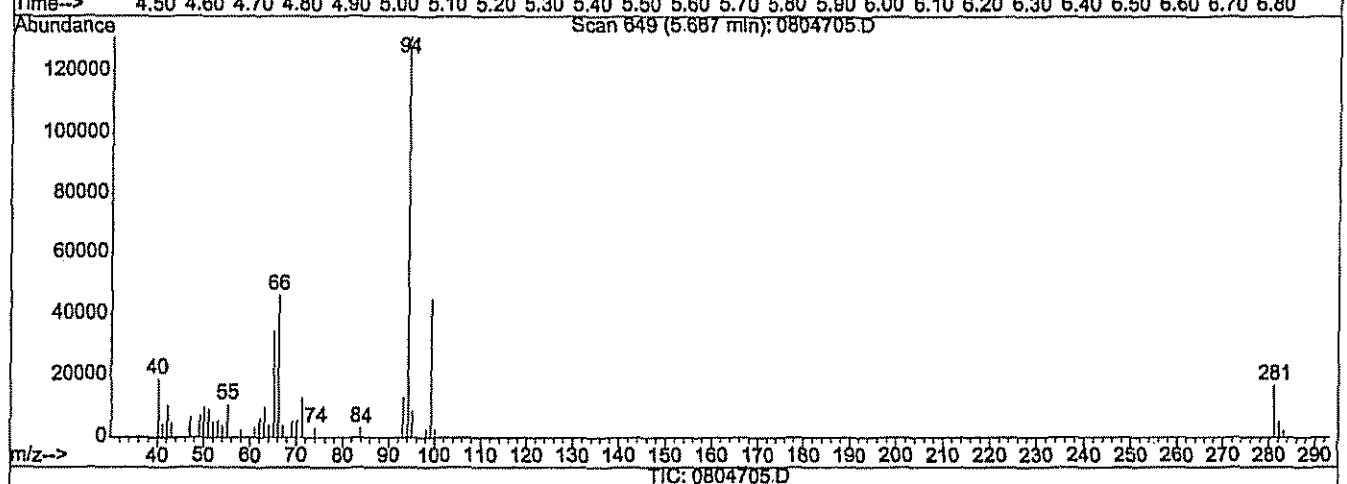
0804705.D 8270.M Thu Aug 04 12:01:37 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 11:51 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





TIC: 0804705.D

(4) Phenol (TCM)

5.67min 7.89ug/mL

response 408971

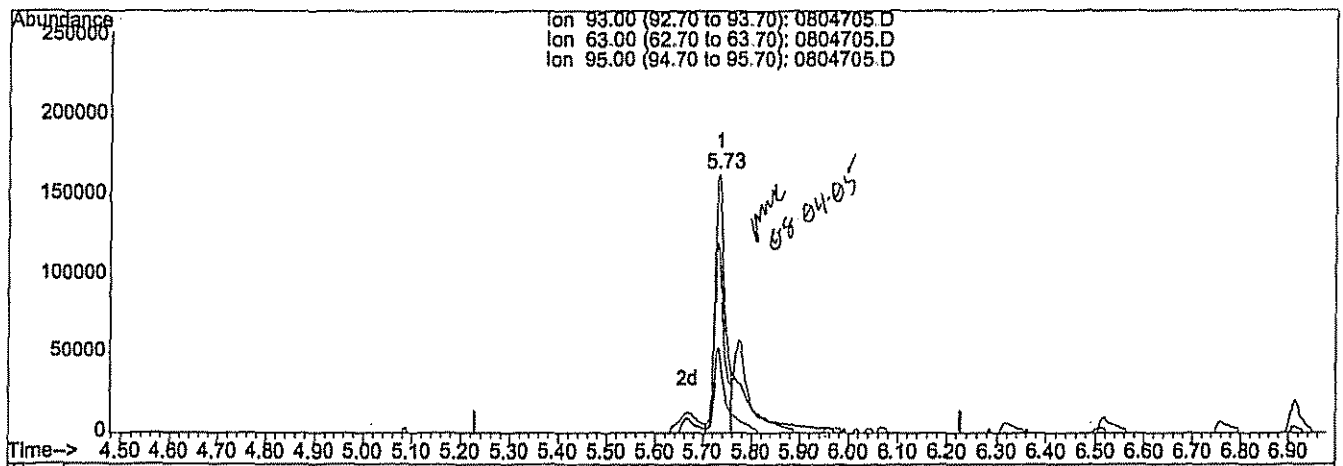
Ion	Exp%	Act%
94.00	100	100
65.10	27.20	26.48
66.10	34.80	35.41
0.00	0.00	0.00

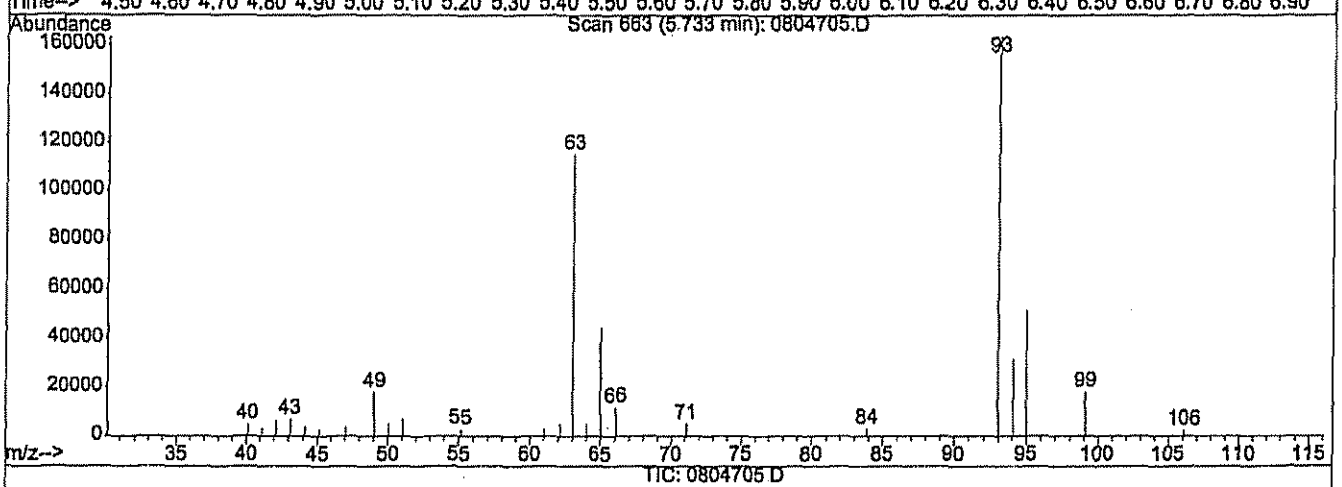
0804705.D 8270.M Thu Aug 04 12:01:29 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:01 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.73min 5.51ug/mL m

response 233556

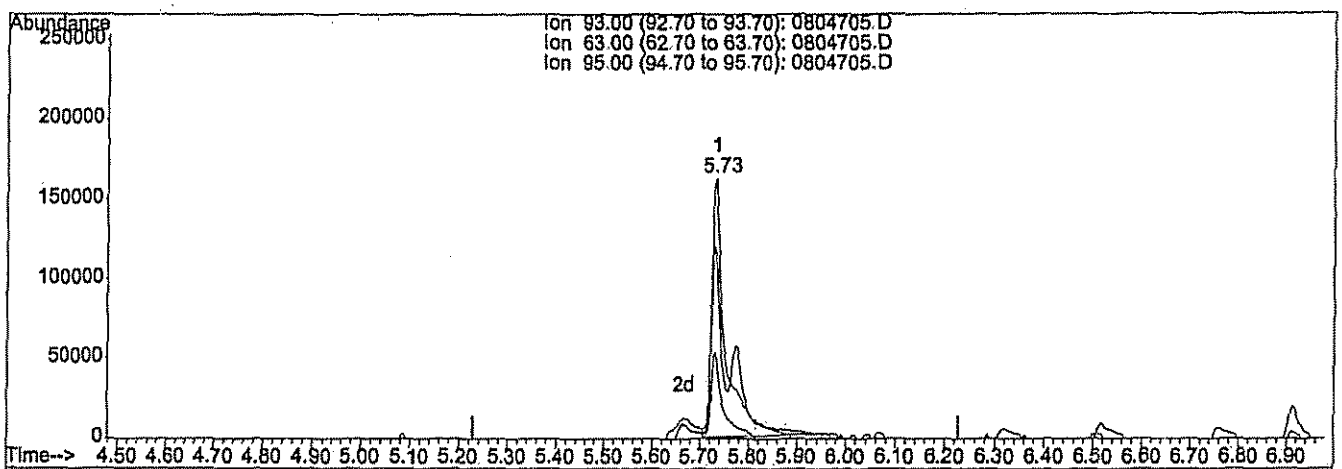
Ion	Exp%	Act%
93.00	100	100
63.00	69.10	70.53
95.00	30.60	31.47
0.00	0.00	0.00

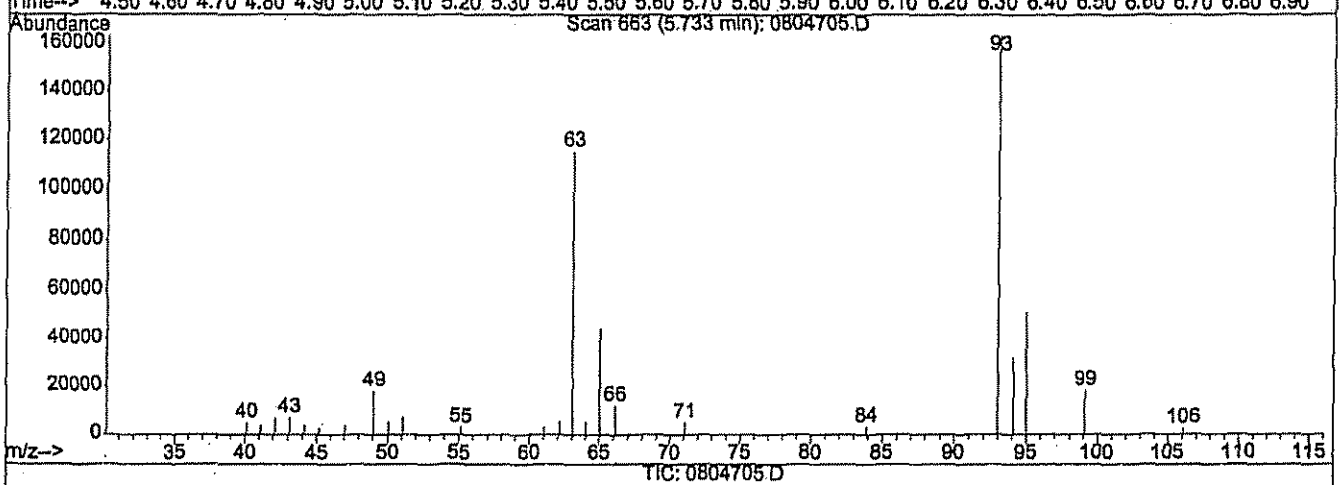
0804705.D 8270.M Thu Aug 04 12:02:00 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:01 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.73min 7.69ug/mL

response 326146

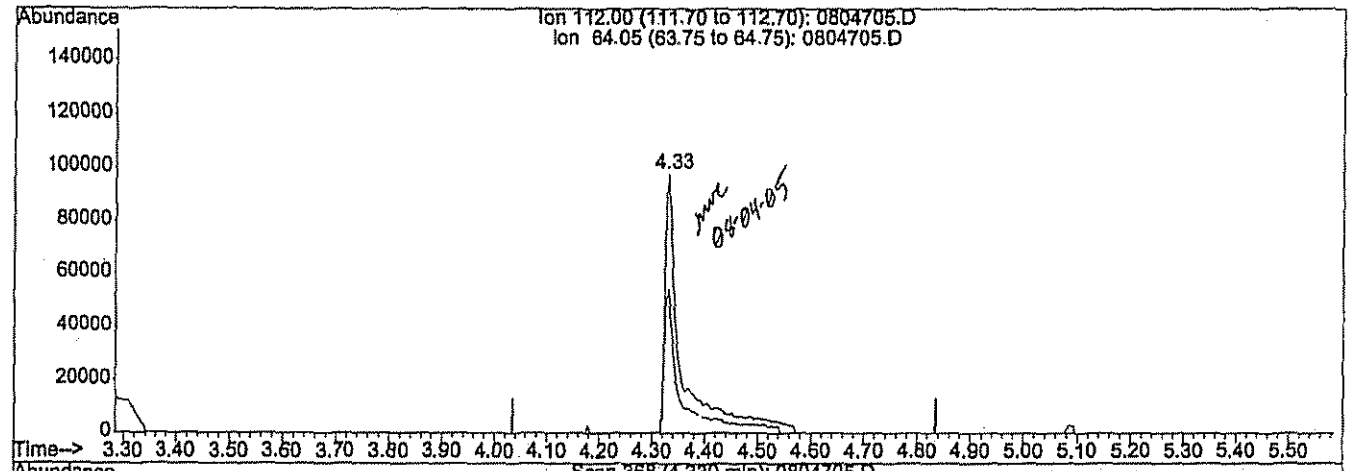
Ion	Exp%	Act%
93.00	100	100
63.00	69.10	71.91
95.00	30.60	32.09
0.00	0.00	0.00

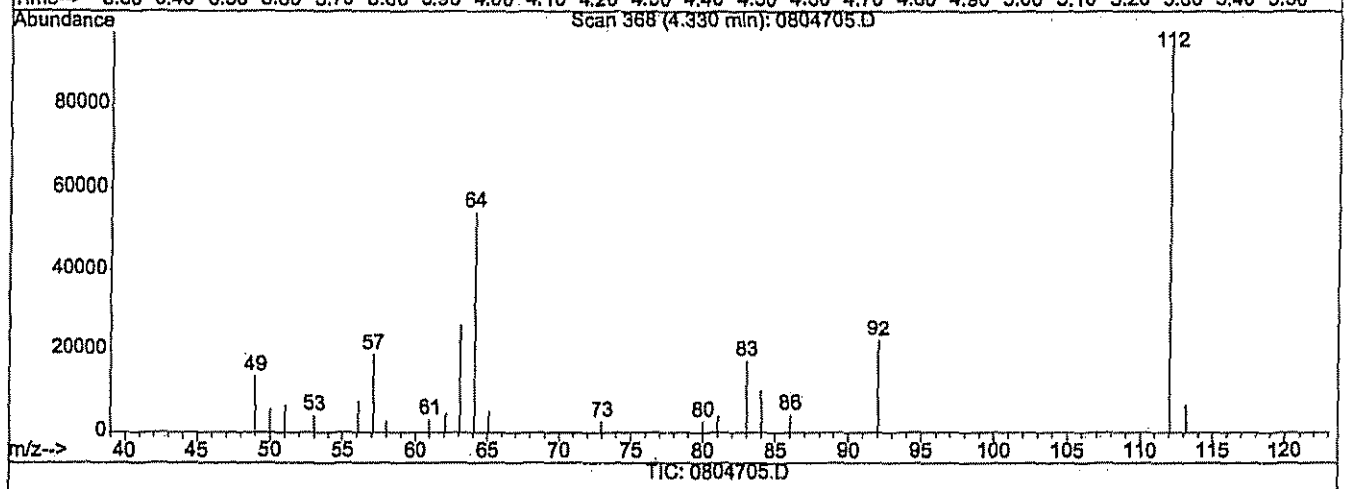
0804705.D 8270.M Thu Aug 04 12:01:42 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:02 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

4.33min 6.63ug/mL m

response 227499

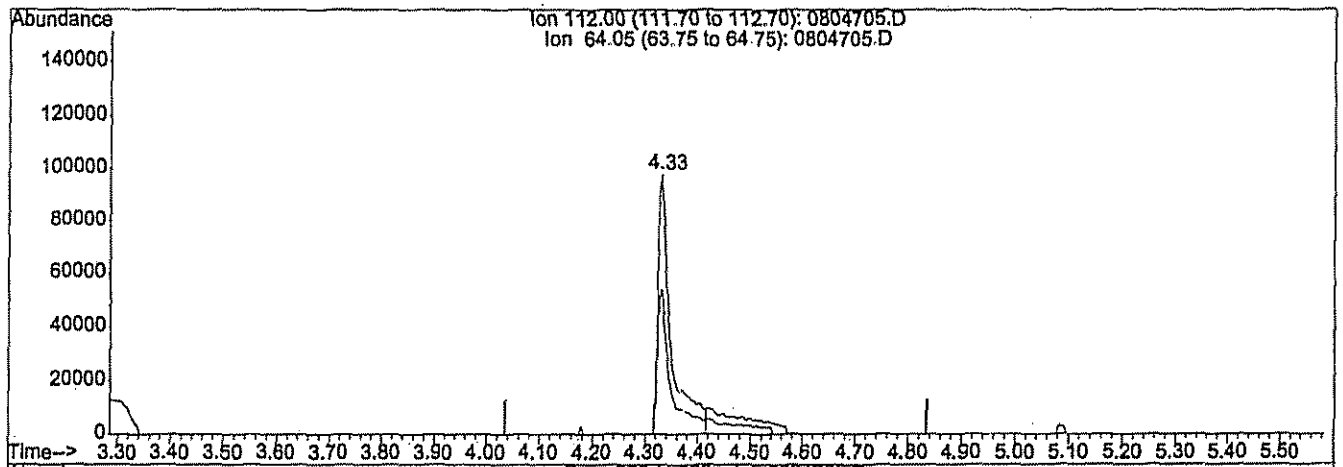
Ion	Exp%	Act%
112.00	100	100
64.05	42.10	42.17
0.00	0.00	0.00
0.00	0.00	0.00

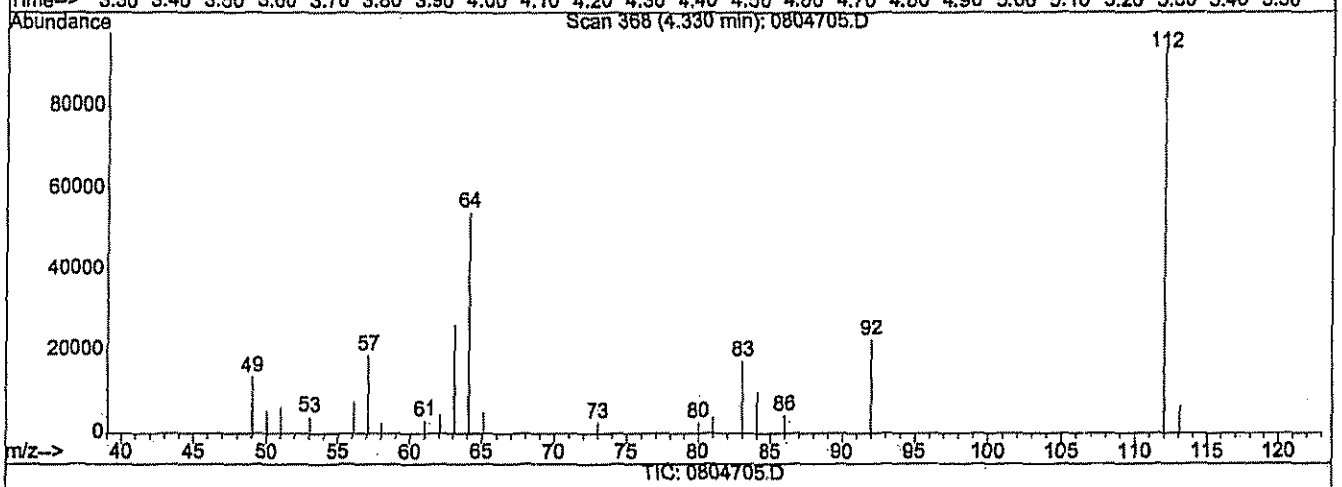
0804705.D 8270.M Thu Aug 04 12:02:17 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804705.D Vial: 5
Acq On : 4 Aug 2005 11:25 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 12:01 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 11:37:11 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

4.33min 5.05ug/mL

response 173512

Ion	Exp%	Act%
112.00	100	100
64.05	42.10	55.30#
0.00	0.00	0.00
0.00	0.00	0.00

0804705.D 8270.M Thu Aug 04 12:02:13 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:17:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08.04.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	200021	4.00	ug/mL	0.00
18) Naphthalene-D8	7.94	136	805684	4.00	ug/mL	0.00
33) Acenaphthene-d10	10.70	164	384605	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.05	188	602595	4.00	ug/mL	0.00
85) Chrysene-D12	17.28	240	397739	4.00	ug/mL	0.00
93) Perylene-D12	19.38	264	314784	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.34	112	372404m	8.44	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	84.40%	
17) Phenol-d6 (surr)	5.64	99	531861	7.95	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	79.50%	
32) Nitrobenzene-d5 (surr)	6.88	128	206493	8.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	81.40%	
53) 2-Fluorobiphenyl (surr)	9.68	172	851379	8.10	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	81.00%	
54) 2,4,6-Tribromophenol (surr	11.97	330	100214	8.36	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	83.60%	
92) 4-Terphenyl-d14 (surr)	15.66	244	728198	7.76	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	77.60%	

Target Compounds						Qvalue
2) Pyridine	2.78	79	311799	9.41	ug/mL	98
3) N-Nitrosodimethylamine	2.81	74	217530	8.05	ug/mL	97
4) Phenol	5.66	94	447782m	9.04	ug/mL	
5) Bis(2-chloroethyl)ether	5.73	93	380073m	7.19	ug/mL	
6) 2-Chlorophenol	5.77	128	490048m	7.96	ug/mL	
7) Benzyl Alcohol	6.32	108	301174	8.06	ug/mL	97
8) 1,3-Dichlorobenzene	5.96	146	513099	7.88	ug/mL	97
9) 1,4-Dichlorobenzene	6.07	146	535589	7.86	ug/mL	100
10) 1,2-Dichlorobenzene	6.28	146	483312	7.75	ug/mL	99
11) 2-Methylphenol	6.51	107	379811	8.23	ug/mL	98
12) 3-, 4-Methylphenol	6.76	107	517415	8.23	ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.51	45	730337	7.51	ug/mL#	95
14) N-Nitrosodi-n-propylamine	6.71	70	256235	7.85	ug/mL	99
15) Hexachloroethane	6.77	117	180634	8.00	ug/mL	89
19) Nitrobenzene	6.91	77	452022	7.94	ug/mL	99
20) Isophorone	7.29	82	672681	7.58	ug/mL	99
21) 2-Nitrophenol	7.39	139	278438	8.23	ug/mL	96
22) 2,4-Dimethylphenol	7.54	122	386349	8.17	ug/mL	96
23) Benzoic Acid	7.84	122	231213	11.74	ug/mL	97
24) Bis(2-chloroethoxy)methane	7.66	93	513831	8.01	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0804706.D 8270.M Thu Aug 04 14:35:29 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D
Acq On : 4 Aug 2005 12:00 pm
Sample : SVCAL08
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 04 14:17:21 2005

Vial: 6
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	7.79	162	365940	8.21	ug/mL	99
26) 1,2,4-Trichlorobenzene	7.87	180	389984	7.94	ug/mL	99
27) Naphthalene	7.97	128	1283087	7.91	ug/mL	99
28) 4-Chloroaniline	7.97	127	161861	7.83	ug/mL	98
29) Hexachlorobutadiene	8.21	225	191224	7.89	ug/mL	98
30) 4-Chloro-3-methylphenol	8.95	107	378013	8.15	ug/mL	97
31) 2-Methylnaphthalene	9.07	142	970235	7.79	ug/mL	99
34) Hexachlorocyclopentadiene	9.33	237	59645	15.65	ug/mL	98
35) 2,4,6-Trichlorophenol	9.56	196	255258	8.17	ug/mL	97
36) 2,4,5-Trichlorophenol	9.63	196	284477	8.62	ug/mL	99
37) 2-Chloronaphthalene	9.82	162	752121	8.09	ug/mL	99
38) 2-Nitroaniline	10.06	65	179863	7.55	ug/mL	94
39) 3-Nitroaniline	11.04	138	19804	9.04	ug/mL	100
40) 1-Methylnaphthalene	9.21	142	859573	7.87	ug/mL	97
41) Dimethylphthalate	10.37	163	826923	7.78	ug/mL	99
42) Acenaphthylene	10.47	152	1106504	8.23	ug/mL	100
43) 2,6-Dinitrotoluene	10.45	165	184762	8.26	ug/mL	98
44) Acenaphthene	10.75	153	759135	7.97	ug/mL	98
45) 2,4-Dinitrophenol	10.90	184	119493	8.46	ug/mL	90
46) 4-Nitrophenol	11.13	109	68220	16.51	ug/mL	87
47) Dibenzofuran	11.04	168	1104085	7.88	ug/mL	98
48) 2,4-Dinitrotoluene	11.09	165	240684	7.98	ug/mL	99
49) Fluorene	11.58	166	819883	7.95	ug/mL	99
50) Diethylphthalate	11.51	149	820314	7.80	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.62	204	385403	8.01	ug/mL	98
52) 4-Nitroaniline	11.76	138	77317m	17.16	ug/mL	
56) 4,6-Dinitro-2-methylphenol	11.73	198	152042	9.08	ug/mL	97
57) Diphenylamine	11.83	169	256144	6.72	ug/mL	99
58) 4-bromophenyl phenyl ether	12.39	248	211523	8.23	ug/mL	99
59) Hexachlorobenzene	12.45	284	216136	8.02	ug/mL	100
60) Pentachlorophenol	12.81	266	113312	12.28	ug/mL	98
61) Phenanthrene	13.09	178	1202940	7.88	ug/mL	99
62) Carbazole	13.49	167	256049	8.27	ug/mL	97
63) Anthracene	13.17	178	1132064	7.88	ug/mL	100
64) Azobenzene	11.87	77	844701	7.87	ug/mL	99
65) Di-n-Butylphthalate	14.14	149	1429016	7.89	ug/mL	100
66) Fluoranthene	14.98	202	1126698	7.90	ug/mL	100
67) alpha-BHC	12.39	183	144323	8.29	ug/mL	99
68) beta-BHC	12.78	181	124934	8.22	ug/mL	98
69) gamma-BHC	12.87	183	128776	7.94	ug/mL	100
70) delta-BHC	13.27	183	118444	8.16	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:17:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	161538	8.05 ug/mL	96
72)	Aldrin	14.34	66	151707	7.87 ug/mL	96
73)	Heptachlor Epoxide	14.85	353	64910	8.09 ug/mL	98
74)	Endosulfan I	15.33	195	37889	8.52 ug/mL	95
75)	4,4'-DDE	15.59	246	239496	8.09 ug/mL	99
76)	Dieldrin	15.67	79	194926	8.22 ug/mL	98
77)	Endrin	15.67	263	36303	8.63 ug/mL	92
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.12	235	431426	8.10 ug/mL#	99
80)	Endosulfan Sulfate	16.56	272	60712	9.14 ug/mL	99
81)	4,4'-DDT	16.59	235	335624	8.63 ug/mL	97
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.16	317	45862	8.89 ug/mL	98
84)	Methoxychlor	17.27	227	739162	9.33 ug/mL	97
86)	Pyrene	15.33	202	1084742	7.56 ug/mL	96
87)	Butylbenzylphthalate	16.51	149	620334	7.69 ug/mL	98
88)	Benzo[a]anthracene	17.26	228	940913	7.94 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.29	252	104012	7.79 ug/mL	98
90)	Chrysene	17.31	228	849141	7.83 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	17.48	149	869952	7.73 ug/mL	99
94)	Di-n-octylphthalate	18.46	149	1401719	7.03 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	756033	7.58 ug/mL	99
96)	Benzo[k]fluoranthene	18.90	252	814461	7.80 ug/mL	100
97)	Benzo[a]pyrene	19.30	252	632382	7.81 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.02	276	507775	8.71 ug/mL	98
99)	Dibenzo[a,h]anthracene	21.06	278	388247	9.00 ug/mL	97
100)	Benzo[g,h,i]perylene	21.49	276	445681	8.71 ug/mL	97

(#) = qualifier out of range (m) = manual integration

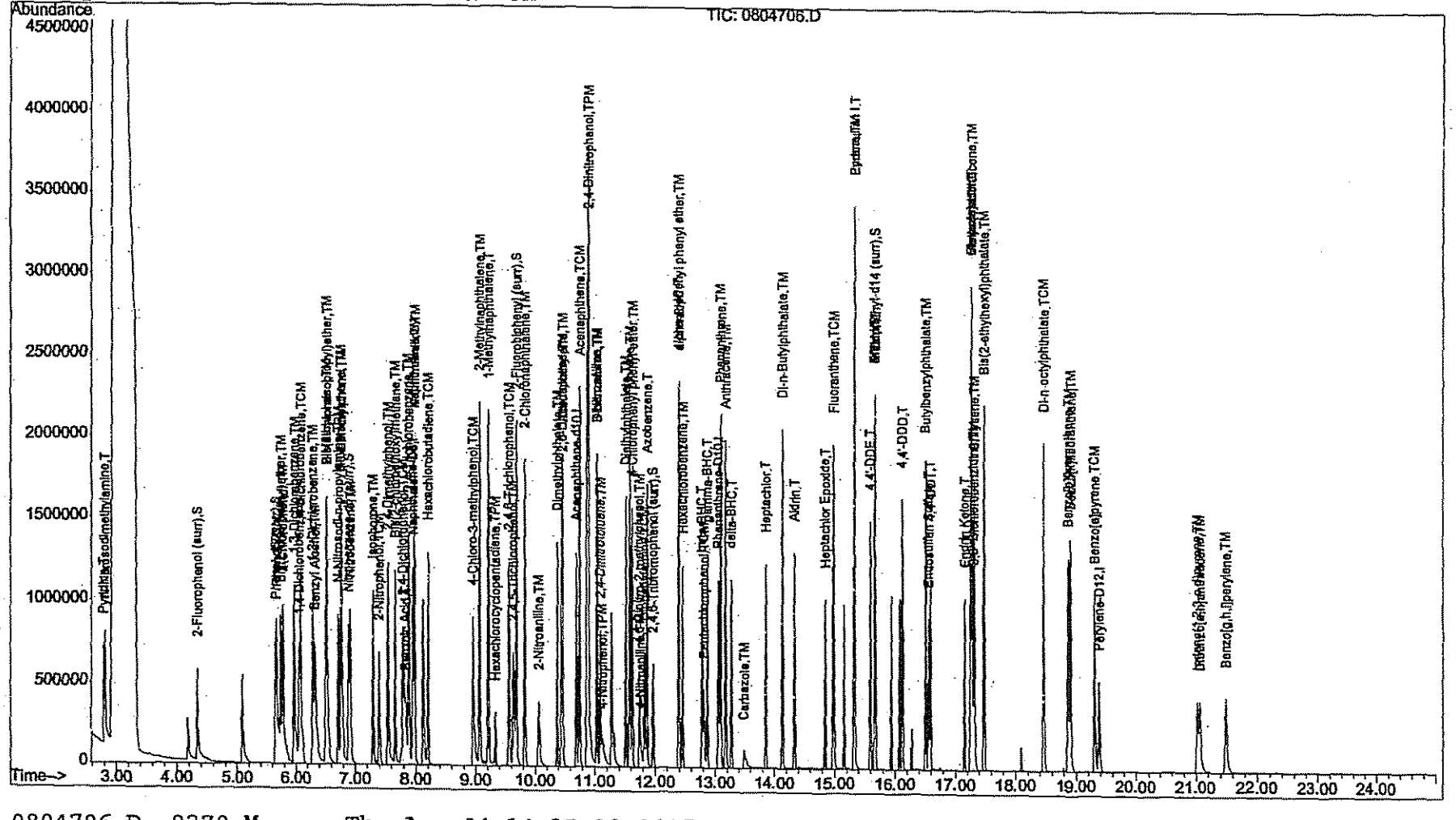
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D
Acq On : 4 Aug 2005 12:00 pm
Sample : SVCAL08
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 14:18 2005

Vial: 6
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0804706.D 8270.M Thu Aug 04 14:35:32 2005 ENV

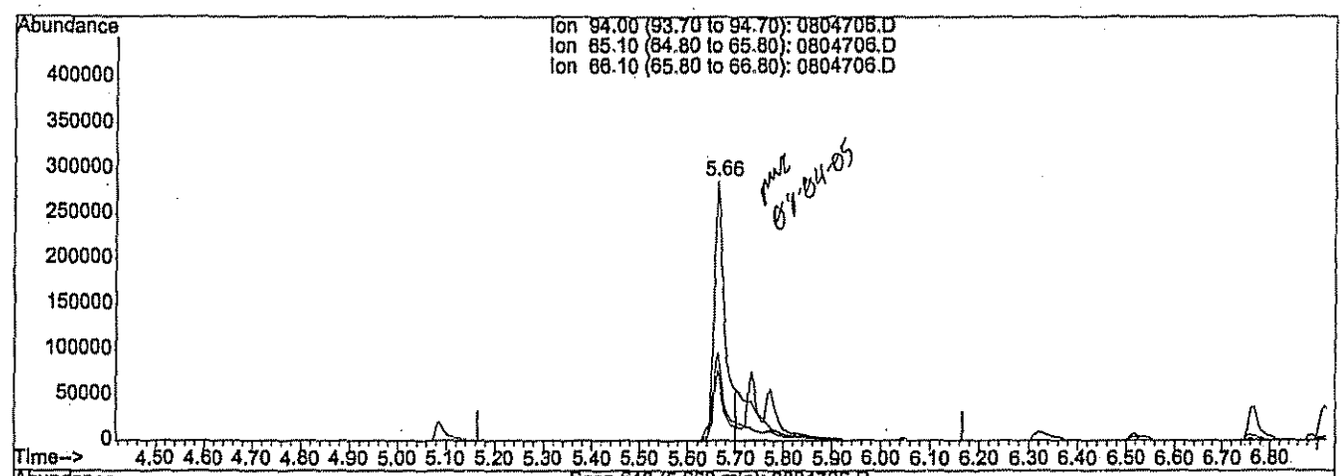
PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.66min 9.04ug/mL m

response 447782

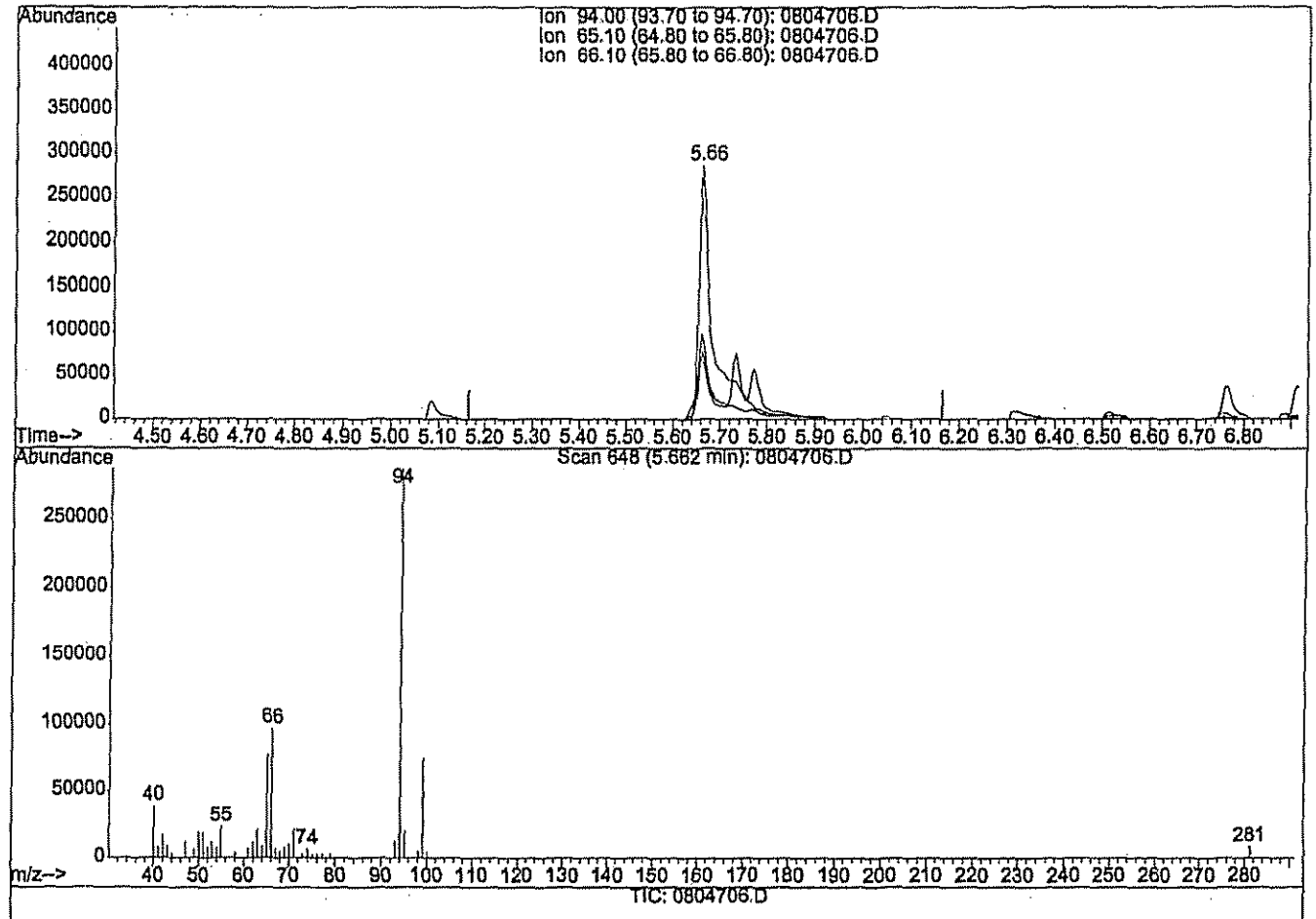
Ion	Exp%	Act%
94.00	100	100
65.10	26.50	26.86
66.10	35.40	33.89
0.00	0.00	0.00

0804706.D 8270.M Thu Aug 04 14:17:36 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.66min 12.79ug/mL

response 633227

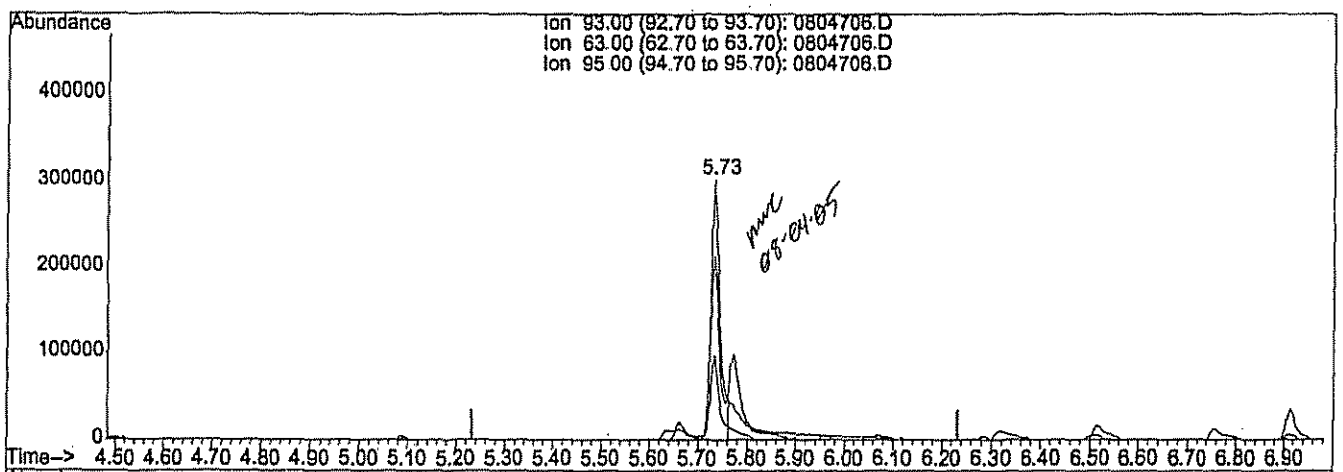
Ion	Exp%	Act%
94.00	100	100
65.10	26.50	25.75
66.10	35.40	32.68
0.00	0.00	0.00

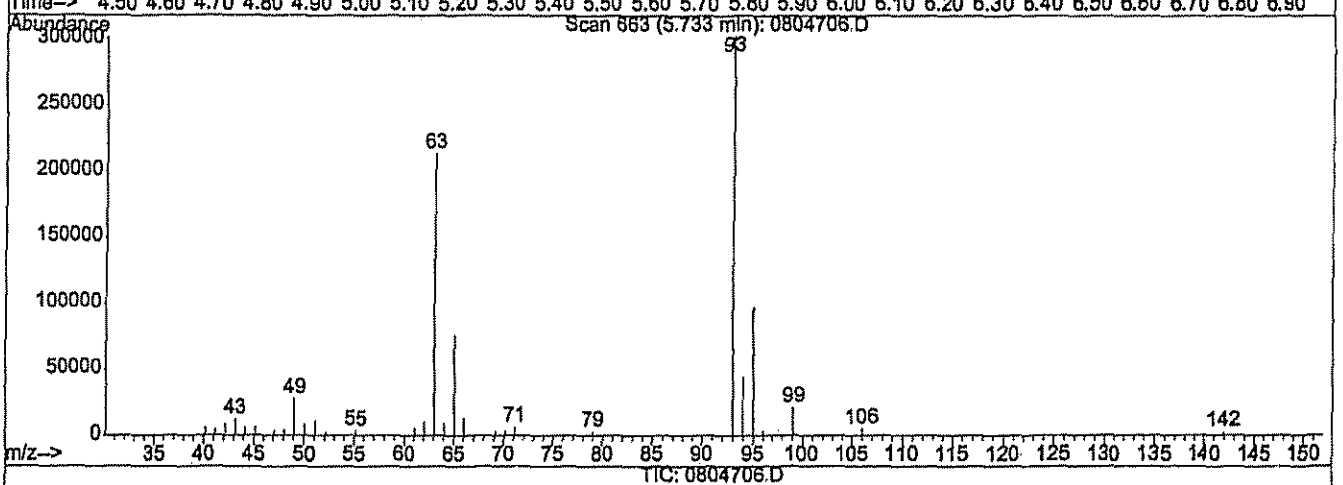
0804706.D 8270.M Thu Aug 04 14:17:31 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.73min 7.19ug/mL m

response 380073

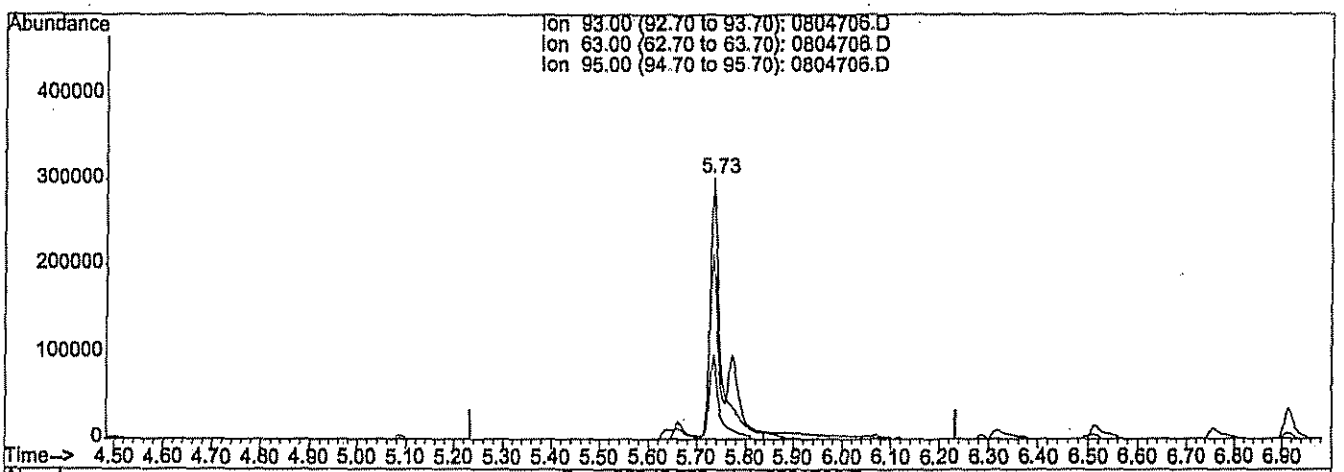
Ion	Exp%	Act%
93.00	100	100
63.00	70.50	70.60
95.00	31.50	32.15
0.00	0.00	0.00

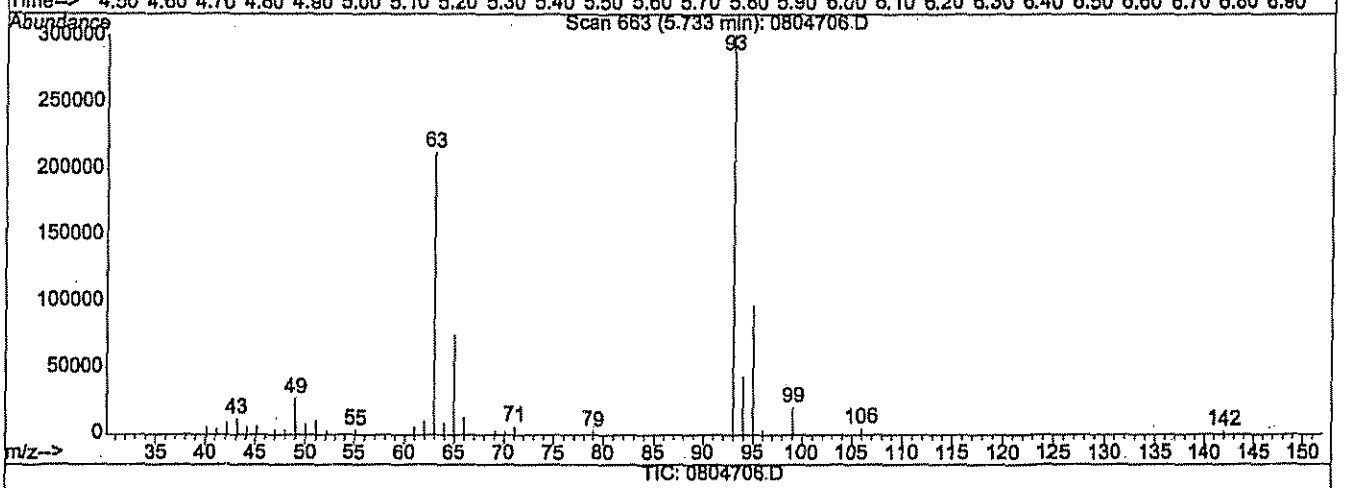
0804706.D 8270.M Thu Aug 04 14:17:47 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration





TIC: 0804706.D

(5) Bis(2-chloroethyl)ether (TM)

5.73min 8.84ug/mL

response 467358

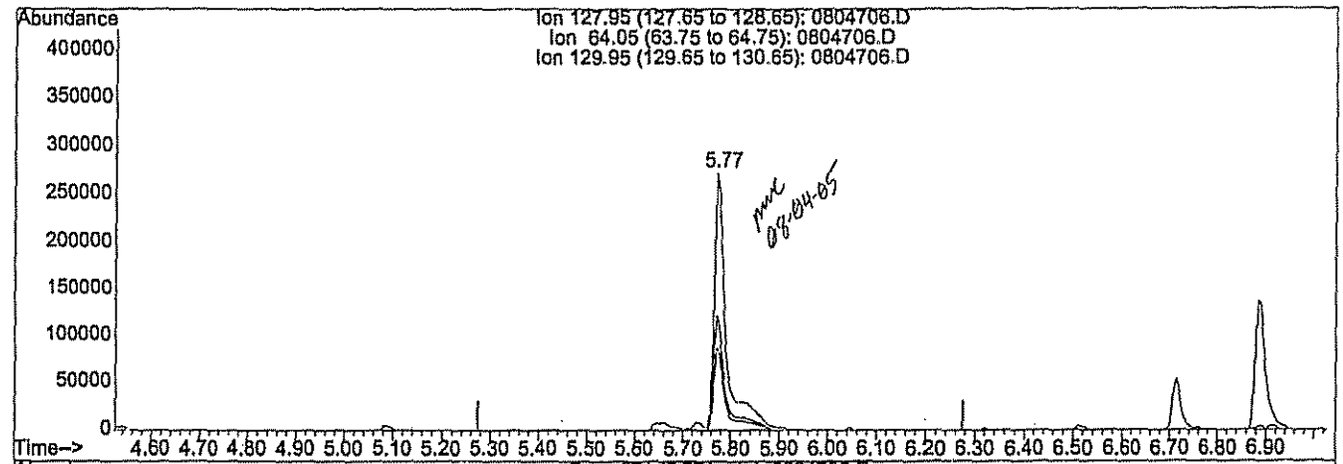
Ion	Exp%	Act%
93.00	100	100
63.00	70.50	69.30
95.00	31.50	32.15
0.00	0.00	0.00

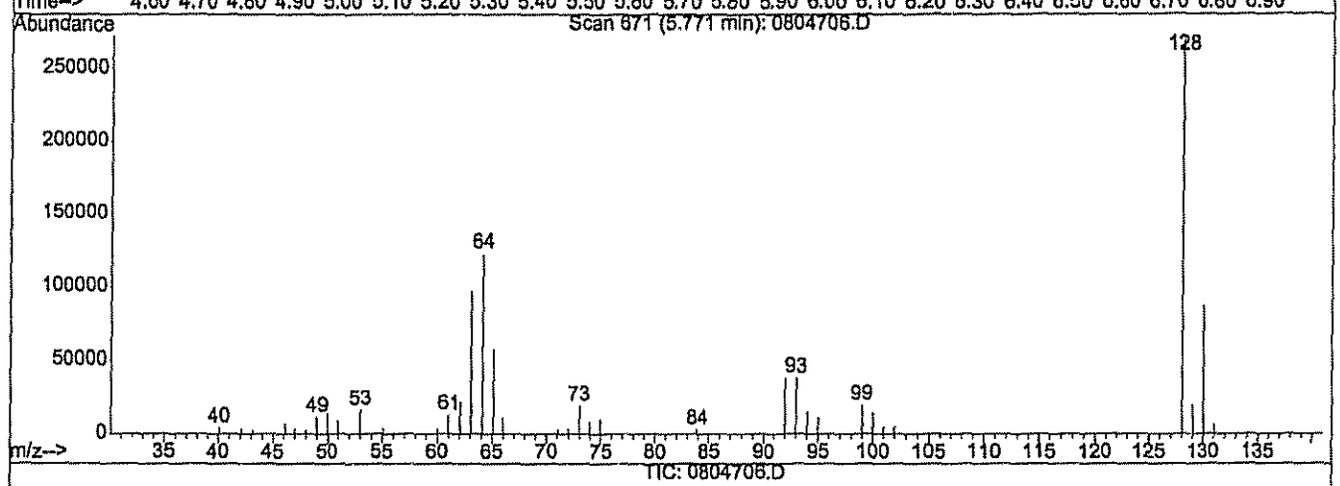
0804706.D 8270.M Thu Aug 04 14:17:40 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration





TIC: 0804706.D

(6) 2-Chlorophenol (TM)

5.77min 7.96ug/mL m

response 490048

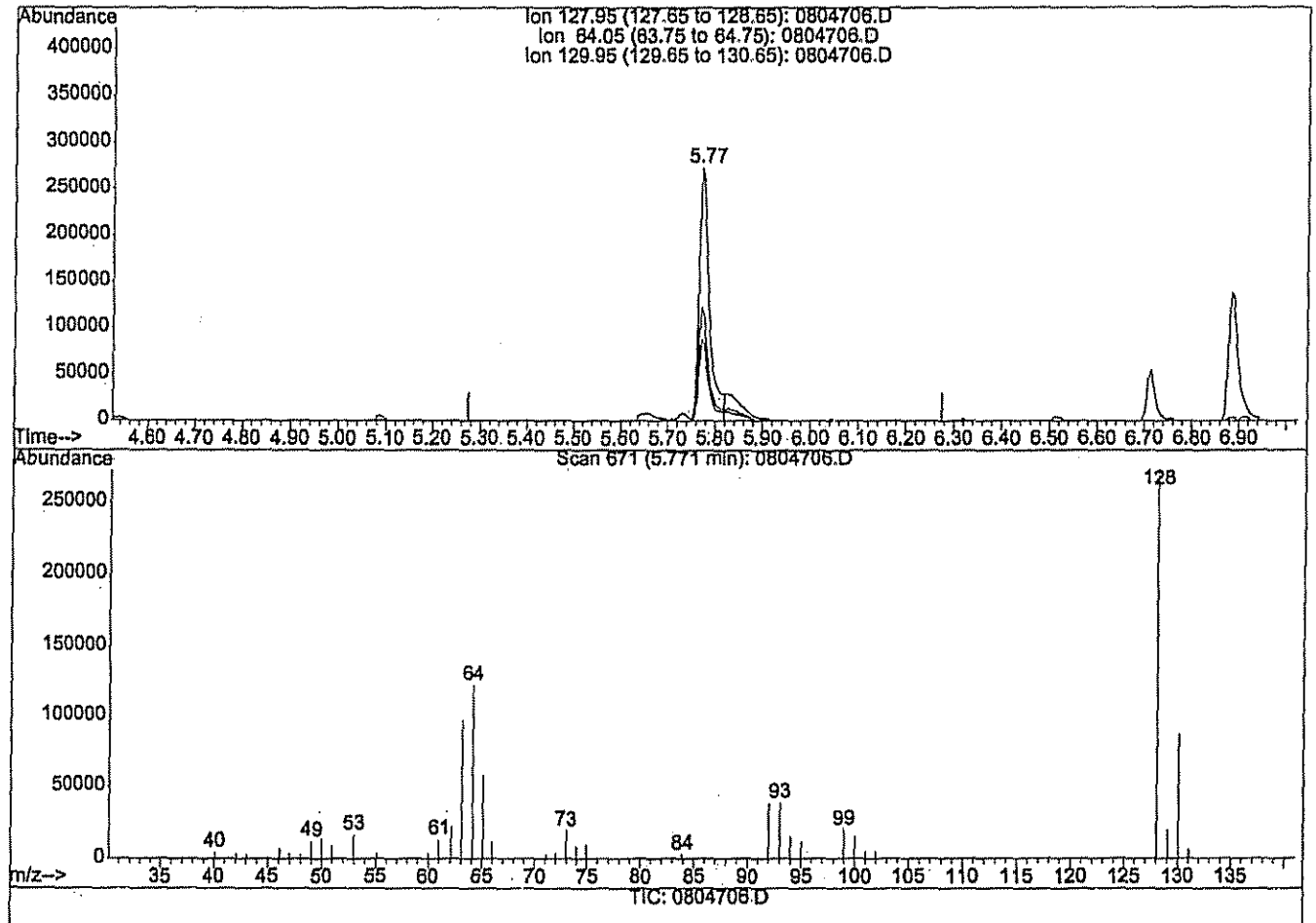
Ion	Exp%	Act%
127.95	100	100
64.05	45.80	44.91
129.95	32.80	32.06
0.00	0.00	0.00

0804706.D 8270.M Thu Aug 04 14:18:00 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration



(6) 2-Chlorophenol (TM)

5.77min 6.75ug/mL

response 415518

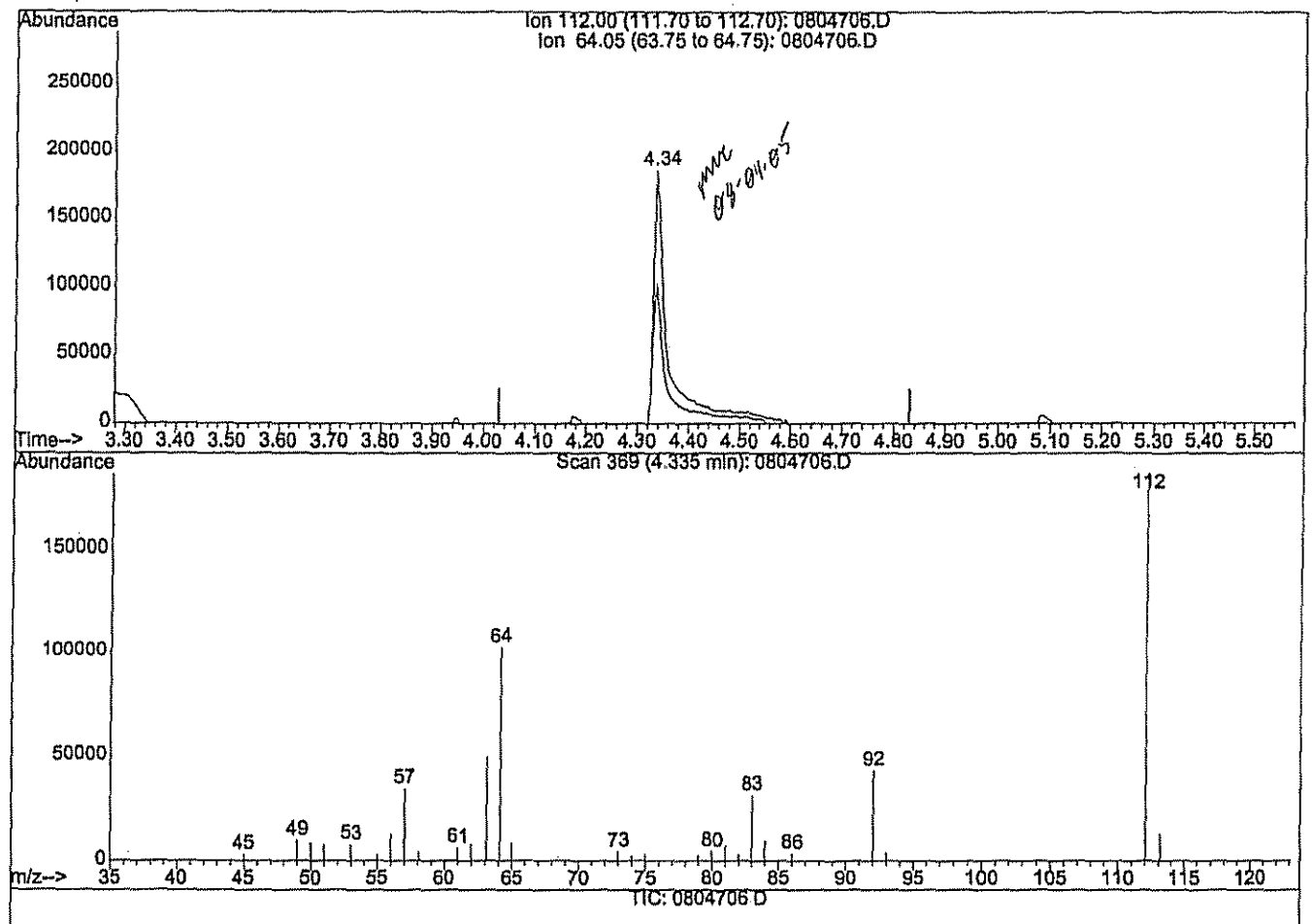
Ion	Exp%	Act%
127.95	100	100
64.05	45.80	43.91
129.95	32.80	32.06
0.00	0.00	0.00

0804706.D 8270.M Thu Aug 04 14:17:56 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:18 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

4.34min 8.44ug/mL m

response 372404

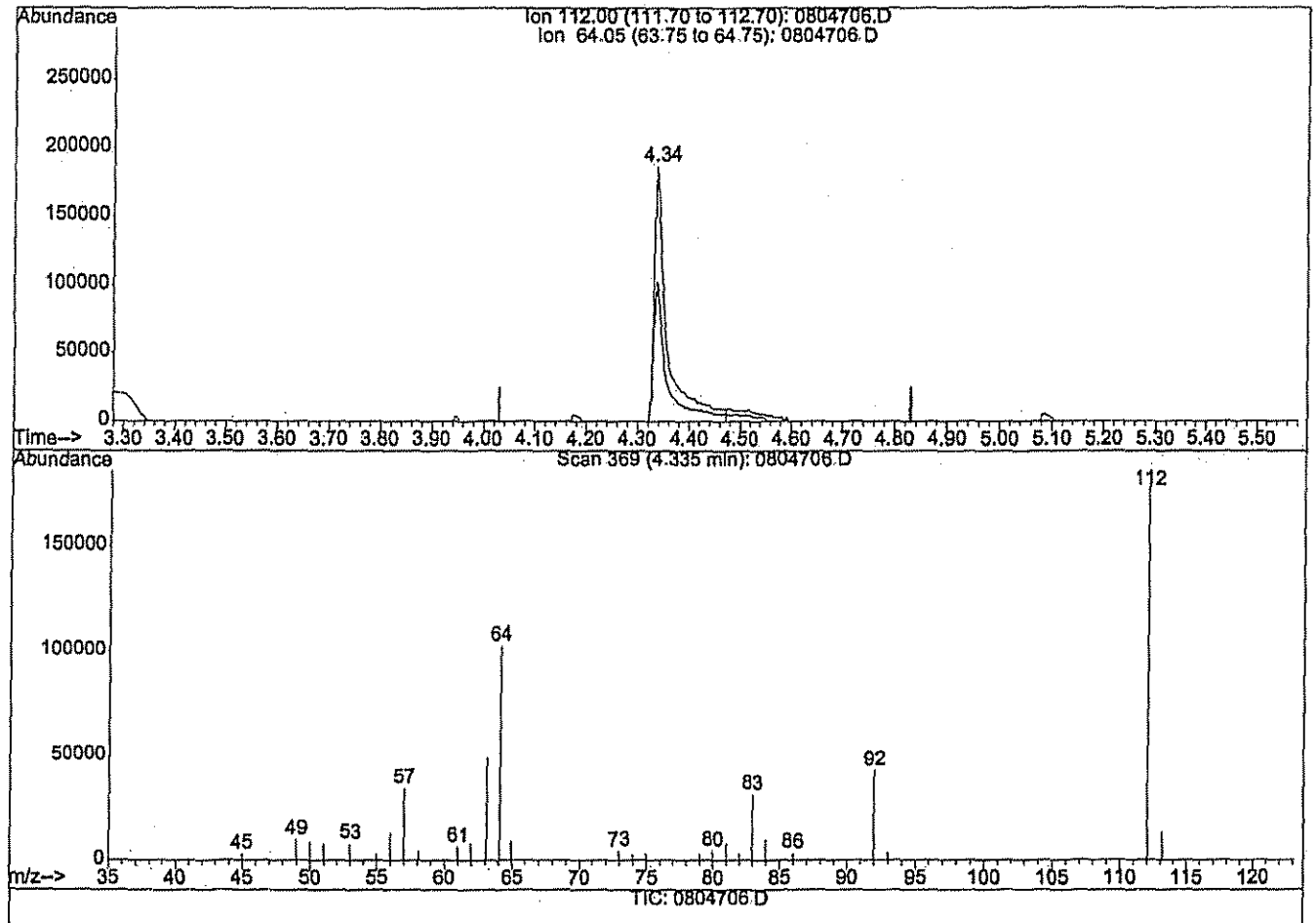
Ion	Exp%	Act%
112.00	100	100
64.05	42.20	46.84
0.00	0.00	0.00
0.00	0.00	0.00

0804706.D 8270.M Thu Aug 04 14:18:13 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D Vial: 6
Acq On : 4 Aug 2005 12:00 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 12:07:57 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

4.34min 7.54ug/mL

response 332823

Ion	Exp%	Act%
112.00	100	100
64.05	42.20	54.65#
0.00	0.00	0.00
0.00	0.00	0.00

0804706.D 8270.M Thu Aug 04 14:18:09 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:19:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08-04-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.04	152	163873	4.00	ug/mL	0.00
18) Naphthalene-D8	7.94	136	653225	4.00	ug/mL	0.00
33) Acenaphthene-d10	10.70	164	315938	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.06	188	494916	4.00	ug/mL	0.00
85) Chrysene-D12	17.27	240	333628	4.00	ug/mL	0.00
93) Perylene-D12	19.38	264	244559	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.33	112	492440m	13.54	ug/mL	0.00
Spiked Amount 10.000			Recovery =		135.40%	
17) Phenol-d6 (surr)	5.64	99	683989	12.52	ug/mL	0.00
Spiked Amount 10.000			Recovery =		125.20%	
32) Nitrobenzene-d5 (surr)	6.88	128	264984	12.87	ug/mL	0.00
Spiked Amount 10.000			Recovery =		128.70%	
53) 2-Fluorobiphenyl (surr)	9.68	172	1076782	12.42	ug/mL	0.00
Spiked Amount 10.000			Recovery =		124.20%	
54) 2,4,6-Tribromophenol (surr	11.97	330	127423	12.96	ug/mL	0.00
Spiked Amount 10.000			Recovery =		129.60%	
92) 4-Terphenyl-d14 (surr)	15.67	244	928251	11.82	ug/mL	0.00
Spiked Amount 10.000			Recovery =		118.20%	
Target Compounds						Qvalue
2) Pyridine	2.78	79	356120	12.67	ug/mL	99
3) N-Nitrosodimethylamine	2.80	74	257520	11.62	ug/mL	98
4) Phenol	5.66	94	561075m	13.48	ug/mL	
5) Bis(2-chloroethyl)ether	5.73	93	430527m	10.15	ug/mL	
6) 2-Chlorophenol	5.77	128	630026	12.50	ug/mL	99
7) Benzyl Alcohol	6.32	108	394741	12.98	ug/mL	96
8) 1,3-Dichlorobenzene	5.96	146	653110	12.24	ug/mL	96
9) 1,4-Dichlorobenzene	6.07	146	690859	12.37	ug/mL	98
10) 1,2-Dichlorobenzene	6.28	146	620803	12.16	ug/mL	100
11) 2-Methylphenol	6.51	107	483657	12.82	ug/mL	97
12) 3-, 4-Methylphenol	6.76	107	669182	13.07	ug/mL	100
13) Bis(2-chloroisopropyl)ethe	6.51	45	924135	11.70	ug/mL	96
14) N-Nitrosodi-n-propylamine	6.71	70	327450	12.33	ug/mL	99
15) Hexachloroethane	6.76	117	229195	12.38	ug/mL	97
19) Nitrobenzene	6.91	77	573385	12.45	ug/mL	100
20) Isophorone	7.29	82	859441	11.99	ug/mL	100
21) 2-Nitrophenol	7.39	139	358654	13.04	ug/mL	100
22) 2,4-Dimethylphenol	7.54	122	498107	13.04	ug/mL	97
23) Benzoic Acid	7.85	122	308371	17.66	ug/mL	99
24) Bis(2-chloroethoxy)methane	7.66	93	650116	12.54	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:19:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	7.79	162	483578	13.43	ug/mL	98
26) 1,2,4-Trichlorobenzene	7.87	180	499332	12.53	ug/mL	99
27) Naphthalene	7.98	128	1628761	12.38	ug/mL	100
28) 4-Chloroaniline	7.98	127	210973	12.64	ug/mL	100
29) Hexachlorobutadiene	8.21	225	247313	12.59	ug/mL	97
30) 4-Chloro-3-methylphenol	8.95	107	483593	12.91	ug/mL	98
31) 2-Methylnaphthalene	9.07	142	1240826	12.30	ug/mL	98
34) Hexachlorocyclopentadiene	9.33	237	81641	21.89	ug/mL	99
35) 2,4,6-Trichlorophenol	9.56	196	327826	12.76	ug/mL	97
36) 2,4,5-Trichlorophenol	9.62	196	360300	13.26	ug/mL	94
37) 2-Chloronaphthalene	9.82	162	951847	12.43	ug/mL	99
38) 2-Nitroaniline	10.06	65	239647	12.29	ug/mL	98
39) 3-Nitroaniline	11.04	138	25052	13.48	ug/mL	100
40) 1-Methylnaphthalene	9.21	142	1125452	12.55	ug/mL	97
41) Dimethylphthalate	10.38	163	1061318	12.15	ug/mL	99
42) Acenaphthylene	10.47	152	1403699	12.68	ug/mL	100
43) 2,6-Dinitrotoluene	10.46	165	237876	12.94	ug/mL	98
44) Acenaphthene	10.75	153	956126	12.21	ug/mL	99
45) 2,4-Dinitrophenol	10.90	184	159316	13.58	ug/mL	91
46) 4-Nitrophenol	11.12	109	92499	21.53	ug/mL	94
47) Dibenzofuran	11.04	168	1408221	12.22	ug/mL	99
48) 2,4-Dinitrotoluene	11.10	165	305528	12.34	ug/mL	98
49) Fluorene	11.58	166	1026859	12.12	ug/mL	98
50) Diethylphthalate	11.52	149	1037452	12.04	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.62	204	482067	12.18	ug/mL	100
52) 4-Nitroaniline	11.76	138	92970	19.53	ug/mL	93
56) 4,6-Dinitro-2-methylphenol	11.74	198	199861	14.38	ug/mL	93
57) Diphenylamine	11.83	169	320294	10.33	ug/mL	98
58) 4-bromophenyl phenyl ether	12.39	248	265608	12.54	ug/mL	98
59) Hexachlorobenzene	12.45	284	274919	12.36	ug/mL	99
60) Pentachlorophenol	12.81	266	162190	18.87	ug/mL	98
61) Phenanthrene	13.09	178	1534472	12.21	ug/mL	100
62) Carbazole	13.49	167	327254	12.74	ug/mL	99
63) Anthracene	13.18	178	1438961	12.20	ug/mL	100
64) Azobenzene	11.87	77	1070957	12.14	ug/mL	100
65) Di-n-Butylphthalate	14.14	149	1783150	11.99	ug/mL	100
66) Fluoranthene	14.99	202	1470301	12.55	ug/mL	98
67) alpha-BHC	12.40	183	179575	12.51	ug/mL	99
68) beta-BHC	12.78	181	159648	12.81	ug/mL	99
69) gamma-BHC	12.87	183	162828	12.19	ug/mL	100
70) delta-BHC	13.27	183	150576	12.60	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:19:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	205146	12.38 ug/mL	98
72)	Aldrin	14.34	66	187865	11.87 ug/mL	100
73)	Heptachlor Epoxide	14.85	353	81732	12.36 ug/mL	98
74)	Endosulfan I	15.33	195	46323	12.64 ug/mL	98
75)	4,4'-DDE	15.60	246	304838	12.49 ug/mL	98
76)	Dieldrin	15.67	79	235197	12.05 ug/mL	99
77)	Endrin	15.68	263	45263	13.02 ug/mL	95
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.13	235	551351	12.56 ug/mL	100
80)	Endosulfan Sulfate	16.56	272	77988	14.08 ug/mL	100
81)	4,4'-DDT	16.59	235	463677	14.33 ug/mL	91
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.16	317	61060	14.19 ug/mL	96
84)	Methoxychlor	17.27	227	937222	14.00 ug/mL	96
86)	Pyrene	15.33	202	1374575	11.43 ug/mL	99
87)	Butylbenzylphthalate	16.51	149	807631	11.92 ug/mL	98
88)	Benzo[a]anthracene	17.26	228	1234104	12.38 ug/mL	98
89)	3,3'-Dichlorobenzidine	17.29	252	147667	13.16 ug/mL	98
90)	Chrysene	17.32	228	1139216	12.50 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.48	149	1120966	11.85 ug/mL	100
94)	Di-n-octylphthalate	18.46	149	1796106	11.75 ug/mL	100
95)	Benzo[b]fluoranthene	18.86	252	947542	12.29 ug/mL	99
96)	Benzo[k]fluoranthene	18.91	252	1032489	12.75 ug/mL	99
97)	Benzo[a]pyrene	19.31	252	805873	12.83 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.02	276	639217	13.79 ug/mL	100
99)	Dibenzo[a,h]anthracene	21.07	278	488968	14.22 ug/mL	99
100)	Benzo[g,h,i]perylene	21.49	276	545067	13.35 ug/mL	96

(#) = qualifier out of range (m) = manual integration

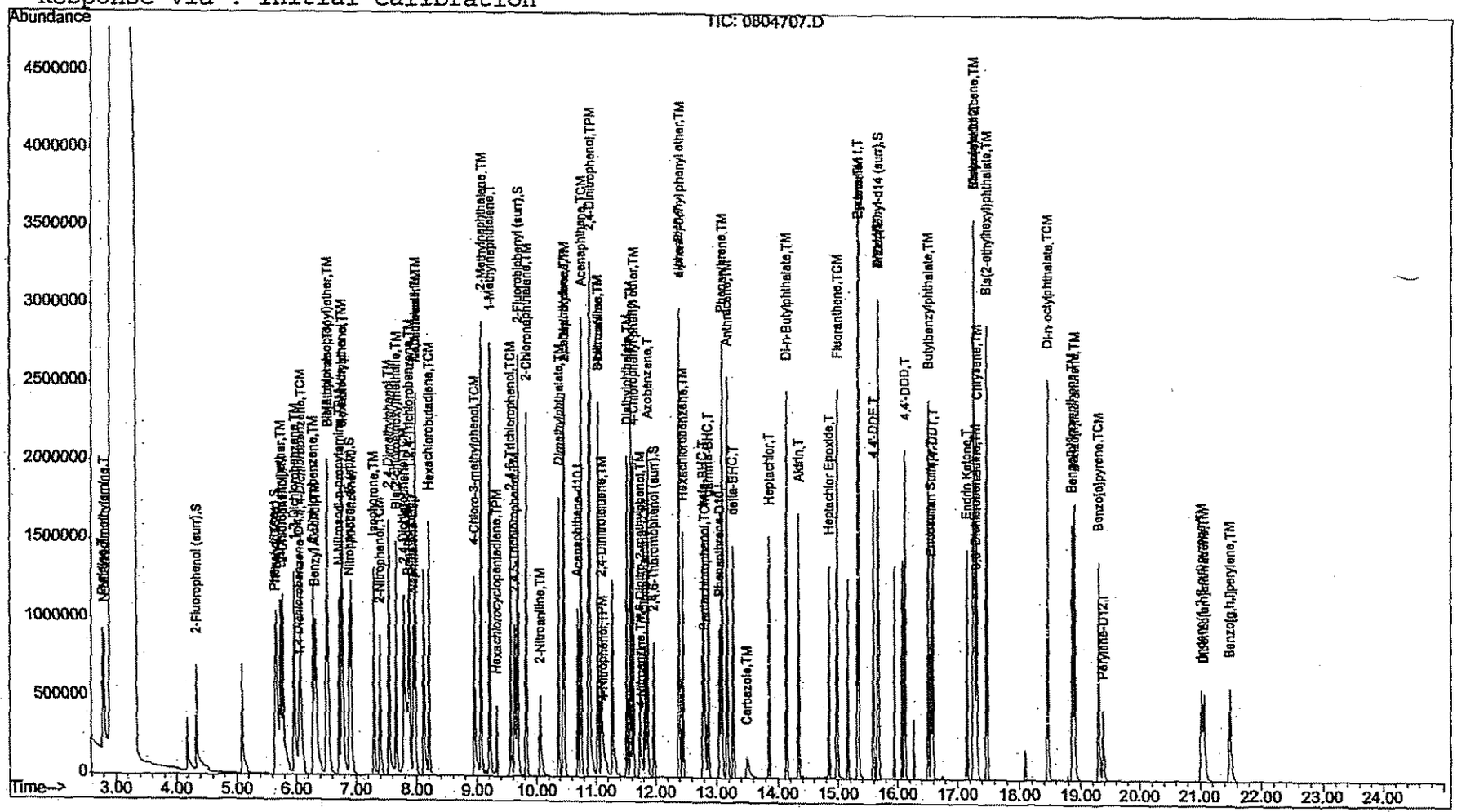
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D
Acq On : 4 Aug 2005 12:34 pm
Sample : SVCAL12
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 14:20 2005

Vial: 7
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



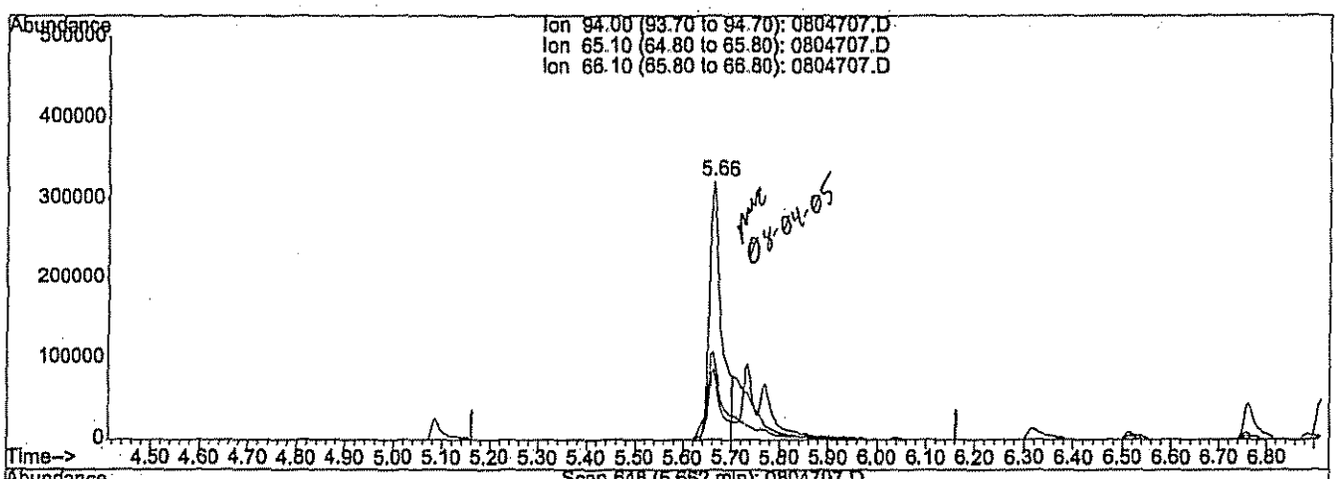
PARADIGM ANALYTICAL LABORATORIES, INC.

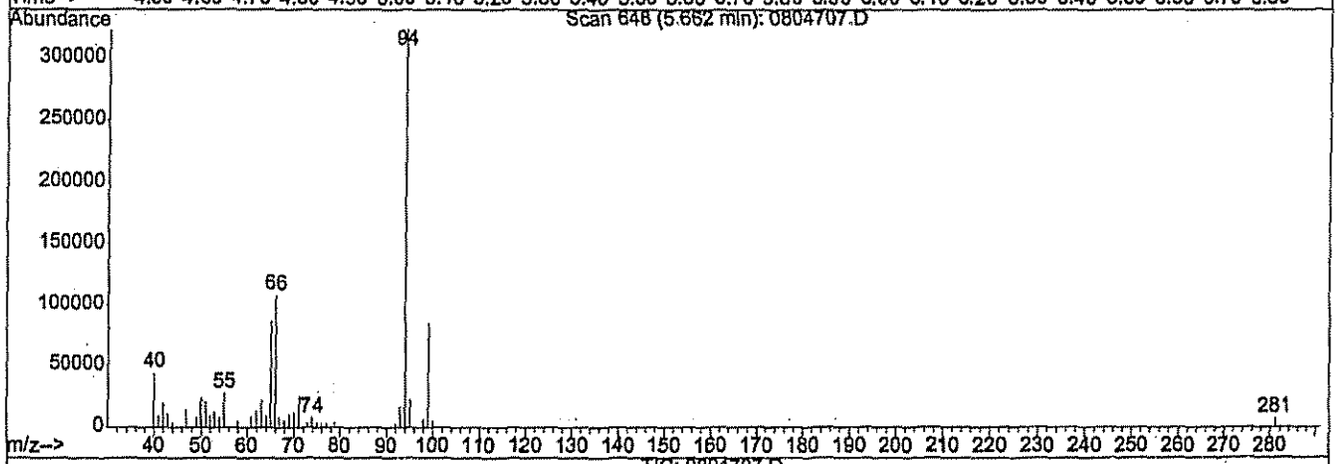
N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:19 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration





(4) Phenol (TCM)

5.66min 13.48ug/mL m

response 561075

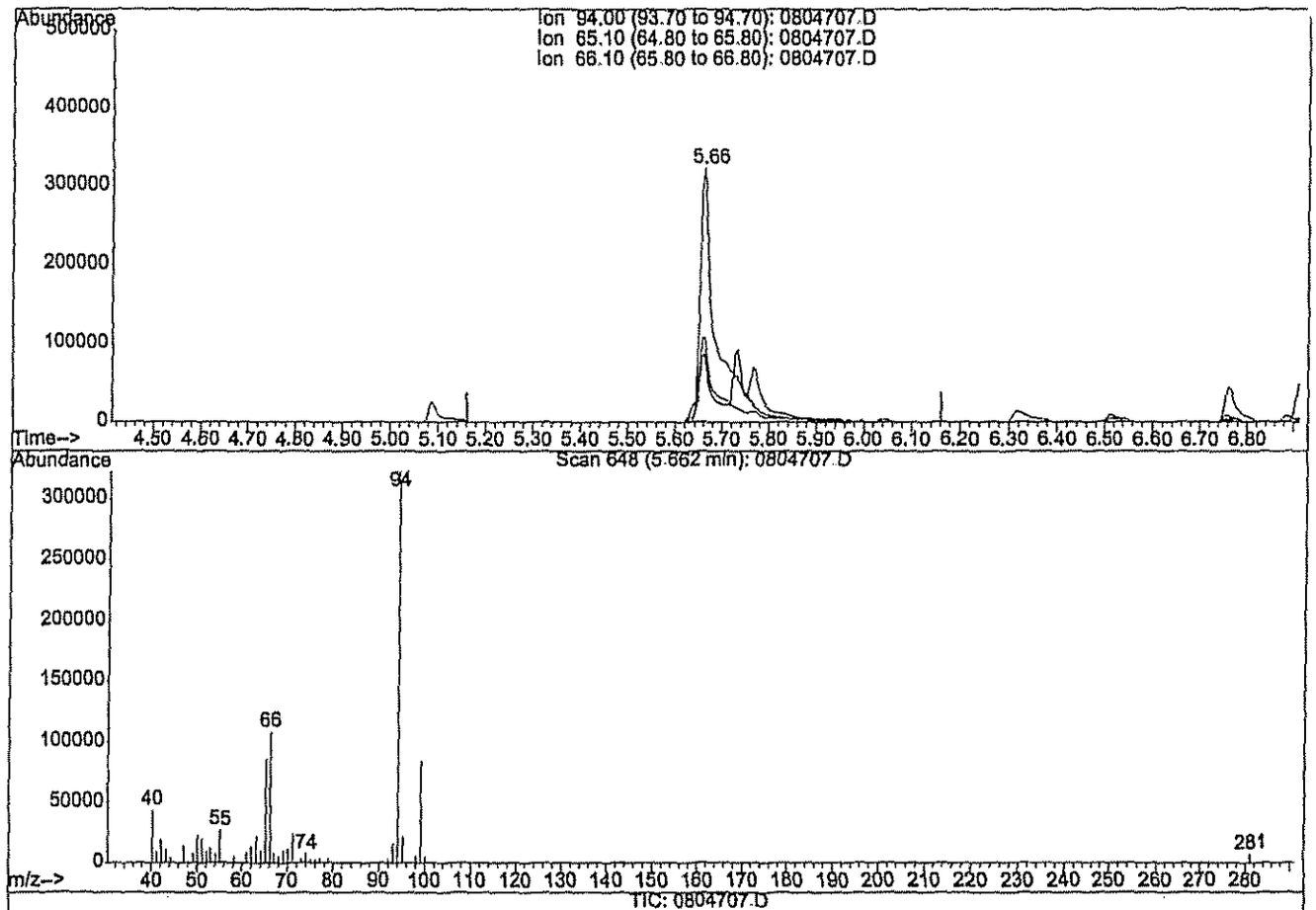
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.76
66.10	33.90	33.50
0.00	0.00	0.00

0804707.D 8270.M Thu Aug 04 14:19:53 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:19 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.66min 19.39ug/mL

response 806913

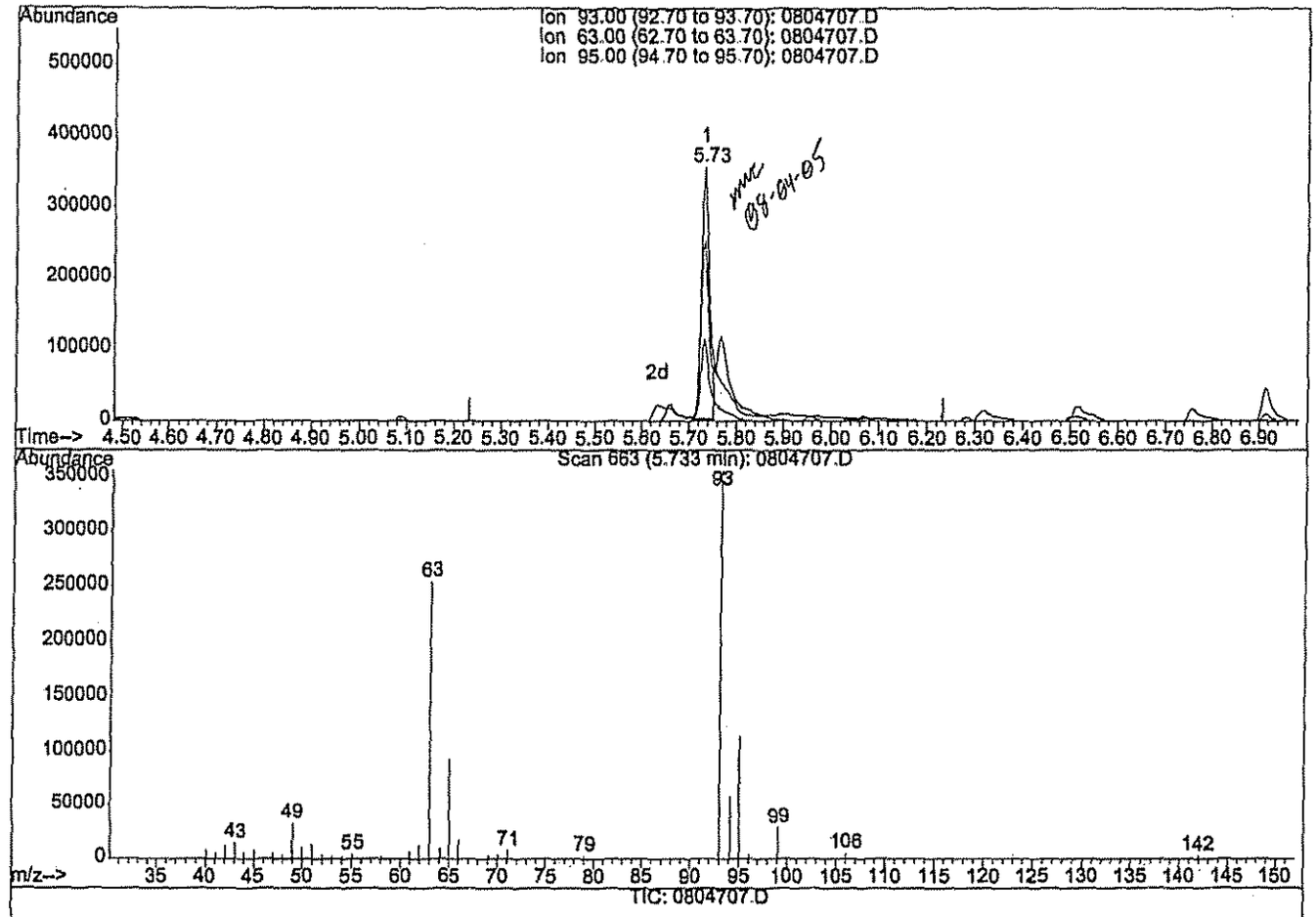
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	25.45
66.10	33.90	32.44
0.00	0.00	0.00

0804707.D 8270.M Thu Aug 04 14:19:49 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.73min 10.15ug/mL m

response 430527

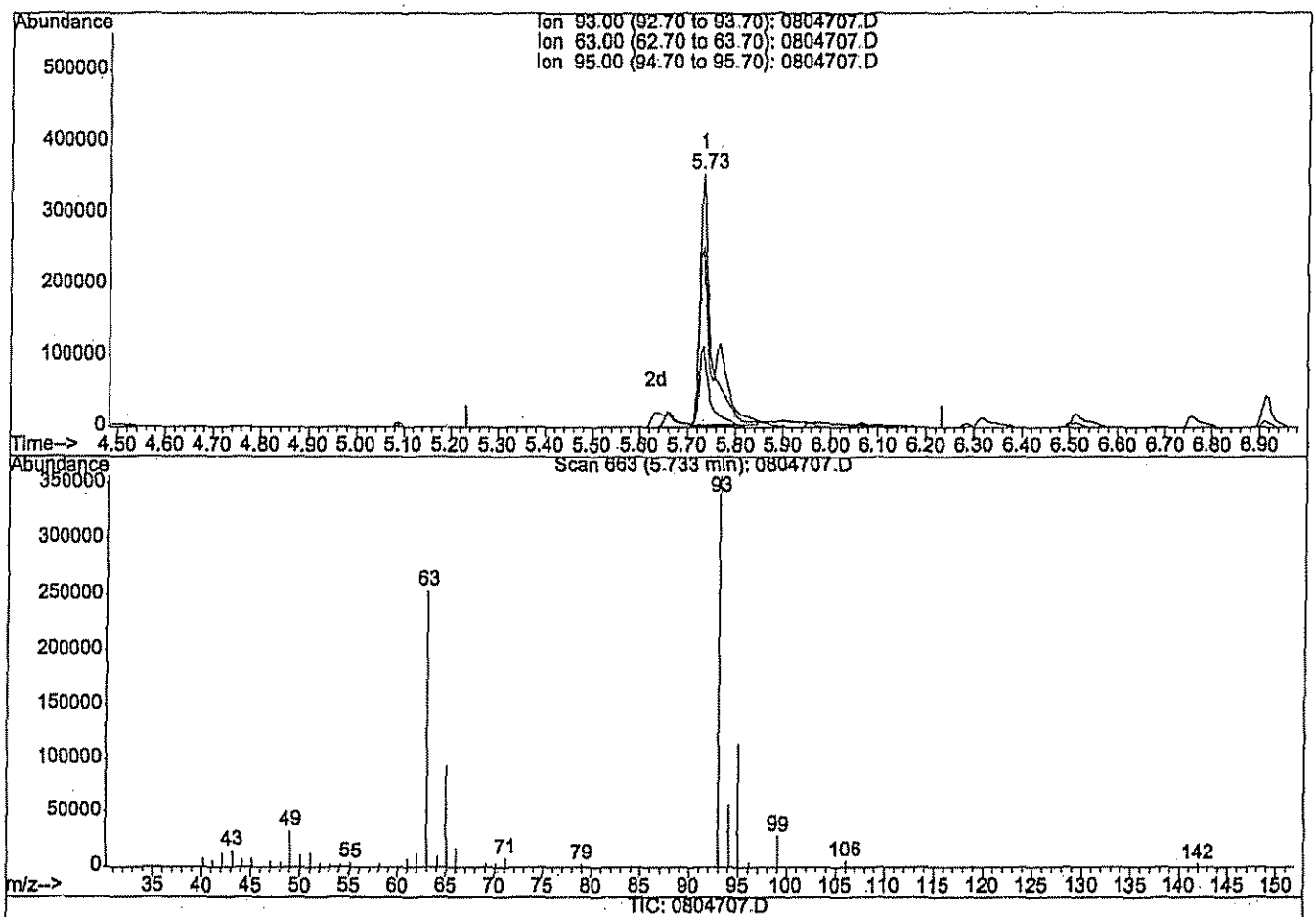
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.23
95.00	32.20	32.10
0.00	0.00	0.00

0804707.D 8270.M Thu Aug 04 14:20:08 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:19 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.73min 13.21ug/mL

response 560414

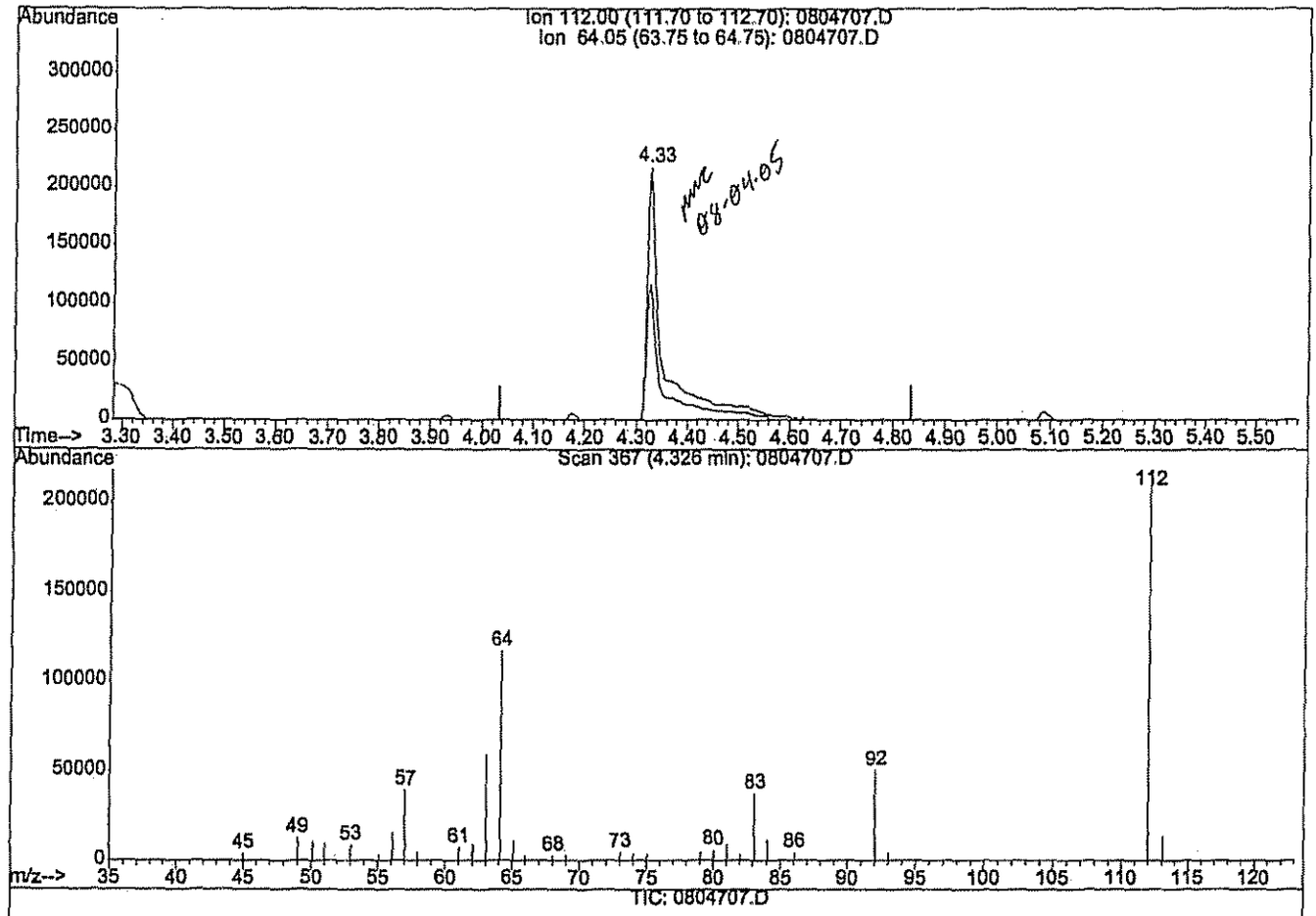
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.51
95.00	32.20	32.50
0.00	0.00	0.00

0804707.D 8270.M Thu Aug 04 14:19:57 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

4.33min 13.54ug/mL m

response 492440

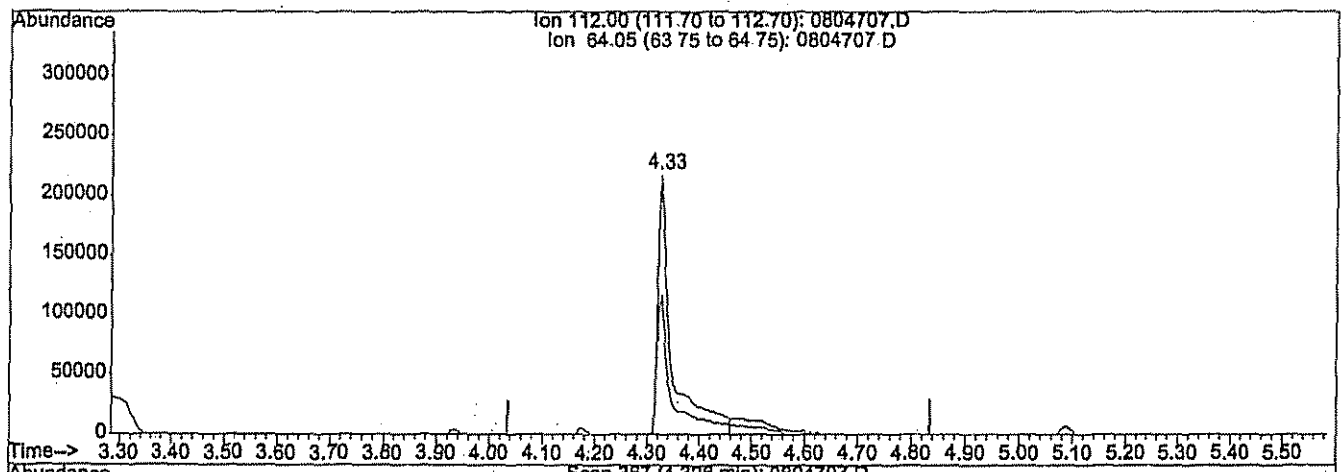
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	54.73
0.00	0.00	0.00
0.00	0.00	0.00

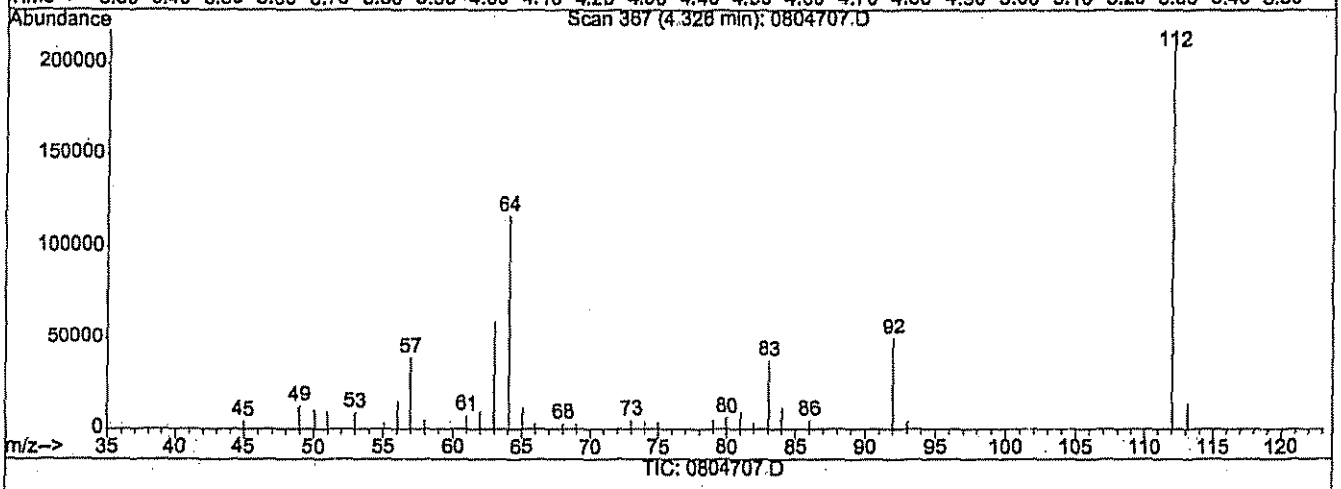
0804707.D 8270.M Thu Aug 04 14:20:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804707.D Vial: 7
Acq On : 4 Aug 2005 12:34 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:20 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:19:25 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

4.33min 11.57ug/mL

response 420918

Ion	Exp%	Act%
112.00	100	100
64.05	48.80	64.03#
0.00	0.00	0.00
0.00	0.00	0.00

0804707.D 8270.M Thu Aug 04 14:20:19 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:21:25 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.05	152	171274	4.00	ug/mL	0.00
18) Naphthalene-D8	7.95	136	700273	4.00	ug/mL	0.00
33) Acenaphthene-d10	10.70	164	343464	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.06	188	558707	4.00	ug/mL	0.00
85) Chrysene-D12	17.29	240	351636	4.00	ug/mL	0.01
93) Perylene-D12	19.38	264	269604	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.34	112	1017323	26.81	ug/mL	0.00
Spiked Amount 10.000			Recovery = 268.10%			
17) Phenol-d6 (surr)	5.66	99	1428206	25.14	ug/mL	0.01
Spiked Amount 10.000			Recovery = 251.40%			
32) Nitrobenzene-d5 (surr)	6.89	128	558612	25.38	ug/mL	0.00
Spiked Amount 10.000			Recovery = 253.80%			
53) 2-Fluorobiphenyl (surr)	9.69	172	2123772	22.48	ug/mL	0.00
Spiked Amount 10.000			Recovery = 224.80%			
54) 2,4,6-Tribromophenol (surr	11.98	330	280120	26.43	ug/mL	0.00
Spiked Amount 10.000			Recovery = 264.30%			
92) 4-Terphenyl-d14 (surr)	15.68	244	1813020	22.08	ug/mL	0.01
Spiked Amount 10.000			Recovery = 220.80%			
Target Compounds						Qvalue
2) Pyridine	2.82	79	747636	25.22	ug/mL	100
3) N-Nitrosodimethylamine	2.87	74	545072	23.66	ug/mL	95
4) Phenol	5.68	94	1302098m	29.33	ug/mL	
5) Bis(2-chloroethyl)ether	5.75	93	984059m	22.84	ug/mL	
6) 2-Chlorophenol	5.78	128	1292744	24.59	ug/mL	100
7) Benzyl Alcohol	6.33	108	846354	26.81	ug/mL	97
8) 1,3-Dichlorobenzene	5.97	146	1322524	23.71	ug/mL	97
9) 1,4-Dichlorobenzene	6.08	146	1372880	23.47	ug/mL	98
10) 1,2-Dichlorobenzene	6.29	146	1244134	23.31	ug/mL	99
11) 2-Methylphenol	6.52	107	926862	23.38	ug/mL	94
12) 3-, 4-Methylphenol	6.77	107	1274930	23.74	ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.51	45	1766767	21.49	ug/mL	96
14) N-Nitrosodi-n-propylamine	6.73	70	663555	24.06	ug/mL	98
15) Hexachloroethane	6.77	117	423891	21.79	ug/mL	99
19) Nitrobenzene	6.93	77	1159085	23.55	ug/mL	98
20) Isophorone	7.31	82	1771560	23.11	ug/mL	99
21) 2-Nitrophenol	7.40	139	755116	25.63	ug/mL	98
22) 2,4-Dimethylphenol	7.55	122	995522	24.40	ug/mL	99
23) Benzoic Acid	7.93	122	691859	34.26	ug/mL#	44
24) Bis(2-chloroethoxy)methane	7.67	93	1296498	23.40	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0804708.D 8270.M Thu Aug 04 14:35:42 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:21:25 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	7.79	162	1004284	26.02	ug/mL	97
26)	1,2,4-Trichlorobenzene	7.88	180	1004091	23.46	ug/mL	99
27)	Naphthalene	7.98	128	3196250	22.64	ug/mL	99
28)	4-Chloroaniline	7.98	127	413859	22.92	ug/mL	97
29)	Hexachlorobutadiene	8.21	225	484339	22.91	ug/mL	98
30)	4-Chloro-3-methylphenol	8.96	107	999945	24.96	ug/mL	98
31)	2-Methylnaphthalene	9.07	142	2409511	22.24	ug/mL	99
34)	Hexachlorocyclopentadiene	9.33	237	197923	42.92	ug/mL	98
35)	2,4,6-Trichlorophenol	9.57	196	670129	24.01	ug/mL	96
36)	2,4,5-Trichlorophenol	9.62	196	754247m	25.45	ug/mL	
37)	2-Chloronaphthalene	9.83	162	1919729	23.03	ug/mL	100
38)	2-Nitroaniline	10.07	65	583521	27.68	ug/mL	96
39)	3-Nitroaniline	11.05	138	50258	24.27	ug/mL#	100
40)	1-Methylnaphthalene	9.22	142	2176766	22.18	ug/mL	97
41)	Dimethylphthalate	10.39	163	2224553	23.47	ug/mL	100
42)	Acenaphthylene	10.47	152	2447105	20.27	ug/mL	100
43)	2,6-Dinitrotoluene	10.47	165	469934	23.46	ug/mL	95
44)	Acenaphthene	10.76	153	1915926	22.53	ug/mL	99
45)	2,4-Dinitrophenol	10.92	184	361118	28.13	ug/mL#	89
46)	4-Nitrophenol	11.12	109	219052	40.47	ug/mL	97
47)	Dibenzofuran	11.05	168	2864862	22.88	ug/mL	99
48)	2,4-Dinitrotoluene	11.11	165	659219	24.59	ug/mL	97
49)	Fluorene	11.59	166	2104165	22.91	ug/mL	99
50)	Diethylphthalate	11.53	149	2136219	22.88	ug/mL	100
51)	4-Chlorophenyl phenyl ethe	11.63	204	1007601	23.47	ug/mL	96
52)	4-Nitroaniline	11.79	138	210486m	36.13	ug/mL	
56)	4,6-Dinitro-2-methylphenol	11.75	198	460284	29.20	ug/mL	91
57)	Diphenylamine	11.84	169	620648	17.89	ug/mL	98
58)	4-bromophenyl phenyl ether	12.40	248	521390	21.69	ug/mL	99
59)	Hexachlorobenzene	12.47	284	566148	22.50	ug/mL	95
60)	Pentachlorophenol	12.81	266	399796	36.97	ug/mL	98
61)	Phenanthrene	13.10	178	3185233	22.41	ug/mL	99
62)	Carbazole	13.50	167	700780	23.77	ug/mL#	97
63)	Anthracene	13.19	178	3025030	22.71	ug/mL	100
64)	Azobenzene	11.88	77	2112519	21.17	ug/mL	98
65)	Di-n-Butylphthalate	14.15	149	3671393	21.85	ug/mL	100
66)	Fluoranthene	15.00	202	3108765	23.47	ug/mL	96
67)	alpha-BHC	12.41	183	358321	22.03	ug/mL	99
68)	beta-BHC	12.80	181	335741	23.88	ug/mL	96
69)	gamma-BHC	12.88	183	334929	22.13	ug/mL	99
70)	delta-BHC	13.28	183	313405	23.15	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:21:25 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	400779	21.28 ug/mL	96
72)	Aldrin	14.34	66	362251	20.27 ug/mL	95
73)	Heptachlor Epoxide	14.85	353	179568	23.97 ug/mL	100
74)	Endosulfan I	15.35	195	81998	19.65 ug/mL	92
75)	4,4'-DDE	15.60	246	621334	22.45 ug/mL	100
76)	Dieldrin	15.69	79	393903	17.74 ug/mL	95
77)	Endrin	15.69	263	82356	20.83 ug/mL	87
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.14	235	1128585	22.64 ug/mL	100
80)	Endosulfan Sulfate	16.57	272	144578	22.54 ug/mL	97
81)	4,4'-DDT	16.60	235	933388	24.81 ug/mL	94
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.17	317	129135	26.06 ug/mL	98
84)	Methoxychlor	17.28	227	1697403	21.64 ug/mL	84
86)	Pyrene	15.35	202	2628606	20.84 ug/mL	97
87)	Butylbenzylphthalate	16.52	149	1647538	23.13 ug/mL	97
88)	Benzo[a]anthracene	17.27	228	2480028	23.52 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.30	252	350342	28.94 ug/mL	97
90)	Chrysene	17.33	228	2338752	24.26 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	17.48	149	2208201	22.16 ug/mL	100
94)	Di-n-octylphthalate	18.47	149	3647957	22.32 ug/mL	100
95)	Benzo[b]fluoranthene	18.88	252	2189261	26.11 ug/mL	100
96)	Benzo[k]fluoranthene	18.92	252	2030596	22.86 ug/mL	98
97)	Benzo[a]pyrene	19.32	252	1750499	25.36 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	21.03	276	1371452	26.03 ug/mL	99
99)	Dibenzo[a,h]anthracene	21.07	278	1079139	27.54 ug/mL	99
100)	Benzo[g,h,i]perylene	21.51	276	1140926	24.52 ug/mL	97

(#) = qualifier out of range (m) = manual integration
0804708.D 8270.M Thu Aug 04 14:35:43 2005 ENV Page 3

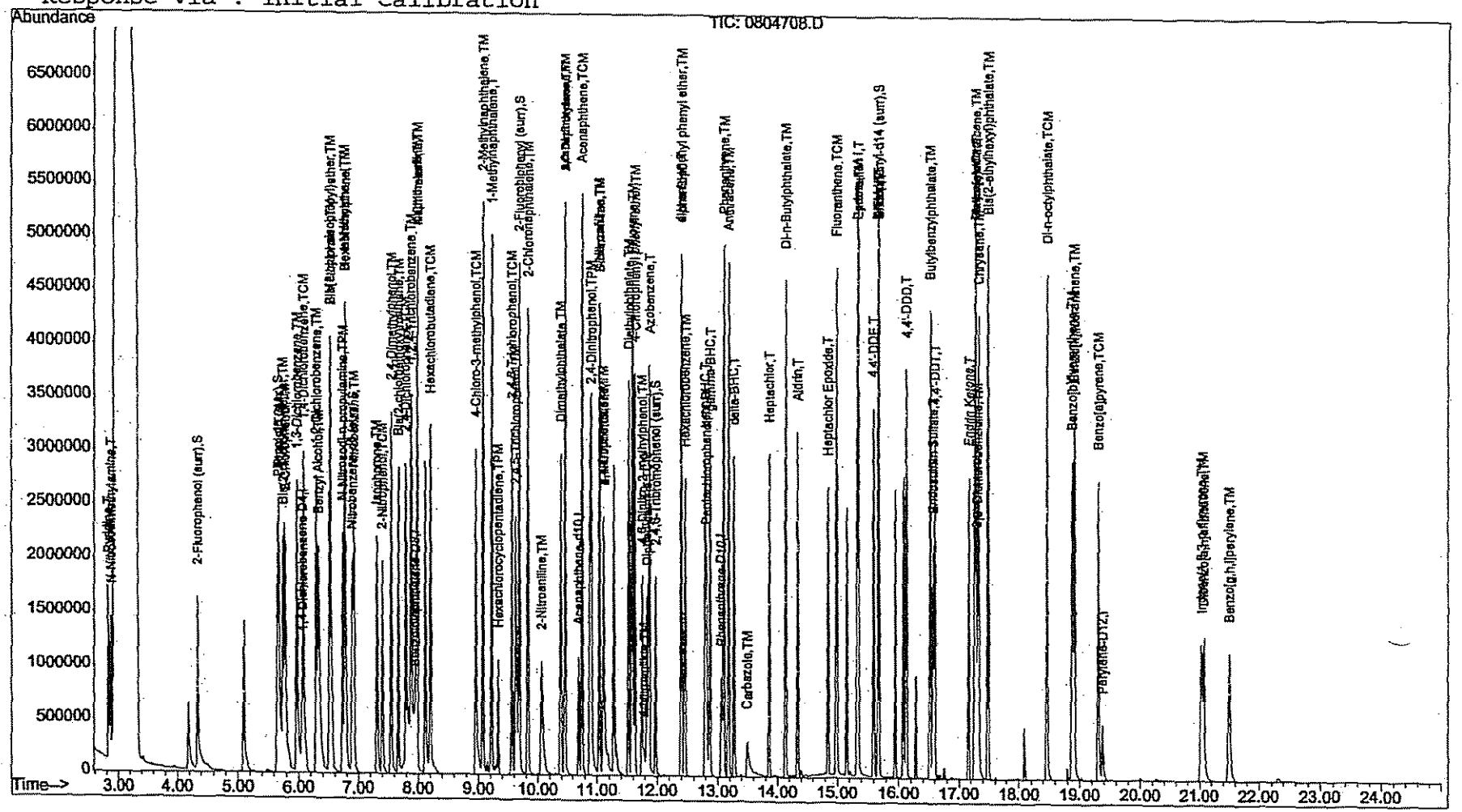
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D
Acq On : 4 Aug 2005 1:08 pm
Sample : SVCAL24
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 14:26 2005

Vial: 8
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0804708.D 8270.M Thu Aug 04 14:35:45 2005 ENV

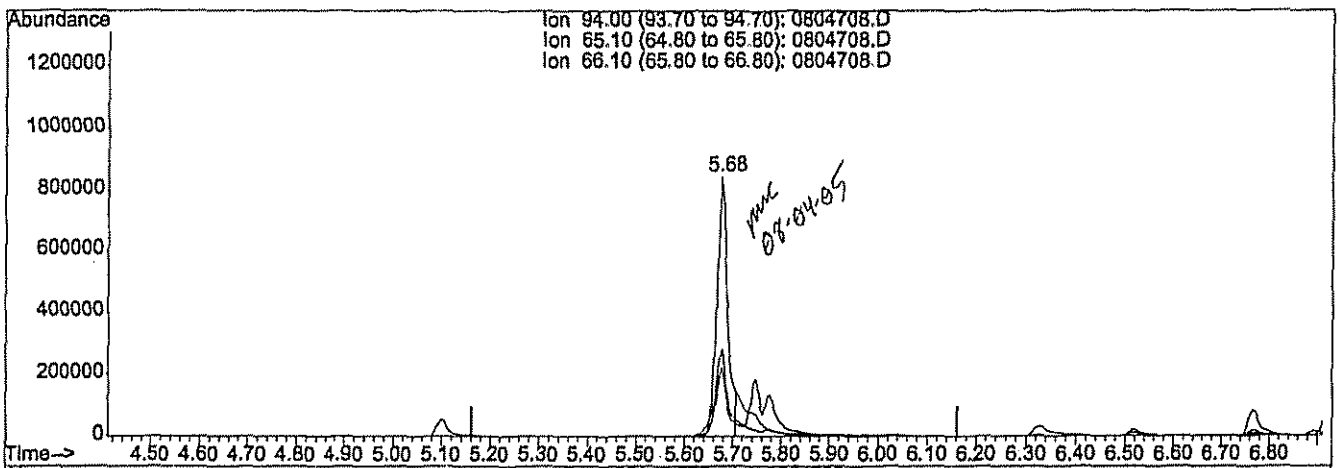
PARADIGM ANALYTICAL LABORATORIES, INC.

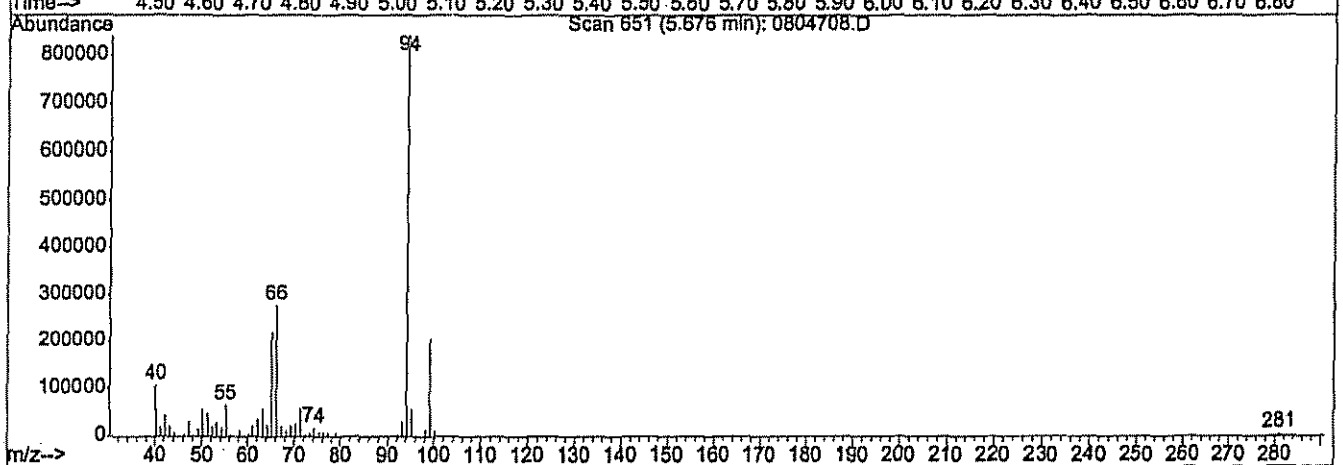
N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Multiple Level Calibration





TIC: 0804708.D

(4) Phenol (TCM)

5.68min 29.33ug/mL m

response 1302098

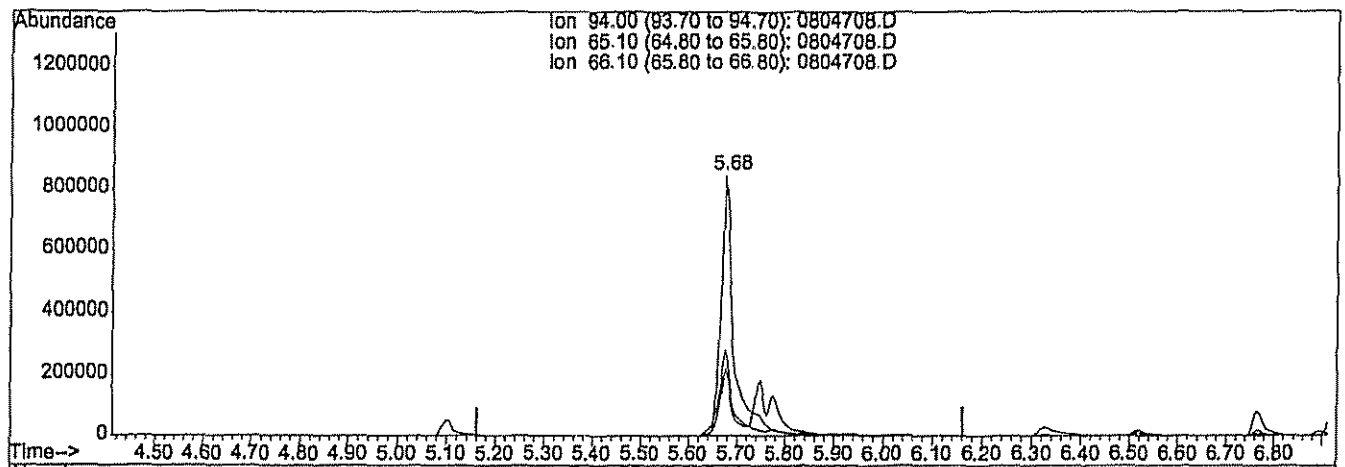
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.22
66.10	33.90	33.11
0.00	0.00	0.00

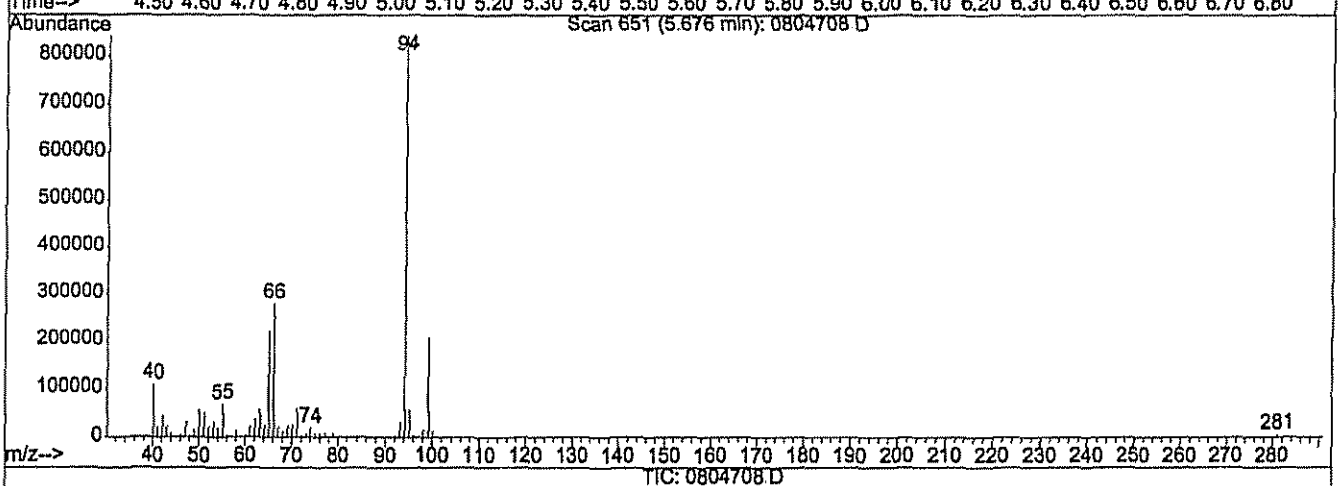
0804708.D 8270.M Thu Aug 04 14:25:24 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:21 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Multiple Level Calibration





(4) Phenol (TCM)

5.68min 36.85ug/mL

response 1635985

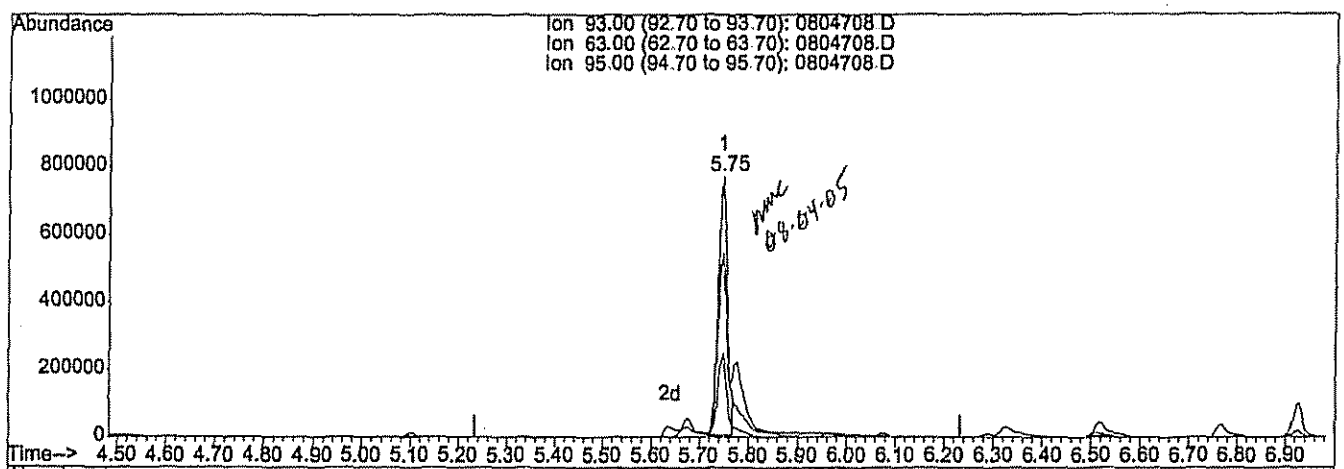
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.22
66.10	33.90	32.68
0.00	0.00	0.00

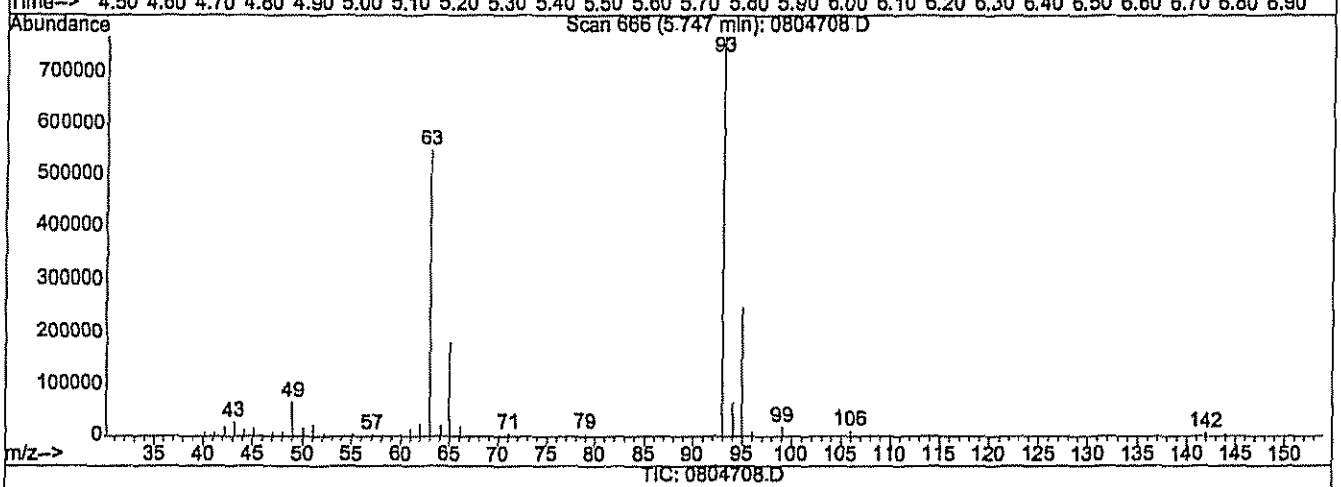
0804708.D 8270.M Thu Aug 04 14:25:20 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.75min 22.84ug/mL m

response 984059

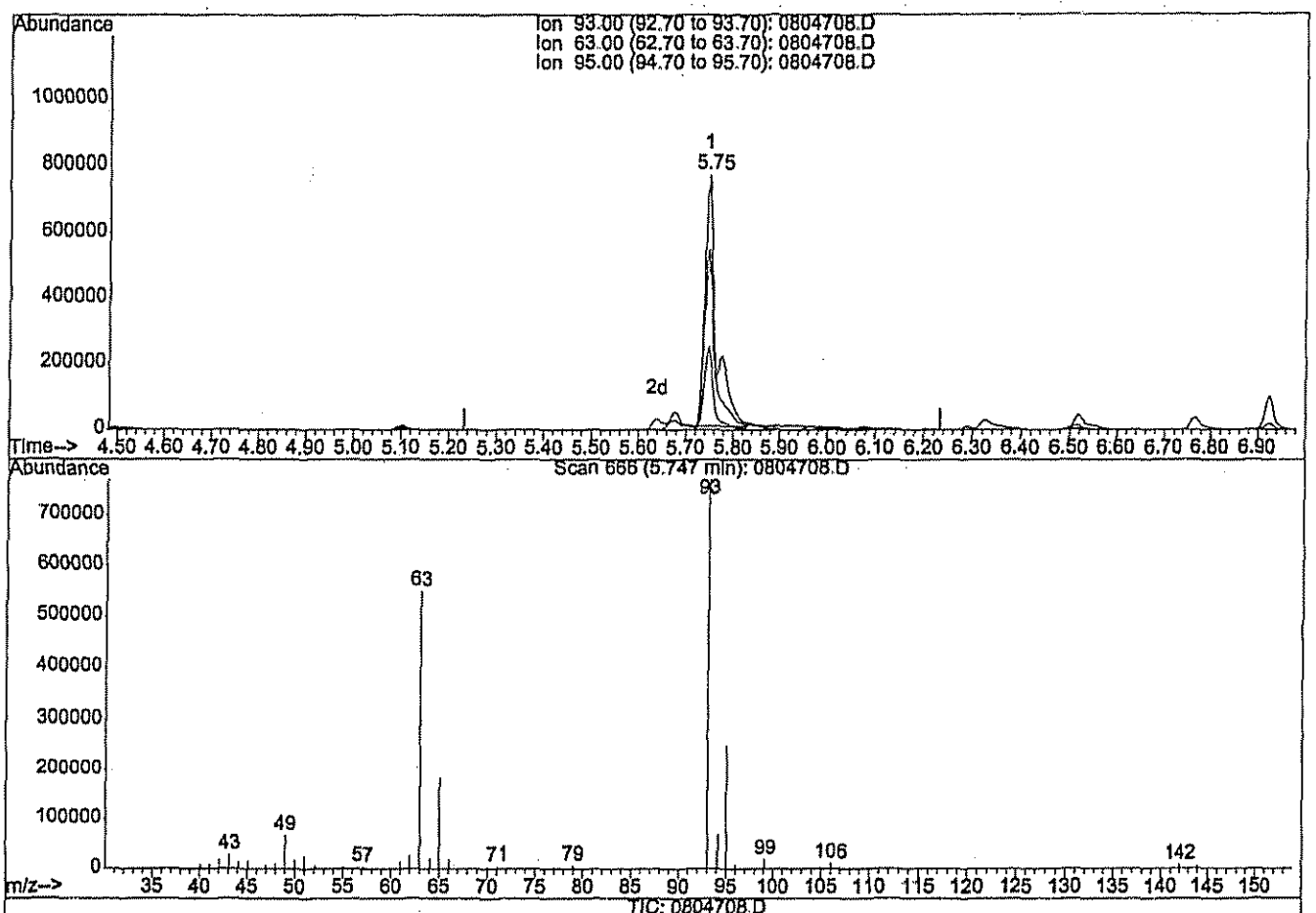
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.24
95.00	32.20	32.47
0.00	0.00	0.00

0804708.D 8270.M Thu Aug 04 14:25:45 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804708.D Vial: 8
Acq On : 4 Aug 2005 1:08 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:21:19 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.75min 25.50ug/mL

response 1098477

Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.09
95.00	32.20	32.95
0.00	0.00	0.00

0804708.D 8270.M Thu Aug 04 14:25:28 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:27:46 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 08-04-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.06	152	194505	4.00	ug/mL	0.01
18) Naphthalene-D8	7.96	136	785015	4.00	ug/mL	0.01
33) Acenaphthene-d10	10.71	164	407092	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.08	188	659630	4.00	ug/mL	0.02
85) Chrysene-D12	17.31	240	373968	4.00	ug/mL	0.03
93) Perylene-D12	19.39	264	282267	4.00	ug/mL	0.01
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.36	112	2246521	51.78	ug/mL	0.02
Spiked Amount 10.000			Recovery = 517.80%			
17) Phenol-d6 (surr)	5.69	99	2920690	45.33	ug/mL	0.05
Spiked Amount 10.000			Recovery = 453.30%			
32) Nitrobenzene-d5 (surr)	6.92	128	1200652	48.66	ug/mL	0.03
Spiked Amount 10.000			Recovery = 486.60%			
53) 2-Fluorobiphenyl (surr)	9.70	172	4220542	37.68	ug/mL	0.02
Spiked Amount 10.000			Recovery = 376.80%			
54) 2,4,6-Tribromophenol (surr	12.00	330	596024	47.43	ug/mL	0.03
Spiked Amount 10.000			Recovery = 474.30%			
92) 4-Terphenyl-d14 (surr)	15.70	244	3300581	37.96	ug/mL	0.03
Spiked Amount 10.000			Recovery = 379.60%			

Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.	d	
3) N-Nitrosodimethylamine	0.00	74	0	N.D.	d	
4) Phenol	5.71	94	3218438	61.87	ug/mL	98
5) Bis(2-chloroethyl)ether	5.77	93	2272149	47.37	ug/mL	98
6) 2-Chlorophenol	5.79	128	2643659	44.24	ug/mL	98
7) Benzyl Alcohol	6.36	108	1868733	52.31	ug/mL	96
8) 1,3-Dichlorobenzene	5.98	146	2724159	42.96	ug/mL	98
9) 1,4-Dichlorobenzene	6.09	146	2763677	41.58	ug/mL	97
10) 1,2-Dichlorobenzene	6.30	146	2532137	41.82	ug/mL	100
11) 2-Methylphenol	6.54	107	1813505	40.21	ug/mL#	90
12) 3-, 4-Methylphenol	6.80	107	2555218	41.74	ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.52	45	3284677	35.36	ug/mL#	88
14) N-Nitrosodi-n-propylamine	6.76	70	1241431m	39.77	ug/mL	
15) Hexachloroethane	6.77	117	768783	34.74	ug/mL	92
19) Nitrobenzene	6.95	77	2309182	41.96	ug/mL	99
20) Isophorone	7.34	82	3824333	44.65	ug/mL	99
21) 2-Nitrophenol	7.42	139	1590079	48.07	ug/mL	97
22) 2,4-Dimethylphenol	7.58	122	2104320	46.08	ug/mL	98
23) Benzoic Acid	8.04	122	1626874m	67.73	ug/mL	
24) Bis(2-chloroethoxy)methane	7.69	93	2615611	42.15	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0804709.D 8270.M Thu Aug 04 14:35:48 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:27:46 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	7.82	162	2010699	46.38 ug/mL	97
26) 1,2,4-Trichlorobenzene	7.89	180	2035722	42.37 ug/mL	99
27) Naphthalene	8.00	128	5918867	37.38 ug/mL	99
28) 4-Chloroaniline	8.00	127	757548	37.67 ug/mL	100
29) Hexachlorobutadiene	8.22	225	939848	39.65 ug/mL	99
30) 4-Chloro-3-methylphenol	8.98	107	1999762	44.57 ug/mL	95
31) 2-Methylnaphthalene	9.09	142	4563350	37.49 ug/mL	100
34) Hexachlorocyclopentadiene	9.34	237	519387	85.41 ug/mL	98
35) 2,4,6-Trichlorophenol	9.58	196	1392032	42.05 ug/mL	98
36) 2,4,5-Trichlorophenol	9.64	196	1509792	42.36 ug/mL	96
37) 2-Chloronaphthalene	9.85	162	3875605	39.18 ug/mL	98
38) 2-Nitroaniline	10.08	65	1337093	53.60 ug/mL	93
39) 3-Nitroaniline	11.06	138	100931	41.05 ug/mL#	100
40) 1-Methylnaphthalene	9.24	142	4200984	36.02 ug/mL	98
41) Dimethylphthalate	10.42	163	4823011	42.94 ug/mL	100
42) Acenaphthylene	10.48	152	3842772	27.00 ug/mL	100
43) 2,6-Dinitrotoluene	10.50	165	998118m	41.97 ug/mL	
44) Acenaphthene	10.78	153	3818257	37.87 ug/mL	100
45) 2,4-Dinitrophenol	10.95	184	818715	53.02 ug/mL#	87
46) 4-Nitrophenol	11.15	109	508588	71.14 ug/mL	98
47) Dibenzofuran	11.07	168	5752155	38.73 ug/mL	98
48) 2,4-Dinitrotoluene	11.14	165	1407039	44.25 ug/mL	99
49) Fluorene	11.61	166	4177295	38.39 ug/mL	99
50) Diethylphthalate	11.56	149	4355073	39.38 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	11.64	204	2012824	39.47 ug/mL	97
52) 4-Nitroaniline	11.83	138	349184m	46.64 ug/mL	
56) 4,6-Dinitro-2-methylphenol	11.79	198	1053682	56.27 ug/mL	90
57) Diphenylamine	11.86	169	912779	22.75 ug/mL	98
58) 4-bromophenyl phenyl ether	12.42	248	1008057	35.44 ug/mL	96
59) Hexachlorobenzene	12.49	284	1183663	39.89 ug/mL	94
60) Pentachlorophenol	12.84	266	839622	60.33 ug/mL	97
61) Phenanthrene	13.13	178	6490313	38.66 ug/mL	100
62) Carbazole	13.51	167	1833454	51.06 ug/mL#	93
63) Anthracene	13.21	178	6151054	39.12 ug/mL	99
64) Azobenzene	11.90	77	4198014	35.90 ug/mL	97
65) Di-n-Butylphthalate	14.16	149	7239413	36.58 ug/mL	99
66) Fluoranthene	15.02	202	6412479	40.97 ug/mL#	93
67) alpha-BHC	12.43	183	699098m	36.41 ug/mL	
68) beta-BHC	12.82	181	603599	36.31 ug/mL	88
69) gamma-BHC	12.90	183	669468	37.44 ug/mL	98
70) delta-BHC	13.29	183	631514	39.48 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 04 14:27:46 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.87	100	700228	31.43 ug/mL	86
72)	Aldrin	14.36	66	628593	29.86 ug/mL#	83
73)	Heptachlor Epoxide	14.87	353	366146	41.32 ug/mL	100
74)	Endosulfan I	15.38	195	160436	32.44 ug/mL	92
75)	4,4'-DDE	15.62	246	1213291	37.14 ug/mL	100
76)	Dieldrin	15.70	79	592386	22.59 ug/mL#	86
77)	Endrin	15.70	263	146566	31.37 ug/mL#	72
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.15	235	2368576	40.16 ug/mL#	99
80)	Endosulfan Sulfate	16.58	272	217644	28.50 ug/mL	94
81)	4,4'-DDT	16.62	235	1752320	38.88 ug/mL	96
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.18	317	260742	43.89 ug/mL	100
84)	Methoxychlor	17.29	227	2821826	30.06 ug/mL#	65
86)	Pyrene	15.39	202	5139355m	38.49 ug/mL	
87)	Butylbenzylphthalate	16.54	149	3175103	42.02 ug/mL	92
88)	Benzo[a]anthracene	17.30	228	4742525	42.23 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.33	252	694376	53.23 ug/mL	97
90)	Chrysene	17.36	228	4654090	45.30 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.50	149	4137487	39.15 ug/mL#	97
94)	Di-n-octylphthalate	18.49	149	6816729	40.34 ug/mL	100
95)	Benzo[b]fluoranthene	18.91	252	4939246	56.51 ug/mL	99
96)	Benzo[k]fluoranthene	18.94	252	3368414m	36.25 ug/mL	
97)	Benzo[a]pyrene	19.33	252	3424252	47.36 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.05	276	2869068	51.75 ug/mL	99
99)	Dibenzo[a,h]anthracene	21.10	278	2281112	55.40 ug/mL	98
100)	Benzo[g,h,i]perylene	21.54	276	2365561	48.29 ug/mL	97

(#) = qualifier out of range (m) = manual integration

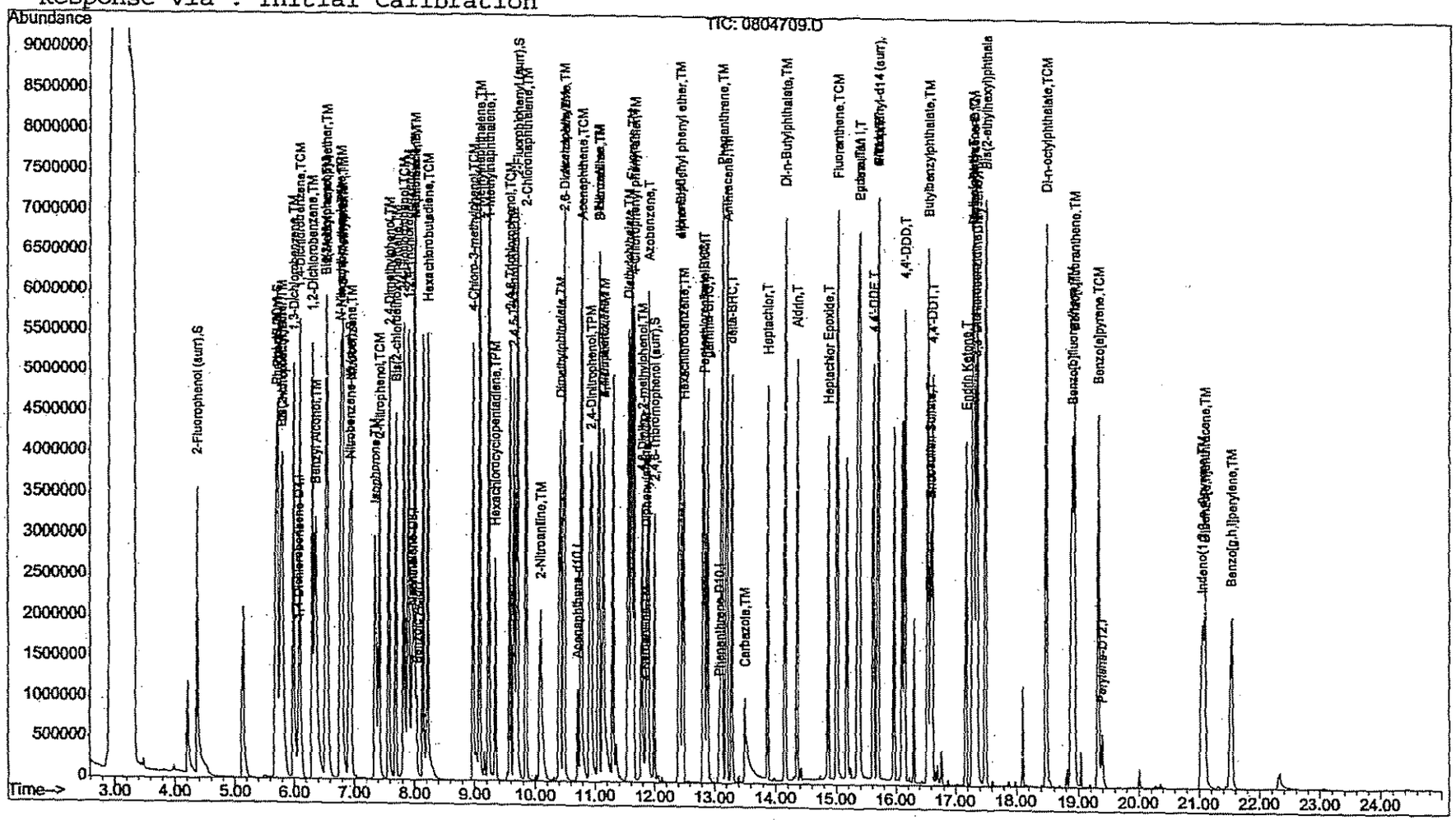
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D
Acq On : 4 Aug 2005 1:42 pm
Sample : SVCAL48
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 14:29 2005

Vial: 9
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0804709.D 8270.M Thu Aug 04 14:35:52 2005 ENV

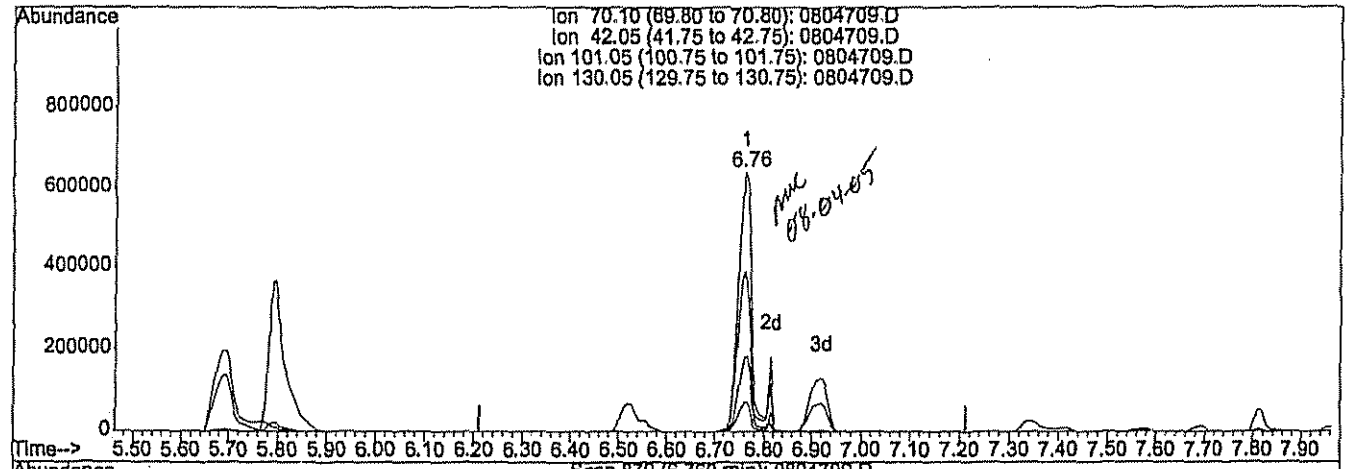
PARADIGM ANALYTICAL LABORATORIES, INC

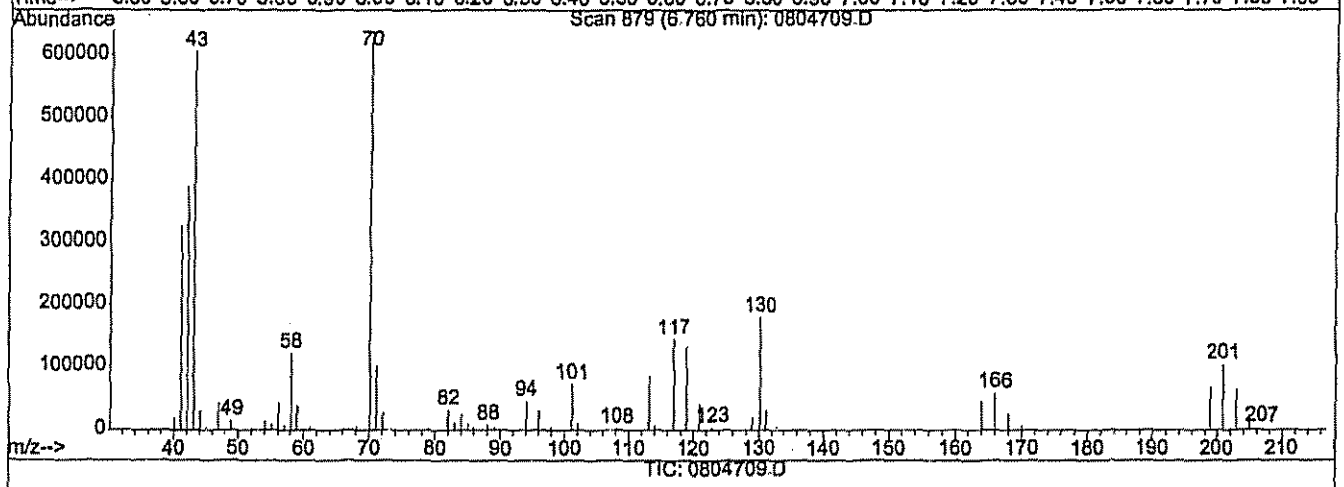
N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:28 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Multiple Level Calibration





(14) N-Nitrosodi-n-propylamine (TPM)

6.76min 39.77ug/mL m

response 1241431

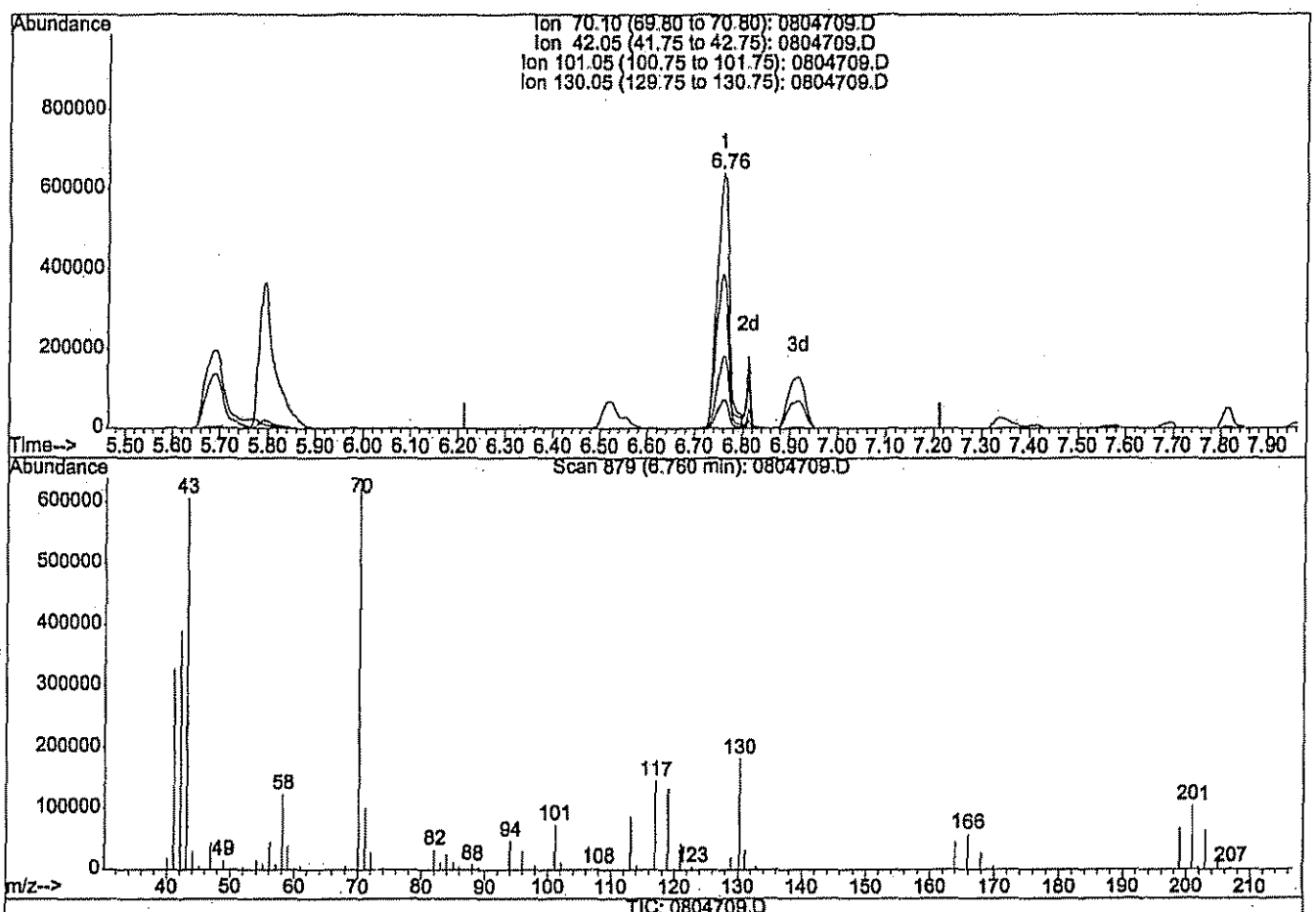
Ion	Exp%	Act%
70.10	100	100
42.05	65.10	60.92
101.05	10.60	11.36
130.05	26.20	28.33

0804709.D 8270.M Thu Aug 04 14:28:39 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:28 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Multiple Level Calibration



(14) N-Nitrosodi-n-propylamine (TPM)

6.76min 36.36ug/mL

response 1135002

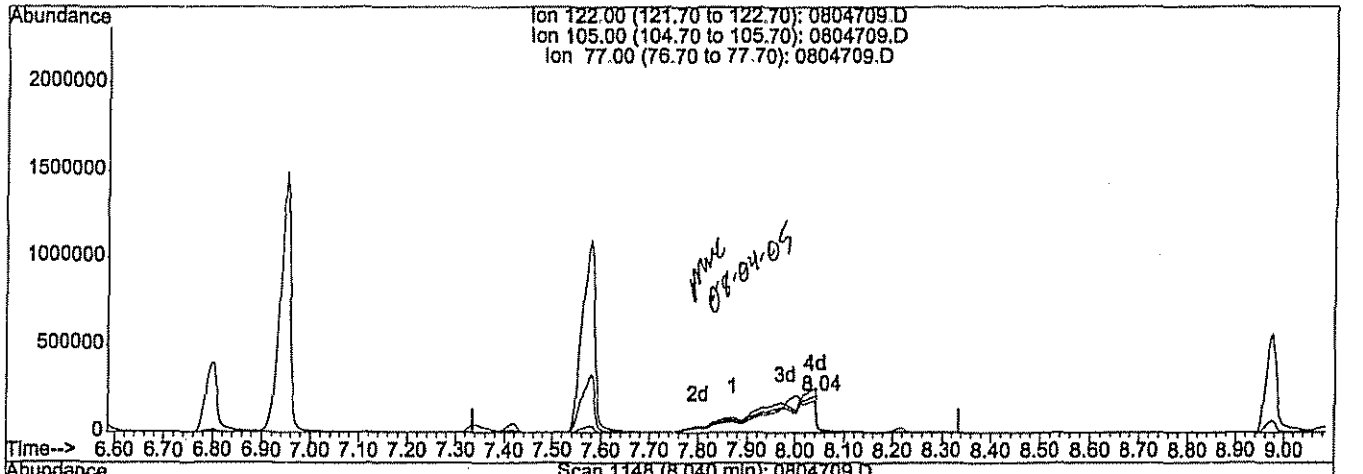
Ion	Exp%	Act%
70.10	100	100
42.05	65.10	60.92
101.05	10.60	11.36
130.05	26.20	28.33

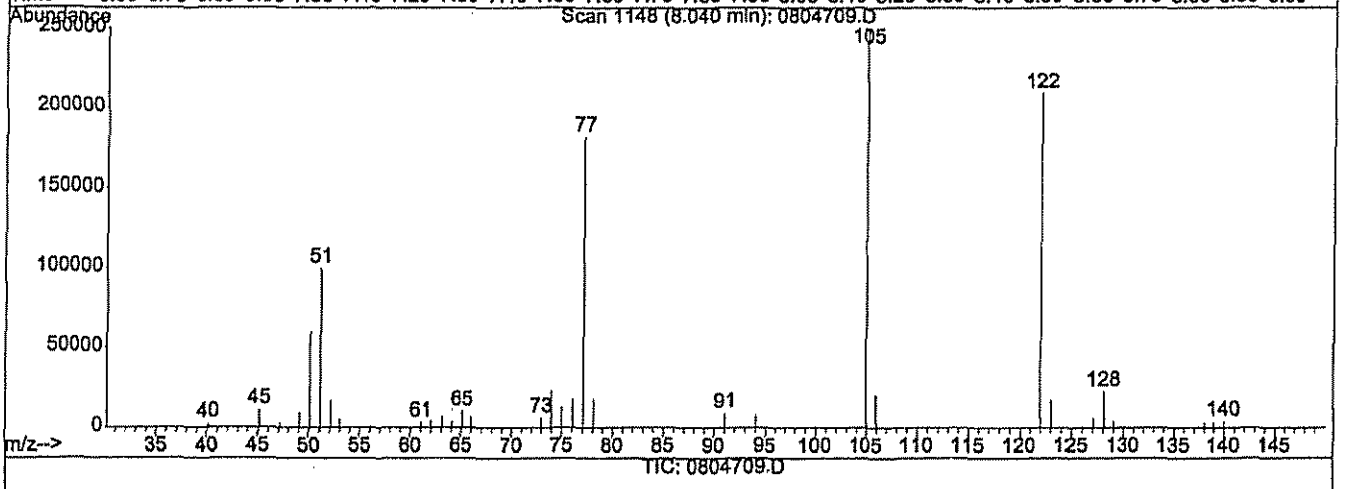
0804709.D 8270.M Thu Aug 04 14:28:35 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:28 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (T)

8.04min 67.73ug/mL m

response 1626874

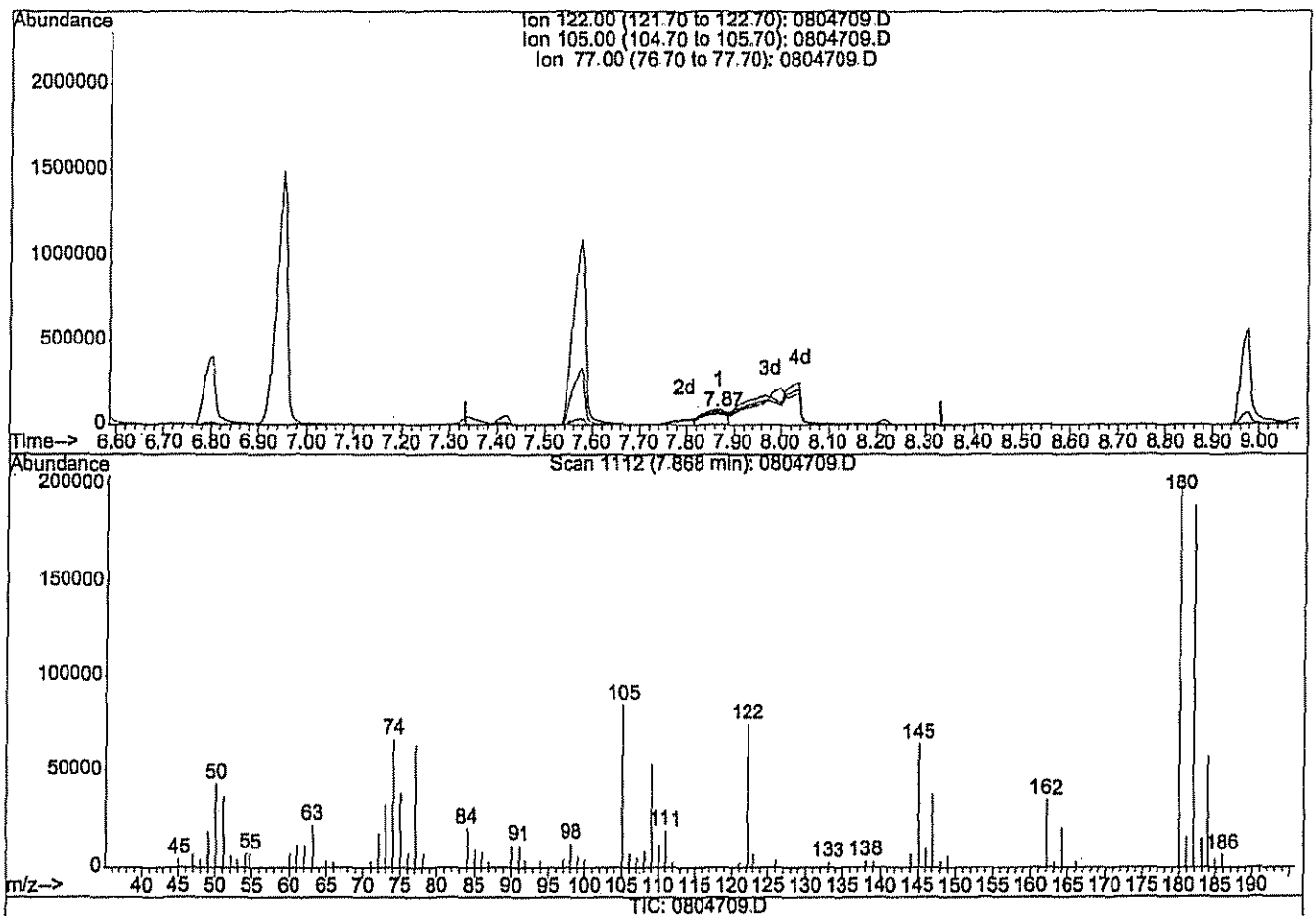
Ion	Exp%	Act%
122.00	100	100
105.00	120.20	18.02#
77.00	88.40	6.55#
0.00	0.00	0.00

0804709.D 8270.M Thu Aug 04 14:28:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7080405\0804709.D Vial: 9
Acq On : 4 Aug 2005 1:42 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 4 14:28 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:27:00 2005
Response via : Multiple Level Calibration



(23) Benzoic Acid (T)

7.87min 10.64ug/mL

response 255501

Ion	Exp%	Act%
122.00	100	100
105.00	120.20	114.72
77.00	88.40	41.68#
0.00	0.00	0.00

0804709.D 8270.M Thu Aug 04 14:28:46 2005 ENV

625-BN CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	126	-0.10
2	TM	Pyridine	0.901	1.247	-38.4#	166	-0.04
3	TM	N-Nitrosodimethylamine	0.655	0.881	-34.5#	166	-0.02
4	TMC	Phenol	1.779	1.925	-8.2	132	-0.07
5	TM	Bis(2-chloroethyl)ether	1.409	1.455	-3.3	133	-0.09
6	TM	2-Chlorophenol	1.358	1.406	-3.5	126	-0.09
7	TM	Benzyl Alcohol	0.953	0.961	-0.8	124	-0.09
8	TM	1,3-Dichlorobenzene	1.321	1.356	-2.6	127	-0.10
9	TMC	1,4-Dichlorobenzene	1.350	1.373	-1.7	125	-0.10
10	TM	1,2-Dichlorobenzene	1.227	1.242	-1.2	124	-0.10
11	TM	2-Methylphenol	1.115	1.134	-1.7	125	-0.08
12	TM	3-, 4-Methylphenol	1.622	1.634	-0.7	126	-0.09
13	TM	Bis(2-chloroisopropyl)ether	1.614	1.754	-8.7	134	-0.11
14	TMP	N-Nitrosodi-n-propylamine	0.847	0.932	-10.0	134	-0.10
15	TM	Hexachloroethane	0.526	0.538	-2.3	128	-0.11
16	S	2-Fluorophenol (surr)	1.011	1.029	-1.8	128	-0.07
17	S	Phenol-d6 (surr)	1.599	1.702	-6.4	132	-0.08
18	I	Naphthalene-D8	1.000	1.000	0.0	119	-0.11
19	TM	Nitrobenzene	0.377	0.437	-15.9	132	-0.10
20	TM	Isophorone	0.568	0.569	-0.2	115	-0.10
21	TMC	2-Nitrophenol	0.185	0.180	2.7	114	-0.10
22	TM	2,4-Dimethylphenol	0.262	0.259	1.1	117	-0.09
23	TM	Benzoic Acid	0.152	0.120	21.1#	97	0.45
24	TM	Bis(2-chloroethoxy)methane	0.379	0.407	-7.4	124	-0.10
25	TMC	2,4-Dichlorophenol	0.274	0.292	-6.6	121	-0.09
26	TM	1,2,4-Trichlorobenzene	0.286	0.291	-1.7	118	-0.11
27	TM	Naphthalene	0.874	0.928	-6.2	122	-0.11
28	TM	4-Chloroaniline	0.142	0.158	-11.3	0#	-0.10
29	TMC	Hexachlorobutadiene	0.176	0.182	-3.4	118	-0.11
30	TMC	4-Chloro-3-methylphenol	0.320	0.366	-14.4	133	-0.08
31	TM	2-Methylnaphthalene	0.636	0.676	-6.3	123	-0.11
32	S	Nitrobenzene-d5 (surr)	0.141	0.151	-7.1	121	-0.10
33	I	Acenaphthene-d10	1.000	1.000	0.0	123	-0.11
34	TMP	Hexachlorocyclopentadiene	0.111	0.088	20.7#	98	4.46#
35	TMC	2,4,6-Trichlorophenol	0.360	0.384	-6.7	126	-0.10
36	TM	2,4,5-Trichlorophenol	0.365	0.393	-7.7	129	-0.09
37	TM	2-Chloronaphthalene	0.989	1.049	-6.1	128	-0.11
38	TM	2-Nitroaniline	0.337	0.404	-19.9	142	-0.09
39	TM	3-Nitroaniline	0.063	0.190	-201.6#	0#	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	TM	1-Methylnaphthalene	0.984	1.041	-5.8	126	-0.11
41	TM	Dimethylphthalate	1.144	1.243	-8.7	129	-0.10
42	TM	Acenaphthylene	1.287	1.400	-8.8	128	-0.11
43	TM	2,6-Dinitrotoluene	0.246	0.265	-7.7	129	-0.10
44	TMC	Acenaphthene	0.884	0.920	-4.1	124	-0.11
45	TMP	2,4-Dinitrophenol	0.115	0.113	1.7	123	-0.09
46	TMP	4-Nitrophenol	0.146	0.118	19.2	99	-0.04
47	TM	Dibenzofuran	1.425	1.542	-8.2	130	-0.11
48	TM	2,4-Dinitrotoluene	0.304	0.337	-10.9	137	-0.09
49	TM	Fluorene	1.056	1.143	-8.2	128	-0.11
50	TM	Diethylphthalate	1.046	1.098	-5.0	124	-0.11
51	TM	4-Chlorophenyl phenyl ether	0.553	0.575	-4.0	123	-0.11
52	TM	4-Nitroaniline	0.117	0.164	-40.2#	154	-0.05
53	S	2-Fluorobiphenyl (surr)	1.128	1.187	-5.2	125	-0.11
54	S	2,4,6-Tribromophenol (surr)	0.118	0.109	7.6	117	-0.11
55	I	Phenanthrene-D10	1.000	1.000	0.0	139	-0.11
56	TM	4,6-Dinitro-2-methylphenol	0.122	0.116	4.9	132	-0.09
57	TMC	Diphenylamine	0.408	0.450	-10.3	136	-0.11
58	TM	4-bromophenyl phenyl ether	0.219	0.211	3.7	129	-0.11
59	TM	Hexachlorobenzene	0.210	0.197	6.2	121	-0.11
60	TMC	Pentachlorophenol	0.139	0.129	7.2	124	-0.09
61	TM	Phenanthrene	0.995	1.035	-4.0	139	-0.11
62	TM	Carbazole	0.404	0.723	-79.0#	235#	-0.10
63	TM	Anthracene	0.921	0.964	-4.7	138	-0.11
64		Azobenzene	0.865	0.866	-0.1	132	-0.11
65	TM	Di-n-Butylphthalate	1.211	1.189	1.8	132	-0.12
66	TMC	Fluoranthene	1.007	1.094	-8.6	144	-0.11
67	T	alpha-BHC	0.156	0.150	3.8	0#	-0.11
68	T	beta-BHC	0.124	0.129	-4.0	0#	-0.09
69	T	gamma-BHC	0.128	0.131	-2.3	0#	-0.11
70	T	delta-BHC	0.116	0.117	-0.9	0#	-0.09
71	T	Heptachlor	0.150	0.151	-0.7	0#	-0.12
72	T	Aldrin	0.160	0.171	-6.9	0#	-0.13
73	T	Heptachlor Epoxide	0.055	0.051	7.3	0#	-0.12
74	T	Endosulfan I	0.040	0.040#	0.0	0#	-0.12
75	T	4,4'-DDE	0.234	0.238	-1.7	0#	-0.12
76	T	Dieldrin	0.200	0.216	-8.0	0#	-0.13
77	T	Endrin	0.034	0.038#	-11.8	0#	-0.12
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.412	0.421	-2.2	0#	-0.11

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.051	0.050	2.0	0#	-0.12
81	T	4,4'-DDT	0.318	0.290	8.8	0#	-0.12
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.042	0.036#	14.3	0#	-0.12
84	T	Methoxychlor	0.685	0.634	7.4	0#	-0.12
85	I	Chrysene-D12	1.000	1.000	0.0	120	-0.11
86	TM	Pyrene	1.433	1.720	-20.0#	144	-0.11
87	TM	Butylbenzylphthalate	0.700	0.783	-11.9	130	-0.12
88	TM	Benzo[a]anthracene	1.261	1.299	-3.0	119	-0.11
89	TM	3,3'-Dichlorobenzidine	0.193	0.149	22.8#	85	-0.09
90	TM	Chrysene	1.044	1.078	-3.3	120	-0.11
91	TM	Bis(2-ethylhexyl)phthalate	0.935	1.009	-7.9	125	-0.12
92	S	4-Terphenyl-d14 (surr)	0.991	1.119	-12.9	137	-0.11
93	I	Perylene-D12	1.000	1.000	0.0	92	-0.14
94	TMC	Di-n-octylphthalate	2.322	2.761	-18.9	107	-0.12
95	TM	Benzo[b]fluoranthene	1.355	1.431	-5.6	94	-0.13
96	TM	Benzo[k]fluoranthene	1.284	1.597	-24.4#	108	-0.13
97	TMC	Benzo[a]pyrene	1.046	1.156	-10.5	98	-0.14
98	TM	Indeno(1,2,3-c,d)pyrene	0.608	0.588	3.3	94	-0.20
99	TM	Dibenzo[a,h]anthracene	0.551	0.610	-10.7	106	-0.20
100	TM	Benzo[g,h,i]perylene	0.639	0.641	-0.3	93	-0.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
0812602.D 8270.M Fri Aug 12 08:54:25 2005 ENV Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08-12-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.80	152	157628	4.00 ug/mL	-0.10
18) Naphthalene-D8	8.71	136	600284	4.00 ug/mL	-0.11
33) Acenaphthene-d10	11.49	164	356918	4.00 ug/mL	-0.11
55) Phenanthrene-D10	13.87	188	546126	4.00 ug/mL	-0.11
85) Chrysene-D12	18.11	240	336999	4.00 ug/mL	-0.11
93) Perylene-D12	20.33	264	179212	4.00 ug/mL	-0.14
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.05	112	243343	6.11 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 61.10%	
17) Phenol-d6 (surr)	6.34	99	402382	6.39 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 63.90%	
32) Nitrobenzene-d5 (surr)	7.63	128	136142	6.45 ug/mL	-0.10
Spiked Amount 10.000			Recovery	= 64.50%	
53) 2-Fluorobiphenyl (surr)	10.45	172	635246	6.31 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 63.10%	
54) 2,4,6-Tribromophenol (surr	12.77	330	58462	5.57 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 55.70%	
92) 4-Terphenyl-d14 (surr)	16.47	244	565451	6.78 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 67.80%	

Target Compounds					Qvalue
2) Pyridine	3.47	79	294862	7.52 ug/mL#	55
3) N-Nitrosodimethylamine	3.48	74	208346	8.07 ug/mL	95
4) Phenol	6.36	94	455236	6.49 ug/mL#	71
5) Bis(2-chloroethyl)ether	6.45	93	344091	6.20 ug/mL	97
6) 2-Chlorophenol	6.51	128	332429	6.21 ug/mL	99
7) Benzyl Alcohol	7.04	108	227220	6.05 ug/mL	96
8) 1,3-Dichlorobenzene	6.71	146	320663	6.16 ug/mL	97
9) 1,4-Dichlorobenzene	6.82	146	324574	6.10 ug/mL	99
10) 1,2-Dichlorobenzene	7.04	146	293763	6.08 ug/mL	95
11) 2-Methylphenol	7.22	107	268124	6.10 ug/mL#	88
12) 3-, 4-Methylphenol	7.46	107	386229	6.04 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.23	45	414735	6.52 ug/mL	96
14) N-Nitrosodi-n-propylamine	7.44	70	220361	6.60 ug/mL	98
15) Hexachloroethane	7.53	117	127194	6.13 ug/mL	90
19) Nitrobenzene	7.66	77	393103	6.94 ug/mL	99
20) Isophorone	8.04	82	512508	6.02 ug/mL	99
21) 2-Nitrophenol	8.15	139	161910	5.82 ug/mL	95
22) 2,4-Dimethylphenol	8.26	122	233032	5.94 ug/mL	98
23) Benzoic Acid	8.96	122	108170	4.74 ug/mL	96
24) Bis(2-chloroethoxy)methane	8.39	93	366499	6.45 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0812602.D 8270.M Fri Aug 12 08:55:06 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.53	162	263096	6.39	ug/mL	99
26)	1,2,4-Trichlorobenzene	8.64	180	261732	6.10	ug/mL	97
27)	Naphthalene	8.75	128	835339	6.37	ug/mL	99
28)	4-Chloroaniline	8.87	127	142157m	7.28	ug/mL	
29)	Hexachlorobutadiene	8.96	225	164203	6.20	ug/mL	97
30)	4-Chloro-3-methylphenol	9.68	107	329500	6.85	ug/mL	94
31)	2-Methylnaphthalene	9.84	142	608788	6.38	ug/mL	100
34)	Hexachlorocyclopentadiene	14.68	237	47199m	5.29	ug/mL	
35)	2,4,6-Trichlorophenol	10.32	196	205385	6.39	ug/mL	98
36)	2,4,5-Trichlorophenol	10.39	196	210576	6.46	ug/mL	98
37)	2-Chloronaphthalene	10.60	162	561670	6.36	ug/mL	98
38)	2-Nitroaniline	10.81	65	216259	7.19	ug/mL	96
39)	3-Nitroaniline	11.49	138	101457	22.75	ug/mL#	96
40)	1-Methylnaphthalene	10.00	142	557583	6.35	ug/mL	99
41)	Dimethylphthalate	11.13	163	665583	6.52	ug/mL	99
42)	Acenaphthylene	11.26	152	749313	6.52	ug/mL	99
43)	2,6-Dinitrotoluene	11.21	165	141615	6.44	ug/mL	97
44)	Acenaphthene	11.55	153	492376	6.24	ug/mL	97
45)	2,4-Dinitrophenol	11.67	184	60765	5.87	ug/mL#	80
46)	4-Nitrophenol	11.84	109	63151	4.86	ug/mL#	1
47)	Dibenzofuran	11.83	168	825723	6.49	ug/mL	96
48)	2,4-Dinitrotoluene	11.86	165	180279	6.64	ug/mL#	73
49)	Fluorene	12.37	166	612164	6.50	ug/mL	97
50)	Diethylphthalate	12.27	149	587797	6.30	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.40	204	308077	6.25	ug/mL	95
52)	4-Nitroaniline	12.51	138	87968m	8.45	ug/mL	
56)	4,6-Dinitro-2-methylphenol	12.51	198	94978	5.71	ug/mL	97
57)	Diphenylamine	12.60	169	368623	6.61	ug/mL	98
58)	4-bromophenyl phenyl ether	13.18	248	172961	5.78	ug/mL	95
59)	Hexachlorobenzene	13.26	284	161018	5.62	ug/mL	97
60)	Pentachlorophenol	13.61	266	105734m	5.59	ug/mL	
61)	Phenanthrene	13.90	178	848036	6.24	ug/mL	100
62)	Carbazole	14.28	167	592240	10.74	ug/mL	99
63)	Anthracene	13.99	178	789332	6.28	ug/mL	99
64)	Azobenzene	12.65	77	709031	6.01	ug/mL	99
65)	Di-n-Butylphthalate	14.90	149	973665	5.89	ug/mL	100
66)	Fluoranthene	15.81	202	896503	6.52	ug/mL#	97
67)	alpha-BHC	13.19	183	123138	5.77	ug/mL	93
68)	beta-BHC	13.56	181	105515	6.23	ug/mL	98
69)	gamma-BHC	13.67	183	107552	6.14	ug/mL	98
70)	delta-BHC	14.06	183	95524	6.05	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration
DataAcq Meth : 8270

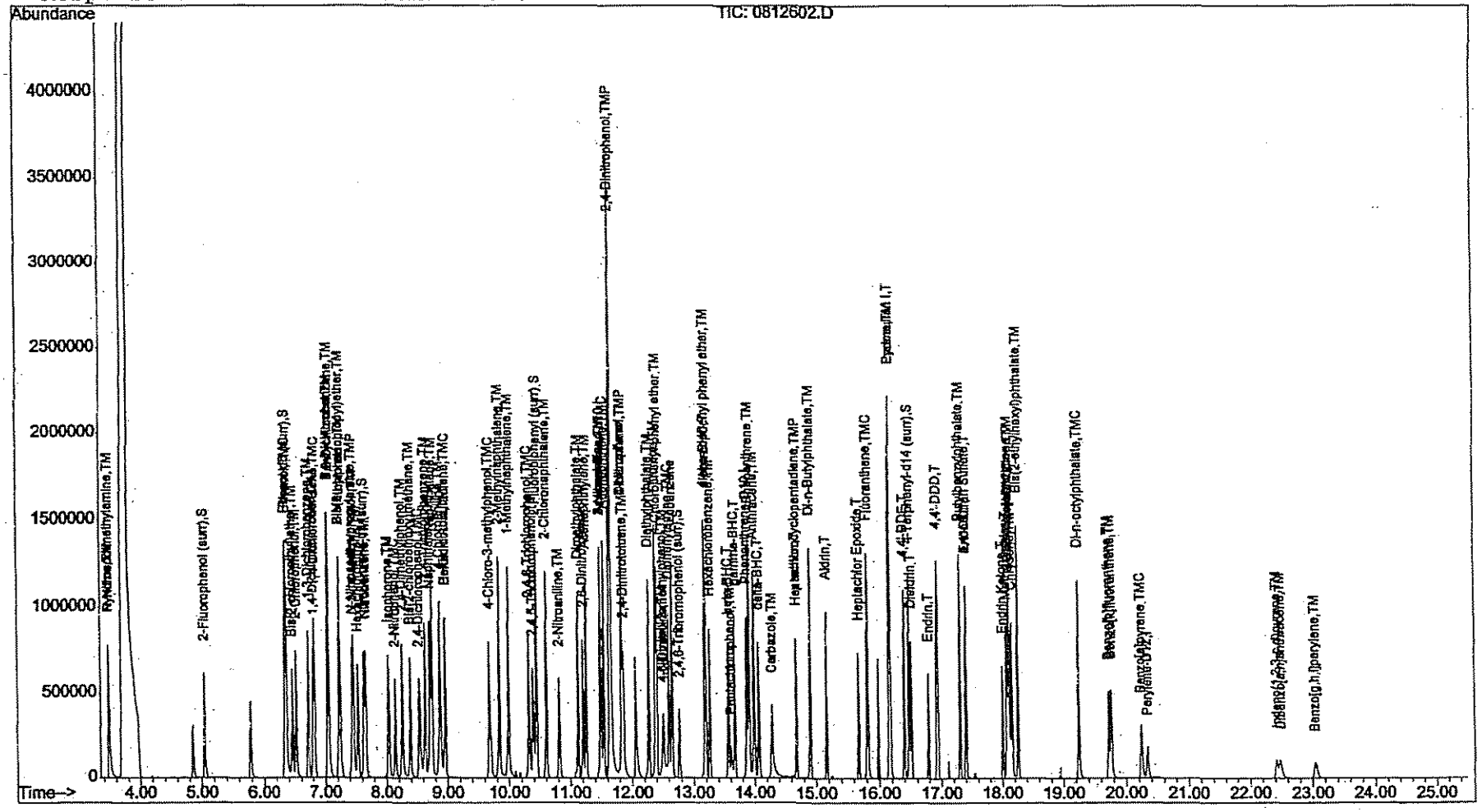
	Compound	R.T.	QIon	Response	Conc Units	Qvalue
71)	Heptachlor	14.68	100	123467	6.04 ug/mL	95
72)	Aldrin	15.17	66	139790	6.39 ug/mL	93
73)	Heptachlor Epoxide	15.67	353	41694	5.57 ug/mL	96
74)	Endosulfan I	16.16	195	32761	5.94 ug/mL	95
75)	4,4'-DDE	16.40	246	194846	6.10 ug/mL	100
76)	Dieldrin	16.51	79	177177	6.49 ug/mL	96
77)	Endrin	16.79	263	31394	6.71 ug/mL	96
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	16.93	235	344917	6.14 ug/mL#	99
80)	Endosulfan Sulfate	17.40	272	41151	5.88 ug/mL	96
81)	4,4'-DDT	17.40	235	237963	5.48 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.00	317	29575	5.10 ug/mL	94
84)	Methoxychlor	18.07	227	519398	5.55 ug/mL	98
86)	Pyrene	16.17	202	869377	7.20 ug/mL	99
87)	Butylbenzylphthalate	17.30	149	395789	6.71 ug/mL	97
88)	Benzo[a]anthracene	18.09	228	656407	6.18 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.12	252	75328	4.64 ug/mL#	96
90)	Chrysene	18.15	228	545029	6.20 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.25	149	510102	6.47 ug/mL	99
94)	Di-n-octylphthalate	19.24	149	742286	7.14 ug/mL	99
95)	Benzo[b]fluoranthene	19.72	252	384778	6.34 ug/mL	100
96)	Benzo[k]fluoranthene	19.76	252	429332	7.46 ug/mL	99
97)	Benzo[a]pyrene	20.23	252	310673	6.63 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	22.42	276	157961m	5.80 ug/mL	
99)	Dibenzo[a,h]anthracene	22.49	278	164081	6.64 ug/mL	96
100)	Benzo[g,h,i]perylene	23.04	276	172386	6.02 ug/mL#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: 8270.RES

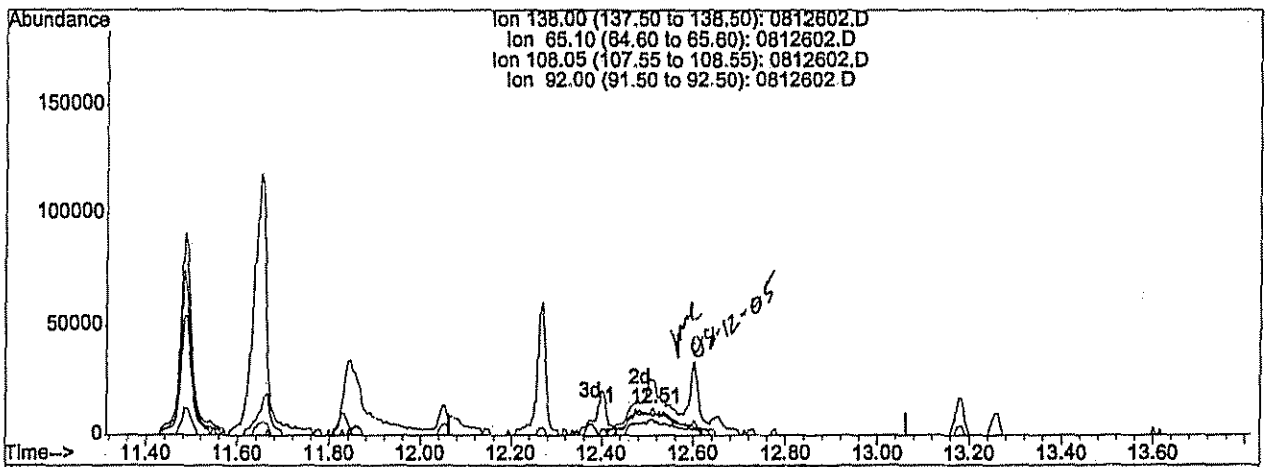
Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration

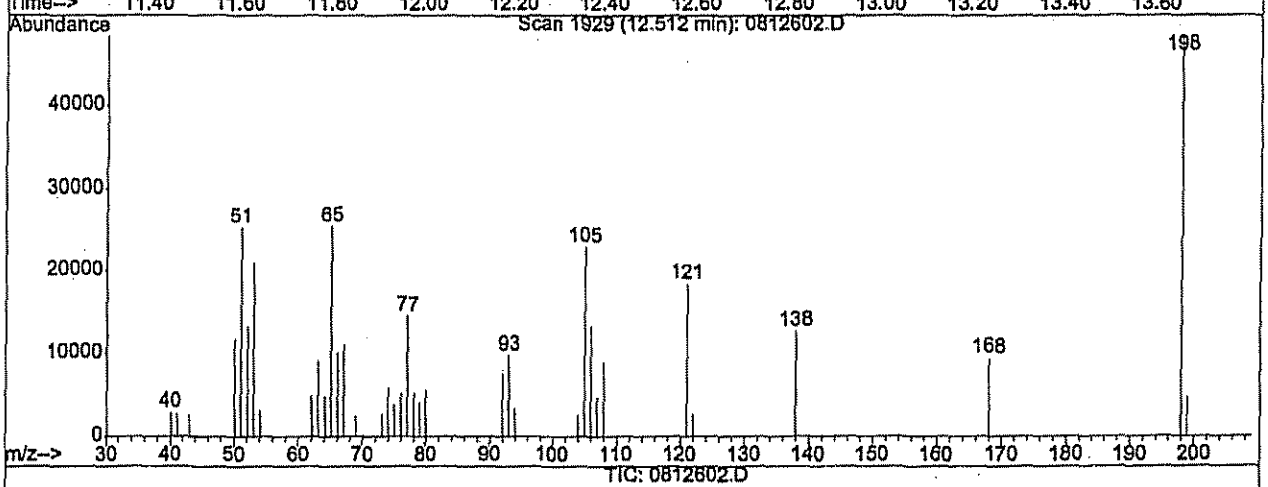


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:52 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.51min 8.45ug/mL m

response 87968

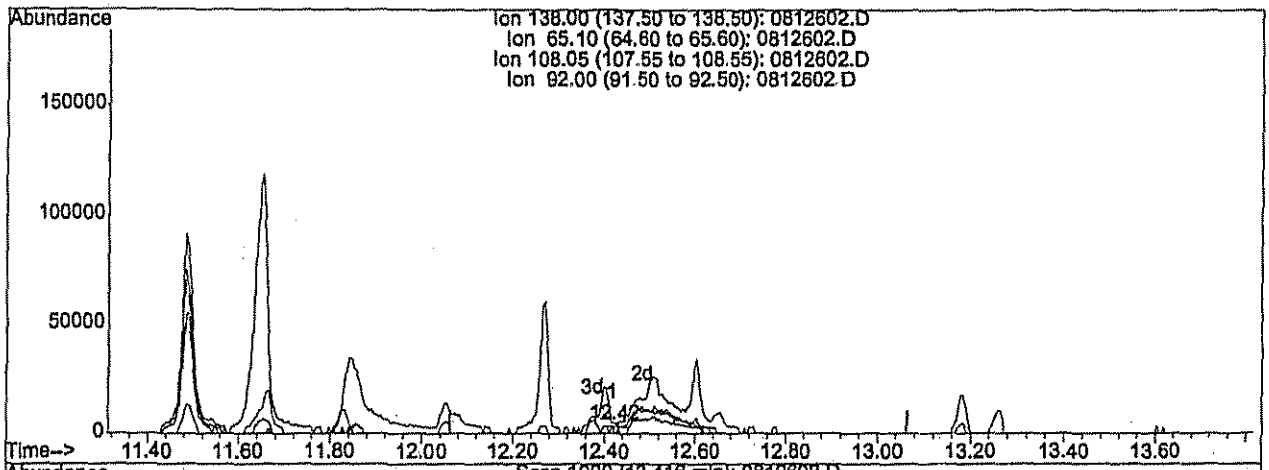
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	201.22#
108.05	86.20	70.21
92.00	49.30	60.09#

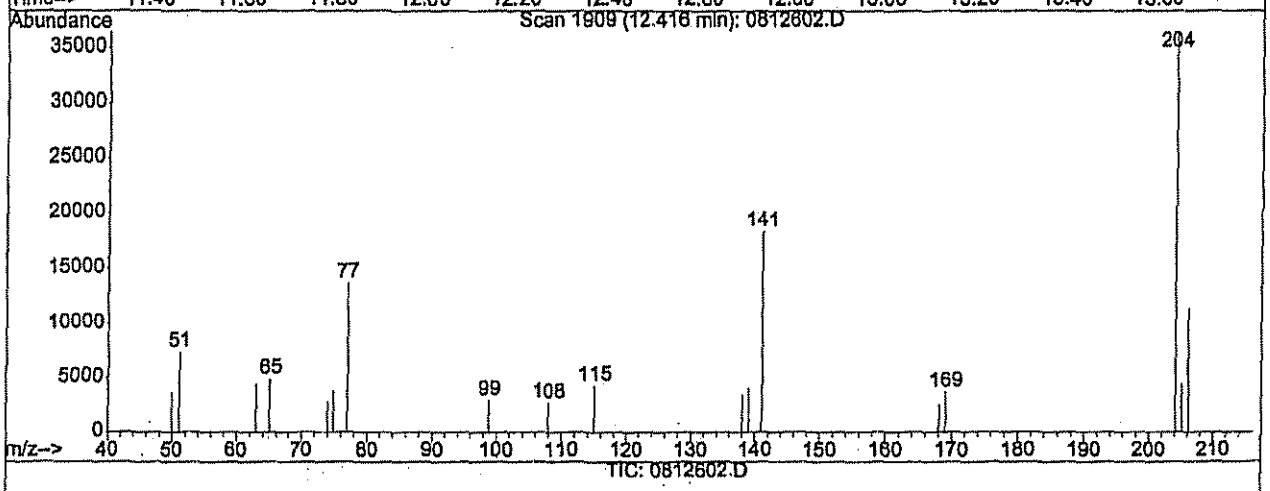
0812602.D 8270.M Fri Aug 12 08:52:47 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:52 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.42min 0.50ug/mL

response 5213

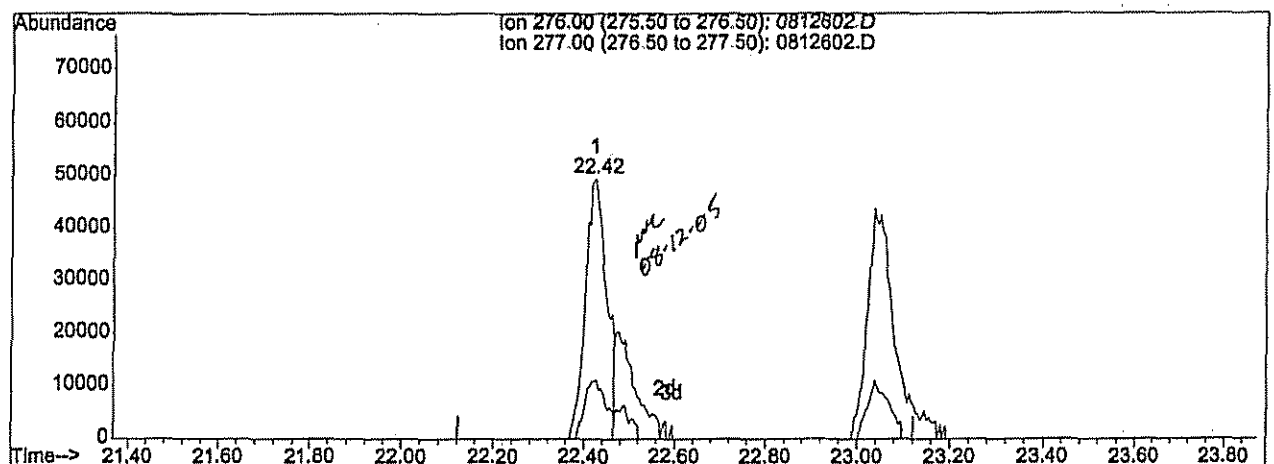
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	4.22#
108.05	86.20	77.33
92.00	49.30	0.00#

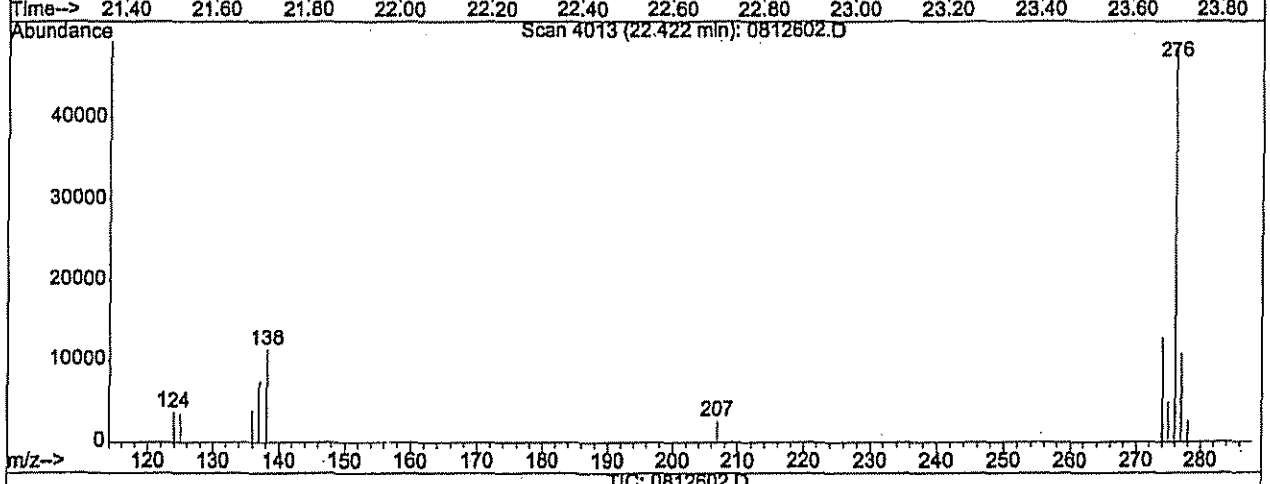
0812602.D 8270.M Fri Aug 12 08:52:43 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

22.42min 5.80ug/mL m

response 157961

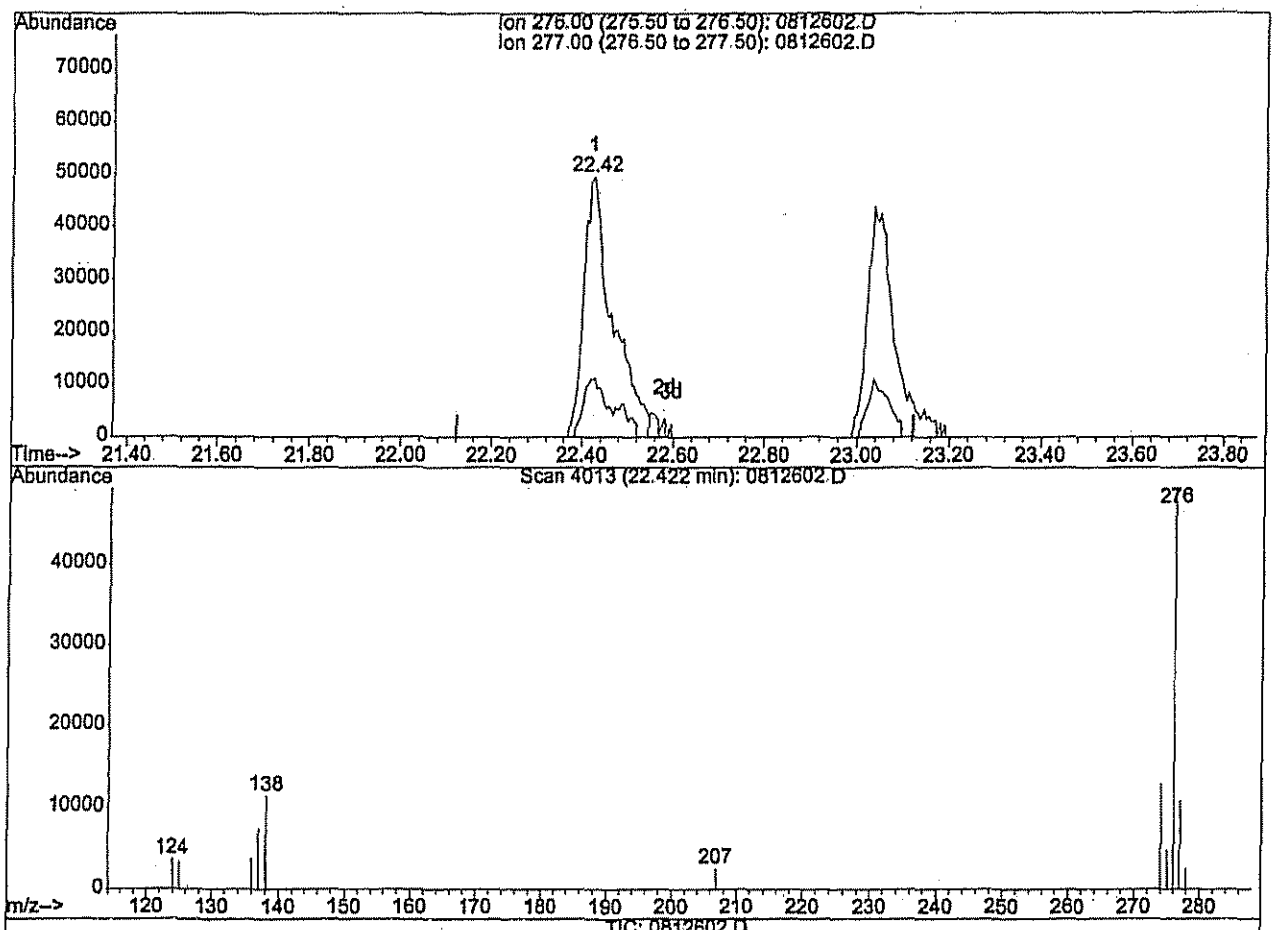
Ion	Exp%	Act%
276.00	100	100
277.00	26.20	21.99
0.00	0.00	0.00
0.00	0.00	0.00

0812602.D 8270.M Fri Aug 12 08:53:49 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6081205\0812602.D Vial: 2
Acq On : 12 Aug 2005 8:17 am Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 12 8:53 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

22.42min 7.91ug/mL

response 215362

Ion	Exp%	Act%
276.00	100	100
277.00	26.20	21.99
0.00	0.00	0.00
0.00	0.00	0.00

0812602.D 8270.M Fri Aug 12 08:53:45 2005 ENV

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	91	-0.08
2	T	Pyridine	0.697	0.761	-9.2	98	-0.10
3	T	N-Nitrosodimethylamine	0.537	0.565	-5.2	90	-0.09
4	TCM	Phenol	1.108	1.269	-14.5	108	-0.08
5	TM	Bis(2-chloroethyl)ether	0.983	1.022	-4.0	94	-0.08
6	TM	2-Chlorophenol	1.227	1.334	-8.7	91	-0.08
7	TM	Benzyl Alcohol	0.733	0.850	-16.0	95	-0.08
8	TM	1,3-Dichlorobenzene	1.303	1.402	-7.6	92	-0.09
9	TCM	1,4-Dichlorobenzene	1.366	1.466	-7.3	92	-0.08
10	TM	1,2-Dichlorobenzene	1.244	1.338	-7.6	92	-0.08
11	TM	2-Methylphenol	0.927	1.023	-10.4	91	-0.08
12	TM	3-, 4-Methylphenol	1.257	1.413	-12.4	91	-0.08
13	TM	Bis(2-chloroisopropyl)ether	1.901	2.052	-7.9	90	-0.08
14	TPM	N-Nitrosodi-n-propylamine	0.646	0.686	-6.2	87	-0.08
15	TM	Hexachloroethane	0.455	0.493	-8.4	89	-0.09
16	S	2-Fluorophenol (surr)	0.892	0.968	-8.5	91	-0.08
17	S	Phenol-d6 (surr)	1.322	1.479	-11.9	94	-0.08
18	I	Naphthalene-D8	1.000	1.000	0.0	92	-0.09
19	TM	Nitrobenzene	0.280	0.302	-7.9	91	-0.08
20	TM	Isophorone	0.434	0.452	-4.1	91	-0.08
21	TCM	2-Nitrophenol	0.168	0.172	-2.4	87	-0.08
22	TM	2,4-Dimethylphenol	0.231	0.241	-4.3	91	-0.08
23	T	Benzoic Acid	0.129	0.097	24.8#	70	-0.10
24	TM	Bis(2-chloroethoxy)methane	0.315	0.344	-9.2	92	-0.08
25	TCM	2,4-Dichlorophenol	0.221	0.240	-8.6	91	-0.08
26	TM	1,2,4-Trichlorobenzene	0.244	0.263	-7.8	93	-0.08
27	TM	Naphthalene	0.804	0.868	-8.0	91	-0.08
28	TM	4-Chloroaniline	0.100	0.107	-7.0	90	-0.08
29	TCM	Hexachlorobutadiene	0.121	0.130	-7.4	93	-0.09
30	TCM	4-Chloro-3-methylphenol	0.228	0.242	-6.1	89	-0.08
31	TM	2-Methylnaphthalene	0.618	0.669	-8.3	92	-0.09
32	S	Nitrobenzene-d5 (surr)	0.125	0.134	-7.2	91	-0.08
33	I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.09
34	TPM	Hexachlorocyclopentadiene	0.066	0.056	15.2	86	-0.08
35	TCM	2,4,6-Trichlorophenol	0.325	0.346	-6.5	90	-0.08
36	TM	2,4,5-Trichlorophenol	0.350	0.378	-8.0	91	-0.08
37	TM	2-Chloronaphthalene	0.971	1.057	-8.9	93	-0.09
38	TM	2-Nitroaniline	0.244	0.317	-29.9#	109	-0.09
39	TM	3-Nitroaniline	0.024	0.027	-12.5	91	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1-Methylnaphthalene	1.147	1.249	-8.9	92	-0.09
41	TM	Dimethylphthalate	1.102	1.170	-6.2	93	-0.08
42	TM	Acenaphthylene	1.482	1.598	-7.8	92	-0.09
43	TM	2,6-Dinitrotoluene	0.234	0.250	-6.8	90	-0.08
44	TCM	Acenaphthene	0.989	1.072	-8.4	93	-0.09
45	TPM	2,4-Dinitrophenol	0.153	0.137	10.5	80	-0.09
46	TPM	4-Nitrophenol	0.075	0.071	5.3	84	-0.05
47	TM	Dibenzofuran	1.457	1.587	-8.9	93	-0.09
48	TM	2,4-Dinitrotoluene	0.312	0.336	-7.7	93	-0.08
49	TM	Fluorene	1.067	1.164	-9.1	94	-0.09
50	TM	Diethylphthalate	1.083	1.170	-8.0	93	-0.09
51	TM	4-Chlorophenyl phenyl ether	0.501	0.556	-11.0	96	-0.09
52	TM	4-Nitroaniline	0.074	0.108	-45.9#	114	-0.09
53	S	2-Fluorobiphenyl (surr)	1.100	1.200	-9.1	93	-0.09
54	S	2,4,6-Tribromophenol (surr)	0.123	0.127	-3.3	88	-0.09
55	I	Phenanthrene-D10	1.000	1.000	0.0	95	-0.09
56	TM	4,6-Dinitro-2-methylphenol	0.114	0.110	3.5	84	-0.08
57	TCM	Diphenylamine	0.253	0.258	-2.0	93	-0.09
58	TM	4-bromophenyl phenyl ether	0.172	0.189	-9.9	93	-0.09
59	TM	Hexachlorobenzene	0.179	0.188	-5.0	92	-0.09
60	TCM	Pentachlorophenol	0.096	0.085	11.5	93	-0.09
61	TM	Phenanthrene	1.016	1.087	-7.0	94	-0.09
62	TM	Carbazole	0.225	0.504	-124.0#	210#	-0.09
63	TM	Anthracene	0.951	1.026	-7.9	95	-0.09
64	T	Azobenzene	0.705	0.760	-7.8	93	-0.09
65	TM	Di-n-Butylphthalate	1.197	1.253	-4.7	90	-0.09
66	TCM	Fluoranthene	0.949	1.021	-7.6	95	-0.09
67	T	alpha-BHC	0.120	0.128	-6.7	92	-0.09
68	T	beta-BHC	0.101	0.109	-7.9	91	-0.09
69	T	gamma-BHC	0.108	0.115	-6.5	92	-0.09
70	T	delta-BHC	0.097	0.103	-6.2	93	-0.09
71	T	Heptachlor	0.141	0.137	2.8	85	-0.09
72	T	Aldrin	0.134	0.137	-2.2	92	-0.09
73	T	Heptachlor Epoxide	0.054	0.053	1.9	89	-0.09
74	T	Endosulfan I	0.031	0.034	-9.7	89	-0.09
75	T	4,4'-DDE	0.198	0.208	-5.1	92	-0.09
76	T	Dieldrin	0.180	0.168	6.7	86	-0.09
77	T	Endrin	0.030	0.030	0.0	87	-0.09
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-18.31#
79	T	4,4'-DDD	0.358	0.372	-3.9	91	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.050	0.047	6.0	81	-0.09
81	T	4,4'-DDT	0.277	0.250	9.7	78	-0.10
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-18.29#
83	T	Endrin Ketone	0.036	0.035	2.8	82	-0.10
84	T	Methoxychlor	0.605	0.534	11.7	76	-0.09
85	I	Chrysene-D12	1.000	1.000	0.0	91	-0.10
86	TM	Pyrene	1.413	1.619	-14.6	95	-0.10
87	TM	Butylbenzylphthalate	0.801	0.817	-2.0	85	-0.09
88	TM	Benzo[a]anthracene	1.202	1.243	-3.4	89	-0.10
89	TM	3,3'-Dichlorobenzidine	0.142	0.146	-2.8	93	-0.09
90	TM	Chrysene	1.099	1.159	-5.5	92	-0.10
91	TM	Bis(2-ethylhexyl)phthalate	1.121	1.089	2.9	81	-0.09
92	S	4-Terphenyl-d14 (surr)	0.920	1.057	-14.9	96	-0.09
93	I	Perylene-D12	1.000	1.000	0.0	71	-0.10
94	TCM	Di-n-octylphthalate	2.346	2.716	-15.8	72	-0.09
95	TM	Benzo[b]fluoranthene	1.248	1.337	-7.1	74	-0.10
96	TM	Benzo[k]fluoranthene	1.295	1.611	-24.4#	80	-0.10
97	TCM	Benzo[a]pyrene	1.023	1.168	-14.2	78	-0.10
98	TM	Indeno(1,2,3-c,d)pyrene	0.793	0.737	7.1	64	-0.14
99	TM	Dibenzo[a,h]anthracene	0.590	0.530	10.2	63	-0.14
100	TM	Benzo[g,h,i]perylene	0.700	0.660	5.7	64	-0.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:29:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mrc 08/16/05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	5.97	152	142407	4.00 ug/mL	-0.08
18) Naphthalene-D8	7.86	136	592795	4.00 ug/mL	-0.09
33) Acenaphthene-d10	10.61	164	286348	4.00 ug/mL	-0.09
55) Phenanthrene-D10	12.96	188	462035	4.00 ug/mL	-0.09
85) Chrysene-D12	17.18	240	287289	4.00 ug/mL	-0.10
93) Perylene-D12	19.28	264	164864	4.00 ug/mL	-0.10
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	4.25	112	206862m	6.51 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 65.10%	
17) Phenol-d6 (surr)	5.57	99	316027	6.72 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 67.20%	
32) Nitrobenzene-d5 (surr)	6.81	128	119356	6.42 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 64.20%	
53) 2-Fluorobiphenyl (surr)	9.59	172	515426	6.55 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 65.50%	
54) 2,4,6-Tribromophenol (surr	11.88	330	54500	6.17 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 61.70%	
92) 4-Terphenyl-d14 (surr)	15.57	244	455570	6.89 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 68.90%	

Target Compounds					Qvalue
2) Pyridine	2.68	79	162522m	6.27 ug/mL	
3) N-Nitrosodimethylamine	2.72	74	120768	6.32 ug/mL	99
4) Phenol	5.59	94	271047m	6.87 ug/mL	
5) Bis(2-chloroethyl)ether	5.65	93	218387m	6.24 ug/mL	
6) 2-Chlorophenol	5.69	128	285003	6.53 ug/mL	98
7) Benzyl Alcohol	6.24	108	181674	6.97 ug/mL	98
8) 1,3-Dichlorobenzene	5.88	146	299476	6.46 ug/mL	96
9) 1,4-Dichlorobenzene	5.99	146	313192	6.44 ug/mL	98
10) 1,2-Dichlorobenzene	6.20	146	285746	6.45 ug/mL	98
11) 2-Methylphenol	6.44	107	218489	6.62 ug/mL	98
12) 3-, 4-Methylphenol	6.68	107	301810	6.74 ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.43	45	438394	6.48 ug/mL	94
14) N-Nitrosodi-n-propylamine	6.63	70	146449	6.37 ug/mL	98
15) Hexachloroethane	6.68	117	105356	6.51 ug/mL	98
19) Nitrobenzene	6.83	77	268914	6.47 ug/mL	98
20) Isophorone	7.21	82	401602	6.24 ug/mL	98
21) 2-Nitrophenol	7.32	139	153153	6.14 ug/mL	98
22) 2,4-Dimethylphenol	7.46	122	214272	6.25 ug/mL	100
23) Benzoic Acid	7.73	122	86590	4.57 ug/mL	94
24) Bis(2-chloroethoxy)methane	7.58	93	306043	6.56 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0810702.D 8270.M Wed Aug 10 11:38:31 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:29:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25) 2,4-Dichlorophenol	7.71	162	213446	6.53	ug/mL	99
26) 1,2,4-Trichlorobenzene	7.79	180	233596	6.45	ug/mL	98
27) Naphthalene	7.89	128	771965	6.48	ug/mL	99
28) 4-Chloroaniline	7.89	127	95115	6.44	ug/mL	94
29) Hexachlorobutadiene	8.12	225	115524	6.47	ug/mL	99
30) 4-Chloro-3-methylphenol	8.88	107	215483	6.38	ug/mL	98
31) 2-Methylnaphthalene	8.98	142	594978	6.49	ug/mL	100
34) Hexachlorocyclopentadiene	9.25	237	23995	5.11	ug/mL	98
35) 2,4,6-Trichlorophenol	9.48	196	148645	6.39	ug/mL	95
36) 2,4,5-Trichlorophenol	9.55	196	162389	6.47	ug/mL	97
37) 2-Chloronaphthalene	9.74	162	453798	6.53	ug/mL	99
38) 2-Nitroaniline	9.97	65	136101	7.79	ug/mL	99
39) 3-Nitroaniline	10.95	138	11634	6.87	ug/mL	100
40) 1-Methylnaphthalene	9.13	142	536325	6.53	ug/mL	97
41) Dimethylphthalate	10.29	163	502439	6.37	ug/mL	100
42) Acenaphthylene	10.38	152	686425	6.47	ug/mL	100
43) 2,6-Dinitrotoluene	10.37	165	107400	6.42	ug/mL	99
44) Acenaphthene	10.66	153	460598	6.51	ug/mL	98
45) 2,4-Dinitrophenol	10.82	184	58854	5.38	ug/mL	96
46) 4-Nitrophenol	11.07	109	30317m	5.54	ug/mL	
47) Dibenzofuran	10.95	168	681441	6.53	ug/mL	99
48) 2,4-Dinitrotoluene	11.01	165	144249	6.45	ug/mL	99
49) Fluorene	11.49	166	500149	6.55	ug/mL	99
50) Diethylphthalate	11.43	149	502536	6.48	ug/mL	98
51) 4-Chlorophenyl phenyl ethe	11.54	204	238662	6.66	ug/mL	98
52) 4-Nitroaniline	11.67	138	46486	7.46	ug/mL	93
56) 4,6-Dinitro-2-methylphenol	11.65	198	76035	5.35	ug/mL	96
57) Diphenylamine	11.74	169	178783	6.12	ug/mL	99
58) 4-bromophenyl phenyl ether	12.30	248	130658	6.57	ug/mL	95
59) Hexachlorobenzene	12.36	284	130464	6.30	ug/mL	99
60) Pentachlorophenol	12.72	266	59023	5.38	ug/mL	97
61) Phenanthrene	13.00	178	753120	6.42	ug/mL	99
62) Carbazole	13.40	167	349405	13.47	ug/mL	98
63) Anthracene	13.08	178	711121	6.47	ug/mL	99
64) Azobenzene	11.78	77	526710	6.46	ug/mL	99
65) Di-n-Butylphthalate	14.05	149	868649	6.28	ug/mL	100
66) Fluoranthene	14.89	202	707367	6.45	ug/mL	98
67) alpha-BHC	12.30	183	88473	6.38	ug/mL	98
68) beta-BHC	12.69	181	75511	6.48	ug/mL	98
69) gamma-BHC	12.78	183	79417	6.35	ug/mL	99
70) delta-BHC	13.19	183	71362	6.37	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:29:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.77	100	94741	5.80 ug/mL	97
72)	Aldrin	14.25	66	95229	6.16 ug/mL	98
73)	Heptachlor Epoxide	14.76	353	37054	5.97 ug/mL	99
74)	Endosulfan I	15.23	195	23760	6.56 ug/mL	91
75)	4,4'-DDE	15.50	246	144480	6.32 ug/mL	100
76)	Dieldrin	15.58	79	116632	5.62 ug/mL	99
77)	Endrin	15.58	263	20955	6.11 ug/mL	91
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.03	235	258070	6.24 ug/mL#	99
80)	Endosulfan Sulfate	16.47	272	32665	5.71 ug/mL	94
81)	4,4'-DDT	16.50	235	173033	5.42 ug/mL	97
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.06	317	24351	5.78 ug/mL	98
84)	Methoxychlor	17.18	227	370349	5.30 ug/mL	85
86)	Pyrene	15.23	202	697674	6.87 ug/mL	97
87)	Butylbenzylphthalate	16.42	149	352063	6.12 ug/mL	98
88)	Benzo[a]anthracene	17.17	228	535764	6.21 ug/mL	98
89)	3,3'-Dichlorobenzidine	17.20	252	63102	6.19 ug/mL	99
90)	Chrysene	17.22	228	499311	6.33 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.39	149	469341	5.83 ug/mL	99
94)	Di-n-octylphthalate	18.37	149	671609	6.94 ug/mL	100
95)	Benzo[b]fluoranthene	18.76	252	330749m	6.43 ug/mL	
96)	Benzo[k]fluoranthene	18.80	252	398281m	7.46 ug/mL	
97)	Benzo[a]pyrene	19.21	252	288828	6.85 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	20.88	276	182368	5.58 ug/mL	98
99)	Dibenzo[a,h]anthracene	20.92	278	131056	5.39 ug/mL	98
100)	Benzo[g,h,i]perylene	21.33	276	163293	5.66 ug/mL	98

(#) = qualifier out of range (m) = manual integration

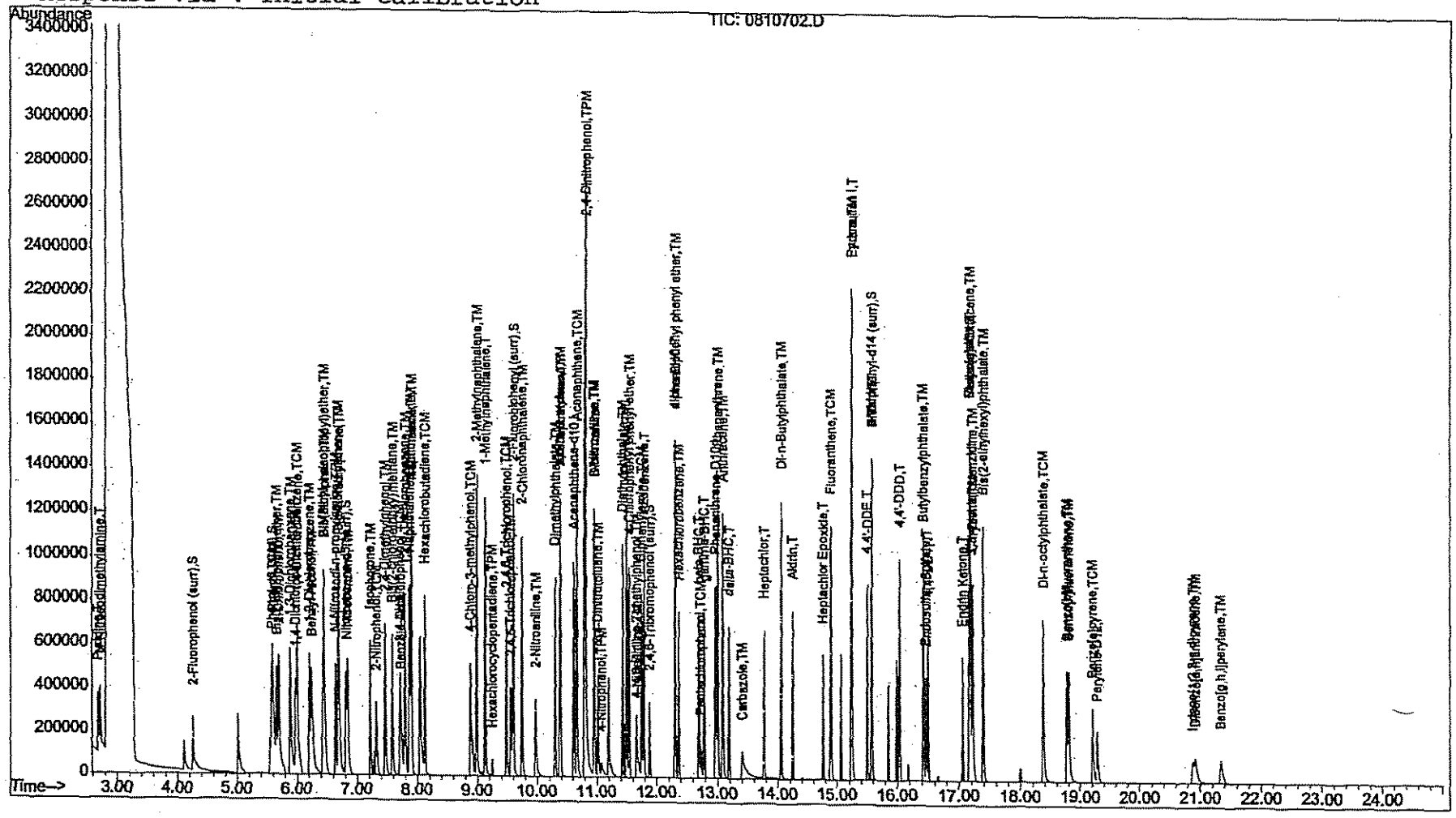
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D
Acq On : 10 Aug 2005 11:04 am
Sample : SVCVS6
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 10 11:36 2005

Vial: 2
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration

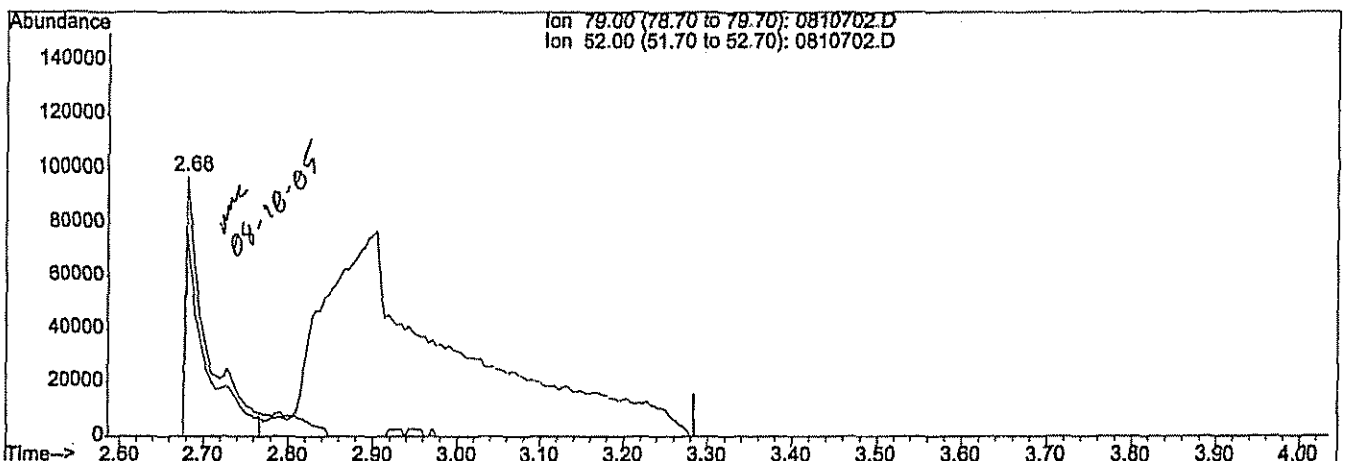


0810702.D 8270.M Wed Aug 10 11:38:34 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(2) Pyridine (T)

2.68min 6.27ug/mL m

response 162522

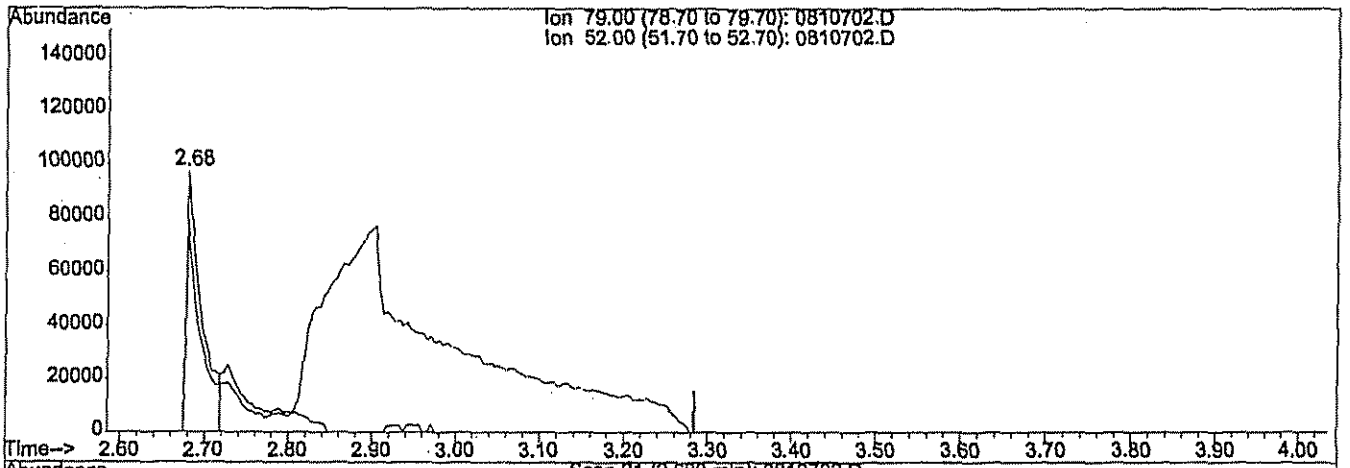
Ion	Exp%	Act%
79.00	100	100
52.00	76.70	57.16#
0.00	0.00	0.00
0.00	0.00	0.00

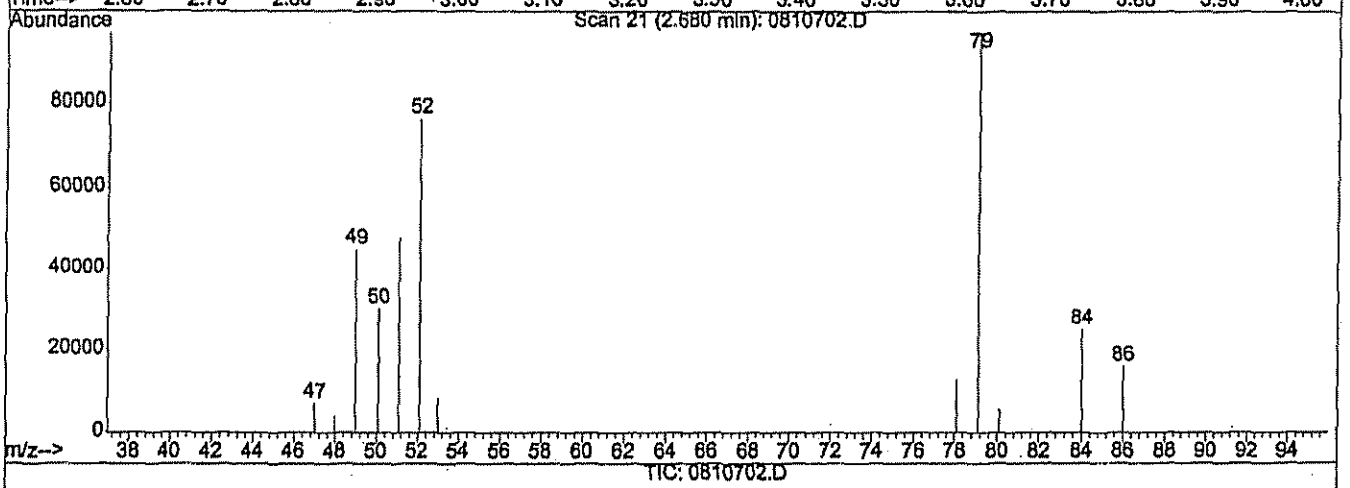
0810702.D 8270.M Wed Aug 10 11:33:26 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:29 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





TIC: 0810702.D

(2) Pyridine (T)

2.68min 4.60ug/mL

response 118979

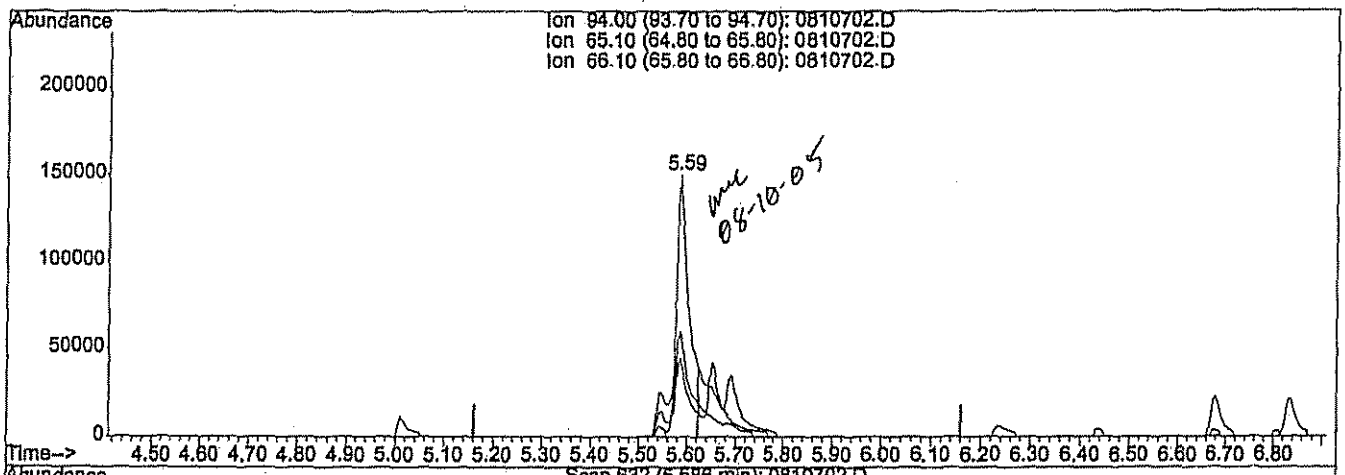
Ion	Exp%	Act%
79.00	100	100
52.00	76.70	78.09
0.00	0.00	0.00
0.00	0.00	0.00

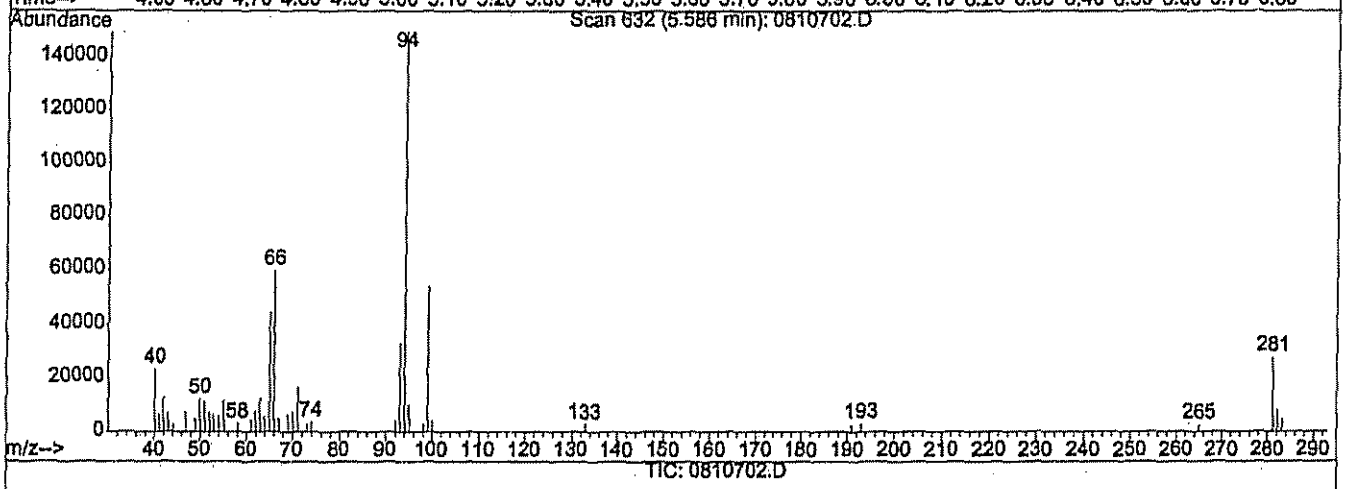
0810702.D 8270.M Wed Aug 10 11:33:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





(4) Phenol (TCM)

5.59min 6.87ug/mL m

response 271047

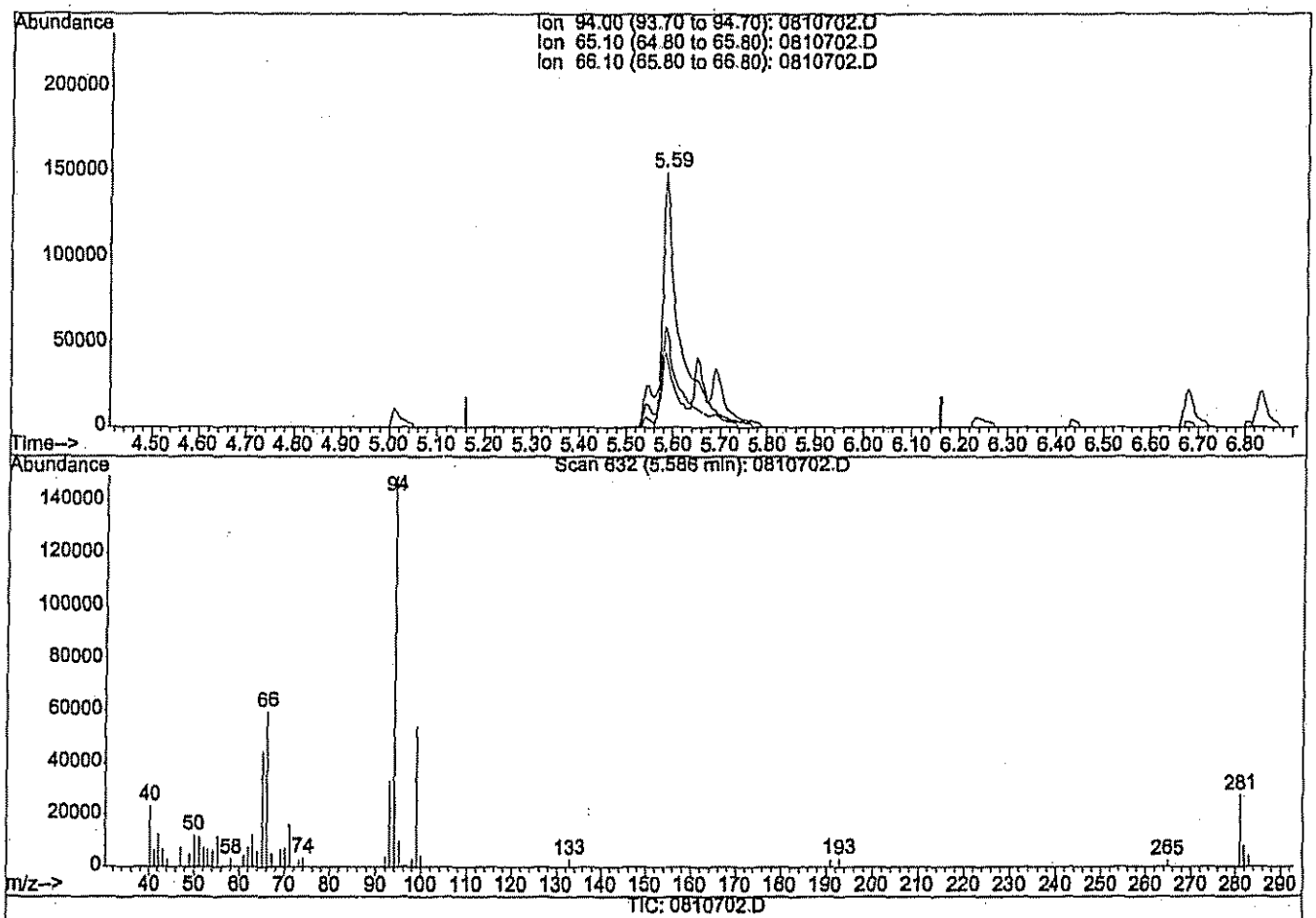
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	29.88
66.10	33.90	39.86
0.00	0.00	0.00

0810702.D 8270.M Wed Aug 10 11:33:41 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.59min 9.62ug/mL

response 379560

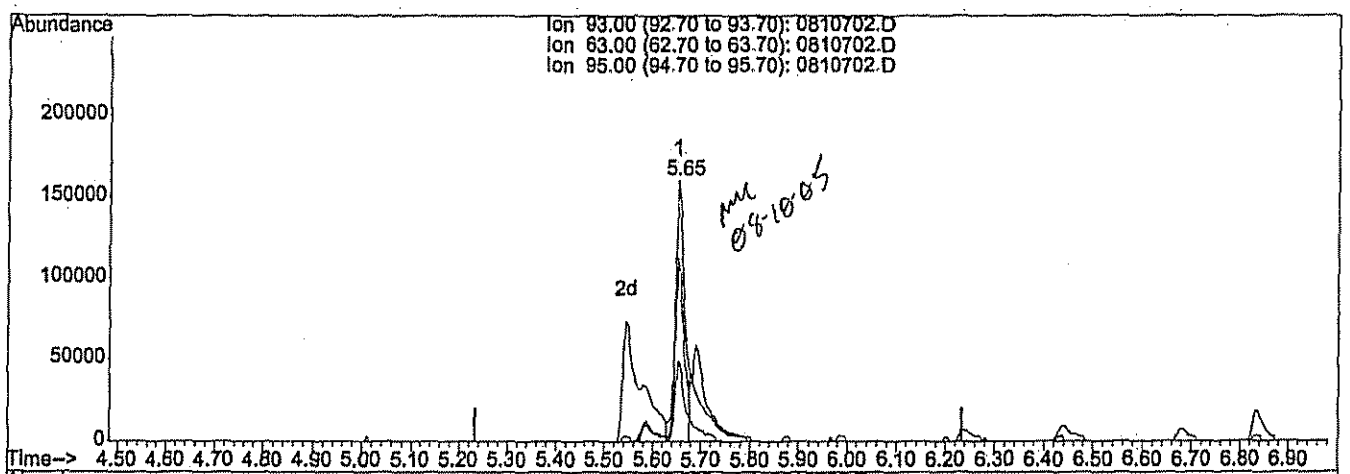
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.58
66.10	33.90	39.86
0.00	0.00	0.00

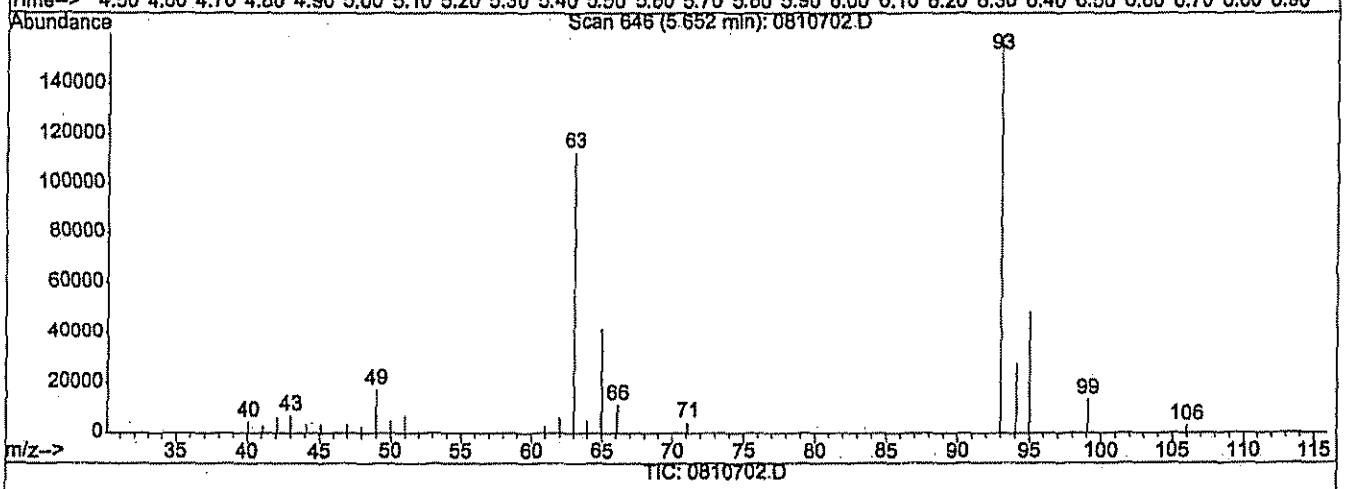
0810702.D 8270.M Wed Aug 10 11:33:31 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.65min 6.24ug/mL m

response 218387

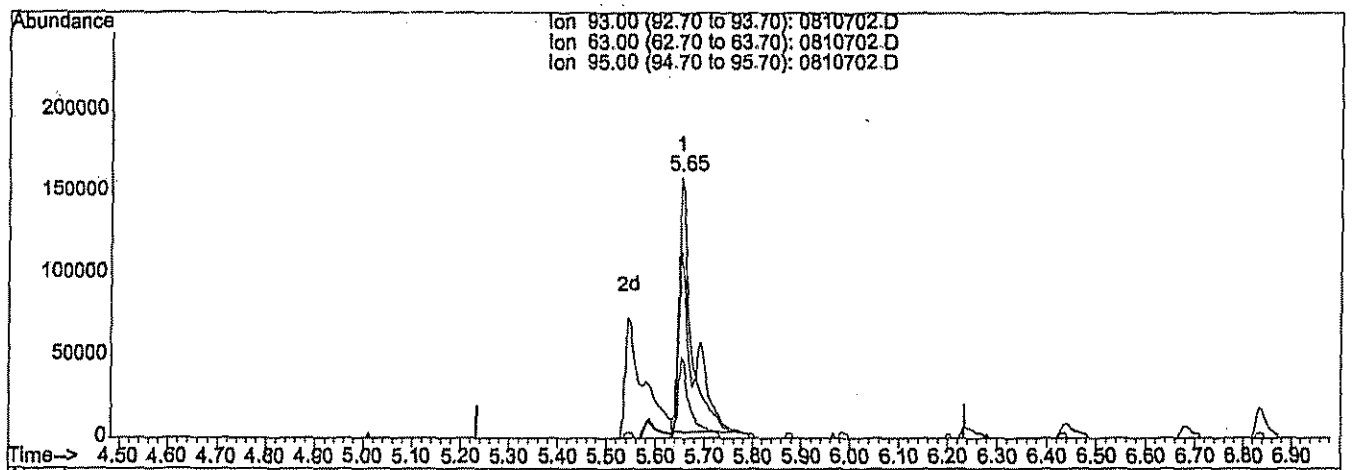
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.57
95.00	32.20	30.42
0.00	0.00	0.00

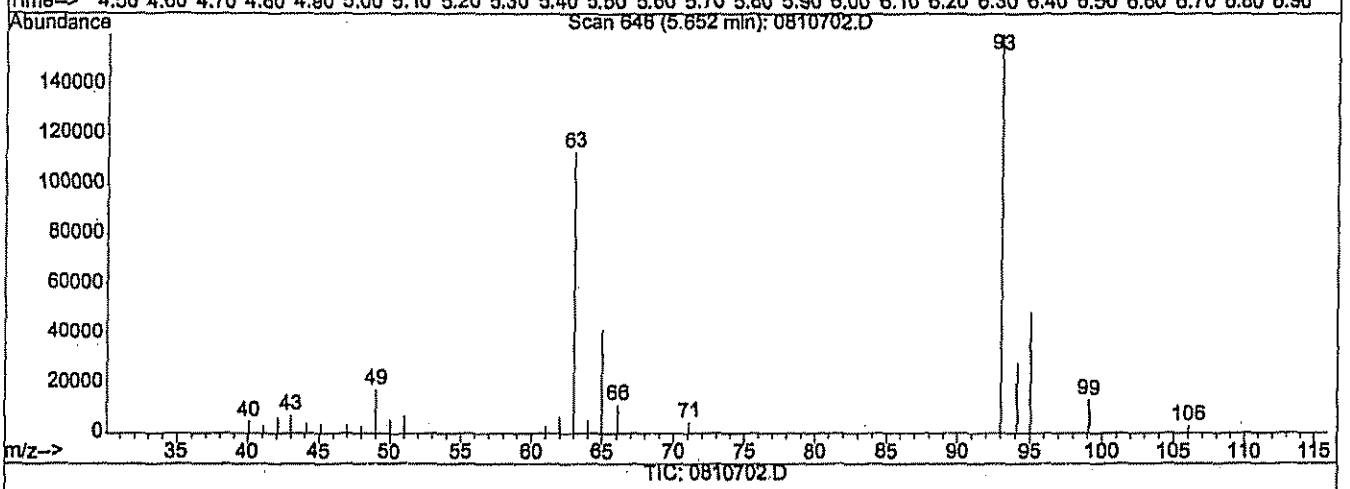
0810702.D 8270.M Wed Aug 10 11:33:53 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

5.65min 7.59ug/mL

response 265500

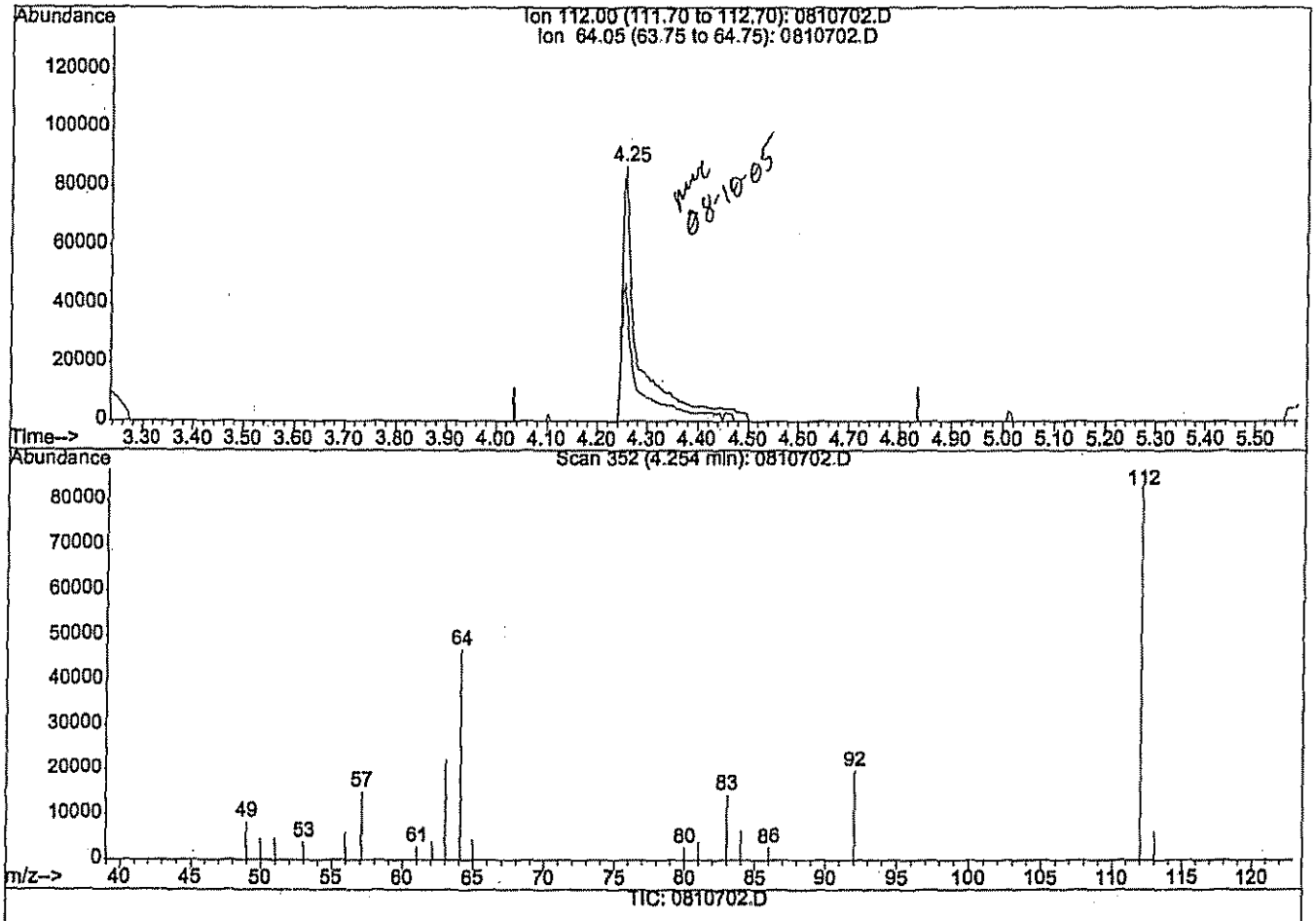
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.53
95.00	32.20	31.17
0.00	0.00	0.00

0810702.D 8270.M Wed Aug 10 11:33:44 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:34 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

4.25min 6.51ug/mL m

response 206862

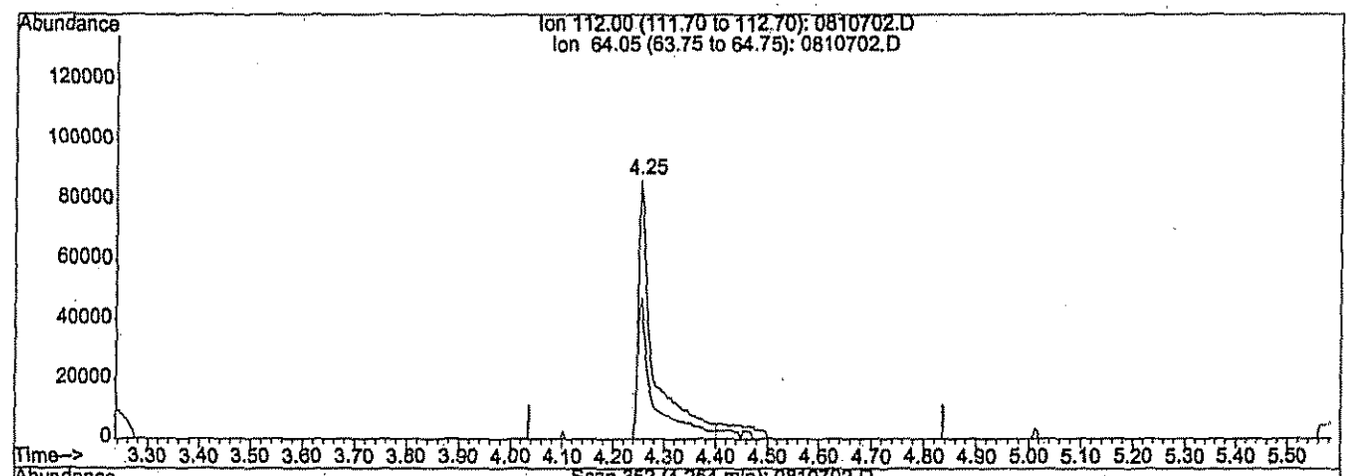
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	48.88
0.00	0.00	0.00
0.00	0.00	0.00

0810702.D 8270.M Wed Aug 10 11:34:09 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(16) 2-Fluorophenol (surr) (S)

4.25min 5.77ug/mL

response 183155

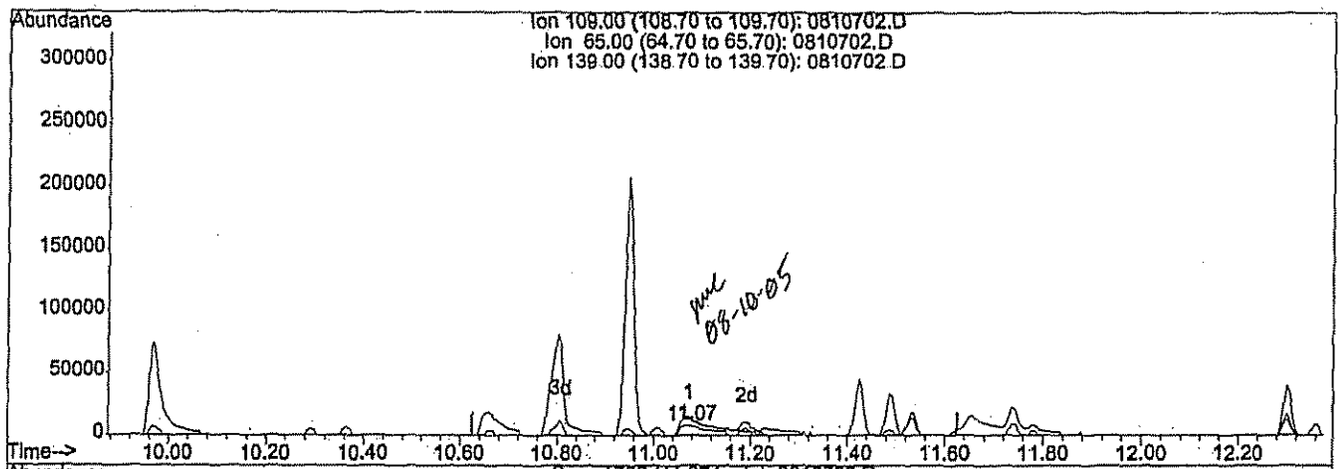
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	55.20
0.00	0.00	0.00
0.00	0.00	0.00

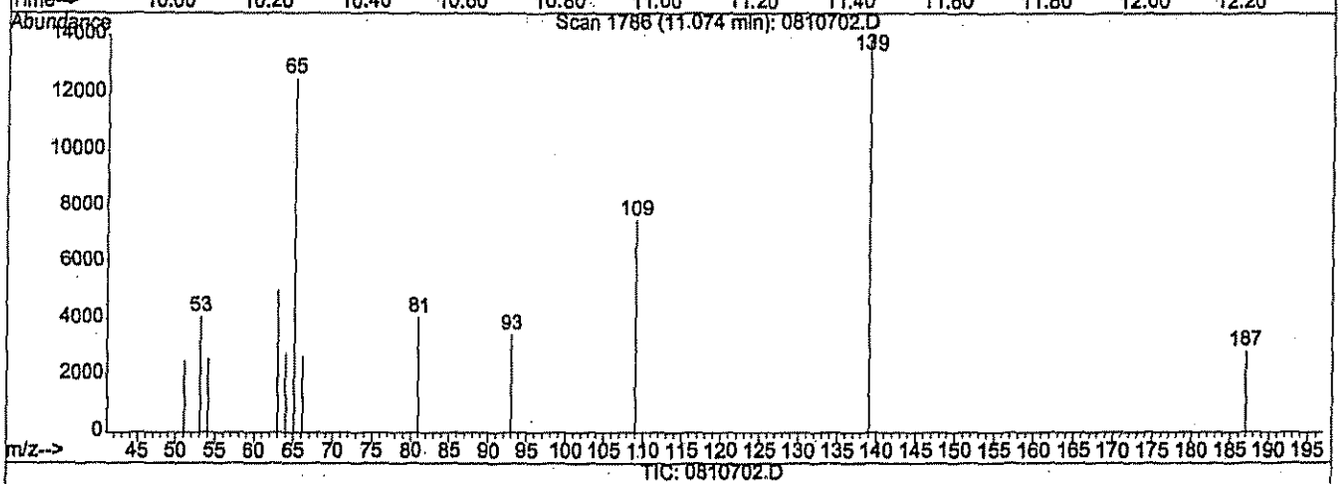
0810702.D 8270.M Wed Aug 10 11:34:06 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





TIC: 0810702.D

(46) 4-Nitrophenol (TPM)

11.07min 5.54ug/mL m

response 30317

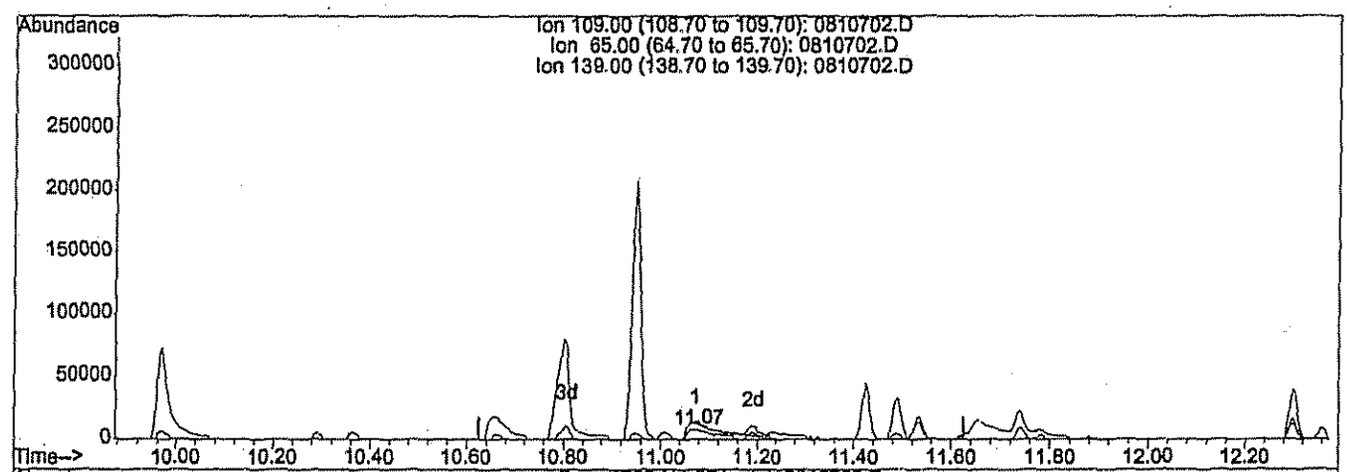
Ion	Exp%	Act%
109.00	100	100
65.00	139.50	165.74
139.00	187.40	186.17
0.00	0.00	0.00

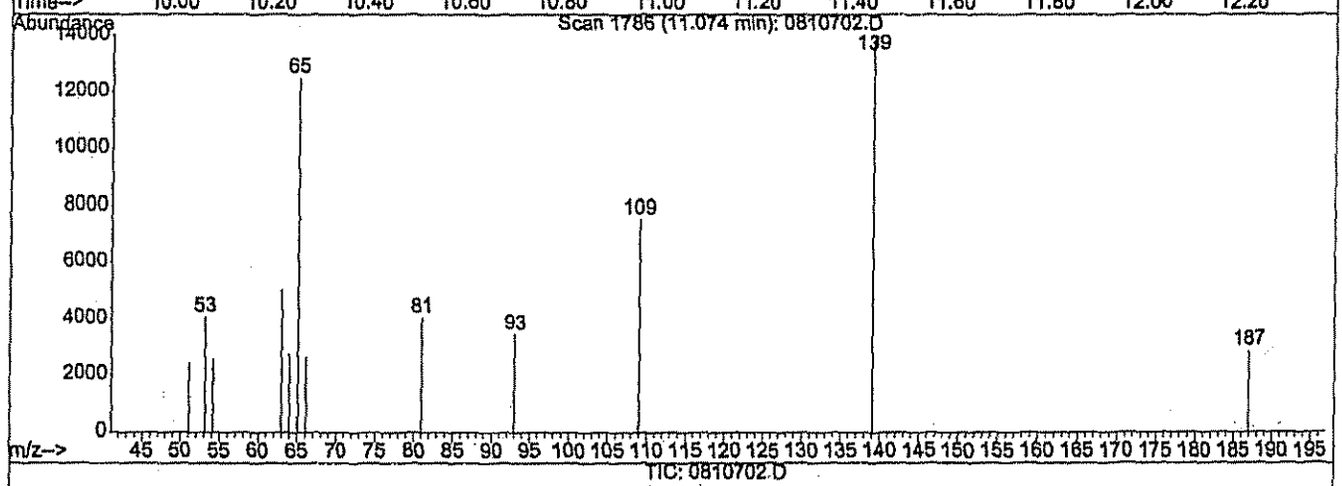
0810702.D 8270.M Wed Aug 10 11:35:14 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810702.D Vial: 2
Acq On : 10 Aug 2005 11:04 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 11:34 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration





TIC: 0810702.D

(46) 4-Nitrophenol (TPM)

11.07min 4.50ug/mL

response 22150

Ion	Exp%	Act%
109.00	100	100
65.00	139.50	165.74
139.00	187.40	186.17
0.00	0.00	0.00

0810702.D 8270.M Wed Aug 10 11:35:09 2005 ENV

625-BN QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810711.D Vial: 11
Acq On : 10 Aug 2005 4:12 pm Operator: MRC
Sample : PB3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 16:37:37 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 08-11-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	5.97	152	147263	4.00 ug/mL	-0.08
18) Naphthalene-D8	7.86	136	591202	4.00 ug/mL	-0.09
33) Acenaphthene-d10	10.61	164	285398	4.00 ug/mL	-0.09
55) Phenanthrene-D10	12.96	188	443672	4.00 ug/mL	-0.09
85) Chrysene-D12	17.18	240	232657	4.00 ug/mL	-0.10
93) Perylene-D12	19.29	264	134973	4.00 ug/mL	-0.09
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	4.26	112	270170	8.23 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 82.30%	
17) Phenol-d6 (surr)	5.57	99	478994	9.84 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 98.40%	
32) Nitrobenzene-d5 (surr)	6.81	128	171813	9.27 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 92.70%	
53) 2-Fluorobiphenyl (surr)	9.59	172	749278	9.55 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 95.50%	
54) 2,4,6-Tribromophenol (surr	11.88	330	73010	8.30 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 83.00%	
92) 4-Terphenyl-d14 (surr)	15.57	244	711447	13.29 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 132.90%	

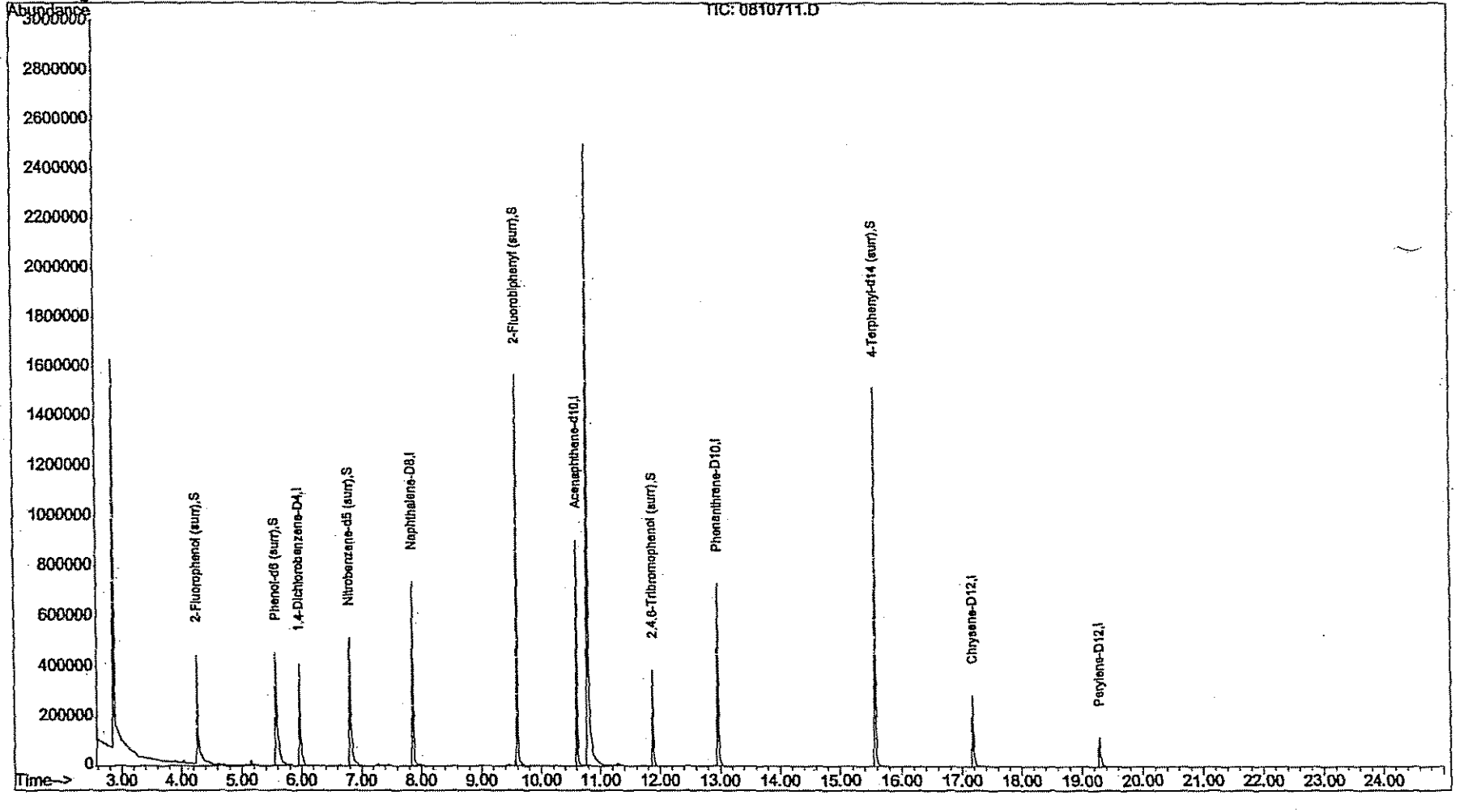
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0810711.D 8270.M Thu Aug 11 14:43:28 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810711.D Vial: 11
Acq On : 10 Aug 2005 4:12 pm Operator: MRC
Sample : PB3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:32 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7081005\0810711.D Vial: 11
Acq On : 10 Aug 2005 4:12 pm Operator: MRC
Sample : PB3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.87	10.76 ug/mL	1910460	1,4-Dichlorobenzene-D4	5.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	91
5	Toluene	92	C7H8	000108-88-3	90

****

Peak Number 2 2-Propenoic acid, 3-(1H-ind... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	14.90 ug/mL	4115710	Acenaphthene-d10	10.61

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 3-(1H-indol-3-...	187	C11H9NO2	001204-06-4	10
2	3,5-Dimethyl-4-benzylisoxazole	187	C12H13NO	010557-84-3	9
3	Benzene, 1-isocyanato-3-(trifluo...	187	C8H4F3NO	000329-01-1	9
4	Benzene, 1-isocyanato-2-(trifluo...	187	C8H4F3NO	002285-12-3	9
5	4-Fluoro-4,5-dichlorocyclohexane	170	C6H9Cl2F	000000-00-0	9

Tentatively Identified Compound (TIC) Summary

Operator ID: MRC Date Acquired: 10 Aug 2005 4:12 pm
Data File: C:\MSDCHEM\1\DATA\7081005\0810711.D
Name: PB3409 x1
Misc: 8270 [3520-3409]
Method: C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Toluene	2.87	10.8	ug/mL	1910460	1	5.97	710394	4.0
2-Propenoic acid,...	10.80	14.9	ug/mL	4115710	3	10.61	1104730	4.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:11:00 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mnl 08-11-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	5.96	152	130937	4.00	ug/mL	-0.09
18) Naphthalene-D8	7.86	136	533201	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.61	164	251310	4.00	ug/mL	-0.09
55) Phenanthrene-D10	12.97	188	402832	4.00	ug/mL	-0.09
85) Chrysene-D12	17.18	240	253230	4.00	ug/mL	-0.10
93) Perylene-D12	19.28	264	156737	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.26	112	242153	8.29	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 82.90%			
17) Phenol-d6 (surr)	5.57	99	437748	10.12	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 101.20%			
32) Nitrobenzene-d5 (surr)	6.81	128	173333	10.37	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 103.70%			
53) 2-Fluorobiphenyl (surr)	9.60	172	703358	10.18	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 101.80%			
54) 2,4,6-Tribromophenol (surr	11.89	330	81032	10.46	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 104.60%			
92) 4-Terphenyl-d14 (surr)	15.57	244	683729	11.74	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 117.40%			
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.71	74	154968	8.82	ug/mL	96
4) Phenol	5.59	94	337847m	9.31	ug/mL	
5) Bis(2-chloroethyl)ether	5.66	93	269543m	8.38	ug/mL	
6) 2-Chlorophenol	5.70	128	361232	9.00	ug/mL	100
7) Benzyl Alcohol	6.24	108	228790	9.54	ug/mL	97
8) 1,3-Dichlorobenzene	5.88	146	296100	6.94	ug/mL	96
9) 1,4-Dichlorobenzene	5.99	146	325956	7.29	ug/mL	97
10) 1,2-Dichlorobenzene	6.20	146	307517	7.55	ug/mL	99
11) 2-Methylphenol	6.44	107	285861	9.42	ug/mL	97
12) 3-, 4-Methylphenol	6.68	107	715676	17.39	ug/mL#	91
13) Bis(2-chloroisopropyl)ethe	6.43	45	587083	9.43	ug/mL	99
14) N-Nitrosodi-n-propylamine	6.64	70	212263	10.04	ug/mL	98
15) Hexachloroethane	6.68	117	100336	6.74	ug/mL	97
19) Nitrobenzene	6.84	77	386471	10.35	ug/mL	98
20) Isophorone	7.21	82	692536	11.96	ug/mL	100
21) 2-Nitrophenol	7.32	139	200900	8.95	ug/mL	100
22) 2,4-Dimethylphenol	7.46	122	240994	7.81	ug/mL	98
23) Benzoic Acid	7.74	122	120155	6.37	ug/mL	97
24) Bis(2-chloroethoxy)methane	7.58	93	417292	9.95	ug/mL	99
25) 2,4-Dichlorophenol	7.71	162	281092	9.56	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:11:00 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	7.79	180	293983	9.03	ug/mL	100
27) Naphthalene	7.89	128	1036011	9.66	ug/mL	100
28) 4-Chloroaniline	7.89	127	127496	9.59	ug/mL	99
29) Hexachlorobutadiene	8.13	225	141972	8.83	ug/mL	97
30) 4-Chloro-3-methylphenol	8.88	107	288763	9.50	ug/mL	99
31) 2-Methylnaphthalene	8.99	142	724079	8.78	ug/mL	99
34) Hexachlorocyclopentadiene	9.25	237	15300	4.27	ug/mL#	93
35) 2,4,6-Trichlorophenol	9.48	196	196216	9.60	ug/mL	99
36) 2,4,5-Trichlorophenol	9.55	196	213063	9.68	ug/mL	99
37) 2-Chloronaphthalene	9.74	162	895324	14.67	ug/mL	97
38) 2-Nitroaniline	9.97	65	180657	11.78	ug/mL	97
39) 3-Nitroaniline	10.95	138	14636	9.85	ug/mL	100
40) 1-Methylnaphthalene	9.13	142	722504	10.03	ug/mL	98
41) Dimethylphthalate	10.30	163	729790	10.54	ug/mL	99
42) Acenaphthylene	10.38	152	1039266	11.16	ug/mL	100
43) 2,6-Dinitrotoluene	10.37	165	162351	11.05	ug/mL	98
44) Acenaphthene	10.66	153	663588	10.68	ug/mL	98
45) 2,4-Dinitrophenol	10.82	184	83705	8.72	ug/mL	99
46) 4-Nitrophenol	11.06	109	50231	8.99	ug/mL	91
47) Dibenzofuran	10.95	168	898232	9.81	ug/mL	99
48) 2,4-Dinitrotoluene	11.01	165	221131	11.26	ug/mL	99
49) Fluorene	11.49	166	734736	10.96	ug/mL	99
50) Diethylphthalate	11.43	149	750440	11.02	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.54	204	335032	10.65	ug/mL	97
52) 4-Nitroaniline	11.66	138	84947	13.79	ug/mL	86
56) 4,6-Dinitro-2-methylphenol	11.65	198	115346	8.93	ug/mL	98
57) Diphenylamine	11.74	169	547142	21.47	ug/mL	98
58) 4-bromophenyl phenyl ether	12.30	248	182648	10.54	ug/mL	97
59) Hexachlorobenzene	12.36	284	189038	10.47	ug/mL	98
60) Pentachlorophenol	12.72	266	71209	7.15	ug/mL	94
61) Phenanthrene	13.00	178	1064843	10.41	ug/mL	99
63) Anthracene	13.09	178	1002911	10.47	ug/mL	100
64) Azobenzene	11.78	77	717925	10.11	ug/mL	100
65) Di-n-Butylphthalate	14.05	149	1305892	10.84	ug/mL	100
66) Fluoranthene	14.89	202	1016255	10.63	ug/mL	99
86) Pyrene	15.23	202	1069684	11.96	ug/mL	96
87) Butylbenzylphthalate	16.42	149	551542	10.88	ug/mL	96
88) Benzo[a]anthracene	17.17	228	736860	9.69	ug/mL	96
89) 3,3'-Dichlorobenzidine	17.20	252	107233	11.94	ug/mL	95
90) Chrysene	17.22	228	775765	11.15	ug/mL	99
91) Bis(2-ethylhexyl)phthalate	17.39	149	734491	10.35	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:11:00 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	18.37	149	1012913	11.02 ug/mL	100
95)	Benzo[b]fluoranthene	18.77	252	514547	10.52 ug/mL	99
96)	Benzo[k]fluoranthene	18.81	252	626422	12.34 ug/mL	99
97)	Benzo[a]pyrene	19.21	252	447869	11.17 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	20.88	276	323306	10.41 ug/mL	99
99)	Dibenzo[a,h]anthracene	20.92	278	245204	10.61 ug/mL	98
100)	Benzo[g,h,i]perylene	21.33	276	305820	11.15 ug/mL	92

(#) = qualifier out of range (m) = manual integration

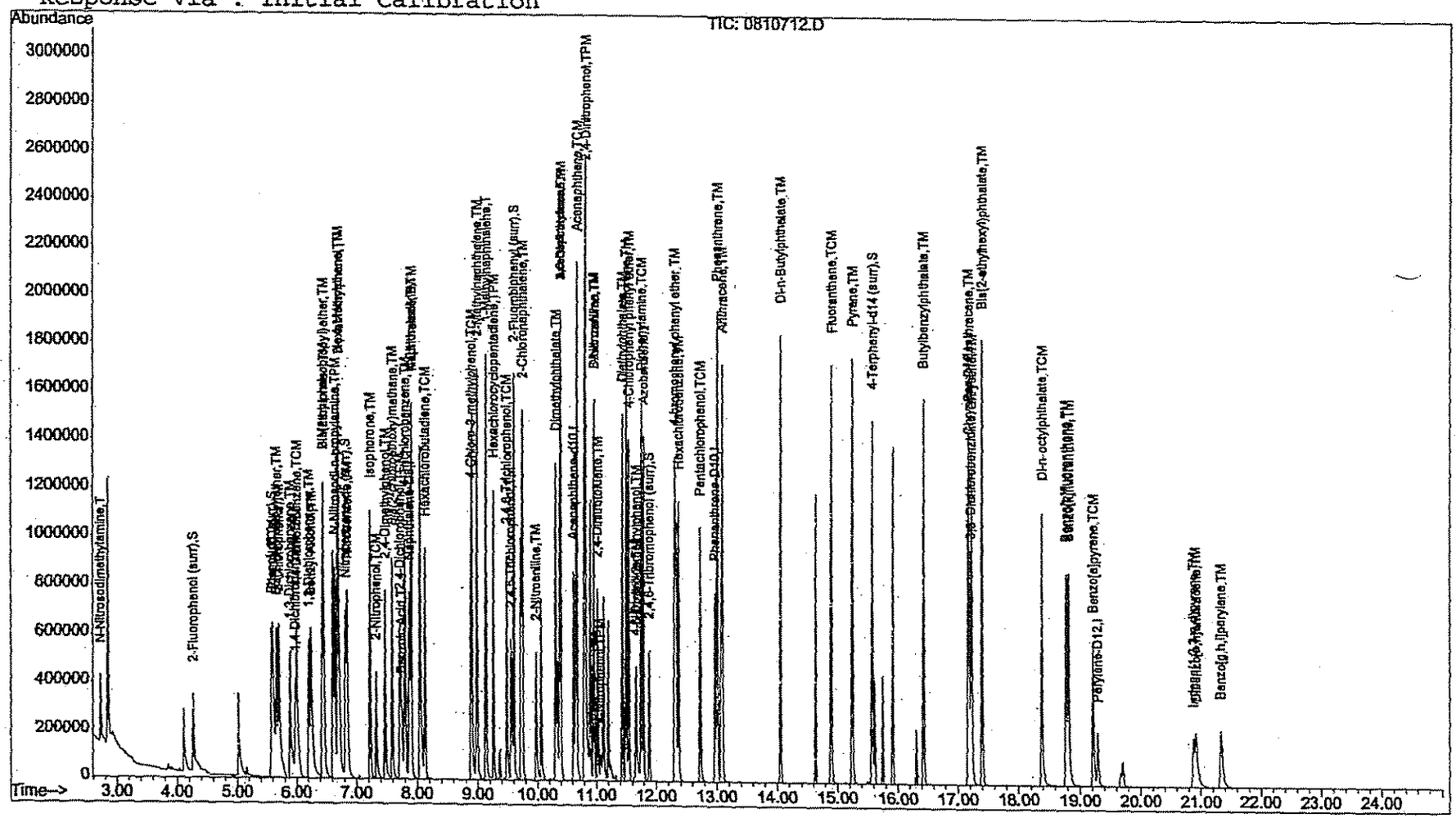
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D
Acq On : 10 Aug 2005 4:45 pm
Sample : LCS3409 x1
Misc : 8270 [3520-3409]
MS Integration Params: rteint.p
Quant Time: Aug 11 14:35 2005

Vial: 12
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



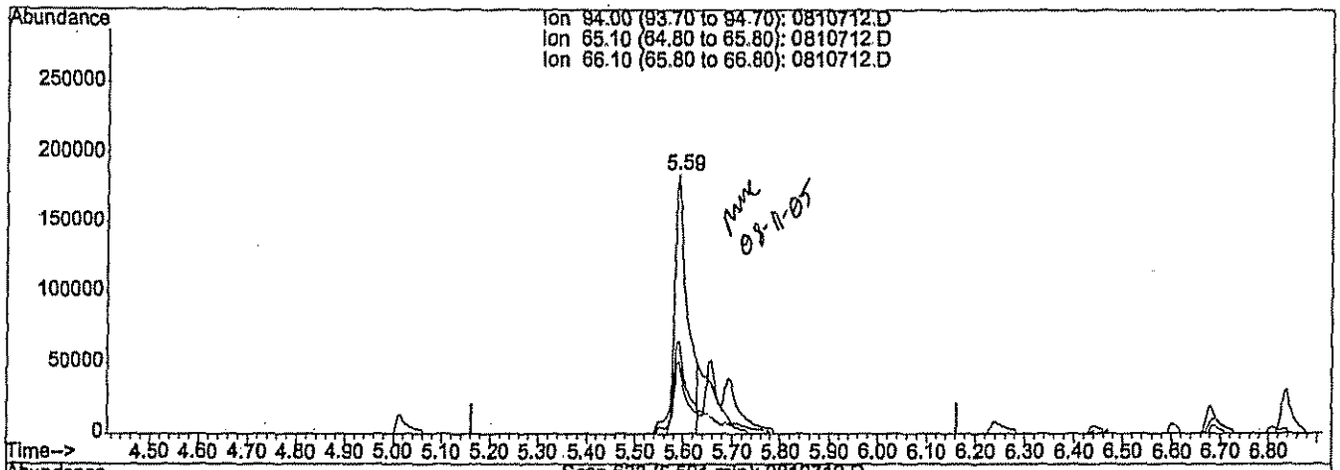
0810712.D 8270.M Thu Aug 11 14:43:34 2005 ENV

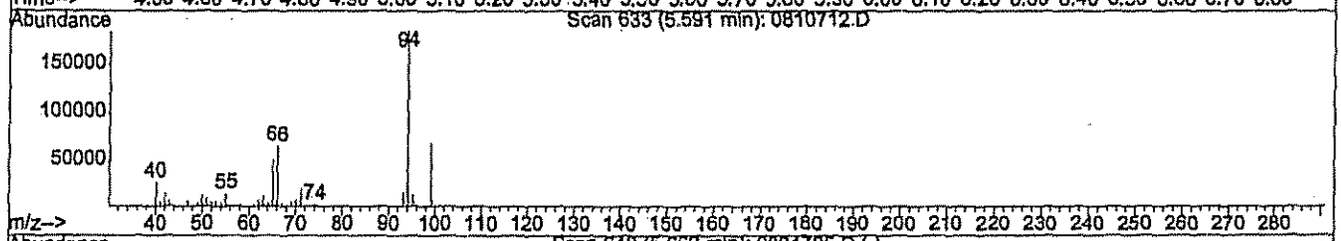
Page 4

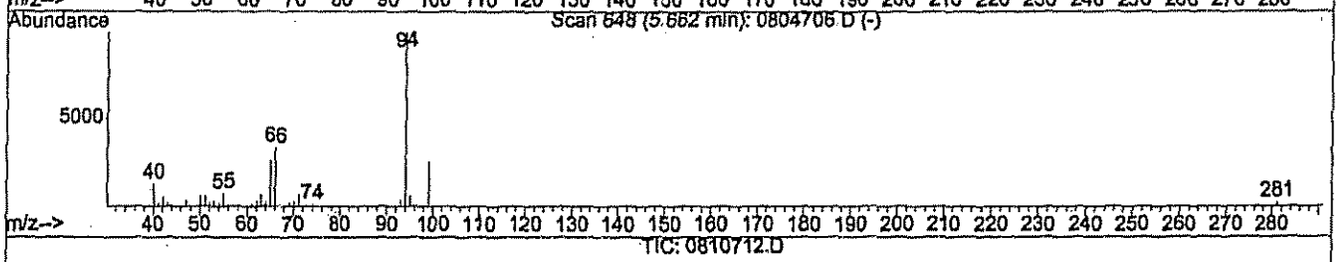
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration







TIC: 0810712.D

(4) Phenol (TCM)

5.59min 9.31ug/mL m

response 337847

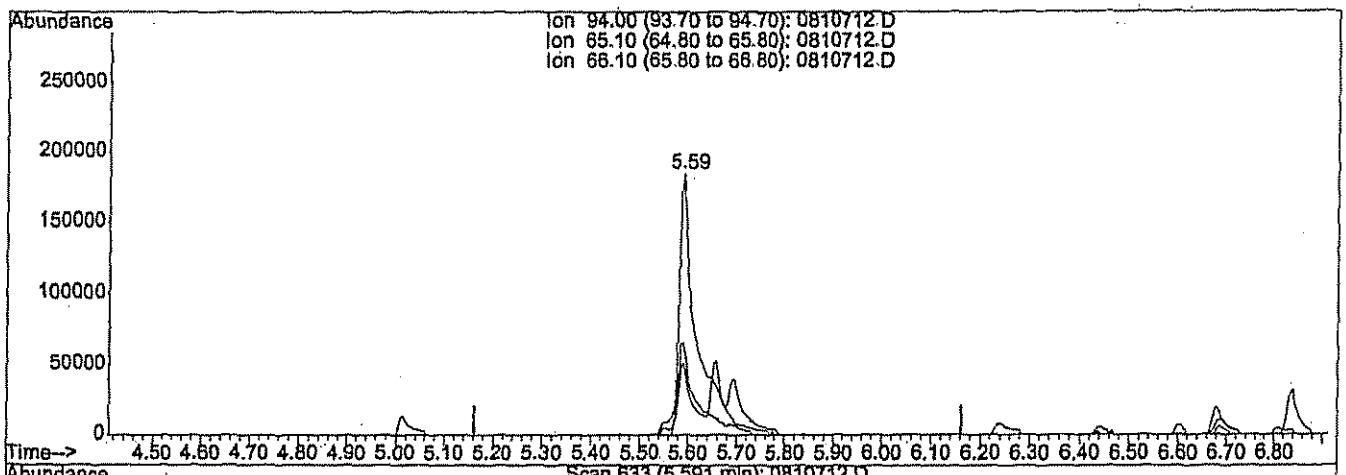
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.67
66.10	33.90	35.32
0.00	0.00	0.00

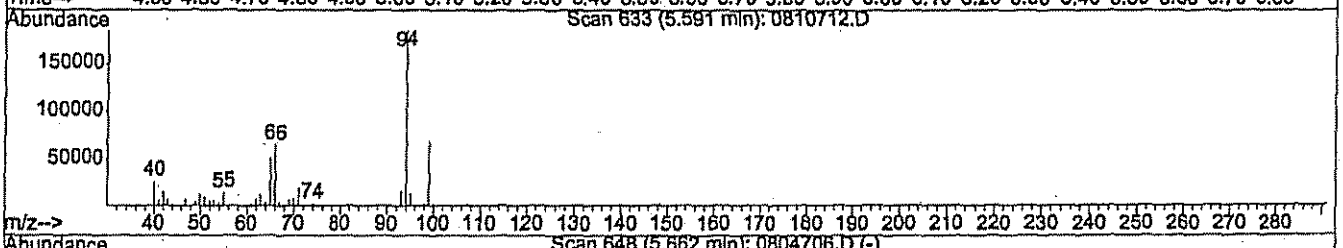
0810712.D 8270.M Thu Aug 11 14:32:59 2005 ENV

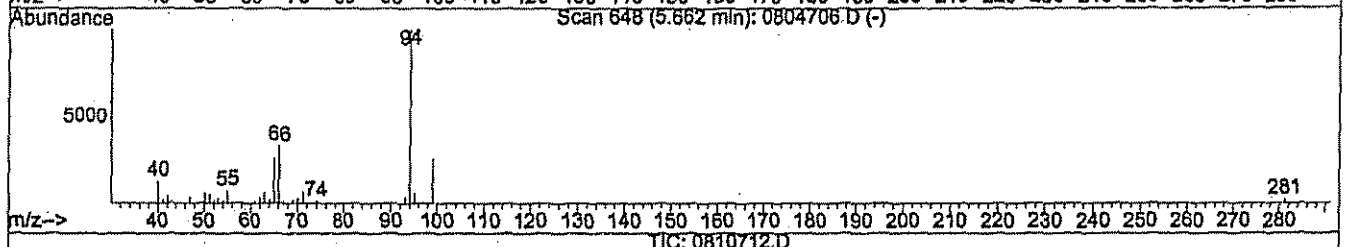
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:11 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration







TIC: 0810712.D

(4) Phenol (TCM)

5.59min 12.98ug/mL

response 470951

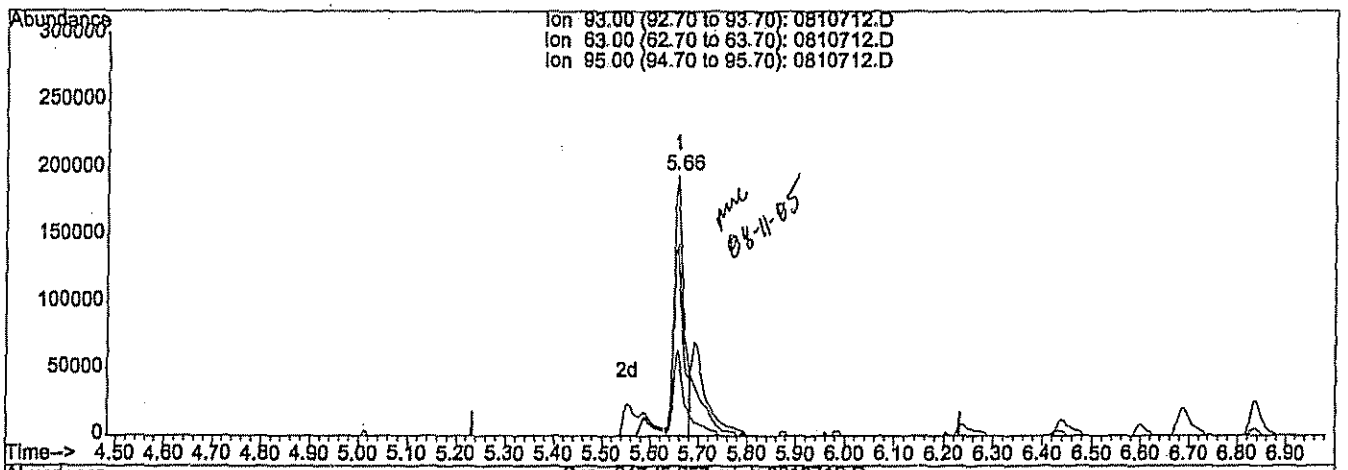
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.17
66.10	33.90	35.32
0.00	0.00	0.00

0810712.D 8270.M Thu Aug 11 14:32:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.66min 8.38ug/mL m

response 269543

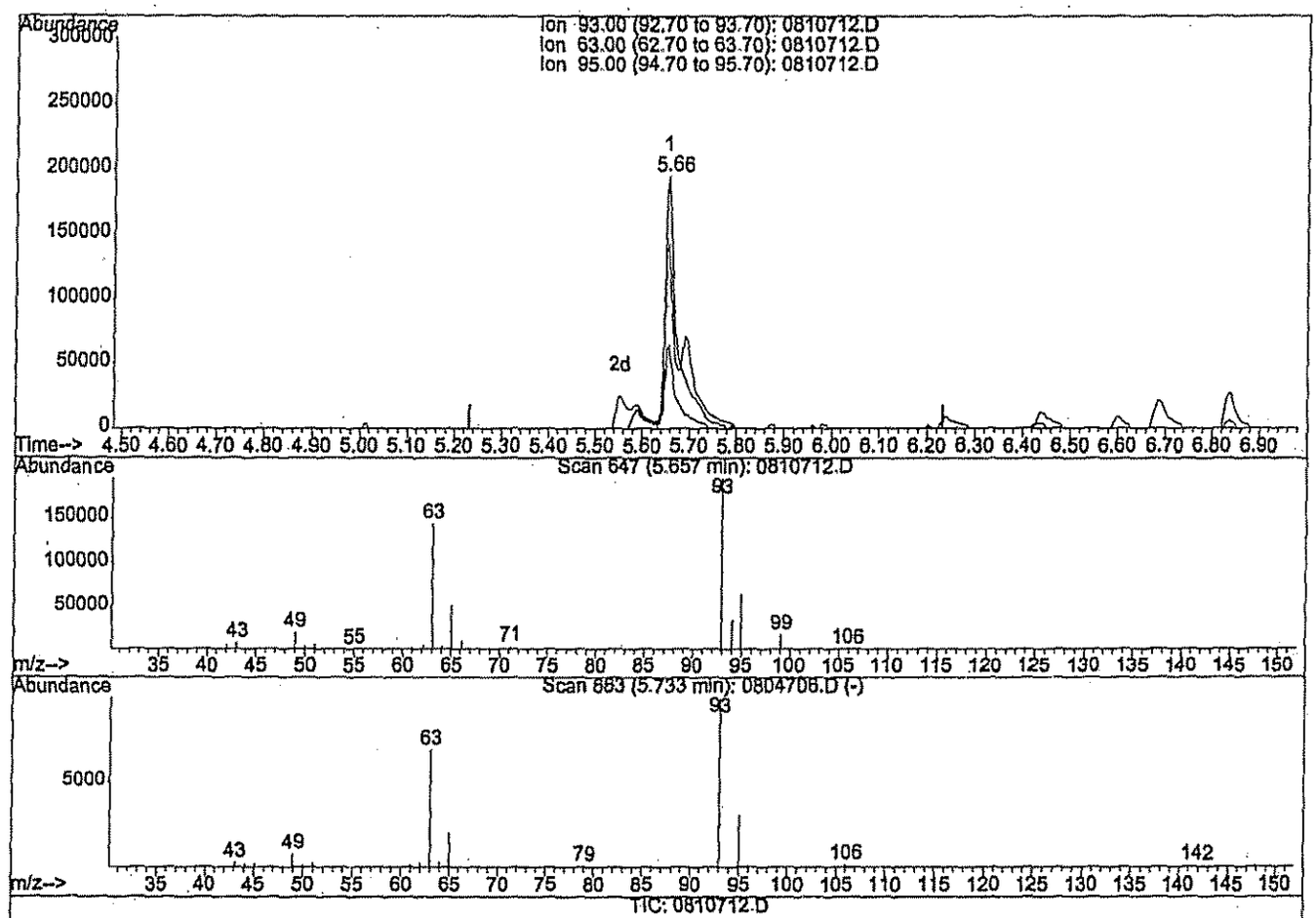
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	73.75
95.00	32.20	32.92
0.00	0.00	0.00

0810712.D 8270.M Thu Aug 11 14:35:03 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810712.D Vial: 12
Acq On : 10 Aug 2005 4:45 pm Operator: MRC
Sample : LCS3409 x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.66min 11.16ug/mL

response 359099

Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.73
95.00	32.20	32.92
0.00	0.00	0.00

0810712.D 8270.M Thu Aug 11 14:34:58 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:44:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 08-11-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	5.97	152	145216	4.00	ug/mL	-0.08
18) Naphthalene-D8	7.86	136	569471	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.61	164	273874	4.00	ug/mL	-0.09
55) Phenanthrene-D10	12.97	188	429579	4.00	ug/mL	-0.09
85) Chrysene-D12	17.18	240	266968	4.00	ug/mL	-0.10
93) Perylene-D12	19.28	264	156944	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.27	112	289147	8.93	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 89.30%			
17) Phenol-d6 (surr)	5.58	99	487320	10.16	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 101.60%			
32) Nitrobenzene-d5 (surr)	6.81	128	188500	10.55	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 105.50%			
53) 2-Fluorobiphenyl (surr)	9.60	172	783343	10.40	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 104.00%			
54) 2,4,6-Tribromophenol (surr	11.89	330	88865	10.52	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 105.20%			
92) 4-Terphenyl-d14 (surr)	15.57	244	657100	10.70	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 107.00%			
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.72	74	199011	10.21	ug/mL	94
4) Phenol	5.60	94	392293m	9.75	ug/mL	
5) Bis(2-chloroethyl)ether	5.66	93	312831m	8.77	ug/mL	
6) 2-Chlorophenol	5.70	128	406875	9.14	ug/mL	99
7) Benzyl Alcohol	6.24	108	251158	9.44	ug/mL	98
8) 1,3-Dichlorobenzene	5.88	146	369633	7.81	ug/mL	97
9) 1,4-Dichlorobenzene	5.99	146	397589	8.02	ug/mL	98
10) 1,2-Dichlorobenzene	6.21	146	373476	8.27	ug/mL	99
11) 2-Methylphenol	6.44	107	309227	9.19	ug/mL	97
12) 3-, 4-Methylphenol	6.69	107	778533	17.06	ug/mL#	89
13) Bis(2-chloroisopropyl)ethe	6.43	45	647814	9.39	ug/mL#	92
14) N-Nitrosodi-n-propylamine	6.64	70	240786	10.27	ug/mL	98
15) Hexachloroethane	6.68	117	123142	7.46	ug/mL	93
19) Nitrobenzene	6.84	77	427169	10.71	ug/mL	99
20) Isophorone	7.21	82	747968	12.10	ug/mL	98
21) 2-Nitrophenol	7.32	139	221465	9.24	ug/mL	99
22) 2,4-Dimethylphenol	7.46	122	254207	7.71	ug/mL	99
23) Benzoic Acid	7.75	122	151787	7.30	ug/mL	98
24) Bis(2-chloroethoxy)methane	7.58	93	463557	10.35	ug/mL	100
25) 2,4-Dichlorophenol	7.71	162	306583	9.76	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:44:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	7.79	180	336258	9.67	ug/mL	98
27) Naphthalene	7.90	128	1171820	10.23	ug/mL	99
28) 4-Chloroaniline	7.89	127	143716	10.12	ug/mL	97
29) Hexachlorobutadiene	8.13	225	165201	9.63	ug/mL	98
30) 4-Chloro-3-methylphenol	8.88	107	315429	9.72	ug/mL	98
31) 2-Methylnaphthalene	8.99	142	797953	9.06	ug/mL	99
34) Hexachlorocyclopentadiene	9.25	237	26142	5.53	ug/mL	99
35) 2,4,6-Trichlorophenol	9.48	196	214569	9.64	ug/mL	95
36) 2,4,5-Trichlorophenol	9.55	196	235595	9.82	ug/mL	95
37) 2-Chloronaphthalene	9.74	162	741226	11.14	ug/mL	98
38) 2-Nitroaniline	9.97	65	199537	11.94	ug/mL	97
39) 3-Nitroaniline	10.95	138	16035	9.90	ug/mL	100
40) 1-Methylnaphthalene	9.13	142	804838	10.25	ug/mL	98
41) Dimethylphthalate	10.30	163	814024	10.79	ug/mL	100
42) Acenaphthylene	10.38	152	1149843	11.33	ug/mL	99
43) 2,6-Dinitrotoluene	10.37	165	180696	11.29	ug/mL	100
44) Acenaphthene	10.67	153	725230	10.71	ug/mL	97
45) 2,4-Dinitrophenol	10.82	184	95295	9.11	ug/mL	92
46) 4-Nitrophenol	11.06	109	56849	9.27	ug/mL	94
47) Dibenzofuran	10.95	168	975623	9.78	ug/mL	99
48) 2,4-Dinitrotoluene	11.02	165	239891	11.21	ug/mL	97
49) Fluorene	11.49	166	811846	11.11	ug/mL	98
50) Diethylphthalate	11.43	149	828385	11.17	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.53	204	369030	10.77	ug/mL	99
52) 4-Nitroaniline	11.66	138	97585	14.45	ug/mL	88
56) 4,6-Dinitro-2-methylphenol	11.65	198	130274	9.43	ug/mL	95
57) Diphenylamine	11.74	169	562739	20.71	ug/mL	98
58) 4-bromophenyl phenyl ether	12.31	248	206022	11.15	ug/mL	98
59) Hexachlorobenzene	12.37	284	207145	10.76	ug/mL	97
60) Pentachlorophenol	12.72	266	83382	7.78	ug/mL	98
61) Phenanthrene	13.00	178	1173169	10.75	ug/mL	99
63) Anthracene	13.09	178	1105473	10.82	ug/mL	99
64) Azobenzene	11.78	77	786070	10.38	ug/mL	99
65) Di-n-Butylphthalate	14.05	149	1415285	11.01	ug/mL	99
66) Fluoranthene	14.89	202	1104867	10.84	ug/mL	99
86) Pyrene	15.24	202	1172667	12.43	ug/mL	98
87) Butylbenzylphthalate	16.42	149	587881	11.00	ug/mL	95
88) Benzo[a]anthracene	17.17	228	796448	9.93	ug/mL	96
89) 3,3'-Dichlorobenzidine	17.20	252	112557	11.88	ug/mL	98
90) Chrysene	17.22	228	829226	11.31	ug/mL	99
91) Bis(2-ethylhexyl)phthalate	17.39	149	776250	10.37	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 17:44:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Di-n-octylphthalate	18.37	149	1084171	11.78	ug/mL	100
95)	Benzo[b]fluoranthene	18.77	252	550783	11.25	ug/mL	100
96)	Benzo[k]fluoranthene	18.81	252	664744	13.08	ug/mL	100
97)	Benzo[a]pyrene	19.21	252	470883	11.73	ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	20.87	276	315887	10.15	ug/mL	100
99)	Dibenzo[a,h]anthracene	20.92	278	241827	10.45	ug/mL	97
100)	Benzo[g,h,i]perylene	21.33	276	300516	10.94	ug/mL	96

(#) = qualifier out of range (m) = manual integration

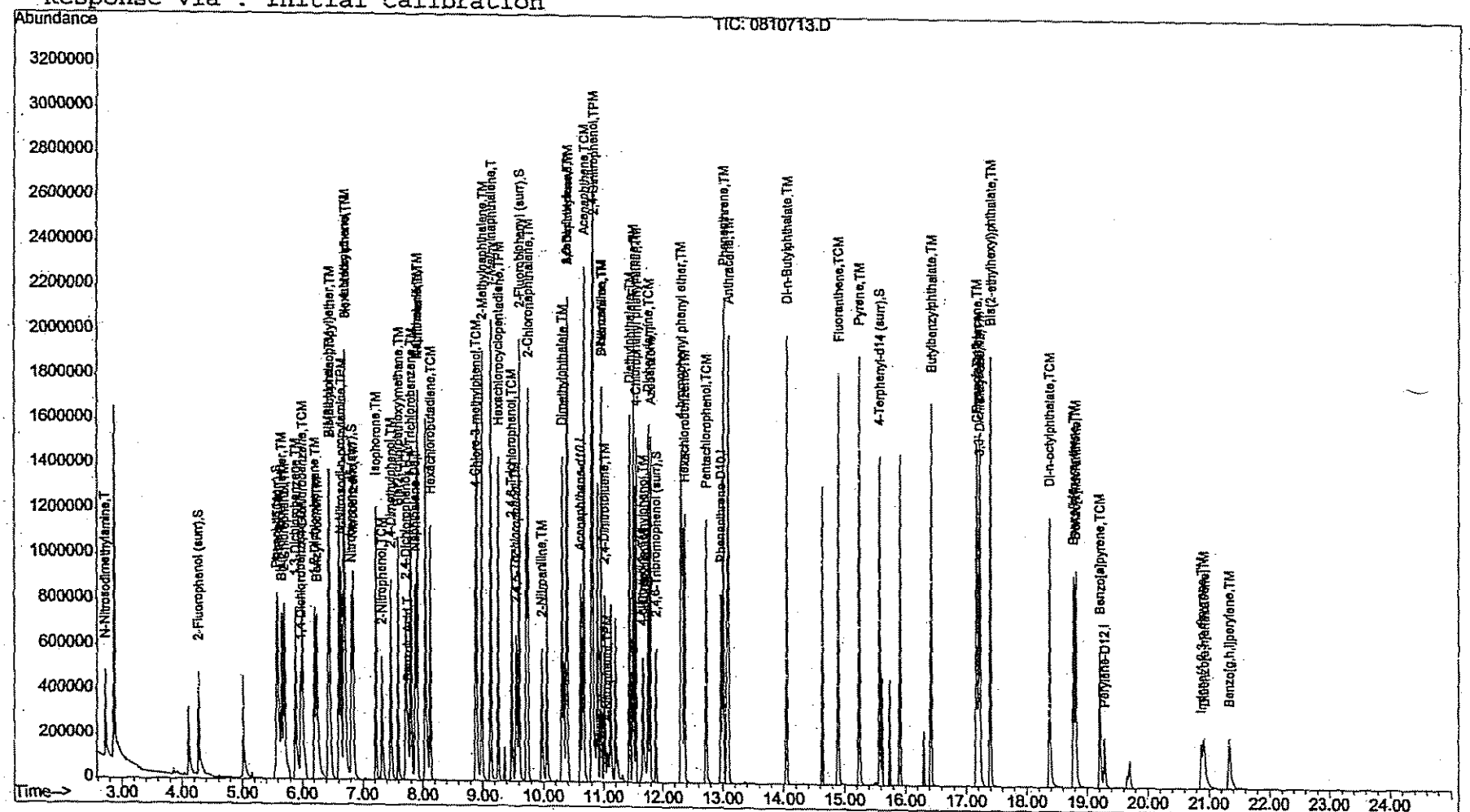
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D
Acq On : 10 Aug 2005 5:19 pm
Sample : G537-162-42F MS x1
Misc : 8270 [3520-3409]
MS Integration Params: rteint.p
Quant Time: Aug 11 14:36 2005

Vial: 13
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



0810713.D 8270.M Thu Aug 11 14:43:39 2005 ENV

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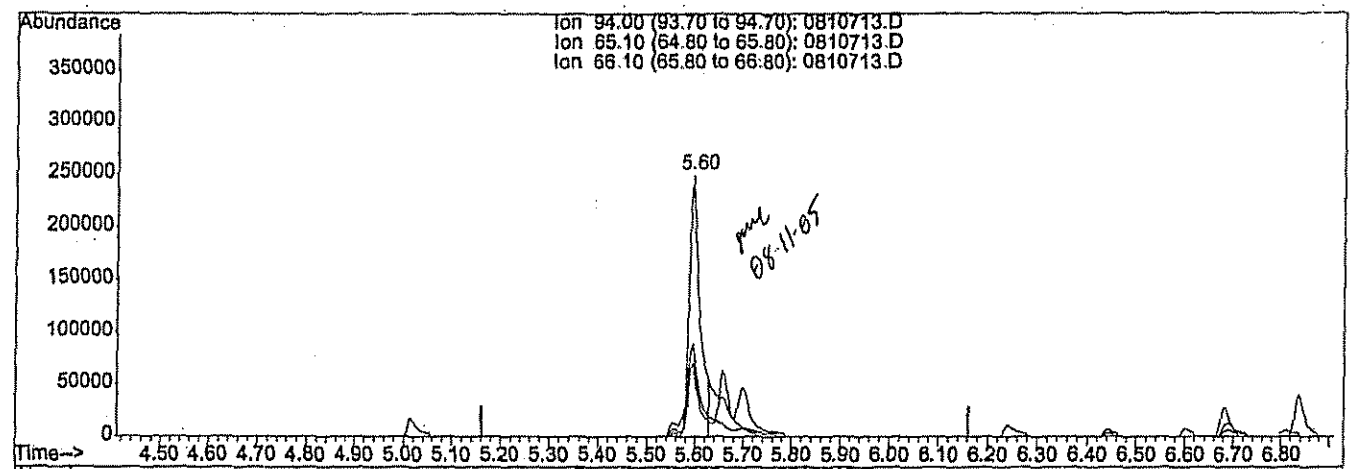
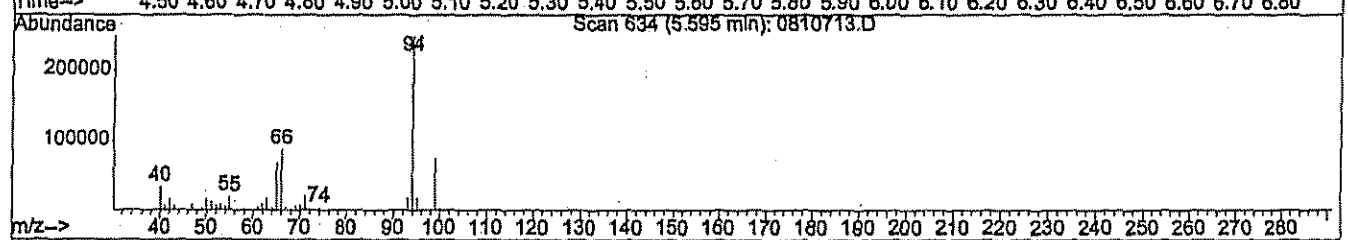
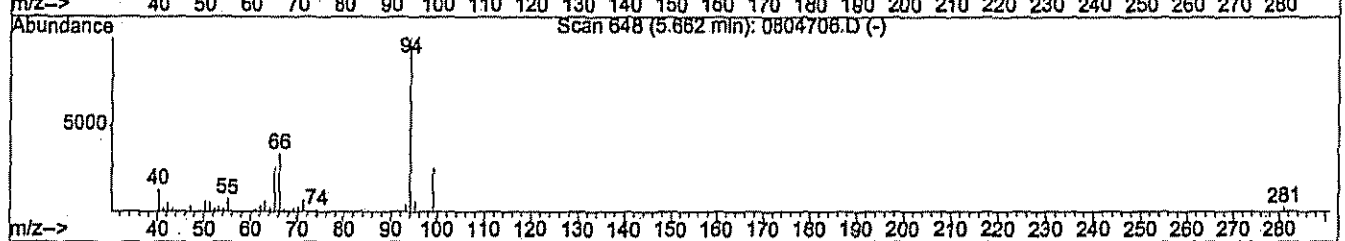
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration







(4) Phenol (TCM)

5.60min 9.75ug/mL m

response 392293

Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.80
66.10	33.90	35.59
0.00	0.00	0.00

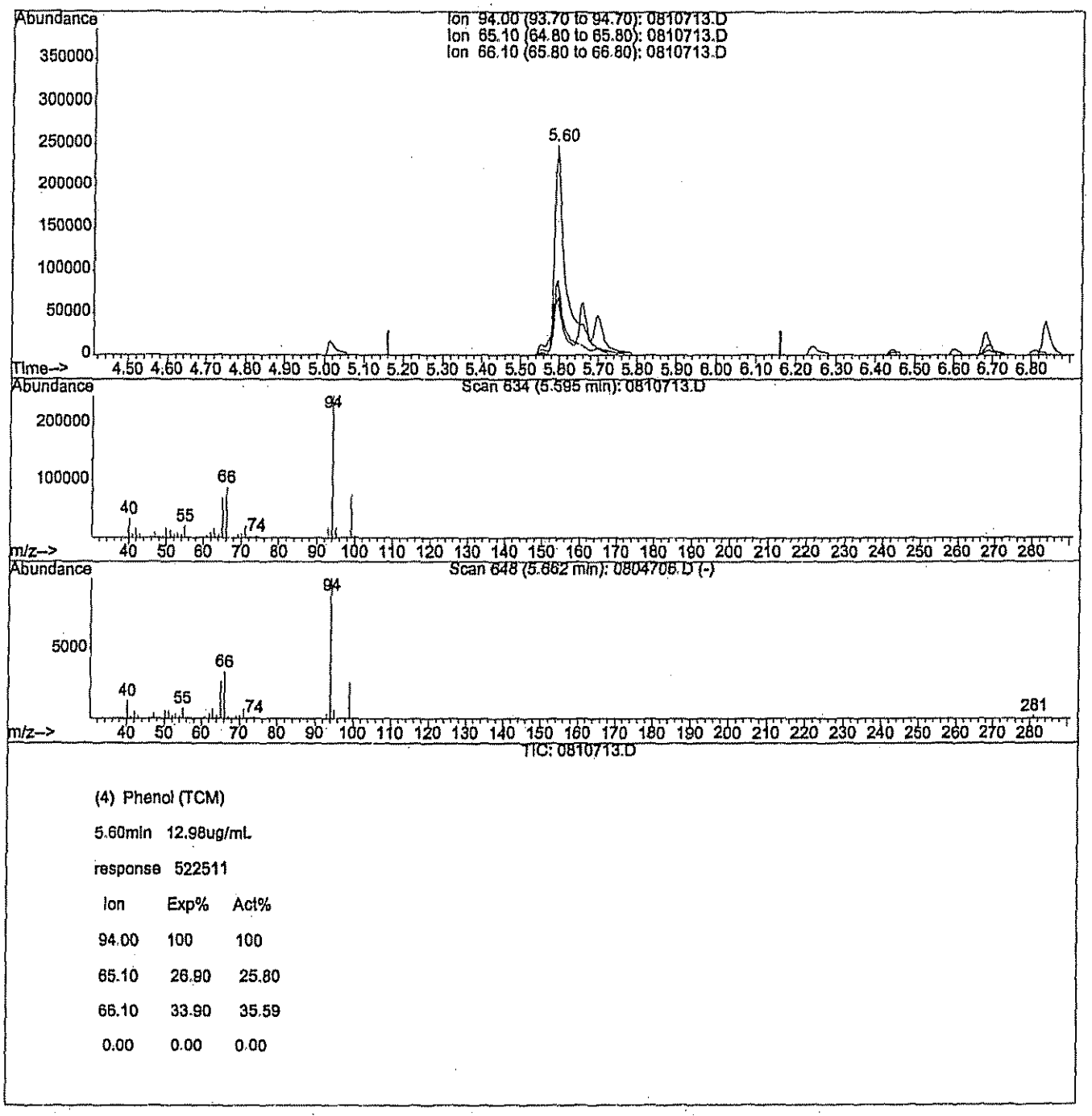
0810713.D 8270.M Thu Aug 11 14:36:06 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D
Acq On : 10 Aug 2005 5:19 pm
Sample : G537-162-42F MS x1
Misc : 8270 [3520-3409]
MS Integration Params: rteint.p
Quant Time: Aug 10 17:44 2005

Vial: 13
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.60min 12.98ug/mL

response 522511

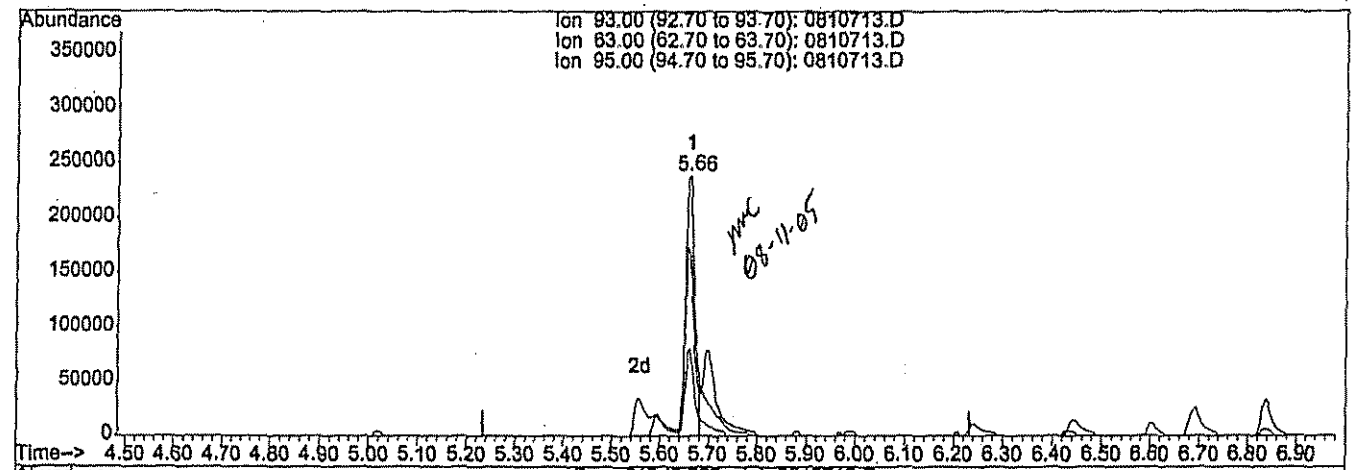
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	25.80
66.10	33.90	35.59
0.00	0.00	0.00

0810713.D 8270.M Thu Aug 11 14:36:00 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



TIC: 0810713.D

(5) Bis(2-chloroethyl)ether (TM)

5.66min 8.77ug/mL m

response 312831

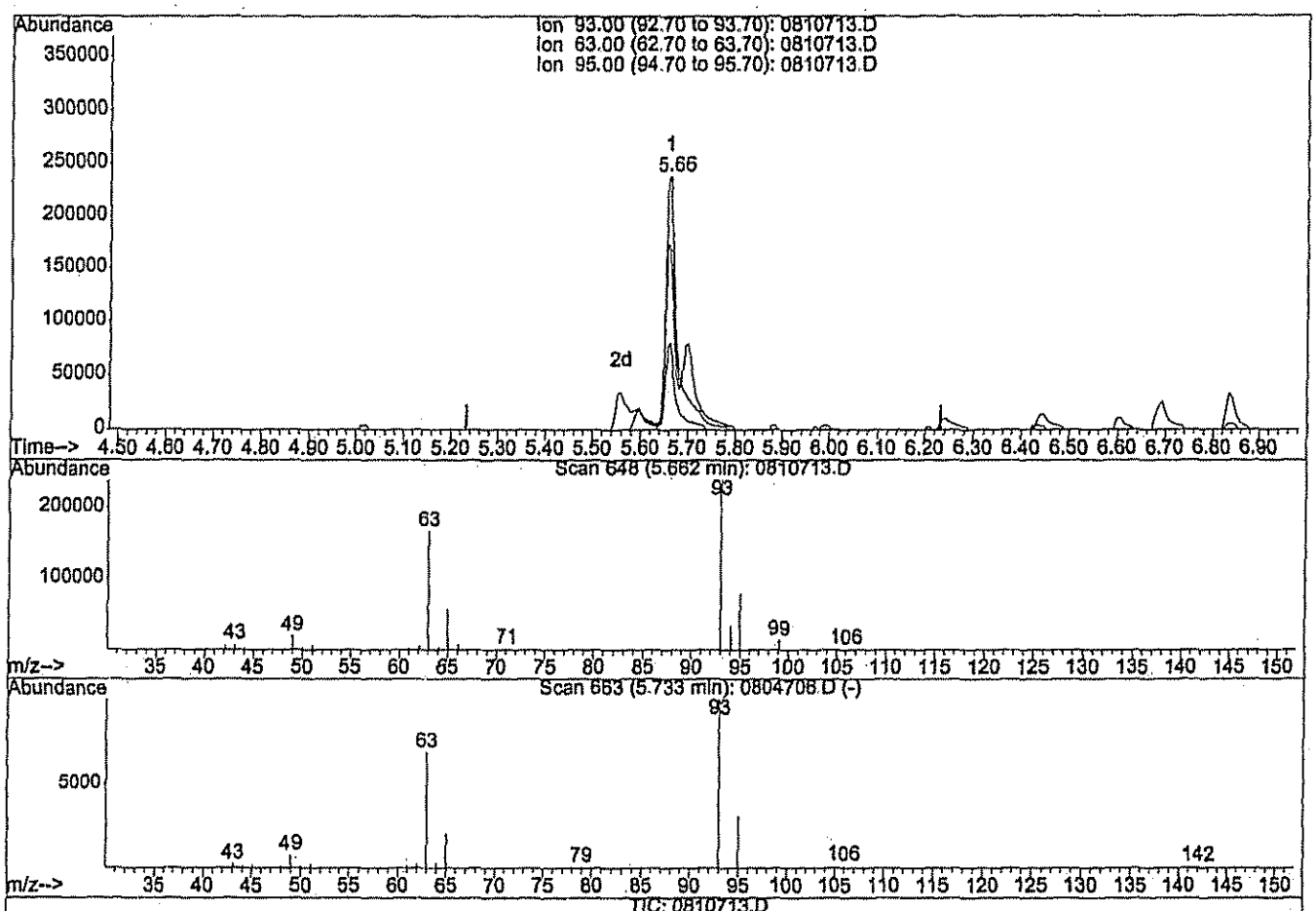
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.20
95.00	32.20	33.47
0.00	0.00	0.00

0810713.D 8270.M Thu Aug 11 14:36:16 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D Vial: 13
Acq On : 10 Aug 2005 5:19 pm Operator: MRC
Sample : G537-162-42F MS x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.66min 11.27ug/mL

response 401970

Ion	Exp%	Act%
93.00	100	100
63.00	70.60	68.84
95.00	32.20	33.47
0.00	0.00	0.00

0810713.D 8270.M Thu Aug 11 14:36:11 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 18:19:17 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 08-11-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	5.97	152	132350	4.00	ug/mL	-0.08
18) Naphthalene-D8	7.86	136	532978	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.61	164	247743	4.00	ug/mL	-0.09
55) Phenanthrene-D10	12.97	188	395575	4.00	ug/mL	-0.09
85) Chrysene-D12	17.18	240	232898	4.00	ug/mL	-0.10
93) Perylene-D12	19.29	264	136304	4.00	ug/mL	-0.09
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.26	112	265541	9.00	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 90.00%			
17) Phenol-d6 (surr)	5.57	99	457103	10.45	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 104.50%			
32) Nitrobenzene-d5 (surr)	6.81	128	179477	10.74	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 107.40%			
53) 2-Fluorobiphenyl (surr)	9.60	172	743022	10.91	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 109.10%			
54) 2,4,6-Tribromophenol (surr	11.89	330	82336	10.78	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 107.80%			
92) 4-Terphenyl-d14 (surr)	15.57	244	592674	11.06	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 110.60%			
Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.71	74	172658	9.72	ug/mL	96
4) Phenol	5.59	94	358649m	9.78	ug/mL	
5) Bis(2-chloroethyl)ether	5.66	93	286132m	8.80	ug/mL	
6) 2-Chlorophenol	5.70	128	380622	9.38	ug/mL	99
7) Benzyl Alcohol	6.24	108	234247	9.66	ug/mL	95
8) 1,3-Dichlorobenzene	5.88	146	358784	8.32	ug/mL	97
9) 1,4-Dichlorobenzene	5.99	146	393500	8.71	ug/mL	100
10) 1,2-Dichlorobenzene	6.20	146	361920	8.79	ug/mL	99
11) 2-Methylphenol	6.44	107	289354	9.43	ug/mL	97
12) 3-, 4-Methylphenol	6.69	107	726893	17.48	ug/mL#	89
13) Bis(2-chloroisopropyl)ethe	6.43	45	610610	9.71	ug/mL	95
14) N-Nitrosodi-n-propylamine	6.64	70	221990	10.39	ug/mL	97
15) Hexachloroethane	6.68	117	121713	8.09	ug/mL	96
19) Nitrobenzene	6.84	77	403885	10.82	ug/mL	99
20) Isophorone	7.21	82	712206	12.31	ug/mL	99
21) 2-Nitrophenol	7.32	139	211346	9.42	ug/mL	98
22) 2,4-Dimethylphenol	7.46	122	235349	7.63	ug/mL	98
23) Benzoic Acid	7.75	122	130851	6.83	ug/mL	94
24) Bis(2-chloroethoxy)methane	7.58	93	433297	10.34	ug/mL	99
25) 2,4-Dichlorophenol	7.71	162	288817	9.82	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 18:19:17 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	7.79	180	321505	9.87	ug/mL	99
27) Naphthalene	7.89	128	1103930	10.30	ug/mL	99
28) 4-Chloroaniline	7.89	127	135620	10.21	ug/mL	97
29) Hexachlorobutadiene	8.13	225	158000	9.84	ug/mL	99
30) 4-Chloro-3-methylphenol	8.88	107	290309	9.56	ug/mL	99
31) 2-Methylnaphthalene	8.99	142	743417	9.02	ug/mL	98
34) Hexachlorocyclopentadiene	9.25	237	18873	4.83	ug/mL	100
35) 2,4,6-Trichlorophenol	9.48	196	201522	10.01	ug/mL	95
36) 2,4,5-Trichlorophenol	9.55	196	220463	10.16	ug/mL	96
37) 2-Chloronaphthalene	9.74	162	928116	15.43	ug/mL	99
38) 2-Nitroaniline	9.97	65	185581	12.27	ug/mL	96
39) 3-Nitroaniline	10.95	138	14922	10.18	ug/mL	100
40) 1-Methylnaphthalene	9.13	142	733501	10.33	ug/mL	100
41) Dimethylphthalate	10.30	163	756434	11.08	ug/mL	100
42) Acenaphthylene	10.38	152	1067485	11.63	ug/mL	100
43) 2,6-Dinitrotoluene	10.37	165	168985	11.67	ug/mL	98
44) Acenaphthene	10.66	153	674805	11.02	ug/mL	98
45) 2,4-Dinitrophenol	10.82	184	85203	9.01	ug/mL	96
46) 4-Nitrophenol	11.06	109	47997	8.76	ug/mL	95
47) Dibenzofuran	10.95	168	910360	10.09	ug/mL	99
48) 2,4-Dinitrotoluene	11.01	165	224210	11.59	ug/mL	100
49) Fluorene	11.49	166	759013	11.48	ug/mL	100
50) Diethylphthalate	11.43	149	772696	11.51	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.53	204	347637	11.21	ug/mL	98
52) 4-Nitroaniline	11.65	138	83646	13.78	ug/mL#	65
56) 4,6-Dinitro-2-methylphenol	11.65	198	116049	9.14	ug/mL	99
57) Diphenylamine	11.74	169	526649	21.05	ug/mL	99
58) 4-bromophenyl phenyl ether	12.30	248	193603	11.38	ug/mL	97
59) Hexachlorobenzene	12.37	284	194538	10.97	ug/mL	96
60) Pentachlorophenol	12.72	266	75257	7.64	ug/mL	97
61) Phenanthrene	13.00	178	1088072	10.83	ug/mL	99
63) Anthracene	13.09	178	1022510	10.87	ug/mL	100
64) Azobenzene	11.78	77	728333	10.44	ug/mL	99
65) Di-n-Butylphthalate	14.05	149	1329039	11.23	ug/mL	100
66) Fluoranthene	14.89	202	1001435	10.67	ug/mL	99
86) Pyrene	15.24	202	1074834	13.06	ug/mL	99
87) Butylbenzylphthalate	16.42	149	540095	11.58	ug/mL	97
88) Benzo[a]anthracene	17.17	228	702740	10.04	ug/mL	95
89) 3,3'-Dichlorobenzidine	17.20	252	95742	11.59	ug/mL	93
90) Chrysene	17.22	228	739574	11.56	ug/mL	99
91) Bis(2-ethylhexyl)phthalate	17.39	149	719886	11.03	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 18:19:17 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	18.37	149	968066	12.11 ug/mL	100
95)	Benzo[b]fluoranthene	18.77	252	477704	11.23 ug/mL	99
96)	Benzo[k]fluoranthene	18.81	252	607175	13.75 ug/mL	99
97)	Benzo[a]pyrene	19.21	252	406927	11.67 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	20.87	276	281004	10.40 ug/mL	96
99)	Dibenzo[a,h]anthracene	20.92	278	213179	10.61 ug/mL	96
100)	Benzo[g,h,i]perylene	21.34	276	266229	11.16 ug/mL	95

(#) = qualifier out of range (m) = manual integration

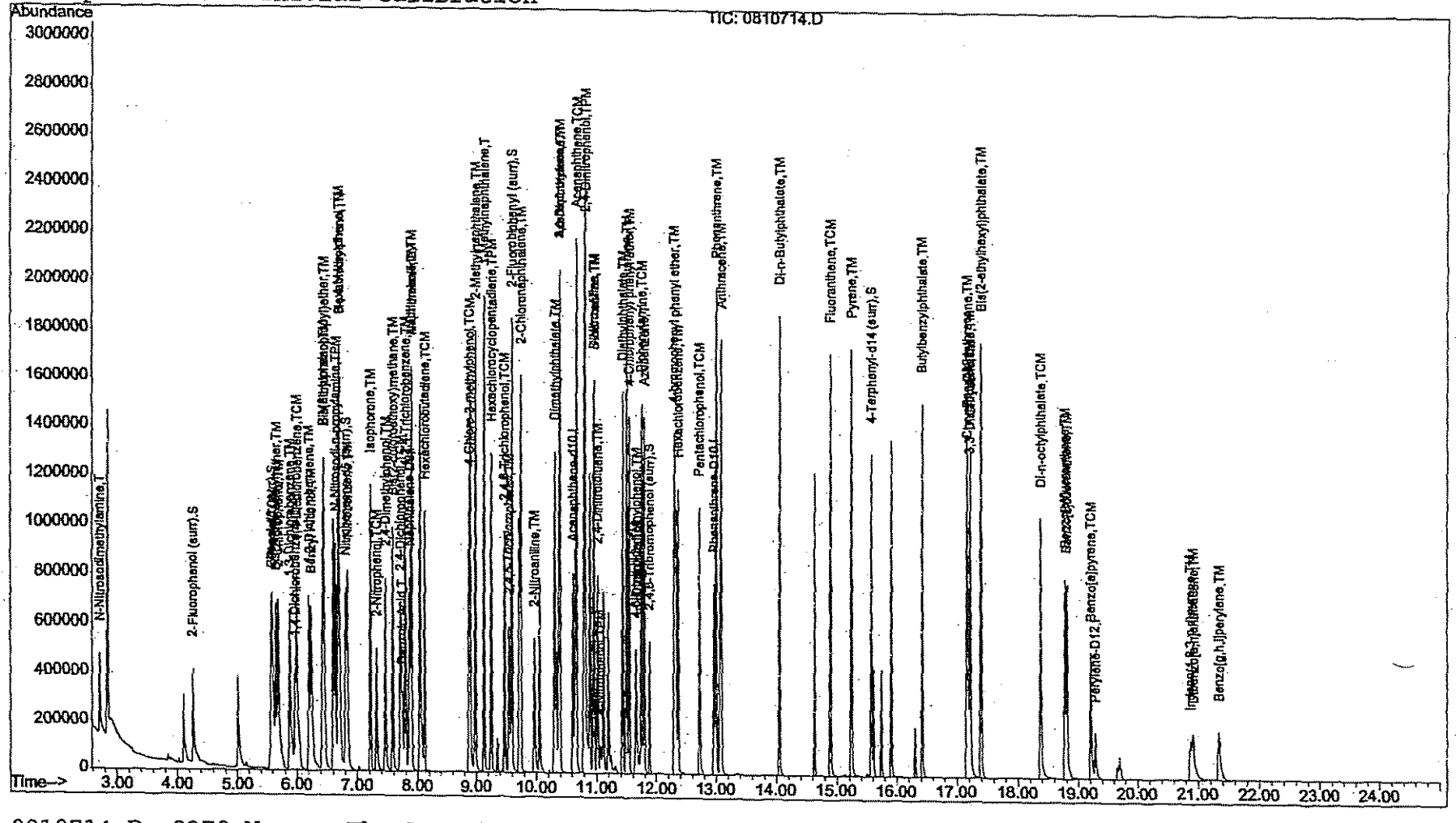
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D
Acq On : 10 Aug 2005 5:54 pm
Sample : G537-162-42G MSD x1
Misc : 8270 [3520-3409]
MS Integration Params: rteint.p
Quant Time: Aug 11 14:37 2005

Vial: 14
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



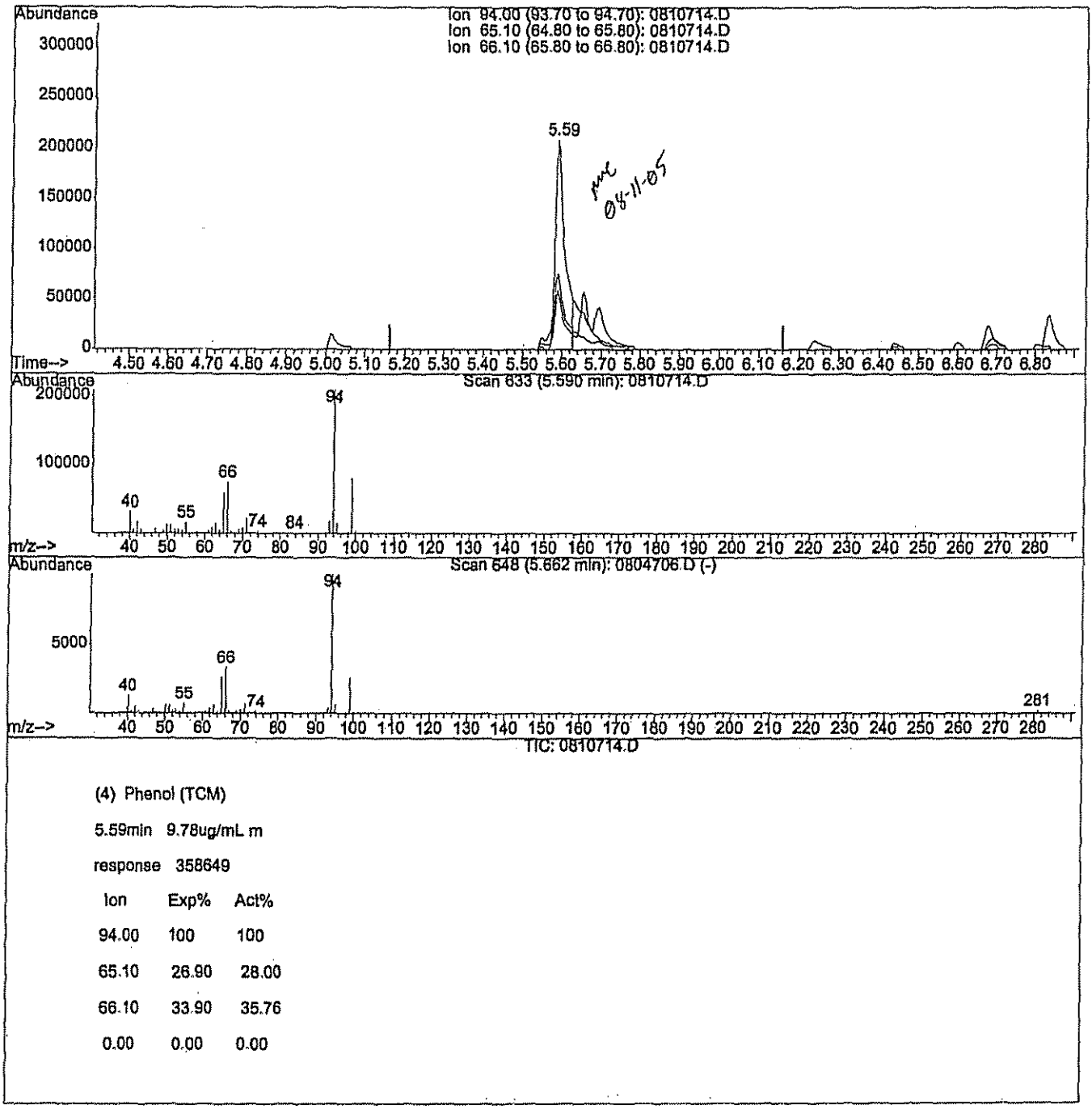
0810714.D 8270.M Thu Aug 11 14:43:43 2005 ENV

Page 4

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:37 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.59min 9.78ug/mL m

response 358649

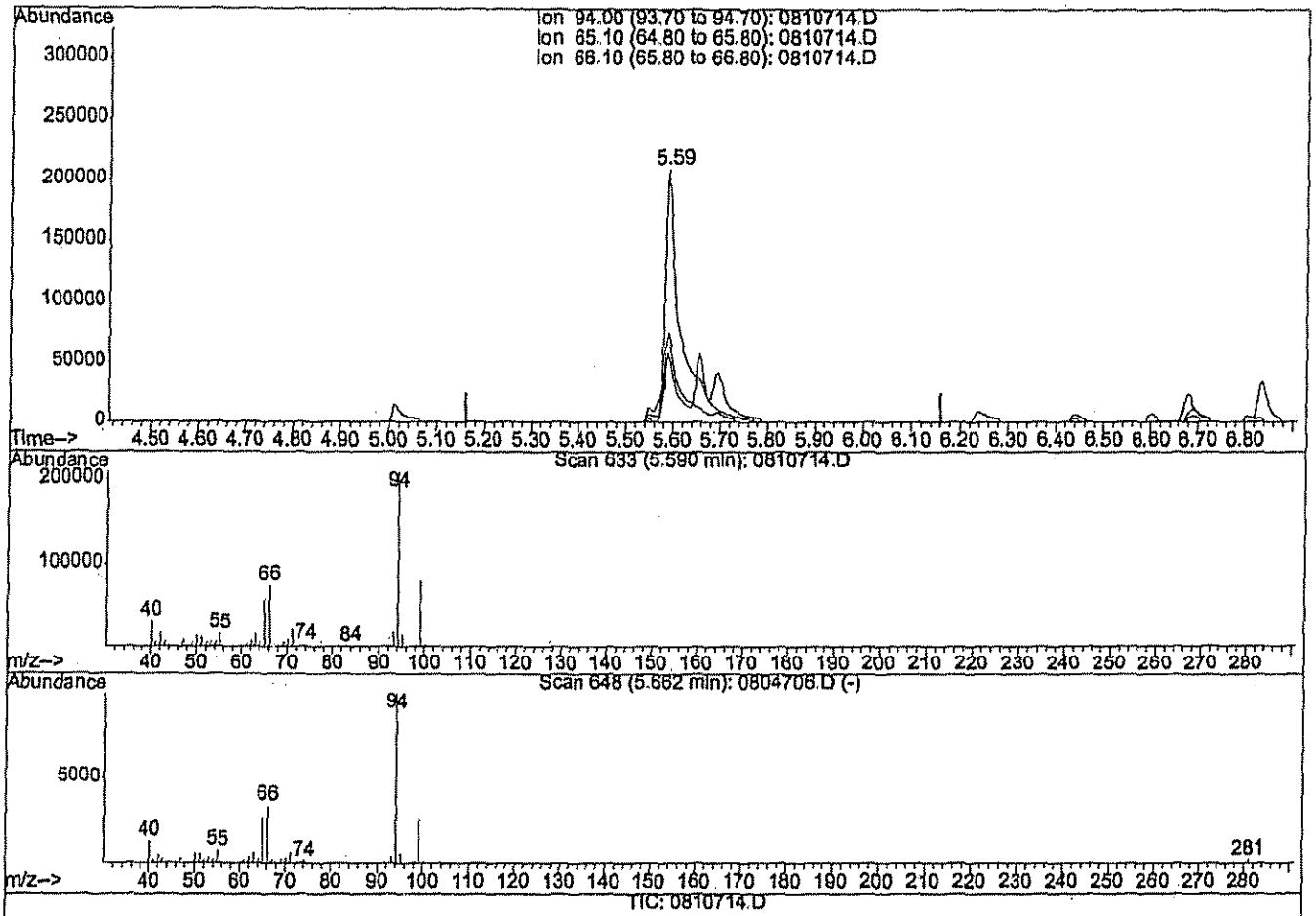
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	28.00
66.10	33.90	35.76
0.00	0.00	0.00

0810714.D 8270.M Thu Aug 11 14:37:16 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 10 18:19 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(4) Phenol (TCM)

5.59min 13.37ug/mL

response 490393

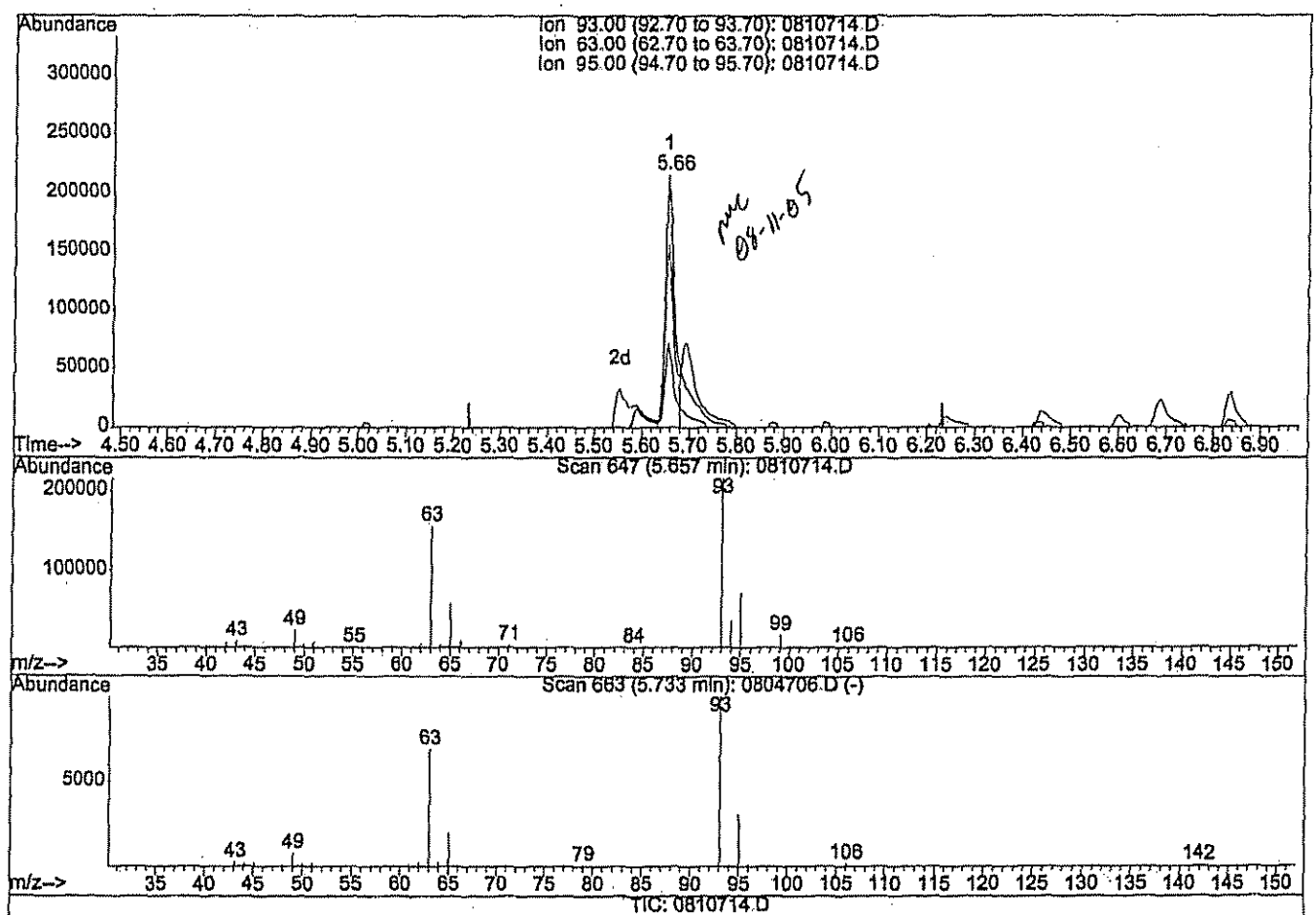
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.07
66.10	33.90	35.76
0.00	0.00	0.00

0810714.D 8270.M Thu Aug 11 14:37:03 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:37 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.66min 8.80ug/mL m

response 286132

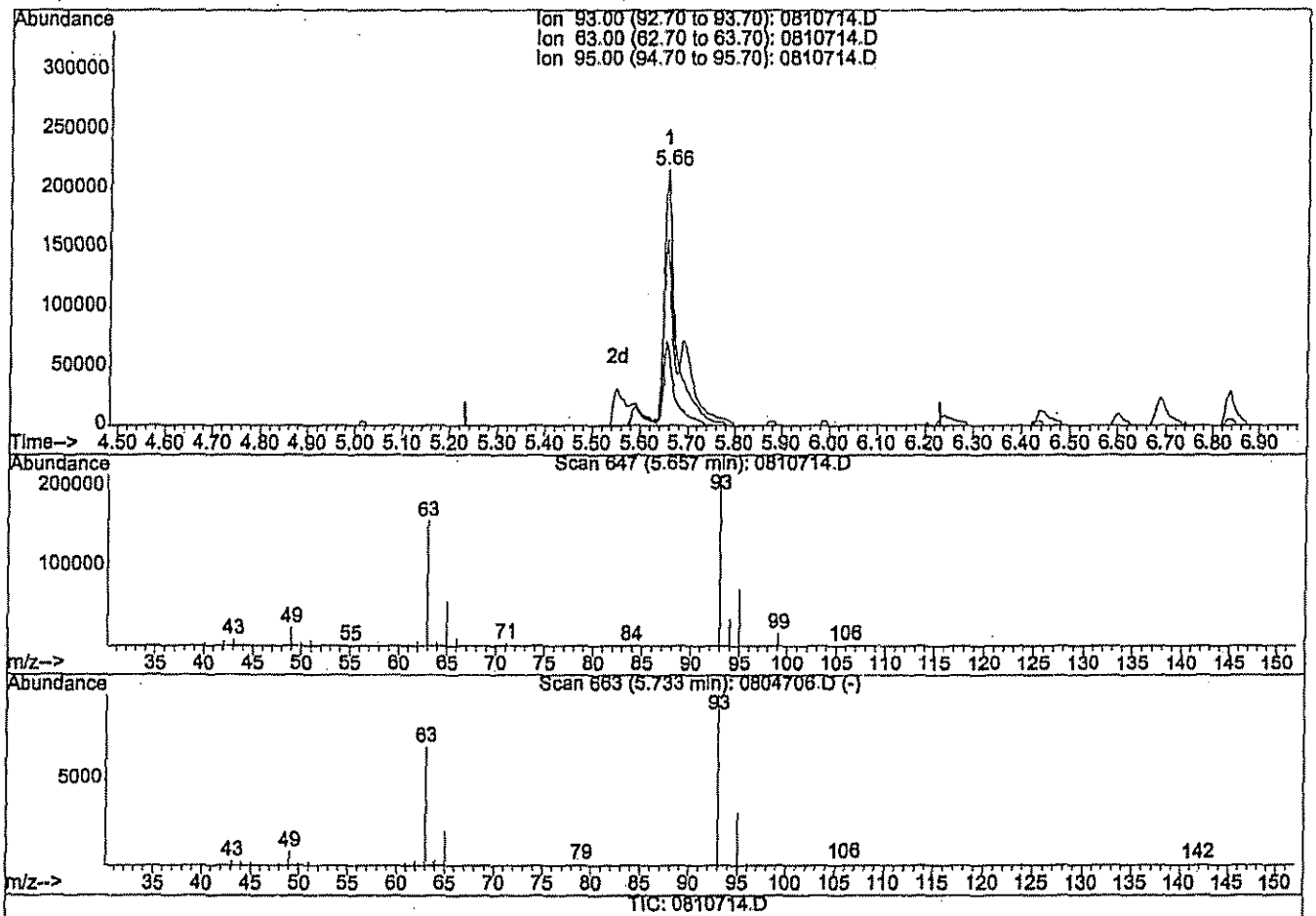
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	72.57
95.00	32.20	33.04
0.00	0.00	0.00

0810714.D 8270.M Thu Aug 11 14:37:26 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810714.D Vial: 14
Acq On : 10 Aug 2005 5:54 pm Operator: MRC
Sample : G537-162-42G MSD x1 Inst : MSD7
Misc : 8270 [3520-3409] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 11 14:37 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

5.66min 11.52ug/mL

response 374683

Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.90
95.00	32.20	33.04
0.00	0.00	0.00

0810714.D 8270.M Thu Aug 11 14:37:19 2005 ENV

625-BN Prep, Standard, Run Logs

3520 / 8270 WATER Log

Paradigm Analytical Lab

Batch: 3520/8270 - 3409

Lab ID	EXT	Date	CH2Cl2 Lot #	Initial Vol (mL)	Spike ID	Spike Vol (mL)	Final Vol (mL)	Tech's Init
pb3409	pb	2005-08-09	co493	500	SR: 8270srsvo3w20d	SR: .5	5	nio
G537-162-42G	msd	2005-08-09	co493	233	QC: 8270svmso1w14s SR: 8270srsvo3w20d	QC: .5 SR: .5	5	nio
G537-162-42F	ms	2005-08-09	co493	233	QC: 8270svmso1w14s SR: 8270srsvo3w20d	QC: .5 SR: .5	5	nio
lcs3409	lcs	2005-08-09	co493	500	QC: 8270svmso1w14s SR: 8270srsvo3w20d	QC: .5 SR: .5	5	nio
G537-162-43F	dup	2005-08-09	co493	500	SR: 8270srsvo3w20d	SR: .5	5	nio
G537-162-42E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-43E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G161-2102-3F		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-9P		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-16O		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-23N		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-30N		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-37N		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G414-63-44N		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G211-1841-2H		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G211-1841-4H		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G161-2103-1M		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G161-2104-1N		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G161-2105-1J		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-46E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-47E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-48E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-49E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-50E		2005-08-09	co493	500	8270srsvo3w20d	.5	5	nio
G537-162-51E		2005-08-09	co493	500	8270srsvo3w20b	.5	5	nio

Comments: _____

_____

Technician's Signature: _____ Date: _____

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6072105

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0721601.D	DFTPP 50ng	7/21/2005 8:54	OK			MRC	
0721602.D	SVCAL1	7/21/2005 9:18				MRC	
0721603.D	SVCAL2	7/21/2005 9:52				MRC	
0721604.D	SVCAL4	7/21/2005 10:25				MRC	
0721605.D	SVCAL6	7/21/2005 11:00	8270			MRC	
0721606.D	SVCAL8	7/21/2005 11:34	GOOD			MRC	
0721607.D	SVCAL12	7/21/2005 12:08				MRC	
0721608.D	SVCAL24	7/21/2005 12:42				MRC	
0721609.D	SVCAL48	7/21/2005 13:16				MRC	
0721611.D	DFTPP 50ng	7/21/2005 14:14	OK			MRC	
0721612.D	SVCVS8	7/21/2005 14:36	OK			MRC	
0721613.D	SVCVS24	7/21/2005 15:11	OK			MRC	
0721614.D	PB3011 x1	7/21/2005 15:45		OK		MRC	
0721615.D	PB3152 x1	7/21/2005 16:19				MRC	
0721616.D	G414-52-1B x1	7/21/2005 16:53			NO	MRC	
0721617.D	G414-52-2B x1	7/21/2005 17:27				MRC	
0721618.D	G414-52-1F x1	7/21/2005 18:01			OK	MRC	
0721619.D	G414-52-2F x1	7/21/2005 18:36			NO	MRC	
0721620.D	PB3275 x1	7/21/2005 19:09			OK	MRC	
0721621.D	LCS3275 x1	7/21/2005 19:43				MRC	

Analyst: MRC

Page Number: 1901

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7080405
Batch: 7080405

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0804701.D	DFTPP 50ng	8/4/2005 8:20	OK			MRC	
0804702.D	SVCAL01	8/4/2005 9:01				MRC	
0804703.D	SVCAL02	8/4/2005 9:37				MRC	
0804704.D	SVCAL04	8/4/2005 10:11	8270			MRC	
0804705.D	SVCAL06	8/4/2005 11:25	CURVE			MRC	
0804706.D	SVCAL08	8/4/2005 12:00				MRC	
0804707.D	SVCAL12	8/4/2005 12:34				MRC	
0804708.D	SVCAL24	8/4/2005 13:08				MRC	
0804709.D	SVCAL48	8/4/2005 13:42				MRC	
0804711.D	DFTPP 50ng	8/4/2005 14:11	OK			MRC	
0804712.D	SVCVS06	8/4/2005 14:35	OK			MRC	
0804713.D	PB3321 x1	8/4/2005 15:09		OK	OK	MRC	
0804714.D	LCS3321 x1	8/4/2005 15:42				MRC	
0804715.D	G128-1569-7F MS x1	8/4/2005 16:17				MRC	
0804716.D	G128-1569-7G MSD x1	8/4/2005 16:50				MRC	
0804717.D	G414-59-3I x1	8/4/2005 17:24	DILP			MRC	CONFIRMS
0804718.D	G414-59-1H x1	8/4/2005 17:58				MRC	
0804719.D	G414-59-2J x1	8/4/2005 18:33				MRC	
0804720.D	G414-59-3H x1	8/4/2005 19:07			No	MRC	Rex
0804721.D	G414-59-4H x1	8/4/2005 19:42			OK	MRC	

Analyst: MC

Page Number: 1407

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7080405
Batch: 7081005

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0810701.D	DFTPP 50ng	8/10/2005 10:41	OK			MRC	
0810702.D	SVCVS6	8/10/2005 11:04	OK			MRC	
0810703.D	SVCVS24	8/10/2005 11:39	OK			MRC	
0810704.D	G161-2106-2H x1	8/10/2005 12:13		OK	OK	MRC	
0810705.D	G161-2106-3H x1	8/10/2005 12:46				MRC	
0810706.D	G161-2106-4H x1	8/10/2005 13:21				MRC	
0810707.D	G161-2106-5I x1	8/10/2005 13:56				MRC	
0810708.D	G161-2106-6H x1	8/10/2005 14:30				MRC	
0810709.D	G211-1841-2H x1	8/10/2005 15:04				MRC	
0810710.D	G211-1841-4H x1	8/10/2005 15:38				MRC	
0810711.D	PB3409 x1	8/10/2005 16:12				MRC	
0810712.D	LCS3409 x1	8/10/2005 16:45				MRC	
0810713.D	G537-162-42F MS x1	8/10/2005 17:19				MRC	
0810714.D	G537-162-42G MSD x1	8/10/2005 17:54				MRC	
0810715.D	G414-63-9P x1	8/10/2005 18:27				MRC	
0810716.D	G414-63-16O x1	8/10/2005 19:01				MRC	
0810717.D	G414-63-23N x1	8/10/2005 19:35				MRC	
0810718.D	G414-63-30N x1	8/10/2005 20:09				MRC	
0810719.D	G414-63-37N x1	8/10/2005 20:42				MRC	
0810720.D	G414-63-44N x1	8/10/2005 21:16				MRC	

Analyst: MRC

Page Number: 1417

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6072105
Batch ID: 6081205

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID & DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0812601.D	DFTPP 50ng	8/12/2005 7:54	OK			MRC	
0812602.D	SVCVS6	8/12/2005 8:17	OK			MRC	
0812603.D	SVCVS24	8/12/2005 8:52	OK			MRC	
0812604.D	G537-162-42E x1	8/12/2005 9:25		OK	OK	MRC	
0812605.D	G161-2103-1M x1	8/12/2005 10:00				MRC	
0812606.D	PB3411 x1	8/12/2005 10:34				MRC	
0812607.D	LCS3411 x1	8/12/2005 11:07				MRC	
0812608.D	G161-2106-5J MS x1	8/12/2005 11:42				MRC	
0812609.D	G161-2106-5K MSD x1	8/12/2005 12:16				MRC	
0812610.D	PB3423 x1	8/12/2005 12:50				MRC	
0812611.D	LCS3423 x1	8/12/2005 13:24				MRC	
0812612.D	G510-240-1I MS x1	8/12/2005 13:58				MRC	
0812613.D	G510-240-1J MSD x1	8/12/2005 14:31				MRC	
0812614.D							

Analyst: mc

Page Number: 1925

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

VPH Sample Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\025F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2103-1e x1
an Time Bar Code:
cquired on : 08 Aug 05 07:53 PM
eport Created on: 09 Aug 05 08:35 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

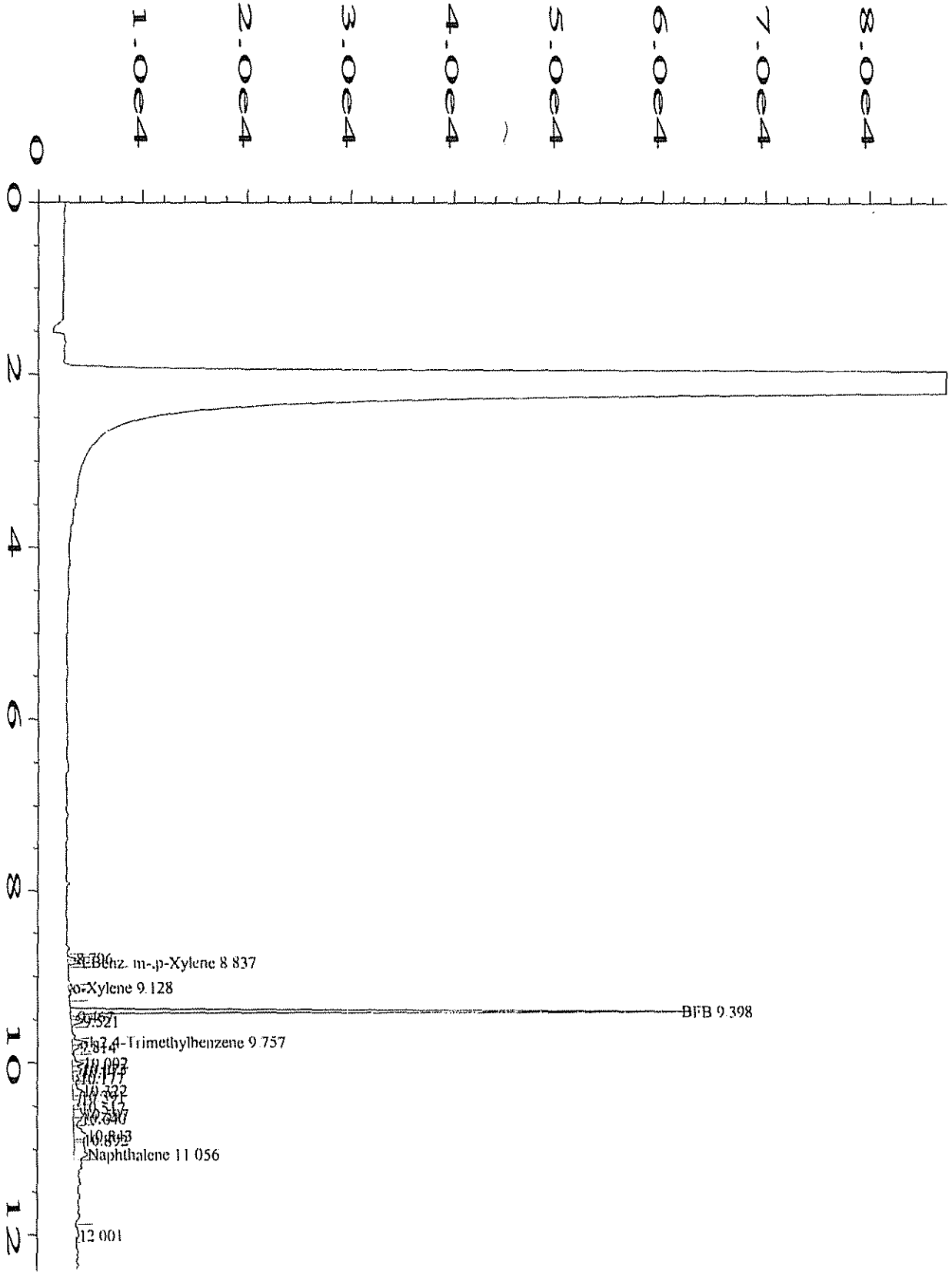
Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080805\025F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	* not found *			1		Toluene
8.684	* not found *			1		n-Nonane
8.837	2713	VV	0.033	1	0.265	EBenz, m-,p-Xylene
9.128	1227	VV	0.045	1	0.122	o-Xylene
9.398	107868	PV	0.028	1	415.506	BFB
9.757	3782	VV	0.038	1	0.402	1,2,4-Trimethylbenzene
11.056	12056	VV	0.119	1	2.845	Naphthalene
8.796	1650	PV	0.030		16.503	* uncalibrated *
9.467	1135	VV	0.030		11.350	* uncalibrated *
9.521	3296	VB	0.043		32.958	* uncalibrated *
9.814	2327	VV	0.058		23.273	* uncalibrated *
10.002	2762	VV	0.039		27.621	* uncalibrated *
10.073	2566	VV	0.041		25.661	* uncalibrated *
10.111	1957	VV	0.043		19.572	* uncalibrated *
10.177	1586	VV	0.037		15.865	* uncalibrated *
10.322	4873	VV	0.068		48.728	* uncalibrated *
10.391	1901	VV	0.045		19.006	* uncalibrated *
10.517	1767	VV	0.043		17.675	* uncalibrated *
10.597	4693	VV	0.067		46.927	* uncalibrated *
10.640	2819	VV	0.060		28.186	* uncalibrated *
10.843	8365	VV	0.084		83.652	* uncalibrated *
10.892	1792	VV	0.033		17.922	* uncalibrated *
12.001	1895	VV	0.082		18.954	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



Data File Name : C:\HPCHEM\1\DATA\vp080805\025F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : g161-2103-1e x1
Run Time Bar Code:
Acquired on : 08 Aug 05 07:53 PM
Report Created on: 09 Aug 05 08:35 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\025R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2103-1e x1
un Time Bar Code:
cquired on : 08 Aug 05 07:53 PM
eport Created on: 09 Aug 05 08:35 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080805\025R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.591	2343	BB	0.068	1	0.0294	Benzene
7.919	1634	PB	0.041	1	0.0401	Toluene
8.686	* not found *			1		n-Nonane
8.837	5370	VV	0.034	1	0.159	ethbzene/m,p-xylene
9.078	1414	BV	0.042	1	0.0365	o-Xylene
9.400	504844	BV	0.032	1	33.978	BFB(pid)
9.758	6088	VV	0.039	1	0.198	1,2,4-Trimethylbenzene
11.205	3536	VV	0.039	1	0.202	Naphthalene(pid)
1.641	1532	PB	0.043		15.315	* uncalibrated *
2.062	75192	BV	0.082		751.919	* uncalibrated *
8.797	2556	PV	0.029		25.562	* uncalibrated *
9.125	670	VV	0.037		6.705	* uncalibrated *
9.521	8774	VV	0.053		87.741	* uncalibrated *
9.690	2519	VV	0.054		25.194	* uncalibrated *
9.812	2446	VV	0.046		24.461	* uncalibrated *
9.947	2480	VV	0.051		24.800	* uncalibrated *
10.005	4559	VV	0.043		45.589	* uncalibrated *
10.074	3607	VV	0.039		36.071	* uncalibrated *
10.111	3379	VV	0.039		33.786	* uncalibrated *
10.177	3546	VV	0.050		35.464	* uncalibrated *
10.322	3135	VV	0.038		31.348	* uncalibrated *
10.444	7727	VV	0.085		77.273	* uncalibrated *
10.516	2921	VV	0.041		29.206	* uncalibrated *
10.594	5234	VV	0.061		52.339	* uncalibrated *
10.644	4162	VV	0.055		41.621	* uncalibrated *
10.764	3185	VV	0.049		31.852	* uncalibrated *
10.845	9291	VV	0.069		92.910	* uncalibrated *
10.981	10416	VV	0.091		104.156	* uncalibrated *
11.061	9205	VV	0.072		92.047	* uncalibrated *
11.400	3240	VV	0.057		32.404	* uncalibrated *
11.559	3954	VV	0.075		39.537	* uncalibrated *
11.762	2917	VV	0.062		29.170	* uncalibrated *
11.985	2962	VV	0.095		29.622	* uncalibrated *
12.202	878	BV	0.047		8.782	* uncalibrated *
12.258	986	VV	0.048		9.864	* uncalibrated *
12.351	1247	VBA	0.040		12.474	* uncalibrated *

ata File Name	: C:\HPCHEM\1\DATA\vp080805\025R0101.D		
perator	: DCS	Page Number	: 2
nstrument	: FID/PID	Vial Number	: 25
ample Name	: g161-2103-1e x1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 07:53 PM	Instrument Method:	GAS1.MTH
eport Created on:	09 Aug 05 08:35 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ot all calibrated peaks were found

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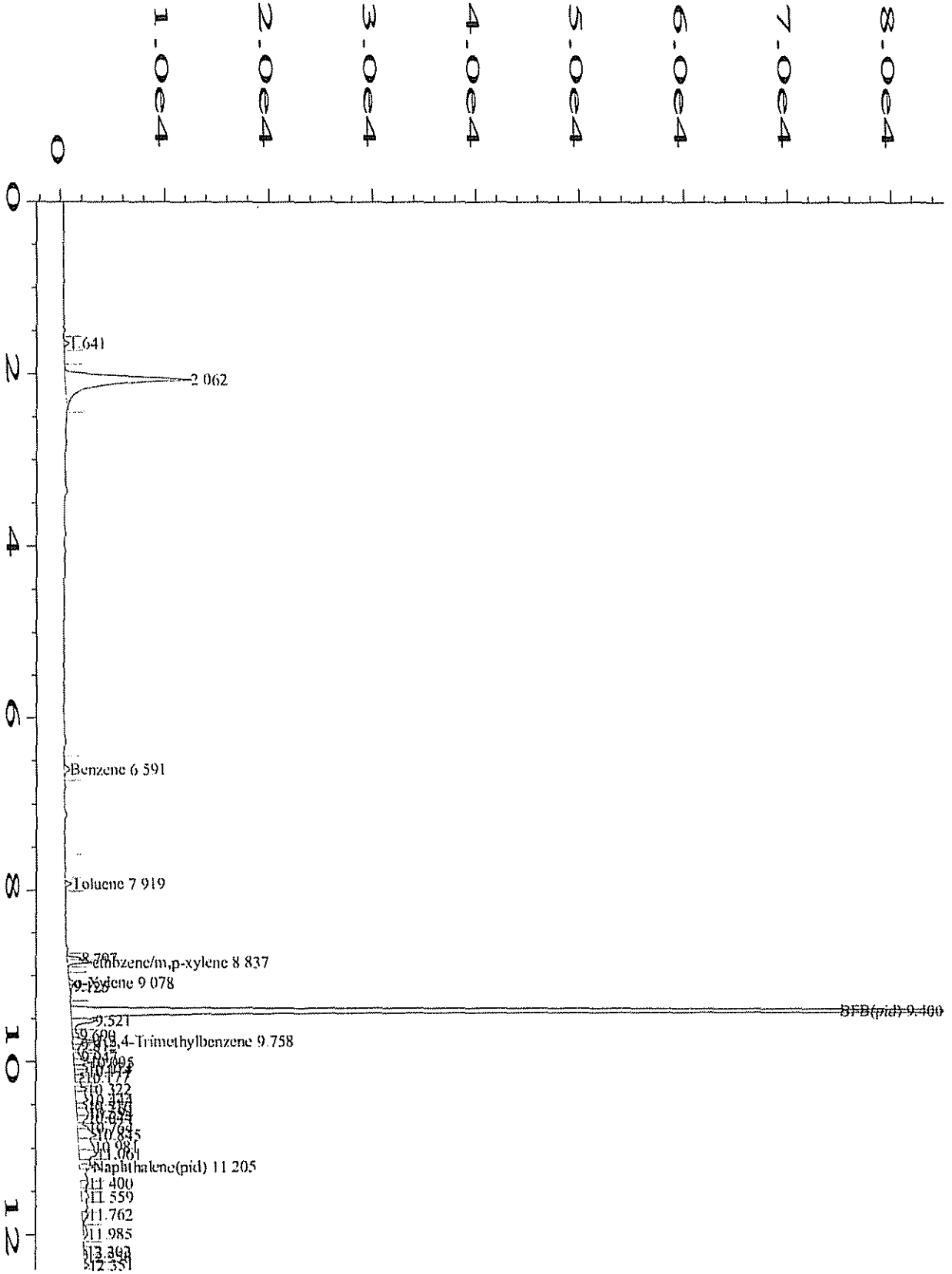


Data File Name	: C:\HPCHEM\1\DATA\vp080805\025R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 25
Sample Name	: g161-2103-1e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Aug 05 07:53 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Aug 05 08:35 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH Calibration Raw Data

External Standard Report

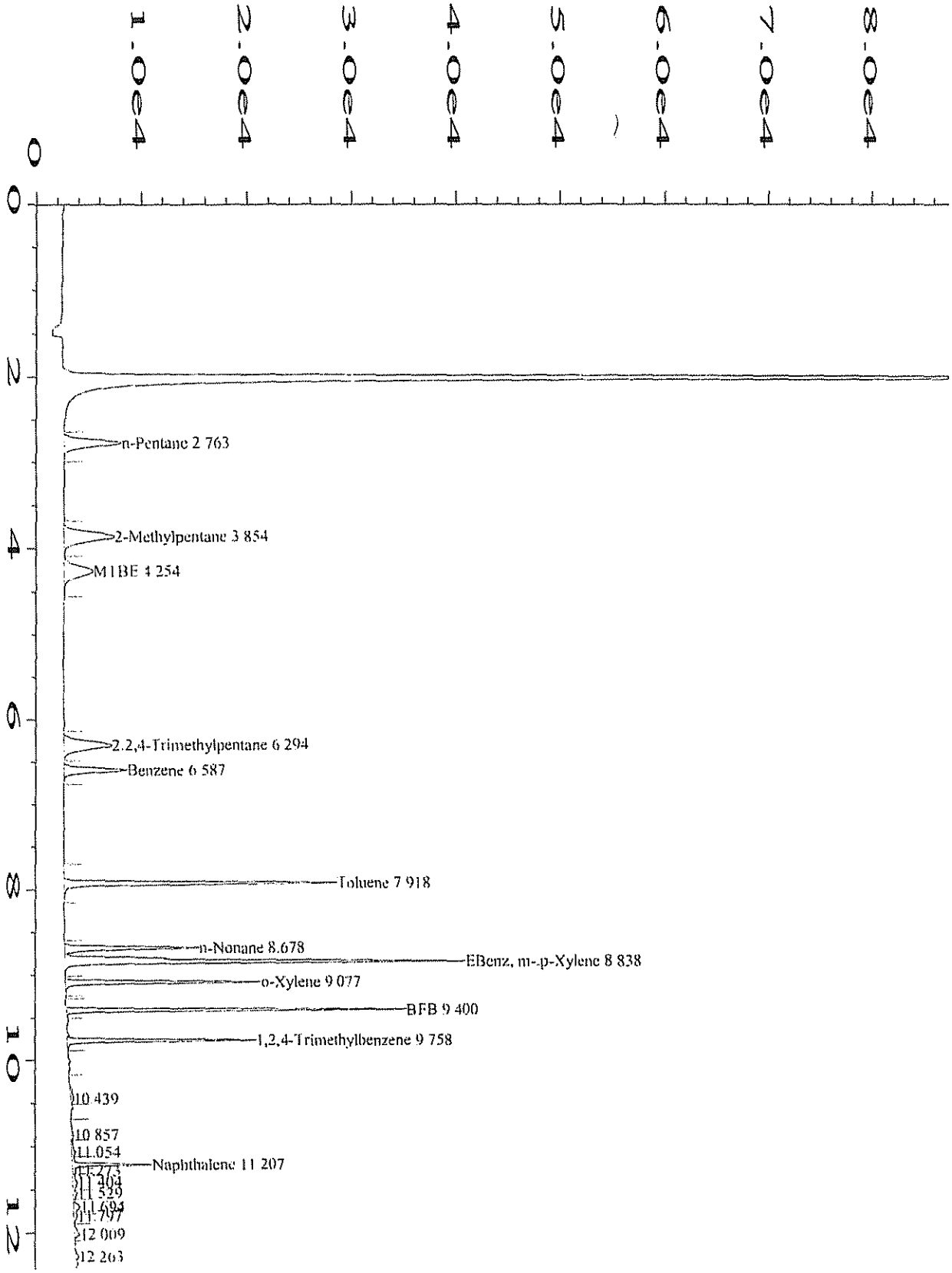
ta File Name : C:\HPCHEM\1\DATA\vp071405\003F0101.D
erator : DCS
istrument : FID/PID
mple Name : V 10
in Time Bar Code:
quired on : 14 Jul 05 09:14 AM
port Created on: 07 Sep 05 02:35 PM
ist Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\003F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.763	29353	BB	0.083	1	29.278	n-Pentane
3.854	37166	BV	0.116	1	6.601	2-Methylpentane
4.254	24008	VB	0.134	1	56.277	MTBE
6.294	30739	BV	0.103	1	5.904	2,2,4-Trimethylpentane
6.587	21736	VB	0.056	1	2.755	Benzene
7.918	64387	BB	0.039	1	6.835	Toluene
8.678	31081	BV	0.038	1	7.799	n-Nonane
8.838	98512	VV	0.038	1	9.630	EBenz, m-,p-Xylene
9.077	39065	VB	0.033	1	3.879	o-Xylene
9.400	58014	BV	0.029	1	223.467	BFB
9.758	35372	VB	0.031	1	3.765	1,2,4-Trimethylbenzene
11.207	14181	VV	0.041	1	3.346	Naphthalene
10.439	2255	BV	0.105		22.555	* uncalibrated *
10.857	1787	BV	0.113		17.873	* uncalibrated *
11.054	2590	VV	0.108		25.898	* uncalibrated *
11.273	1043	VV	0.053		10.425	* uncalibrated *
11.404	3422	VV	0.103		34.219	* uncalibrated *
11.529	1764	VV	0.063		17.642	* uncalibrated *
11.694	3765	VV	0.084		37.645	* uncalibrated *
11.797	1394	VV	0.056		13.939	* uncalibrated *
12.009	2478	VV	0.066		24.778	* uncalibrated *
12.263	1253	PV	0.064		12.529	* uncalibrated *

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp071405\003F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:14 AM	Instrument Method	: GAS1.MTH
Report Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

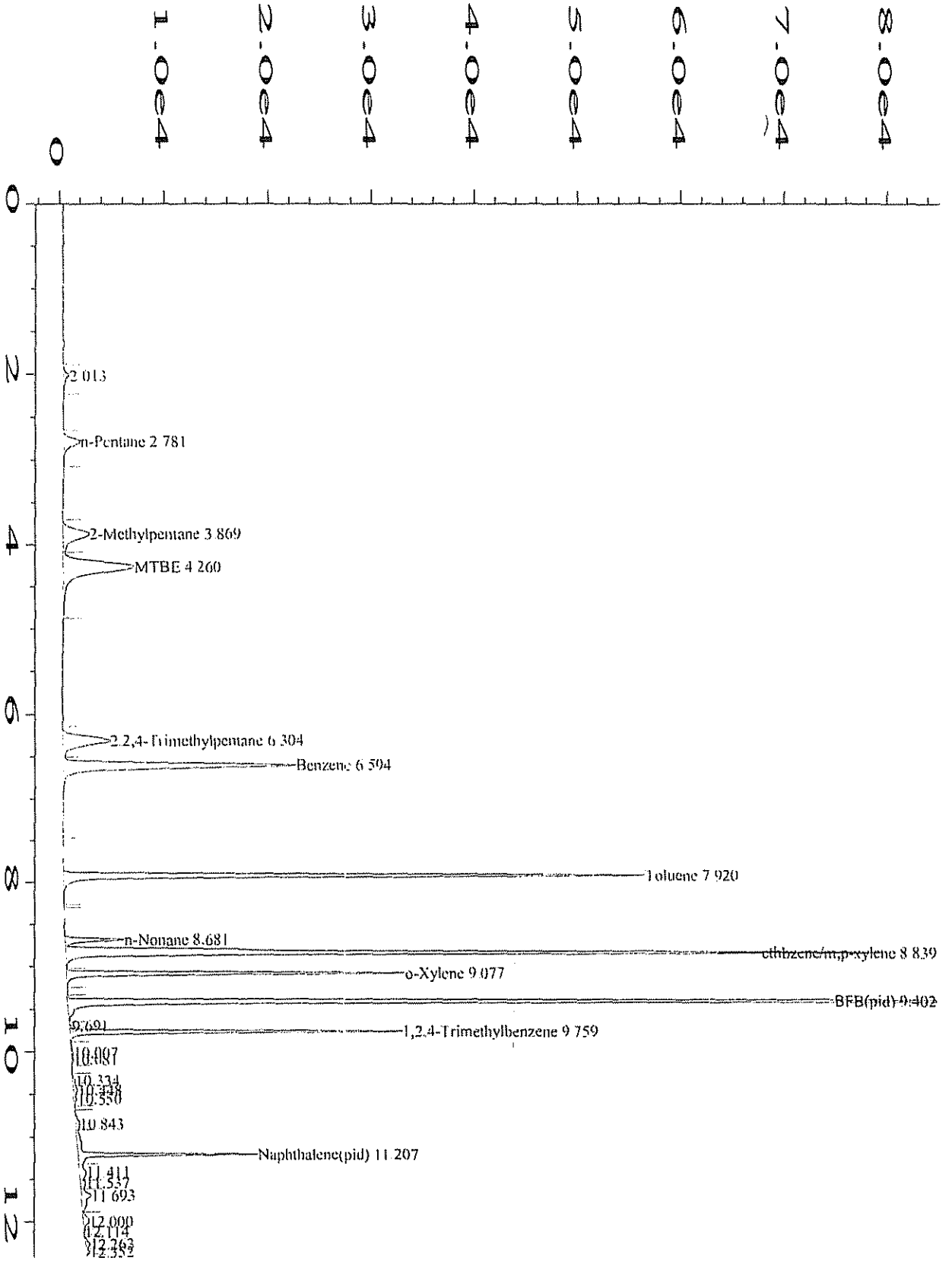
External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp071405\003R0101.D
erator : DCS
istrument : FID/PID
mple Name : V 10
in Time Bar Code:
quired on : 14 Jul 05 09:14 AM
port Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\003R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.781	11221	BB	0.105	1	1.789	n-Pentane
3.869	22217	BV	0.135	1	2.353	2-Methylpentane
4.260	67014	VB	0.148	1	2.223	MTBE
6.304	33150	PV	0.114	1	2.179	2,2,4-Trimethylpentane
6.594	97400	VV	0.067	1	1.224	Benzene
7.920	145561	BB	0.041	1	3.567	Toluene
8.681	13863	BV	0.038	1	2.042	n-Nonane
8.839	207632	VV	0.044	1	6.138	ethbzene/m,p-xylene
9.077	71464	VV	0.035	1	1.845	o-Xylene
9.402	273788	BV	0.032	1	18.427	BFB(pid)
9.759	65359	VV	0.065	1	2.129	1,2,4-Trimethylbenzene
11.207	38413	VV	0.047	1	2.195	Naphthalene(pid)
2.013	3435	BB	0.082		34.352	* uncalibrated *
9.691	444	VV	0.032		4.435	* uncalibrated *
10.007	986	VV	0.081		9.860	* uncalibrated *
10.081	560	VV	0.068		5.601	* uncalibrated *
10.334	1050	BV	0.058		10.503	* uncalibrated *
10.448	2356	VV	0.078		23.563	* uncalibrated *
10.550	1626	VV	0.073		16.263	* uncalibrated *
10.843	2978	VV	0.120		29.781	* uncalibrated *
11.411	5437	VV	0.116		54.370	* uncalibrated *
11.537	2772	VV	0.076		27.724	* uncalibrated *
11.693	7717	VV	0.114		77.175	* uncalibrated *
12.000	3835	VV	0.094		38.352	* uncalibrated *
12.114	157	VV	0.037		1.571	* uncalibrated *
12.263	1880	PV	0.064		18.801	* uncalibrated *
12.352	512	VBA	0.037		5.121	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

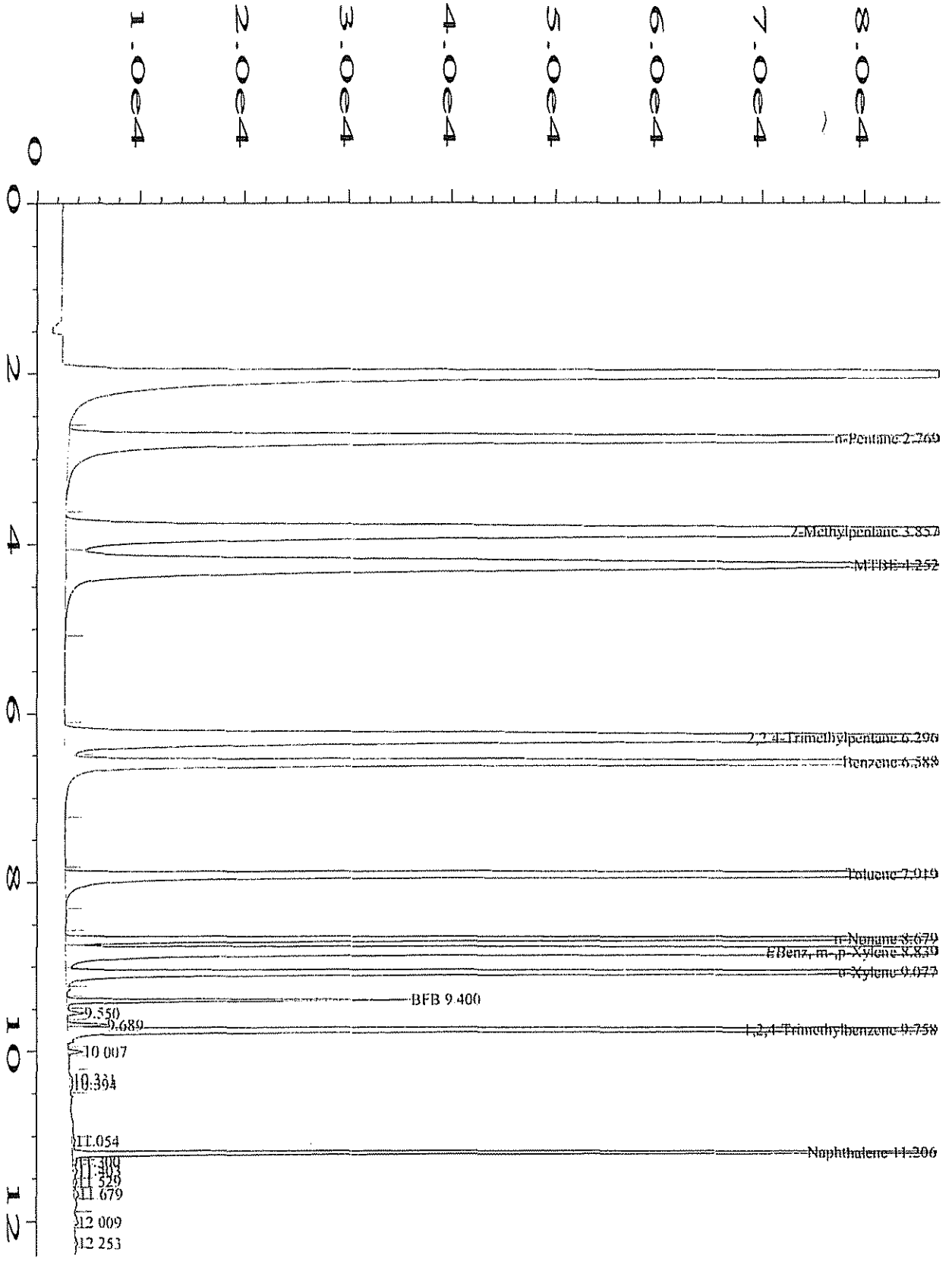
ta File Name : C:\HPCHEM\1\DATA\vp071405\004F0101.D
erator : DCS
strument : FID/PID
mple Name : V 250
.n Time Bar Code:
:quired on : 14 Jul 05 09:40 AM
:port Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

.g. 1 in C:\HPCHEM\1\DATA\vp071405\004F0101.D

:t Time	Area	Type	Width	Ref#	ug/L	Name
2.769	838621	BB	0.089	1	1660.550	n-Pentane
3.857	1066067	BV	0.120	1	1319.603	2-Methylpentane
4.252	758973	VB	0.136	1	17730.02	MTBE
6.296	873405	VV	0.104	1	1688.183	2,2,4-Trimethylpentane
6.588	664162	VB	0.057	1	559.504	Benzene
7.919	1883722	BV	0.039	1	1845.051	Toluene
8.679	570597	BV	0.037	1	739.268	n-Nonane
8.839	2915194	VV	0.042	1	2980.747	EBenz, m-,p-Xylene
9.077	1160395	VV	0.033	1	1200.910	o-Xylene
9.400	60522	VV	0.047	1	233.128	BFB
9.758	1004871	VV	0.031	1	1126.930	1,2,4-Trimethylbenzene
11.206	345847	VV	0.048	1	-1939.058	Naphthalene
9.550	3820	VV	0.037		38.201	* uncalibrated *
9.689	7049	PV	0.031		70.490	* uncalibrated *
10.007	2929	VV	0.046		29.285	* uncalibrated *
10.331	1325	PV	0.061		13.252	* uncalibrated *
10.394	1460	VV	0.068		14.603	* uncalibrated *
11.054	1474	VV	0.063		14.739	* uncalibrated *
11.300	1054	VV	0.044		10.538	* uncalibrated *
11.403	2641	VV	0.081		26.411	* uncalibrated *
11.529	1510	VV	0.059		15.104	* uncalibrated *
11.679	2410	VV	0.076		24.101	* uncalibrated *
12.009	1748	PV	0.067		17.479	* uncalibrated *
12.253	1115	PV	0.066		11.146	* uncalibrated *

alibration table contains at least one peak with amt = 0



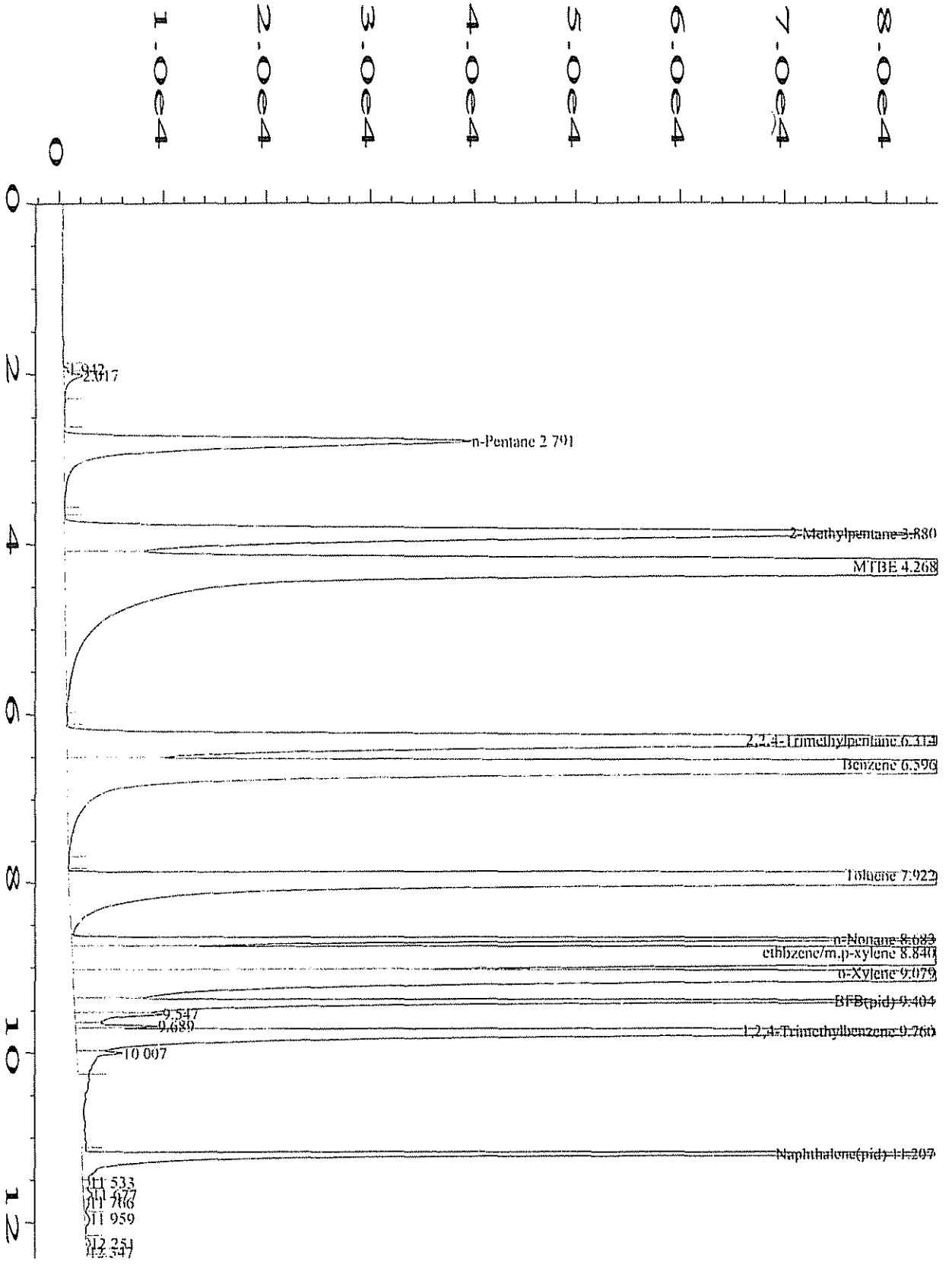
ata File Name	: C:\HPCHEM\1\DATA\vp071405\004F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: V 250	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:40 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\004R0101.D		
erator	: DCS	Page Number	: 1
istrument	: FID/PID	Vial Number	: 4
mple Name	: V 250	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 09:40 AM	Instrument Method	: GAS1.MTH
port Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ist Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp071405\004R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.791	326414	BB	0.122	1	52.051	n-Pentane
3.880	788591	BV	0.147	1	83.508	2-Methylpentane
4.268	3099474	VV	0.160	1	102.826	MTBE
6.314	1282014	VV	0.126	1	84.257	2,2,4-Trimethylpentane
6.596	3691908	VV	0.079	1	46.402	Benzene
7.922	6251271	PV	0.051	1	153.203	Toluene
8.683	368250	VV	0.044	1	54.256	n-Nonane
8.840	8393130	VV	0.057	1	248.133	ethbzene/m,p-xylene
9.079	3321363	VV	0.052	1	85.749	o-Xylene
9.404	457587	VV	0.042	1	30.798	BFB(pid)
9.760	2254703	VV	0.039	1	73.438	1,2,4-Trimethylbenzene
11.207	934074	VV	0.082	1	53.367	Naphthalene(pid)
1.942	1179	BV	0.042		11.788	* uncalibrated *
2.017	9688	VV	0.076		96.879	* uncalibrated *
9.547	34471	VV	0.067		344.714	* uncalibrated *
9.689	18711	VV	0.039		187.113	* uncalibrated *
10.007	31886	VV	0.092		318.858	* uncalibrated *
11.533	3651	VV	0.072		36.513	* uncalibrated *
11.677	5019	VV	0.083		50.185	* uncalibrated *
11.766	3250	VV	0.091		32.495	* uncalibrated *
11.959	4071	VV	0.110		40.709	* uncalibrated *
12.251	2050	PV	0.072		20.501	* uncalibrated *
12.347	360	VBA	0.042		3.600	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\004R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: V 250	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:40 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

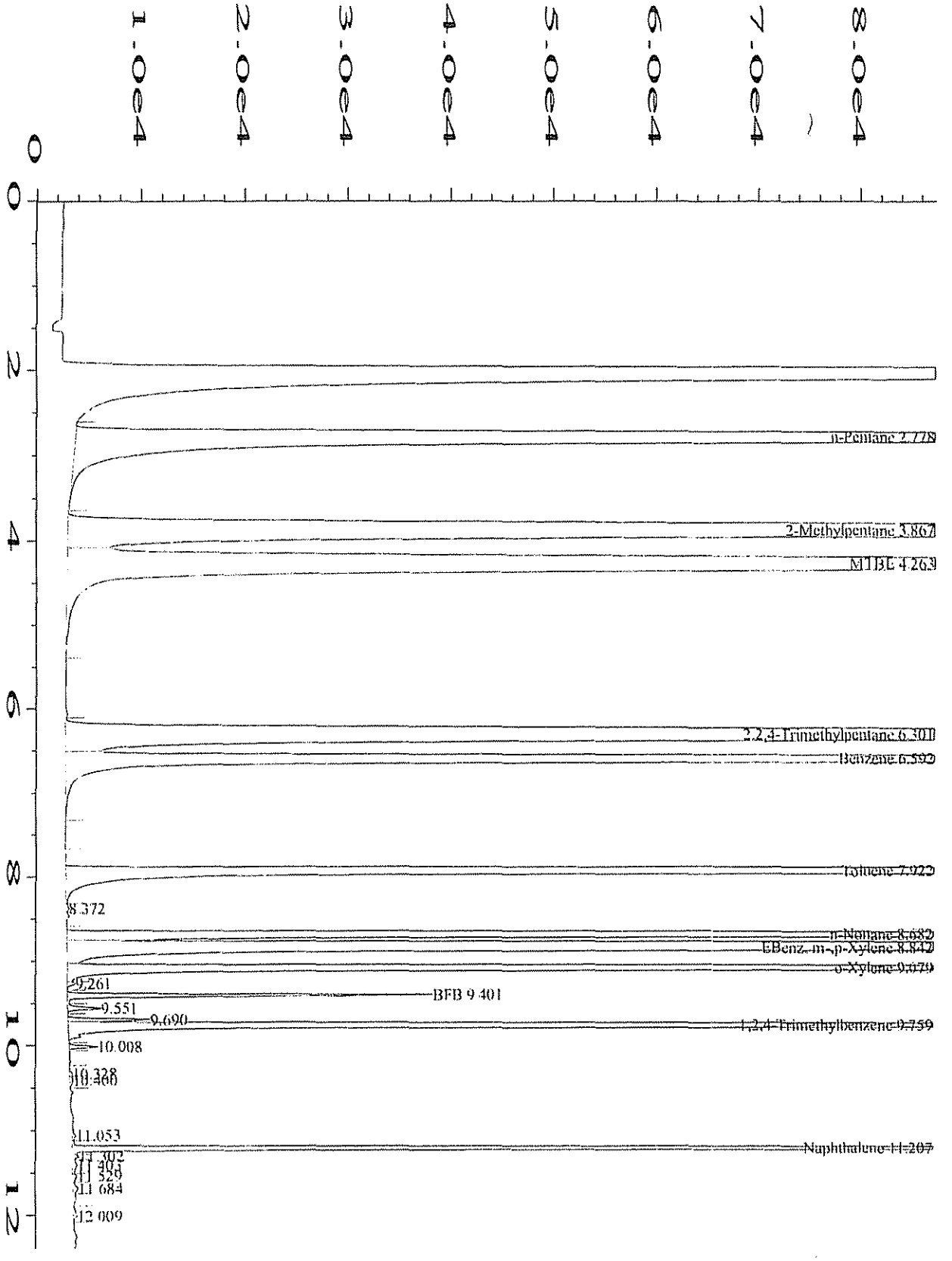
ta File Name : C:\HPCHEM\1\DATA\vp071405\005F0101.D
erator : DCS
istrument : FID/PID
mple Name : V 500
in Time Bar Code:
quired on : 14 Jul 05 10:05 AM
port Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\005F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	1742970	BV	0.094	1	4265.646	n-Pentane
3.867	2181370	PV	0.119	1	3248.649	2-Methylpentane
4.263	1736534	VB	0.137	1	51020.45	MTBE
6.301	1977652	VV	0.104	1	4892.879	2,2,4-Trimethylpentane
6.592	1408771	VB	0.057	1	1352.853	Benzene
7.922	3903076	BV	0.038	1	4578.974	Toluene
8.682	1826421	BV	0.036	1	2874.951	n-Nonane
8.842	6104778	VV	0.037	1	7836.609	EBenz, m-,p-Xylene
9.079	2396482	VV	0.033	1	3095.254	o-Xylene
9.401	66026	VV	0.030	1	254.328	BFB
9.759	2056422	VV	0.031	1	2943.913	1,2,4-Trimethylbenzene
11.207	774715	VV	0.026	1	-6752.609	Naphthalene
8.372	1147	VV	0.077		11.466	* uncalibrated *
9.261	2099	VV	0.041		20.990	* uncalibrated *
9.551	7152	VV	0.035		71.523	* uncalibrated *
9.690	14866	PV	0.030		148.660	* uncalibrated *
10.008	5222	PV	0.031		52.219	* uncalibrated *
10.328	1278	BV	0.068		12.776	* uncalibrated *
10.400	1644	VV	0.076		16.440	* uncalibrated *
11.053	2238	VV	0.072		22.384	* uncalibrated *
11.302	1855	VV	0.037		18.548	* uncalibrated *
11.403	3419	VV	0.093		34.188	* uncalibrated *
11.529	2004	VV	0.064		20.038	* uncalibrated *
11.684	2784	VV	0.076		27.841	* uncalibrated *
12.009	2112	VV	0.074		21.116	* uncalibrated *

alibration table contains at least one peak with amt = 0



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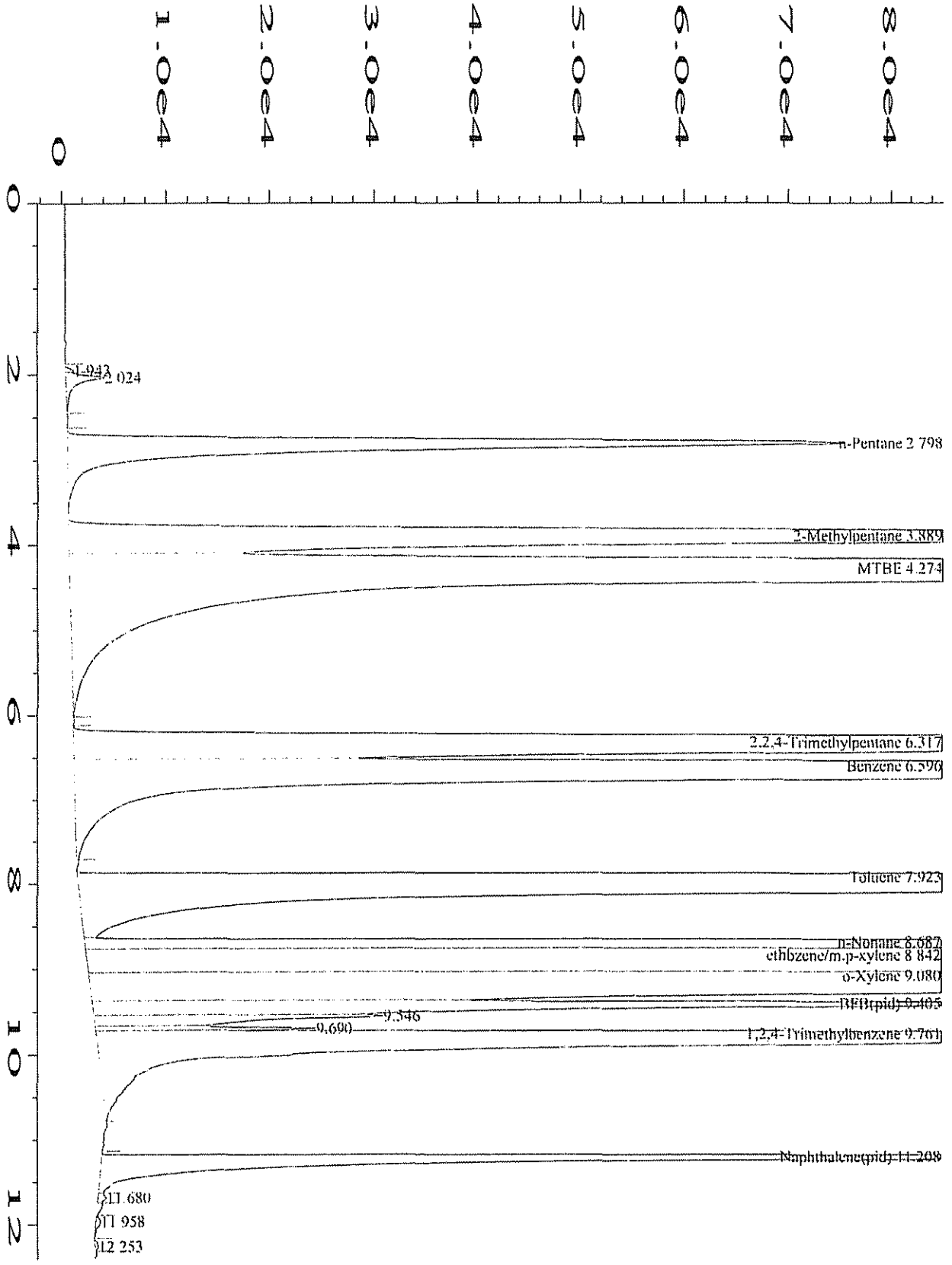
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ıta File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
ɔerator	: DCS	Page Number	: 1
ıstrument	: FID/PID	Vial Number	: 5
ımple Name	: V 500	Injection Number	: 1
ın Time Bar Code:		Sequence Line	: 1
ɔquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
ɜport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ɜst Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ılltiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp071405\005R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.798	665272	BV	0.127	1	106.086	n-Pentane
3.889	1610206	PV	0.145	1	170.513	2-Methylpentane
4.274	6890871	VV	0.166	1	228.607	MTBE
6.317	2946490	VV	0.131	1	193.649	2,2,4-Trimethylpentane
6.596	6903642	VV	0.081	1	86.770	Benzene
7.923	1.17723E+007	PV	0.054	1	288.510	Toluene
8.687	1339610	VV	0.048	1	197.371	n-Nonane
8.842	1.61892E+007	VV	0.052	1	478.613	ethbzene/m,p-xylene
9.080	7706672	VV	0.051	1	198.967	o-Xylene
9.405	731569	VV	0.053	1	49.238	BFB(pid)
9.761	5207830	VV	0.039	1	169.623	1,2,4-Trimethylbenzene
11.208	2227832	PV	0.031	1	127.284	Naphthalene(pid)
1.943	2003	BV	0.040		20.035	* uncalibrated *
2.024	23244	VB	0.084		232.435	* uncalibrated *
9.546	133527	VV	0.079		1335.268	* uncalibrated *
9.690	55487	VV	0.038		554.872	* uncalibrated *
11.680	4387	VV	0.078		43.866	* uncalibrated *
11.958	3333	VV	0.106		33.335	* uncalibrated *
12.253	1461	PV	0.068		14.609	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

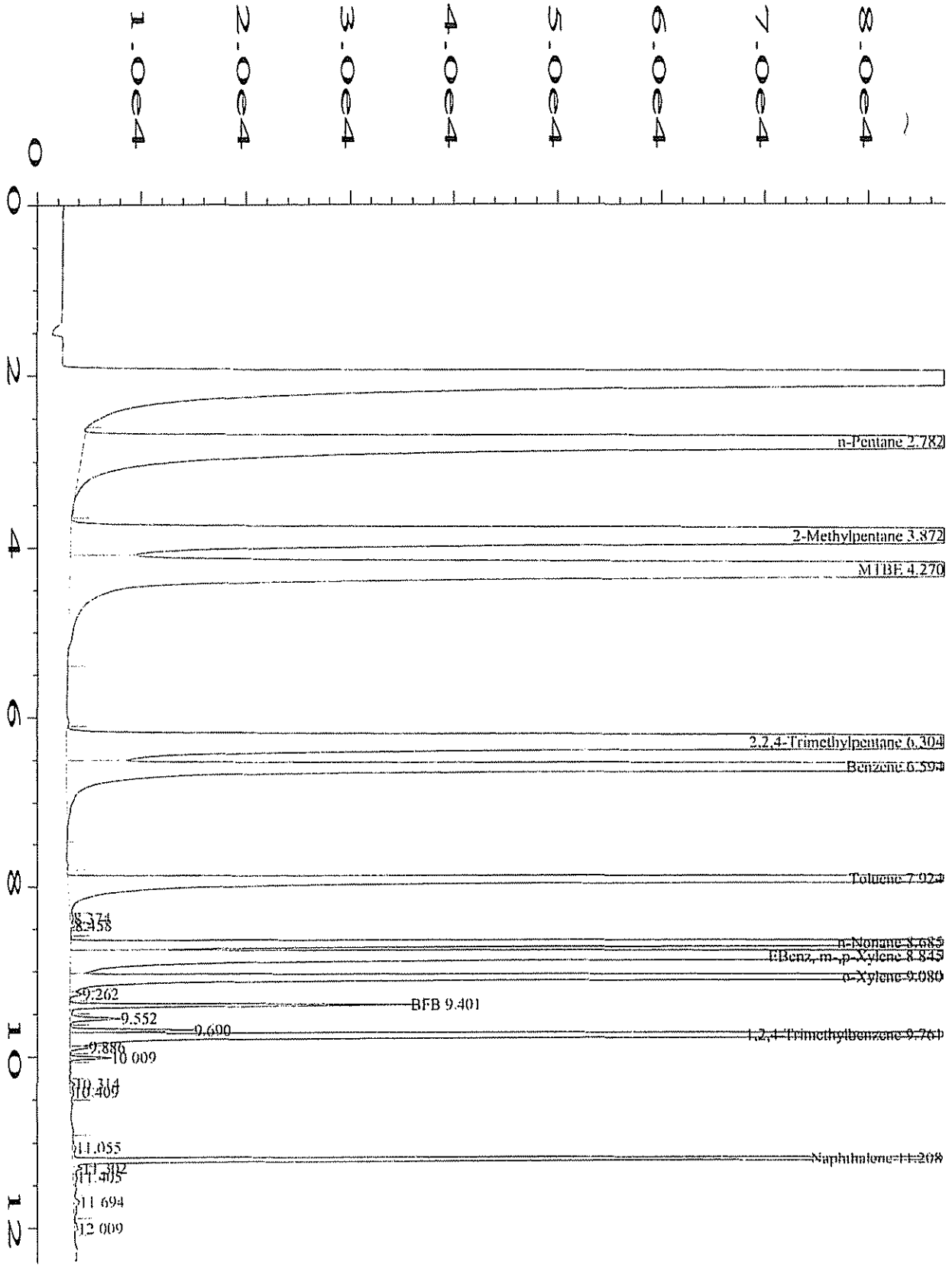
ta File Name : C:\HPCHEM\1\DATA\vp071405\006F0101.D
erator : DCS
istrument : FID/PID
mple Name : V 750
n Time Bar Code:
quired on : 14 Jul 05 10:30 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.782	2652861	BV	0.097	1	6886.704	n-Pentane
3.872	3424588	PV	0.119	1	5398.938	2-Methylpentane
4.270	2615165	VB	0.136	1	80941.89	MTBE
6.304	3347705	VV	0.105	1	8868.986	2,2,4-Trimethylpentane
6.594	2207719	VV	0.057	1	2204.097	Benzene
7.924	5984413	BV	0.037	1	7396.813	Toluene
8.685	3017734	BV	0.036	1	4900.926	n-Nonane
8.845	9264266	VV	0.036	1	12646.65	EBenz, m-,p-Xylene
9.080	3555046	VV	0.033	1	4870.791	o-Xylene
9.401	63490	PV	0.030	1	244.560	BFB
9.761	3032646	VV	0.030	1	4630.738	1,2,4-Trimethylbenzene
11.208	1137876	VV	0.026	1	-10828.67	Naphthalene
8.374	1497	VV	0.074		14.971	* uncalibrated *
8.458	1134	VB	0.043		11.342	* uncalibrated *
9.262	3166	VV	0.040		31.660	* uncalibrated *
9.552	11093	VV	0.035		110.925	* uncalibrated *
9.690	23714	VV	0.031		237.136	* uncalibrated *
9.886	3865	VV	0.036		38.648	* uncalibrated *
10.009	7822	VV	0.031		78.224	* uncalibrated *
10.314	1455	PV	0.044		14.550	* uncalibrated *
10.409	1722	VV	0.094		17.218	* uncalibrated *
11.055	2011	VV	0.072		20.107	* uncalibrated *
11.302	2878	VV	0.043		28.781	* uncalibrated *
11.405	2499	VV	0.082		24.985	* uncalibrated *
11.694	4348	VV	0.107		43.479	* uncalibrated *
12.009	1945	VV	0.073		19.448	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\006F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:30 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

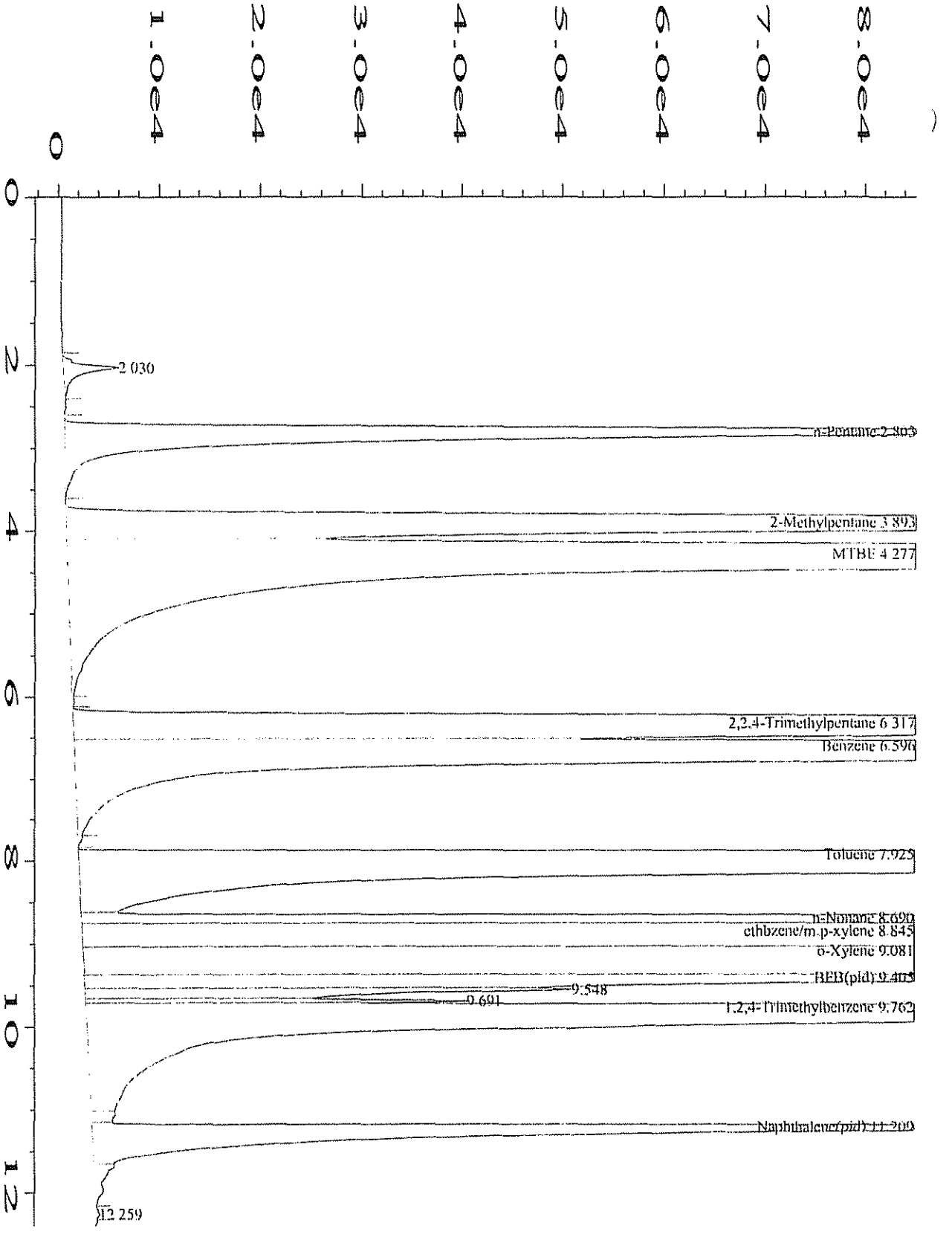
External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp071405\006R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 750
ın Time Bar Code:
ɔquired on : 14 Jul 05 10:30 AM
ɔport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\006R0101.D

ɔt Time	Area	Type	Width	Ref#	ug/L	Name
2.803	975481	BV	0.134	1	155.553	n-Pentane
3.893	2424534	PV	0.149	1	256.747	2-Methylpentane
4.277	9621048	VV	0.170	1	319.182	MTBE
6.317	4725068	PV	0.132	1	310.541	2,2,4-Trimethylpentane
6.596	9633231	VV	0.083	1	121.077	Benzene
7.925	1.64822E+007	PV	0.055	1	403.937	Toluene
8.690	2120721	VV	0.048	1	312.456	n-Nonane
8.845	2.20006E+007	VV	0.053	1	650.422	ethbzene/m,p-xylene
9.081	1.12653E+007	VV	0.053	1	290.842	o-Xylene
9.405	956172	VV	0.098	1	64.355	BFB(pid)
9.762	8311246	VV	0.043	1	270.704	1,2,4-Trimethylbenzene
11.209	3517427	VV	0.057	1	200.962	Naphthalene(pid)
2.030	38178	BV	0.091		381.778	* uncalibrated *
9.548	252959	VV	0.087		2529.595	* uncalibrated *
9.691	102580	VV	0.039		1025.798	* uncalibrated *
12.259	1377	VV	0.069		13.769	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\006R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:30 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

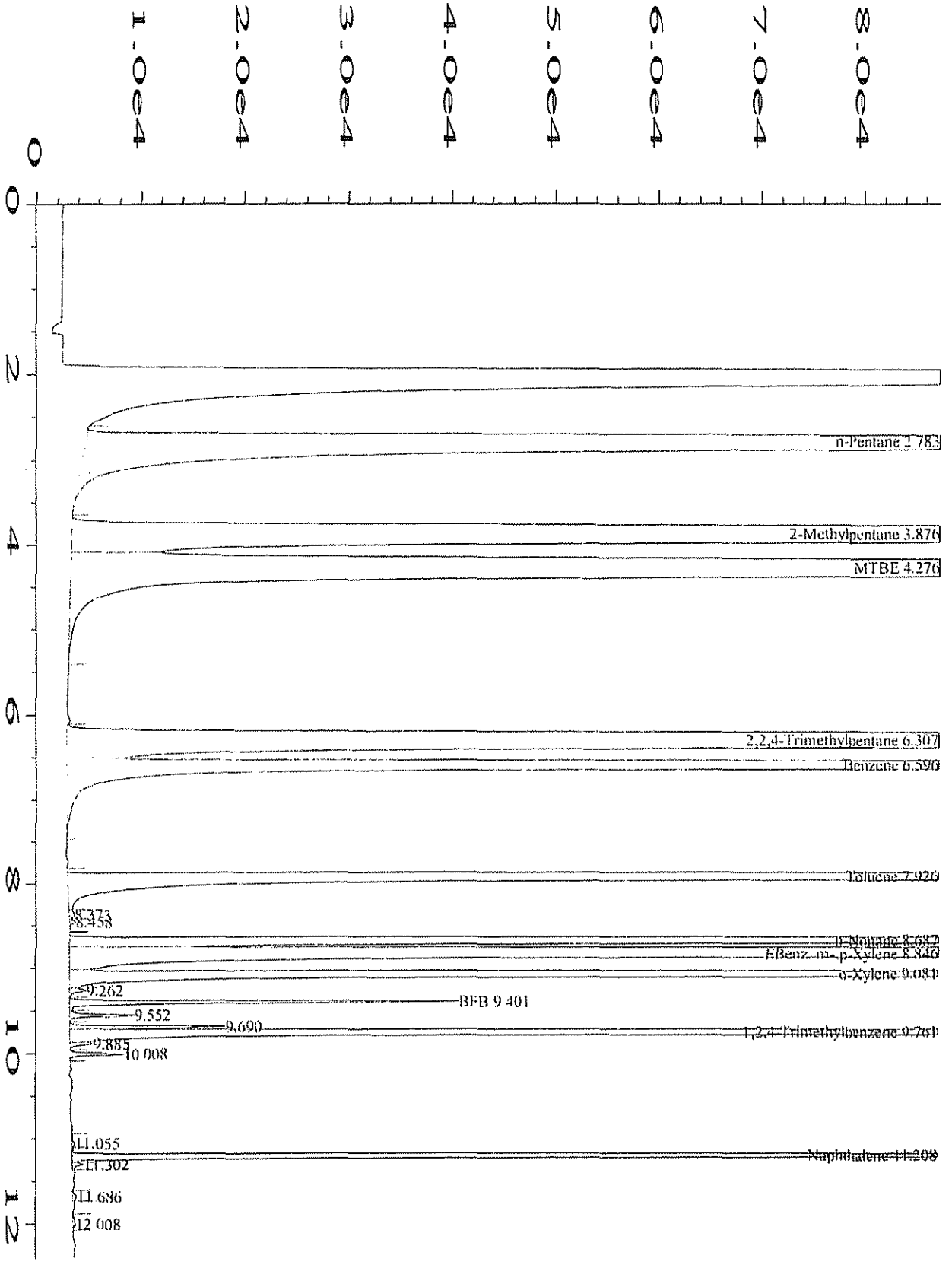
ıta File Name : C:\HPCHEM\1\DATA\vp071405\008F0101.D
)erator : DCS
ıstrument : FID/PID
ımple Name : V 1000
ın Time Bar Code:
:quired on : 14 Jul 05 11:21 AM
ɜport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ılltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ıg. 1 in C:\HPCHEM\1\DATA\vp071405\008F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.783	3704165	BV	0.098	1	9915.121	n-Pentane
3.876	4661301	PV	0.120	1	7537.976	2-Methylpentane
4.276	3978270	VV	0.136	1	127361.9	MTBE
6.307	4551928	VV	0.104	1	12363.83	2,2,4-Trimethylpentane
6.596	3043185	VV	0.057	1	3094.250	Benzene
7.926	8164170	BV	0.037	1	10347.90	Toluene
8.687	4098524	BV	0.036	1	6738.942	n-Nonane
8.846	1.26057E+007	VV	0.035	1	17733.71	EBenz, m-,p-Xylene
9.081	4759327	VV	0.032	1	6716.389	o-Xylene
9.401	72627	VV	0.030	1	279.757	BFB
9.761	3901614	VV	0.030	1	6132.235	1,2,4-Trimethylbenzene
11.208	1571818	VV	0.026	1	-15699.17	Naphthalene
8.373	2545	VV	0.076		25.448	* uncalibrated *
8.458	1897	VB	0.046		18.969	* uncalibrated *
9.262	4665	VV	0.042		46.652	* uncalibrated *
9.552	14161	VV	0.035		141.607	* uncalibrated *
9.690	29684	VV	0.031		296.844	* uncalibrated *
9.885	5004	VV	0.037		50.036	* uncalibrated *
10.008	10327	VV	0.032		103.275	* uncalibrated *
11.055	1037	BV	0.052		10.370	* uncalibrated *
11.302	3169	VV	0.040		31.692	* uncalibrated *
11.686	2006	VV	0.071		20.065	* uncalibrated *
12.008	1448	VV	0.071		14.484	* uncalibrated *

ılibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\008F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 8
ample Name	: V 1000	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 11:21 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

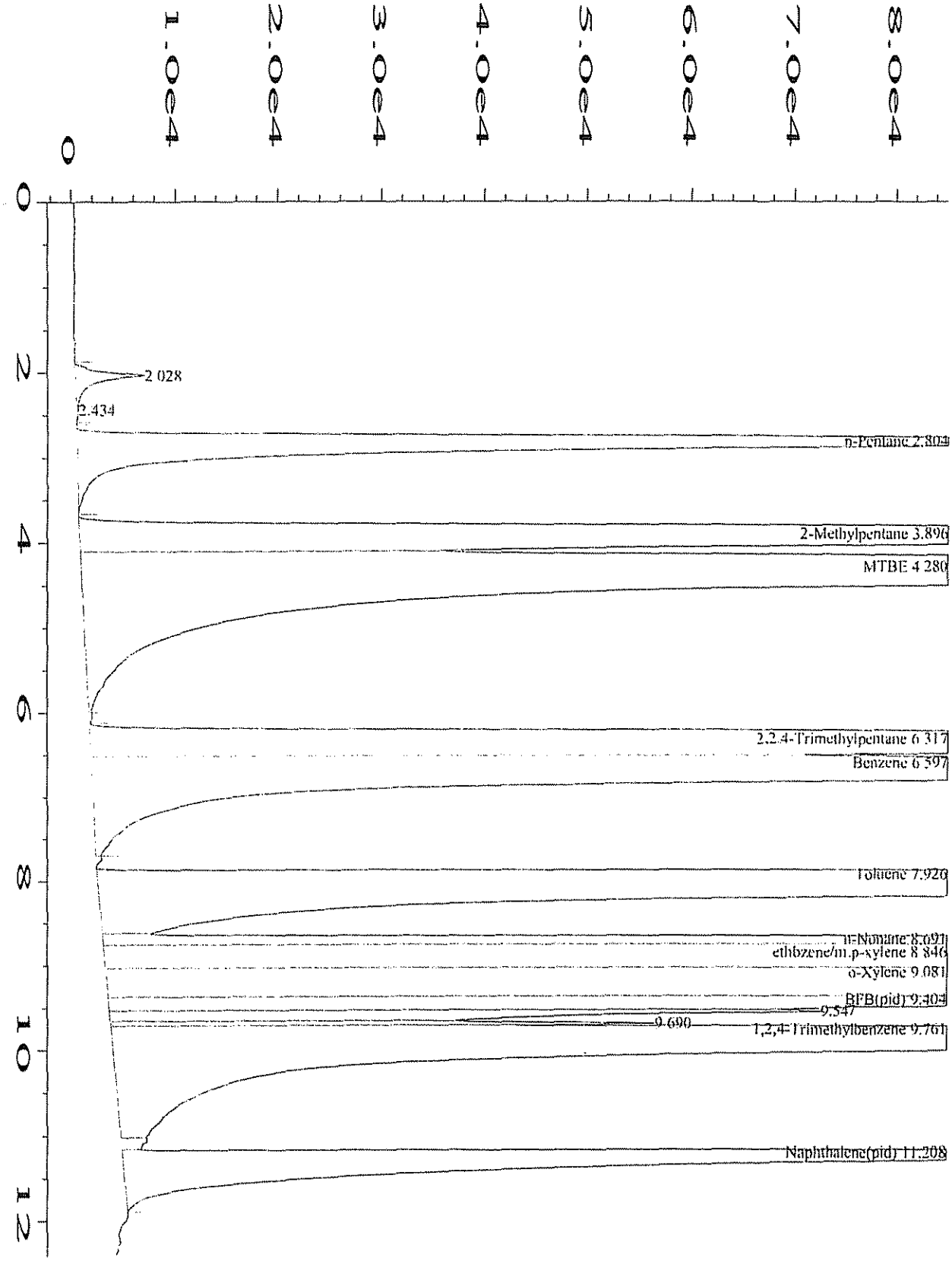
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\008R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 1000
an Time Bar Code:
cquired on : 14 Jul 05 11:21 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\008R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.804	1337647	BV	0.137	1	213.305	n-Pentane
3.896	3236774	PV	0.151	1	342.760	2-Methylpentane
4.280	1.35276E+007	VV	0.173	1	448.783	MTBE
6.317	6150148	VV	0.133	1	404.200	2,2,4-Trimethylpentane
6.597	1.2296E+007	VV	0.083	1	154.545	Benzene
7.926	2.05001E+007	PV	0.056	1	502.405	Toluene
8.691	2706572	VV	0.046	1	398.772	n-Nonane
8.846	2.68764E+007	VV	0.053	1	794.568	ethbzene/m,p-xylene
9.081	1.4125E+007	VV	0.054	1	364.671	o-Xylene
9.404	1283136	VV	0.065	1	86.361	BFB(pid)
9.761	1.07256E+007	VV	0.044	1	349.341	1,2,4-Trimethylbenzene
11.208	5037357	VV	0.057	1	287.801	Naphthalene(pid)
2.028	49839	BV	0.098		498.389	* uncalibrated *
2.434	1338	VB	0.119		13.384	* uncalibrated *
9.547	368835	VV	0.089		3688.351	* uncalibrated *
9.690	144281	VV	0.039		1442.812	* uncalibrated *



ta File Name	: C:\HPCHEM\1\DATA\vp071405\008R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 8
nple Name	: V 1000	Injection Number	: 1
1 Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 11:21 AM	Instrument Method:	GAS1.MTH
port Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
tiplier	: 1	ISTD Amount	:

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 08/08/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	14.1
C_9-C_{12} Aliphatics	500	50	5.0
C_9-C_{10} Aromatics	500	50	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

External Standard Report

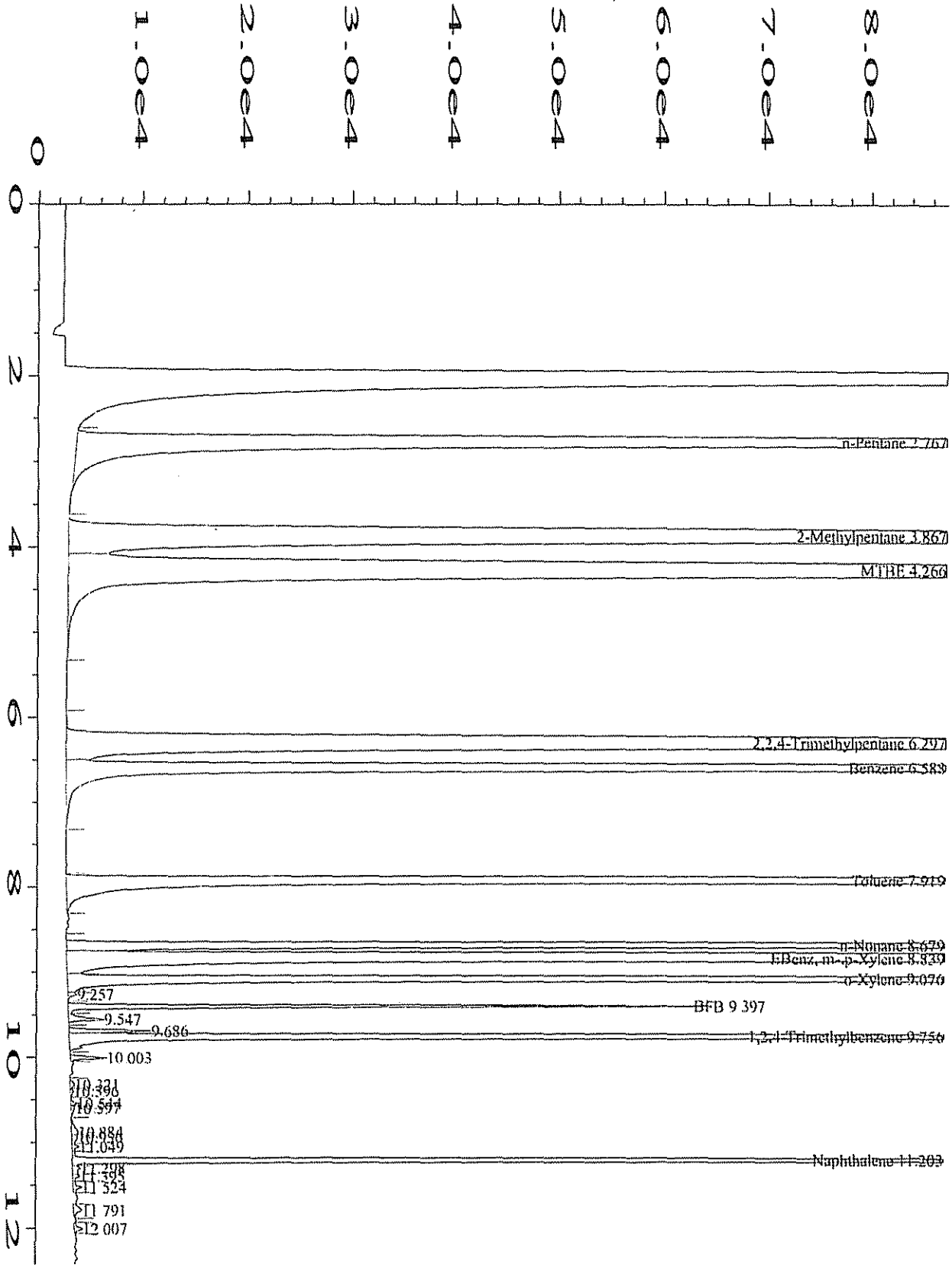
ata File Name : C:\HPCHEM\1\DATA\vp080805\002F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
an Time Bar Code:
cquired on : 08 Aug 05 08:55 AM
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080805\002F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.767	1297319	BV	0.092	1	2981.889	n-Pentane
3.867	1898827	PV	0.120	1	2759.958	2-Methylpentane
4.266	1860549	VB	0.135	1	55243.73	MTBE
6.297	1852756	BV	0.104	1	4530.413	2,2,4-Trimethylpentane
6.588	1451291	VV	0.057	1	1398.155	Benzene
7.919	4018316	BV	0.038	1	4734.993	Toluene
8.679	1633320	BV	0.035	1	2546.559	n-Nonane
8.839	6238353	VV	0.037	1	8039.966	EBenz, m-,p-Xylene
9.076	2437885	VV	0.033	1	3158.705	o-Xylene
9.397	111106	VV	0.029	1	427.978	BFB
9.756	2059304	VV	0.031	1	2948.894	1,2,4-Trimethylbenzene
11.203	749874	VV	0.026	1	-6473.791	Naphthalene
9.257	2653	VV	0.043		26.528	* uncalibrated *
9.547	8621	VV	0.038		86.210	* uncalibrated *
9.686	14685	PV	0.030		146.851	* uncalibrated *
10.003	7074	VV	0.033		70.743	* uncalibrated *
10.321	1661	BV	0.058		16.612	* uncalibrated *
10.396	1125	VV	0.054		11.246	* uncalibrated *
10.544	1307	VV	0.035		13.072	* uncalibrated *
10.597	1418	VV	0.055		14.182	* uncalibrated *
10.884	4009	VV	0.081		40.095	* uncalibrated *
10.936	2521	VV	0.078		25.208	* uncalibrated *
11.049	1894	VV	0.043		18.936	* uncalibrated *
11.298	3403	VV	0.065		34.032	* uncalibrated *
11.395	1997	VV	0.044		19.967	* uncalibrated *
11.524	2868	VV	0.050		28.681	* uncalibrated *
11.791	3927	VV	0.067		39.271	* uncalibrated *
12.007	2458	VV	0.047		24.576	* uncalibrated *

alibration table contains at least one peak with amt = 0



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un Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 08:55 AM	Instrument Method:	GAS1.MTH
eport Created on:	08 Aug 05 10:57 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

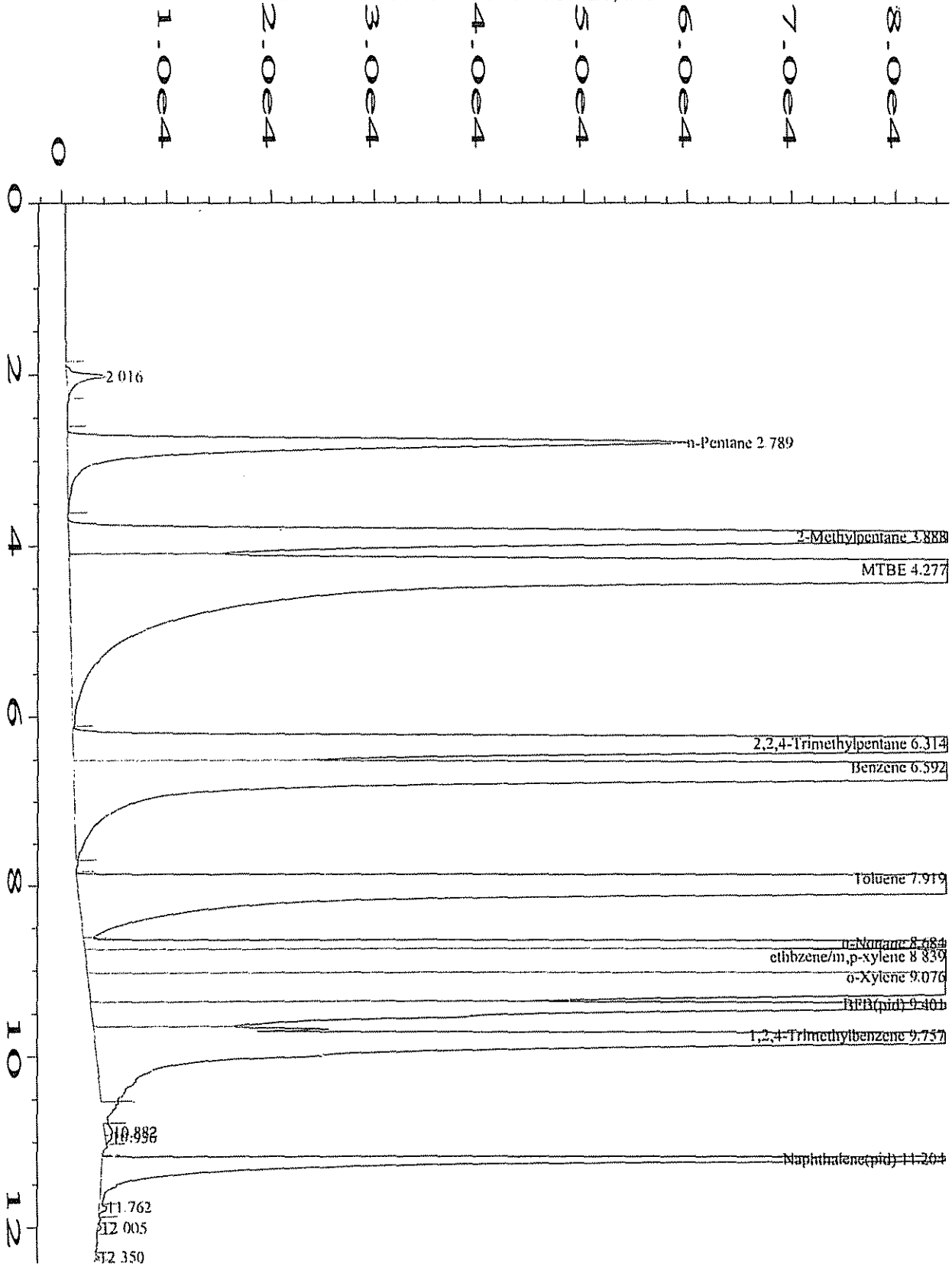
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\002R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 08 Aug 05 08:55 AM
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080805\002R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.789	513392	BV	0.128	1	81.867	n-Pentane
3.888	1423634	PV	0.146	1	150.756	2-Methylpentane
4.277	7238611	VV	0.167	1	240.144	MTBE
6.314	2707144	VV	0.129	1	177.919	2,2,4-Trimethylpentane
6.592	6968076	VV	0.081	1	87.579	Benzene
7.919	1.18763E+007	PV	0.054	1	291.059	Toluene
8.684	1153180	VV	0.047	1	169.904	n-Nonane
8.839	1.6009E+007	VV	0.061	1	473.285	ethbzene/m,p-xylene
9.076	7836155	VV	0.052	1	202.310	o-Xylene
9.401	1270941	VV	0.093	1	85.540	BFB(pid)
9.757	5113644	VV	0.040	1	166.556	1,2,4-Trimethylbenzene
11.204	2089268	BV	0.031	1	119.367	Naphthalene(pid)
2.016	22160	BV	0.081		221.604	* uncalibrated *
10.882	5234	VV	0.087		52.338	* uncalibrated *
10.936	2410	VV	0.064		24.095	* uncalibrated *
11.762	3772	VV	0.076		37.715	* uncalibrated *
12.005	1339	VB	0.046		13.388	* uncalibrated *
12.350	841	PBA	0.033		8.407	* uncalibrated *



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nstrument	: FID/PID	Vial Number	: 2
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 08:55 AM	Instrument Method:	GAS1.MTH
eport Created on:	08 Aug 05 10:57 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

VPH QC, Blanks Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\005F0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4080805a
un Time Bar Code:
cquired on : 08 Aug 05 10:11 AM 516
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080805\005F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.764	58491	BV	0.090	1	58.341	n-Pentane
3.853	69292	BV	0.130	1	12.307	2-Methylpentane
4.196	73793	VV	0.184	1	172.981	MTBE
6.293	63400	VV	0.113	1	12.177	2,2,4-Trimethylpentane
6.584	69422	VV	0.087	1	8.799	Benzene
7.916	221864	VV	0.040	1	23.551	Toluene
8.676	36112	VV	0.042	1	9.061	n-Nonane
8.835	212753	VV	0.040	1	20.798	EBenz, m-,p-Xylene
9.074	70454	VV	0.036	1	6.995	o-Xylene
9.397	112081	PV	0.029	1	431.735	BFB
9.755	88036	VV	0.033	1	9.370	1,2,4-Trimethylbenzene
11.204	6941	VV	0.030	1	1.638	Naphthalene
2.991	22345	PV	0.074		223.455	* uncalibrated *
3.188	41980	VV	0.122		419.796	* uncalibrated *
4.511	36863	VV	0.112		368.630	* uncalibrated *
4.832	26222	VV	0.175		262.215	* uncalibrated *
5.077	14029	VV	0.114		140.289	* uncalibrated *
5.202	13746	VV	0.112		137.458	* uncalibrated *
5.457	26305	VV	0.108		263.046	* uncalibrated *
5.773	1963	PV	0.094		19.629	* uncalibrated *
5.943	21482	VV	0.087		214.825	* uncalibrated *
6.071	51031	VV	0.122		510.308	* uncalibrated *
6.724	10285	VV	0.074		102.851	* uncalibrated *
6.813	8334	VV	0.066		83.340	* uncalibrated *
6.970	19453	VV	0.108		194.530	* uncalibrated *
7.108	12588	VV	0.073		125.876	* uncalibrated *
7.273	25597	VV	0.073		255.966	* uncalibrated *
7.379	40369	VV	0.076		403.694	* uncalibrated *
7.515	25615	VV	0.091		256.152	* uncalibrated *
7.786	16127	VV	0.065		161.270	* uncalibrated *
8.051	9716	VV	0.125		97.165	* uncalibrated *
8.372	12914	VV	0.067		129.144	* uncalibrated *
8.454	6043	VV	0.047		60.430	* uncalibrated *
9.197	1788	VV	0.035		17.877	* uncalibrated *
9.258	5303	VV	0.038		53.029	* uncalibrated *
9.522	107109	VV	0.046		1071.093	* uncalibrated *
9.685	18483	VV	0.036		184.833	* uncalibrated *
9.886	2628	VV	0.047		26.279	* uncalibrated *
10.004	18962	VV	0.032		189.622	* uncalibrated *
10.108	32561	VV	0.052		325.610	* uncalibrated *
10.177	12351	VV	0.044		123.508	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080805\005F0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4080805a
in Time Bar Code:
cquired on : 08 Aug 05 10:11 AM
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.268	12996	VV	0.041	129.962	* uncalibrated *
10.318	14147	VV	0.037	141.474	* uncalibrated *
10.394	3599	VV	0.044	35.988	* uncalibrated *
10.442	2851	VV	0.035	28.510	* uncalibrated *
10.554	23534	VV	0.071	235.335	* uncalibrated *
10.640	2577	VV	0.042	25.771	* uncalibrated *
10.757	13667	VV	0.065	136.668	* uncalibrated *
10.850	6973	VV	0.035	69.728	* uncalibrated *
10.968	7065	VV	0.064	70.648	* uncalibrated *
11.050	4326	VV	0.063	43.258	* uncalibrated *
11.347	2244	VV	0.047	22.443	* uncalibrated *
11.478	2695	VV	0.065	26.946	* uncalibrated *
11.524	2512	VV	0.056	25.116	* uncalibrated *
11.758	3035	VV	0.035	30.348	* uncalibrated *

alibration table contains at least one peak with amt = 0

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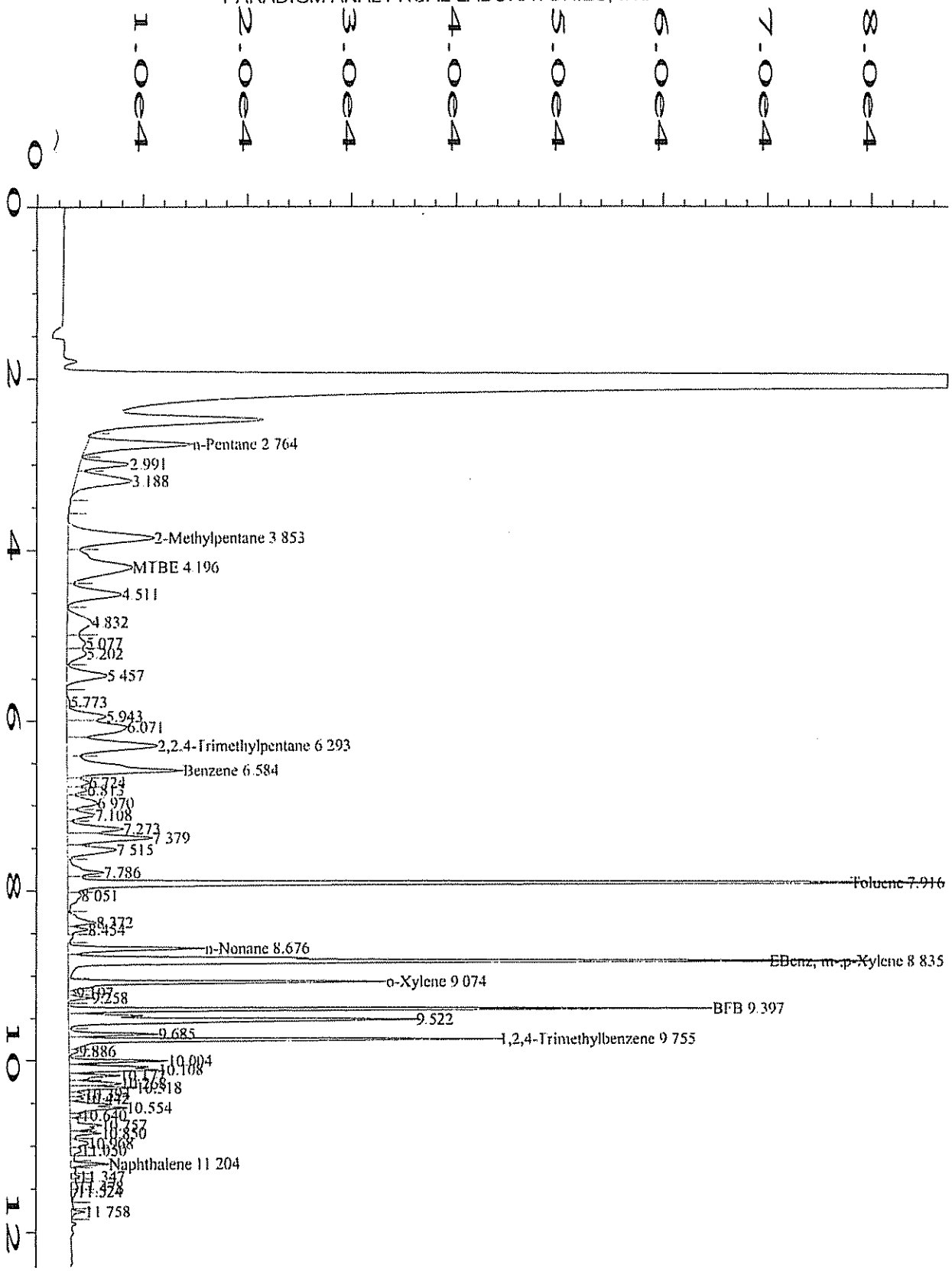

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nstrument	: FID/PID	Vial Number	: 5
ample Name	: lcs4080805a	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 10:11 AM	Instrument Method	: GAS1.MTH
eport Created on	: 08 Aug 05 10:57 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\005R0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4080805a
un Time Bar Code:
cquired on : 08 Aug 05 10:11 AM
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080805\005R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.811	67768	VV	0.148	1	10.807	n-Pentane
3.867	55292	VV	0.146	1	5.855	2-Methylpentane
4.256	93175	VV	0.156	1	3.091	MTBE
6.302	73977	VV	0.126	1	4.862	2,2,4-Trimethylpentane
6.594	205840	VV	0.078	1	2.587	Benzene
7.919	547374	VV	0.044	1	13.415	Toluene
8.678	18524	VV	0.052	1	2.729	n-Nonane
8.836	444380	VV	0.041	1	13.138	ethbzene/m,p-xylene
9.075	122090	VV	0.036	1	3.152	o-Xylene
9.399	548082	PV	0.049	1	36.888	BFB(pid)
9.755	158112	VV	0.034	1	5.150	1,2,4-Trimethylbenzene
11.204	17544	VV	0.034	1	1.002	Naphthalene(pid)
2.039	58648	VV	0.085		586.484	* uncalibrated *
2.155	29712	VV	0.078		297.124	* uncalibrated *
2.504	70928	VV	0.133		709.284	* uncalibrated *
2.996	66227	VV	0.085		662.266	* uncalibrated *
3.191	106564	VV	0.142		1065.641	* uncalibrated *
4.053	20298	VV	0.096		202.977	* uncalibrated *
4.495	35200	VV	0.140		352.004	* uncalibrated *
4.829	46232	VV	0.182		462.323	* uncalibrated *
5.070	12212	VV	0.090		122.118	* uncalibrated *
5.206	22605	VV	0.124		226.053	* uncalibrated *
5.468	14616	VV	0.115		146.160	* uncalibrated *
5.773	2364	PV	0.098		23.644	* uncalibrated *
6.067	61132	VV	0.136		611.321	* uncalibrated *
6.812	12145	VV	0.067		121.448	* uncalibrated *
6.981	16430	VV	0.097		164.303	* uncalibrated *
7.113	15795	VV	0.074		157.946	* uncalibrated *
7.279	27676	VV	0.070		276.761	* uncalibrated *
7.381	47736	VV	0.083		477.364	* uncalibrated *
7.521	25797	VV	0.094		257.971	* uncalibrated *
7.785	14890	VV	0.084		148.903	* uncalibrated *
8.365	11567	VV	0.086		115.672	* uncalibrated *
8.457	6828	VV	0.063		68.275	* uncalibrated *
9.197	1245	VV	0.035		12.452	* uncalibrated *
9.259	7509	VV	0.038		75.089	* uncalibrated *
9.524	182094	VV	0.052		1820.939	* uncalibrated *
9.686	28052	VV	0.037		280.518	* uncalibrated *
9.886	4316	VV	0.050		43.162	* uncalibrated *
10.004	28593	VV	0.033		285.931	* uncalibrated *
10.108	52888	VV	0.051		528.885	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp080805\005R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : lcs4080805a
ın Time Bar Code:
ɔquired on : 08 Aug 05 10:11 AM
ɜport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.177	19425	VV	0.037	194.248	* uncalibrated *
10.269	19396	VV	0.041	193.956	* uncalibrated *
10.318	19963	VV	0.037	199.627	* uncalibrated *
10.394	4379	VV	0.040	43.793	* uncalibrated *
10.442	4044	VV	0.035	40.437	* uncalibrated *
10.555	38364	VV	0.074	383.644	* uncalibrated *
10.641	3321	VV	0.038	33.212	* uncalibrated *
10.758	19906	VV	0.064	199.065	* uncalibrated *
10.850	9765	VV	0.036	97.650	* uncalibrated *
10.969	10202	VV	0.064	102.024	* uncalibrated *
11.035	2424	VV	0.033	24.237	* uncalibrated *
11.060	4369	VV	0.061	43.690	* uncalibrated *
11.348	3446	VV	0.049	34.463	* uncalibrated *
11.478	9159	VV	0.110	91.589	* uncalibrated *
11.758	6994	VV	0.038	69.940	* uncalibrated *
11.903	1979	VV	0.034	19.785	* uncalibrated *
12.352	195	PBA	0.021	1.950	* uncalibrated *

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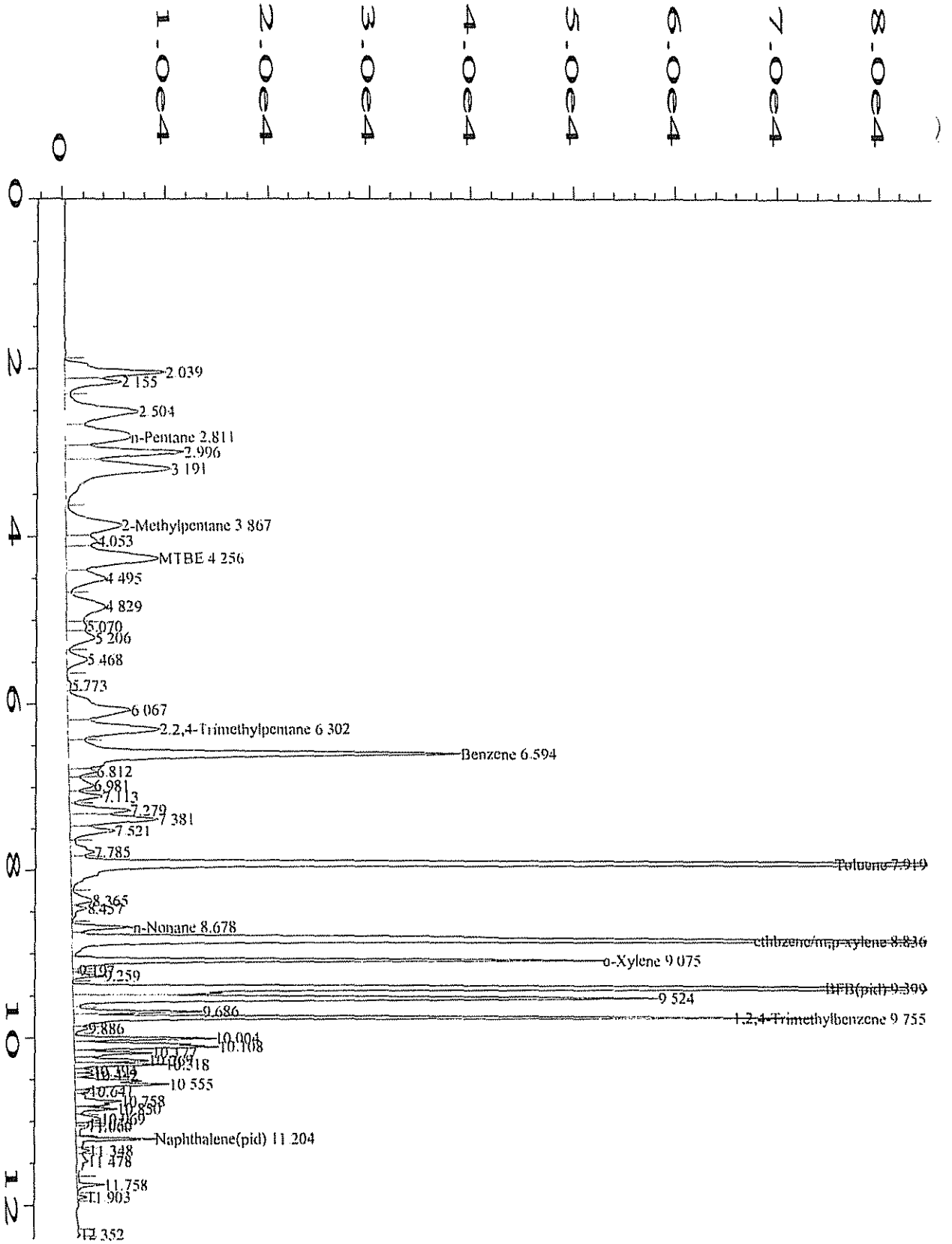

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ample Name	: lcs4080805a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
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eport Created on	: 08 Aug 05 10:57 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\012F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 ms
un Time Bar Code:
cquired on : 08 Aug 05 02:25 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

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et Time	Area	Type	Width	Ref#	ug/L	Name
2.766	62371	BV	0.088	1	62.211	n-Pentane
3.860	75036	BV	0.130	1	13.327	2-Methylpentane
4.200	78550	VV	0.176	1	184.131	MTBE
6.296	118018	VV	0.110	1	22.668	2,2,4-Trimethylpentane
6.585	78752	VV	0.090	1	9.981	Benzene
7.917	229046	VV	0.040	1	24.313	Toluene
8.680	24588	PV	0.053	1	6.170	n-Nonane
8.835	277636	VV	0.045	1	27.140	EBenz, m-,p-Xylene
9.077	81980	VV	0.038	1	8.139	o-Xylene
9.396	180919	VV	0.037	1	696.901	BFB
9.755	279730	VV	0.041	1	29.772	1,2,4-Trimethylbenzene
11.209	131895	VV	0.038	1	462.304	Naphthalene
2.995	23373	PV	0.073		233.726	* uncalibrated *
3.193	40407	VB	0.108		404.066	* uncalibrated *
4.518	40313	VV	0.109		403.126	* uncalibrated *
4.841	27037	VV	0.176		270.366	* uncalibrated *
5.087	18105	VV	0.121		181.046	* uncalibrated *
5.204	14573	VV	0.107		145.731	* uncalibrated *
5.461	31663	VV	0.108		316.626	* uncalibrated *
5.781	1927	PV	0.090		19.265	* uncalibrated *
5.947	28233	VV	0.085		282.335	* uncalibrated *
6.072	67139	VV	0.143		671.392	* uncalibrated *
6.724	10246	VV	0.071		102.459	* uncalibrated *
6.815	8589	VV	0.063		85.886	* uncalibrated *
6.962	37324	VV	0.103		373.236	* uncalibrated *
7.107	18367	VV	0.073		183.672	* uncalibrated *
7.275	54699	VV	0.069		546.988	* uncalibrated *
7.380	91806	VV	0.074		918.064	* uncalibrated *
7.532	60743	VV	0.096		607.434	* uncalibrated *
7.787	25006	PV	0.061		250.057	* uncalibrated *
8.042	12493	VV	0.055		124.928	* uncalibrated *
8.121	10089	VV	0.055		100.885	* uncalibrated *
8.373	62414	VV	0.062		624.139	* uncalibrated *
8.452	31607	VV	0.043		316.073	* uncalibrated *
8.535	4343	VV	0.047		43.428	* uncalibrated *
8.923	43906	VV	0.046		439.060	* uncalibrated *
9.014	34852	VV	0.055		348.515	* uncalibrated *
9.123	129224	VV	0.043		1292.241	* uncalibrated *
9.196	51129	VV	0.039		511.291	* uncalibrated *
9.257	12543	VV	0.039		125.430	* uncalibrated *
9.519	364218	VV	0.087		3642.184	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080805\012F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 ms
in Time Bar Code:
cquired on : 08 Aug 05 02:25 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

9.685	98193	VV	0.068	981.926	* uncalibrated *
9.814	128636	VV	0.059	1286.362	* uncalibrated *
10.004	127746	VV	0.068	1277.465	* uncalibrated *
10.071	286998	VV	0.075	2869.976	* uncalibrated *
10.176	160465	VV	0.055	1604.645	* uncalibrated *
10.269	99035	VV	0.043	990.354	* uncalibrated *
10.318	116439	VV	0.042	1164.387	* uncalibrated *
10.402	238159	VV	0.077	2381.588	* uncalibrated *
10.561	265050	VV	0.078	2650.499	* uncalibrated *
10.640	98111	VV	0.049	981.111	* uncalibrated *
10.690	91165	VV	0.052	911.654	* uncalibrated *
10.756	108813	VV	0.042	1088.133	* uncalibrated *
10.796	125524	VV	0.039	1255.242	* uncalibrated *
10.845	88286	VV	0.041	882.857	* uncalibrated *
10.970	305274	VV	0.071	3052.742	* uncalibrated *
11.070	132323	VV	0.057	1323.227	* uncalibrated *
11.156	87453	VV	0.047	874.533	* uncalibrated *
11.269	95362	VV	0.058	953.619	* uncalibrated *
11.348	94535	VV	0.050	945.346	* uncalibrated *
11.482	287591	VV	0.079	2875.907	* uncalibrated *
11.635	54719	VV	0.054	547.195	* uncalibrated *
11.706	102733	VV	0.054	1027.333	* uncalibrated *
11.759	130522	VV	0.049	1305.216	* uncalibrated *
11.903	86891	VV	0.057	868.911	* uncalibrated *
11.978	49615	VV	0.077	496.147	* uncalibrated *
12.188	25976	PV	0.048	259.759	* uncalibrated *
12.348	3650	PBA	0.013	36.495	* uncalibrated *

alibration table contains at least one peak with amt = 0

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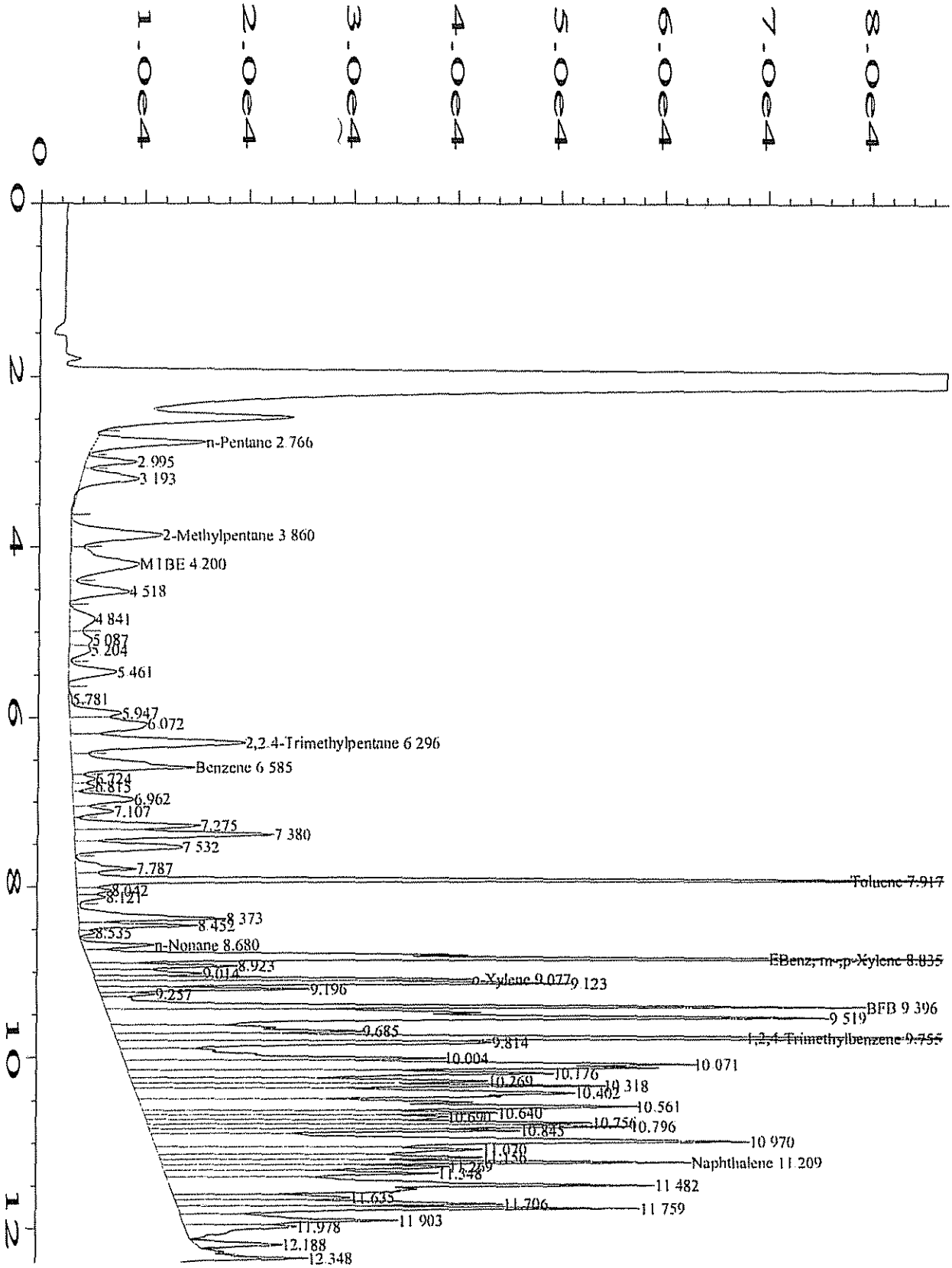

ata File Name	: C:\HPCHEM\1\DATA\vp080805\012F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 12
ample Name	: 147662 x10 ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 02:25 PM	Instrument Method	: GAS1.MTH
eport Created on	: 09 Aug 05 08:34 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\012R0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 ms
un Time Bar Code:
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Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080805\012R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.808	73025	VV	0.146	1	11.645	n-Pentane
3.874	60348	VV	0.153	1	6.391	2-Methylpentane
4.264	98723	VV	0.160	1	3.275	MTBE
6.308	144976	VV	0.124	1	9.528	2,2,4-Trimethylpentane
6.597	228124	VV	0.079	1	2.867	Benzene
7.921	548839	VV	0.044	1	13.451	Toluene
8.689	18919	PV	0.059	1	2.787	n-Nonane
8.837	547580	VV	0.045	1	16.189	ethbzene/m,p-xylene
9.077	150713	VV	0.038	1	3.891	o-Xylene
9.400	669436	VV	0.051	1	45.056	BFB(pid)
9.756	615701	VV	0.056	1	20.054	1,2,4-Trimethylbenzene
11.209	234337	VV	0.040	1	13.388	Naphthalene(pid)
2.035	71460	VV	0.080		714.596	* uncalibrated *
2.154	35343	VV	0.082		353.433	* uncalibrated *
2.504	75810	VV	0.138		758.096	* uncalibrated *
3.002	72348	VV	0.088		723.482	* uncalibrated *
3.197	117217	VV	0.149		1172.168	* uncalibrated *
4.059	20654	VV	0.095		206.541	* uncalibrated *
4.503	37220	VV	0.140		372.198	* uncalibrated *
4.838	47185	VV	0.182		471.852	* uncalibrated *
5.084	14901	VV	0.095		149.013	* uncalibrated *
5.210	25220	VV	0.123		252.204	* uncalibrated *
5.473	17398	VV	0.113		173.983	* uncalibrated *
5.781	1945	PV	0.090		19.453	* uncalibrated *
6.071	78392	VV	0.137		783.916	* uncalibrated *
6.815	12507	VV	0.064		125.073	* uncalibrated *
6.980	28490	VV	0.102		284.903	* uncalibrated *
7.114	24714	VV	0.075		247.144	* uncalibrated *
7.283	64147	VV	0.068		641.475	* uncalibrated *
7.384	122518	VV	0.083		1225.180	* uncalibrated *
7.539	63477	VV	0.098		634.771	* uncalibrated *
7.786	25292	VV	0.089		252.921	* uncalibrated *
8.045	28528	VV	0.101		285.285	* uncalibrated *
8.368	59092	VV	0.085		590.919	* uncalibrated *
8.455	28232	VV	0.047		282.321	* uncalibrated *
8.535	4539	VV	0.047		45.392	* uncalibrated *
8.926	47553	VV	0.061		475.526	* uncalibrated *
9.017	36831	VV	0.050		368.310	* uncalibrated *
9.124	116709	VV	0.046		1167.095	* uncalibrated *
9.198	46287	VV	0.046		462.868	* uncalibrated *
9.260	32921	VV	0.062		329.213	* uncalibrated *

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perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 ms
un Time Bar Code:
cquired on : 08 Aug 05 02:25 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

9.467	130244	VV	0.035	1302.437	* uncalibrated *
9.525	434958	VV	0.064	4349.579	* uncalibrated *
9.687	141657	VV	0.067	1416.574	* uncalibrated *
10.007	213359	VV	0.075	2133.592	* uncalibrated *
10.110	434603	VV	0.081	4346.029	* uncalibrated *
10.178	277539	VV	0.055	2775.391	* uncalibrated *
10.269	157374	VV	0.044	1573.742	* uncalibrated *
10.319	179638	VV	0.045	1796.375	* uncalibrated *
10.410	385681	VV	0.086	3856.813	* uncalibrated *
10.561	477061	VV	0.078	4770.610	* uncalibrated *
10.642	144644	VV	0.047	1446.438	* uncalibrated *
10.695	153753	VV	0.054	1537.526	* uncalibrated *
10.757	179917	VV	0.043	1799.174	* uncalibrated *
10.797	213697	VV	0.040	2136.974	* uncalibrated *
10.845	165905	VV	0.045	1659.049	* uncalibrated *
10.972	515735	VV	0.093	5157.349	* uncalibrated *
11.071	229027	VV	0.060	2290.270	* uncalibrated *
11.158	141123	VV	0.039	1411.229	* uncalibrated *
11.269	166909	VV	0.059	1669.087	* uncalibrated *
11.349	176001	VV	0.053	1760.007	* uncalibrated *
11.484	475905	VV	0.084	4759.051	* uncalibrated *
11.635	83325	VV	0.054	833.248	* uncalibrated *
11.707	155485	VV	0.055	1554.851	* uncalibrated *
11.759	255744	VV	0.051	2557.436	* uncalibrated *
11.903	151412	VV	0.055	1514.123	* uncalibrated *
11.976	78411	VV	0.079	784.114	* uncalibrated *
12.190	36439	PV	0.049	364.388	* uncalibrated *

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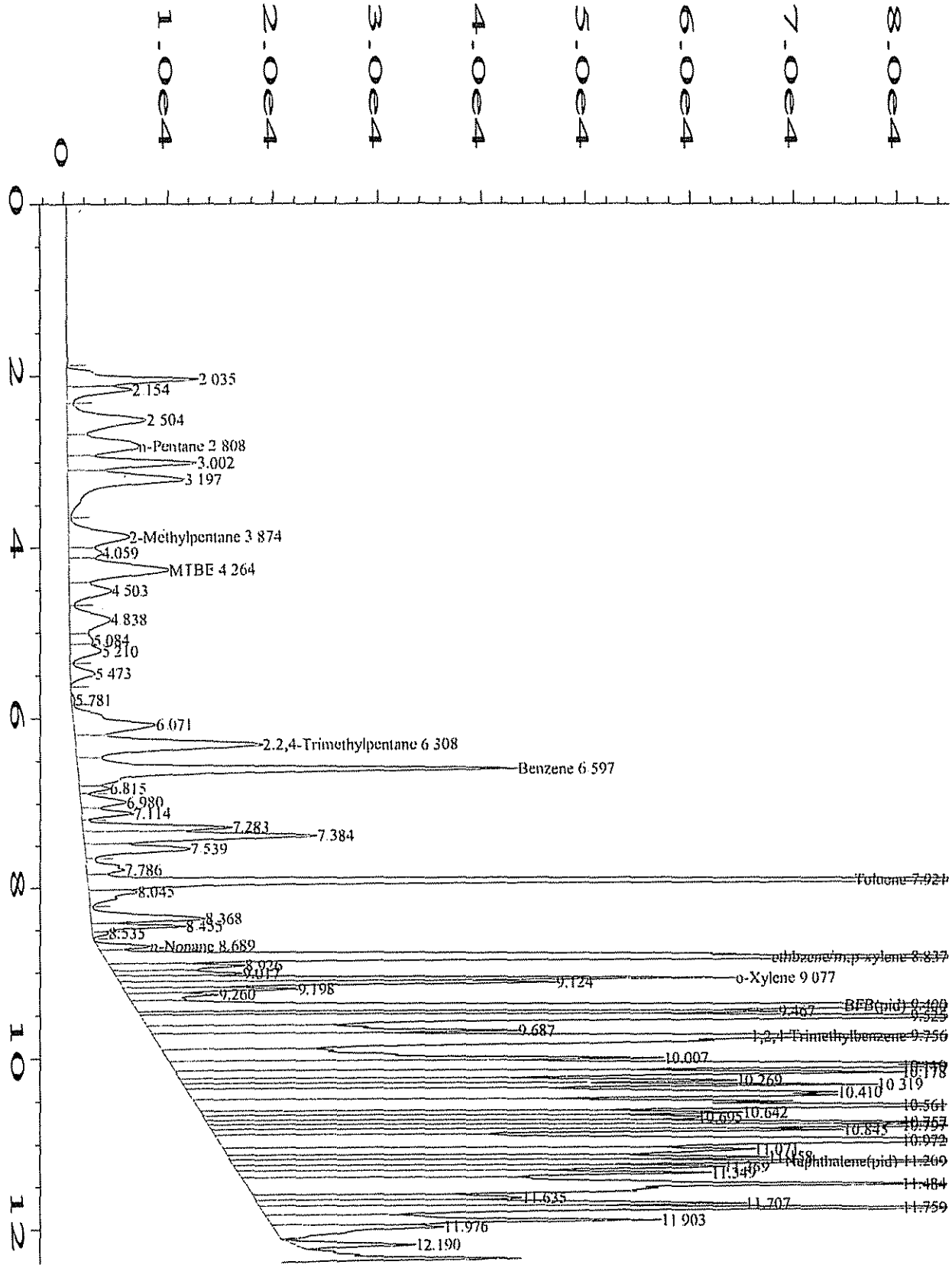

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nstrument	: FID/PID	Vial Number	: 12
ample Name	: 147662 x10 ms	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 02:25 PM	Instrument Method:	GAS1.MTH
eport Created on:	09 Aug 05 08:34 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\013F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 msd
un Time Bar Code:
cquired on : 08 Aug 05 02:50 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080805\013F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.763	52836	BV	0.090	1	52.701	n-Pentane
3.854	70393	BV	0.131	1	12.503	2-Methylpentane
4.195	71659	VV	0.170	1	167.979	MTBE
6.295	115614	VV	0.110	1	22.206	2,2,4-Trimethylpentane
6.583	73628	VV	0.093	1	9.332	Benzene
7.917	217484	VV	0.041	1	23.086	Toluene
8.681	24413	PV	0.053	1	6.126	n-Nonane
8.836	271675	VV	0.046	1	26.557	EBenz, m-,p-Xylene
9.078	78927	VV	0.037	1	7.836	o-Xylene
9.397	183634	VV	0.038	1	707.358	BFB
9.756	290290	VV	0.042	1	30.896	1,2,4-Trimethylbenzene
11.210	135222	VV	0.039	1	424.968	Naphthalene
2.990	20123	PV	0.071		201.234	* uncalibrated *
3.188	34284	VB	0.104		342.842	* uncalibrated *
4.513	37576	VV	0.112		375.756	* uncalibrated *
4.835	24738	VV	0.172		247.376	* uncalibrated *
5.082	17751	VV	0.123		177.512	* uncalibrated *
5.199	12790	VV	0.103		127.900	* uncalibrated *
5.458	27720	VV	0.107		277.200	* uncalibrated *
5.778	1802	PV	0.091		18.020	* uncalibrated *
5.944	27590	VV	0.086		275.900	* uncalibrated *
6.072	64004	VV	0.126		640.040	* uncalibrated *
6.723	9591	VV	0.072		95.908	* uncalibrated *
6.814	7884	VV	0.063		78.842	* uncalibrated *
6.962	36747	VV	0.102		367.471	* uncalibrated *
7.106	17437	VV	0.073		174.371	* uncalibrated *
7.275	53720	VV	0.069		537.203	* uncalibrated *
7.379	90577	VV	0.074		905.774	* uncalibrated *
7.532	60431	VV	0.096		604.313	* uncalibrated *
7.787	24580	PV	0.061		245.798	* uncalibrated *
8.043	12309	VV	0.055		123.087	* uncalibrated *
8.121	10051	VV	0.055		100.507	* uncalibrated *
8.374	62601	VV	0.062		626.012	* uncalibrated *
8.453	31886	VV	0.043		318.863	* uncalibrated *
8.536	4368	VV	0.044		43.682	* uncalibrated *
8.924	45094	VV	0.046		450.936	* uncalibrated *
9.015	38325	VV	0.050		383.253	* uncalibrated *
9.124	133190	VV	0.044		1331.901	* uncalibrated *
9.197	68299	VV	0.047		682.986	* uncalibrated *
9.520	371959	VV	0.071		3719.591	* uncalibrated *
9.686	102362	VV	0.069		1023.620	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080805\013F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 msd
un Time Bar Code:
cquired on : 08 Aug 05 02:50 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

9.814	132537	VV	0.059	1325.367	* uncalibrated *
10.006	139061	VV	0.071	1390.609	* uncalibrated *
10.072	167896	VV	0.049	1678.957	* uncalibrated *
10.110	132404	VV	0.041	1324.038	* uncalibrated *
10.177	168886	VV	0.055	1688.859	* uncalibrated *
10.270	104122	VV	0.043	1041.222	* uncalibrated *
10.319	121917	VV	0.043	1219.171	* uncalibrated *
10.403	250926	VV	0.078	2509.264	* uncalibrated *
10.563	277470	VV	0.078	2774.703	* uncalibrated *
10.641	101578	VV	0.048	1015.779	* uncalibrated *
10.690	95148	VV	0.052	951.483	* uncalibrated *
10.757	113511	VV	0.042	1135.111	* uncalibrated *
10.797	129704	VV	0.039	1297.041	* uncalibrated *
10.846	94614	VV	0.042	946.138	* uncalibrated *
10.972	314177	VV	0.071	3141.765	* uncalibrated *
11.070	137867	VV	0.057	1378.671	* uncalibrated *
11.157	89532	VV	0.040	895.320	* uncalibrated *
11.270	98848	VV	0.058	988.479	* uncalibrated *
11.349	97414	VV	0.050	974.138	* uncalibrated *
11.483	292659	VV	0.080	2926.593	* uncalibrated *
11.635	55518	VV	0.054	555.182	* uncalibrated *
11.707	102061	VV	0.054	1020.608	* uncalibrated *
11.760	127877	VV	0.049	1278.773	* uncalibrated *
11.904	84767	VV	0.057	847.666	* uncalibrated *
11.978	47907	VV	0.076	479.072	* uncalibrated *
12.188	24546	PV	0.049	245.463	* uncalibrated *
12.349	15600	PBA	0.032	155.996	* uncalibrated *

alibration table contains at least one peak with amt = 0

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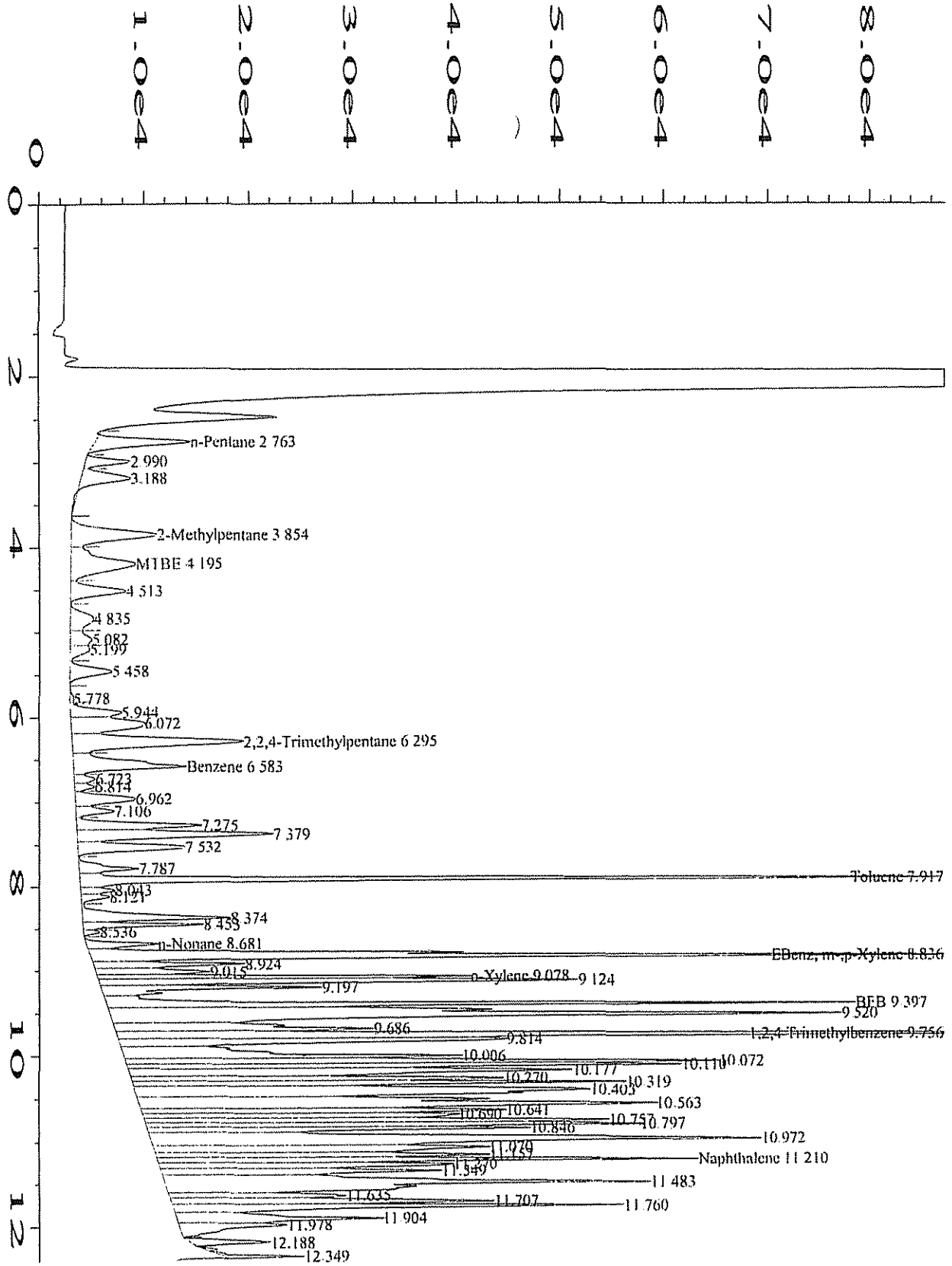

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erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 13
mple Name	: 147662 x10 msd	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 08 Aug 05 02:50 PM	Instrument Method:	GAS1.MTH
port Created on:	09 Aug 05 08:34 AM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\013R0101.D
perator : DCS
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Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080805\013R0101.D

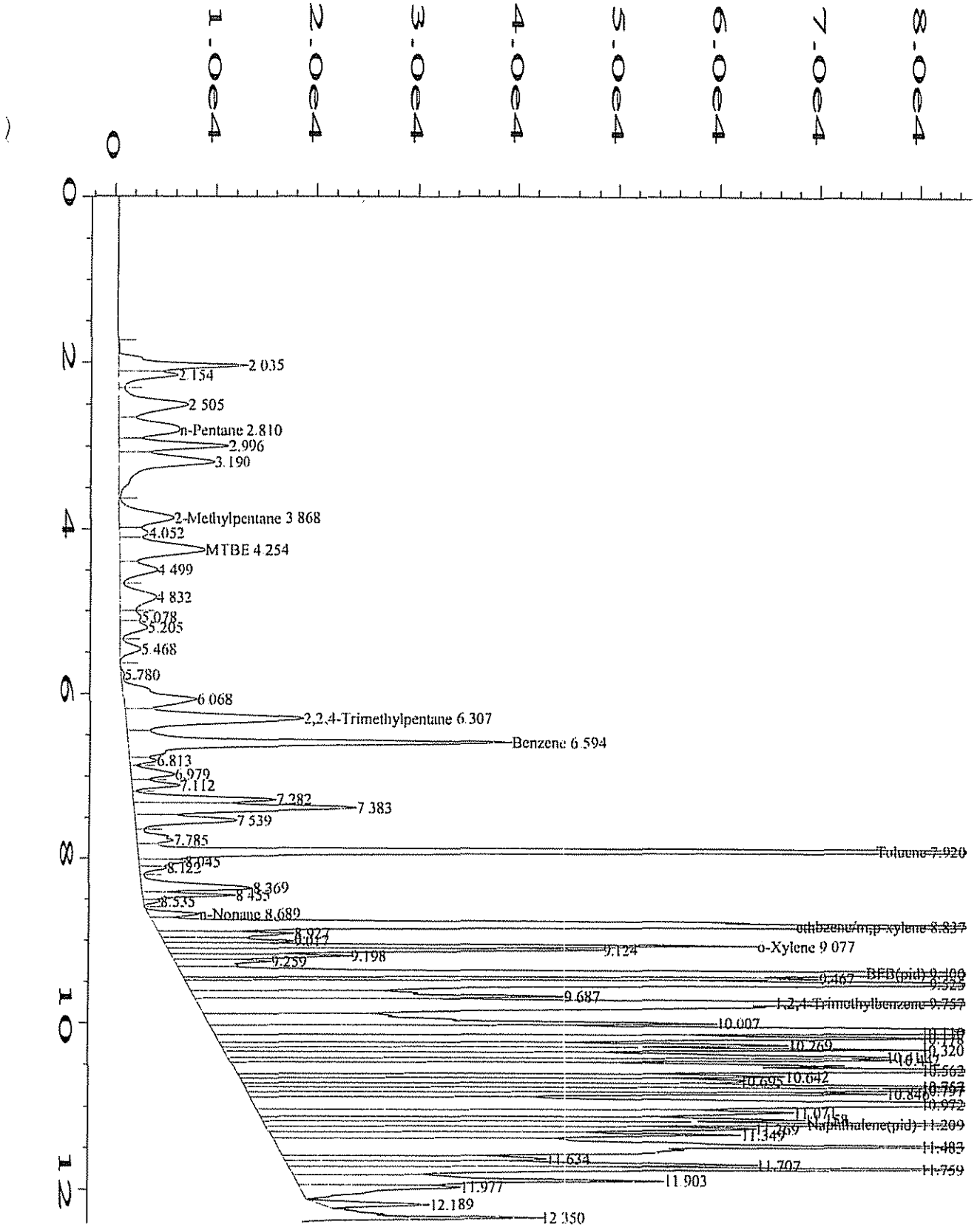
et Time	Area	Type	Width	Ref#	ug/L	Name
2.810	64993	VV	0.145	1	10.364	n-Pentane
3.868	55840	VV	0.154	1	5.913	2-Methylpentane
4.254	89130	VV	0.159	1	2.957	MTBE
6.307	142953	VV	0.124	1	9.395	2,2,4-Trimethylpentane
6.594	208202	VV	0.079	1	2.617	Benzene
7.920	521242	VV	0.044	1	12.774	Toluene
8.689	19105	PV	0.059	1	2.815	n-Nonane
8.837	536421	VV	0.045	1	15.859	ethbzene/m,p-xylene
9.077	150709	VV	0.038	1	3.891	o-Xylene
9.400	665081	VV	0.051	1	44.763	BFB(pid)
9.757	643986	VV	0.057	1	20.975	1,2,4-Trimethylbenzene
11.209	241206	VV	0.041	1	13.781	Naphthalene(pid)
2.035	70906	BV	0.076		709.059	* uncalibrated *
2.154	33694	VV	0.082		336.939	* uncalibrated *
2.505	70016	VV	0.139		700.160	* uncalibrated *
2.996	63379	VV	0.088		633.788	* uncalibrated *
3.190	100724	VV	0.157		1007.241	* uncalibrated *
4.052	18362	VV	0.093		183.623	* uncalibrated *
4.499	34602	VV	0.141		346.017	* uncalibrated *
4.832	43722	VV	0.181		437.221	* uncalibrated *
5.078	14323	VV	0.100		143.235	* uncalibrated *
5.205	22743	VV	0.123		227.428	* uncalibrated *
5.468	15497	VV	0.116		154.972	* uncalibrated *
5.780	1770	PV	0.085		17.700	* uncalibrated *
6.068	74519	VV	0.154		745.188	* uncalibrated *
6.813	11185	VV	0.063		111.851	* uncalibrated *
6.979	27627	VV	0.102		276.268	* uncalibrated *
7.112	23387	VV	0.075		233.872	* uncalibrated *
7.282	63345	VV	0.068		633.448	* uncalibrated *
7.383	122098	VV	0.083		1220.978	* uncalibrated *
7.539	63194	VV	0.099		631.936	* uncalibrated *
7.785	24042	VV	0.088		240.417	* uncalibrated *
8.045	18366	VV	0.067		183.662	* uncalibrated *
8.122	9024	VV	0.058		90.241	* uncalibrated *
8.369	59370	VV	0.085		593.702	* uncalibrated *
8.455	28755	VV	0.047		287.547	* uncalibrated *
8.535	4640	VV	0.047		46.402	* uncalibrated *
8.927	49394	VV	0.061		493.942	* uncalibrated *
9.017	39552	VV	0.051		395.525	* uncalibrated *
9.124	122895	VV	0.047		1228.945	* uncalibrated *
9.198	51144	VV	0.048		511.440	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080805\013R0101.D
perator : DCS
nstrument : FID/PID
ample Name : 147662 x10 msd
in Time Bar Code:
cquired on : 08 Aug 05 02:50 PM
eport Created on: 09 Aug 05 08:34 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

9.259	37009	VV	0.064	370.088	* uncalibrated *
9.467	135026	VV	0.035	1350.263	* uncalibrated *
9.525	449903	VV	0.065	4499.028	* uncalibrated *
9.687	149994	VV	0.068	1499.939	* uncalibrated *
10.007	235137	VV	0.078	2351.373	* uncalibrated *
10.110	460480	VV	0.082	4604.805	* uncalibrated *
10.178	295509	VV	0.056	2955.087	* uncalibrated *
10.269	167776	VV	0.044	1677.758	* uncalibrated *
10.320	190325	VV	0.045	1903.252	* uncalibrated *
10.411	237204	VV	0.060	2372.041	* uncalibrated *
10.442	174977	VV	0.044	1749.771	* uncalibrated *
10.562	503389	VV	0.079	5033.890	* uncalibrated *
10.642	152030	VV	0.047	1520.299	* uncalibrated *
10.695	161861	VV	0.054	1618.615	* uncalibrated *
10.757	189094	VV	0.043	1890.941	* uncalibrated *
10.797	222619	VV	0.041	2226.193	* uncalibrated *
10.846	175265	VV	0.046	1752.649	* uncalibrated *
10.972	538526	VV	0.094	5385.259	* uncalibrated *
11.071	238808	VV	0.060	2388.079	* uncalibrated *
11.158	146864	VV	0.039	1468.643	* uncalibrated *
11.269	173835	VV	0.059	1738.348	* uncalibrated *
11.349	181203	VV	0.053	1812.025	* uncalibrated *
11.483	487651	VV	0.085	4876.509	* uncalibrated *
11.634	85086	VV	0.054	850.864	* uncalibrated *
11.707	155597	VV	0.055	1555.974	* uncalibrated *
11.759	251675	VV	0.052	2516.753	* uncalibrated *
11.903	148125	VV	0.056	1481.252	* uncalibrated *
11.977	76128	VV	0.079	761.284	* uncalibrated *
12.189	34737	PV	0.049	347.366	* uncalibrated *
12.350	20367	PBA	0.026	203.670	* uncalibrated *

==========



ta File Name	: C:\HPCHEM\1\DATA\vp080805\013R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 13
mple Name	: 147662 x10 msd	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 08 Aug 05 02:50 PM	Instrument Method:	GAS1.MTH
port Created on:	09 Aug 05 08:34 AM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080805\006F0101.D
perator : DCS
nstrument : FID/PID
ample Name : vblk4080805a
un Time Bar Code:
cquired on : 08 Aug 05 10:36 AM
eport Created on: 08 Aug 05 10:57 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

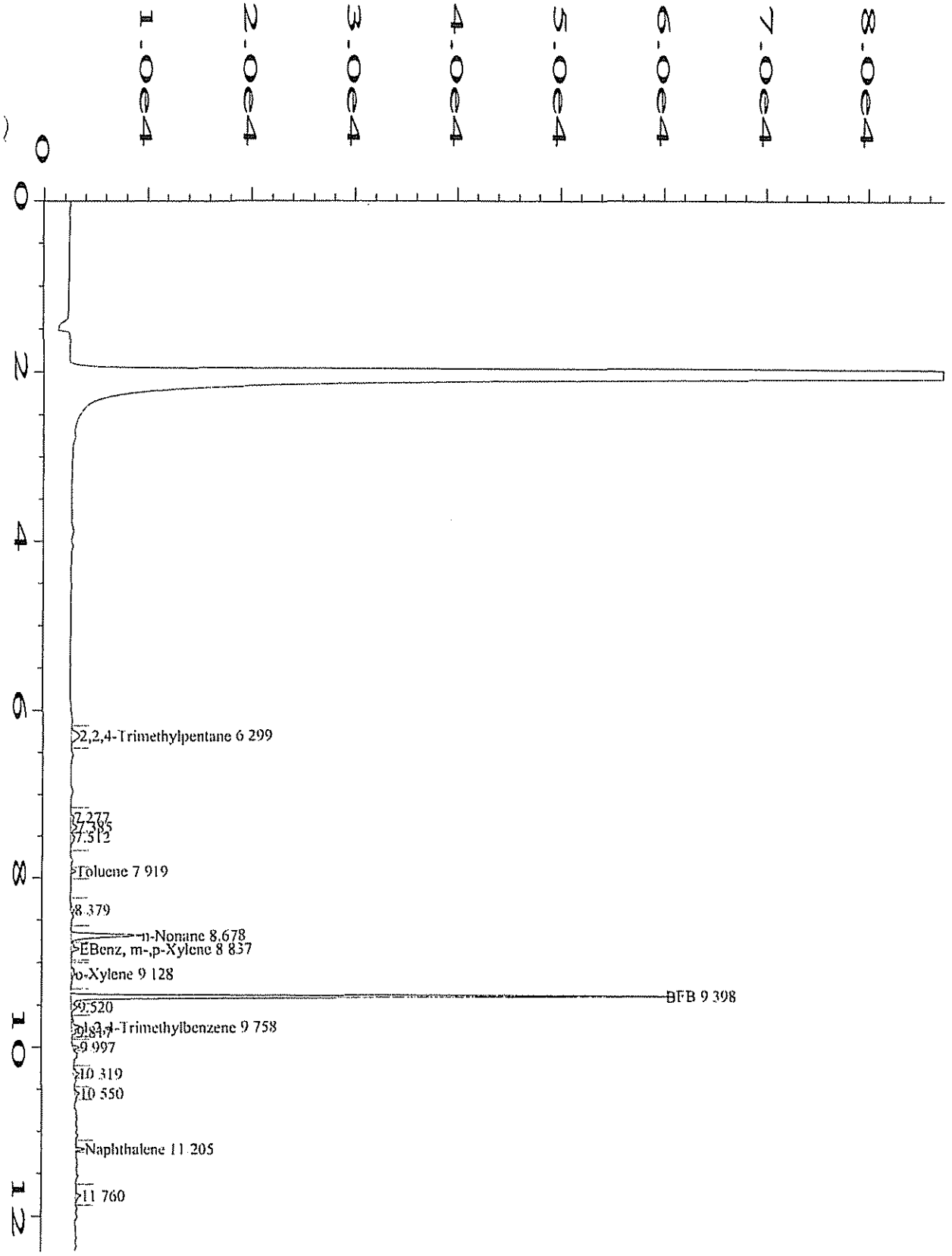
Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080805\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.299	4957	VV	0.097	1	0.952	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.919	1197	BV	0.039	1	0.127	Toluene
8.678	19064	BV	0.042	1	4.783	n-Nonane
8.837	2683	VB	0.047	1	0.262	EBenz, m-,p-Xylene
9.128	1482	BV	0.058	1	0.147	o-Xylene
9.398	106646	BV	0.029	1	410.799	BFB
9.758	3340	VV	0.047	1	0.355	1,2,4-Trimethylbenzene
11.205	1607	VV	0.029	1	0.379	Naphthalene
7.277	1265	BV	0.062		12.648	* uncalibrated *
7.385	2857	VV	0.074		28.566	* uncalibrated *
7.512	2320	VB	0.086		23.196	* uncalibrated *
8.379	1300	BV	0.054		13.001	* uncalibrated *
9.520	2237	VV	0.052		22.369	* uncalibrated *
9.817	1208	VB	0.042		12.081	* uncalibrated *
9.997	1361	BV	0.030		13.609	* uncalibrated *
10.319	1784	BV	0.050		17.837	* uncalibrated *
10.550	1579	PV	0.047		15.793	* uncalibrated *
11.760	1994	BV	0.050		19.942	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\vp080805\006F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: vblk4080805a	Injection Number	: 1
an Time Bar Code:		Sequence Line	: 1
equired on	: 08 Aug 05 10:36 AM	Instrument Method:	GAS1.MTH
eport Created on:	08 Aug 05 10:57 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

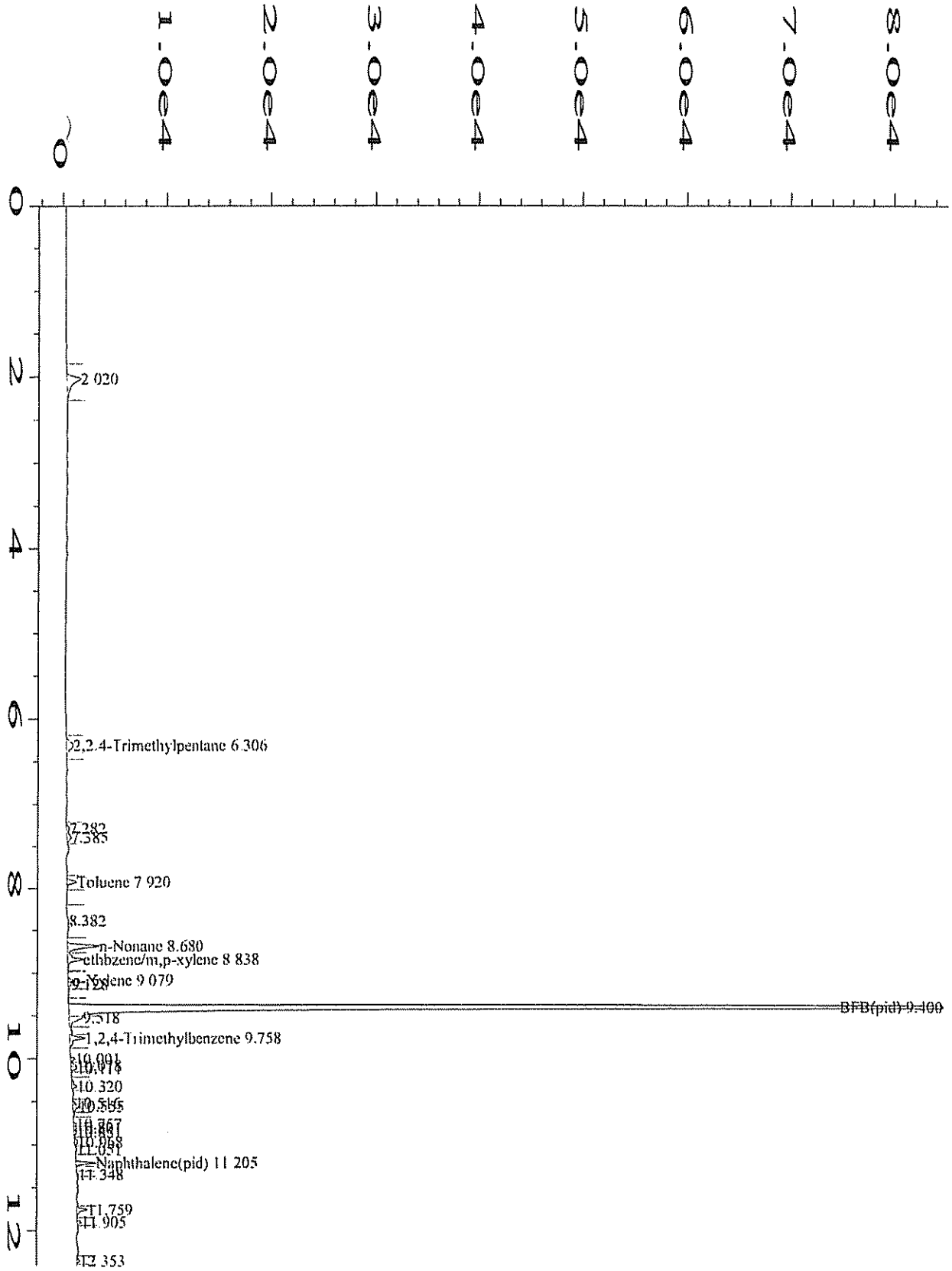
ıta File Name : C:\HPCHEM\1\DATA\vp080805\006R0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : vblk4080805a
ın Time Bar Code:
:quired on : 08 Aug 05 10:36 AM
ɜport Created on: 08 Aug 05 10:57 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ıg. 2 in C:\HPCHEM\1\DATA\vp080805\006R0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.306	4601	BV	0.102	1	0.302	2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.920	2500	BV	0.040	1	0.0613	Toluene
8.680	8849	BV	0.044	1	1.304	n-Nonane
8.838	4740	VB	0.044	1	0.140	ethbzene/m,p-xylene
9.079	1018	BV	0.034	1	0.0263	o-Xylene
9.400	491769	BV	0.032	1	33.098	BFB(pid)
9.758	4512	VV	0.043	1	0.147	1,2,4-Trimethylbenzene
11.205	3411	VV	0.028	1	0.195	Naphthalene(pid)
2.020	8679	BV	0.086		86.787	* uncalibrated *
7.282	1148	BV	0.063		11.479	* uncalibrated *
7.385	1879	VV	0.066		18.794	* uncalibrated *
8.382	317	BV	0.031		3.169	* uncalibrated *
9.128	780	VV	0.039		7.804	* uncalibrated *
9.518	4923	VV	0.061		49.232	* uncalibrated *
10.001	940	PV	0.032		9.405	* uncalibrated *
10.078	1015	VV	0.029		10.150	* uncalibrated *
10.111	1239	VV	0.033		12.392	* uncalibrated *
10.320	1667	BV	0.045		16.669	* uncalibrated *
10.516	507	PV	0.028		5.071	* uncalibrated *
10.555	1898	VV	0.044		18.976	* uncalibrated *
10.757	518	PV	0.030		5.180	* uncalibrated *
10.801	614	VV	0.033		6.143	* uncalibrated *
10.851	661	VV	0.035		6.612	* uncalibrated *
10.968	1096	VV	0.056		10.959	* uncalibrated *
11.051	657	VV	0.047		6.573	* uncalibrated *
11.348	218	PV	0.027		2.183	* uncalibrated *
11.759	2579	VV	0.037		25.793	* uncalibrated *
11.905	670	PV	0.029		6.698	* uncalibrated *
12.353	765	VBA	0.041		7.653	* uncalibrated *

ɔt all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\vp080805\006R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: vblk4080805a	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Aug 05 10:36 AM	Instrument Method	: GAS1.MTH
eport Created on	: 08 Aug 05 10:57 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\vp080805\012F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G211-1840-8A x10 ms
Run Time Bar Code: 147662
Acquired on : 08 Aug 05 02:25 PM
Report Created on: 09 Aug 05 08:34 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

984
976

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\vp080805\012F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.766	62371	BV	0.088	1	62.211	n-Pentane
3.860	75036	BV	0.130	1	13.327	2-Methylpentane
4.200	78550	VV	0.176	1	184.131	MTBE
6.296	118018	VV	0.110	1	22.668	2,2,4-Trimethylpentane
6.585	78752	VV	0.090	1	9.981	Benzene
7.917	229046	VV	0.040	1	24.313	Toluene
8.680	24588	PV	0.053	1	6.170	n-Nonane
8.835	277636	VV	0.045	1	27.140	EBenz, m-,p-Xylene
9.077	81980	VV	0.038	1	8.139	o-Xylene
9.396	180919	VV	0.037	1	696.901	BFB
9.755	279730	VV	0.041	1	29.772	1,2,4-Trimethylbenzene
11.209	131895	VV	0.038	1	462.304	Naphthalene
2.995	23373	PV	0.073		233.726	* uncalibrated *
3.193	40407	VB	0.108		404.066	* uncalibrated *
4.518	40313	VV	0.109		403.126	* uncalibrated *
4.841	27037	VV	0.176		270.366	* uncalibrated *
5.087	18105	VV	0.121		181.046	* uncalibrated *
5.204	14573	VV	0.107		145.731	* uncalibrated *
5.461	31663	VV	0.108		316.626	* uncalibrated *
5.781	1927	PV	0.090		19.265	* uncalibrated *
5.947	28233	VV	0.085		282.335	* uncalibrated *
6.072	67139	VV	0.143		671.392	* uncalibrated *
6.724	10246	VV	0.071		102.459	* uncalibrated *
6.815	8589	VV	0.063		85.886	* uncalibrated *
6.962	37324	VV	0.103		373.236	* uncalibrated *
7.107	18367	VV	0.073		183.672	* uncalibrated *
7.275	54699	VV	0.069		546.988	* uncalibrated *
7.380	91806	VV	0.074		918.064	* uncalibrated *
7.532	60743	VV	0.096		607.434	* uncalibrated *
7.787	25006	PV	0.061		250.057	* uncalibrated *
8.042	12493	VV	0.055		124.928	* uncalibrated *
8.121	10089	VV	0.055		100.885	* uncalibrated *
8.373	62414	VV	0.062		624.139	* uncalibrated *
8.452	31607	VV	0.043		316.073	* uncalibrated *
8.535	4343	VV	0.047		43.428	* uncalibrated *
8.923	43906	VV	0.046		439.060	* uncalibrated *
9.014	34852	VV	0.055		348.515	* uncalibrated *
9.123	129224	VV	0.043		1292.241	* uncalibrated *
9.196	51129	VV	0.039		511.291	* uncalibrated *
9.257	12543	VV	0.039		125.430	* uncalibrated *
9.519	364218	VV	0.087		3642.184	* uncalibrated *
9.685	98193	VV	0.068		981.926	* uncalibrated *
9.814	128636	VV	0.059		1286.362	* uncalibrated *

VPH Prep, Standard, Run Logs

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp080805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	b	8/8/05 8:29				DCS		
002F0101.D	V 500	8/8/05 8:55				DCS		
003F0101.D	b	8/8/05 9:20				DCS		
004F0101.D	G500	8/8/05 9:45				DCS		
005F0101.D	lcs4080805a	8/8/05 10:11				DCS		
006F0101.D	vblk4080805a	8/8/05 10:36				DCS		
007F0101.D	g547-47-1d x5	8/8/05 11:12				DCS		
008F0101.D	b	8/8/05 11:38				DCS		
009F0101.D	g546-47-2a x1	8/8/05 12:03				DCS		
010F0101.D	g211-1840-6a x10	8/8/05 13:34				DCS		
011F0101.D	g211-1840-8a x10	8/8/05 13:59				DCS		
012F0101.D	G211-1840-8A x10 ms	8/8/05 14:25	cid= 147662			DCS		
013F0101.D	G211-1840-8A x10 msd	8/8/05 14:50	cid= 147662			DCS		
014F0101.D	g510-241-7b x100	8/8/05 15:15				DCS		
015F0101.D	g510-241-8a x100	8/8/05 15:41				DCS		
016F0101.D	g161-2101-1d x1	8/8/05 16:06				DCS		
017F0101.D	g161-2101-2a x1	8/8/05 16:31				DCS		
018F0101.D	g161-2101-3a x1	8/8/05 16:56				DCS		
019F0101.D	g161-2101-4a x1	8/8/05 17:22				DCS		
020F0101.D	g161-2101-5a x1	8/8/05 17:47				DCS		

Analyst: _____

Page Number: _____

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp080805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
021F0101.D	G211-1840-16A x50	8/8/05 18:12	cid= 147670			DCS		
022F0101.D	b	8/8/05 18:37				DCS		
023F0101.D	g204-475-1a	8/8/05 19:03				DCS		
024F0101.D	g204-475-2a	8/8/05 19:28				DCS		
025F0101.D	g161-2103-1e x1	8/8/05 19:53				DCS		

Analyst: _____

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Volatiles Standard Logbook # 6 **Working Standard**
Paradigm Analytical

ID: VPH-QC-7-071405

referring page	Item	Lot Number	Components	Vendor	initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A029644	MA VPH	Restek	500-1500	1200	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 7/14/05
Expires: 2/14/06

Comments:

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date. and z is an additional identifier

Page:

EPH Sample Raw Data

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP081605\013F0901.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 13
Sample Name	: G161-2103-1N x1 K	Injection Number	: 1
Run Time Bar Code	: 151862	Sequence Line	: 9
Acquired on	: 16 Aug 05 8:29:21 PM	Instrument Method	: PROEPH.M
Report Created on	: 17 Aug 2005 8:40:17 AM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 12 Aug 2005 9:02:21 AM	Sample Amount	: 10 ml
Multiplier	: 1.0000	ISTD Amount	:

DCS 8/17

Sig. 1 in C:\HPCHEM\1\DATA\EP081605\013F0901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.067	1.43409	BP	0.01	1	1.724e-6	nonane
3.883	9.46296	VB	0.02	2	1.138e-5	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.898	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.080	0.00000	XX	0.00	8	0.00000	octadecane
9.570	0.00000	XX	0.00	9	0.00000	OTP
9.688	12.54358	VV	0.08	10	1.508e-5	nonadecane
9.909	9.01304	VV	0.09	11	1.084e-5	eicosane
11.016	3.92695	VV	0.04	12	4.722e-6	docosane
11.385	1913.64221	VB	0.03	13	0.00230	COD
11.888	0.00000	XX	0.00	14	0.00000	tetracosane
12.658	0.00000	XX	0.00	15	0.00000	hexacosane
13.284	0.00000	XX	0.00	16	0.00000	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.517	5.66188	PV	0.02	1	6.808e-6	* uncalibrated *
0.557	306.58139	VV	0.01	2	0.00037	* uncalibrated *
1.707	8.18220e7	VVS	1.00	3	98.37833	* uncalibrated *
1.866	9.02633e5	VPS	0.01	4	1.08528	* uncalibrated *
1.921	5.75635e4	VVS	0.04	5	0.06921	* uncalibrated *
1.966	3.57772e4	VVS	0.03	6	0.04302	* uncalibrated *
2.019	3.18780e4	VVS	0.03	7	0.03833	* uncalibrated *
2.059	2.91032e4	VVS	0.03	8	0.03499	* uncalibrated *
2.115	3.15985e4	VVS	0.03	9	0.03799	* uncalibrated *
2.163	2.80640e4	VVS	0.03	10	0.03374	* uncalibrated *
2.216	3.57067e4	VVS	0.05	11	0.04293	* uncalibrated *
2.280	1.95754e4	VVS	0.02	12	0.02354	* uncalibrated *
2.318	2.43994e4	VVS	0.03	13	0.02934	* uncalibrated *
2.389	2.91217e4	VVS	0.04	14	0.03501	* uncalibrated *
2.431	2.05903e4	VVS	0.02	15	0.02476	* uncalibrated *
2.480	2.06091e4	VVS	0.03	16	0.02478	* uncalibrated *
2.529	2.29525e4	VVS	0.03	17	0.02760	* uncalibrated *
2.577	1.57180e4	VVS	0.02	18	0.01890	* uncalibrated *
2.623	1.71395e4	VVS	0.03	19	0.02061	* uncalibrated *
2.665	9280.93359	VVS	0.02	20	0.01116	* uncalibrated *
2.707	8210.56543	VVS	0.03	21	0.00987	* uncalibrated *
2.774	6518.54980	VBAS	0.04	22	0.00784	* uncalibrated *
5.110	2.99771	BB	0.02	23	3.604e-6	* uncalibrated *
6.328	3.55381	PB	0.02	24	4.273e-6	* uncalibrated *
10.557	4.47565	VV	0.05	25	5.381e-6	* uncalibrated *

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\EP081605\014F1001.D
perator : DCS
nstrument : GC6
ample Name : G161-2103-1N x1 R
un Time Bar Code: 151862
cquired on : 16 Aug 05 8:56:54 PM
eport Created on: 17 Aug 2005 8:40:25 AM
ast Recalib on : 12 Aug 2005 9:03:08 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 14
Injection Number : 1
Sequence Line : 10
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\EP081605\014F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.463	17.68029	BP	0.04	1	3.281e-5	naphthalene
6.141	0.00000	XX	0.00	2	0.00000	2-methylnaphthalene
6.631	8970.19141	VB	0.03	3	0.01665	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.306	6256.36182	PB	0.03	5	0.01161	2-BrN(frac)
7.362	0.00000	XX	0.00	6	0.00000	acenaphthene
7.920	0.00000	XX	0.00	7	0.00000	fluorene
9.090	0.00000	XX	0.00	8	0.00000	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.551	1664.52808	BB	0.02	10	0.00309	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.675	0.00000	XX	0.00	12	0.00000	pyrene
11.428	0.00000	XX	0.00	13	0.00000	COD
12.039	0.00000	XX	0.00	14	0.00000	benzo(a)anthracene
12.434	21.83500	BB	0.06	15	4.052e-5	chrysene
12.961	2.85757	BB	0.03	16	5.303e-6	benzo(b)fluoranthene
13.270	0.00000	XX	0.00	17	0.00000	benzo(k)fluoranthene
13.451	4.24207	PB	0.03	18	7.872e-6	benzo(a)pyrene
14.338	3.22028	PB	0.02	19	5.976e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.745	2.79666	BB	0.02	21	5.190e-6	benzo(g,h,i)perylene
0.551	245.24294	BV	0.01	1	0.00046	* uncalibrated *
0.581	134.04097	VV	0.01	2	0.00025	* uncalibrated *
1.361	4.88914e7	VVS	0.64	3	90.73093	* uncalibrated *
1.450	8.74861e5	VVS	0.01	4	1.62354	* uncalibrated *
1.510	2.47696e5	VVS	0.03	5	0.45967	* uncalibrated *
1.554	2.33606e5	VVS	0.03	6	0.43352	* uncalibrated *
1.614	2.90789e5	VVS	0.05	7	0.53964	* uncalibrated *
1.670	2.38010e5	VVS	0.04	8	0.44169	* uncalibrated *
1.726	2.10918e5	VVS	0.04	9	0.39141	* uncalibrated *
1.771	2.13858e5	VVS	0.03	10	0.39687	* uncalibrated *
1.850	2.20556e5	VVS	0.04	11	0.40930	* uncalibrated *
1.900	3.11534e5	VVS	0.07	12	0.57813	* uncalibrated *
1.997	2.61926e5	VVS	0.05	13	0.48607	* uncalibrated *
2.061	1.59309e5	VVS	0.02	14	0.29564	* uncalibrated *
2.100	1.51346e5	VVS	0.03	15	0.28086	* uncalibrated *
2.161	1.51244e5	VVS	0.02	16	0.28067	* uncalibrated *
2.194	1.17864e5	VVS	0.02	17	0.21873	* uncalibrated *
2.238	1.52638e5	VVS	0.03	18	0.28326	* uncalibrated *
2.295	1.19547e5	VVS	0.03	19	0.22185	* uncalibrated *
2.345	1.64365e5	VVS	0.04	20	0.30502	* uncalibrated *
2.397	1.45772e5	VVS	0.03	21	0.27052	* uncalibrated *
2.450	1.24288e5	VVS	0.02	22	0.23065	* uncalibrated *

```
==================================================================
Injection Date  : 8/16/2005 8:29:21 PM          Seq. Line :   9
Sample Name     : 151862 x1 K                    Location : Vial 13
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081605A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 8/12/2005 9:02:25 AM by DCS
TPH
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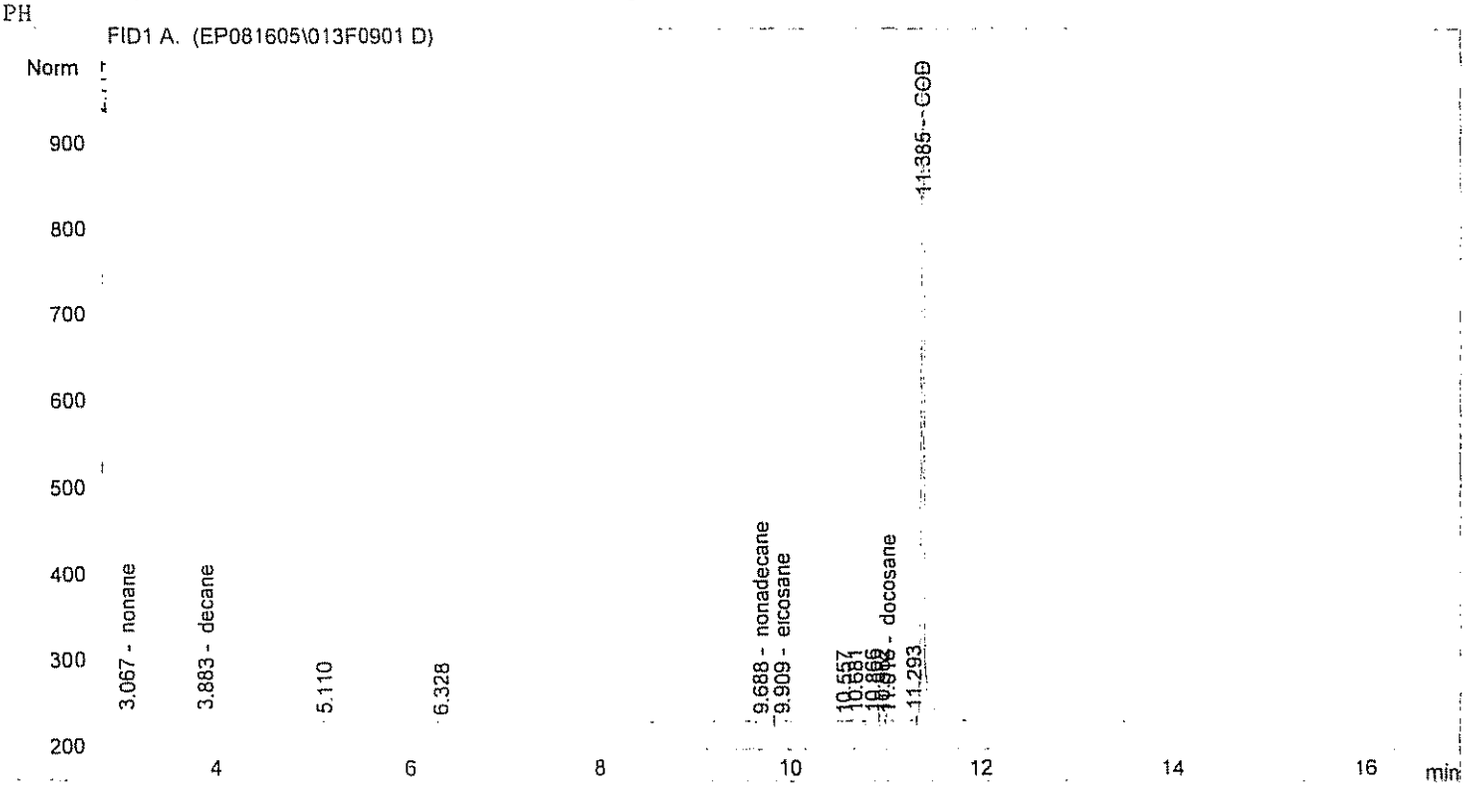


```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:02:21 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.067	BP	0.0138	1.43409	1.724e-6	nonane
2	3.883	VB	0.0259	9.46296	1.138e-5	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.898		0.0000	0.00000	0.00000	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.570		0.0000	0.00000	0.00000	OTP
10	9.688	VV	0.0865	12.54358	1.508e-5	nonadecane
11	9.909	VV	0.0981	9.01304	1.084e-5	eicosane
12	11.016	VV	0.0434	3.92695	4.722e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.385	VB	0.0303	1913.64221	0.00230	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 1950.02283 2.345e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.517	PV	0.0262	5.66188	6.808e-6	?
2	0.557	VV	0.0166	306.58139	0.00037	?
3	1.707	VV S	1.0098	8.18220e7	98.37833	?
4	1.866	VP S	0.0189	9.02633e5	1.08528	?
5	1.921	VV S	0.0488	5.75635e4	0.06921	?
6	1.966	VV S	0.0329	3.57772e4	0.04302	?
7	2.019	VV S	0.0352	3.18780e4	0.03833	?
8	2.059	VV S	0.0369	2.91032e4	0.03499	?
9	2.115	VV S	0.0371	3.15985e4	0.03799	?
10	2.163	VV S	0.0304	2.80640e4	0.03374	?
11	2.216	VV S	0.0557	3.57067e4	0.04293	?
12	2.280	VV S	0.0278	1.95754e4	0.02354	?
13	2.318	VV S	0.0390	2.43994e4	0.02934	?
14	2.389	VV S	0.0437	2.91217e4	0.03501	?
15	2.431	VV S	0.0282	2.05903e4	0.02476	?
16	2.480	VV S	0.0302	2.06091e4	0.02478	?
17	2.529	VV S	0.0372	2.29525e4	0.02760	?
18	2.577	VV S	0.0258	1.57180e4	0.01890	?
19	2.623	VV S	0.0435	1.71395e4	0.02061	?
20	2.665	VV S	0.0277	9280.93359	0.01116	?
21	2.707	VV S	0.0339	8210.56543	0.00987	?
22	2.774	VBAS	0.0475	6518.54980	0.00784	?
23	5.110	BB	0.0235	2.99771	3.604e-6	?
24	6.328	PB	0.0290	3.55381	4.273e-6	?
25	10.557	VV	0.0533	4.47565	5.381e-6	?
26	10.681	VV	0.0524	10.73617	1.291e-5	?
27	10.866	VV	0.0582	12.53348	1.507e-5	?
28	10.962	VV	0.0314	6.64233	7.986e-6	?
29	11.293	VV	0.0304	12.98185	1.561e-5	?

Uncalib. totals : 8.31688e7 99.9977

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==========================================================================
Injection Date  : 8/16/2005 8:56:54 PM          Seq. Line :  10
Sample Name     : 151862 x1 R                    Location : Vial 14
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081605A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 8/12/2005 9:03:24 AM by DCS
TPH
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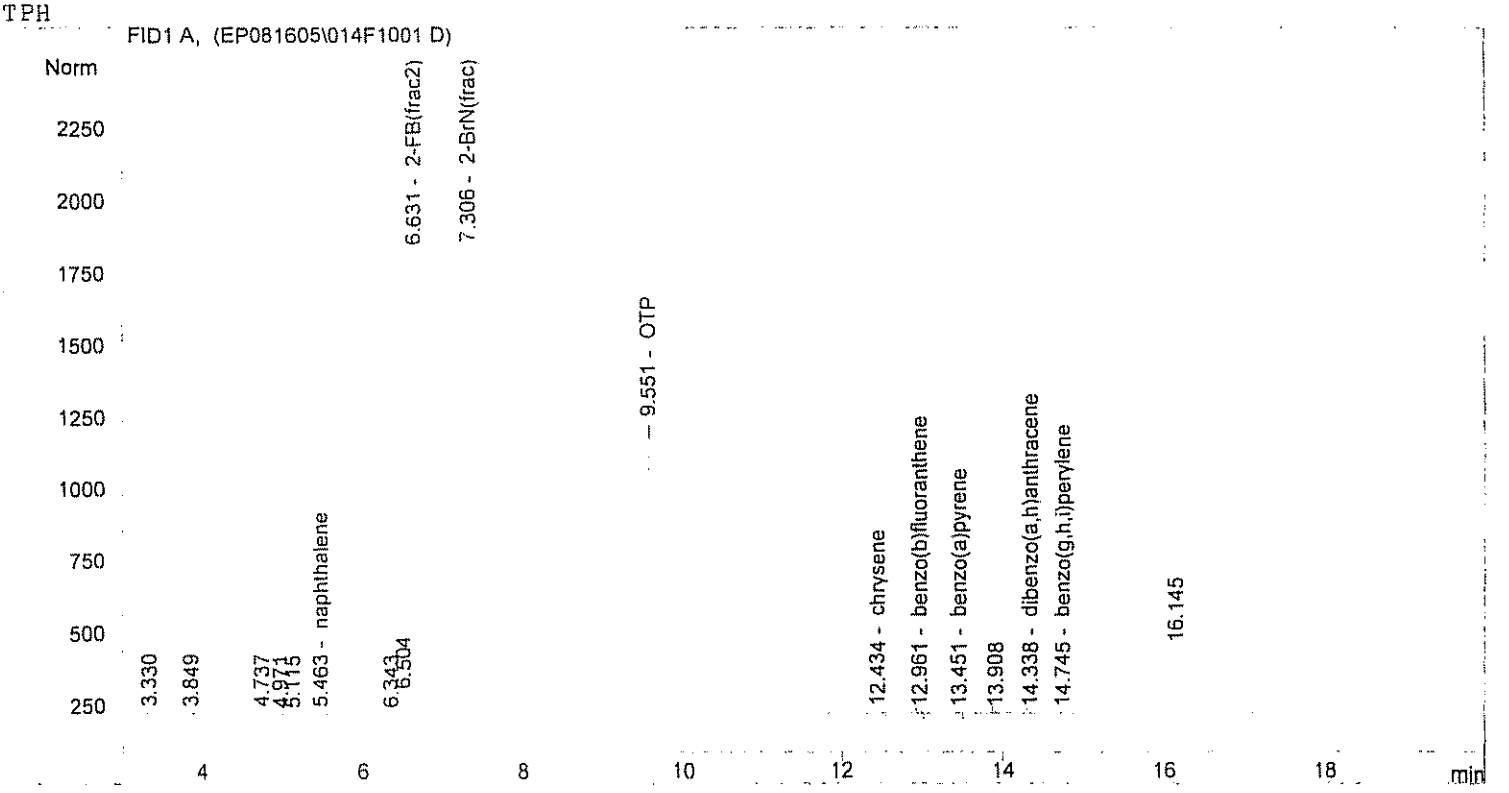


```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:03:08 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.463	BP	0.0418	17.68029	3.281e-5	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.631	VB	0.0303	8970.19141	0.01665	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.306	PB	0.0387	6256.36182	0.01161	2-BrN(frac)
6	7.362		0.0000	0.00000	0.00000	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.090		0.0000	0.00000	0.00000	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.551	BB	0.0242	1664.52808	0.00309	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.675		0.0000	0.00000	0.00000	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.428		0.0000	0.00000	0.00000	COD
14	12.039		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.434	BB	0.0668	21.83500	4.052e-5	chrysene
16	12.961	BB	0.0300	2.85757	5.303e-6	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.451	PB	0.0345	4.24207	7.872e-6	benzo(a)pyrene
19	14.338	PB	0.0281	3.22028	5.976e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.745	BB	0.0270	2.79666	5.190e-6	benzo(g,h,i)perylene

Totals : 1.69437e4 3.144e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.551	BV	0.0163	245.24294	0.00046	?
2	0.581	VV	0.0171	134.04097	0.00025	?
3	1.361	VV S	0.6461	4.88914e7	90.73093	?
4	1.450	VV S	0.0180	8.74861e5	1.62354	?
5	1.510	VV S	0.0313	2.47696e5	0.45967	?
6	1.554	VV S	0.0333	2.33606e5	0.43352	?
7	1.614	VV S	0.0535	2.90789e5	0.53964	?
8	1.670	VV S	0.0428	2.38010e5	0.44169	?
9	1.726	VV S	0.0424	2.10918e5	0.39141	?
10	1.771	VV S	0.0387	2.13858e5	0.39687	?
11	1.850	VV S	0.0416	2.20556e5	0.40930	?
12	1.900	VV S	0.0764	3.11534e5	0.57813	?
13	1.997	VV S	0.0595	2.61926e5	0.48607	?
14	2.061	VV S	0.0280	1.59309e5	0.29564	?
15	2.100	VV S	0.0380	1.51346e5	0.28086	?
16	2.161	VV S	0.0267	1.51244e5	0.28067	?
17	2.194	VV S	0.0272	1.17864e5	0.21873	?
18	2.238	VV S	0.0323	1.52638e5	0.28326	?
19	2.295	VV S	0.0351	1.19547e5	0.22185	?
20	2.345	VV S	0.0432	1.64365e5	0.30502	?
21	2.397	VV S	0.0344	1.45772e5	0.27052	?
22	2.450	VV S	0.0260	1.24288e5	0.23065	?
23	2.493	VV S	0.0261	1.15083e5	0.21357	?
24	2.557	VV S	0.0484	1.50221e5	0.27877	?
25	2.605	VV S	0.0423	1.36639e5	0.25357	?
26	2.653	VV S	0.0406	9.71032e4	0.18020	?
27	2.703	VV S	0.0254	3.63508e4	0.06746	?
28	2.737	VV S	0.0275	2.45489e4	0.04556	?
29	2.780	VV S	0.0272	2.44998e4	0.04547	?
30	2.814	VB S	0.0227	1927.69043	0.00358	?
31	3.330	PB	0.0230	4.46820	8.292e-6	?
32	3.849	PB	0.0358	8.00584	1.486e-5	?
33	4.737	PB	0.0460	17.41723	3.232e-5	?
34	4.971	PB	0.0300	5.37978	9.984e-6	?
35	5.115	PB	0.0214	2.48515	4.612e-6	?
36	6.343	BB	0.0256	2.74571	5.095e-6	?
37	6.504	PV	0.0310	125.84798	0.00023	?
38	13.908	PP	0.0271	2.94818	5.471e-6	?
39	16.145	BB	0.0507	752.86700	0.00140	?

Uncalib. totals : 5.38692e7 99.9686

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

)

EPH Calibration Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/05/05

Calibration Check

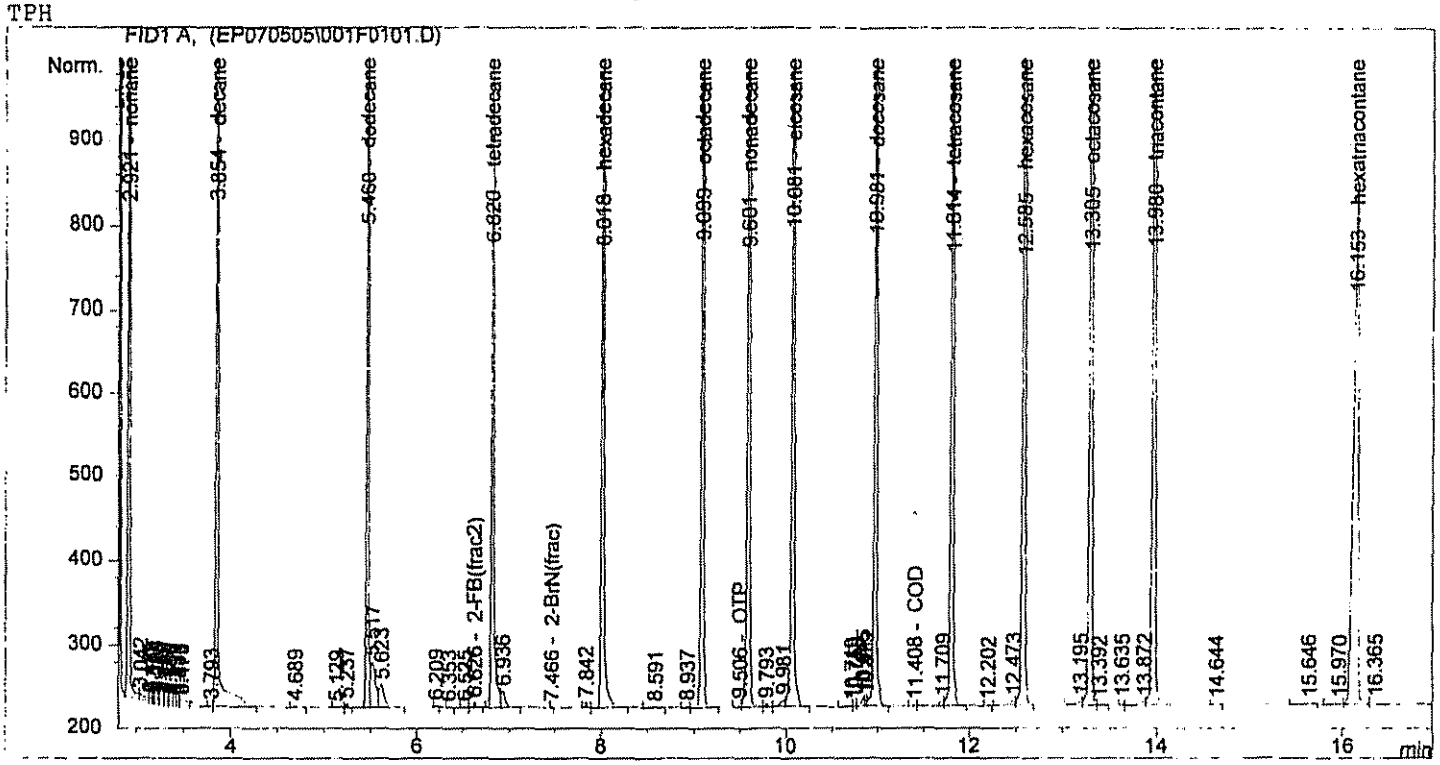
Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	60	7.5
C_{19}-C_{36} Aliphatics	80	5.0
C_{11}-C_{22} Aromatics	340	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Data File C:\HPCHEM\1\DATA\EP070505\001F0101.D Sample Name: K 40 ical

Injection Date	: 7/5/2005 5:16:20 PM	Seq. Line :	1
Sample Name	: K 40 ical	Location :	Vial 1
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 7/6/2005 8:18:01 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:17:09 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.921	VV	0.0197	1464.65564	0.00317	nonane
2	3.854	VB	0.0222	1790.48792	0.00388	decane
3	5.460	BV	0.0199	1430.95947	0.00310	dodecane
4	6.626	VP	0.0206	7.48499	1.621e-5	2-FB(frac2)
5	6.820	PV	0.0236	1657.45227	0.00359	tetradecane
6	7.466	VV	0.0199	2.18315	4.729e-6	2-BrN(frac)
7	8.018	VB	0.0238	1709.42993	0.00370	hexadecane
8	9.099	VB	0.0229	1746.29138	0.00378	octadecane
9	9.506	VV	0.0437	12.64255	2.739e-5	OTP
10	9.601	VV	0.0239	1754.91345	0.00380	nonadecane
11	10.081	VB	0.0244	1773.12976	0.00384	eicosane
12	10.981	VB	0.0259	1833.64990	0.00397	docosane

Data File C:\HPCHEM\1\DATA\EP070505\001F0101.D Sample Name: K 40 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.408	VV	0.0237	2.83018	6.131e-6	COD
14	11.814	VB	0.0248	1945.84497	0.00422	tetracosane
15	12.585	VB	0.0272	2059.55396	0.00446	hexacosane
16	13.305	VV	0.0265	2119.26245	0.00459	octacosane
17	13.980	VB	0.0281	2144.35718	0.00465	triacontane
18	16.153	VV	0.0479	2181.43066	0.00473	hexatriacontane

Totals : 2.56366e4 5.554e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.503	VV	9.75e-3	3.87532	8.395e-6	?
2	0.544	VP	0.0316	5.63474	1.221e-5	?
3	0.586	VV	0.0117	5.04803	1.094e-5	?
4	1.338	VV S	0.5681	4.23728e7	91.79164	?
5	1.414	VV S	0.0360	2.38145e5	0.51589	?
6	1.457	VV S	0.0292	1.72238e5	0.37312	?
7	1.504	VV S	0.0458	1.76019e5	0.38131	?
8	1.546	VV S	0.0287	1.69392e5	0.36695	?
9	1.601	VV S	0.0366	1.57039e5	0.34019	?
10	1.641	VV S	0.0241	1.22659e5	0.26571	?
11	1.695	VV S	0.0763	2.72603e5	0.59054	?
12	1.755	VV S	0.0195	7.76362e4	0.16818	?
13	1.793	VV S	0.0376	1.34446e5	0.29125	?
14	1.831	VV S	0.0335	1.07141e5	0.23210	?
15	1.872	VV S	0.0644	2.10311e5	0.45559	?
16	1.942	VV S	0.0296	1.10279e5	0.23890	?
17	1.985	VV S	0.0306	1.08470e5	0.23498	?
18	2.015	VV S	0.0404	1.33654e5	0.28953	?
19	2.067	VV S	0.0307	1.20978e5	0.26207	?
20	2.119	VV S	0.0361	1.11782e5	0.24215	?
21	2.157	VV S	0.0242	9.02686e4	0.19555	?
22	2.186	VV S	0.0382	1.11930e5	0.24247	?
23	2.253	VV S	0.0686	1.92893e5	0.41786	?
24	2.320	VV S	0.0480	1.25387e5	0.27162	?
25	2.368	VV S	0.0355	1.10194e5	0.23871	?
26	2.409	VV S	0.0360	1.19187e5	0.25819	?
27	2.517	VV S	0.0835	2.24705e5	0.48678	?
28	2.558	VV S	0.0325	8.51239e4	0.18440	?
29	2.604	VV S	0.0342	9.25618e4	0.20052	?
30	2.629	VV S	0.0267	6.85026e4	0.14840	?
31	2.661	VV S	0.0394	8.39189e4	0.18179	?
32	2.743	VV S	0.0265	2.02835e4	0.04394	?
33	2.783	VBAS	0.0257	1.49929e4	0.03248	?
34	3.042	VV	0.0527	24.43899	5.294e-5	?
35	3.145	VV	0.0199	4.62410	1.002e-5	?
36	3.171	VV	0.0203	4.47648	9.697e-6	?
37	3.206	VV	0.0349	9.59216	2.078e-5	?
38	3.246	VV	0.0331	6.90560	1.496e-5	?
39	3.298	VV	0.0312	6.23980	1.352e-5	?
40	3.356	VV	0.0351	5.85852	1.269e-5	?
41	3.399	VV	0.0249	4.84861	1.050e-5	?
42	3.438	VV	0.0249	5.46262	1.183e-5	?
43	3.475	VV	0.0709	18.64049	4.038e-5	?
44	3.793	VV	0.0224	2.90003	6.282e-6	?
45	4.689	BV	0.0429	7.91076	1.714e-5	?
46	5.129	PV	0.0449	4.37063	9.468e-6	?
47	5.237	VP	0.0226	6.70182	1.452e-5	?
48	5.517	VV	0.0540	222.93123	0.00048	?
49	5.623	VB	0.0528	102.38389	0.00022	?
50	6.209	BB	0.0195	2.34533	5.081e-6	?
51	6.353	BB	0.0243	1.79134	3.881e-6	?

Data File C:\HPCHEM\1\DATA\EP070505\001F0101.D Sample Name: K 40 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	6.525	BP	0.0244	2.18359	4.730e-6	?
53	6.936	VB	0.0440	60.72083	0.00013	?
54	7.842	BP	0.0204	8.61642	1.867e-5	?
55	8.591	PP	0.0361	2.88831	6.257e-6	?
56	8.937	VV	0.0227	3.62133	7.845e-6	?
57	9.793	VB	0.0266	6.90356	1.496e-5	?
58	9.981	BV	0.0466	25.66632	5.560e-5	?
59	10.719	VV	0.0389	5.30762	1.150e-5	?
60	10.759	VV	0.0273	4.78670	1.037e-5	?
61	10.845	VV	0.0405	29.55837	6.403e-5	?
62	10.879	VV	0.0199	11.17134	2.420e-5	?
63	11.709	VV	0.0740	34.67511	7.512e-5	?
64	12.202	BB	0.0251	2.59528	5.622e-6	?
65	12.473	BV	0.0615	24.98494	5.412e-5	?
66	13.195	BV	0.0527	19.44730	4.213e-5	?
67	13.392	VP	0.0318	4.46860	9.680e-6	?
68	13.635	BV	0.0236	5.09245	1.103e-5	?
69	13.872	VV	0.0509	16.51588	3.578e-5	?
70	14.644	VV	0.0434	5.10860	1.107e-5	?
71	15.646	BB	0.0652	6.63919	1.438e-5	?
72	15.970	PV	0.0810	10.48173	2.271e-5	?
73	16.365	VB	0.0774	18.27855	3.960e-5	?

Uncalib. totals : 4.61364e7 99.9445

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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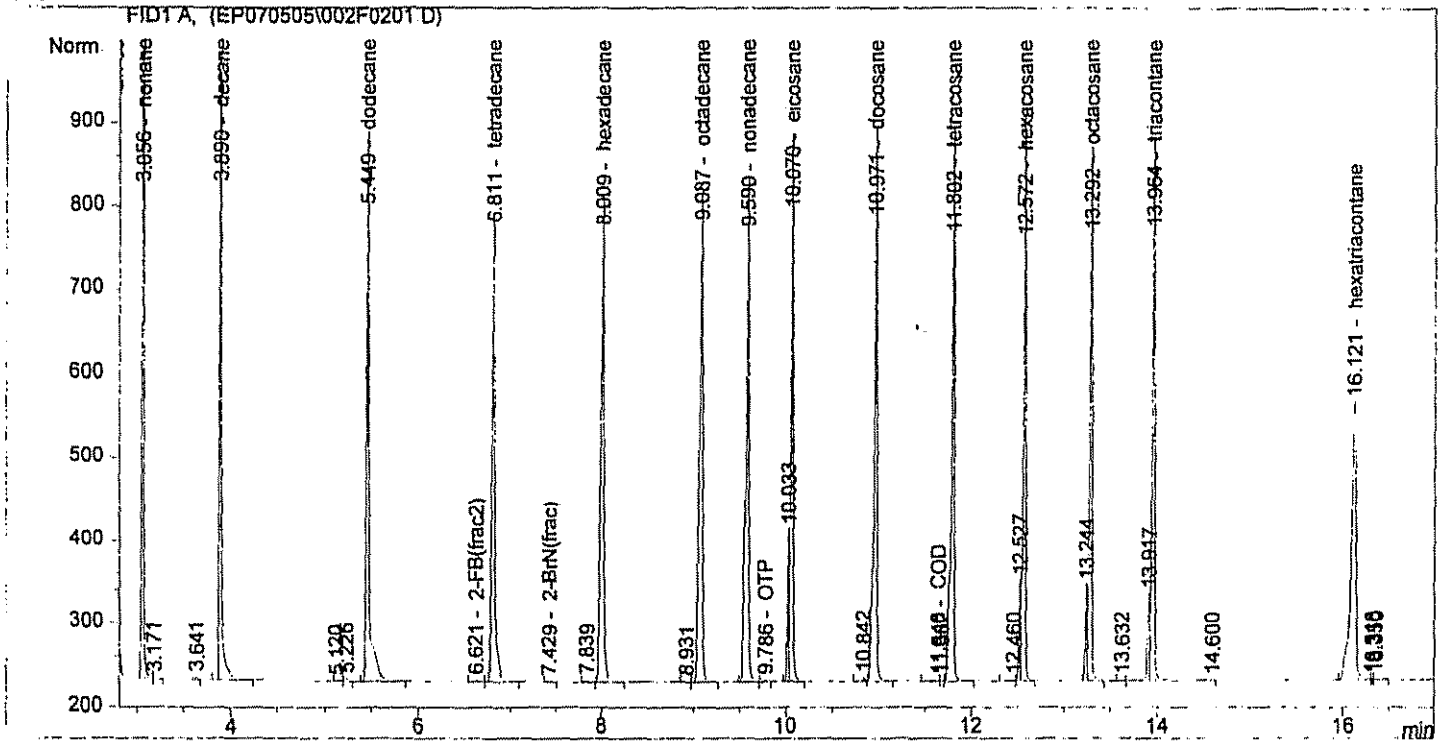
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\002F0201.D Sample Name: K 20 ical

Injection Date	: 7/5/2005 5:43:12 PM	Seq. Line :	2
Sample Name	: K 20 ical	Location :	Vial 2
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 7/6/2005 8:18:24 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:17:09 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.056	VV	0.0170	1266.11841	0.00168	nonane
2	3.890	PB	0.0194	1279.19031	0.00170	decane
3	5.449	VP	0.0291	1286.24854	0.00171	dodecane
4	6.621	VP	0.0412	6.88729	9.156e-6	2-FB(frac2)
5	6.811	VB	0.0320	1285.44092	0.00171	tetradecane
6	7.429	PB	0.0302	2.59298	3.447e-6	2-BrN(frac)
7	8.009	BB	0.0314	1288.99622	0.00171	hexadecane
8	9.087	VB	0.0319	1301.94788	0.00173	octadecane
9	9.590	VV	0.0316	1299.69238	0.00173	nonadecane
10	9.786	VP	0.0426	6.33639	8.423e-6	OTP
11	10.070	VB	0.0222	1026.11792	0.00136	eicosane
12	10.971	VP	0.0289	1297.54663	0.00172	docosane

Data File C:\HPCHEM\1\DATA\EP070505\002F0201.D Sample Name: K 20 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.646	VV	0.0566	4.78266	6.358e-6	COD
14	11.802	VB	0.0280	1300.71521	0.00173	tetracosane
15	12.572	VB	0.0246	1141.47192	0.00152	hexacosane
16	13.292	VB	0.0264	1119.32971	0.00149	octacosane
17	13.964	VB	0.0262	1129.04834	0.00150	triacontane
18	16.121	BV	0.0543	1246.25208	0.00166	hexatriacontane

Totals : 1.72887e4 2.298e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.519	BV	0.0246	57.74522	7.676e-5	?
2	0.586	VV	0.0237	60.70682	8.070e-5	?
3	1.757	VV S	0.9269	7.50090e7	99.71239	?
4	1.871	PV T	0.0724	3.66966e4	0.04878	?
5	1.900	VV S	0.0222	7539.72803	0.01002	?
6	1.938	VV S	0.0413	1.36300e4	0.01812	?
7	1.987	VV S	0.0322	9887.83594	0.01314	?
8	2.029	VV S	0.0314	8891.41602	0.01182	?
9	2.056	VV S	0.0341	9171.54004	0.01219	?
10	2.101	VV S	0.0435	1.19341e4	0.01586	?
11	2.167	VV S	0.0639	1.51115e4	0.02009	?
12	2.231	VV S	0.0450	1.08432e4	0.01441	?
13	2.276	VV S	0.0244	6460.79590	0.00859	?
14	2.313	VV S	0.0343	7420.84668	0.00986	?
15	2.342	VV S	0.0223	5157.41846	0.00686	?
16	2.368	VV S	0.0193	4072.39526	0.00541	?
17	2.397	VV S	0.0270	5564.77979	0.00740	?
18	2.442	VV S	0.0397	7676.17383	0.01020	?
19	2.477	VV S	0.0298	6480.95703	0.00862	?
20	2.524	VV S	0.0451	7486.56201	0.00995	?
21	2.571	VV S	0.0323	5891.19531	0.00783	?
22	2.606	VV S	0.0380	6896.95996	0.00917	?
23	2.653	VV S	0.0300	4868.49316	0.00647	?
24	2.704	VV S	0.0347	3265.92163	0.00434	?
25	2.759	VBAS	0.0521	3142.03711	0.00418	?
26	3.171	VB	0.0459	6.17071	8.203e-6	?
27	3.641	VB	0.0169	3.83051	5.092e-6	?
28	5.120	PB	0.0367	3.31076	4.401e-6	?
29	5.226	BV	0.0268	6.33691	8.424e-6	?
30	7.839	VP	0.0332	6.13517	8.156e-6	?
31	8.931	BP	0.0343	2.61409	3.475e-6	?
32	10.033	VV	0.0224	274.32721	0.00036	?
33	10.842	VV	0.0436	12.46182	1.657e-5	?
34	11.682	VV	0.0328	3.37227	4.483e-6	?
35	12.460	BV	0.0513	4.44878	5.914e-6	?
36	12.527	VV	0.0215	160.92191	0.00021	?
37	13.244	VV	0.0245	182.79713	0.00024	?
38	13.632	BP	0.0284	2.38395	3.169e-6	?
39	13.917	VV	0.0256	173.30225	0.00023	?
40	14.600	PV	0.0405	3.38775	4.503e-6	?
41	16.318	VV	0.0219	2.13633	2.840e-6	?
42	16.350	VB	0.0609	7.15532	9.512e-6	?

Uncalib. totals : 7.52081e7 99.9770

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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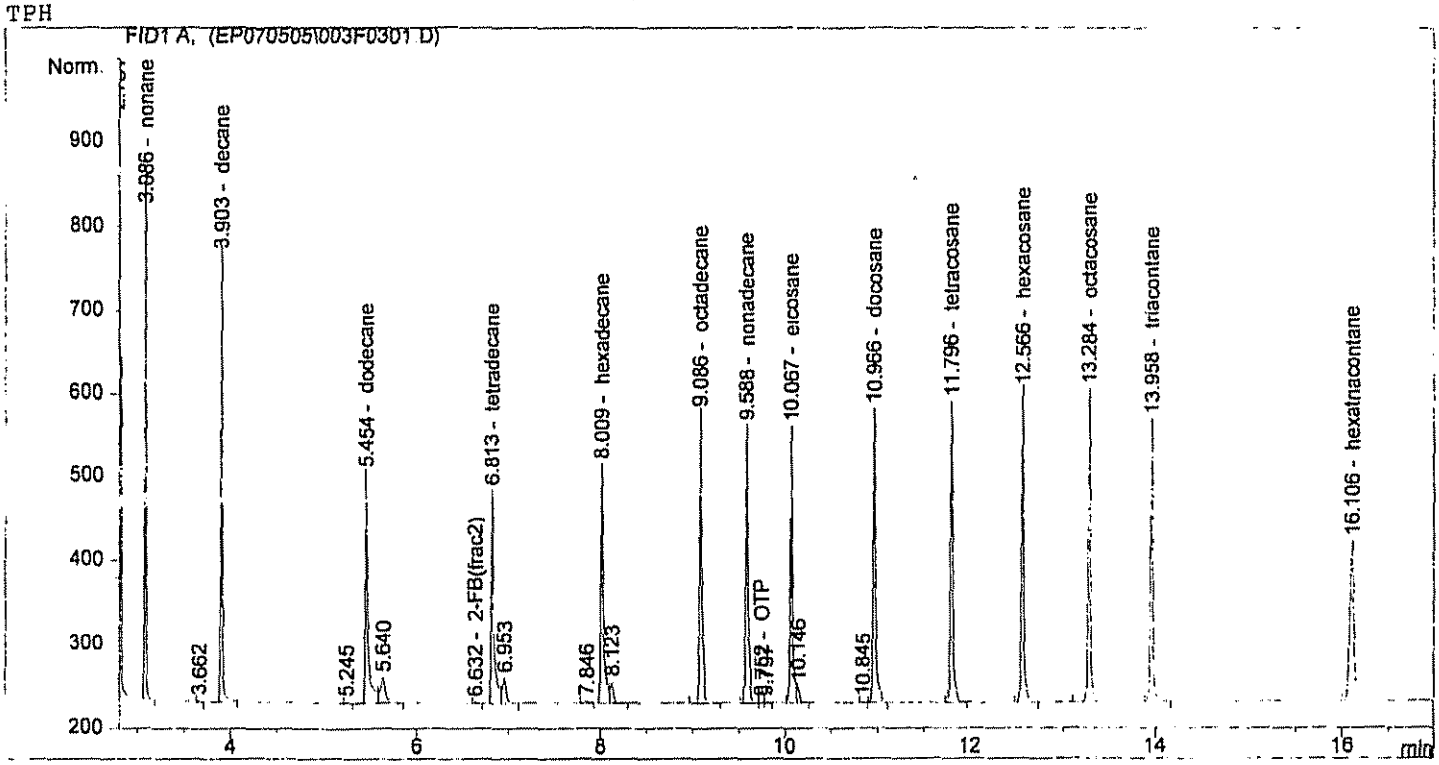
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\003F0301.D Sample Name: K 10 ical

Injection Date	: 7/5/2005 6:10:14 PM	Seq. Line :	3
Sample Name	: K 10 ical	Location :	Vial 3
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 7/6/2005 8:19:03 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:17:09 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.086	BV	0.0163	646.96594	0.00080	nonane
2	3.903	PB	0.0191	648.55542	0.00080	decane
3	5.454	BV	0.0259	515.10767	0.00063	dodecane
4	6.632	VP	0.0224	2.64904	3.257e-6	2-FB(frac2)
5	6.813	PV	0.0296	535.56970	0.00066	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.009	BV	0.0299	559.39600	0.00069	hexadecane
8	9.086	VB	0.0260	629.22015	0.00077	octadecane
9	9.588	VB	0.0279	622.48523	0.00077	nonadecane
10	9.752	BV	0.0413	3.49163	4.293e-6	OTP
11	10.067	BV	0.0267	587.18970	0.00072	eicosane
12	10.966	BB	0.0257	624.03387	0.00077	docosane

Data File C:\HPCHEM\1\DATA\EP070505\003F0301.D Sample Name: K 10 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	BB	0.0263	627.09064	0.00077	tetracosane
15	12.566	VB	0.0258	634.36932	0.00078	hexacosane
16	13.284	PB	0.0256	630.87390	0.00078	octacosane
17	13.958	VB	0.0298	632.02637	0.00078	triacontane
18	16.106	BV	0.0464	593.95795	0.00073	hexatriacontane

Totals : 8492.98253 1.044e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0244	7.71156	9.481e-6	?
2	0.562	VP	0.0113	1.42115	1.747e-6	?
3	0.591	VV	0.0154	23.15101	2.846e-5	?
4	1.820	VV S	0.9937	8.05263e7	99.00074	?
5	1.887	VV S	0.0265	4.48002e4	0.05508	?
6	1.928	VV S	0.0408	6.93738e4	0.08529	?
7	1.973	VV S	0.0381	5.52395e4	0.06791	?
8	2.024	VV S	0.0335	5.17152e4	0.06358	?
9	2.067	VV S	0.0365	5.62647e4	0.06917	?
10	2.118	VV S	0.0376	4.86328e4	0.05979	?
11	2.151	VV S	0.0215	2.98704e4	0.03672	?
12	2.177	VV S	0.0264	3.52801e4	0.04337	?
13	2.228	VV S	0.0458	5.56615e4	0.06843	?
14	2.287	VV S	0.0379	5.22191e4	0.06420	?
15	2.333	VV S	0.0391	4.50187e4	0.05535	?
16	2.381	VV S	0.0585	6.88890e4	0.08469	?
17	2.468	VV S	0.0502	4.48071e4	0.05509	?
18	2.536	VV S	0.0353	4.05112e4	0.04981	?
19	2.597	VV S	0.0481	4.29150e4	0.05276	?
20	2.637	VV S	0.0305	2.27497e4	0.02797	?
21	2.672	VV S	0.0404	1.89249e4	0.02327	?
22	2.735	VV S	0.0465	1.48342e4	0.01824	?
23	2.781	VBAS	0.0237	6243.33594	0.00768	?
24	3.662	VP	0.0195	2.25390	2.771e-6	?
25	5.245	BP	0.0223	2.77696	3.414e-6	?
26	5.640	VB	0.0517	112.54359	0.00014	?
27	6.953	VB	0.0402	87.22015	0.00011	?
28	7.846	VP	0.0237	3.71921	4.572e-6	?
29	8.123	VB	0.0356	65.04246	7.996e-5	?
30	9.797	VP	0.0246	2.36150	2.903e-6	?
31	10.146	VB	0.0269	35.94770	4.419e-5	?
32	10.845	BP	0.0222	2.60568	3.203e-6	?

Uncalib. totals : 8.13306e7 99.9896

Results obtained with enhanced integrator!
3 Warnings or Errors :

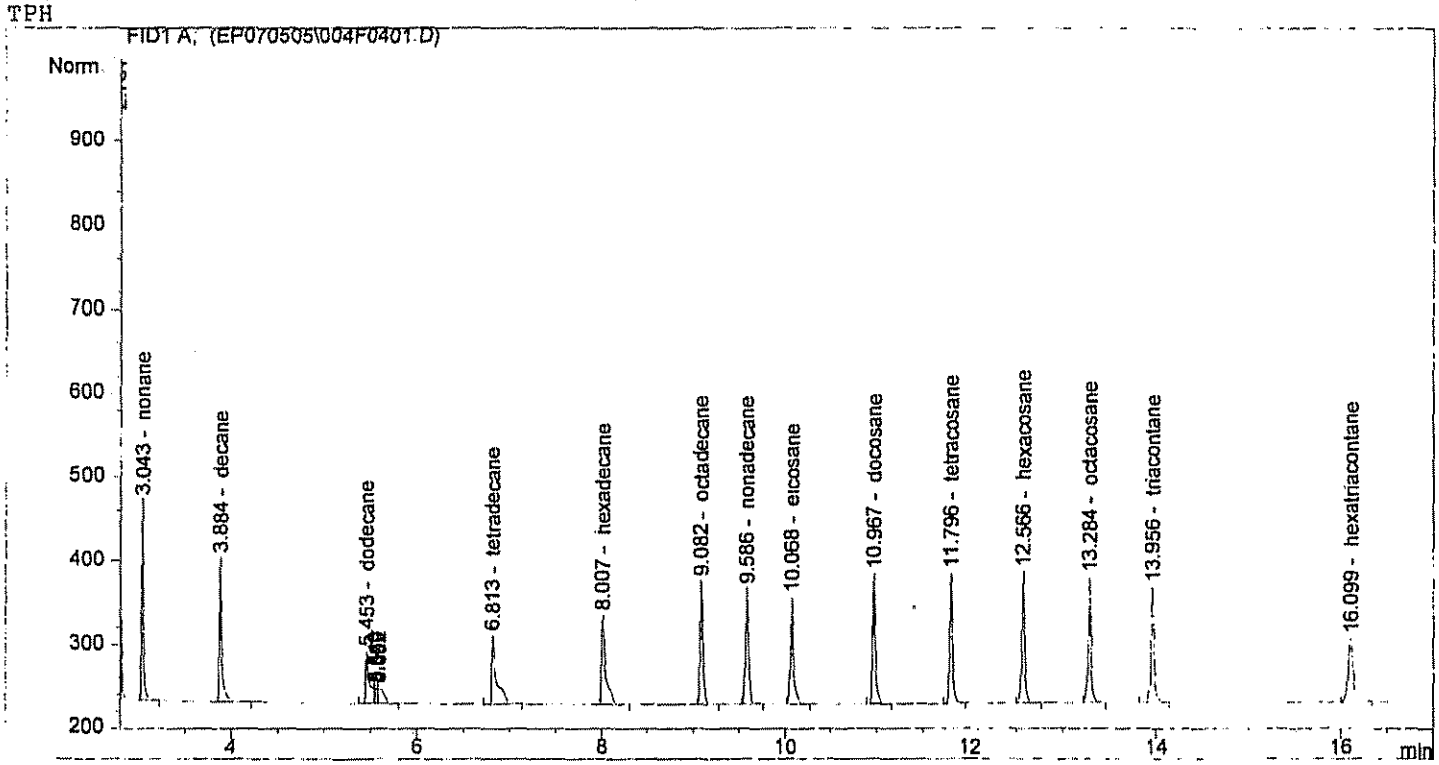
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\004F0401.D Sample Name: K 5 ical

Injection Date	: 7/5/2005 6:37:08 PM	Seq. Line :	4
Sample Name	: K 5 ical	Location :	Vial 4
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 7/6/2005 8:19:25 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:17:09 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.043	VB	0.0194	314.75198	0.00042	nonane
2	3.884	BB	0.0257	319.18195	0.00043	decane
3	5.453	VV	0.0395	178.06067	0.00024	dodecane
4	6.600		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.813	BB	0.0531	314.94501	0.00042	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.007	BB	0.0422	318.62674	0.00043	hexadecane
8	9.082	BB	0.0325	320.91269	0.00043	octadecane
9	9.500		0.0000	0.00000	0.00000	OTP
10	9.586	PB	0.0330	317.79922	0.00043	nonadecane
11	10.068	BB	0.0354	320.89191	0.00043	eicosane
12	10.967	VB	0.0302	321.13647	0.00043	docosane

Data File C:\HPCHEM\1\DATA\EP070505\004F0401.D Sample Name: K 5 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	VB	0.0301	321.12863	0.00043	tetracosane
15	12.566	VB	0.0312	325.14694	0.00044	hexacosane
16	13.284	PB	0.0321	321.30228	0.00043	octacosane
17	13.956	BB	0.0341	320.14969	0.00043	triacontane
18	16.099	BB	0.0561	291.00854	0.00039	hexatriacontane

Totals : 4305.04272 5.802e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.517	PV	0.0191	55.41060	7.468e-5	?
2	0.565	VV	0.0185	28.83533	3.886e-5	?
3	1.713	VV S	0.9089	7.32658e7	98.74944	?
4	1.764	VV S	0.0163	7.29550e5	0.98330	?
5	1.830	VV S	0.0435	1.87256e4	0.02524	?
6	1.878	VV S	0.0284	1.22771e4	0.01655	?
7	1.924	VV S	0.0404	1.41080e4	0.01902	?
8	1.974	VV S	0.0322	1.20777e4	0.01628	?
9	2.013	VV S	0.0466	1.33146e4	0.01795	?
10	2.087	VV S	0.0613	1.79908e4	0.02425	?
11	2.136	VV S	0.0245	7542.58447	0.01017	?
12	2.183	VV S	0.0671	1.54346e4	0.02080	?
13	2.267	VV S	0.0517	1.32190e4	0.01782	?
14	2.316	VV S	0.0334	9018.83691	0.01216	?
15	2.360	VV S	0.0333	8250.15332	0.01112	?
16	2.408	VV S	0.0349	8098.63721	0.01092	?
17	2.453	VV S	0.0346	7506.19678	0.01012	?
18	2.493	VV S	0.0245	5263.53906	0.00709	?
19	2.536	VV S	0.0618	1.09045e4	0.01470	?
20	2.600	VV S	0.0313	7502.49414	0.01011	?
21	2.645	VV S	0.0314	4715.55957	0.00636	?
22	2.684	VV S	0.0381	3582.78540	0.00483	?
23	2.733	VV S	0.0518	3241.38672	0.00437	?
24	2.781	VBAS	0.0167	992.51752	0.00134	?
25	5.543	VV	0.0178	22.70176	3.060e-5	?
26	5.569	VV	0.0207	27.28106	3.677e-5	?
27	5.592	VV	0.0602	83.46490	0.00011	?

Uncalib. totals : 7.41894e7 99.9942

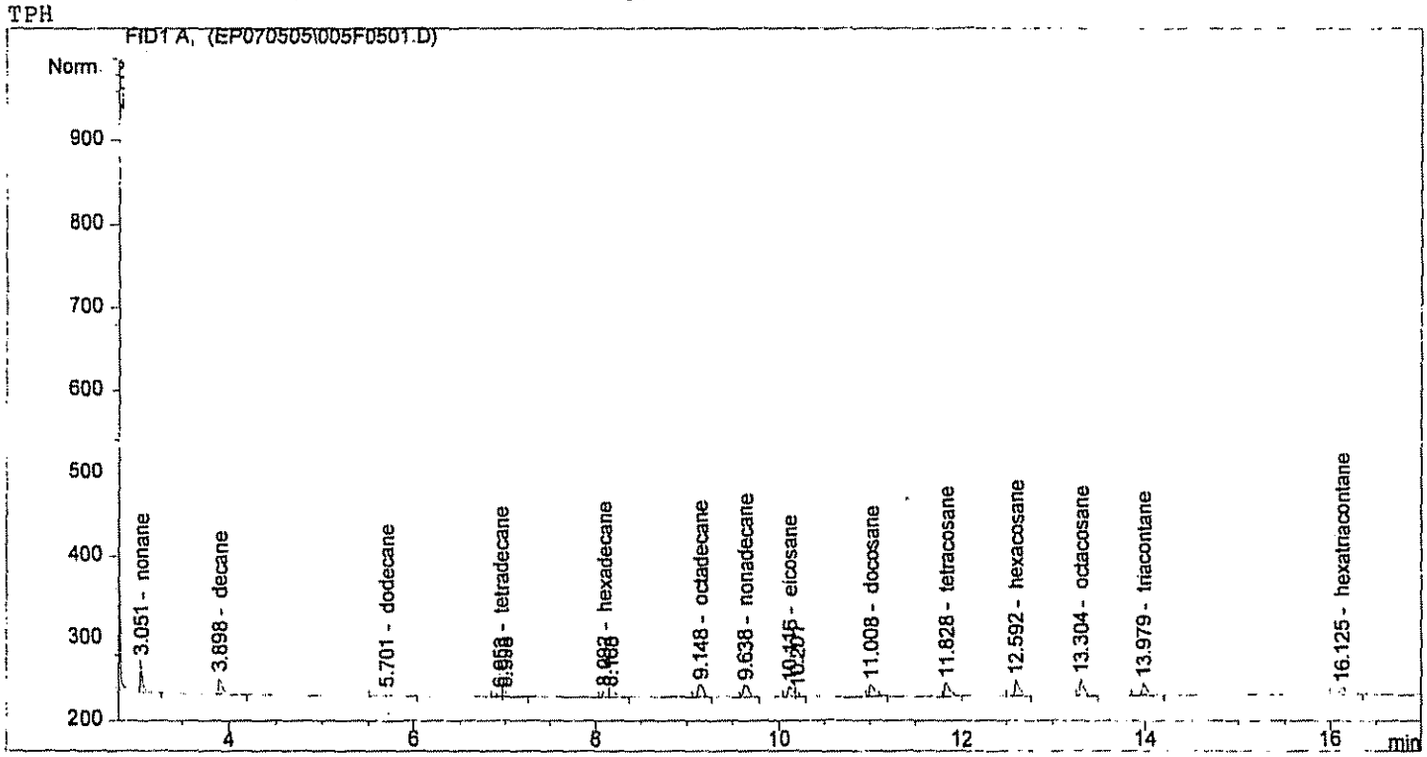
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date	: 7/5/2005 7:03:13 PM	Seq. Line :	5
Sample Name	: K 1 ical	Location :	Vial 5
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 7/6/2005 8:19:54 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:17:09 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.051	BP	0.0241	63.57945	8.542e-5	nonane
2	3.898	BP	0.0457	69.52576	9.341e-5	decane
3	5.701	PV	0.1867	58.11040	7.807e-5	dodecane
4	6.600		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.953	PV	0.0485	18.31736	2.461e-5	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.092	PV	0.0599	30.26579	4.066e-5	hexadecane
8	9.148	PV	0.0596	62.13025	8.347e-5	octadecane
9	9.500		0.0000	0.00000	0.00000	OTP
10	9.638	BV	0.0588	62.69368	8.423e-5	nonadecane
11	10.116	VV	0.0553	47.14569	6.334e-5	eicosane
12	11.008	BB	0.0600	64.16410	8.621e-5	docosane

Data File C:\HPCHEM\1\DATA\EP070505\005F0501.D Sample Name: K 1 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.828	PB	0.0525	64.03179	8.603e-5	tetracosane
15	12.592	VB	0.0482	65.47491	8.797e-5	hexacosane
16	13.304	BB	0.0443	64.38484	8.650e-5	octacosane
17	13.979	VB	0.0519	63.16903	8.487e-5	triacontane
18	16.125	BB	0.0709	49.00692	6.584e-5	hexatriacontane

Totals : 781.99997 1.051e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.521	PV	0.0155	64.20905	8.627e-5	?
2	0.585	VV	0.0276	69.71010	9.366e-5	?
3	0.712	VV S	0.0486	1.41617e6	1.90265	?
4	1.750	VV S	0.8897	7.21088e7	96.87967	?
5	1.777	VV S	0.0153	7.12026e5	0.95662	?
6	1.843	PV T	0.0740	3.29682e4	0.04429	?
7	1.885	VV S	0.0408	1.41671e4	0.01903	?
8	1.934	VV S	0.1521	3.89642e4	0.05235	?
9	2.115	VV S	0.0395	1.23934e4	0.01665	?
10	2.170	VV S	0.0314	8898.58203	0.01196	?
11	2.199	VV S	0.0246	5647.13525	0.00759	?
12	2.238	VV S	0.0367	9367.01953	0.01258	?
13	2.289	VV S	0.0425	9846.37305	0.01323	?
14	2.350	VV S	0.0463	9718.13770	0.01306	?
15	2.407	VV S	0.0417	1.00959e4	0.01356	?
16	2.447	VV S	0.0309	5712.63965	0.00768	?
17	2.486	VV S	0.0376	6904.68115	0.00928	?
18	2.527	VV S	0.0702	1.12526e4	0.01512	?
19	2.613	VV S	0.0618	1.00827e4	0.01355	?
20	2.685	VV S	0.0287	2776.07471	0.00373	?
21	2.723	VV S	0.0341	2505.02124	0.00337	?
22	2.775	VBAS	0.0323	2004.13550	0.00269	?
23	6.998	VB	0.0995	41.64529	5.595e-5	?
24	8.168	VB	0.0670	31.63436	4.250e-5	?
25	10.201	VB	0.0450	14.71698	1.977e-5	?

Uncalib. totals : 7.44306e7 99.9989

Results obtained with enhanced integrator!
2 Warnings or Errors :

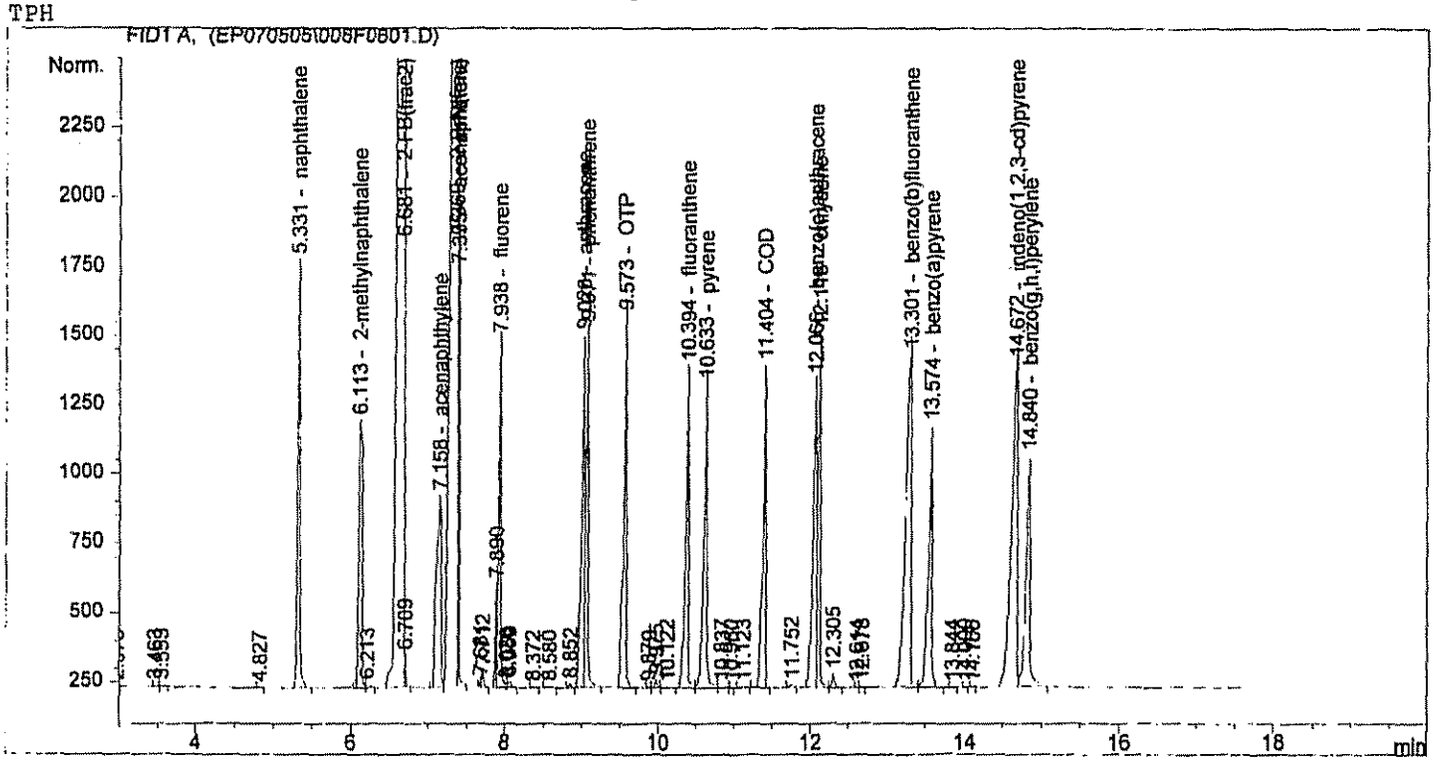
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\006F0601.D Sample Name: R 40 ical

Injection Date	: 7/5/2005 7:30:00 PM	Seq. Line :	6
Sample Name	: R 40 ical	Location :	Vial 6
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:22:50 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/6/2005 8:23:05 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.331	PB	0.0293	3077.10938	0.00430	naphthalene
2	6.113	PV	0.0442	2919.46924	0.00408	2-methylnaphthalene
3	6.681	BV	0.0555	3.39225e4	0.04735	2-FB(frac2)
4	7.158	PV	0.0555	2908.37695	0.00406	acenaphthylene
5	7.369	VV	0.0643	2.40343e4	0.03355	2-BrN(frac)
6	7.395	VB	0.0154	2159.06787	0.00301	acenaphthene
7	7.938	VV	0.0276	2337.66382	0.00326	fluorene
8	9.020	BV	0.0336	3231.57983	0.00451	anthracene
9	9.071	VB	0.0259	2557.39355	0.00357	phenanthrene
10	9.573	BB	0.0330	3222.72534	0.00450	OTP
11	10.394	BV	0.0357	2949.98340	0.00412	fluoranthene
12	10.633	VB	0.0382	3117.37500	0.00435	pyrene

Data File C:\HPCHEM\1\DATA\EP070505\006F0601.D Sample Name: R 40 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.404	BB	0.0364	2832.86084	0.00395	COD
14	12.066	BV	0.0407	3498.13501	0.00488	benzo(a)anthracene
15	12.118	VV	0.0253	2452.23462	0.00342	chrysene
16	13.301	BV	0.0695	6132.74707	0.00856	benzo(b)fluoranthene
17	13.349		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.574	VB	0.0446	2957.06860	0.00413	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.672	BV	0.0646	5866.15234	0.00819	indeno(1,2,3-cd)pyrene
21	14.840	VB	0.0479	3050.68335	0.00426	benzo(g,h,i)perylene

Totals : 1.13227e5 0.1581

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.573	BP S	0.0122	7586.06055	0.01059	?
2	0.653	VV S	0.0451	6.58377e5	0.91907	?
3	1.724	VV S	0.8725	7.07102e7	98.70834	?
4	1.801	VV S	0.0388	1.48257e4	0.02070	?
5	1.864	VV S	0.0489	1.48582e4	0.02074	?
6	1.915	VV S	0.0265	8182.16309	0.01142	?
7	1.950	VV S	0.0247	6569.26807	0.00917	?
8	1.977	VV S	0.0245	5267.52979	0.00735	?
9	2.006	VV S	0.0348	8034.66211	0.01122	?
10	2.059	VV S	0.0422	9352.93457	0.01306	?
11	2.107	VV S	0.0426	9707.95801	0.01355	?
12	2.159	VV S	0.0387	8381.02832	0.01170	?
13	2.207	VV S	0.0522	1.08873e4	0.01520	?
14	2.299	VV S	0.0752	1.13269e4	0.01581	?
15	2.378	VV S	0.0389	6377.16797	0.00890	?
16	2.418	VV S	0.0326	5568.22656	0.00777	?
17	2.465	VV S	0.0356	5317.47607	0.00742	?
18	2.522	VV S	0.0424	6129.83447	0.00856	?
19	2.571	VV S	0.0428	5401.29785	0.00754	?
20	2.623	VV S	0.0339	4015.69678	0.00561	?
21	2.653	VV S	0.0291	2476.95386	0.00346	?
22	2.696	VV S	0.0250	1451.90259	0.00203	?
23	2.749	VB S	0.0222	693.39868	0.00097	?
24	2.975	PP	0.0232	2.07011	2.890e-6	?
25	3.463	BB	0.0306	14.04676	1.961e-5	?
26	3.553	BB	0.0470	14.24751	1.989e-5	?
27	4.827	PB	0.0340	3.28712	4.589e-6	?
28	6.213	VB	0.0516	42.02866	5.867e-5	?
29	6.709	VB	0.0158	117.18262	0.00016	?
30	7.681	PV	0.0203	26.89666	3.755e-5	?
31	7.712	VB	0.0227	87.80135	0.00012	?
32	7.890	BV	0.0230	547.56219	0.00076	?
33	8.026	VV	0.0199	16.41841	2.292e-5	?
34	8.059	VB	0.0434	57.65916	8.049e-5	?
35	8.372	BB	0.0308	7.16673	1.000e-5	?
36	8.580	PP	0.0394	9.82675	1.372e-5	?
37	8.852	BP	0.0316	31.30010	4.369e-5	?
38	9.879	BV	0.0241	6.10458	8.522e-6	?
39	9.975	VV	0.0312	56.82285	7.932e-5	?
40	10.122	VP	0.0467	15.90412	2.220e-5	?
41	10.837	BB	0.0691	19.98311	2.790e-5	?
42	10.960	BB	0.0229	4.29571	5.997e-6	?
43	11.123	BB	0.0481	14.04146	1.960e-5	?
44	11.752	BP	0.0313	20.70277	2.890e-5	?
45	12.305	VB	0.0365	131.56999	0.00018	?
46	12.614	PV	0.0273	3.90746	5.455e-6	?
47	12.678	VB	0.0265	8.30177	1.159e-5	?
48	13.844	PP	0.0277	3.11171	4.344e-6	?

Data File C:\HPCHEM\1\DATA\EP070505\006F0601.D Sample Name: R 40 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	14.000	PP	0.0257	5.20895	7.271e-6	?
50	14.106	BP	0.0260	3.34295	4.667e-6	?

Uncalib. totals : 7.15223e7 99.8419

Results obtained with enhanced integrator!
3 Warnings or Errors :

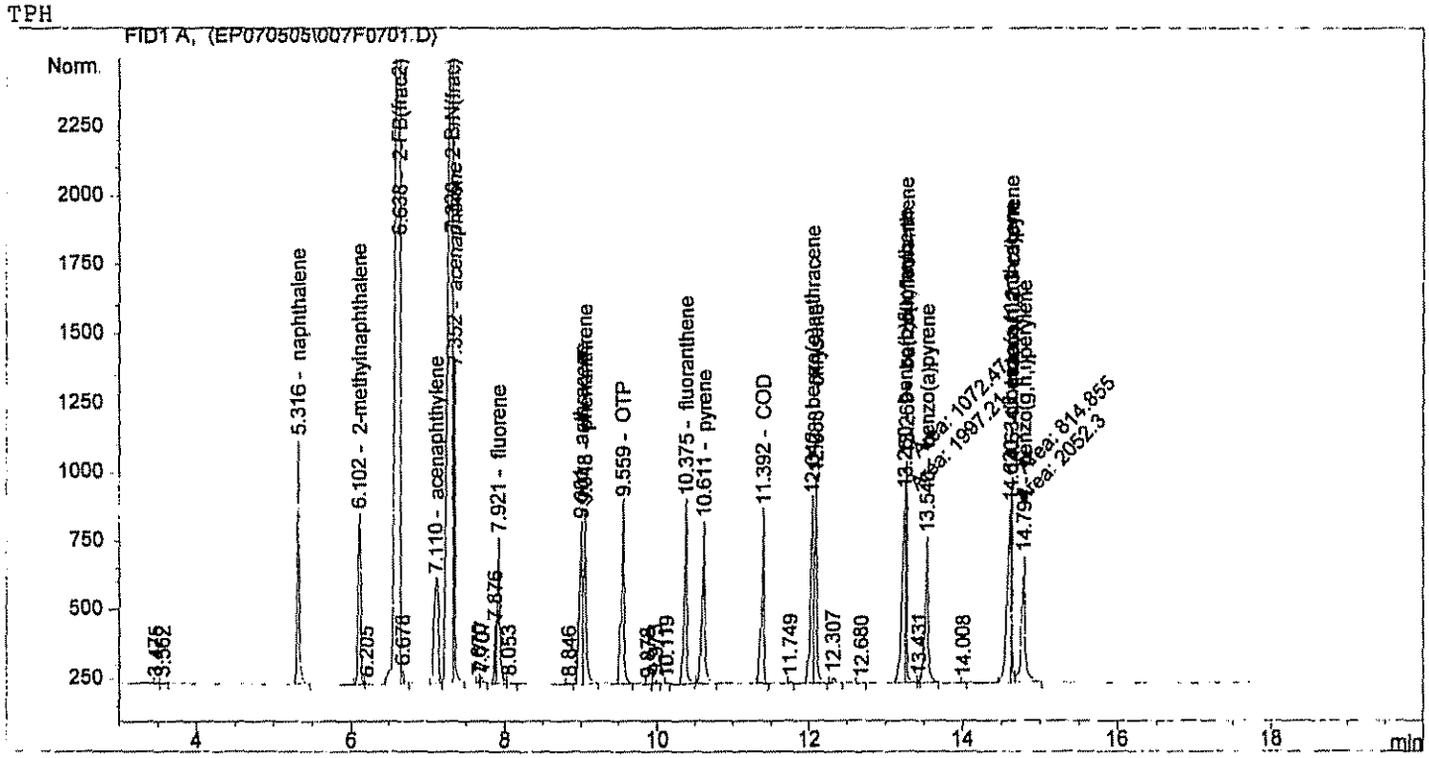
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\007F0701.D Sample Name: R 20 ical

Injection Date	: 7/5/2005 7:57:34 PM	Seq. Line :	7
Sample Name	: R 20 ical	Location :	Vial 7
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:24:52 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:24:52 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.316	BB	0.0266	1560.88293	0.00203	naphthalene
2	6.102	BV	0.0401	1488.68005	0.00194	2-methylnaphthalene
3	6.638	BV	0.0461	1.69993e4	0.02215	2-FB(frac2)
4	7.110	PV	0.0495	1483.72766	0.00193	acenaphthylene
5	7.320	VV	0.0471	1.18874e4	0.01549	2-BrN(frac)
6	7.352	VB	0.0179	1344.53394	0.00175	acenaphthene
7	7.921	VV	0.0328	1174.09924	0.00153	fluorene
8	9.001	BV	0.0356	1523.33997	0.00199	anthracene
9	9.048	VB	0.0308	1401.40002	0.00183	phenanthrene
10	9.559	BB	0.0348	1633.10645	0.00213	OTP
11	10.375	BB	0.0329	1480.49524	0.00193	fluoranthene
12	10.611	BB	0.0348	1549.50317	0.00202	pyrene

)ata File C:\HPCHEM\1\DATA\EP070505\007F0701.D Sample Name: R 20 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	BB	0.0313	1423.13940	0.00185	COD
14	12.042	BV	0.0356	1639.31689	0.00214	benzo(a)anthracene
15	12.088	VB	0.0261	1352.98071	0.00176	chrysene
16	13.250	MF	0.0484	1997.20630	0.00260	benzo(b)fluoranthene
17	13.269	FM	0.0221	1072.47473	0.00140	benzo(k)fluoranthene
18	13.540	VB	0.0372	1456.48926	0.00190	benzo(a)pyrene
19	14.620	MF	0.0536	2052.29810	0.00267	dibenzo(a,h)anthracene
20	14.634	FM	0.0181	814.85461	0.00106	indeno(1,2,3-cd)pyrene
21	14.794	VB	0.0437	1551.06067	0.00202	benzo(g,h,i)perylene

Totals : 5.68863e4 7.413e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.602	BV S	0.0129	8.49849e4	0.11075	?
2	0.705	VV S	0.0440	1.37523e6	1.79211	?
3	1.742	VV S	0.6541	7.50294e7	97.77352	?
4	1.908	VV S	0.0673	3.74246e4	0.04877	?
5	1.952	VV S	0.0396	1.21283e4	0.01580	?
6	1.991	VV S	0.0302	1.07727e4	0.01404	?
7	2.034	VV S	0.0422	1.35335e4	0.01764	?
8	2.141	VV S	0.0741	2.04535e4	0.02665	?
9	2.182	VV S	0.0267	8688.21094	0.01132	?
10	2.244	VV S	0.0500	1.36782e4	0.01782	?
11	2.286	VV S	0.0402	9538.84961	0.01243	?
12	2.339	VV S	0.0380	9001.33887	0.01173	?
13	2.385	VV S	0.0318	7613.07666	0.00992	?
14	2.426	VV S	0.0291	6637.50195	0.00865	?
15	2.460	VV S	0.0457	8927.53320	0.01163	?
16	2.518	VV S	0.0398	7637.46240	0.00995	?
17	2.580	VV S	0.0647	1.09379e4	0.01425	?
18	2.637	VV S	0.0596	1.08081e4	0.01408	?
19	2.749	VV S	0.0288	1986.04175	0.00259	?
20	2.779	VB S	0.0183	975.51318	0.00127	?
21	2.814	BB X	0.0116	47.10050	6.138e-5	?
22	3.475	PB	0.0277	12.00442	1.564e-5	?
23	3.562	BB	0.0356	8.19074	1.067e-5	?
24	6.205	VB	0.0407	21.58257	2.813e-5	?
25	6.678	VB	0.0297	92.83358	0.00012	?
26	7.670	PV	0.0219	16.38607	2.135e-5	?
27	7.707	VB	0.0279	40.37153	5.261e-5	?
28	7.876	BV	0.0219	302.78958	0.00039	?
29	8.053	VB	0.0449	30.28831	3.947e-5	?
30	8.846	BP	0.0302	15.07834	1.965e-5	?
31	9.878	PB	0.0225	1.79715	2.342e-6	?
32	9.973	BP	0.0272	22.23527	2.898e-5	?
33	10.119	BB	0.0235	2.33401	3.042e-6	?
34	11.749	BB	0.0271	10.53847	1.373e-5	?
35	12.307	BB	0.0479	69.49090	9.056e-5	?
36	12.680	BP	0.0368	5.62944	7.336e-6	?
37	13.431	BV	0.0221	12.97947	1.691e-5	?
38	14.008	PP	0.0226	2.48874	3.243e-6	?

Uncalib. totals : 7.66810e7 99.9259

Results obtained with enhanced integrator!
2 Warnings or Errors :

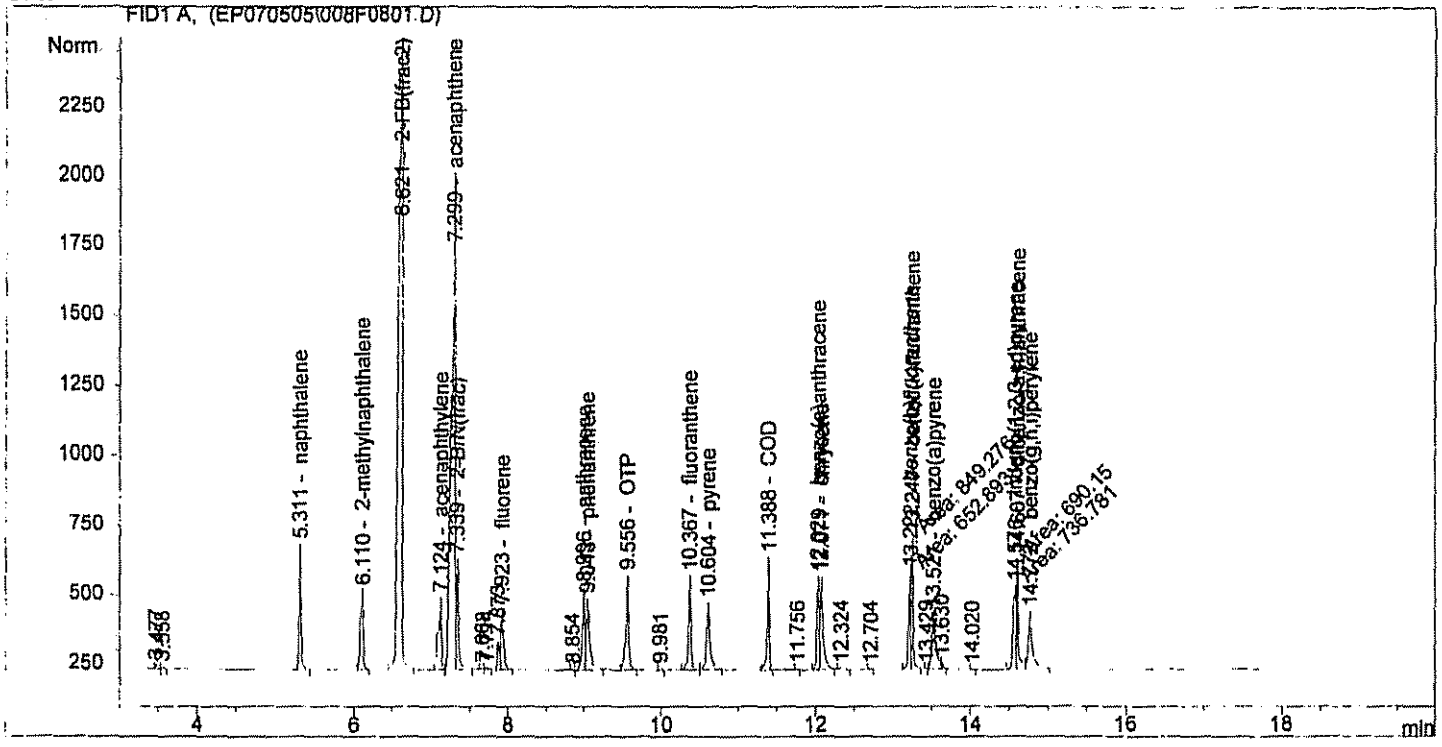
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

Data File C:\HPCHEM\1\DATA\EP070505\008F0801.D Sample Name: R 10 ical

Injection Date	: 7/5/2005 8:24:17 PM	Seq. Line :	8
Sample Name	: R 10 ical	Location :	Vial 8
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:25:57 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:25:40 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.311	BB	0.0257	759.28735	0.00094	naphthalene
2	6.110	PB	0.0345	717.77917	0.00089	2-methylnaphthalene
3	6.621	PB	0.0436	8296.57129	0.01032	2-FB(frac2)
4	7.124	PV	0.0375	721.87189	0.00090	acenaphthylene
5	7.299	VV	0.0454	5749.29248	0.00715	acenaphthene
6	7.339	VB	0.0256	734.45514	0.00091	2-BrN(frac)
7	7.923	VB	0.0325	511.53058	0.00064	fluorene
8	8.996	VV	0.0340	684.11963	0.00085	anthracene
9	9.043	VB	0.0414	753.16272	0.00094	phenanthrene
10	9.556	BB	0.0336	802.95880	0.00100	OTP
11	10.367	BB	0.0320	724.76520	0.00090	fluoranthene
12	10.604	BB	0.0444	772.86615	0.00096	pyrene

Data File C:\HPCHEM\1\DATA\EP070505\008F0801.D Sample Name: R 10 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.388	BB	0.0264	707.93549	0.00088	COD
14	12.029	BV	0.0299	655.07660	0.00081	benzo(a)anthracene
15	12.071	VB	0.0364	831.57806	0.00103	chrysene
16	13.222	MF	0.0315	652.89319	0.00081	benzo(b)fluoranthene
17	13.247	FM	0.0300	849.27576	0.00106	benzo(k)fluoranthene
18	13.527	VV	0.0462	669.95624	0.00083	benzo(a)pyrene
19	14.576	MF	0.0414	736.78082	0.00092	indeno(1,2,3-cd)pyrene
20	14.607	FM	0.0289	690.14990	0.00086	dibenzo(a,h)anthracene
21	14.772	VB	0.0545	785.48206	0.00098	benzo(g,h,i)perylene

Totals : 2.78078e4 3.459e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.566	PV S	0.0132	747.37988	0.00093	?
2	0.675	VV S	0.0292	3.96008e5	0.49263	?
3	1.820	VV S	0.9774	7.97979e7	99.26709	?
4	1.959	VV S	0.1138	3.89370e4	0.04844	?
5	2.068	VV S	0.0817	2.05034e4	0.02551	?
6	2.115	VV S	0.0531	1.24003e4	0.01543	?
7	2.185	VV S	0.0484	1.44270e4	0.01795	?
8	2.248	VV S	0.0385	8142.15771	0.01013	?
9	2.280	VV S	0.0282	6517.15088	0.00811	?
10	2.326	VV S	0.0314	7340.53955	0.00913	?
11	2.363	VV S	0.0372	6874.45264	0.00855	?
12	2.403	VV S	0.0357	7568.43799	0.00941	?
13	2.455	VV S	0.0411	8658.30078	0.01077	?
14	2.509	VV S	0.0340	7557.59131	0.00940	?
15	2.554	VV S	0.0299	5949.49072	0.00740	?
16	2.599	VV S	0.0469	8102.41602	0.01008	?
17	2.648	VV S	0.0348	3804.99854	0.00473	?
18	2.687	VV S	0.0280	2789.33472	0.00347	?
19	2.729	VV S	0.0309	2428.41943	0.00302	?
20	2.771	VB S	0.0301	2264.80884	0.00282	?
21	3.477	PB	0.0202	19.81381	2.465e-5	?
22	3.558	BB	0.0239	9.88446	1.230e-5	?
23	7.668	PV	0.0260	8.62177	1.073e-5	?
24	7.714	VB	0.0278	16.83376	2.094e-5	?
25	7.873	BV	0.0263	188.52881	0.00023	?
26	8.854	BP	0.0237	5.95888	7.413e-6	?
27	9.981	PP	0.0292	10.25769	1.276e-5	?
28	11.756	BB	0.0211	4.92660	6.129e-6	?
29	12.324	BP	0.0578	26.56639	3.305e-5	?
30	12.704	PB	0.0218	1.88195	2.341e-6	?
31	13.429	PV	0.0176	1.88680	2.347e-6	?
32	13.630	VB	0.0254	38.84804	4.833e-5	?
33	14.020	PB	0.0234	1.75642	2.185e-6	?

Uncalib. totals : 8.03592e7 99.9654

Results obtained with enhanced integrator!
2 Warnings or Errors :

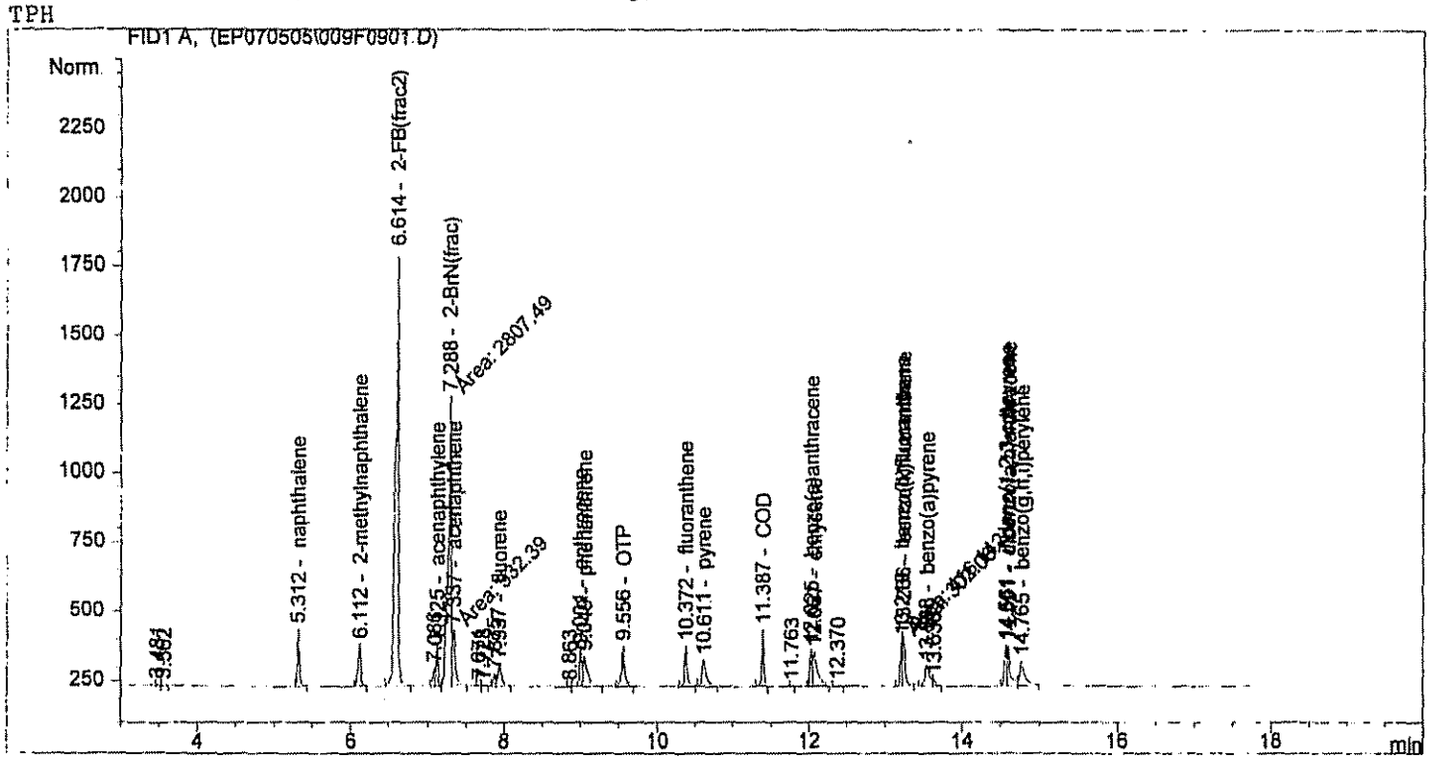
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\009F0901.D Sample Name: R 5 ical

Injection Date	: 7/5/2005 8:52:10 PM	Seq. Line :	9
Sample Name	: R 5 ical	Location :	Vial 9
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:27:20 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/6/2005 8:27:44 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BB	0.0275	381.19046	0.00046	naphthalene
2	6.112	PB	0.0344	365.53854	0.00045	2-methylnaphthalene
3	6.614	BB	0.0357	4271.07813	0.00520	2-FB(frac2)
4	7.125	VV	0.0234	228.60712	0.00028	acenaphthylene
5	7.288	MF	0.0448	2807.48755	0.00342	2-BrN(frac)
6	7.337	FM	0.0444	532.38989	0.00065	acenaphthene
7	7.937	VB	0.0445	266.79672	0.00033	fluorene
8	9.001	VV	0.0320	293.35999	0.00036	anthracene
9	9.049	VB	0.0533	435.87302	0.00053	phenanthrene
10	9.556	BB	0.0387	407.76004	0.00050	OTP
11	10.372	BB	0.0379	362.46796	0.00044	fluoranthene
12	10.611	BB	0.0614	391.06754	0.00048	pyrene

Data File C:\HPCHEM\1\DATA\EP070505\009F0901.D Sample Name: R 5 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.387	BB	0.0265	359.22467	0.00044	COD
14	12.025	BV	0.0293	256.21942	0.00031	benzo(a)anthracene
15	12.067	VB	0.0519	490.22177	0.00060	chrysene
16	13.219	MF	0.0308	302.08035	0.00037	benzo(b)fluoranthene
17	13.236	FM	0.0383	416.14188	0.00051	benzo(k)fluoranthene
18	13.538	PV	0.0561	302.04449	0.00037	benzo(a)pyrene
19	14.561	BV	0.0301	289.19754	0.00035	indeno(1,2,3-cd)pyrene
20	14.591	VV	0.0378	380.25415	0.00046	dibenzo(a,h)anthracene
21	14.765	VB	0.0616	407.44254	0.00050	benzo(g,h,i)perylene

Totals : 1.39464e4 1.699e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.563	PV S	0.0140	759.74811	0.00093	?
2	0.683	VV S	0.0272	4.71086e5	0.57401	?
3	1.835	VV S	0.9971	8.14189e7	99.20795	?
4	1.950	PV T	0.0638	2.90373e4	0.03538	?
5	1.997	VV S	0.0228	8289.62305	0.01010	?
6	2.048	VV S	0.0489	1.32992e4	0.01620	?
7	2.093	VV S	0.0313	8470.81152	0.01032	?
8	2.137	VV S	0.0370	1.00365e4	0.01223	?
9	2.165	VV S	0.0329	7709.98682	0.00939	?
10	2.210	VV S	0.0343	7856.13281	0.00957	?
11	2.246	VV S	0.0270	5997.93506	0.00731	?
12	2.275	VV S	0.0240	5644.15088	0.00688	?
13	2.309	VV S	0.0357	8035.14502	0.00979	?
14	2.364	VV S	0.0360	7999.90137	0.00975	?
15	2.403	VV S	0.0385	8932.79004	0.01088	?
16	2.462	VV S	0.0381	7766.06934	0.00946	?
17	2.501	VV S	0.0397	7978.09717	0.00972	?
18	2.562	VV S	0.0350	7006.06787	0.00854	?
19	2.600	VV S	0.0308	6012.04736	0.00733	?
20	2.636	VV S	0.0245	4077.92383	0.00497	?
21	2.664	VV S	0.0264	2937.18262	0.00358	?
22	2.696	VV S	0.0469	4386.25098	0.00534	?
23	2.771	VB S	0.0397	2436.74902	0.00297	?
24	3.481	PB	0.0212	10.43116	1.271e-5	?
25	3.562	BP	0.0298	5.43903	6.627e-6	?
26	7.086	PV	0.0332	139.99332	0.00017	?
27	7.671	PV	0.0321	4.02950	4.910e-6	?
28	7.728	VP	0.0332	6.47859	7.894e-6	?
29	7.875	BV	0.0295	89.97723	0.00011	?
30	8.863	PV	0.0219	2.26688	2.762e-6	?
31	11.763	BB	0.0205	2.35931	2.875e-6	?
32	12.370	PP	0.0405	12.58713	1.534e-5	?
33	13.630	VB	0.0330	48.26193	5.881e-5	?

Uncalib. totals : 8.20550e7 99.9830

Results obtained with enhanced integrator!
2 Warnings or Errors :

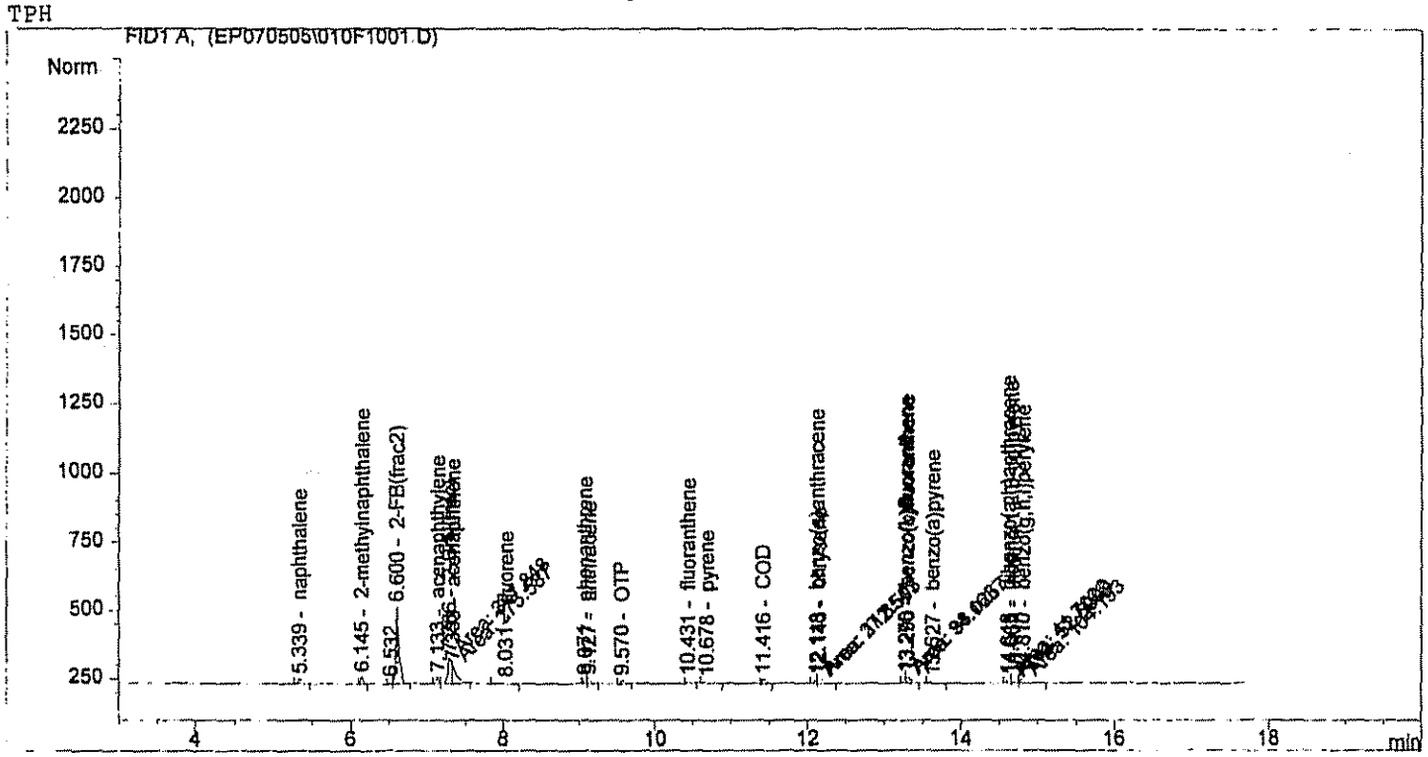
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\010F1001.D Sample Name: R 1 ical

Injection Date	: 7/5/2005 9:19:15 PM	Seq. Line	: 10
Sample Name	: R 1 ical	Location	: Vial 10
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:27:20 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:27:44 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.339	BB	0.0512	64.31669	7.634e-5	naphthalene
2	6.145	BB	0.0378	64.35564	7.638e-5	2-methylnaphthalene
3	6.600	VB	0.0394	807.25494	0.00096	2-FB(frac2)
4	7.133	BV	0.0339	58.26943	6.916e-5	acenaphthylene
5	7.286	MF	0.0601	347.84760	0.00041	2-BrN(frac)
6	7.333	FM	0.0694	275.58743	0.00033	acenaphthene
7	8.031	BB	0.1123	62.26244	7.390e-5	fluorene
8	9.071	PV	0.0353	30.46159	3.615e-5	phenanthrene
9	9.127	VB	0.0686	61.32705	7.279e-5	anthracene
10	9.570	PB	0.0630	60.99045	7.239e-5	OTP
11	10.431	PB	0.0520	47.63327	5.654e-5	fluoranthene
12	10.678	PB	0.0873	55.33611	6.568e-5	pyrene

Data File C:\HPCHEM\1\DATA\EP070505\010F1001.D Sample Name: R 1 ical

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.416	PB	0.0518	62.48400	7.416e-5	COD
14	12.118	MF	0.0344	27.85410	3.306e-5	benzo(a)anthracene
15	12.143	FM	0.1057	112.50302	0.00013	chrysene
16	13.276	MF	0.0271	34.16298	4.055e-5	benzo(k)fluoranthene
17	13.290	FM	0.0687	98.02668	0.00012	benzo(b)fluoranthene
18	13.627	BP	0.0798	59.56261	7.069e-5	benzo(a)pyrene
19	14.618	MF	0.0534	41.70220	4.950e-5	dibenzo(a,h)anthracene
20	14.663	MF	0.0767	52.59986	6.243e-5	indeno(1,2,3-cd)pyrene
21	14.810	FM	0.1217	104.19251	0.00012	benzo(g,h,i)perylene

Totals : 2528.73061 3.001e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.586	BV S	0.0143	4333.71777	0.00514	?
2	1.839	VP S	1.0271	8.40868e7	99.80158	?
3	2.008	VV S	0.0761	3.65618e4	0.04339	?
4	2.059	VV S	0.0345	1.20447e4	0.01430	?
5	2.112	VV S	0.0375	1.27805e4	0.01517	?
6	2.156	VV S	0.0405	1.08336e4	0.01286	?
7	2.224	VV S	0.0529	1.29609e4	0.01538	?
8	2.281	VV S	0.0449	1.06941e4	0.01269	?
9	2.351	VV S	0.0485	1.21059e4	0.01437	?
10	2.403	VV S	0.0348	8085.68506	0.00960	?
11	2.452	VV S	0.0350	7751.59668	0.00920	?
12	2.492	VV S	0.0360	6734.70947	0.00799	?
13	2.553	VV S	0.0550	1.09048e4	0.01294	?
14	2.609	VV S	0.0359	6701.88184	0.00795	?
15	2.653	VV S	0.0348	4843.07471	0.00575	?
16	2.701	VV S	0.0276	2745.96802	0.00326	?
17	2.731	VV S	0.0322	2425.09570	0.00288	?
18	2.781	VB S	0.0288	2030.10254	0.00241	?
19	2.817	BB T	0.0179	88.50211	0.00011	?
20	6.532	PV	0.0308	19.19580	2.278e-5	?

Uncalib. totals : 8.42515e7 99.9970

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

EPH CVS Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/16/05

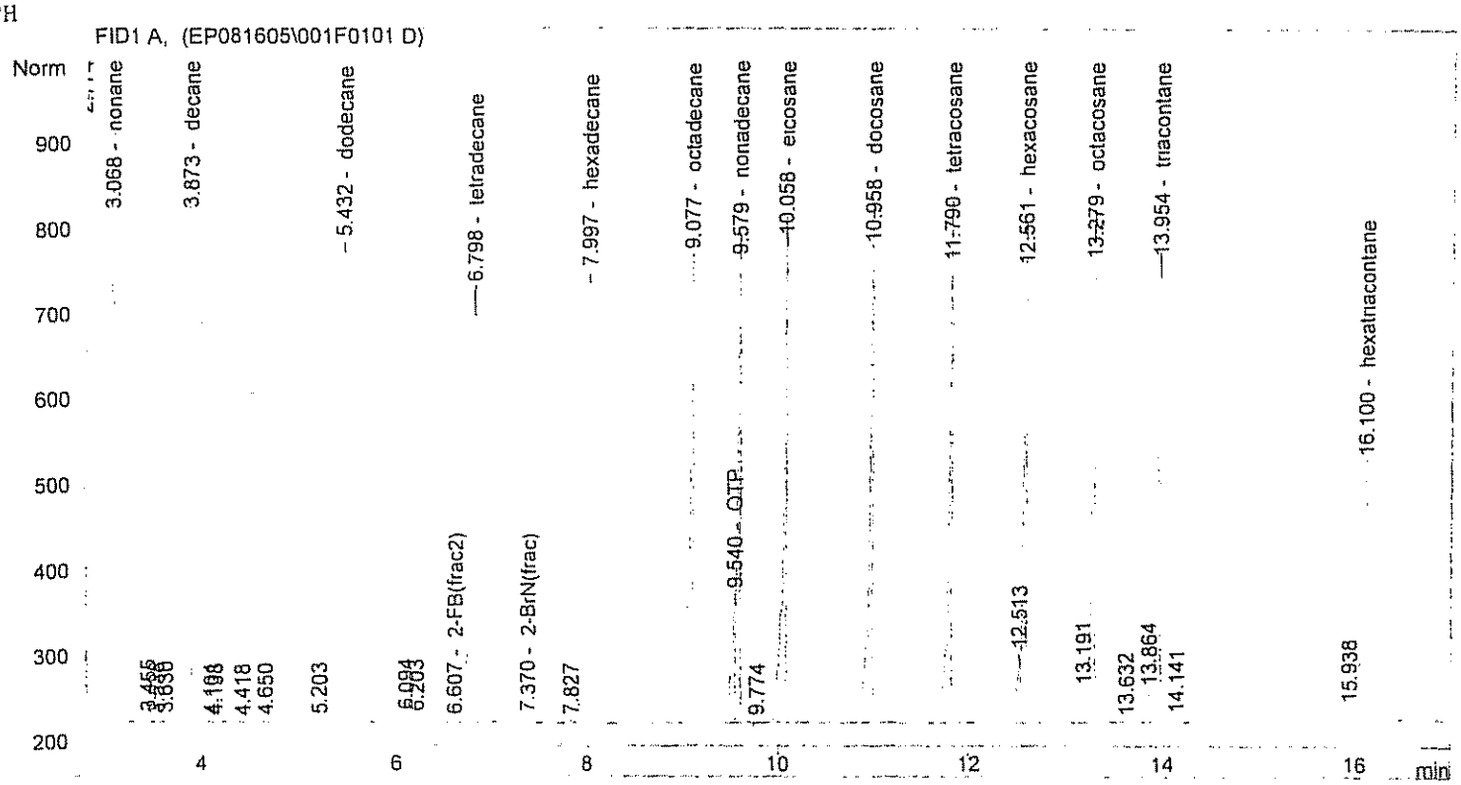
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.1
C_{19}-C_{36} Aliphatics	160	3.3
C_{11}-C_{22} Aromatics	340	-12.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Injection Date : 8/16/2005 11:55:26 AM
Sample Name : K 20 ccal
Acq. Operator : DCS
Acq. Instrument : GC6
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed : 8/12/2005 9:02:25 AM by DCS
TPH

Seq. Line : 1
Location : Vial 1
Inj : 1
Inj Volume : 10 µl



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 8/12/2005 9:02:21 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.068	VV	0.0205	1295.99744	0.00162	nonane
2	3.873	BV	0.0203	1288.02612	0.00161	decane
3	5.432	BB	0.0330	1303.30725	0.00163	dodecane
4	6.607	VV	0.0430	10.14609	1.272e-5	2-FB(frac2)
5	6.798	VB	0.0352	1321.81458	0.00166	tetradecane
6	7.370	PB	0.0535	22.87624	2.868e-5	2-BrN(frac)
7	7.997	VB	0.0343	1327.23633	0.00166	hexadecane
8	9.077	VB	0.0333	1327.05847	0.00166	octadecane
9	9.540	VV	0.0308	334.71103	0.00042	OTP
10	9.579	VV	0.0252	992.77411	0.00124	nonadecane
11	10.058	BB	0.0314	1331.16614	0.00167	eicosane
12	10.958	VP	0.0318	1338.44275	0.00168	docosane
13	11.435		0.0000	0.00000	0.00000	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.790	VB	0.0316	1331.18640	0.00167	tetracosane
15	12.561	VB	0.0274	1128.74121	0.00142	hexacosane
16	13.279	VB	0.0296	1259.93506	0.00158	octacosane
17	13.954	VV	0.0336	1239.82715	0.00155	triacontane
18	16.100	VB	0.0538	1115.19824	0.00140	hexatriacontane

Totals : 1.79684e4 2.253e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.545	BV	0.0219	44.81232	5.618e-5	?
2	1.797	VV S	0.9859	7.95953e7	99.78741	?
3	1.908	PV T	0.0898	1.30877e4	0.01641	?
4	1.952	VV S	0.0201	9097.59473	0.01141	?
5	1.981	VV S	0.0262	6950.13818	0.00871	?
6	2.019	VV S	0.0383	1.13317e4	0.01421	?
7	2.066	VV S	0.0377	1.12493e4	0.01410	?
8	2.138	VV S	0.0508	1.31879e4	0.01653	?
9	2.182	VV S	0.0329	8827.50781	0.01107	?
10	2.237	VV S	0.0409	1.02289e4	0.01282	?
11	2.286	VV S	0.0463	9820.29590	0.01231	?
12	2.344	VV S	0.0286	7141.24707	0.00895	?
13	2.377	VV S	0.0261	5268.97412	0.00661	?
14	2.424	VV S	0.0552	9919.19629	0.01244	?
15	2.483	VV S	0.0339	7560.72412	0.00948	?
16	2.536	VV S	0.0703	1.21952e4	0.01529	?
17	2.617	VV S	0.0597	1.18011e4	0.01479	?
18	2.727	VV S	0.0434	2382.77881	0.00299	?
19	2.774	VBAS	0.0207	1020.70068	0.00128	?
20	3.455	BV	0.0201	6.79802	8.523e-6	?
21	3.538	VV	0.0302	4.77718	5.989e-6	?
22	3.630	VP	0.0215	4.71896	5.916e-6	?
23	4.101	VV	0.0301	3.96101	4.966e-6	?
24	4.138	VB	0.0575	6.21013	7.786e-6	?
25	4.418	VB	0.0364	2.77092	3.474e-6	?
26	4.650	PP	0.0361	2.84233	3.563e-6	?
27	5.203	VP	0.0321	5.24297	6.573e-6	?
28	6.094	PV	0.0249	13.14167	1.648e-5	?
29	6.203	VV	0.0302	14.38876	1.804e-5	?
30	7.827	VP	0.0370	7.13989	8.951e-6	?
31	9.774	VB	0.0330	3.67686	4.610e-6	?
32	12.513	VV	0.0334	202.20897	0.00025	?
33	13.191	BV	0.0255	63.03443	7.903e-5	?
34	13.632	BP	0.0273	2.60023	3.260e-6	?
35	13.864	VV	0.0274	62.73256	7.865e-5	?
36	14.141	VB	0.0641	18.56040	2.327e-5	?
37	15.938	PV	0.0590	60.34916	7.566e-5	?

Uncalib. totals : 7.97469e7 99.9775

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==================================================================================
Injection Date  : 8/16/2005 12:21:53 PM          Seq. Line :   2
Sample Name     : R 20 ccal                       Location : Vial 2
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                            Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 8/16/2005 1:50:42 PM by DCS
                  (modified after loading)
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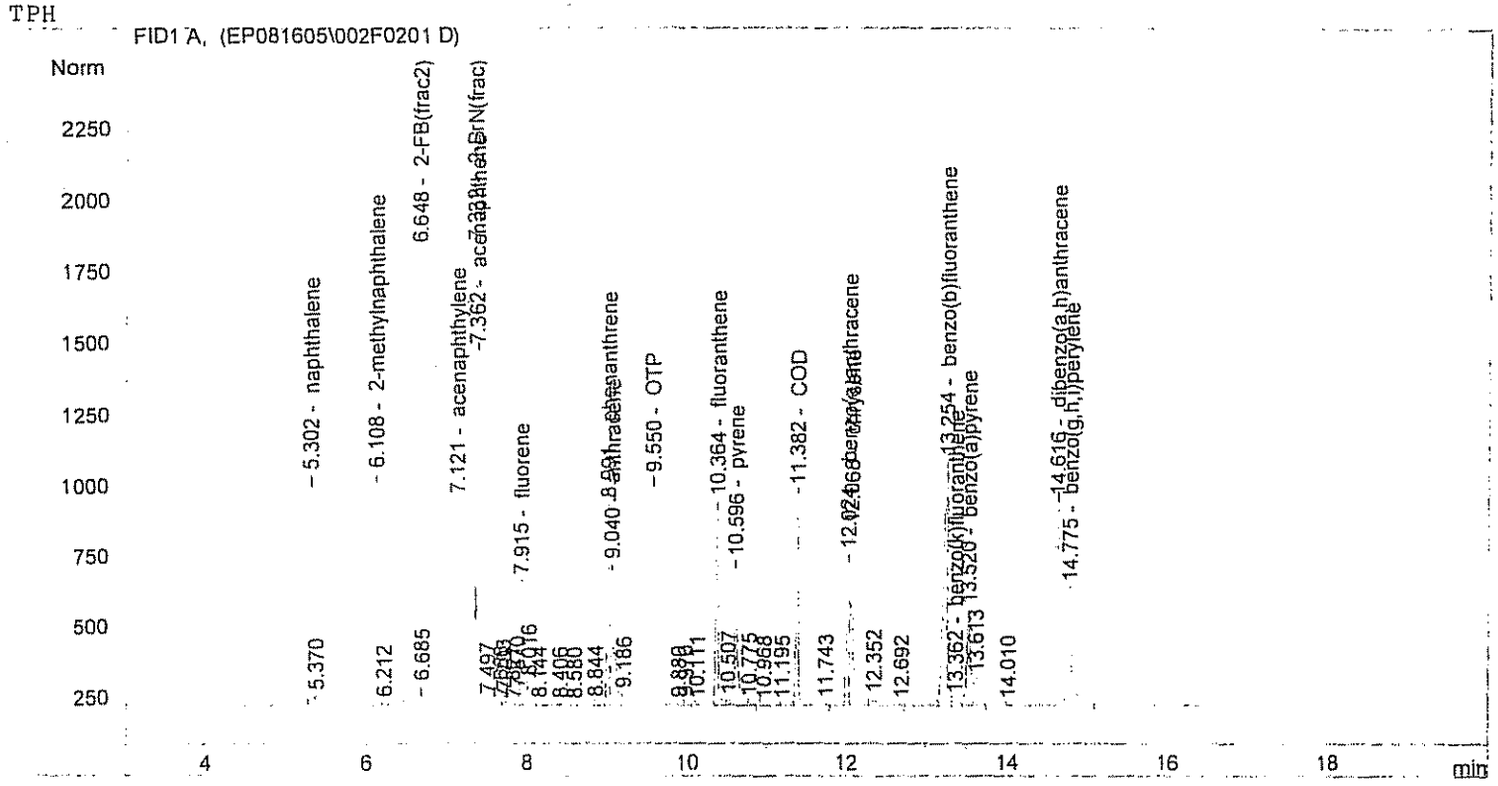
TPH

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==================================================================================
                              Area Percent Report
==================================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/16/2005 1:50:55 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.302	BV	0.0257	1376.11951	0.00196	naphthalene
2	6.108	BV	0.0253	1434.23914	0.00205	2-methylnaphthalene
3	6.648	PV	0.0476	1.79507e4	0.02560	2-FB(frac2)
4	7.121	BV	0.0284	1464.69592	0.00209	acenaphthylene
5	7.332	VV	0.0465	1.24047e4	0.01769	2-BrN(frac)
6	7.362	VB	0.0163	1421.27527	0.00203	acenaphthene
7	7.915	VV	0.0367	1171.47876	0.00167	fluorene
8	8.991	BV	0.0272	1237.46704	0.00176	phenanthrene
9	9.040	VV	0.0406	1432.41394	0.00204	anthracene
10	9.550	PB	0.0274	1547.42065	0.00221	OTP
11	10.364	BB	0.0281	1374.12366	0.00196	fluoranthene
12	10.596	VV	0.0399	1481.19336	0.00211	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.382	BB	0.0256	1347.78003	0.00192	COD
14	12.024	BV	0.0336	1216.89893	0.00174	benzo(a)anthracene
15	12.068	VB	0.0359	1668.01611	0.00238	chrysene
16	13.254	PV	0.0422	2912.49927	0.00415	benzo(b)fluoranthene
17	13.362	VV	0.0648	95.52637	0.00014	benzo(k)fluoranthene
18	13.520	VV	0.0468	1098.14722	0.00157	benzo(a)pyrene
19	14.616	PV	0.0563	2754.27100	0.00393	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.775	VB	0.0489	1532.20557	0.00218	benzo(g,h,i)perylene

Totals : 5.69212e4 8.117e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.529	BV	0.0197	95.28663	0.00014	?
2	1.634	VV S	0.8545	6.73963e7	96.10670	?
3	1.690	VV S	0.0175	8.18786e5	1.16758	?
4	1.751	VV S	0.0375	1.46377e5	0.20873	?
5	1.801	VV S	0.0353	1.33492e5	0.19036	?
6	1.837	VV S	0.0389	1.25254e5	0.17861	?
7	1.885	VV S	0.0286	1.05596e5	0.15058	?
8	1.929	VV S	0.0274	8.92658e4	0.12729	?
9	1.977	VV S	0.0383	1.07111e5	0.15274	?
10	2.022	VV S	0.0365	1.15281e5	0.16439	?
11	2.090	VV S	0.0532	1.25749e5	0.17932	?
12	2.146	VV S	0.0493	1.19749e5	0.17076	?
13	2.211	VV S	0.0423	1.05573e5	0.15055	?
14	2.299	VV S	0.0627	1.34143e5	0.19129	?
15	2.343	VV S	0.0403	6.90833e4	0.09851	?
16	2.388	VV S	0.0293	7.08880e4	0.10109	?
17	2.431	VV S	0.0329	7.73258e4	0.11027	?
18	2.485	VV S	0.0301	6.36771e4	0.09080	?
19	2.527	VV S	0.0355	7.62539e4	0.10874	?
20	2.582	VV S	0.0298	5.50624e4	0.07852	?
21	2.619	VV S	0.0618	1.00792e5	0.14373	?
22	2.736	VV S	0.0290	2.04795e4	0.02920	?
23	2.777	VV S	0.0212	1.10446e4	0.01575	?
24	2.812	VB S	0.0194	857.21692	0.00122	?
25	5.370	VB	0.0388	86.14278	0.00012	?
26	6.212	VB	0.0392	25.53235	3.641e-5	?
27	6.685	VB	0.0205	99.21985	0.00014	?
28	7.497	BV	0.0762	114.77750	0.00016	?
29	7.666	VV	0.0267	10.59995	1.512e-5	?
30	7.703	VB	0.0294	61.99225	8.840e-5	?
31	7.821	BV	0.0406	11.73741	1.674e-5	?
32	7.870	VV	0.0206	54.03517	7.705e-5	?
33	8.016	VB	0.0380	216.63406	0.00031	?
34	8.144	BB	0.0485	23.29434	3.322e-5	?
35	8.406	PP	0.0289	3.40400	4.854e-6	?
36	8.580	PB	0.0286	5.35164	7.631e-6	?
37	8.844	PB	0.0204	13.98258	1.994e-5	?
38	9.186	VB	0.0474	122.83617	0.00018	?
39	9.880	PP	0.0273	7.64984	1.091e-5	?
40	9.970	VB	0.0343	17.76585	2.533e-5	?
41	10.111	PP	0.0215	3.38299	4.824e-6	?
42	10.507	BV	0.0422	54.31075	7.745e-5	?
43	10.775	VB	0.0406	29.73292	4.240e-5	?
44	10.968	PP	0.0340	4.25753	6.071e-6	?
45	11.195	BB	0.0265	3.34500	4.770e-6	?
46	11.743	PB	0.0239	11.56341	1.649e-5	?
47	12.352	BB	0.0473	74.95530	0.00011	?
48	12.692	PB	0.0229	3.84711	5.486e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	13.613	VB	0.0486	313.75174	0.00045	?
50	14.010	PP	0.0236	2.62424	3.742e-6	?

Uncalib. totals : 7.00696e7 99.9188

Results obtained with enhanced integrator!
2 Warnings or Errors :

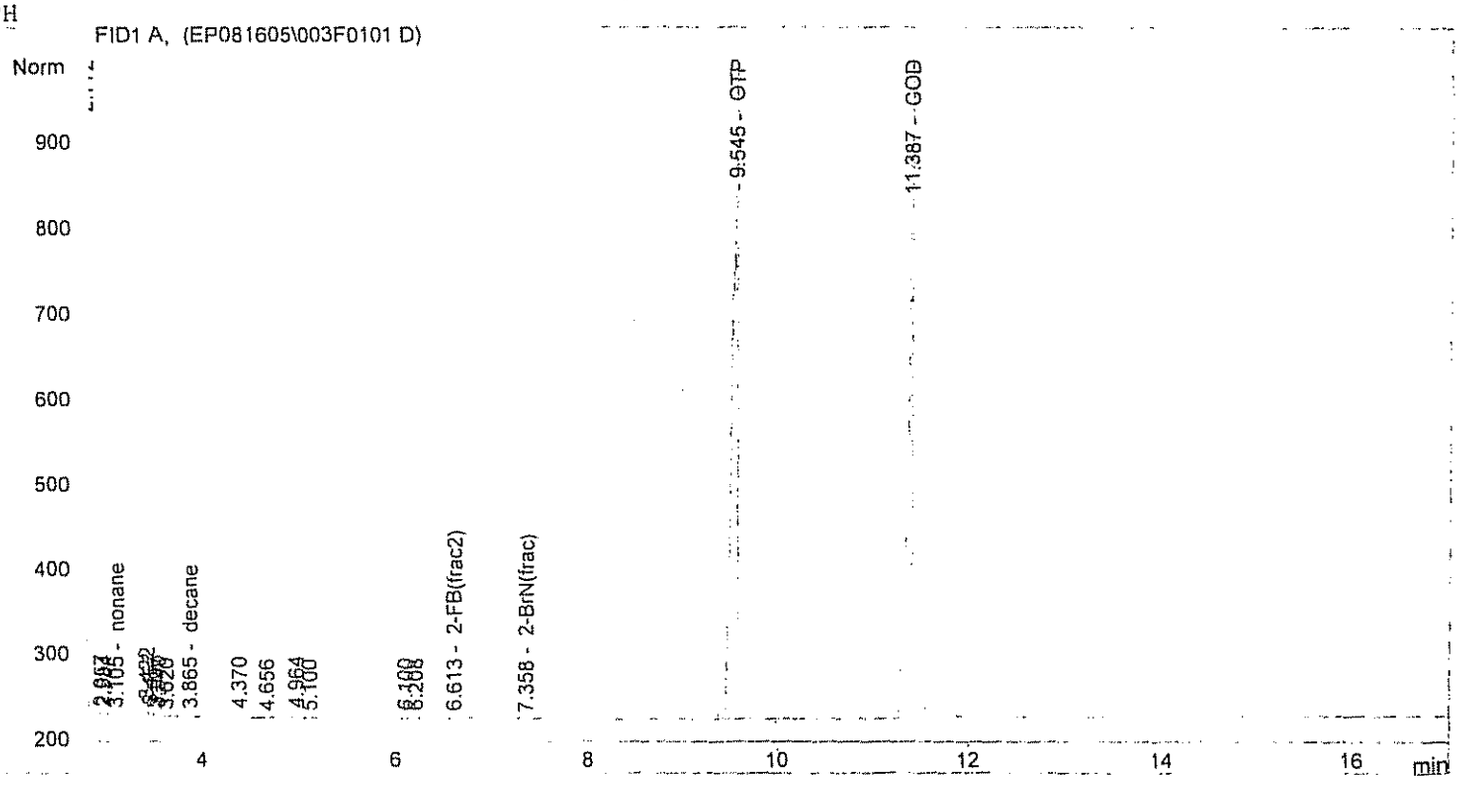
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

EPH QC, Blanks Raw Data

Injection Date	: 8/16/2005 3:14:04 PM	Seq. Line	: 1
Sample Name	: pb3426	Location	: Vial 3
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 8/12/2005 9:02:25 AM by DCS		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	8/12/2005 9:02:21 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.105	VP	0.0184	1.53758	2.017e-6	nonane
2	3.865	VV	0.0380	7.62395	1.000e-5	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.613	VB	0.0982	20.04276	2.629e-5	2-FB(frac2)
5	6.898		0.0000	0.00000	0.00000	tetradecane
6	7.358	VV	0.1211	12.78019	1.676e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.545	BB	0.0516	2972.90967	0.00390	OTP
10	9.581		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	11.057		0.0000	0.00000	0.00000	docosane
13	11.387	PB	0.0382	2569.22461	0.00337	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.284		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5584.11875 7.325e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.575	VV	0.0176	272.49493	0.00036	?
2	1.793	VV S	0.9380	7.52872e7	98.75978	?
3	1.847	VV S	0.0170	7.99442e5	1.04869	?
4	1.911	VV S	0.0443	1.53931e4	0.02019	?
5	1.947	VV S	0.0257	8234.66699	0.01080	?
6	1.994	VV S	0.0429	1.26713e4	0.01662	?
7	2.057	VV S	0.0368	9972.68945	0.01308	?
8	2.097	VV S	0.0318	8159.64697	0.01070	?
9	2.135	VV S	0.0289	6998.01855	0.00918	?
10	2.178	VV S	0.0320	7993.89844	0.01049	?
11	2.213	VV S	0.0243	5230.28320	0.00686	?
12	2.249	VV S	0.0334	6632.80859	0.00870	?
13	2.286	VV S	0.0655	1.31183e4	0.01721	?
14	2.385	VV S	0.0555	9225.45020	0.01210	?
15	2.442	VV S	0.0411	7216.16504	0.00947	?
16	2.487	VV S	0.0347	5993.33984	0.00786	?
17	2.532	VV S	0.0319	5626.76611	0.00738	?
18	2.584	VV S	0.0364	6385.51172	0.00838	?
19	2.632	VV S	0.0312	5179.38574	0.00679	?
20	2.671	VV S	0.0710	4714.49707	0.00618	?
21	2.772	VBAS	0.0303	1318.59009	0.00173	?
22	2.957	BV	0.0169	1.85799	2.437e-6	?
23	2.984	VV	0.0268	2.38295	3.126e-6	?
24	3.422	VV	0.0199	16.85759	2.211e-5	?
25	3.457	VV	0.0259	12.23668	1.605e-5	?
26	3.507	VV	0.0207	4.24478	5.568e-6	?
27	3.540	VV	0.0432	10.04901	1.318e-5	?
28	3.620	VP	0.0630	6.01128	7.885e-6	?
29	4.370	VV	0.0435	12.03726	1.579e-5	?
30	4.656	VV	0.0412	3.02555	3.969e-6	?
31	4.964	VV	0.0362	12.31132	1.615e-5	?
32	5.100	VB	0.0313	3.01444	3.954e-6	?
33	6.100	PB	0.0230	4.71929	6.191e-6	?
34	6.208	PB	0.0276	4.75981	6.244e-6	?

Uncalib. totals : 7.62271e7 99.9927

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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==================================================================
Injection Date  : 8/18/2005 5:45:15 AM          Seq. Line :  47
Sample Name     : lcs3426 x1 K                   Location : Vial 47
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081705.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 8/12/2005 9:02:25 AM by DCS
TPH
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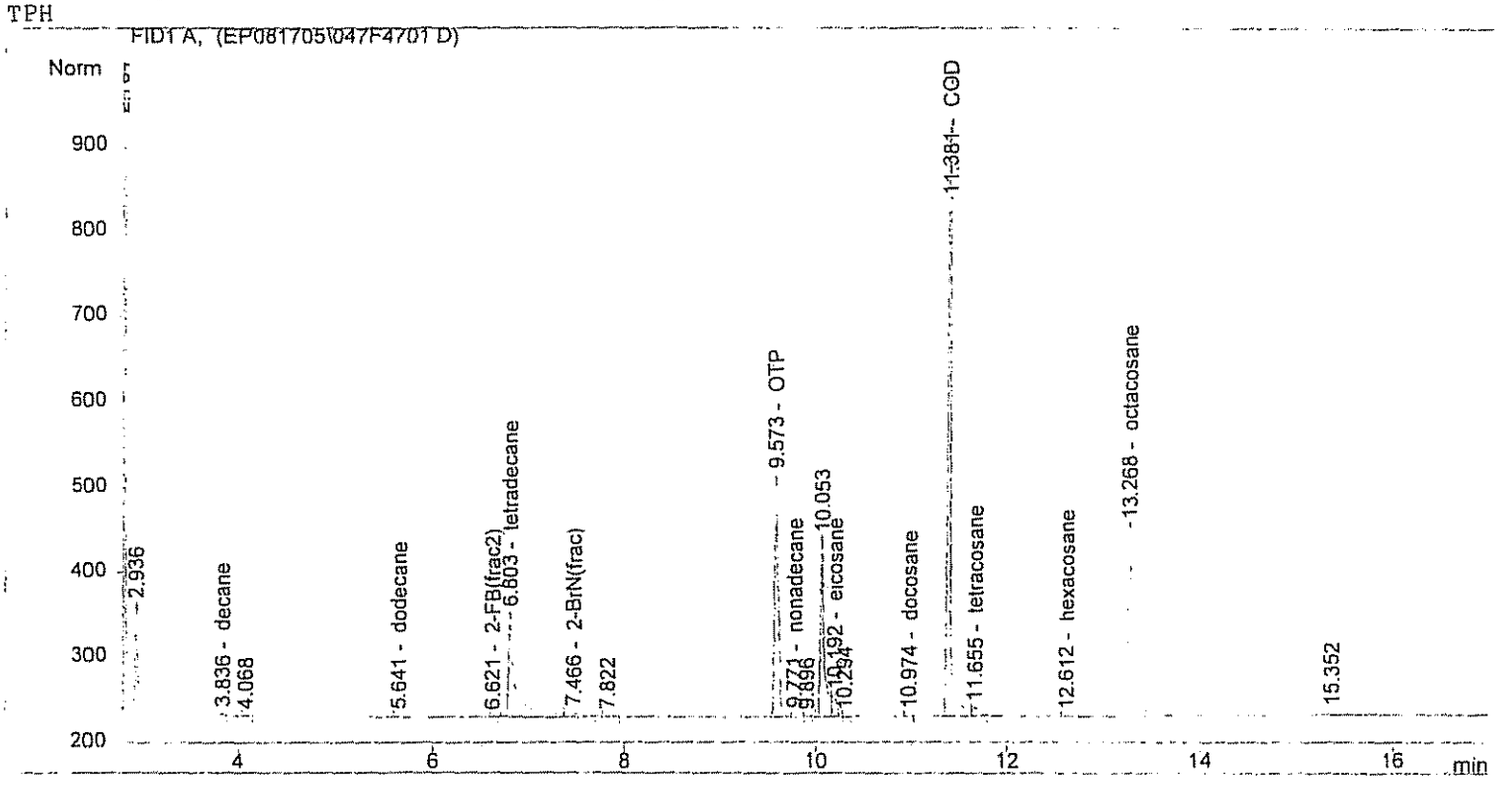


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==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:02:21 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|--------------------
   1   3.072         0.0000    0.00000  0.00000 nonane
   2   3.836 VB      0.0236    4.80275 8.611e-6 decane
   3   5.641 BB      0.0427    5.40118 9.684e-6 dodecane
   4   6.621 BP      0.0242    1.77954 3.191e-6 2-FB(frac2)
   5   6.803 BB      0.0653  613.19202  0.00110 tetradecane
   6   7.466 BB      0.0968   40.83224 7.321e-5 2-BrN(frac)
   7   8.095         0.0000    0.00000  0.00000 hexadecane
   8   9.080         0.0000    0.00000  0.00000 octadecane
   9   9.573 BV      0.0376  748.07159  0.00134 OTP
  10   9.771 VV      0.0732   15.01598 2.692e-5 nonadecane
  11  10.192 VV      0.0480   88.54702  0.00016 eicosane
  12  10.974 VV      0.0344    4.59684 8.242e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.381	VV	0.0314	1674.63513	0.00300	COD
14	11.655	VB	0.0492	34.85169	6.249e-5	tetracosane
15	12.612	BV	0.0348	2.66217	4.773e-6	hexacosane
16	13.268	VB	0.0412	621.20502	0.00111	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3855.59317 6.913e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.384	VV S	0.4691	5.07538e7	90.99696	?
2	1.474	VV S	0.0185	9.02512e5	1.61812	?
3	1.534	VV S	0.0356	2.84895e5	0.51079	?
4	1.577	VV S	0.0284	2.42661e5	0.43507	?
5	1.661	VV S	0.0641	3.67718e5	0.65929	?
6	1.720	VV S	0.0471	2.77566e5	0.49765	?
7	1.795	VV S	0.0354	2.32097e5	0.41613	?
8	1.835	VV S	0.0414	2.13383e5	0.38258	?
9	1.926	VV S	0.0558	2.75900e5	0.49466	?
10	1.976	VV S	0.0351	1.72725e5	0.30968	?
11	2.014	VV S	0.0272	1.35427e5	0.24281	?
12	2.068	VV S	0.0379	1.92839e5	0.34574	?
13	2.120	VV S	0.0311	1.51090e5	0.27089	?
14	2.171	VV S	0.0501	2.11882e5	0.37988	?
15	2.247	VV S	0.0364	1.82853e5	0.32784	?
16	2.291	VV S	0.0363	1.61762e5	0.29002	?
17	2.352	VV S	0.0313	1.51922e5	0.27238	?
18	2.397	VV S	0.0257	1.14285e5	0.20490	?
19	2.441	VV S	0.0294	1.14638e5	0.20554	?
20	2.481	VV S	0.0302	1.31880e5	0.23645	?
21	2.532	VV S	0.0347	1.39937e5	0.25090	?
22	2.602	VV S	0.0488	1.64199e5	0.29439	?
23	2.643	VV S	0.0244	8.40255e4	0.15065	?
24	2.684	VV S	0.0302	5.20818e4	0.09338	?
25	2.735	VV S	0.0349	3.67166e4	0.06583	?
26	2.781	VBAS	0.0199	2.19701e4	0.03939	?
27	2.936	VP	0.0106	56.25461	0.00010	?
28	4.068	BB	0.0271	2.19482	3.935e-6	?
29	7.822	PP	0.0505	5.32626	9.550e-6	?
30	9.896	VV	0.0483	4.30162	7.712e-6	?
31	10.053	VV	0.0370	559.32812	0.00100	?
32	10.294	VV	0.0431	3.51260	6.298e-6	?
33	15.352	BB	0.0427	11.75919	2.108e-5	?

Uncalib. totals : 5.57714e7 99.9931

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==================================================================
Injection Date  : 8/18/2005 6:12:20 AM          Seq. Line :  48
Sample Name     : lcs3426 x1 R                   Location : Vial 48
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081705.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 8/12/2005 9:03:24 AM by DCS
TPH
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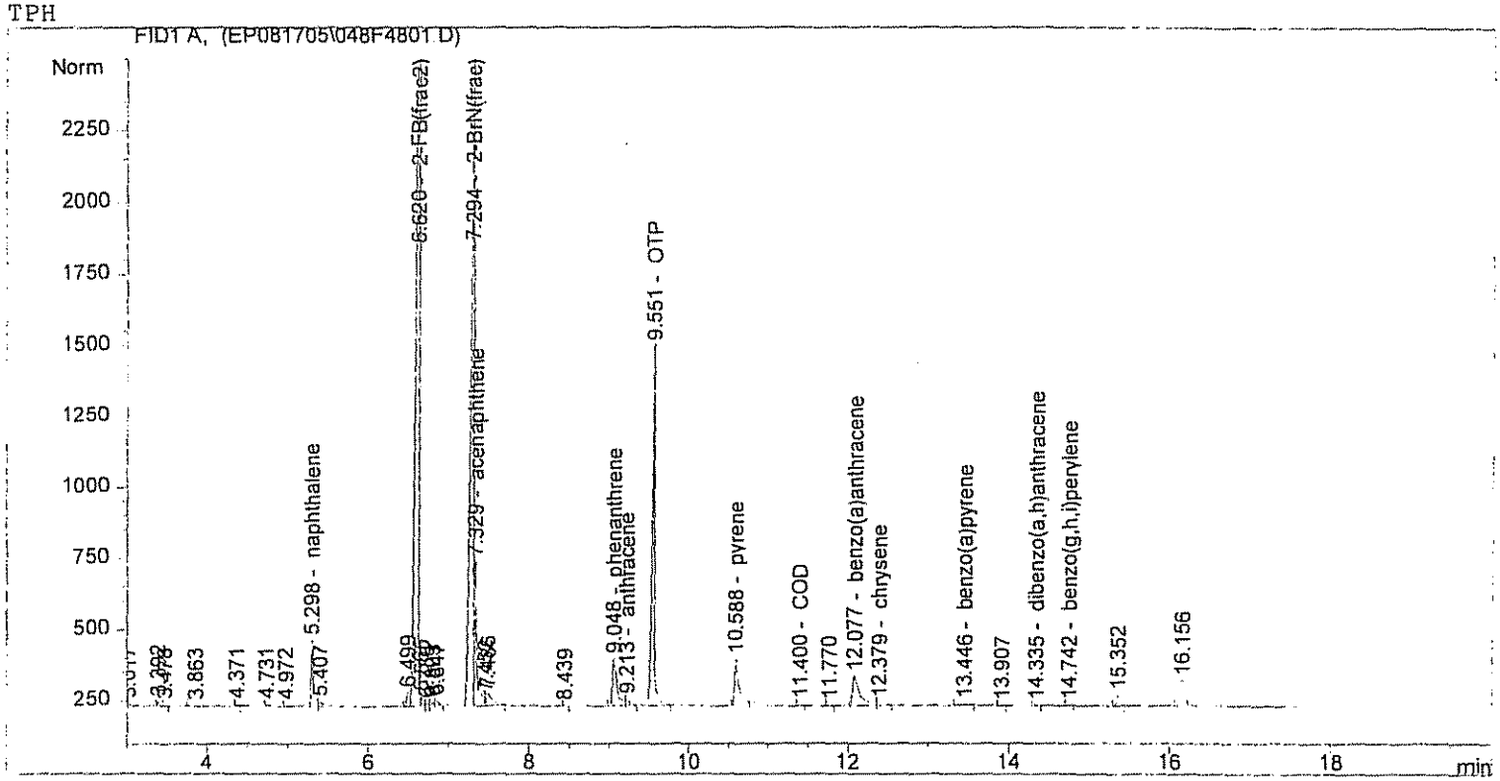



```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:03:08 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.298	PV	0.0288	454.96683	0.00064	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.620	VV	0.0372	9261.16016	0.01293	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.294	PV	0.0360	6080.89551	0.00849	2-BrN(frac)
6	7.329	VV	0.0270	954.15240	0.00133	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.048	BB	0.0612	623.12598	0.00087	phenanthrene
9	9.213	BB	0.0413	72.12652	0.00010	anthracene
10	9.551	BB	0.0309	2701.23315	0.00377	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.588	PB	0.0522	602.71094	0.00084	pyrene

ta File C:\HPCHEM\1\DATA\EP081705\048F4801.D Sample Name: lcs3426 x1 R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.400	PB	0.0345	14.34921	2.003e-5	COD
14	12.077	PB	0.0749	649.09576	0.00091	benzo(a)anthracene
15	12.379	BB	0.0775	52.11444	7.275e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.446	PB	0.0762	22.43622	3.132e-5	benzo(a)pyrene
19	14.335	BB	0.0350	3.77975	5.277e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.742	BB	0.0371	4.08187	5.698e-6	benzo(g,h,i)perylene

Totals : 2.14962e4 3.001e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.639	BV S	0.8787	6.90505e7	96.39563	?
2	1.750	VV S	0.0496	2.62603e5	0.36660	?
3	1.797	VV S	0.0239	1.31790e5	0.18398	?
4	1.835	VV S	0.0348	1.70081e5	0.23744	?
5	1.895	VV S	0.0410	1.84413e5	0.25744	?
6	1.962	VV S	0.0361	1.85714e5	0.25926	?
7	2.000	VV S	0.0314	1.19107e5	0.16628	?
8	2.044	VV S	0.0288	1.13863e5	0.15895	?
9	2.096	VV S	0.0325	1.26536e5	0.17665	?
10	2.137	VV S	0.0280	1.10231e5	0.15388	?
11	2.178	VV S	0.0286	9.66010e4	0.13486	?
12	2.210	VV S	0.0273	8.78220e4	0.12260	?
13	2.252	VV S	0.0253	8.58038e4	0.11978	?
14	2.294	VV S	0.0324	1.06527e5	0.14871	?
15	2.335	VV S	0.0330	1.11599e5	0.15579	?
16	2.392	VV S	0.0419	1.20776e5	0.16861	?
17	2.458	VV S	0.0482	1.44237e5	0.20136	?
18	2.522	VV S	0.0395	1.18175e5	0.16497	?
19	2.585	VV S	0.0551	1.23871e5	0.17293	?
20	2.640	VV S	0.0403	9.84000e4	0.13737	?
21	2.733	VV S	0.0539	4.34272e4	0.06063	?
22	2.778	VV S	0.0234	1.62516e4	0.02269	?
23	2.812	VB S	0.0218	1389.56970	0.00194	?
24	3.017	PB	0.0219	3.74206	5.224e-6	?
25	3.392	PB	0.0223	18.62057	2.599e-5	?
26	3.478	BB	0.0212	3.49500	4.879e-6	?
27	3.863	BB	0.0312	6.51238	9.091e-6	?
28	4.371	BB	0.0250	10.42255	1.455e-5	?
29	4.731	PB	0.0298	12.77045	1.783e-5	?
30	4.972	PB	0.0272	7.69767	1.075e-5	?
31	5.407	VB	0.0595	58.84347	8.215e-5	?
32	6.499	PV	0.0437	133.17725	0.00019	?
33	6.665	VV	0.0250	59.28048	8.276e-5	?
34	6.730	VV	0.0314	19.65728	2.744e-5	?
35	6.803	VV	0.0290	26.45489	3.693e-5	?
36	6.847	VB	0.0329	42.14429	5.883e-5	?
37	7.452	VV	0.0162	35.58072	4.967e-5	?
38	7.486	VB	0.0626	214.93082	0.00030	?
39	8.439	PB	0.0325	5.26606	7.352e-6	?
40	11.770	PB	0.0339	5.70814	7.969e-6	?
41	13.907	PB	0.0339	3.49608	4.881e-6	?
42	15.352	BB	0.0416	106.74163	0.00015	?
43	16.156	PB	0.0671	406.16016	0.00057	?

Uncalib. totals : 7.16109e7 99.9700

Results obtained with enhanced integrator!
2 Warnings or Errors :

ta File C:\HPCHEM\1\DATA\EP081705\048F4801.D Sample Name: lcs3426 x1 R

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

***) End of Report ***

External Standard Report

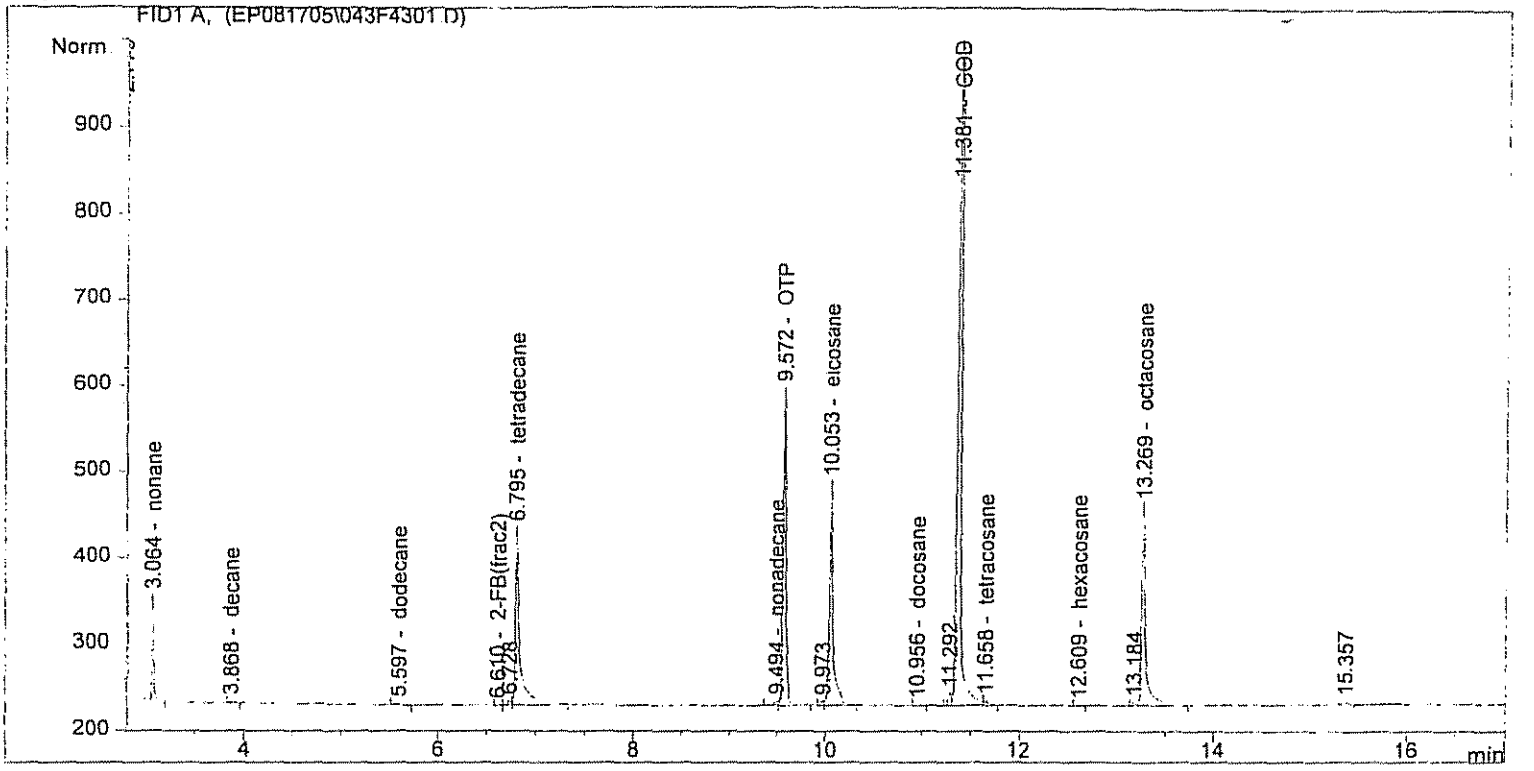
ata File Name : C:\HPCHEM\1\DATA\EP081705\043F4301.D
perator : DCS
nstrument : GC6
ample Name : G161-2104-1P x1 ms K
un Time Bar Code: 151864
cquired on : 18 Aug 05 3:55:00 AM
eport Created on: 18 Aug 2005 8:56:00 AM
ast Recalib on : 12 Aug 2005 9:02:21 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 43
Injection Number : 1
Sequence Line : 43
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP081705\043F4301.D

et Time	Area	Type	Width	Ref#	ng	Name
3.064	149.72527	BB	0.01	1	0.00018	nonane
3.868	5.42576	VB	0.03	2	6.491e-6	decane
5.597	6.13527	BB	0.05	3	7.340e-6	dodecane
6.610	2.49803	PV	0.02	4	2.988e-6	2-FB(frac2)
6.795	647.35742	VB	0.04	5	0.00077	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.080	0.00000	XX	0.00	8	0.00000	octadecane
9.494	13.21356	PV	0.03	9	1.581e-5	nonadecane
9.572	817.57715	VB	0.03	10	0.00098	OTP
10.053	698.32251	VB	0.03	11	0.00084	eicosane
10.956	5.09946	VB	0.04	12	6.100e-6	docosane
11.381	2085.44995	VV	0.03	13	0.00249	COD
11.658	19.34738	VP	0.04	14	2.315e-5	tetracosane
12.609	2.62091	VB	0.03	15	3.135e-6	hexacosane
13.269	651.99176	VB	0.04	16	0.00078	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.521	3.00662	PP	0.01	1	3.597e-6	* uncalibrated *
0.557	168.58072	VV	0.02	2	0.00020	* uncalibrated *
1.774	8.23359e7	VVS	0.72	3	98.49759	* uncalibrated *
1.871	9.32803e5	VVS	0.01	4	1.11590	* uncalibrated *
1.931	2.02077e4	VVS	0.02	5	0.02417	* uncalibrated *
1.975	3.11351e4	VVS	0.04	6	0.03725	* uncalibrated *
2.031	2.04519e4	VVS	0.03	7	0.02447	* uncalibrated *
2.071	2.00617e4	VVS	0.02	8	0.02400	* uncalibrated *
2.110	1.92490e4	VVS	0.02	9	0.02303	* uncalibrated *
2.158	2.16496e4	VVS	0.03	10	0.02590	* uncalibrated *
2.194	1.98154e4	VVS	0.03	11	0.02371	* uncalibrated *
2.239	1.92791e4	VVS	0.03	12	0.02306	* uncalibrated *
2.301	1.79138e4	VVS	0.03	13	0.02143	* uncalibrated *
2.349	2.07587e4	VVS	0.03	14	0.02483	* uncalibrated *
2.398	1.79982e4	VVS	0.03	15	0.02153	* uncalibrated *
2.445	1.74241e4	VVS	0.03	16	0.02084	* uncalibrated *
2.502	1.67626e4	VVS	0.03	17	0.02005	* uncalibrated *
2.548	1.67087e4	VVS	0.03	18	0.01999	* uncalibrated *
2.608	1.60634e4	VVS	0.03	19	0.01922	* uncalibrated *
2.647	1.01673e4	VVS	0.03	20	0.01216	* uncalibrated *
2.703	9424.95215	VVS	0.05	21	0.01127	* uncalibrated *
2.775	2666.89673	VBAS	0.02	22	0.00319	* uncalibrated *
6.728	12.45216	VV	0.03	23	1.490e-5	* uncalibrated *
9.973	8.97988	PV	0.02	24	1.074e-5	* uncalibrated *
11.292	33.52827	VV	0.03	25	4.011e-5	* uncalibrated *

```
==========================================================================
Injection Date  : 8/18/2005 3:55:00 AM          Seq. Line :  43
Sample Name     : 151864 x1 ms K                 Location : Vial 43
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081705.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 8/12/2005 9:02:25 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:02:21 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|--------------------
   1   3.064 BB     0.0194  149.72527  0.00018 nonane
   2   3.868 VB     0.0345    5.42576 6.491e-6 decane
   3   5.597 BB     0.0554    6.13527 7.340e-6 dodecane
   4   6.610 PV     0.0279    2.49803 2.988e-6 2-FB(frac2)
   5   6.795 VB     0.0439  647.35742  0.00077 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.095        0.0000    0.00000  0.00000 hexadecane
   8   9.080        0.0000    0.00000  0.00000 octadecane
   9   9.494 PV     0.0346   13.21356 1.581e-5 nonadecane
  10   9.572 VB     0.0330  817.57715  0.00098 OTP
  11  10.053 VB     0.0386  698.32251  0.00084 eicosane
  12  10.956 VB     0.0430    5.09946 6.100e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.381	VV	0.0336	2085.44995	0.00249	COD
14	11.658	VP	0.0440	19.34738	2.315e-5	tetracosane
15	12.609	VB	0.0337	2.62091	3.135e-6	hexacosane
16	13.269	VB	0.0418	651.99176	0.00078	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5104.76443 6.107e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.521	PP	0.0183	3.00662	3.597e-6	?
2	0.557	VV	0.0233	168.58072	0.00020	?
3	1.774	VV S	0.7214	8.23359e7	98.49759	?
4	1.871	VV S	0.0194	9.32803e5	1.11590	?
5	1.931	VV S	0.0273	2.02077e4	0.02417	?
6	1.975	VV S	0.0453	3.11351e4	0.03725	?
7	2.031	VV S	0.0304	2.04519e4	0.02447	?
8	2.071	VV S	0.0293	2.00617e4	0.02400	?
9	2.110	VV S	0.0266	1.92490e4	0.02303	?
10	2.158	VV S	0.0340	2.16496e4	0.02590	?
11	2.194	VV S	0.0333	1.98154e4	0.02371	?
12	2.239	VV S	0.0349	1.92791e4	0.02306	?
13	2.301	VV S	0.0379	1.79138e4	0.02143	?
14	2.349	VV S	0.0349	2.07587e4	0.02483	?
15	2.398	VV S	0.0319	1.79982e4	0.02153	?
16	2.445	VV S	0.0333	1.74241e4	0.02084	?
17	2.502	VV S	0.0348	1.67626e4	0.02005	?
18	2.548	VV S	0.0359	1.67087e4	0.01999	?
19	2.608	VV S	0.0372	1.60634e4	0.01922	?
20	2.647	VV S	0.0341	1.01673e4	0.01216	?
21	2.703	VV S	0.0507	9424.95215	0.01127	?
22	2.775	VBAS	0.0261	2666.89673	0.00319	?
23	6.728	VV	0.0345	12.45216	1.490e-5	?
24	9.973	PV	0.0287	8.97988	1.074e-5	?
25	11.292	VV	0.0377	33.52827	4.011e-5	?
26	13.184	PV	0.0374	9.75219	1.167e-5	?
27	15.357	BB	0.0470	9.95781	1.191e-5	?

Uncalib. totals : 8.35867e7 99.9939

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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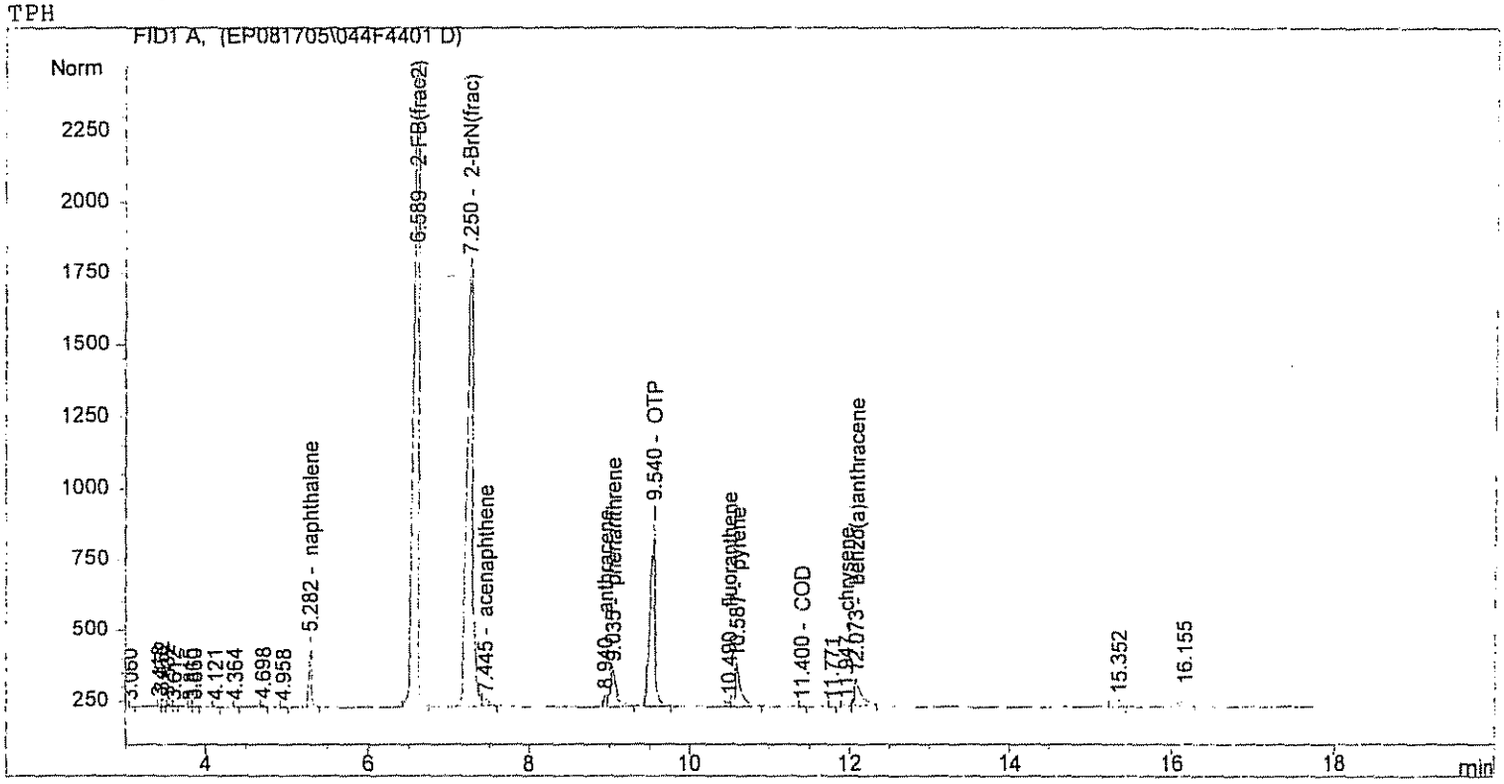
*** End of Report ***

```
==================================================================
Injection Date  : 8/18/2005 4:22:19 AM          Seq. Line :  44
Sample Name     : 151864 xl ms R                 Location : Vial 44
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081705.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 8/12/2005 9:03:24 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:03:08 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.282	PB	0.0308	500.68658	0.00062	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.589	PB	0.0485	1.06869e4	0.01327	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.250	PV	0.0681	8073.10205	0.01002	2-BrN(frac)
6	7.445	VB	0.0657	124.71466	0.00015	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	8.940	BV	0.0340	89.05606	0.00011	anthracene
9	9.035	VB	0.0655	668.69324	0.00083	phenanthrene
10	9.540	BB	0.0520	2850.87036	0.00354	OTP
11	10.490	PV	0.0323	43.78799	5.437e-5	fluoranthene
12	10.587	VB	0.0662	749.86322	0.00093	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.400	BB	0.0317	14.11534	1.753e-5	COD
14	11.947	PV	0.0387	17.11015	2.124e-5	chrysene
15	12.073	VB	0.0705	523.60132	0.00065	benzo(a)anthracene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.525		0.0000	0.00000	0.00000	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.43425e4 3.022e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.556	PV	0.0258	283.16614	0.00035	?
2	1.803	VV S	0.9776	7.94386e7	98.63022	?
3	1.863	VP S	0.0195	9.17024e5	1.13857	?
4	1.899	VV S	0.0501	2.09279e4	0.02598	?
5	1.951	VV S	0.0548	1.81030e4	0.02248	?
6	2.019	VV S	0.0434	1.34908e4	0.01675	?
7	2.100	VV S	0.0596	1.50244e4	0.01865	?
8	2.146	VV S	0.0367	1.04631e4	0.01299	?
9	2.194	VV S	0.0388	9961.07227	0.01237	?
10	2.250	VV S	0.0344	8946.83789	0.01111	?
11	2.309	VV S	0.0420	8964.45703	0.01113	?
12	2.358	VV S	0.0341	8014.42480	0.00995	?
13	2.406	VV S	0.0646	1.09038e4	0.01354	?
14	2.469	VV S	0.0323	6452.07422	0.00801	?
15	2.507	VV S	0.0493	1.00543e4	0.01248	?
16	2.589	VV S	0.0398	7330.29590	0.00910	?
17	2.629	VV S	0.0260	4667.04785	0.00579	?
18	2.671	VV S	0.0546	4963.11084	0.00616	?
19	2.740	VV S	0.0334	2042.70349	0.00254	?
20	2.777	VB S	0.0192	760.18121	0.00094	?
21	2.811	BB X	0.0124	29.95893	3.720e-5	?
22	3.060	BP	0.0263	3.41584	4.241e-6	?
23	3.418	BV	0.0180	15.45000	1.918e-5	?
24	3.452	VB	0.0191	36.92422	4.584e-5	?
25	3.532	BB	0.0235	24.20212	3.005e-5	?
26	3.612	BB	0.0276	3.61537	4.489e-6	?
27	3.815	PV	0.0254	4.33914	5.387e-6	?
28	3.860	VB	0.0325	9.44705	1.173e-5	?
29	4.121	BB	0.0278	5.01813	6.230e-6	?
30	4.364	PB	0.0218	4.95599	6.153e-6	?
31	4.698	BP	0.0292	17.16941	2.132e-5	?
32	4.958	BP	0.0251	5.64303	7.006e-6	?
33	11.771	BB	0.0336	5.85607	7.271e-6	?
34	15.352	BP	0.0502	91.06174	0.00011	?
35	16.155	BB	0.0703	272.72333	0.00034	?

Uncalib. totals : 8.05175e7 99.9698

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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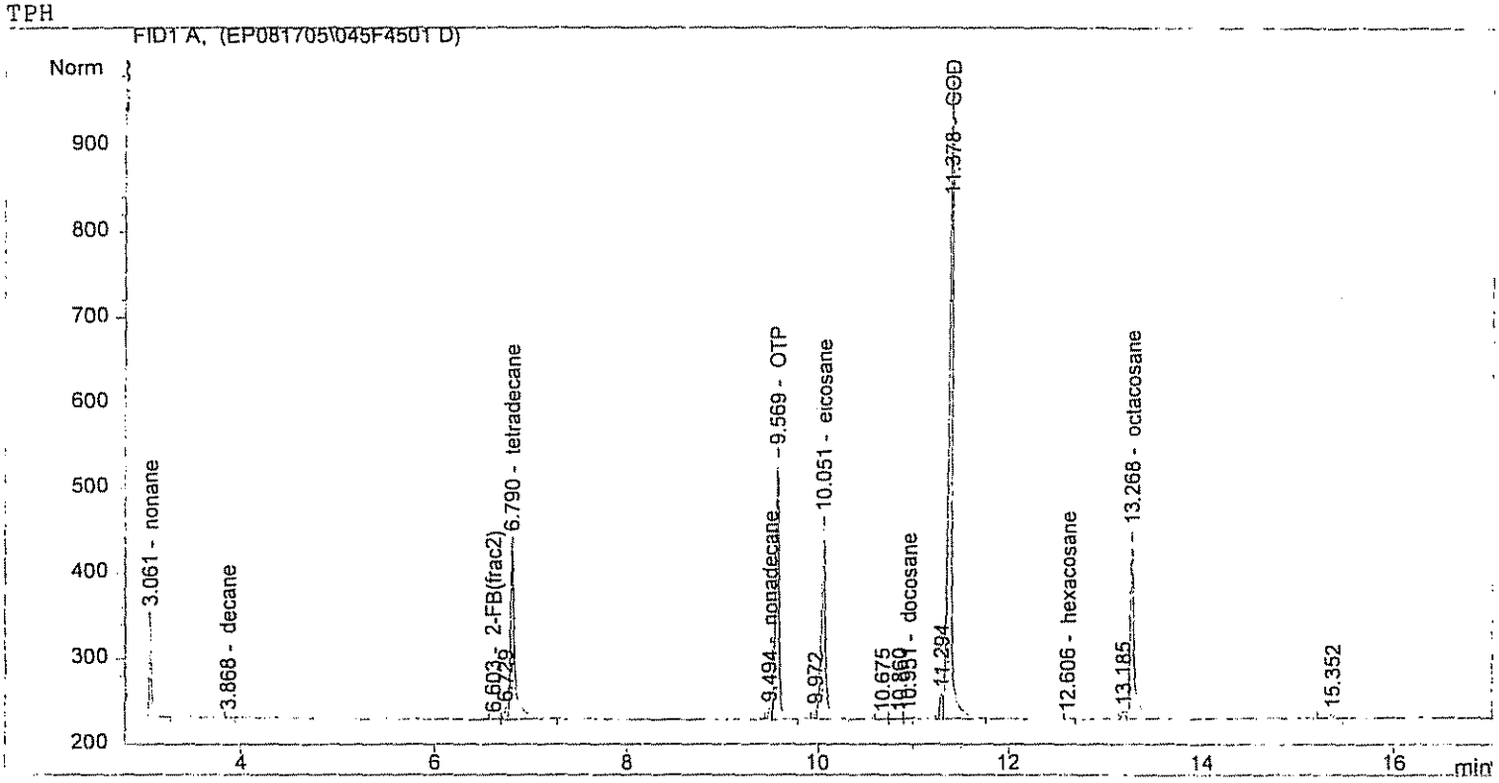
*** End of Report ***

```
==================================================================
Injection Date  : 8/18/2005 4:49:03 AM          Seq. Line :  45
Sample Name     : 151865 x1 msd K                Location : Vial 45
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081705.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 8/12/2005 9:02:25 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      8/12/2005 9:02:21 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|--------------------
   1   3.061 VB     0.0199  155.01749  0.00019 nonane
   2   3.868 VB     0.0327    4.50601 5.446e-6 decane
   3   5.541        0.0000    0.00000  0.00000 dodecane
   4   6.603 VB     0.0358    2.86985 3.469e-6 2-FB(frac2)
   5   6.790 VB     0.0436  652.17169  0.00079 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.095        0.0000    0.00000  0.00000 hexadecane
   8   9.080        0.0000    0.00000  0.00000 octadecane
   9   9.494 VV     0.0282   23.90233 2.889e-5 nonadecane
  10   9.569 VB     0.0357  774.88391  0.00094 OTP
  11  10.051 VB     0.0387  664.30444  0.00080 eicosane
  12  10.951 VV     0.0483    6.94540 8.395e-6 docosane
```

ta File C:\HPCHEM\1\DATA\EP081705\045F4501.D Sample Name: 151865 x1 msd K

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.378	VB	0.0355	1985.47607	0.00240	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.606	PB	0.0323	2.66648	3.223e-6	hexacosane
16	13.268	VB	0.0392	611.18188	0.00074	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 4883.92556 5.903e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.529	PV	0.0216	13.37157	1.616e-5	?
2	0.560	VV	0.0139	5.60672	6.777e-6	?
3	0.586	VV	0.0152	11.45991	1.385e-5	?
4	1.837	VV S	1.0009	8.16248e7	98.65620	?
5	1.864	VV S	0.0184	8.85266e5	1.06998	?
6	1.906	VV S	0.0438	1.89951e4	0.02296	?
7	2.007	VV S	0.0630	2.92031e4	0.03530	?
8	2.054	VV S	0.0517	2.06966e4	0.02501	?
9	2.144	VV S	0.0789	2.78364e4	0.03364	?
10	2.216	VV S	0.0609	2.11017e4	0.02550	?
11	2.273	VV S	0.0355	1.42470e4	0.01722	?
12	2.352	VV S	0.0615	1.83308e4	0.02216	?
13	2.407	VV S	0.0359	1.16410e4	0.01407	?
14	2.447	VV S	0.0397	1.19570e4	0.01445	?
15	2.502	VV S	0.0315	1.07186e4	0.01296	?
16	2.557	VV S	0.0487	1.13993e4	0.01378	?
17	2.612	VV S	0.0367	1.12930e4	0.01365	?
18	2.658	VV S	0.0443	7344.42920	0.00888	?
19	2.715	VV S	0.0330	3792.78882	0.00458	?
20	2.758	VBAS	0.0346	2926.35278	0.00354	?
21	6.729	BV	0.0284	24.23698	2.929e-5	?
22	9.972	VV	0.0260	17.27719	2.088e-5	?
23	10.675	VV	0.0471	4.56797	5.521e-6	?
24	10.860	VV	0.0627	6.30879	7.625e-6	?
25	11.294	VV	0.0335	60.75776	7.344e-5	?
26	13.185	PV	0.0366	21.33424	2.579e-5	?
27	15.352	VB	0.0495	14.25874	1.723e-5	?

Uncalib. totals : 8.27317e7 99.9941

Results obtained with enhanced integrator!
3 Warnings or Errors :

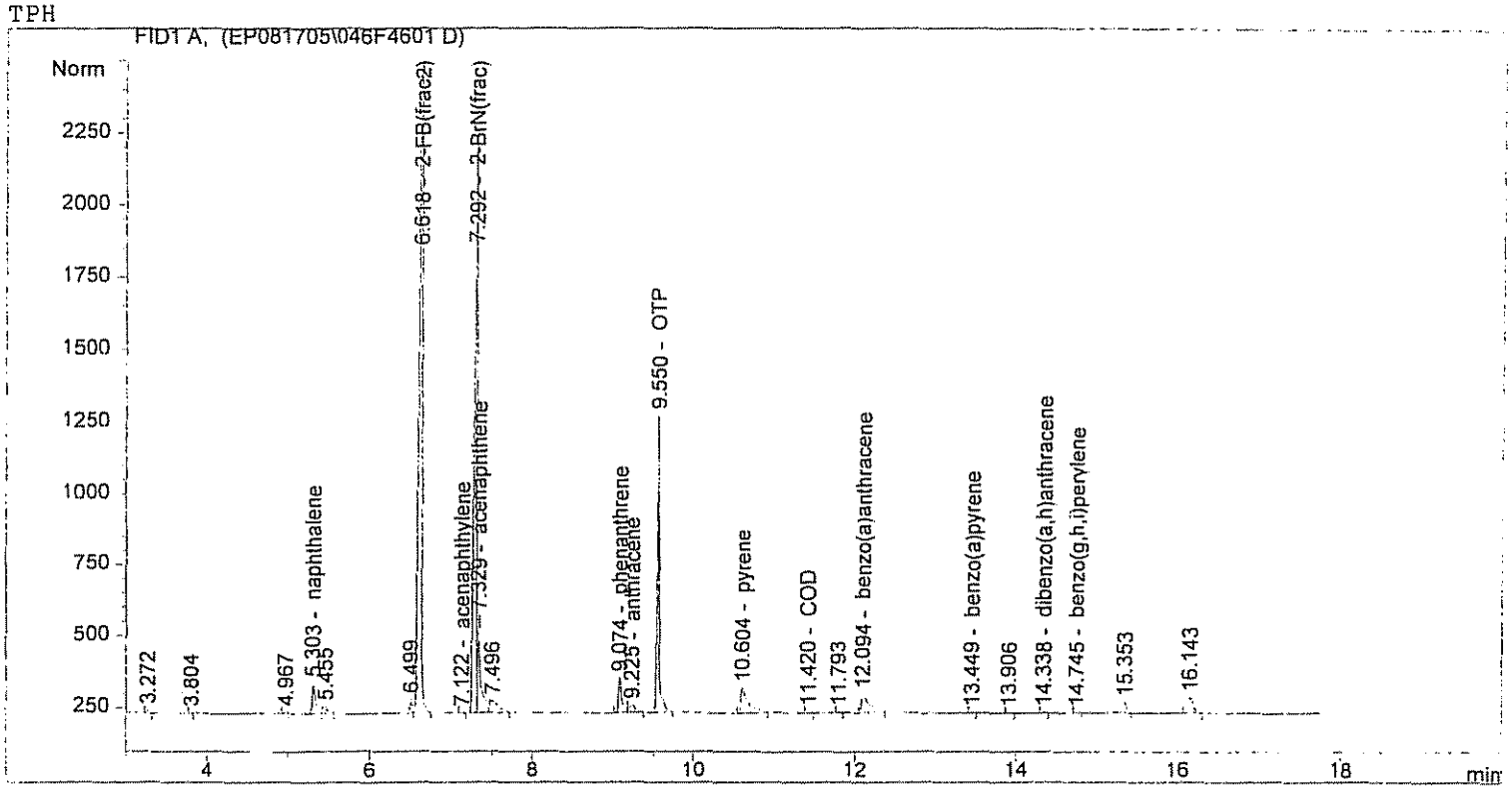
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

Injection Date	: 8/18/2005 5:16:55 AM	Seq. Line	: 46
Sample Name	: 151865 xl msd R	Location	: Vial 46
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\081705.S		
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 8/12/2005 9:03:24 AM by DCS		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	8/12/2005 9:03:08 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.303	PB	0.0361	264.66840	0.00066	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.618	VB	0.0330	6791.48438	0.01681	2-FB(frac2)
4	7.122	PP	0.0314	3.17566	7.861e-6	acenaphthylene
5	7.292	BV	0.0315	4330.88330	0.01072	2-BrN(frac)
6	7.329	VV	0.0330	831.76831	0.00206	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.074	BV	0.0452	360.52362	0.00089	phenanthrene
9	9.225	VB	0.0694	132.19165	0.00033	anthracene
10	9.550	PB	0.0288	1949.11194	0.00482	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.604	PB	0.0880	558.16437	0.00138	pyrene

ta File C:\HPCHEM\1\DATA\EP081705\046F4601.D Sample Name: 151865 x1 msd R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.420	PB	0.0394	12.24378	3.031e-5	COD
14	12.094	PB	0.0819	413.12393	0.00102	benzo(a)anthracene
15	12.178		0.0000	0.00000	0.00000	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.449	BB	0.0344	3.56065	8.814e-6	benzo(a)pyrene
19	14.338	PB	0.0322	3.22202	7.976e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.745	BB	0.0369	3.66687	9.077e-6	benzo(g,h,i)perylene

Totals : 1.56578e4 3.876e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.229	PV S	0.4849	3.52933e7	87.36242	?
2	1.265	VV S	0.0207	8.15652e5	2.01901	?
3	1.342	VV S	0.0280	1.95221e5	0.48324	?
4	1.399	VV S	0.0368	2.52661e5	0.62542	?
5	1.451	VV S	0.0312	2.24473e5	0.55564	?
6	1.498	VV S	0.0226	1.57757e5	0.39050	?
7	1.545	VV S	0.0269	1.73140e5	0.42858	?
8	1.589	VV S	0.0342	1.81073e5	0.44822	?
9	1.640	VV S	0.0387	2.17901e5	0.53938	?
10	1.721	VV S	0.0463	2.38807e5	0.59113	?
11	1.771	VV S	0.0311	1.64587e5	0.40741	?
12	1.828	VV S	0.0437	1.97646e5	0.48924	?
13	1.877	VV S	0.0262	1.61478e5	0.39971	?
14	1.927	VV S	0.0370	1.72316e5	0.42654	?
15	2.010	VV S	0.0561	2.20814e5	0.54659	?
16	2.070	VV S	0.0306	1.65945e5	0.41077	?
17	2.122	VV S	0.0287	1.48873e5	0.36851	?
18	2.175	VV S	0.0352	1.44648e5	0.35805	?
19	2.216	VV S	0.0220	9.09091e4	0.22503	?
20	2.261	VV S	0.0431	1.35514e5	0.33544	?
21	2.308	VV S	0.0283	1.32292e5	0.32747	?
22	2.359	VV S	0.0310	1.36944e5	0.33898	?
23	2.440	VV S	0.0708	2.25681e5	0.55864	?
24	2.503	VV S	0.0292	1.29185e5	0.31977	?
25	2.551	VV S	0.0303	1.08535e5	0.26866	?
26	2.595	VV S	0.0239	9.88140e4	0.24460	?
27	2.635	VV S	0.0282	8.19388e4	0.20283	?
28	2.675	VV S	0.0373	6.16162e4	0.15252	?
29	2.722	VV S	0.0250	2.83668e4	0.07022	?
30	2.760	VB S	0.0295	2.61588e4	0.06475	?
31	3.272	PB	0.0270	14.86672	3.680e-5	?
32	3.804	PP	0.0229	2.94376	7.287e-6	?
33	4.967	BB	0.0323	8.30081	2.055e-5	?
34	5.455	BB	0.0405	68.65936	0.00017	?
35	6.499	PV	0.0306	94.14008	0.00023	?
36	7.496	VB	0.0852	278.92059	0.00069	?
37	11.793	BP	0.0277	2.55292	6.319e-6	?
38	13.906	BB	0.0363	3.74247	9.264e-6	?
39	15.353	BB	0.0420	90.70487	0.00022	?
40	16.143	PB	0.0628	243.67197	0.00060	?

Uncalib. totals : 4.03830e7 99.9612

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

EPH Prep, Standard, Run Logs

PARADIGM ANALYTICAL LABORATORIES, INC.

Prep Report for Batch 3426 (EPH/3520/WATER) on 2005-08-12 by nio

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot
G161-2103-1N (151862)		500			ephsrsvo3w17m	.5	5	co493	co300
G161-2104-1O (151863)		500			ephsrsvo3w17m	.5	5	co493	co300
G161-2104-1P (151864)	ms	250	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co300
G161-2104-1Q (151865)	msd	250	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co300
G161-2109-1G (151866)		500			ephsrsvo3w17m	.5	5	co493	co300
lcs3426	lcs	500	ephqcsvo3n34	.5	ephsrsvo3w17m	.5	5	co493	co300
pb3426	pb	500			ephsrsvo3w17m	.5	5	co493	co300

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep081605

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	8/16/05 11:55					DCS	
002F0201.D	R 20 ccal	8/16/05 12:21					DCS	
003F0101.D	pb3426	8/16/05 15:14					DCS	
004F0201.D	pb3444	8/16/05 15:41					DCS	
005F0101.D	G161-2104-1O x1 K	8/16/05 16:54	cid= 151863	✓			DCS	
006F0201.D	G161-2104-1O x1 R	8/16/05 17:21	cid= 151863				DCS	
007F0301.D	G161-2109-1G x1 K	8/16/05 17:48	cid= 151866				DCS	
008F0401.D	G161-2109-1G x1 R	8/16/05 18:15	cid= 151866				DCS	
009F0501.D	G510-240-4G x1 K	8/16/05 18:42	cid= 150947				DCS	
010F0601.D	G510-240-4G x1 R	8/16/05 19:08	cid= 150947				DCS	
011F0701.D	G510-240-5G x1 K	8/16/05 19:35	cid= 150948	X50			DCS	
012F0801.D	G510-240-5G x1 R	8/16/05 20:02	cid= 150948	X10			DCS	
013F0901.D	G161-2103-1N x1 K	8/16/05 20:29	cid= 151862	✓			DCS	
014F1001.D	G161-2103-1N x1 R	8/16/05 20:56	cid= 151862				DCS	
015F1101.D	G349-113-2G x1 K	8/16/05 21:24	cid= 148119				DCS	
016F1201.D	G349-113-2G x1 R	8/16/05 21:51	cid= 148119				DCS	
017F1301.D	G349-113-5F x1 K	8/16/05 22:19	cid= 148122				DCS	
018F1401.D	G349-113-5F x1 R	8/16/05 22:46	cid= 148122				DCS	
019F1501.D	G349-113-6G x1 K	8/16/05 23:14	cid= 148123				DCS	
020F1601.D	G349-113-6G x1 R	8/16/05 23:41	cid= 148123				DCS	
021F1701.D	G122-2635-1G x1 K	8/17/05 0:09	cid= 152963				DCS	
022F1801.D	G122-2635-1G x1 R	8/17/05 0:36	cid= 152963				DCS	

Page Number:

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7M	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/06	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Internal Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH_2Cl_2		6/29/06	6/29/05	DC
D	ECD03-R6O	8/25/05	EDB Std	17.5ul	50mL	200ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400ul	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DC
F	ECD03-W12Q	↓	Frac	400ul	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7L~~ W7L	↓	EPH Surr	~~2mL~~ 1mL	↓	400ug/mL	↓	↓	↓	↓	↓	↓
H	SV03-R7T	7/21/06	1254 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400ul	10mL	200ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500ul	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50ul	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	~~SV03~~ ECD03-R6U	12/26/06	Herb ICAL Std	50ul	25mL	200ug/mL	400ug/L	Hexane		12/05	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	2000ug/mL	4000ug/L	↓		↓	↓	↓
Q	ECD03-R6U	1/19/06	↓	↓	↓	20000ug/mL	40000ug/L	↓		↓	↓	↓
R	ECD03-R6R	12/29/05	↓	↓	↓	200ug/mL	400ug/L	↓		↓	↓	↓
S	ECD03-R7D	4/21/06	Herb CCAL Std	50ul	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7W	8/9/06	8082/8081 IS	500ul	10mL	200ug/mL	10ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20ul	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	-	—	8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

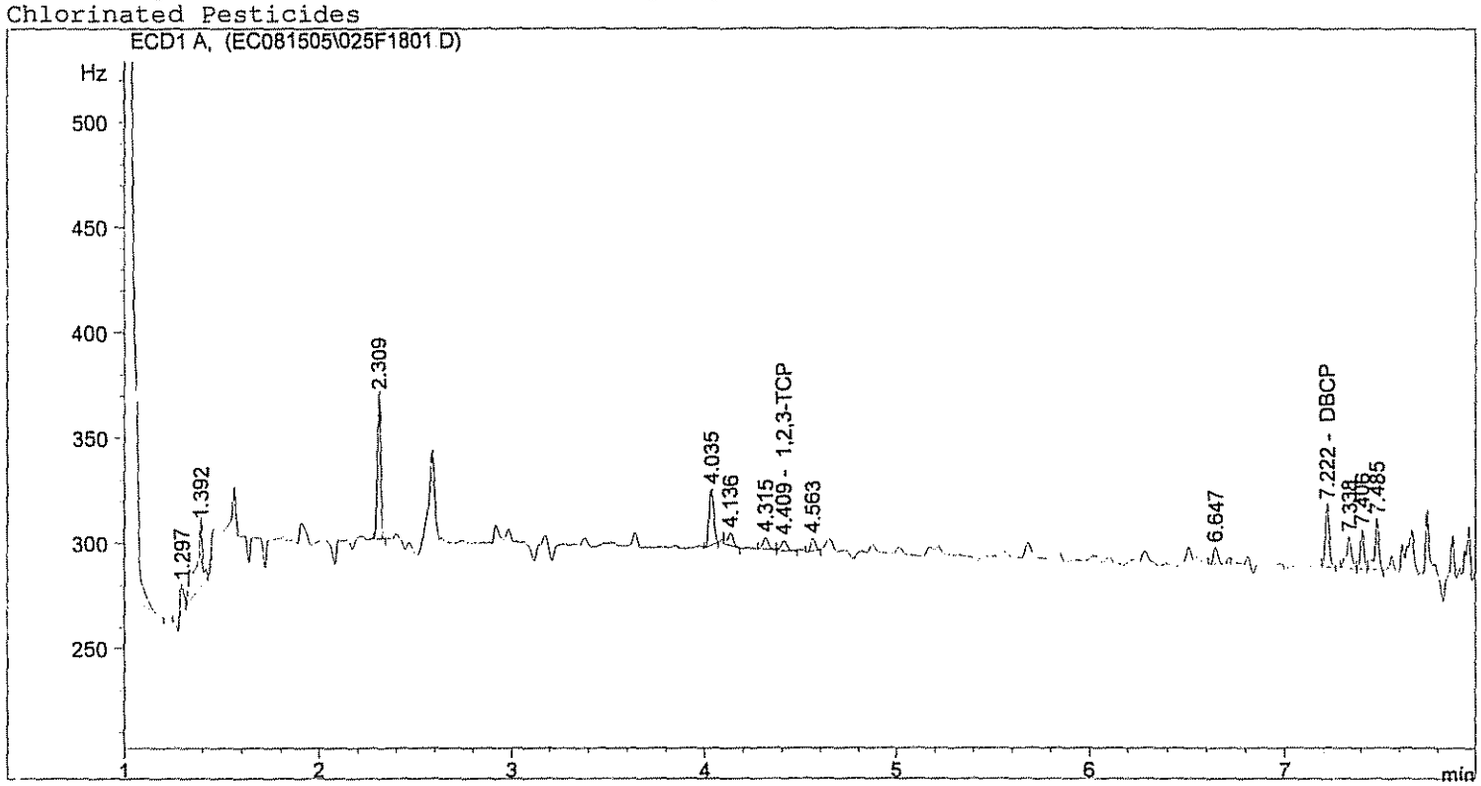
PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

EDB Sample Raw Data

161-2103

```
==================================================================
Injection Date  : 08/15/05 06:07:26 PM          Seq. Line :  18
Sample Name     : G161-2103-10 x1                Location : Vial 25
Acq. Operator   : clp                                 Inj :   1
                                               Inj Volume : 2 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed    : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      08/16/05 12:24:27 PM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.423		-	-	-		EDB
4.409	BB	10.39334	0.00000	0.00000		1,2,3-TCP
7.222	BB	42.43863	0.00000	0.00000		DBCP

Totals : 0.00000

8/16 L.92

```
 Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (1,2,3-TCP)
Warning : Negative results set to zero (cal. curve intercept), (DBCP)

==================================================================
```

EDB Calibration Raw Data

ethod C:\HPCHEM\1\DATA\EC081505\EDB.M

Calibration Table

8081 Pesticides

Calib. Data Modified : 08/16/05 12:24:27 PM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: ECD1 A,

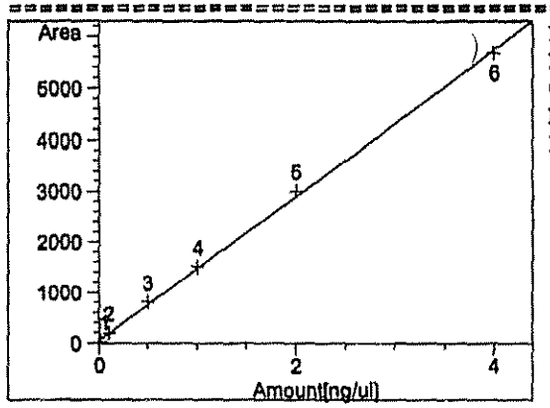
RetTime [min]	Sig	Lvl	Amount [ng/ul]	Area	Amt/Area	Ref	Grp	Name
2.423	1	1	2.00000e-2	26.33943	7.59318e-4			EDB
		2	1.00000e-1	194.84070	5.13240e-4			
		3	5.00000e-1	816.20886	6.12588e-4			
		4	1.00000	1507.78394	6.63225e-4			
		5	2.00000	3007.47900	6.65009e-4			
		6	4.00000	5671.67920	7.05259e-4			
4.363	1	1	2.00000e-2	14.92015	1.34047e-3			1,2,3-TCP
		2	1.00000e-1	35.17085	2.84326e-3			
		3	5.00000e-1	156.34566	3.19804e-3			
		4	1.00000	280.19376	3.56896e-3			
		5	2.00000	551.38123	3.62725e-3			
		6	4.00000	984.56152	4.06272e-3			
7.158	1	1	2.00000e-2	50.56351	3.95542e-4			DBCP
		2	1.00000e-1	185.70927	5.38476e-4			
		3	5.00000e-1	1150.30811	4.34666e-4			
		4	1.00000	2241.45386	4.46139e-4			
		5	2.00000	4380.40381	4.56579e-4			
		6	4.00000	8141.82129	4.91291e-4			

Peak Sum Table

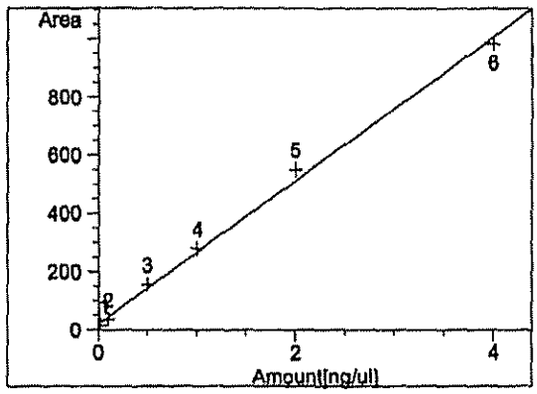
No Entries in table

lethod C:\HPCHEM\1\DATA\EC081505\EDB.M

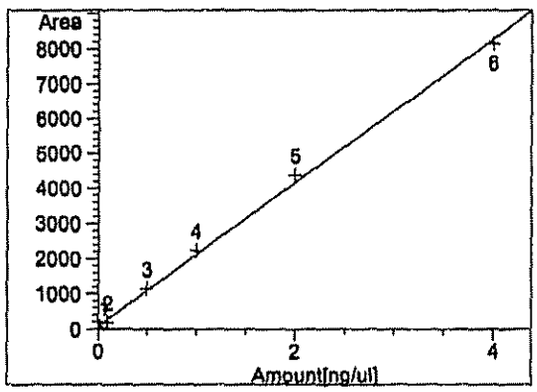
Calibration Curves



EDB at exp. RT: 2.423
ECD1 A,
Correlation: 0.99949
Residual Std. Dev.: 72.92119
Formula: y = mx + b
m: 1420.62459
b: 57.02453
x: Amount [ng/ul]
y: Area



1,2,3-TCP at exp. RT: 4.363
ECD1 A,
Correlation: 0.99819
Residual Std. Dev.: 23.98709
Formula: y = mx + b
m: 246.92289
b: 20.14581
x: Amount [ng/ul]
y: Area

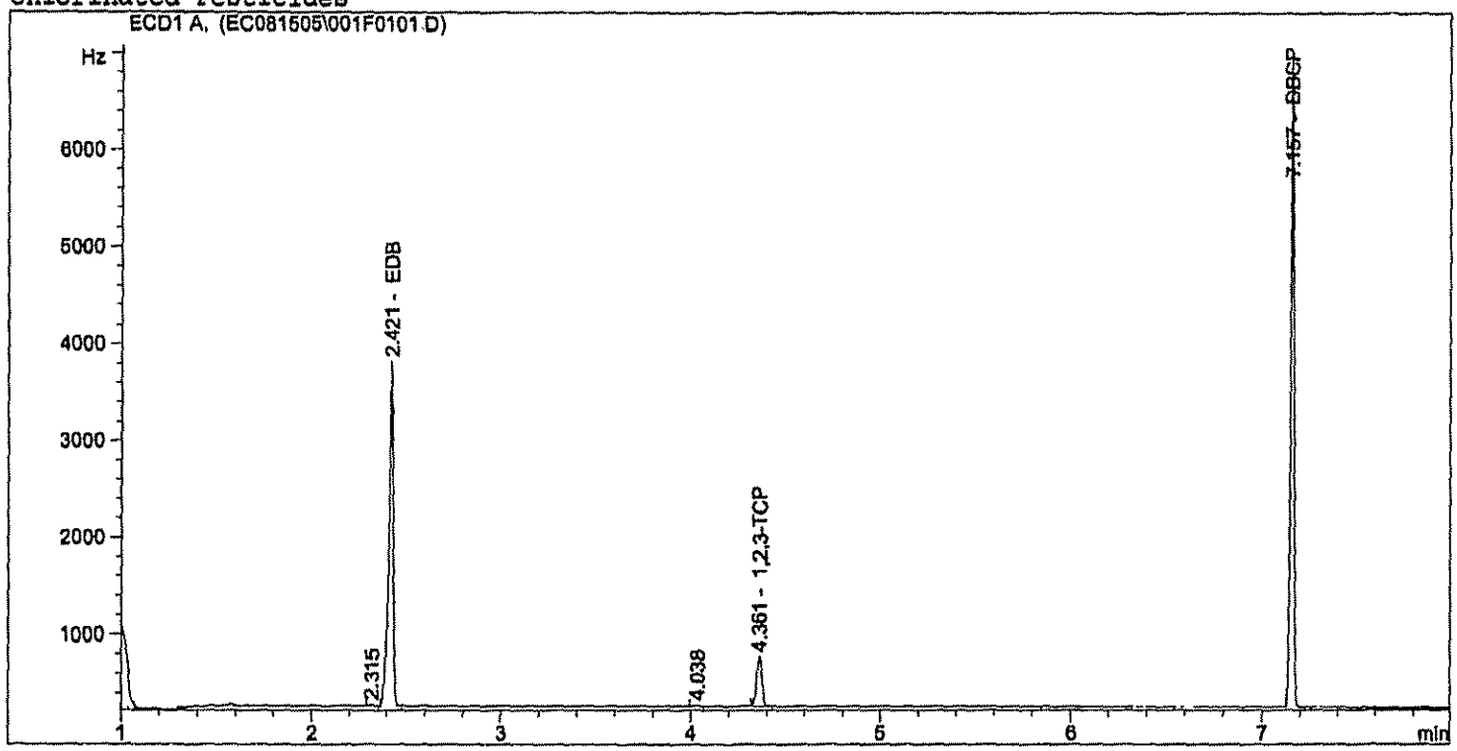


DBCP at exp. RT: 7.158
ECD1 A,
Correlation: 0.99913
Residual Std. Dev.: 137.70500
Formula: y = mx + b
m: 2050.33363
b: 75.24536
x: Amount [ng/ul]
y: Area

ata File C:\HPCHEM\1\DATA\EC081505\001F0101.D Sample Name: EDB 4

Injection Date	: 08/15/05 08:13:02 AM	Seq. Line :	1
Sample Name	: EDB 4	Location :	Vial 1
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:41 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.421	BB	5671.67920	6.96838e-4	3.95224		EDB
4.361	BB	984.51373	3.96698e-3	3.90554		1,2,3-TCP
7.157	BB S	8141.82129	4.83218e-4	3.93427		DBCP

Totals : 11.79206

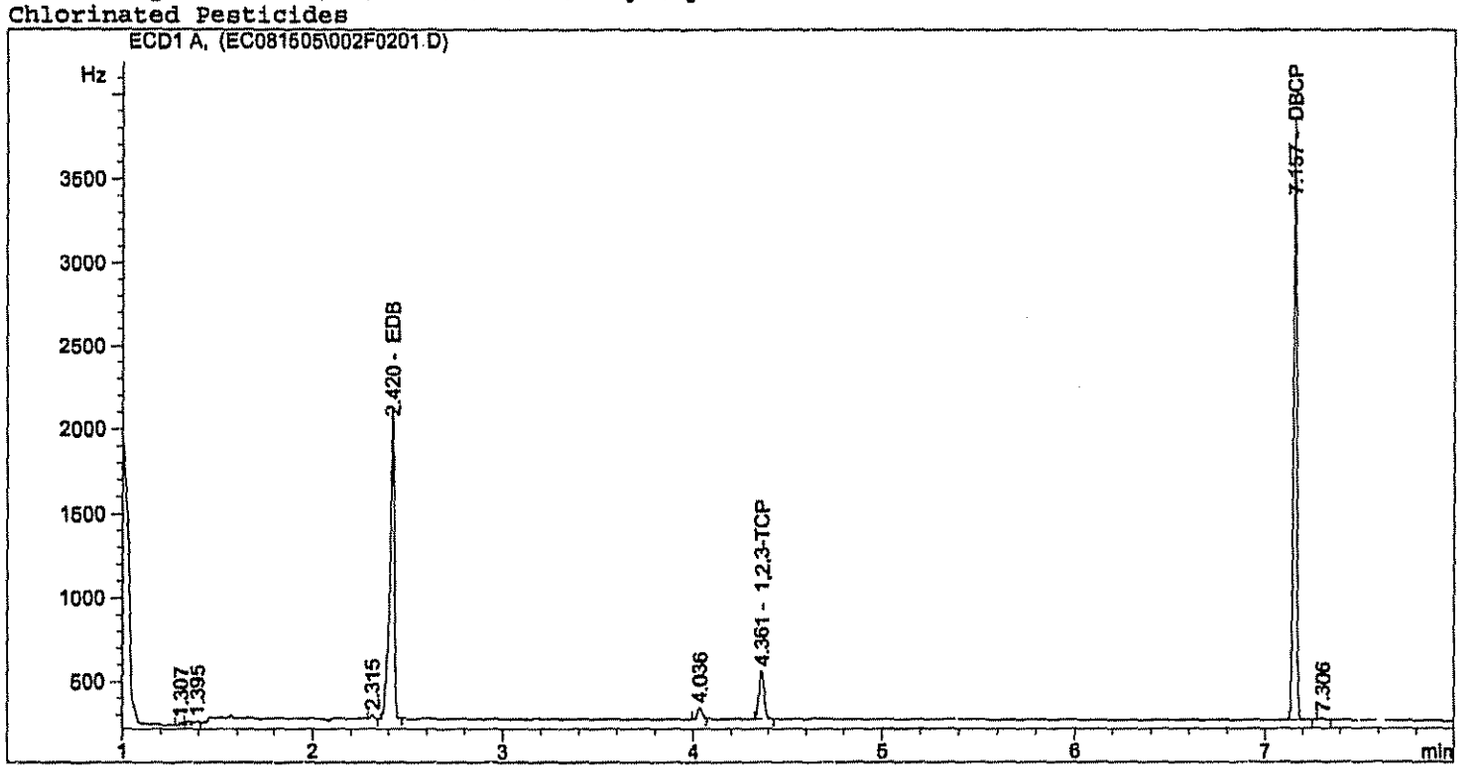
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\002F0201.D Sample Name: EDB 2

Injection Date	: 08/15/05 08:34:26 AM	Seq. Line :	2
Sample Name	: EDB 2	Location :	Vial 2
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl
Acq. Method	: C:\HPCHEM\1\METHODS\EDB.M		
Last changed	: 05/20/05 09:54:41 AM by clp		
Analysis Method	: C:\HPCHEM\1\DATA\EC081505\EDB.M		
Last changed	: 08/16/05 12:25:24 PM by clp		

Chlorinated Pesticides



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	08/16/05 12:24:27 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.420	BB	3007.47900	6.90569e-4	2.07687		EDB
4.361	BB	551.30249	3.90186e-3	2.15110		1,2,3-TCP
7.157	BB S	4380.40381	4.79347e-4	2.09974		DBCP

Totals : 6.32771

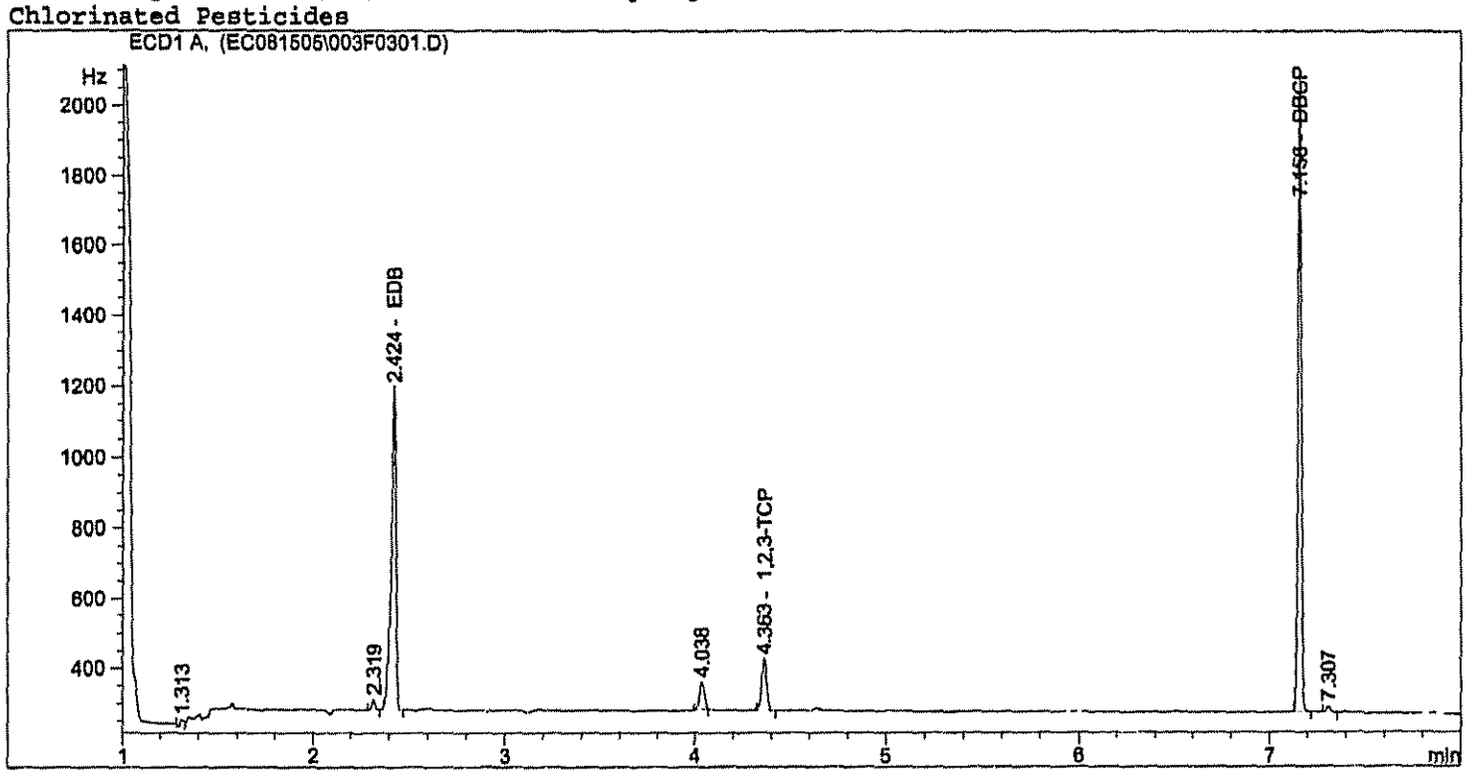
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\003F0301.D Sample Name: EDB 1

Injection Date	: 08/15/05 08:55:41 AM	Seq. Line :	3
Sample Name	: EDB 1	Location :	Vial 3
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl
Acq. Method	: C:\HPCHEM\1\METHODS\EDB.M		
Last changed	: 05/20/05 09:54:39 AM by clp		
Analysis Method	: C:\HPCHEM\1\DATA\EC081505\EDB.M		
Last changed	: 08/16/05 12:25:24 PM by clp		

Chlorinated Pesticides



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	08/16/05 12:24:27 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.424	BB	1507.78394	6.77294e-4	1.02121		EDB
4.363	BB	280.19376	3.75866e-3	1.05315		1,2,3-TCP
7.158	BB	2241.45386	4.71353e-4	1.05652		DBCP
Totals :				3.13088		

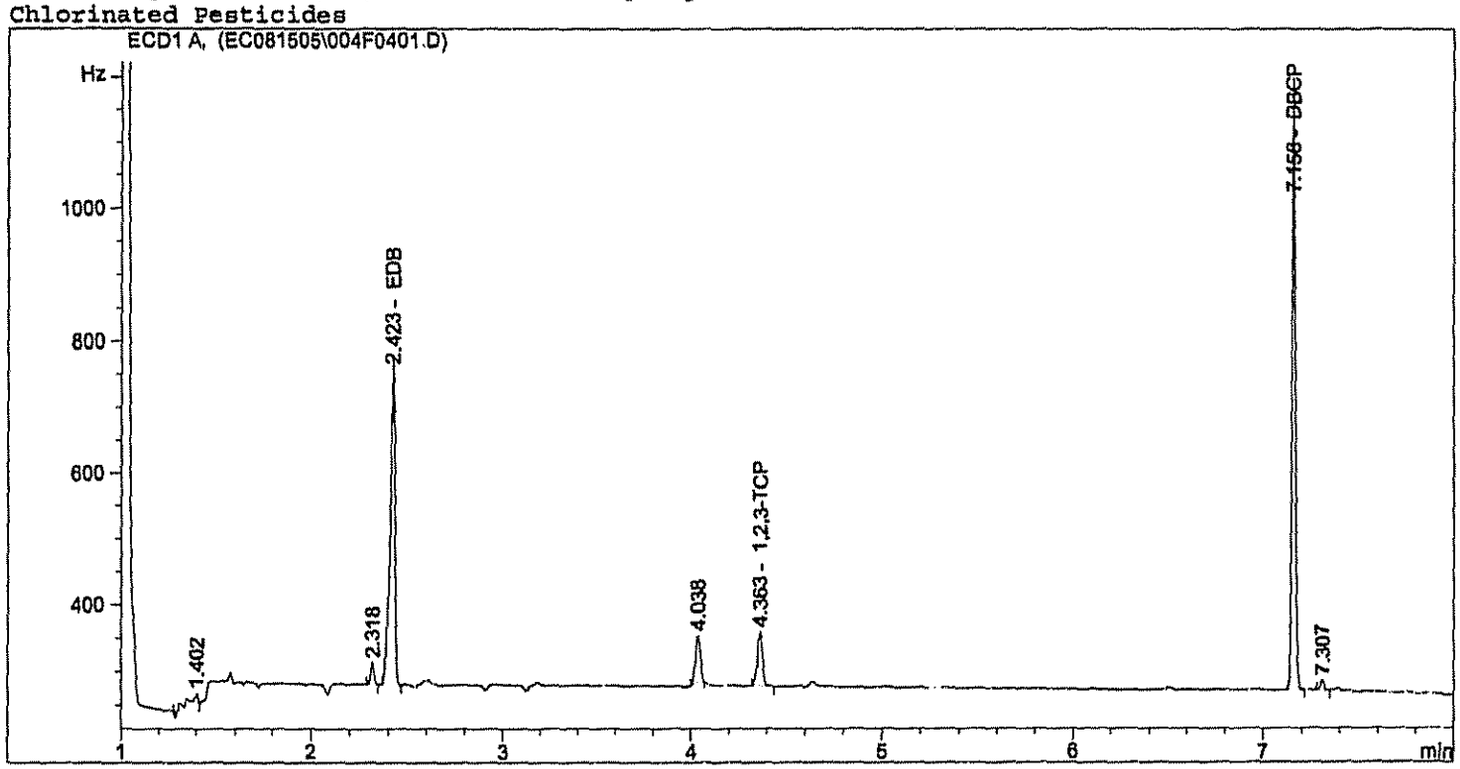
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\004F0401.D Sample Name: EDB 0.5

Injection Date	: 08/15/05 09:16:57 AM	Seq. Line	: 4
Sample Name	: EDB 0.5	Location	: Vial 4
Acq. Operator	: clp	Inj	: 1
		Inj Volume	: 2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.423	BP	816.20886	6.54737e-4	5.34402e-1		EDB
4.363	BP	156.34566	3.52801e-3	5.51589e-1		1,2,3-TCP
7.158	BB	1150.32825	4.55822e-4	5.24345e-1		DBCP

Totals : 1.61034

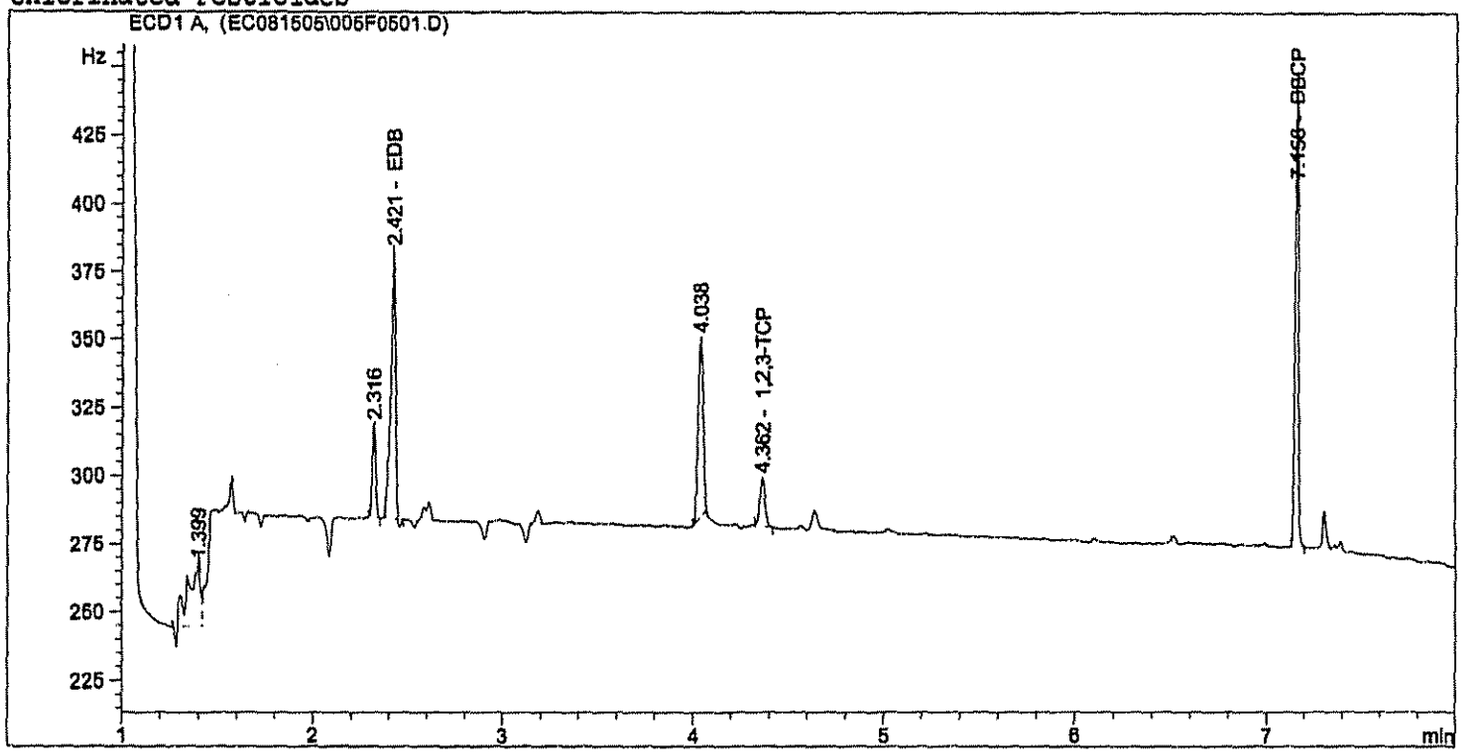
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\005F0501.D Sample Name: EDB 0.1

Injection Date	: 08/15/05 09:38:24 AM	Seq. Line	: 5
Sample Name	: EDB 0.1	Location	: Vial 5
Acq. Operator	: clp	Inj	: 1
		Inj Volume	: 2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.421	BP	164.87489	4.60456e-4	7.59176e-2		EDB
4.362	BB	33.51224	1.61529e-3	5.41320e-2		1,2,3-TCP
7.158	BB	218.21519	3.19547e-4	6.97300e-2		DBCP

Totals : 1.99780e-1

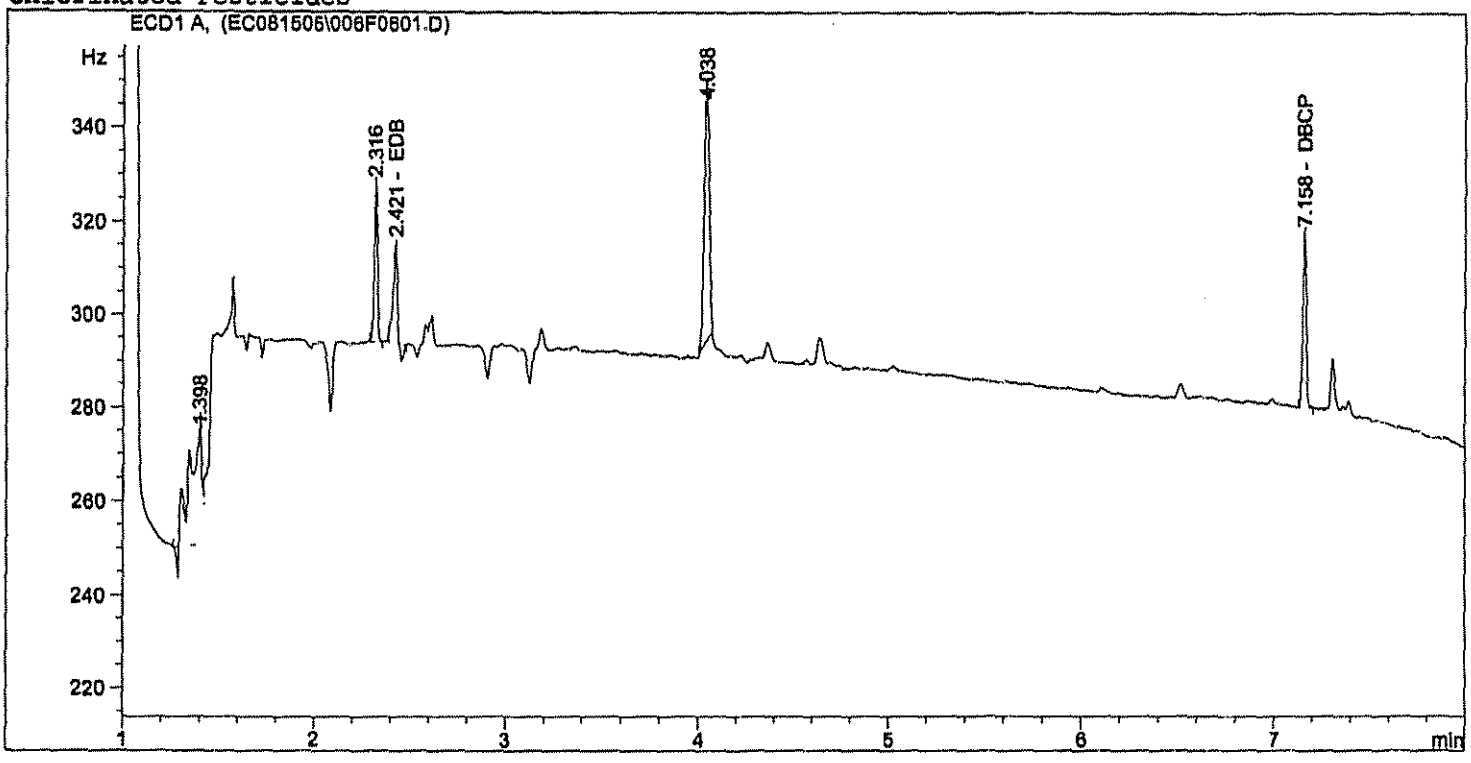
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\006F0601.D Sample Name: EDB 0.02

Injection Date	: 08/15/05 09:59:43 AM	Seq. Line :	6
Sample Name	: EDB 0.02	Location :	Vial 6
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	08/16/05 12:24:27 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.421	BP	31.28482	0.00000	0.00000		EDB
4.363		-	-	-		1,2,3-TCP
7.158	BB	48.07485	0.00000	0.00000		DBCP

Totals : 0.00000

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (EDB)
Warning : Negative results set to zero (cal. curve intercept), (DBCP)

*** End of Report ***

ECD2 11/14/05 10:14:56 AM clp

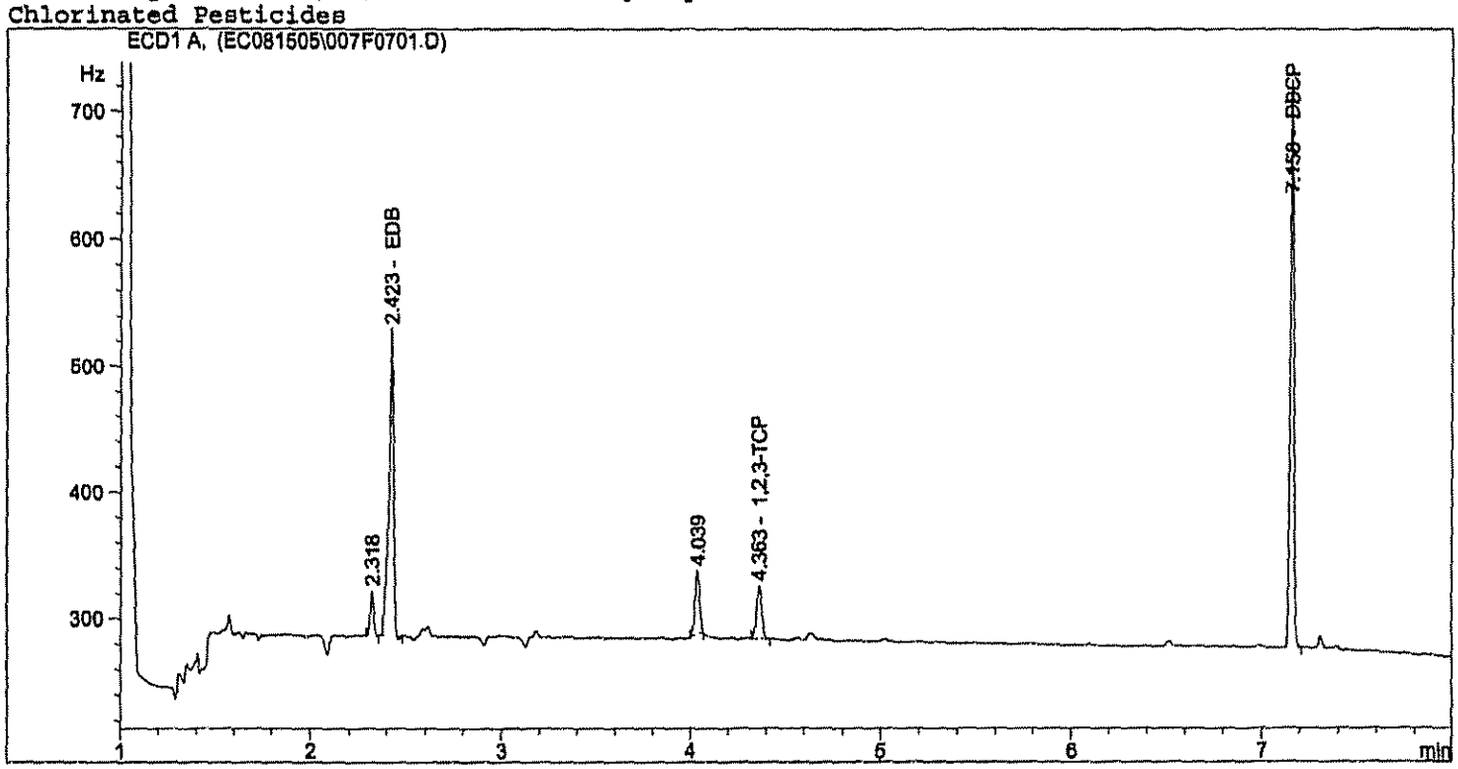
EDB CVS Raw Data

ata File C:\HPCHEM\1\DATA\EC081505\007F0701.D Sample Name: QC 0.25

==========

Injection Date : 08/15/05 10:20:59 AM Seq. Line : 7
Sample Name : QC 0.25 Location : Vial 7
Acq. Operator : clp Inj : 1
Inj Volume : 2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.423	BP	400.84158	6.03775e-4	2.42018e-1		EDB
4.363	BB	79.66702	3.02574e-3	2.41052e-1		1,2,3-TCP
7.158	BB	565.41656	4.22819e-4	2.39069e-1		DBCP

Totals : 7.22139e-1

Results obtained with enhanced integrator!

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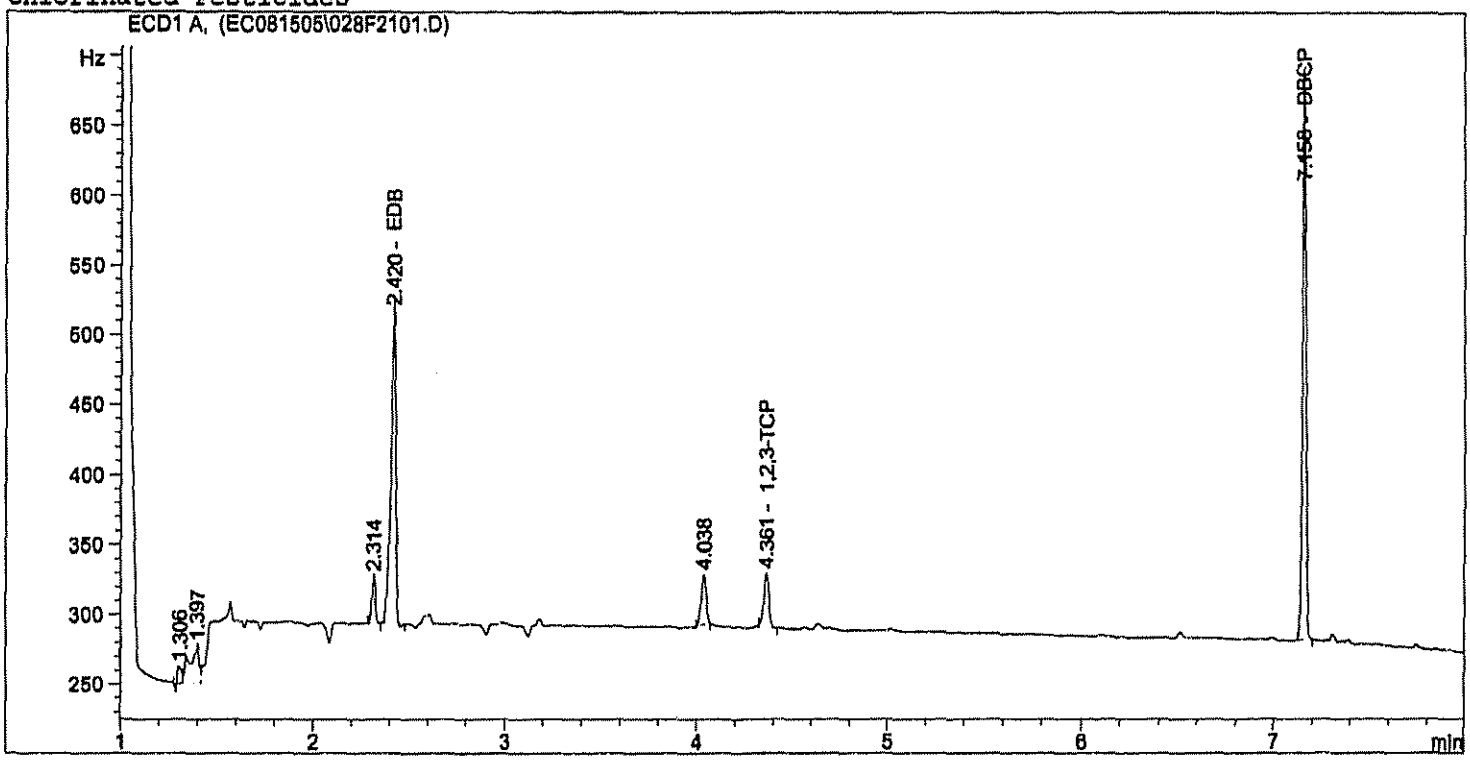
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\028F2101.D Sample Name: QC-0.25

Injection Date	: 08/15/05 07:11:08 PM	Seq. Line	: 21
Sample Name	: QC-0.25	Location	: Vial 28
Acq. Operator	: clp	Inj	: 1
		Inj Volume	: 2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.420	BB	383.63126	5.99283e-4	2.29904e-1		EDB
4.361	BB	75.46620	2.96873e-3	2.24039e-1		1,2,3-TCP
7.158	BB	516.45215	4.16666e-4	2.15188e-1		DBCP

Totals : 6.69131e-1

Results obtained with enhanced integrator!

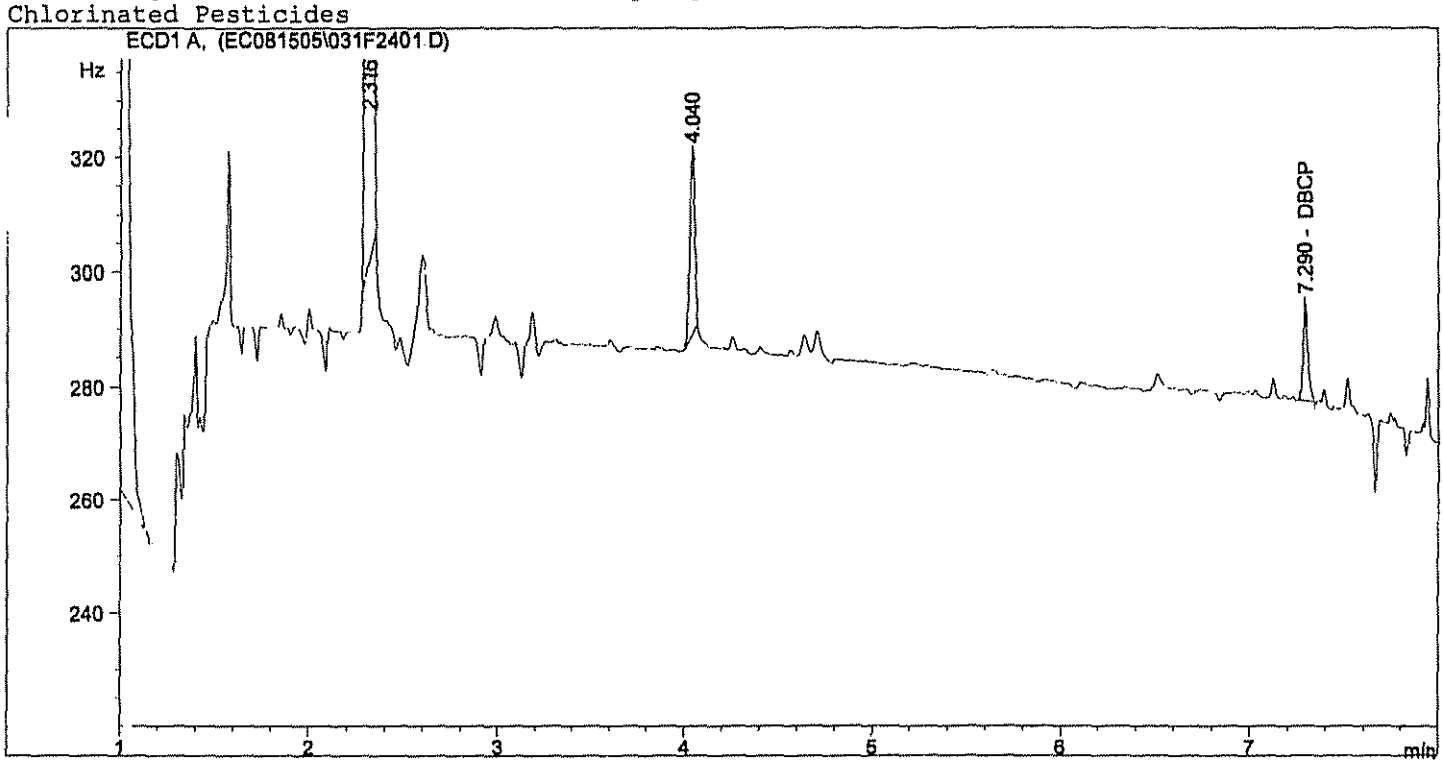
*** End of Report ***

EDB QC, Blanks Raw Data

Data File C:\HPCHEM\1\DATA\EC081505\031F2401.D Sample Name: PB3441

Injection Date	: 08/15/05 08:15:25 PM	Seq. Line :	24
Sample Name	: PB3441	Location :	Vial 31
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.423		-	-	-		EDB
4.363		-	-	-		1,2,3-TCP
7.290	BP	29.98586	0.00000	0.00000		DBCP

Totals : 0.00000

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibrated compound(s) not found
Warning : Negative results set to zero (cal. curve intercept), (DBCP)

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\033F2601.D Sample Name: 152633 x1 MS
ECD2 08/16/05 12:26:36 PM clp

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Injection Date : 08/15/05 08:58:28 PM Seq. Line : 26
Sample Name : G311-139-1K x1 MS Location : Vial 33
Acq. Operator : clp Inj : 1
Inj Volume : 2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.420	BB	1214.87793	6.70875e-4	8.15031e-1		EDB
4.363	BB	263.79623	3.74057e-3	9.86747e-1		1,2,3-TCP
7.160	BB	1802.86145	4.67369e-4	8.42602e-1		DBCP
Totals :				2.64438		

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*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\034F2701.D Sample Name: 152634 x1 MSD
ECD2 08/16/05 12:26:38 PM clp

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Injection Date : 08/15/05 09:19:54 PM Seq. Line : 27
Sample Name : G311-139-1L x1 MSD Location : Vial 34
Acq. Operator : clp Inj : 1
Inj Volume : 2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.422	BP	1283.33716	6.72638e-4	8.63221e-1		EDB
4.364	BB	271.57376	3.74942e-3	1.01824		1,2,3-TCP
7.159	BB	2154.76416	4.70694e-4	1.01423		DBCP
Totals :				2.89570		

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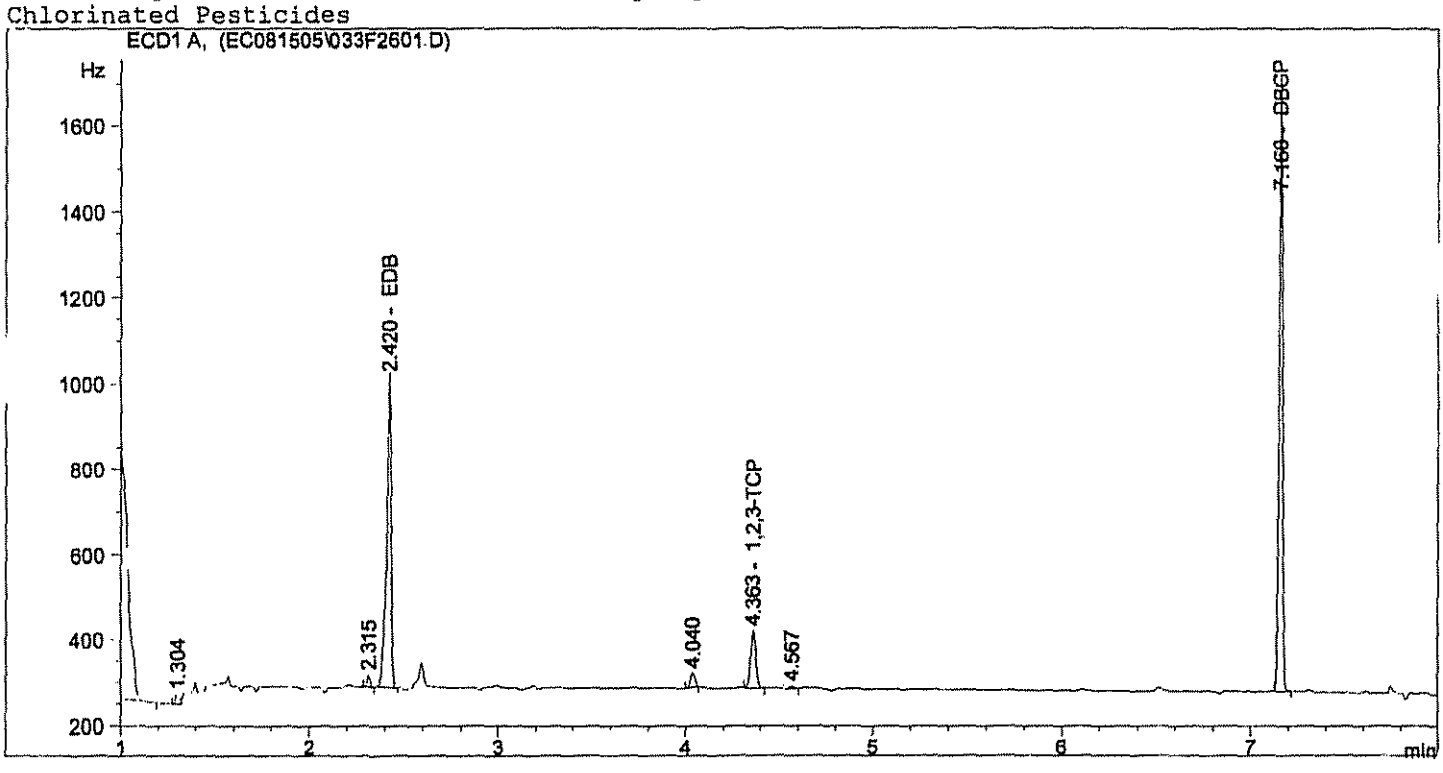
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\033F2601.D Sample Name: 152633 x1 MS

Injection Date	: 08/15/05 08:58:28 PM	Seq. Line :	26
Sample Name	: 152633 x1 MS	Location :	Vial 33
Acq. Operator	: clp	Inj :	1
		Inj Volume :	2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides



External Standard Report

Sorted By : Signal
Calib. Data Modified : 08/16/05 12:24:27 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.420	BB	1214.87793	6.70875e-4	8.15031e-1		EDB
4.363	BB	263.79623	3.74057e-3	9.86747e-1		1,2,3-TCP
7.160	BB	1802.86145	4.67369e-4	8.42602e-1		DBCP

Totals : 2.64438

Results obtained with enhanced integrator!

*** End of Report ***

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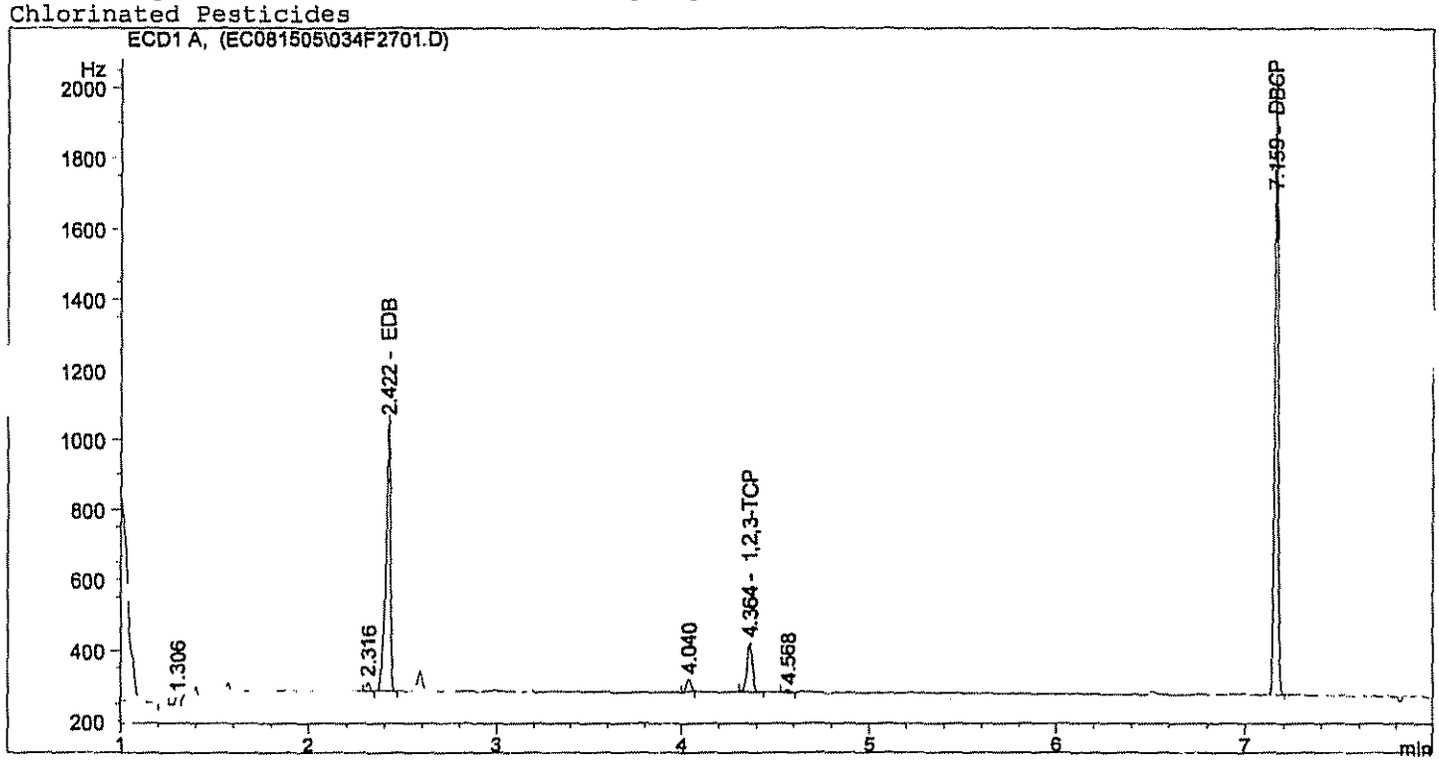
==================================================================
Injection Date  : 08/15/05 09:19:54 PM          Seq. Line :  27
Sample Name     : 152634 x1 MSD                  Location : Vial 34
Acq. Operator   : clp                                Inj :   1
                                               Inj Volume : 2 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\081505.S
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 05/20/05 09:54:39 AM by clp
Analysis Method : C:\HPCHEM\1\DATA\EC081505\EDB.M
Last changed    : 08/16/05 12:25:24 PM by clp
Chlorinated Pesticides
```

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==================================================================
                      External Standard Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      08/16/05 12:24:27 PM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area [Hz*s]	Amt/Area	Amount [ng/ul]	Grp	Name
2.422	BP	1283.33716	6.72638e-4	8.63221e-1		EDB
4.364	BB	271.57376	3.74942e-3	1.01824		1,2,3-TCP
7.159	BB	2154.76416	4.70694e-4	1.01423		DBCP

Totals : 2.89570

Results obtained with enhanced integrator!

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*** End of Report ***

EDB Prep, Standard, Run Logs

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ec081505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	EDB 4	8/15/05 8:13					clp	
002F0201.D	EDB 2	8/15/05 8:34					clp	
003F0301.D	EDB 1	8/15/05 8:55					clp	
004F0401.D	EDB 0.5	8/15/05 9:16					clp	
005F0501.D	EDB 0.1	8/15/05 9:38					clp	
006F0601.D	EDB 0.02	8/15/05 9:59					clp	
007F0701.D	QC 0.25	8/15/05 10:20					clp	
008F0101.D	G537-163-1J x1	8/15/05 12:08					clp	
009F0201.D	G537-163-2J x1	8/15/05 12:29					clp	
010F0301.D	G537-163-3J x1	8/15/05 12:50					clp	
011F0401.D	G537-163-4J x1	8/15/05 13:11					clp	
012F0501.D	G537-163-5J x1	8/15/05 13:33					clp	
013F0601.D	G537-163-6J x1	8/15/05 13:54					clp	
014F0701.D	G537-163-7J x1	8/15/05 14:15					clp	
015F0801.D	G537-163-8J x1	8/15/05 14:36					clp	
016F0901.D	G537-163-9J x1	8/15/05 14:58					clp	
017F1001.D	G537-163-10J x1	8/15/05 15:19					clp	
018F1101.D	G537-165-1H x1	8/15/05 15:40					clp	
019F1201.D	G537-165-2H x1	8/15/05 16:01					clp	
020F1301.D	G537-165-3H x1	8/15/05 16:22					clp	
021F1401.D	G537-165-4H x1	8/15/05 16:43					clp	
022F1501.D	G537-165-5H x1	8/15/05 17:04					clp	
023F1601.D	G537-165-6J x1	8/15/05 17:25					clp	
024F1701.D	G537-165-7I x1	8/15/05 17:46					clp	

Analyst: Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ec081505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
025F1801.D	G161-2103-1O x1	8/15/05 18:07					clp	
026F1901.D	G161-2104-1R x1	8/15/05 18:28					clp	
027F2001.D	G311-138-1F x1	8/15/05 18:49					clp	
028F2101.D	QC-0.25	8/15/05 19:11					clp	
029F2201.D	G311-138-2F x1	8/15/05 19:32					clp	
030F2301.D	G311-139-1J x1	8/15/05 19:54					clp	
031F2401.D	PB3441	8/15/05 20:15					clp	
032F2501.D	PB3442	8/15/05 20:36					clp	
033F2601.D	G311-139-1K x1 MS	8/15/05 20:58	cid= 152633				clp	
034F2701.D	G311-139-1L x1 MSD	8/15/05 21:19	cid= 152634				clp	
035F2801.D	LCS3441	8/15/05 21:41					clp	
036F2901.D	G537-165-6K x1 MS	8/15/05 22:02	cid= 152651				clp	
037F3001.D	G537-165-6L x1 MSD	8/15/05 22:24	cid= 152652				clp	
038F3101.D	LCS3442	8/15/05 22:45					clp	
039F3201.D	QC 0.25	8/15/05 23:06					clp	

Page Number:

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Prep Report for Batch 3441 (8011/EDB/WATER) on 2005-08-15 by clp

Sample ID (GCCODE)	EXT	InitWt	InitVol	QCSpikeID	QCSpikeVol	FinalVol	HexaneLot
G161-2103-1O (152628)		35.57				2	CO300
G161-2104-1R (152629)		36.57				2	CO300
G311-138-1F (152630)		34.82				2	CO300
G311-138-2F (152631)		35.33				2	CO300
G311-139-1J (152632)		35.82				2	CO300
G311-139-1K (152633)	MS	35.48		EDBQC-SV03-W11B	140 uL	2	CO300
G311-139-1L (152634)	MSD	35.48		EDBQC-SV03-W11B	140 uL	2	CO300
G537-163-10J (152644)		36.69				2	CO300
G537-163-1J (152635)		34.92				2	CO300
G537-163-2J (152636)		35.56				2	CO300
G537-163-3J (152637)		35.06				2	CO300
G537-163-4J (152638)		34.07				2	CO300
G537-163-5J (152639)		34.98				2	CO300
G537-163-6J (152640)		36.31				2	CO300
G537-163-7J (152641)		34.64				2	CO300
G537-163-8J (152642)		35.76				2	CO300
G537-163-9J (152643)		34.88				2	CO300
G537-165-1H (152645)		35.92				2	CO300
G537-165-2H (152646)		34.75				2	CO300
G537-165-3H (152647)		34.02				2	CO300
G537-165-4H (152648)		35.21				2	CO300
G537-165-5H (152649)		34.97				2	CO300
LCS3441	LCS	35.30		EDBQC-SV03-W11B	140 uL	2	CO300
PB3441	PB	36.35				2	CO300

N.C. CERTIFICATION #481

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7N	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/05	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Interval Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH_2Cl_2		6/29/06	6/29/05	DC
D	ECD03-R6O	8/25/05	EDB Std	17.5ul	50mL	200ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400ul	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DC
F	ECD03 W12Q	↓	Frac	400ul	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7T~~	↓	EPH Surr	~~2mL~~ 1mL	↓	400ug/mL	↓	↓	↓	↓	↓	↓
H	SV03-R7T	7/21/06	1254 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400ul	10mL	250ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500ul	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50ul	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	ECD03-R6U	12/26/06	Herb ICAL Std	50ul	25mL	200ug/mL	400ug/L	Hexane		12/05	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	2000ug/mL	4000ug/L	↓		↓	↓	↓
Q	ECD03-R6U	1/19/06	↓	↓	↓	20000ug/mL	40000ug/L	↓		↓	↓	↓
R	ECD03-R6R	12/29/05	↓	↓	↓	200ug/mL	400ug/L	↓		↓	↓	↓
S	ECD03-R7D	4/21/06	Herb CCAL Std	50ul	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7W	8/9/06	8082/8081 IS	500ul	10mL	200ug/mL	10ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20ul	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	–	—	8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Metals Sample Raw Data

Sample/Batch Report

RML

User Name: rml 081005b
Computer Name: RML
Sample File: C:\elandata\Sample\081005b.sam
Report Date/Time: Wednesday, August 10, 2005 15:48:55

CURVE → ~~#~~ MS080905-1

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
7		icv - K, Fe							
9		icsA1 ✓							
10		icsB1 ✓							
2		lowstd							
3		ccv1 ✓							
5		cvs1 ✓							
1		ccb1 ✓							
40		pb3380 x25 ✓							
41		lcs3380 x25 ✓							
42		lcd3380 x25 ✓							
43		G311-139-1G x25							
44		G311-139-1H ms x25							
45		G311-139-1I msd x25							
46		G161-2103-1L x25							
47		G161-2104-1L x25							
48		G161-2104-1M dup x25							
3		ccv2 ✓							
1		ccb2 ✓							
9		icsA2 ✓							
10		icsB2 - low soln							
3		ccv3 ✓							
5		cvs3 ✓							
1		ccb3 ✓							

Sc → 215957 – 179964 – 179964

Ge → 97986 – 81655 – 24497

Lu → 112490 – 93742 – 28123

Quantitative Analysis - Summary

Sample ID: Blank

Autosampler Position: 1
Sample Date/Time: Wednesday, August 10, 2005 14:10:00
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Blank.050

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	35818.845					ppb
	Mg	24	9248.726					ppb
	Al	27	30060.379					ppb
	K	39	864711.459					ppb
	Ca	43	1410.985					ppb
>	Sc	45	179964.497					ppb
	Fe	57	17316.209					ppb
>	Ge	72	81655.416					ppb
>	Lu	175	93742.220					ppb
	Pb	208	631.905					ppb

Quantitative Analysis - Summary

Sample ID: Standard 1

Autosampler Position: 2
Sample Date/Time: Wednesday, August 10, 2005 14:13:28
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Standard 1.051

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	33765.107	-0.016				ppb
	Mg	24	2633.603	-0.037				ppb
	Al	27	10201.551	-0.112				ppb
	K	39	875604.412	-0.054				ppb
	Ca	43	878.221	-0.003				ppb
>	Sc	45	184347.920	184347.920				ppb
	Fe	57	16941.835	-0.007				ppb
>	Ge	72	82789.647	82789.647				ppb
>	Lu	175	92648.374	92648.374				ppb
	Pb	208	4084.056	0.037	**0.100**	0.003	2.6	ppb

Quantitative Analysis - Summary

Sample ID: Standard 2

Autosampler Position: 3
Sample Date/Time: Wednesday, August 10, 2005 14:16:56
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Standard 2.052

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	37537.335	0.007				ppb
	Mg	24	2205.257	-0.039				ppb
	Al	27	8366.551	-0.121				ppb
	K	39	886189.756	0.069				ppb
	Ca	43	1503.671	0.000				ppb
>	Sc	45	181860.059	181860.059				ppb
	Fe	57	16271.714	-0.014				ppb
>	Ge	72	82286.962	82286.962				ppb
>	Lu	175	92176.042	92176.042				ppb
	Pb	208	164183.026	1.775	**5.000**	0.058	1.2	ppb

Quantitative Analysis - Summary

Sample ID: Standard 3

Autosampler Position: 4
Sample Date/Time: Wednesday, August 10, 2005 14:20:24
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Standard 3.053

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	102522.265	0.360	**10.000**	0.093	0.9	ppb
	Mg	24	48140.101	0.211	**10.000**	0.149	1.5	ppb
	Al	27	74114.566	0.237	**10.000**	0.145	1.5	ppb
	K	39	1014275.008	0.723	**10.000**	1.301	13.0	ppb
	Ca	43	1350.208	-0.000	**10.000**	3.084	30.8	ppb
>	Sc	45	183522.485	183522.485				ppb
	Fe	57	21107.782	0.044	**10.000**	0.606	6.1	ppb
>	Ge	72	82423.024	82423.024				ppb
>	Lu	175	92717.730	92717.730				ppb
	Pb	208	329522.663	3.547	**9.999**	0.124	1.2	ppb

Quantitative Analysis - Summary

Sample ID: Standard 4

Autosampler Position: 5
Sample Date/Time: Wednesday, August 10, 2005 14:23:52
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Standard 4.054

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Na	23	2505301.137	12.946	**499.922**	3.445	0.7	ppb
Mg	24	1768305.409	9.225	**499.971**	2.673	0.5	ppb
Al	27	2672048.262	13.853	**500.029**	4.360	0.9	ppb
K	39	6549146.553	29.558	**499.956**	12.066	2.4	ppb
Ca	43	14332.983	0.067	**500.272**	5.519	1.1	ppb
Sc	45	190604.923	190604.923				ppb
Fe	57	239406.611	2.566	**500.028**	6.243	1.2	ppb
Ge	72	86182.989	86182.989				ppb
Lu	175	99743.004	99743.004				ppb
Pb	208	481.506	-0.002	**-0.005**	0.002	35.1	ppb

Quantitative Analysis - Summary

Sample ID: Standard 5

Autosampler Position: 6
Sample Date/Time: Wednesday, August 10, 2005 14:27:21
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Standard 5.055

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5039905.703	25.704	**998.509**	19.374	1.9	ppb
	Mg	24	3585548.508	18.378	**999.196**	17.277	1.7	ppb
	Al	27	5415804.457	27.667	**999.724**	18.930	1.9	ppb
	K	39	12739215.300	60.678	**1005.157**	20.192	2.0	ppb
	Ca	43	28584.176	0.139	**1006.376**	0.780	0.1	ppb
>	Sc	45	194570.789	194570.789				ppb
	Fe	57	470314.291	5.027	**995.860**	13.693	1.4	ppb
>	Ge	72	89789.260	89789.260				ppb
>	Lu	175	102817.355	102817.355				ppb
	Pb	208	447.521	-0.002	**-0.007**	0.002	27.2	ppb

Quantitative Analysis - Summary

Sample ID: icv

Autosampler Position: 7
Sample Date/Time: Wednesday, August 10, 2005 14:30:51
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\icv.056

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	25097938.009	129.679	**5037.573**	74.317	1.5	ppb
	Mg	24	17900748.078	92.584	**5033.704**	68.672	1.4	ppb
	Al	27	1321014.253	6.669	**240.987**	3.430	1.4	ppb
	K	39	60545554.364	308.545	**5111.184**	44.249	0.9	ppb
	Ca	43	135596.242	0.694	**5022.208**	47.963	1.0	ppb
>	Sc	45	193192.688	193192.688				ppb
	Fe	57	70226.006	0.582	**115.343**	4.575	4.0	ppb
>	Ge	72	88478.601	88478.601				ppb
>	Lu	175	104289.569	104289.569				ppb
	Pb	208	184752.428	1.765	**4.974**	0.031	0.6	ppb

Quantitative Analysis - Summary

Sample ID: icsA1

Autosampler Position: 9
Sample Date/Time: Wednesday, August 10, 2005 14:34:20
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\icsA1.057

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	25290513.480	131.625	**5113.174**	42.980	0.8	ppb
	Mg	24	17843066.755	92.951	**5053.632**	67.446	1.3	ppb
	Al	27	27027122.444	140.708	**5084.417**	28.127	0.6	ppb
	K	39	60004184.256	307.961	**5101.509**	45.547	0.9	ppb
	Ca	43	137841.898	0.711	**5142.742**	19.477	0.4	ppb
>	Sc	45	191847.115	191847.115				ppb
	Fe	57	2040673.403	22.098	**4377.467**	60.469	1.4	ppb
>	Ge	72	91471.684	91471.684				ppb
>	Lu	175	103371.069	103371.069				ppb
	Pb	208	1078.105	0.004	**0.010**	0.000	2.2	ppb

Quantitative Analysis - Summary

Sample ID: icsB1

Autosampler Position: 10
Sample Date/Time: Wednesday, August 10, 2005 14:37:47
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\icsB1.058

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	24851018.664	130.656	**5075.525**	123.836	2.4	ppb
	Mg	24	17348131.332	91.302	**4963.989**	63.200	1.3	ppb
	Al	27	26426719.005	139.021	**5023.445**	90.874	1.8	ppb
	K	39	58799772.834	304.862	**5050.179**	105.845	2.1	ppb
	Ca	43	137005.019	0.714	**5163.892**	16.302	0.3	ppb
>	Sc	45	189901.741	189901.741				ppb
	Fe	57	2012582.796	22.437	**4444.616**	72.331	1.6	ppb
>	Ge	72	88858.565	88858.565				ppb
>	Lu	175	100327.163	100327.163				ppb
	Pb	208	108275.384	1.072	**3.023**	0.008	0.3	ppb

Quantitative Analysis - Summary

Sample ID: lowstd

Autosampler Position: 2
Sample Date/Time: Wednesday, August 10, 2005 14:41:15
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\lowstd.059

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	34415.098	0.031	**1.185**	1.426	120.4	ppb
	Mg	24	4505.406	-0.020	**-1.094**	0.621	56.8	ppb
	Al	27	11758.183	-0.087	**-3.152**	0.723	22.9	ppb
	K	39	817286.166	0.713	**11.817**	20.175	170.7	ppb
	Ca	43	778.762	-0.003	**-19.410**	4.778	24.6	ppb
>	Sc	45	154691.630	154691.630				ppb
	Fe	57	15717.334	0.022	**4.409**	9.332	211.7	ppb
>	Ge	72	69735.274	69735.274				ppb
>	Lu	175	78988.389	78988.389				ppb
	Pb	208	3333.822	0.035	**0.100**	0.002	2.5	ppb

Quantitative Analysis - Summary

Sample ID: ccv1

Autosampler Position: 3
Sample Date/Time: Wednesday, August 10, 2005 14:44:43
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccv1.060

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	31829.445	0.104	**4.038**	5.228	129.5	ppb
	Mg	24	2507.908	-0.027	**-1.452**	0.680	46.8	ppb
	Al	27	7448.633	-0.096	**-3.456**	1.179	34.1	ppb
	K	39	771542.094	4.078	**67.562**	113.856	168.5	ppb
	Ca	43	1089.289	0.002	**13.804**	22.784	165.1	ppb
>	Sc	45	129588.354	129588.354				ppb
	Fe	57	14019.789	0.148	**29.346**	53.039	180.7	ppb
>	Ge	72	57323.257	57323.257				ppb
>	Lu	175	65443.739	65443.739				ppb
	Pb	208	116247.901	1.768	**4.983**	0.027	0.5	ppb

Quantitative Analysis - Summary

Sample ID: cvs1

Autosampler Position: 5
Sample Date/Time: Wednesday, August 10, 2005 14:48:11
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\cvs1.061

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	2406658.829	13.206	**512.991**	1.275	0.2	ppb
	Mg	24	1699382.747	9.417	**512.010**	7.490	1.5	ppb
	Al	27	2561544.832	14.088	**509.059**	11.194	2.2	ppb
	K	39	6175041.126	29.581	**490.016**	5.012	1.0	ppb
	Ca	43	13610.357	0.068	**491.759**	9.465	1.9	ppb
>	Sc	45	179543.415	179543.415				ppb
	Fe	57	225542.606	2.546	**504.340**	15.268	3.0	ppb
>	Ge	72	81891.974	81891.974				ppb
>	Lu	175	93036.527	93036.527				ppb
	Pb	208	399.234	-0.002	**-0.007**	0.001	17.7	ppb

Quantitative Analysis - Summary

Sample ID: ccb1
Autosampler Position: 1
Sample Date/Time: Wednesday, August 10, 2005 14:51:39
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccb1.062

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	33269.455	0.014	**0.561**	0.898	160.1	ppb
	Mg	24	8463.123	0.003	**0.139**	0.194	140.0	ppb
	Al	27	26447.058	0.001	**0.040**	0.320	802.6	ppb
	K	39	822048.152	0.524	**8.674**	15.153	174.7	ppb
	Ca	43	1325.562	0.001	**4.248**	3.749	88.2	ppb
>	Sc	45	158547.809	158547.809				ppb
	Fe	57	16480.395	0.029	**5.767**	7.482	129.7	ppb
>	Ge	72	70118.792	70118.792				ppb
>	Lu	175	78852.190	78852.190				ppb
	Pb	208	534.346	0.000	**0.000**	0.002	504.9	ppb

Quantitative Analysis - Summary

Sample ID: pb3380 x25

Autosampler Position: 40
Sample Date/Time: Wednesday, August 10, 2005 14:55:08
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\pb3380 x25.063

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	38361.456	0.123	**4.765**	3.652	76.6	ppb
	Mg	24	1402.656	-0.038	**-2.058**	0.418	20.3	ppb
	Al	27	5820.540	-0.107	**-3.864**	1.492	38.6	ppb
	K	39	752368.817	3.235	**53.590**	99.023	184.8	ppb
	Ca	43	579.584	-0.002	**-17.271**	20.530	118.9	ppb
>	Sc	45	135873.691	135873.691				ppb
	Fe	57	13758.149	0.126	**25.026**	48.582	194.1	ppb
>	Ge	72	59286.237	59286.237				ppb
>	Lu	175	68428.848	68428.848				ppb
	Pb	208	792.488	0.006	**0.016**	0.006	34.9	ppb

Quantitative Analysis - Summary

Sample ID: Ics3380 x25

Autosampler Position: 41
Sample Date/Time: Wednesday, August 10, 2005 14:58:37
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\Ics3380 x25.064

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	39759.619	0.083	**3.233**	1.365	42.2	ppb
	Mg	24	1390.183	-0.041	**-2.253**	0.083	3.7	ppb
	Al	27	5881.904	-0.125	**-4.524**	0.204	4.5	ppb
	K	39	778370.686	1.145	**18.963**	36.752	193.8	ppb
	Ca	43	609.084	-0.003	**-24.880**	5.979	24.0	ppb
>	Sc	45	145902.151	145902.151				ppb
	Fe	57	37869.465	0.400	**79.335**	21.148	26.7	ppb
>	Ge	72	65201.042	65201.042				ppb
>	Lu	175	75767.987	75767.987				ppb
	Pb	208	388465.929	5.071	**14.293**	0.491	3.4	ppb

Quantitative Analysis - Summary

Sample ID: lcd3380 x25

Autosampler Position: 42
Sample Date/Time: Wednesday, August 10, 2005 15:02:06
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\lcd3380 x25.065

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	33869.860	0.166	**6.448**	7.861	121.9	ppb
	Mg	24	1265.071	-0.038	**-2.087**	0.341	16.4	ppb
	Al	27	5090.906	-0.113	**-4.082**	1.042	25.5	ppb
	K	39	738178.844	6.276	**103.968**	182.185	175.2	ppb
	Ca	43	555.147	-0.001	**-7.907**	35.668	451.1	ppb
>	Sc	45	125911.627	125911.627				ppb
	Fe	57	34275.988	0.605	**119.767**	86.771	72.5	ppb
>	Ge	72	56655.747	56655.747				ppb
>	Lu	175	66697.570	66697.570				ppb
	Pb	208	342380.714	5.020	**14.149**	0.641	4.5	ppb

Quantitative Analysis - Summary

Sample ID: G311-139-1G x25

Autosampler Position: 43
Sample Date/Time: Wednesday, August 10, 2005 15:05:35
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G311-139-1G x25.066

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	8405405.836	59.987	**2330.279**	272.728	11.7	ppb
	Mg	24	2151.567	-0.033	**-1.806**	0.215	11.9	ppb
	Al	27	6251.007	-0.111	**-3.993**	0.694	17.4	ppb
	K	39	932282.537	7.612	**126.089**	184.541	146.4	ppb
	Ca	43	748.212	0.000	**1.737**	36.393	2095.8	ppb
>	Sc	45	132239.843	132239.843				ppb
	Fe	57	13644.146	0.249	**49.247**	93.742	190.4	ppb
>	Ge	72	59839.472	59839.472				ppb
>	Lu	175	71010.898	71010.898				ppb
	Pb	208	925.117	0.011	**0.030**	0.026	84.6	ppb

Quantitative Analysis - Summary

Sample ID: G311-139-1H ms x25

Autosampler Position: 44
Sample Date/Time: Wednesday, August 10, 2005 15:09:05
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G311-139-1H ms x25.067

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	11641166.898	62.224	**2417.170**	32.844	1.4	ppb
|	Mg	24	2086.949	-0.040	**-2.185**	0.014	0.6	ppb
|	Al	27	6154.119	-0.134	**-4.842**	0.062	1.3	ppb
|	K	39	1067953.604	0.926	**15.332**	2.768	18.1	ppb
|	Ca	43	764.619	-0.004	**-27.028**	2.159	8.0	ppb
⌊>	Sc	45	186455.299	186455.299				ppb
⌈	Fe	57	45844.930	0.325	**64.325**	2.445	3.8	ppb
⌊>	Ge	72	85444.929	85444.929				ppb
⌈>	Lu	175	102577.592	102577.592				ppb
⌊	Pb	208	521313.240	5.075	**14.304**	0.084	0.6	ppb

Quantitative Analysis - Summary

Sample ID: G311-139-1I msd x25

Autosampler Position: 45
Sample Date/Time: Wednesday, August 10, 2005 15:12:35
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G311-139-1I msd x25.068

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	9717897.148	61.529	**2390.186**	40.008	1.7	ppb
	Mg	24	1786.752	-0.040	**-2.159**	0.066	3.1	ppb
	Al	27	6089.455	-0.127	**-4.584**	0.200	4.4	ppb
	K	39	987303.922	1.918	**31.778**	29.181	91.8	ppb
	Ca	43	718.132	-0.003	**-22.943**	2.781	12.1	ppb
>	Sc	45	156816.859	156816.859				ppb
	Fe	57	41357.412	0.383	**75.807**	14.919	19.7	ppb
>	Ge	72	71795.211	71795.211				ppb
>	Lu	175	87434.337	87434.337				ppb
	Pb	208	462893.788	5.286	**14.899**	0.055	0.4	ppb

Quantitative Analysis - Summary

Sample ID: G161-2103-1L x25

Autosampler Position: 46
Sample Date/Time: Wednesday, August 10, 2005 15:16:06
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G161-2103-1L x25 069

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	4357485.821	27.982	**1087.010**	16.929	1.6	ppb
	Mg	24	1159522.151	7.491	**407.287**	4.520	1.1	ppb
	Al	27	10073.554	-0.100	**-3.605**	0.255	7.1	ppb
	K	39	2819808.379	13.941	**230.938**	27.257	11.8	ppb
	Ca	43	25692.659	0.158	**1144.583**	23.698	2.1	ppb
>	Sc	45	154039.052	154039.052				ppb
	Fe	57	16064.461	0.040	**7.857**	15.123	192.5	ppb
>	Ge	72	69749.708	69749.708				ppb
>	Lu	175	84667.387	84667.387				ppb
	Pb	208	1097.864	0.007	**0.020**	0.007	35.1	ppb

Quantitative Analysis - Summary

Sample ID: G161-2104-1L x25

Autosampler Position: 47
Sample Date/Time: Wednesday, August 10, 2005 15:19:37
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G161-2104-1L x25.070

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5562083.143	33.606	**1305.487**	16.025	1.2	ppb
	Mg	24	2337227.389	14.206	**772.374**	8.859	1.1	ppb
	Al	27	128577.415	0.620	**22.401**	0.828	3.7	ppb
	K	39	1532410.861	4.788	**79.312**	21.808	27.5	ppb
	Ca	43	43330.103	0.257	**1858.359**	27.663	1.5	ppb
>	Sc	45	164193.466	164193.466				ppb
	Fe	57	27533.696	0.169	**33.548**	10.246	30.5	ppb
>	Ge	72	74236.989	74236.989				ppb
>	Lu	175	90304.580	90304.580				ppb
	Pb	208	2139.078	0.017	**0.048**	0.003	5.4	ppb

Quantitative Analysis - Summary

Sample ID: G161-2104-1M dup x25

Autosampler Position: 48
Sample Date/Time: Wednesday, August 10, 2005 15:23:05
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\G161-2104-1M dup x25.071

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	4563167.149	32.776	**1273.220**	69.181	5.4	ppb
	Mg	24	1942932.879	14.267	**775.660**	12.658	1.6	ppb
	Al	27	82418.952	0.447	**16.160**	0.753	4.7	ppb
	K	39	1325544.631	8.106	**134.285**	118.019	87.9	ppb
	Ca	43	35996.535	0.252	**1824.650**	107.943	5.9	ppb
>	Sc	45	135270.250	135270.250				ppb
	Fe	57	22039.137	0.274	**54.268**	57.802	106.5	ppb
>	Ge	72	62027.521	62027.521				ppb
>	Lu	175	74551.659	74551.659				ppb
	Pb	208	1755.665	0.018	**0.051**	0.008	16.0	ppb

Quantitative Analysis - Summary

Sample ID: ccv2

Autosampler Position: 3
Sample Date/Time: Wednesday, August 10, 2005 15:26:32
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccv2.072

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	38485.362	0.018	**0.715**	0.147	20.6	ppb
	Mg	24	2793.697	-0.036	**-1.936**	0.035	1.8	ppb
	Al	27	8845.143	-0.117	**-4.228**	0.157	3.7	ppb
	K	39	865050.465	0.083	**1.381**	2.009	145.5	ppb
	Ca	43	1365.421	-0.000	**-0.894**	2.778	310.7	ppb
>	Sc	45	177031.194	177031.194				ppb
	Fe	57	15649.750	-0.015	**-2.897**	0.762	26.3	ppb
>	Ge	72	79270.365	79270.365				ppb
>	Lu	175	92483.856	92483.856				ppb
	Pb	208	167498.725	1.805	**5.086**	0.033	0.7	ppb

Quantitative Analysis - Summary

Sample ID: ccb2

Autosampler Position: 1
Sample Date/Time: Wednesday, August 10, 2005 15:30:00
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccb2.073

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	31304.807	0.027	**1.063**	1.681	158.1	ppb
	Mg	24	7514.057	0.001	**0.036**	0.072	199.4	ppb
	Al	27	24152.266	-0.000	**-0.006**	0.091	1497.4	ppb
	K	39	795788.520	1.172	**19.421**	32.717	168.5	ppb
	Ca	43	1264.830	0.001	**8.505**	8.876	104.4	ppb
>	Sc	45	145277.238	145277.238				ppb
	Fe	57	15710.796	0.047	**9.229**	14.865	161.1	ppb
>	Ge	72	65687.316	65687.316				ppb
>	Lu	175	75916.438	75916.438				ppb
	Pb	208	543.638	0.001	**0.002**	0.003	153.7	ppb

Quantitative Analysis - Summary

Sample ID: icsA2

Autosampler Position: 9
Sample Date/Time: Wednesday, August 10, 2005 15:33:28
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\icsA2.074

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	19758154.483	127.943	**4970.123**	180.529	3.6	ppb
	Mg	24	13773435.151	89.160	**4847.509**	200.929	4.1	ppb
	Al	27	21140327.802	136.696	**4939.451**	214.606	4.3	ppb
	K	39	47528266.833	304.109	**5037.699**	143.419	2.8	ppb
	Ca	43	109621.191	0.707	**5118.525**	67.013	1.3	ppb
>	Sc	45	152789.533	152789.533				ppb
	Fe	57	1657546.637	22.737	**4504.147**	141.620	3.1	ppb
>	Ge	72	72820.100	72820.100				ppb
>	Lu	175	82997.330	82997.330				ppb
	Pb	208	857.738	0.004	**0.010**	0.002	14.6	ppb

Quantitative Analysis - Summary

Sample ID: icsB2

Autosampler Position: 10
Sample Date/Time: Wednesday, August 10, 2005 15:36:56
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\icsB2.075

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	12256682.177	87.884	**3413.961**	2779.660	81.4	ppb
	Mg	24	8556543.899	61.055	**3319.469**	2790.936	84.1	ppb
	Al	27	13177673.193	94.054	**3398.599**	2859.724	84.1	ppb
	K	39	29653788.766	263.310	**4361.845**	1298.783	29.8	ppb
	Ca	43	68210.042	0.503	**3639.553**	2688.698	73.9	ppb
>	Sc	45	94883.541	94883.541				ppb
	Fe	57	1023477.092	22.122	**4382.329**	243.714	5.6	ppb
>	Ge	72	44783.225	44783.225				ppb
>	Lu	175	50808.804	50808.804				ppb
	Pb	208	54929.929	1.251	**3.526**	0.897	25.4	ppb

Quantitative Analysis - Summary

Sample ID: ccv3

Autosampler Position: 3
Sample Date/Time: Wednesday, August 10, 2005 15:40:23
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccv3.076

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	40972.144	0.122	**4.734**	3.450	72.9	ppb
	Mg	24	6031.439	0.000	**0.010**	1.450	14615.0	ppb
	Al	27	12963.728	-0.061	**-2.186**	1.595	73.0	ppb
	K	39	827175.115	2.140	**35.457**	53.522	150.9	ppb
	Ca	43	1196.901	0.001	**8.412**	10.516	125.0	ppb
>	Sc	45	140178.069	140178.069				ppb
	Fe	57	15425.224	0.078	**15.481**	25.255	163.1	ppb
>	Ge	72	62138.384	62138.384				ppb
>	Lu	175	70740.515	70740.515				ppb
	Pb	208	127659.244	1.800	**5.073**	0.021	0.4	ppb

Quantitative Analysis - Summary

Sample ID: cvs3

Autosampler Position: 5
Sample Date/Time: Wednesday, August 10, 2005 15:43:52
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\cvs3.077

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	2037397.738	13.013	**505.518**	3.876	0.8	ppb
|	Mg	24	1476512.633	9.583	**520.993**	10.914	2.1	ppb
|	Al	27	2186678.401	14.002	**505.948**	5.458	1.1	ppb
|	K	39	5452564.535	30.913	**512.083**	19.804	3.9	ppb
|	Ca	43	11680.717	0.068	**493.958**	10.754	2.2	ppb
⌊>	Sc	45	153917.119	153917.119				ppb
⌈	Fe	57	195479.294	2.677	**530.386**	31.345	5.9	ppb
⌊>	Ge	72	68631.127	68631.127				ppb
⌈>	Lu	175	79291.240	79291.240				ppb
⌊	Pb	208	431.757	-0.001	**-0.003**	0.004	141.3	ppb

Quantitative Analysis - Summary

Sample ID: ccb3

Autosampler Position: 1
Sample Date/Time: Wednesday, August 10, 2005 15:47:20
Sample File: C:\elandata\Sample\081005b.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\081005\ccb3.078

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	32604.884	0.039	**1.513**	2.070	136.9	ppb
	Mg	24	8225.865	0.007	**0.358**	0.347	96.8	ppb
	Al	27	25113.619	0.009	**0.328**	0.563	171.9	ppb
	K	39	828534.104	1.575	**26.095**	41.722	159.9	ppb
	Ca	43	1242.770	0.001	**8.185**	12.226	149.4	ppb
>	Sc	45	146186.426	146186.426				ppb
	Fe	57	16501.547	0.075	**14.868**	20.890	140.5	ppb
>	Ge	72	64242.860	64242.860				ppb
>	Lu	175	71905.888	71905.888				ppb
	Pb	208	527.331	0.001	**0.002**	0.002	94.2	ppb

GADDY PROPERTY
DATA VALIDATION PACKAGES

GADDY PROPERTY CHECKLIST– June/July 2005 Sampling

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2048 Collected June 28-29, 2005	G1-5	*G1-5 (DUP) (QC)*
	G1-10	*Trip Blank (QC)*
	G1-15	G5-4
	G1-20	G6-1
	G2-5	G8-1
	G2-10	
	G2-15	
G161-2069 Collected July 12, 2005	GMW-4	
	GMW-5	

ARCADIS G&M, Inc
4915 Prospectus Drive, Suite F
Durham, North Carolina 27713
Tel 919-544-4535
Fax 919-544-5690

Project: Gaddy Property

SOIL and GROUNDWATER

Project Number:
NC105012 0001 RN001

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil and Groundwater
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) and Diesel Range Organics (DRO)/8015; Oil and Grease/9071; Ethylene Dibromide (EDB)/504.1; and RCRA Metals/6010B and 7471.
QA Reporting Levels:	All samples received a Level II Data Validation.

FIELD DATA PACKAGE DOCUMENTATION

The review of the field documents for the samples included in this SDG was conducted by the field quality assurance officer and is not presented in this data validation checklist.

The following Field QC samples were collected in association with these June/July 2005 soil and groundwater samples. It should be noted that field QC samples were collected at the appropriate frequency.

One blind field duplicate was collected during this sampling event:

- G1-5 (DUP) is the blind field duplicate for primary sample G1-5.

One Trip Blank sample was analyzed for VOCs/Method 8260.

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list	X				X
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

1. Although additional data were provided by the laboratory, a Level II data validation was performed on these data packages. Any Tentatively Identified Compounds (TICs) reported were not evaluated as part of this validation. Twenty-five percent of the data for each parameter was validated, with the directive that if serious quality control deficiencies were encountered, that the remainder of the data would be validated. No such deficiencies were encountered.

   The Chain-of-Custody and data pages for each of the laboratory data packages included in this validation are attached. Any qualifiers assigned to this data are detailed in the following sections, and are clearly marked on these data pages.

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Field (rinseate) blanks	X				X
D. Trip blanks		X		X	
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD)		X		X	
7. Laboratory Control Sample (LCS)		X		X	
8. Laboratory Control Sample Duplicate(LCSD)		X		X	
9. LCS/LCSD precision (RPD)		X		X	
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison		X		X	

VOCs - volatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
This section presents the review of USEPA Volatile Organics (VOC)/8260-5035; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO); and Ethylene Dibromide (EDB)/504.1. Performance was acceptable, with the following exceptions and notes:

2. Due to the abundance of one or more target analytes, the following samples were diluted, with reporting limits raised accordingly.

G1-5	All VOCs (1:2,500); SVOCs (1:2), VPH (1:20), and EPH (1:4)
G1-10	All VOCs (1:4,000) and VPH (1:20)
G1-15	All VOCs (1:100)
G2-5	All VOCs (1:50)
G2-10	All VOCs (1:50)
G1-5 (DUP)	All VOCs (1:4,000) and VPH (1:20)

3A. The Method Blanks (MB) associated with each batch of samples did not detect any of the target compounds above the reporting limit.

3D. None of the target compounds were detected in the Trip Blank.

4-6. Sample G1-10 was used for one of the MS/MSD analyses. One or both recoveries were below the control limit for toluene, n-butylbenzene, ethylbenene, m&p-xylene, and o-xylene. The results for these compounds in this sample were qualified as estimated "J" if detected and "UJ" if nondetect. In addition, the RPD for naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethyl-

benzene were above the control limit. The results for these compounds in this sample were qualified as estimated "J" if detected.

Sample G2-15 was used for one of the MS/MSD analyses. There were some deviations in this sample. However, the results for this sample were all nondetect, and none of the deviations were below the control limit, so no action was required.

Batch samples were not evaluated for matrix interference with our samples.

7-9. The full list of VOC LCS recoveries contained some deviations in each batch. However, all deviations were above the control limit and the associated samples results were nondetect, so no action was required.

10. The VOC surrogate recovery for 1,2-dichloroethane in samples G1-20, G2-15, and the Trip Blank were above the control limit. However, all of the results for these samples were nondetect and no action was required.

    One or both of the VPH surrogates recoveries were above the control limit in samples G1-5, G1-10, and G1-5 (DUP). Any detected results in these samples were qualified as estimated "J."

11. The field duplicate sample criteria were met for VOCs and VPH for field duplicate, G1-5 (DUP), and its primary sample, G1-5, with one exception. The RPD criterion was slightly exceeded for the VPH C_9-C_{10} aromatic fraction (71 / 40 mg/kg, respectively) and both of these results were qualified as estimated "J."

SEMIVOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times					
A. Extraction holding time		X		X	
B. Analysis holding time		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
C. Equipment Blanks	X				X
D. Field Blanks	X				X
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD))		X		X	
7. Laboratory control sample (LCS)		X		X	
8. LCS duplicate (LCSD)	X				X
9. LCS/LCSD precision (RPD)	X				X
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison		X		X	

SVOCs - semivolatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:

This section includes review of Semi-VOCs (SVOC)/8270-BN; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; Total Petroleum Hydrocarbons (TPH) – Diesel Range Organics (DRO); and Oil and Grease/9071. Performance was acceptable, with the following exceptions and notes. Note that the laboratory reported N-Nitrosodiphenylamine as the breakdown product diphenylamine.

2. Due to the abundance of one or more target analytes, the following sample was diluted, with reporting limits raised accordingly.

   G1-5 All SVOCs (1:2) and EPH (1:4)

3A. The Method Blanks (MB) associated with each batch of samples did not detect any of the target compounds above the reporting limit.

4-6. One of the unvalidated samples was used for the SVOC MS/MSD analysis, and no action was taken on these results. Batch samples were used for the remaining analyses, and were not evaluated for matrix interference with our samples.

7. There were several SVOC LCS recoveries above the control limit. However, none of these compounds were detected in the associated samples and no action was taken.

10. The DRO surrogate recovery was above the control limit in sample G6-1. This detected result in this sample was qualified as estimated "J."

SEMIVOLATILE ORGANIC COMPOUNDS (Continued)

11. The field duplicate sample criteria were met for SVOCs and EPH for field duplicate, G1-5 (DUP), and its primary sample, G1-5, with the following exceptions. The RPD criterion was exceeded for two SVOC results: 2-methylnaphthalene (33.8 / 14.8 mg/kg, respectively) and naphthalene (30.1 / 13.3 mg/kg, respectively). In addition, the RPD criterion was exceeded for the EPH C_9-C_{18} aliphatic fraction (800 / 110 mg/kg, respectively) and the C_{11}-C_{22} aromatic fraction (360 / 65 mg/kg, respectively). The larger variation in EPH results was most likely an artifact of the primary sample being diluted 1:4, while the duplicate remained undiluted. However, it is clear that some variation in sample results is being caused either by matrix interference or nonhomogeneity of the soil samples. In all cases, both of the results were qualified as estimated "J."

METALS METHOD

Items Reviewed	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Field (rinseate) blanks	X				X
4. Laboratory control sample (LCS) %R		X		X	
5. Laboratory control sample duplicate (LCSD) %R		X		X	
6. LCS/LCSD RPD		X		X	
7. Matrix spike (MS) %R		X		X	
8. MS duplicate (MSD) %R		X		X	
9. MS/MSD RPD		X		X	
10. Field duplicate comparison	X				X
11. Total and dissolved metals comparison	X				X

%R - percent recovery RPD - relative percent difference MSD - matrix spike duplicate

Comments:
This section includes review of Method 6010B/7470 for RCRA Metals. Performance was acceptable, with the following exceptions and notes.

3A. None of the blanks detected any of the target metals at concentrations above the reporting limit.

4-6. The LCS/LCSD recoveries and RPD were within control limits.

7-9. Sample G6-1 was used for the MS/MSD analysis. The recoveries and RPD were within control limits, with the following exceptions. The MSD recovery for Cr was below the control limit, and the MSD recovery for Pb was above the control limit. These detected results in sample G6-1 were qualified as estimated "J."

DATA VALIDATION CHECKLIST
SUMMARY AND DATA QUALIFIER CODES

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2048 Collected June 28-29, 2005	G1-5	*G1-5 (DUP) (QC)*
	G1-10	*Trip Blank (QC)*
	G1-15	G5-4
	G1-20	G6-1
	G2-5	G8-1
	G2-10	
	G2-15	
G161-2069 Collected July 12, 2005	GMW-4	
	GMW-5	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil and Groundwater
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO) and Diesel Range Organics (DRO)/8015; Oil and Grease/9071; Ethylene Dibromide (EDB)/504.1; and RCRA Metals/6010B and 7471
QA Reporting Levels:	All samples received a Level II Data Validation.

Explanation/Notes:
Analytical data submitted in the above referenced Paradigm Analytical reports were reviewed and evaluated using the USEPA National Functional Guidelines (NFG) for the Review of Organic Data, dated October 1999, NFG for the Review of Inorganic Data, dated October 2004, the method specific criteria, and professional judgment where applicable. Data validation qualifiers that were assigned are presented in the attached data sheets. A detailed description of quality control (QC) deficiencies is included in the corresponding data section. All other data are classified as quantitative.

VALIDATION PERFORMED BY SIGNATURE: Tony A. Gle

DATE: April 24, 2006

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47599
Page 1 **of** 3

Client: ECS, Ltd
Address: 6409 International Dr, #103
Address: Greensboro, NC 27409
Quote #: 1842
Project ID: Gaddy Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160
Date: 6/29/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:
Report To: jricks@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: Meth.	Na Bisulfate	None		Analyses: 8260/5035	8270 BN	EPH	VPH							Comments: Please specify any special reporting requirements
G1-5	6/28/05	13:10	S	X	X	X		X	X	X	X							City of Greensboro Project
G1-10		13:15		X	X	X		X	X	X	X							
G1-15		13:20		X	X	X		X	X	X	X							
G1-20		13:25		X	X	X		X	X	X	X							
G2-5		13:48		X	X	X		X	X	X	X							
G2-10		13:52		X	X	X		X	X	X	X							
G2-15		13:54		X	X	X		X	X	X	X							
G3-5		14:25		X	X	X		X	X	X	X							
G3-10		14:30		X	X	X		X	X	X	X							
G3-15		14:34		X	X	X		X	X	X	X							

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[illegible]	6/29/05	7:00	[illegible]	6/30/05	1100	4-7°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47717
Page 2 of 3

Client: ECS, Ltd
Address: 6909 International Dr, Ste 103
Address: Greensboro, NC 27409
Quote #: 1842

Project ID: Gaddy Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160

Date: 6/29/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:

Report To: jricks@ecsltd.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Meth	Na Bis		Analyses: 8260/5035	8270BN	EPH	VPH	5030/3550	9071 w/ Silica gel ext.	RCRA Metals				Comments: Please specify any special reporting requirements
G4-5	6/28/05	15:05	S	X	X	X		X	X	X	X							City of
G4-10	↓	15:08	↓	X	X	X		X	X	X	X							
G4-15	↓	15:11	↓	X	X	X		X	X	X	X							Greensboro
G1-5 (Dup)	↓	13:10	↓	X	X	X		X	X	X	X							
G5-4	6/29/05	9:49	↓	X								X	X					Project
G6-1	↓	9:52	↓	X								X	X	X				
G7-4	↓	10:01	↓	X								X	X					RCRA added per
G7-10	↓	12:52	↓	X								X	X					Jason Ricks
G8-1	↓	10:04	↓	X								X	X	X				
G9-5	↓	10:25	↓	X								X	X					7/19/05

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	6/29/05	7:00	[signature]	6/30/05	1100	4-7°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47718

Page 3 **of** 3

Client: ECS, Ltd. **Project ID:** Gaddy Property **Date:** 6/29/05 **Report To:** jricks@ecslimited.com
Address: 6909 International Dr, Ste 103 **Contact:** Jason Ricks **Turnaround:** Standard
Address: Greensboro, NC 27409 **Phone:** (336) 856-7150 **Job Number:** G-9506
Quote #: 1842 **Fax:** 856-7160 **P.O. Number:** **Invoice To:**

Sample ID	Date	Time	Matrix	Preservatives: None	Preservatives: Meth	Preservatives: Na Bisulfate		Analyses: 8260/5035	Analyses: 8270 BN	Analyses: EPH								Comments: Please specify any special reporting requirements
G-10-5	6/29/05	10:40	S	X					X	X								City of Greensboro Project
G10-10		10:42 ~~10:50~~		X					X	X								
G10-15		10:45 ~~10:40~~		X					X	X								
G10-20		10:50		X					X	X								
Trip Blank		—	Blank		X	X		X										

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	6/29/05	7:00	[signature]	6/30/05	1100	4.7°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-1D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:10
Date Received: 6/30/05
Matrix: Soil
%Solids: 77 1

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	74 9	2500	7/2/05
Benzene	BQL	3.00	2500	7/2/05
Bromobenzene	BQL	3.00	2500	7/2/05
Bromochloromethane	BQL	3.00	2500	7/2/05
Bromodichloromethane	BQL	3 00	2500	7/2/05
Bromoform	BQL	3.00	2500	7/2/05
Bromomethane	BQL	3 00	2500	7/2/05
2-Butanone	BQL	74.9	2500	7/2/05
n-Butylbenzene	BQL	3 00	2500	7/2/05
sec-Butylbenzene	**4.28**	3 00	2500	7/2/05
tert-Butylbenzene	BQL	3.00	2500	7/2/05
Carbon disulfide	BQL	3.00	2500	7/2/05
Carbon tetrachloride	BQL	3.00	2500	7/2/05
Chlorobenzene	BQL	3.00	2500	7/2/05
Chloroethane	BQL	3.00	2500	7/2/05
Chloroform	BQL	3.00	2500	7/2/05
Chloromethane	BQL	3.00	2500	7/2/05
2-Chlorotoluene	BQL	3.00	2500	7/2/05
4-Chlorotoluene	BQL	3.00	2500	7/2/05
Dibromochloromethane	BQL	3.00	2500	7/2/05
1,2-Dibromo-3-chloropropane	BQL	15.0	2500	7/2/05
Dibromomethane	BQL	3 00	2500	7/2/05
1,2-Dibromoethane (EDB)	BQL	3.00	2500	7/2/05
1,2-Dichlorobenzene	BQL	3.00	2500	7/2/05
1,3-Dichlorobenzene	BQL	3 00	2500	7/2/05
1,4-Dichlorobenzene	BQL	3 00	2500	7/2/05
trans-1,4-Dichloro-2-butene	BQL	15.0	2500	7/2/05
1,1-Dichloroethane	BQL	3 00	2500	7/2/05
1,1-Dichloroethene	BQL	3.00	2500	7/2/05
1,2-Dichloroethane	BQL	3 00	2500	7/2/05
cis-1,2-Dichloroethene	BQL	3 00	2500	7/2/05
trans-1,2-dichloroethene	BQL	3 00	2500	7/2/05
1,2-Dichloropropane	BQL	3.00	2500	7/2/05
1,3-Dichloropropane	BQL	3 00	2500	7/2/05
2,2-Dichloropropane	BQL	3 00	2500	7/2/05
1,1-Dichloropropene	BQL	3.00	2500	7/2/05
cis-1,3-Dichloropropene	BQL	3 00	2500	7/2/05
trans-1,3-Dichloropropene	BQL	3 00	2500	7/2/05
Dichlorodifluoromethane	BQL	15.0	2500	7/2/05
Diisopropyl ether (DIPE)	BQL	3.00	2500	7/2/05
Ethylbenzene	**38.5**	3.00	2500	7/2/05
Hexachlorobutadiene	BQL	3 00	2500	7/2/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-1D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:10
Date Received: 6/30/05
Matrix: Soil
%Solids: 77 1

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	15.0	2500	7/2/05
Iodomethane	BQL	3.00	2500	7/2/05
Isopropylbenzene	**8.12**	3 00	2500	7/2/05
4-Isopropyltoluene	**3.12**	3 00	2500	7/2/05
Methylene chloride	BQL	15 0	2500	7/2/05
4-Methyl-2-pentanone	BQL	15.0	2500	7/2/05
Methyl-tert-butyl ether (MTBE)	BQL	3.00	2500	7/2/05
Naphthalene	**47.0**	3.00	2500	7/2/05
n-Propyl benzene	**25.1**	3 00	2500	7/2/05
Styrene	BQL	3.00	2500	7/2/05
1,1,1,2-Tetrachloroethane	BQL	3.00	2500	7/2/05
1,1,2,2-Tetrachloroethane	BQL	3.00	2500	7/2/05
Tetrachloroethene	BQL	3.00	2500	7/2/05
Toluene	**31.4**	3.00	2500	7/2/05
1,2,3-Trichlorobenzene	BQL	3.00	2500	7/2/05
1,2,4-Trichlorobenzene	BQL	3.00	2500	7/2/05
Trichloroethene	BQL	3.00	2500	7/2/05
1,1,1-Trichloroethane	BQL	3.00	2500	7/2/05
1,1,2-Trichloroethane	BQL	3.00	2500	7/2/05
Trichlorofluoromethane	BQL	3 00	2500	7/2/05
1,2,3-Trichloropropane	BQL	3.00	2500	7/2/05
1,2,4-Trimethylbenzene	**184**	5 99	5000	7/3/05
1,3,5-Trimethylbenzene	**54.6**	3 00	2500	7/2/05
Vinyl chloride	BQL	3.00	2500	7/2/05
m-,p-Xylene	**167**	5 99	2500	7/2/05
o-Xylene	**71.8**	3.00	2500	7/2/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0 01	0 00932	93
1,2-Dichloroethane-d4	0.01	0.011	110
Toluene-d8	0 01	0 0103	103

Comments:

Flags:
BQL = Below Quantitation Limits
J = Detected below the quantitation limit.

Reviewed By: JW

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-2D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:15
Date Received: 6/30/05
Matrix: Soil
%Solids: 74.9

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	107	4000	7/3/05
Benzene	BQL	4.27	4000	7/3/05
Bromobenzene	BQL	4.27	4000	7/3/05
Bromochloromethane	BQL	4.27	4000	7/3/05
Bromodichloromethane	BQL	4.27	4000	7/3/05
Bromoform	BQL	4.27	4000	7/3/05
Bromomethane	BQL	4.27	4000	7/3/05
2-Butanone	BQL	107	4000	7/3/05
n-Butylbenzene	**21.2** - J	4.27	4000	7/3/05
sec-Butylbenzene	BQL	4.27	4000	7/3/05
tert-Butylbenzene	BQL	4.27	4000	7/3/05
Carbon disulfide	BQL	4.27	4000	7/3/05
Carbon tetrachloride	BQL	4.27	4000	7/3/05
Chlorobenzene	BQL	4.27	4000	7/3/05
Chloroethane	BQL	4.27	4000	7/3/05
Chloroform	BQL	4.27	4000	7/3/05
Chloromethane	BQL	4.27	4000	7/3/05
2-Chlorotoluene	BQL	4.27	4000	7/3/05
4-Chlorotoluene	BQL	4.27	4000	7/3/05
Dibromochloromethane	BQL	4.27	4000	7/3/05
1,2-Dibromo-3-chloropropane	BQL	21.4	4000	7/3/05
Dibromomethane	BQL	4.27	4000	7/3/05
1,2-Dibromoethane (EDB)	BQL	4.27	4000	7/3/05
1,2-Dichlorobenzene	BQL	4.27	4000	7/3/05
1,3-Dichlorobenzene	BQL	4.27	4000	7/3/05
1,4-Dichlorobenzene	BQL	4.27	4000	7/3/05
trans-1,4-Dichloro-2-butene	BQL	21.4	4000	7/3/05
1,1-Dichloroethane	BQL	4.27	4000	7/3/05
1,1-Dichloroethene	BQL	4.27	4000	7/3/05
1,2-Dichloroethane	BQL	4.27	4000	7/3/05
cis-1,2-Dichloroethene	BQL	4.27	4000	7/3/05
trans-1,2-dichloroethene	BQL	4.27	4000	7/3/05
1,2-Dichloropropane	BQL	4.27	4000	7/3/05
1,3-Dichloropropane	BQL	4.27	4000	7/3/05
2,2-Dichloropropane	BQL	4.27	4000	7/3/05
1,1-Dichloropropene	BQL	4.27	4000	7/3/05
cis-1,3-Dichloropropene	BQL	4.27	4000	7/3/05
trans-1,3-Dichloropropene	BQL	4.27	4000	7/3/05
Dichlorodifluoromethane	BQL	21.4	4000	7/3/05
Diisopropyl ether (DIPE)	BQL	4.27	4000	7/3/05
Ethylbenzene	**40.5** - J	4.27	4000	7/3/05
Hexachlorobutadiene	BQL	4.27	4000	7/3/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-2D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:15
Date Received: 6/30/05
Matrix: Soil
%Solids: 74.9

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	21.4	4000	7/3/05
Iodomethane	BQL	4.27	4000	7/3/05
Isopropylbenzene	**7.56**	4.27	4000	7/3/05
4-Isopropyltoluene	BQL	4.27	4000	7/3/05
Methylene chloride	BQL	21.4	4000	7/3/05
4-Methyl-2-pentanone	BQL	21.4	4000	7/3/05
Methyl-tert-butyl ether (MTBE)	BQL	4.27	4000	7/3/05
Naphthalene	**42.7** J	4.27	4000	7/3/05
n-Propyl benzene	**24.4**	4.27	4000	7/3/05
Styrene	BQL	4.27	4000	7/3/05
1,1,1,2-Tetrachloroethane	BQL	4.27	4000	7/3/05
1,1,2,2-Tetrachloroethane	BQL	4.27	4000	7/3/05
Tetrachloroethene	BQL	4.27	4000	7/3/05
Toluene	**66.4** J	4.27	4000	7/3/05
1,2,3-Trichlorobenzene	BQL	4.27	4000	7/3/05
1,2,4-Trichlorobenzene	BQL	4.27	4000	7/3/05
Trichloroethene	BQL	4.27	4000	7/3/05
1,1,1-Trichloroethane	BQL	4.27	4000	7/3/05
1,1,2-Trichloroethane	BQL	4.27	4000	7/3/05
Trichlorofluoromethane	BQL	4.27	4000	7/3/05
1,2,3-Trichloropropane	BQL	4.27	4000	7/3/05
1,2,4-Trimethylbenzene	**179** J	4.27	4000	7/3/05
1,3,5-Trimethylbenzene	**54.8** J	4.27	4000	7/3/05
Vinyl chloride	BQL	4.27	4000	7/3/05
m-,p-Xylene	**177** J	8.54	4000	7/3/05
o-Xylene	**77.9** J	4.27	4000	7/3/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.00953	95
1,2-Dichloroethane-d4	0.01	0.011	110
Toluene-d8	0.01	0.0103	103

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: [signature]

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-15
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-3D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:20
Date Received: 6/30/05
Matrix: Soil
%Solids: 76.4

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2.77	100	7/3/05
Benzene	BQL	0.111	100	7/3/05
Bromobenzene	BQL	0.111	100	7/3/05
Bromochloromethane	BQL	0.111	100	7/3/05
Bromodichloromethane	BQL	0.111	100	7/3/05
Bromoform	BQL	0.111	100	7/3/05
Bromomethane	BQL	0.111	100	7/3/05
2-Butanone	BQL	2.77	100	7/3/05
n-Butylbenzene	BQL	0.111	100	7/3/05
sec-Butylbenzene	BQL	0.111	100	7/3/05
tert-Butylbenzene	BQL	0.111	100	7/3/05
Carbon disulfide	BQL	0.111	100	7/3/05
Carbon tetrachloride	BQL	0.111	100	7/3/05
Chlorobenzene	BQL	0.111	100	7/3/05
Chloroethane	BQL	0.111	100	7/3/05
Chloroform	BQL	0.111	100	7/3/05
Chloromethane	BQL	0.111	100	7/3/05
2-Chlorotoluene	BQL	0.111	100	7/3/05
4-Chlorotoluene	BQL	0.111	100	7/3/05
Dibromochloromethane	BQL	0.111	100	7/3/05
1,2-Dibromo-3-chloropropane	BQL	0.554	100	7/3/05
Dibromomethane	BQL	0.111	100	7/3/05
1,2-Dibromoethane (EDB)	BQL	0.111	100	7/3/05
1,2-Dichlorobenzene	BQL	0.111	100	7/3/05
1,3-Dichlorobenzene	BQL	0.111	100	7/3/05
1,4-Dichlorobenzene	BQL	0.111	100	7/3/05
trans-1,4-Dichloro-2-butene	BQL	0.554	100	7/3/05
1,1-Dichloroethane	BQL	0.111	100	7/3/05
1,1-Dichloroethene	BQL	0.111	100	7/3/05
1,2-Dichloroethane	BQL	0.111	100	7/3/05
cis-1,2-Dichloroethene	BQL	0.111	100	7/3/05
trans-1,2-dichloroethene	BQL	0.111	100	7/3/05
1,2-Dichloropropane	BQL	0.111	100	7/3/05
1,3-Dichloropropane	BQL	0.111	100	7/3/05
2,2-Dichloropropane	BQL	0.111	100	7/3/05
1,1-Dichloropropene	BQL	0.111	100	7/3/05
cis-1,3-Dichloropropene	BQL	0.111	100	7/3/05
trans-1,3-Dichloropropene	BQL	0.111	100	7/3/05
Dichlorodifluoromethane	BQL	0.554	100	7/3/05
Diisopropyl ether (DIPE)	BQL	0.111	100	7/3/05
Ethylbenzene	**0.500**	0.111	100	7/3/05
Hexachlorobutadiene	BQL	0.111	100	7/3/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-15
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-3D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:20
Date Received: 6/30/05
Matrix: Soil
%Solids: 76.4

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.554	100	7/3/05
Iodomethane	BQL	0.111	100	7/3/05
Isopropylbenzene	BQL	0.111	100	7/3/05
4-Isopropyltoluene	BQL	0.111	100	7/3/05
Methylene chloride	BQL	0.554	100	7/3/05
4-Methyl-2-pentanone	BQL	0.554	100	7/3/05
Methyl-tert-butyl ether (MTBE)	BQL	0.111	100	7/3/05
Naphthalene	**0.805**	0.111	100	7/3/05
n-Propyl benzene	**0.356**	0.111	100	7/3/05
Styrene	BQL	0.111	100	7/3/05
1,1,1,2-Tetrachloroethane	BQL	0.111	100	7/3/05
1,1,2,2-Tetrachloroethane	BQL	0.111	100	7/3/05
Tetrachloroethene	BQL	0.111	100	7/3/05
Toluene	**0.415**	0.111	100	7/3/05
1,2,3-Trichlorobenzene	BQL	0.111	100	7/3/05
1,2,4-Trichlorobenzene	BQL	0.111	100	7/3/05
Trichloroethene	BQL	0.111	100	7/3/05
1,1,1-Trichloroethane	BQL	0.111	100	7/3/05
1,1,2-Trichloroethane	BQL	0.111	100	7/3/05
Trichlorofluoromethane	BQL	0.111	100	7/3/05
1,2,3-Trichloropropane	BQL	0.111	100	7/3/05
1,2,4-Trimethylbenzene	**2.79**	0.111	100	7/3/05
1,3,5-Trimethylbenzene	**0.845**	0.111	100	7/3/05
Vinyl chloride	BQL	0.111	100	7/3/05
m-,p-Xylene	**2.27**	0.222	100	7/3/05
o-Xylene	**0.774**	0.111	100	7/3/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.00981	98
1,2-Dichloroethane-d4	0.01	0.0111	111
Toluene-d8	0.01	0.0102	102

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: G1-20
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-4A
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 06-28-2005 13:25
Date Received: 6/30/05
Matrix: Soil
%Solids: 79 6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0 0486	1	7/12/05
Benzene	BQL	0.00486	1	7/12/05
Bromobenzene	BQL	0.00486	1	7/12/05
Bromochloromethane	BQL	0.00486	1	7/12/05
Bromodichloromethane	BQL	0.00486	1	7/12/05
Bromoform	BQL	0.00486	1	7/12/05
Bromomethane	BQL	0.00486	1	7/12/05
2-Butanone	BQL	0 0243	1	7/12/05
n-Butylbenzene	BQL	0.00486	1	7/12/05
sec-Butylbenzene	BQL	0.00486	1	7/12/05
tert-Butylbenzene	BQL	0.00486	1	7/12/05
Carbon disulfide	BQL	0.00486	1	7/12/05
Carbon tetrachloride	BQL	0.00486	1	7/12/05
Chlorobenzene	BQL	0.00486	1	7/12/05
Chloroethane	BQL	0.00486	1	7/12/05
Chloroform	BQL	0.00486	1	7/12/05
Chloromethane	BQL	0.00486	1	7/12/05
2-Chlorotoluene	BQL	0.00486	1	7/12/05
4-Chlorotoluene	BQL	0.00486	1	7/12/05
Dibromochloromethane	BQL	0.00486	1	7/12/05
1,2-Dibromo-3-chloropropane	BQL	0.00486	1	7/12/05
Dibromomethane	BQL	0.00486	1	7/12/05
1,2-Dibromoethane (EDB)	BQL	0.00486	1	7/12/05
1,2-Dichlorobenzene	BQL	0 00486	1	7/12/05
1,3-Dichlorobenzene	BQL	0.00486	1	7/12/05
1,4-Dichlorobenzene	BQL	0.00486	1	7/12/05
trans-1,4-Dichloro-2-butene	BQL	0.00486	1	7/12/05
1,1-Dichloroethane	BQL	0.00486	1	7/12/05
1,1-Dichloroethene	BQL	0 00486	1	7/12/05
1,2-Dichloroethane	BQL	0.00486	1	7/12/05
cis-1,2-Dichloroethene	BQL	0.00486	1	7/12/05
trans-1,2-dichloroethene	BQL	0.00486	1	7/12/05
1,2-Dichloropropane	BQL	0.00486	1	7/12/05
1,3-Dichloropropane	BQL	0.00486	1	7/12/05
2,2-Dichloropropane	BQL	0.00486	1	7/12/05
1,1-Dichloropropene	BQL	0 00486	1	7/12/05
cis-1,3-Dichloropropene	BQL	0.00486	1	7/12/05
trans-1,3-Dichloropropene	BQL	0.00486	1	7/12/05
Dichlorodifluoromethane	BQL	0.00486	1	7/12/05
Diisopropyl ether (DIPE)	BQL	0.00486	1	7/12/05
Ethylbenzene	BQL	0.00486	1	7/12/05
Hexachlorobutadiene	BQL	0.00486	1	7/12/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: G1-20
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-4A
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 06-28-2005 13:25
Date Received: 6/30/05
Matrix: Soil
%Solids: 79.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00486	1	7/12/05
Iodomethane	BQL	0.00486	1	7/12/05
Isopropylbenzene	BQL	0.00486	1	7/12/05
4-Isopropyltoluene	BQL	0.00486	1	7/12/05
Methylene chloride	BQL	0.0194	1	7/12/05
4-Methyl-2-pentanone	BQL	0.00486	1	7/12/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00486	1	7/12/05
Naphthalene	BQL	0.00486	1	7/12/05
n-Propyl benzene	BQL	0.00486	1	7/12/05
Styrene	BQL	0.00486	1	7/12/05
1,1,1,2-Tetrachloroethane	BQL	0.00486	1	7/12/05
1,1,2,2-Tetrachloroethane	BQL	0.00486	1	7/12/05
Tetrachloroethene	BQL	0.00486	1	7/12/05
Toluene	BQL	0.00486	1	7/12/05
1,2,3-Trichlorobenzene	BQL	0.00486	1	7/12/05
1,2,4-Trichlorobenzene	BQL	0.00486	1	7/12/05
Trichloroethene	BQL	0.00486	1	7/12/05
1,1,1-Trichloroethane	BQL	0.00486	1	7/12/05
1,1,2-Trichloroethane	BQL	0.00486	1	7/12/05
Trichlorofluoromethane	BQL	0.00486	1	7/12/05
1,2,3-Trichloropropane	BQL	0.00486	1	7/12/05
1,2,4-Trimethylbenzene	BQL	0.00486	1	7/12/05
1,3,5-Trimethylbenzene	BQL	0.00486	1	7/12/05
Vinyl chloride	BQL	0.00486	1	7/12/05
m-,p-Xylene	BQL	0.00972	1	7/12/05
o-Xylene	BQL	0.00486	1	7/12/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0485	97
1,2-Dichloroethane-d4	0.05	0.0669	134
Toluene-d8	0.05	0.0504	101

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G2-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-5D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:48
Date Received: 6/30/05
Matrix: Soil
%Solids: 88.5

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	1.25	50	7/3/05
Benzene	BQL	0.0498	50	7/3/05
Bromobenzene	BQL	0.0498	50	7/3/05
Bromochloromethane	BQL	0.0498	50	7/3/05
Bromodichloromethane	BQL	0.0498	50	7/3/05
Bromoform	BQL	0.0498	50	7/3/05
Bromomethane	BQL	0.0498	50	7/3/05
2-Butanone	BQL	1.25	50	7/3/05
n-Butylbenzene	**0.174**	0.0498	50	7/3/05
sec-Butylbenzene	**0.0578**	0.0498	50	7/3/05
tert-Butylbenzene	BQL	0.0498	50	7/3/05
Carbon disulfide	BQL	0.0498	50	7/3/05
Carbon tetrachloride	BQL	0.0498	50	7/3/05
Chlorobenzene	BQL	0.0498	50	7/3/05
Chloroethane	BQL	0.0498	50	7/3/05
Chloroform	BQL	0.0498	50	7/3/05
Chloromethane	BQL	0.0498	50	7/3/05
2-Chlorotoluene	BQL	0.0498	50	7/3/05
4-Chlorotoluene	BQL	0.0498	50	7/3/05
Dibromochloromethane	BQL	0.0498	50	7/3/05
1,2-Dibromo-3-chloropropane	BQL	0.249	50	7/3/05
Dibromomethane	BQL	0.0498	50	7/3/05
1,2-Dibromoethane (EDB)	BQL	0.0498	50	7/3/05
1,2-Dichlorobenzene	BQL	0.0498	50	7/3/05
1,3-Dichlorobenzene	BQL	0.0498	50	7/3/05
1,4-Dichlorobenzene	BQL	0.0498	50	7/3/05
trans-1,4-Dichloro-2-butene	BQL	0.249	50	7/3/05
1,1-Dichloroethane	BQL	0.0498	50	7/3/05
1,1-Dichloroethene	BQL	0.0498	50	7/3/05
1,2-Dichloroethane	BQL	0.0498	50	7/3/05
cis-1,2-Dichloroethene	BQL	0.0498	50	7/3/05
trans-1,2-dichloroethene	BQL	0.0498	50	7/3/05
1,2-Dichloropropane	BQL	0.0498	50	7/3/05
1,3-Dichloropropane	BQL	0.0498	50	7/3/05
2,2-Dichloropropane	BQL	0.0498	50	7/3/05
1,1-Dichloropropene	BQL	0.0498	50	7/3/05
cis-1,3-Dichloropropene	BQL	0.0498	50	7/3/05
trans-1,3-Dichloropropene	BQL	0.0498	50	7/3/05
Dichlorodifluoromethane	BQL	0.249	50	7/3/05
Diisopropyl ether (DIPE)	BQL	0.0498	50	7/3/05
Ethylbenzene	**0.0518**	0.0498	50	7/3/05
Hexachlorobutadiene	BQL	0.0498	50	7/3/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G2-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-5D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:48
Date Received: 6/30/05
Matrix: Soil
%Solids: 88.5

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.249	50	7/3/05
Iodomethane	BQL	0.0498	50	7/3/05
Isopropylbenzene	BQL	0.0498	50	7/3/05
4-Isopropyltoluene	BQL	0.0498	50	7/3/05
Methylene chloride	BQL	0.249	50	7/3/05
4-Methyl-2-pentanone	BQL	0.249	50	7/3/05
Methyl-tert-butyl ether (MTBE)	BQL	0.0498	50	7/3/05
Naphthalene	**0.121**	0.0498	50	7/3/05
n-Propyl benzene	**0.150**	0.0498	50	7/3/05
Styrene	BQL	0.0498	50	7/3/05
1,1,1,2-Tetrachloroethane	BQL	0.0498	50	7/3/05
1,1,2,2-Tetrachloroethane	BQL	0.0498	50	7/3/05
Tetrachloroethene	BQL	0.0498	50	7/3/05
Toluene	BQL	0.0498	50	7/3/05
1,2,3-Trichlorobenzene	BQL	0.0498	50	7/3/05
1,2,4-Trichlorobenzene	BQL	0.0498	50	7/3/05
Trichloroethene	BQL	0.0498	50	7/3/05
1,1,1-Trichloroethane	BQL	0.0498	50	7/3/05
1,1,2-Trichloroethane	BQL	0.0498	50	7/3/05
Trichlorofluoromethane	BQL	0.0498	50	7/3/05
1,2,3-Trichloropropane	BQL	0.0498	50	7/3/05
1,2,4-Trimethylbenzene	BQL	0.0498	50	7/3/05
1,3,5-Trimethylbenzene	BQL	0.0498	50	7/3/05
Vinyl chloride	BQL	0.0498	50	7/3/05
m-,p-Xylene	BQL	0.0997	50	7/3/05
o-Xylene	BQL	0.0498	50	7/3/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.00934	93
1,2-Dichloroethane-d4	0.01	0.011	110
Toluene-d8	0.01	0.0104	104

Comments:

Flags:
BQL = Below Quantitation Limits
J = Detected below the quantitation limit

Reviewed By: _____

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G2-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-6D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:52
Date Received: 6/30/05
Matrix: Soil
%Solids: 83.4

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	1.19	50	7/4/05
Benzene	BQL	0.0478	50	7/4/05
Bromobenzene	BQL	0.0478	50	7/4/05
Bromochloromethane	BQL	0.0478	50	7/4/05
Bromodichloromethane	BQL	0.0478	50	7/4/05
Bromoform	BQL	0.0478	50	7/4/05
Bromomethane	BQL	0.0478	50	7/4/05
2-Butanone	BQL	1.19	50	7/4/05
n-Butylbenzene	**0.362**	0.0478	50	7/4/05
sec-Butylbenzene	**0.0875**	0.0478	50	7/4/05
tert-Butylbenzene	BQL	0.0478	50	7/4/05
Carbon disulfide	BQL	0.0478	50	7/4/05
Carbon tetrachloride	BQL	0.0478	50	7/4/05
Chlorobenzene	BQL	0.0478	50	7/4/05
Chloroethane	BQL	0.0478	50	7/4/05
Chloroform	BQL	0.0478	50	7/4/05
Chloromethane	BQL	0.0478	50	7/4/05
2-Chlorotoluene	BQL	0.0478	50	7/4/05
4-Chlorotoluene	BQL	0.0478	50	7/4/05
Dibromochloromethane	BQL	0.0478	50	7/4/05
1,2-Dibromo-3-chloropropane	BQL	0.239	50	7/4/05
Dibromomethane	BQL	0.0478	50	7/4/05
1,2-Dibromoethane (EDB)	BQL	0.0478	50	7/4/05
1,2-Dichlorobenzene	BQL	0.0478	50	7/4/05
1,3-Dichlorobenzene	BQL	0.0478	50	7/4/05
1,4-Dichlorobenzene	BQL	0.0478	50	7/4/05
trans-1,4-Dichloro-2-butene	BQL	0.239	50	7/4/05
1,1-Dichloroethane	BQL	0.0478	50	7/4/05
1,1-Dichloroethene	BQL	0.0478	50	7/4/05
1,2-Dichloroethane	BQL	0.0478	50	7/4/05
cis-1,2-Dichloroethene	BQL	0.0478	50	7/4/05
trans-1,2-dichloroethene	BQL	0.0478	50	7/4/05
1,2-Dichloropropane	BQL	0.0478	50	7/4/05
1,3-Dichloropropane	BQL	0.0478	50	7/4/05
2,2-Dichloropropane	BQL	0.0478	50	7/4/05
1,1-Dichloropropene	BQL	0.0478	50	7/4/05
cis-1,3-Dichloropropene	BQL	0.0478	50	7/4/05
trans-1,3-Dichloropropene	BQL	0.0478	50	7/4/05
Dichlorodifluoromethane	BQL	0.239	50	7/4/05
Diisopropyl ether (DIPE)	BQL	0.0478	50	7/4/05
Ethylbenzene	**0.395**	0.0478	50	7/4/05
Hexachlorobutadiene	BQL	0.0478	50	7/4/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G2-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-6D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:52
Date Received: 6/30/05
Matrix: Soil
%Solids: 83.4

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.239	50	7/4/05
Iodomethane	BQL	0.0478	50	7/4/05
Isopropylbenzene	**0.111**	0.0478	50	7/4/05
4-Isopropyltoluene	BQL	0.0478	50	7/4/05
Methylene chloride	BQL	0.239	50	7/4/05
4-Methyl-2-pentanone	BQL	0.239	50	7/4/05
Methyl-tert-butyl ether (MTBE)	BQL	0.0478	50	7/4/05
Naphthalene	**0.365**	0.0478	50	7/4/05
n-Propyl benzene	**0.449**	0.0478	50	7/4/05
Styrene	BQL	0.0478	50	7/4/05
1,1,1,2-Tetrachloroethane	BQL	0.0478	50	7/4/05
1,1,2,2-Tetrachloroethane	BQL	0.0478	50	7/4/05
Tetrachloroethene	BQL	0.0478	50	7/4/05
Toluene	BQL	0.0478	50	7/4/05
1,2,3-Trichlorobenzene	BQL	0.0478	50	7/4/05
1,2,4-Trichlorobenzene	BQL	0.0478	50	7/4/05
Trichloroethene	BQL	0.0478	50	7/4/05
1,1,1-Trichloroethane	BQL	0.0478	50	7/4/05
1,1,2-Trichloroethane	BQL	0.0478	50	7/4/05
Trichlorofluoromethane	BQL	0.0478	50	7/4/05
1,2,3-Trichloropropane	BQL	0.0478	50	7/4/05
1,2,4-Trimethylbenzene	**1.06**	0.0478	50	7/4/05
1,3,5-Trimethylbenzene	**0.383**	0.0478	50	7/4/05
Vinyl chloride	BQL	0.0478	50	7/4/05
m-,p-Xylene	**0.484**	0.0956	50	7/4/05
o-Xylene	**0.0851**	0.0478	50	7/4/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.00904	90
1,2-Dichloroethane-d4	0.01	0.0113	114
Toluene-d8	0.01	0.0108	108

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: G2-15
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-7A
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 06-28-2005 13:54
Date Received: 6/30/05
Matrix: Soil
%Solids: 82.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0509	1	7/12/05
Benzene	BQL	0.00509	1	7/12/05
Bromobenzene	BQL	0.00509	1	7/12/05
Bromochloromethane	BQL	0.00509	1	7/12/05
Bromodichloromethane	BQL	0.00509	1	7/12/05
Bromoform	BQL	0.00509	1	7/12/05
Bromomethane	BQL	0.00509	1	7/12/05
2-Butanone	BQL	0.0255	1	7/12/05
n-Butylbenzene	BQL	0.00509	1	7/12/05
sec-Butylbenzene	BQL	0.00509	1	7/12/05
tert-Butylbenzene	BQL	0.00509	1	7/12/05
Carbon disulfide	BQL	0.00509	1	7/12/05
Carbon tetrachloride	BQL	0.00509	1	7/12/05
Chlorobenzene	BQL	0.00509	1	7/12/05
Chloroethane	BQL	0.00509	1	7/12/05
Chloroform	BQL	0.00509	1	7/12/05
Chloromethane	BQL	0.00509	1	7/12/05
2-Chlorotoluene	BQL	0.00509	1	7/12/05
4-Chlorotoluene	BQL	0.00509	1	7/12/05
Dibromochloromethane	BQL	0.00509	1	7/12/05
1,2-Dibromo-3-chloropropane	BQL	0.00509	1	7/12/05
Dibromomethane	BQL	0.00509	1	7/12/05
1,2-Dibromoethane (EDB)	BQL	0.00509	1	7/12/05
1,2-Dichlorobenzene	BQL	0.00509	1	7/12/05
1,3-Dichlorobenzene	BQL	0.00509	1	7/12/05
1,4-Dichlorobenzene	BQL	0.00509	1	7/12/05
trans-1,4-Dichloro-2-butene	BQL	0.00509	1	7/12/05
1,1-Dichloroethane	BQL	0.00509	1	7/12/05
1,1-Dichloroethene	BQL	0.00509	1	7/12/05
1,2-Dichloroethane	BQL	0.00509	1	7/12/05
cis-1,2-Dichloroethene	BQL	0.00509	1	7/12/05
trans-1,2-dichloroethene	BQL	0.00509	1	7/12/05
1,2-Dichloropropane	BQL	0.00509	1	7/12/05
1,3-Dichloropropane	BQL	0.00509	1	7/12/05
2,2-Dichloropropane	BQL	0.00509	1	7/12/05
1,1-Dichloropropene	BQL	0.00509	1	7/12/05
cis-1,3-Dichloropropene	BQL	0.00509	1	7/12/05
trans-1,3-Dichloropropene	BQL	0.00509	1	7/12/05
Dichlorodifluoromethane	BQL	0.00509	1	7/12/05
Diisopropyl ether (DIPE)	BQL	0.00509	1	7/12/05
Ethylbenzene	BQL	0.00509	1	7/12/05
Hexachlorobutadiene	BQL	0.00509	1	7/12/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: G2-15
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-7A
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 06-28-2005 13:54
Date Received: 6/30/05
Matrix: Soil
%Solids: 82.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00509	1	7/12/05
Iodomethane	BQL	0.00509	1	7/12/05
Isopropylbenzene	BQL	0.00509	1	7/12/05
4-Isopropyltoluene	BQL	0.00509	1	7/12/05
Methylene chloride	BQL	0.0204	1	7/12/05
4-Methyl-2-pentanone	BQL	0.00509	1	7/12/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00509	1	7/12/05
Naphthalene	BQL	0.00509	1	7/12/05
n-Propyl benzene	BQL	0.00509	1	7/12/05
Styrene	BQL	0.00509	1	7/12/05
1,1,1,2-Tetrachloroethane	BQL	0.00509	1	7/12/05
1,1,2,2-Tetrachloroethane	BQL	0.00509	1	7/12/05
Tetrachloroethene	BQL	0.00509	1	7/12/05
Toluene	BQL	0.00509	1	7/12/05
1,2,3-Trichlorobenzene	BQL	0.00509	1	7/12/05
1,2,4-Trichlorobenzene	BQL	0.00509	1	7/12/05
Trichloroethene	BQL	0.00509	1	7/12/05
1,1,1-Trichloroethane	BQL	0.00509	1	7/12/05
1,1,2-Trichloroethane	BQL	0.00509	1	7/12/05
Trichlorofluoromethane	BQL	0.00509	1	7/12/05
1,2,3-Trichloropropane	BQL	0.00509	1	7/12/05
1,2,4-Trimethylbenzene	BQL	0.00509	1	7/12/05
1,3,5-Trimethylbenzene	BQL	0.00509	1	7/12/05
Vinyl chloride	BQL	0.00509	1	7/12/05
m-,p-Xylene	BQL	0.0102	1	7/12/05
o-Xylene	BQL	0.00509	1	7/12/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0487	97
1,2-Dichloroethane-d4	0.05	0.0667	133
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: _____

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-5 (Dup)
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-14D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:10
Date Received: 6/30/05
Matrix: Soil
%Solids: 74.8

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	109	4000	7/4/05
Benzene	BQL	4.38	4000	7/4/05
Bromobenzene	BQL	4.38	4000	7/4/05
Bromochloromethane	BQL	4.38	4000	7/4/05
Bromodichloromethane	BQL	4.38	4000	7/4/05
Bromoform	BQL	4.38	4000	7/4/05
Bromomethane	BQL	4.38	4000	7/4/05
2-Butanone	BQL	109	4000	7/4/05
n-Butylbenzene	BQL	4.38	4000	7/4/05
sec-Butylbenzene	BQL	4.38	4000	7/4/05
tert-Butylbenzene	BQL	4.38	4000	7/4/05
Carbon disulfide	BQL	4.38	4000	7/4/05
Carbon tetrachloride	BQL	4.38	4000	7/4/05
Chlorobenzene	BQL	4.38	4000	7/4/05
Chloroethane	BQL	4.38	4000	7/4/05
Chloroform	BQL	4.38	4000	7/4/05
Chloromethane	BQL	4.38	4000	7/4/05
2-Chlorotoluene	BQL	4.38	4000	7/4/05
4-Chlorotoluene	BQL	4.38	4000	7/4/05
Dibromochloromethane	BQL	4.38	4000	7/4/05
1,2-Dibromo-3-chloropropane	BQL	21.9	4000	7/4/05
Dibromomethane	BQL	4.38	4000	7/4/05
1,2-Dibromoethane (EDB)	BQL	4.38	4000	7/4/05
1,2-Dichlorobenzene	BQL	4.38	4000	7/4/05
1,3-Dichlorobenzene	BQL	4.38	4000	7/4/05
1,4-Dichlorobenzene	BQL	4.38	4000	7/4/05
trans-1,4-Dichloro-2-butene	BQL	21.9	4000	7/4/05
1,1-Dichloroethane	BQL	4.38	4000	7/4/05
1,1-Dichloroethene	BQL	4.38	4000	7/4/05
1,2-Dichloroethane	BQL	4.38	4000	7/4/05
cis-1,2-Dichloroethene	BQL	4.38	4000	7/4/05
trans-1,2-dichloroethene	BQL	4.38	4000	7/4/05
1,2-Dichloropropane	BQL	4.38	4000	7/4/05
1,3-Dichloropropane	BQL	4.38	4000	7/4/05
2,2-Dichloropropane	BQL	4.38	4000	7/4/05
1,1-Dichloropropene	BQL	4.38	4000	7/4/05
cis-1,3-Dichloropropene	BQL	4.38	4000	7/4/05
trans-1,3-Dichloropropene	BQL	4.38	4000	7/4/05
Dichlorodifluoromethane	BQL	21.9	4000	7/4/05
Diisopropyl ether (DIPE)	BQL	4.38	4000	7/4/05
Ethylbenzene	**37.8**	4.38	4000	7/4/05
Hexachlorobutadiene	BQL	4.38	4000	7/4/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: G1-5 (Dup)
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-14D
Lab Project ID: G161-2048
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 6/28/05 13:10
Date Received: 6/30/05
Matrix: Soil
%Solids: 74.8

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	21.9	4000	7/4/05
Iodomethane	BQL	4.38	4000	7/4/05
Isopropylbenzene	**8.27**	4.38	4000	7/4/05
4-Isopropyltoluene	BQL	4.38	4000	7/4/05
Methylene chloride	BQL	21.9	4000	7/4/05
4-Methyl-2-pentanone	BQL	21.9	4000	7/4/05
Methyl-tert-butyl ether (MTBE)	BQL	4.38	4000	7/4/05
Naphthalene	**47.8**	4.38	4000	7/4/05
n-Propyl benzene	**26.6**	4.38	4000	7/4/05
Styrene	BQL	4.38	4000	7/4/05
1,1,1,2-Tetrachloroethane	BQL	4.38	4000	7/4/05
1,1,2,2-Tetrachloroethane	BQL	4.38	4000	7/4/05
Tetrachloroethene	BQL	4.38	4000	7/4/05
Toluene	**29.1**	4.38	4000	7/4/05
1,2,3-Trichlorobenzene	BQL	4.38	4000	7/4/05
1,2,4-Trichlorobenzene	BQL	4.38	4000	7/4/05
Trichloroethene	BQL	4.38	4000	7/4/05
1,1,1-Trichloroethane	BQL	4.38	4000	7/4/05
1,1,2-Trichloroethane	BQL	4.38	4000	7/4/05
Trichlorofluoromethane	BQL	4.38	4000	7/4/05
1,2,3-Trichloropropane	BQL	4.38	4000	7/4/05
1,2,4-Trimethylbenzene	**192**	4.38	4000	7/4/05
1,3,5-Trimethylbenzene	**58.7**	4.38	4000	7/4/05
Vinyl chloride	BQL	4.38	4000	7/4/05
m-,p-Xylene	**167**	8.76	4000	7/4/05
o-Xylene	**72.6**	4.38	4000	7/4/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.00959	96
1,2-Dichloroethane-d4	0.01	0.0111	111
Toluene-d8	0.01	0.0104	104

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-25A
Lab Project ID: G161-2048
Report Basis: 0.0

Analyzed By: JTF
Date Collected: 06-29-2005 00:00
Date Received: 6/30/05
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/12/05
Benzene	BQL	0.00500	1	7/12/05
Bromobenzene	BQL	0.00500	1	7/12/05
Bromochloromethane	BQL	0.00500	1	7/12/05
Bromodichloromethane	BQL	0.00500	1	7/12/05
Bromoform	BQL	0.00500	1	7/12/05
Bromomethane	BQL	0.00500	1	7/12/05
2-Butanone	BQL	0.0250	1	7/12/05
n-Butylbenzene	BQL	0.00500	1	7/12/05
sec-Butylbenzene	BQL	0.00500	1	7/12/05
tert-Butylbenzene	BQL	0.00500	1	7/12/05
Carbon disulfide	BQL	0.00500	1	7/12/05
Carbon tetrachloride	BQL	0.00500	1	7/12/05
Chlorobenzene	BQL	0.00500	1	7/12/05
Chloroethane	BQL	0.00500	1	7/12/05
Chloroform	BQL	0.00500	1	7/12/05
Chloromethane	BQL	0.00500	1	7/12/05
2-Chlorotoluene	BQL	0.00500	1	7/12/05
4-Chlorotoluene	BQL	0.00500	1	7/12/05
Dibromochloromethane	BQL	0.00500	1	7/12/05
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/12/05
Dibromomethane	BQL	0.00500	1	7/12/05
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/12/05
1,2-Dichlorobenzene	BQL	0.00500	1	7/12/05
1,3-Dichlorobenzene	BQL	0.00500	1	7/12/05
1,4-Dichlorobenzene	BQL	0.00500	1	7/12/05
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/12/05
1,1-Dichloroethane	BQL	0.00500	1	7/12/05
1,1-Dichloroethene	BQL	0.00500	1	7/12/05
1,2-Dichloroethane	BQL	0.00500	1	7/12/05
cis-1,2-Dichloroethene	BQL	0.00500	1	7/12/05
trans-1,2-dichloroethene	BQL	0.00500	1	7/12/05
1,2-Dichloropropane	BQL	0.00500	1	7/12/05
1,3-Dichloropropane	BQL	0.00500	1	7/12/05
2,2-Dichloropropane	BQL	0.00500	1	7/12/05
1,1-Dichloropropene	BQL	0.00500	1	7/12/05
cis-1,3-Dichloropropene	BQL	0.00500	1	7/12/05
trans-1,3-Dichloropropene	BQL	0.00500	1	7/12/05
Dichlorodifluoromethane	BQL	0.00500	1	7/12/05
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/12/05
Ethylbenzene	BQL	0.00500	1	7/12/05
Hexachlorobutadiene	BQL	0.00500	1	7/12/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Trip Blank
Client Project ID: Gaddy Property
Lab Sample ID G161-2048-25A
Lab Project ID: G161-2048
Report Basis: 0.0

Analyzed By: JTF
Date Collected: 06-29-2005 00:00
Date Received: 6/30/05
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00500	1	7/12/05
Iodomethane	BQL	0.00500	1	7/12/05
Isopropylbenzene	BQL	0.00500	1	7/12/05
4-Isopropyltoluene	BQL	0.00500	1	7/12/05
Methylene chloride	BQL	0.0200	1	7/12/05
4-Methyl-2-pentanone	BQL	0.00500	1	7/12/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/12/05
Naphthalene	BQL	0.00500	1	7/12/05
n-Propyl benzene	BQL	0.00500	1	7/12/05
Styrene	BQL	0.00500	1	7/12/05
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/12/05
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/12/05
Tetrachloroethene	BQL	0.00500	1	7/12/05
Toluene	BQL	0.00500	1	7/12/05
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/12/05
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/12/05
Trichloroethene	BQL	0.00500	1	7/12/05
1,1,1-Trichloroethane	BQL	0.00500	1	7/12/05
1,1,2-Trichloroethane	BQL	0.00500	1	7/12/05
Trichlorofluoromethane	BQL	0.00500	1	7/12/05
1,2,3-Trichloropropane	BQL	0.00500	1	7/12/05
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/12/05
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/12/05
Vinyl chloride	BQL	0.00500	1	7/12/05
m-,p-Xylene	BQL	0.0100	1	7/12/05
o-Xylene	BQL	0.00500	1	7/12/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0525	105
1,2-Dichloroethane-d4	0.05	0.0684	137
Toluene-d8	0.05	0.05	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-1H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:10
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 77.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.794	2	7/13/2005
Acenaphthylene	BQL	0.794	2	7/13/2005
Anthracene	BQL	0.794	2	7/13/2005
Benzo[a]anthracene	BQL	0.794	2	7/13/2005
Benzo[a]pyrene	BQL	0.794	2	7/13/2005
Benzo[b]fluoranthene	BQL	0.794	2	7/13/2005
Benzo[g,h,i]perylene	BQL	0.794	2	7/13/2005
Benzo[k]fluoranthene	BQL	0.794	2	7/13/2005
Bis(2-chloroethoxy)methane	BQL	0.794	2	7/13/2005
Bis(2-chloroethyl)ether	BQL	0.794	2	7/13/2005
Bis(2-chloroisopropyl)ether	BQL	0.794	2	7/13/2005
Bis(2-ethylhexyl)phthalate	BQL	0.794	2	7/13/2005
4-bromophenyl phenyl ether	BQL	0.794	2	7/13/2005
Butylbenzylphthalate	BQL	0.794	2	7/13/2005
2-Chloronaphthalene	BQL	0.794	2	7/13/2005
4-Chloroaniline	BQL	3.97	2	7/13/2005
4-Chlorophenyl phenyl ether	BQL	0.794	2	7/13/2005
Chrysene	BQL	0.794	2	7/13/2005
Dibenzo[a,h]anthracene	BQL	0.794	2	7/13/2005
Dibenzofuran	BQL	0.794	2	7/13/2005
Di-n-Butylphthalate	BQL	0.794	2	7/13/2005
1,2-Dichlorobenzene	BQL	0.794	2	7/13/2005
1,3-Dichlorobenzene	BQL	0.794	2	7/13/2005
1,4-Dichlorobenzene	BQL	0.794	2	7/13/2005
3,3'-Dichlorobenzidine	BQL	1.59	2	7/13/2005
Diethylphthalate	BQL	0.794	2	7/13/2005
Dimethylphthalate	BQL	0.794	2	7/13/2005
Di-n-octylphthalate	BQL	0.794	2	7/13/2005
2,4-Dinitrotoluene	BQL	0.794	2	7/13/2005
2,6-Dinitrotoluene	BQL	0.794	2	7/13/2005
Diphenylamine *	BQL	0.794	2	7/13/2005
Fluoranthene	BQL	0.794	2	7/13/2005
Fluorene	BQL	0.794	2	7/13/2005
Hexachlorobenzene	BQL	0.794	2	7/13/2005
Hexachlorobutadiene	BQL	0.794	2	7/13/2005
Hexachlorocyclopentadiene	BQL	1.59	2	7/13/2005
Hexachloroethane	BQL	0.794	2	7/13/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.794	2	7/13/2005
Isophorone	BQL	0.794	2	7/13/2005
2-Methylnaphthalene	33.8 - J	0.794	2	7/13/2005
Naphthalene	30.1 - J	0.794	2	7/13/2005
2-Nitroaniline	BQL	0.794	2	7/13/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-1H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:10
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 77.11

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	3.97	2	7/13/2005
4-Nitroaniline	BQL	3.97	2	7/13/2005
Nitrobenzene	BQL	0.794	2	7/13/2005
N-Nitrosodi-n-propylamine	BQL	0.794	2	7/13/2005
Phenanthrene	BQL	0.794	2	7/13/2005
Pyrene	BQL	0.794	2	7/13/2005
1,2,4-Trichlorobenzene	BQL	0 794	2	7/13/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	4.8	95
Nitrobenzene-d5	10	8.3	167 #
4-Terphenyl-d14	10	5.3	106

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.
# = Elevated surrogate recovery due to co-eluting non-target matrix interferences.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-2H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:15
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 74.94

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.398	1	7/8/2005
Acenaphthylene	BQL	0.398	1	7/8/2005
Anthracene	BQL	0.398	1	7/8/2005
Benzo[a]anthracene	BQL	0.398	1	7/8/2005
Benzo[a]pyrene	BQL	0.398	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.398	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.398	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.398	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.398	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.398	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.398	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.398	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.398	1	7/8/2005
Butylbenzylphthalate	BQL	0.398	1	7/8/2005
2-Chloronaphthalene	BQL	0.398	1	7/8/2005
4-Chloroaniline	BQL	1.99	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.398	1	7/8/2005
Chrysene	BQL	0.398	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.398	1	7/8/2005
Dibenzofuran	BQL	0.398	1	7/8/2005
Di-n-Butylphthalate	BQL	0.398	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.398	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.398	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.398	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.795	1	7/8/2005
Diethylphthalate	BQL	0.398	1	7/8/2005
Dimethylphthalate	BQL	0.398	1	7/8/2005
Di-n-octylphthalate	BQL	0.398	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.398	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.398	1	7/8/2005
Diphenylamine *	BQL	0.398	1	7/8/2005
Fluoranthene	BQL	0.398	1	7/8/2005
Fluorene	BQL	0.398	1	7/8/2005
Hexachlorobenzene	BQL	0.398	1	7/8/2005
Hexachlorobutadiene	BQL	0.398	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.795	1	7/8/2005
Hexachloroethane	BQL	0.398	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.398	1	7/8/2005
Isophorone	BQL	0.398	1	7/8/2005
2-Methylnaphthalene	**12.4**	0.398	1	7/8/2005
Naphthalene	**9.72**	0.398	1	7/8/2005
2-Nitroaniline	BQL	0.398	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-2H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:15
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 74.94

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.99	1	7/8/2005
4-Nitroaniline	BQL	1.99	1	7/8/2005
Nitrobenzene	BQL	0.398	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.398	1	7/8/2005
Phenanthrene	BQL	0.398	1	7/8/2005
Pyrene	BQL	0.398	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.398	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
Nitrobenzene-d5	10	11.1	111
4-Terphenyl-d14	10	8.4	84

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-15
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-3H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:20
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 76.44

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.405	1	7/8/2005
Acenaphthylene	BQL	0.405	1	7/8/2005
Anthracene	BQL	0.405	1	7/8/2005
Benzo[a]anthracene	BQL	0.405	1	7/8/2005
Benzo[a]pyrene	BQL	0.405	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.405	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.405	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.405	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.405	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.405	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.405	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.405	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.405	1	7/8/2005
Butylbenzylphthalate	BQL	0.405	1	7/8/2005
2-Chloronaphthalene	BQL	0.405	1	7/8/2005
4-Chloroaniline	BQL	2.03	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.405	1	7/8/2005
Chrysene	BQL	0.405	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.405	1	7/8/2005
Dibenzofuran	BQL	0.405	1	7/8/2005
Di-n-Butylphthalate	BQL	0.405	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.405	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.405	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.405	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.810	1	7/8/2005
Diethylphthalate	BQL	0.405	1	7/8/2005
Dimethylphthalate	BQL	0.405	1	7/8/2005
Di-n-octylphthalate	BQL	0.405	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.405	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.405	1	7/8/2005
Diphenylamine *	BQL	0.405	1	7/8/2005
Fluoranthene	BQL	0.405	1	7/8/2005
Fluorene	BQL	0.405	1	7/8/2005
Hexachlorobenzene	BQL	0.405	1	7/8/2005
Hexachlorobutadiene	BQL	0.405	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.810	1	7/8/2005
Hexachloroethane	BQL	0.405	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.405	1	7/8/2005
Isophorone	BQL	0.405	1	7/8/2005
2-Methylnaphthalene	BQL	0.405	1	7/8/2005
Naphthalene	BQL	0.405	1	7/8/2005
2-Nitroaniline	BQL	0.405	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-15
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-3H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:20
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 76.44

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.03	1	7/8/2005
4-Nitroaniline	BQL	2.03	1	7/8/2005
Nitrobenzene	BQL	0.405	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.405	1	7/8/2005
Phenanthrene	BQL	0.405	1	7/8/2005
Pyrene	BQL	0.405	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.405	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
Nitrobenzene-d5	10	9.9	99
4-Terphenyl-d14	10	8.9	89

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-20
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-4H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:25
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 79.61

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.390	1	7/8/2005
Acenaphthylene	BQL	0.390	1	7/8/2005
Anthracene	BQL	0.390	1	7/8/2005
Benzo[a]anthracene	BQL	0.390	1	7/8/2005
Benzo[a]pyrene	BQL	0.390	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.390	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.390	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.390	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.390	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.390	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.390	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.390	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.390	1	7/8/2005
Butylbenzylphthalate	BQL	0.390	1	7/8/2005
2-Chloronaphthalene	BQL	0.390	1	7/8/2005
4-Chloroaniline	BQL	1.95	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.390	1	7/8/2005
Chrysene	BQL	0.390	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.390	1	7/8/2005
Dibenzofuran	BQL	0.390	1	7/8/2005
Di-n-Butylphthalate	BQL	0.390	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.390	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.390	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.390	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.779	1	7/8/2005
Diethylphthalate	BQL	0.390	1	7/8/2005
Dimethylphthalate	BQL	0.390	1	7/8/2005
Di-n-octylphthalate	BQL	0.390	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.390	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.390	1	7/8/2005
Diphenylamine *	BQL	0.390	1	7/8/2005
Fluoranthene	BQL	0.390	1	7/8/2005
Fluorene	BQL	0.390	1	7/8/2005
Hexachlorobenzene	BQL	0.390	1	7/8/2005
Hexachlorobutadiene	BQL	0.390	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.779	1	7/8/2005
Hexachloroethane	BQL	0.390	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.390	1	7/8/2005
Isophorone	BQL	0.390	1	7/8/2005
2-Methylnaphthalene	BQL	0.390	1	7/8/2005
Naphthalene	BQL	0.390	1	7/8/2005
2-Nitroaniline	BQL	0.390	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-20
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-4H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:25
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 79.61

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.95	1	7/8/2005
4-Nitroaniline	BQL	1.95	1	7/8/2005
Nitrobenzene	BQL	0.390	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.390	1	7/8/2005
Phenanthrene	BQL	0.390	1	7/8/2005
Pyrene	BQL	0.390	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.390	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.5	95
Nitrobenzene-d5	10	9.8	98
4-Terphenyl-d14	10	9.9	99

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G2-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-5H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:48
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 88.45

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.321	1	7/8/2005
Acenaphthylene	BQL	0.321	1	7/8/2005
Anthracene	BQL	0.321	1	7/8/2005
Benzo[a]anthracene	BQL	0.321	1	7/8/2005
Benzo[a]pyrene	BQL	0.321	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.321	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.321	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.321	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.321	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.321	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.321	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.321	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.321	1	7/8/2005
Butylbenzylphthalate	BQL	0.321	1	7/8/2005
2-Chloronaphthalene	BQL	0.321	1	7/8/2005
4-Chloroaniline	BQL	1.61	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.321	1	7/8/2005
Chrysene	BQL	0.321	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.321	1	7/8/2005
Dibenzofuran	BQL	0.321	1	7/8/2005
Di-n-Butylphthalate	BQL	0.321	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.321	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.321	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.321	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.642	1	7/8/2005
Diethylphthalate	BQL	0.321	1	7/8/2005
Dimethylphthalate	BQL	0.321	1	7/8/2005
Di-n-octylphthalate	BQL	0.321	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.321	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.321	1	7/8/2005
Diphenylamine *	BQL	0.321	1	7/8/2005
Fluoranthene	BQL	0.321	1	7/8/2005
Fluorene	BQL	0.321	1	7/8/2005
Hexachlorobenzene	BQL	0.321	1	7/8/2005
Hexachlorobutadiene	BQL	0.321	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.642	1	7/8/2005
Hexachloroethane	BQL	0.321	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.321	1	7/8/2005
Isophorone	BQL	0.321	1	7/8/2005
2-Methylnaphthalene	BQL	0.321	1	7/8/2005
Naphthalene	BQL	0.321	1	7/8/2005
2-Nitroaniline	BQL	0.321	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G2-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-5H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:48
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 88.45

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.61	1	7/8/2005
4-Nitroaniline	BQL	1.61	1	7/8/2005
Nitrobenzene	BQL	0.321	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.321	1	7/8/2005
Phenanthrene	BQL	0.321	1	7/8/2005
Pyrene	BQL	0.321	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.321	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.2	92
Nitrobenzene-d5	10	9.3	93
4-Terphenyl-d14	10	9.2	92

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G2-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-6H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:52
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 83.42

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.365	1	7/8/2005
Acenaphthylene	BQL	0.365	1	7/8/2005
Anthracene	BQL	0.365	1	7/8/2005
Benzo[a]anthracene	BQL	0.365	1	7/8/2005
Benzo[a]pyrene	BQL	0.365	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.365	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.365	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.365	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.365	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.365	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.365	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.365	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.365	1	7/8/2005
Butylbenzylphthalate	BQL	0.365	1	7/8/2005
2-Chloronaphthalene	BQL	0.365	1	7/8/2005
4-Chloroaniline	BQL	1.83	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.365	1	7/8/2005
Chrysene	BQL	0.365	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.365	1	7/8/2005
Dibenzofuran	BQL	0.365	1	7/8/2005
Di-n-Butylphthalate	BQL	0.365	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.365	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.365	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.365	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.730	1	7/8/2005
Diethylphthalate	BQL	0.365	1	7/8/2005
Dimethylphthalate	BQL	0.365	1	7/8/2005
Di-n-octylphthalate	BQL	0.365	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.365	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.365	1	7/8/2005
Diphenylamine *	BQL	0.365	1	7/8/2005
Fluoranthene	BQL	0.365	1	7/8/2005
Fluorene	BQL	0.365	1	7/8/2005
Hexachlorobenzene	BQL	0.365	1	7/8/2005
Hexachlorobutadiene	BQL	0.365	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.730	1	7/8/2005
Hexachloroethane	BQL	0.365	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.365	1	7/8/2005
Isophorone	BQL	0.365	1	7/8/2005
2-Methylnaphthalene	BQL	0.365	1	7/8/2005
Naphthalene	BQL	0.365	1	7/8/2005
2-Nitroaniline	BQL	0.365	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G2-10
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-6H
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:52
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 83.42

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.83	1	7/8/2005
4-Nitroaniline	BQL	1.83	1	7/8/2005
Nitrobenzene	BQL	0.365	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.365	1	7/8/2005
Phenanthrene	BQL	0.365	1	7/8/2005
Pyrene	BQL	0.365	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.365	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.3	93
Nitrobenzene-d5	10	9.6	96
4-Terphenyl-d14	10	9.2	92

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-5 (Dup)
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-14I
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:10
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 74.77

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.399	1	7/8/2005
Acenaphthylene	BQL	0.399	1	7/8/2005
Anthracene	BQL	0.399	1	7/8/2005
Benzo[a]anthracene	BQL	0.399	1	7/8/2005
Benzo[a]pyrene	BQL	0.399	1	7/8/2005
Benzo[b]fluoranthene	BQL	0.399	1	7/8/2005
Benzo[g,h,i]perylene	BQL	0.399	1	7/8/2005
Benzo[k]fluoranthene	BQL	0.399	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	0.399	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	0.399	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	0.399	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	0.399	1	7/8/2005
4-bromophenyl phenyl ether	BQL	0.399	1	7/8/2005
Butylbenzylphthalate	BQL	0.399	1	7/8/2005
2-Chloronaphthalene	BQL	0.399	1	7/8/2005
4-Chloroaniline	BQL	2.00	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	0.399	1	7/8/2005
Chrysene	BQL	0.399	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	0.399	1	7/8/2005
Dibenzofuran	BQL	0.399	1	7/8/2005
Di-n-Butylphthalate	BQL	0.399	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.399	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.399	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.399	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	0.798	1	7/8/2005
Diethylphthalate	BQL	0.399	1	7/8/2005
Dimethylphthalate	BQL	0.399	1	7/8/2005
Di-n-octylphthalate	BQL	0.399	1	7/8/2005
2,4-Dinitrotoluene	BQL	0.399	1	7/8/2005
2,6-Dinitrotoluene	BQL	0.399	1	7/8/2005
Diphenylamine *	BQL	0.399	1	7/8/2005
Fluoranthene	BQL	0.399	1	7/8/2005
Fluorene	BQL	0.399	1	7/8/2005
Hexachlorobenzene	BQL	0.399	1	7/8/2005
Hexachlorobutadiene	BQL	0.399	1	7/8/2005
Hexachlorocyclopentadiene	BQL	0.798	1	7/8/2005
Hexachloroethane	BQL	0.399	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.399	1	7/8/2005
Isophorone	BQL	0.399	1	7/8/2005
2-Methylnaphthalene	14.8 – J	0.399	1	7/8/2005
Naphthalene	13.3 – J	0.399	1	7/8/2005
2-Nitroaniline	BQL	0.399	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: G1-5 (Dup)
Client Project ID: Gaddy Property
Lab Sample ID: G161-2048-14I
Lab Project ID: G161-2048
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 6/28/2005 13:10
Date Received: 6/30/2005
Date Extracted: 7/6/2005
Matrix: Soil
% Solids: 74.77

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.00	1	7/8/2005
4-Nitroaniline	BQL	2.00	1	7/8/2005
Nitrobenzene	BQL	0.399	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	0.399	1	7/8/2005
Phenanthrene	BQL	0.399	1	7/8/2005
Pyrene	BQL	0.399	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.399	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.8	78
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	7.9	79

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/11/05
Dry Weight	77
Dilution Factor	20
C_5-C_8 Aliphatics**	< 20 (mg/Kg)
C_9-C_{12} Aliphatics**	59 (mg/Kg) J
C_9-C_{10} Aromatics**	71 (mg/Kg) J
Surrogate % Recovery - PID	150***
Surrogate % Recovery - FID	260***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2048-1e

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-10
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/11/05
Dry Weight	75
Dilution Factor	20
C_5-C_8 Aliphatics**	38 (mg/Kg) – J
C_9-C_{12} Aliphatics**	50 (mg/Kg) – J
C_9-C_{10} Aromatics**	51 (mg/Kg) – J
Surrogate % Recovery - PID	150***
Surrogate % Recovery - FID	260***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards

***= High surrogate recovery due to matrix interference

Lab Info: g161-2048-2e

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-15
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/12/05
Dry Weight	76
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	12 (mg/Kg)
C_9-C_{10} Aromatics**	10 (mg/Kg)
Surrogate % Recovery - PID	89
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2048-3e

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-20
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/06/05
Dry Weight	80
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	110
Surrogate % Recovery - FID	94

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G161-2048-4A

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G2-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/06/05
Dry Weight	88
Dilution Factor	1
C_5-C_8 Aliphatics**	12 (mg/Kg)
C_9-C_{12} Aliphatics**	15 (mg/Kg)
C_9-C_{10} Aromatics**	13 (mg/Kg)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G161-2048-5D

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-5 (Dup)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	06/28/05
Date Analyzed	07/11/05
Dry Weight	75
Dilution Factor	20
C_5-C_8 Aliphatics**	24 (mg/Kg) — J
C_9-C_{12} Aliphatics**	38 (mg/Kg) — J
C_9-C_{10} Aromatics**	40 (mg/Kg) — J
Surrogate % Recovery - PID	130
Surrogate % Recovery - FID	220***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: G161-2048-14D

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-5
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	77.1
Dilution Factor	1:4
C_9-C_{18} Aliphatics*	800 (mg/Kg) -- J
C_{19}-C_{36} Aliphatics*	15 (mg/Kg)
C_{11}-C_{22} Aromatics*	360 (mg/Kg) -- J
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	100
Fractionation Surrogate 1 % Recovery	110

Comments:

* = Excludes any surrogates or Internal standards

Lab info: G161-2048-1G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-10
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	74.9
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	430 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	190 (mg/Kg)
Aliphatic Surrogate % Recovery	96
Aromatic Surrogate % Recovery	100
Fractionation Surrogate 1 % Recovery	120

Comments:

* = Excludes any surrogates or internal standards

Lab Info: G161-2048-2G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-15
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/05/05
Date Analyzed	07/07/05
Dry Weight	76.4
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	100

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2048-3G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-20
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/05/05
Date Analyzed	07/07/05
Dry Weight	79.6
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	110

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2048-4G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G2-5
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/05/05
Date Analyzed	07/07/05
Dry Weight	88.5
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	48 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	120
Aromatic Surrogate % Recovery	110
Fractionation Surrogate 1 % Recovery	110

Comments:

* = Excludes any surrogates or internal standards

Lab Info: G161-2048-5G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G2-10
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/05/05
Date Analyzed	07/07/05
Dry Weight	83.4
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	22 (mg/Kg)
C_{19}-C_{36} Aliphatics*	34 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	110
Aromatic Surrogate % Recovery	100
Fractionation Surrogate 1 % Recovery	120

Comments:

* = Excludes any surrogates or internal standards

Lab Info: G161-2048-6G

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	G1-5 (Dup)
Sample Matrix	Soil
Date Collected	06/28/05
Date Received	06/30/05
Date Extracted	07/05/05
Date Analyzed	07/11/05
Dry Weight	74.8
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	110 (mg/Kg) – J
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	65 (mg/Kg) – J
Aliphatic Surrogate % Recovery	92
Aromatic Surrogate % Recovery	70
Fractionation Surrogate 1 % Recovery	56

Comments:

* = Excludes any surrogates or internal standards.

Lab Info: G161-2048-14G

Reviewed By: [illegible]

Results for Metals

Client Sample ID:	G6-1	Analyzed By:	PSW
Client Project ID:	Gaddy Property	Date Collected:	6/29/2005 09:52
Lab Sample ID:	G161-2048-16	Date Received:	6/30/05
Lab Project ID:	G161-2048	Matrix:	SOIL
Batch ID:	3300 3282	Solids	92.69
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**6.91**	0 899	1	MG/KG	6010B	7/26/05
Barium	**67.2**	8.99	1	MG/KG	6010B	7/26/05
Cadmium	BQL	0.899	1	MG/KG	6010B	7/26/05
Chromium	**30.5** – J	0.899	1	MG/KG	6010B	7/26/05
Lead	**50.0** – J	0.899	1	MG/KG	6010B	7/26/05
Mercury	**0.243**	0.0207	1	MG/KG	7471	7/21/05
Selenium	BQL	1.80	1	MG/KG	6010B	7/26/05
Silver	BQL	0.899	1	MG/KG	6010B	7/26/05

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

Reviewed By: MET_LIMS_3 2

Results for Metals

Client Sample ID:	G8-1	Analyzed By:	PSW
Client Project ID:	Gaddy Property	Date Collected:	6/29/2005 10:04
Lab Sample ID:	G161-2048-19	Date Received:	6/30/05
Lab Project ID:	G161-2048	Matrix:	SOIL
Batch ID:	3300 3282	Solids	89.91
Report Basis:	Dry		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	**2.28**	1.01	1	MG/KG	6010B	7/26/05
Barium	**107**	10.1	1	MG/KG	6010B	7/26/05
Cadmium	BQL	1.01	1	MG/KG	6010B	7/26/05
Chromium	**14.6**	1.01	1	MG/KG	6010B	7/26/05
Lead	**209**	1.01	1	MG/KG	6010B	7/26/05
Mercury	**0.339**	0.0195	1	MG/KG	7471	7/21/05
Selenium	BQL	2.02	1	MG/KG	6010B	7/26/05
Silver	BQL	1.01	1	MG/KG	6010B	7/26/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL

Reviewed By: _____
MET_LIMS_3.2

Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID:	G5-4	Analyzed By:	DCS
Client Project ID:	Gaddy Property	Date Collected:	6/29/2005 9:49
Lab Sample ID:	G161-2048-15	Date Received:	6/30/2005
Lab Project ID:	G161-2048	Matrix:	Soil
Report Basis:	Dry Weight	Solids	89.90

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.67	5030	1	07/05/05
Diesel Range Organics	BQL	6.89	3545	1	07/07/05

Surrogate Spike Results	Spike Added	Spike Result	Percent Recovery
BFB	50	47.4	94.8
COD	40	40.1	100
OTP	40	45.5	114

Comments:

Reviewed By:

TPH_LIMS_v1.82.XLS

Results for Total Petroleum Hydrocarbons
by **GC/FID 8015**

Client Sample ID:	G6-1	Analyzed By:	DCS
Client Project ID:	Gaddy Property	Date Collected:	6/29/2005 9:52
Lab Sample ID:	G161-2048-16	Date Received:	6/30/2005
Lab Project ID:	G161-2048	Matrix:	Soil
Report Basis:	Dry Weight	Solids	92 69

Analyte	Result MG/KG	Report Limit MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6 47	5030	1	07/05/05
Diesel Range Organics	313 - J	6.46	3545	1	07/07/05

Surrogate Spike Results	Spike Added	Spike Result	Percent Recovery	
BFB	50	47 2	94 4	
COD	40	81.9	205	#
OTP	40	56 3	141	#

Comments:

Reviewed By: JW

TPH_LIMS_v1 82 XLS

Results for Oil and Grease

Client Sample ID:	G5-4	Date Analyzed:	7/5/05
Client Project ID:	Gaddy Property	Analyzed By:	eaw
Lab Sample ID:	G161-2048-15B	Date Collected:	6/29/05 9:49
Lab Project ID:	G161-2048	Date Received:	6/30/05
Matrix:	Soil	Solids:	89.90

Parameter	Method	Quantitation Limit MG/KG	Result MG/KG
Oil & Grease	9071	33.7	BQL

Comments:
Silica Gel Clean-up performed.
BQL = Below Quantitation Limit
All soils are corrected for percent solids.

Reviewed By: _____
9071_LIMS_v1.31

Results for Oil and Grease

Client Sample ID:	G6-1	Date Analyzed:	7/5/05
Client Project ID:	Gaddy Property	Analyzed By:	eaw
Lab Sample ID:	G161-2048-16B	Date Collected:	6/29/05 9:52
Lab Project ID:	G161-2048	Date Received:	6/30/05
Matrix:	Soil	Solids:	92.69

Parameter	Method	Quantitation Limit MG/KG	Result MG/KG
Oil & Grease	9071	32.9	**1050**

Comments:
Silica Gel Clean-up performed.
BQL = Below Quantitation Limit
All soils are corrected for percent solids.

Reviewed By: _____
9071_LIMS_v1.31

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47804
Page 1 of 1

Client: ECS, Ltd. Project ID: Gaddy Property Date: 7/12/05 Report To: jricks@ecsltd.
Address: 6909 International Dr, 203 Contact: Jason Ricks Turnaround: Standard
Address: Greensboro, NC 27409 Phone: (336) 856-7150 Job Number: G-9506
Quote #: ~~15619~~ SR1842 Fax: 856-7160 P.O. Number: Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	HCL	HNO3		Analyses: 601/602	504.1 - EDB	EPH	VPH	625 BN + 10 TICS	3030C Lead for				Comments: Please specify any special reporting requirements
GMW-4	7/12/05	10:45	GW	X	X	X		X	X	X	X	X	X				City of Greensboro Project
GMW-5		9:45		X	X	X		X	X	X	X	X	X				
Dup		-			X			X									
Equip Blank		11:00			X			X									
																	G161-2069

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/12/05	3:00	[signature]	7/13/05	1000	2.5°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

Results for Organics
by EPA 504

Client Sample ID:	GMW-4	Analyzed By:	CLP
Client Project ID:	Gaddy Property	Date Collected:	7/12/05 10:45
Lab Sample ID:	G161-2069-1O	Date Received:	7/13/05 10:00
Lab Project ID:	G161-2069	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0196	1	7/19/05

Reviewed By: _____

8011_LIMS_1 2

Results for Organics
by EPA 504

Client Sample ID:	GMW-5	Analyzed By:	CLP
Client Project ID:	Gaddy Property	Date Collected:	7/12/05 9:45
Lab Sample ID:	G161-2069-2R	Date Received:	7/13/05 10:00
Lab Project ID:	G161-2069	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0196	1	7/19/05

Reviewed By: RWP

6011_LIMS_12

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2069

Client Project: Gaddy Property

Dear Mr. Ricks:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

7/25/05

Laboratory Director Date
J. Patrick Weaver

CASE NARRATIVE

Date: September 23, 2005

ECS Project ID: Gaddy Property
Paradigm Analytical ID: G161-2069

Two water samples, a duplicate, and an equipment blank were received July 13 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

All extractions and analyses were completed within holding time.

Following is a discussion of quality control results by parameter.

Volatiles by 601/602

All reported target compounds were confirmed by GC/MS screening.

All surrogates passed acceptance limits.

The blanks were free of target analytes.

The MS/MSD and LCS passed all recovery criteria.

504.1

The blank was free of the target analyte.

The MS/MSD and LCS passed all recovery criteria.

VPH

Sample GMW-1 had a surrogate failure due to matrix interference. The other samples passed acceptance criteria.

The blank was free of the target analyte.

The MS/MSD pair passed all acceptance limits.

The LCS passed acceptance limits.

EPH

The samples passed surrogate spike limits.

The blank was free of the target analyte.

The MS/MSD pair passed all acceptance limits.

The LCS passed acceptance limits.

625BN

The samples passed surrogate spike limits.

The blank was free of the target analyte.

There were some failures in the MS/MSD pair.

There were some recovery failures in the LCS.

Lead with 3030C preparation

The extractions were completed within 72 hours of sample collection.

The blank was free of the target analyte.

There were some failures in the MS/MSD pair.

There were some recovery failures in the LCS.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 47804

Page 1 **of** 1

Client: ECS Ltd. **Project ID:** Goddy Property **Date:** 7/12/05 **Report To:** jricks@ecslimited.
Address: 6909 International Dr, 203 **Contact:** Jason Ricks **Turnaround:** Standard
Address: Greensboro, NC 27409 **Phone:** (336) 856-7150 **Job Number:** G-9506
Quote #: ~~16449~~ SR 1842 **Fax:** 856-7160 **P.O. Number:** **Invoice To:**

Sample ID	Date	Time	Matrix	Preservatives: None	HCL	HNO3		Analyses: 601/602	504.1 - EDB	EPH	VPH	625 BNA + 10 TICS	3030C for Lead					Comments: Please specify any special reporting requirements
GMW-4	7/12/05	10:45	GW	X	X	X		X	X	X	X	X	X					City of Greensboro Project
GMW-5	↓	9:45	↓	X	X	X		X	X	X	X	X	X					
Dup	↓	–	↓		X			X										
Equip Blank	↓	11:00	↓		X			X										
																		G161-2069

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/12/05	3:00	[signature]	7/13/05	1000	2.5°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

Results for Volatiles
by GC 601

Client Sample ID: GMW-4
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-1A
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 10:45
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/16/2005
Bromoform	BQL	2.00	1	7/16/2005
Bromomethane	BQL	1.00	1	7/16/2005
Carbon tetrachloride	BQL	1.00	1	7/16/2005
Chlorobenzene	BQL	1.00	1	7/16/2005
Chloroethane	BQL	1.00	1	7/16/2005
Chloroform	BQL	1.00	1	7/16/2005
Chloromethane	BQL	1.00	1	7/16/2005
Dibromochloromethane	BQL	1.00	1	7/16/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/16/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,1-Dichloroethane	BQL	1.00	1	7/16/2005
1,2-Dichloroethane	BQL	1.00	1	7/16/2005
1,1-Dichloroethene	BQL	1.00	1	7/16/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
1,2-Dichloropropane	BQL	1.00	1	7/16/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
Methylene Chloride	BQL	5.00	1	7/16/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/16/2005
Tetrachloroethene	BQL	1.00	1	7/16/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/16/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/16/2005
Trichloroethene	BQL	1.00	1	7/16/2005
Trichlorofluoromethane	BQL	1.00	1	7/16/2005
Vinyl Chloride	BQL	1.00	1	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	36.7	91.7

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: GMW-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-2B
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 9:45
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/16/2005
Bromoform	BQL	2.00	1	7/16/2005
Bromomethane	BQL	1.00	1	7/16/2005
Carbon tetrachloride	BQL	1.00	1	7/16/2005
Chlorobenzene	BQL	1.00	1	7/16/2005
Chloroethane	BQL	1.00	1	7/16/2005
Chloroform	BQL	1.00	1	7/16/2005
Chloromethane	BQL	1.00	1	7/16/2005
Dibromochloromethane	BQL	1.00	1	7/16/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/16/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,1-Dichloroethane	**1.12**	1.00	1	7/16/2005
1,2-Dichloroethane	BQL	1.00	1	7/16/2005
1,1-Dichloroethene	BQL	1.00	1	7/16/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
1,2-Dichloropropane	BQL	1.00	1	7/16/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
Methylene Chloride	BQL	5.00	1	7/16/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/16/2005
Tetrachloroethene	BQL	1.00	1	7/16/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/16/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/16/2005
Trichloroethene	BQL	1.00	1	7/16/2005
Trichlorofluoromethane	BQL	1.00	1	7/16/2005
Vinyl Chloride	BQL	1.00	1	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	38.7	96.7

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: Dup
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-3B
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 0:00
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/16/2005
Bromoform	BQL	2.00	1	7/16/2005
Bromomethane	BQL	1.00	1	7/16/2005
Carbon tetrachloride	BQL	1.00	1	7/16/2005
Chlorobenzene	BQL	1.00	1	7/16/2005
Chloroethane	BQL	1.00	1	7/16/2005
Chloroform	BQL	1.00	1	7/16/2005
Chloromethane	BQL	1.00	1	7/16/2005
Dibromochloromethane	BQL	1.00	1	7/16/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/16/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,1-Dichloroethane	**2.00**	1.00	1	7/16/2005
1,2-Dichloroethane	BQL	1.00	1	7/16/2005
1,1-Dichloroethene	BQL	1.00	1	7/16/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
1,2-Dichloropropane	BQL	1.00	1	7/16/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
Methylene Chloride	BQL	5.00	1	7/16/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/16/2005
Tetrachloroethene	BQL	1.00	1	7/16/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/16/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/16/2005
Trichloroethene	BQL	1.00	1	7/16/2005
Trichlorofluoromethane	BQL	1.00	1	7/16/2005
Vinyl Chloride	BQL	1.00	1	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	36.7	91.7

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: Equip Blank
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-4A
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 11:00
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/15/2005
Bromoform	BQL	2.00	1	7/15/2005
Bromomethane	BQL	1.00	1	7/15/2005
Carbon tetrachloride	BQL	1.00	1	7/15/2005
Chlorobenzene	BQL	1.00	1	7/15/2005
Chloroethane	BQL	1.00	1	7/15/2005
Chloroform	BQL	1.00	1	7/15/2005
Chloromethane	BQL	1.00	1	7/15/2005
Dibromochloromethane	BQL	1.00	1	7/15/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,1-Dichloroethane	BQL	1.00	1	7/15/2005
1,2-Dichloroethane	BQL	1.00	1	7/15/2005
1,1-Dichloroethene	BQL	1.00	1	7/15/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/15/2005
1,2-Dichloropropane	BQL	1.00	1	7/15/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2005
Methylene Chloride	BQL	5.00	1	7/15/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2005
Tetrachloroethene	BQL	1.00	1	7/15/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2005
Trichloroethene	BQL	1.00	1	7/15/2005
Trichlorofluoromethane	BQL	1.00	1	7/15/2005
Vinyl Chloride	BQL	1.00	1	7/15/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	38.4	96

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071505B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/15/2005
Bromoform	BQL	2.00	1	7/15/2005
Bromomethane	BQL	1.00	1	7/15/2005
Carbon tetrachloride	BQL	1.00	1	7/15/2005
Chlorobenzene	BQL	1.00	1	7/15/2005
Chloroethane	BQL	1.00	1	7/15/2005
Chloroform	BQL	1.00	1	7/15/2005
Chloromethane	BQL	1.00	1	7/15/2005
Dibromochloromethane	BQL	1.00	1	7/15/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/15/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/15/2005
1,1-Dichloroethane	BQL	1.00	1	7/15/2005
1,2-Dichloroethane	BQL	1.00	1	7/15/2005
1,1-Dichloroethene	BQL	1.00	1	7/15/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/15/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/15/2005
1,2-Dichloropropane	BQL	1.00	1	7/15/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/15/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/15/2005
Methylene Chloride	BQL	5.00	1	7/15/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/15/2005
Tetrachloroethene	BQL	1.00	1	7/15/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/15/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/15/2005
Trichloroethene	BQL	1.00	1	7/15/2005
Trichlorofluoromethane	BQL	1.00	1	7/15/2005
Vinyl Chloride	BQL	1.00	1	7/15/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 601

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071605A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	7/16/2005
Bromoform	BQL	2.00	1	7/16/2005
Bromomethane	BQL	1.00	1	7/16/2005
Carbon tetrachloride	BQL	1.00	1	7/16/2005
Chlorobenzene	BQL	1.00	1	7/16/2005
Chloroethane	BQL	1.00	1	7/16/2005
Chloroform	BQL	1.00	1	7/16/2005
Chloromethane	BQL	1.00	1	7/16/2005
Dibromochloromethane	BQL	1.00	1	7/16/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	7/16/2005
1,2-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,3-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,4-Dichlorobenzene	BQL	1.00	1	7/16/2005
1,1-Dichloroethane	BQL	1.00	1	7/16/2005
1,2-Dichloroethane	BQL	1.00	1	7/16/2005
1,1-Dichloroethene	BQL	1.00	1	7/16/2005
cis-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
trans-1,2-Dichloroethene	BQL	1.00	1	7/16/2005
1,2-Dichloropropane	BQL	1.00	1	7/16/2005
cis-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
trans-1,3-Dichloropropene	BQL	1.00	1	7/16/2005
Methylene Chloride	BQL	5.00	1	7/16/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	7/16/2005
Tetrachloroethene	BQL	1.00	1	7/16/2005
1,1,1-Trichloroethane	BQL	1.00	1	7/16/2005
1,1,2-Trichloroethane	BQL	1.00	1	7/16/2005
Trichloroethene	BQL	1.00	1	7/16/2005
Trichlorofluoromethane	BQL	1.00	1	7/16/2005
Vinyl Chloride	BQL	1.00	1	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	36.6	91.5

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: GMW-4
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-1A
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 10:45
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	**40.4**	5.00	5	7/16/2005
Diisopropyl ether (DIPE)	**7.39**	5.00	5	7/16/2005
Ethylbenzene	**29.3**	5.00	5	7/16/2005
Methyl-tert butyl ether (MTBE)	BQL	10.0	5	7/16/2005
Toluene	**117**	5.00	5	7/16/2005
m/p-Xylene	**263**	10.0	5	7/16/2005
o-Xylene	**99.1**	10.0	5	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	44.5	111

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID:	GMW-5	Analyzed By:	MJC
Client Project ID:	Gaddy Property	Date Collected:	7/12/2005 9:45
Lab Sample ID:	G161-2069-2A	Date Received:	7/13/2005
Lab Project ID:	G161-2069	Matrix:	Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	20.0	20	7/16/2005
Diisopropyl ether (DIPE)	BQL	20.0	20	7/16/2005
Ethylbenzene	**467**	20.0	20	7/16/2005
Methyl-tert butyl ether (MTBE)	BQL	40.0	20	7/16/2005
Toluene	BQL	20.0	20	7/16/2005
m/p-Xylene	**651**	40.0	20	7/16/2005
o-Xylene	BQL	40.0	20	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: Dup
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-3A
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 0:00
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	25.0	25	7/16/2005
Diisopropyl ether (DIPE)	BQL	25.0	25	7/16/2005
Ethylbenzene	**905**	25.0	25	7/16/2005
Methyl-tert butyl ether (MTBE)	BQL	50.0	25	7/16/2005
Toluene	BQL	25.0	25	7/16/2005
m/p-Xylene	**1220**	50.0	25	7/16/2005
o-Xylene	BQL	50.0	25	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.6	104

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: RW

Results for Volatiles
by GC 602

Client Sample ID: Equip Blank
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-4A
Lab Project ID: G161-2069

Analyzed By: MJC
Date Collected: 7/12/2005 11:00
Date Received: 7/13/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	7/15/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2005
Ethylbenzene	BQL	1.00	1	7/15/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	7/15/2005
Toluene	BQL	1.00	1	7/15/2005
m/p-Xylene	BQL	2.00	1	7/15/2005
o-Xylene	BQL	2.00	1	7/15/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: BAP

Results for Volatiles
by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071605A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	7/16/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	7/16/2005
Ethylbenzene	BQL	1.00	1	7/16/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	7/16/2005
Toluene	BQL	1.00	1	7/16/2005
m/p-Xylene	BQL	2.00	1	7/16/2005
o-Xylene	BQL	2.00	1	7/16/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071505B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	7/15/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	7/15/2005
Ethylbenzene	BQL	1.00	1	7/15/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	7/15/2005
Toluene	BQL	1.00	1	7/15/2005
m/p-Xylene	BQL	2.00	1	7/15/2005
o-Xylene	BQL	2.00	1	7/15/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\021f0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Bromodichloromethane	10.7	107.4	76.0	124.0	107	42	172
	Bromoform	9.9	99.4	73.5	126.5	99	13	159
	Bromomethane	10.6	106.0	58.5	141.5	106	D	144
	Carbon tetrachloride	11.4	114.0	68.5	131.5	114	43	143
	Chlorobenzene	10.6	105.7	72.0	128.0	106	38	150
	Chloroethane	11.0	110.0	77.0	123.0	110	46	137
	Chloroform	11.1	111.5	75.0	125.0	111	49	133
	Chloromethane	10.9	109.3	59.5	140.5	109	D	193
	Dibromochloromethane	10.5	105.4	65.5	134.5	105	24	191
•	1,2-Dibromoethane	10.4	104.2	13.6	186.4	104	D	206
	1,2-Dichlorobenzene	10.2	101.5	70.0	130.0	102	D	208
	1,3-Dichlorobenzene	10.1	101.2	49.5	150.5	101	7	187
	1,4-Dichlorobenzene	10.2	102.3	69.5	130.5	102	42	143
	1,1-Dichloroethane	11.2	112.2	84.0	116.0	112	47	132
	1,2-Dichloroethane	10.8	108.2	71.5	128.5	108	51	147
	1,1-Dichloroethene	11.2	111.5	63.0	137.0	112	28	167
•	cis-1,2-Dichloroethene	10.8	108.1	34.4	180.6	108	19	181
	trans-1,2-Dichloroethene	11.2	111.9	64.0	136.0	112	38	155
	1,2-Dichloropropane	10.9	109.4	74.0	126.0	109	44	156
	cis-1,3-Dichloropropene	10.7	106.5	64.0	136.0	107	22	178
	trans-1,3-Dichloropropene	10.0	100.4	64.0	136.0	100	22	178
	Methylene Chloride	11.2	112.1	77.5	122.5	112	25	162
	1,1,2,2-Tertrachloroethane	10.2	101.8	49.0	151.0	102	8	184
	Tetrachloroethane	11.1	111.1	70.0	130.0	111	26	162
	1,1,1-Trichloroethane	11.1	110.9	71.0	129.0	111	41	138
	1,1,2-Trichloroethane	10.4	104.4	78.5	121.5	104	39	136
	Trichloroethene	11.3	113.1	77.0	123.0	113	36	146
	Trichlorofluromethane	11.1	110.5	66.5	133.5	111	21	156
	Vinyl Chloride	10.8	107.6	68.5	131.5	108	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\021r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.3	102.7	77.0	123.0	103	39	150
	Chlorobenzene	10.0	100.4	80.5	119.5	100	55	135
	1,2-Dichlorobenzene	9.3	93.4	68.0	132.0	93	37	154
	1,3-Dichlorobenzene	9.6	96.3	72.5	127.5	96	50	141
	1,4-Dichlorobenzene	9.7	97.0	69.5	130.5	97	42	143
•	Diisopropyl ether	9.9	98.9	43.1	156.9	99	30	170
	Ethylbenzene	10.1	101.3	63.0	137.0	101	32	160
•	MTBE	10.2	102.2	46.8	153.2	102	35	165
	Toluene	10.2	101.8	77.5	127.0	102	46	148
•	m,p-Xylene	20.4	102.0	11.2	188.8	102	D	239
•	o-Xylene	10.2	101.6	47.6	152.4	102	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by: _____

Control Limits for MS-MSD

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Sample : 071505\036f0101.txt
MS : 071505\037f0101.txt
MSD : 071505\038f0101.txt

5

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.7	10.7	107	107	42	172
Bromoform	ND	9.1	9.2	91	92	13	159
Bromomethane	ND	10.3	10.2	103	102	D	144
Carbon tetrachloride	ND	12.0	11.8	120	118	43	143
Chlorobenzene	ND	11.0	11.0	110	110	38	150
Chloroethane	ND	12.0	11.7	120	117	46	137
Chloroform	ND	11.6	11.3	116	113	49	133
Chloromethane	ND	11.8	11.7	118	117	D	193
Dibromochloromethane	ND	10.0	10.1	100	101	24	191
• 1,2-Dibromoethane	ND	9.8	9.9	98	99	D	206
1,2-Dichlorobenzene	ND	10.2	10.4	102	104	D	208
1,3-Dichlorobenzene	ND	10.6	10.7	106	107	7	187
1,4-Dichlorobenzene	ND	10.5	10.7	105	107	42	143
1,1-Dichloroethane	ND	12.1	11.7	121	117	47	132
1,2-Dichloroethane	ND	10.5	10.5	105	105	51	147
1,1-Dichloroethene	ND	12.3	12.0	123	120	28	167
• cis-1,2-Dichloroethene	ND	11.3	10.9	113	109	19	181
trans-1,2-Dichloroethene	ND	12.2	11.8	122	118	38	155
1,2-Dichloropropane	ND	11.2	11.2	112	112	44	156
cis-1,3-Dichloropropene	ND	10.4	10.4	104	104	22	178
trans-1,3-Dichloropropene	ND	9.3	9.4	91	91	22	178
Methylene Chloride	ND	12.2	11.4	122	114	25	162
1,1,2,2-Tertrachloroethane	ND	9.9	9.9	99	99	8	184
Tetrachloroethane	ND	11.2	11.4	112	114	26	162
1,1,1-Trichloroethane	ND	11.7	11.6	117	116	41	138
1,1,2-Trichloroethane	ND	9.8	10.3	98	103	39	136
Trichloroethene	ND	11.8	11.7	118	117	35	146
Trichlorofluromethane	ND	12.1	11.9	121	119	21	156
Vinyl Chloride	ND	11.8	11.6	118	116	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Sample : 071505\036r0101.txt
MS : 071505\037r0101.txt
MSD : 071505\038r0101.txt

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	10.2	10.2	102	102	39	150
Chlorobenzene	ND	10.1	10.0	101	100	55	135
1,2-Dichlorobenzene	2.2	12.6	12.0	104	98	37	154
1,3-Dichlorobenzene	ND	11.2	10.7	112	107	50	141
1,4-Dichlorobenzene	ND	9.3	9.1	93	91	42	143
• Diisopropyl ether	ND	11.4	11.3	107	106	30	170
Ethylbenzene	36.2	47.6	46.9	114	107	32	160
• MTBE	ND	10.0	10.0	100	100	35	165
Toluene	ND	10.8	10.7	106	106	46	148
• m,p-Xylene	48.8	69.7	68.5	105	99	D	239
• o-Xylene	ND	11.5	11.3	106	104	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected
ND = None Detected

Reviewed by: [illegible]

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Filename : 071605\017f0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Bromodichloromethane	10.9	108.9	76.0	124.0	109	42	172
Bromoform	9.6	95.6	73.5	126.5	96	13	159
Bromomethane	11.2	111.9	58.5	141.5	112	D	144
Carbon tetrachloride	11.8	118.1	68.5	131.5	118	43	143
Chlorobenzene	10.7	106.9	72.0	128.0	107	38	150
Chloroethane	11.7	116.9	77.0	123.0	117	46	137
Chloroform	11.6	115.6	75.0	125.0	116	49	133
Chloromethane	11.4	114.0	59.5	140.5	114	D	193
Dibromochloromethane	10.2	102.2	65.5	134.5	102	24	191
• 1,2-Dibromoethane	10.1	100.8	13.6	186.4	101	D	206
1,2-Dichlorobenzene	10.3	103.3	70.0	130.0	103	D	208
1,3-Dichlorobenzene	10.4	104.4	49.5	150.5	104	7	187
1,4-Dichlorobenzene	10.5	104.9	69.5	130.5	105	42	143
1,1-Dichloroethane	11.6	116.0	84.0	116.0	116	47	132
1,2-Dichloroethane	10.9	109.0	71.5	128.5	109	51	147
1,1-Dichloroethene	11.6	115.8	63.0	137.0	116	28	167
• cis-1,2-Dichloroethene	11.2	112.3	34.4	180.6	112	19	181
trans-1,2-Dichloroethene	11.6	116.3	64.0	136.0	116	38	155
1,2-Dichloropropane	11.2	112.0	74.0	126.0	112	44	156
cis-1,3-Dichloropropene	10.6	106.0	64.0	136.0	106	22	178
trans-1,3-Dichloropropene	9.8	97.8	64.0	136.0	98	22	178
Methylene Chloride	11.2	111.8	77.5	122.5	112	25	162
1,1,2,2-Tertrachloroethane	10.1	100.7	49.0	151.0	101	8	184
Tetrachloroethane	11.1	111.1	70.0	130.0	111	26	162
1,1,1-Trichloroethane	11.6	116.2	71.0	129.0	116	41	138
1,1,2-Trichloroethane	10.4	103.7	78.5	121.5	104	39	136
Trichloroethene	11.8	118.0	77.0	123.0	118	35	146
Trichlorofluromethane	11.8	118.1	66.5	133.5	118	21	156
Vinyl Chloride	11.4	114.0	68.5	131.5	114	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 071605\017r0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Benzene	10.3	102.6	77.0	123.0	103	39	150
Chlorobenzene	9.9	98.9	80.5	119.5	99	55	135
1,2-Dichlorobenzene	9.5	94.8	68.0	132.0	95	37	154
1,3-Dichlorobenzene	9.9	98.8	72.5	127.5	99	50	141
1,4-Dichlorobenzene	9.5	94.9	69.5	130.5	95	42	143
• Diisopropyl ether	9.7	97.4	43.1	156.9	97	30	170
Ethylbenzene	10.1	101.5	63.0	137.0	101	32	160
• MTBE	10.2	101.9	46.8	153.2	102	35	165
Toluene	10.1	101.4	77.5	127.0	101	46	148
• m,p-Xylene	20.4	101.8	11.2	188.8	102	D	239
• o-Xylene	10.0	100.4	47.6	152.4	100	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by: RNP

Control Limits for MS-MSD

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Sample : 071605\030f0101.txt
MS : 071605\031f0101.txt
MSD : 071605\032f0101.txt

5

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.6	10.7	106	107	42	172
Bromoform	ND	9.0	9.2	90	92	13	159
Bromomethane	ND	10.5	10.5	105	105	D	144
Carbon tetrachloride	ND	12.1	12.0	121	120	43	143
Chlorobenzene	ND	10.7	10.6	107	106	38	150
Chloroethane	ND	11.4	11.2	114	112	46	137
Chloroform	ND	11.4	11.3	114	113	49	133
Chloromethane	ND	11.3	10.9	113	109	D	193
Dibromochloromethane	ND	10.1	10.1	101	101	24	191
• 1,2-Dibromoethane	ND	10.0	10.0	100	100	D	206
1,2-Dichlorobenzene	ND	10.5	10.2	105	102	D	208
1,3-Dichlorobenzene	ND	10.6	10.3	106	103	7	187
1,4-Dichlorobenzene	ND	10.6	10.4	106	104	42	143
1,1-Dichloroethane	ND	11.7	11.6	117	116	47	132
1,2-Dichloroethane	ND	10.8	10.9	108	109	51	147
1,1-Dichloroethene	30.23	40.0	39.3	97	91	28	167
• cis-1,2-Dichloroethene	ND	10.9	10.9	109	109	19	181
trans-1,2-Dichloroethene	ND	11.7	11.6	117	116	38	155
1,2-Dichloropropane	ND	11.2	11.2	112	112	44	156
cis-1,3-Dichloropropene	ND	10.4	10.3	104	103	22	178
trans-1,3-Dichloropropene	ND	9.4	9.5	92	92	22	178
Methylene Chloride	ND	11.4	11.2	114	112	25	162
1,1,2,2-Tertrachloroethane	ND	9.9	9.8	99	98	8	184
Tetrachloroethane	ND	11.3	11.2	113	112	26	162
1,1,1-Trichloroethane	20.73	30.0	29.6	92	88	41	138
1,1,2-Trichloroethane	ND	10.3	10.2	103	102	39	136
Trichloroethene	ND	11.6	11.6	116	116	35	146
Trichlorofluromethane	ND	11.6	11.4	116	114	21	156
Vinyl Chloride	ND	11.2	10.9	112	109	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Sample : 071605\030r0101.txt
MS : 071605\031r0101.txt
MSD : 071605\032r0101.txt

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	10.3	10.3	103	103	39	150
Chlorobenzene	ND	10.0	10.0	100	100	55	135
1,2-Dichlorobenzene	ND	10.0	9.7	100	97	37	154
1,3-Dichlorobenzene	ND	10.7	10.4	107	104	50	141
1,4-Dichlorobenzene	ND	9.9	9.6	99	96	42	143
• Diisopropyl ether	ND	9.5	9.6	95	96	30	170
Ethylbenzene	ND	10.5	10.3	105	103	32	160
• MTBE	ND	10.1	10.2	101	102	35	165
Toluene	ND	10.3	10.3	103	103	46	148
• m,p-Xylene	ND	21.2	20.8	106	104	D	239
• o-Xylene	ND	10.2	9.9	102	99	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected
ND = None Detected

Reviewed by: _____

Paradigm Analytical Laboratories, INC.

II

601 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (DCB) #	QC LIMITS	TOT OUT
01	GMW-4	G161-2069-1A	033F0101.D	91.7	70 - 130	0
02	GMW-5	G161-2069-2A	035F0101.D	96.7	70 - 130	0
03	Dup	G161-2069-3A	036F0101.D	91.7	70 - 130	0
04	Equip Blank	G161-2069-4A	026F0101.D	96	70 - 130	0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
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32						
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34						
35						

S1 (DCB) = 1,4-dichlorobutane

Paradigm Analytical Laboratories, INC.

IV

601 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1071505A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK1071505A Lab File ID: 021F0101.D

Date Analyzed: 2005-07-15 Instrument ID: GC1

Time Analyzed: 21:28 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	GMW-4	G161-2069-1A	033F0101.D	2005-07-16 00:56
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
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32				
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34				
35				

COMMENTS:

Paradigm Analytical Laboratories, INC.

IV

601 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3071505B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3071505B Lab File ID: 023F0101.D

Date Analyzed: 2005-07-15 Instrument ID: GC3

Time Analyzed: 19:51 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	Equip Blank	G161-2069-4A	026F0101.D	2005-07-15 21:23
02	GMW-5	G161-2069-2A	035F0101.D	2005-07-16 01:57
03	Dup	G161-2069-3A	036F0101.D	2005-07-16 02:28
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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22				
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35				

COMMENTS:

Paradigm Analytical Laboratories, INC.

II

602 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (TFT) #	QC LIMITS	TOT OUT
01	GMW-4	G161-2069-1A	033R0101.D	111	70 - 130	
02	GMW-5	G161-2069-2A	035R0101.D	102	70 - 130	
03	Dup	G161-2069-3A	036R0101.D	104	70 - 130	
04	Equip Blank	G161-2069-4A	026R0101.D	100	70 - 130	
05						
06						
07						
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S1 (TFT) = trifluorotoluene

Paradigm Analytical Laboratories, INC.

IV

602 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3071505B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3071505B Lab File ID: 023R0101.D

Date Analyzed: 2005-07-15 Instrument ID: GC3

Time Analyzed: 19:51 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	Equip Blank	G161-2069-4A	026R0101.D	2005-07-15 21:23
02	GMW-4	G161-2069-1A	034R0101.D	2005-07-16 01:27
03	GMW-5	G161-2069-2A	035R0101.D	2005-07-16 01:57
04	Dup	G161-2069-3A	036R0101.D	2005-07-16 02:28
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COMMENTS:

Results for Organics
by EPA 504

Client Sample ID:	GMW-4	Analyzed By:	CLP
Client Project ID:	Gaddy Property	Date Collected:	7/12/05 10:45
Lab Sample ID:	G161-2069-1O	Date Received:	7/13/05 10:00
Lab Project ID:	G161-2069	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0196	1	7/19/05

Reviewed By: _____

8011_LIMS_1 2

Results for Organics
by EPA 504

Client Sample ID:	GMW-5	Analyzed By:	CLP
Client Project ID:	Gaddy Property	Date Collected:	7/12/05 9:45
Lab Sample ID:	G161-2069-2R	Date Received:	7/13/05 10:00
Lab Project ID:	G161-2069	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0196	1	7/19/05

Reviewed By: RWP

8011_LIMS_1 2

Paradigm Analytical Laboratories, INC.

4C

EDB/8011/504 METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3264)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3264 Lab File ID: 009F0101.D

Matrix: (soil/water) WATER Instrument ID: ECD1

Date Analyzed: 2005-07-19 GC Column: RTX-5

Time Analyzed: 15:23

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	GMW-4	G161-2069-1O	010F0201.D	2005-07-19 15:36
02	GMW-5	G161-2069-2R	011F0301.D	2005-07-19 15:50
03				
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COMMENTS:

Results for Organics
by EPA 504

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3264
Lab Project ID:

Analyzed By: CLP
Date Collected:
Date Received:
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0 0197	1	7/19/05

Reviewed By: RW

8011_LIMS_1 2

QC Results for EDB
by EPA 8011/504

Client Sample ID: Batch QC
Lab Sample ID: G349-108-4E
Batch ID: 3264

Analyzed By: CLP
Matrix: WATER

MS/MSD

Analyte	Sample ug/L	Spiked ug/L	MS ug/L	REC %	Spiked ug/L	MSD ug/L	REC %	RPD %
EDB	< 1	0 0562	0 191	94.3	0 0562	0 199	108	13.5

LCS

Analyte		Spiked ug/L	Result ug/L	REC %	Limits	
					Lower	Upper
EDB		0 0568343	0 0739	130	70	130

Comments:

= Outside Control Limits

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GMW-4
Sample Matrix	Water
Date Collected	07/12/05
Date Received	07/13/05
Date Extracted	07/15/05
Date Analyzed	07/19/05
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	140 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	98
Fractionation Surrogate 1 % Recovery	86

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2069-1M

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GMW-5
Sample Matrix	Water
Date Collected	07/12/05
Date Received	07/13/05
Date Extracted	07/15/05
Date Analyzed	07/18/05
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	270 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	96
Fractionation Surrogate 1 % Recovery	86

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2069-2M

Reviewed By: RNP

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/18/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.3
C_{19}-C_{36} Aliphatics	160	10.5
C_{11}-C_{22} Aromatics	340	-7.9

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Date Collected	
Date Received	
Date Extracted	07/15/05
Date Analyzed	07/16/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	100

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: pb3239

Reviewed By: _____

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	7/18/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID.	QC3239	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	%Rec	MSD ug/L	%Rec	RPD
C_9-C_{18} Aliphatics	BQL	320	68%	360	76%	11.8
C_{19}-C_{36} Aliphatics	BQL	760	107%	820	116%	7.6
C_{11}-C_{22} Aromatics	270	1000	66%	1300	93%	34.1

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	7/18/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	LCS3239	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Spiked ug/L	LCS ug/L	%Rec	%Recovery Limits Lower	Upper
C_9-C_{18} Aliphatics	200	130	65	40	140
C_{19}-C_{36} Aliphatics	300	350	117	40	140
C_{11}-C_{22} Aromatics	500	430	86	40	140

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Paradigm Analytical Laboratories, INC.

II

EPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	S1 (COD) #	S2 (OTP) #	S3 (frac) #	QC LIMITS	TOT OUT
01	GMW-4	G161-2069-1M	100	98	85	40 - 140	0
02	GMW-5	G161-2069-2M	79	96	86	40 - 140	0
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S1 (COD) = Chloro-octadecane
S2 (OTP) = ortho-terphenyl
S3 (frac) = 2-Bromonaphthalene

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3239

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3239 Extraction: (Type) 3520

Matrix: (soil/water) WATER Date Extracted: 2005-07-15

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	GMW-4	G161-2069-1M
02	GMW-5	G161-2069-2M
03	G161-2069-2N MS	G161-2069-2N MS
04	G161-2069-2O MSD	G161-2069-2O MSD
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COMMENTS:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GMW-4
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/12/05
Date Received	07/13/05
Date Extracted	07/14/05
Date Analyzed	07/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	1400 (µg/L)
C_9-C_{12} Aliphatics**	900 (µg/L)
C_9-C_{10} Aromatics**	830 (µg/L)
Surrogate % Recovery - PID	140***
Surrogate % Recovery - FID	130

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2069-1d

Reviewed By: RMP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Gaddy Property

Sample Information and Analytical Results	
Sample Identification	GMW-5
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/12/05
Date Received	07/13/05
Date Extracted	07/15/05
Date Analyzed	07/15/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	310 (µg/L)
C_9-C_{12} Aliphatics**	1800 (µg/L)
C_9-C_{10} Aromatics**	1600 (µg/L)
Surrogate % Recovery - PID	150***
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2069-2d

Reviewed By: PNP

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	7/14/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4071405	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1 0

Compound	Spike ug/L	LCS ug/L	Percent Recovery	Recovery Limits Low	High
C_5-C_8 Aliphatics		320			
C_9-C_{12} Aliphatics		140			
C_9-C_{10} Aromatics		66			
Gasoline	500	526	105	70	130

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	7/14/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC071405	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L		MSD ug/L		
C_5-C_8 Aliphatics	BQL	320		300		
C_9-C_{12} Aliphatics	BQL	130		120		
C_9-C_{10} Aromatics	BQL	73		69		
		Total	**%Rec**	**Total**	**%Rec**	**RPD**
Gasoline	BQL	523	105%	489	98%	6.7

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Paradigm Analytical Laboratories, INC.

II

VPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (FID) #	S2 (PID) #	QC LIMITS	TOT OUT
01	GMW-4	G161-2069-1D	038F0101.D	130	140#	70-130	1
02	GMW-5	G161-2069-2D	039F0101.D	120	150#	70-130	1
03							
04							
05							
06							
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S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4071405A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4071405A Lab File ID: 013F0101.D

Date Analyzed: 2005-07-14 Instrument ID: GC4

Time Analyzed: 13:27 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	GMW-4	G161-2069-1D	038F0101.D	2005-07-14 23:58
02	GMW-5	G161-2069-2D	039F0101.D	2005-07-15 00:23
03	GMW-5	G161-2069-2D	040F0101.D	2005-07-15 00:48
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COMMENTS:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/14/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	99

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: vblk4071405a

Reviewed By. _____

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/14/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	-1.5
C_9-C_{12} Aliphatics	500	50	-6.2
C_9-C_{10} Aromatics	500	50	-8.6

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GMW-4
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-1L
Lab Project ID: G161-2069

Analyzed By: MRC
Date Collected: 7/12/2005 10:45
Date Received: 7/13/2005
Date Extracted: 7/15/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/16/2005
Acenaphthylene	BQL	10.0	1	7/16/2005
Anthracene	BQL	10.0	1	7/16/2005
Benzo[a]anthracene	BQL	10.0	1	7/16/2005
Benzo[a]pyrene	BQL	10.0	1	7/16/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/16/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/16/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/16/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/16/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/16/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/16/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/16/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/16/2005
Butylbenzylphthalate	BQL	10.0	1	7/16/2005
2-Chloronaphthalene	BQL	10.0	1	7/16/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/16/2005
Chrysene	BQL	10.0	1	7/16/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/16/2005
Di-n-Butylphthalate	BQL	10.0	1	7/16/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/16/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/16/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/16/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/16/2005
Diethylphthalate	BQL	10.0	1	7/16/2005
Dimethylphthalate	BQL	10.0	1	7/16/2005
Di-n-octylphthalate	BQL	10.0	1	7/16/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/16/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/16/2005
Diphenylamine *	BQL	10.0	1	7/16/2005
Fluoranthene	BQL	10.0	1	7/16/2005
Fluorene	BQL	10.0	1	7/16/2005
Hexachlorobenzene	BQL	10.0	1	7/16/2005
Hexachlorobutadiene	BQL	10.0	1	7/16/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/16/2005
Hexachloroethane	BQL	10.0	1	7/16/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/16/2005
Isophorone	BQL	10.0	1	7/16/2005
Naphthalene	**47.1**	10.0	1	7/16/2005
Nitrobenzene	BQL	10.0	1	7/16/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/16/2005
Phenanthrene	BQL	10.0	1	7/16/2005
Pyrene	BQL	10.0	1	7/16/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GMW-4
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-1L
Lab Project ID: G161-2069

Analyzed By: MRC
Date Collected: 7/12/2005 10:45
Date Received: 7/13/2005
Date Extracted: 7/15/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/16/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.3	93
Nitrobenzene-d5	10	9.7	97
4-Terphenyl-d14	10	12.6	126

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: GMW-4
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-1L
Lab Project ID: G161-2069
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/12/2005 10:45
Date Received: 7/13/2005
Date Extracted: 7/15/2005
Date Analyzed: 7/16/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Dimethylbenzene, Isomer of	4.39			217
2	Trimethylbenzene, Isomer of	5.95			212
3	Dimethylbenzene, Isomer of	4.68			83.7
4	Ethylmethylbenzene, Isomer of	5.55			77.2
5	Ethyldimethylbenzene, Isomer of	6.68			71.9
6	Trimethylbenzene, Isomer of	5.65			71.1
7	Trimethylbenzene, Isomer of	6.27			65.4
8	Ethylmethylbenzene, Isomer of	5.58			50.7
9	Methylpropylbenzene, Isomer of	6.61			35.8
10	2-Methylnaphthalene	9.20	000091-57-6	98	25.9

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GMW-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-2L
Lab Project ID: G161-2069

Analyzed By: MRC
Date Collected: 7/12/2005 9:45
Date Received: 7/13/2005
Date Extracted: 7/15/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/16/2005
Acenaphthylene	BQL	10.0	1	7/16/2005
Anthracene	BQL	10.0	1	7/16/2005
Benzo[a]anthracene	BQL	10.0	1	7/16/2005
Benzo[a]pyrene	BQL	10.0	1	7/16/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/16/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/16/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/16/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/16/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/16/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/16/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/16/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/16/2005
Butylbenzylphthalate	BQL	10.0	1	7/16/2005
2-Chloronaphthalene	BQL	10.0	1	7/16/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/16/2005
Chrysene	BQL	10.0	1	7/16/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/16/2005
Di-n-Butylphthalate	BQL	10.0	1	7/16/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/16/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/16/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/16/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/16/2005
Diethylphthalate	BQL	10.0	1	7/16/2005
Dimethylphthalate	BQL	10.0	1	7/16/2005
Di-n-octylphthalate	BQL	10.0	1	7/16/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/16/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/16/2005
Diphenylamine *	BQL	10.0	1	7/16/2005
Fluoranthene	BQL	10.0	1	7/16/2005
Fluorene	BQL	10.0	1	7/16/2005
Hexachlorobenzene	BQL	10.0	1	7/16/2005
Hexachlorobutadiene	BQL	10.0	1	7/16/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/16/2005
Hexachloroethane	BQL	10.0	1	7/16/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/16/2005
Isophorone	BQL	10.0	1	7/16/2005
Naphthalene	**352**	10.0	1	7/16/2005
Nitrobenzene	BQL	10.0	1	7/16/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/16/2005
Phenanthrene	BQL	10.0	1	7/16/2005
Pyrene	BQL	10.0	1	7/16/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: GMW-5
Client Project ID: Gaddy Property
Lab Sample ID: G161-2069-2L
Lab Project ID: G161-2069

Analyzed By: MRC
Date Collected: 7/12/2005 9:45
Date Received: 7/13/2005
Date Extracted: 7/15/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/16/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.5	85
Nitrobenzene-d5	10	9.1	91
4-Terphenyl-d14	10	12.4	124

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID:	GMW-5	Analyzed By:	MRC
Client Project ID:	Gaddy Property	Date Collected:	7/12/2005 9:45
Lab Sample ID:	G161-2069-2L	Date Received:	7/13/2005
Lab Project ID:	G161-2069	Date Extracted:	7/15/2005
Sample Wt/Vol:	500 ML	Date Analyzed:	7/16/2005
Dilution:	1	Matrix:	Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Dimethylbenzene, Isomer of	4.41			580
2	Benzene, 1,2,3-trimethyl-	5.96			506
3	Dimethylbenzene, Isomer of	4.27			466
4	Aromatic, Unknown	6.44			270
5	Trimethylbenzene, Isomer of	5.65			208
6	Ethylmethylbenzene, Isomer of	5.55			193
7	Ethylmethylbenzene, Isomer of	5.58			177
8	Trimethylbenzene, Isomer of	6.28			156
9	Trimethylbenzene, Isomer of	5.45			94
10	Ethylmethylbenzene, Isomer of	5.07			72.3

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3238
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/15/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	7/15/2005
Acenaphthylene	BQL	10.0	1	7/15/2005
Anthracene	BQL	10.0	1	7/15/2005
Benzo[a]anthracene	BQL	10.0	1	7/15/2005
Benzo[a]pyrene	BQL	10.0	1	7/15/2005
Benzo[b]fluoranthene	BQL	10.0	1	7/15/2005
Benzo[g,h,i]perylene	BQL	10.0	1	7/15/2005
Benzo[k]fluoranthene	BQL	10.0	1	7/15/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	7/15/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	7/15/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	7/15/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	7/15/2005
4-bromophenyl phenyl ether	BQL	10.0	1	7/15/2005
Butylbenzylphthalate	BQL	10.0	1	7/15/2005
2-Chloronaphthalene	BQL	10.0	1	7/15/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	7/15/2005
Chrysene	BQL	10.0	1	7/15/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	7/15/2005
Di-n-Butylphthalate	BQL	10.0	1	7/15/2005
1,2-Dichlorobenzene	BQL	10.0	1	7/15/2005
1,3-Dichlorobenzene	BQL	10.0	1	7/15/2005
1,4-Dichlorobenzene	BQL	10.0	1	7/15/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	7/15/2005
Diethylphthalate	BQL	10.0	1	7/15/2005
Dimethylphthalate	BQL	10.0	1	7/15/2005
Di-n-octylphthalate	BQL	10.0	1	7/15/2005
2,4-Dinitrotoluene	BQL	10.0	1	7/15/2005
2,6-Dinitrotoluene	BQL	10.0	1	7/15/2005
Diphenylamine *	BQL	10.0	1	7/15/2005
Fluoranthene	BQL	10.0	1	7/15/2005
Fluorene	BQL	10.0	1	7/15/2005
Hexachlorobenzene	BQL	10.0	1	7/15/2005
Hexachlorobutadiene	BQL	10.0	1	7/15/2005
Hexachlorocyclopentadiene	BQL	20.0	1	7/15/2005
Hexachloroethane	BQL	10.0	1	7/15/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	7/15/2005
Isophorone	BQL	10.0	1	7/15/2005
Naphthalene	BQL	10.0	1	7/15/2005
Nitrobenzene	BQL	10.0	1	7/15/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	7/15/2005
Phenanthrene	BQL	10.0	1	7/15/2005
Pyrene	BQL	10.0	1	7/15/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3238
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/15/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	7/15/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.2	102
4-Terphenyl-d14	10	12.8	128

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3238
Lab Project ID:
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/15/2005
Date Analyzed: 7/16/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Know Solvent peak (added by lab)	3.09			137
2	Know Compound peak (added by lab)	11.01			134
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by:

Paradigm Analytical Laboratories, INC.

2C

WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #				TOT OUT
01	GMW-4	97	93	126				0
02	G161-2070-3G	94	94	137				0
03	G161-2070-3H MS	92	110	97				0
04	G161-2070-3I MSD	93	96	95				0
05	LCS3238	10	117	103				0
06	PB3238	102	102	128				0
07	GMW-5	91	85	124				0
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	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(46-117)
S2 (FBP) = 2-Fluorobiphenyl	(42-116)
S3 (TPH) = Terphenyl-d14	(44-140)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2070-3G

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	214	224	104	214	213	99.1	5.21	30	55.0-106
Acenaphthylene	BQL	214	241	112	214	227	106	5.78	30	62.0-119
Anthracene	BQL	214	225	105 *	214	213	99.1 *	5.50	30	44.0-96.0
Benzo[a]anthracene	BQL	214	215	100	214	201	93.8	6.60	30	50.0-109
Benzo[a]pyrene	BQL	214	244	114 *	214	222	104 *	9.30	30	39.0-100
Benzo[b]fluoranthene	BQL	214	235	109 *	214	209	97.6	11.4	30	34.0-105
Benzo[g,h,i]perylene	BQL	214	219	102	214	209	97.3	4.72	30	36.0-116
Benzo[k]fluoranthene	BQL	214	260	121 *	214	241	112	7.46	30	26.0-120
Benzoic Acid	BQL	214	128	59.6	214	141	65.8	9.89	30	44.0-107
Benzyl Alcohol	BQL	214	173	80.8	214	174	80.9	0.124	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	214	210	97.7	214	207	96.4	1.34	30	58.0-101
Bis(2-chloroethyl)ether	BQL	214	189	88.1	214	201	93.5 *	5.95	30	47.0-93.0
Bis(2-chloroisopropyl)ether	BQL	214	200	93.1	214	204	95.2	2.23	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	214	211	98.5	214	204	95.3	3.30	30	46.0-131
4-bromophenyl phenyl ether	BQL	214	233	108	214	218	102	6.28	30	36.0-112
Butylbenzylphthalate	BQL	214	228	106	214	214	99.7	6.50	30	54.0-117
4-Chloroaniline	BQL	214	202	94.0	214	216	101	6.78	30	12.0-198
4-Chloro-3-methylphenol	BQL	214	200	93.1	214	191	88.9	4.62	30	67.0-98.0
2-Chloronaphthalene	BQL	214	221	103	214	206	96.2	6.92	30	54.0-105
2-Chlorophenol	BQL	214	177	82.3	214	182	85.0	3.23	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	214	221	103	214	210	97.7	5.48	30	51.0-114
Chrysene	BQL	214	234	109	214	223	104	4.70	30	52.0-114
Di-n-Butylphthalate	BQL	214	236	110	214	223	104	5.62	30	53.0-111
Di-n-octylphthalate	BQL	214	196	91.4	214	177	82.4	10.4	30	22.0-113
Dibenzo[a,h]anthracene	BQL	214	176	82.2	214	180	84.1	2.28	30	33.0-117
Dibenzofuran	BQL	214	197	92.0	214	188	87.4	5.13	30	62.0-108
1,2-Dichlorobenzene	BQL	214	112	52.4	214	117	54.5	3.93	30	31.0-93.0
1,3-Dichlorobenzene	BQL	214	93.6	43.6	214	96.8	45.1	3.38	30	25.0-87.0
1,4-Dichlorobenzene	BQL	214	98.5	45.9	214	103	48.2	4.89	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	214	154	72.0	214	152	70.6	1.96	30	10.0-383
2,4-Dichlorophenol	BQL	214	185	86.2	214	181	84.5	1.99	30	61.0-97.0
Diethylphthalate	BQL	214	236	110 *	214	223	104 *	5.51	30	65.0-102
2,4-Dimethylphenol	BQL	214	153	71.5	214	140	65.1	9.37	30	29.0-110
Dimethylphthalate	BQL	214	226	105 *	214	211	98.3	6.69	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	214	229	107 *	214	211	98.3	8.38	30	46.0-104
2,4-Dinitrophenol	BQL	214	214	99.6	214	208	96.7	2.95	30	47.0-109
2,4-Dinitrotoluene	BQL	214	242	113 *	214	225	105 *	6.98	30	63.0-103
2,6-Dinitrotoluene	BQL	214	236	110 *	214	222	104 *	5.81	30	61.0-101
Fluoranthene	BQL	214	230	107	214	0.00	0.00 *	200 *	30	49.0-109
Fluorene	BQL	214	226	105	214	214	99.5	5.76	30	58.0-108
Hexachlorobenzene	BQL	214	229	107	214	218	101	5.28	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 25 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3C

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2070-3G

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	214	147	68.6	214	151	70.2	2.30	30	26.0-95.0
Hexachlorocyclopentadiene	BQL	214	109	51.0	214	82.8	38.6	27.7	30	10.0-113
Hexachloroethane	BQL	214	89.9	41.9	214	92.7	43.2	3.06	30	15.0-96.0
Indeno(1,2,3-c,d)pyrene	BQL	214	162	75.3	214	149	69.3	8.30	30	34.0-111
Isophorone	BQL	214	250	117 *	214	244	114 *	2.60	30	65.0-112
1-Methylnaphthalene	BQL	214	201	93.6	214	195	91.0	2.82	30	48.0-121
2-Methylnaphthalene	BQL	214	180	83.9	214	178	83.0	1.08	30	45.0-121
2-Methylphenol	BQL	214	194	90.4	214	192	89.5	1.00	30	62.0-99.0
4-Methylphenol	BQL	429	343	79.9	429	339	79.0	1.07	30	51.0-102
N-Nitrosodi-n-propylamine	BQL	214	237	110 *	214	231	108 *	2.29	30	67.0-107
Diphenylamine	BQL	214	321	150 *	214	304	142 *	5.49	30	24.0-114
Naphthalene	BQL	214	181	84.3	214	182	84.7	0.473	30	25.0-131
2-Nitroaniline	BQL	214	121	56.2	214	153	71.3	23.7	30	54.0-135
3-Nitroaniline	BQL	214	276	129	214	285	133	3.14	30	10.0-594
4-Nitroaniline	BQL	214	95.9	44.7	214	110	51.4	13.9	30	30.0-153
Nitrobenzene	BQL	214	261	122 *	214	258	120 *	0.909	30	57.0-98.0
2-Nitrophenol	BQL	214	192	89.7	214	192	89.7	0.00	30	50.0-97.0
4-Nitrophenol	BQL	214	176	82.1	214	158	73.9	10.5	30	49.0-146
Pentachlorophenol	BQL	214	166	77.5	214	159	74.0	4.62	30	43.0-106
Phenanthrene	BQL	214	226	105	214	214	99.5	5.47	30	53.0-108
Phenol	BQL	214	202	94.4	214	200	93.1	1.39	30	61.0-100
Pyrene	BQL	214	270	126 *	214	248	115	8.46	30	41.0-123
1,2,4-Trichlorobenzene	BQL	214	165	77.0	214	166	77.3	0.389	30	41.0-96.0
2,4,5-Trichlorophenol	BQL	214	196	91.4	214	189	88.0	3.79	30	62.0-100
2,4,6-Trichlorophenol	BQL	214	199	92.8	214	192	89.5	3.62	30	61.0-96.0

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 25 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3238

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0715722.D Lab Sample ID: PB3238

Instrument ID: MSD7 Date Extracted: 07/15/05

Matrix: (soil/water) WATER Date Analyzed: 07/15/05

Level: (low/med) LOW Time Analyzed: 22:46

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G161-2070-3H MS	G161-2070-3H MS	0715724.D	07/15 23:56
02	G161-2070-3I MSD	G161-2070-3I MSD	0715725.D	07/16 00:32
03	GMW-4	G161-2069-1L	0715730.D	07/16 03:25
04	GMW-5	G161-2069-2L	0715731.D	07/16 03:59
05	G161-2070-3G	G161-2070-3G	0715734.D	07/16 05:43
06				
07				
08				
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0624701.D DFTPP Injection Date: 06/24/05

Instrument ID: MSD7 DFTPP Injection Time: 12:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	31.0
70	Less than 2.0% of mass 69	0.7
127	40.0 - 60.0% of mass 198	42.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.4
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	74.0
442	40.0 - 100.0% of mass 198	98.1
443	17.0 - 23.0% of mass 442	19.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL48	SVCAL48	0624702.D	06/24/05	12:32
02	SVCAL24	SVCAL24	0624703.D	06/24/05	13:06
03	SVCAL12	SVCAL12	0624704.D	06/24/05	13:40
04	SVCAL8	SVCAL8	0624705.D	06/24/05	14:14
05	SVCAL6	SVCAL6	0624706.D	06/24/05	14:49
06	SVCAL4	SVCAL4	0624707.D	06/24/05	15:23
07	SVCAL2	SVCAL2	0624708.D	06/24/05	15:57
08	SVCAL1	SVCAL1	0624709.D	06/24/05	16:32
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11					
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0715701.D DFTPP Injection Date: 07/15/05

Instrument ID: MSD7 DFTPP Injection Time: 10:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.2
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	31.7
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	23.1
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	74.6
442	40.0 - 100.0% of mass 198	89.0
443	17.0 - 23.0% of mass 442	19.3

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS6	SVCVS6	0715703.D	07/15/05	11:53
02	PB3238	PB3238	0715722.D	07/15/05	22:46
03	LCS3238	LCS3238	0715723.D	07/15/05	23:21
04	G161-2070-3H MS	G161-2070-3H MS	0715724.D	07/15/05	23:56
05	G161-2070-3I MSD	G161-2070-3I MSD	0715725.D	07/16/05	00:32
06	GMW-4	G161-2069-1L	0715730.D	07/16/05	03:25
07	GMW-5	G161-2069-2L	0715731.D	07/16/05	03:59
08	G161-2070-3G	G161-2070-3G	0715734.D	07/16/05	05:43
09					
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 06/24/05

Calibration Times: 12:32

LAB FILE ID: RRF1.0 = 0624709.D RRF2.0 = 0624708.D RRF4.0 = 0624707.D RRF6.0 = 0624706.D

RRF8.0 = 0624705.D RRF12.0 = 0624704.D RRF24.0 = 0624703.D RRF48.0 = 0624702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine		0.779	0.759	0.794	0.818	0.801	0.842	0.646	0.777	8.20
N-Nitrosodimethylamine	0.511	0.569	0.591	0.616	0.581	0.603	0.582		0.579	5.83
Phenol	1.27	1.62	1.65	1.69	1.57	1.66	1.57	1.44	1.56	8.89
Bis(2-chloroethyl)ether	1.17	1.27	1.21	1.23	1.20	1.24	1.18	1.18	1.21	2.90
2-Chlorophenol	1.16	1.21	1.26	1.30	1.21	1.28	1.25	1.17	1.23	4.04
Benzyl Alcohol	0.454	0.648	0.745	0.812	0.763	0.825	0.817	0.798	0.733	17.3
1,3-Dichlorobenzene	1.30	1.31	1.32	1.38	1.26	1.33	1.27	1.18	1.30	4.40
1,4-Dichlorobenzene	1.40	1.40	1.41	1.44	1.34	1.39	1.31	1.20	1.36	5.74
1,2-Dichlorobenzene	1.24	1.24	1.26	1.29	1.19	1.23	1.18	1.08	1.21	5.42
2-Methylphenol	0.856	0.957	0.988	1.01	0.933	0.932	0.850	0.762	0.911	9.13
3-, 4-Methylphenol	1.20	1.34	1.40	1.39	1.36	1.39	1.27	0.974	1.29	11.3
Bis(2-chloroisopropyl)ether	1.93	1.90	1.87	1.87	1.73	1.73	1.52	1.33	1.74	12.1
N-Nitrosodi-n-propylamine	0.583	0.626	0.648	0.668	0.621	0.667	0.635	0.575	0.628	5.52
Hexachloroethane	0.453	0.453	0.470	0.470	0.435	0.448	0.406	0.302	0.430	12.9
2-Fluorophenol (surr)	0.723	0.855	0.903	0.996	0.936	0.996	0.995	0.961	0.921	10.3
Phenol-d6 (surr)	1.25	1.35	1.39	1.46	1.36	1.42	1.34	1.27	1.35	5.28
Nitrobenzene	0.258	0.278	0.289	0.296	0.274	0.288	0.264	0.252	0.275	5.72
Isophorone	0.436	0.434	0.434	0.444	0.414	0.438	0.418	0.421	0.430	2.46
2-Nitrophenol	0.126	0.152	0.167	0.181	0.170	0.184	0.177	0.171	0.166	11.5
2,4-Dimethylphenol	0.227	0.245	0.257	0.272	0.250	0.267	0.245	0.239	0.250	5.91
Benzoic Acid		0.073	0.117	0.141	0.134	0.166	0.172	0.180	0.141	26.5
Bis(2-chloroethoxy)methane	0.300	0.324	0.330	0.341	0.314	0.335	0.307	0.292	0.318	5.55
2,4-Dichlorophenol	0.172	0.214	0.238	0.254	0.234	0.252	0.236	0.221	0.228	11.6
1,2,4-Trichlorobenzene	0.248	0.257	0.257	0.265	0.244	0.261	0.238	0.223	0.249	5.58
Naphthalene	0.850	0.849	0.843	0.860	0.788	0.833	0.751	0.677	0.806	7.93
4-Chloroaniline	0.04	0.059	0.063	0.07	0.085	0.130	0.192		0.091	57.8
Hexachlorobutadiene	0.128	0.128	0.129	0.131	0.121	0.126	0.114	0.105	0.123	7.35
4-Chloro-3-methylphenol	0.192	0.220	0.237	0.250	0.235	0.252	0.234	0.220	0.230	8.48
2-Methylnaphthalene	0.651	0.651	0.650	0.662	0.598	0.635	0.561	0.502	0.614	9.24
Nitrobenzene-d5 (surr)	0.104	0.121	0.130	0.138	0.127	0.139	0.134	0.131	0.128	8.74
Hexachlorocyclopentadiene	0.017	0.041	0.065	0.081	0.081	0.100	0.096	0.094	0.072	40.8
2,4,6-Trichlorophenol	0.287	0.317	0.329	0.348	0.329	0.344	0.325	0.301	0.323	6.37
2,4,5-Trichlorophenol	0.316	0.346	0.373	0.399	0.369	0.348	0.356	0.320	0.353	7.87
2-Chloronaphthalene	1.00	1.01	1.02	1.05	0.976	0.991	0.915	0.828	0.975	7.32
2-Nitroaniline	0.225	0.245	0.263	0.275	0.259	0.282	0.293	0.277	0.265	8.22

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 06/24/05

Calibration Times: 12:32

LAB FILE ID: RRF1.0 = 0624709.D RRF2.0 = 0624708.D RRF4.0 = 0624707.D RRF6.0 = 0624706.D

RRF8.0 = 0624705.D RRF12.0 = 0624704.D RRF24.0 = 0624703.D RRF48.0 = 0624702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline		0.016	0.023	0.026	0.026	0.039	0.106	0.158	0.056	96.3
1-Methylnaphthalene	1.20	1.21	1.20	1.21	1.10	1.14	1.01	0.883	1.12	10.5
Dimethylphthalate	1.14	1.14	1.13	1.17	1.08	1.13	1.08	1.03	1.11	4.16
Acenaphthylene	1.56	1.54	1.56	1.59	1.47	1.44	1.22	1.10	1.43	12.6
2,6-Dinitrotoluene	0.216	0.239	0.243	0.262	0.249	0.258	0.238	0.203	0.239	8.46
Acenaphthene	1.07	1.04	1.04	1.07	0.978	1.01	0.905	0.805	0.990	9.35
2,4-Dinitrophenol	0.110	0.121	0.133	0.146	0.131	0.148	0.146	0.139	0.134	10.0
4-Nitrophenol		0.027	0.081	0.095	0.094	0.111	0.114	0.113	0.091	33.9
Dibenzofuran	1.58	1.54	1.54	1.59	1.45	1.51	1.37	1.24	1.48	8.23
2,4-Dinitrotoluene	0.292	0.309	0.319	0.336	0.311	0.325	0.307	0.287	0.311	5.21
Fluorene	1.14	1.13	1.13	1.17	1.07	1.10	1.01	0.902	1.08	8.13
Diethylphthalate	1.14	1.14	1.14	1.17	1.09	1.11	1.02	0.942	1.09	7.03
4-Chlorophenyl phenyl ether	0.528	0.533	0.537	0.550	0.513	0.524	0.486	0.432	0.513	7.39
4-Nitroaniline		0.055	0.103	0.117	0.109	0.119	0.122	0.122	0.107	22.5
2-Fluorobiphenyl (surr)	1.16	1.16	1.17	1.20	1.10	1.12	1.03	0.910	1.11	8.57
2,4,6-Tribromophenol (surr)	0.093	0.111	0.122	0.134	0.124	0.138	0.134	0.127	0.123	12.0
4,6-Dinitro-2-methylphenol	0.052	0.088	0.101	0.116	0.108	0.121	0.119	0.109	0.102	22.4
Diphenylamine	0.402	0.382	0.347	0.327	0.291				0.350	12.6
4-bromophenyl phenyl ether	0.172	0.182	0.182	0.190	0.176	0.178	0.152	0.130	0.170	11.5
Hexachlorobenzene	0.180	0.184	0.179	0.188	0.174	0.181	0.169	0.152	0.176	6.39
Pentachlorophenol		0.047	0.078	0.097	0.097	0.113	0.122	0.113	0.095	27.0
Phenanthrene	1.08	1.06	1.06	1.08	1.00	1.02	0.929	0.823	1.01	8.85
Carbazole	0.611	0.544	0.380	0.312	0.273	0.208			0.388	40.8
Anthracene	1.01	1.02	1.01	1.05	0.967	0.985	0.899	0.789	0.966	8.69
Azobenzene	0.751	0.745	0.730	0.726	0.677	0.680	0.607	0.552	0.683	10.4
Di-n-Butylphthalate	1.20	1.24	1.24	1.27	1.19	1.18	1.09	0.938	1.17	9.25
Fluoranthene	0.917	0.931	0.969	1.01	0.933	0.963	0.890	0.809	0.927	6.44
alpha-BHC	0.129	0.132	0.129	0.129	0.119	0.119	0.105	0.089	0.119	12.5
beta-BHC	0.101	0.108	0.108	0.111	0.103	0.107	0.096	0.078	0.102	10.5
gamma-BHC	0.114	0.115	0.110	0.112	0.105	0.106	0.097	0.085	0.106	9.66
delta-BHC	0.093	0.098	0.099	0.104	0.097	0.099	0.091	0.081	0.095	7.59
Heptachlor	0.133	0.133	0.134	0.137	0.127	0.124	0.108	0.084	0.122	14.7
Aldrin	0.141	0.138	0.131	0.131	0.120	0.119	0.099		0.125	11.2
Heptachlor Epoxide	0.049	0.05	0.053	0.055	0.053	0.054	0.052	0.046	0.052	6.11
Endosulfan I	0.029	0.035	0.035	0.035	0.032	0.03	0.023		0.031	14.4

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 06/24/05

Calibration Times: 12:32

LAB FILE ID: RRF1.0 = 0624709.D RRF2.0 = 0624708.D RRF4.0 = 0624707.D RRF6.0 = 0624706.D

RRF8.0 = 0624705.D RRF12.0 = 0624704.D RRF24.0 = 0624703.D RRF48.0 = 0624702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.204	0.204	0.205	0.212	0.198	0.200	0.183	0.154	0.195	9.58
Dieldrin	0.187	0.184	0.173	0.176	0.161	0.157	0.123		0.166	13.2
Endrin	0.028	0.032	0.03	0.032	0.031	0.03	0.026	0.02	0.029	13.6
4,4'-DDD	0.350	0.369	0.372	0.385	0.357	0.381	0.348	0.299	0.358	7.61
Endosulfan Sulfate	0.044	0.048	0.052	0.053	0.048	0.046	0.042	0.037	0.046	10.9
4,4'-DDT	0.251	0.256	0.269	0.284	0.261	0.234	0.231	0.191	0.247	11.6
Endrin Ketone	0.035	0.04	0.039	0.04	0.037	0.038	0.036	0.034	0.038	6.28
Methoxychlor	0.477	0.501	0.531	0.550	0.514	0.437	0.421	0.339	0.471	14.7
Pyrene	1.65	1.63	1.53	1.56	1.49	1.47	1.28	1.19	1.48	11.0
Butylbenzylphthalate	0.804	0.841	0.818	0.851	0.833	0.848	0.821	0.762	0.822	3.54
Benzo[a]anthracene	1.19	1.20	1.19	1.24	1.16	1.20	1.13	1.06	1.17	4.55
3,3'-Dichlorobenzidine	0.02	0.061	0.115	0.141	0.133	0.148	0.196	0.236	0.131	52.2
Chrysene	1.15	1.12	1.11	1.14	1.05	1.09	1.05	1.06	1.10	3.64
Bis(2-ethylhexyl)phthalate	1.18	1.22	1.17	1.21	1.19	1.18	1.12	1.03	1.16	5.44
4-Terphenyl-d14 (surr)	1.02	1.05	0.997	1.05	1.02	1.05	0.973	0.845	1.00	6.83
Di-n-octylphthalate	2.38	2.70	2.52	2.71	2.78	3.41	2.92	2.29	2.72	12.9
Benzo[b]fluoranthene	1.05	1.20	1.21	1.33	1.27	1.46	1.41	1.37	1.29	10.2
Benzo[k]fluoranthene	1.50	1.51	1.41	1.36	1.31	1.59	1.31	1.12	1.39	10.8
Benzo[a]pyrene	0.908	0.980	1.04	1.10	1.04	1.15	1.09	1.02	1.04	7.39
Indeno(1,2,3-c,d)pyrene	0.411	0.420	0.574	0.630	0.615	0.600	0.733	0.774	0.595	21.8
Dibenzo[a,h]anthracene	0.312	0.416	0.569	0.645	0.624	0.631	0.729	0.737	0.583	25.5
Benzo[g,h,i]perylene	0.520	0.560	0.694	0.759	0.702	0.698	0.787	0.770	0.686	14.2

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 07/15/05 Time: 11:53

Lab File ID: 0715703.D Init. Calib. Date: 06/24/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 12:32

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.249	0.267		-7.2	
1,2-Dichlorobenzene	1.21	1.302		-7.2	
1,3-Dichlorobenzene	1.30	1.375		-6.2	
1,4-Dichlorobenzene	1.36	1.448		-6.4	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	1.12	1.202		-7.4	
2,4,5-Trichlorophenol	0.353	0.364		-3.1	
2,4,6-Trichlorophenol	0.323	0.338		-4.6	20.0
2,4-Dichlorophenol	0.228	0.235		-3.1	20.0
2,4-Dimethylphenol	0.250	0.252		-0.8	
2,4-Dinitrophenol	0.134	0.121	0.050	9.7	
2,4-Dinitrotoluene	0.311	0.328		-5.5	
2,6-Dinitrotoluene	0.239	0.257		-7.5	
2-Chloronaphthalene	0.975	1.056		-8.3	
2-Chlorophenol	1.23	1.279		-3.9	
2-Methylnaphthalene	0.614	0.661		-7.7	
2-Methylphenol	0.911	0.990		-8.7	
2-Nitroaniline	0.265	0.293		-10.6	
2-Nitrophenol	0.166	0.176		-6.0	20.0
3-, 4-Methylphenol	1.29	1.383		-7.0	
3-Nitroaniline	0.056	0.033		41.1	
4,6-Dinitro-2-methylphenol	0.102	0.099		2.9	
4-bromophenyl phenyl ether	0.170	0.189		-11.2	
4-Chloro-3-methylphenol	0.230	0.238		-3.5	20.0
4-Chloroaniline	0.091	0.079		13.2	
4-Chlorophenyl phenyl ether	0.513	0.546		-6.4	
4-Nitroaniline	0.107	0.114		-6.5	
4-Nitrophenol	0.091	0.080	0.050	12.1	
Acenaphthene	0.990	1.076		-8.7	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.43	1.601		-11.6	
Aldrin	0.125	0.134		-7.2	
alpha-BHC	0.119	0.131		-10.1	
Anthracene	0.966	1.044		-8.1	
Azobenzene	0.683	0.753		-10.2	
Benzoic Acid	0.141	0.099		29.8	
Benzo[a]anthracene	1.17	1.210		-3.2	
Benzo[a]pyrene	1.04	1.130		-8.5	20.0
Benzo[b]fluoranthene	1.29	1.327		-2.9	
Benzo[k]fluoranthene	1.39	1.654		-19.0	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 07/15/05 Time: 11:53

Lab File ID: 0715703.D Init. Calib. Date: 06/24/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 12:32

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Benzyl Alcohol	0.733	0.797		-8.7	
beta-BHC	0.102	0.109		-6.9	
Bis(2-chloroethoxy)methane	0.318	0.345		-8.5	
Bis(2-chloroethyl)ether	1.212	1.257		-3.7	
Bis(2-chloroisopropyl)ether	1.735	1.950		-12.4	
Bis(2-ethylhexyl)phthalate	1.163	1.152		0.9	
Butylbenzylphthalate	0.822	0.867		-5.5	
Carbazole	0.388	0.000#		100.0	
Chrysene	1.098	1.167		-6.3	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.095	0.099		-4.2	
Di-n-Butylphthalate	1.169	1.255		-7.4	
Di-n-octylphthalate	2.715	2.949		-8.6	20.0
Dibenzofuran	1.477	1.562		-5.8	
Dibenzo[a,h]anthracene	0.583	0.507		13.0	
Dieldrin	0.166	0.168		-1.2	
Diethylphthalate	1.094	1.157		-5.8	
Dimethylphthalate	1.113	1.172		-5.3	
Diphenylamine	0.350	0.414		-18.3	
Endosulfan I	0.031	0.034		-9.7	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.046	0.043		6.5	
Endrin	0.029	0.031		-6.9	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.038	0.032		15.8	
Fluoranthene	0.927	0.962		-3.8	20.0
Fluorene	1.081	1.156		-6.9	
gamma-BHC	0.106	0.112		-5.7	
Heptachlor	0.122	0.133		-9.0	
Heptachlor Epoxide	0.052	0.052		0.0	
Hexachlorobenzene	0.176	0.189		-7.4	
Hexachlorobutadiene	0.123	0.135		-9.8	20.0
Hexachlorocyclopentadiene	0.072	0.054	0.050	25.0	
Hexachloroethane	0.430	0.480		-11.6	
Indeno(1,2,3-c,d)pyrene	0.595	0.521		12.4	
Isophorone	0.430	0.456		-6.0	
Methoxychlor	0.471	0.446		5.3	
N-Nitrosodi-n-propylamine	0.628	0.691		-10.0	
N-Nitrosodimethylamine	0.579	0.632		-9.2	
Naphthalene	0.806	0.860		-6.7	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 07/15/05 Time: 11:53

Lab File ID: 0715703.D Init. Calib. Date: 06/24/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 12:32

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Naphthalene-D8	1.000	1.000		0.0	
Nitrobenzene	0.275	0.301		-9.5	
Pentachlorophenol	0.095	0.088		7.4	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	1.006	1.075		-6.9	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.560	1.706		-9.4	20.0
Pyrene	1.476	1.753		-18.8	
Pyridine	0.777	0.885		-13.9	
2,4,6-Tribromophenol	0.123	0.119		3.3	
2-Fluorobiphenyl	1.11	1.201		-8.6	
2-Fluorophenol	0.921	0.960		-4.2	
4-Terphenyl-d14	1.00	1.138		-13.8	
Nitrobenzene-d5	0.128	0.135		-5.5	
Phenol-d6	1.35	1.429		-5.5	

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS6 Date Analyzed: 07/15/05

Lab File ID (Standard): 0715703.D Time Analyzed: 11:53

Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	187864	6.18	755124	8.08	370172	10.83
	UPPER LIMIT	375728	6.68	1510248	8.58	740344	11.33
	LOWER LIMIT	93932	5.68	377562	7.58	185086	10.33
	EPA SAMPLE						
01	G161-2070-3H MS	177094	6.18	713182	8.08	339839	10.84
02	G161-2070-3I MSD	169514	6.18	688429	8.08	332904	10.84
03	G161-2070-3G	168113	6.18	678423	8.08	335923	10.83
04	LCS3238	162806	6.18	666439	8.08	318750	10.84
05	PB3238	177015	6.18	688370	8.08	348043	10.83
06	GMW-4	170686	6.18	687003	8.08	335098	10.83
07	GMW-5	172754	6.18	691140	8.08	337835	10.83
08							
09							
10							
11							
12							
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22							
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24							
25							
26							
27							
28							
29							
30							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS6 Date Analyzed: 07/15/05
Lab File ID (Standard): 0715703.D Time Analyzed: 11:53
Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	586725	13.19	315119	17.42	169826	19.53
	UPPER LIMIT	1173450	13.69	630238	17.92	339652	20.03
	LOWER LIMIT	293363	12.69	157560	16.92	84913	19.03
	EPA SAMPLE						
01	G161-2070-3H MS	537547	13.2	295488	17.42	170008	19.53
02	G161-2070-3I MSD	522153	13.2	295722	17.42	182619	19.53
03	G161-2070-3G	509276	13.19	246063	17.42	130959	19.53
04	LCS3238	509349	13.2	297263	17.42	178815	19.53
05	PB3238	535048	13.19	205070	17.42	96786	19.54
06	GMW-4	510703	13.19	249639	17.42	144079	19.53
07	GMW-5	515999	13.19	256193	17.42	145305	19.53
08							
09							
10							
11							
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25							
26							
27							
28							
29							
30							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER — Lab Sample ID: LCS3238

Sample wt/vol: 5 (mL) — Lab File ID: 0715723.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA — Date Analyzed: 07/15/05 23:21

Concentrated Extract Volume: 5 (mL) — Dilution Factor: 1

Injection Volume: 1 (µL) — Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	113	113*	61.6-101
208-96-8	Acenaphthylene	100	120	120*	66.1-116
120-12-7	Anthracene	100	111	111*	48.7-94.6
56-55-3	Benzo[a]anthracene	100	106	106*	67.4-101
50-32-8	Benzo[a]pyrene	100	120	120*	41.6-102
205-99-2	Benzo[b]fluoranthene	100	109	109*	37.4-108
191-24-2	Benzo[g,h,i]perylene	100	112	112	42.0-113
207-08-9	Benzo[k]fluoranthene	100	128	128*	29.6-126
65-85-0	Benzoic Acid	100	37.6	37.6	29.5-107
100-51-6	Benzyl Alcohol	100	88.1	88.1	61.6-98.5
111-91-1	Bis(2-chloroethoxy)methane	100	107	107*	56.4-10.0
111-44-4	Bis(2-chloroethyl)ether	100	97.7	97.7*	44.6-93.2
108-60-1	Bis(2-chloroisopropyl)ether	100	103	103*	53.5-102
117-81-7	Bis(2-ethylhexyl)phthalate	100	100	100	47.2-121
101-55-3	4-bromophenyl phenyl ether	100	114	114*	42.1-110
85-68-7	Butylbenzylphthalate	100	108	108	52.8-120
106-47-8	4-Chloroaniline	100	125	125*	10.0-248
59-50-7	4-Chloro-3-methylphenol	100	97.1	97.1	64.3-97.6
91-58-7	2-Chloronaphthalene	100	107	107*	59.0-100
95-57-8	2-Chlorophenol	100	89.8	89.8	56.9-93.4
7005-72-3	4-Chlorophenyl phenyl ether	100	111	111*	64.4-106
218-01-9	Chrysene	100	115	115*	65.8-106
84-74-2	Di-n-Butylphthalate	100	116	116*	61.8-110
117-84-0	Di-n-octylphthalate	100	93.0	93.0	21.0-118
53-70-3	Dibenzo[a,h]anthracene	100	92.7	92.7	40.6-112
132-64-9	Dibenzofuran	100	100	100	69.2-103
95-50-1	1,2-Dichlorobenzene	100	55.7	55.7	24.2-91.0
541-73-1	1,3-Dichlorobenzene	100	45.0	45.0	18.0-84.5
106-46-7	1,4-Dichlorobenzene	100	47.7	47.7	20.6-82.8
91-94-1	3,3'-Dichlorobenzidine	100	89.8	89.8*	10.0-360
120-83-2	2,4-Dichlorophenol	100	92.3	92.3	57.9-96.6
84-66-2	Diethylphthalate	100	118	118*	65.8-102
105-67-9	2,4-Dimethylphenol	100	84.0	84.0	18.2-110
131-11-3	Dimethylphthalate	100	112	112*	60.2-99.5
534-52-1	4,6-Dinitro-2-methylphenol	100	105	105*	40.4-103
51-28-5	2,4-Dinitrophenol	100	103	103	40.5-106
121-14-2	2,4-Dinitrotoluene	100	117	117*	63.7-101
606-20-2	2,6-Dinitrotoluene	100	119	119*	61.6-99.2
206-44-0	Fluoranthene	100	116	116*	64.0-103
86-73-7	Fluorene	100	114	114*	67.2-102
118-74-1	Hexachlorobenzene	100	114	114*	45.0-112

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) WATER Lab Sample ID: LCS3238
Sample wt/vol: 5 (mL) Lab File ID: 0715723.D
Level: (low/med) LOW
% Moisture: NA Decanted:(Y/N) NA Date Analyzed: 07/15/05 23:21
Concentrated Extract Volume: 5 (mL) Dilution Factor: 1
Injection Volume: 1 (µL) Extraction: (Type) CONT
GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	71.0	71.0	26.0-94.3
77-47-4	Hexachlorocyclopentadiene	100	65.9	65.9*	10.0-126
67-72-1	Hexachloroethane	100	41.7	41.7*	10.0-89.9
193-39-5	Indeno(1,2,3-c,d)pyrene	100	78.3	78.3	42.8-105
78-59-1	Isophorone	100	127	127*	62.3-112
90-12-0	1-Methylnaphthalene	100	101	101	58.1-105
91-57-6	2-Methylnaphthalene	100	91.2	91.2	57.9-103
95-48-7	2-Methylphenol	100	98.8	98.8*	58.9-96.1
108-39-4	4-Methylphenol	200	174	87.2	48.4-99.9
621-64-7	N-Nitrosodi-n-propylamine	100	120	120*	62.6-108
86-30-6	Diphenylamine	100	171	171*	10.0-214
91-20-3	Naphthalene	100	91.0	91.0	46.1-10.0
88-74-4	2-Nitroaniline	100	120	120	68.9-121
99-09-2	3-Nitroaniline	100	174	174*	10.0-649
100-01-6	4-Nitroaniline	100	103	103	50.1-137
98-95-3	Nitrobenzene	100	108	108*	52.4-97.2
88-75-5	2-Nitrophenol	100	92.8	92.8	49.9-93.7
100-02-7	4-Nitrophenol	100	75.9	75.9	53.7-125
87-86-5	Pentachlorophenol	100	73.6	73.6	37.0-102
85-01-8	Phenanthrene	100	113	113*	59.5-107
108-95-2	Phenol	100	95.7	95.7	57.4-99.5
129-00-0	Pyrene	100	127	127*	44.1-124
120-82-1	1,2,4-Trichlorobenzene	100	80.8	80.8	37.6-97.9
95-95-4	2,4,5-Trichlorophenol	100	96.0	96.0	59.4-96.8
88-06-2	2,4,6-Trichlorophenol	100	97.5	97.5*	57.6-94.8

Results for Metals

Client Sample ID:	GMW-4	Analyzed By:	RML
Client Project ID:	Gaddy Property	Date Collected:	7/12/2005 10:45
Lab Sample ID:	G161-2069-1	Date Received:	7/13/05
Lab Project ID:	G161-2069	Matrix:	WATER
Batch ID:	3246		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	**15.8**	5.00	25	UG/L	6020	7/21/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	GMW-5	Analyzed By:	RML
Client Project ID:	Gaddy Property	Date Collected:	7/12/2005 09:45
Lab Sample ID:	G161-2069-2	Date Received:	7/13/05
Lab Project ID:	G161-2069	Matrix:	WATER
Batch ID:	3246		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	7/21/05

Comments

BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL

Reviewed By: _____
MET_LIMS_3 3

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072105a MS Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (1)			CCV (2)			LIMITS
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	REC.
Aluminum	200	230.00	115.0	500			500			90-110
Antimony	60			5			5			90-110
Arsenic	10			5			5			90-110
Barium	200			5			5			90-110
Beryllium	5			5			5			90-110
Cadmium	5			5			5			90-110
Calcium	5000	4524.65	90.5	500	8.83	1.8	500	14.26	2.9	90-110
Chromium	10			5			5			90-110
Cobalt	50			5			5			90-110
Copper	25			5			5			90-110
Iron	100	103.14	103.1	500	2.03	0.4	500			90-110
Lead	5	4.85	96.9	5	5.00	100.0	5	5.06	101.2	90-110
Magnesium	5000	4680.24	93.6	500			500			90-110
Manganese	15			5			5			90-110
Nickel	40			5			5			90-110
Potassium	5000	4953.20	99.1	500	0.91	0.2	500	2.39	0.5	90-110
Selenium	5			5			5			90-110
Silver	10			5			5			90-110
Sodium	5000	4809.61	96.2	500	0.26	0.1	500	0.30	0.1	90-110
Thallium	10			5			5			90-110
Vanadium	50			5			5			90-110
Zinc	20			50			50			90-110

Comments:

FORM IIA - METALS

2A
INITIAL CALIBRATION AND CONTINUING CALIBRATION

Lab Name: Paradigm Analytical Initial Cal Source Environmental Express

Batch ID: 072105a MS Continuing Cal Source: Environmental Express

METAL	ICV (1A)			CCV (3)			CCV (4)			LIMITS REC.
	TV	FV	%REC	TV	FV	%REC	TV	FV	%REC	
Aluminum	200	230.00	115.0	500			500			90-110
Antimony	60			5			5			90-110
Arsenic	10			5			5			90-110
Barium	200			5			5			90-110
Beryllium	5			5			5			90-110
Cadmium	5			5			5			90-110
Calcium	5000	4524.65	90.5	500	13.59	2.7	500	14.00	2.8	90-110
Chromium	10			5			5			90-110
Cobalt	50			5			5			90-110
Copper	25			5			5			90-110
Iron	100	103.14	103.1	500			500	3.24	0.6	90-110
Lead	5	4.85	96.9	5	5.01	100.2	5	5.12	102.3	90-110
Magnesium	5000	4680.24	93.6	500			500	0.15	0.0	90-110
Manganese	15			5			5			90-110
Nickel	40			5			5			90-110
Potassium	5000	4953.20	99.1	500	1.36	0.3	500	2.13	0.4	90-110
Selenium	5			5			5			90-110
Silver	10			5			5			90-110
Sodium	5000	4809.61	96.2	500	0.34	0.1	500	0.94	0.2	90-110
Thallium	10			5			5			90-110
Vanadium	50			5			5			90-110
Zinc	20			50			50			90-110

Comments:

FORM IIA - METALS

3
BLANKS

Lab Name: Paradigm Analytical

Batch ID: 072105a MS

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)							
		C	2	C	3	C	4	C		
Aluminum	10	U	10	U	10	U	10	U		
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	10	U	10	U	10.098	#	10	U		
Chromium										
Cobalt										
Copper										
Iron	10	U	10	U	10	U	10	U		
Lead	0.1	U	0.1	U	0.1	U	0.1	U		
Magnesium	10	U	10	U	10	U	10	U		
Manganese										
Mercury										
Nickel										
Potassium	10	U	10	U	10	U	10	U		
Selenium										
Silver										
Sodium	10	U	10	U	10	U	10	U		
Thallium										
Vanadium										
Zinc										

Comments:

FORM III - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Paradigm Analytical ICS Source: Environmental Express

Batch ID: 072105a ICP ID Number: ICPMS 1

Concentration Units: ug/L

Analyte	TRUE Sol. A	TRUE Sol. B	Initial Found Sol. A	Initial Found Sol. B	%R	Final Found Sol. A	Final Found Sol. B	%R
Aluminum	5000	5000	4713.09	5230.26	104.6	4707.11	5203.41	104.1
Antimony	0	3	0	0	0.0	0	0	0.0
Arsenic	0	3	0	0	0.0	0	0	0.0
Barium	0	3	0	0	0.0	0	0	0.0
Beryllium	0	3	0	0	0.0	0	0	0.0
Cadmium	0	3	0	0	0.0	0	0	0.0
Calcium	5000	5000	4524.5	5046.83	100.9	4603.14	4945.51	98.9
Chromium	0	3	0	0	0.0	0	0	0.0
Cobalt	0	3	0	0	0.0	0	0	0.0
Copper	0	3	0	0	0.0	0	0	0.0
Iron	5000	5000	4727.75	4514.31	90.3	4701.97	4493.81	89.9
Lead	0	3	0.021	3.041	101.4	0.02	3.132	104.4
Magnesium	5000	5000	4602.74	5130.31	102.6	4515.94	5078.37	101.6
Manganese	0	3	0	0	0.0	0	0	0.0
Nickel	0	3	0	0	0.0	0	0	0.0
Potassium	5000	5000	4918.84	5419.85	n/a	4970.27	5390.64	n/a
Selenium	0	3	0	0	0.0	0	0	0.0
Silver	0	3	0	0	0.0	0	0	0.0
Sodium	5000	5000	4783.8	5287.51	n/a	4679.7	5276.74	n/a
Thallium	0	3	0	0	0.0	0	0	0.0
Vanadium	0	3	0	0	0.0	0	0	0.0
Zinc	0	30	0	0	0.0	0	0	0.0

FORM IV - METALS

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3246	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3246		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	7/21/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL

Reviewed By: _____

MS/MSD Results for METALS

Lab ID: G460-26-3
MS Lab ID: G460-26-3
MSD Lab ID: G460-26-3
ICP Batch: 3246
HG Batch:
Other:

Analyzed By: RML
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	BQL	0.400	0.357	89.3	0.400	0.365	91.3	75	125	2.2161	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: BNP

METALS Results for LCS/LCD

ICP Batch: 3246
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	0.40	0.347	86.7	0.342	85.5	80	120	1.45	20

Reviewed By: _____

601/602 Sample Raw Data

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\033F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-1a
Run Time Bar Code:
Acquired on : 16 Jul 05 00:56 AM
Report Created on: 16 Jul 05 08:02 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

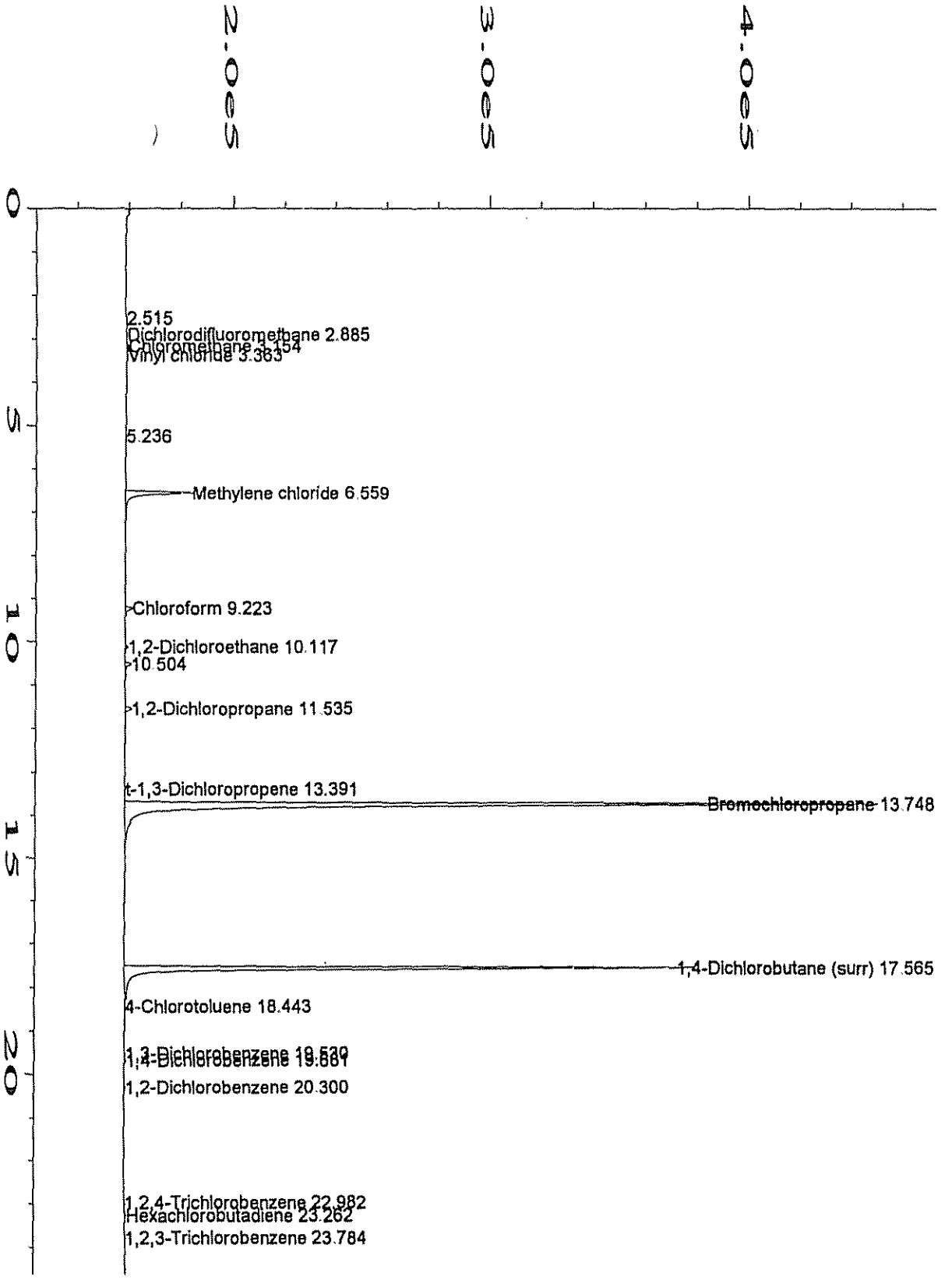
Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

MJC 7/16

Sig. 1 in C:\HPCHEM\1\DATA\071505\033F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.885	2259	BV	0.063	1	~~-0.748~~	Dichlorodifluoromethane
3.154	6728	PV	0.100	1	~~-0.766~~	Chloromethane
3.363	3047	VB	0.083	1	~~-1.013~~	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.680	* not found *			1		1,1-Dichloroethene
6.559	137040	BB	0.078	1	~~0.124~~	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.759	* not found *			1		1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.223	13377	BB	0.072	1	~~-0.811~~	Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.117	4676	BB	0.071	1	~~-0.707~~	1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.535	12915	BB	0.083	1	~~-0.874~~	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.391	1674	BB	0.062	1	~~0.240~~	t-1,3-Dichloropropene
13.748	1557579	BV	0.082	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.197	* not found *			1		Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.565	938163	BV	0.066	1	91.677	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.443	724	VB	0.075	1	-0.835	4-Chlorotoluene
19.530	1592	BV	0.063	1	-0.408	1,3-Dichlorobenzene
19.681	2459	VB	0.067	1	-0.764	1,4-Dichlorobenzene
20.300	1703	BB	0.057	1	-0.597	1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.982	872	BB	0.055	1	-0.362	1,2,4-Trichlorobenzene
23.262	2246	BB	0.056	1	-1.097	Hexachlorobutadiene
23.784	579	BB	0.040	1	-0.640	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\033F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 33
Sample Name	: g161-2069-1a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 00:56 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:02 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071605\020F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-2b
Run Time Bar Code:
Acquired on : 16 Jul 05 06:16 PM
Report Created on: 16 Jul 05 06:41 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

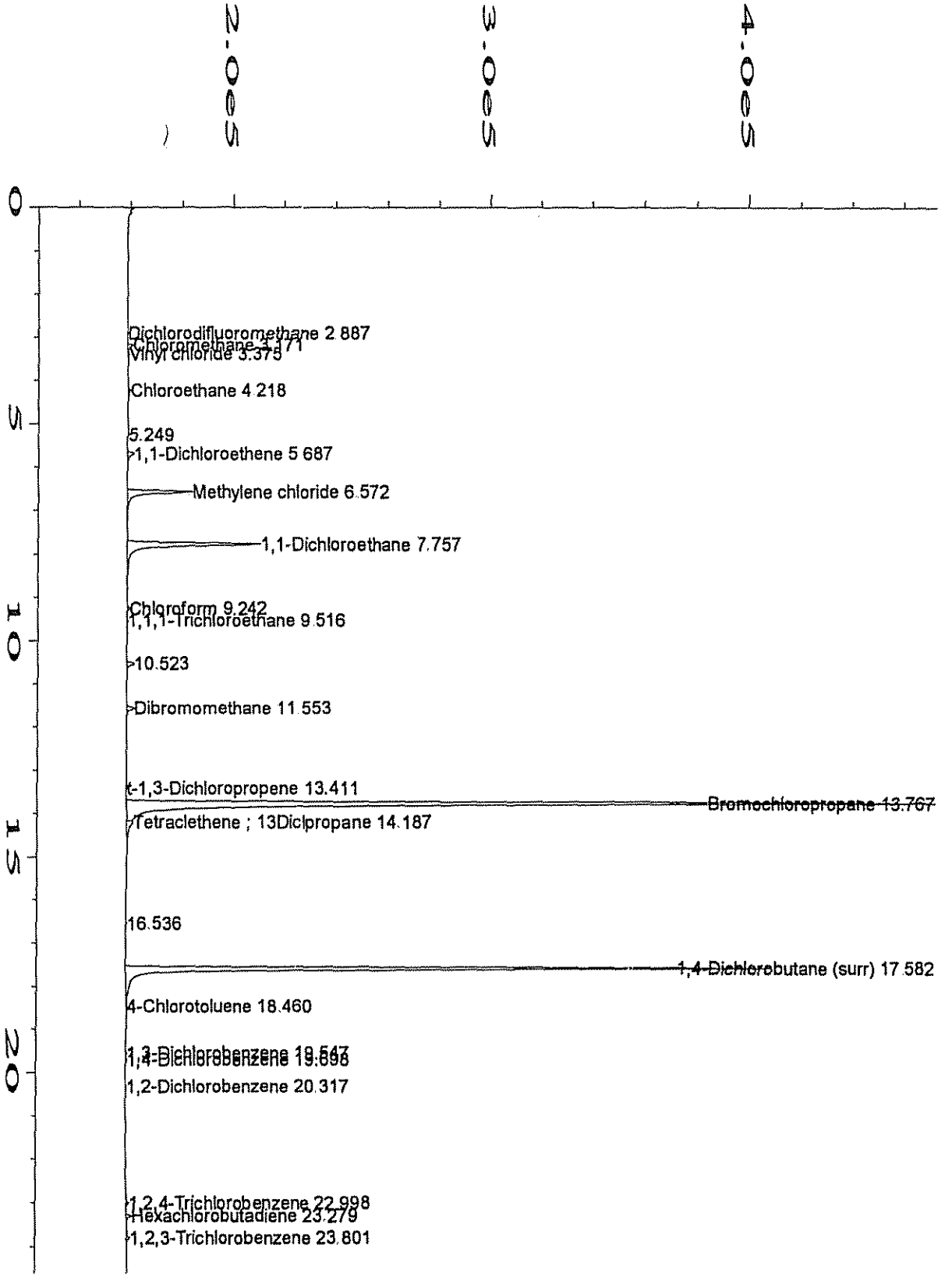
Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

MJC 7/17

Sig. 1 in C:\HPCHEM\1\DATA\071605\020F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.887	884	BB	0.051	1	~~-0.766~~	Dichlorodifluoromethane
3.171	10500	BV	0.069	1	~~-0.733~~	Chloromethane
3.375	3147	VB	0.083	1	~~-1.014~~	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.218	5549	BB	0.085	1	~~-0.691~~	Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.687	16015	BB	0.091	1	~~-0.566~~	1,1-Dichloroethene
6.572	130791	BB	0.078	1	~~0.0355~~	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.757	296921	BB	0.084	1	1.123	1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.242	5384	BV	0.075	1	~~-0.857~~	Chloroform
9.516	1752	VB	0.091	1	~~-0.829~~	1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.457	* not found *			1		1,2-Dichloropropane
11.553	15053	BB	0.077	1	~~-0.0246~~	Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.411	2336	BB	0.068	1	~~-0.248~~	t-1,3-Dichloropropene
13.767	1641348	BV	0.080	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.187	34310	VV	0.153	1	~~-2.065~~	Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.582	1043059	BV	0.066	1	'96.725	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.460	1544	VB	0.075	1	-0.823	4-Chlorotoluene
19.547	1658	BV	0.064	1	-0.408	1,3-Dichlorobenzene
19.698	1606	VB	0.056	1	-0.775	1,4-Dichlorobenzene
20.317	1270	BB	0.059	1	-0.604	1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.998	4523	BV	0.056	1	-0.303	1,2,4-Trichlorobenzene
23.279	8518	PB	0.064	1	-1.027	Hexachlorobutadiene
23.801	5876	BB	0.063	1	-0.526	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\020F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 20
Sample Name	: g161-2069-2b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 06:16 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 06:41 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

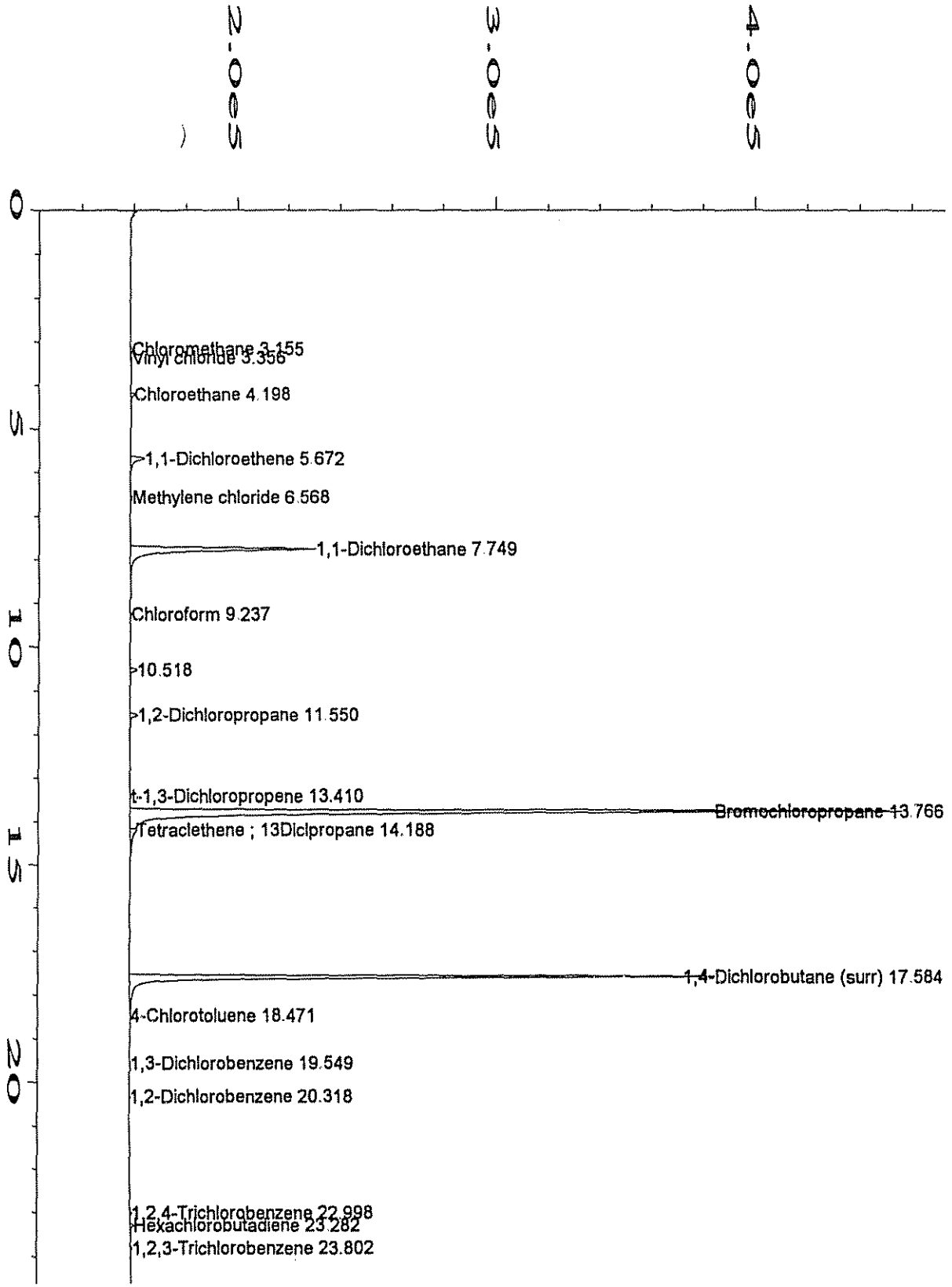
Data File Name : C:\HPCHEM\1\DATA\071605\021F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-3b
Run Time Bar Code:
Acquired on : 16 Jul 05 06:47 PM
Report Created on: 16 Jul 05 07:12 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\021F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.855	* not found *			1		Dichlorodifluoromethane
3.155	4825	BV	0.081	1	~~-0.786~~	Chloromethane
3.356	2935	VB	0.080	1	~~-1.015~~	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.198	8285	BB	0.086	1	~~-0.657~~	Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.672	35764	BB	0.094	1	~~-0.422~~	1,1-Dichloroethene
6.568	4564	BB	0.081	1	~~-0.782~~	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.749	417899	BV	0.084	1	1.995	1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.237	2706	BB	0.072	1	~~-0.870~~	Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.550	15047	BB	0.081	1	~~-0.858~~	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.410	2254	BB	0.069	1	~~0.248~~	t-1,3-Dichloropropene
13.766	1567896	BV	0.078	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.188	34599	VB	0.157	1	~~-2.049~~	Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.584	944494	BV	0.063	1	91.688	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.471	1230	VB	0.078	1	-0.827	4-Chlorotoluene
19.549	1040	BV	0.057	1	-0.415	1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.318	1082	BB	0.057	1	-0.606	1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.998	607	BB	0.021	1	-0.366	1,2,4-Trichlorobenzene
23.282	5941	BV	0.065	1	-1.053	Hexachlorobutadiene
23.802	3771	VB	0.066	1	-0.568	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\021F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 21
Sample Name	: g161-2069-3b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 06:47 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:12 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

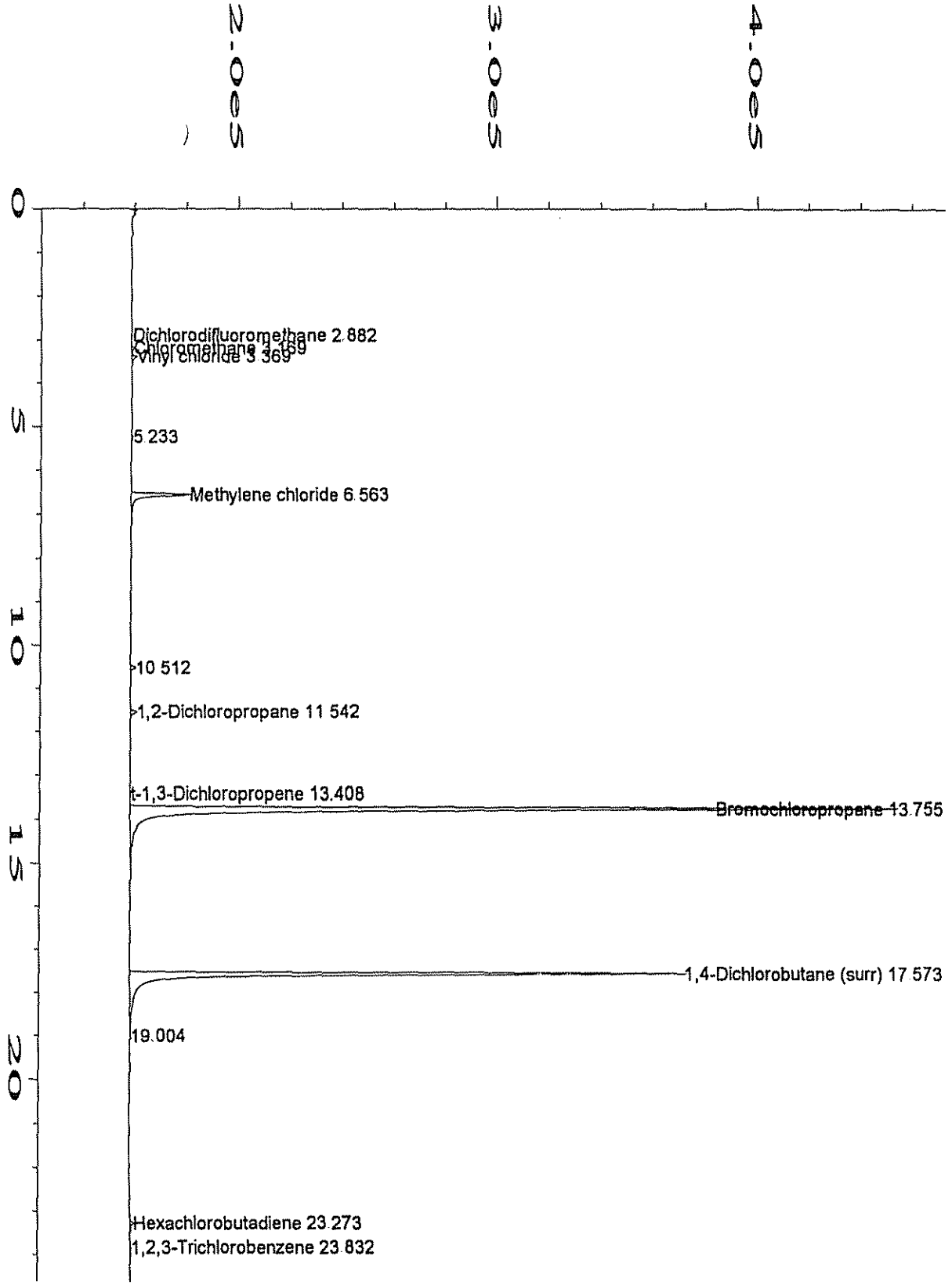
Data File Name : C:\HPCHEM\1\DATA\071505\026F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-4a
Run Time Bar Code:
Acquired on : 15 Jul 05 09:23 PM
Report Created on: 16 Jul 05 08:01 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\026F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.882	1949	BB	0.047	1	-0.754	Dichlorodifluoromethane
3.169	4829	BV	0.079	1	-0.789	Chloromethane
3.369	10106	VB	0.070	1	-0.938	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.680	* not found *			1		1,1-Dichloroethene
6.563	118944	BB	0.075	1	-0.0493	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.759	* not found *			1		1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.234	* not found *			1		Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.542	12265	BB	0.075	1	-0.886	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.408	1950	BB	0.071	1	0.242	t-1,3-Dichloropropene
13.755	1658383	BB	0.082	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.197	* not found *			1		Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.573	1045517	BV	0.070	1	95.957	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.451	* not found *			1		4-Chlorotoluene
19.532	* not found *			1		1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.308	* not found *			1		1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.989	* not found *			1		1,2,4-Trichlorobenzene
23.273	7054	BB	0.070	1	-1.045	Hexachlorobutadiene
23.832	2041	BB	0.077	1	-0.609	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\026F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 26
Sample Name	: g161-2069-4a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 09:23 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 08:01 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\034R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-1a x5
Run Time Bar Code:
Acquired on : 16 Jul 05 01:27 AM
Report Created on: 16 Jul 05 08:02 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

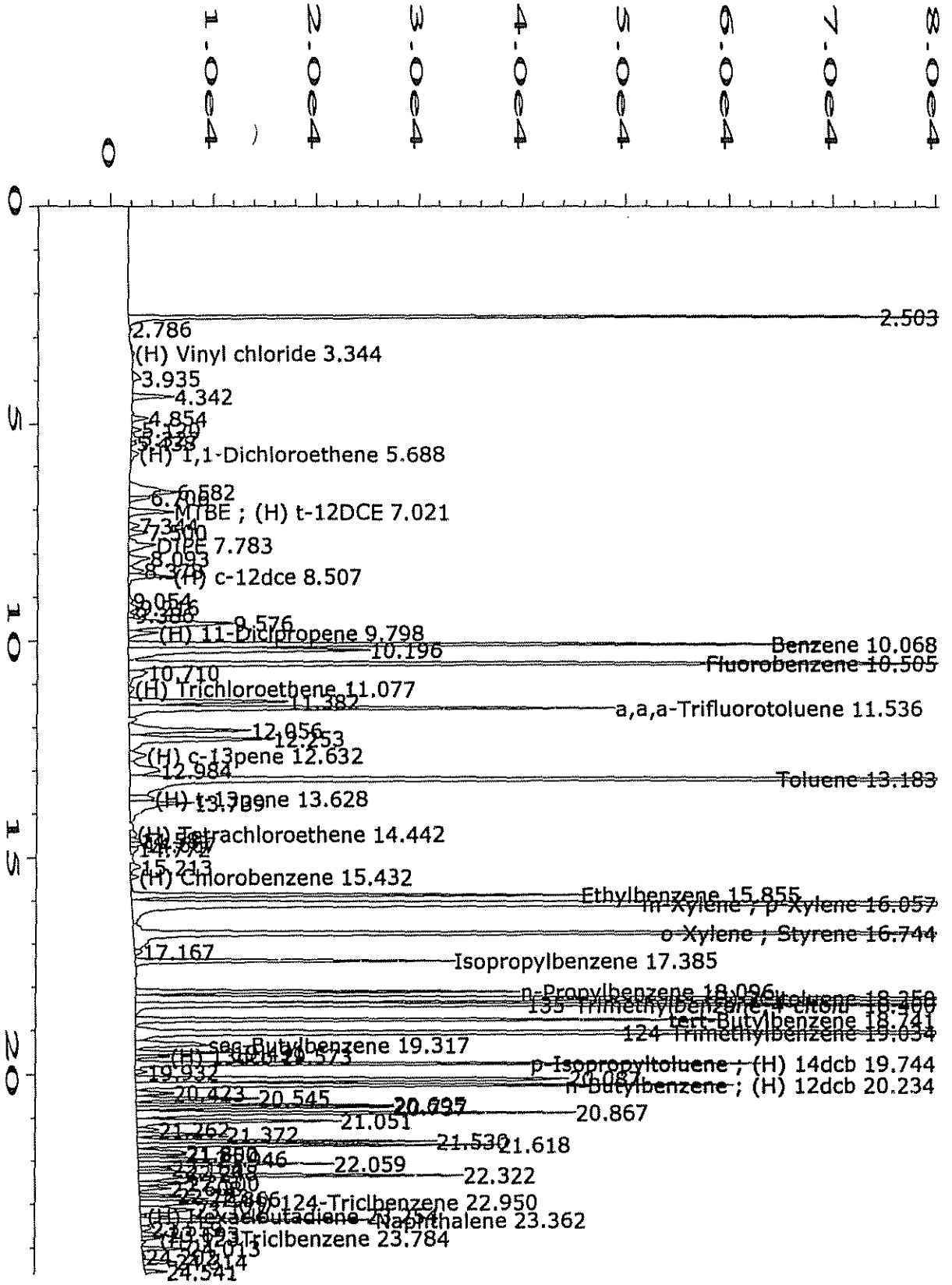
mjc 7/16

Sig. 2 in C:\HPCHEM\1\DATA\071505\034R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.344	2658	BB	0.118	1	~~-0.427~~	(H) Vinyl chloride
5.688	6737	PV	0.121	1	~~0.188~~	(H) 1,1-Dichloroethene
7.021	24857	PV	0.088	1	0.954	MTBE ; (H) t-12DCE
7.783	21326	VV	0.109	1	1.478	DIPE
8.507	23364	VV	0.082	1	~~1.405~~	(H) c-12dce
9.798	16250	VV	0.084	1	~~1.008~~	(H) 11-Diclpropene
10.068	275092	PV	0.063	1	8.082	Benzene
10.505	369478	VV	0.063	1-I	40.000	Fluorobenzene
11.077	4037	VV	0.097	1	~~0.0176~~	(H) Trichloroethene
11.536	221625	VV	0.072	1	111.218	a,a,a-Trifluorotoluene
12.632	14817	VV	0.132	1	~~2.519~~	(H) c-13pene
13.183	723248	VV	0.067	1	23.348	Toluene
13.628	15389	VV	0.091	1	~~2.796~~	(H) t-13pene
14.442	5580	VV	0.122	1	~~-0.185~~	(H) Tetrachloroethene
15.432	3943	VV	0.073	1	~~-0.0360~~	(H) Chlorobenzene
15.855	166460	PV	0.059	1	5.857	Ethylbenzene
16.057	1640244	VV	0.060	1	52.595	m-Xylene ; p-Xylene
16.744	521124	VV	0.060	1	19.811	o-Xylene ; Styrene
17.385	115490	PV	0.058	1	~~5.294~~	Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.096	130235	BV	0.055	1	5.333	n-Propylbenzene
18.250	606631	VV	0.066	1	23.335	(H) 2Cltoluene
18.400	438042	VV	0.055	1	14.043	135-Trimethylbenzene;4-cltolu
18.741	201020	VV	0.055	1	11.000	tert-Butylbenzene
19.034	954724	VV	0.052	1	36.411	124-Trimethylbenzene
19.317	46796	VV	0.090	1	2.278	sec-Butylbenzene
19.573	11230	VV	0.051	1	0.0491	(H) 13dcb
19.744	204156	VV	0.052	1	16.589	p-Isopropyltoluene ; (H) 14dcb
20.234	236151	VV	0.062	1	13.896	n-Butylbenzene ; (H) 12dcb
22.950	44651	VV	0.068	1	5.212	(H) 124-Triclbenzene
23.254	2037	VV	0.048	1	-0.275	(H) Hexaclbutadiene
23.362	79262	VV	0.052	1	12.614	Naphthalene
23.784	6210	VV	0.052	1	0.954	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\034R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 34
Sample Name	: g161-2069-1a x5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 01:27 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 08:02 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\035R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-2a x20
Run Time Bar Code:
Acquired on : 16 Jul 05 01:57 AM
Report Created on: 16 Jul 05 08:02 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

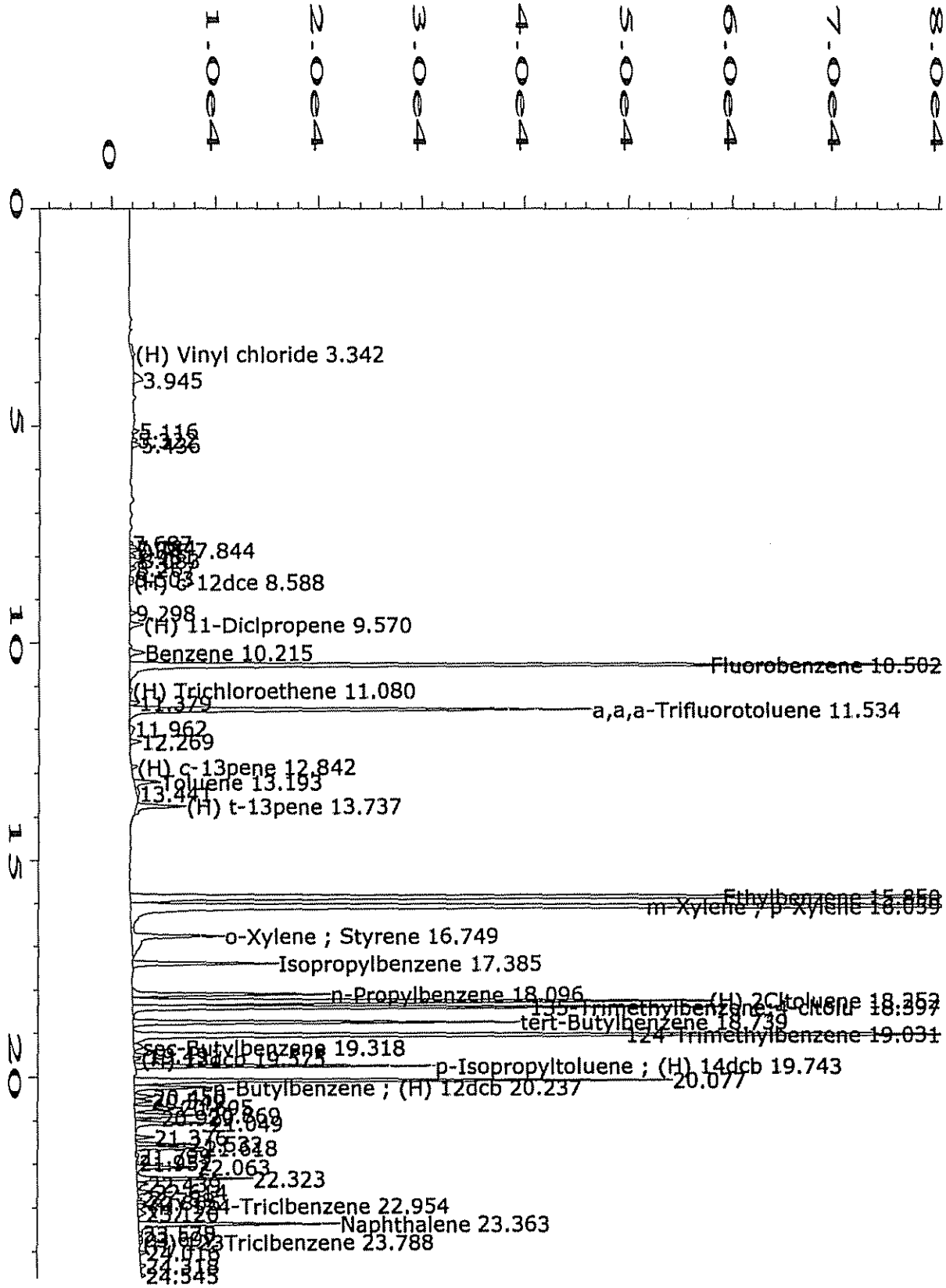
Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\035R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.342	4354	BV	0.161	1	-0.0964	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.040	* not found *			1		MTBE ; (H) t-12DCE
7.844	3473	VV	0.069	1	0.199	DIPE
8.588	1949	VB	0.065	1	-0.00123	(H) c-12dce
9.570	7472	BV	0.083	1	0.401	(H) 11-Diclpropene
10.215	8644	VV	0.083	1	0.0558	Benzene
10.502	352176	VV	0.063	1-I	40.000	Fluorobenzene
11.080	1918	VB	0.103	1	-0.0885	(H) Trichloroethene
11.534	193626	VV	0.067	1	101.941	a,a,a-Trifluorotoluene
12.842	1757	BB	0.053	1	0.401	(H) c-13pene
13.193	12047	BV	0.070	1	0.244	Toluene
13.737	23321	BB	0.072	1	4.181	(H) t-13pene
14.184	* not found *			1		(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.850	611424	BV	0.058	1	23.364	Ethylbenzene
16.059	974376	VV	0.060	1	32.529	m-Xylene ; p-Xylene
16.749	56157	VV	0.088	1	1.866	o-Xylene ; Styrene
17.385	53482	PV	0.059	1	2.456	Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.096	69701	BV	0.054	1	2.877	n-Propylbenzene
18.252	275480	VV	0.070	1	10.935	(H) 2Cltoluene
18.397	205616	VV	0.056	1	6.504	135-Trimethylbenzene;4-cltolu
18.739	133375	VV	0.055	1	7.549	tert-Butylbenzene
19.031	432061	VV	0.053	1	17.163	124-Trimethylbenzene
19.318	6206	VV	0.094	1	0.0704	sec-Butylbenzene
19.575	2371	VV	0.053	1	-0.449	(H) 13dcb
19.743	96762	PV	0.052	1	7.990	p-Isopropyltoluene ; (H) 14dcb
20.237	30920	VV	0.061	1	1.523	n-Butylbenzene ; (H) 12dcb
22.954	4970	VV	0.065	1	0.633	(H) 124-Triclbenzene
23.272	* not found *			1		(H) Hexaclbutadiene
23.363	68038	VV	0.053	1	11.397	Naphthalene
23.788	1358	VB	0.057	1	0.184	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\035R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 35
Sample Name	: g161-2069-2a x20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 01:57 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:02 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\036R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-3a x25
Run Time Bar Code:
Acquired on : 16 Jul 05 02:28 AM
Report Created on: 16 Jul 05 08:02 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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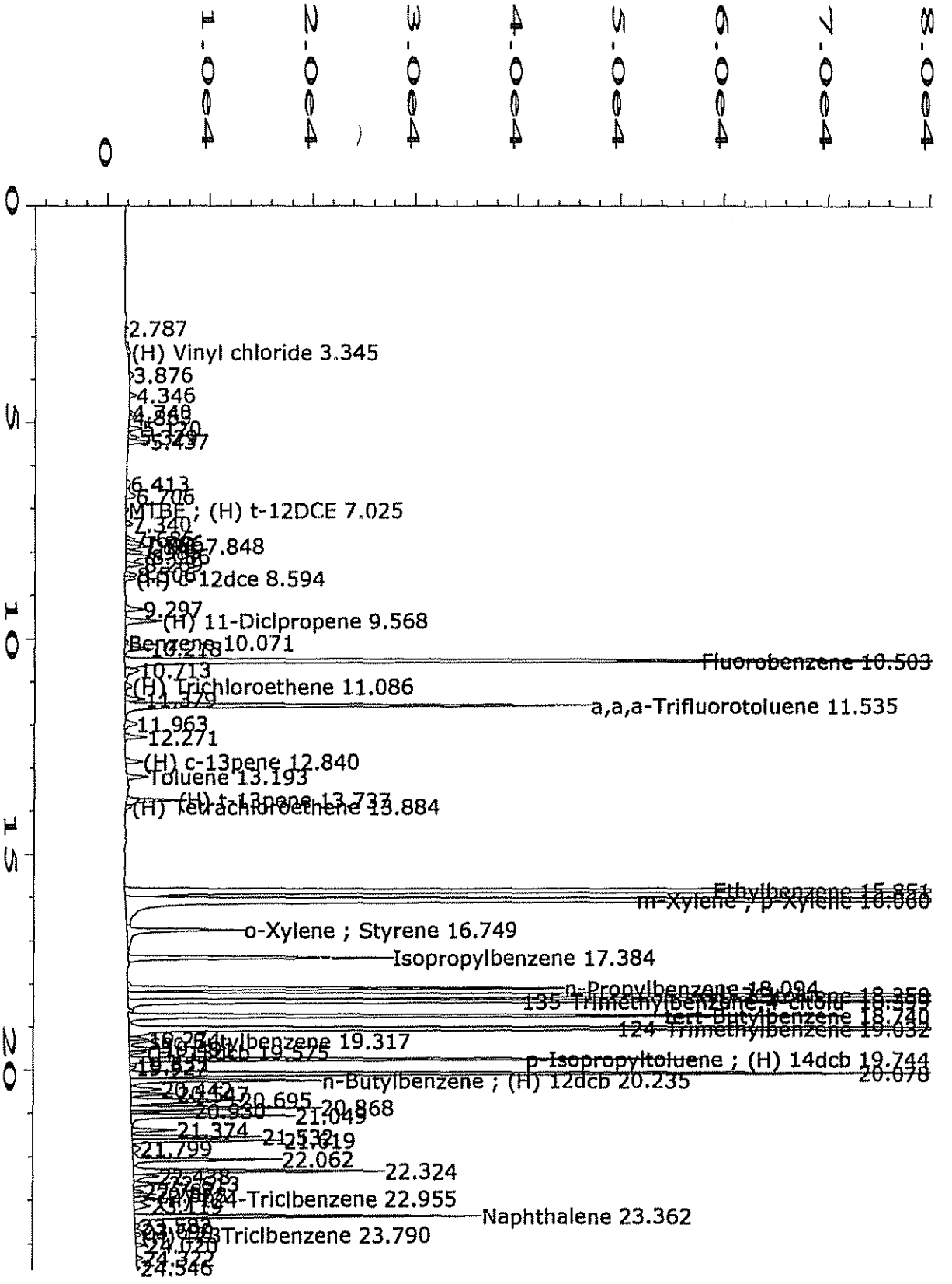
Sig. 2 in C:\HPCHEM\1\DATA\071505\036R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.345	4508	BB	0.151	1	~~-0.0684~~	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.025	1852	PB	0.075	1	~~-0.273~~	MTBE ; (H) t-12DCE
7.848	10390	VV	0.071	1	~~0.724~~	DIPE
8.594	5377	VB	0.066	1	~~0.236~~	(H) c-12dce
9.568	19379	VB	0.083	1	~~1.302~~	(H) 11-Diclpropene
10.071	1380	BV	0.067	1	~~-0.174~~	Benzene
10.503	352164	VV	0.062	1-I	40.000	Fluorobenzene
11.086	4829	VV	0.108	1	~~0.0716~~	(H) Trichloroethene
11.535	197597	VV	0.068	1	104.035	a,a,a-Trifluorotoluene
12.840	7563	BB	0.068	1	~~1.396~~	(H) c-13pene
13.193	8807	BV	0.066	1	~~0.133~~	Toluene
13.737	23437	BV	0.071	1	~~4.199~~	(H) t-13pene
13.884	3537	VB	0.083	1	~~0.0573~~	(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.851	943112	BV	0.058	1	36.191	Ethylbenzene
16.060	1451671	VV	0.060	1	48.790	m-Xylene ; p-Xylene
16.749	56753	VV	0.072	1	1.890	o-Xylene ; Styrene
17.384	97337	PV	0.058	1	~~4.655~~	Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.094	151107	BV	0.054	1	6.560	n-Propylbenzene
18.250	548124	VV	0.071	1	22.103	(H) 2Cltoluene
18.399	412338	VV	0.055	1	13.859	135-Trimethylbenzene;4-cltolu
18.740	247702	VV	0.055	1	14.326	tert-Butylbenzene
19.032	830044	VV	0.053	1	33.191	124-Trimethylbenzene
19.317	8833	VV	0.061	1	0.221	sec-Butylbenzene
19.575	6274	VV	0.055	1	-0.216	(H) 13dcb
19.744	183835	VV	0.052	1	15.643	p-Isopropyltoluene ; (H) 14dcb
20.235	75471	VV	0.061	1	4.362	n-Butylbenzene ; (H) 12dcb
22.955	9838	VV	0.063	1	1.226	(H) 124-Triclbenzene
23.272	* not found *			1		(H) Hexaclbutadiene
23.362	113546	PV	0.051	1	18.769	Naphthalene
23.790	2217	VV	0.055	1	0.329	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\036R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 36
Sample Name	: g161-2069-3a x25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 02:28 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:02 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\026R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-4a
Run Time Bar Code:
Acquired on : 15 Jul 05 09:23 PM
Report Created on: 16 Jul 05 08:01 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

MJL 7/16

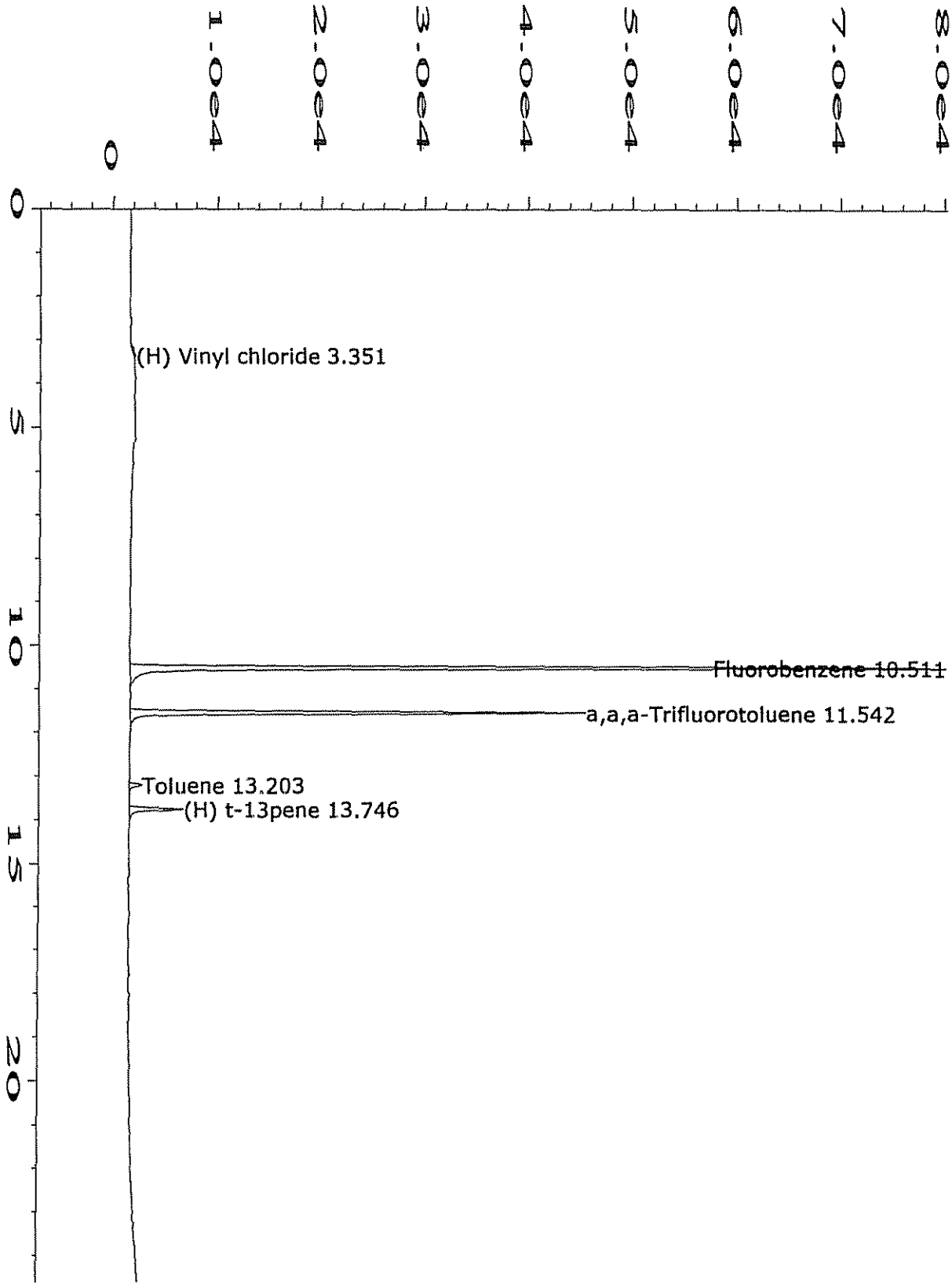
Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\026R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.351	2241	BV	0.125	1	-0.478	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.040	* not found *			1		MTBE ; (H) t-12DCE
7.898	* not found *			1		DIPE
8.710	* not found *			1		(H) c-12dce
9.765	* not found *			1		(H) 11-Diclpropene
10.089	* not found *			1		Benzene
10.511	350422	BV	0.062	1-I	40.000	Fluorobenzene
11.108	* not found *			1		(H) Trichloroethene
11.542	189010	BB	0.067	1	100.009	a,a,a-Trifluorotoluene
12.634	* not found *			1		(H) c-13pene
13.203	6055	BB	0.072	1	0.0403	Toluene
13.746	24751	BB	0.072	1	4.429	(H) t-13pene
14.184	* not found *			1		(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.875	* not found *			1		Ethylbenzene
16.082	* not found *			1		m-Xylene ; p-Xylene
16.783	* not found *			1		o-Xylene ; Styrene
17.406	* not found *			1		Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.116	* not found *			1		n-Propylbenzene
18.260	* not found *			1		(H) 2Cltoluene
18.433	* not found *			1		135-Trimethylbenzene;4-cltolu
18.969	* not found *			1		tert-Butylbenzene
19.055	* not found *			1		124-Trimethylbenzene
19.343	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.677	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.294	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.983	* not found *			1		(H) 124-Triclbenzene
23.272	* not found *			1		(H) Hexaclbutadiene
23.382	* not found *			1		Naphthalene
23.784	* not found *			1		(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\026R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 26
Sample Name	: g161-2069-4a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 09:23 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:01 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 Calibration Raw Data

Internal Standard Report

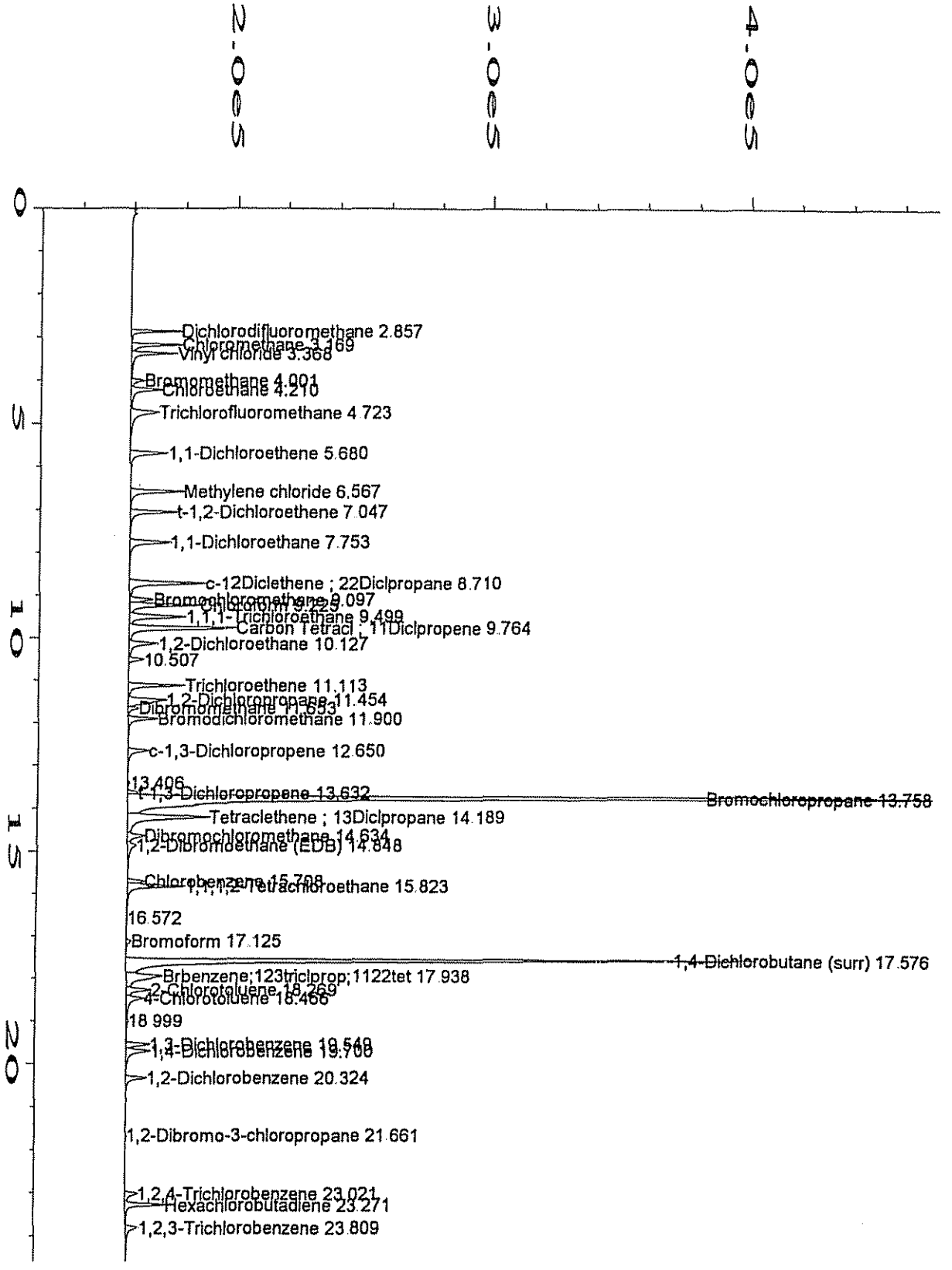
Data File Name : C:\HPCHEM\1\DATA\071505\007F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v0.5
Run Time Bar Code:
Acquired on : 15 Jul 05 11:40 AM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

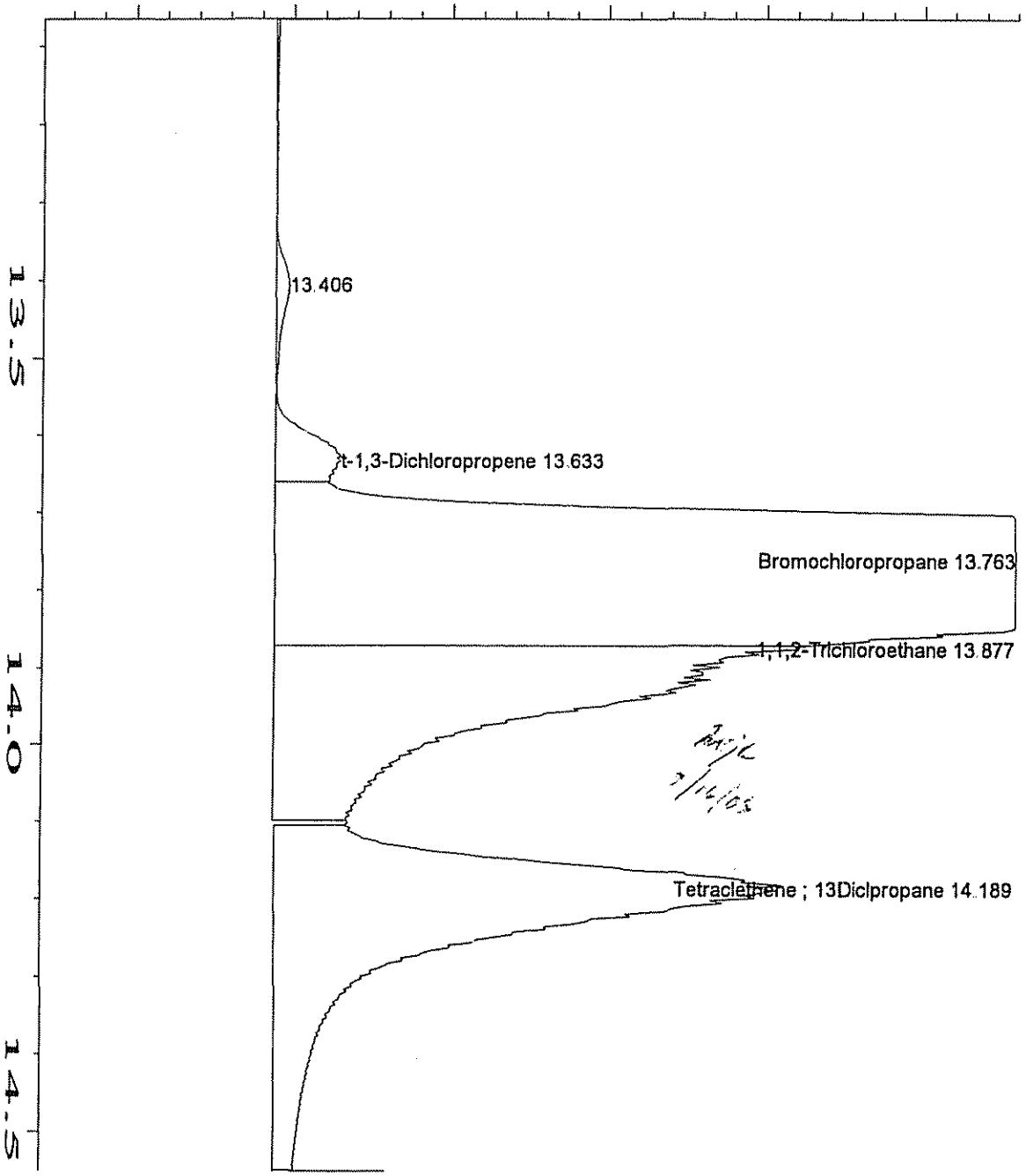
Sig. 1 in C:\HPCHEM\1\DATA\071505\007F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.857	60396	BV	0.045	1	-0.169	Dichlorodifluoromethane
3.169	77908	VV	0.053	1	-0.170	Chloromethane
3.368	84567	VV	0.066	1	-0.228	Vinyl chloride
4.001	27098	VV	0.072	1	0.169	Bromomethane
4.210	72112	VV	0.084	1	-0.0752	Chloroethane
4.723	93657	VB	0.107	1	-0.0678	Trichlorofluoromethane
5.680	87578	BB	0.082	1	-0.159	1,1-Dichloroethene
6.567	107604	BV	0.075	1	-0.203	Methylene chloride
7.047	98073	VV	0.077	1	-0.197	t-1,2-Dichloroethene
7.753	96212	VB	0.088	1	-0.197	1,1-Dichloroethane
8.710	168632	BV	0.079	1	-0.632	c-12Diclethene ; 22Diclpropane
9.097	41592	VV	0.064	1	-0.0193	Bromochloromethane
9.225	136645	VV	0.076	1	-0.258	Chloroform
9.499	120390	VV	0.079	1	-0.248	1,1,1-Trichloroethane
9.764	210261	VV	0.075	1	-0.872	Carbon Tetracl ; 11Diclpropene
10.127	69675	VV	0.083	1	-0.197	1,2-Dichloroethane
11.113	102173	BV	0.068	1	-0.259	Trichloroethene
11.454	108873	VV	0.097	1	-0.238	1,2-Dichloropropane
11.653	22339	VV	0.072	1	0.0576	Dibromomethane
11.900	61113	VB	0.074	1	-0.0729	Bromodichloromethane
12.650	50152	BB	0.083	1	-0.0494	c-1,3-Dichloropropene
13.632	16036	VV	0.058	1	0.408	t-1,3-Dichloropropene
13.758	1877377	VV	0.082	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.189	229841	VV	0.095	1	-0.706	Tetraclethene ; 13Diclpropane
14.634	43476	VV	0.088	1	0.0325	Dibromochloromethane
14.848	36347	VB	0.138	1	-0.0393	1,2-Dibromoethane (EDB)
15.708	26776	BV	0.062	1	0.113	Chlorobenzene
15.823	121225	VV	0.077	1	-0.280	1,1,1,2-Tetrachloroethane
17.125	12747	BV	0.082	1	0.493	Bromoform
17.576	1089949	PV	0.064	1	88.366	1,4-Dichlorobutane (surr)
17.938	124900	VV	0.114	1	0.00965	Brbenzene;123triclprop;1122tet
18.269	52481	VV	0.074	1	-0.000838	2-Chlorotoluene
18.466	58128	VV	0.109	1	-0.0482	4-Chlorotoluene
19.549	43578	BV	0.068	1	0.0191	1,3-Dichlorobenzene
19.700	65567	VV	0.093	1	-0.164	1,4-Dichlorobenzene
20.324	44116	PV	0.077	1	-0.112	1,2-Dichlorobenzene
21.661	3738	BB	0.099	1	0.568	1,2-Dibromo-3-chloropropane
23.021	30652	BV	0.082	1	0.0613	1,2,4-Trichlorobenzene
23.271	78050	VV	0.068	1	-0.346	Hexachlorobutadiene
23.809	35060	VB	0.093	1	0.00903	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



ta File Name	: C:\HPCHEM\1\DATA\071505\007F0101.D		
erator	: MJC	Page Number	: 1
strument	: GC3	Vial Number	: 7
mple Name	: v0.5	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 15 Jul 05 11:40 AM	Instrument Method	: 8021_HAL.MTH
port Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
st Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	: 40



User modified

ata File Name	: C:\HPCHEM\1\DATA\071505\007F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 7
ample Name	: v0.5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 11:40 AM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 16 Jul 05 07:37 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 06 JUN 05 05:42 PM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

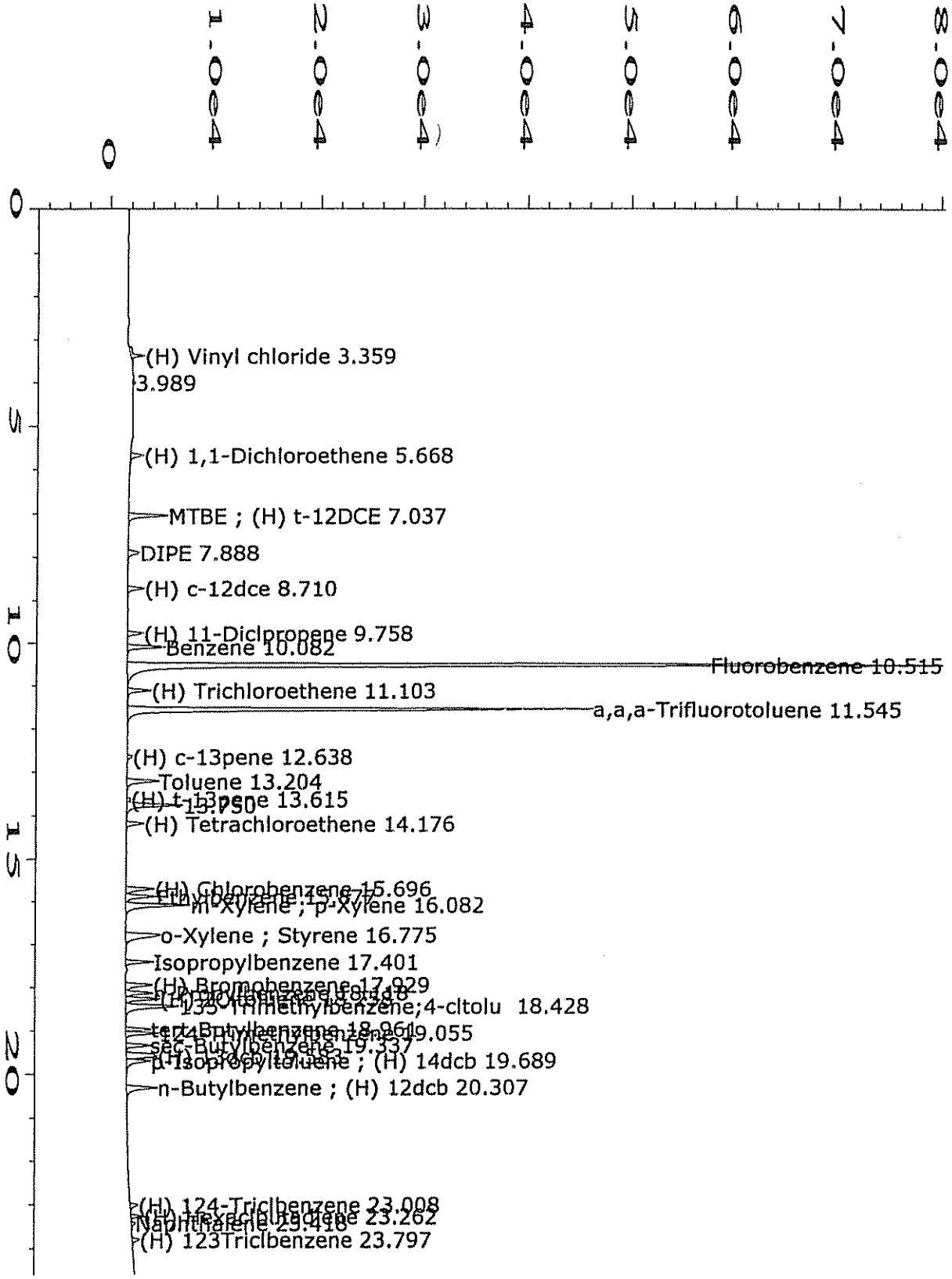
Data File Name : C:\HPCHEM\1\DATA\071505\007R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v0.5
Run Time Bar Code:
Acquired on : 15 Jul 05 11:40 AM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\007R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.359	6854	BB	0.072	1	0.334	(H) Vinyl chloride
5.668	6370	BB	0.075	1	0.175	(H) 1,1-Dichloroethene
7.037	17258	BB	0.067	1	0.575	MTBE ; (H) t-12DCE
7.888	6022	BB	0.081	1	0.384	DIPE
8.710	7010	BB	0.069	1	0.340	(H) c-12dce
9.758	6477	BB	0.065	1	0.316	(H) 11-Diclpropene
10.082	15533	BB	0.065	1	0.265	Benzene
10.515	358906	BV	0.063	1-I	40.000	Fluorobenzene
11.103	9822	VB	0.064	1	0.336	(H) Trichloroethene
11.545	193521	BV	0.067	1	99.975	a,a,a-Trifluorotoluene
12.638	2430	BB	0.073	1	0.509	(H) c-13pene
13.204	14637	BB	0.072	1	0.323	Toluene
13.615	1626	BV	0.066	1	0.704	(H) t-13pene
14.176	6940	BB	0.065	1	0.292	(H) Tetrachloroethene
15.696	12780	BV	0.070	1	0.348	(H) Chlorobenzene
15.877	13393	VV	0.069	1	0.229	Ethylbenzene
16.082	30383	VB	0.073	1	0.352	m-Xylene ; p-Xylene
16.775	23197	BB	0.104	1	0.506	o-Xylene ; Styrene
17.401	9985	BV	0.059	1	0.266	Isopropylbenzene
17.929	11817	BV	0.067	1	0.310	(H) Bromobenzene
18.118	11016	VV	0.060	1	0.220	n-Propylbenzene
18.258	12974	VV	0.060	1	0.173	(H) 2Cltoluene
18.428	29491	VB	0.081	1	0.220	135-Trimethylbenzene;4-cltolu
18.961	8812	BV	0.057	1	0.155	tert-Butylbenzene
19.055	12477	VV	0.060	1	0.257	124-Trimethylbenzene
19.337	8850	PV	0.060	1	0.213	sec-Butylbenzene
19.583	18442	VV	0.085	1	0.491	(H) 13dcb
19.689	11878	VB	0.071	1	0.510	p-Isopropyltoluene ; (H) 14dcb
20.307	15052	BB	0.075	1	0.494	n-Butylbenzene ; (H) 12dcb
23.008	3145	BV	0.065	1	0.404	(H) 124-Triclbenzene
23.262	4095	PV	0.054	1	0.0553	(H) Hexaclbutadiene
23.418	1759	PB	0.069	1	0.655	Naphthalene
23.797	3111	BB	0.065	1	0.470	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\071505\007R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 7
ample Name	: v0.5	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 11:40 AM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

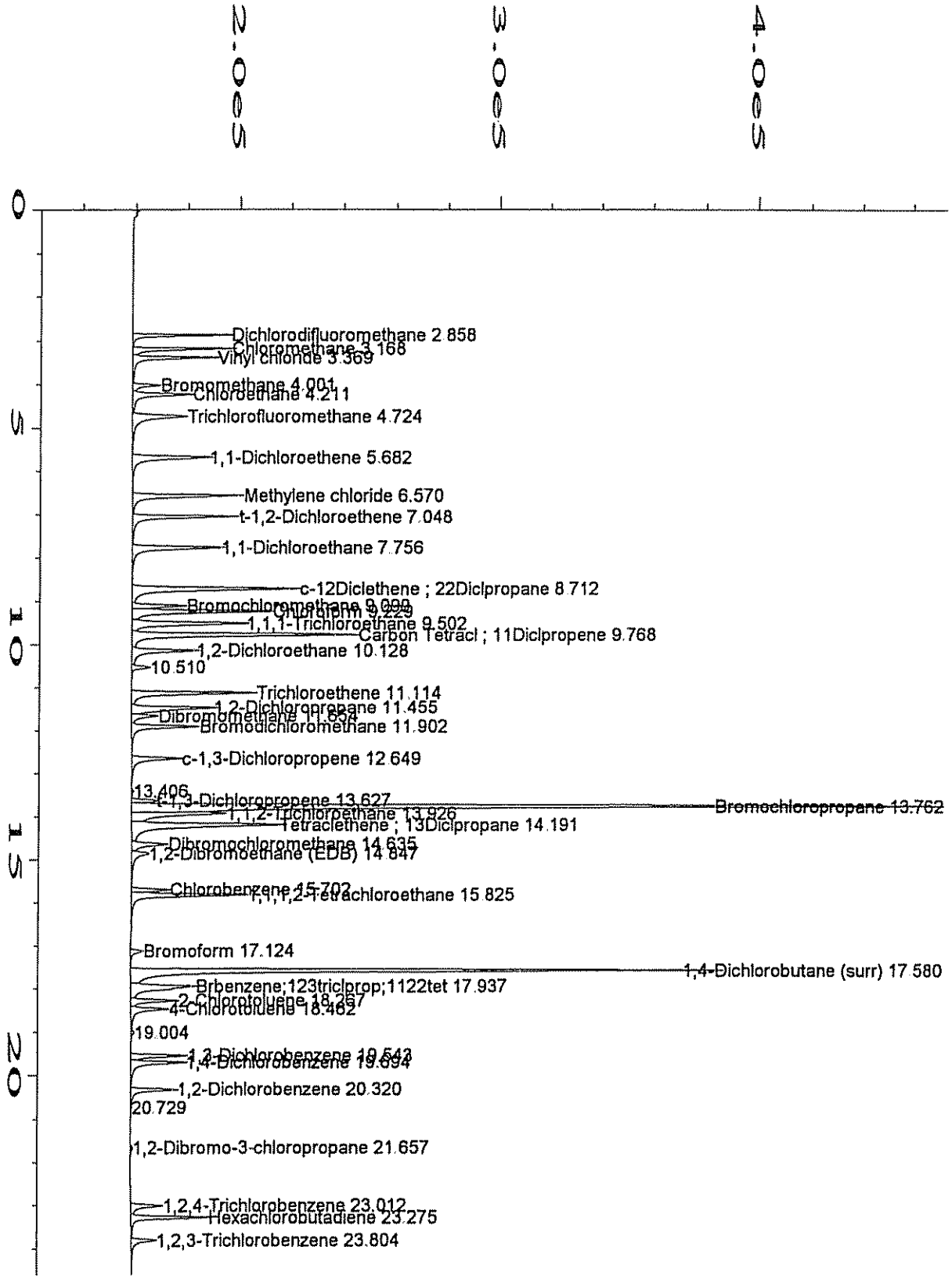
Data File Name : C:\HPCHEM\1\DATA\071505\008F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v1
Run Time Bar Code:
Acquired on : 15 Jul 05 12:10 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\008F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.858	111526	BV	0.043	1	0.540	Dichlorodifluoromethane
3.168	138745	VV	0.053	1	0.556	Chloromethane
3.369	142812	VV	0.059	1	0.579	Vinyl chloride
4.001	48515	VV	0.064	1	0.771	Bromomethane
4.211	125455	VV	0.078	1	0.630	Chloroethane
4.724	161463	VB	0.106	1	0.618	Trichlorofluoromethane
5.682	178985	BB	0.082	1	0.563	1,1-Dichloroethene
6.570	207945	BV	0.071	1	0.573	Methylene chloride
7.048	201861	VV	0.072	1	0.580	t-1,2-Dichloroethene
7.756	205114	VV	0.086	1	0.588	1,1-Dichloroethane
8.712	353645	VV	0.081	1	1.043	c-12Diclethene ; 22Diclpropane
9.099	89269	VV	0.067	1	0.663	Bromochloromethane
9.229	270025	VV	0.074	1	0.571	Chloroform
9.502	243992	VV	0.082	1	0.568	1,1,1-Trichloroethane
9.768	430647	VV	0.075	1	0.908	Carbon Tetracl ; 11Diclpropene
10.128	143727	VV	0.080	1	0.594	1,2-Dichloroethane
11.114	215070	BV	0.067	1	0.528	Trichloroethene
11.455	197289	VV	0.087	1	0.601	1,2-Dichloropropane
11.654	53195	VV	0.072	1	0.702	Dibromomethane
11.902	136144	VV	0.073	1	0.642	Bromodichloromethane
12.649	110839	VV	0.079	1	0.619	c-1,3-Dichloropropene
13.627	41423	VV	0.064	1	0.799	t-1,3-Dichloropropene
13.762	1597793	VV	0.078	1-I	40.000	Bromochloropropane
13.926	211813	VV	0.080	1	0.348	1,1,2-Trichloroethane
14.191	391987	VV	0.095	1	0.938	Tetraclethene ; 13Diclpropane
14.635	80134	VV	0.081	1	0.688	Dibromochloromethane
14.847	67287	VV	0.129	1	0.697	1,2-Dibromoethane (EDB)
15.702	61339	VV	0.062	1	0.708	Chlorobenzene
15.825	231975	VV	0.076	1	0.534	1,1,1,2-Tetrachloroethane
17.124	27527	BV	0.078	1	0.970	Bromoform
17.580	1005575	PV	0.066	1	95.791	1,4-Dichlorobutane (surr)
17.937	193240	VV	0.102	1	2.072	Brbenzene;123triclprop;1122tet
18.267	86549	VV	0.068	1	0.675	2-Chlorotoluene
18.462	91695	VV	0.083	1	0.633	4-Chlorotoluene
19.543	88874	BV	0.060	1	0.643	1,3-Dichlorobenzene
19.694	121917	VV	0.077	1	0.582	1,4-Dichlorobenzene
20.320	90845	VV	0.072	1	0.612	1,2-Dichlorobenzene
21.657	7071	BB	0.100	1	0.976	1,2-Dibromo-3-chloropropane
23.012	66329	BV	0.076	1	0.737	1,2,4-Trichlorobenzene
23.275	138902	VV	0.066	1	0.502	Hexachlorobutadiene
23.804	61067	VB	0.083	1	0.702	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\071505\008F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 8
ample Name	: v1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 12:10 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

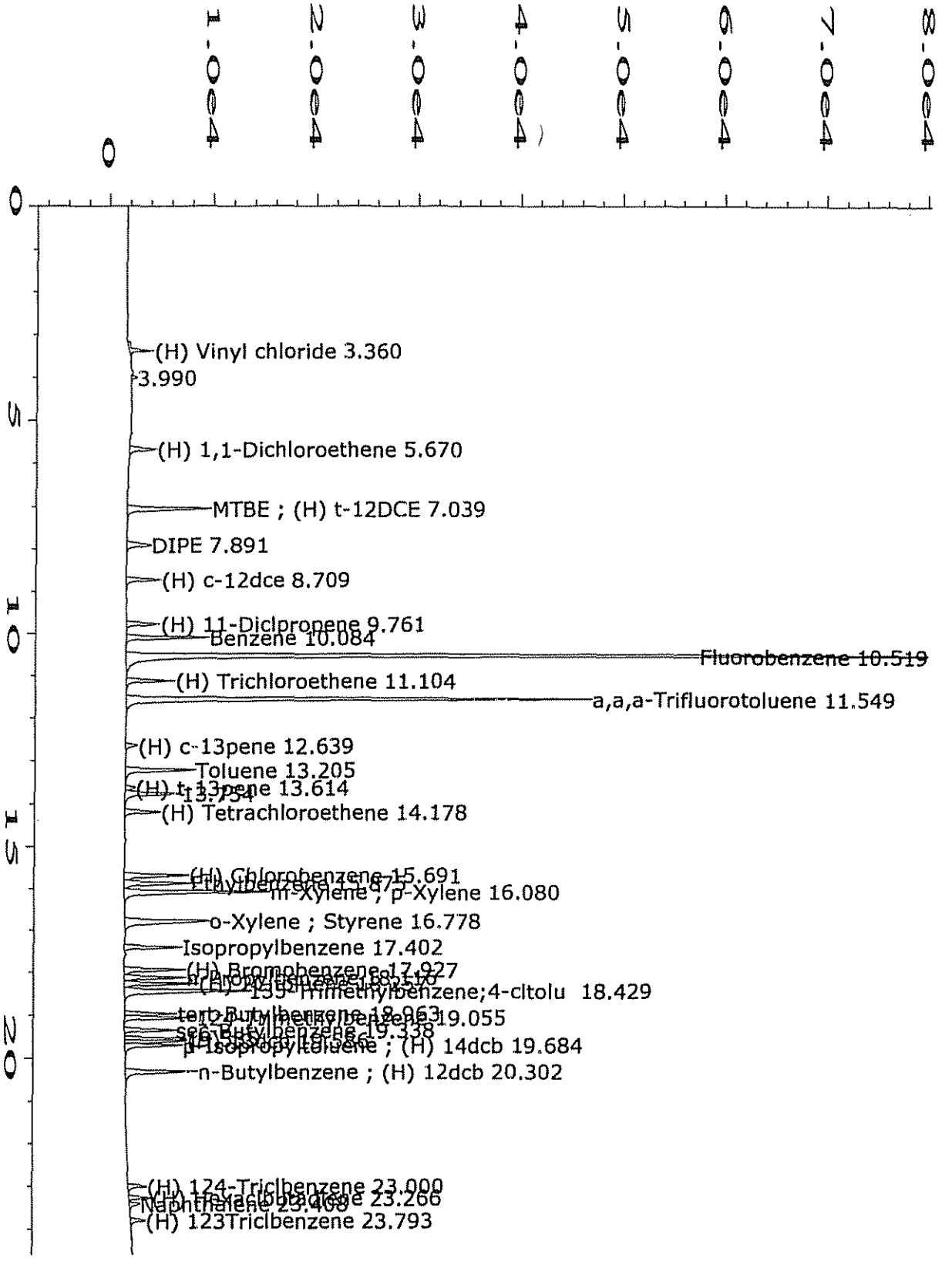
Data File Name : C:\HPCHEM\1\DATA\071505\008R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v1
Run Time Bar Code:
Acquired on : 15 Jul 05 12:10 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\008R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.360	9930	BB	0.059	1	0.867	(H) Vinyl chloride
5.670	13735	BB	0.078	1	0.745	(H) 1,1-Dichloroethene
7.039	36683	BB	0.068	1	1.628	MTBE ; (H) t-12DCE
7.891	13188	BB	0.084	1	0.909	DIPE
8.709	14904	BB	0.065	1	0.867	(H) c-12dce
9.761	13829	BB	0.064	1	0.854	(H) 11-Diclpropene
10.084	33063	BB	0.062	1	0.800	Benzene
10.519	362013	BV	0.063	1-I	40.000	Fluorobenzene
11.104	19881	VB	0.062	1	0.870	(H) Trichloroethene
11.549	196429	BV	0.067	1	100.606	a,a,a-Trifluorotoluene
12.639	5507	BB	0.068	1	1.018	(H) c-13pene
13.205	31136	BV	0.068	1	0.866	Toluene
13.614	4319	VV	0.066	1	1.121	(H) t-13pene
14.178	14944	VB	0.065	1	0.847	(H) Tetrachloroethene
15.691	27753	BV	0.065	1	0.862	(H) Chlorobenzene
15.875	28154	VV	0.065	1	0.780	Ethylbenzene
16.080	64039	VV	0.067	1	1.459	m-Xylene ; p-Xylene
16.778	50312	BV	0.094	1	1.572	o-Xylene ; Styrene
17.402	21250	BV	0.059	1	0.811	Isopropylbenzene
17.927	25183	BV	0.058	1	0.834	(H) Bromobenzene
18.116	23534	VV	0.060	1	0.765	n-Propylbenzene
18.257	27045	VV	0.058	1	0.729	(H) 2Cltoluene
18.429	61629	VV	0.075	1	1.323	135-Trimethylbenzene;4-cltolu
18.963	18646	BV	0.055	1	0.718	tert-Butylbenzene
19.055	26481	VV	0.057	1	0.802	124-Trimethylbenzene
19.338	18823	PV	0.058	1	0.766	sec-Butylbenzene
19.586	21137	VV	0.053	1	0.639	(H) 13dcb
19.684	24285	VB	0.063	1	1.562	p-Isopropyltoluene ; (H) 14dcb
20.302	32934	BB	0.070	1	1.594	n-Butylbenzene ; (H) 12dcb
23.000	7909	BV	0.063	1	0.965	(H) 124-Triclbenzene
23.266	8131	VV	0.057	1	0.674	(H) Hexaclbutadiene
23.408	5027	VV	0.072	1	1.167	Naphthalene
23.793	6416	VB	0.061	1	1.008	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\008R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 8
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 12:10 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

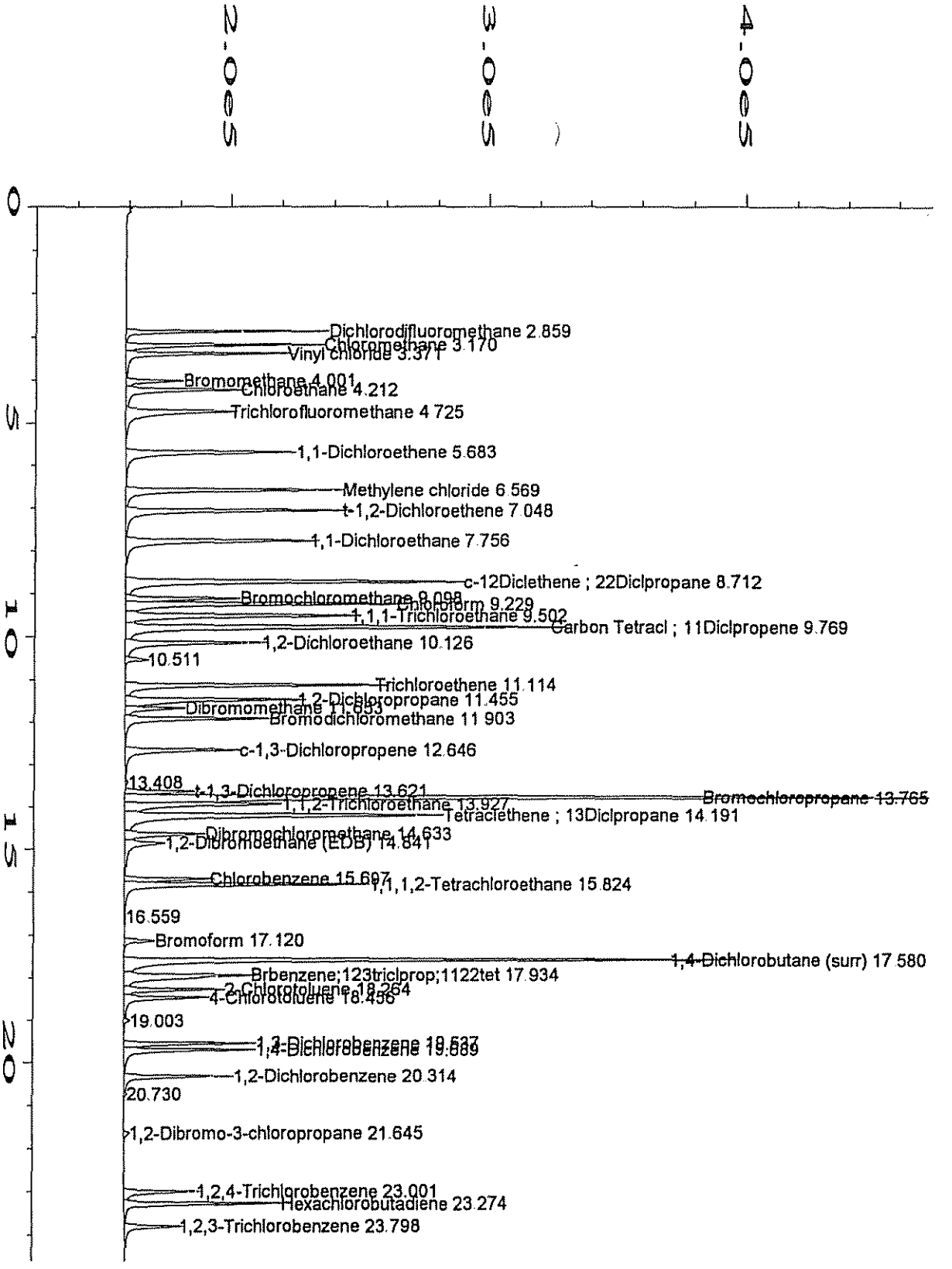
Data File Name : C:\HPCHEM\1\DATA\071505\009F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v2
Run Time Bar Code:
Acquired on : 15 Jul 05 12:41 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\009F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.859	221564	BV	0.043	1	1.791	Dichlorodifluoromethane
3.170	268956	VV	0.051	1	1.814	Chloromethane
3.371	259923	VV	0.060	1	1.861	Vinyl chloride
4.001	95094	VV	0.064	1	1.832	Bromomethane
4.212	239987	VV	0.072	1	1.841	Chloroethane
4.725	313657	VV	0.102	1	1.847	Trichlorofluoromethane
5.683	379773	VV	0.083	1	1.903	1,1-Dichloroethene
6.569	417476	VV	0.073	1	1.918	Methylene chloride
7.048	415406	VV	0.070	1	1.932	t-1,2-Dichloroethene
7.756	424368	VV	0.085	1	1.936	1,1-Dichloroethane
8.712	714635	VV	0.083	1	3.817	c-12Diclethene ; 22Diclpropane
9.098	188673	VV	0.064	1	1.878	Bromochloromethane
9.229	529762	VV	0.075	1	1.920	Chloroform
9.502	484449	VV	0.085	1	1.903	1,1,1-Trichloroethane
9.769	851740	VV	0.078	1	3.777	Carbon Tetracl ; 11Diclpropene
10.126	287814	VV	0.078	1	1.895	1,2-Dichloroethane
11.114	443008	BV	0.066	1	1.879	Trichloroethene
11.455	369393	VV	0.080	1	1.926	1,2-Dichloropropane
11.653	115975	VV	0.072	1	1.846	Dibromomethane
11.903	289135	VV	0.075	1	1.897	Bromodichloromethane
12.646	241771	VV	0.077	1	1.860	c-1,3-Dichloropropene
13.621	118696	VV	0.065	1	1.858	t-1,3-Dichloropropene
13.765	1627388	VV	0.076	1-I	40.000	Bromochloropropane
13.927	359362	VV	0.083	1	1.854	1,1,2-Trichloroethane
14.191	751738	VV	0.087	1	3.836	Tetraclethene ; 13Diclpropane
14.633	161377	VV	0.072	1	1.878	Dibromochloromethane
14.841	136240	VV	0.115	1	2.045	1,2-Dibromoethane (EDB)
15.697	143901	VV	0.063	1	1.940	Chlorobenzene
15.824	463474	VV	0.072	1	1.943	1,1,1,2-Tetrachloroethane
17.120	60770	BV	0.074	1	1.888	Bromoform
17.580	1041665	PV	0.066	1	97.425	1,4-Dichlorobutane (surr)
17.934	349078	VV	0.095	1	5.617	Brbenzene;123triclprop;1122tet
18.264	165479	VV	0.064	1	1.901	2-Chlorotoluene
18.456	174205	VV	0.073	1	1.914	4-Chlorotoluene
19.537	195732	PV	0.058	1	1.887	1,3-Dichlorobenzene
19.689	244373	VV	0.067	1	1.912	1,4-Dichlorobenzene
20.314	187846	VV	0.067	1	1.881	1,2-Dichlorobenzene
21.645	15476	BB	0.093	1	1.828	1,2-Dibromo-3-chloropropane
23.001	137165	BV	0.067	1	1.884	1,2,4-Trichlorobenzene
23.274	262888	VV	0.064	1	1.898	Hexachlorobutadiene
23.798	120149	VB	0.073	1	1.964	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\009F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 9
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 12:41 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

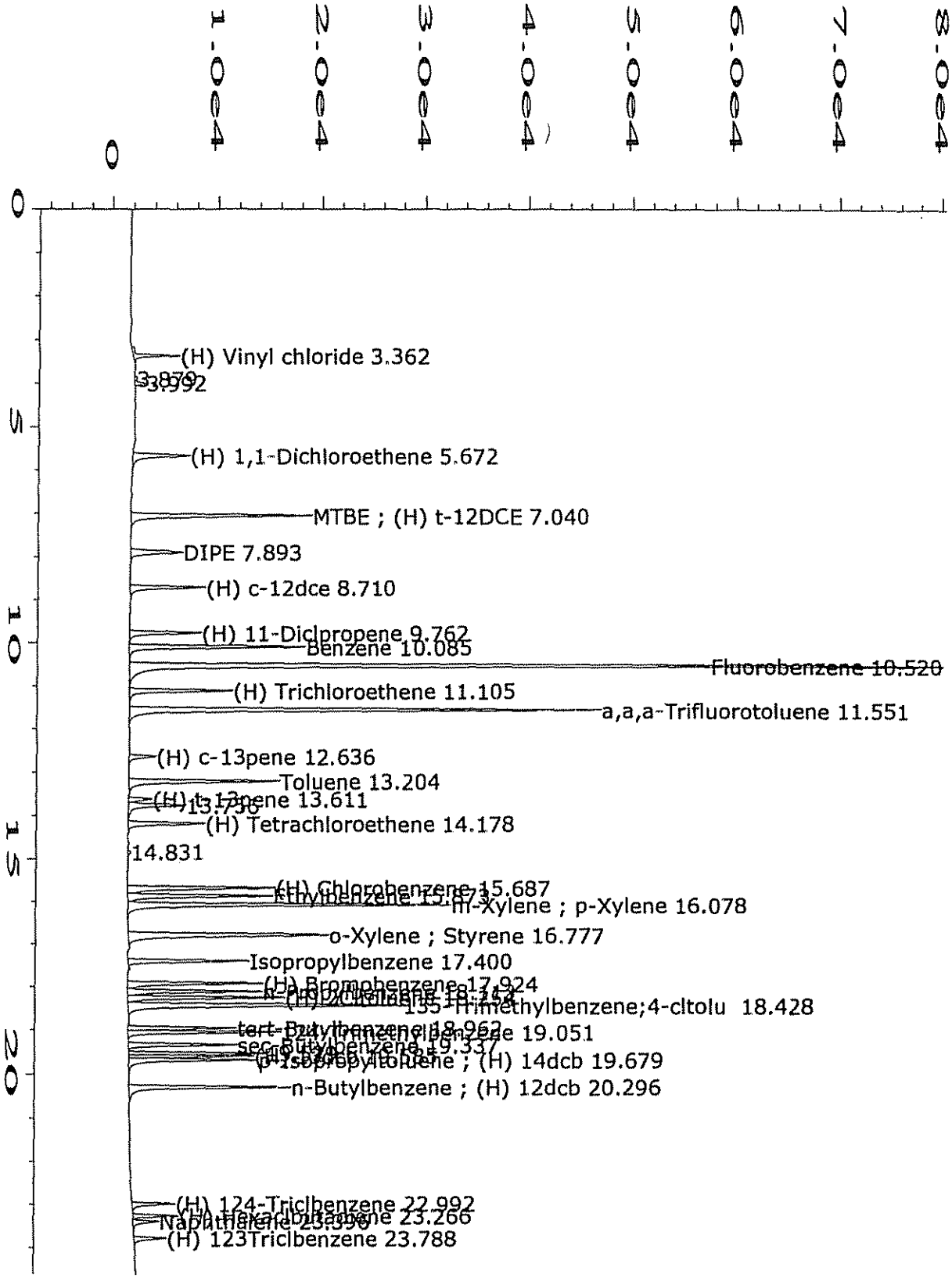
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\071505\009R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 9
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 12:41 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Fig. 2 in C:\HPCHEM\1\DATA\071505\009R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.362	16568	PB	0.054	1	2.044	(H) Vinyl chloride
5.672	28072	BB	0.077	1	1.867	(H) 1,1-Dichloroethene
7.040	75842	BB	0.065	1	3.774	MTBE ; (H) t-12DCE
7.893	27464	BB	0.085	1	1.966	DIPE
8.710	30944	BB	0.065	1	1.950	(H) c-12dce
9.762	28664	BV	0.064	1	1.948	(H) 11-Diclpropene
10.085	68599	VV	0.062	1	1.897	Benzene
10.520	361537	VV	0.061	1-I	40.000	Fluorobenzene
11.105	40196	VB	0.061	1	1.959	(H) Trichloroethene
11.551	196108	BB	0.067	1	100.574	a,a,a-Trifluorotoluene
12.636	11630	BB	0.067	1	2.040	(H) c-13pene
13.204	63513	BV	0.067	1	1.943	Toluene
13.611	10100	VV	0.067	1	2.023	(H) t-13pene
14.178	30508	VB	0.065	1	1.936	(H) Tetrachloroethene
15.687	58176	BV	0.062	1	1.916	(H) Chlorobenzene
15.873	57024	VV	0.062	1	1.869	Ethylbenzene
16.078	130747	VB	0.064	1	3.675	m-Xylene ; p-Xylene
16.777	103944	BV	0.083	1	3.703	o-Xylene ; Styrene
17.400	43213	BV	0.058	1	1.885	Isopropylbenzene
17.924	51312	BV	0.058	1	1.868	(H) Bromobenzene
18.113	48155	VV	0.057	1	1.848	n-Propylbenzene
18.254	54357	VV	0.055	1	1.820	(H) 2Cltoluene
18.428	125055	VV	0.070	1	3.524	135-Trimethylbenzene;4-cltolu
18.962	37785	BV	0.056	1	1.825	tert-Butylbenzene
19.051	53424	VV	0.055	1	1.860	124-Trimethylbenzene
19.337	38161	PV	0.057	1	1.851	sec-Butylbenzene
19.585	40301	VV	0.051	1	1.756	(H) 13dcb
19.679	48395	VB	0.057	1	3.629	p-Isopropyltoluene ; (H) 14dcb
20.296	66527	BB	0.063	1	3.682	n-Butylbenzene ; (H) 12dcb
22.992	15211	BV	0.056	1	1.833	(H) 124-Triclbenzene
23.266	15201	VV	0.054	1	1.769	(H) Hexaclbutadiene
23.396	10208	VB	0.059	1	1.986	Naphthalene
23.788	12144	BV	0.058	1	1.951	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\009R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 9
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 12:41 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

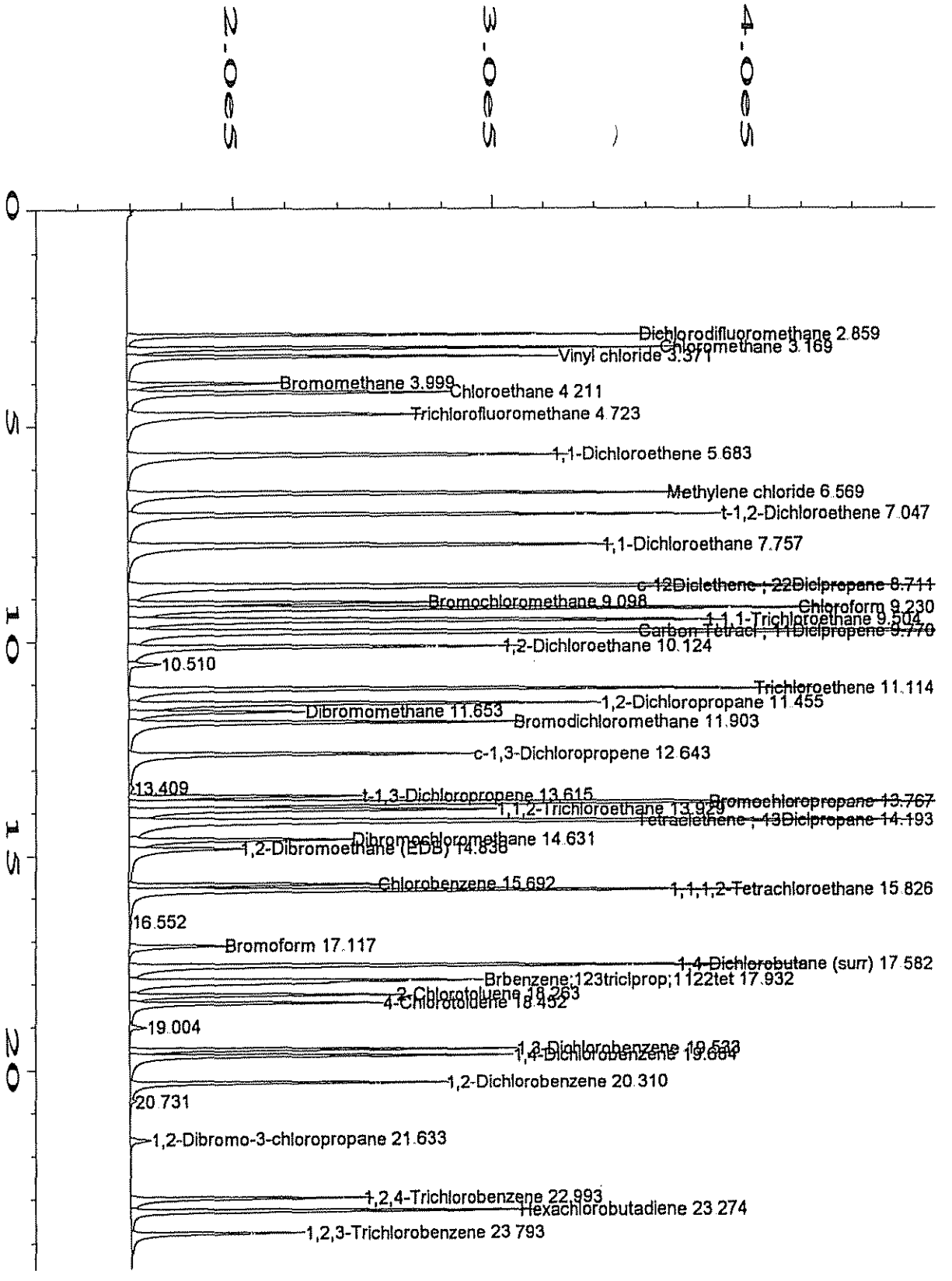
Data File Name : C:\HPCHEM\1\DATA\071505\010F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v5
Run Time Bar Code:
Acquired on : 15 Jul 05 01:12 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\010F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.859	584930	BV	0.042	1	5.683	Dichlorodifluoromethane
3.169	691068	VV	0.048	1	5.654	Chloromethane
3.371	624492	VV	0.055	1	5.616	Vinyl chloride
3.999	252040	VV	0.063	1	5.204	Bromomethane
4.211	614100	VV	0.073	1	5.572	Chloroethane
4.723	795028	VV	0.103	1	5.506	Trichlorofluoromethane
5.683	974896	VV	0.086	1	5.632	1,1-Dichloroethene
6.569	1045317	VV	0.074	1	5.705	Methylene chloride
7.047	1049719	VV	0.068	1	5.705	t-1,2-Dichloroethene
7.757	1074666	VV	0.086	1	5.690	1,1-Dichloroethane
8.711	1791184	VV	0.078	1	11.589	c-12Diclethene ; 22Diclpropane
9.098	514112	VV	0.066	1	5.626	Bromochloromethane
9.230	1316328	VV	0.071	1	5.760	Chloroform
9.504	1220095	VV	0.082	1	5.742	1,1,1-Trichloroethane
9.770	2104006	VV	0.077	1	11.792	Carbon Tetracl ; 11Diclpropene
10.124	736294	VV	0.073	1	5.704	1,2-Dichloroethane
11.114	1133170	VV	0.067	1	5.724	Trichloroethene
11.455	891771	VV	0.072	1	5.709	1,2-Dichloropropane
11.653	328573	VV	0.069	1	5.497	Dibromomethane
11.903	770477	VV	0.076	1	5.612	Bromodichloromethane
12.643	658096	VV	0.072	1	5.574	c-1,3-Dichloropropene
13.615	373401	VV	0.061	1	5.142	t-1,3-Dichloropropene
13.767	1707072	VV	0.076	1-I	40.000	Bromochloropropane
13.929	759850	VV	0.077	1	5.682	1,1,2-Trichloroethane
14.193	1765266	VV	0.087	1	11.492	Tetraclethene ; 13Diclpropane
14.631	421268	VV	0.075	1	5.463	Dibromochloromethane
14.836	322607	VV	0.103	1	5.454	1,2-Dibromoethane (EDB)
15.692	389437	VV	0.063	1	5.382	Chlorobenzene
15.826	1129642	VV	0.070	1	5.747	1,1,1,2-Tetrachloroethane
17.117	184490	BV	0.071	1	5.116	Bromoform
17.582	1090948	VV	0.066	1	97.271	1,4-Dichlorobutane (surr)
17.932	852784	VV	0.085	1	16.419	Brbenzene;123triclprop;1122tet
18.263	411031	VV	0.060	1	5.490	2-Chlorotoluene
18.452	422378	VV	0.064	1	5.536	4-Chlorotoluene
19.533	531589	PV	0.054	1	5.565	1,3-Dichlorobenzene
19.684	614165	VV	0.063	1	5.689	1,4-Dichlorobenzene
20.310	492370	VV	0.061	1	5.632	1,2-Dichlorobenzene
21.633	45489	BV	0.077	1	4.701	1,2-Dibromo-3-chloropropane
22.993	369083	BV	0.061	1	5.422	1,2,4-Trichlorobenzene
23.274	626562	VV	0.061	1	5.742	Hexachlorobutadiene
23.793	293419	VBA	0.063	1	5.440	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\010F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 10
Sample Name	: v5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 01:12 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

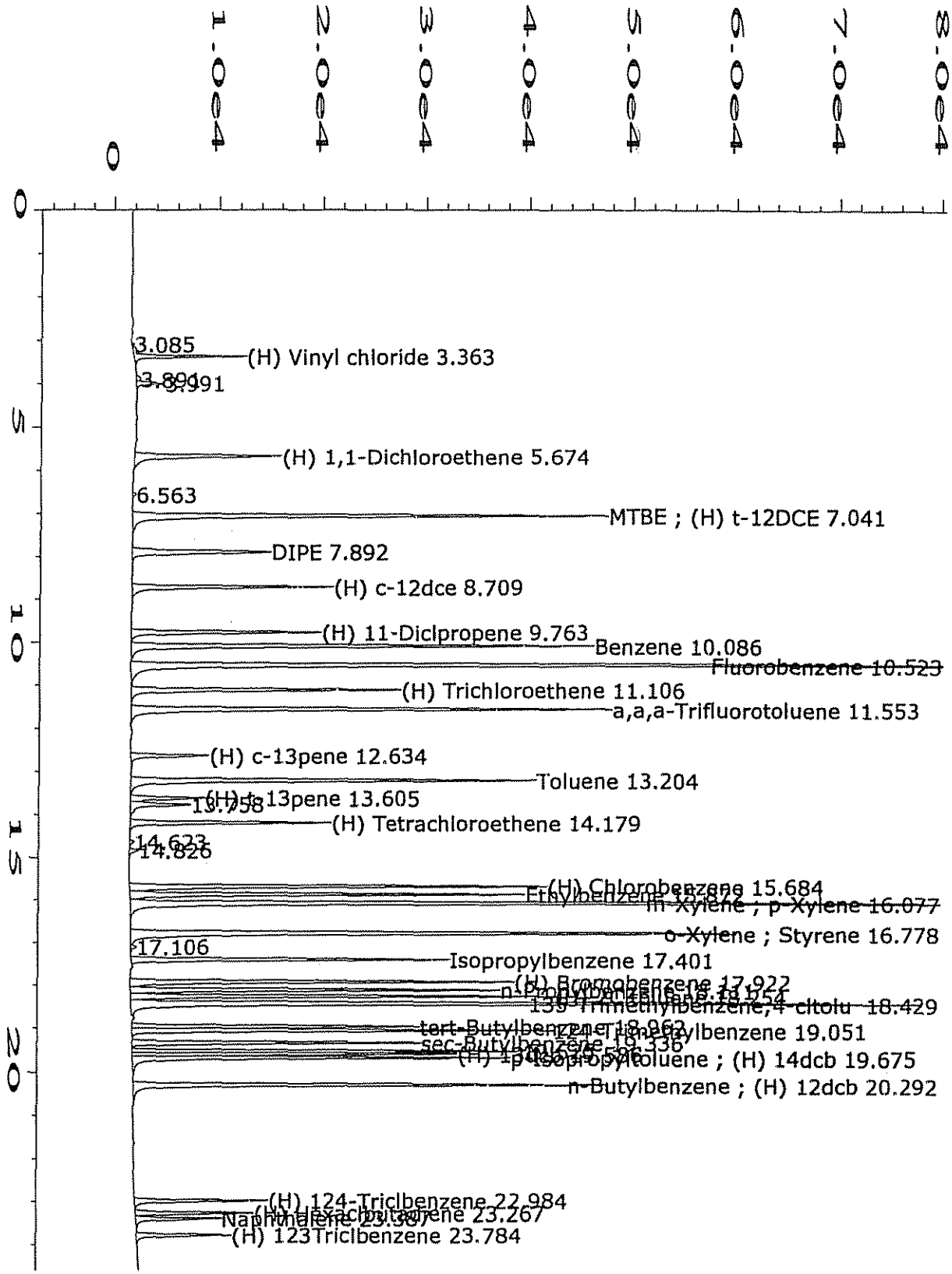
Data File Name : C:\HPCHEM\1\DATA\071505\010R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v5
Run Time Bar Code:
Acquired on : 15 Jul 05 01:12 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\010R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.363	36311	VB	0.049	1	5.401	(H) Vinyl chloride
5.674	72553	BB	0.077	1	5.222	(H) 1,1-Dichloroethene
7.041	200163	BB	0.065	1	10.343	MTBE ; (H) t-12DCE
7.892	72250	BV	0.084	1	5.165	DIPE
8.709	80482	BV	0.063	1	5.173	(H) c-12dce
9.763	74607	BV	0.063	1	5.218	(H) 11-Diclpropene
10.086	179904	VV	0.062	1	5.211	Benzene
10.523	369412	VV	0.063	1-I	40.000	Fluorobenzene
11.106	102674	VV	0.060	1	5.188	(H) Trichloroethene
11.553	203988	VB	0.068	1	102.385	a,a,a-Trifluorotoluene
12.634	31305	BB	0.063	1	5.210	(H) c-13pene
13.204	165299	BV	0.065	1	5.208	Toluene
13.605	29994	VV	0.064	1	5.024	(H) t-13pene
14.179	78962	VB	0.064	1	5.206	(H) Tetrachloroethene
15.684	156006	BV	0.059	1	5.188	(H) Chlorobenzene
15.872	149142	VV	0.060	1	5.219	Ethylbenzene
16.077	344801	VB	0.061	1	10.534	m-Xylene ; p-Xylene
16.778	281171	BV	0.074	1	10.497	o-Xylene ; Styrene
17.401	114581	BV	0.058	1	5.251	Isopropylbenzene
17.922	138049	BV	0.056	1	5.179	(H) Bromobenzene
18.111	128336	VV	0.053	1	5.252	n-Propylbenzene
18.254	143794	VV	0.054	1	5.266	(H) 2Cltoluene
18.429	335687	VV	0.060	1	10.574	135-Trimethylbenzene;4-cltolu
18.962	99763	VV	0.056	1	5.281	tert-Butylbenzene
19.051	142079	VV	0.053	1	5.219	124-Trimethylbenzene
19.336	100849	PV	0.056	1	5.240	sec-Butylbenzene
19.586	99776	VV	0.048	1	5.096	(H) 13dcb
19.675	130362	VB	0.054	1	10.408	p-Isopropyltoluene ; (H) 14dcb
20.292	178860	BV	0.061	1	10.418	n-Butylbenzene ; (H) 12dcb
22.984	44683	BV	0.053	1	5.217	(H) 124-Triclbenzene
23.267	39144	VV	0.054	1	5.345	(H) Hexaclbutadiene
23.387	30469	VB	0.054	1	5.080	Naphthalene
23.784	32402	BB	0.053	1	5.167	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\010R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 10
Sample Name	: v5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 01:12 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

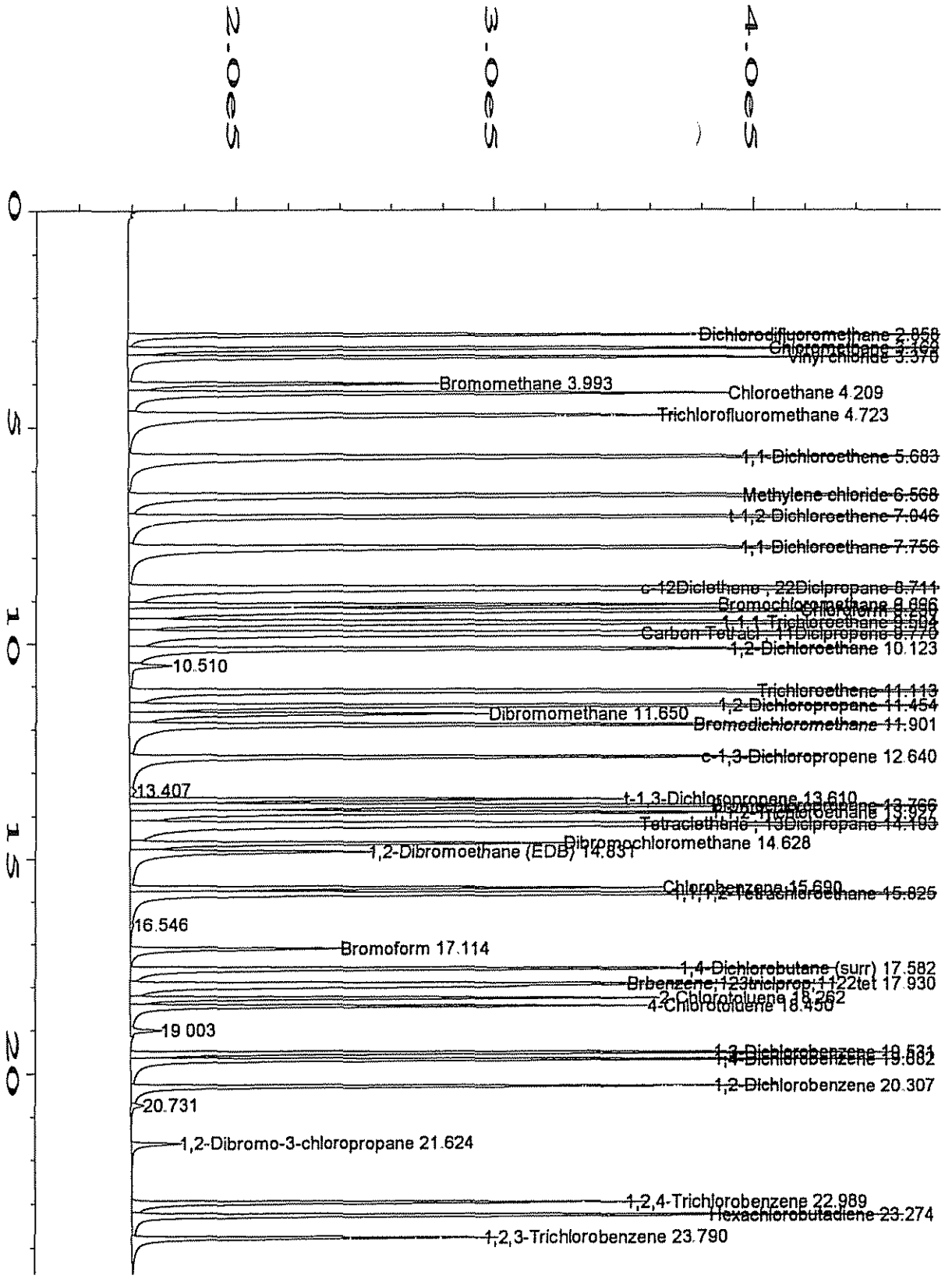
Data File Name : C:\HPCHEM\1\DATA\071505\011F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v10
Run Time Bar Code:
Acquired on : 15 Jul 05 01:43 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\011F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.858	1099123	BV	0.043	1	10.960	Dichlorodifluoromethane
3.169	1292300	VV	0.049	1	10.900	Chloromethane
3.370	1159698	VV	0.054	1	10.919	Vinyl chloride
3.993	511381	VV	0.064	1	10.571	Bromomethane
4.209	1150068	VV	0.076	1	10.698	Chloroethane
4.723	1517600	VV	0.105	1	10.786	Trichlorofluoromethane
5.683	1849289	VV	0.087	1	10.892	1,1-Dichloroethene
6.568	1936759	VV	0.071	1	10.865	Methylene chloride
7.046	1946094	VV	0.070	1	10.818	t-1,2-Dichloroethene
7.756	2005095	VV	0.086	1	10.844	1,1-Dichloroethane
8.711	3295259	VV	0.079	1	22.000	c-12Diclethene ; 22Diclpropane
9.096	969009	VV	0.064	1	10.639	Bromochloromethane
9.230	2427123	VV	0.075	1	10.962	Chloroform
9.504	2262807	VV	0.082	1	10.964	1,1,1-Trichloroethane
9.770	3844050	VV	0.076	1	22.472	Carbon Tetracl ; 11Diclpropene
10.123	1377408	VV	0.071	1	10.928	1,2-Dichloroethane
11.113	2135459	VV	0.067	1	11.084	Trichloroethene
11.454	1633617	VV	0.073	1	10.869	1,2-Dichloropropane
11.650	646345	VV	0.067	1	10.728	Dibromomethane
11.901	1467243	VV	0.073	1	10.768	Bromodichloromethane
12.640	1279571	VV	0.073	1	10.893	c-1,3-Dichloropropene
13.610	800398	VV	0.064	1	10.426	t-1,3-Dichloropropene
13.766	1765314	VV	0.076	1-I	40.000	Bromochloropropane
13.927	1325964	VV	0.075	1	10.904	1,1,2-Trichloroethane
14.193	3256674	VV	0.084	1	22.339	Tetraclethene ; 13Diclpropane
14.628	817775	VV	0.070	1	10.720	Dibromochloromethane
14.831	612191	VV	0.093	1	10.564	1,2-Dibromoethane (EDB)
15.690	779036	VV	0.057	1	10.633	Chlorobenzene
15.825	2090601	VV	0.073	1	11.021	1,1,1,2-Tetrachloroethane
17.114	385316	VV	0.069	1	10.145	Bromoform
17.582	1127622	VV	0.065	1	97.224	1,4-Dichlorobutane (surr)
17.930	1622515	VV	0.087	1	32.318	Brbenzene;123triclprop;1122tet
18.262	783179	VV	0.058	1	10.725	2-Chlorotoluene
18.450	794708	VV	0.059	1	10.765	4-Chlorotoluene
19.531	1021832	PV	0.055	1	10.712	1,3-Dichlorobenzene
19.682	1143707	VV	0.057	1	10.879	1,4-Dichlorobenzene
20.307	936278	VV	0.058	1	10.878	1,2-Dichlorobenzene
21.624	108460	BB	0.078	1	10.533	1,2-Dibromo-3-chloropropane
22.989	733415	BV	0.058	1	10.767	1,2,4-Trichlorobenzene
23.274	1165883	VV	0.061	1	11.231	Hexachlorobutadiene
23.790	571297	VBA	0.060	1	10.818	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\011F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 11
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 01:43 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

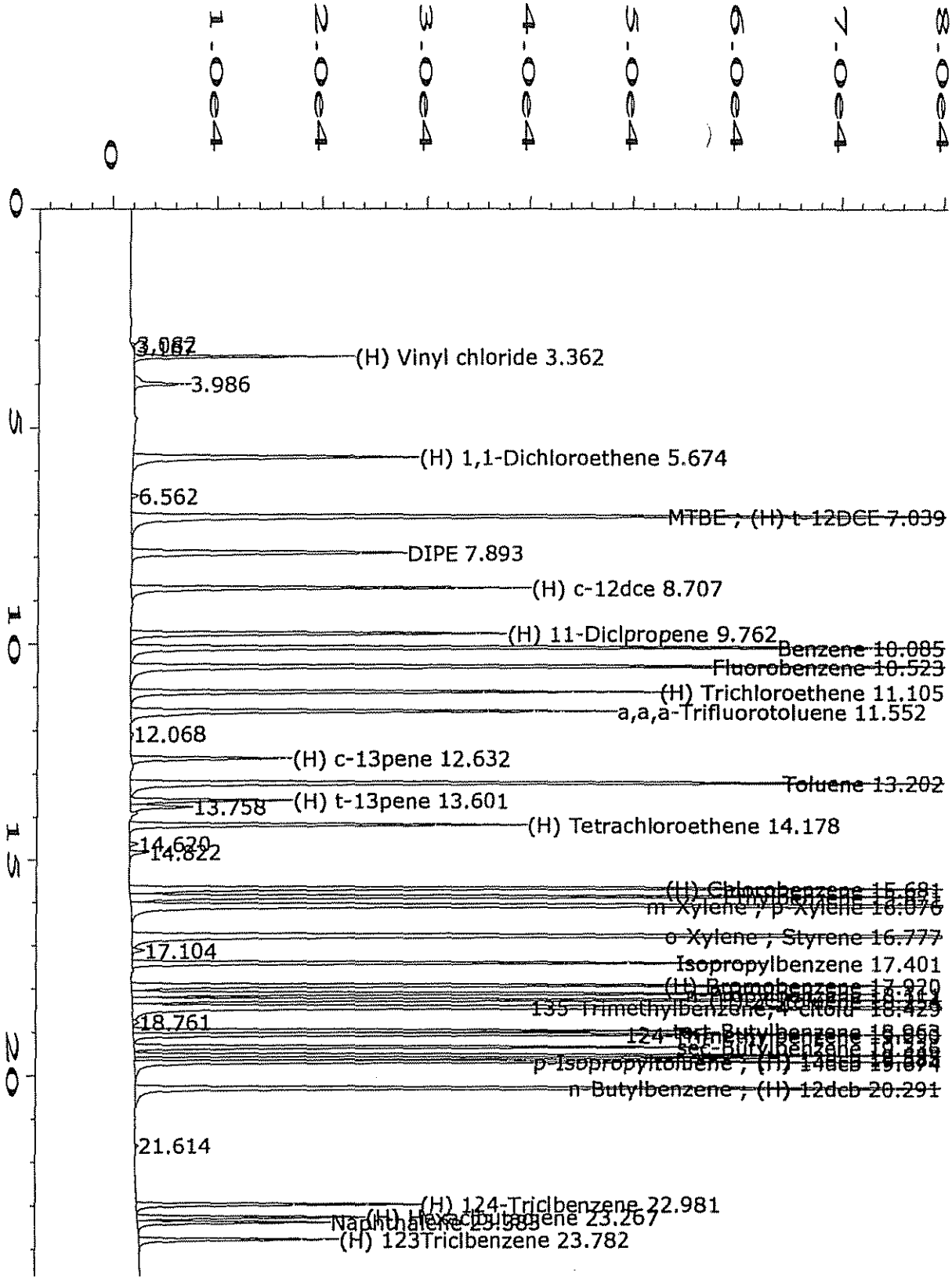
Data File Name : C:\HPCHEM\1\DATA\071505\011R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v10
Run Time Bar Code:
Acquired on : 15 Jul 05 01:43 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\011R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.362	62670	BB	0.045	1	9.809	(H) Vinyl chloride
5.674	141748	BB	0.078	1	10.358	(H) 1,1-Dichloroethene
7.039	396413	BB	0.065	1	20.549	MTBE ; (H) t-12DCE
7.893	142567	BB	0.083	1	10.107	DIPE
8.707	158517	BV	0.063	1	10.171	(H) c-12dce
9.762	146025	BV	0.063	1	10.218	(H) 11-Diclpropene
10.085	354326	VV	0.062	1	10.320	Benzene
10.523	374806	VV	0.062	1-I	40.000	Fluorobenzene
11.105	200828	VV	0.059	1	10.182	(H) Trichloroethene
11.552	211652	VV	0.069	1	104.703	a,a,a-Trifluorotoluene
12.632	60557	BV	0.060	1	9.843	(H) c-13pene
13.202	324460	BV	0.063	1	10.232	Toluene
13.601	62466	VV	0.061	1	9.840	(H) t-13pene
14.178	154627	VB	0.062	1	10.231	(H) Tetrachloroethene
15.681	309961	BV	0.057	1	10.253	(H) Chlorobenzene
15.871	292759	VV	0.058	1	10.358	Ethylbenzene
16.076	672298	VB	0.060	1	20.856	m-Xylene ; p-Xylene
16.777	552690	BV	0.071	1	20.732	o-Xylene ; Styrene
17.401	224800	PV	0.058	1	10.365	Isopropylbenzene
17.920	274079	BV	0.053	1	10.287	(H) Bromobenzene
18.111	251843	VV	0.053	1	10.408	n-Propylbenzene
18.254	281155	VV	0.053	1	10.472	(H) 2Cltoluene
18.429	654970	VV	0.064	1	21.082	135-Trimethylbenzene;4-cltolu
18.963	194376	VV	0.055	1	10.469	tert-Butylbenzene
19.050	280205	VV	0.053	1	10.367	124-Trimethylbenzene
19.336	198052	VV	0.056	1	10.411	sec-Butylbenzene
19.585	197198	VV	0.048	1	10.486	(H) 13dcb
19.674	256326	VV	0.051	1	20.654	p-Isopropyltoluene ; (H) 14dcb
20.291	354451	BB	0.058	1	20.775	n-Butylbenzene ; (H) 12dcb
22.981	89939	BV	0.050	1	10.323	(H) 124-Triclbenzene
23.267	75667	VV	0.053	1	10.711	(H) Hexaclbutadiene
23.383	63132	VB	0.051	1	9.984	Naphthalene
23.782	65077	BV	0.051	1	10.273	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\011R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 11
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 01:43 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

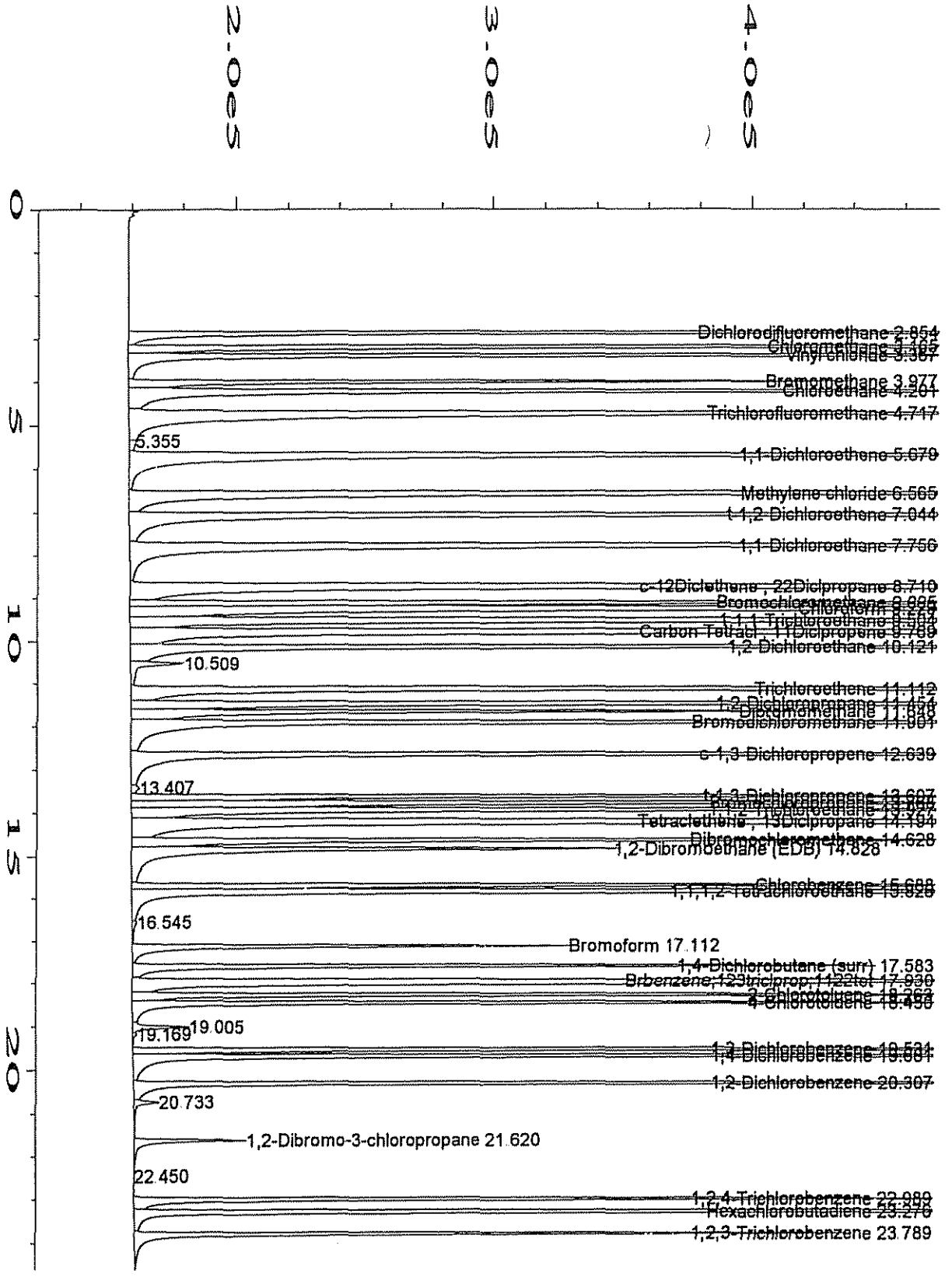
Data File Name : C:\HPCHEM\1\DATA\071505\012F0101.D
Operator : MJC
Instrument : GC3
Sample Name : v20
Run Time Bar Code:
Acquired on : 15 Jul 05 02:13 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\012F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.854	2063863	BV	0.042	1	20.471	Dichlorodifluoromethane
3.165	2443072	VV	0.051	1	20.554	Chloromethane
3.367	2167147	VV	0.054	1	20.514	Vinyl chloride
3.977	1017942	VV	0.053	1	20.634	Bromomethane
4.201	2218112	VV	0.073	1	20.539	Chloroethane
4.717	2905493	VV	0.103	1	20.533	Trichlorofluoromethane
5.679	3471406	VV	0.086	1	20.258	1,1-Dichloroethene
6.565	3595263	VV	0.072	1	20.088	Methylene chloride
7.044	3646039	VV	0.070	1	20.142	t-1,2-Dichloroethene
7.756	3740614	VV	0.085	1	20.078	1,1-Dichloroethane
8.710	6060547	VV	0.079	1	40.384	c-12Diclethene ; 22Diclpropane
9.095	1855304	VV	0.064	1	20.034	Bromochloromethane
9.229	4402541	VV	0.076	1	19.834	Chloroform
9.504	4138586	VV	0.080	1	19.973	1,1,1-Trichloroethane
9.769	6841971	VV	0.076	1	40.093	Carbon Tetracl ; 11Diclpropene
10.121	2527345	VV	0.072	1	19.910	1,2-Dichloroethane
11.112	3890868	VV	0.068	1	20.072	Trichloroethene
11.454	2998184	VV	0.071	1	19.986	1,2-Dichloropropane
11.648	1228924	VV	0.068	1	19.917	Dibromomethane
11.901	2764592	VV	0.072	1	19.982	Bromodichloromethane
12.639	2383640	VV	0.070	1	19.936	c-1,3-Dichloropropene
13.607	1617163	VV	0.063	1	20.106	t-1,3-Dichloropropene
13.768	1830992	VV	0.076	1-I	40.000	Bromochloropropane
13.927	2338142	VV	0.074	1	19.878	1,1,2-Trichloroethane
14.194	5827351	VV	0.082	1	40.239	Tetraclethene ; 13Diclpropane
14.628	1547837	VV	0.071	1	19.999	Dibromochloromethane
14.828	1168773	VV	0.088	1	20.005	1,2-Dibromoethane (EDB)
15.688	1499185	VV	0.059	1	19.932	Chlorobenzene
15.826	3776186	VV	0.071	1	19.883	1,1,1,2-Tetrachloroethane
17.112	779497	VV	0.067	1	19.613	Bromoform
17.583	1160269	VV	0.060	1	96.451	1,4-Dichlorobutane (surr)
17.930	2990034	VV	0.081	1	59.371	Brbenzene;123triclprop;1122tet
18.263	1463159	VV	0.060	1	19.896	2-Chlorotoluene
18.450	1474089	VV	0.061	1	19.920	4-Chlorotoluene
19.531	1936010	PV	0.055	1	19.922	1,3-Dichlorobenzene
19.681	2102506	VV	0.058	1	19.894	1,4-Dichlorobenzene
20.307	1736112	VV	0.058	1	19.937	1,2-Dichlorobenzene
21.620	215620	BV	0.073	1	19.975	1,2-Dibromo-3-chloropropane
22.989	1370029	PV	0.056	1	19.692	1,2,4-Trichlorobenzene
23.276	2055666	VV	0.063	1	19.879	Hexachlorobutadiene
23.789	1035437	VBA	0.056	1	19.392	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\012F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 12
Sample Name	: v20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 02:13 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

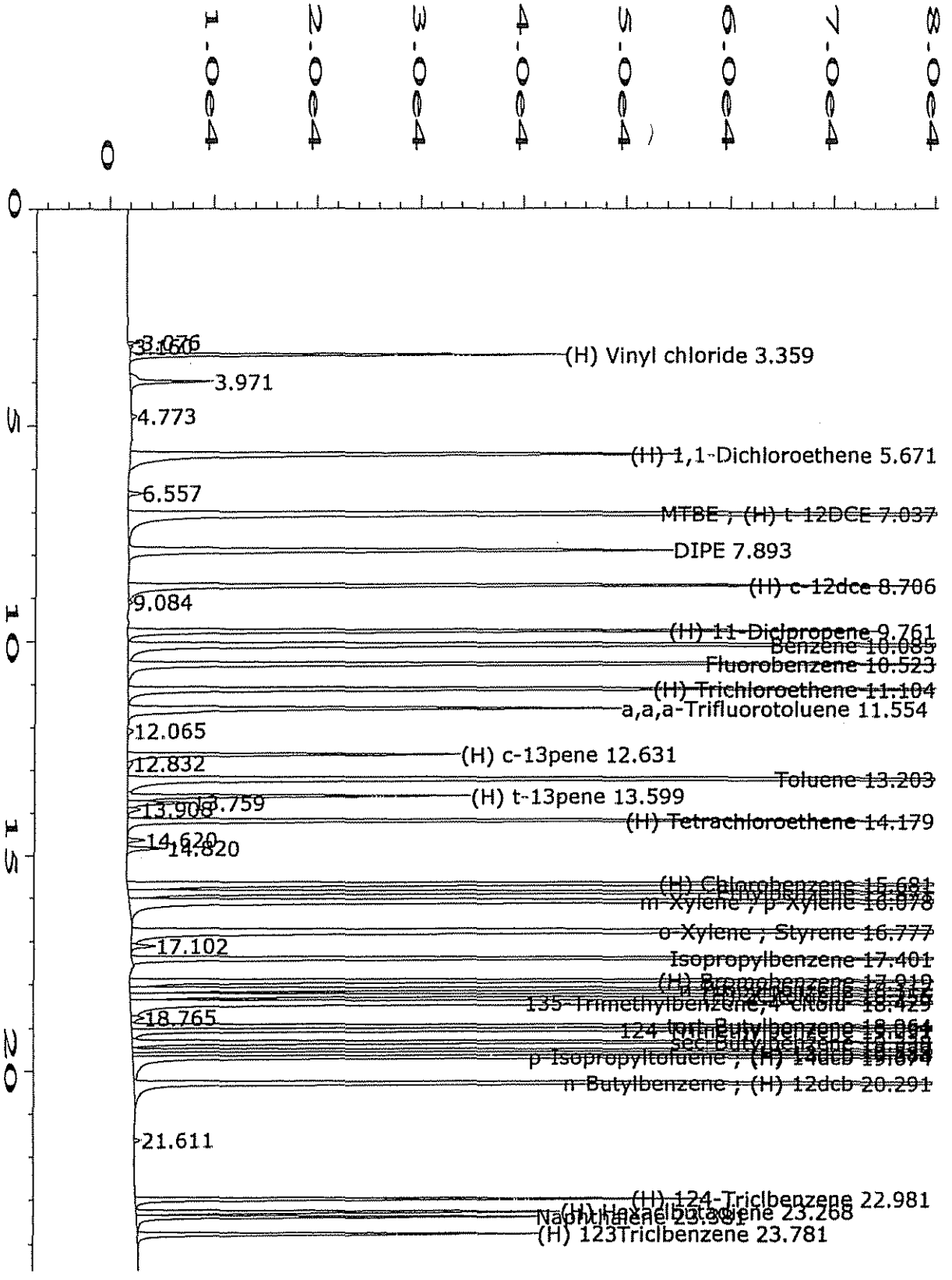
Data File Name : C:\HPCHEM\1\DATA\071505\012R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v20
Run Time Bar Code:
Acquired on : 15 Jul 05 02:13 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\012R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.359	124274	BB	0.045	1	20.054	(H) Vinyl chloride
5.671	279130	BB	0.077	1	20.448	(H) 1,1-Dichloroethene
7.037	788555	BV	0.066	1	40.721	MTBE ; (H) t-12DCE
7.893	286923	VV	0.083	1	20.148	DIPE
8.706	317539	BV	0.063	1	20.248	(H) c-12dce
9.761	290281	PV	0.062	1	20.213	(H) 11-Diclpropene
10.085	699338	VV	0.062	1	20.318	Benzene
10.523	379617	VV	0.062	1-I	40.000	Fluorobenzene
11.104	398837	VV	0.059	1	20.151	(H) Trichloroethene
11.554	224636	VV	0.071	1	109.718	a,a,a-Trifluorotoluene
12.631	124668	BV	0.059	1	19.902	(H) c-13pene
13.203	642404	BV	0.063	1	20.162	Toluene
13.599	130117	VV	0.060	1	19.763	(H) t-13pene
14.179	306400	VV	0.062	1	20.204	(H) Tetrachloroethene
15.681	614185	BV	0.056	1	20.151	(H) Chlorobenzene
15.871	575162	VV	0.058	1	20.354	Ethylbenzene
16.078	1312195	VB	0.059	1	40.805	m-Xylene ; p-Xylene
16.777	1084280	BV	0.068	1	40.551	o-Xylene ; Styrene
17.401	438734	PV	0.058	1	20.181	Isopropylbenzene
17.919	542352	BV	0.054	1	20.251	(H) Bromobenzene
18.112	492279	VV	0.055	1	20.337	n-Propylbenzene
18.256	546459	VV	0.053	1	20.416	(H) 2Cltoluene
18.429	1270547	VV	0.061	1	41.120	135-Trimethylbenzene;4-cltolu
18.964	377705	VV	0.056	1	20.413	tert-Butylbenzene
19.051	549393	VV	0.053	1	20.289	124-Trimethylbenzene
19.338	386891	VV	0.056	1	20.346	sec-Butylbenzene
19.588	377804	VV	0.048	1	20.363	(H) 13dcb
19.674	507339	VV	0.051	1	40.853	p-Isopropyltoluene ; (H) 14dcb
20.291	694694	VV	0.057	1	40.619	n-Butylbenzene ; (H) 12dcb
22.981	175761	BV	0.049	1	19.892	(H) 124-Triclbenzene
23.268	142273	VV	0.054	1	20.383	(H) Hexaclbutadiene
23.381	127813	VV	0.050	1	19.583	Naphthalene
23.781	126506	VV	0.050	1	19.758	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name : C:\HPCHEM\1\DATA\071505\012R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v20
Run Time Bar Code:
Acquired on : 15 Jul 05 02:13 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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Internal Standard Report

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File Name : C:\HPCHEM\1\DATA\071505\013F0101.D
ator : MJC
rument : GC3
le Name : v25
Time Bar Code:
ired on : 15 Jul 05 02:44 PM
ort Created on: 16 Jul 05 07:54 AM
t Recalib on : 16 JUL 05 07:43 AM
tiplier : 1

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

. 1 in C:\HPCHEM\1\DATA\071505\013F0101.D

Time	Area	Type	Width	Ref#	µg/L	Name
2.856	2434175	BV	0.043	1	24.149	Dichlorodifluoromethane
3.167	2864625	VV	0.049	1	24.110	Chloromethane
3.369	2545151	VV	0.055	1	24.139	Vinyl chloride
3.978	1199583	VV	0.053	1	24.251	Bromomethane
4.197	2614922	VV	0.079	1	24.213	Chloroethane
4.718	3424007	VV	0.108	1	24.195	Trichlorofluoromethane
5.680	4171922	VV	0.087	1	24.347	1,1-Dichloroethene
6.567	4373938	VV	0.076	1	24.479	Methylene chloride
7.045	4422316	VV	0.072	1	24.453	t-1,2-Dichloroethene
7.757	4559744	VV	0.089	1	24.496	1,1-Dichloroethane
8.711	7288773	VV	0.080	1	48.657	c-12Diclethene ; 22Diclpropane
9.095	2283006	VV	0.066	1	24.625	Bromochloromethane
9.232	5451485	VV	0.078	1	24.633	Chloroform
9.506	5071278	VV	0.080	1	24.526	1,1,1-Trichloroethane
9.772	8276594	VV	0.079	1	48.674	Carbon Tetracl ; 11Diclpropene
10.123	3117411	VV	0.070	1	24.597	1,2-Dichloroethane
11.114	4724328	VV	0.065	1	24.406	Trichloroethene
11.456	3671383	VV	0.069	1	24.557	1,2-Dichloropropane
11.651	1528281	VV	0.069	1	24.708	Dibromomethane
11.903	3408204	VV	0.075	1	24.618	Bromodichloromethane
12.641	2946103	VV	0.068	1	24.616	c-1,3-Dichloropropene
13.608	2004480	VV	0.064	1	24.737	t-1,3-Dichloropropene
13.770	1840848	VV	0.077	1-I	40.000	Bromochloropropane
13.929	2864720	VV	0.074	1	24.643	1,1,2-Trichloroethane
14.195	7017275	VV	0.089	1	48.660	Tetraclethene ; 13Diclpropane
14.629	1908815	VV	0.071	1	24.651	Dibromochloromethane
14.828	1441794	VV	0.089	1	24.697	1,2-Dibromoethane (EDB)
15.690	1867070	VV	0.059	1	24.748	Chlorobenzene
15.828	4652011	VV	0.071	1	24.573	1,1,1,2-Tetrachloroethane
17.114	1010600	VV	0.069	1	25.238	Bromoform
17.584	1179319	VV	0.062	1	97.509	1,4-Dichlorobutane (surr)
17.931	3735368	VV	0.085	1	74.383	Brbenzene;123triclprop;1122tet
18.265	1815554	VV	0.059	1	24.725	2-Chlorotoluene
18.451	1821828	VV	0.059	1	24.681	4-Chlorotoluene
19.532	2403157	PV	0.055	1	24.696	1,3-Dichlorobenzene
19.682	2597968	VV	0.059	1	24.631	1,4-Dichlorobenzene
20.308	2142188	VV	0.057	1	24.609	1,2-Dichlorobenzene
21.620	270645	BV	0.070	1	24.880	1,2-Dibromo-3-chloropropane
22.990	1733608	PV	0.055	1	24.882	1,2,4-Trichlorobenzene
23.277	2521420	VV	0.060	1	24.499	Hexachlorobutadiene
23.790	1337187	VBA	0.057	1	25.095	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0

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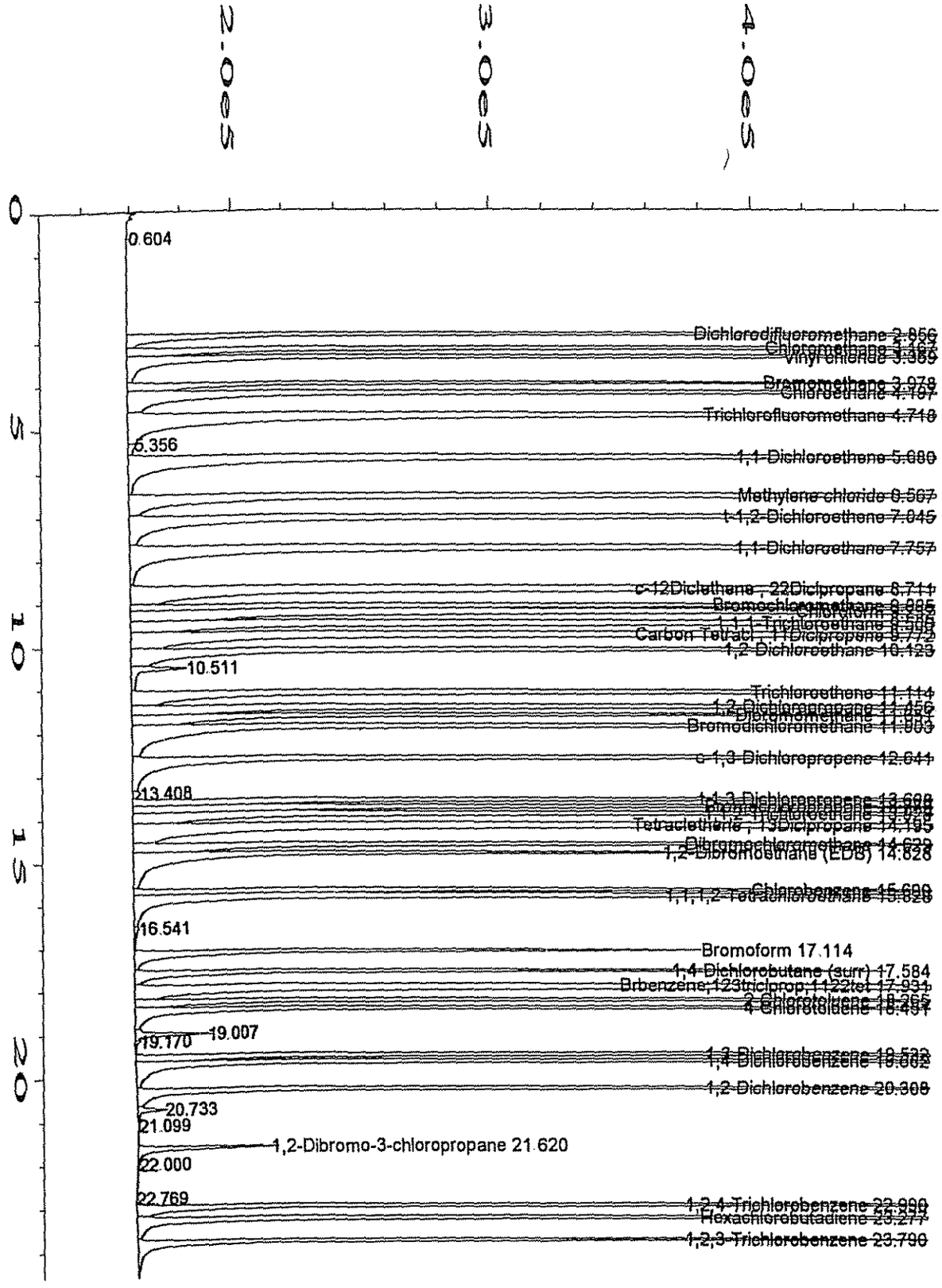


Data File Name	: C:\HPCHEM\1\DATA\071505\013F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 13
Sample Name	: v25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 02:44 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

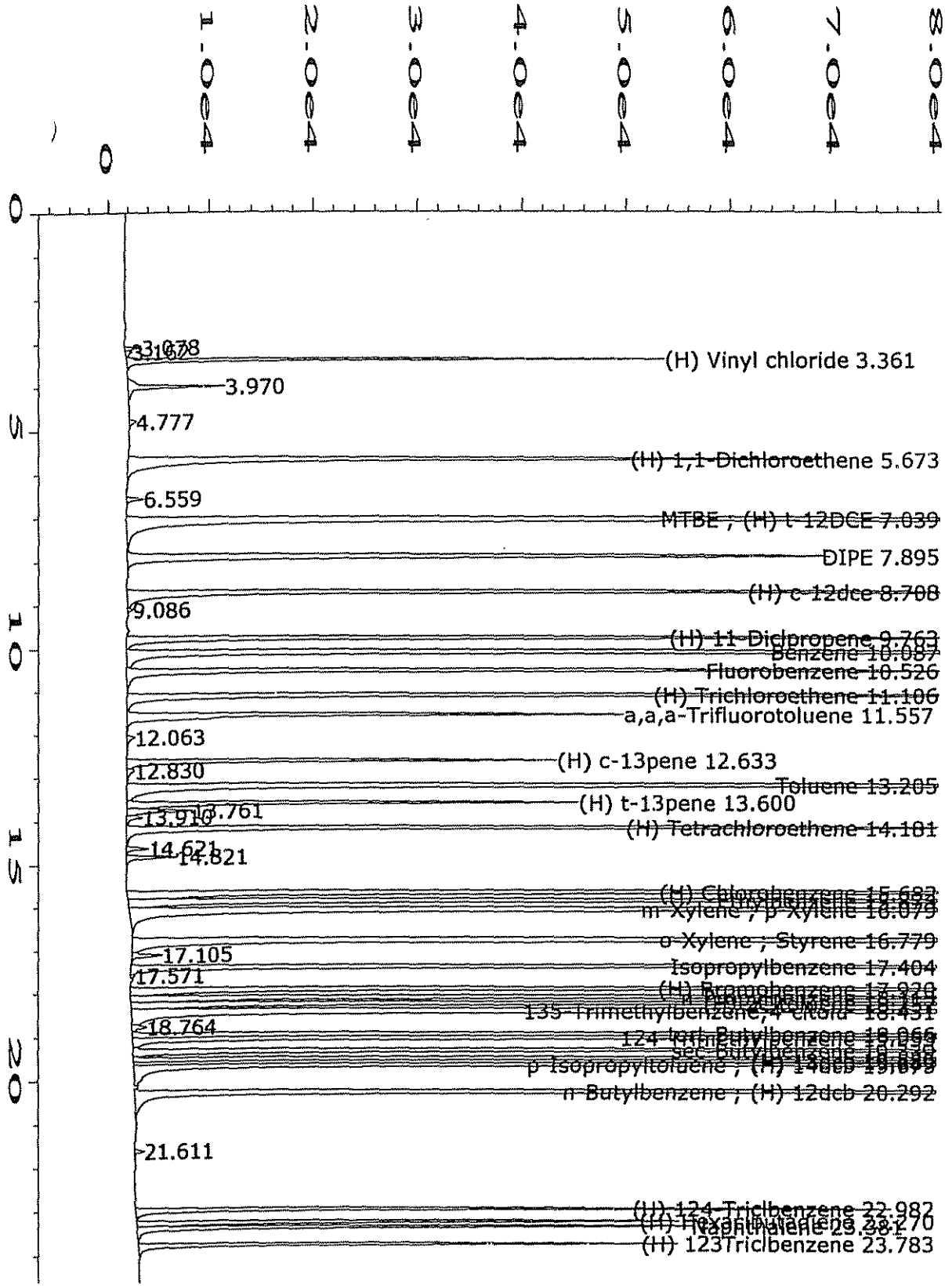
Data File Name : C:\HPCHEM\1\DATA\071505\013R0101.D
Operator : MJC
Instrument : GC3
Sample Name : v25
Run Time Bar Code:
Acquired on : 15 Jul 05 02:44 PM
Report Created on: 16 Jul 05 07:54 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\013R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.361	154436	VB	0.045	1	24.944	(H) Vinyl chloride
5.673	349429	BB	0.077	1	25.487	(H) 1,1-Dichloroethene
7.039	999921	BV	0.067	1	51.349	MTBE ; (H) t-12DCE
7.895	367209	VV	0.084	1	25.612	DIPE
8.708	402594	BV	0.063	1	25.517	(H) c-12dce
9.763	367063	VV	0.062	1	25.412	(H) 11-Diclpropene
10.087	885162	VV	0.062	1	25.581	Benzene
10.526	382457	VV	0.062	1-I	40.000	Fluorobenzene
11.106	504472	VV	0.059	1	25.348	(H) Trichloroethene
11.557	232053	VV	0.072	1	112.499	a,a,a-Trifluorotoluene
12.633	160010	BV	0.059	1	25.327	(H) c-13pene
13.205	817231	VV	0.063	1	25.502	Toluene
13.600	168879	VV	0.059	1	25.331	(H) t-13pene
14.181	388680	VV	0.062	1	25.491	(H) Tetrachloroethene
15.682	784990	BV	0.057	1	25.591	(H) Chlorobenzene
15.873	727619	VV	0.058	1	25.629	Ethylbenzene
16.079	1658476	VB	0.059	1	51.360	m-Xylene ; p-Xylene
16.779	1381028	BV	0.068	1	51.377	o-Xylene ; Styrene
17.404	558084	VV	0.057	1	25.539	Isopropylbenzene
17.920	696013	PV	0.053	1	25.840	(H) Bromobenzene
18.113	624115	VV	0.054	1	25.661	n-Propylbenzene
18.257	694184	VV	0.054	1	25.833	(H) 2Cltoluene
18.431	1607614	VV	0.062	1	51.849	135-Trimethylbenzene;4-cltolu
18.966	478091	VV	0.055	1	25.738	tert-Butylbenzene
19.053	700725	VV	0.052	1	25.748	124-Trimethylbenzene
19.339	490133	VV	0.056	1	25.657	sec-Butylbenzene
19.589	477040	VV	0.048	1	25.670	(H) 13dcb
19.675	646996	VV	0.050	1	51.849	p-Isopropyltoluene ; (H) 14dcb
20.292	886710	VV	0.055	1	51.580	n-Butylbenzene ; (H) 12dcb
22.982	229697	BV	0.049	1	25.795	(H) 124-Triclbenzene
23.270	180181	VV	0.053	1	25.772	(H) Hexaclbutadiene
23.381	172378	VV	0.049	1	26.088	Naphthalene
23.783	167114	VV	0.050	1	25.920	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\071505\013R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 13
ample Name	: v25	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 02:44 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

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Internal Standard Report

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File Name : C:\HPCHEM\1\DATA\071505\014F0101.D
ator : MJC
rument : GC3
ıle Name : v40
Time Bar Code:
ıired on : 15 Jul 05 03:15 PM
ɔrt Created on: 16 Jul 05 07:54 AM
: Recalib on : 16 JUL 05 07:43 AM
tiplier : 1

Page Number : 1
Vial Number :)14
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

. 1 in C:\HPCHEM\1\DATA\071505\014F0101.D

Time	Area	Type	Width	Ref#	µg/L	Name
2.855	3711072	BV	0.044	1	35.969	Dichlorodifluoromethane
3.168	4451928	VV	0.051	1	36.653	Chloromethane
3.369	3922545	VV	0.056	1	36.488	Vinyl chloride
3.977	1945654	VV	0.054	1	38.248	Bromomethane
4.188	4104774	VV	0.077	1	37.141	Chloroethane
4.715	5369428	VV	0.106	1	37.069	Trichlorofluoromethane
5.680	6332360	VV	0.087	1	36.050	1,1-Dichloroethene
6.568	6512413	VV	0.073	1	35.600	Methylene chloride
7.047	6595100	VV	0.074	1	35.593	t-1,2-Dichloroethene
7.759	6817815	VV	0.093	1	35.738	1,1-Dichloroethane
8.712	1.06065E+007	VV	0.079	1	69.189	c-12Diclethene ; 22Diclpropane
9.097	3455127	VV	0.064	1	36.253	Bromochloromethane
9.234	7991028	VV	0.075	1	35.285	Chloroform
9.507	7453840	VV	0.086	1	35.212	1,1,1-Trichloroethane
9.772	1.19433E+007	VV	0.076	1	68.763	Carbon Tetracl ; 11Diclpropene
10.123	4590930	VV	0.068	1	35.347	1,2-Dichloroethane
11.114	6987554	VV	0.069	1	35.247	Trichloroethene
11.457	5348960	VV	0.071	1	34.996	1,2-Dichloropropane
11.650	2276676	VV	0.068	1	35.724	Dibromomethane
11.904	4924379	VV	0.075	1	34.599	Bromodichloromethane
12.640	4402393	VV	0.067	1	35.777	c-1,3-Dichloropropene
13.607	3073866	VV	0.063	1	36.578	t-1,3-Dichloropropene
13.771	1903727	VV	0.075	1-I	40.000	Bromochloropropane
13.929	4149059	VV	0.073	1	35.279	1,1,2-Trichloroethane
14.197	1.02127E+007	VV	0.085	1	69.434	Tetraclethene ; 13Diclpropane
14.630	2892309	VV	0.068	1	36.365	Dibromochloromethane
14.828	2233781	VV	0.082	1	37.332	1,2-Dibromoethane (EDB)
15.690	2838105	VV	0.060	1	36.488	Chlorobenzene
15.829	6715027	VV	0.071	1	34.668	1,1,1,2-Tetrachloroethane
17.113	1542839	PV	0.069	1	37.170	Bromoform
17.585	1203651	VV	0.062	1	96.234	1,4-Dichlorobutane (surr)
17.932	5537373	VV	0.083	1	107.713	Brbenzene;123triclprop;1122tet
18.265	2683260	VV	0.060	1	35.644	2-Chlorotoluene
18.451	2668226	VV	0.060	1	35.306	4-Chlorotoluene
19.532	3504223	PV	0.055	1	34.998	1,3-Dichlorobenzene
19.682	3758738	VV	0.059	1	34.776	1,4-Dichlorobenzene
20.308	3144833	VV	0.057	1	35.195	1,2-Dichlorobenzene
21.618	421418	BV	0.068	1	37.342	1,2-Dibromo-3-chloropropane
22.989	2525949	PV	0.056	1	35.211	1,2,4-Trichlorobenzene
23.278	3660010	VV	0.061	1	34.842	Hexachlorobutadiene
23.790	1918989	VBA	0.056	1	35.077	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0

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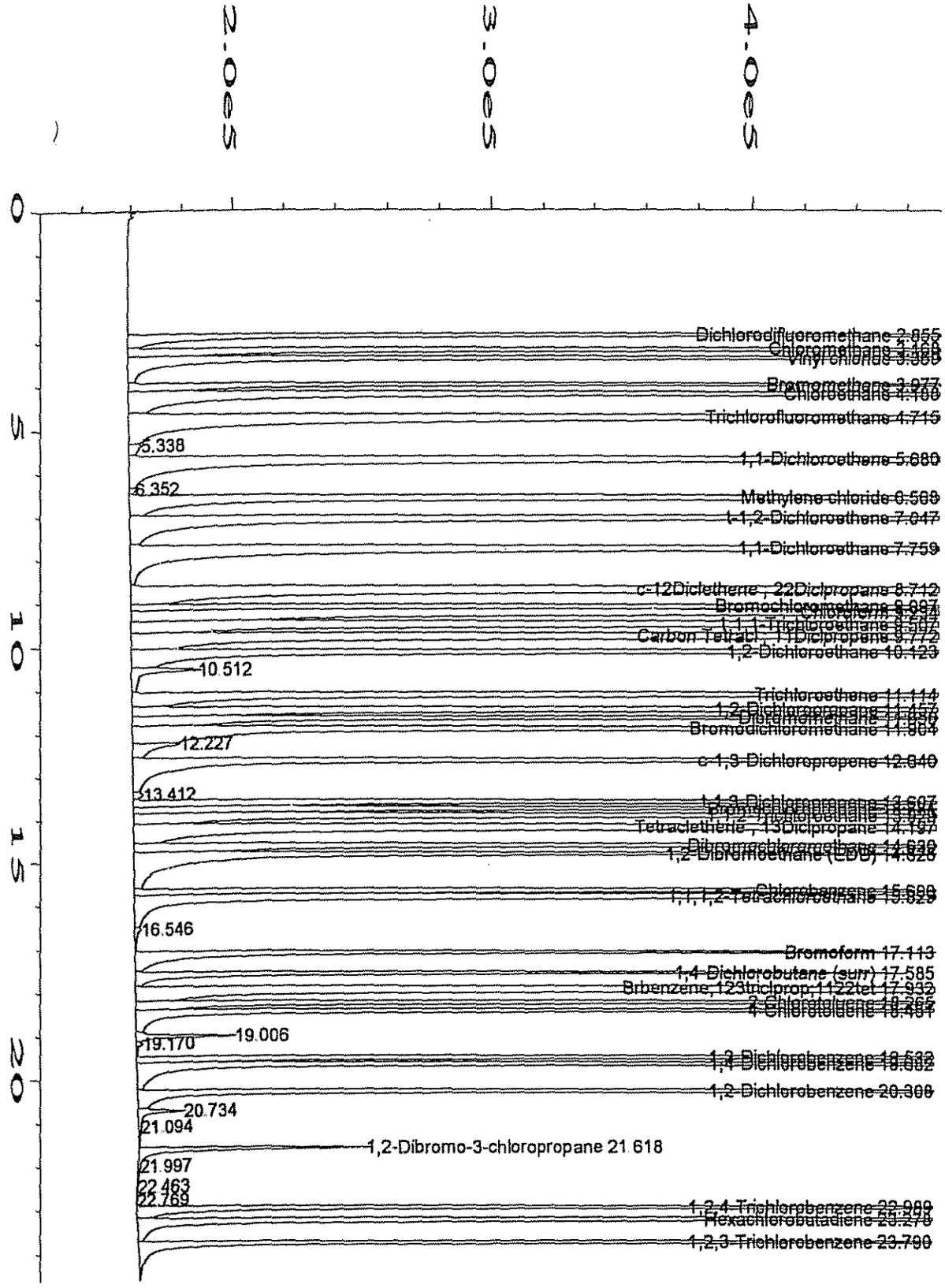


Data File Name	: C:\HPCHEM\1\DATA\071505\014F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 14
Sample Name	: v40	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 03:15 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

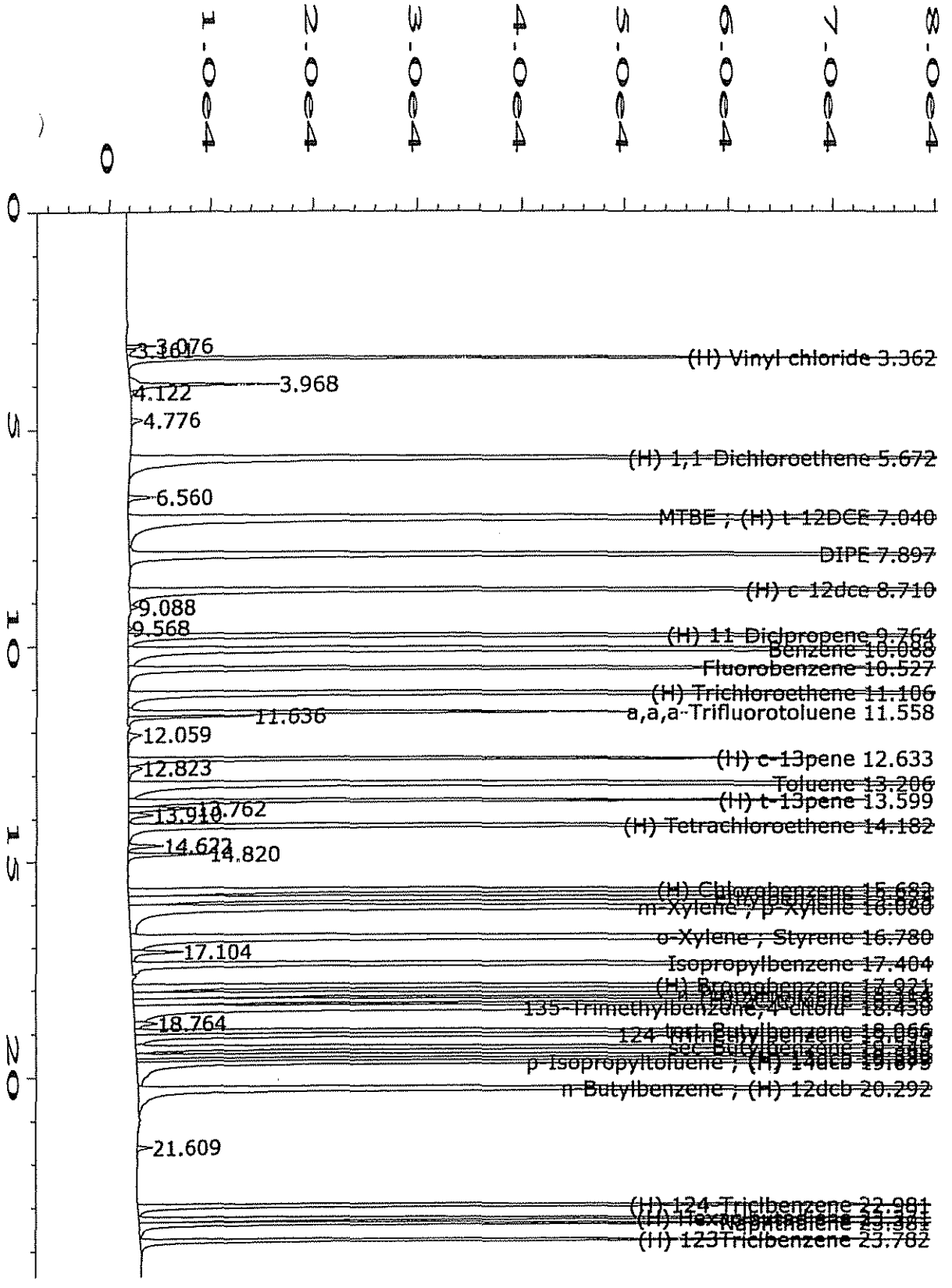
ıta File Name : C:\HPCHEM\1\DATA\071505\014R0101.D
›erator : MJC
ıstrument : GC3
ımple Name : v40
ın Time Bar Code:
:quired on : 15 Jul 05 03:15 PM
ɜport Created on: 16 Jul 05 07:54 AM
ıst Recalib on : 16 JUL 05 07:20 AM
ıltiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 2 in C:\HPCHEM\1\DATA\071505\014R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
3.362	249611	VV	0.044	1	40.056	(H) Vinyl chloride
5.672	552780	BB	0.078	1	39.721	(H) 1,1-Dichloroethene
7.040	1566850	BV	0.067	1	79.111	MTBE ; (H) t-12DCE
7.897	577953	VV	0.085	1	39.567	DIPE
8.710	633954	BV	0.063	1	39.478	(H) c-12dce
9.764	578779	VV	0.061	1	39.385	(H) 11-Diclpropene
10.088	1387856	VV	0.062	1	39.452	Benzene
10.527	389989	VV	0.062	1-I	40.000	Fluorobenzene
11.106	801839	VV	0.058	1	39.621	(H) Trichloroethene
11.558	210901	VV	0.066	1	100.270	a,a,a-Trifluorotoluene
12.633	255815	VV	0.058	1	39.653	(H) c-13pene
13.206	1286329	VV	0.062	1	39.457	Toluene
13.599	270412	VV	0.058	1	39.521	(H) t-13pene
14.182	614309	VV	0.062	1	39.618	(H) Tetrachloroethene
15.682	1234452	BV	0.056	1	39.519	(H) Chlorobenzene
15.873	1140956	VV	0.058	1	39.562	Ethylbenzene
16.080	2595431	VV	0.059	1	79.178	m-Xylene ; p-Xylene
16.780	2163265	VV	0.067	1	79.150	o-Xylene ; Styrene
17.404	877541	VV	0.058	1	39.505	Isopropylbenzene
17.921	1087575	PV	0.054	1	39.682	(H) Bromobenzene
18.114	975827	VV	0.054	1	39.489	n-Propylbenzene
18.258	1076781	VV	0.052	1	39.479	(H) 2Cltoluene
18.430	2490518	VV	0.059	1	79.194	135-Trimethylbenzene;4-cltolu
18.966	745534	VV	0.055	1	39.550	tert-Butylbenzene
19.053	1093458	VV	0.052	1	39.528	124-Trimethylbenzene
19.340	766875	VV	0.056	1	39.522	sec-Butylbenzene
19.589	743023	VV	0.048	1	39.522	(H) 13dcb
19.675	1006194	VV	0.050	1	79.347	p-Isopropyltoluene ; (H) 14dcb
20.292	1383886	VV	0.055	1	79.184	n-Butylbenzene ; (H) 12dcb
22.981	358861	BV	0.048	1	39.507	(H) 124-Triclbenzene
23.271	278484	VV	0.054	1	39.364	(H) Hexaclbutadiene
23.381	267017	VV	0.048	1	39.436	Naphthalene
23.782	257744	VV	0.049	1	39.229	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\014R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 14
Sample Name	: v40	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 03:15 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

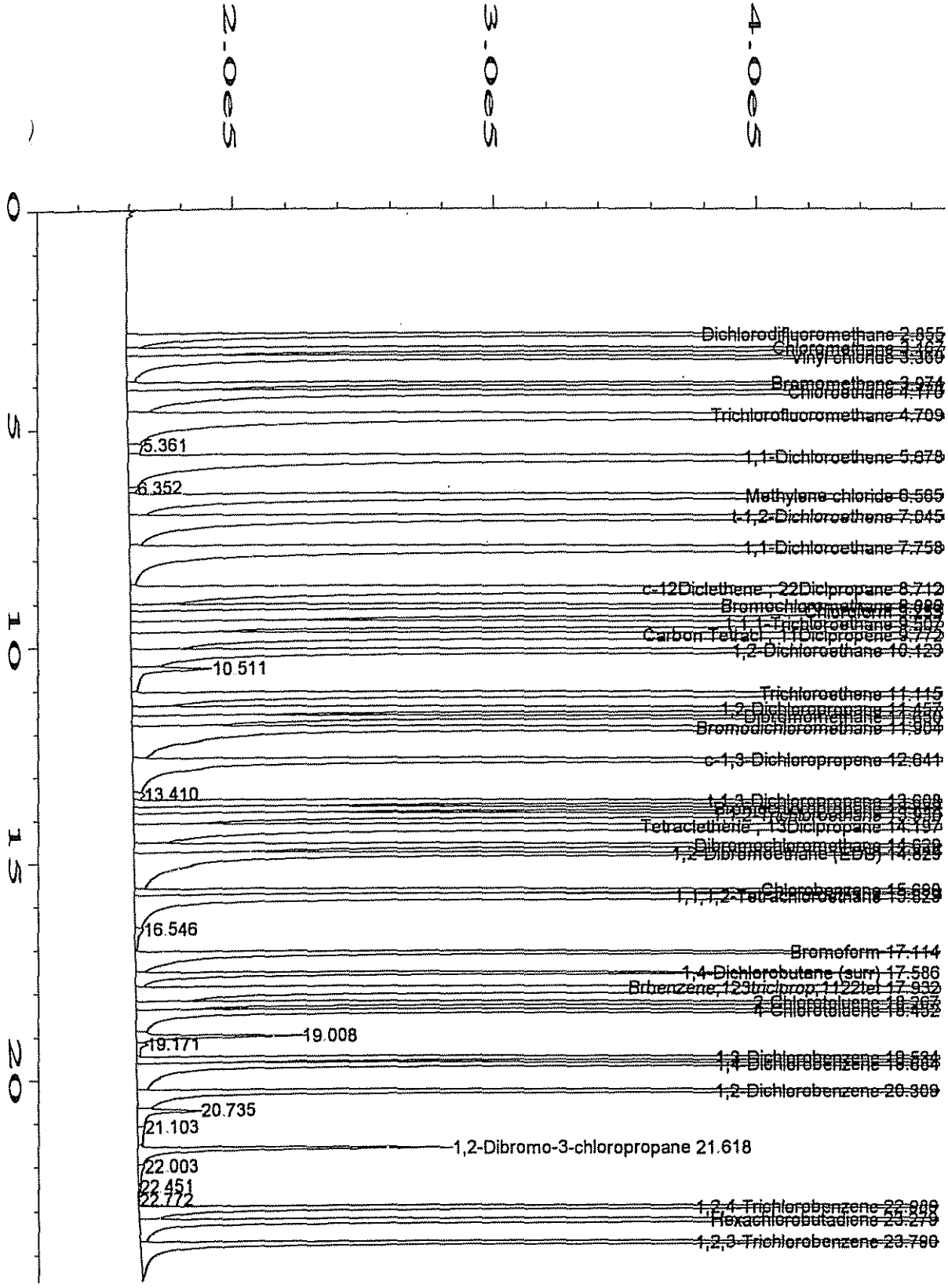
ata File Name : C:\HPCHEM\1\DATA\071505\015F0101.D
perator : MJC
nstrument : GC3
ample Name : v50
un Time Bar Code:
cquired on : 15 Jul 05 03:46 PM
eport Created on: 16 Jul 05 07:54 AM
ast Recalib on : 16 JUL 05 07:43 AM
ultiplier : 1

Page Number) : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\071505\015F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.855	4507631	BV	0.043	1	43.004	Dichlorodifluoromethane
3.167	5400495	VV	0.054	1	43.772	Chloromethane
3.369	4771733	VV	0.053	1	43.742	Vinyl chloride
3.974	2409323	VV	0.056	1	46.540	Bromomethane
4.176	4975498	VV	0.077	1	44.302	Chloroethane
4.709	6562710	VV	0.108	1	44.588	Trichlorofluoromethane
5.678	7867327	VV	0.088	1	44.081	1,1-Dichloroethene
6.565	7930940	VV	0.074	1	42.685	Methylene chloride
7.045	8153898	VV	0.072	1	43.323	t-1,2-Dichloroethene
7.758	8398772	VV	0.089	1	43.334	1,1-Dichloroethane
8.712	1.30492E+007	VV	0.081	1	83.866	c-12Diclethene ; 22Diclpropane
9.096	4346584	VV	0.066	1	44.845	Bromochloromethane
9.233	9784429	VV	0.080	1	42.557	Chloroform
9.507	9195039	VV	0.083	1	42.784	1,1,1-Trichloroethane
9.772	1.48479E+007	VV	0.079	1	84.323	Carbon Tetracl ; 11Diclpropene
10.123	5691449	VV	0.068	1	43.145	1,2-Dichloroethane
11.115	8577852	VV	0.069	1	42.605	Trichloroethene
11.457	6593064	VV	0.071	1	42.517	1,2-Dichloropropane
11.650	2873022	VV	0.067	1	44.292	Dibromomethane
11.904	6336253	VV	0.073	1	43.804	Bromodichloromethane
12.641	5461458	VV	0.069	1	43.637	c-1,3-Dichloropropene
13.608	3879000	VV	0.064	1	45.226	t-1,3-Dichloropropene
13.772	1940792	VV	0.072	1-I	40.000	Bromochloropropane
13.930	5115421	VV	0.071	1	43.066	1,1,2-Trichloroethane
14.197	1.23818E+007	VV	0.083	1	83.017	Tetraclethene ; 13Diclpropane
14.629	3567113	VV	0.068	1	44.103	Dibromochloromethane
14.829	2808837	VV	0.083	1	46.201	1,2-Dibromoethane (EDB)
15.690	3525016	VV	0.062	1	44.505	Chlorobenzene
15.829	8266620	VV	0.072	1	42.057	1,1,1,2-Tetrachloroethane
17.114	1990644	VV	0.071	1	46.994	Bromoform
17.586	1243428	VV	0.061	1	97.516	1,4-Dichlorobutane (surr)
17.932	6854279	VV	0.084	1	131.322	Brbenzene;123triclprop;1122tet
18.267	3411889	VV	0.059	1	44.636	2-Chlorotoluene
18.452	3384224	VV	0.059	1	44.132	4-Chlorotoluene
19.534	4417905	VV	0.055	1	43.381	1,3-Dichlorobenzene
19.684	4727547	VV	0.059	1	43.090	1,4-Dichlorobenzene
20.309	3931630	VV	0.059	1	43.300	1,2-Dichlorobenzene
21.618	569167	VV	0.069	1	49.395	1,2-Dibromo-3-chloropropane
22.989	3161242	PV	0.055	1	43.311	1,2,4-Trichlorobenzene
23.279	4519656	VV	0.061	1	42.441	Hexachlorobutadiene
23.790	2419834	VBA	0.055	1	43.541	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\015F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 15
Sample Name	: v50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 03:46 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

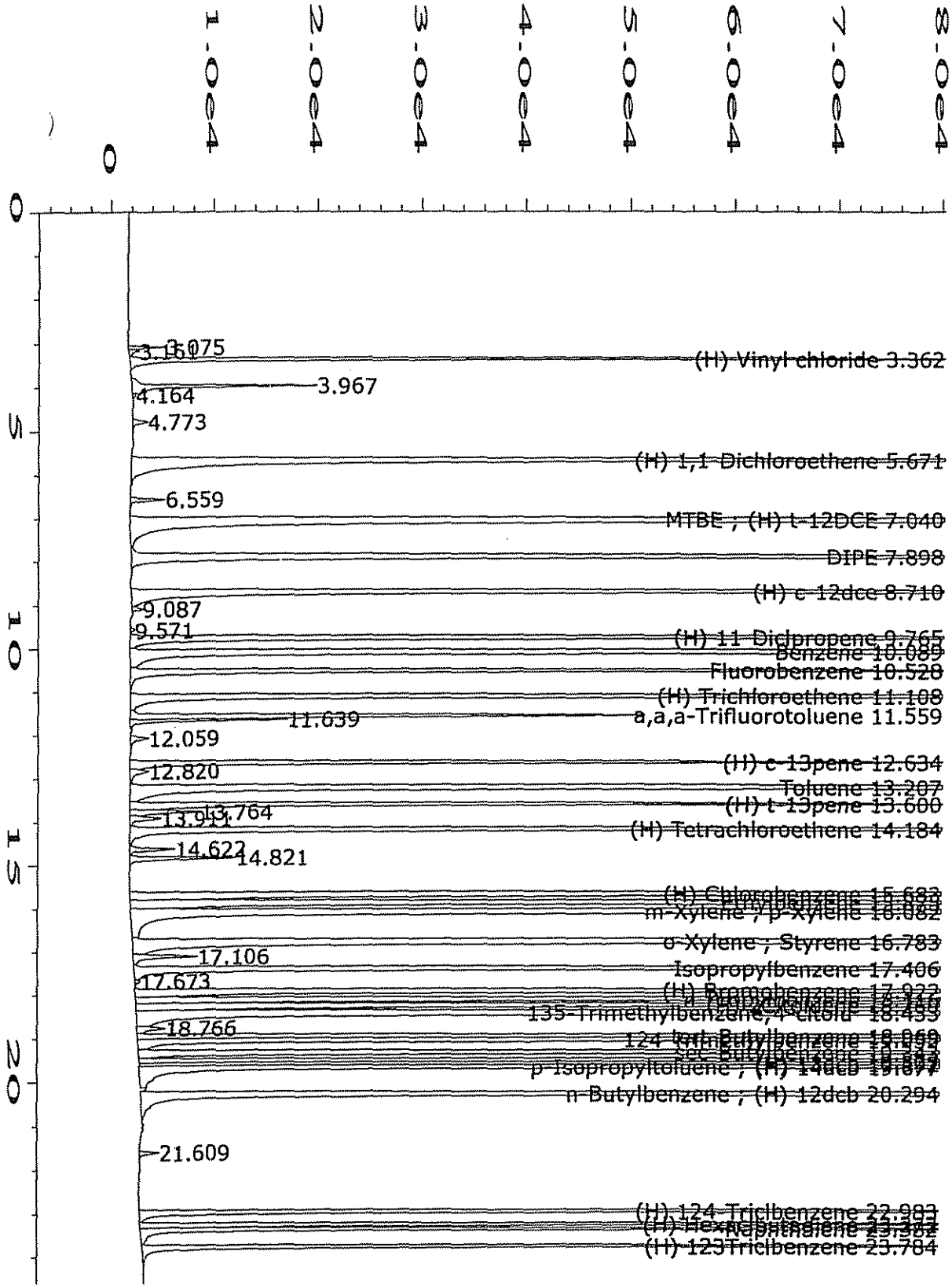
ta File Name : C:\HPCHEM\1\DATA\071505\015R0101.D
erator : MJC
strument : GC3
mple Name : v50
n Time Bar Code:
quired on : 15 Jul 05 03:46 PM
port Created on: 16 Jul 05 07:54 AM
st Recalib on : 16 JUL 05 07:20 AM
ltiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\071505\015R0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
3.362	310240	VB	0.043	1	49.934	(H) Vinyl chloride
5.671	695089	BB	0.079	1	49.964	(H) 1,1-Dichloroethene
7.040	1987136	BV	0.067	1	100.299	MTBE ; (H) t-12DCE
7.898	734765	VV	0.083	1	50.254	DIPE
8.710	807774	BV	0.063	1	50.273	(H) c-12dce
9.765	740207	VV	0.061	1	50.348	(H) 11-Diclpropene
10.089	1767506	VV	0.061	1	50.237	Benzene
10.528	390506	VV	0.061	1-I	40.000	Fluorobenzene
11.108	1016122	VV	0.058	1	50.194	(H) Trichloroethene
11.559	210342	VV	0.065	1	99.871	a,a,a-Trifluorotoluene
12.634	325276	BV	0.058	1	50.325	(H) c-13pene
13.207	1640824	VV	0.063	1	50.309	Toluene
13.600	346869	VV	0.057	1	50.502	(H) t-13pene
14.184	778060	VV	0.062	1	50.164	(H) Tetrachloroethene
15.683	1571329	BV	0.056	1	50.263	(H) Chlorobenzene
15.875	1445454	VV	0.058	1	50.128	Ethylbenzene
16.082	3281236	VV	0.059	1	100.141	m-Xylene ; p-Xylene
16.783	2741589	VV	0.067	1	100.289	o-Xylene ; Styrene
17.406	1116048	VV	0.058	1	50.236	Isopropylbenzene
17.922	1373482	VV	0.055	1	50.089	(H) Bromobenzene
18.116	1239882	VV	0.054	1	50.181	n-Propylbenzene
18.260	1366955	VV	0.052	1	50.145	(H) 2Cltoluene
18.433	3141204	VV	0.060	1	99.963	135-Trimethylbenzene;4-cltolu
18.969	943672	VV	0.056	1	50.089	tert-Butylbenzene
19.055	1388166	VV	0.052	1	50.179	124-Trimethylbenzene
19.343	972942	VV	0.057	1	50.152	sec-Butylbenzene
19.592	941090	VV	0.048	1	50.148	(H) 13dcb
19.677	1268568	VV	0.050	1	100.038	p-Isopropyltoluene ; (H) 14dcb
20.294	1752041	VV	0.055	1	100.235	n-Butylbenzene ; (H) 12dcb
22.983	458113	PV	0.048	1	50.360	(H) 124-Triclbenzene
23.272	354483	VV	0.054	1	50.199	(H) Hexaclbutadiene
23.382	343849	VV	0.048	1	50.609	Naphthalene
23.784	333108	VB	0.049	1	50.645	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\015R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 15
Sample Name	: v50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 03:46 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 07:54 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 CVS Raw Data

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\019f0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Bromodichloromethane	10.9	109.0	76.0	124.0	109	42	172
	Bromoform	10.0	99.7	73.5	126.5	100	13	159
	Bromomethane	10.6	106.3	58.5	141.5	106	D	144
	Carbon tetrachloride	11.4	114.2	68.5	131.5	114	43	143
	Chlorobenzene	10.5	105.2	72.0	128.0	105	38	150
	Chloroethane	11.0	109.7	77.0	123.0	110	46	137
	Chloroform	11.3	112.7	75.0	125.0	113	49	133
	Chloromethane	10.9	109.2	59.5	140.5	109	D	193
	Dibromochloromethane	10.6	106.1	65.5	134.5	106	24	191
•	1,2-Dibromoethane	10.6	106.0	13.6	186.4	106	D	206
	1,2-Dichlorobenzene	10.4	104.3	70.0	130.0	104	D	208
	1,3-Dichlorobenzene	10.4	104.5	49.5	150.5	104	7	187
	1,4-Dichlorobenzene	10.5	105.5	69.5	130.5	105	42	143
	1,1-Dichloroethane	11.2	112.4	84.0	116.0	112	47	132
	1,2-Dichloroethane	11.0	110.4	71.5	128.5	110	51	147
	1,1-Dichloroethene	11.2	111.7	63.0	137.0	112	28	167
•	cis-1,2-Dichloroethene	11.0	110.1	34.4	180.6	110	19	181
	trans-1,2-Dichloroethene	11.2	112.2	64.0	136.0	112	38	155
	1,2-Dichloropropane	11.1	111.5	74.0	126.0	111	44	156
	cis-1,3-Dichloropropene	10.8	107.6	64.0	136.0	108	22	178
	trans-1,3-Dichloropropene	10.1	101.5	64.0	136.0	101	22	178
	Methylene Chloride	11.2	111.5	77.5	122.5	112	25	162
	1,1,2,2-Tertrachloroethane	10.4	104.1	49.0	151.0	104	8	184
	Tetrachloroethane	11.2	112.1	70.0	130.0	112	26	162
	1,1,1-Trichloroethane	11.2	112.1	71.0	129.0	112	41	138
	1,1,2-Trichloroethane	10.8	108.4	78.5	121.5	108	39	136
	Trichloroethene	11.4	114.0	77.0	123.0	114	35	146
	Trichlorofluromethane	11.1	110.7	66.5	133.5	111	21	156
	Vinyl Chloride	10.8	107.6	68.5	131.5	108	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\019r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.3	102.6	77.0	123.0	103	39	150
	Chlorobenzene	10.1	101.5	80.5	119.5	101	55	135
	1,2-Dichlorobenzene	10.0	99.6	68.0	132.0	100	37	154
	1,3-Dichlorobenzene	10.3	102.8	72.5	127.5	103	50	141
	1,4-Dichlorobenzene	10.2	101.6	69.5	130.5	102	42	143
•	Diisopropyl ether	9.8	98.4	43.1	156.9	98	30	170
	Ethylbenzene	10.3	103.2	63.0	137.0	103	32	160
•	MTBE	10.1	101.4	46.8	153.2	101	35	166
	Toluene	10.2	102.3	77.5	127.0	102	46	148
•	m,p-Xylene	21.0	104.8	11.2	188.8	105	D	239
•	o-Xylene	10.5	104.7	47.6	152.4	105	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by:_____

Internal Standard Report

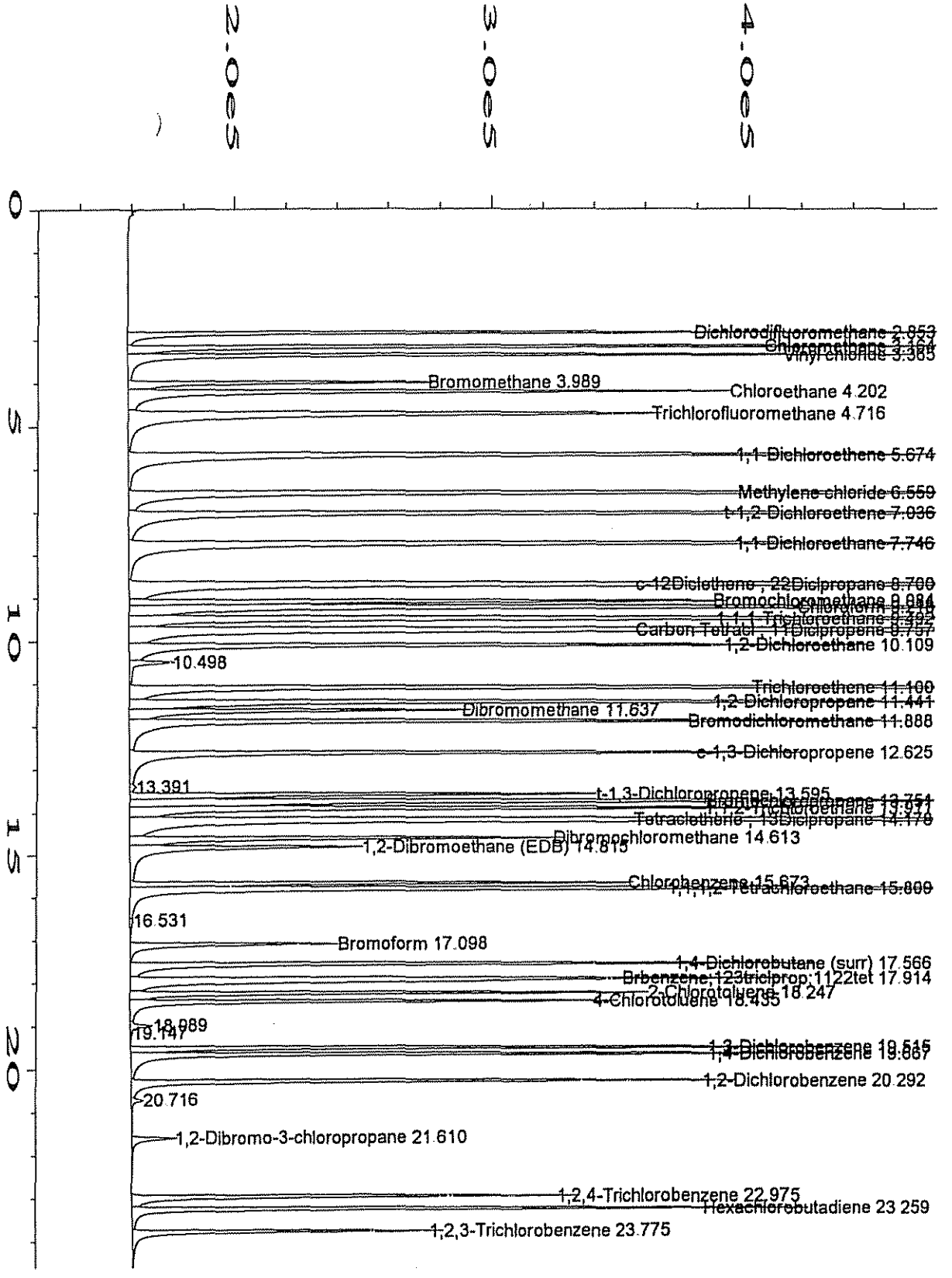
Data File Name : C:\HPCHEM\1\DATA\071505\019F0101.D
Operator : MJC
Instrument : GC3
Sample Name : qchk010
Run Time Bar Code:
Acquired on : 15 Jul 05 05:49 PM
Report Created on: 16 Jul 05 08:00 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\019F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.853	996846	BV	0.043	1	10.060	Dichlorodifluoromethane
3.164	1271519	VV	0.051	1	10.919	Chloromethane
3.365	1123948	VV	0.054	1	10.759	Vinyl chloride
3.989	504788	VV	0.063	1	10.625	Bromomethane
4.202	1156065	VV	0.075	1	10.965	Chloroethane
4.716	1527488	VV	0.107	1	11.070	Trichlorofluoromethane
5.674	1860095	VV	0.088	1	11.169	1,1-Dichloroethene
6.559	1949579	VV	0.072	1	11.154	Methylene chloride
7.036	1977806	VV	0.071	1	11.218	t-1,2-Dichloroethene
7.746	2037073	VV	0.085	1	11.239	1,1-Dichloroethane
8.700	3240436	VV	0.077	1	22.025	c-12Diclethene ; 22Diclpropane
9.084	965755	VV	0.065	1	10.800	Bromochloromethane
9.218	2446783	VV	0.071	1	11.273	Chloroform
9.492	2269477	VV	0.080	1	11.211	1,1,1-Trichloroethane
9.757	3834130	VV	0.074	1	22.849	Carbon Tetracl ; 11Diclpropene
10.109	1365543	VV	0.071	1	11.035	1,2-Dichloroethane
11.100	2152828	VV	0.068	1	11.396	Trichloroethene
11.441	1642208	VV	0.075	1	11.145	1,2-Dichloropropane
11.637	633798	VV	0.070	1	10.709	Dibromomethane
11.888	1457660	VV	0.072	1	10.896	Bromodichloromethane
12.625	1242602	VV	0.074	1	10.763	c-1,3-Dichloropropene
13.595	764624	VV	0.065	1	10.145	t-1,3-Dichloropropene
13.751	1734137	VV	0.075	1-I	40.000	Bromochloropropane
13.911	1296018	VV	0.074	1	10.840	1,1,2-Trichloroethane
14.178	3208905	VV	0.086	1	22.415	Tetraclethene ; 13Diclpropane
14.613	795392	VV	0.072	1	10.608	Dibromochloromethane
14.815	603505	VV	0.094	1	10.604	1,2-Dibromoethane (EDB)
15.673	757398	VV	0.061	1	10.521	Chlorobenzene
15.809	2063607	VV	0.070	1	11.078	1,1,1,2-Tetrachloroethane
17.098	371757	VV	0.067	1	9.967	Bromoform
17.566	1098268	VV	0.064	1	96.396	1,4-Dichlorobutane (surr)
17.914	1544337	VV	0.084	1	31.236	Brbenzene;123triclprop;1122tet
18.247	761251	VV	0.059	1	10.604	2-Chlorotoluene
18.435	766981	VV	0.061	1	10.562	4-Chlorotoluene
19.515	979999	PV	0.057	1	10.448	1,3-Dichlorobenzene
19.667	1091568	VV	0.058	1	10.547	1,4-Dichlorobenzene
20.292	883921	VV	0.057	1	10.430	1,2-Dichlorobenzene
21.610	98802	BB	0.082	1	9.785	1,2-Dibromo-3-chloropropane
22.975	643614	BV	0.056	1	9.578	1,2,4-Trichlorobenzene
23.259	1025783	VV	0.060	1	9.942	Hexachlorobutadiene
23.775	489928	VBA	0.060	1	9.361	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\019F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 19
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 05:49 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

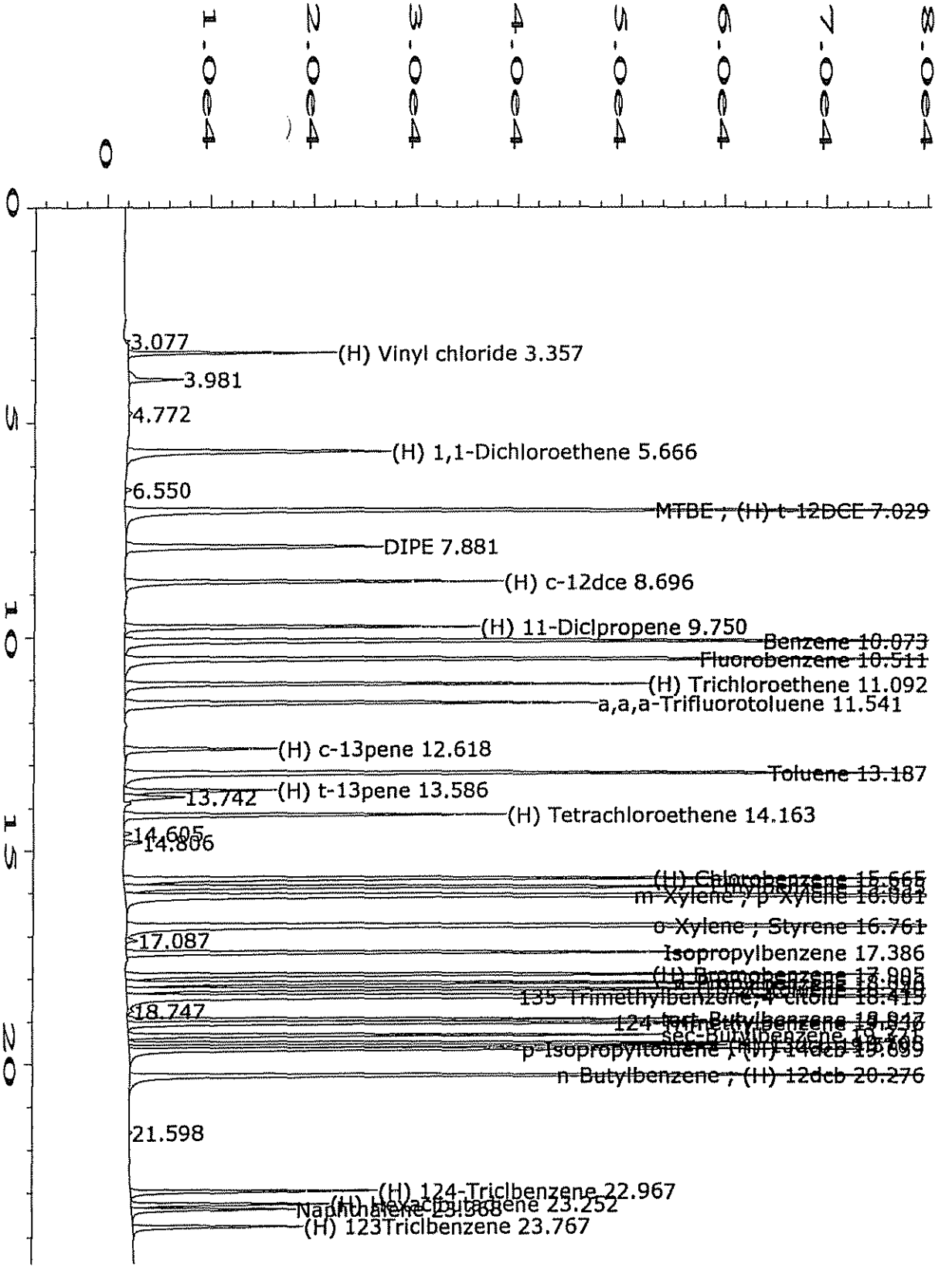
Data File Name : C:\HPCHEM\1\DATA\071505\019R0101.D
Operator : MJC
Instrument : GC3
Sample Name : qchk010
Run Time Bar Code:
Acquired on : 15 Jul 05 05:49 PM
Report Created on: 16 Jul 05 08:00 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\019R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.357	58862	BB	0.044	1	9.387	(H) Vinyl chloride
5.666	133941	BB	0.078	1	9.999	(H) 1,1-Dichloroethene
7.029	382739	BB	0.064	1	20.285	MTBE ; (H) t-12DCE
7.881	135723	BV	0.082	1	9.839	DIPE
8.696	152121	BV	0.063	1	9.979	(H) c-12dce
9.750	140007	BV	0.062	1	10.016	(H) 11-Diclpropene
10.073	344531	VV	0.062	1	10.261	Benzene
10.511	366492	VV	0.062	1-I	40.000	Fluorobenzene
11.092	198987	VV	0.059	1	10.320	(H) Trichloroethene
11.541	207698	VV	0.070	1	105.078	a,a,a-Trifluorotoluene
12.618	60589	BB	0.062	1	10.069	(H) c-13pene
13.187	317287	BV	0.063	1	10.233	Toluene
13.586	59694	VV	0.060	1	9.627	(H) t-13pene
14.163	151025	VB	0.062	1	10.219	(H) Tetrachloroethene
15.665	299980	BV	0.058	1	10.147	(H) Chlorobenzene
15.855	285146	VV	0.059	1	10.317	Ethylbenzene
16.061	660513	VB	0.061	1	20.958	m-Xylene ; p-Xylene
16.761	545493	BV	0.071	1	20.930	o-Xylene ; Styrene
17.386	219017	PV	0.057	1	10.326	Isopropylbenzene
17.905	265129	BV	0.055	1	10.175	(H) Bromobenzene
18.096	243964	VV	0.054	1	10.309	n-Propylbenzene
18.240	273519	VV	0.054	1	10.417	(H) 2Cltoluene
18.413	635605	VV	0.065	1	20.917	135-Trimethylbenzene;4-cltolu
18.947	188155	VV	0.055	1	10.360	tert-Butylbenzene
19.036	269412	VV	0.052	1	10.190	124-Trimethylbenzene
19.321	188946	VV	0.056	1	10.151	sec-Butylbenzene
19.570	189188	VV	0.048	1	10.278	(H) 13dcb
19.659	246796	VB	0.052	1	20.329	p-Isopropyltoluene ; (H) 14dcb
20.276	332461	BB	0.057	1	19.910	n-Butylbenzene ; (H) 12dcb
22.967	79813	BV	0.050	1	9.371	(H) 124-Triclbenzene
23.252	67275	VV	0.054	1	9.686	(H) Hexaclbutadiene
23.368	55675	VV	0.053	1	9.042	Naphthalene
23.767	57105	VB	0.052	1	9.214	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\019R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 19
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 05:49 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\020f0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Bromodichloromethane	11.0	110.0	76.0	124.0	110	42	172
Bromoform	9.9	99.1	73.5	126.5	99	13	159
Bromomethane	10.8	107.7	58.5	141.5	108	D	144
Carbon tetrachloride	11.4	114.2	68.5	131.5	114	43	143
Chlorobenzene	10.4	103.7	72.0	128.0	104	38	150
Chloroethane	11.3	112.7	77.0	123.0	113	46	137
Chloroform	11.3	112.6	75.0	125.0	113	49	133
Chloromethane	11.2	112.3	59.5	140.5	112	D	193
Dibromochloromethane	10.6	106.1	65.5	134.5	106	24	191
• 1,2-Dibromoethane	10.4	104.4	13.6	186.4	104	D	206
1,2-Dichlorobenzene	9.9	99.2	70.0	130.0	99	D	208
1,3-Dichlorobenzene	9.9	99.5	49.5	150.5	99	7	187
1,4-Dichlorobenzene	10.1	100.7	69.5	130.5	101	42	143
1,1-Dichloroethane	11.4	114.2	84.0	116.0	114	47	132
1,2-Dichloroethane	11.1	111.2	71.5	128.5	111	51	147
1,1-Dichloroethene	11.3	113.2	63.0	137.0	113	28	167
• cis-1,2-Dichloroethene	11.0	110.0	34.4	180.6	110	19	181
trans-1,2-Dichloroethene	11.4	113.7	64.0	136.0	114	38	155
1,2-Dichloropropane	11.2	112.2	74.0	126.0	112	44	156
cis-1,3-Dichloropropene	10.8	108.0	64.0	136.0	108	22	178
trans-1,3-Dichloropropene	10.1	100.7	64.0	136.0	101	22	178
Methylene Chloride	11.3	113.1	77.5	122.5	113	25	162
1,1,2,2-Tertrachloroethane	10.3	103.0	49.0	151.0	103	8	184
Tetrachloroethane	11.0	110.4	70.0	130.0	110	26	162
1,1,1-Trichloroethane	11.3	113.1	71.0	129.0	113	41	138
1,1,2-Trichloroethane	10.8	107.9	78.5	121.5	108	39	136
Trichloroethene	11.4	113.7	77.0	123.0	114	35	146
Trichlorofluromethane	11.4	113.5	66.5	133.5	114	21	156
Vinyl Chloride	11.1	111.0	68.5	131.5	111	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071505\020r0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Benzene	10.2	102.3	77.0	123.0	102	39	150
Chlorobenzene	9.9	99.5	80.5	119.5	99	55	135
1,2-Dichlorobenzene	9.0	90.2	68.0	132.0	90	37	154
1,3-Dichlorobenzene	9.3	92.9	72.5	127.5	93	50	141
1,4-Dichlorobenzene	9.5	95.4	69.5	130.5	95	42	143
• Diisopropyl ether	9.9	98.7	43.1	156.9	99	30	170
Ethylbenzene	10.0	100.2	63.0	137.0	100	32	160
• MTBE	10.2	102.0	46.8	153.2	102	35	165
Toluene	10.1	100.9	77.5	127.0	101	46	148
• m,p-Xylene	20.1	100.5	11.2	188.8	101	D	239
• o-Xylene	10.0	100.1	47.6	152.4	100	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by:_____

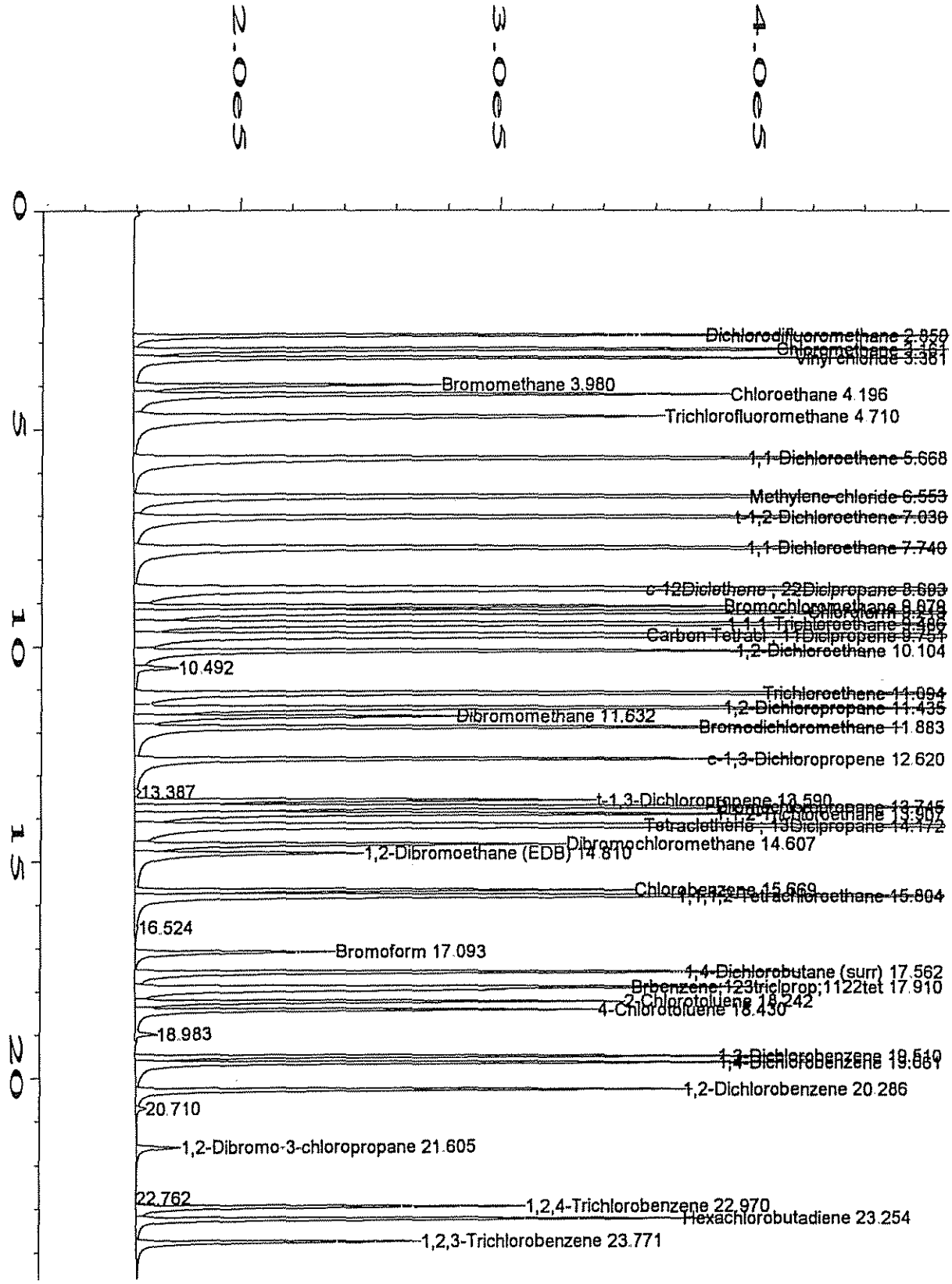
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\071505\020F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 20
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 06:20 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\020F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.850	1009674	BV	0.042	1	10.458	Dichlorodifluoromethane
3.161	1274699	VV	0.053	1	11.226	Chloromethane
3.361	1129424	VV	0.057	1	11.096	Vinyl chloride
3.980	499646	VV	0.064	1	10.769	Bromomethane
4.196	1158665	VV	0.072	1	11.268	Chloroethane
4.710	1528057	VV	0.104	1	11.353	Trichlorofluoromethane
5.668	1840224	VV	0.086	1	11.319	1,1-Dichloroethene
6.553	1930170	VV	0.073	1	11.314	Methylene chloride
7.030	1956498	VV	0.069	1	11.368	t-1,2-Dichloroethene
7.740	2020205	VV	0.085	1	11.420	1,1-Dichloroethane
8.693	3161380	VV	0.081	1	21.992	c-12Diclethene ; 22Diclpropane
9.079	954721	VV	0.062	1	10.934	Bromochloromethane
9.213	2388553	VV	0.073	1	11.264	Chloroform
9.486	2235578	VV	0.082	1	11.311	1,1,1-Trichloroethane
9.751	3745608	VV	0.074	1	22.848	Carbon Tetracl ; 11Diclpropene
10.104	1343918	VV	0.072	1	11.122	1,2-Dichloroethane
11.094	2098104	VV	0.066	1	11.367	Trichloroethene
11.435	1614033	VV	0.073	1	11.218	1,2-Dichloropropane
11.632	615853	VV	0.067	1	10.649	Dibromomethane
11.883	1437078	VV	0.070	1	11.000	Bromodichloromethane
12.620	1218272	VV	0.072	1	10.803	c-1,3-Dichloropropene
13.590	741199	VV	0.062	1	10.068	t-1,3-Dichloropropene
13.745	1694176	VV	0.074	1-I	40.000	Bromochloropropane
13.907	1261390	VV	0.075	1	10.792	1,1,2-Trichloroethane
14.172	3093671	VV	0.083	1	22.088	Tetraclethene ; 13Diclpropane
14.607	777218	VV	0.070	1	10.611	Dibromochloromethane
14.810	581133	VV	0.092	1	10.442	1,2-Dibromoethane (EDB)
15.669	729473	VV	0.057	1	10.369	Chlorobenzene
15.804	1992063	VV	0.071	1	10.935	1,1,1,2-Tetrachloroethane
17.093	361104	VV	0.069	1	9.911	Bromoform
17.562	1069981	VV	0.063	1	96.128	1,4-Dichlorobutane (surr)
17.910	1493741	VV	0.084	1	30.900	Brbenzene;123triclprop;1122tet
18.242	713786	VV	0.057	1	10.148	2-Chlorotoluene
18.430	720989	VV	0.060	1	10.131	4-Chlorotoluene
19.510	913466	PV	0.056	1	9.949	1,3-Dichlorobenzene
19.661	1021170	VV	0.060	1	10.066	1,4-Dichlorobenzene
20.286	823411	VV	0.059	1	9.916	1,2-Dichlorobenzene
21.605	97361	BB	0.079	1	9.867	1,2-Dibromo-3-chloropropane
22.970	566460	PV	0.059	1	8.591	1,2,4-Trichlorobenzene
23.254	877691	VV	0.061	1	8.567	Hexachlorobutadiene
23.771	452428	VBA	0.063	1	8.813	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\020F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 20
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 06:20 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

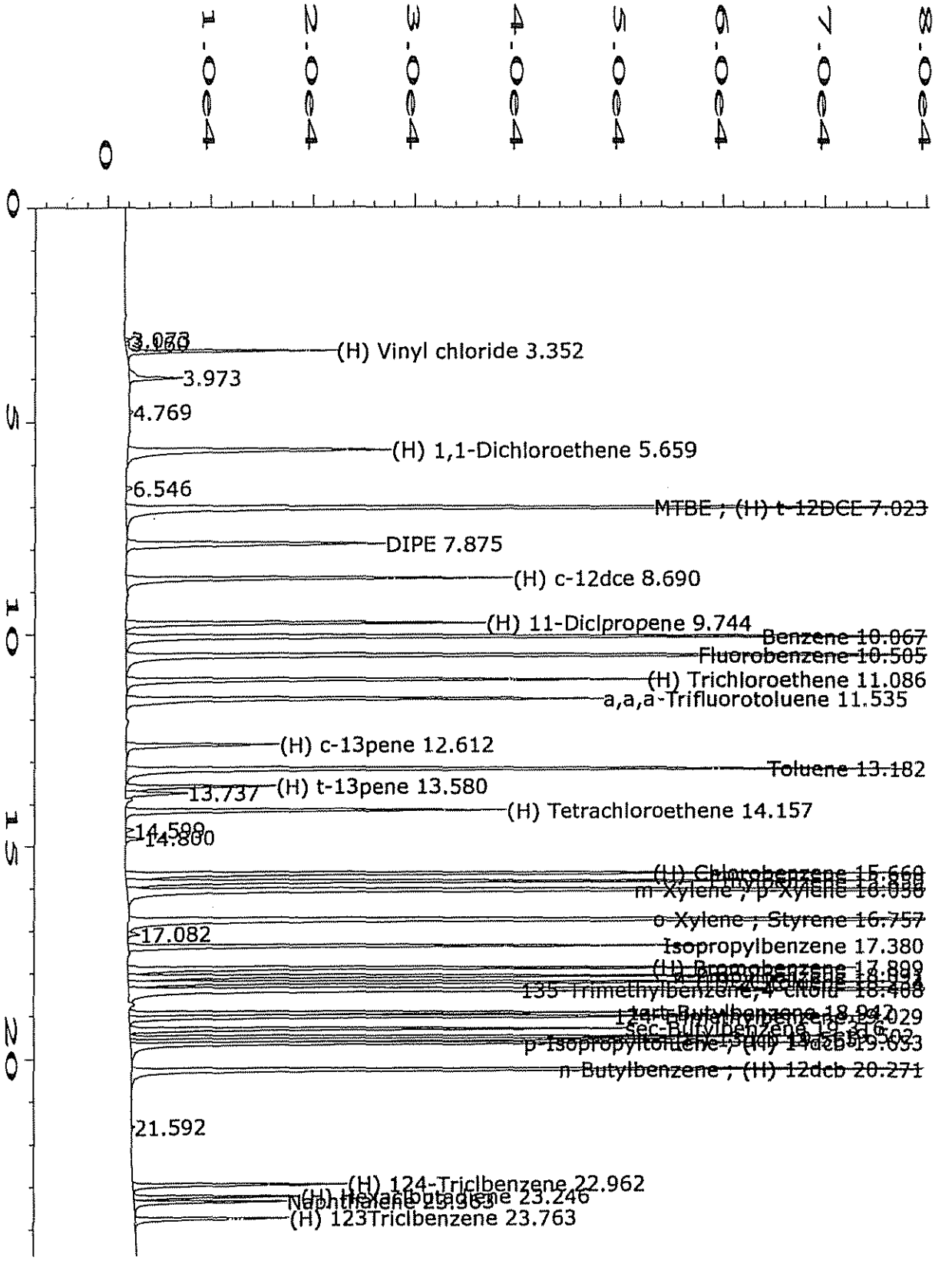
Internal Standard Report

)ata File Name	: C:\HPCHEM\1\DATA\071505\020R0101.D		
)perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 20
;ample Name	: qchk010	Injection Number	: 1
;un Time Bar Code:		Sequence Line	: 1
ıcquired on	: 15 Jul 05 06:20 PM	Instrument Method:	8021_HAL.MTH
;eport Created on:	16 Jul 05 08:00 AM	Analysis Method	: 8021_pid.MTH
;ast Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
;ultiplier	: 1	ISTD Amount	: 40

;ig. 2 in C:\HPCHEM\1\DATA\071505\020R0101.D

;et Time	Area	Type	Width	Ref#	µg/L	Name
3.352	64192	VB	0.046	1	10.168	(H) Vinyl chloride
5.659	137548	BB	0.080	1	10.136	(H) 1,1-Dichloroethene
7.023	390081	BB	0.066	1	20.401	MTBE ; (H) t-12DCE
7.875	138029	BB	0.084	1	9.873	DIPE
8.690	154599	BV	0.062	1	10.007	(H) c-12dce
9.744	142269	BV	0.062	1	10.043	(H) 11-Diclpropene
10.067	348222	VV	0.061	1	10.233	Benzene
10.505	371436	VV	0.062	1-I	40.000	Fluorobenzene
11.086	200101	VV	0.059	1	10.238	(H) Trichloroethene
11.535	210491	VB	0.070	1	105.074	a,a,a-Trifluorotoluene
12.612	61070	BB	0.060	1	10.014	(H) c-13pene
13.182	317036	BV	0.063	1	10.086	Toluene
13.580	59611	VV	0.061	1	9.493	(H) t-13pene
14.157	150310	VB	0.062	1	10.032	(H) Tetrachloroethene
15.660	298095	BV	0.057	1	9.947	(H) Chlorobenzene
15.850	280800	VV	0.059	1	10.016	Ethylbenzene
16.056	643081	VB	0.060	1	20.107	m-Xylene ; p-Xylene
16.757	529199	BV	0.071	1	20.016	o-Xylene ; Styrene
17.380	211182	PV	0.058	1	9.813	Isopropylbenzene
17.899	258446	BV	0.054	1	9.781	(H) Bromobenzene
18.091	231310	VV	0.053	1	9.627	n-Propylbenzene
18.234	261742	VV	0.053	1	9.816	(H) 2Cltoluene
18.408	602052	VV	0.061	1	19.496	135-Trimethylbenzene;4-cltolu
18.942	176564	VV	0.056	1	9.566	tert-Butylbenzene
19.029	251365	VV	0.054	1	9.362	124-Trimethylbenzene
19.316	174552	VV	0.056	1	9.227	sec-Butylbenzene
19.565	174287	VV	0.049	1	9.288	(H) 13dcb
19.653	235122	VB	0.053	1	19.079	p-Isopropyltoluene ; (H) 14dcb
20.271	305902	BV	0.058	1	18.034	n-Butylbenzene ; (H) 12dcb
22.962	70881	BV	0.051	1	8.215	(H) 124-Triclbenzene
23.246	57132	VV	0.055	1	8.022	(H) Hexaclbutadiene
23.363	52579	VV	0.053	1	8.451	Naphthalene
23.763	52360	VB	0.052	1	8.332	(H) 123Triclbenzene

;alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\020R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 20
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 06:20 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071605\015f0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Bromodichloromethane	10.6	106.5	76.0	124.0	106	42	172
	Bromoform	9.1	91.4	73.5	126.5	91	13	159
	Bromomethane	10.9	108.6	58.5	141.5	109	D	144
	Carbon tetrachloride	11.8	117.6	68.5	131.5	118	43	143
	Chlorobenzene	10.7	106.8	72.0	128.0	107	38	150
	Chloroethane	11.3	112.7	77.0	123.0	113	46	137
	Chloroform	11.3	113.0	75.0	125.0	113	49	133
	Chloromethane	11.3	113.1	59.5	140.5	113	D	193
	Dibromochloromethane	10.2	102.3	65.5	134.5	102	24	191
•	1,2-Dibromoethane	10.1	100.8	13.6	186.4	101	D	206
	1,2-Dichlorobenzene	10.2	101.7	70.0	130.0	102	D	208
	1,3-Dichlorobenzene	10.2	101.7	49.5	150.5	102	7	187
	1,4-Dichlorobenzene	10.3	102.8	69.5	130.5	103	42	143
	1,1-Dichloroethane	11.4	114.4	84.0	116.0	114	47	132
	1,2-Dichloroethane	10.6	106.1	71.5	128.5	106	51	147
	1,1-Dichloroethene	11.5	115.3	63.0	137.0	115	28	167
•	cis-1,2-Dichloroethene	11.2	111.8	34.4	180.6	112	19	181
	trans-1,2-Dichloroethene	11.5	115.5	64.0	136.0	115	38	155
	1,2-Dichloropropane	11.1	111.2	74.0	126.0	111	44	156
	cis-1,3-Dichloropropene	10.5	105.3	64.0	136.0	105	22	178
	trans-1,3-Dichloropropene	9.7	97.5	64.0	136.0	97	22	178
	Methylene Chloride	11.1	110.6	77.5	122.5	111	25	162
	1,1,2,2-Tertrachloroethane	9.8	97.8	49.0	151.0	98	8	184
	Tetrachloroethane	11.2	112.5	70.0	130.0	112	26	162
	1,1,1-Trichloroethane	11.6	115.8	71.0	129.0	116	41	138
	1,1,2-Trichloroethane	10.3	102.6	78.5	121.5	103	39	136
	Trichloroethene	11.6	116.1	77.0	123.0	116	35	146
	Trichlorofluromethane	11.5	114.8	66.5	133.5	115	21	156
	Vinyl Chloride	11.2	112.3	68.5	131.5	112	28	163

Method: 602 **Spike[ppb] : 10**
Instrument : gc3
Filename : 071605\015r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.3	103.4	77.0	123.0	103	39	150
	Chlorobenzene	9.9	99.3	80.5	119.5	99	55	135
	1,2-Dichlorobenzene	9.5	94.8	68.0	132.0	95	37	154
	1,3-Dichlorobenzene	10.0	100.0	72.5	127.5	100	50	141
	1,4-Dichlorobenzene	9.5	94.8	69.5	130.5	95	42	143
•	Diisopropyl ether	9.7	97.5	43.1	156.9	97	30	170
	Ethylbenzene	10.3	102.5	63.0	137.0	103	32	160
•	MTBE	10.3	102.6	46.8	153.2	103	35	165
	Toluene	10.2	102.2	77.5	127.0	102	46	148
•	m,p-Xylene	20.6	102.8	11.2	188.8	103	D	239
•	o-Xylene	10.1	100.7	47.6	152.4	101	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by:_____

Internal Standard Report

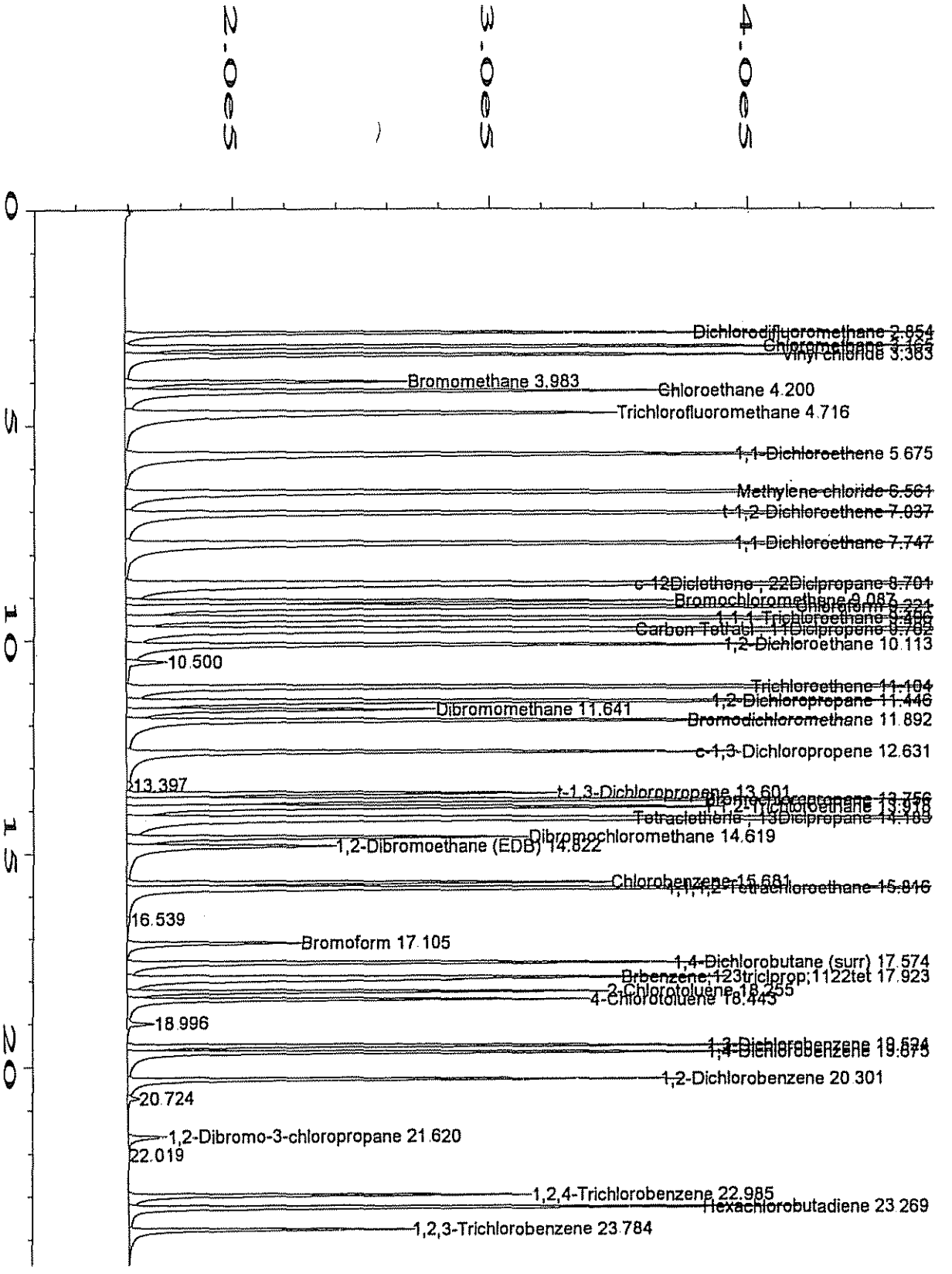
Data File Name : C:\HPCHEM\1\DATA\071605\015F0101.D
Operator : MJC
Instrument : GC3
Sample Name : qchk010
Run Time Bar Code:
Acquired on : 16 Jul 05 03:43 PM
Report Created on: 16 Jul 05 04:07 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\015F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.854	971785	BV	0.044	1	10.371	Dichlorodifluoromethane
3.165	1245288	VV	0.057	1	11.312	Chloromethane
3.363	1107187	VV	0.057	1	11.225	Vinyl chloride
3.983	488764	VV	0.067	1	10.864	Bromomethane
4.200	1124053	VV	0.079	1	11.270	Chloroethane
4.716	1497320	VV	0.114	1	11.476	Trichlorofluoromethane
5.675	1816460	VV	0.093	1	11.530	1,1-Dichloroethene
6.561	1832569	VV	0.075	1	11.057	Methylene chloride
7.037	1925457	VV	0.072	1	11.545	t-1,2-Dichloroethene
7.747	1962744	VV	0.086	1	11.440	1,1-Dichloroethane
8.701	3114962	VV	0.077	1	22.368	c-12Diclethene ; 22Diclpropane
9.087	897536	VV	0.063	1	10.583	Bromochloromethane
9.221	2323671	VV	0.073	1	11.299	Chloroform
9.496	2217098	VV	0.080	1	11.584	1,1,1-Trichloroethane
9.762	3730120	VV	0.076	1	23.515	Carbon Tetracl ; 11Diclpropene
10.113	1247109	VV	0.071	1	10.608	1,2-Dichloroethane
11.104	2076470	VV	0.066	1	11.614	Trichloroethene
11.446	1552974	VV	0.072	1	11.120	1,2-Dichloropropane
11.641	571027	VV	0.070	1	10.166	Dibromomethane
11.892	1351345	VV	0.076	1	10.648	Bromodichloromethane
12.631	1153057	VV	0.073	1	10.529	c-1,3-Dichloropropene
13.601	695680	VV	0.064	1	9.749	t-1,3-Dichloropropene
13.756	1643322	VV	0.074	1-I	40.000	Bromochloropropane
13.918	1172134	VV	0.075	1	10.258	1,1,2-Trichloroethane
14.183	3050872	VV	0.082	1	22.496	Tetraclethene ; 13Diclpropane
14.619	728122	VV	0.069	1	10.230	Dibromochloromethane
14.822	545053	VV	0.094	1	10.075	1,2-Dibromoethane (EDB)
15.681	728298	VV	0.060	1	10.680	Chlorobenzene
15.816	1946574	VV	0.069	1	11.023	1,1,1,2-Tetrachloroethane
17.105	322451	VV	0.071	1	9.138	Bromoform
17.574	972472	VV	0.063	1	90.071	1,4-Dichlorobutane (surr)
17.923	1380896	VV	0.086	1	29.332	Brbenzene;123triclprop;1122tet
18.255	716678	VV	0.058	1	10.530	2-Chlorotoluene
18.443	719436	VV	0.059	1	10.446	4-Chlorotoluene
19.524	905021	PV	0.053	1	10.171	1,3-Dichlorobenzene
19.675	1009955	VV	0.061	1	10.279	1,4-Dichlorobenzene
20.301	817971	VV	0.059	1	10.171	1,2-Dichlorobenzene
21.620	81715	BV	0.078	1	8.569	1,2-Dibromo-3-chloropropane
22.985	591165	BV	0.057	1	9.272	1,2,4-Trichlorobenzene
23.269	1021444	VV	0.060	1	10.504	Hexachlorobutadiene
23.784	462983	VBA	0.062	1	9.333	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\015F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 15
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 03:43 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 04:08 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

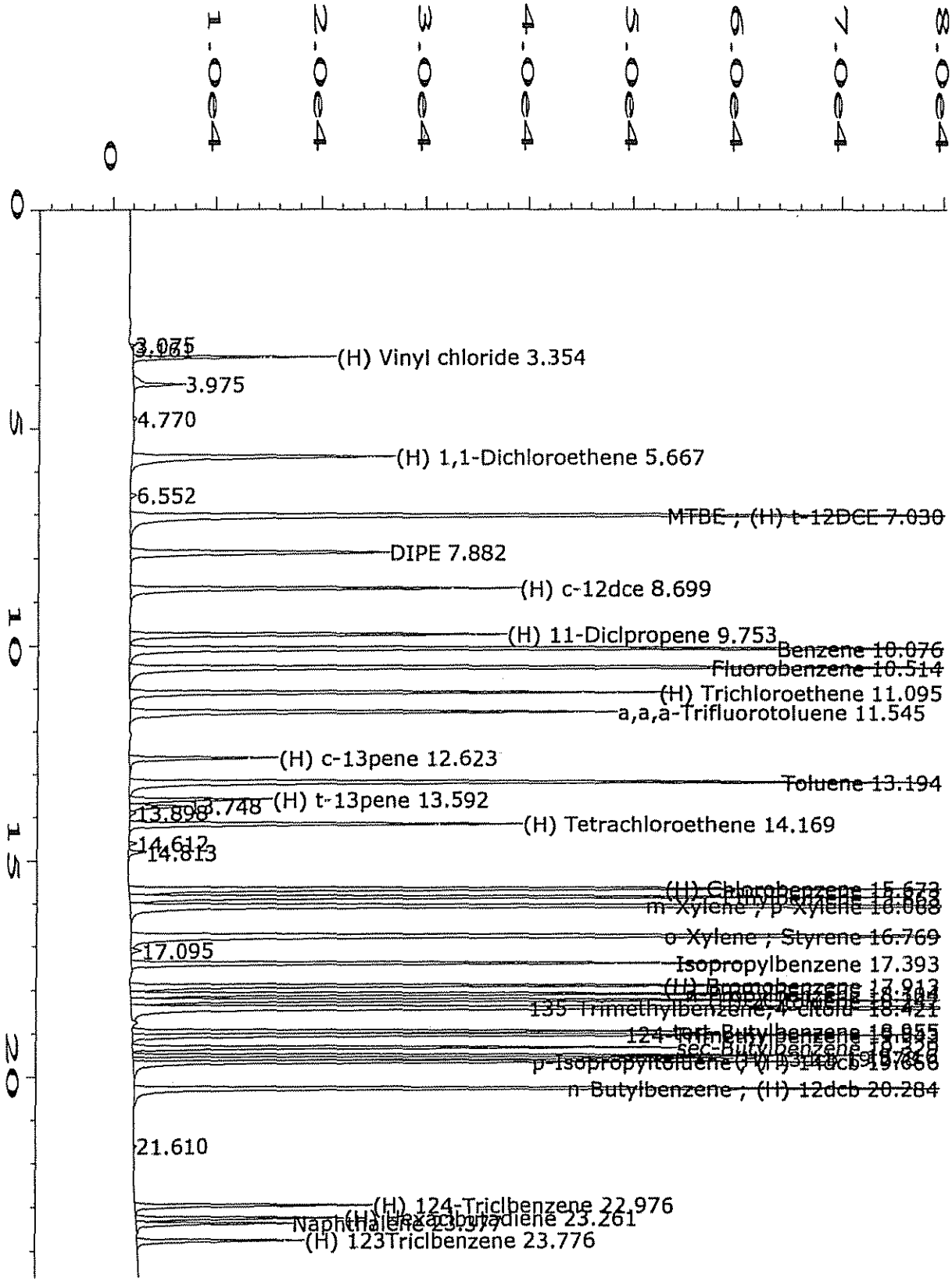
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\071605\015R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 15
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 03:43 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 04:08 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\015R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.354	61124	BB	0.047	1	9.608	(H) Vinyl chloride
5.667	141545	BB	0.082	1	10.408	(H) 1,1-Dichloroethene
7.030	393389	BB	0.066	1	20.515	MTBE ; (H) t-12DCE
7.882	136678	BB	0.083	1	9.746	DIPE
8.699	155869	BV	0.063	1	10.060	(H) c-12dce
9.753	146736	PV	0.062	1	10.332	(H) 11-Diclpropene
10.076	352935	VV	0.063	1	10.343	Benzene
10.514	372548	VV	0.063	1-I	40.000	Fluorobenzene
11.095	202828	VV	0.059	1	10.349	(H) Trichloroethene
11.545	212742	VV	0.070	1	105.881	a,a,a-Trifluorotoluene
12.623	58824	BB	0.062	1	9.621	(H) c-13pene
13.194	322162	BV	0.064	1	10.221	Toluene
13.592	55909	VV	0.061	1	8.906	(H) t-13pene
14.169	152681	BB	0.063	1	10.162	(H) Tetrachloroethene
15.673	298447	BV	0.058	1	9.929	(H) Chlorobenzene
15.863	288070	VV	0.059	1	10.251	Ethylbenzene
16.068	659247	VB	0.060	1	20.566	m-Xylene ; p-Xylene
16.769	534069	BV	0.071	1	20.143	o-Xylene ; Styrene
17.393	218860	PV	0.058	1	10.147	Isopropylbenzene
17.913	253619	BV	0.053	1	9.566	(H) Bromobenzene
18.104	242781	VV	0.054	1	10.087	n-Propylbenzene
18.247	268757	VV	0.052	1	10.057	(H) 2Cltoluene
18.421	623852	VV	0.064	1	20.169	135-Trimethylbenzene;4-cltolu
18.955	187580	VV	0.056	1	10.154	tert-Butylbenzene
19.043	264556	VV	0.053	1	9.835	124-Trimethylbenzene
19.329	188580	VV	0.056	1	9.961	sec-Butylbenzene
19.578	187471	VV	0.049	1	10.004	(H) 13dcb
19.666	234351	VB	0.052	1	18.956	p-Isopropyltoluene ; (H) 14dcb
20.284	322261	BB	0.058	1	18.964	n-Butylbenzene ; (H) 12dcb
22.976	75698	BV	0.051	1	8.745	(H) 124-Triclbenzene
23.261	69321	VV	0.054	1	9.826	(H) Hexaclbutadiene
23.377	52224	VV	0.052	1	8.372	Naphthalene
23.776	54716	VB	0.052	1	8.683	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\015R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 15
Sample Name	: qchk010	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 03:43 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 04:08 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 QC, Blanks Raw Data

Internal Standard Report

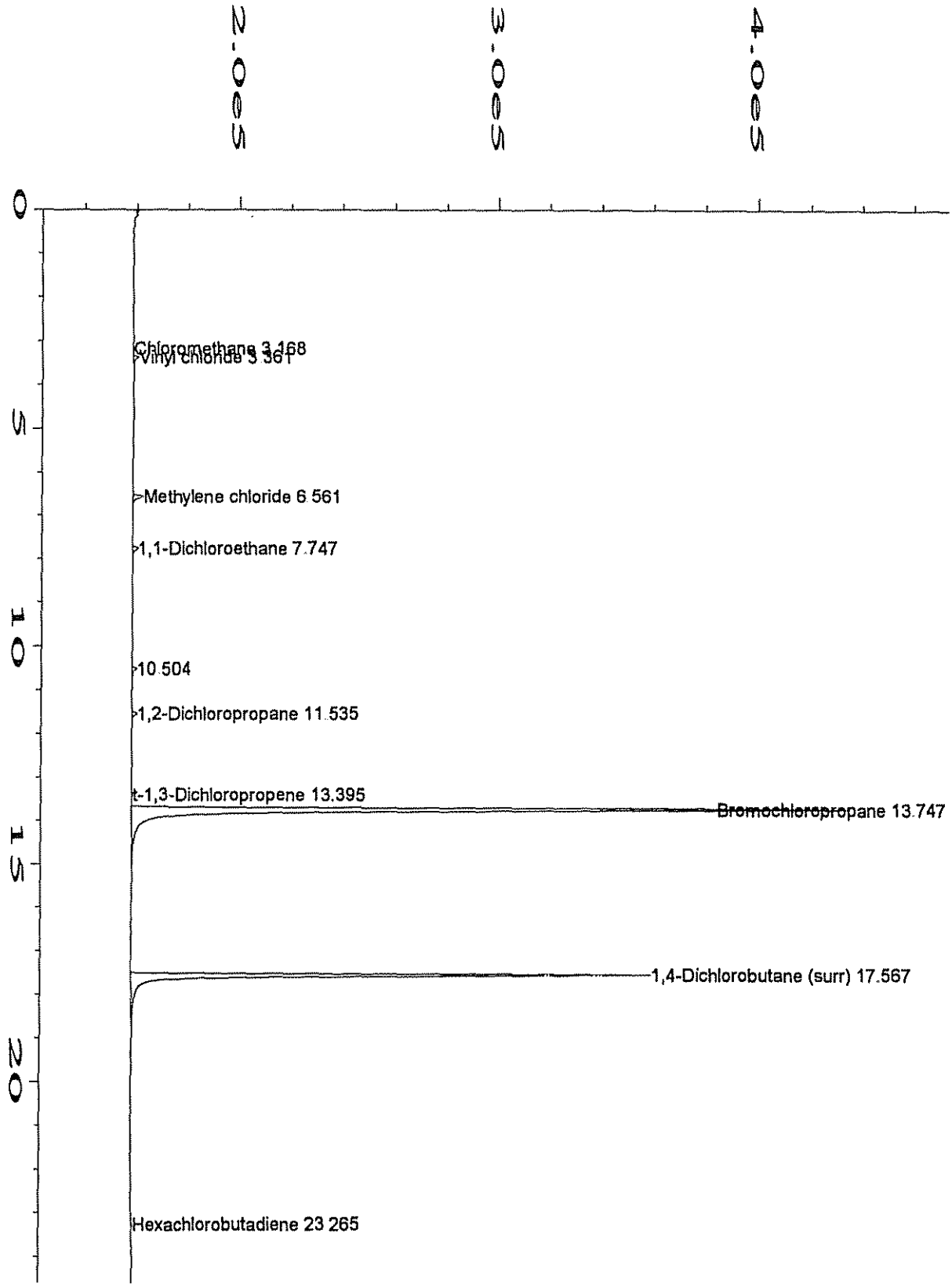
Data File Name : C:\HPCHEM\1\DATA\071505\036F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-3a x25
Run Time Bar Code:
Acquired on : 16 Jul 05 02:28 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\036F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.855	* not found *			1		Dichlorodifluoromethane
3.168	2563	BV	0.095	1	-0.808	Chloromethane
3.361	11323	VB	0.076	1	-0.912	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.680	* not found *			1		1,1-Dichloroethene
6.561	22984	BB	0.081	1	-0.651	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.747	11962	BB	0.084	1	-0.638	1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.234	* not found *			1		Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.535	10130	BB	0.080	1	-0.895	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.395	1642	BB	0.062	1	0.240	t-1,3-Dichloropropene
13.747	1511538	BB	0.080	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.197	* not found *			1		Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.567	931445	BB	0.068	1	93.793	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.451	* not found *			1		4-Chlorotoluene
19.532	* not found *			1		1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.308	* not found *			1		1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.989	* not found *			1		1,2,4-Trichlorobenzene
23.265	2016	BB	0.066	1	-1.099	Hexachlorobutadiene
23.790	* not found *			1		1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\036F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 36
Sample Name	: g161-2069-3a x25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 02:28 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 10:42 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\036R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g161-2069-3a x25
Run Time Bar Code:
Acquired on : 16 Jul 05 02:28 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

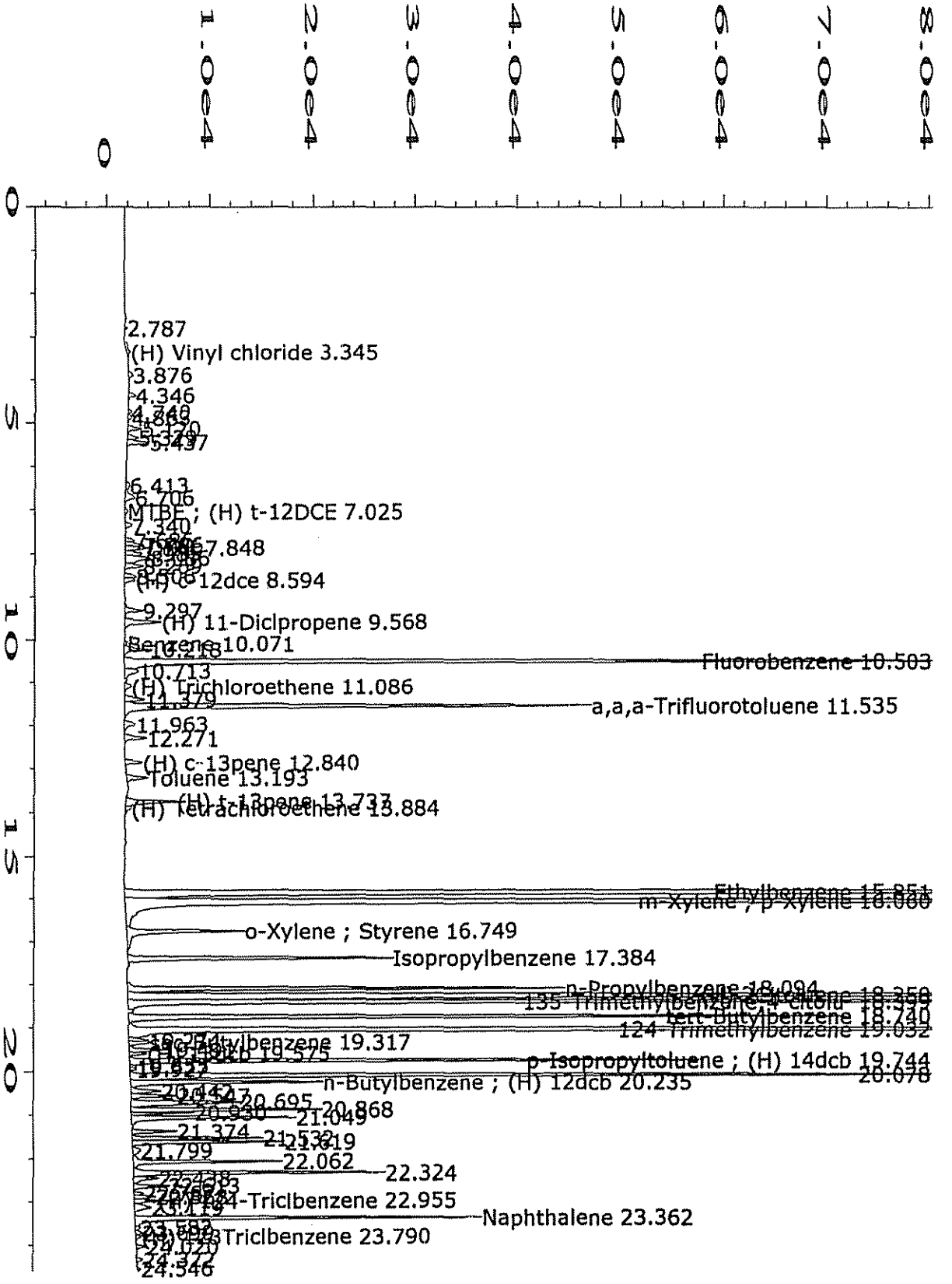
Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\036R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.345	4508	BB	0.151	1	-0.0684	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.025	1852	PB	0.075	1	-0.273	MTBE ; (H) t-12DCE
7.848	10390	VV	0.071	1	0.724	DIPE
8.594	5377	VB	0.066	1	0.236	(H) c-12dce
9.568	19379	VB	0.083	1	1.302	(H) 11-Diclpropene
10.071	1380	BV	0.067	1	-0.174	Benzene
10.503	352164	VV	0.062	1-I	40.000	Fluorobenzene
11.086	4829	VV	0.108	1	0.0716	(H) Trichloroethene
11.535	197597	VV	0.068	1	104.035	a,a,a-Trifluorotoluene
12.840	7563	BB	0.068	1	1.396	(H) c-13pene
13.193	8807	BV	0.066	1	0.133	Toluene
13.737	23437	BV	0.071	1	4.199	(H) t-13pene
13.884	3537	VB	0.083	1	0.0573	(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.851	943112	BV	0.058	1	36.191	Ethylbenzene
16.060	1451671	VV	0.060	1	48.790	m-Xylene ; p-Xylene
16.749	56753	VV	0.072	1	1.890	o-Xylene ; Styrene
17.384	97337	PV	0.058	1	4.655	Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.094	151107	BV	0.054	1	6.550	n-Propylbenzene
18.250	548124	VV	0.071	1	22.103	(H) 2Cltoluene
18.399	412338	VV	0.055	1	13.859	135-Trimethylbenzene;4-cltolu
18.740	247702	VV	0.055	1	14.326	tert-Butylbenzene
19.032	830044	VV	0.053	1	33.191	124-Trimethylbenzene
19.317	8833	VV	0.061	1	0.221	sec-Butylbenzene
19.575	6274	VV	0.055	1	-0.216	(H) 13dcb
19.744	183835	VV	0.052	1	15.643	p-Isopropyltoluene ; (H) 14dcb
20.235	75471	VV	0.061	1	4.362	n-Butylbenzene ; (H) 12dcb
22.955	9838	VV	0.063	1	1.226	(H) 124-Triclbenzene
23.272	* not found *			1		(H) Hexaclbutadiene
23.362	113546	PV	0.051	1	18.769	Naphthalene
23.790	2217	VV	0.055	1	0.329	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\036R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 36
Sample Name	: g161-2069-3a x25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 02:28 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 10:42 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

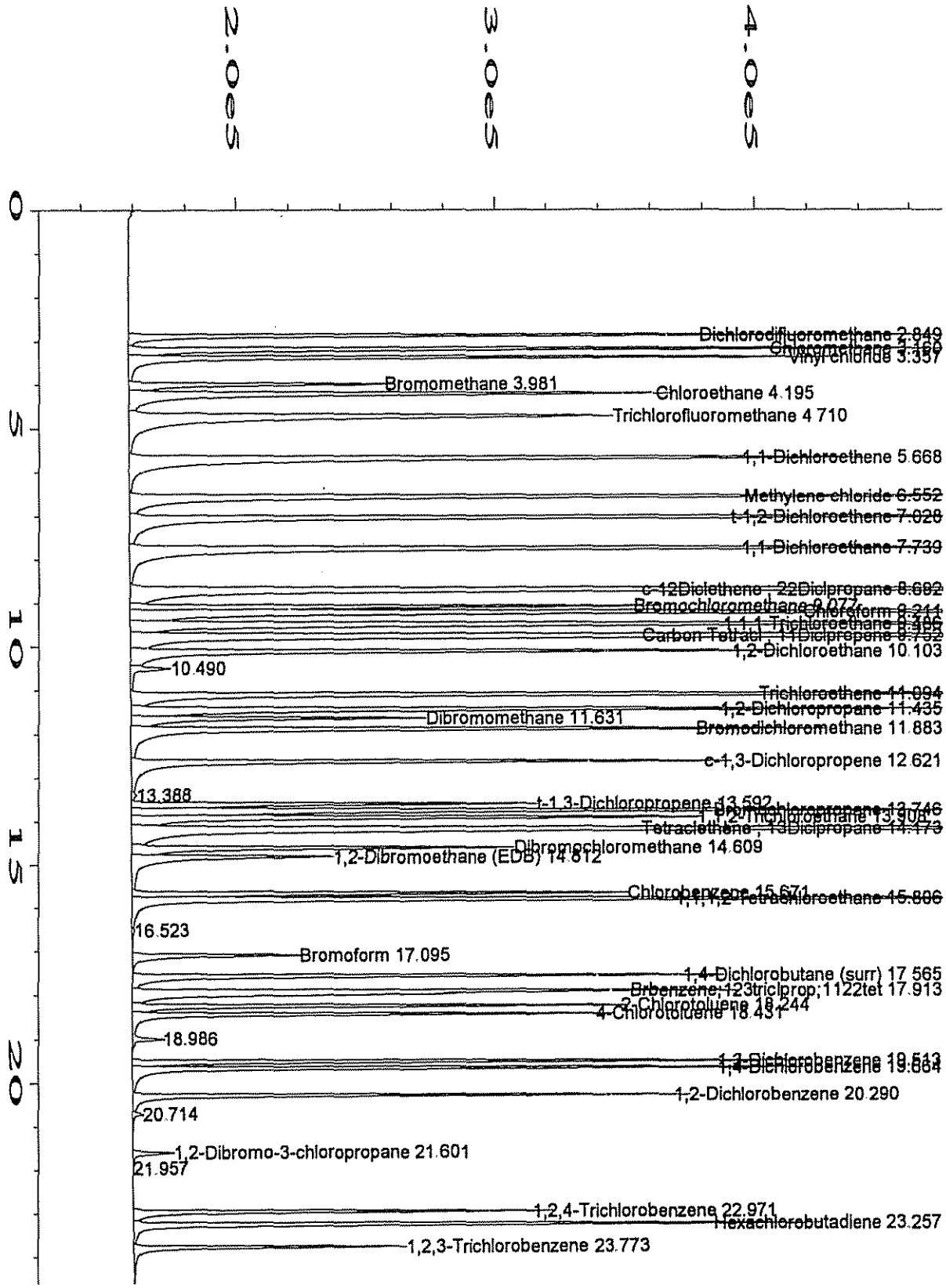
Data File Name : C:\HPCHEM\1\DATA\071505\037F0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140926 x25 ms
Run Time Bar Code:
Acquired on : 16 Jul 05 02:58 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\037F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.849	981531	BV	0.047	1	10.801	Dichlorodifluoromethane
3.160	1256460	VV	0.058	1	11.768	Chloromethane
3.357	1127896	VV	0.063	1	11.809	Vinyl chloride
3.981	449872	VV	0.067	1	10.262	Bromomethane
4.195	1158388	VV	0.081	1	11.988	Chloroethane
4.710	1529482	VV	0.112	1	12.092	Trichlorofluoromethane
5.668	1878004	VV	0.094	1	12.300	1,1-Dichloroethene
6.552	1959755	VV	0.078	1	12.240	Methylene chloride
7.028	1965610	VV	0.068	1	12.156	t-1,2-Dichloroethene
7.739	2013533	VV	0.085	1	12.107	1,1-Dichloroethane
8.692	3048516	VV	0.077	1	22.521	c-12Diclethene ; 22Diclpropane
9.077	864278	VV	0.066	1	10.474	Bromochloromethane
9.211	2307429	VV	0.077	1	11.556	Chloroform
9.486	2180583	VV	0.082	1	11.725	1,1,1-Trichloroethane
9.752	3684160	VV	0.078	1	23.916	Carbon Tetracl ; 11Diclpropene
10.103	1203208	VV	0.073	1	10.518	1,2-Dichloroethane
11.094	2051892	VV	0.067	1	11.813	Trichloroethene
11.435	1519235	VV	0.071	1	11.192	1,2-Dichloropropane
11.631	554425	VV	0.071	1	10.150	Dibromomethane
11.883	1315829	VV	0.076	1	10.662	Bromodichloromethane
12.621	1109040	VV	0.071	1	10.409	c-1,3-Dichloropropene
13.592	646728	VV	0.061	1	9.329	t-1,3-Dichloropropene
13.746	1598126	VV	0.076	1-I	40.000	Bromochloropropane
13.908	1100931	VV	0.074	1	9.842	1,1,2-Trichloroethane
14.173	2958810	VV	0.084	1	22.428	Tetraclethene ; 13Diclpropane
14.609	690882	VV	0.068	1	9.968	Dibromochloromethane
14.812	516333	VV	0.092	1	9.796	1,2-Dibromoethane (EDB)
15.671	731807	VV	0.060	1	11.043	Chlorobenzene
15.806	1887168	VV	0.071	1	10.986	1,1,1,2-Tetrachloroethane
17.095	311186	BV	0.072	1	9.070	Bromoform
17.565	956453	VV	0.063	1	91.093	1,4-Dichlorobutane (surr)
17.913	1359148	VV	0.080	1	29.717	Brbenzene;123triclprop;1122tet
18.244	731057	VV	0.059	1	11.081	2-Chlorotoluene
18.431	729963	VV	0.059	1	10.935	4-Chlorotoluene
19.513	915360	PV	0.056	1	10.596	1,3-Dichlorobenzene
19.664	1003953	VV	0.058	1	10.524	1,4-Dichlorobenzene
20.290	800095	VV	0.058	1	10.233	1,2-Dichlorobenzene
21.601	73667	BV	0.068	1	7.961	1,2-Dibromo-3-chloropropane
22.971	580667	BV	0.055	1	9.369	1,2,4-Trichlorobenzene
23.257	1019954	VV	0.060	1	10.815	Hexachlorobutadiene
23.773	411054	VBA	0.058	1	8.464	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\037F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 37
Sample Name	: 140926 x25 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 02:58 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 10:42 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

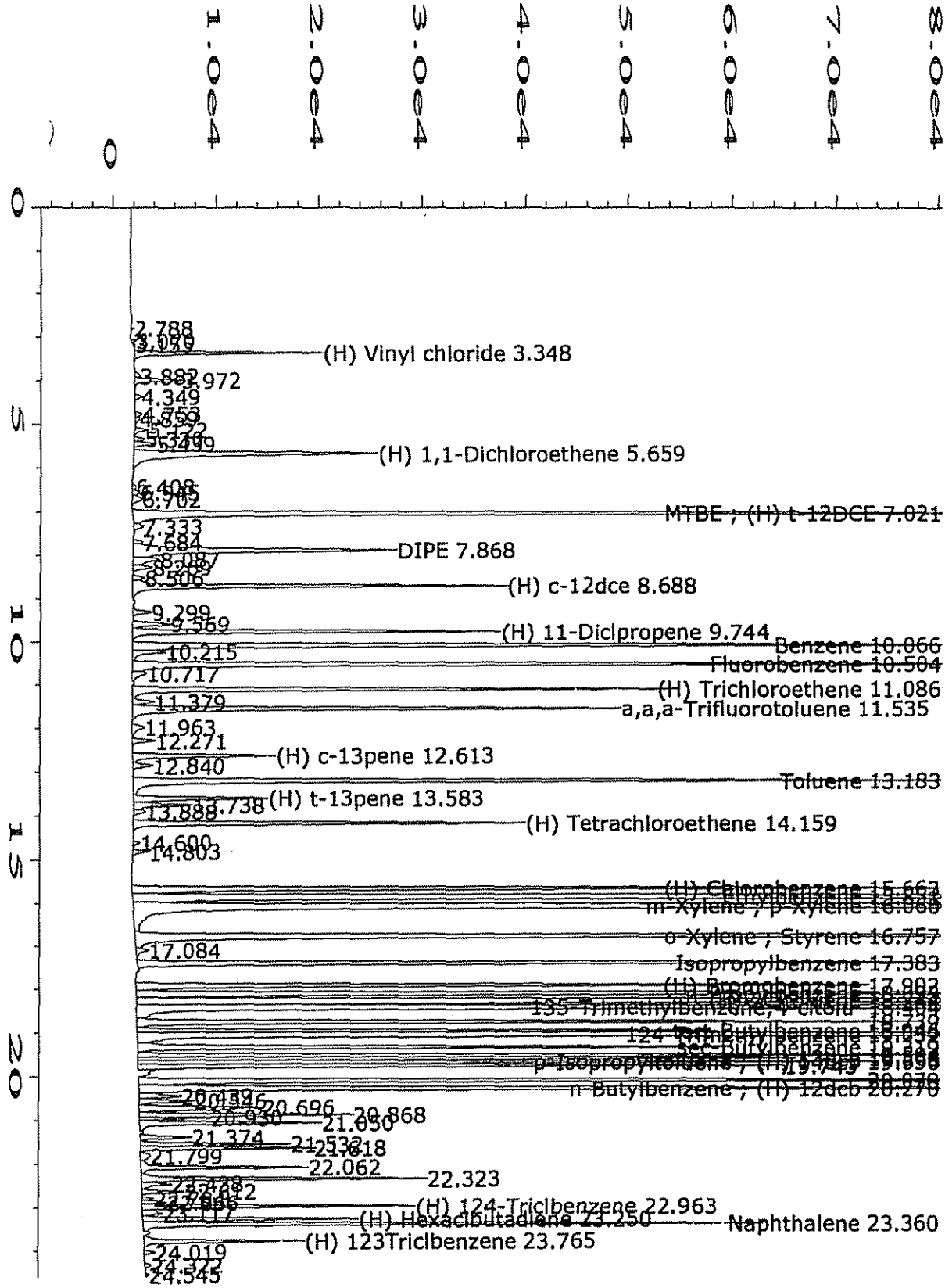
Data File Name : C:\HPCHEM\1\DATA\071505\037R0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140926 x25 ms
Run Time Bar Code:
Acquired on : 16 Jul 05 02:58 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\037R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.348	60893	BV	0.049	1	9.697	(H) Vinyl chloride
5.659	138756	PB	0.083	1	10.326	(H) 1,1-Dichloroethene
7.021	378727	PV	0.066	1	19.983	MTBE ; (H) t-12DCE
7.868	158120	VV	0.092	1	11.425	DIPE
8.688	157540	VV	0.064	1	10.296	(H) c-12dce
9.744	145245	VV	0.063	1	10.353	(H) 11-Diclpropene
10.066	344823	VV	0.062	1	10.227	Benzene
10.504	368028	VV	0.062	1-I	40.000	Fluorobenzene
11.086	203026	VV	0.060	1	10.489	(H) Trichloroethene
11.535	214516	VV	0.069	1	108.075	a,a,a-Trifluorotoluene
12.613	55000	BV	0.061	1	9.112	(H) c-13pene
13.183	334738	BV	0.065	1	10.759	Toluene
13.583	53974	VV	0.062	1	8.713	(H) t-13pene
14.159	151853	PV	0.062	1	10.233	(H) Tetrachloroethene
15.663	299739	BV	0.057	1	10.096	(H) Chlorobenzene
15.851	1294081	VV	0.058	1	47.605	Ethylbenzene
16.060	2158583	VV	0.059	1	69.702	m-Xylene ; p-Xylene
16.757	602566	VV	0.072	1	23.065	o-Xylene ; Styrene
17.383	329534	PV	0.058	1	15.584	Isopropylbenzene
17.902	256525	BV	0.055	1	9.798	(H) Bromobenzene
18.093	415813	VV	0.054	1	17.684	n-Propylbenzene
18.244	859190	VV	0.066	1	33.327	(H) 2Cltoluene
18.404	1079330	VV	0.059	1	35.931	135-Trimethylbenzene;4-cltolu
18.946	186887	VV	0.051	1	10.244	tert-Butylbenzene
19.032	1179115	VV	0.053	1	45.202	124-Trimethylbenzene
19.319	217570	VV	0.058	1	11.682	sec-Butylbenzene
19.568	206567	VV	0.049	1	11.226	(H) 13dcb
19.656	227932	VV	0.049	1	18.656	p-Isopropyltoluene ; (H) 14dcb
20.270	420585	VV	0.063	1	25.198	n-Butylbenzene ; (H) 12dcb
22.963	88478	VV	0.051	1	10.342	(H) 124-Triclbenzene
23.250	72547	VV	0.053	1	10.445	(H) Hexaclbutadiene
23.360	190877	VV	0.048	1	29.964	Naphthalene
23.765	56044	VV	0.054	1	9.004	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\037R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 37
Sample Name	: 140926 x25 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 02:58 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 10:42 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

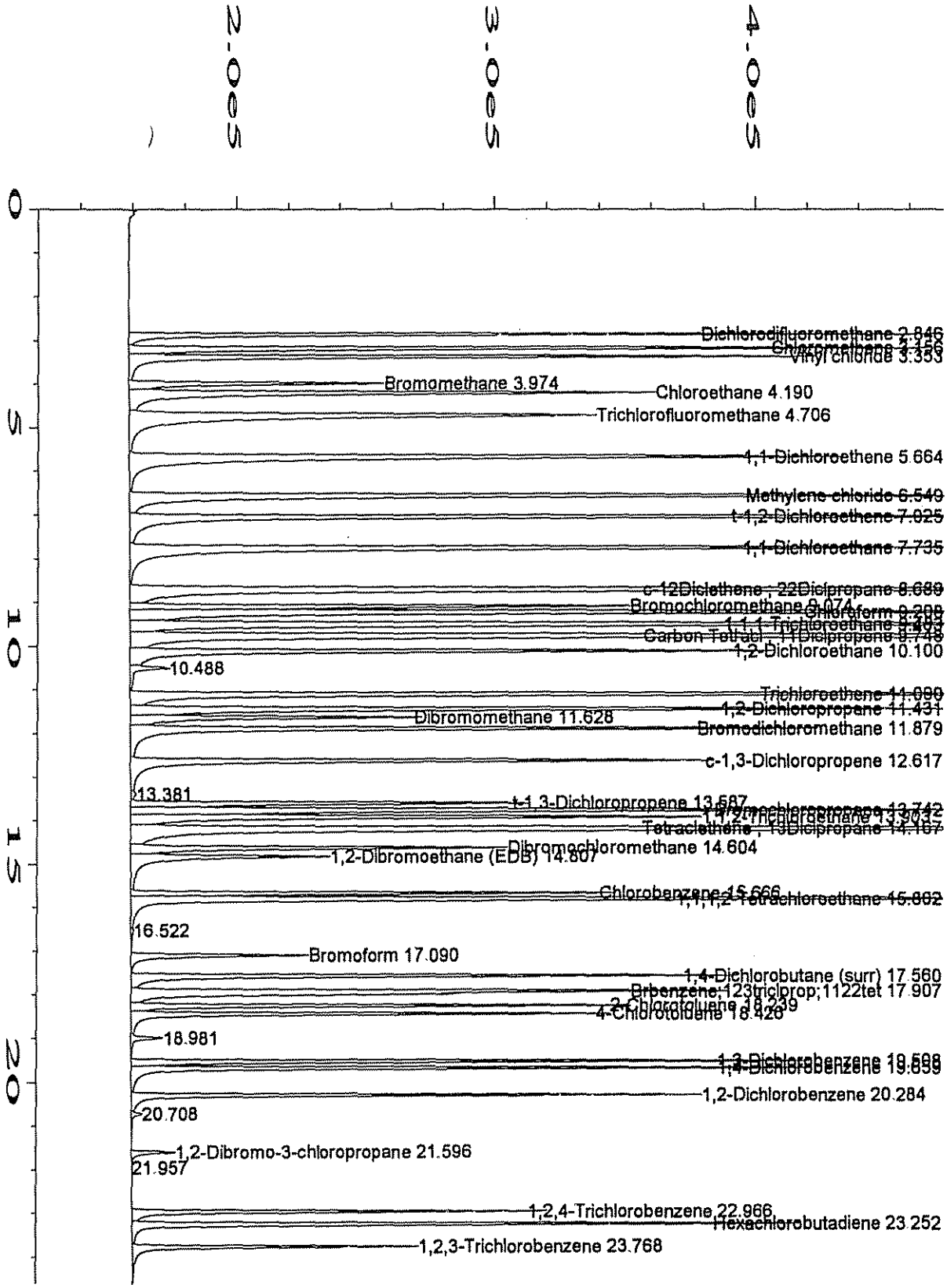
Data File Name : C:\HPCHEM\1\DATA\071505\038F0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140926 x25 msd
Run Time Bar Code:
Acquired on : 16 Jul 05 03:29 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071505\038F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.846	966899	BV	0.046	1	10.809	Dichlorodifluoromethane
3.156	1226649	VV	0.059	1	11.664	Chloromethane
3.353	1089772	VV	0.061	1	11.571	Vinyl chloride
3.974	441966	VV	0.068	1	10.241	Bromomethane
4.190	1118420	VV	0.080	1	11.743	Chloroethane
4.706	1479233	VV	0.118	1	11.867	Trichlorofluoromethane
5.664	1800469	VV	0.096	1	11.962	1,1-Dichloroethene
6.549	1808808	VV	0.079	1	11.426	Methylene chloride
7.025	1875534	VV	0.073	1	11.760	t-1,2-Dichloroethene
7.735	1918822	VV	0.085	1	11.698	1,1-Dichloroethane
8.689	2915369	VV	0.079	1	21.828	c-12Diclethene ; 22Diclpropane
9.074	839521	VV	0.066	1	10.330	Bromochloromethane
9.208	2228026	VV	0.072	1	11.319	Chloroform
9.483	2128800	VV	0.081	1	11.621	1,1,1-Trichloroethane
9.748	3593809	VV	0.075	1	23.679	Carbon Tetracl ; 11Diclpropene
10.100	1179296	VV	0.072	1	10.469	1,2-Dichloroethane
11.090	2006422	VV	0.068	1	11.729	Trichloroethene
11.431	1496980	VV	0.071	1	11.204	1,2-Dichloropropane
11.628	543931	VV	0.072	1	10.114	Dibromomethane
11.879	1300851	VV	0.073	1	10.710	Bromodichloromethane
12.617	1087048	VV	0.073	1	10.362	c-1,3-Dichloropropene
13.587	639071	VV	0.065	1	9.364	t-1,3-Dichloropropene
13.742	1573187	VV	0.076	1-I	40.000	Bromochloropropane
13.903	1122290	VV	0.076	1	10.260	1,1,2-Trichloroethane
14.167	2956581	VV	0.084	1	22.802	Tetraclethene ; 13Diclpropane
14.604	690203	VV	0.071	1	10.124	Dibromochloromethane
14.807	511525	VV	0.093	1	9.863	1,2-Dibromoethane (EDB)
15.666	715060	VV	0.061	1	10.959	Chlorobenzene
15.802	1880627	VV	0.069	1	11.133	1,1,1,2-Tetrachloroethane
17.090	310550	BV	0.067	1	9.192	Bromoform
17.560	953194	VV	0.061	1	92.222	1,4-Dichlorobutane (surr)
17.907	1342227	VV	0.082	1	29.820	Brbenzene;123triclprop;1122tet
18.239	723978	VV	0.060	1	11.152	2-Chlorotoluene
18.426	721818	VV	0.061	1	10.988	4-Chlorotoluene
19.508	909978	PV	0.055	1	10.704	1,3-Dichlorobenzene
19.659	1000104	VV	0.060	1	10.660	1,4-Dichlorobenzene
20.284	803031	VV	0.056	1	10.446	1,2-Dichlorobenzene
21.596	76397	BV	0.066	1	8.374	1,2-Dibromo-3-chloropropane
22.966	575164	BV	0.057	1	9.429	1,2,4-Trichlorobenzene
23.252	986962	VV	0.058	1	10.612	Hexachlorobutadiene
23.768	430433	VBA	0.060	1	9.045	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\038F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 38
Sample Name	: 140926 x25 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 03:29 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 10:42 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

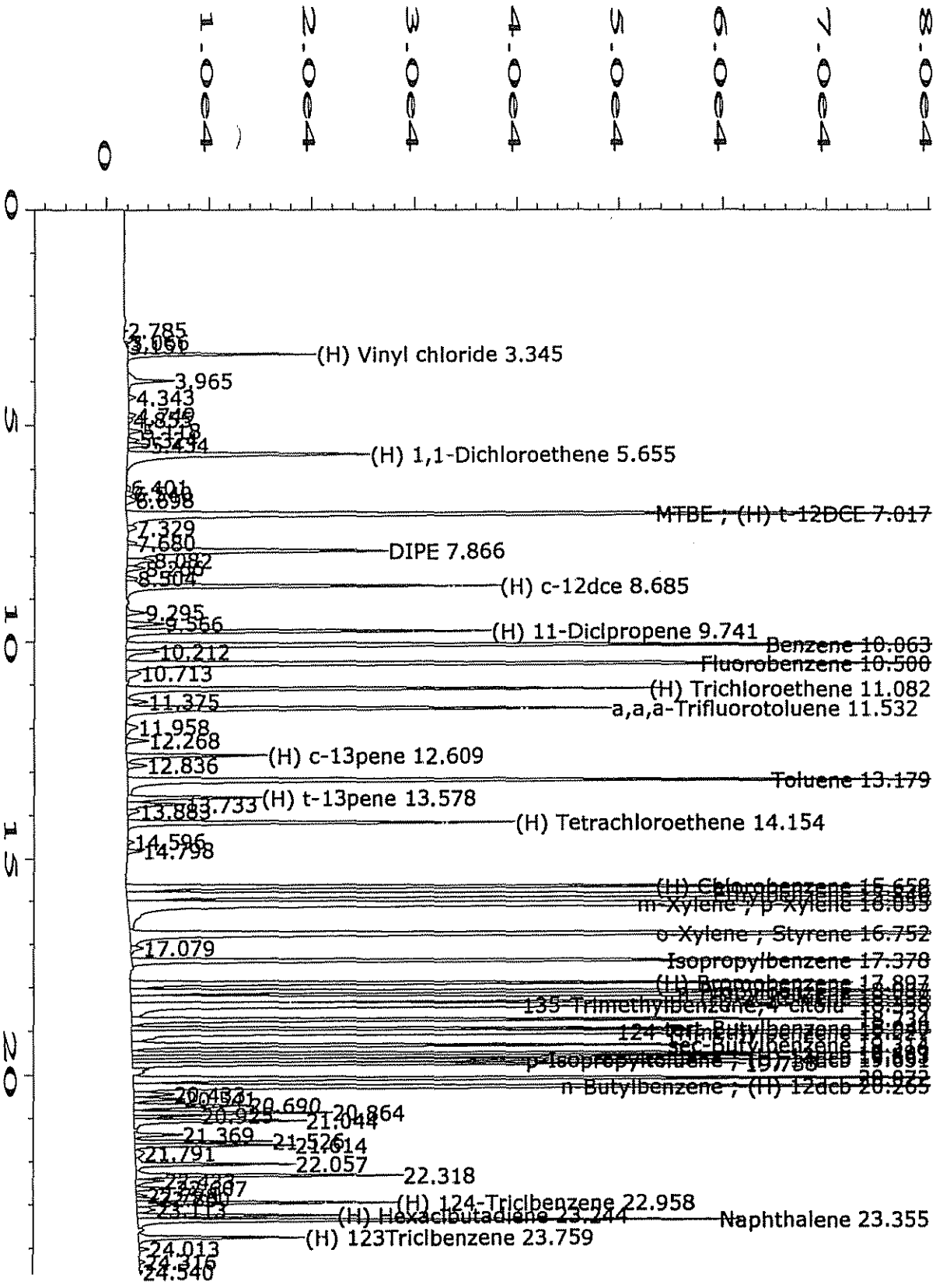
Data File Name : C:\HPCHEM\1\DATA\071505\038R0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140926 x25 msd
Run Time Bar Code:
Acquired on : 16 Jul 05 03:29 AM
Report Created on: 16 Jul 05 10:42 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\038R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.345	61533	BB	0.050	1	9.789	(H) Vinyl chloride
5.655	139086	VB	0.086	1	10.331	(H) 1,1-Dichloroethene
7.017	379585	PV	0.066	1	19.992	MTBE ; (H) t-12DCE
7.866	156958	VV	0.093	1	11.319	DIPE
8.685	157140	VV	0.065	1	10.250	(H) c-12dce
9.741	144721	VV	0.063	1	10.295	(H) 11-Diclpropene
10.063	345038	VV	0.062	1	10.214	Benzene
10.500	368708	VV	0.062	1-I	40.000	Fluorobenzene
11.082	202664	VV	0.060	1	10.450	(H) Trichloroethene
11.532	214283	VV	0.070	1	107.758	a,a,a-Trifluorotoluene
12.609	54668	PV	0.061	1	9.041	(H) c-13pene
13.179	333253	BV	0.064	1	10.691	Toluene
13.578	53723	VV	0.062	1	8.660	(H) t-13pene
14.154	150263	VV	0.062	1	10.104	(H) Tetrachloroethene
15.658	296984	BV	0.057	1	9.983	(H) Chlorobenzene
15.846	1276193	VV	0.058	1	46.856	Ethylbenzene
16.055	2125758	VV	0.060	1	68.504	m-Xylene ; p-Xylene
16.752	592954	VV	0.071	1	22.648	o-Xylene ; Styrene
17.378	322844	PV	0.058	1	15.235	Isopropylbenzene
17.897	252532	BV	0.054	1	9.625	(H) Bromobenzene
18.087	403734	VV	0.055	1	17.130	n-Propylbenzene
18.238	835250	VV	0.065	1	32.329	(H) 2Cltoluene
18.398	1048129	VV	0.061	1	34.803	135-Trimethylbenzene;4-cltolu
18.940	180583	VV	0.051	1	9.867	tert-Butylbenzene
19.027	1135828	VV	0.053	1	43.453	124-Trimethylbenzene
19.314	208127	VV	0.058	1	11.141	sec-Butylbenzene
19.563	197564	VV	0.049	1	10.690	(H) 13dcb
19.651	221975	VV	0.049	1	18.120	p-Isopropyltoluene ; (H) 14dcb
20.265	400175	VV	0.063	1	23.908	n-Butylbenzene ; (H) 12dcb
22.958	84557	VV	0.051	1	9.867	(H) 124-Triclbenzene
23.244	67493	VV	0.053	1	9.657	(H) Hexaclbutadiene
23.355	186751	VV	0.048	1	29.271	Naphthalene
23.759	56796	VV	0.053	1	9.109	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\038R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 38
Sample Name	: 140926 x25 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 03:29 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 10:42 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

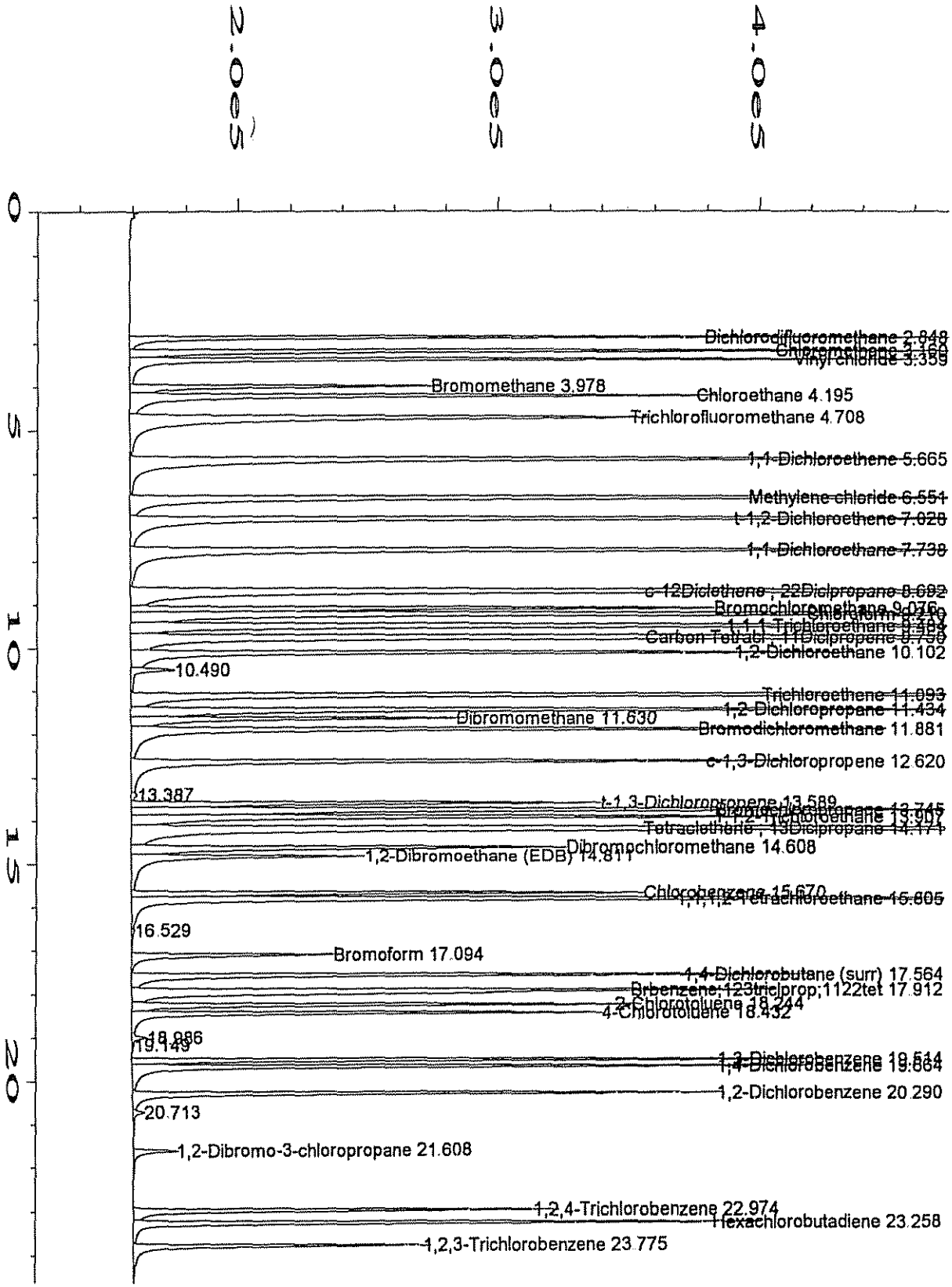
ata File Name : C:\HPCHEM\1\DATA\071505\021F0101.D
perator : MJC
nstrument : GC3
ample Name : lcs3071505b
un Time Bar Code:
cquired on : 15 Jul 05 06:50 PM
eport Created on: 16 Jul 05 08:00 AM
ast Recalib on : 16 JUL 05 07:43 AM
ultiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\071505\021F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.848	998242	BV	0.043	1	10.151	Dichlorodifluoromethane
3.160	1263355	VV	0.056	1	10.925	Chloromethane
3.359	1115991	VV	0.057	1	10.757	Vinyl chloride
3.978	500228	VV	0.065	1	10.602	Bromomethane
4.195	1150945	VV	0.076	1	10.995	Chloroethane
4.708	1514501	VV	0.110	1	11.052	Trichlorofluoromethane
5.665	1844394	VV	0.087	1	11.151	1,1-Dichloroethene
6.551	1944544	VV	0.075	1	11.207	Methylene chloride
7.028	1959506	VV	0.070	1	11.190	t-1,2-Dichloroethene
7.738	2018719	VV	0.089	1	11.215	1,1-Dichloroethane
8.692	3164128	VV	0.076	1	21.628	c-12Diclethene ; 22Diclpropane
9.076	939787	VV	0.064	1	10.574	Bromochloromethane
9.210	2404869	VV	0.076	1	11.149	Chloroform
9.484	2231625	VV	0.082	1	11.094	1,1,1-Trichloroethane
9.750	3800173	VV	0.078	1	22.802	Carbon Tetracl ; 11Diclpropene
10.102	1331689	VV	0.072	1	10.824	1,2-Dichloroethane
11.093	2121889	VV	0.068	1	11.305	Trichloroethene
11.434	1603064	VV	0.070	1	10.939	1,2-Dichloropropane
11.630	612463	VV	0.071	1	10.413	Dibromomethane
11.881	1428184	VV	0.075	1	10.744	Bromodichloromethane
12.620	1221972	VV	0.069	1	10.654	c-1,3-Dichloropropene
13.589	751409	VV	0.062	1	10.042	t-1,3-Dichloropropene
13.745	1722025	VV	0.074	1-I	40.000	Bromochloropropane
13.907	1246605	VV	0.076	1	10.440	1,1,2-Trichloroethane
14.171	3160987	VV	0.086	1	22.216	Tetraclethene ; 13Diclpropane
14.608	785058	VV	0.071	1	10.541	Dibromochloromethane
14.811	589585	VV	0.092	1	10.421	1,2-Dibromoethane (EDB)
15.670	755426	VV	0.058	1	10.569	Chlorobenzene
15.805	2015765	VV	0.073	1	10.882	1,1,1,2-Tetrachloroethane
17.094	368006	VV	0.069	1	9.937	Bromoform
17.564	1072442	VV	0.063	1	94.791	1,4-Dichlorobutane (surr)
17.912	1501296	VV	0.084	1	30.526	Brbenzene;123triclprop;1122tet
18.244	741185	VV	0.059	1	10.383	2-Chlorotoluene
18.432	743792	VV	0.062	1	10.295	4-Chlorotoluene
19.514	943834	PV	0.056	1	10.121	1,3-Dichlorobenzene
19.664	1053460	VV	0.060	1	10.228	1,4-Dichlorobenzene
20.290	855673	VV	0.057	1	10.152	1,2-Dichlorobenzene
21.608	97560	BB	0.081	1	9.731	1,2-Dibromo-3-chloropropane
22.974	610348	BV	0.055	1	9.130	1,2,4-Trichlorobenzene
23.258	949467	VV	0.062	1	9.190	Hexachlorobutadiene
23.775	478257	VBA	0.062	1	9.191	1,2,3-Trichlorobenzene

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\021F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 21
Sample Name	: lcs3071505b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 06:50 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:00 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\071505\021R0101.D
perator : MJC
nstrument : GC3
ample Name : lcs3071505b
un Time Bar Code:
cquired on : 15 Jul 05 06:50 PM
eport Created on: 16 Jul 05 08:00 AM
ast Recalib on : 16 JUL 05 07:20 AM
ultiplier : 1

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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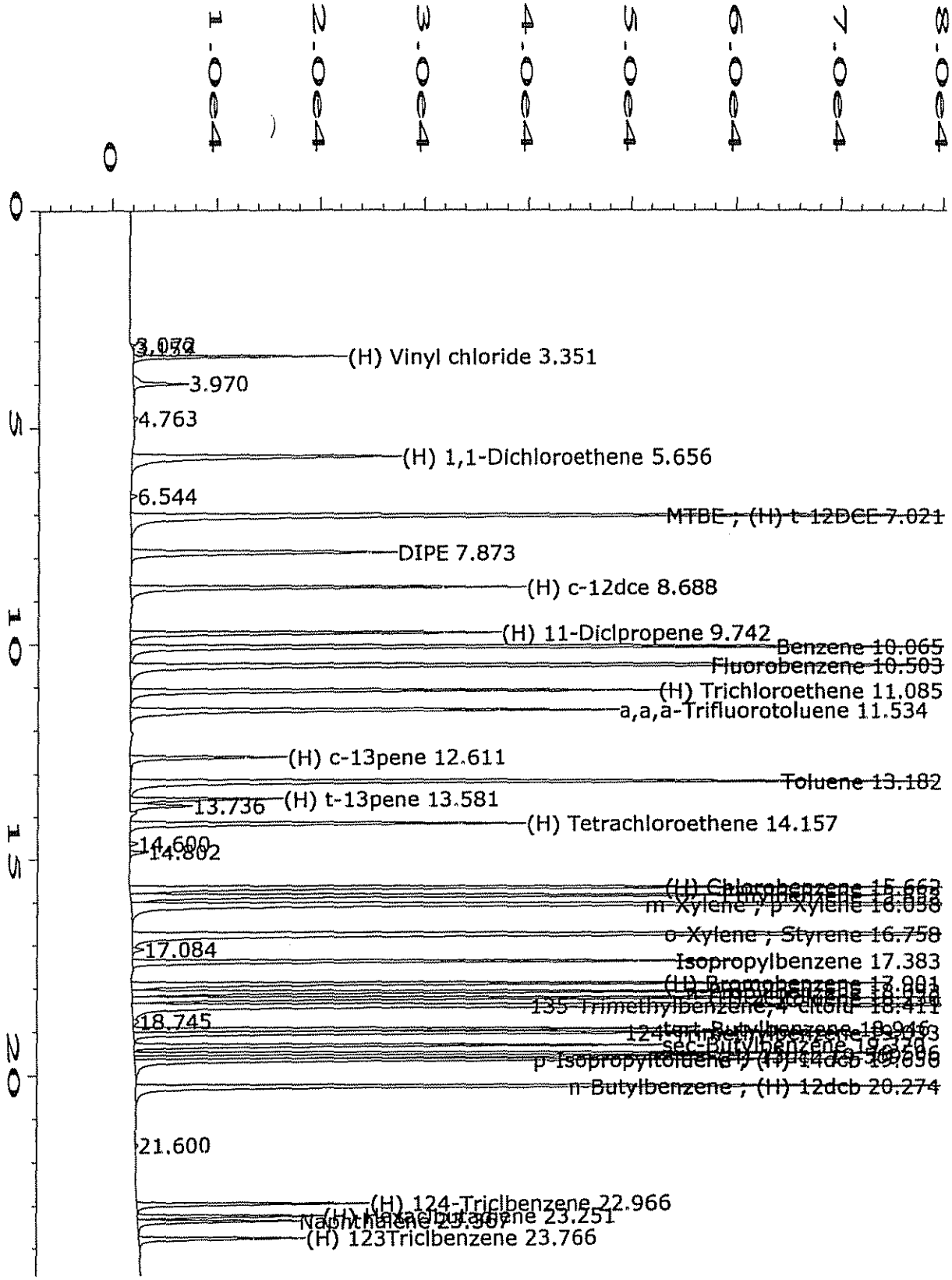
Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.351	61316	BB	0.045	1	9.558	(H) Vinyl chloride
5.656	139494	BB	0.080	1	10.169	(H) 1,1-Dichloroethene
7.021	394971	BB	0.065	1	20.434	MTBE ; (H) t-12DCE
7.873	139774	BB	0.084	1	9.889	DIPE
8.688	156691	BV	0.063	1	10.033	(H) c-12dce
9.742	144909	BV	0.061	1	10.119	(H) 11-Diclpropene
10.065	353338	VV	0.061	1	10.271	Benzene
10.503	375503	VV	0.063	1-I	40.000	Fluorobenzene
11.085	205287	VV	0.059	1	10.393	(H) Trichloroethene
11.534	212342	VB	0.068	1	104.850	a,a,a-Trifluorotoluene
12.611	61469	BB	0.062	1	9.971	(H) c-13pene
13.182	323310	BV	0.064	1	10.176	Toluene
13.581	59931	VV	0.062	1	9.443	(H) t-13pene
14.157	154308	VB	0.063	1	10.190	(H) Tetrachloroethene
15.662	304260	BV	0.058	1	10.043	(H) Chlorobenzene
15.852	286987	VV	0.059	1	10.129	Ethylbenzene
16.058	659318	VB	0.061	1	20.401	m-Xylene ; p-Xylene
16.758	542808	BV	0.071	1	20.315	o-Xylene ; Styrene
17.383	217305	BV	0.058	1	9.993	Isopropylbenzene
17.901	264010	BV	0.055	1	9.885	(H) Bromobenzene
18.093	239572	VV	0.055	1	9.869	n-Propylbenzene
18.236	270419	VV	0.053	1	10.039	(H) 2Cltoluene
18.411	623018	VV	0.063	1	19.976	135-Trimethylbenzene;4-cltolu
18.946	183168	VV	0.055	1	9.826	tert-Butylbenzene
19.033	261472	VV	0.053	1	9.640	124-Trimethylbenzene
19.320	183078	VV	0.056	1	9.584	sec-Butylbenzene
19.569	182354	VV	0.048	1	9.634	(H) 13dcb
19.656	241516	VB	0.051	1	19.394	p-Isopropyltoluene ; (H) 14dcb
20.274	320161	BB	0.058	1	18.686	n-Butylbenzene ; (H) 12dcb
22.966	74927	BV	0.050	1	8.589	(H) 124-Triclbenzene
23.251	61954	VV	0.054	1	8.647	(H) Hexaclbutadiene
23.367	54448	VB	0.052	1	8.647	Naphthalene
23.766	55021	BV	0.052	1	8.662	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\021R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 21
Sample Name	: lcs3071505b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 06:50 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	16 Jul 05 08:00 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

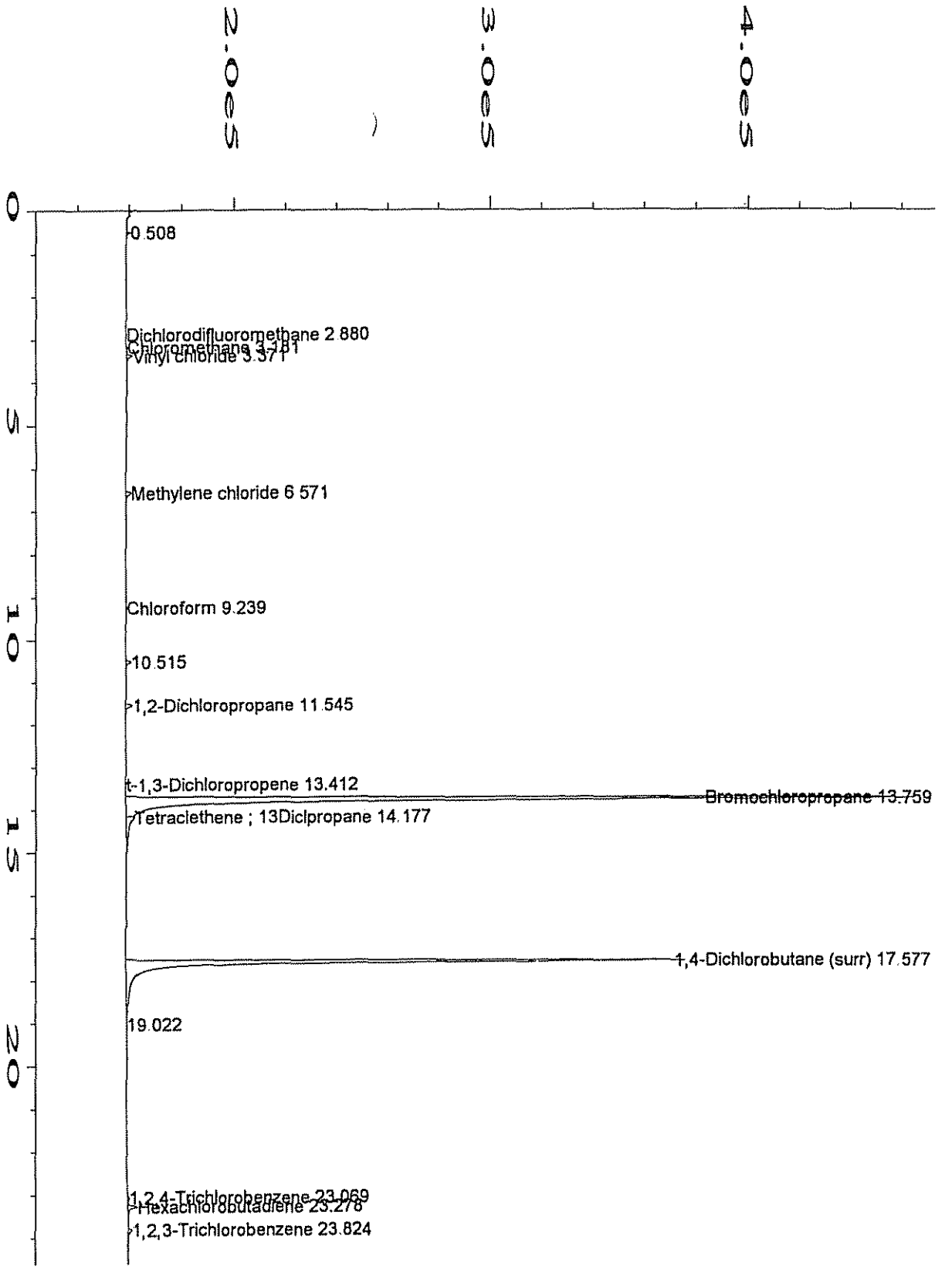
Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\071505\023F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 23
ample Name	: vblk3071505b	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 07:51 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	16 Jul 05 08:01 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

ig. 1 in C:\HPCHEM\1\DATA\071505\023F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.880	1675	BB	0.057	1	-0.756	Dichlorodifluoromethane
3.181	2884	BV	0.092	1	-0.807	Chloromethane
3.371	12597	VB	0.075	1	-0.908	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.680	* not found *			1		1,1-Dichloroethene
6.571	12081	BB	0.078	1	-0.734	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.759	* not found *			1		1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.239	2495	BB	0.076	1	-0.872	Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.545	13133	BB	0.075	1	-0.877	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.412	2160	BB	0.069	1	0.246	t-1,3-Dichloropropene
13.759	1625098	BV	0.079	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.177	52270	VB	0.188	1	-1.914	Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.577	1067695	BV	0.072	1	100.000	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.451	* not found *			1		4-Chlorotoluene
19.532	* not found *			1		1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.308	* not found *			1		1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
23.069	3423	BV	0.059	1	-0.320	1,2,4-Trichlorobenzene
23.278	19552	VB	0.076	1	-0.899	Hexachlorobutadiene
23.824	11343	BB	0.104	1	-0.406	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071505\023F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 23
Sample Name	: vblk3071505b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 07:51 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:01 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071505\023R0101.D
Operator : MJC
Instrument : GC3
Sample Name : vblk3071505b
Run Time Bar Code:
Acquired on : 15 Jul 05 07:51 PM
Report Created on: 16 Jul 05 08:01 AM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

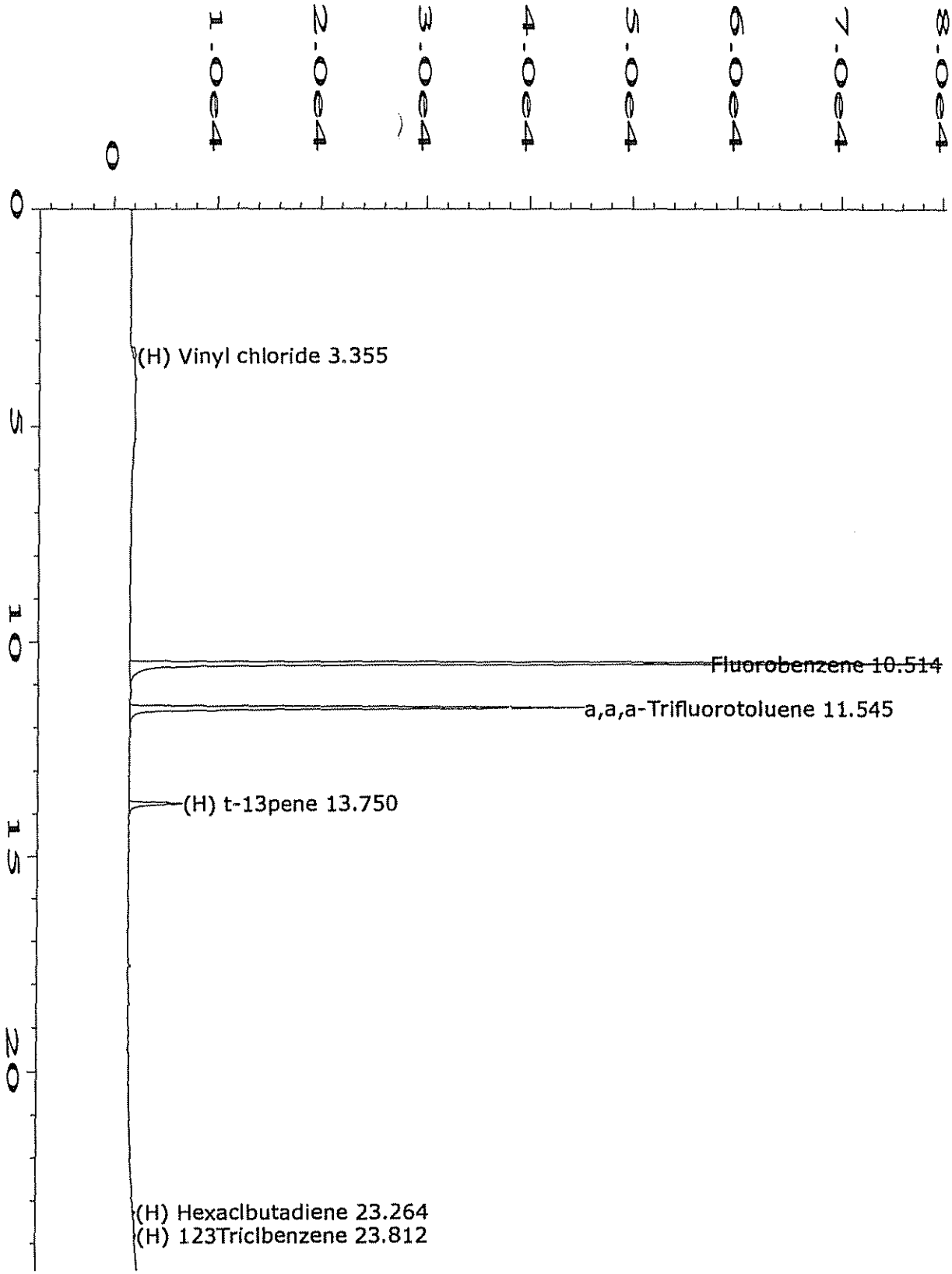
Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071505\023R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.355	4099	BV	0.137	1	-0.139	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.040	* not found *			1		MTBE ; (H) t-12DCE
7.898	* not found *			1		DIPE
8.710	* not found *			1		(H) c-12dce
9.765	* not found *			1		(H) 11-Diclpropene
10.089	* not found *			1		Benzene
10.514	350204	BV	0.061	1-I	40.000	Fluorobenzene
11.108	* not found *			1		(H) Trichloroethene
11.545	188876	BV	0.066	1	100.00	a,a,a-Trifluorotoluene
12.634	* not found *			1		(H) c-13pene
13.207	* not found *			1		Toluene
13.750	24313	BB	0.071	1	4.361	(H) t-13pene
14.184	* not found *			1		(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.875	* not found *			1		Ethylbenzene
16.082	* not found *			1		m-Xylene ; p-Xylene
16.783	* not found *			1		o-Xylene ; Styrene
17.406	* not found *			1		Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.116	* not found *			1		n-Propylbenzene
18.260	* not found *			1		(H) 2Cltoluene
18.433	* not found *			1		135-Trimethylbenzene;4-cltolu
18.969	* not found *			1		tert-Butylbenzene
19.055	* not found *			1		124-Trimethylbenzene
19.343	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.677	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.294	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.983	* not found *			1		(H) 124-Triclbenzene
23.264	1077	BB	0.051	1	-0.411	(H) Hexaclbutadiene
23.382	* not found *			1		Naphthalene
23.812	1044	BB	0.057	1	0.132	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071505\023R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 23
Sample Name	: vblk3071505b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 07:51 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 08:01 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

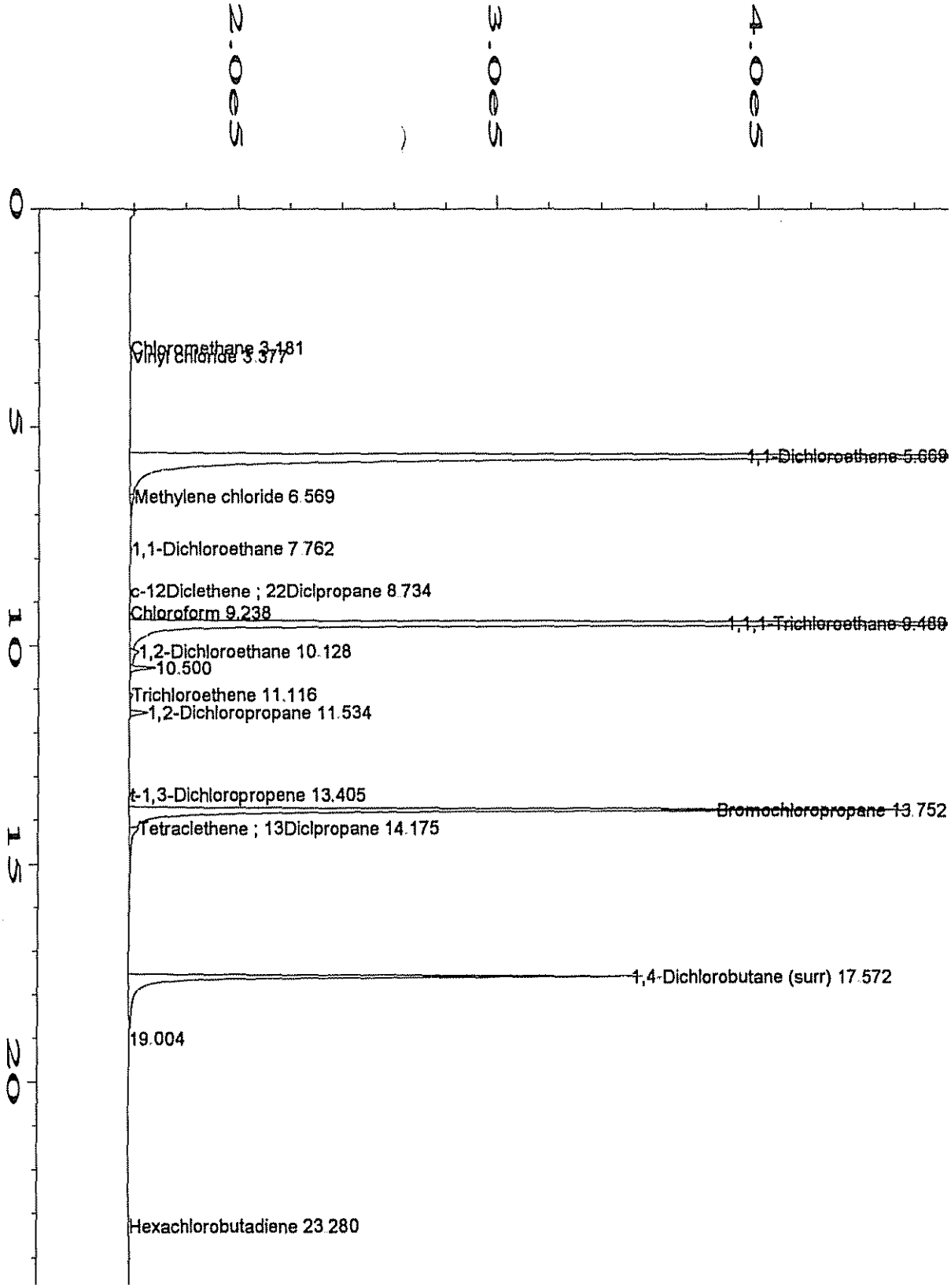
Data File Name : C:\HPCHEM\1\DATA\071605\030F0101.D
Operator : MJC
Instrument : GC3
Sample Name : g122-2617-8a x50
Run Time Bar Code:
Acquired on : 16 Jul 05 11:23 PM
Report Created on: 17 Jul 05 01:54 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\030F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.855	* not found *			1		Dichlorodifluoromethane
3.181	3235	BV	0.104	1	-0.803	Chloromethane
3.377	4441	VB	0.097	1	-0.997	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.669	4402404	BV	0.099	1	30.226	1,1-Dichloroethene
6.569	24118	VV	0.174	1	-0.650	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.762	2517	BB	0.093	1	-0.702	1,1-Dichloroethane
8.734	2383	BB	0.105	1	-1.757	c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.238	1680	BV	0.072	1	-0.876	Chloroform
9.489	3684335	VV	0.080	1	20.727	1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.128	40456	VV	0.143	1	-0.367	1,2-Dichloroethane
11.116	6399	BB	0.082	1	-0.754	Trichloroethene
11.534	33820	BB	0.076	1	-0.705	1,2-Dichloropropane
11.650	* not found *			1		Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.405	3698	BB	0.085	1	0.269	t-1,3-Dichloropropene
13.752	1573003	BV	0.078	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.175	56016	VB	0.194	1	-1.868	Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.572	985482	BV	0.075	1	95.357	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.451	* not found *			1		4-Chlorotoluene
19.532	* not found *			1		1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.308	* not found *			1		1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
22.989	* not found *			1		1,2,4-Trichlorobenzene
23.280	1147	BB	0.046	1	-1.111	Hexachlorobutadiene
23.790	* not found *			1		1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\030F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 30
Sample Name	: g122-2617-8a x50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 11:23 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	17 Jul 05 01:54 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071605\030R0101.D
Operator : MJC
Instrument : GC3
Sample Name : g122-2617-8a x50
Run Time Bar Code:
Acquired on : 16 Jul 05 11:23 PM
Report Created on: 17 Jul 05 01:54 PM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

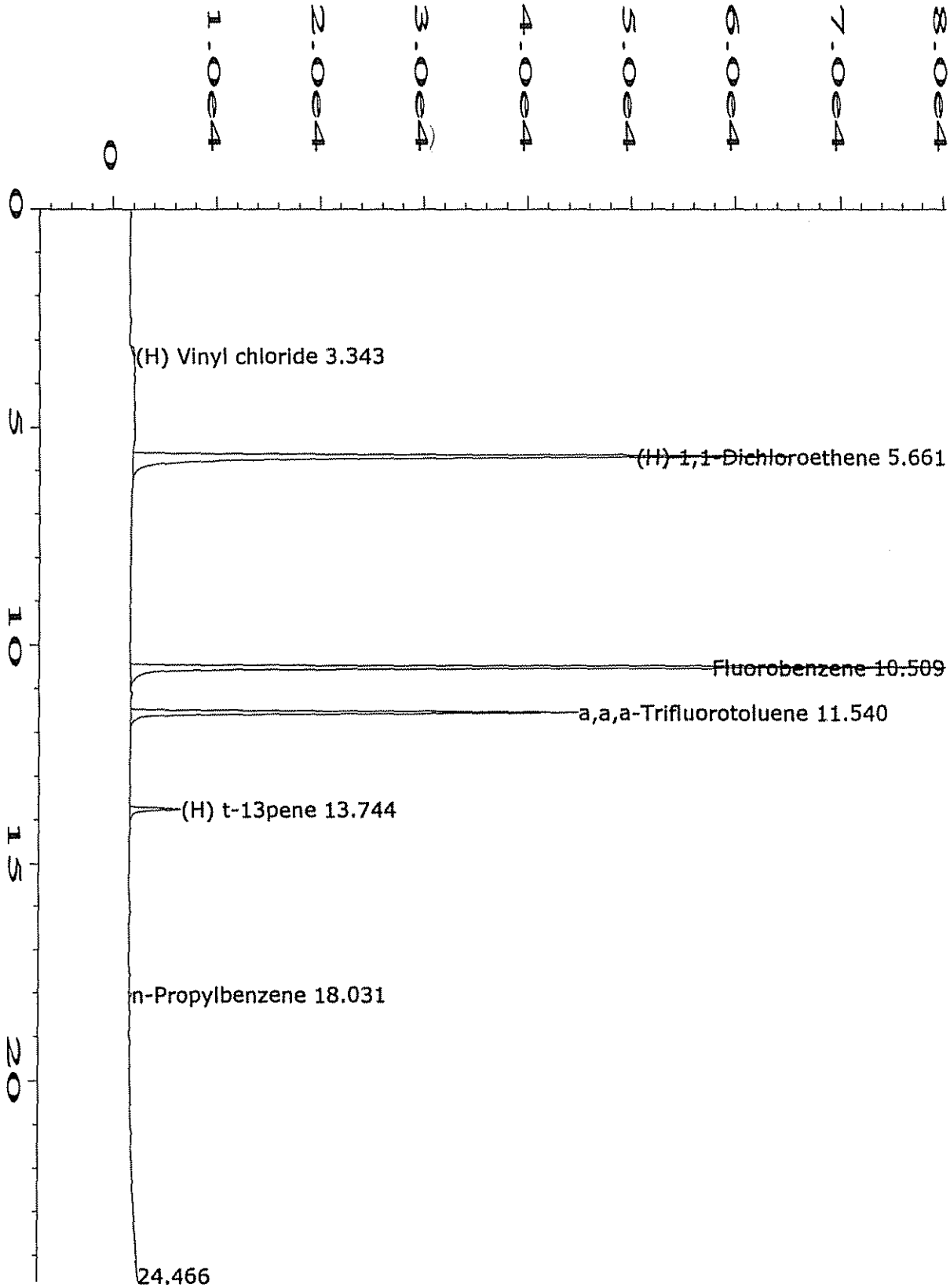
Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\030R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.343	2961	BB	0.200	1	-0.333	(H) Vinyl chloride
5.661	364671	BB	0.084	1	29.843	(H) 1,1-Dichloroethene
7.040	* not found *			1		MTBE ; (H) t-12DCE
7.898	* not found *			1		DIPE
8.710	* not found *			1		(H) c-12dce
9.765	* not found *			1		(H) 11-Diclpropene
10.089	* not found *			1		Benzene
10.509	341507	BV	0.063	1-I	40.000	Fluorobenzene
11.108	* not found *			1		(H) Trichloroethene
11.540	187622	BV	0.067	1	101.866	a,a,a-Trifluorotoluene
12.634	* not found *			1		(H) c-13pene
13.207	* not found *			1		Toluene
13.744	23733	BV	0.073	1	4.365	(H) t-13pene
14.184	* not found *			1		(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.875	* not found *			1		Ethylbenzene
16.082	* not found *			1		m-Xylene ; p-Xylene
16.783	* not found *			1		o-Xylene ; Styrene
17.406	* not found *			1		Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.031	1380	BB	0.065	1	-0.204	n-Propylbenzene
18.260	* not found *			1		(H) 2Cltoluene
18.433	* not found *			1		135-Trimethylbenzene;4-cltolu
18.969	* not found *			1		tert-Butylbenzene
19.055	* not found *			1		124-Trimethylbenzene
19.343	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.677	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.294	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.983	* not found *			1		(H) 124-Triclbenzene
23.272	* not found *			1		(H) Hexaclbutadiene
23.382	* not found *			1		Naphthalene
23.784	* not found *			1		(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071605\030R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 30
Sample Name	: g122-2617-8a x50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 11:23 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 17 Jul 05 01:54 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

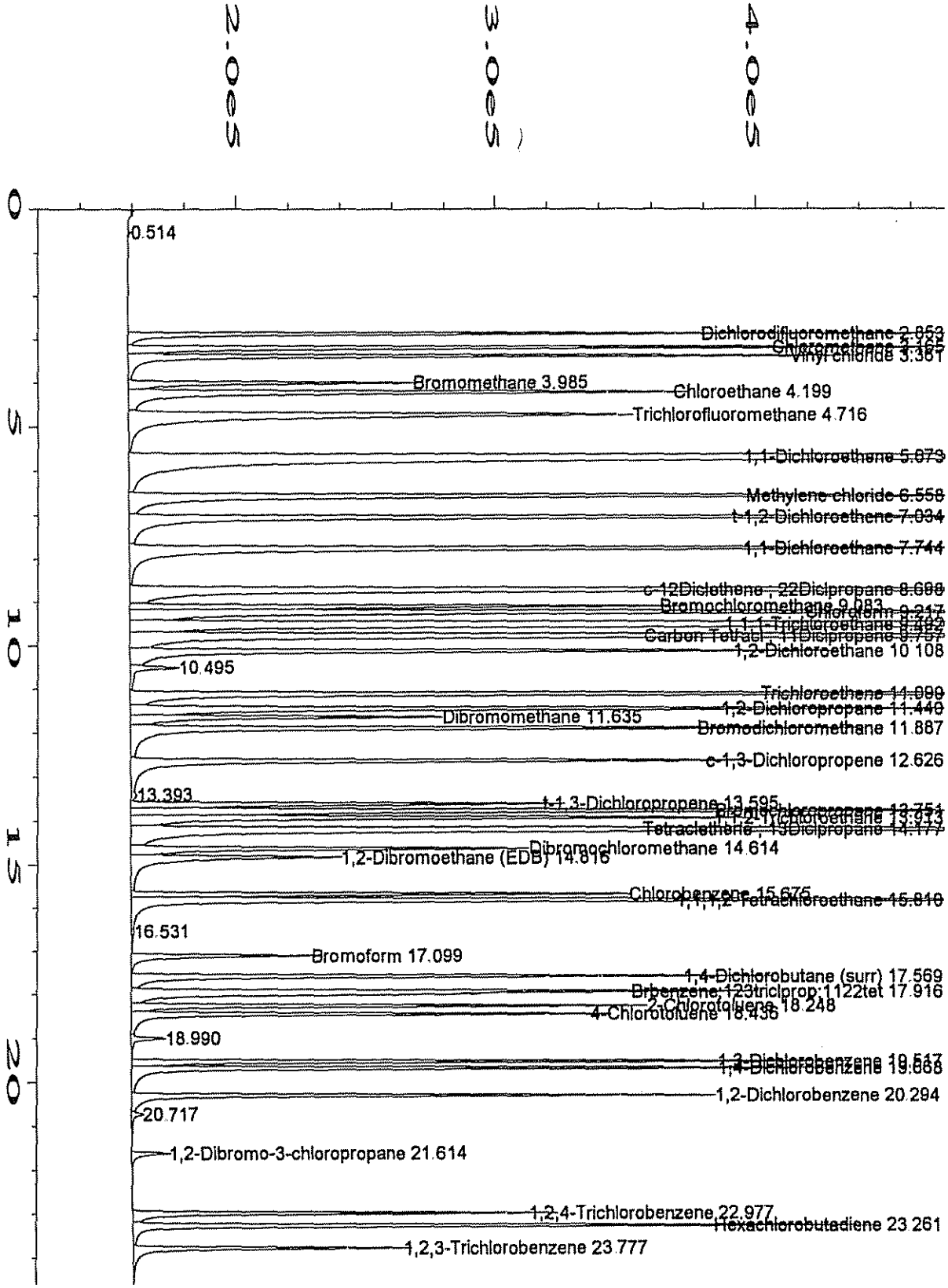
Data File Name : C:\HPCHEM\1\DATA\071605\031F0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140871 x50 ms
Run Time Bar Code:
Acquired on : 16 Jul 05 11:53 PM
Report Created on: 17 Jul 05 01:54 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 31
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\031F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.853	978308	BV	0.046	1	10.271	Dichlorodifluoromethane
3.165	1259787	VV	0.058	1	11.263	Chloromethane
3.361	1125773	VV	0.061	1	11.237	Vinyl chloride
3.985	480609	VV	0.067	1	10.505	Bromomethane
4.199	1153524	VV	0.076	1	11.394	Chloroethane
4.716	1535692	VV	0.108	1	11.595	Trichlorofluoromethane
5.673	6144907	VV	0.091	1	39.968	1,1-Dichloroethene
6.558	1909313	VV	0.076	1	11.362	Methylene chloride
7.034	1981005	VV	0.071	1	11.703	t-1,2-Dichloroethene
7.744	2030388	VV	0.086	1	11.663	1,1-Dichloroethane
8.698	3101358	VV	0.078	1	21.889	c-12Diclethene ; 22Diclpropane
9.083	896913	VV	0.066	1	10.404	Bromochloromethane
9.217	2375588	VV	0.073	1	11.378	Chloroform
9.492	5584936	VV	0.081	1	29.967	1,1,1-Trichloroethane
9.757	3879489	VV	0.074	1	24.127	Carbon Tetracl ; 11Diclpropene
10.108	1287898	VV	0.071	1	10.797	1,2-Dichloroethane
11.099	2106638	VV	0.066	1	11.598	Trichloroethene
11.440	1587538	VV	0.071	1	11.197	1,2-Dichloropropane
11.635	575549	VV	0.070	1	10.085	Dibromomethane
11.887	1372274	VV	0.072	1	10.645	Bromodichloromethane
12.626	1160255	VV	0.072	1	10.426	c-1,3-Dichloropropene
13.595	682505	VV	0.061	1	9.423	t-1,3-Dichloropropene
13.751	1669278	VV	0.076	1-I	40.000	Bromochloropropane
13.913	1198968	VV	0.071	1	10.343	1,1,2-Trichloroethane
14.177	3123591	VV	0.080	1	22.693	Tetraclethene ; 13Diclpropane
14.614	729820	VV	0.070	1	10.087	Dibromochloromethane
14.816	552107	VV	0.096	1	10.044	1,2-Dibromoethane (EDB)
15.675	741505	VV	0.059	1	10.705	Chlorobenzene
15.810	1991209	VV	0.070	1	11.107	1,1,1,2-Tetrachloroethane
17.099	324196	BV	0.069	1	9.047	Bromoform
17.569	1014176	VV	0.061	1	92.473	1,4-Dichlorobutane (surr)
17.916	1418206	VV	0.084	1	29.684	Brbenzene;123triclprop;1122tet
18.248	749755	VV	0.057	1	10.866	2-Chlorotoluene
18.436	750226	VV	0.063	1	10.746	4-Chlorotoluene
19.517	955451	PV	0.054	1	10.588	1,3-Dichlorobenzene
19.668	1056122	VV	0.060	1	10.605	1,4-Dichlorobenzene
20.294	852368	VV	0.057	1	10.450	1,2-Dichlorobenzene
21.614	82945	BB	0.079	1	8.563	1,2-Dibromo-3-chloropropane
22.977	606881	BV	0.055	1	9.375	1,2,4-Trichlorobenzene
23.261	1106218	VV	0.061	1	11.273	Hexachlorobutadiene
23.777	439050	VBA	0.063	1	8.670	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\031F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 31
Sample Name	: 140871 x50 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 11:53 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 17 Jul 05 01:54 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

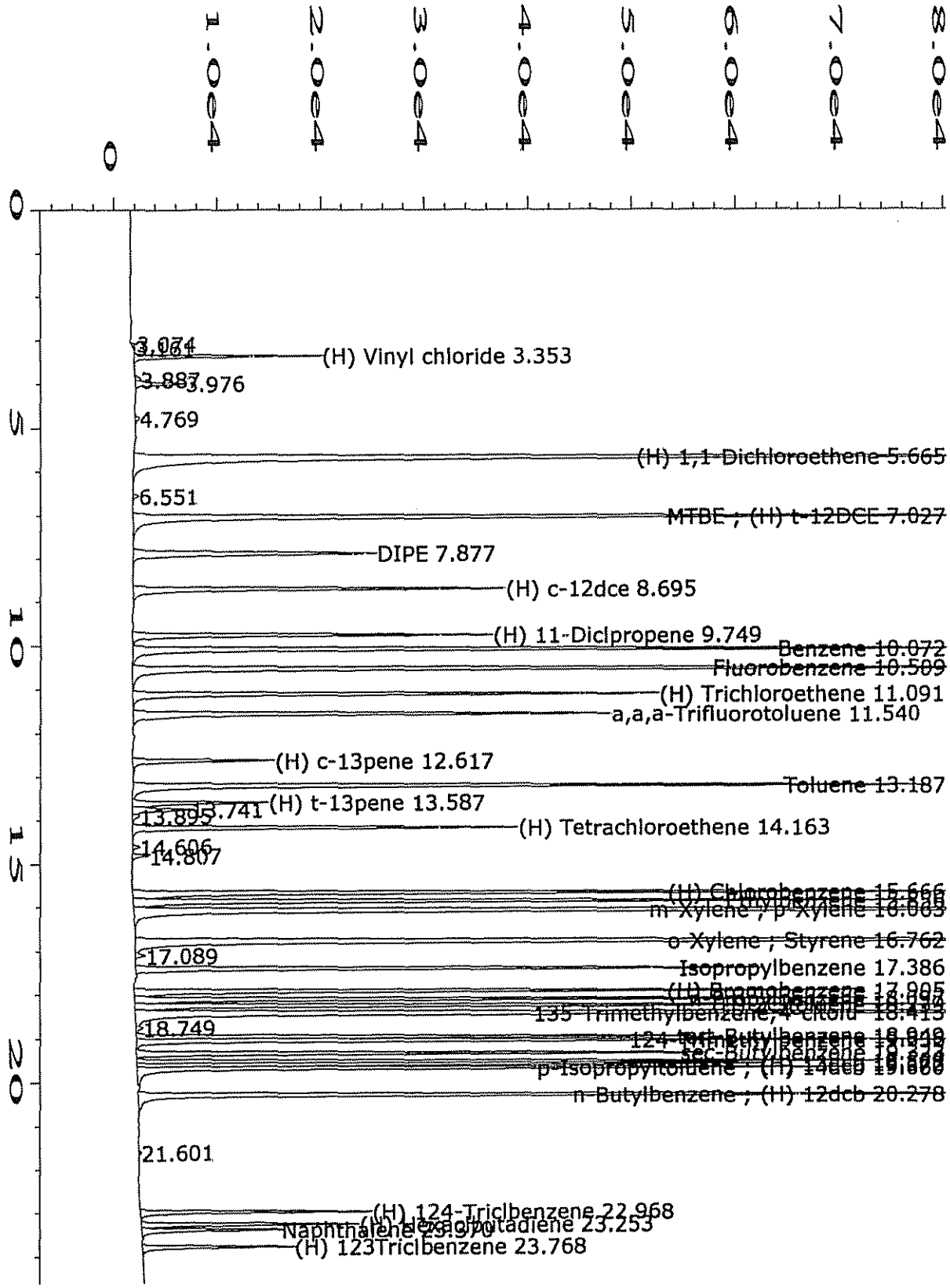
Data File Name : C:\HPCHEM\1\DATA\071605\031R0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140871 x50 ms
Run Time Bar Code:
Acquired on : 16 Jul 05 11:53 PM
Report Created on: 17 Jul 05 01:54 PM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 31
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\031R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.353	58571	BB	0.048	1	9.379	(H) Vinyl chloride
5.665	518006	BB	0.085	1	39.777	(H) 1,1-Dichloroethene
7.027	378790	BB	0.067	1	20.159	MTBE ; (H) t-12DCE
7.877	130067	BB	0.085	1	9.466	DIPE
8.695	150274	BV	0.064	1	9.899	(H) c-12dce
9.749	141341	VV	0.063	1	10.156	(H) 11-Diclpropene
10.072	343238	VV	0.063	1	10.266	Benzene
10.509	364943	VV	0.063	1-I	40.000	Fluorobenzene
11.091	197516	VV	0.060	1	10.287	(H) Trichloroethene
11.540	209022	VB	0.069	1	106.197	a,a,a-Trifluorotoluene
12.617	55983	BB	0.062	1	9.350	(H) c-13pene
13.187	317733	BV	0.064	1	10.292	Toluene
13.587	54082	VV	0.062	1	8.800	(H) t-13pene
14.163	151398	VB	0.063	1	10.289	(H) Tetrachloroethene
15.666	295290	BV	0.058	1	10.029	(H) Chlorobenzene
15.856	287975	VV	0.059	1	10.467	Ethylbenzene
16.063	664867	VB	0.061	1	21.193	m-Xylene ; p-Xylene
16.762	531768	BV	0.071	1	20.481	o-Xylene ; Styrene
17.386	222424	PV	0.058	1	10.536	Isopropylbenzene
17.905	253185	BV	0.052	1	9.752	(H) Bromobenzene
18.097	248346	VV	0.055	1	10.545	n-Propylbenzene
18.239	274424	VV	0.053	1	10.498	(H) 2Cltoluene
18.413	637784	VV	0.066	1	21.084	135-Trimethylbenzene;4-cltolu
18.949	193657	VV	0.056	1	10.720	tert-Butylbenzene
19.036	272869	VV	0.053	1	10.368	124-Trimethylbenzene
19.323	196633	VV	0.056	1	10.621	sec-Butylbenzene
19.572	195388	VV	0.049	1	10.681	(H) 13dcb
19.660	240190	VV	0.052	1	19.857	p-Isopropyltoluene ; (H) 14dcb
20.278	333339	VB	0.058	1	20.050	n-Butylbenzene ; (H) 12dcb
22.968	73884	BV	0.051	1	8.714	(H) 124-Triclbenzene
23.253	72384	VV	0.055	1	10.513	(H) Hexaclbutadiene
23.370	46923	VB	0.052	1	7.710	Naphthalene
23.768	50202	BB	0.051	1	8.129	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\031R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 31
Sample Name	: 140871 x50 ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 11:53 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	17 Jul 05 01:54 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

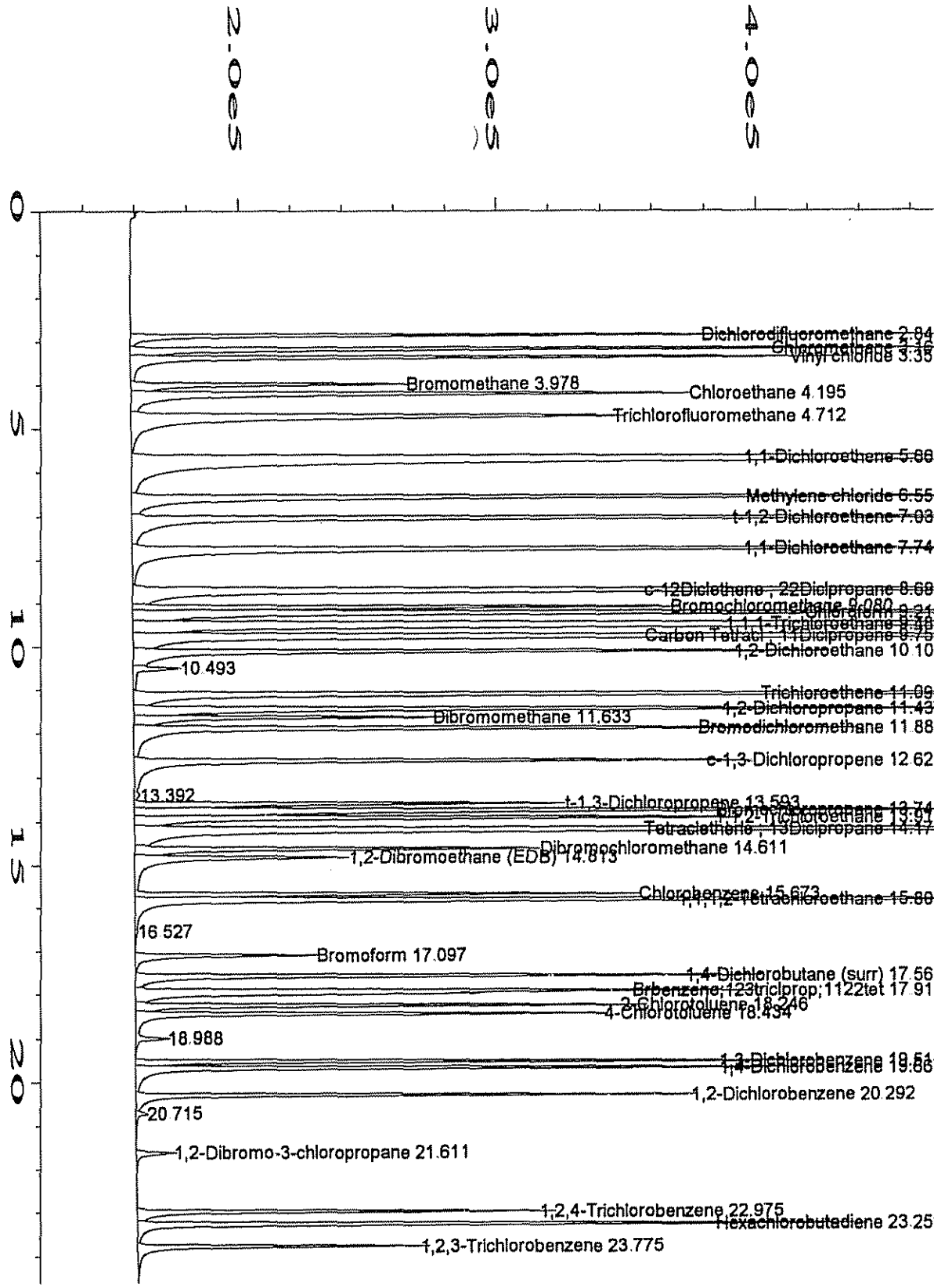
Data File Name : C:\HPCHEM\1\DATA\071605\032F0101.D
Operator : MJC
Instrument : GC3
Sample Name : 140871 x50 msd
Run Time Bar Code:
Acquired on : 17 Jul 05 00:23 AM
Report Created on: 17 Jul 05 01:54 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\032F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.849	941831	BV	0.046	1	9.816	Dichlorodifluoromethane
3.161	1227064	VV	0.060	1	10.900	Chloromethane
3.358	1100830	VV	0.060	1	10.916	Vinyl chloride
3.978	482312	VV	0.067	1	10.498	Bromomethane
4.195	1143838	VV	0.076	1	11.242	Chloroethane
4.712	1522500	VV	0.109	1	11.439	Trichlorofluoromethane
5.669	6073547	VV	0.093	1	39.331	1,1-Dichloroethene
6.554	1891311	VV	0.078	1	11.198	Methylene chloride
7.031	1973562	VV	0.072	1	11.605	t-1,2-Dichloroethene
7.741	2027012	VV	0.085	1	11.592	1,1-Dichloroethane
8.695	3103932	VV	0.077	1	21.811	c-12Diclethene ; 22Diclpropane
9.080	894241	VV	0.066	1	10.327	Bromochloromethane
9.214	2370355	VV	0.072	1	11.301	Chloroform
9.489	5536496	VV	0.081	1	29.574	1,1,1-Trichloroethane
9.754	3883707	VV	0.074	1	24.048	Carbon Tetracl ; 11Diclpropene
10.105	1302005	VV	0.072	1	10.875	1,2-Dichloroethane
11.096	2114855	VV	0.068	1	11.595	Trichloroethene
11.437	1593401	VV	0.072	1	11.192	1,2-Dichloropropane
11.633	578092	VV	0.072	1	10.088	Dibromomethane
11.884	1384753	VV	0.073	1	10.700	Bromodichloromethane
12.622	1149918	VV	0.073	1	10.285	c-1,3-Dichloropropene
13.593	691789	VV	0.062	1	9.510	t-1,3-Dichloropropene
13.748	1676160	VV	0.074	1-I	40.000	Bromochloropropane
13.910	1190690	VV	0.074	1	10.209	1,1,2-Trichloroethane
14.174	3090646	VV	0.081	1	22.327	Tetraclethene ; 13Diclpropane
14.611	731085	VV	0.071	1	10.062	Dibromochloromethane
14.813	550747	VV	0.091	1	9.974	1,2-Dibromoethane (EDB)
15.673	736984	VV	0.057	1	10.594	Chlorobenzene
15.808	1973577	VV	0.070	1	10.952	1,1,1,2-Tetrachloroethane
17.097	331269	BV	0.070	1	9.203	Bromoform
17.566	994550	VV	0.061	1	90.312	1,4-Dichlorobutane (surr)
17.915	1408313	VV	0.081	1	29.328	Brbenzene;123triclprop;1122tet
18.246	747011	VV	0.060	1	10.777	2-Chlorotoluene
18.434	747313	VV	0.062	1	10.654	4-Chlorotoluene
19.515	932033	PV	0.057	1	10.274	1,3-Dichlorobenzene
19.667	1044594	VV	0.060	1	10.434	1,4-Dichlorobenzene
20.292	835297	VV	0.059	1	10.183	1,2-Dichlorobenzene
21.611	87069	BB	0.079	1	8.942	1,2-Dibromo-3-chloropropane
22.975	605098	BV	0.059	1	9.306	1,2,4-Trichlorobenzene
23.259	1115636	VV	0.060	1	11.327	Hexachlorobutadiene
23.775	461496	VBA	0.060	1	9.106	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\032F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 32
Sample Name	: 140871 x50 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 17 Jul 05 00:23 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	17 Jul 05 01:54 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

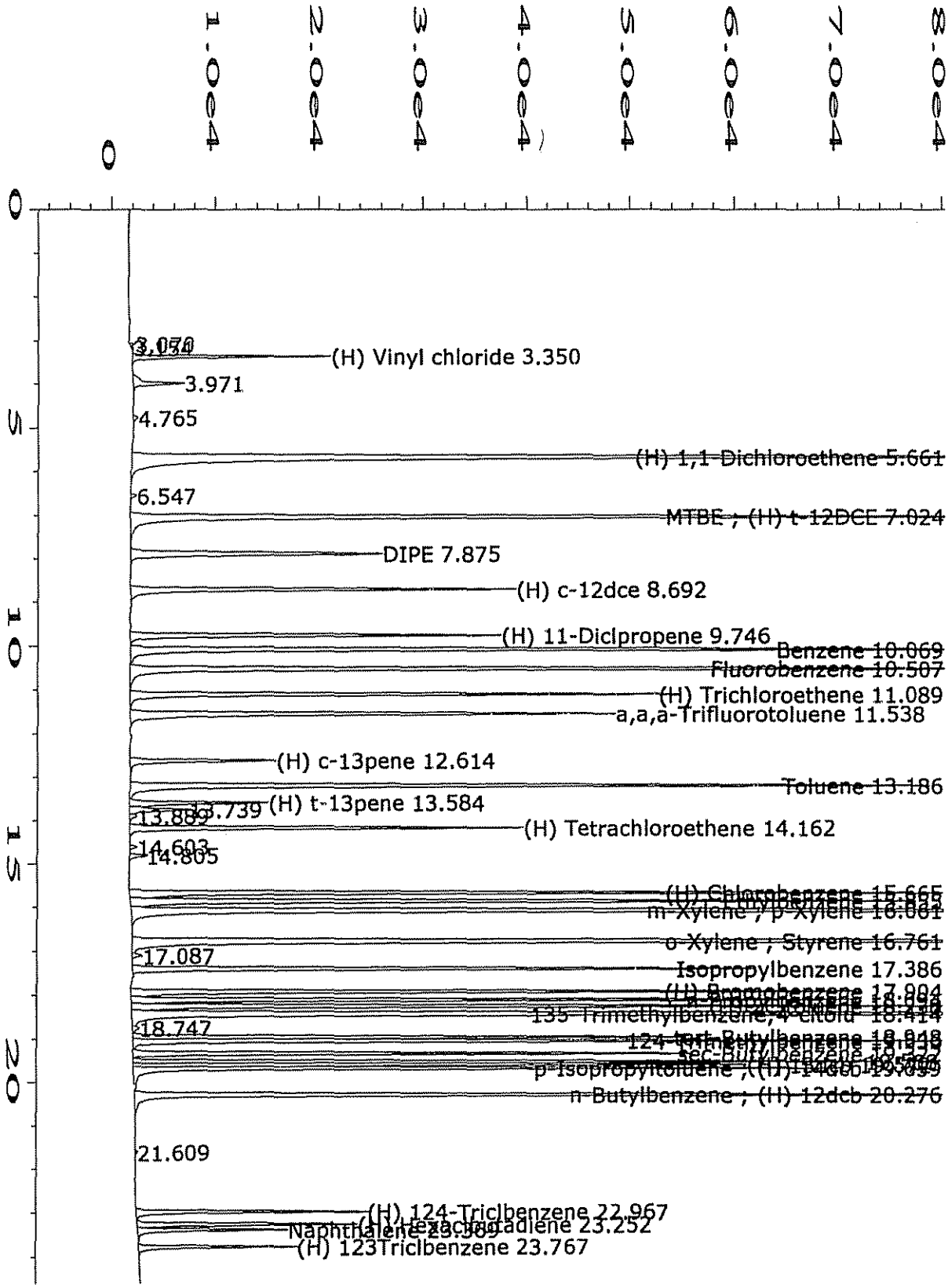
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\071605\032R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 32
Sample Name	: 140871 x50 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 17 Jul 05 00:23 AM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 17 Jul 05 01:54 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\032R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.350	61299	BB	0.049	1	9.668	(H) Vinyl chloride
5.661	532260	BB	0.084	1	40.152	(H) 1,1-Dichloroethene
7.024	391510	BB	0.067	1	20.473	MTBE ; (H) t-12DCE
7.875	134912	BB	0.085	1	9.646	DIPE
8.692	155107	BV	0.063	1	10.038	(H) c-12dce
9.746	145693	BV	0.063	1	10.286	(H) 11-Diclpropene
10.069	352117	VV	0.062	1	10.347	Benzene
10.507	371516	VV	0.063	1-I	40.000	Fluorobenzene
11.089	201731	VV	0.059	1	10.321	(H) Trichloroethene
11.538	212496	VV	0.069	1	106.052	a,a,a-Trifluorotoluene
12.614	57396	BB	0.061	1	9.416	(H) c-13pene
13.186	323807	BV	0.065	1	10.303	Toluene
13.584	55253	VV	0.063	1	8.830	(H) t-13pene
14.162	153666	VB	0.062	1	10.258	(H) Tetrachloroethene
15.665	299039	BV	0.058	1	9.976	(H) Chlorobenzene
15.855	289923	VV	0.059	1	10.348	Ethylbenzene
16.061	665262	VB	0.061	1	20.819	m-Xylene ; p-Xylene
16.761	522134	BV	0.071	1	19.739	o-Xylene ; Styrene
17.386	222789	PV	0.058	1	10.363	Isopropylbenzene
17.904	253387	BV	0.055	1	9.584	(H) Bromobenzene
18.094	247284	VV	0.054	1	10.308	n-Propylbenzene
18.238	272476	VV	0.053	1	10.231	(H) 2Cltoluene
18.414	631860	VV	0.065	1	20.497	135-Trimethylbenzene;4-cltolu
18.948	192986	VV	0.055	1	10.487	tert-Butylbenzene
19.036	269321	VV	0.053	1	10.045	124-Trimethylbenzene
19.322	194685	VV	0.056	1	10.322	sec-Butylbenzene
19.572	194110	VV	0.049	1	10.409	(H) 13dcb
19.659	237786	VV	0.052	1	19.297	p-Isopropyltoluene ; (H) 14dcb
20.276	328167	VB	0.058	1	19.375	n-Butylbenzene ; (H) 12dcb
22.967	74577	BV	0.051	1	8.640	(H) 124-Triclbenzene
23.252	73387	VV	0.054	1	10.468	(H) Hexaclbutadiene
23.369	49979	VB	0.052	1	8.050	Naphthalene
23.767	52717	BV	0.052	1	8.387	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\032R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 32
Sample Name	: 140871 x50 msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 17 Jul 05 00:23 AM	Instrument Method:	8021_HAL.MTH
Report Created on:	17 Jul 05 01:54 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

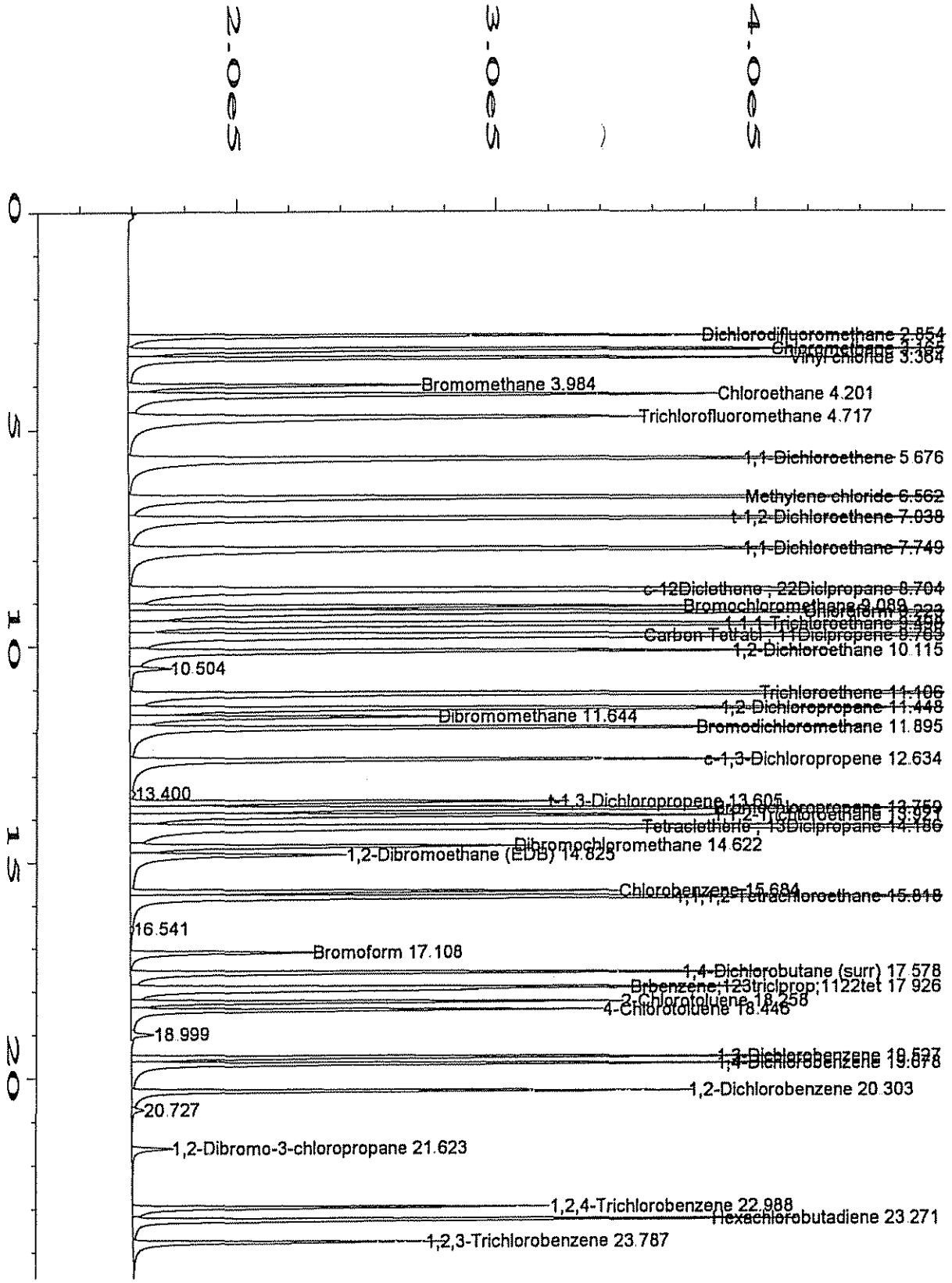
Data File Name : C:\HPCHEM\1\DATA\071605\017F0101.D
Operator : MJC
Instrument : GC3
Sample Name : lcs3071605a
Run Time Bar Code:
Acquired on : 16 Jul 05 04:44 PM
Report Created on: 16 Jul 05 05:09 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\017F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.854	983616	BV	0.044	1	10.495	Dichlorodifluoromethane
3.165	1255502	VV	0.057	1	11.399	Chloromethane
3.364	1123952	VV	0.058	1	11.398	Vinyl chloride
3.984	503275	VV	0.067	1	11.186	Bromomethane
4.201	1164346	VV	0.076	1	11.688	Chloroethane
4.717	1539426	VV	0.110	1	11.807	Trichlorofluoromethane
5.676	1825027	VV	0.090	1	11.575	1,1-Dichloroethene
6.562	1853969	VV	0.074	1	11.184	Methylene chloride
7.038	1940099	VV	0.070	1	11.625	t-1,2-Dichloroethene
7.749	1990162	VV	0.086	1	11.597	1,1-Dichloroethane
8.704	3130392	VV	0.081	1	22.462	c-12Diclethene ; 22Diclpropane
9.089	909409	VV	0.064	1	10.718	Bromochloromethane
9.223	2376234	VV	0.073	1	11.562	Chloroform
9.498	2225349	VV	0.081	1	11.617	1,1,1-Trichloroethane
9.763	3748729	VV	0.074	1	23.616	Carbon Tetracl ; 11Diclpropene
10.115	1281000	VV	0.068	1	10.904	1,2-Dichloroethane
11.106	2109245	VV	0.066	1	11.796	Trichloroethene
11.448	1565122	VV	0.073	1	11.202	1,2-Dichloropropane
11.644	591170	VV	0.071	1	10.525	Dibromomethane
11.895	1382435	VV	0.069	1	10.893	Bromodichloromethane
12.634	1161803	VV	0.073	1	10.601	c-1,3-Dichloropropene
13.605	698326	VV	0.064	1	9.776	t-1,3-Dichloropropene
13.759	1645025	VV	0.077	1-I	40.000	Bromochloropropane
13.921	1183711	VV	0.076	1	10.366	1,1,2-Trichloroethane
14.186	3020561	VV	0.085	1	22.224	Tetraclethene ; 13Diclpropane
14.622	727997	VV	0.070	1	10.217	Dibromochloromethane
14.825	545806	VV	0.089	1	10.078	1,2-Dibromoethane (EDB)
15.684	729810	VV	0.060	1	10.691	Chlorobenzene
15.818	1916235	VV	0.070	1	10.825	1,1,1,2-Tetrachloroethane
17.108	337789	VV	0.067	1	9.555	Bromoform
17.578	1017077	VV	0.063	1	94.105	1,4-Dichlorobutane (surr)
17.926	1419908	VV	0.083	1	30.198	Brbenzene;123triclprop;1122tet
18.258	721740	VV	0.059	1	10.598	2-Chlorotoluene
18.446	733605	VV	0.060	1	10.656	4-Chlorotoluene
19.527	928522	PV	0.054	1	10.435	1,3-Dichlorobenzene
19.678	1030418	VV	0.060	1	10.491	1,4-Dichlorobenzene
20.303	831018	VV	0.059	1	10.332	1,2-Dichlorobenzene
21.623	94748	BB	0.088	1	9.889	1,2-Dibromo-3-chloropropane
22.988	600558	BV	0.058	1	9.415	1,2,4-Trichlorobenzene
23.271	1012670	VV	0.061	1	10.392	Hexachlorobutadiene
23.787	478848	VBA	0.058	1	9.665	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\017F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 17
Sample Name	: lcs3071605a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 04:44 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 05:09 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

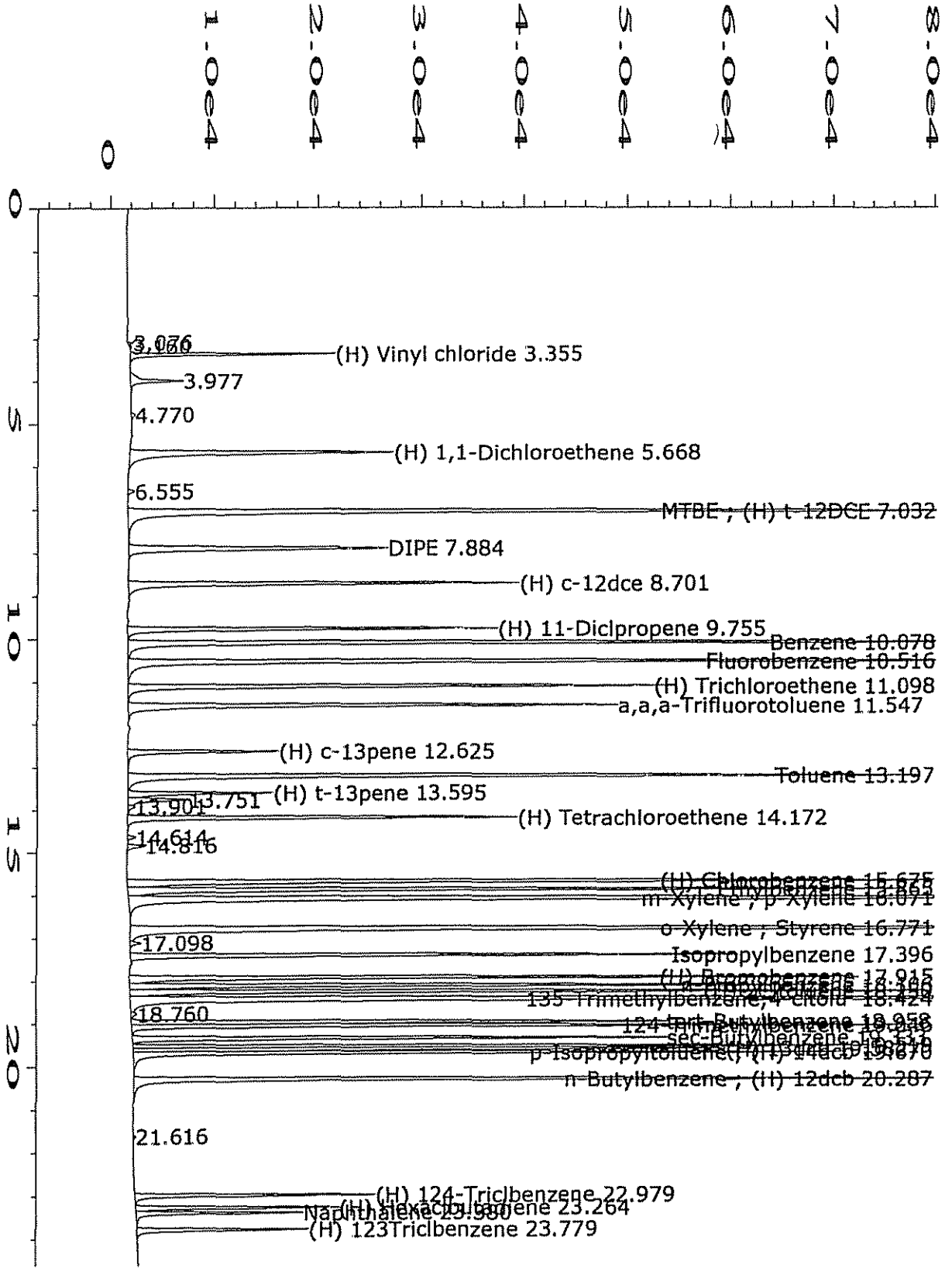
Data File Name : C:\HPCHEM\1\DATA\071605\017R0101.D
Operator : MJC
Instrument : GC3
Sample Name : lcs3071605a
Run Time Bar Code:
Acquired on : 16 Jul 05 04:44 PM
Report Created on: 16 Jul 05 05:09 PM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\017R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.355	61187	BB	0.047	1	9.580	(H) Vinyl chloride
5.668	139754	BB	0.081	1	10.232	(H) 1,1-Dichloroethene
7.032	392140	BB	0.065	1	20.370	MTBE ; (H) t-12DCE
7.884	137056	BB	0.085	1	9.736	DIPE
8.701	155420	BV	0.063	1	9.992	(H) c-12dce
9.755	145635	BV	0.063	1	10.214	(H) 11-Diclpropene
10.078	351315	VV	0.062	1	10.255	Benzene
10.516	373957	VV	0.063	1-I	40.000	Fluorobenzene
11.098	202524	VV	0.059	1	10.293	(H) Trichloroethene
11.547	212789	VB	0.069	1	105.505	a,a,a-Trifluorotoluene
12.625	58941	BB	0.062	1	9.604	(H) c-13pene
13.197	320977	BV	0.064	1	10.144	Toluene
13.595	56919	VV	0.062	1	9.026	(H) t-13pene
14.172	152749	VB	0.063	1	10.128	(H) Tetrachloroethene
15.675	298546	BV	0.058	1	9.894	(H) Chlorobenzene
15.865	286273	VV	0.059	1	10.146	Ethylbenzene
16.071	655504	VB	0.060	1	20.366	m-Xylene ; p-Xylene
16.771	534325	BV	0.071	1	20.075	o-Xylene ; Styrene
17.396	217562	PV	0.058	1	10.047	Isopropylbenzene
17.915	255089	BV	0.054	1	9.585	(H) Bromobenzene
18.106	241352	VV	0.053	1	9.987	n-Propylbenzene
18.250	268613	VV	0.052	1	10.013	(H) 2Cltoluene
18.424	621876	VV	0.063	1	20.023	135-Trimethylbenzene;4-cltolu
18.958	185483	VV	0.055	1	9.997	tert-Butylbenzene
19.046	263272	VV	0.052	1	9.749	124-Trimethylbenzene
19.333	186434	VV	0.057	1	9.806	sec-Butylbenzene
19.582	185910	VV	0.049	1	9.876	(H) 13dcb
19.670	235406	VV	0.052	1	18.970	p-Isopropyltoluene ; (H) 14dcb
20.287	323467	BB	0.059	1	18.964	n-Butylbenzene ; (H) 12dcb
22.979	77316	BV	0.051	1	8.898	(H) 124-Triclbenzene
23.264	68232	VV	0.054	1	9.624	(H) Hexaclbutadiene
23.380	54673	VB	0.051	1	8.716	Naphthalene
23.779	56493	BB	0.052	1	8.932	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\017R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 17
Sample Name	: lcs3071605a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 04:44 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 05:09 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

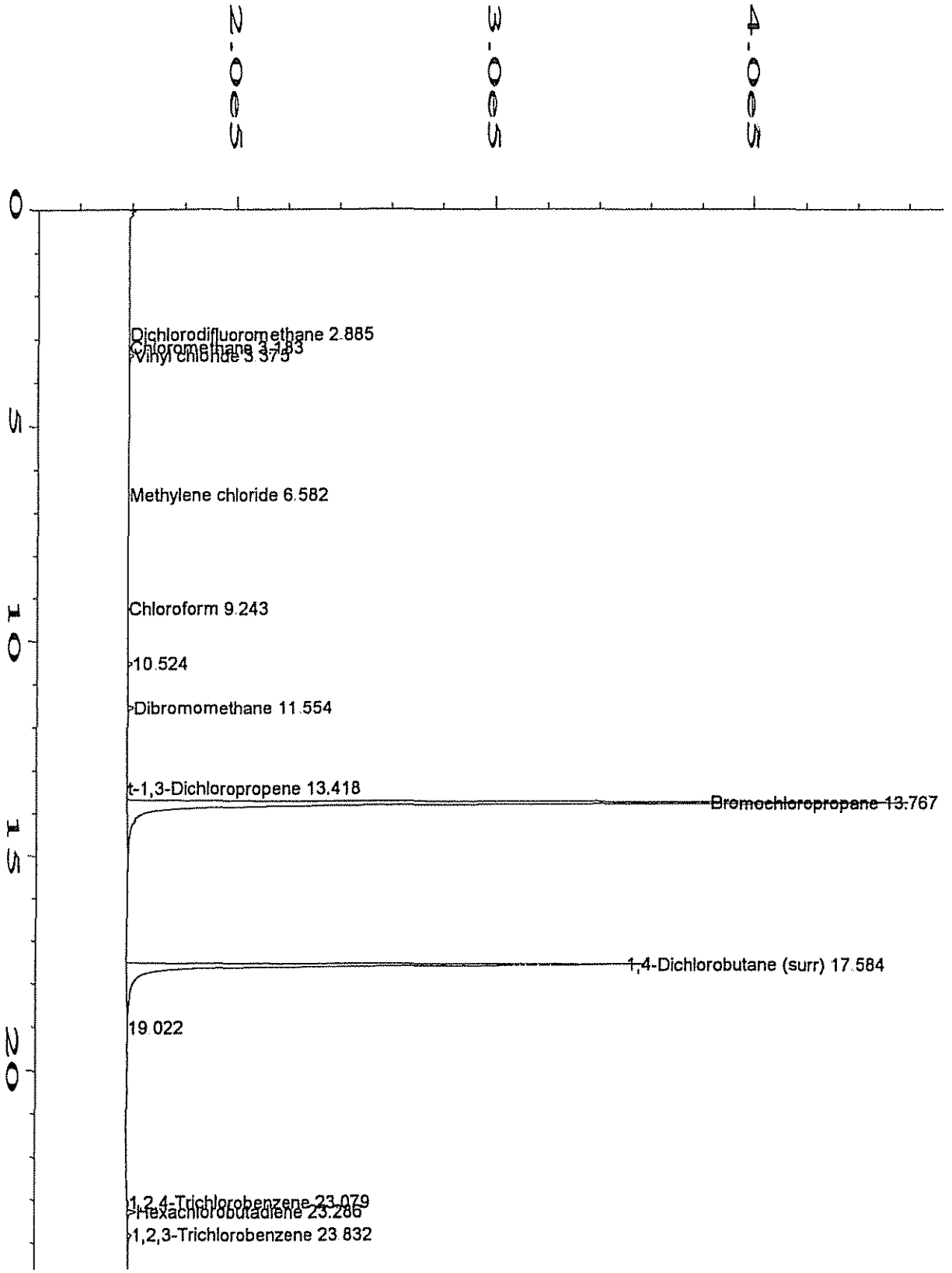
Data File Name : C:\HPCHEM\1\DATA\071605\019F0101.D
Operator : MJC
Instrument : GC3
Sample Name : vblk3071605a
Run Time Bar Code:
Acquired on : 16 Jul 05 05:45 PM
Report Created on: 16 Jul 05 06:10 PM
Last Recalib on : 16 JUL 05 07:43 AM
Multiplier : 1

Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\071605\019F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.885	1502	BB	0.060	1	-0.759	Dichlorodifluoromethane
3.183	1360	BB	0.077	1	-0.822	Chloromethane
3.375	7570	BB	0.063	1	-0.965	Vinyl chloride
3.977	* not found *			1		Bromomethane
4.188	* not found *			1		Chloroethane
4.715	* not found *			1		Trichlorofluoromethane
5.680	* not found *			1		1,1-Dichloroethene
6.582	1869	BB	0.070	1	-0.801	Methylene chloride
7.047	* not found *			1		t-1,2-Dichloroethene
7.759	* not found *			1		1,1-Dichloroethane
8.712	* not found *			1		c-12Diclethene ; 22Diclpropane
9.097	* not found *			1		Bromochloromethane
9.243	1686	BB	0.074	1	-0.876	Chloroform
9.507	* not found *			1		1,1,1-Trichloroethane
9.772	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.123	* not found *			1		1,2-Dichloroethane
11.114	* not found *			1		Trichloroethene
11.457	* not found *			1		1,2-Dichloropropane
11.554	11462	BB	0.074	1	-0.0916	Dibromomethane
11.904	* not found *			1		Bromodichloromethane
12.640	* not found *			1		c-1,3-Dichloropropene
13.418	1788	BB	0.062	1	0.240	t-1,3-Dichloropropene
13.767	1650091	BB	0.083	1-I	40.000	Bromochloropropane
13.929	* not found *			1		1,1,2-Trichloroethane
14.197	* not found *			1		Tetraclethene ; 13Diclpropane
14.630	* not found *			1		Dibromochloromethane
14.828	* not found *			1		1,2-Dibromoethane (EDB)
15.690	* not found *			1		Chlorobenzene
15.829	* not found *			1		1,1,1,2-Tetrachloroethane
17.113	* not found *			1		Bromoform
17.584	992496	BV	0.073	1	91.549	1,4-Dichlorobutane (surr)
17.932	* not found *			1		Brbenzene;123triclprop;1122tet
18.265	* not found *			1		2-Chlorotoluene
18.451	* not found *			1		4-Chlorotoluene
19.532	* not found *			1		1,3-Dichlorobenzene
19.682	* not found *			1		1,4-Dichlorobenzene
20.308	* not found *			1		1,2-Dichlorobenzene
21.618	* not found *			1		1,2-Dibromo-3-chloropropane
23.079	3455	BV	0.071	1	-0.320	1,2,4-Trichlorobenzene
23.286	16171	VB	0.068	1	-0.941	Hexachlorobutadiene
23.832	11033	BB	0.104	1	-0.416	1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\071605\019F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 19
Sample Name	: vblk3071605a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 05:45 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 06:10 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 16 JUL 05 07:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\071605\019R0101.D
Operator : MJC
Instrument : GC3
Sample Name : vblk3071605a
Run Time Bar Code:
Acquired on : 16 Jul 05 05:45 PM
Report Created on: 16 Jul 05 06:10 PM
Last Recalib on : 16 JUL 05 07:20 AM
Multiplier : 1

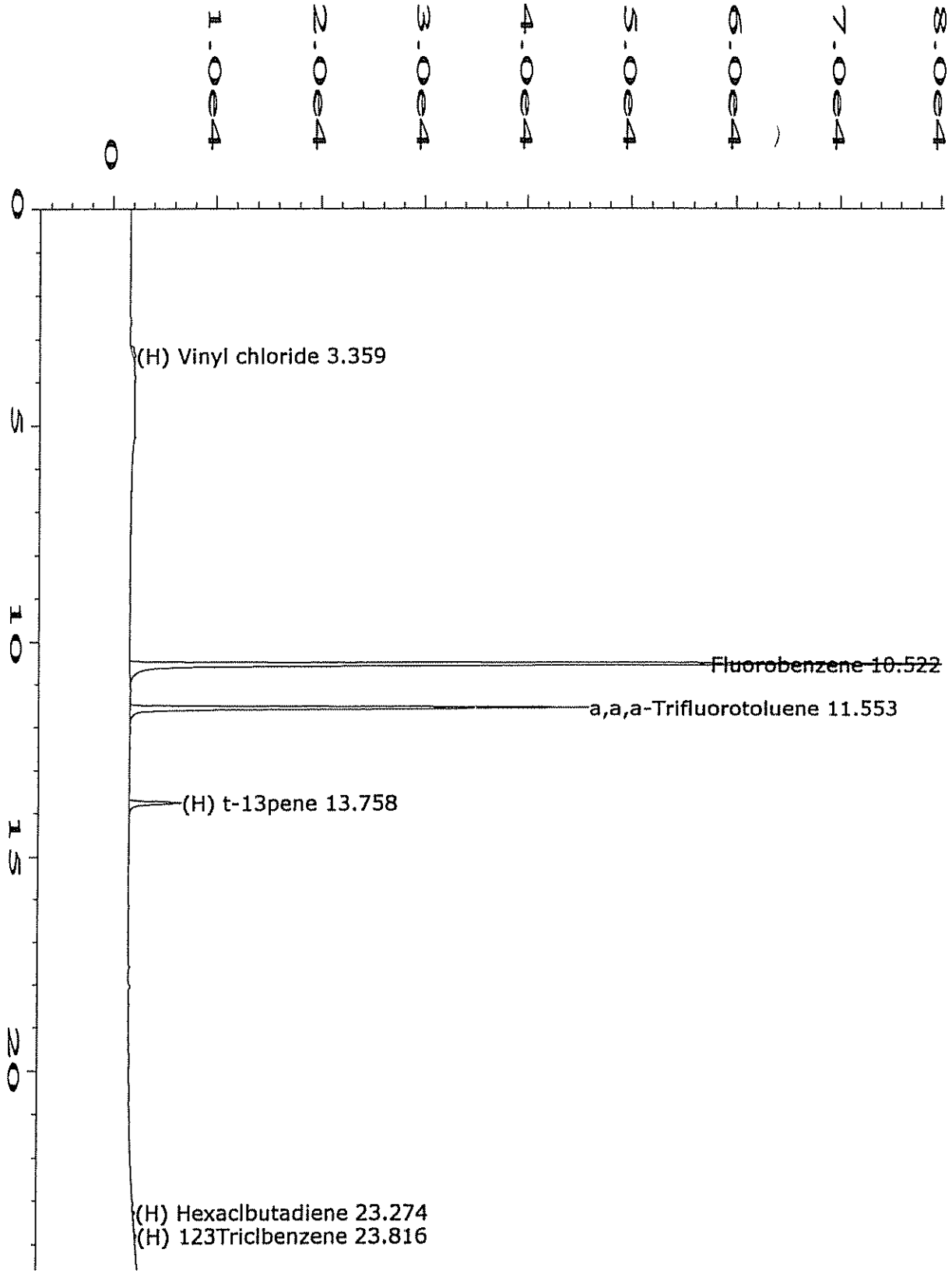
Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\071605\019R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.359	4501	BB	0.167	1	-0.0718	(H) Vinyl chloride
5.671	* not found *			1		(H) 1,1-Dichloroethene
7.040	* not found *			1		MTBE ; (H) t-12DCE
7.898	* not found *			1		DIPE
8.710	* not found *			1		(H) c-12dce
9.765	* not found *			1		(H) 11-Diclpropene
10.089	* not found *			1		Benzene
10.522	353039	BV	0.062	1-I	40.000	Fluorobenzene
11.108	* not found *			1		(H) Trichloroethene
11.553	191641	BV	0.066	1	100.649	a,a,a-Trifluorotoluene
12.634	* not found *			1		(H) c-13pene
13.207	* not found *			1		Toluene
13.758	24402	BB	0.073	1	4.344	(H) t-13pene
14.184	* not found *			1		(H) Tetrachloroethene
15.683	* not found *			1		(H) Chlorobenzene
15.875	* not found *			1		Ethylbenzene
16.082	* not found *			1		m-Xylene ; p-Xylene
16.783	* not found *			1		o-Xylene ; Styrene
17.406	* not found *			1		Isopropylbenzene
17.922	* not found *			1		(H) Bromobenzene
18.116	* not found *			1		n-Propylbenzene
18.260	* not found *			1		(H) 2Cltoluene
18.433	* not found *			1		135-Trimethylbenzene;4-cltolu
18.969	* not found *			1		tert-Butylbenzene
19.055	* not found *			1		124-Trimethylbenzene
19.343	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.677	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.294	* not found *			1		n-Butylbenzene ; (H) 12dcb
22.983	* not found *			1		(H) 124-Triclbenzene
23.274	1015	BV	0.053	1	-0.422	(H) Hexaclbutadiene
23.382	* not found *			1		Naphthalene
23.816	2015	PB	0.108	1	0.294	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\071605\019R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 19
Sample Name	: vblk3071605a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 05 05:45 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 16 Jul 05 06:10 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 16 JUL 05 07:20 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

601/602 Prep, Standard, Run Logs

8021S/WBQ-7-071205-C64
8021S/SGQ-7-071205-C64

Paradigm Analytical
GC3

8021S/WBC-7-071205-C63
8021S/SGC-7-071205-C63

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 07/15/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 071505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
001F0101.D	b	7/15/05 8:38				MJC		
002F0101.D	qchk010	7/15/05 9:08				MJC		
003F0101.D	qchk010	7/15/05 9:38				MJC		
004F0101.D	lcs3071505a	7/15/05 10:08				MJC		
005F0101.D	b	7/15/05 10:38				MJC		
006F0101.D	vblk3071505a	7/15/05 11:09				MJC		
007F0101.D	v0.5	7/15/05 11:40				MJC		
008F0101.D	v1	7/15/05 12:10				MJC		
009F0101.D	v2	7/15/05 12:41				MJC		
010F0101.D	v5	7/15/05 13:12				MJC		
011F0101.D	v10	7/15/05 13:43				MJC		
012F0101.D	v20	7/15/05 14:13				MJC		
013F0101.D	v25	7/15/05 14:44				MJC		
014F0101.D	v40	7/15/05 15:15				MJC		
015F0101.D	v50	7/15/05 15:46				MJC		
016F0101.D	b	7/15/05 16:17				MJC		
017F0101.D	b	7/15/05 16:48				MJC		
018F0101.D	2ppbchk	7/15/05 17:18				MJC		
019F0101.D	qchk010	7/15/05 17:49				MJC		
020F0101.D	qchk010	7/15/05 18:20				MJC		

Analyst:_____

See Top for Standard Lot Numbers

Page Number: _____
VO10.112202.1

8021S/WBQ-7-071205-C64
8021S/SGQ-7-071205-C64

Paradigm Analytical
GC3

8021S/WBC-7-071205-C63
8021S/SGC-7-071205-C63

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 07/15/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 071505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
021F0101.D	lcs3071505b	7/15/05 18:50				MJC		
022F0101.D	b	7/15/05 19:21				MJC		
023F0101.D	vblk3071505b	7/15/05 19:51				MJC		
024F0101.D	g161-2069-5a	7/15/05 20:22				MJC		
025F0101.D	g161-2070-6a	7/15/05 20:53				MJC		
026F0101.D	g161-2069-4a	7/15/05 21:23				MJC		
027F0101.D	g161-2070-1a	7/15/05 21:54				MJC		
028F0101.D	g161-2070-2a	7/15/05 22:24				MJC		
029F0101.D	g161-2070-2b dup	7/15/05 22:55				MJC		
030F0101.D	g161-2070-3a	7/15/05 23:25				MJC		
031F0101.D	g161-2070-4a	7/15/05 23:56				MJC		
032F0101.D	g161-2070-5a	7/16/05 0:26				MJC		
033F0101.D	g161-2069-1a	7/16/05 0:56				MJC		
034F0101.D	g161-2069-1a x5	7/16/05 1:27				MJC		
035F0101.D	g161-2069-2a x20	7/16/05 1:57				MJC		
036F0101.D	g161-2069-3a x25	7/16/05 2:28				MJC		
037F0101.D	G161-2069-3A x25 ms	7/16/05 2:58	cid= 140926			MJC		
038F0101.D	G161-2069-3A x25 msd	7/16/05 3:29	cid= 140926			MJC		
039F0101.D	qchk010	7/16/05 3:59				MJC		
040F0101.D	qchk010	7/16/05 4:30				MJC		

Analyst:_____

See Top for Standard Lot Numbers

Page Number: _____
VO10.112202.1

8021S/WBQ-7-071205-C64
8021S/SGQ-7-071205-C64

Paradigm Analytical
GC3

8021S/WBC-7-071205-C63
8021S/SGC-7-071205-C63

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 07/15/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 071505

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
041F0101.D	lcs3071505c	7/16/05 5:00				MJC		
042F0101.D	b	7/16/05 5:30				MJC		
043F0101.D	vblk3071505c	7/16/05 6:01				MJC		

Analyst:_____

See Top for Standard Lot Numbers

Page Number: _____
VO10.112202.1

8021S/WBQ-7-071205-C64
8021S/SGQ-7-071205-C64

Paradigm Analytical
GC3

8021S/WBC-7-071205-C63
8021S/SGC-7-071205-C63

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 07/15/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 071605

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
001F0101.D	b	7/16/05 8:35				MJC		
002F0101.D	g122-2617-1a	7/16/05 9:05				MJC		
003F0101.D	g122-2617-2a	7/16/05 9:35				MJC		
004F0101.D	g122-2617-3a	7/16/05 10:06				MJC		
005F0101.D	g122-2617-4a	7/16/05 10:37				MJC		
006F0101.D	g122-2617-5a	7/16/05 11:07				MJC		
007F0101.D	g122-2617-6a	7/16/05 11:38				MJC		
008F0101.D	g122-2617-6b dup	7/16/05 12:08				MJC		
009F0101.D	g122-2617-9a	7/16/05 12:39				MJC		
010F0101.D	g122-2617-10a	7/16/05 13:10				MJC		
011F0101.D	g122-2617-12a	7/16/05 13:41				MJC		
012F0101.D	G122-2617-11A x800	7/16/05 14:11	cid= 140887			MJC		
013F0101.D	G122-2617-11A x800 ms	7/16/05 14:42	cid= 140887			MJC		
014F0101.D	G122-2617-11A x800 msd	7/16/05 15:12	cid= 140887			MJC		
015F0101.D	qchk010	7/16/05 15:43				MJC		
016F0101.D	qchk010	7/16/05 16:13				MJC		
017F0101.D	lcs3071605a	7/16/05 16:44				MJC		
018F0101.D	b	7/16/05 17:15				MJC		
019F0101.D	vblk3071605a	7/16/05 17:45				MJC		
020F0101.D	g161-2069-2b	7/16/05 18:16				MJC		

Analyst:_____

See Top for Standard Lot Numbers

Page Number: _____
VO10.112202.1

8021S/WBQ-7-071205-C64
8021S/SGQ-7-071205-C64

Paradigm Analytical
GC3

8021S/WBC-7-071205-C63
8021S/SGC-7-071205-C63

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 07/15/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 071605

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
021F0101.D	g161-2069-3b	7/16/05 18:47				MJC		
022F0101.D	g122-2619-1a	7/16/05 19:18				MJC		
023F0101.D	g122-2619-1b dup	7/16/05 19:48				MJC		
024F0101.D	g122-2619-2a	7/16/05 20:19				MJC		
025F0101.D	g122-2619-3a	7/16/05 20:50				MJC		
026F0101.D	g122-2619-4a	7/16/05 21:20				MJC		
027F0101.D	g122-2619-5a	7/16/05 21:51				MJC		
028F0101.D	g122-2619-6a	7/16/05 22:21				MJC		
029F0101.D	g122-2619-7a	7/16/05 22:52				MJC		
030F0101.D	g122-2617-8a x50	7/16/05 23:23				MJC		
031F0101.D	G122-2617-8A x50 ms	7/16/05 23:53	cid= 140871			MJC		
032F0101.D	G122-2617-8A x50 msd	7/17/05 0:23	cid= 140871			MJC		
033F0101.D	qchk010	7/17/05 0:54				MJC		
034F0101.D	qchk010	7/17/05 1:24				MJC		
035F0101.D	lcs3071605b	7/17/05 1:55				MJC		
036F0101.D	b	7/17/05 2:25				MJC		
037F0101.D	vblk3071605b	7/17/05 2:56				MJC		

Page Number: _____

Analyst:_____

See Top for Standard Lot Numbers

VO10.112202.1

Volatiles Standard Notebook # 007 — **GC Water and Soil** — **CURVE**

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A- 19	Restek 502.2 MEGA mix lot A033291	2000	100	10	20
	7B- 126	MTBE/DIPE stock 7- 071205	2000	100	10	20
Soil BASE Mix:	7A- 19	Restek 502.2 MEGA mix lot A033291	2000	25	10	5
	7B- 126	MTBE/DIPE stock 7- 071205	2000	25	10	5
	Solvent:	Methanol LOT# CN017				

Ampule opened: 7/12/05
Prep date: ↓
Expiration date: 8/12/05

PAL lot number:
8021WBC-7-
8021SBC-7- 071205

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 27	Restek gases A034238	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN017				

Ampule opened: 7/12/05
Prep date: ↓
Expiration date: 7/19/05

PAL lot number:
8021WGC-7-
8021SGC-7- 071205

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGC-7-
8021SGC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGC-7-
8021SGC-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGC-7-
8021SGC-7-

See reverse for any comments

page: C103

VO12.112202.1

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A- 20	Restek 502.2 MEGA mix lot A033292	2000	100	10	20
	7B- 125	MTBE/DIPE stock 7- 071205	2000	100	10	20
Soil BASE Mix:	7A- 20	Restek 502.2 MEGA mix lot A033292	2000	25	10	5
	7B- 125	MTBE/DIPE stock 7- 071205	2000	25	10	5
	Solvent:	Methanol LOT# CN017				

Ampule opened: 07-12-05
Prep date: ↓
Expiration date: 08-12-05

PAL lot number:
8021WBQ-7-
8021SBQ-7- 071205

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 28	Restek gases A036202	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN017				

Ampule opened: 7/12/05
Prep date: ↓
Expiration date: 7/19/05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 071205

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGQ-7-
8021SGQ-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGQ-7-
8021SGQ-7-

	Refering Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A-	Restek gases	2000	100	10	20
Soil GAS Mix:	7A-	Restek gases	2000	25	10	5
	Solvent:	Methanol LOT#				

Ampule opened:
Prep date:
Expiration date:

PAL lot number:
8021WGQ-7-
8021SGQ-7-

See reverse for any comments

EDB Sample Raw Data

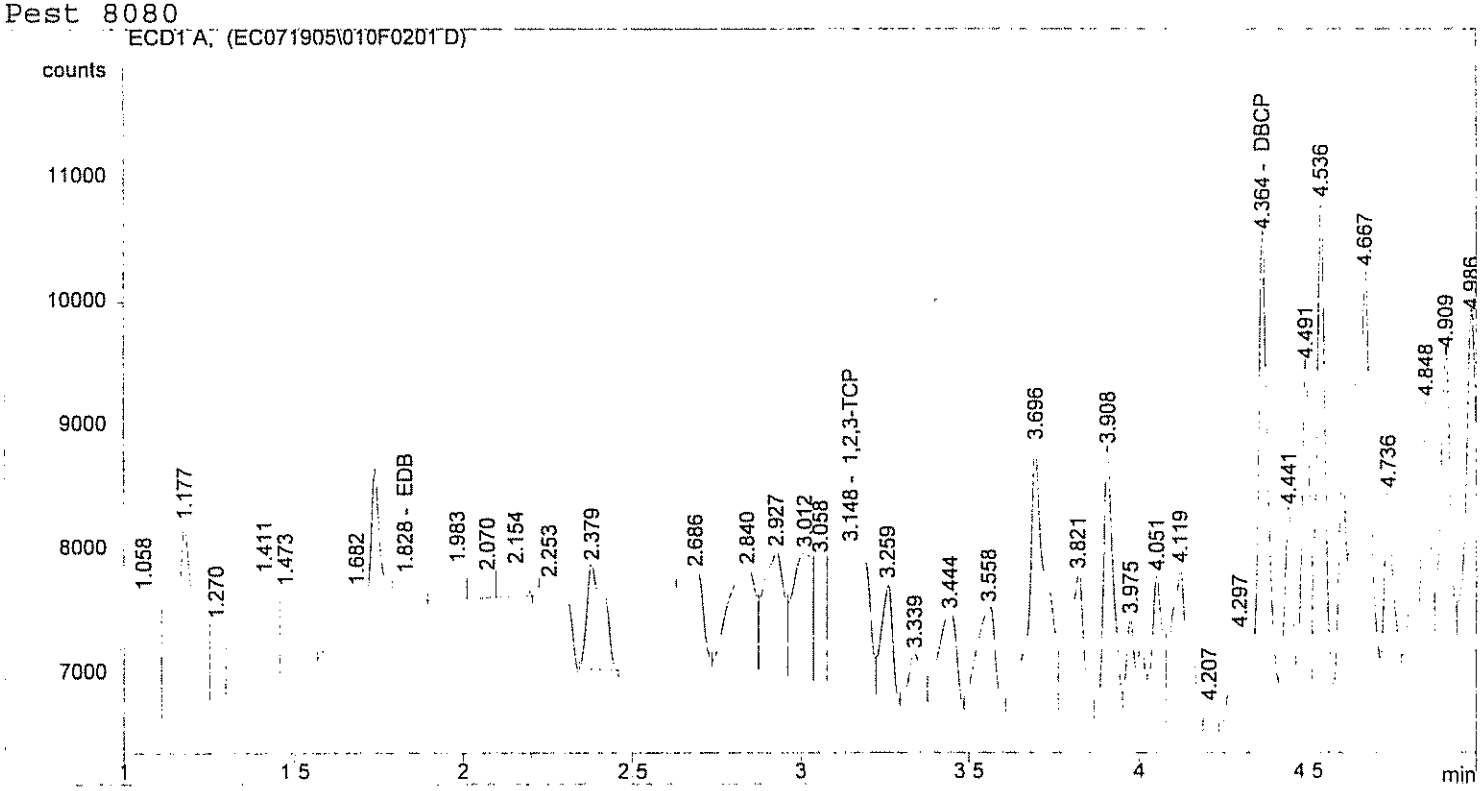
161-2069-1

==========

Injection Date : 7/19/05 03:36:41 PM
Sample Name : G161-2069-1O x1
Acq. Operator : CLP

Seq. Line : 2
Vial : 10
Inj : 1
Inj Volume : 2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\071905.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 4/13/05 08:08:30 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed : 7/20/05 10:32:24 AM by CLP
Pest 8080



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : Tuesday, July 19, 2005 12:30:18 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.828	BP	330.91953	0.00000	0.00000		EDB
3.148	VV	8367.94336	8.29538e-5	6.94153e-1		1,2,3-TCP
4.364	BP	5346.96387	3.53050e-5	1.88775e-1		DBCP

Totals : 8.82928e-1

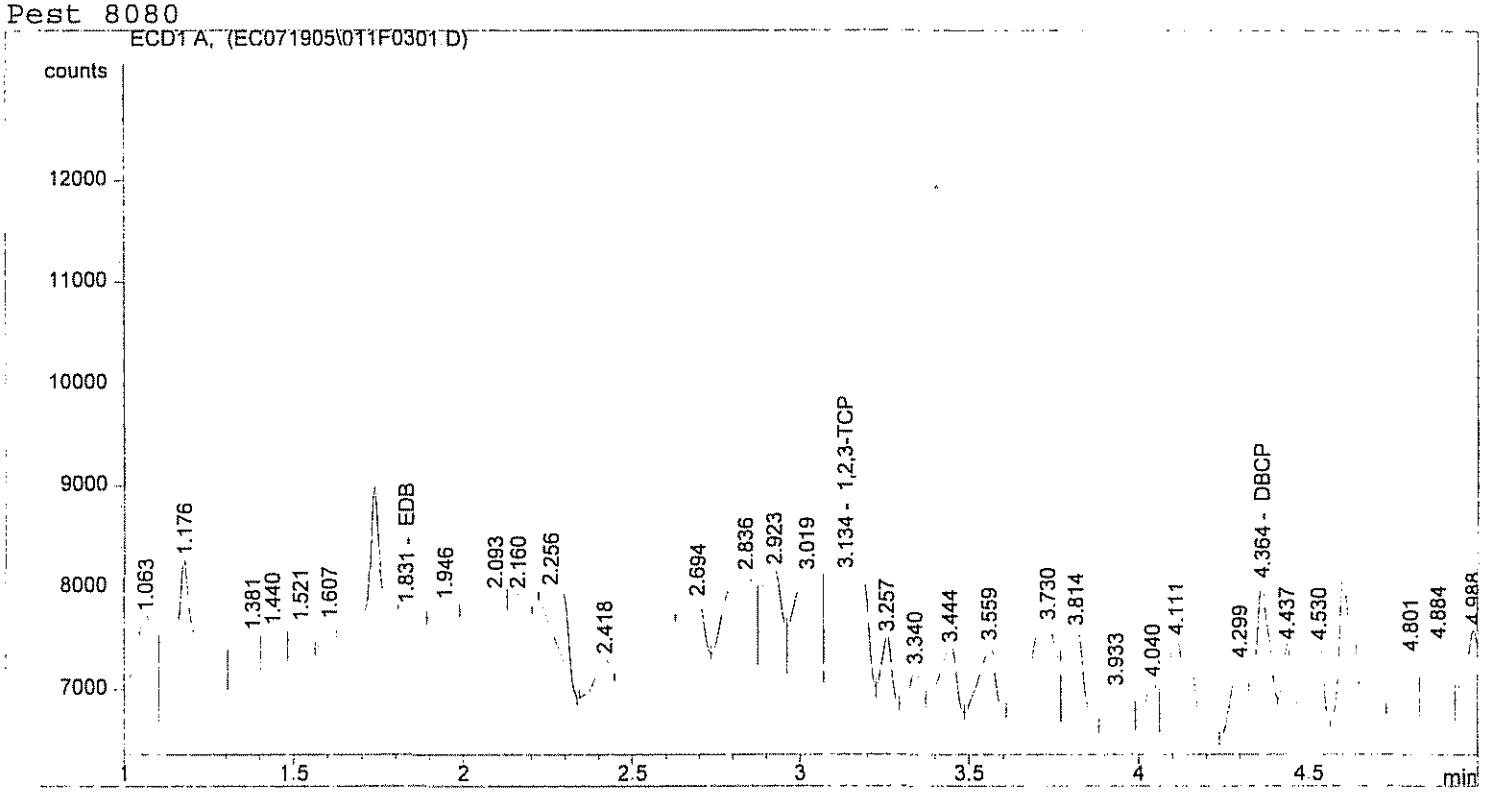
CP 7/20

Results obtained with enhanced integrator!
1 Warnings or Errors :

==========

Injection Date : 7/19/05 03:50:26 PM Seq. Line : 3
Sample Name : G161-2069-2R x1 Vial : 11
Acq. Operator : CLP Inj : 1
Inj Volume : 2 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\071905.S
Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed : 7/20/05 10:32:24 AM by CLP
Pest 8080



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External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : Tuesday, July 19, 2005 12:30:18 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.831	BP	127.44906	0.00000	0.00000		EDB
3.134	VV	9009.78906	8.86351e-5	7.98584e-1		1,2,3-TCP
4.364	BP	1740.46375	1.04405e-6	1.81713e-3		DBCP

Totals : 8.00401e-1

Results obtained with enhanced integrator!
1 Warnings or Errors :

7/20

EDB Calibration Raw Data

Calibration Table

8080 Pesticides

Calib. Data Modified : 7/15/05 09:53:48 AM

Calculate : External Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: ECD1 A,

RetTime [min]	Sig	Lvl	Amount [µg/L]	Area	Amt/Area	Ref	Grp	Name
1.871	1	1	2.00000e-2	1239.91113	1.61302e-5			EDB
		2	1.00000e-1	4843.92773	2.06444e-5			
		3	5.00000e-1	1.68811e4	2.96188e-5			
		4	1.00000	3.15200e4	3.17259e-5			
		5	2.00000	5.46170e4	3.66186e-5			
3.195	1	2	1.00000e-1	2953.25317	3.38610e-5			1,2,3-TCP
		3	5.00000e-1	6232.15723	8.02290e-5			
		4	1.00000	1.02450e4	9.76082e-5			
		5	2.00000	1.61549e4	1.23801e-4			
		6	4.00000	2.39030e4	1.67343e-4			
4.381	1	1	2.00000e-2	1041.51611	1.92028e-5			DBCP
		2	1.00000e-1	3554.90918	2.81301e-5			
		3	5.00000e-1	1.17849e4	4.24271e-5			
		4	1.00000	2.25741e4	4.42986e-5			
		5	2.00000	3.94032e4	5.07573e-5			

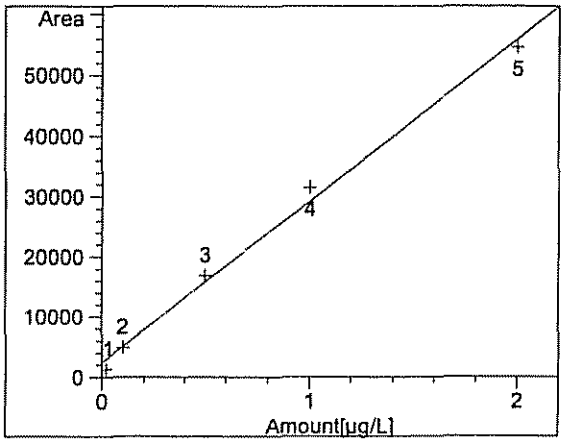
More compound-specific settings:

Compound: EDB
Time Window : From 1.841 min To 1.901 min

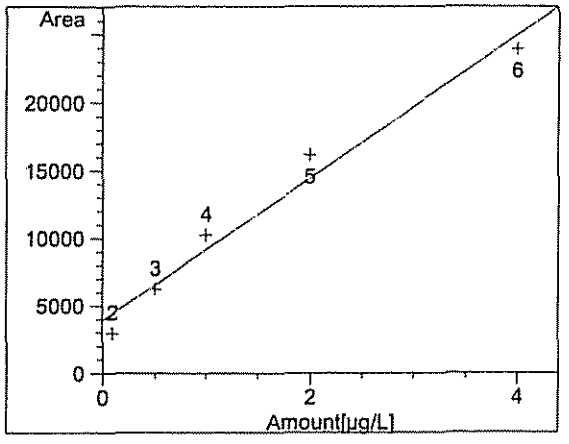
Peak Sum Table

No Entries in table

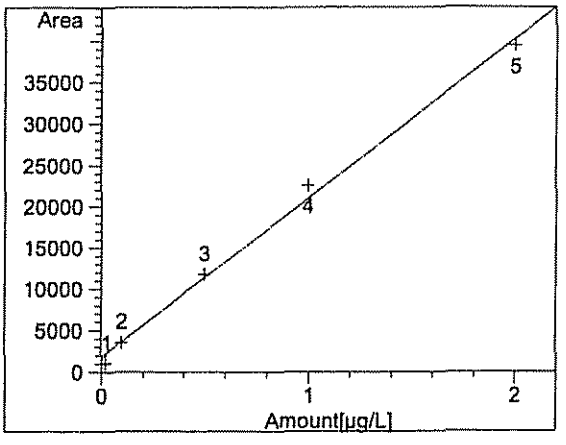
Calibration Curves



EDB at exp. RT: 1.871
ECD1 A,
Correlation: 0.99701
Residual Std. Dev.: 1948.91087
Formula: y = mx + b
m: 26790.46390
b: 2424.11136
x: Amount[µg/L]
y: Area

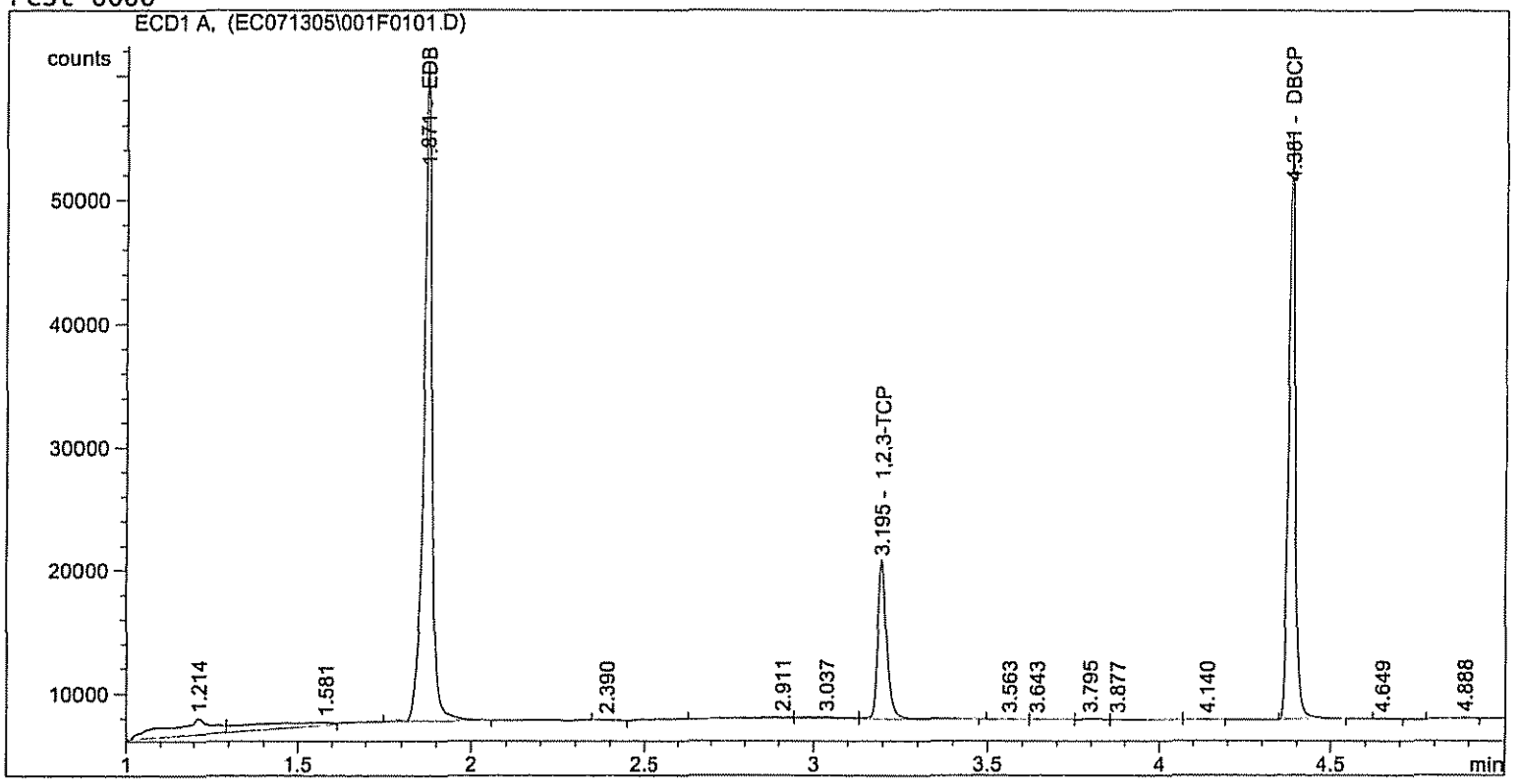


1,2,3-TCP at exp. RT: 3.195
ECD1 A,
Correlation: 0.98634
Residual Std. Dev.: 1583.16498
Formula: y = mx + b
m: 5269.47556
b: 3888.07630
x: Amount[µg/L]
y: Area



DBCP at exp. RT: 4.381
ECD1 A,
Correlation: 0.99768
Residual Std. Dev.: 1233.88348
Formula: y = mx + b
m: 19290.47801
b: 1705.41043
x: Amount[µg/L]
y: Area

```
Injection Date  : 7/13/05 04:05:48 PM          Seq. Line :   1
Sample Name     : EDB 4                             Vial :   1
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:30 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```



External Standard Report

```
Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

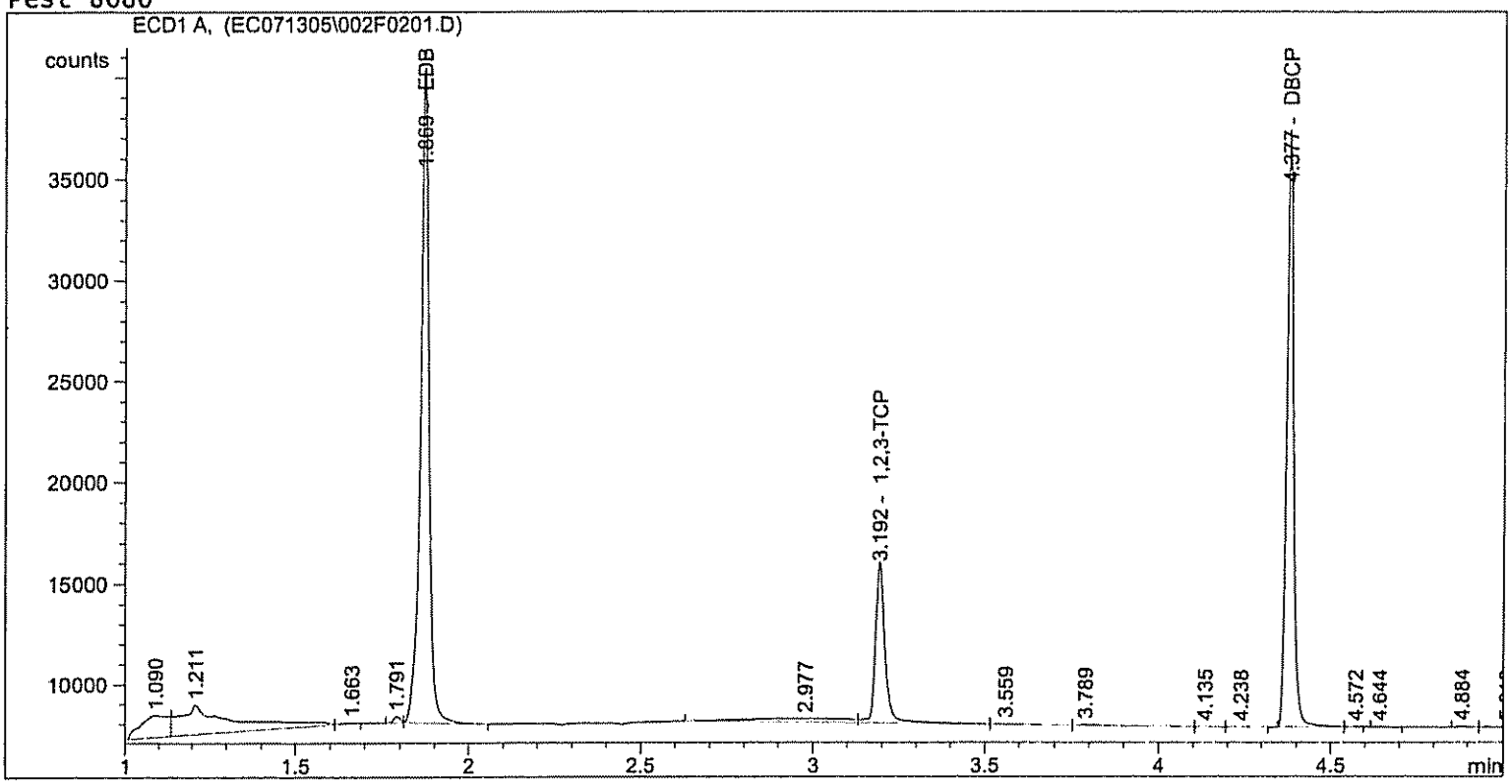
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.871	BV	8.73382e4	3.62907e-5	3.16956		EDB
3.195	VB	2.39030e4	1.58904e-4	3.79829		1,2,3-TCP
4.381	BV	6.16994e4	5.04062e-5	3.11003		DBCP

Totals : 10.07788

Results obtained with enhanced integrator!

*** End of Report ***

```
Injection Date  : 7/13/05 04:19:29 PM          Seq. Line :   2
Sample Name     : EDB 2                             Vial :   2
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl

Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:30 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```



External Standard Report

```
Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

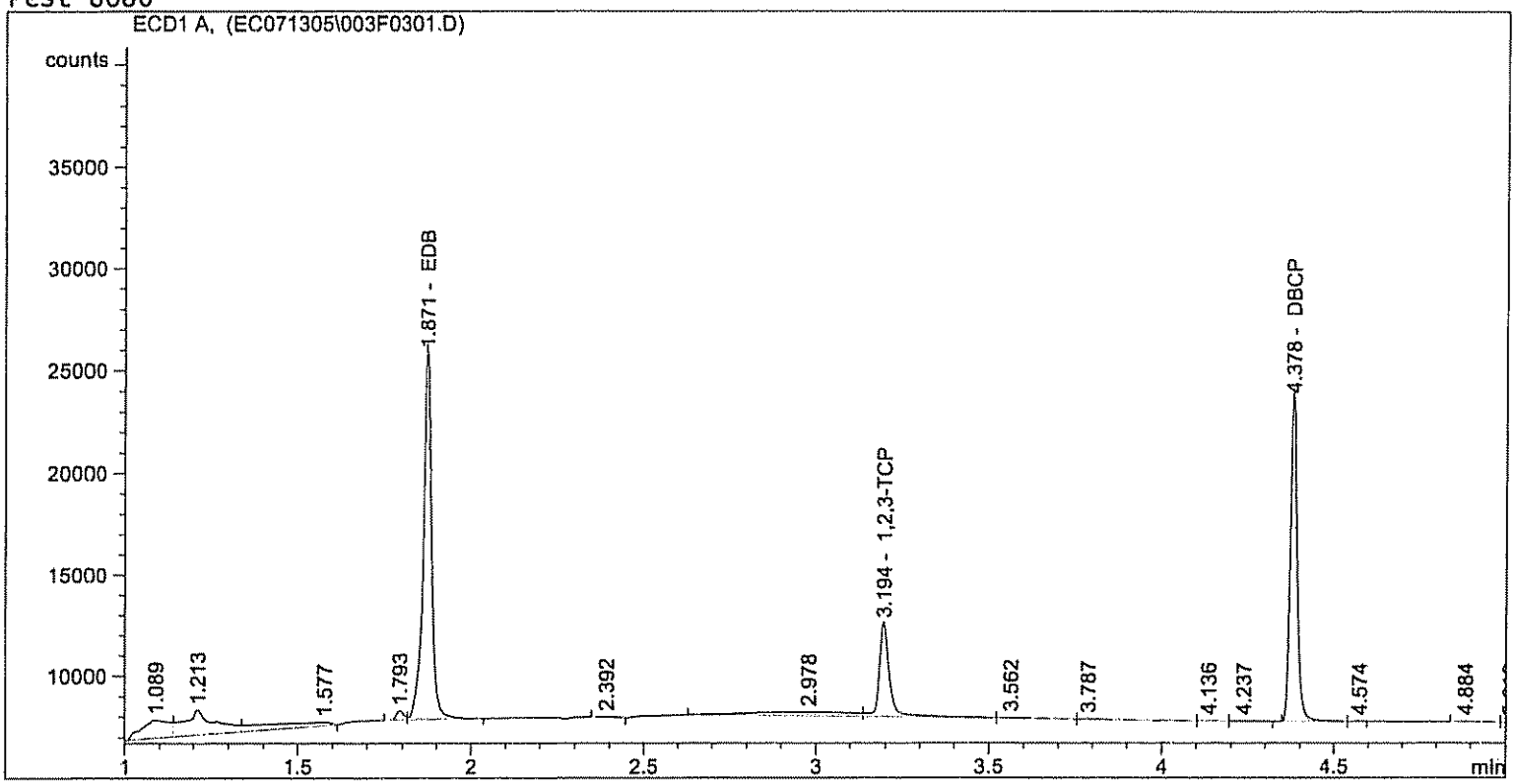
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.869	VP	5.46170e4	3.56700e-5	1.94819		EDB
3.192	VV	1.61549e4	1.44099e-4	2.32790		1,2,3-TCP
4.377	BP	3.94032e4	4.95954e-5	1.95422		DBCP

Totals : 6.23031

Results obtained with enhanced integrator!

*** End of Report ***

```
Injection Date  : 7/13/05 04:33:14 PM          Seq. Line :   3
Sample Name     : EDB 1                             Vial :   3
Acq. Operator   : CLP                               Inj :   1
                                              Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```



External Standard Report

```
Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000
```

Signal 1: ECD1 A,

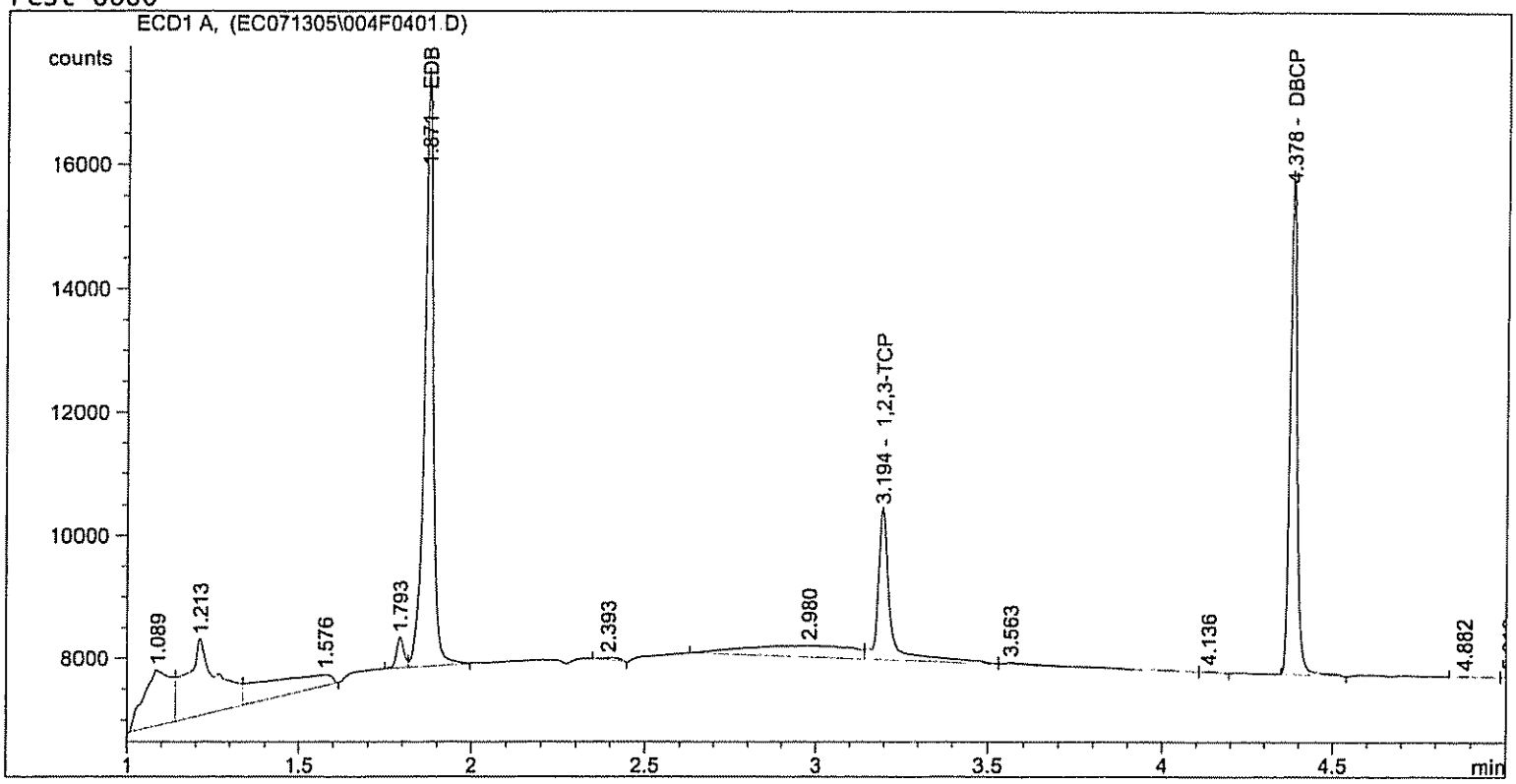
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.871	VV	3.15200e4	3.44560e-5	1.08606		EDB
3.194	VV	1.02450e4	1.17752e-4	1.20638		1,2,3-TCP
4.378	BP	2.25741e4	4.79227e-5	1.08181		DBCP

Totals : 3.37424

Results obtained with enhanced integrator!

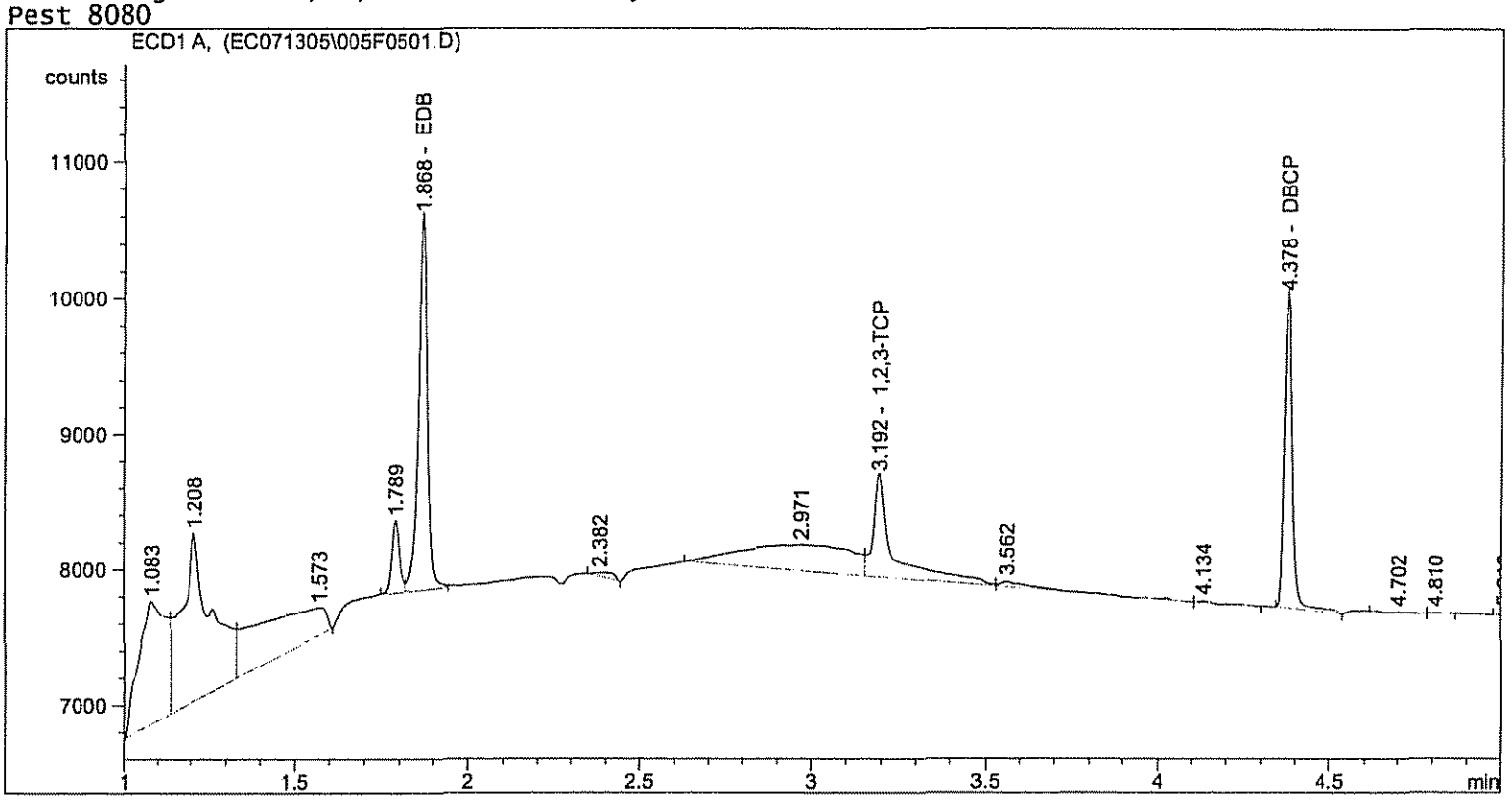
*** End of Report ***

```
==========================================================================
Injection Date  : 7/13/05 04:46:57 PM          Seq. Line :   4
Sample Name     : EDB 0.5                           Vial :   4
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [µg/L]
-------|------|----------|----------|----------|--|-----------------
  1.871 VB     1.68811e4  3.19666e-5 5.39634e-1     EDB
  3.194 VB     6232.15723 7.13784e-5 4.44841e-1     1,2,3-TCP
  4.378 BP     1.17849e4  4.43373e-5 5.22512e-1     DBCP

Totals :                                 1.50699

 Results obtained with enhanced integrator!
==========================================================================
                        *** End of Report ***
```

```
==========================================================================
Injection Date  : 7/13/05 05:00:45 PM          Seq. Line :   5
Sample Name     : EDB 0.1                           Vial :   5
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.868	VB	4843.92773	1.86468e-5	9.03238e-2		EDB
3.192	VV	2953.25317	0.00000	0.00000		1,2,3-TCP
4.378	BP	3554.90918	2.69701e-5	9.58763e-2		DBCP

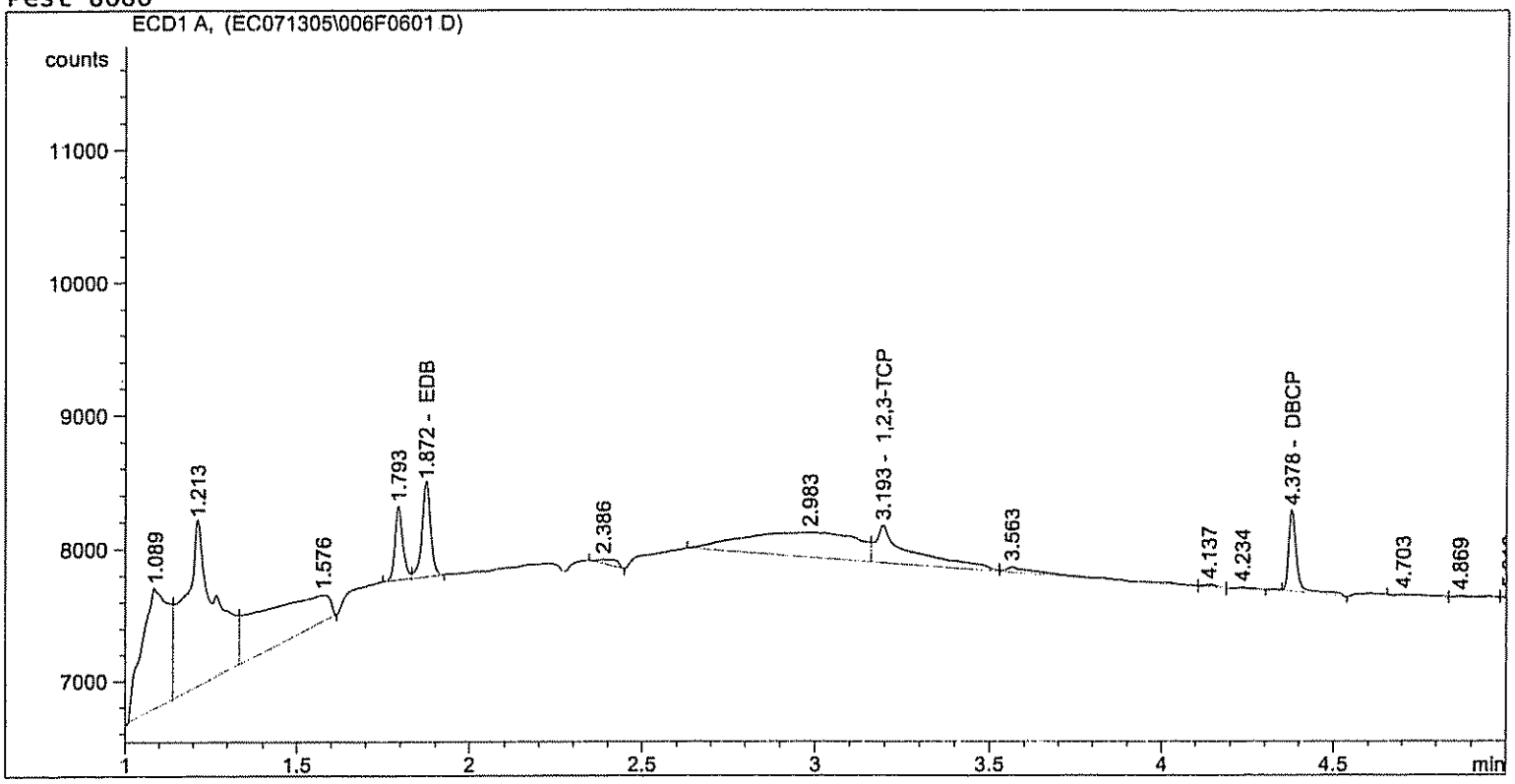
Totals : 1.86200e-1

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (1,2,3-TCP)

==========
*** End of Report ***

```
==========================================================================
Injection Date  : 7/13/05 05:14:36 PM          Seq. Line :   6
Sample Name     : EDB 0.02                          Vial :   6
Acq. Operator   : CLP                                Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071305\EDB.M
Last changed    : 7/15/05 09:54:28 AM by CLP
Pest 8080
```




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/15/05 09:53:48 AM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.872	VV	1239.91113	0.00000	0.00000		EDB
3.193	VV	1958.84326	0.00000	0.00000		1,2,3-TCP
4.378	BP	1041.51611	0.00000	0.00000		DBCP

Totals : 0.00000

Results obtained with enhanced integrator!
3 Warnings or Errors :

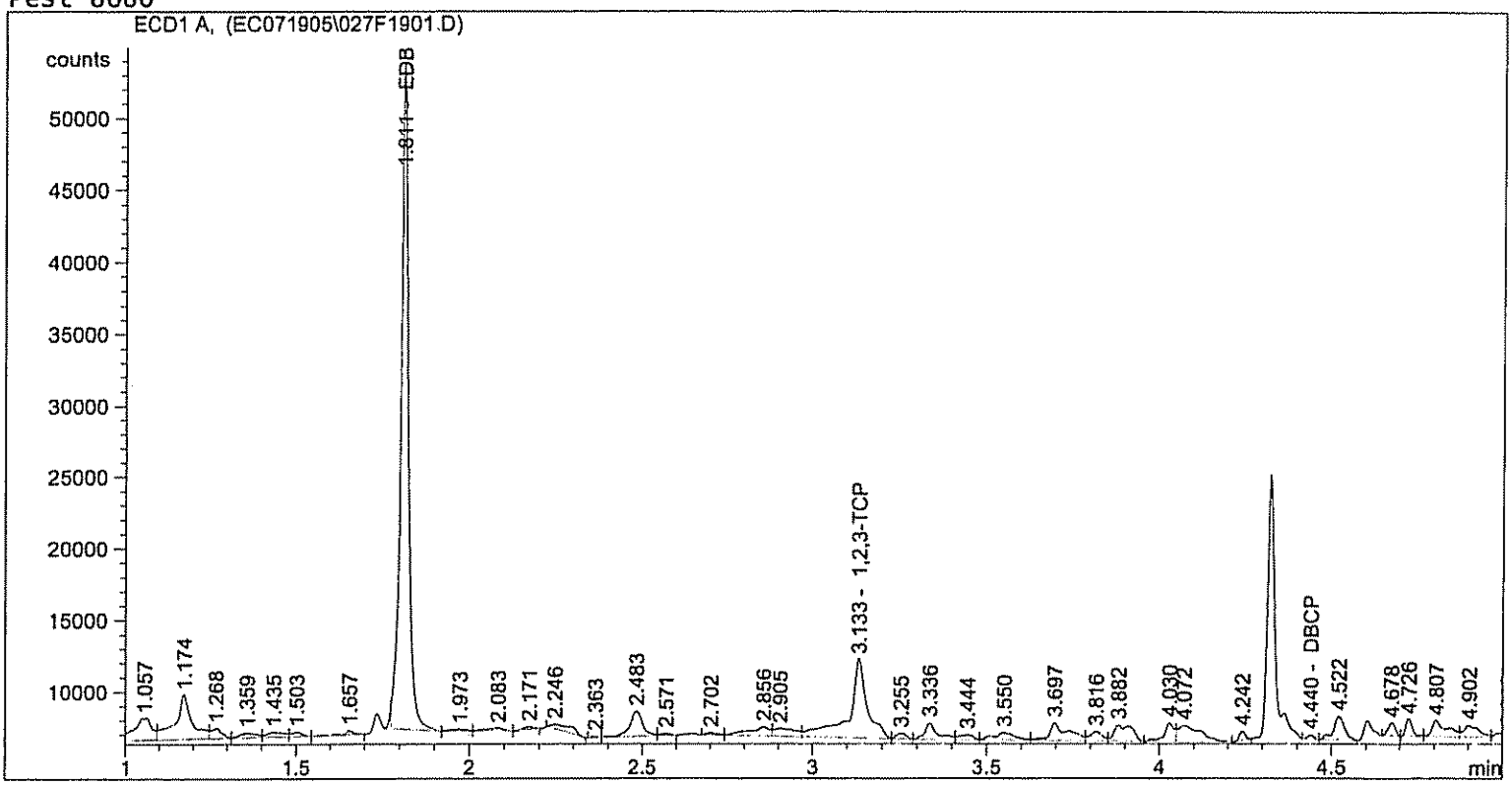
Warning : Negative results set to zero (cal. curve intercept), (EDB)
Warning : Negative results set to zero (cal. curve intercept), (1,2,3-TCP)
Warning : Negative results set to zero (cal. curve intercept), (DBCP)

==
*** End of Report ***

EDB QC, Blanks Raw Data

Injection Date : 7/19/05 07:31:36 PM Seq. Line : 19
Sample Name : 142922 x1 MS G349-108-4F x1MS Vial : 27
Acq. Operator : CLP Inj : 1
cl 9/23 Inj Volume : 2 µl

Acq. Method : C:\HPCHEM\1\METHODS\EDB.M
Last changed : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed : 7/20/05 10:32:24 AM by CLP
Pest 8080



External Standard Report

Sorted By : Signal
Calib. Data Modified : Tuesday, July 19, 2005 12:30:18 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.811	BP	7.38135e4	4.60372e-5	3.39817		EDB
3.133	VV	2.06792e4	1.30432e-4	2.69723		1,2,3-TCP
4.440	BP	346.23099	0.00000	0.00000		DBCP

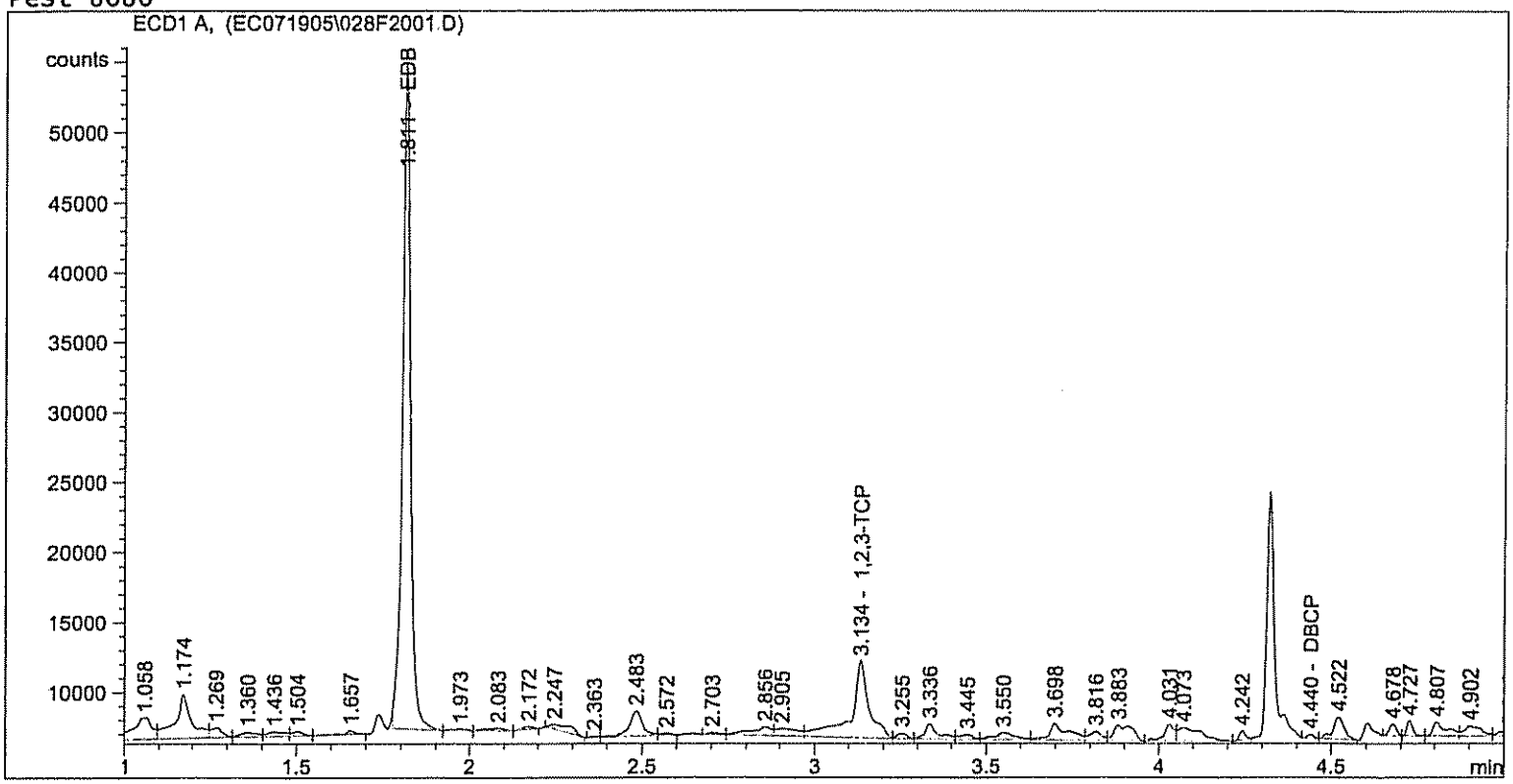
Totals : 6.09540

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (DBCP)

*** End of Report ***

```
==========================================================================
Injection Date  : 7/19/05 07:45:32 PM              Seq. Line :  20
Sample Name     : 142923 x1 MSD  G349-108-46 x1 MSD  Vial :  28
Acq. Operator   : CLP                                 Inj :   1
                                                  9/23 Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed    : 7/20/05 10:32:24 AM by CLP
Pest 8080
```




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      Tuesday, July 19, 2005 12:30:18 PM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.811	BP	7.68641e4	4.61205e-5	3.54501		EDB
3.134	VV	2.04721e4	1.30106e-4	2.66354		1,2,3-TCP
4.440	BV	341.93622	0.00000	0.00000		DBCP

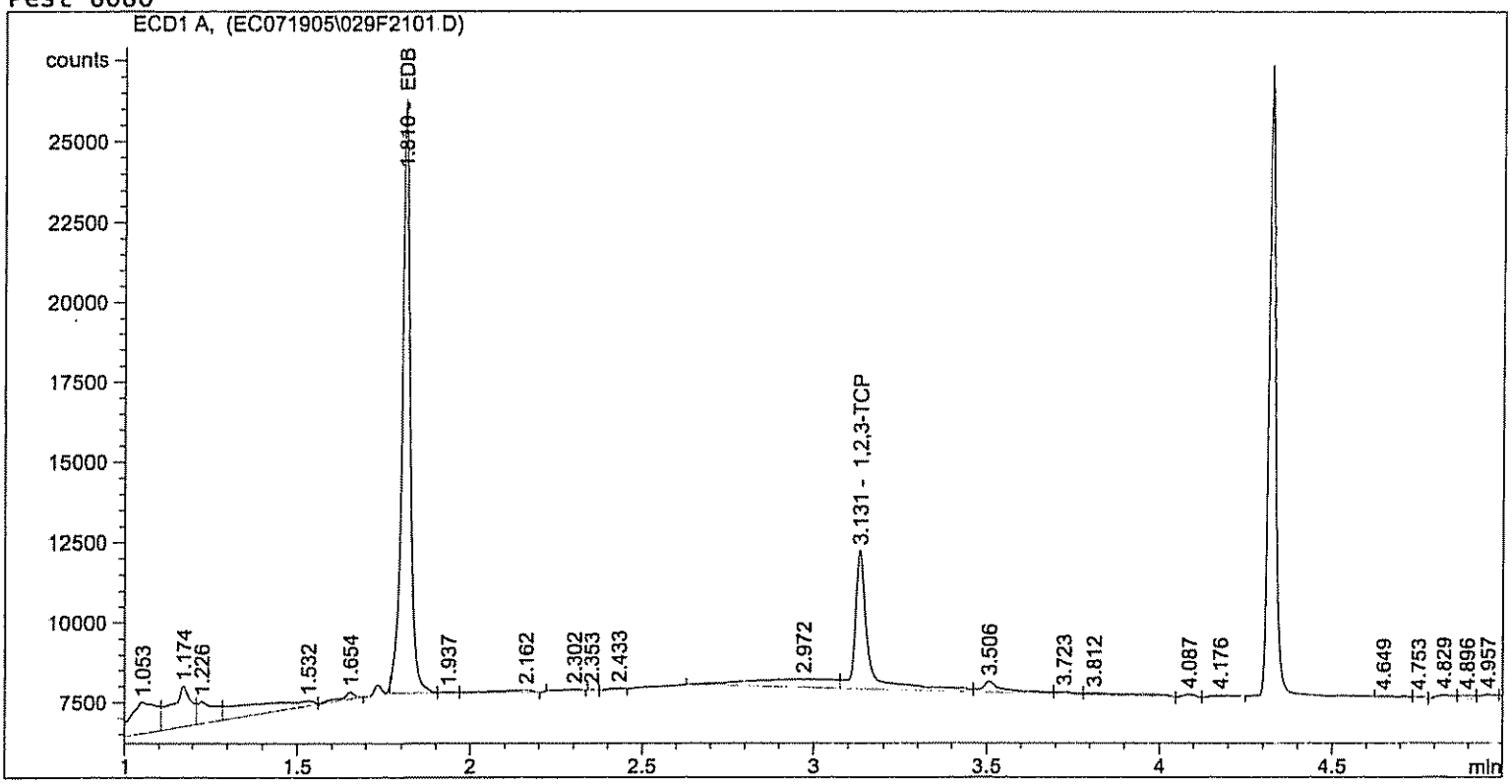
Totals : 6.20856

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Negative results set to zero (cal. curve intercept), (DBCP)

==========
*** End of Report ***

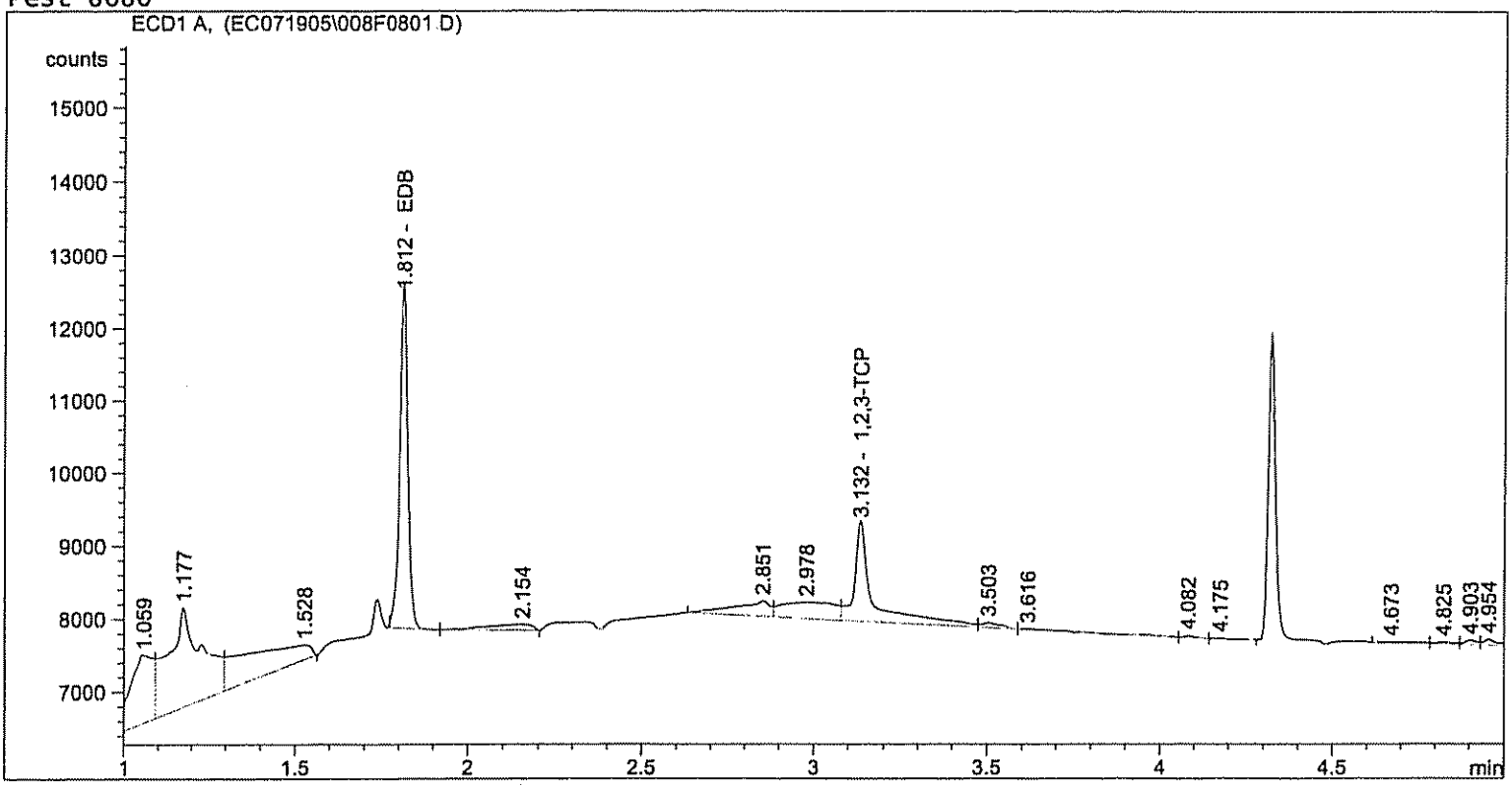
```
Injection Date  : 7/19/05 07:59:21 PM          Seq. Line :  21
Sample Name     : LCS3264                           Vial :  29
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed    : 7/20/05 10:32:24 AM by CLP
Pest 8080
```




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Tuesday, July 19, 2005 12:30:18 PM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: ECD1 A,

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]          counts*s                [µg/L]
-------|------|----------|----------|----------|--|-----------------
  1.810 BV     3.08593e4  4.31152e-5   1.33051     EDB
  3.131 VV     1.14947e4  1.04647e-4   1.20289     1,2,3-TCP
  4.381           -          -          -         DBCP

Totals :                               2.53339

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========================================================================
                        *** End of Report ***
```

EDB CVS Raw Data

```
Injection Date  : 7/19/05 11:04:58 AM          Seq. Line :   8
Sample Name     : QC 0.25                           Vial :   8
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed    : 7/20/05 10:32:24 AM by CLP
Pest 8080
```



External Standard Report

```
Sorted By              :      Signal
Calib. Data Modified   :      Tuesday, July 19, 2005 12:30:18 PM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.812	BP	7710.58545	2.80404e-5	2.16208e-1		EDB
3.132	VV	5071.30469	3.11119e-5	1.57778e-1		1,2,3-TCP
4.381		-	-	-		DBCP

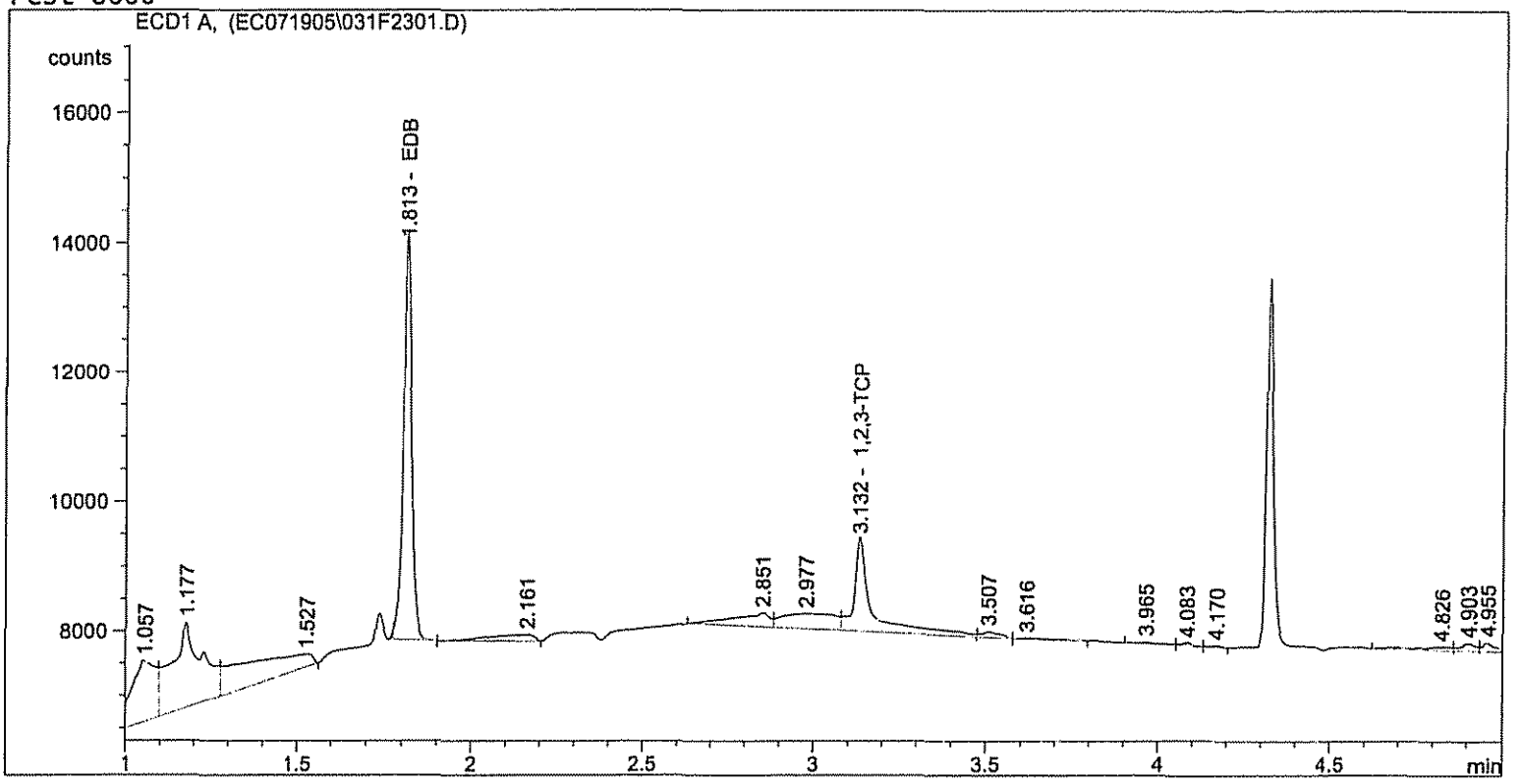
Totals : 3.73986e-1

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

```
Injection Date  : 7/19/05 08:26:58 PM          Seq. Line :  23
Sample Name     : QC 0.25                           Vial :  31
Acq. Operator   : CLP                               Inj :   1
                                             Inj Volume : 2 µl
Acq. Method     : C:\HPCHEM\1\METHODS\EDB.M
Last changed    : 4/13/05 08:08:22 AM by CLP
Analysis Method : C:\HPCHEM\1\DATA\EC071905\EDB.M
Last changed    : 7/20/05 10:32:24 AM by CLP
Pest 8080
```



External Standard Report

```
Sorted By              :      Signal
Calib. Data Modified   :      Tuesday, July 19, 2005 12:30:18 PM
Multiplier             :      1.0000
Dilution               :      1.0000

Signal 1: ECD1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [µg/L]	Grp	Name
1.813	BB	1.05374e4	3.34315e-5	3.52280e-1		EDB
3.132	VV	5381.18555	3.86898e-5	2.08197e-1		1,2,3-TCP
4.381		-	-	-		DBCP

Totals : 5.60477e-1

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

EDB Prep, Standard, Run Logs

Prep Report for Batch 3264 (8011/EDB/WATER) on 2005-07-19

Sample ID (GCCODE)	EXT	InitWt	InitVol	QCSpikeID	QCSpikeVol	FinalVol	HexaneLot	Analyst
G161-2069-1O (142914)		35.70				2	CO232	clp
G161-2069-2R (142915)		35.67				2	CO232	clp
G161-2070-1O (142916)		35.71				2	CO232	clp
G349-108-1E (142917)		35.78				2	CO232	clp
G349-108-1F (142918)	DUP	36.31				2	CO232	clp
G349-108-2E (142919)		35.93				2	CO232	clp
G349-108-3E (142920)		35.33				2	CO232	clp
G349-108-4E (142921)		36.25				2	CO232	clp
G349-108-4F (142922)	MS	35.56		EDBQC-SV03-W11B	140 uL	2	CO232	clp
G349-108-4G (142923)	MSD	35.56		EDBQC-SV03-W11B	140 uL	2	CO232	clp
G460-26-1L (142929)		35.00				2	CO232	clp
G460-26-2L (142930)		34.25				2	CO232	clp
G460-26-3N (142931)		34.06				2	CO232	clp
G460-26-4E (142932)		35.44				2	CO232	clp
G460-26-5E (142933)		34.79				2	CO232	clp
G460-26-6E (142934)		35.88				2	CO232	clp
G460-26-7E (142935)		34.28				2	CO232	clp
G460-26-8E (142936)		35.66				2	CO232	clp
G460-26-9E (142937)		34.18				2	CO232	clp
LCS3264	LCS	35.19		EDBQC-SV03-W11B	140 uL	2	CO232	clp
PB3264	PB	35.54				2	CO232	clp

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ec071905

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
007F0701.D	EDB 0.02	19-Jul-05, 10:51:09					CLP	
008F0801.D	QC 0.25	19-Jul-05, 11:04:58					CLP	
009F0101.D	PB3264	19-Jul-05, 15:23:04					CLP	
010F0201.D	G161-2069-1O x1	19-Jul-05, 15:36:41					CLP	
011F0301.D	G161-2069-2R x1	19-Jul-05, 15:50:26					CLP	
012F0401.D	G161-2070-1O x1	19-Jul-05, 16:04:13					CLP	
013F0501.D	G349-108-1E x1	19-Jul-05, 16:17:58					CLP	
014F0601.D	G349-108-2E x1	19-Jul-05, 16:31:45					CLP	
015F0701.D	G349-108-3E x1	19-Jul-05, 16:45:36					CLP	
016F0801.D	G349-108-4E x1	19-Jul-05, 16:59:21					CLP	
017F0901.D	G460-26-1L x1	19-Jul-05, 17:13:32					CLP	
018F1001.D	G460-26-2L x1	19-Jul-05, 17:27:19					CLP	
019F1101.D	G460-26-3N x1	19-Jul-05, 17:41:10					CLP	
020F1201.D	G460-26-4E x1	19-Jul-05, 17:54:51					CLP	
021F1301.D	G460-26-5E x1	19-Jul-05, 18:08:39					CLP	
022F1401.D	G460-26-6E x1	19-Jul-05, 18:22:20					CLP	
023F1501.D	G460-26-7E x1	19-Jul-05, 18:36:08					CLP	
024F1601.D	G460-26-8E x1	19-Jul-05, 18:49:57					CLP	
025F1701.D	G460-26-9E x1	19-Jul-05, 19:03:47					CLP	
026F1801.D	QC 0.25	19-Jul-05, 19:17:39					CLP	
027F1901.D	G349-108-4F x1 MS	19-Jul-05, 19:31:36	cid= 142922				CLP	
028F2001.D	G349-108-4G x1 MSD	19-Jul-05, 19:45:32	cid= 142923				CLP	
029F2101.D	LCS3264	19-Jul-05, 19:59:21					CLP	
030F2201.D	G349-108-1F x1 DUP	19-Jul-05, 20:13:12	cid= 142918				CLP	

Analyst: Page Number

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ec092105

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	Blk	21-Sep-05, 09:17:12					DCS	
002F0201.D	G122-2288-7D 2000	21-Sep-05, 09:35:56	cid= 1016-1260				DCS	
003F0301.D	G122-2288-7D 1000	21-Sep-05, 09:54:40	cid= 1016-1260				DCS	
004F0401.D	G122-2288-7D 500	21-Sep-05, 10:13:26	cid= 1016-1260				DCS	
005F0501.D	G122-2288-7D 250	21-Sep-05, 10:32:07	cid= 1016-1260				DCS	
006F0601.D	G122-2288-7D 100	21-Sep-05, 10:50:53	cid= 1016-1260				DCS	
007F0701.D	cvs-PCB-1000	21-Sep-05, 11:09:37					DCS	
008F0101.D	G546-48-11K x1	21-Sep-05, 14:52:24					DCS	
009F0201.D	PB3660	21-Sep-05, 15:11:11					DCS	
010F0301.D	G442-343-1C x1	21-Sep-05, 15:29:53					DCS	
011F0401.D	G442-343-2C x1	21-Sep-05, 15:48:35					DCS	
012F0501.D	G442-344-1C x1	21-Sep-05, 16:07:20					DCS	
013F0601.D	G442-344-2C x1	21-Sep-05, 16:26:04					DCS	
014F0701.D	G442-344-3C x1	21-Sep-05, 16:44:50					DCS	
015F0801.D	G442-344-3F x1 MS	21-Sep-05, 17:03:33	cid= 161464				DCS	
016F0901.D	G442-344-3G x1 MSD	21-Sep-05, 17:22:16	cid= 161465				DCS	
017F1001.D	LCS3660	21-Sep-05, 17:41:00					DCS	
018F1101.D	QC-Ref3660	21-Sep-05, 17:59:46					DCS	
019F1201.D	cvs-PCB-1000	21-Sep-05, 18:18:25					DCS	

Analyst:

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7N	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/05	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Internal Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH2Cl2		6/29/06	6/29/05	DC
D	ECD03-R6O	8/25/05	EDB Std	17.5ul	50mL	200ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400ul	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DC
F	ECD03-W12Q	↓	Frac	400ul	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7T~~ W175	↓	EPH Surr	~~2mL~~ 1mL	↓	400ug/mL	↓	↓	↓	↓	↓	↓
H	SV03-R7T	7/21/06	1254 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10ul	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400ul	10mL	200ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500ul	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50ul	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	~~ECD03~~ SV03-R6U	1/24/06	Herb ICAL Std	50ul	25mL	200ug/mL	400 ug/L	Hexane		1/25	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	2000ug/mL	4000 ug/L	↓		↓	↓	↓
Q	ECD03-R6U	1/19/06				20000ug/mL	40000 ug/L					
R	ECD03-R6R	12/29/05				200 ug/mL	400 ug/L					
S	ECD03-R7O	4/21/06	Herb CCAL Std	50ul	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7W	8/9/06	8082/8081 IS	500ul	10mL	200ug/mL	10 ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20ul	↓	2000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200ul	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	–	—	8080 Surr	10ul	↓	2000ug/mL	400 ug/L	↓		↓	↓	↓

Comments: _____

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: _____

Working

Page: Wile

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03 WBA	1/06	PCP Matrix Spike	10 ml	10 ml	200 ug/ml	2 ug/mL	MeOH		1/06	1/8/05	CT
B	TPH-RSP	–	Frac 2 SN 004	2mL	20 ml	100,000 ug/ml	10,000 ug/ml	Hex		8/31/06	8/31/05	DCJ
C	TPH-RSR	–	Frac 2 Fac 2	↓	↓	↓	↓	↓		↓	↓	↓
D	ECD03-RS B	5/12	EPH Aliphatic	500ul	20mL	1000 ug/mL	4 ug/mL	Hex		9/13/06	9/13/05	DCJ
E	ECD03-RS C	12/06	EPH Aromatic	500ul	↓	1000 ug/ml	↓	↓	Aromatic EPH	↓	↓	↓
F	ECD03-W16 B	8/31/06	Frac W16 B, C	↓	↓	10,000 ug/mL	400 ug/mL	↓	↓	↓	↓	↓
G	EHSTDSUB-W17K	7/11/06	EPH SQ	2mL	↓	400 ug/mL	↓ 40 ug/mL	↓	↓	↓	↓	↓
H	ECD03-WBA	1/06	PCP Matrix Spike	10 ml	10 ml	500 ug/ml	2 ug/mL	MeOH		1/06	1/18/05	CT
I	ECD-R7X	8/9/06	8081 ICAL Std	50ml	50ml	200 ug/ml	200 ug/L	Hexane		8/06	9/22/05	CT
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												

Comments: _____

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

EPH Sample Raw Data

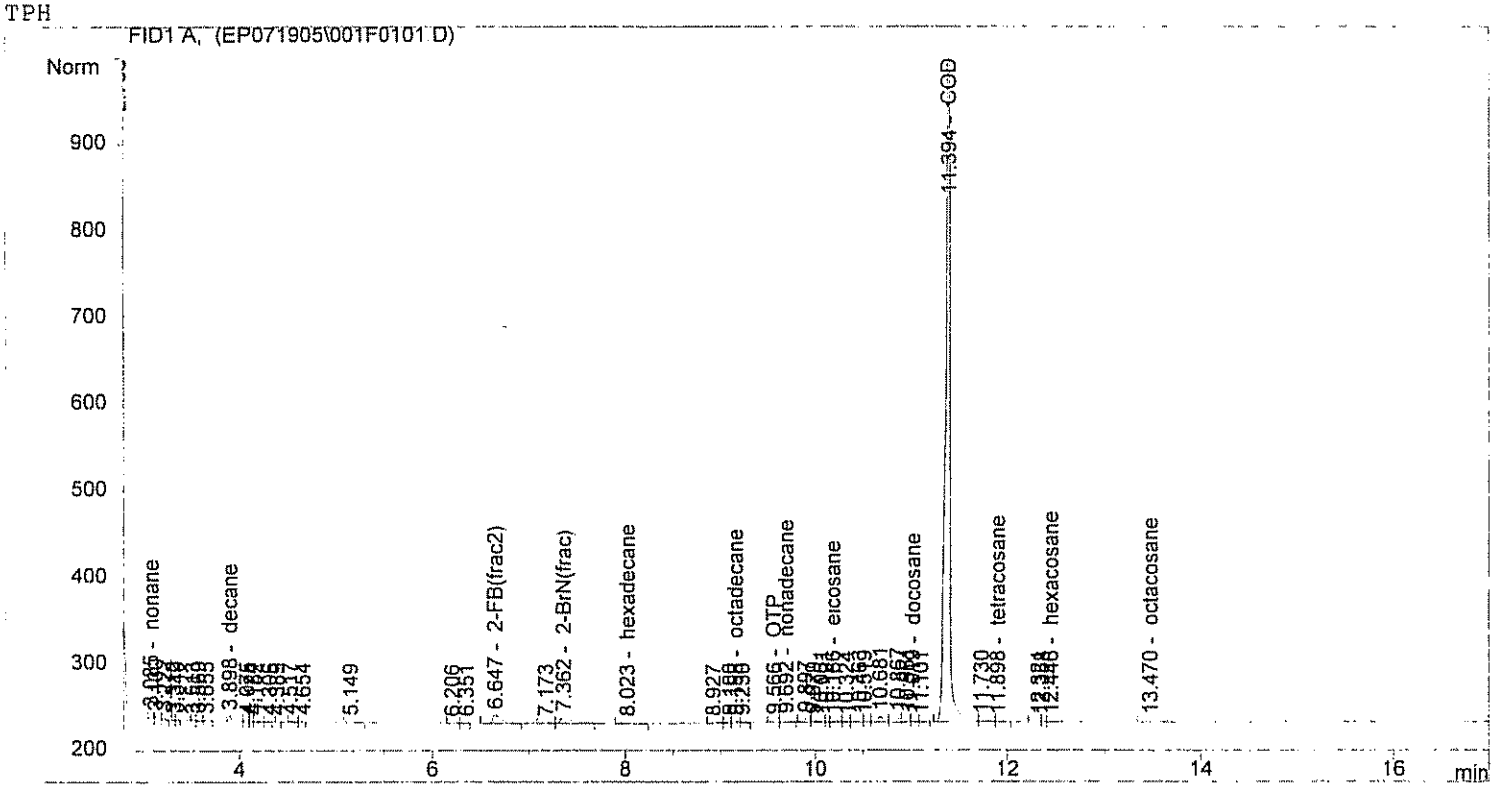
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP071905\001F0101.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 1
Sample Name	: G161-2069-1M x1 K	Injection Number	: 1
Run Time Bar Code	: 141689	Sequence Line	: 1
Acquired on	: 19 Jul 05 4:13:39 PM	Instrument Method	: PROEPH.M
Report Created on	: 20 Jul 2005 8:45:33 AM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 8 Jun 2005 10:16:23 AM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP071905\001F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.085	7.49458	VV	0.01	1	9.142e-6	nonane
3.898	18.81200	VV	0.04	2	2.295e-5	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.647	60.22256	VB	0.08	4	7.346e-5	2-FB(frac2)
6.898	0.00000	XX	0.00	5	0.00000	tetradecane
7.362	58.08731	VP	0.09	6	7.086e-5	2-BrN(frac)
8.023	9.52339	PP	0.10	7	1.162e-5	hexadecane
9.158	9.13659	VV	0.06	8	1.115e-5	octadecane
9.566	8.39646	BV	0.05	9	1.024e-5	OTP
9.692	14.30393	VB	0.06	10	1.745e-5	nonadecane
10.186	10.27833	VV	0.06	11	1.254e-5	eicosane
11.019	10.68283	VV	0.07	12	1.303e-5	docosane
11.394	2785.35181	BB	0.03	13	0.00340	COD
11.898	5.05103	VB	0.05	14	6.162e-6	tetracosane
12.446	9.94198	VV	0.08	15	1.213e-5	hexacosane
13.470	16.98348	BB	0.11	16	2.072e-5	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.215	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.059	4.10788	BP	0.04	1	5.011e-6	* uncalibrated *
0.554	126.90376	PV	0.02	2	0.00015	* uncalibrated *
0.591	61.31459	VV	0.02	3	7.480e-5	* uncalibrated *
0.728	1.69276e6	VVS	0.04	4	2.06494	* uncalibrated *
1.825	7.92231e7	VVS	0.97	5	96.64165	* uncalibrated *
1.887	9.20562e5	VVS	0.01	6	1.12296	* uncalibrated *
1.964	1.43757e4	VVS	0.04	7	0.01754	* uncalibrated *
2.035	3.38348e4	VVS	0.14	8	0.04127	* uncalibrated *
2.170	6924.17139	VVS	0.02	9	0.00845	* uncalibrated *
2.217	1.13276e4	VVS	0.04	10	0.01382	* uncalibrated *
2.269	6845.80420	VVS	0.02	11	0.00835	* uncalibrated *
2.314	7749.16699	VVS	0.04	12	0.00945	* uncalibrated *
2.347	7277.26172	VVS	0.03	13	0.00888	* uncalibrated *
2.398	6667.79102	VVS	0.02	14	0.00813	* uncalibrated *
2.438	9237.81543	VVS	0.04	15	0.01127	* uncalibrated *
2.502	8434.41016	VVS	0.04	16	0.01029	* uncalibrated *
2.564	6286.79004	VVS	0.03	17	0.00767	* uncalibrated *
2.608	7631.73242	VVS	0.04	18	0.00931	* uncalibrated *
2.661	4325.29346	VVS	0.03	19	0.00528	* uncalibrated *
2.704	2912.54248	VVS	0.04	20	0.00355	* uncalibrated *
2.758	2411.38086	VBAS	0.04	21	0.00294	* uncalibrated *
3.130	5.95867	VV	0.02	22	7.269e-6	* uncalibrated *
3.222	5.72750	VP	0.02	23	6.987e-6	* uncalibrated *
3.312	1.57186	VV	0.01	24	1.917e-6	* uncalibrated *
3.349	1.76100	VV	0.02	25	2.148e-6	* uncalibrated *

```
==========================================================================
Injection Date  : 7/19/2005 4:13:39 PM          Seq. Line :   1
Sample Name     : 141689 x1 K                    Location : Vial 1
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071905.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.085	VV	0.0179	7.49458	9.142e-6	nonane
2	3.898	VV	0.0425	18.81200	2.295e-5	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.647	VB	0.0820	60.22256	7.346e-5	2-FB(frac2)
5	6.898		0.0000	0.00000	0.00000	tetradecane
6	7.362	VP	0.0970	58.08731	7.086e-5	2-BrN(frac)
7	8.023	PP	0.1074	9.52339	1.162e-5	hexadecane
8	9.158	VV	0.0634	9.13659	1.115e-5	octadecane
9	9.566	BV	0.0570	8.39646	1.024e-5	OTP
10	9.692	VB	0.0663	14.30393	1.745e-5	nonadecane
11	10.186	VV	0.0697	10.27833	1.254e-5	eicosane
12	11.019	VV	0.0705	10.68283	1.303e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.394	BB	0.0360	2785.35181	0.00340	COD
14	11.898	VB	0.0567	5.05103	6.162e-6	tetracosane
15	12.446	VV	0.0804	9.94198	1.213e-5	hexacosane
16	13.470	BB	0.1177	16.98348	2.072e-5	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3024.26628 3.689e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.059	BP	0.0454	4.10788	5.011e-6	?
2	0.554	PV	0.0212	126.90376	0.00015	?
3	0.591	VV	0.0233	61.31459	7.480e-5	?
4	0.728	VV S	0.0415	1.69276e6	2.06494	?
5	1.825	VV S	0.9759	7.92231e7	96.64165	?
6	1.887	VV S	0.0189	9.20562e5	1.12296	?
7	1.964	VV S	0.0498	1.43757e4	0.01754	?
8	2.035	VV S	0.1470	3.38348e4	0.04127	?
9	2.170	VV S	0.0241	6924.17139	0.00845	?
10	2.217	VV S	0.0498	1.13276e4	0.01382	?
11	2.269	VV S	0.0287	6845.80420	0.00835	?
12	2.314	VV S	0.0419	7749.16699	0.00945	?
13	2.347	VV S	0.0372	7277.26172	0.00888	?
14	2.398	VV S	0.0276	6667.79102	0.00813	?
15	2.438	VV S	0.0494	9237.81543	0.01127	?
16	2.502	VV S	0.0404	8434.41016	0.01029	?
17	2.564	VV S	0.0346	6286.79004	0.00767	?
18	2.608	VV S	0.0423	7631.73242	0.00931	?
19	2.661	VV S	0.0348	4325.29346	0.00528	?
20	2.704	VV S	0.0407	2912.54248	0.00355	?
21	2.758	VBAS	0.0414	2411.38086	0.00294	?
22	3.130	VV	0.0293	5.95867	7.269e-6	?
23	3.222	VP	0.0288	5.72750	6.987e-6	?
24	3.312	VV	0.0193	1.57186	1.917e-6	?
25	3.349	VV	0.0210	1.76100	2.148e-6	?
26	3.513	VV	0.0313	2.18231	2.662e-6	?
27	3.569	VV	0.0386	5.46315	6.664e-6	?
28	3.655	VV	0.0375	4.47724	5.462e-6	?
29	4.075	VV	0.0390	4.28767	5.230e-6	?
30	4.124	VV	0.0348	3.15592	3.850e-6	?
31	4.152	VP	0.0334	3.37103	4.112e-6	?
32	4.306	VV	0.0283	2.71578	3.313e-6	?
33	4.389	VV	0.0310	2.42693	2.961e-6	?
34	4.517	VB	0.0287	3.72120	4.539e-6	?
35	4.654	BV	0.0245	2.89317	3.529e-6	?
36	5.149	PP	0.0572	5.41240	6.602e-6	?
37	6.206	PV	0.0578	4.36270	5.322e-6	?
38	6.351	VP	0.0404	4.66772	5.694e-6	?
39	7.173	BV	0.0753	7.24900	8.843e-6	?
40	8.927	VV	0.0840	7.32993	8.942e-6	?
41	9.100	VV	0.0391	5.35204	6.529e-6	?
42	9.230	VV	0.0422	5.29052	6.454e-6	?
43	9.897	BV	0.0599	19.29529	2.354e-5	?
44	9.979	VV	0.0379	6.88788	8.402e-6	?
45	10.061	VV	0.0692	10.58320	1.291e-5	?
46	10.121	VV	0.0323	3.88540	4.740e-6	?
47	10.324	VV	0.0555	5.50901	6.720e-6	?
48	10.463	VV	0.0638	12.51222	1.526e-5	?
49	10.519	VV	0.0471	8.43800	1.029e-5	?
50	10.681	VV	0.0747	34.53106	4.212e-5	?
51	10.867	VV	0.0661	25.54308	3.116e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	10.961	VV	0.0585	19.40355	2.367e-5	?
53	11.101	VB	0.0687	10.02199	1.223e-5	?
54	11.730	BV	0.0935	14.31125	1.746e-5	?
55	12.321	PV	0.0514	6.66992	8.136e-6	?
56	12.358	VV	0.0377	4.70994	5.746e-6	?

Uncalib. totals : 8.19731e7 99.9963

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

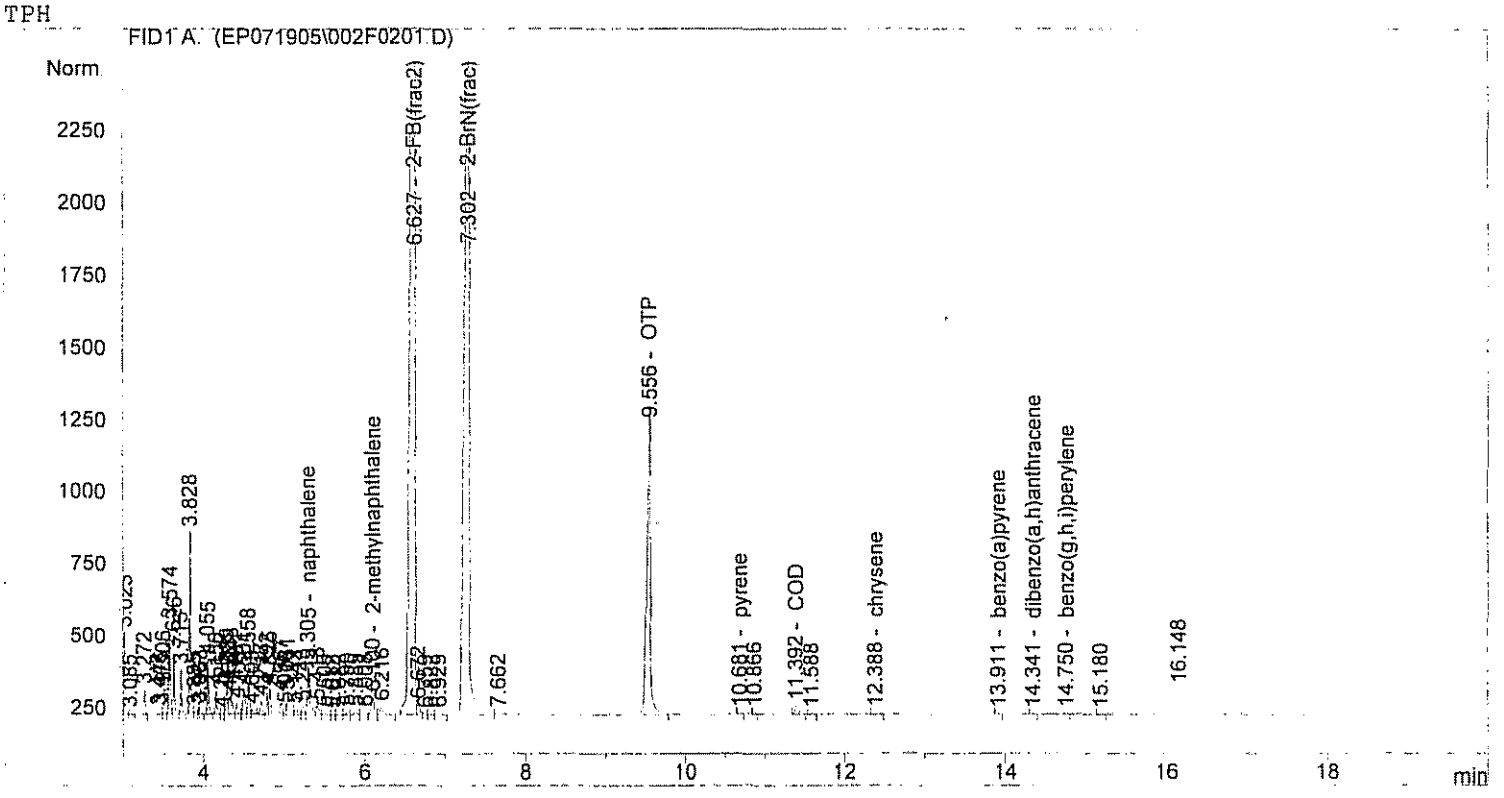
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP071905\002F0201.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 2
Sample Name	: G161-2069-1M x1 R	Injection Number	: 1
Run Time Bar Code	: 141689	Sequence Line	: 2
Acquired on	: 19 Jul 05 4:40:40 PM	Instrument Method	: PROEPH.M
Report Created on	: 20 Jul 2005 8:45:41 AM	Analysis Method	: EPH-R_F.M
Last Recalib on	: 14 Jul 2005 2:22:40 PM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP071905\002F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.305	371.72015	VV	0.03	1	0.00045	naphthalene
6.100	166.66452	VV	0.04	2	0.00020	2-methylnaphthalene
6.627	1.42988e4	BV	0.05	3	0.01747	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.302	1.01219e4	PB	0.05	5	0.01237	2-BrN(frac)
7.362	0.00000	XX	0.00	6	0.00000	acenaphthene
7.920	0.00000	XX	0.00	7	0.00000	fluorene
9.090	0.00000	XX	0.00	8	0.00000	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.556	3012.77612	BB	0.04	10	0.00368	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.681	4.61196	BP	0.02	12	5.634e-6	pyrene
11.392	91.73110	BB	0.04	13	0.00011	COD
12.039	0.00000	XX	0.00	14	0.00000	benzo(a)anthracene
12.388	18.12232	PP	0.05	15	2.214e-5	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.270	0.00000	XX	0.00	17	0.00000	benzo(k)fluoranthene
13.911	4.94842	BB	0.03	18	6.045e-6	benzo(a)pyrene
14.341	4.05543	BB	0.03	19	4.954e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.750	3.91985	BB	0.03	21	4.789e-6	benzo(g,h,i)perylene
0.555	195.83760	PV	0.02	1	0.00024	* uncalibrated *
0.591	85.16798	VV	0.02	2	0.00010	* uncalibrated *
0.718	1.49352e6	VVS	0.05	3	1.82461	* uncalibrated *
1.804	7.92769e7	VVS	0.97	4	96.85168	* uncalibrated *
1.882	8.98854e5	VVS	0.01	5	1.09812	* uncalibrated *
1.939	1.28405e4	PVX	0.20	6	0.01569	* uncalibrated *
1.971	7433.13867	VVS	0.01	7	0.00908	* uncalibrated *
2.022	1.67768e4	VVS	0.06	8	0.02050	* uncalibrated *
2.090	1.52082e4	VVS	0.06	9	0.01858	* uncalibrated *
2.155	1.12845e4	VVS	0.03	10	0.01379	* uncalibrated *
2.209	1.12510e4	VVS	0.04	11	0.01375	* uncalibrated *
2.257	9216.10547	VVS	0.03	12	0.01126	* uncalibrated *
2.307	7975.54443	VVS	0.02	13	0.00974	* uncalibrated *
2.347	6811.64600	VVS	0.03	14	0.00832	* uncalibrated *
2.389	6038.03857	VVS	0.02	15	0.00738	* uncalibrated *
2.429	7314.19775	VVS	0.03	16	0.00894	* uncalibrated *
2.474	8285.43457	VVS	0.03	17	0.01012	* uncalibrated *
2.532	7359.35889	VVS	0.03	18	0.00899	* uncalibrated *
2.575	7192.55322	VVS	0.03	19	0.00879	* uncalibrated *
2.624	1.24158e4	VVS	0.07	20	0.01517	* uncalibrated *
2.746	2346.20264	VVS	0.03	21	0.00287	* uncalibrated *
2.784	1259.72363	VBS	0.02	22	0.00154	* uncalibrated *

```
==========================================================================
Injection Date  : 7/19/2005 4:40:40 PM          Seq. Line :   2
Sample Name     : 141689 x1 R                    Location : Vial 2
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071905.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.305	VV	0.0308	371.72015	0.00045	naphthalene
2	6.100	VV	0.0450	166.66452	0.00020	2-methylnaphthalene
3	6.627	BV	0.0501	1.42988e4	0.01747	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.302	PB	0.0523	1.01219e4	0.01237	2-BrN(frac)
6	7.362		0.0000	0.00000	0.00000	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.090		0.0000	0.00000	0.00000	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.556	BB	0.0417	3012.77612	0.00368	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.681	BP	0.0299	4.61196	5.634e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	BB	0.0459	91.73110	0.00011	COD
14	12.039		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.388	PP	0.0520	18.12232	2.214e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.911	BB	0.0335	4.94842	6.045e-6	benzo(a)pyrene
19	14.341	BB	0.0331	4.05543	4.954e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.750	BB	0.0307	3.91985	4.789e-6	benzo(g,h,i)perylene

Totals : 2.80992e4 3.433e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0214	195.83760	0.00024	?
2	0.591	VV	0.0227	85.16798	0.00010	?
3	0.718	VV S	0.0504	1.49352e6	1.82461	?
4	1.804	VV S	0.9738	7.92769e7	96.85168	?
5	1.882	VV S	0.0192	8.98854e5	1.09812	?
6	1.939	PV X	0.2061	1.28405e4	0.01569	?
7	1.971	VV S	0.0180	7433.13867	0.00908	?
8	2.022	VV S	0.0659	1.67768e4	0.02050	?
9	2.090	VV S	0.0610	1.52082e4	0.01858	?
10	2.155	VV S	0.0354	1.12845e4	0.01379	?
11	2.209	VV S	0.0414	1.12510e4	0.01375	?
12	2.257	VV S	0.0319	9216.10547	0.01126	?
13	2.307	VV S	0.0299	7975.54443	0.00974	?
14	2.347	VV S	0.0339	6811.64600	0.00832	?
15	2.389	VV S	0.0266	6038.03857	0.00738	?
16	2.429	VV S	0.0323	7314.19775	0.00894	?
17	2.474	VV S	0.0397	8285.43457	0.01012	?
18	2.532	VV S	0.0355	7359.35889	0.00899	?
19	2.575	VV S	0.0386	7192.55322	0.00879	?
20	2.624	VV S	0.0734	1.24158e4	0.01517	?
21	2.746	VV S	0.0328	2346.20264	0.00287	?
22	2.784	VB S	0.0235	1259.72363	0.00154	?
23	2.818	BV X	0.0132	43.89943	5.363e-5	?
24	2.848	VB X	0.0143	584.66528	0.00071	?
25	3.023	BV	0.0147	254.89986	0.00031	?
26	3.085	VB	0.0304	5.48638	6.703e-6	?
27	3.272	BB	0.0151	79.83163	9.753e-5	?
28	3.443	PV	0.0152	10.72323	1.310e-5	?
29	3.475	VV	0.0137	15.07780	1.842e-5	?
30	3.506	VV	0.0161	92.72533	0.00011	?
31	3.574	VV	0.0205	413.95142	0.00051	?
32	3.626	VV	0.0164	218.93738	0.00027	?
33	3.715	VB	0.0165	163.66376	0.00020	?
34	3.828	BV	0.0173	661.82422	0.00081	?
35	3.885	VV	0.0284	22.61556	2.763e-5	?
36	3.937	VV	0.0174	19.89362	2.430e-5	?
37	3.963	VB	0.0194	27.59416	3.371e-5	?
38	4.055	BB	0.0187	220.41827	0.00027	?
39	4.156	BV	0.0175	93.77290	0.00011	?
40	4.226	VV	0.0181	4.79628	5.860e-6	?
41	4.289	VV	0.0218	137.04791	0.00017	?
42	4.323	VV	0.0200	80.39091	9.821e-5	?
43	4.348	VV	0.0201	134.93599	0.00016	?
44	4.410	VV	0.0191	46.24965	5.650e-5	?
45	4.501	VV	0.0307	159.19307	0.00019	?
46	4.558	VV	0.0197	207.17679	0.00025	?
47	4.603	VV	0.0231	24.09837	2.944e-5	?
48	4.717	VV	0.0255	80.59161	9.846e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	4.792	VV	0.0188	94.34635	0.00012	?
50	4.825	VB	0.0203	115.15078	0.00014	?
51	4.967	PV	0.0214	86.05628	0.00011	?
52	5.016	VV	0.0248	33.11506	4.046e-5	?
53	5.051	VV	0.0413	214.97827	0.00026	?
54	5.143	VV	0.0469	68.57520	8.378e-5	?
55	5.243	VV	0.0265	48.38160	5.911e-5	?
56	5.418	VV	0.0361	76.27984	9.319e-5	?
57	5.506	VP	0.0394	20.57838	2.514e-5	?
58	5.612	VV	0.0285	3.81539	4.661e-6	?
59	5.682	VV	0.0395	21.65424	2.645e-5	?
60	5.790	VV	0.0348	27.91419	3.410e-5	?
61	5.889	VV	0.0418	29.20407	3.568e-5	?
62	6.008	VV	0.0479	29.06232	3.551e-5	?
63	6.216	VP	0.0424	90.82346	0.00011	?
64	6.672	VV	0.0320	86.29160	0.00011	?
65	6.759	VV	0.0440	19.20767	2.347e-5	?
66	6.822	VV	0.0474	21.71003	2.652e-5	?
67	6.929	VB	0.0419	19.95026	2.437e-5	?
68	7.662	BB	0.0690	26.27384	3.210e-5	?
69	10.866	BB	0.0318	4.31501	5.272e-6	?
70	11.588	PP	0.0380	4.64299	5.672e-6	?
71	15.180	BB	0.0416	4.56496	5.577e-6	?
72	16.148	BB	0.0529	310.69986	0.00038	?

Uncalib. totals : 8.18259e7 99.9657

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

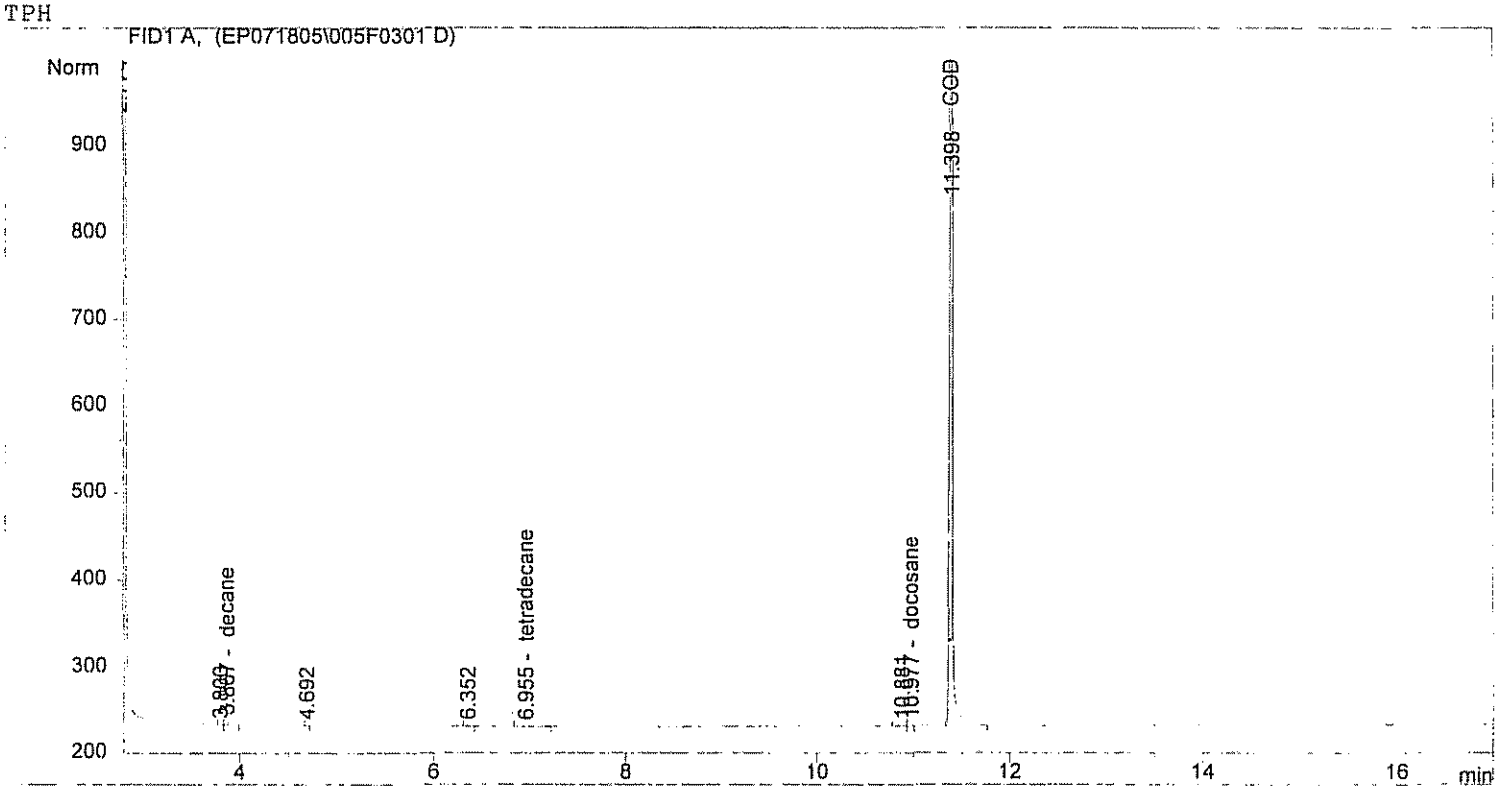
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP071805\005F0301.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 5
Sample Name	: G161-2069-2M x1 K	Injection Number	: 1
Run Time Bar Code	: 141690	Sequence Line	: 3
Acquired on	: 18 Jul 05 4:09:21 PM	Instrument Method	: PROEPH.M
Report Created on	: 19 Jul 2005 3:19:48 PM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 8 Jun 2005 10:16:23 AM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP071805\005F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.072	0.00000	XX	0.00	1	0.00000	nonane
3.867	12.27076	VB	0.03	2	2.002e-5	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.955	16.19289	PV	0.14	5	2.642e-5	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.570	0.00000	XX	0.00	9	0.00000	OTP
9.581	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
10.977	4.83259	VV	0.03	12	7.885e-6	docosane
11.398	2205.52319	VB	0.02	13	0.00360	COD
11.888	0.00000	XX	0.00	14	0.00000	tetracosane
12.658	0.00000	XX	0.00	15	0.00000	hexacosane
13.373	0.00000	XX	0.00	16	0.00000	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.215	0.00000	XX	0.00	18	0.00000	hexatriacontane
1.544	5.68362e7	VVS	0.73	1	92.73966	* uncalibrated *
1.568	8.74218e5	VVS	0.01	2	1.42646	* uncalibrated *
1.610	2.46294e5	VVS	0.04	3	0.40188	* uncalibrated *
1.658	2.36276e5	VVS	0.04	4	0.38553	* uncalibrated *
1.767	4.17628e5	VVS	0.09	5	0.68144	* uncalibrated *
1.810	2.18700e5	VVS	0.04	6	0.35685	* uncalibrated *
1.882	2.19639e5	VVS	0.04	7	0.35839	* uncalibrated *
1.937	1.95970e5	VVS	0.03	8	0.31976	* uncalibrated *
1.985	1.52839e5	VVS	0.03	9	0.24939	* uncalibrated *
2.029	1.49592e5	VVS	0.03	10	0.24409	* uncalibrated *
2.077	1.11631e5	VVS	0.02	11	0.18215	* uncalibrated *
2.156	3.32287e5	VVS	0.10	12	0.54219	* uncalibrated *
2.233	1.32811e5	VVS	0.03	13	0.21671	* uncalibrated *
2.276	1.23019e5	VVS	0.02	14	0.20073	* uncalibrated *
2.318	1.52205e5	VVS	0.04	15	0.24835	* uncalibrated *
2.376	1.45080e5	VVS	0.04	16	0.23673	* uncalibrated *
2.426	8.65492e4	VVS	0.02	17	0.14122	* uncalibrated *
2.471	1.24343e5	VVS	0.03	18	0.20289	* uncalibrated *
2.512	1.02530e5	VVS	0.02	19	0.16730	* uncalibrated *
2.558	1.60557e5	VVS	0.05	20	0.26198	* uncalibrated *
2.622	1.05118e5	VVS	0.03	21	0.17152	* uncalibrated *
2.653	5.93783e4	VVS	0.02	22	0.09689	* uncalibrated *
2.686	4.41845e4	VVS	0.03	23	0.07210	* uncalibrated *
2.730	2.88870e4	VVS	0.02	24	0.04713	* uncalibrated *
2.774	2.75677e4	VBAS	0.03	25	0.04498	* uncalibrated *

```
==========================================================================
Injection Date  : 7/18/2005 4:09:21 PM          Seq. Line :   3
Sample Name     : 141690 x1 K                    Location : Vial 5
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|---------|--------|--------------------
   1   3.072         0.0000   0.00000  0.00000 nonane
   2   3.867 VB      0.0325  12.27076 2.002e-5 decane
   3   5.541         0.0000   0.00000  0.00000 dodecane
   4   6.610         0.0000   0.00000  0.00000 2-FB(frac2)
   5   6.955 PV      0.1481  16.19289 2.642e-5 tetradecane
   6   7.485         0.0000   0.00000  0.00000 2-BrN(frac)
   7   8.095         0.0000   0.00000  0.00000 hexadecane
   8   9.172         0.0000   0.00000  0.00000 octadecane
   9   9.570         0.0000   0.00000  0.00000 OTP
  10   9.581         0.0000   0.00000  0.00000 nonadecane
  11  10.154         0.0000   0.00000  0.00000 eicosane
  12  10.977 VV      0.0310   4.83259 7.885e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.398	VB	0.0258	2205.52319	0.00360	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.373		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 2238.81944 3.653e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.544	VV S	0.7362	5.68362e7	92.73966	?
2	1.568	VV S	0.0182	8.74218e5	1.42646	?
3	1.610	VV S	0.0434	2.46294e5	0.40188	?
4	1.658	VV S	0.0433	2.36276e5	0.38553	?
5	1.767	VV S	0.0910	4.17628e5	0.68144	?
6	1.810	VV S	0.0433	2.18700e5	0.35685	?
7	1.882	VV S	0.0437	2.19639e5	0.35839	?
8	1.937	VV S	0.0364	1.95970e5	0.31976	?
9	1.985	VV S	0.0352	1.52839e5	0.24939	?
10	2.029	VV S	0.0356	1.49592e5	0.24409	?
11	2.077	VV S	0.0276	1.11631e5	0.18215	?
12	2.156	VV S	0.1020	3.32287e5	0.54219	?
13	2.233	VV S	0.0338	1.32811e5	0.21671	?
14	2.276	VV S	0.0280	1.23019e5	0.20073	?
15	2.318	VV S	0.0440	1.52205e5	0.24835	?
16	2.376	VV S	0.0443	1.45080e5	0.23673	?
17	2.426	VV S	0.0236	8.65492e4	0.14122	?
18	2.471	VV S	0.0329	1.24343e5	0.20289	?
19	2.512	VV S	0.0261	1.02530e5	0.16730	?
20	2.558	VV S	0.0555	1.60557e5	0.26198	?
21	2.622	VV S	0.0317	1.05118e5	0.17152	?
22	2.653	VV S	0.0274	5.93783e4	0.09689	?
23	2.686	VV S	0.0336	4.41845e4	0.07210	?
24	2.730	VV S	0.0258	2.88870e4	0.04713	?
25	2.774	VBAS	0.0368	2.75677e4	0.04498	?
26	3.800	VV	0.0256	1.90626	3.110e-6	?
27	4.692	VV	0.0284	2.45721	4.009e-6	?
28	6.352	BP	0.0277	2.52363	4.118e-6	?
29	10.881	VV	0.0566	5.39025	8.795e-6	?

Uncalib. totals : 6.12835e7 99.9963

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

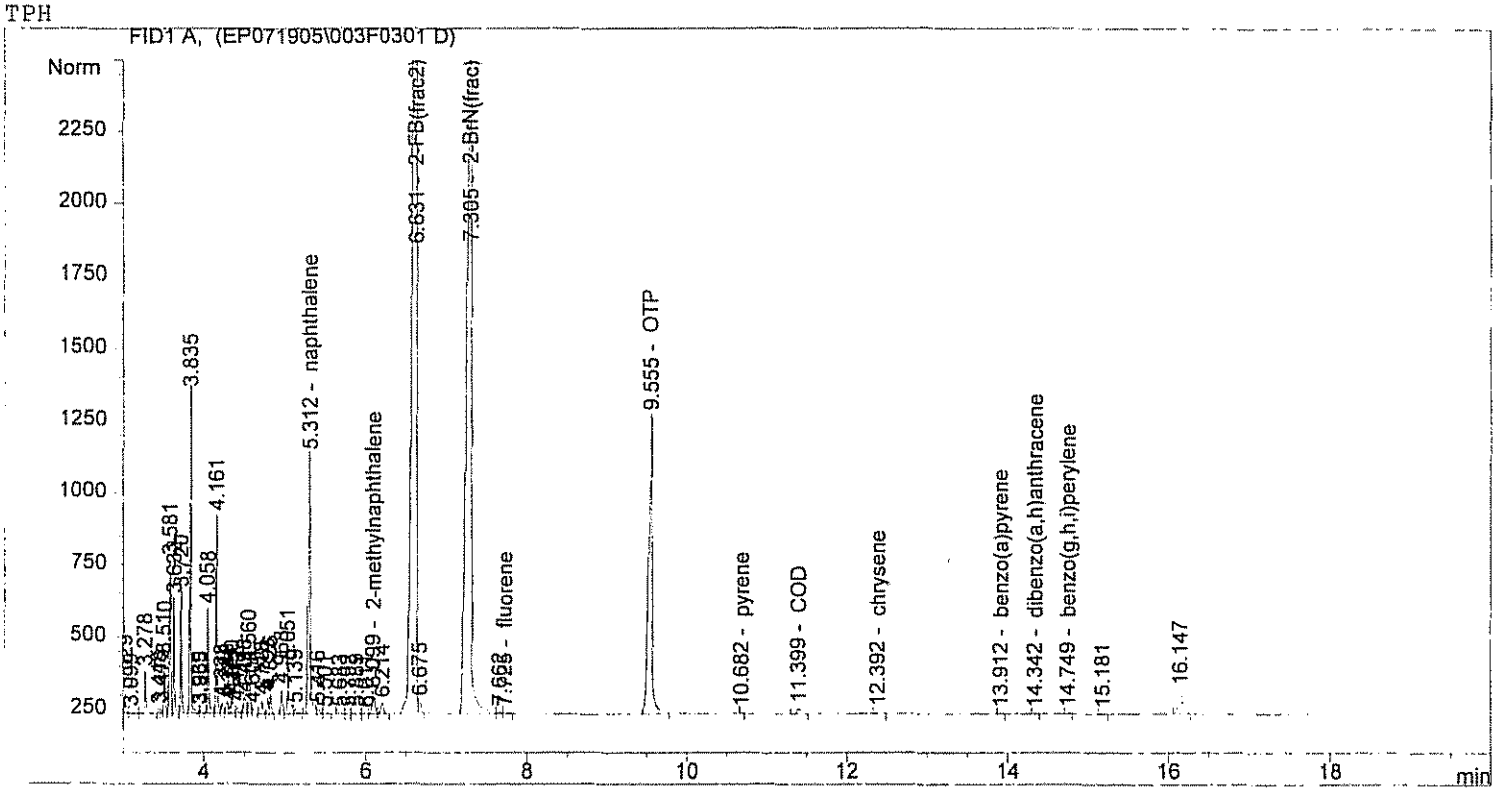
Data File Name : C:\HPCHEM\1\DATA\EP071905\003F0301.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2069-2M x1 R
Run Time Bar Code: 141690
Acquired on : 19 Jul 05 5:07:43 PM
Report Created on: 20 Jul 2005 8:45:44 AM
Last Recalib on : 14 Jul 2005 2:22:40 PM
Multiplier : 1.0000

Page Number :
Vial Number : Vial 3
Injection Number : 1
Sequence Line : 3
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\EP071905\003F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.312	1600.41687	BV	0.02	1	0.00193	naphthalene
6.099	181.45854	VV	0.03	2	0.00022	2-methylnaphthalene
6.631	1.43660e4	PV	0.04	3	0.01734	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.305	1.02128e4	BB	0.04	5	0.01233	2-BrN(frac)
7.362	0.00000	XX	0.00	6	0.00000	acenaphthene
7.725	18.83908	VB	0.05	7	2.274e-5	fluorene
9.090	0.00000	XX	0.00	8	0.00000	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.555	2946.86328	BB	0.03	10	0.00356	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.682	2.78964	BP	0.02	12	3.367e-6	pyrene
11.399	64.95087	BB	0.04	13	7.840e-5	COD
12.039	0.00000	XX	0.00	14	0.00000	benzo(a)anthracene
12.392	21.68905	BP	0.05	15	2.618e-5	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.270	0.00000	XX	0.00	17	0.00000	benzo(k)fluoranthene
13.912	5.65935	BB	0.03	18	6.831e-6	benzo(a)pyrene
14.342	3.90703	BB	0.03	19	4.716e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.749	4.16526	BB	0.03	21	5.028e-6	benzo(g,h,i)perylene
0.554	154.92294	PV	0.02	1	0.00019	* uncalibrated *
0.590	75.30437	VV	0.02	2	9.090e-5	* uncalibrated *
0.719	1.50036e6	VVS	0.05	3	1.81106	* uncalibrated *
1.865	8.02472e7	VVS	0.98	4	96.86501	* uncalibrated *
1.895	9.10457e5	VVS	0.01	5	1.09900	* uncalibrated *
1.959	2.80759e4	PVT	0.08	6	0.03389	* uncalibrated *
2.056	1.11469e4	VVS	0.03	7	0.01346	* uncalibrated *
2.126	1.40872e4	VVS	0.04	8	0.01700	* uncalibrated *
2.173	9417.93457	VVS	0.02	9	0.01137	* uncalibrated *
2.214	7802.86816	VVS	0.03	10	0.00942	* uncalibrated *
2.250	8125.33203	VVS	0.03	11	0.00981	* uncalibrated *
2.291	6406.81348	VVS	0.02	12	0.00773	* uncalibrated *
2.336	8241.93555	VVS	0.03	13	0.00995	* uncalibrated *
2.380	7465.91211	VVS	0.03	14	0.00901	* uncalibrated *
2.429	1.35276e4	VVS	0.06	15	0.01633	* uncalibrated *
2.500	3888.68506	VVS	0.02	16	0.00469	* uncalibrated *
2.545	1.02725e4	VVS	0.06	17	0.01240	* uncalibrated *
2.606	7869.31738	VVS	0.04	18	0.00950	* uncalibrated *
2.659	4977.08740	VVS	0.03	19	0.00601	* uncalibrated *
2.699	3331.58228	VVS	0.03	20	0.00402	* uncalibrated *
2.751	2708.91431	VVS	0.03	21	0.00327	* uncalibrated *
2.798	1912.25500	VBS	0.02	22	0.00231	* uncalibrated *

```
==========================================================================
Injection Date  : 7/19/2005 5:07:43 PM          Seq. Line :   3
Sample Name     : 141690 x1 R                    Location : Vial 3
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071905.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BV	0.0269	1600.41687	0.00193	naphthalene
2	6.099	VV	0.0390	181.45854	0.00022	2-methylnaphthalene
3	6.631	PV	0.0487	1.43660e4	0.01734	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.305	BB	0.0499	1.02128e4	0.01233	2-BrN(frac)
6	7.362		0.0000	0.00000	0.00000	acenaphthene
7	7.725	VB	0.0511	18.83908	2.274e-5	fluorene
8	9.090		0.0000	0.00000	0.00000	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.555	BB	0.0393	2946.86328	0.00356	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.682	BP	0.0249	2.78964	3.367e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.399	BB	0.0482	64.95087	7.840e-5	COD
14	12.039		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.392	BP	0.0559	21.68905	2.618e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.270		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.912	BB	0.0362	5.65935	6.831e-6	benzo(a)pyrene
19	14.342	BB	0.0332	3.90703	4.716e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.749	BB	0.0321	4.16526	5.028e-6	benzo(g,h,i)perylene

Totals : 2.94295e4 3.552e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.554	PV	0.0217	154.92294	0.00019	?
2	0.590	VV	0.0228	75.30437	9.090e-5	?
3	0.719	VV S	0.0502	1.50036e6	1.81106	?
4	1.865	VV S	0.9866	8.02472e7	96.86501	?
5	1.895	VV S	0.0195	9.10457e5	1.09900	?
6	1.959	PV T	0.0852	2.80759e4	0.03389	?
7	2.056	VV S	0.0364	1.11469e4	0.01346	?
8	2.126	VV S	0.0446	1.40872e4	0.01700	?
9	2.173	VV S	0.0287	9417.93457	0.01137	?
10	2.214	VV S	0.0302	7802.86816	0.00942	?
11	2.250	VV S	0.0300	8125.33203	0.00981	?
12	2.291	VV S	0.0284	6406.81348	0.00773	?
13	2.336	VV S	0.0359	8241.93555	0.00995	?
14	2.380	VV S	0.0309	7465.91211	0.00901	?
15	2.429	VV S	0.0656	1.35276e4	0.01633	?
16	2.500	VV S	0.0213	3888.68506	0.00469	?
17	2.545	VV S	0.0602	1.02725e4	0.01240	?
18	2.606	VV S	0.0410	7869.31738	0.00950	?
19	2.659	VV S	0.0337	4977.08740	0.00601	?
20	2.699	VV S	0.0336	3331.58228	0.00402	?
21	2.751	VV S	0.0398	2708.91431	0.00327	?
22	2.798	VB S	0.0297	1912.25500	0.00231	?
23	2.861	BV X	0.0142	1206.17285	0.00146	?
24	3.029	VV X	0.0154	63.68631	7.687e-5	?
25	3.099	VV X	0.0328	4.26516	5.148e-6	?
26	3.278	VB X	0.0156	141.45486	0.00017	?
27	3.448	BV	0.0156	12.51973	1.511e-5	?
28	3.479	VV	0.0137	17.05915	2.059e-5	?
29	3.510	VV	0.0161	190.46973	0.00023	?
30	3.581	VV	0.0234	738.58917	0.00089	?
31	3.632	VV	0.0159	400.02405	0.00048	?
32	3.720	VB	0.0159	424.00272	0.00051	?
33	3.835	BV	0.0177	1211.46240	0.00146	?
34	3.939	VV	0.0184	11.57784	1.398e-5	?
35	3.965	VB	0.0240	19.49420	2.353e-5	?
36	4.058	BV	0.0170	398.35458	0.00048	?
37	4.161	VV	0.0160	702.36597	0.00085	?
38	4.228	VV	0.0190	46.01423	5.554e-5	?
39	4.288	VV	0.0273	65.15945	7.865e-5	?
40	4.324	VV	0.0187	31.06024	3.749e-5	?
41	4.350	VV	0.0221	76.59126	9.245e-5	?
42	4.412	VB	0.0221	31.22690	3.769e-5	?
43	4.498	BV	0.0320	121.90623	0.00015	?
44	4.560	VV	0.0201	199.28947	0.00024	?
45	4.604	VB	0.0236	23.91990	2.887e-5	?
46	4.718	BV	0.0223	64.33698	7.766e-5	?
47	4.793	VV	0.0187	64.76280	7.817e-5	?
48	4.826	VB	0.0203	84.58826	0.00010	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	4.968	BV	0.0204	107.04806	0.00013	?
50	5.051	VV	0.0283	335.61710	0.00041	?
51	5.139	VB	0.0288	34.85991	4.208e-5	?
52	5.416	VV	0.0347	40.37283	4.873e-5	?
53	5.501	VB	0.0462	9.59422	1.158e-5	?
54	5.683	PB	0.0339	8.31718	1.004e-5	?
55	5.792	BV	0.0318	9.43893	1.139e-5	?
56	5.889	VV	0.0497	16.79873	2.028e-5	?
57	6.011	VV	0.0415	8.99030	1.085e-5	?
58	6.214	VP	0.0430	106.75529	0.00013	?
59	6.675	VB	0.0243	66.24924	7.997e-5	?
60	7.662	BV	0.0446	22.23759	2.684e-5	?
61	15.181	BB	0.0398	4.11388	4.966e-6	?
62	16.147	BB	0.0573	303.12766	0.00037	?

Uncalib. totals : 8.28150e7 99.9645

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

EPH Calibration Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/05/05

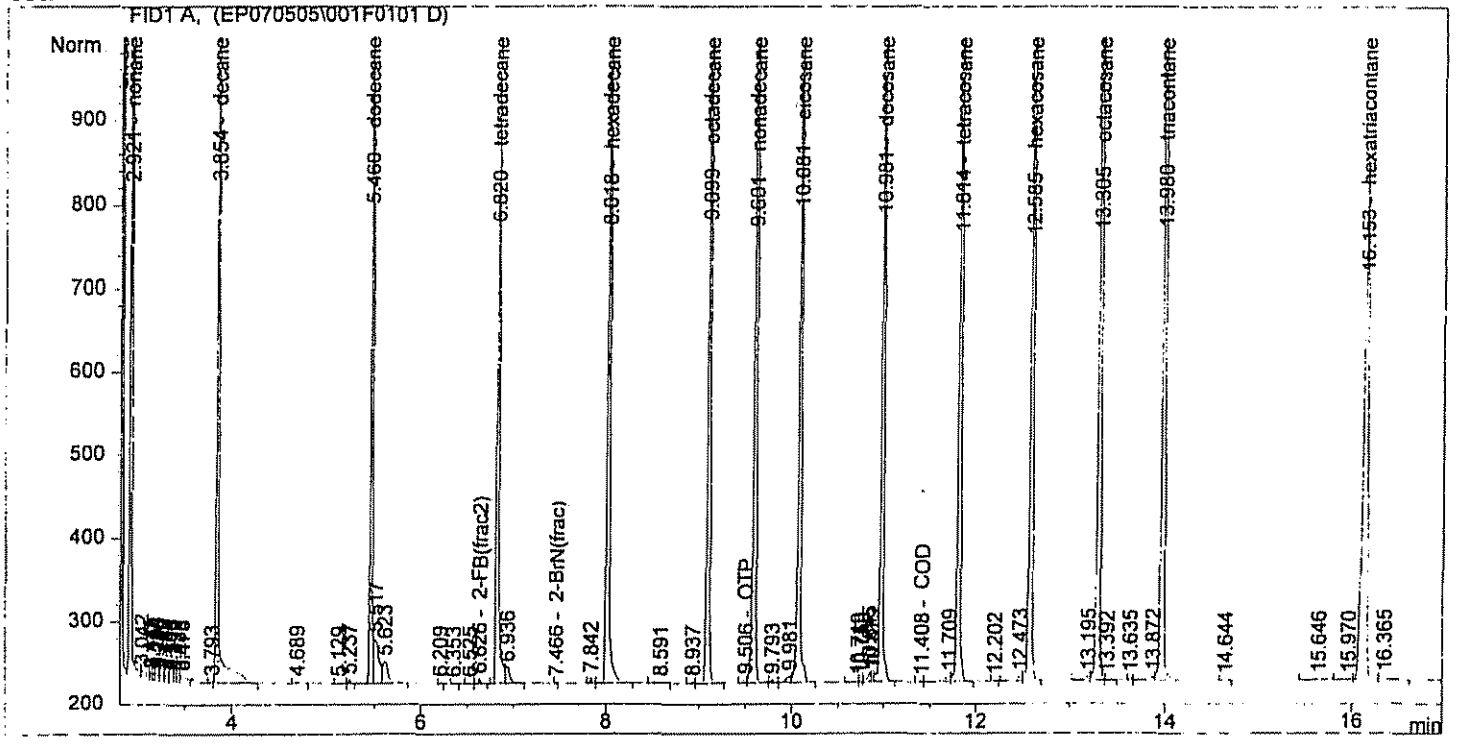
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	60	7.5
C_{19}-C_{36} Aliphatics	80	5.0
C_{11}-C_{22} Aromatics	340	-6.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 7/5/2005 5:16:20 PM          Seq. Line :   1
Sample Name     : K 40 ical                     Location : Vial 1
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:01 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	2.921	VV	0.0197	1464.65564	0.00317	nonane
2	3.854	VB	0.0222	1790.48792	0.00388	decane
3	5.460	BV	0.0199	1430.95947	0.00310	dodecane
4	6.626	VP	0.0206	7.48499	1.621e-5	2-FB(frac2)
5	6.820	PV	0.0236	1657.45227	0.00359	tetradecane
6	7.466	VV	0.0199	2.18315	4.729e-6	2-BrN(frac)
7	8.018	VB	0.0238	1709.42993	0.00370	hexadecane
8	9.099	VB	0.0229	1746.29138	0.00378	octadecane
9	9.506	VV	0.0437	12.64255	2.739e-5	OTP
10	9.601	VV	0.0239	1754.91345	0.00380	nonadecane
11	10.081	VB	0.0244	1773.12976	0.00384	eicosane
12	10.981	VB	0.0259	1833.64990	0.00397	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.408	VV	0.0237	2.83018	6.131e-6	COD
14	11.814	VB	0.0248	1945.84497	0.00422	tetracosane
15	12.585	VB	0.0272	2059.55396	0.00446	hexacosane
16	13.305	VV	0.0265	2119.26245	0.00459	octacosane
17	13.980	VB	0.0281	2144.35718	0.00465	triacontane
18	16.153	VV	0.0479	2181.43066	0.00473	hexatriacontane

Totals : 2.56366e4 5.554e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.503	VV	9.75e-3	3.87532	8.395e-6	?
2	0.544	VP	0.0316	5.63474	1.221e-5	?
3	0.586	VV	0.0117	5.04803	1.094e-5	?
4	1.338	VV S	0.5681	4.23728e7	91.79164	?
5	1.414	VV S	0.0360	2.38145e5	0.51589	?
6	1.457	VV S	0.0292	1.72238e5	0.37312	?
7	1.504	VV S	0.0458	1.76019e5	0.38131	?
8	1.546	VV S	0.0287	1.69392e5	0.36695	?
9	1.601	VV S	0.0366	1.57039e5	0.34019	?
10	1.641	VV S	0.0241	1.22659e5	0.26571	?
11	1.695	VV S	0.0763	2.72603e5	0.59054	?
12	1.755	VV S	0.0195	7.76362e4	0.16818	?
13	1.793	VV S	0.0376	1.34446e5	0.29125	?
14	1.831	VV S	0.0335	1.07141e5	0.23210	?
15	1.872	VV S	0.0644	2.10311e5	0.45559	?
16	1.942	VV S	0.0296	1.10279e5	0.23890	?
17	1.985	VV S	0.0306	1.08470e5	0.23498	?
18	2.015	VV S	0.0404	1.33654e5	0.28953	?
19	2.067	VV S	0.0307	1.20978e5	0.26207	?
20	2.119	VV S	0.0361	1.11782e5	0.24215	?
21	2.157	VV S	0.0242	9.02686e4	0.19555	?
22	2.186	VV S	0.0382	1.11930e5	0.24247	?
23	2.253	VV S	0.0686	1.92893e5	0.41786	?
24	2.320	VV S	0.0480	1.25387e5	0.27162	?
25	2.368	VV S	0.0355	1.10194e5	0.23871	?
26	2.409	VV S	0.0360	1.19187e5	0.25819	?
27	2.517	VV S	0.0835	2.24705e5	0.48678	?
28	2.558	VV S	0.0325	8.51239e4	0.18440	?
29	2.604	VV S	0.0342	9.25618e4	0.20052	?
30	2.629	VV S	0.0267	6.85026e4	0.14840	?
31	2.661	VV S	0.0394	8.39189e4	0.18179	?
32	2.743	VV S	0.0265	2.02835e4	0.04394	?
33	2.783	VBAS	0.0257	1.49929e4	0.03248	?
34	3.042	VV	0.0527	24.43899	5.294e-5	?
35	3.145	VV	0.0199	4.62410	1.002e-5	?
36	3.171	VV	0.0203	4.47648	9.697e-6	?
37	3.206	VV	0.0349	9.59216	2.078e-5	?
38	3.246	VV	0.0331	6.90560	1.496e-5	?
39	3.298	VV	0.0312	6.23980	1.352e-5	?
40	3.356	VV	0.0351	5.85852	1.269e-5	?
41	3.399	VV	0.0249	4.84861	1.050e-5	?
42	3.438	VV	0.0249	5.46262	1.183e-5	?
43	3.475	VV	0.0709	18.64049	4.038e-5	?
44	3.793	VV	0.0224	2.90003	6.282e-6	?
45	4.689	BV	0.0429	7.91076	1.714e-5	?
46	5.129	PV	0.0449	4.37063	9.468e-6	?
47	5.237	VP	0.0226	6.70182	1.452e-5	?
48	5.517	VV	0.0540	222.93123	0.00048	?
49	5.623	VB	0.0528	102.38389	0.00022	?
50	6.209	BB	0.0195	2.34533	5.081e-6	?
51	6.353	BB	0.0243	1.79134	3.881e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	6.525	BP	0.0244	2.18359	4.730e-6	?
53	6.936	VB	0.0440	60.72083	0.00013	?
54	7.842	BP	0.0204	8.61642	1.867e-5	?
55	8.591	PP	0.0361	2.88831	6.257e-6	?
56	8.937	VV	0.0227	3.62133	7.845e-6	?
57	9.793	VB	0.0266	6.90356	1.496e-5	?
58	9.981	BV	0.0466	25.66632	5.560e-5	?
59	10.719	VV	0.0389	5.30762	1.150e-5	?
60	10.759	VV	0.0273	4.78670	1.037e-5	?
61	10.845	VV	0.0405	29.55837	6.403e-5	?
62	10.879	VV	0.0199	11.17134	2.420e-5	?
63	11.709	VV	0.0740	34.67511	7.512e-5	?
64	12.202	BB	0.0251	2.59528	5.622e-6	?
65	12.473	BV	0.0615	24.98494	5.412e-5	?
66	13.195	BV	0.0527	19.44730	4.213e-5	?
67	13.392	VP	0.0318	4.46860	9.680e-6	?
68	13.635	BV	0.0236	5.09245	1.103e-5	?
69	13.872	VV	0.0509	16.51588	3.578e-5	?
70	14.644	VV	0.0434	5.10860	1.107e-5	?
71	15.646	BB	0.0652	6.63919	1.438e-5	?
72	15.970	PV	0.0810	10.48173	2.271e-5	?
73	16.365	VB	0.0774	18.27855	3.960e-5	?

Uncalib. totals : 4.61364e7 99.9445

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 5:43:12 PM          Seq. Line :   2
Sample Name     : K 20 ical                     Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:18:24 AM by DCS
                  (modified after loading)
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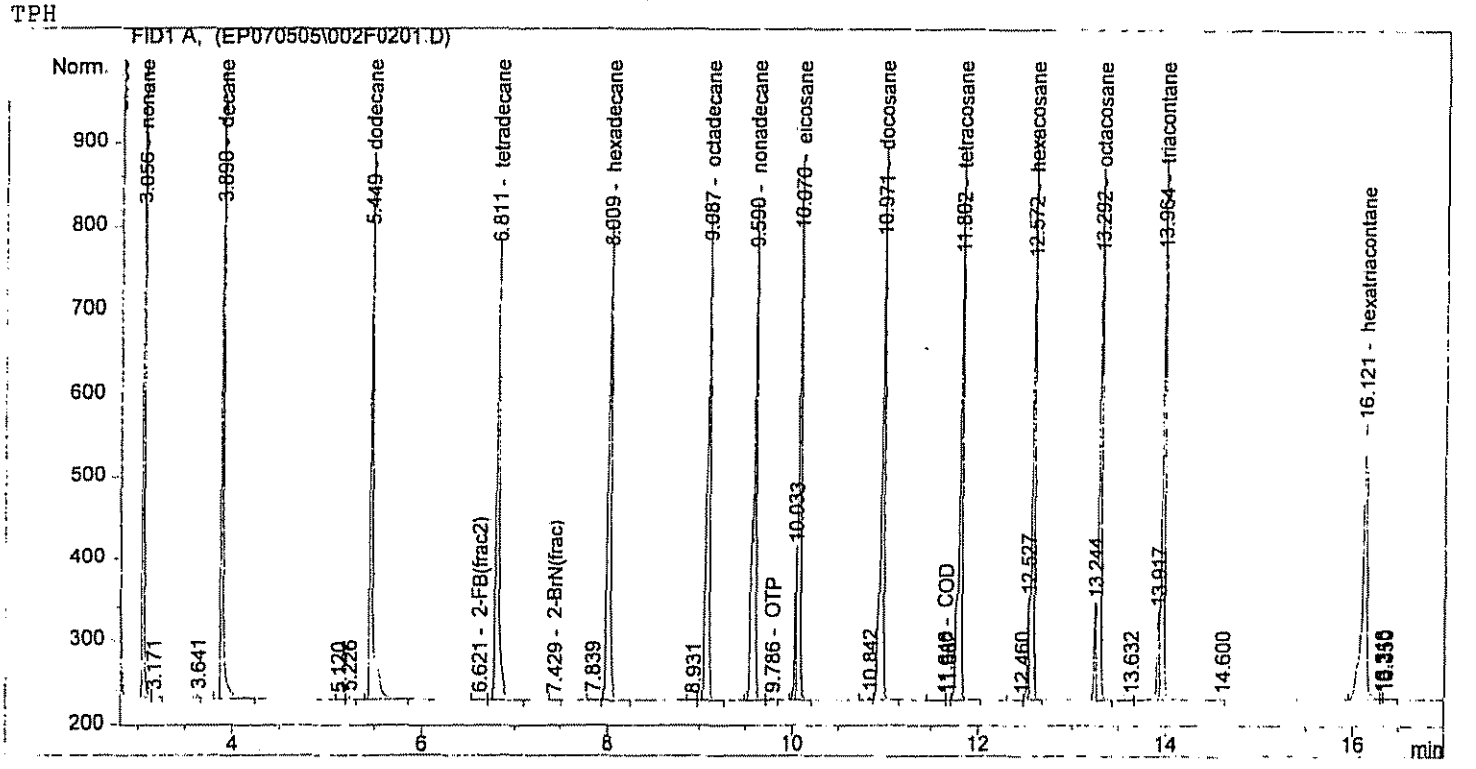
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type    Width     Area      Area    Name
  #   [min]           [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.056 VV      0.0170 1266.11841  0.00168 nonane
   2   3.890 PB      0.0194 1279.19031  0.00170 decane
   3   5.449 VP      0.0291 1286.24854  0.00171 dodecane
   4   6.621 VP      0.0412    6.88729 9.156e-6 2-FB(frac2)
   5   6.811 VB      0.0320 1285.44092  0.00171 tetradecane
   6   7.429 PB      0.0302    2.59298 3.447e-6 2-BrN(frac)
   7   8.009 BB      0.0314 1288.99622  0.00171 hexadecane
   8   9.087 VB      0.0319 1301.94788  0.00173 octadecane
   9   9.590 VV      0.0316 1299.69238  0.00173 nonadecane
  10   9.786 VP      0.0426    6.33639 8.423e-6 OTP
  11  10.070 VB      0.0222 1026.11792  0.00136 eicosane
  12  10.971 VP      0.0289 1297.54663  0.00172 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.646	VV	0.0566	4.78266	6.358e-6	COD
14	11.802	VB	0.0280	1300.71521	0.00173	tetracosane
15	12.572	VB	0.0246	1141.47192	0.00152	hexacosane
16	13.292	VB	0.0264	1119.32971	0.00149	octacosane
17	13.964	VB	0.0262	1129.04834	0.00150	triacontane
18	16.121	BV	0.0543	1246.25208	0.00166	hexatriacontane

Totals : 1.72887e4 2.298e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.519	BV	0.0246	57.74522	7.676e-5	?
2	0.586	VV	0.0237	60.70682	8.070e-5	?
3	1.757	VV S	0.9269	7.50090e7	99.71239	?
4	1.871	PV T	0.0724	3.66966e4	0.04878	?
5	1.900	VV S	0.0222	7539.72803	0.01002	?
6	1.938	VV S	0.0413	1.36300e4	0.01812	?
7	1.987	VV S	0.0322	9887.83594	0.01314	?
8	2.029	VV S	0.0314	8891.41602	0.01182	?
9	2.056	VV S	0.0341	9171.54004	0.01219	?
10	2.101	VV S	0.0435	1.19341e4	0.01586	?
11	2.167	VV S	0.0639	1.51115e4	0.02009	?
12	2.231	VV S	0.0450	1.08432e4	0.01441	?
13	2.276	VV S	0.0244	6460.79590	0.00859	?
14	2.313	VV S	0.0343	7420.84668	0.00986	?
15	2.342	VV S	0.0223	5157.41846	0.00686	?
16	2.368	VV S	0.0193	4072.39526	0.00541	?
17	2.397	VV S	0.0270	5564.77979	0.00740	?
18	2.442	VV S	0.0397	7676.17383	0.01020	?
19	2.477	VV S	0.0298	6480.95703	0.00862	?
20	2.524	VV S	0.0451	7486.56201	0.00995	?
21	2.571	VV S	0.0323	5891.19531	0.00783	?
22	2.606	VV S	0.0380	6896.95996	0.00917	?
23	2.653	VV S	0.0300	4868.49316	0.00647	?
24	2.704	VV S	0.0347	3265.92163	0.00434	?
25	2.759	VBAS	0.0521	3142.03711	0.00418	?
26	3.171	VB	0.0459	6.17071	8.203e-6	?
27	3.641	VB	0.0169	3.83051	5.092e-6	?
28	5.120	PB	0.0367	3.31076	4.401e-6	?
29	5.226	BV	0.0268	6.33691	8.424e-6	?
30	7.839	VP	0.0332	6.13517	8.156e-6	?
31	8.931	BP	0.0343	2.61409	3.475e-6	?
32	10.033	VV	0.0224	274.32721	0.00036	?
33	10.842	VV	0.0436	12.46182	1.657e-5	?
34	11.682	VV	0.0328	3.37227	4.483e-6	?
35	12.460	BV	0.0513	4.44878	5.914e-6	?
36	12.527	VV	0.0215	160.92191	0.00021	?
37	13.244	VV	0.0245	182.79713	0.00024	?
38	13.632	BP	0.0284	2.38395	3.169e-6	?
39	13.917	VV	0.0256	173.30225	0.00023	?
40	14.600	PV	0.0405	3.38775	4.503e-6	?
41	16.318	VV	0.0219	2.13633	2.840e-6	?
42	16.350	VB	0.0609	7.15532	9.512e-6	?

Uncalib. totals : 7.52081e7 99.9770

Results obtained with enhanced integrator!
2 Warnings or Errors :

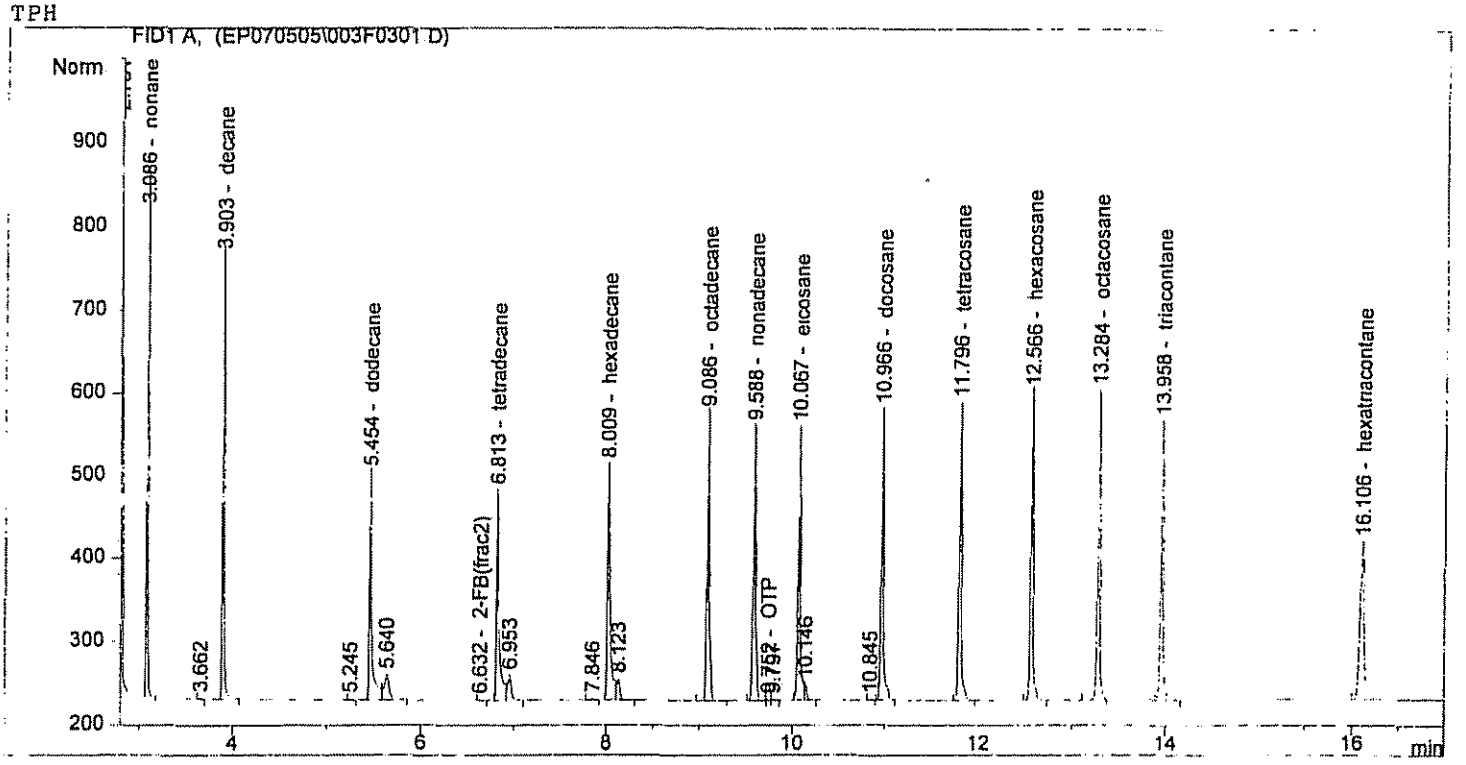
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 6:10:14 PM          Seq. Line :   3
Sample Name     : K 10 ical                     Location : Vial 3
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:03 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.086	BV	0.0163	646.96594	0.00080	nonane
2	3.903	PB	0.0191	648.55542	0.00080	decane
3	5.454	BV	0.0259	515.10767	0.00063	dodecane
4	6.632	VP	0.0224	2.64904	3.257e-6	2-FB(frac2)
5	6.813	PV	0.0296	535.56970	0.00066	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.009	BV	0.0299	559.39600	0.00069	hexadecane
8	9.086	VB	0.0260	629.22015	0.00077	octadecane
9	9.588	VB	0.0279	622.48523	0.00077	nonadecane
10	9.752	BV	0.0413	3.49163	4.293e-6	OTP
11	10.067	BV	0.0267	587.18970	0.00072	eicosane
12	10.966	BB	0.0257	624.03387	0.00077	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	BB	0.0263	627.09064	0.00077	tetracosane
15	12.566	VB	0.0258	634.36932	0.00078	hexacosane
16	13.284	PB	0.0256	630.87390	0.00078	octacosane
17	13.958	VB	0.0298	632.02637	0.00078	triacontane
18	16.106	BV	0.0464	593.95795	0.00073	hexatriacontane

Totals : 8492.98253 1.044e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0244	7.71156	9.481e-6	?
2	0.562	VP	0.0113	1.42115	1.747e-6	?
3	0.591	VV	0.0154	23.15101	2.846e-5	?
4	1.820	VV S	0.9937	8.05263e7	99.00074	?
5	1.887	VV S	0.0265	4.48002e4	0.05508	?
6	1.928	VV S	0.0408	6.93738e4	0.08529	?
7	1.973	VV S	0.0381	5.52395e4	0.06791	?
8	2.024	VV S	0.0335	5.17152e4	0.06358	?
9	2.067	VV S	0.0365	5.62647e4	0.06917	?
10	2.118	VV S	0.0376	4.86328e4	0.05979	?
11	2.151	VV S	0.0215	2.98704e4	0.03672	?
12	2.177	VV S	0.0264	3.52801e4	0.04337	?
13	2.228	VV S	0.0458	5.56615e4	0.06843	?
14	2.287	VV S	0.0379	5.22191e4	0.06420	?
15	2.333	VV S	0.0391	4.50187e4	0.05535	?
16	2.381	VV S	0.0585	6.88890e4	0.08469	?
17	2.468	VV S	0.0502	4.48071e4	0.05509	?
18	2.536	VV S	0.0353	4.05112e4	0.04981	?
19	2.597	VV S	0.0481	4.29150e4	0.05276	?
20	2.637	VV S	0.0305	2.27497e4	0.02797	?
21	2.672	VV S	0.0404	1.89249e4	0.02327	?
22	2.735	VV S	0.0465	1.48342e4	0.01824	?
23	2.781	VBAS	0.0237	6243.33594	0.00768	?
24	3.662	VP	0.0195	2.25390	2.771e-6	?
25	5.245	BP	0.0223	2.77696	3.414e-6	?
26	5.640	VB	0.0517	112.54359	0.00014	?
27	6.953	VB	0.0402	87.22015	0.00011	?
28	7.846	VP	0.0237	3.71921	4.572e-6	?
29	8.123	VB	0.0356	65.04246	7.996e-5	?
30	9.797	VP	0.0246	2.36150	2.903e-6	?
31	10.146	VB	0.0269	35.94770	4.419e-5	?
32	10.845	BP	0.0222	2.60568	3.203e-6	?

Uncalib. totals : 8.13306e7 99.9896

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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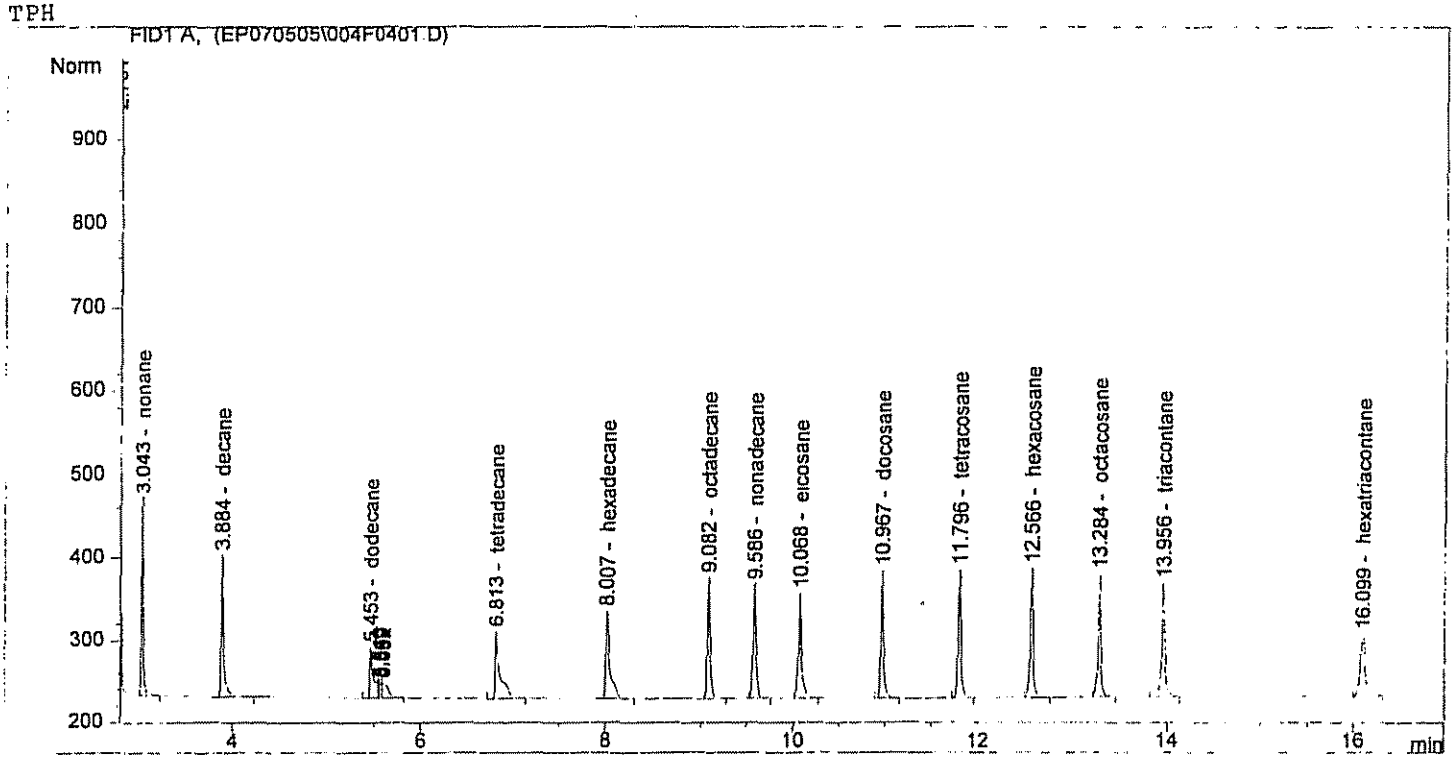
*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 6:37:08 PM          Seq. Line :   4
Sample Name     : K 5 ical                      Location : Vial 4
Acq. Operator   : DCS                               Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:25 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.043	VB	0.0194	314.75198	0.00042	nonane
2	3.884	BB	0.0257	319.18195	0.00043	decane
3	5.453	VV	0.0395	178.06067	0.00024	dodecane
4	6.600		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.813	BB	0.0531	314.94501	0.00042	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.007	BB	0.0422	318.62674	0.00043	hexadecane
8	9.082	BB	0.0325	320.91269	0.00043	octadecane
9	9.500		0.0000	0.00000	0.00000	OTP
10	9.586	PB	0.0330	317.79922	0.00043	nonadecane
11	10.068	BB	0.0354	320.89191	0.00043	eicosane
12	10.967	VB	0.0302	321.13647	0.00043	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.796	VB	0.0301	321.12863	0.00043	tetracosane
15	12.566	VB	0.0312	325.14694	0.00044	hexacosane
16	13.284	PB	0.0321	321.30228	0.00043	octacosane
17	13.956	BB	0.0341	320.14969	0.00043	triacontane
18	16.099	BB	0.0561	291.00854	0.00039	hexatriacontane

Totals : 4305.04272 5.802e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.517	PV	0.0191	55.41060	7.468e-5	?
2	0.565	VV	0.0185	28.83533	3.886e-5	?
3	1.713	VV S	0.9089	7.32658e7	98.74944	?
4	1.764	VV S	0.0163	7.29550e5	0.98330	?
5	1.830	VV S	0.0435	1.87256e4	0.02524	?
6	1.878	VV S	0.0284	1.22771e4	0.01655	?
7	1.924	VV S	0.0404	1.41080e4	0.01902	?
8	1.974	VV S	0.0322	1.20777e4	0.01628	?
9	2.013	VV S	0.0466	1.33146e4	0.01795	?
10	2.087	VV S	0.0613	1.79908e4	0.02425	?
11	2.136	VV S	0.0245	7542.58447	0.01017	?
12	2.183	VV S	0.0671	1.54346e4	0.02080	?
13	2.267	VV S	0.0517	1.32190e4	0.01782	?
14	2.316	VV S	0.0334	9018.83691	0.01216	?
15	2.360	VV S	0.0333	8250.15332	0.01112	?
16	2.408	VV S	0.0349	8098.63721	0.01092	?
17	2.453	VV S	0.0346	7506.19678	0.01012	?
18	2.493	VV S	0.0245	5263.53906	0.00709	?
19	2.536	VV S	0.0618	1.09045e4	0.01470	?
20	2.600	VV S	0.0313	7502.49414	0.01011	?
21	2.645	VV S	0.0314	4715.55957	0.00636	?
22	2.684	VV S	0.0381	3582.78540	0.00483	?
23	2.733	VV S	0.0518	3241.38672	0.00437	?
24	2.781	VBAS	0.0167	992.51752	0.00134	?
25	5.543	VV	0.0178	22.70176	3.060e-5	?
26	5.569	VV	0.0207	27.28106	3.677e-5	?
27	5.592	VV	0.0602	83.46490	0.00011	?

Uncalib. totals : 7.41894e7 99.9942

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 7:03:13 PM          Seq. Line :   5
Sample Name     : K 1 ical                      Location : Vial 5
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/6/2005 8:19:54 AM by DCS
                  (modified after loading)
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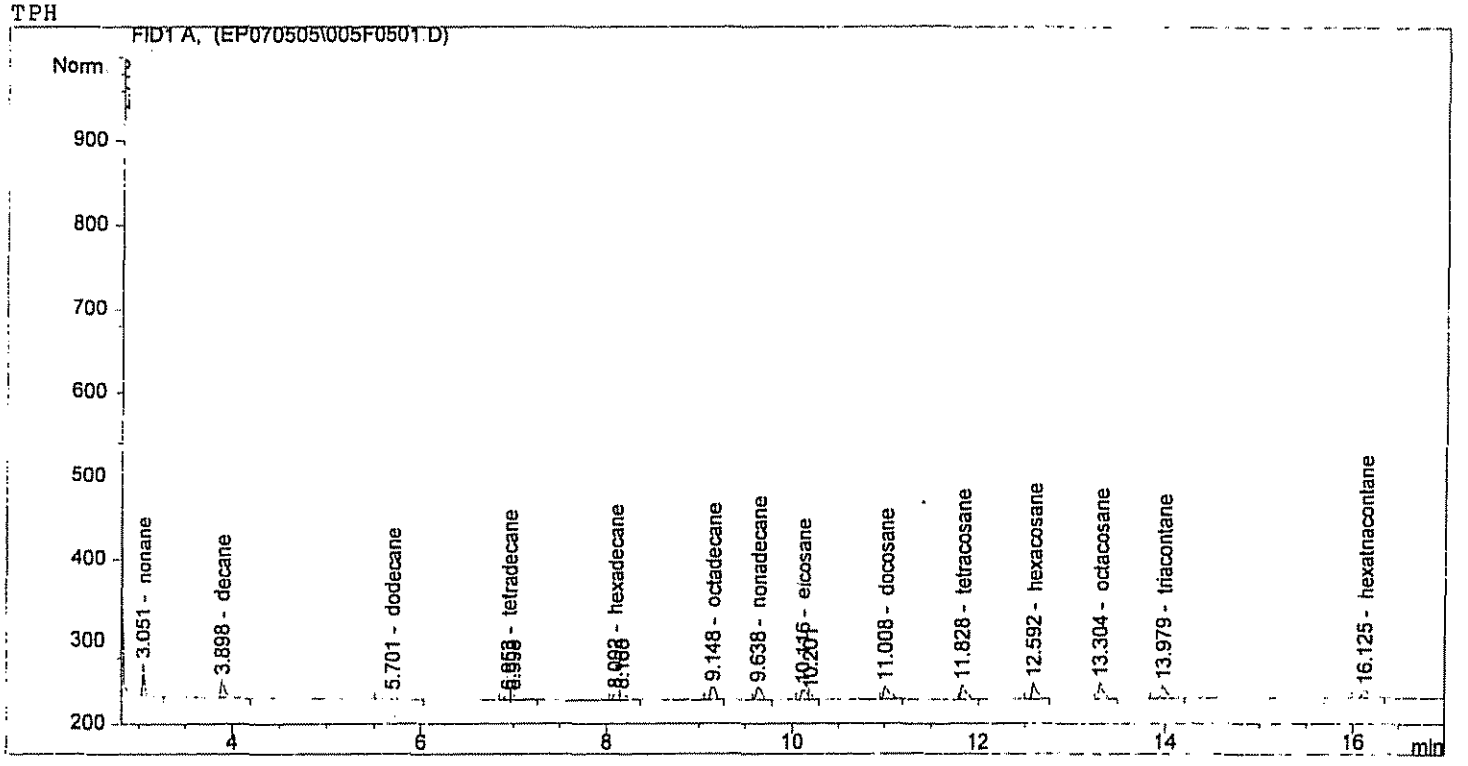
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:17:09 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type    Width     Area      Area     Name
  #   [min]           [min]   [pA*s]        %
----|-------|------|-------|----------|--------|----------------------
   1   3.051 BP      0.0241   63.57945 8.542e-5 nonane
   2   3.898 BP      0.0457   69.52576 9.341e-5 decane
   3   5.701 PV      0.1867   58.11040 7.807e-5 dodecane
   4   6.600         0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.953 PV      0.0485   18.31736 2.461e-5 tetradecane
   6   7.485         0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.092 PV      0.0599   30.26579 4.066e-5 hexadecane
   8   9.148 PV      0.0596   62.13025 8.347e-5 octadecane
   9   9.500         0.0000    0.00000  0.00000 OTP
  10   9.638 BV      0.0588   62.69368 8.423e-5 nonadecane
  11  10.116 VV      0.0553   47.14569 6.334e-5 eicosane
  12  11.008 BB      0.0600   64.16410 8.621e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.828	PB	0.0525	64.03179	8.603e-5	tetracosane
15	12.592	VB	0.0482	65.47491	8.797e-5	hexacosane
16	13.304	BB	0.0443	64.38484	8.650e-5	octacosane
17	13.979	VB	0.0519	63.16903	8.487e-5	triacontane
18	16.125	BB	0.0709	49.00692	6.584e-5	hexatriacontane

Totals : 781.99997 1.051e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.521	PV	0.0155	64.20905	8.627e-5	?
2	0.585	VV	0.0276	69.71010	9.366e-5	?
3	0.712	VV S	0.0486	1.41617e6	1.90265	?
4	1.750	VV S	0.8897	7.21088e7	96.87967	?
5	1.777	VV S	0.0153	7.12026e5	0.95662	?
6	1.843	PV T	0.0740	3.29682e4	0.04429	?
7	1.885	VV S	0.0408	1.41671e4	0.01903	?
8	1.934	VV S	0.1521	3.89642e4	0.05235	?
9	2.115	VV S	0.0395	1.23934e4	0.01665	?
10	2.170	VV S	0.0314	8898.58203	0.01196	?
11	2.199	VV S	0.0246	5647.13525	0.00759	?
12	2.238	VV S	0.0367	9367.01953	0.01258	?
13	2.289	VV S	0.0425	9846.37305	0.01323	?
14	2.350	VV S	0.0463	9718.13770	0.01306	?
15	2.407	VV S	0.0417	1.00959e4	0.01356	?
16	2.447	VV S	0.0309	5712.63965	0.00768	?
17	2.486	VV S	0.0376	6904.68115	0.00928	?
18	2.527	VV S	0.0702	1.12526e4	0.01512	?
19	2.613	VV S	0.0618	1.00827e4	0.01355	?
20	2.685	VV S	0.0287	2776.07471	0.00373	?
21	2.723	VV S	0.0341	2505.02124	0.00337	?
22	2.775	VBAS	0.0323	2004.13550	0.00269	?
23	6.998	VB	0.0995	41.64529	5.595e-5	?
24	8.168	VB	0.0670	31.63436	4.250e-5	?
25	10.201	VB	0.0450	14.71698	1.977e-5	?

Uncalib. totals : 7.44306e7 99.9989

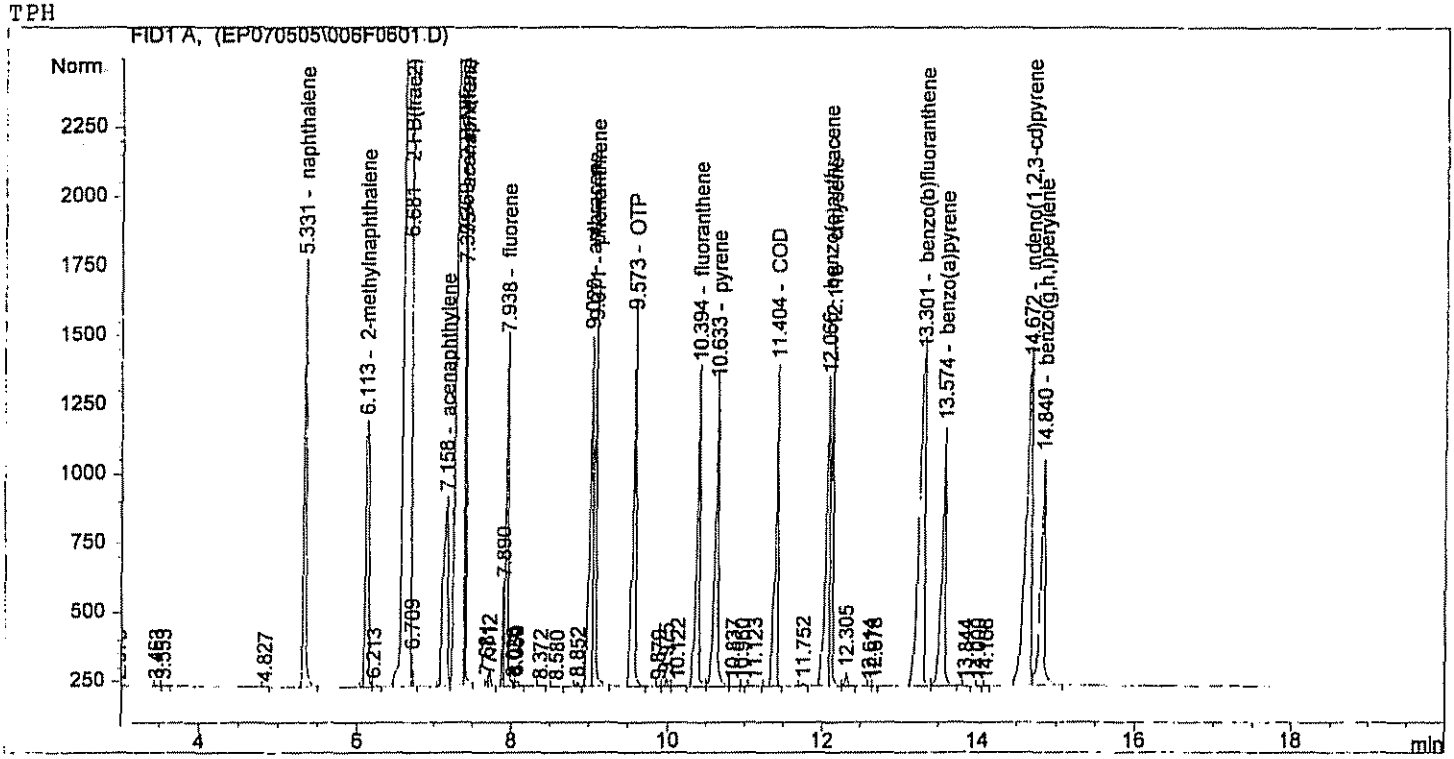
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date	: 7/5/2005 7:30:00 PM	Seq. Line :	6
Sample Name	: R 40 ical	Location :	Vial 6
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:22:50 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:23:05 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.331	PB	0.0293	3077.10938	0.00430	naphthalene
2	6.113	PV	0.0442	2919.46924	0.00408	2-methylnaphthalene
3	6.681	BV	0.0555	3.39225e4	0.04735	2-FB(frac2)
4	7.158	PV	0.0555	2908.37695	0.00406	acenaphthylene
5	7.369	VV	0.0643	2.40343e4	0.03355	2-BrN(frac)
6	7.395	VB	0.0154	2159.06787	0.00301	acenaphthene
7	7.938	VV	0.0276	2337.66382	0.00326	fluorene
8	9.020	BV	0.0336	3231.57983	0.00451	anthracene
9	9.071	VB	0.0259	2557.39355	0.00357	phenanthrene
10	9.573	BB	0.0330	3222.72534	0.00450	OTP
11	10.394	BV	0.0357	2949.98340	0.00412	fluoranthene
12	10.633	VB	0.0382	3117.37500	0.00435	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.404	BB	0.0364	2832.86084	0.00395	COD
14	12.066	BV	0.0407	3498.13501	0.00488	benzo(a)anthracene
15	12.118	VV	0.0253	2452.23462	0.00342	chrysene
16	13.301	BV	0.0695	6132.74707	0.00856	benzo(b)fluoranthene
17	13.349		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.574	VB	0.0446	2957.06860	0.00413	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.672	BV	0.0646	5866.15234	0.00819	indeno(1,2,3-cd)pyrene
21	14.840	VB	0.0479	3050.68335	0.00426	benzo(g,h,i)perylene

Totals : 1.13227e5 0.1581

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.573	BP S	0.0122	7586.06055	0.01059	?
2	0.653	VV S	0.0451	6.58377e5	0.91907	?
3	1.724	VV S	0.8725	7.07102e7	98.70834	?
4	1.801	VV S	0.0388	1.48257e4	0.02070	?
5	1.864	VV S	0.0489	1.48582e4	0.02074	?
6	1.915	VV S	0.0265	8182.16309	0.01142	?
7	1.950	VV S	0.0247	6569.26807	0.00917	?
8	1.977	VV S	0.0245	5267.52979	0.00735	?
9	2.006	VV S	0.0348	8034.66211	0.01122	?
10	2.059	VV S	0.0422	9352.93457	0.01306	?
11	2.107	VV S	0.0426	9707.95801	0.01355	?
12	2.159	VV S	0.0387	8381.02832	0.01170	?
13	2.207	VV S	0.0522	1.08873e4	0.01520	?
14	2.299	VV S	0.0752	1.13269e4	0.01581	?
15	2.378	VV S	0.0389	6377.16797	0.00890	?
16	2.418	VV S	0.0326	5568.22656	0.00777	?
17	2.465	VV S	0.0356	5317.47607	0.00742	?
18	2.522	VV S	0.0424	6129.83447	0.00856	?
19	2.571	VV S	0.0428	5401.29785	0.00754	?
20	2.623	VV S	0.0339	4015.69678	0.00561	?
21	2.653	VV S	0.0291	2476.95386	0.00346	?
22	2.696	VV S	0.0250	1451.90259	0.00203	?
23	2.749	VB S	0.0222	693.39868	0.00097	?
24	2.975	PP	0.0232	2.07011	2.890e-6	?
25	3.463	BB	0.0306	14.04676	1.961e-5	?
26	3.553	BB	0.0470	14.24751	1.989e-5	?
27	4.827	PB	0.0340	3.28712	4.589e-6	?
28	6.213	VB	0.0516	42.02866	5.867e-5	?
29	6.709	VB	0.0158	117.18262	0.00016	?
30	7.681	PV	0.0203	26.89666	3.755e-5	?
31	7.712	VB	0.0227	87.80135	0.00012	?
32	7.890	BV	0.0230	547.56219	0.00076	?
33	8.026	VV	0.0199	16.41841	2.292e-5	?
34	8.059	VB	0.0434	57.65916	8.049e-5	?
35	8.372	BB	0.0308	7.16673	1.000e-5	?
36	8.580	PP	0.0394	9.82675	1.372e-5	?
37	8.852	BP	0.0316	31.30010	4.369e-5	?
38	9.879	BV	0.0241	6.10458	8.522e-6	?
39	9.975	VV	0.0312	56.82285	7.932e-5	?
40	10.122	VP	0.0467	15.90412	2.220e-5	?
41	10.837	BB	0.0691	19.98311	2.790e-5	?
42	10.960	BB	0.0229	4.29571	5.997e-6	?
43	11.123	BB	0.0481	14.04146	1.960e-5	?
44	11.752	BP	0.0313	20.70277	2.890e-5	?
45	12.305	VB	0.0365	131.56999	0.00018	?
46	12.614	PV	0.0273	3.90746	5.455e-6	?
47	12.678	VB	0.0265	8.30177	1.159e-5	?
48	13.844	PP	0.0277	3.11171	4.344e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	14.000	PP	0.0257	5.20895	7.271e-6	?
50	14.106	BP	0.0260	3.34295	4.667e-6	?

Uncalib. totals : 7.15223e7 99.8419

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 7:57:34 PM          Seq. Line :   7
Sample Name     : R 20 ical                     Location : Vial 7
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:24:52 AM by DCS
                  (modified after loading)
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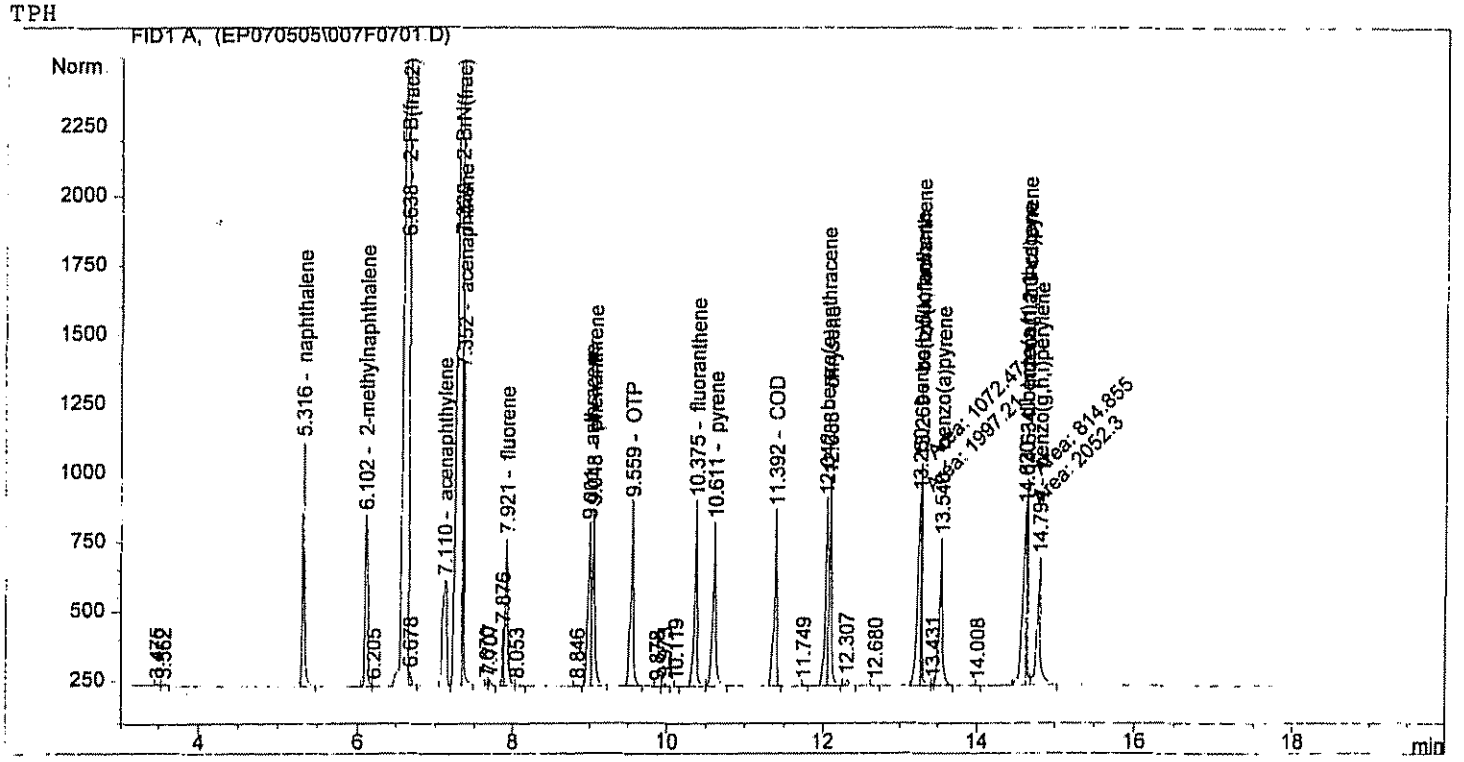
TPH

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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:24:52 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.316	BB	0.0266	1560.88293	0.00203	naphthalene
2	6.102	BV	0.0401	1488.68005	0.00194	2-methylnaphthalene
3	6.638	BV	0.0461	1.69993e4	0.02215	2-FB(frac2)
4	7.110	PV	0.0495	1483.72766	0.00193	acenaphthylene
5	7.320	VV	0.0471	1.18874e4	0.01549	2-BrN(frac)
6	7.352	VB	0.0179	1344.53394	0.00175	acenaphthene
7	7.921	VV	0.0328	1174.09924	0.00153	fluorene
8	9.001	BV	0.0356	1523.33997	0.00199	anthracene
9	9.048	VB	0.0308	1401.40002	0.00183	phenanthrene
10	9.559	BB	0.0348	1633.10645	0.00213	OTP
11	10.375	BB	0.0329	1480.49524	0.00193	fluoranthene
12	10.611	BB	0.0348	1549.50317	0.00202	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	BB	0.0313	1423.13940	0.00185	COD
14	12.042	BV	0.0356	1639.31689	0.00214	benzo(a)anthracene
15	12.088	VB	0.0261	1352.98071	0.00176	chrysene
16	13.250	MF	0.0484	1997.20630	0.00260	benzo(b)fluoranthene
17	13.269	FM	0.0221	1072.47473	0.00140	benzo(k)fluoranthene
18	13.540	VB	0.0372	1456.48926	0.00190	benzo(a)pyrene
19	14.620	MF	0.0536	2052.29810	0.00267	dibenzo(a,h)anthracene
20	14.634	FM	0.0181	814.85461	0.00106	indeno(1,2,3-cd)pyrene
21	14.794	VB	0.0437	1551.06067	0.00202	benzo(g,h,i)perylene

Totals : 5.68863e4 7.413e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.602	BV S	0.0129	8.49849e4	0.11075	?
2	0.705	VV S	0.0440	1.37523e6	1.79211	?
3	1.742	VV S	0.6541	7.50294e7	97.77352	?
4	1.908	VV S	0.0673	3.74246e4	0.04877	?
5	1.952	VV S	0.0396	1.21283e4	0.01580	?
6	1.991	VV S	0.0302	1.07727e4	0.01404	?
7	2.034	VV S	0.0422	1.35335e4	0.01764	?
8	2.141	VV S	0.0741	2.04535e4	0.02665	?
9	2.182	VV S	0.0267	8688.21094	0.01132	?
10	2.244	VV S	0.0500	1.36782e4	0.01782	?
11	2.286	VV S	0.0402	9538.84961	0.01243	?
12	2.339	VV S	0.0380	9001.33887	0.01173	?
13	2.385	VV S	0.0318	7613.07666	0.00992	?
14	2.426	VV S	0.0291	6637.50195	0.00865	?
15	2.460	VV S	0.0457	8927.53320	0.01163	?
16	2.518	VV S	0.0398	7637.46240	0.00995	?
17	2.580	VV S	0.0647	1.09379e4	0.01425	?
18	2.637	VV S	0.0596	1.08081e4	0.01408	?
19	2.749	VV S	0.0288	1986.04175	0.00259	?
20	2.779	VB S	0.0183	975.51318	0.00127	?
21	2.814	BB X	0.0116	47.10050	6.138e-5	?
22	3.475	PB	0.0277	12.00442	1.564e-5	?
23	3.562	BB	0.0356	8.19074	1.067e-5	?
24	6.205	VB	0.0407	21.58257	2.813e-5	?
25	6.678	VB	0.0297	92.83358	0.00012	?
26	7.670	PV	0.0219	16.38607	2.135e-5	?
27	7.707	VB	0.0279	40.37153	5.261e-5	?
28	7.876	BV	0.0219	302.78958	0.00039	?
29	8.053	VB	0.0449	30.28831	3.947e-5	?
30	8.846	BP	0.0302	15.07834	1.965e-5	?
31	9.878	PB	0.0225	1.79715	2.342e-6	?
32	9.973	BP	0.0272	22.23527	2.898e-5	?
33	10.119	BB	0.0235	2.33401	3.042e-6	?
34	11.749	BB	0.0271	10.53847	1.373e-5	?
35	12.307	BB	0.0479	69.49090	9.056e-5	?
36	12.680	BP	0.0368	5.62944	7.336e-6	?
37	13.431	BV	0.0221	12.97947	1.691e-5	?
38	14.008	PP	0.0226	2.48874	3.243e-6	?

Uncalib. totals : 7.66810e7 99.9259

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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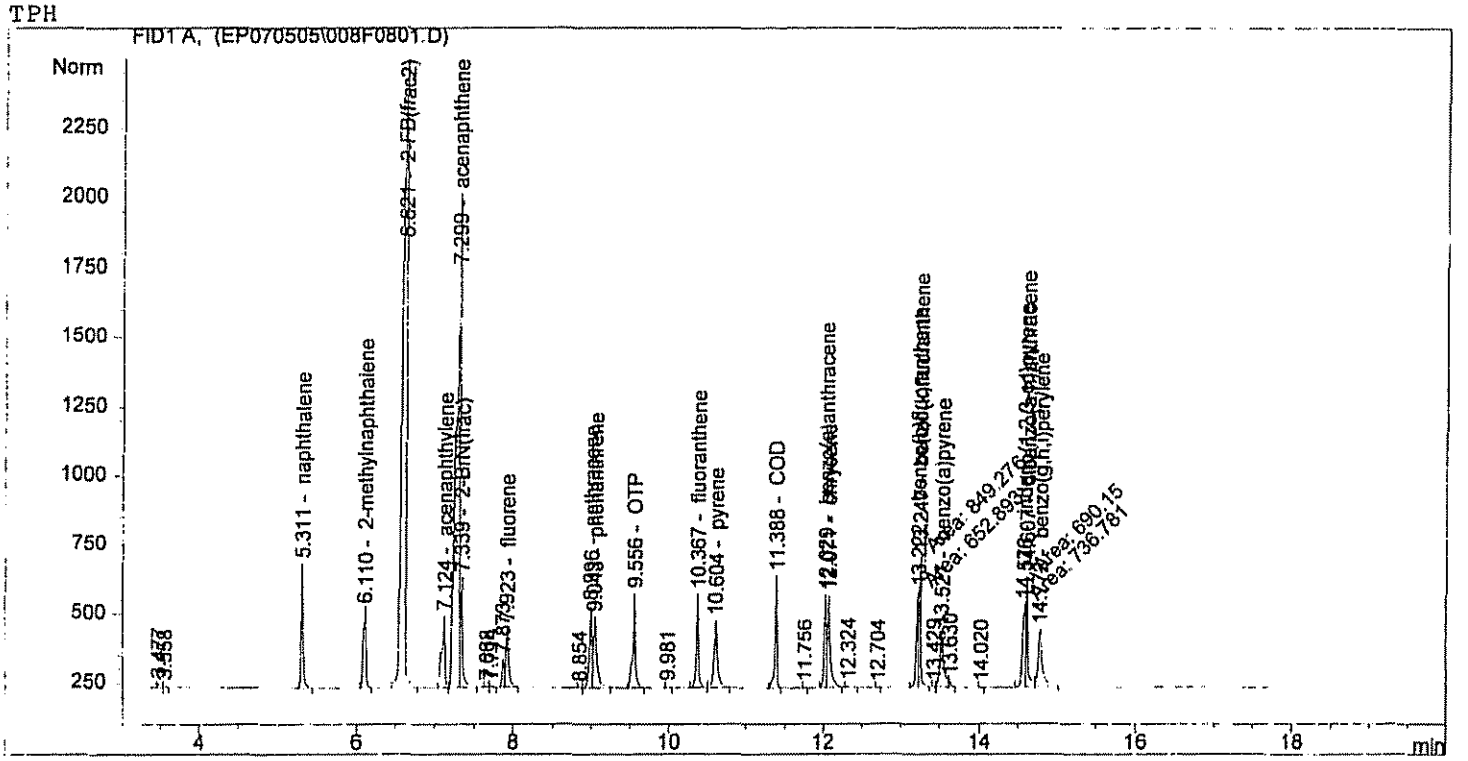
Injection Date	: 7/5/2005 8:24:17 PM	Seq. Line :	8
Sample Name	: R 10 ical	Location :	Vial 8
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:25:57 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:25:40 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.311	BB	0.0257	759.28735	0.00094	naphthalene
2	6.110	PB	0.0345	717.77917	0.00089	2-methylnaphthalene
3	6.621	PB	0.0436	8296.57129	0.01032	2-FB(frac2)
4	7.124	PV	0.0375	721.87189	0.00090	acenaphthylene
5	7.299	VV	0.0454	5749.29248	0.00715	acenaphthene
6	7.339	VB	0.0256	734.45514	0.00091	2-BrN(frac)
7	7.923	VB	0.0325	511.53058	0.00064	fluorene
8	8.996	VV	0.0340	684.11963	0.00085	anthracene
9	9.043	VB	0.0414	753.16272	0.00094	phenanthrene
10	9.556	BB	0.0336	802.95880	0.00100	OTP
11	10.367	BB	0.0320	724.76520	0.00090	fluoranthene
12	10.604	BB	0.0444	772.86615	0.00096	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.388	BB	0.0264	707.93549	0.00088	COD
14	12.029	BV	0.0299	655.07660	0.00081	benzo(a)anthracene
15	12.071	VB	0.0364	831.57806	0.00103	chrysene
16	13.222	MF	0.0315	652.89319	0.00081	benzo(b)fluoranthene
17	13.247	FM	0.0300	849.27576	0.00106	benzo(k)fluoranthene
18	13.527	VV	0.0462	669.95624	0.00083	benzo(a)pyrene
19	14.576	MF	0.0414	736.78082	0.00092	indeno(1,2,3-cd)pyrene
20	14.607	FM	0.0289	690.14990	0.00086	dibenzo(a,h)anthracene
21	14.772	VB	0.0545	785.48206	0.00098	benzo(g,h,i)perylene

Totals : 2.78078e4 3.459e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.566	PV S	0.0132	747.37988	0.00093	?
2	0.675	VV S	0.0292	3.96008e5	0.49263	?
3	1.820	VV S	0.9774	7.97979e7	99.26709	?
4	1.959	VV S	0.1138	3.89370e4	0.04844	?
5	2.068	VV S	0.0817	2.05034e4	0.02551	?
6	2.115	VV S	0.0531	1.24003e4	0.01543	?
7	2.185	VV S	0.0484	1.44270e4	0.01795	?
8	2.248	VV S	0.0385	8142.15771	0.01013	?
9	2.280	VV S	0.0282	6517.15088	0.00811	?
10	2.326	VV S	0.0314	7340.53955	0.00913	?
11	2.363	VV S	0.0372	6874.45264	0.00855	?
12	2.403	VV S	0.0357	7568.43799	0.00941	?
13	2.455	VV S	0.0411	8658.30078	0.01077	?
14	2.509	VV S	0.0340	7557.59131	0.00940	?
15	2.554	VV S	0.0299	5949.49072	0.00740	?
16	2.599	VV S	0.0469	8102.41602	0.01008	?
17	2.648	VV S	0.0348	3804.99854	0.00473	?
18	2.687	VV S	0.0280	2789.33472	0.00347	?
19	2.729	VV S	0.0309	2428.41943	0.00302	?
20	2.771	VB S	0.0301	2264.80884	0.00282	?
21	3.477	PB	0.0202	19.81381	2.465e-5	?
22	3.558	BB	0.0239	9.88446	1.230e-5	?
23	7.668	PV	0.0260	8.62177	1.073e-5	?
24	7.714	VB	0.0278	16.83376	2.094e-5	?
25	7.873	BV	0.0263	188.52881	0.00023	?
26	8.854	BP	0.0237	5.95888	7.413e-6	?
27	9.981	PP	0.0292	10.25769	1.276e-5	?
28	11.756	BB	0.0211	4.92660	6.129e-6	?
29	12.324	BP	0.0578	26.56639	3.305e-5	?
30	12.704	PB	0.0218	1.88195	2.341e-6	?
31	13.429	PV	0.0176	1.88680	2.347e-6	?
32	13.630	VB	0.0254	38.84804	4.833e-5	?
33	14.020	PB	0.0234	1.75642	2.185e-6	?

Uncalib. totals : 8.03592e7 99.9654

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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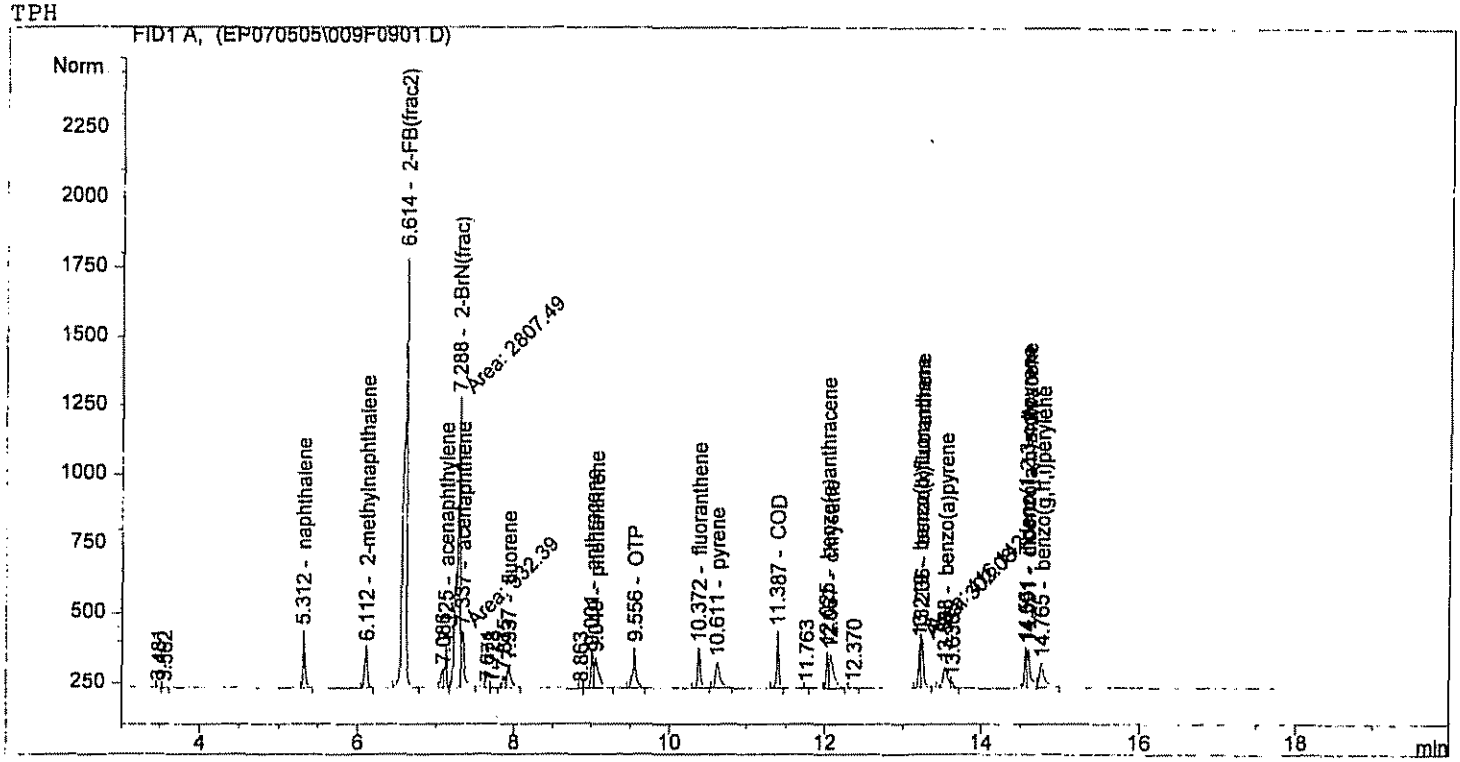
*** End of Report ***

Injection Date	: 7/5/2005 8:52:10 PM	Seq. Line :	9
Sample Name	: R 5 ical	Location :	Vial 9
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 7/6/2005 8:27:20 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/6/2005 8:27:44 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	BB	0.0275	381.19046	0.00046	naphthalene
2	6.112	PB	0.0344	365.53854	0.00045	2-methylnaphthalene
3	6.614	BB	0.0357	4271.07813	0.00520	2-FB(frac2)
4	7.125	VV	0.0234	228.60712	0.00028	acenaphthylene
5	7.288	MF	0.0448	2807.48755	0.00342	2-BrN(frac)
6	7.337	FM	0.0444	532.38989	0.00065	acenaphthene
7	7.937	VB	0.0445	266.79672	0.00033	fluorene
8	9.001	VV	0.0320	293.35999	0.00036	anthracene
9	9.049	VB	0.0533	435.87302	0.00053	phenanthrene
10	9.556	BB	0.0387	407.76004	0.00050	OTP
11	10.372	BB	0.0379	362.46796	0.00044	fluoranthene
12	10.611	BB	0.0614	391.06754	0.00048	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.387	BB	0.0265	359.22467	0.00044	COD
14	12.025	BV	0.0293	256.21942	0.00031	benzo(a)anthracene
15	12.067	VB	0.0519	490.22177	0.00060	chrysene
16	13.219	MF	0.0308	302.08035	0.00037	benzo(b)fluoranthene
17	13.236	FM	0.0383	416.14188	0.00051	benzo(k)fluoranthene
18	13.538	PV	0.0561	302.04449	0.00037	benzo(a)pyrene
19	14.561	BV	0.0301	289.19754	0.00035	indeno(1,2,3-cd)pyrene
20	14.591	VV	0.0378	380.25415	0.00046	dibenzo(a,h)anthracene
21	14.765	VB	0.0616	407.44254	0.00050	benzo(g,h,i)perylene

Totals : 1.39464e4 1.699e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.563	PV S	0.0140	759.74811	0.00093	?
2	0.683	VV S	0.0272	4.71086e5	0.57401	?
3	1.835	VV S	0.9971	8.14189e7	99.20795	?
4	1.950	PV T	0.0638	2.90373e4	0.03538	?
5	1.997	VV S	0.0228	8289.62305	0.01010	?
6	2.048	VV S	0.0489	1.32992e4	0.01620	?
7	2.093	VV S	0.0313	8470.81152	0.01032	?
8	2.137	VV S	0.0370	1.00365e4	0.01223	?
9	2.165	VV S	0.0329	7709.98682	0.00939	?
10	2.210	VV S	0.0343	7856.13281	0.00957	?
11	2.246	VV S	0.0270	5997.93506	0.00731	?
12	2.275	VV S	0.0240	5644.15088	0.00688	?
13	2.309	VV S	0.0357	8035.14502	0.00979	?
14	2.364	VV S	0.0360	7999.90137	0.00975	?
15	2.403	VV S	0.0385	8932.79004	0.01088	?
16	2.462	VV S	0.0381	7766.06934	0.00946	?
17	2.501	VV S	0.0397	7978.09717	0.00972	?
18	2.562	VV S	0.0350	7006.06787	0.00854	?
19	2.600	VV S	0.0308	6012.04736	0.00733	?
20	2.636	VV S	0.0245	4077.92383	0.00497	?
21	2.664	VV S	0.0264	2937.18262	0.00358	?
22	2.696	VV S	0.0469	4386.25098	0.00534	?
23	2.771	VB S	0.0397	2436.74902	0.00297	?
24	3.481	PB	0.0212	10.43116	1.271e-5	?
25	3.562	BP	0.0298	5.43903	6.627e-6	?
26	7.086	PV	0.0332	139.99332	0.00017	?
27	7.671	PV	0.0321	4.02950	4.910e-6	?
28	7.728	VP	0.0332	6.47859	7.894e-6	?
29	7.875	BV	0.0295	89.97723	0.00011	?
30	8.863	PV	0.0219	2.26688	2.762e-6	?
31	11.763	BB	0.0205	2.35931	2.875e-6	?
32	12.370	PP	0.0405	12.58713	1.534e-5	?
33	13.630	VB	0.0330	48.26193	5.881e-5	?

Uncalib. totals : 8.20550e7 99.9830

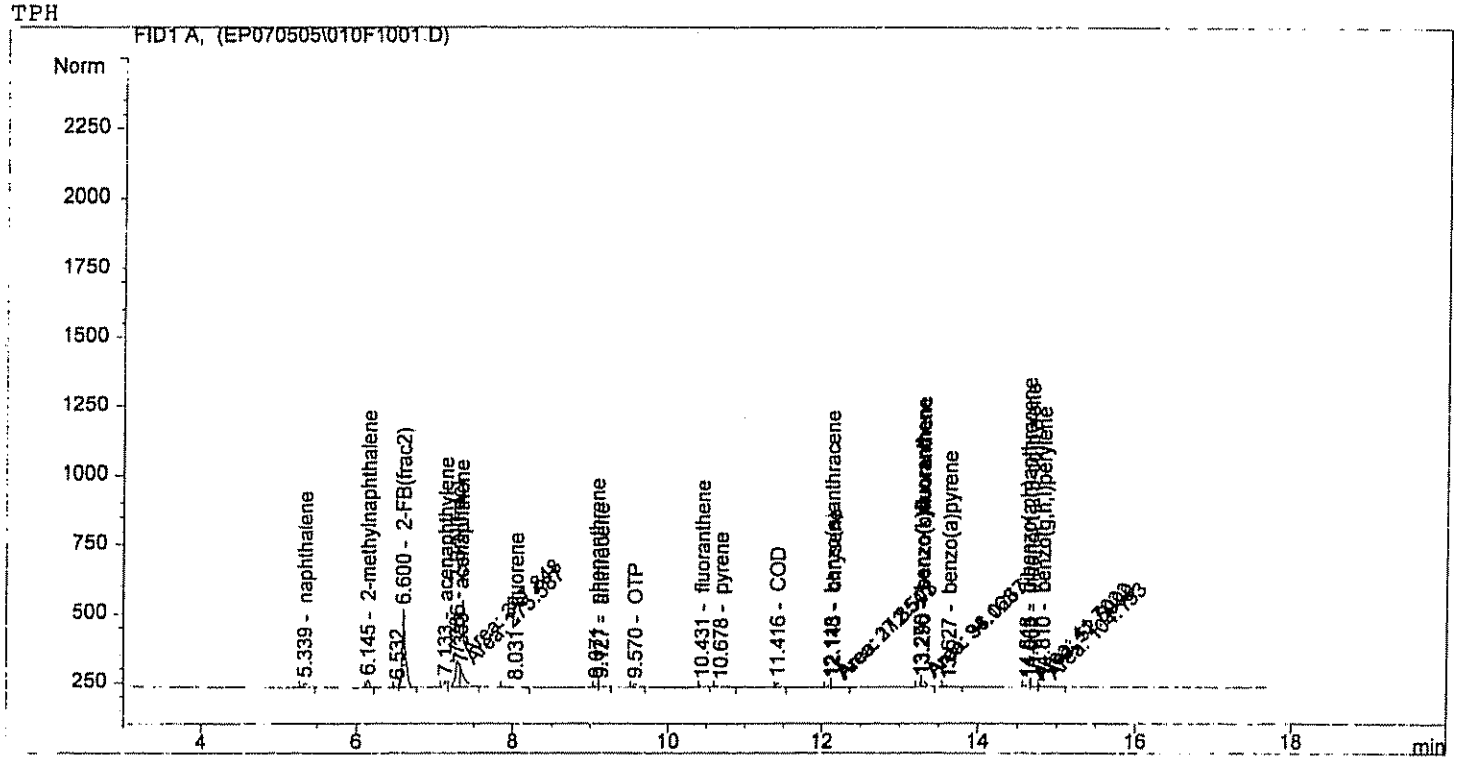
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

```
==========================================================================
Injection Date  : 7/5/2005 9:19:15 PM          Seq. Line :  10
Sample Name     : R 1 ical                      Location : Vial 10
Acq. Operator   : DCS                                Inj :  1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/6/2005 8:27:20 AM by DCS
                  (modified after loading)
```

TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/6/2005 8:27:44 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   5.339 BB     0.0512   64.31669 7.634e-5 naphthalene
   2   6.145 BB     0.0378   64.35564 7.638e-5 2-methylnaphthalene
   3   6.600 VB     0.0394  807.25494  0.00096 2-FB(frac2)
   4   7.133 BV     0.0339   58.26943 6.916e-5 acenaphthylene
   5   7.286 MF     0.0601  347.84760  0.00041 2-BrN(frac)
   6   7.333 FM     0.0694  275.58743  0.00033 acenaphthene
   7   8.031 BB     0.1123   62.26244 7.390e-5 fluorene
   8   9.071 PV     0.0353   30.46159 3.615e-5 phenanthrene
   9   9.127 VB     0.0686   61.32705 7.279e-5 anthracene
  10   9.570 PB     0.0630   60.99045 7.239e-5 OTP
  11  10.431 PB     0.0520   47.63327 5.654e-5 fluoranthene
  12  10.678 PB     0.0873   55.33611 6.568e-5 pyrene
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.416	PB	0.0518	62.48400	7.416e-5	COD
14	12.118	MF	0.0344	27.85410	3.306e-5	benzo(a)anthracene
15	12.143	FM	0.1057	112.50302	0.00013	chrysene
16	13.276	MF	0.0271	34.16298	4.055e-5	benzo(k)fluoranthene
17	13.290	FM	0.0687	98.02668	0.00012	benzo(b)fluoranthene
18	13.627	BP	0.0798	59.56261	7.069e-5	benzo(a)pyrene
19	14.618	MF	0.0534	41.70220	4.950e-5	dibenzo(a,h)anthracene
20	14.663	MF	0.0767	52.59986	6.243e-5	indeno(1,2,3-cd)pyrene
21	14.810	FM	0.1217	104.19251	0.00012	benzo(g,h,i)perylene

Totals : 2528.73061 3.001e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.586	BV S	0.0143	4333.71777	0.00514	?
2	1.839	VP S	1.0271	8.40868e7	99.80158	?
3	2.008	VV S	0.0761	3.65618e4	0.04339	?
4	2.059	VV S	0.0345	1.20447e4	0.01430	?
5	2.112	VV S	0.0375	1.27805e4	0.01517	?
6	2.156	VV S	0.0405	1.08336e4	0.01286	?
7	2.224	VV S	0.0529	1.29609e4	0.01538	?
8	2.281	VV S	0.0449	1.06941e4	0.01269	?
9	2.351	VV S	0.0485	1.21059e4	0.01437	?
10	2.403	VV S	0.0348	8085.68506	0.00960	?
11	2.452	VV S	0.0350	7751.59668	0.00920	?
12	2.492	VV S	0.0360	6734.70947	0.00799	?
13	2.553	VV S	0.0550	1.09048e4	0.01294	?
14	2.609	VV S	0.0359	6701.88184	0.00795	?
15	2.653	VV S	0.0348	4843.07471	0.00575	?
16	2.701	VV S	0.0276	2745.96802	0.00326	?
17	2.731	VV S	0.0322	2425.09570	0.00288	?
18	2.781	VB S	0.0288	2030.10254	0.00241	?
19	2.817	BB T	0.0179	88.50211	0.00011	?
20	6.532	PV	0.0308	19.19580	2.278e-5	?

Uncalib. totals : 8.42515e7 99.9970

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

EPH CVS Raw Data

Attachment 3

EPH Laboratory Reporting Form

) Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/19/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	24.9
C_{19}-C_{36} Aliphatics	160	7.5
C_{11}-C_{22} Aromatics	340	-4.4

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==========================================================================
Injection Date  : 7/19/2005 5:34:40 PM          Seq. Line :   4
Sample Name     : K 20 ccal                      Location : Vial 4
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/20/2005 10:27:52 AM by DCS
                  (modified after loading)
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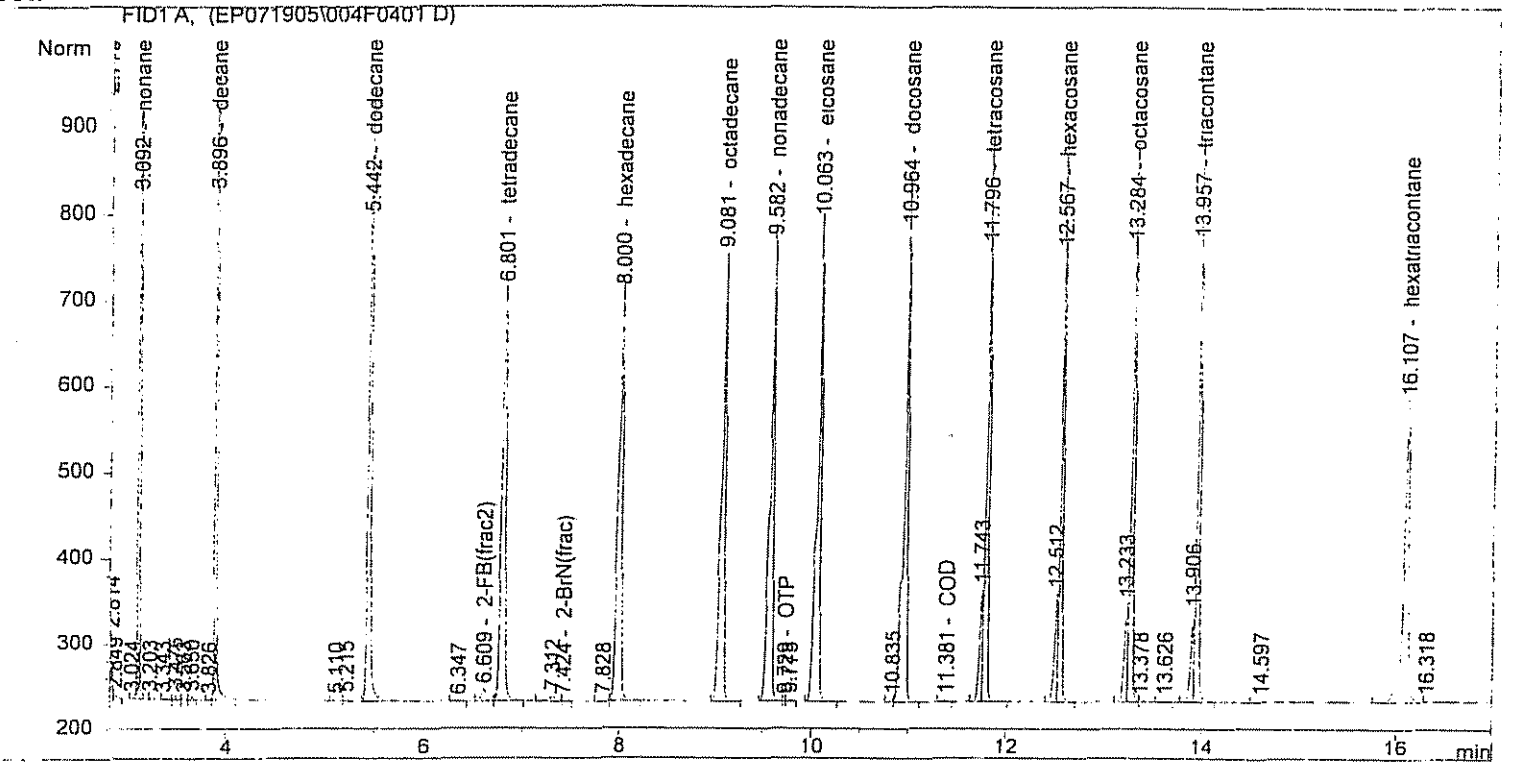
TPH




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/20/2005 10:27:46 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|--------------------
   1   3.092 VV     0.0161 1394.69165  0.00171 nonane
   2   3.896 VB     0.0193 1385.35657  0.00169 decane
   3   5.442 VB     0.0303 1406.71387  0.00172 dodecane
   4   6.609 VV     0.0479   46.46425 5.682e-5 2-FB(frac2)
   5   6.801 VB     0.0399 1400.50928  0.00171 tetradecane
   6   7.424 VB     0.0366    3.17157 3.878e-6 2-BrN(frac)
   7   8.000 VB     0.0394 1407.92212  0.00172 hexadecane
   8   9.081 VV     0.0378 1425.30493  0.00174 octadecane
   9   9.582 VV     0.0368 1429.14917  0.00175 nonadecane
  10   9.729 VV     0.0206    1.88091 2.300e-6 OTP
  11  10.063 VB     0.0352 1419.77478  0.00174 eicosane
  12  10.964 VB     0.0330 1413.01208  0.00173 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.381	BB	0.0297	4.61531	5.644e-6	COD
14	11.796	VB	0.0259	1138.22534	0.00139	tetracosane
15	12.567	VB	0.0268	1153.91077	0.00141	hexacosane
16	13.284	VV	0.0276	1148.93469	0.00141	octacosane
17	13.957	VB	0.0277	1175.29028	0.00144	triacontane
18	16.107	BV	0.0525	1282.33142	0.00157	hexatriacontane

Totals : 1.86373e4 2.279e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.554	PV	0.0222	178.88728	0.00022	?
2	0.589	VV	0.0187	72.02682	8.808e-5	?
3	0.695	VV S	0.0315	7.18262e5	0.87835	?
4	1.788	VV S	0.6975	8.01072e7	97.96173	?
5	1.881	VV S	0.0170	7.88402e5	0.96412	?
6	1.970	VV S	0.0547	1.74299e4	0.02131	?
7	2.025	VV S	0.0325	1.02489e4	0.01253	?
8	2.062	VV S	0.0307	8969.55273	0.01097	?
9	2.115	VV S	0.0363	1.01861e4	0.01246	?
10	2.163	VV S	0.0346	9984.67578	0.01221	?
11	2.199	VV S	0.0325	8823.48340	0.01079	?
12	2.255	VV S	0.0361	8977.46191	0.01098	?
13	2.293	VV S	0.0279	6585.34521	0.00805	?
14	2.344	VV S	0.0513	1.09947e4	0.01345	?
15	2.404	VV S	0.0445	8441.81836	0.01032	?
16	2.442	VV S	0.0385	6607.91650	0.00808	?
17	2.526	VV S	0.0611	1.20815e4	0.01477	?
18	2.592	VV S	0.0424	8235.04688	0.01007	?
19	2.637	VV S	0.0277	4482.46045	0.00548	?
20	2.669	VV S	0.0236	2611.97021	0.00319	?
21	2.705	VV S	0.0258	2369.45776	0.00290	?
22	2.740	VV S	0.0248	1683.41382	0.00206	?
23	2.779	VBAS	0.0280	1332.37878	0.00163	?
24	2.814	BP	0.0115	16.19221	1.980e-5	?
25	2.849	VP	0.0122	1.76191	2.155e-6	?
26	3.024	VV	0.0204	1.44133	1.763e-6	?
27	3.203	VV	0.0355	6.73421	8.235e-6	?
28	3.343	VP	0.0173	1.21970	1.492e-6	?
29	3.475	BV	0.0178	7.21961	8.829e-6	?
30	3.563	VV	0.0364	4.89123	5.981e-6	?
31	3.650	VV	0.0193	5.56248	6.802e-6	?
32	3.826	BP	0.0198	1.67924	2.054e-6	?
33	5.110	BV	0.0449	5.53853	6.773e-6	?
34	5.215	VP	0.0277	6.42840	7.861e-6	?
35	6.347	BP	0.0431	3.38879	4.144e-6	?
36	7.312	PV	0.0686	29.62767	3.623e-5	?
37	7.828	VP	0.0424	6.96966	8.523e-6	?
38	9.775	VV	0.0406	6.00874	7.348e-6	?
39	10.835	VV	0.0335	6.95092	8.500e-6	?
40	11.743	VV	0.0307	280.49057	0.00034	?
41	12.512	VV	0.0293	265.73804	0.00032	?
42	13.233	VV	0.0326	263.93616	0.00032	?
43	13.378	VV	0.0363	3.61074	4.416e-6	?
44	13.626	BV	0.0475	5.05289	6.179e-6	?
45	13.906	VV	0.0307	231.90654	0.00028	?
46	14.597	BP	0.0374	2.92804	3.581e-6	?
47	16.318	VB	0.0886	10.39069	1.271e-5	?

Uncalib. totals : 8.17553e7 99.9772

Results obtained with enhanced integrator!

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/19/2005 6:01:47 PM          Seq. Line :   5
Sample Name     : R 20 ccal                      Location : Vial 5
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
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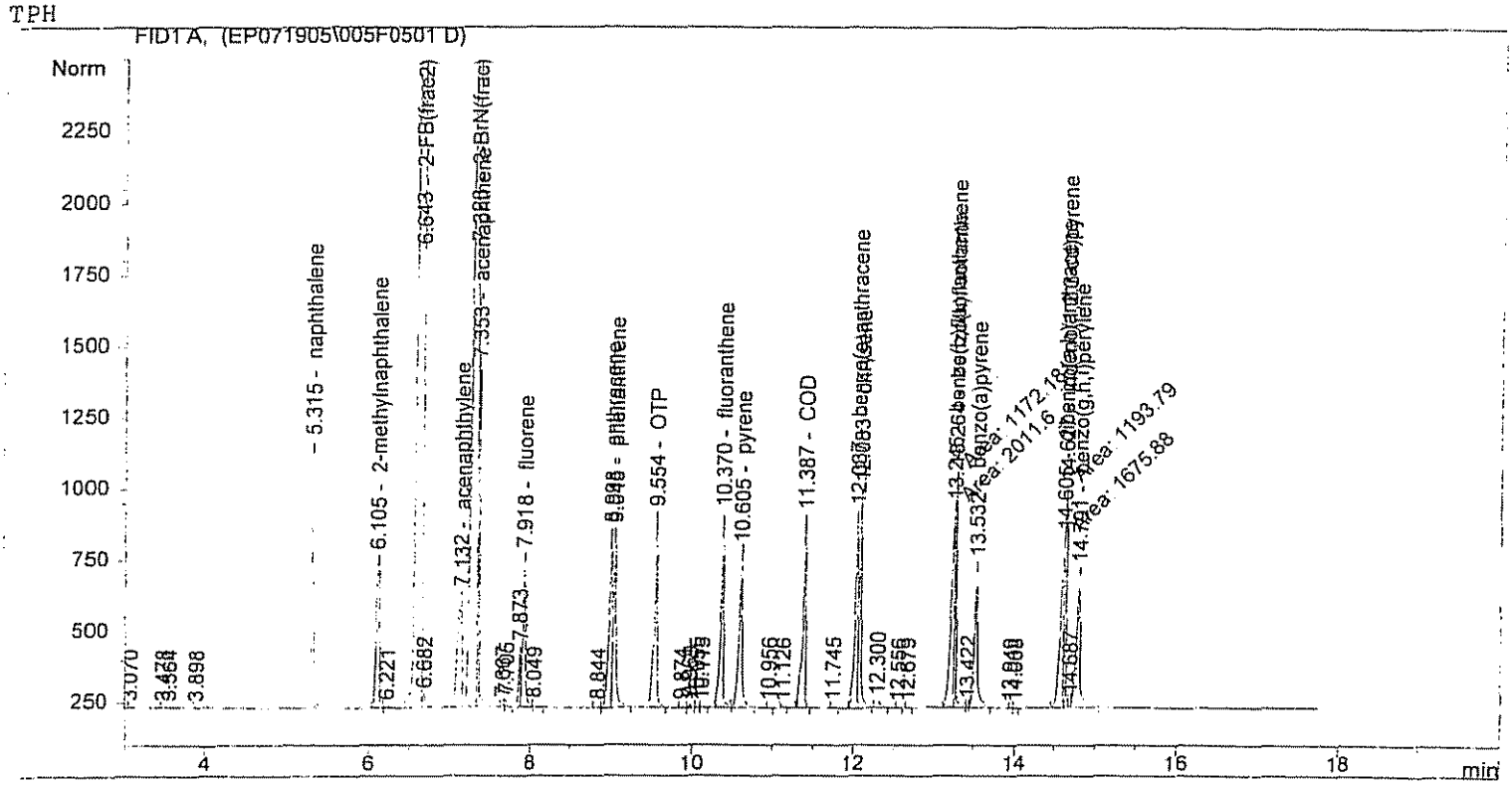



```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.315	BB	0.0268	1588.62512	0.00204	naphthalene
2	6.105	BV	0.0482	1525.93494	0.00196	2-methylnaphthalene
3	6.643	PV	0.0492	1.89573e4	0.02439	2-FB(frac2)
4	7.132	PV	0.0496	1534.58826	0.00197	acenaphthylene
5	7.323	VV	0.0506	1.33669e4	0.01720	2-BrN(frac)
6	7.353	VB	0.0168	1324.10339	0.00170	acenaphthene
7	7.918	VV	0.0326	1182.54199	0.00152	fluorene
8	8.998	VV	0.0347	1591.64075	0.00205	anthracene
9	9.045	VB	0.0329	1442.16797	0.00186	phenanthrene
10	9.554	PB	0.0346	1672.17041	0.00215	OTP
11	10.370	BV	0.0312	1533.08545	0.00197	fluoranthene
12	10.605	VB	0.0388	1616.70081	0.00208	pyrene
13	11.387	BB	0.0302	1457.40332	0.00188	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	12.037	BV	0.0330	1657.43237	0.00213	benzo(a)anthracene
15	12.083	VB	0.0269	1444.67468	0.00186	chrysene
16	13.245	MF	0.0474	2011.59656	0.00259	benzo(b)fluoranthene
17	13.264	FM	0.0236	1172.18262	0.00151	benzo(k)fluoranthene
18	13.532	VB	0.0404	1508.04736	0.00194	benzo(a)pyrene
19	14.605	MF	0.0463	1675.88281	0.00216	dibenzo(a,h)anthracene
20	14.627	FM	0.0256	1193.79199	0.00154	indeno(1,2,3-cd)pyrene
21	14.791	VB	0.0409	1544.83081	0.00199	benzo(g,h,i)perylene
Totals :				6.10016e4	7.850e-2	

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.571	PV S	6.79e-3	9771.10156	0.01257	?
2	0.612	VV S	0.0165	1.13791e5	0.14643	?
3	0.712	VV S	0.0508	1.75373e6	2.25670	?
4	1.772	VP S	0.6582	7.56154e7	97.30189	?
5	1.887	VV S	0.0448	2.22186e4	0.02859	?
6	1.921	VV S	0.0283	8269.48535	0.01064	?
7	1.952	VV S	0.0227	6977.31348	0.00898	?
8	1.987	VV S	0.0290	9434.12207	0.01214	?
9	2.039	VV S	0.0381	9740.00879	0.01253	?
10	2.077	VV S	0.0419	1.06027e4	0.01364	?
11	2.126	VV S	0.0296	8165.40332	0.01051	?
12	2.169	VV S	0.0317	8514.03809	0.01096	?
13	2.212	VV S	0.0382	9423.58301	0.01213	?
14	2.269	VV S	0.0300	6343.60498	0.00816	?
15	2.296	VV S	0.0235	4242.09619	0.00546	?
16	2.337	VV S	0.0483	8448.43555	0.01087	?
17	2.397	VV S	0.0375	6970.23975	0.00897	?
18	2.444	VV S	0.0430	7614.58789	0.00980	?
19	2.501	VV S	0.0569	1.00221e4	0.01290	?
20	2.580	VV S	0.0447	8014.95264	0.01031	?
21	2.629	VV S	0.0387	5388.41650	0.00693	?
22	2.670	VV S	0.0232	2057.79980	0.00265	?
23	2.701	VV S	0.0440	2808.69727	0.00361	?
24	2.754	VB S	0.0410	2397.75537	0.00309	?
25	3.070	PB	0.0207	2.35168	3.026e-6	?
26	3.478	PB	0.0286	4.62743	5.955e-6	?
27	3.564	BB	0.0424	5.59216	7.196e-6	?
28	3.898	BB	0.0293	3.60847	4.643e-6	?
29	6.221	VB	0.0474	23.00505	2.960e-5	?
30	6.682	VB	0.0290	91.00877	0.00012	?
31	7.667	PV	0.0246	19.17024	2.467e-5	?
32	7.705	VB	0.0273	44.98828	5.789e-5	?
33	7.873	BV	0.0248	343.61380	0.00044	?
34	8.049	VB	0.0434	29.06908	3.741e-5	?
35	8.844	BP	0.0333	15.92584	2.049e-5	?
36	9.874	PB	0.0287	7.97183	1.026e-5	?
37	9.969	BV	0.0311	25.14812	3.236e-5	?
38	10.055	VV	0.0365	6.00004	7.721e-6	?
39	10.115	VB	0.0296	5.20737	6.701e-6	?
40	10.956	BP	0.0230	2.78638	3.586e-6	?
41	11.126	PP	0.0308	3.23862	4.167e-6	?
42	11.745	BB	0.0336	13.42497	1.728e-5	?
43	12.300	BB	0.0524	81.71459	0.00011	?
44	12.556	BP	0.0208	1.95755	2.519e-6	?
45	12.679	PB	0.0286	3.97943	5.121e-6	?
46	13.422	VV	0.0247	16.77925	2.159e-5	?
47	13.949	BP	0.0236	3.10215	3.992e-6	?
48	14.008	VP	0.0240	3.10104	3.990e-6	?
49	14.687	VV	0.0260	51.25044	6.595e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
Uncalib. totals :				7.76511e7	99.9215	

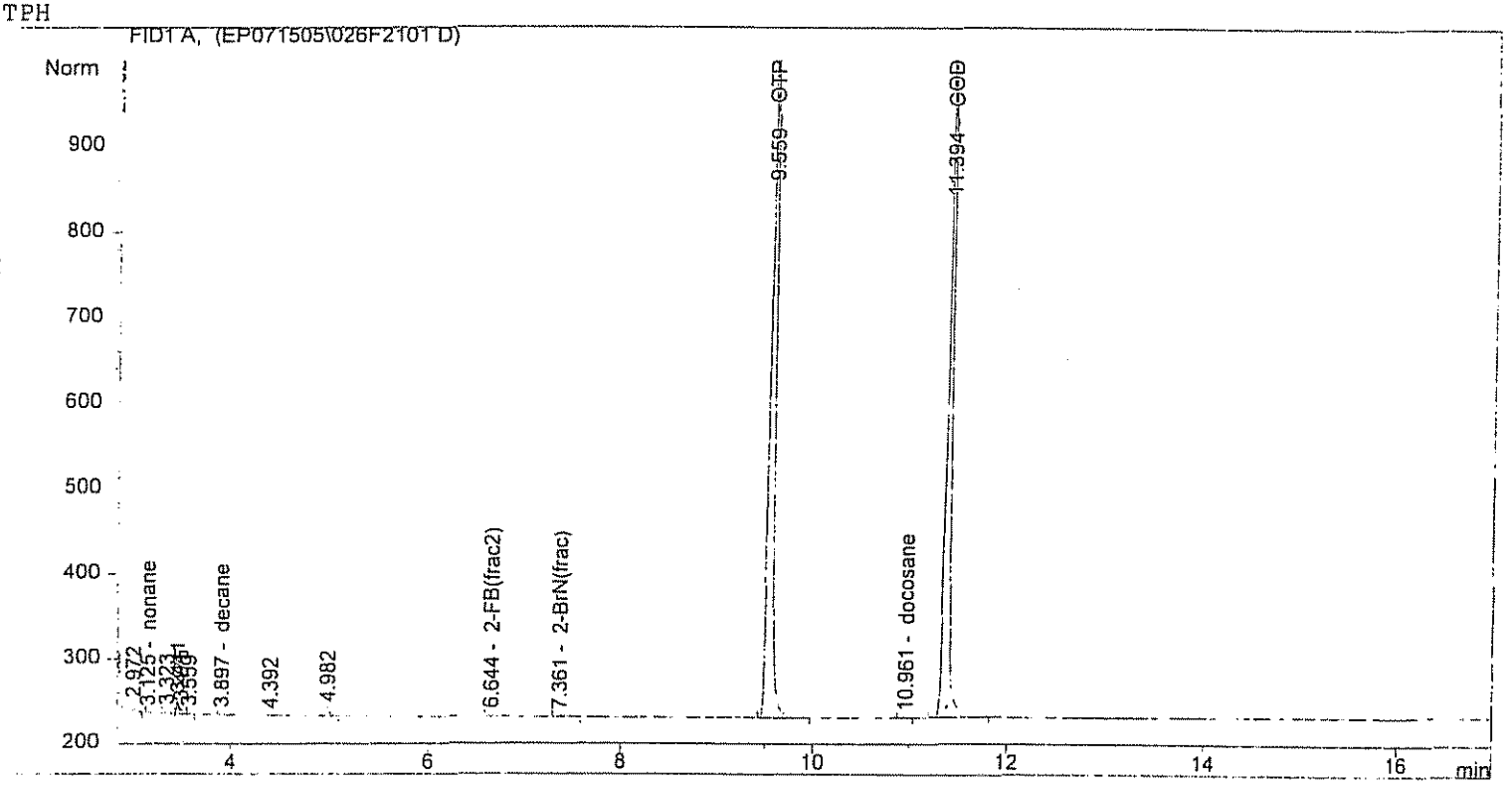
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

EPH QC, Blanks Raw Data

```
Injection Date  : 7/16/2005 1:26:28 AM          Seq. Line :  21
Sample Name     : pb3239                         Location : Vial 26
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071505.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|--------------------
   1   3.125 VV      0.0177    1.28092 1.576e-6 nonane
   2   3.897 VV      0.0343    4.85112 5.969e-6 decane
   3   5.541         0.0000    0.00000  0.00000 dodecane
   4   6.644 BB      0.0841   17.96952 2.211e-5 2-FB(frac2)
   5   6.898         0.0000    0.00000  0.00000 tetradecane
   6   7.361 BB      0.0924   14.02260 1.725e-5 2-BrN(frac)
   7   8.095         0.0000    0.00000  0.00000 hexadecane
   8   9.172         0.0000    0.00000  0.00000 octadecane
   9   9.559 PB      0.0376 3193.18994  0.00393 OTP
  10   9.581         0.0000    0.00000  0.00000 nonadecane
  11  10.154         0.0000    0.00000  0.00000 eicosane
  12  10.961 PP      0.0383    3.08994 3.802e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.394	PB	0.0341	2875.88379	0.00354	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.373		0.0000	0.00000	0.00000	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6110.28783 7.519e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.552	PV	0.0273	251.16156	0.00031	?
2	0.590	VV	8.45e-3	467.82321	0.00058	?
3	1.839	VV S	1.0000	8.03198e7	98.83352	?
4	1.874	VV S	0.0173	7.91380e5	0.97379	?
5	1.911	VV S	0.0193	9147.45313	0.01126	?
6	1.964	VV S	0.0410	1.46307e4	0.01800	?
7	2.015	VV S	0.0357	1.17298e4	0.01443	?
8	2.067	VV S	0.0551	1.47575e4	0.01816	?
9	2.130	VV S	0.0397	9817.76953	0.01208	?
10	2.172	VV S	0.0315	9294.58008	0.01144	?
11	2.221	VV S	0.0437	1.03892e4	0.01278	?
12	2.274	VV S	0.0413	9252.77734	0.01139	?
13	2.326	VV S	0.0364	8306.57227	0.01022	?
14	2.373	VV S	0.0312	7290.53125	0.00897	?
15	2.408	VV S	0.0397	6303.20361	0.00776	?
16	2.463	VV S	0.0347	7018.77539	0.00864	?
17	2.499	VV S	0.0295	4602.51074	0.00566	?
18	2.544	VV S	0.0407	7071.49414	0.00870	?
19	2.585	VV S	0.0380	7572.50342	0.00932	?
20	2.638	VV S	0.0313	4325.48535	0.00532	?
21	2.674	VV S	0.0384	3783.23291	0.00466	?
22	2.723	VV S	0.0242	1941.89270	0.00239	?
23	2.762	VBAS	0.0469	2435.71826	0.00300	?
24	2.972	VV	0.0183	11.86626	1.460e-5	?
25	3.323	VP	0.0225	5.38576	6.627e-6	?
26	3.441	VV	0.0174	21.59073	2.657e-5	?
27	3.475	VV	0.0280	17.96176	2.210e-5	?
28	3.559	VV	0.0414	7.94483	9.776e-6	?
29	4.392	VP	0.0229	1.58713	1.953e-6	?
30	4.982	VV	0.0315	22.17945	2.729e-5	?

Uncalib. totals : 8.12616e7 99.9925

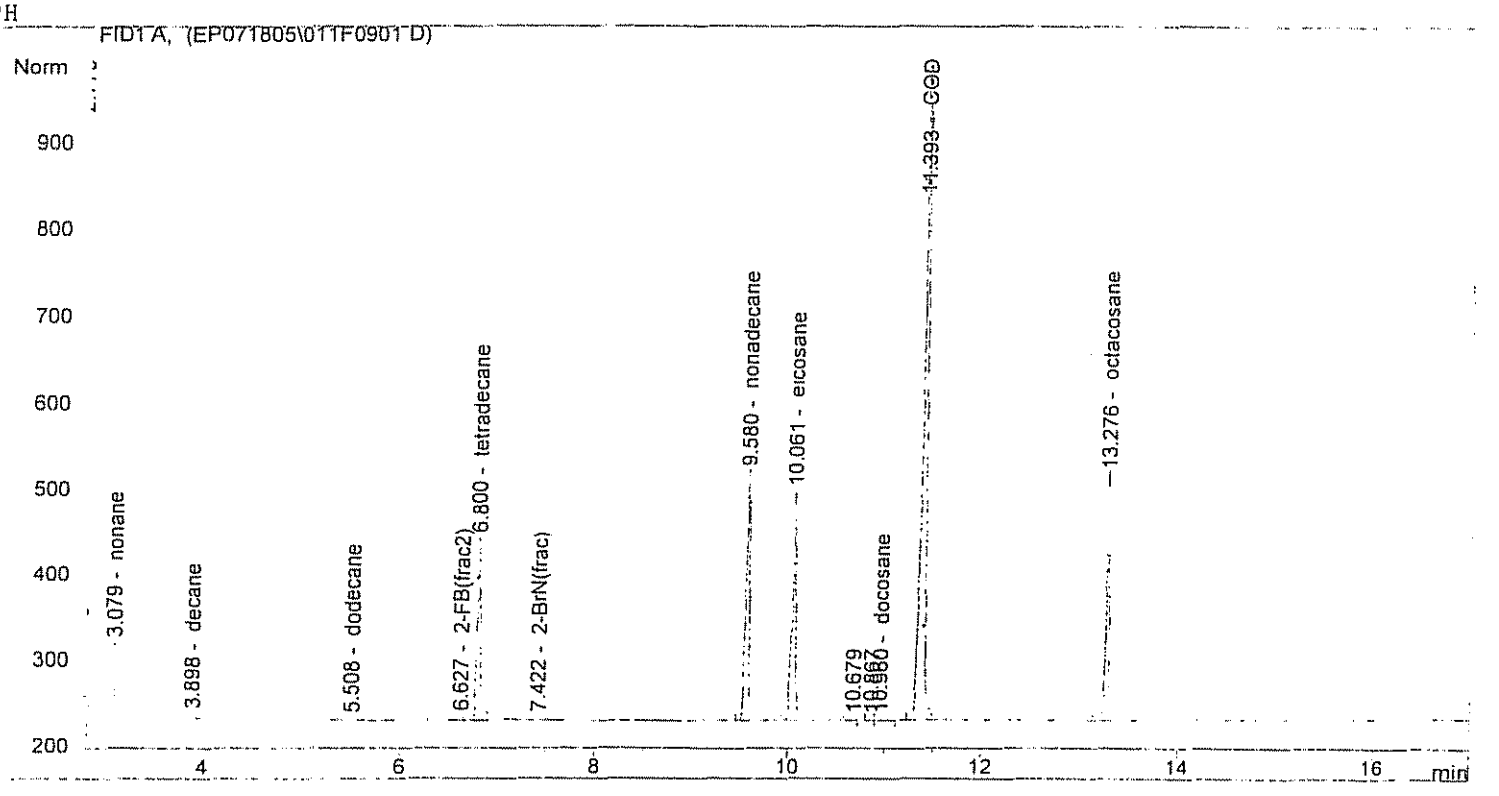
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/18/2005 6:49:29 PM          Seq. Line :   9
Sample Name     : lcs3239 x1 K                   Location : Vial 11
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.079	VB	0.0175	97.18095	0.00012	nonane
2	3.898	VB	0.0306	9.09840	1.116e-5	decane
3	5.508	PP	0.1423	13.73493	1.684e-5	dodecane
4	6.627	VV	0.0511	14.78770	1.813e-5	2-FB(frac2)
5	6.800	VB	0.0420	581.09906	0.00071	tetradecane
6	7.422	PP	0.0877	14.21009	1.742e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.570		0.0000	0.00000	0.00000	OTP
10	9.580	VB	0.0374	755.15521	0.00093	nonadecane
11	10.061	VB	0.0345	652.38141	0.00080	eicosane
12	10.960	VB	0.0636	7.38843	9.059e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.393	PP	0.0322	2472.22656	0.00303	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.658		0.0000	0.00000	0.00000	hexacosane
16	13.276	PB	0.0327	631.40448	0.00077	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5248.66722 6.436e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.546	VV	0.0247	71.73355	8.796e-5	?
2	0.588	VV	0.0263	51.06782	6.262e-5	?
3	1.803	VV S	0.9970	8.05138e7	98.72376	?
4	1.872	VV S	0.0190	8.75857e5	1.07395	?
5	1.913	PV T	0.1345	2.22392e4	0.02727	?
6	1.966	VV S	0.0231	8353.50195	0.01024	?
7	2.009	VV S	0.0288	9933.52441	0.01218	?
8	2.058	VV S	0.0467	1.24508e4	0.01527	?
9	2.101	VV S	0.0308	1.03093e4	0.01264	?
10	2.154	VV S	0.0409	1.02531e4	0.01257	?
11	2.198	VV S	0.0307	8101.91895	0.00993	?
12	2.232	VV S	0.0265	5949.42285	0.00730	?
13	2.268	VV S	0.0342	8317.28809	0.01020	?
14	2.316	VV S	0.0339	8858.45996	0.01086	?
15	2.368	VV S	0.0409	8727.22461	0.01070	?
16	2.409	VV S	0.0330	6352.25635	0.00779	?
17	2.479	VV S	0.0573	1.19261e4	0.01462	?
18	2.527	VV S	0.0272	4991.91895	0.00612	?
19	2.564	VV S	0.0355	7008.59473	0.00859	?
20	2.634	VV S	0.0549	7472.72949	0.00916	?
21	2.681	VV S	0.0397	3767.55908	0.00462	?
22	2.725	VV S	0.0303	2753.04761	0.00338	?
23	2.770	VBAS	0.0280	1827.89551	0.00224	?
24	10.679	VV	0.0442	3.96767	4.865e-6	?
25	10.867	VV	0.0464	4.40627	5.403e-6	?

Uncalib. totals : 8.15494e7 99.9936

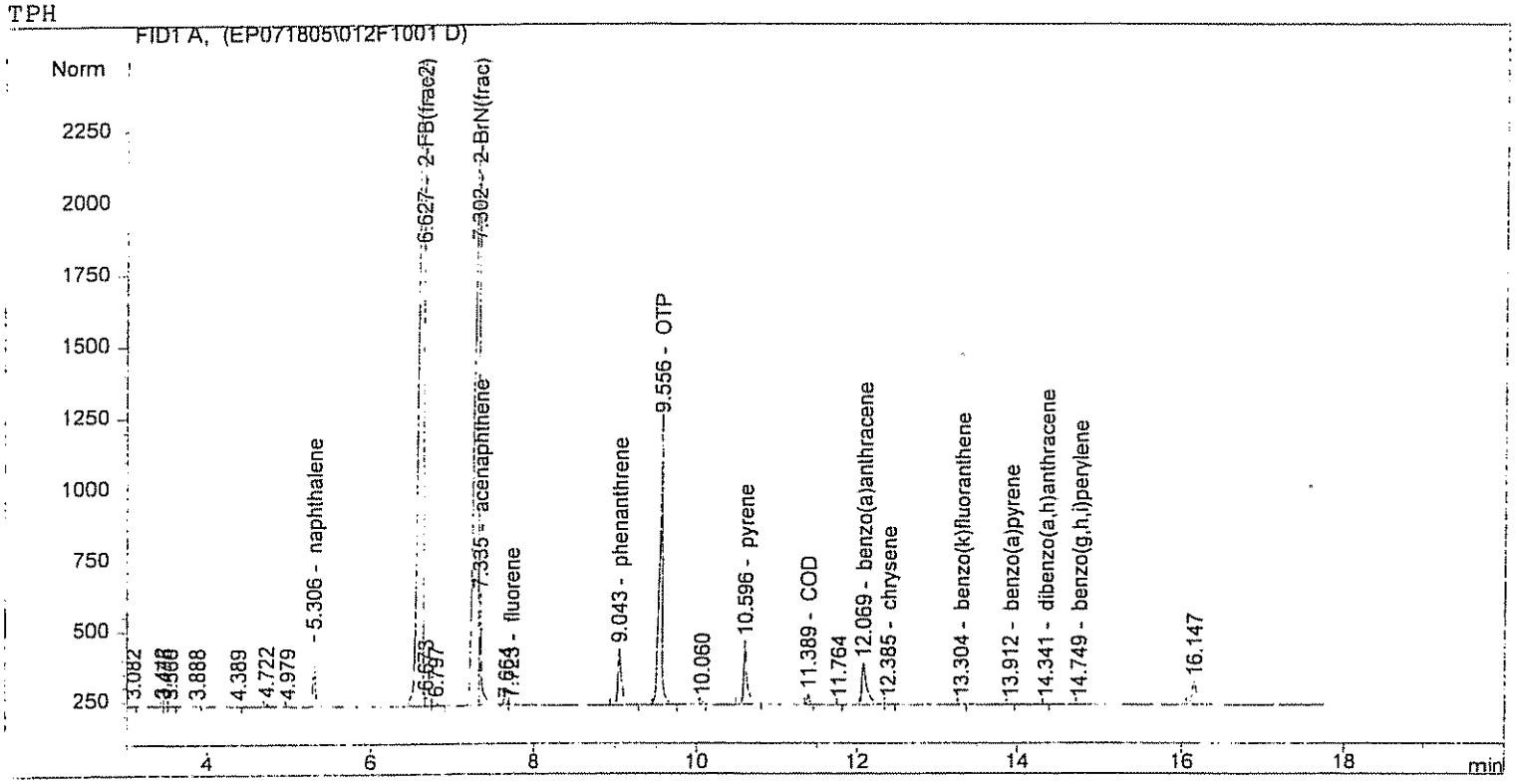
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

```
==========================================================================
Injection Date  : 7/18/2005 7:17:11 PM          Seq. Line :  10
Sample Name     : lcs3239 x1 R                   Location : Vial 12
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.306	PB	0.0255	426.07736	0.00052	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.627	BV	0.0400	1.23320e4	0.01497	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.302	PV	0.0496	8432.88965	0.01024	2-BrN(frac)
6	7.335	VB	0.0279	770.01190	0.00093	acenaphthene
7	7.723	VB	0.0463	10.91101	1.324e-5	fluorene
8	9.043	BB	0.0451	656.48724	0.00080	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.556	PB	0.0359	2668.07959	0.00324	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.596	BB	0.0413	677.43213	0.00082	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.389	BB	0.0344	76.06721	9.234e-5	COD
14	12.069	BB	0.0591	640.35913	0.00078	benzo(a)anthracene
15	12.385	BB	0.0641	22.99571	2.791e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.304	BB	0.0394	11.71508	1.422e-5	benzo(k)fluoranthene
18	13.912	BB	0.0340	4.26124	5.173e-6	benzo(a)pyrene
19	14.341	BB	0.0287	3.18231	3.863e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.749	BB	0.0302	3.01878	3.664e-6	benzo(g,h,i)perylene

Totals : 2.67355e4 3.245e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.533	PV	0.0213	110.38943	0.00013	?
2	0.590	VV	0.0281	71.00453	8.619e-5	?
3	1.837	VV S	1.0053	8.12784e7	98.66192	?
4	1.881	VV S	0.0188	8.85560e5	1.07496	?
5	1.917	VV S	0.0528	3.23922e4	0.03932	?
6	1.972	VV S	0.0390	1.59989e4	0.01942	?
7	2.035	VV S	0.0501	1.59037e4	0.01931	?
8	2.094	VV S	0.0412	1.28152e4	0.01556	?
9	2.132	VV S	0.0266	8326.46875	0.01011	?
10	2.185	VV S	0.0500	1.36019e4	0.01651	?
11	2.229	VV S	0.0293	8583.25879	0.01042	?
12	2.272	VV S	0.0399	1.00939e4	0.01225	?
13	2.323	VV S	0.0380	1.05198e4	0.01277	?
14	2.381	VV S	0.0408	9664.92090	0.01173	?
15	2.435	VV S	0.0471	1.00776e4	0.01223	?
16	2.487	VV S	0.0423	9232.85938	0.01121	?
17	2.541	VV S	0.0343	8219.04883	0.00998	?
18	2.588	VV S	0.0657	1.16727e4	0.01417	?
19	2.654	VV S	0.0285	4602.99805	0.00559	?
20	2.692	VB S	0.0858	7640.79199	0.00927	?
21	3.082	BP	0.0215	5.93950	7.210e-6	?
22	3.442	PV	0.0160	8.97756	1.090e-5	?
23	3.475	VB	0.0208	7.97689	9.683e-6	?
24	3.560	BB	0.0332	6.89680	8.372e-6	?
25	3.888	PB	0.0309	7.76170	9.422e-6	?
26	4.389	BB	0.0198	4.25399	5.164e-6	?
27	4.722	BB	0.0283	22.28251	2.705e-5	?
28	4.979	PB	0.0213	7.69591	9.342e-6	?
29	6.673	VB	0.0300	70.49055	8.557e-5	?
30	6.797	BB	0.0496	39.05698	4.741e-5	?
31	7.664	PV	0.0278	4.97021	6.033e-6	?
32	10.060	BP	0.0240	15.92469	1.933e-5	?
33	11.764	BB	0.0248	5.85924	7.112e-6	?
34	16.147	BB	0.0556	291.69315	0.00035	?

Uncalib. totals : 8.23539e7 99.9675

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

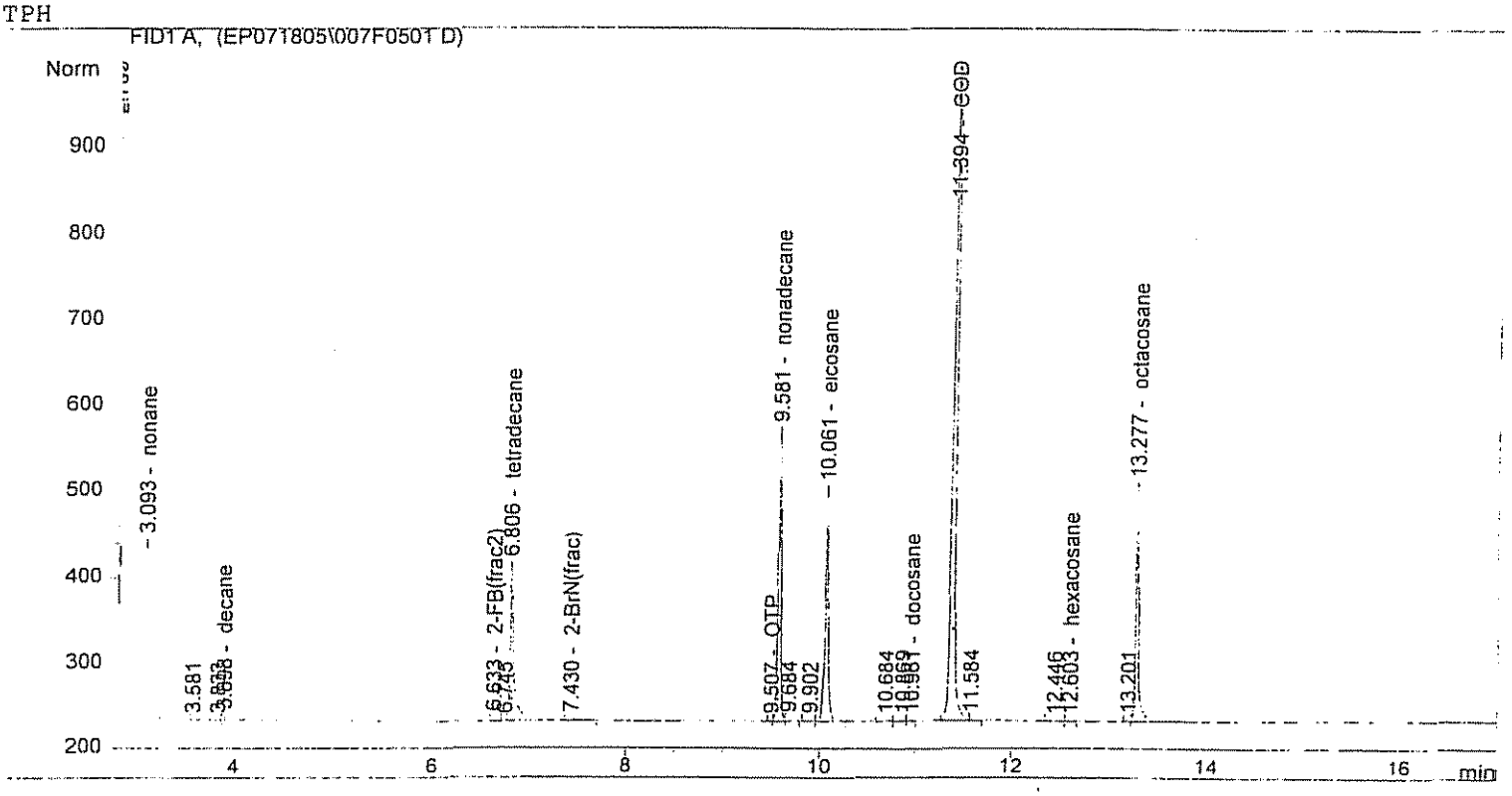
ata File Name : C:\HPCHEM\1\DATA\EP071805\007F0501.D
perator : DCS
nstrument : GC6
ample Name : G161-2069-2N x1 ms K
un Time Bar Code: 141691
cquired on : 18 Jul 05 5:02:34 PM
eport Created on: 19 Jul 2005 3:20:03 PM
ast Recalib on : 8 Jun 2005 10:16:23 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 7
Injection Number : 1
Sequence Line : 5
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\EP071805\007F0501.D

t Time	Area	Type	Width	Ref#	ng	Name
3.093	211.94676	VB	0.01	1	0.00025	nonane
3.898	12.87366	VB	0.03	2	1.528e-5	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.633	15.29262	PV	0.04	4	1.815e-5	2-FB(frac2)
6.806	475.06516	VB	0.03	5	0.00056	tetradecane
7.430	19.32166	BB	0.09	6	2.294e-5	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.507	2.80986	VV	0.02	9	3.336e-6	OTP
9.581	676.37634	VV	0.02	10	0.00080	nonadecane
10.061	595.53381	VB	0.03	11	0.00071	eicosane
10.961	7.75091	VV	0.04	12	9.201e-6	docosane
11.394	2205.69580	BV	0.03	13	0.00262	COD
11.888	0.00000	XX	0.00	14	0.00000	tetracosane
12.603	3.94052	VV	0.04	15	4.678e-6	hexacosane
13.277	554.18744	VB	0.02	16	0.00066	octacosane
14.039	0.00000	XX	0.00	17	0.00000	triacontane
16.215	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.526	2.81876	PP	0.02	1	3.346e-6	* uncalibrated *
1.801	8.29798e7	VVS	0.73	2	98.50451	* uncalibrated *
1.899	8.85288e5	VVS	0.01	3	1.05092	* uncalibrated *
1.982	7.57298e4	VVS	0.11	4	0.08990	* uncalibrated *
2.056	4.10627e4	VVS	0.05	5	0.04875	* uncalibrated *
2.113	2.81713e4	VVS	0.04	6	0.03344	* uncalibrated *
2.155	1.36621e4	VVS	0.02	7	0.01622	* uncalibrated *
2.200	2.91081e4	VVS	0.04	8	0.03455	* uncalibrated *
2.242	1.18817e4	VVS	0.02	9	0.01410	* uncalibrated *
2.289	4.87312e4	VVS	0.08	10	0.05785	* uncalibrated *
2.388	1.47570e4	VVS	0.02	11	0.01752	* uncalibrated *
2.430	2.16173e4	VVS	0.04	12	0.02566	* uncalibrated *
2.494	1.82050e4	VVS	0.03	13	0.02161	* uncalibrated *
2.536	1.96061e4	VVS	0.04	14	0.02327	* uncalibrated *
2.588	1.46541e4	VVS	0.03	15	0.01740	* uncalibrated *
2.632	1.26552e4	VVS	0.02	16	0.01502	* uncalibrated *
2.667	6947.23047	VVS	0.02	17	0.00825	* uncalibrated *
2.697	5240.24854	VVS	0.02	18	0.00622	* uncalibrated *
2.747	6189.16016	VVS	0.04	19	0.00735	* uncalibrated *
2.783	1432.87158	VBAS	0.01	20	0.00170	* uncalibrated *
3.581	2.62520	VV	0.03	21	3.116e-6	* uncalibrated *
3.833	2.08487	BV	0.02	22	2.475e-6	* uncalibrated *
6.745	5.57421	VV	0.03	23	6.617e-6	* uncalibrated *
9.684	15.67100	VB	0.05	24	1.860e-5	* uncalibrated *
9.902	9.25453	BV	0.05	25	1.099e-5	* uncalibrated *

```
==========================================================================
Injection Date  : 7/18/2005 5:02:34 PM          Seq. Line :   5
Sample Name     : 141691 x1 ms K                 Location : Vial 7
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.093	VB	0.0159	211.94676	0.00025	nonane
2	3.898	VB	0.0343	12.87366	1.528e-5	decane
3	5.541		0.0000	0.00000	0.00000	dodecane
4	6.633	PV	0.0430	15.29262	1.815e-5	2-FB(frac2)
5	6.806	VB	0.0369	475.06516	0.00056	tetradecane
6	7.430	BB	0.0922	19.32166	2.294e-5	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.172		0.0000	0.00000	0.00000	octadecane
9	9.507	VV	0.0217	2.80986	3.336e-6	OTP
10	9.581	VV	0.0291	676.37634	0.00080	nonadecane
11	10.061	VB	0.0314	595.53381	0.00071	eicosane
12	10.961	VV	0.0407	7.75091	9.201e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.394	BV	0.0300	2205.69580	0.00262	COD
14	11.888		0.0000	0.00000	0.00000	tetracosane
15	12.603	VV	0.0446	3.94052	4.678e-6	hexacosane
16	13.277	VB	0.0293	554.18744	0.00066	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 4780.79454 5.675e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.526	PP	0.0207	2.81876	3.346e-6	?
2	1.801	VV S	0.7344	8.29798e7	98.50451	?
3	1.899	VV S	0.0190	8.85288e5	1.05092	?
4	1.982	VV S	0.1150	7.57298e4	0.08990	?
5	2.056	VV S	0.0567	4.10627e4	0.04875	?
6	2.113	VV S	0.0411	2.81713e4	0.03344	?
7	2.155	VV S	0.0214	1.36621e4	0.01622	?
8	2.200	VV S	0.0457	2.91081e4	0.03455	?
9	2.242	VV S	0.0213	1.18817e4	0.01410	?
10	2.289	VV S	0.0816	4.87312e4	0.05785	?
11	2.388	VV S	0.0295	1.47570e4	0.01752	?
12	2.430	VV S	0.0446	2.16173e4	0.02566	?
13	2.494	VV S	0.0371	1.82050e4	0.02161	?
14	2.536	VV S	0.0431	1.96061e4	0.02327	?
15	2.588	VV S	0.0307	1.46541e4	0.01740	?
16	2.632	VV S	0.0294	1.26552e4	0.01502	?
17	2.667	VV S	0.0273	6947.23047	0.00825	?
18	2.697	VV S	0.0284	5240.24854	0.00622	?
19	2.747	VV S	0.0448	6189.16016	0.00735	?
20	2.783	VBAS	0.0141	1432.87158	0.00170	?
21	3.581	VV	0.0304	2.62520	3.116e-6	?
22	3.833	BV	0.0297	2.08487	2.475e-6	?
23	6.745	VV	0.0360	5.57421	6.617e-6	?
24	9.684	VB	0.0580	15.67100	1.860e-5	?
25	9.902	BV	0.0535	9.25453	1.099e-5	?
26	10.684	VV	0.0557	10.06760	1.195e-5	?
27	10.869	VV	0.0498	10.04365	1.192e-5	?
28	11.584	VV	0.0489	8.39552	9.966e-6	?
29	12.446	VV	0.0612	5.11070	6.067e-6	?
30	13.201	BV	0.0364	6.40783	7.607e-6	?

Uncalib. totals : 8.42348e7 99.9943

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\EP071805\008F0601.D
erator : DCS
strument : GC6
mple Name : G161-2069-2N x1 ms R
n Time Bar Code: 141691
quired on : 18 Jul 05 5:28:57 PM
port Created on: 19 Jul 2005 3:20:11 PM
st Recalib on : 14 Jul 2005 2:22:40 PM
ltiplier : 1.0000

Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 6
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\EP071805\008F0601.D

t Time	Area	Type	Width	Ref#	ng	Name
5.308	808.04059	BB	0.02	1	0.00096	naphthalene
6.103	45.49041	BB	0.03	2	5.415e-5	2-methylnaphthalene
6.626	1.10067e4	BV	0.04	3	0.01310	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.302	7418.73584	PV	0.04	5	0.00883	2-BrN(frac)
7.335	733.48560	VB	0.02	6	0.00087	acenaphthene
7.920	0.00000	XX	0.00	7	0.00000	fluorene
9.046	555.36835	PB	0.04	8	0.00066	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.558	2505.88306	BB	0.03	10	0.00298	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.597	612.23511	PB	0.04	12	0.00073	pyrene
11.395	71.79137	BB	0.03	13	8.546e-5	COD
12.072	574.08893	PB	0.05	14	0.00068	benzo(a)anthracene
12.178	0.00000	XX	0.00	15	0.00000	chrysene
13.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
13.316	10.25810	BP	0.04	17	1.221e-5	benzo(k)fluoranthene
13.614	0.00000	XX	0.00	18	0.00000	benzo(a)pyrene
14.607	0.00000	XX	0.00	19	0.00000	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.817	0.00000	XX	0.00	21	0.00000	benzo(g,h,i)perylene
0.536	44.54781	PV	0.02	1	5.303e-5	* uncalibrated *
0.591	41.90876	VV	0.02	2	4.989e-5	* uncalibrated *
1.849	8.28605e7	VVS	1.01	3	98.63166	* uncalibrated *
1.897	9.14707e5	VVS	0.01	4	1.08881	* uncalibrated *
2.013	2.23462e4	VVS	0.04	5	0.02660	* uncalibrated *
2.055	1.73875e4	VVS	0.03	6	0.02070	* uncalibrated *
2.112	1.61662e4	VVS	0.03	7	0.01924	* uncalibrated *
2.145	1.27358e4	VVS	0.03	8	0.01516	* uncalibrated *
2.198	1.51011e4	VVS	0.04	9	0.01798	* uncalibrated *
2.244	1.36827e4	VVS	0.03	10	0.01629	* uncalibrated *
2.287	1.32180e4	VVS	0.03	11	0.01573	* uncalibrated *
2.340	1.67400e4	VVS	0.05	12	0.01993	* uncalibrated *
2.395	2.06755e4	VVS	0.06	13	0.02461	* uncalibrated *
2.486	1.33364e4	VVS	0.03	14	0.01587	* uncalibrated *
2.530	1.14223e4	VVS	0.03	15	0.01360	* uncalibrated *
2.602	1.99492e4	VVS	0.07	16	0.02375	* uncalibrated *
2.672	6473.28564	VVS	0.03	17	0.00771	* uncalibrated *
2.715	5404.47314	VVS	0.04	18	0.00643	* uncalibrated *
2.772	3642.62720	VBS	0.03	19	0.00434	* uncalibrated *
2.857	322.88629	BVX	0.01	20	0.00038	* uncalibrated *
3.030	17.93991	VVX	0.01	21	2.135e-5	* uncalibrated *
3.090	11.13692	VVX	0.01	22	1.326e-5	* uncalibrated *

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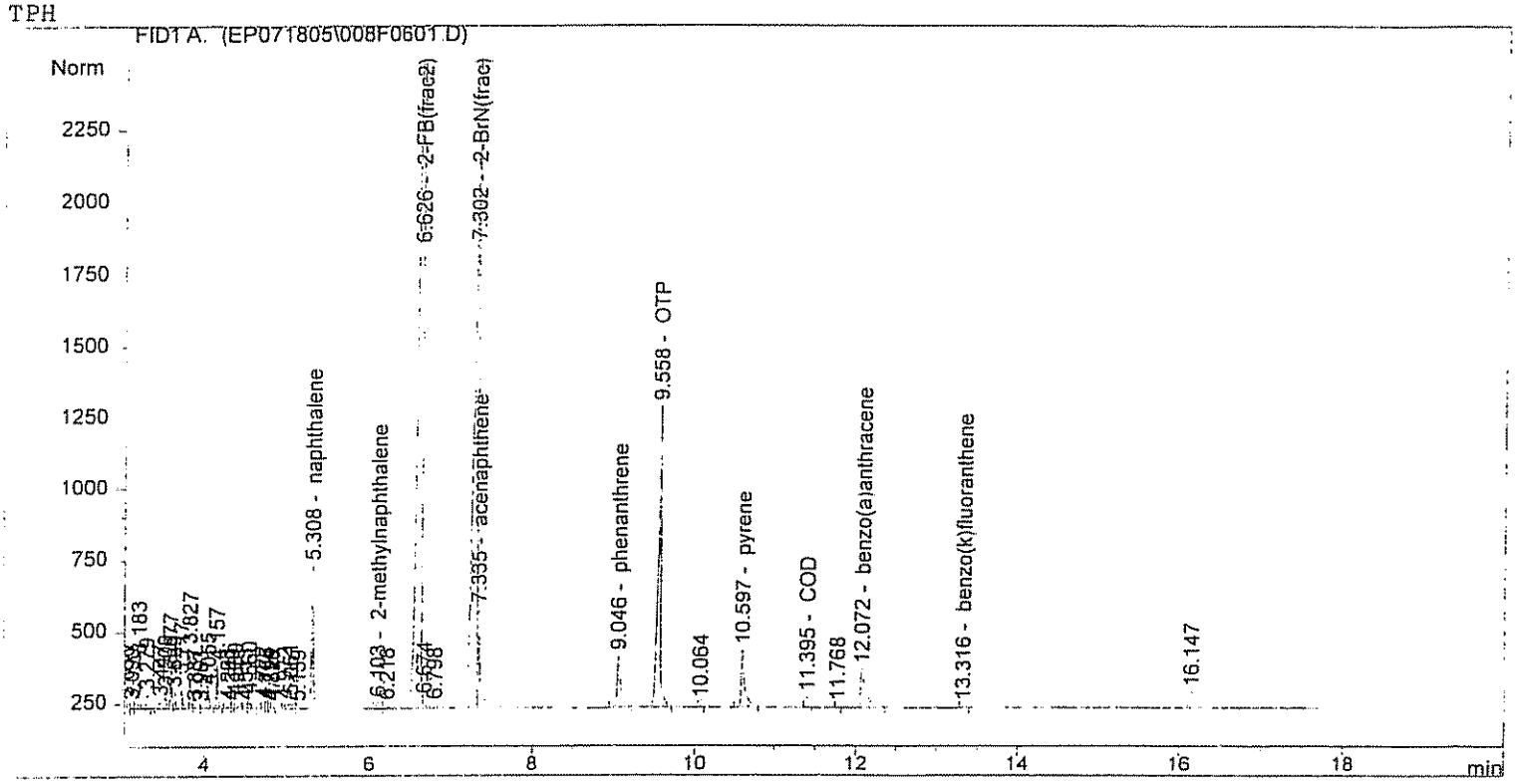
Injection Date : 7/18/2005 5:28:57 PM Seq. Line : 6
Sample Name : 141691 x1 ms R Location : Vial 8
Acq. Operator : DCS Inj : 1
Acq. Instrument : GC6 Inj Volume : 10 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed : 7/14/2005 2:23:08 PM by DCS
TPH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 7/14/2005 2:22:40 PM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.308	BB	0.0241	808.04059	0.00096	naphthalene
2	6.103	BB	0.0332	45.49041	5.415e-5	2-methylnaphthalene
3	6.626	BV	0.0480	1.10067e4	0.01310	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.302	PV	0.0440	7418.73584	0.00883	2-BrN(frac)
6	7.335	VB	0.0290	733.48560	0.00087	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.046	PB	0.0421	555.36835	0.00066	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.558	BB	0.0328	2505.88306	0.00298	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.597	PB	0.0431	612.23511	0.00073	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.395	BB	0.0325	71.79137	8.546e-5	COD
14	12.072	PB	0.0572	574.08893	0.00068	benzo(a)anthracene
15	12.178		0.0000	0.00000	0.00000	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.316	BP	0.0454	10.25810	1.221e-5	benzo(k)fluoranthene
18	13.614		0.0000	0.00000	0.00000	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.43421e4 2.898e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.536	PV	0.0267	44.54781	5.303e-5	?
2	0.591	VV	0.0281	41.90876	4.989e-5	?
3	1.849	VV S	1.0195	8.28605e7	98.63166	?
4	1.897	VV S	0.0189	9.14707e5	1.08881	?
5	2.013	VV S	0.0413	2.23462e4	0.02660	?
6	2.055	VV S	0.0385	1.73875e4	0.02070	?
7	2.112	VV S	0.0360	1.61662e4	0.01924	?
8	2.145	VV S	0.0329	1.27358e4	0.01516	?
9	2.198	VV S	0.0411	1.51011e4	0.01798	?
10	2.244	VV S	0.0312	1.36827e4	0.01629	?
11	2.287	VV S	0.0340	1.32180e4	0.01573	?
12	2.340	VV S	0.0505	1.67400e4	0.01993	?
13	2.395	VV S	0.0628	2.06755e4	0.02461	?
14	2.486	VV S	0.0396	1.33364e4	0.01587	?
15	2.530	VV S	0.0390	1.14223e4	0.01360	?
16	2.602	VV S	0.0799	1.99492e4	0.02375	?
17	2.672	VV S	0.0353	6473.28564	0.00771	?
18	2.715	VV S	0.0470	5404.47314	0.00643	?
19	2.772	VB S	0.0329	3642.62720	0.00434	?
20	2.857	BV X	0.0145	322.88629	0.00038	?
21	3.030	VV X	0.0163	17.93991	2.135e-5	?
22	3.090	VV X	0.0171	11.13692	1.326e-5	?
23	3.183	VV X	0.0152	164.47874	0.00020	?
24	3.279	VB X	0.0147	43.94865	5.231e-5	?
25	3.447	PB	0.0158	22.32911	2.658e-5	?
26	3.509	BV	0.0167	60.69201	7.224e-5	?
27	3.577	VV	0.0234	185.17093	0.00022	?
28	3.629	VB	0.0176	61.68989	7.343e-5	?
29	3.717	BB	0.0168	110.11453	0.00013	?
30	3.827	BV	0.0167	222.43379	0.00026	?
31	3.887	VV	0.0342	20.55379	2.447e-5	?
32	3.963	VP	0.0220	4.32216	5.145e-6	?
33	4.055	BB	0.0194	77.07385	9.174e-5	?
34	4.157	BB	0.0176	174.58815	0.00021	?
35	4.293	PV	0.0415	21.74138	2.588e-5	?
36	4.349	VV	0.0202	9.88814	1.177e-5	?
37	4.389	VP	0.0245	43.54883	5.184e-5	?
38	4.513	VV	0.0411	23.61412	2.811e-5	?
39	4.560	VP	0.0217	49.70267	5.916e-5	?
40	4.722	BV	0 0251	25.02178	2.978e-5	?
41	4.765	VV	0.0204	15.40963	1.834e-5	?
42	4.794	VV	0.0202	10.72999	1.277e-5	?
43	4.826	VB	0.0222	9.97568	1.187e-5	?
44	4.972	PV	0.0291	26.77265	3.187e-5	?
45	5.051	VV	0.0259	48.10234	5.726e-5	?
46	5.139	VB	0.0320	9.55599	1.137e-5	?
47	6.218	BP	0.0378	24.31955	2.895e-5	?
48	6.674	VB	0.0298	64.72683	7.705e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	6.798	BB	0.0483	34.09212	4.058e-5	?
50	10.064	BP	0.0229	15.02327	1.788e-5	?
51	11.768	BB	0.0246	5.04382	6.004e-6	?
52	16.147	BB	0.0541	189.28172	0.00023	?

Uncalib. totals : 8.39857e7 99.9710

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\EP071805\009F0701.D
ɔerator : DCS
ıstrument : GC6
ımple Name : G161-2069-20 x1 msd K
ın Time Bar Code: 141692
quired on : 18 Jul 05 5:55:22 PM
port Created on: 19 Jul 2005 3:20:19 PM
st Recalib on : 8 Jun 2005 10:16:23 AM
ltiplier : 1.0000

Page Number :
Vial Number : Vial 9
Injection Number : 1
Sequence Line : 7
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\EP071805\009F0701.D

t Time	Area	Type	Width	Ref#	ng	Name
3.092	254.89246	VP	0.01	1	0.00030	nonane
3.899	8.81551	VB	0.02	2	1.047e-5	decane
5.541	0.00000	XX	0.00	3	0.00000	dodecane
6.630	11.14035	PV	0.04	4	1.323e-5	2-FB(frac2)
6.803	540.77374	VB	0.03	5	0.00064	tetradecane
7.429	14.85150	PB	0.09	6	1.763e-5	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.172	0.00000	XX	0.00	8	0.00000	octadecane
9.508	2.75255	PV	0.02	9	3.268e-6	OTP
9.580	732.50751	VB	0.02	10	0.00087	nonadecane
10.206	3.38040	VB	0.03	11	4.013e-6	eicosane
10.960	6.34188	VV	0.04	12	7.529e-6	docosane
1.394	2336.02808	BV	0.02	13	0.00277	COD
1.761	6.60914	VV	0.06	14	7.846e-6	tetracosane
2.590	5.30618	VV	0.04	15	6.299e-6	hexacosane
3.277	604.44025	VB	0.03	16	0.00072	octacosane
4.039	0.00000	XX	0.00	17	0.00000	triacontane
6.215	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.532	6.24704	PV	0.01	1	7.416e-6	* uncalibrated *
0.591	2.10728	VV	0.01	2	2.502e-6	* uncalibrated *
1.873	8.30332e7	VVS	1.01	3	98.57370	* uncalibrated *
1.900	9.77890e5	VVS	0.02	4	1.16091	* uncalibrated *
2.034	2.13012e4	VVS	0.03	5	0.02529	* uncalibrated *
2.079	2.32053e4	VVS	0.04	6	0.02755	* uncalibrated *
2.140	1.85628e4	VVS	0.04	7	0.02204	* uncalibrated *
2.204	3.14204e4	VVS	0.07	8	0.03730	* uncalibrated *
2.283	1.47776e4	VVS	0.03	9	0.01754	* uncalibrated *
2.335	3.25089e4	VVS	0.09	10	0.03859	* uncalibrated *
2.433	2.48791e4	VVS	0.07	11	0.02954	* uncalibrated *
2.546	1.93029e4	VVS	0.05	12	0.02292	* uncalibrated *
2.600	9228.67969	VVS	0.03	13	0.01096	* uncalibrated *
2.631	8279.74121	VVS	0.02	14	0.00983	* uncalibrated *
2.667	5610.91016	VVS	0.02	15	0.00666	* uncalibrated *
2.700	5604.79004	VVS	0.03	16	0.00665	* uncalibrated *
2.754	2198.18823	VVS	0.02	17	0.00261	* uncalibrated *
2.781	1446.84021	VBAS	0.01	18	0.00172	* uncalibrated *
3.745	4.77643	VV	0.03	19	5.670e-6	* uncalibrated *
1.061	633.55933	VV	0.03	20	0.00075	* uncalibrated *
1.526	5.04492	PV	0.05	21	5.989e-6	* uncalibrated *
1.681	8.86592	VV	0.06	22	1.053e-5	* uncalibrated *
1.866	7.53222	VV	0.05	23	8.942e-6	* uncalibrated *
.584	11.73218	VV	0.05	24	1.393e-5	* uncalibrated *
.430	6.42702	BV	0.04	25	7.630e-6	* uncalibrated *

```
==========================================================================
Injection Date  : 7/18/2005 5:55:22 PM          Seq. Line :   7
Sample Name     : 141692 xl msd K                Location : Vial 9
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                         Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 7/14/2005 10:40:30 AM by DCS
TPH
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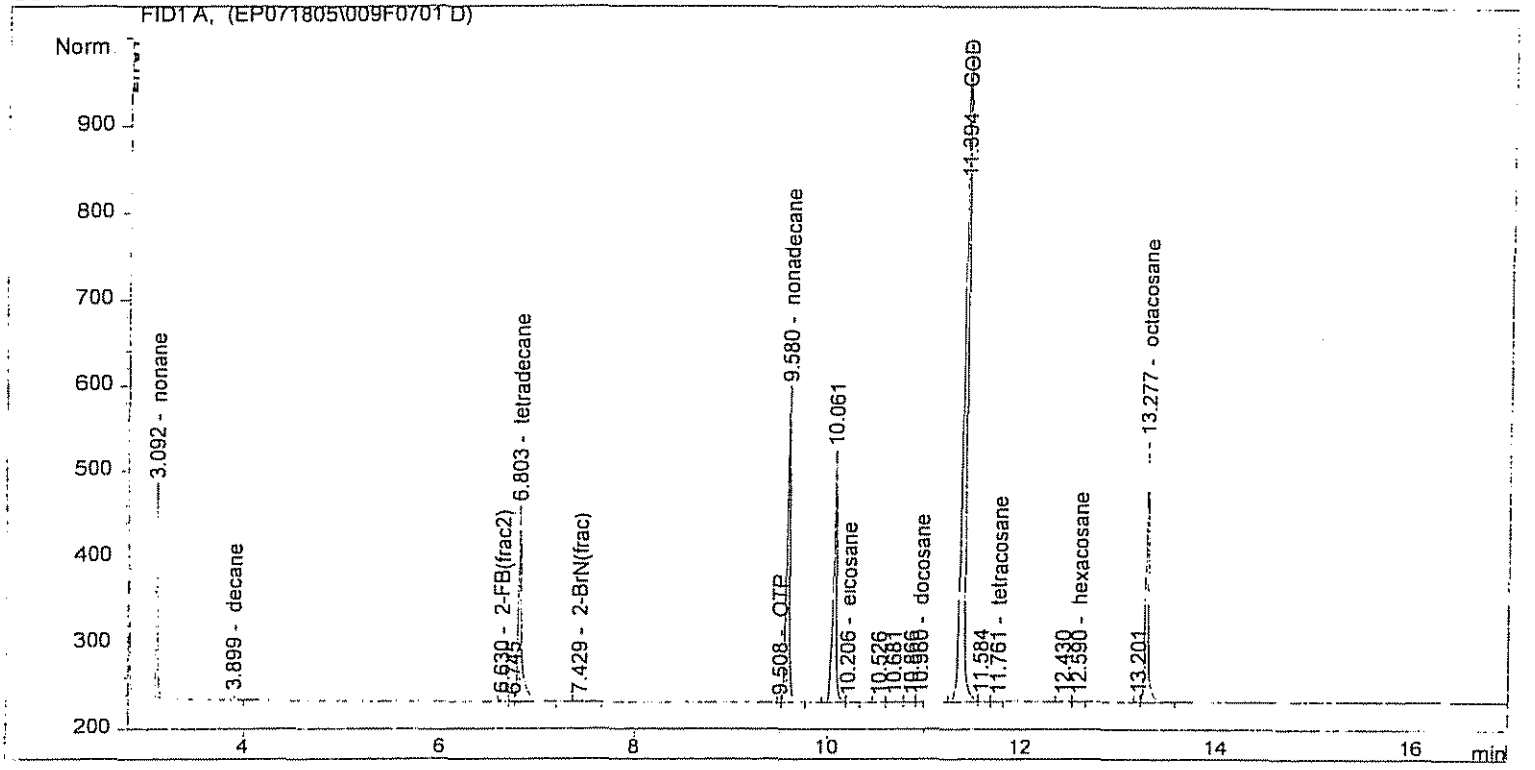


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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      6/8/2005 10:16:23 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [pA*s]        %
----|-------|------|-------|----------|--------|---------------------
   1    3.092 VP     0.0160  254.89246  0.00030 nonane
   2    3.899 VB     0.0295    8.81551 1.047e-5 decane
   3    5.541        0.0000    0.00000  0.00000 dodecane
   4    6.630 PV     0.0417   11.14035 1.323e-5 2-FB(frac2)
   5    6.803 VB     0.0339  540.77374  0.00064 tetradecane
   6    7.429 PB     0.0901   14.85150 1.763e-5 2-BrN(frac)
   7    8.095        0.0000    0.00000  0.00000 hexadecane
   8    9.172        0.0000    0.00000  0.00000 octadecane
   9    9.508 PV     0.0230    2.75255 3.268e-6 OTP
  10    9.580 VB     0.0294  732.50751  0.00087 nonadecane
  11   10.206 VB     0.0387    3.38040 4.013e-6 eicosane
  12   10.960 VV     0.0408    6.34188 7.529e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.394	BV	0.0293	2336.02808	0.00277	COD
14	11.761	VV	0.0644	6.60914	7.846e-6	tetracosane
15	12.590	VV	0.0439	5.30618	6.299e-6	hexacosane
16	13.277	VB	0.0301	604.44025	0.00072	octacosane
17	14.039		0.0000	0.00000	0.00000	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 4527.83955 5.375e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.532	PV	0.0176	6.24704	7.416e-6	?
2	0.591	VV	0.0124	2.10728	2.502e-6	?
3	1.873	VV S	1.0149	8.30332e7	98.57370	?
4	1.900	VV S	0.0200	9.77890e5	1.16091	?
5	2.034	VV S	0.0376	2.13012e4	0.02529	?
6	2.079	VV S	0.0408	2.32053e4	0.02755	?
7	2.140	VV S	0.0421	1.85628e4	0.02204	?
8	2.204	VV S	0.0785	3.14204e4	0.03730	?
9	2.283	VV S	0.0356	1.47776e4	0.01754	?
10	2.335	VV S	0.0971	3.25089e4	0.03859	?
11	2.433	VV S	0.0752	2.48791e4	0.02954	?
12	2.546	VV S	0.0534	1.93029e4	0.02292	?
13	2.600	VV S	0.0307	9228.67969	0.01096	?
14	2.631	VV S	0.0256	8279.74121	0.00983	?
15	2.667	VV S	0.0258	5610.91016	0.00666	?
16	2.700	VV S	0.0372	5604.79004	0.00665	?
17	2.754	VV S	0.0203	2198.18823	0.00261	?
18	2.781	VBAS	0.0192	1446.84021	0.00172	?
19	6.745	VV	0.0345	4.77643	5.670e-6	?
20	10.061	VV	0.0314	633.55933	0.00075	?
21	10.526	PV	0.0592	5.04492	5.989e-6	?
22	10.681	VV	0.0635	8.86592	1.053e-5	?
23	10.866	VV	0.0515	7.53222	8.942e-6	?
24	11.584	VV	0.0532	11.73218	1.393e-5	?
25	12.430	BV	0.0499	6.42702	7.630e-6	?
26	13.201	BV	0.0374	8.84319	1.050e-5	?

Uncalib. totals : 8.42301e7 99.9946

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

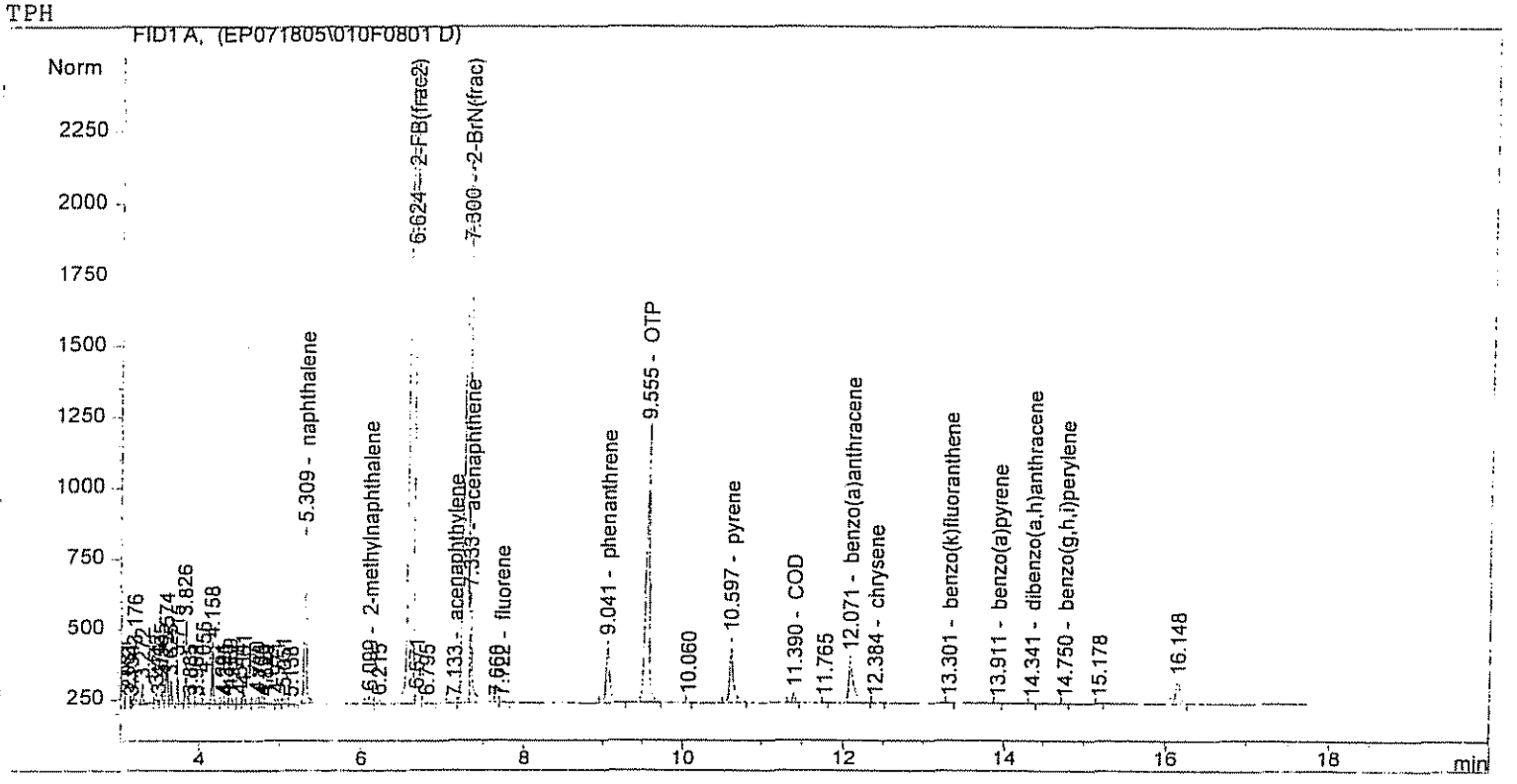
ta File Name : C:\HPCHEM\1\DATA\EP071805\010F0801.D
erator : DCS
strument : GC6
mple Name : G161-2069-20 x1 msd R
ı Time Bar Code: 141692
quired on : 18 Jul 05 6:22:33 PM
port Created on: 19 Jul 2005 3:20:27 PM
st Recalib on : 14 Jul 2005 2:22:40 PM
ltiplier : 1.0000

Page Number :
Vial Number : Vial 10
Injection Number : 1
Sequence Line : 8
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

). 1 in C:\HPCHEM\1\DATA\EP071805\010F0801.D

: Time	Area	Type	Width	Ref#	ng	Name
5.309	1050.72229	BB	0.02	1	0.00128	naphthalene
6.099	60.68898	BV	0.03	2	7.392e-5	2-methylnaphthalene
6.624	1.19822e4	BV	0.04	3	0.01459	2-FB(frac2)
7.133	10.60944	PP	0.05	4	1.292e-5	acenaphthylene
7.300	8138.40283	VV	0.04	5	0.00991	2-BrN(frac)
7.333	777.86353	VB	0.02	6	0.00095	acenaphthene
7.722	8.09305	VB	0.04	7	9.857e-6	fluorene
9.041	713.67328	BB	0.04	8	0.00087	phenanthrene
9.111	0.00000	XX	0.00	9	0.00000	anthracene
9.555	2716.95947	BB	0.03	10	0.00331	OTP
0.460	0.00000	XX	0.00	11	0.00000	fluoranthene
0.597	712.36530	BB	0.04	12	0.00087	pyrene
1.390	81.70603	BB	0.03	13	9.952e-5	COD
2.071	667.91510	BB	0.05	14	0.00081	benzo(a)anthracene
2.384	27.46094	BB	0.06	15	3.345e-5	chrysene
3.250	0.00000	XX	0.00	16	0.00000	benzo(b)fluoranthene
3.301	11.67712	BP	0.03	17	1.422e-5	benzo(k)fluoranthene
3.911	5.27501	BB	0.03	18	6.425e-6	benzo(a)pyrene
4.341	4.12506	BP	0.03	19	5.024e-6	dibenzo(a,h)anthracene
4.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
4.750	4.31972	BP	0.03	21	5.261e-6	benzo(g,h,i)perylene
0.544	131.50603	PV	0.02	1	0.00016	* uncalibrated *
0.588	81.62768	VV	0.02	2	9.942e-5	* uncalibrated *
1.834	8.10069e7	VVS	1.00	3	98.66396	* uncalibrated *
1.877	9.11885e5	VVS	0.01	4	1.11065	* uncalibrated *
1.961	1.68080e4	VVS	0.04	5	0.02047	* uncalibrated *
2.016	1.41077e4	VVS	0.04	6	0.01718	* uncalibrated *
2.076	1.56226e4	VVS	0.05	7	0.01903	* uncalibrated *
2.126	9631.79883	VVS	0.02	8	0.01173	* uncalibrated *
2.181	1.53466e4	VVS	0.06	9	0.01869	* uncalibrated *
2.240	9278.43652	VVS	0.03	10	0.01130	* uncalibrated *
2.281	8157.42188	VVS	0.03	11	0.00994	* uncalibrated *
2.323	8067.60547	VVS	0.03	12	0.00983	* uncalibrated *
2.375	7859.13135	VVS	0.03	13	0.00957	* uncalibrated *
2.415	6313.53613	VVS	0.02	14	0.00769	* uncalibrated *
2.459	1.02772e4	VVS	0.05	15	0.01252	* uncalibrated *
2.517	7283.10010	VVS	0.03	16	0.00887	* uncalibrated *
2.564	6630.97119	VVS	0.03	17	0.00808	* uncalibrated *
2.600	3195.47412	VVS	0.01	18	0.00389	* uncalibrated *
.631	5568.13086	VVS	0.03	19	0.00678	* uncalibrated *
.659	3825.85791	VVS	0.03	20	0.00466	* uncalibrated *
.710	3500.18579	VVS	0.04	21	0.00426	* uncalibrated *
.768	3292.08569	VBS	0.04	22	0.00401	* uncalibrated *

```
==========================================================================
Injection Date  : 7/18/2005 6:22:33 PM          Seq. Line :   8
Sample Name     : 141692 x1 msd R                Location : Vial 10
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071805.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 7/14/2005 2:23:08 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/14/2005 2:22:40 PM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.309	BB	0.0247	1050.72229	0.00128	naphthalene
2	6.099	BV	0.0380	60.68898	7.392e-5	2-methylnaphthalene
3	6.624	BV	0.0416	1.19822e4	0.01459	2-FB(frac2)
4	7.133	PP	0.0539	10.60944	1.292e-5	acenaphthylene
5	7.300	VV	0.0446	8138.40283	0.00991	2-BrN(frac)
6	7.333	VB	0.0273	777.86353	0.00095	acenaphthene
7	7.722	VB	0.0440	8.09305	9.857e-6	fluorene
8	9.041	BB	0.0466	713.67328	0.00087	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.555	BB	0.0373	2716.95947	0.00331	OTP
11	10.460		0.0000	0.00000	0.00000	fluoranthene
12	10.597	BB	0.0427	712.36530	0.00087	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.390	BB	0.0352	81.70603	9.952e-5	COD
14	12.071	BB	0.0539	667.91510	0.00081	benzo(a)anthracene
15	12.384	BB	0.0633	27.46094	3.345e-5	chrysene
16	13.250		0.0000	0.00000	0.00000	benzo(b)fluoranthene
17	13.301	BP	0.0394	11.67712	1.422e-5	benzo(k)fluoranthene
18	13.911	BB	0.0369	5.27501	6.425e-6	benzo(a)pyrene
19	14.341	BP	0.0315	4.12506	5.024e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.750	BP	0.0318	4.31972	5.261e-6	benzo(g,h,i)perylene

Totals : 2.69740e4 3.285e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.544	PV	0.0217	131.50603	0.00016	?
2	0.588	VV	0.0256	81.62768	9.942e-5	?
3	1.834	VV S	1.0000	8.10069e7	98.66396	?
4	1.877	VV S	0.0190	9.11885e5	1.11065	?
5	1.961	VV S	0.0458	1.68080e4	0.02047	?
6	2.016	VV S	0.0467	1.41077e4	0.01718	?
7	2.076	VV S	0.0527	1.56226e4	0.01903	?
8	2.126	VV S	0.0283	9631.79883	0.01173	?
9	2.181	VV S	0.0605	1.53466e4	0.01869	?
10	2.240	VV S	0.0336	9278.43652	0.01130	?
11	2.281	VV S	0.0337	8157.42188	0.00994	?
12	2.323	VV S	0.0370	8067.60547	0.00983	?
13	2.375	VV S	0.0329	7859.13135	0.00957	?
14	2.415	VV S	0.0278	6313.53613	0.00769	?
15	2.459	VV S	0.0593	1.02772e4	0.01252	?
16	2.517	VV S	0.0350	7283.10010	0.00887	?
17	2.564	VV S	0.0346	6630.97119	0.00808	?
18	2.600	VV S	0.0180	3195.47412	0.00389	?
19	2.631	VV S	0.0340	5568.13086	0.00678	?
20	2.659	VV S	0.0308	3825.85791	0.00466	?
21	2.710	VV S	0.0474	3500.18579	0.00426	?
22	2.768	VB S	0.0455	3292.08569	0.00401	?
23	2.847	BV X	0.0141	455.09985	0.00055	?
24	3.021	VV X	0.0160	25.99984	3.167e-5	?
25	3.081	VV X	0.0184	15.69207	1.911e-5	?
26	3.134	VV X	0.0178	5.02577	6.121e-6	?
27	3.176	VV X	0.0152	178.42862	0.00022	?
28	3.272	VV X	0.0162	69.06735	8.412e-5	?
29	3.442	VV X	0.0166	42.33304	5.156e-5	?
30	3.474	VV X	0.0161	11.88649	1.448e-5	?
31	3.505	VV X	0.0171	90.68122	0.00011	?
32	3.574	VV X	0.0236	273.37616	0.00033	?
33	3.625	VV X	0.0187	92.55196	0.00011	?
34	3.715	VV X	0.0171	167.52777	0.00020	?
35	3.826	VV X	0.0180	325.12042	0.00040	?
36	3.885	VV X	0.0384	29.49003	3.592e-5	?
37	3.963	VV X	0.0378	12.60720	1.536e-5	?
38	4.055	VV X	0.0197	122.19763	0.00015	?
39	4.158	VV X	0.0185	269.29636	0.00033	?
40	4.291	VV X	0.0333	28.26328	3.442e-5	?
41	4.325	VV X	0.0214	12.80398	1.559e-5	?
42	4.349	VV X	0.0217	18.13781	2.209e-5	?
43	4.389	VV X	0.0279	63.30190	7.710e-5	?
44	4.514	VV X	0.0344	38.66103	4.709e-5	?
45	4.561	VV X	0.0237	78.62945	9.577e-5	?
46	4.720	VV X	0.0268	40.04348	4.877e-5	?
47	4.766	VV X	0.0199	16.43684	2.002e-5	?
48	4.793	VV X	0.0205	16.19383	1.972e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	4.825	VV X	0.0277	16.51006	2.011e-5	?
50	4.971	VV T	0.0284	35.97311	4.381e-5	?
51	5.051	VV T	0.0258	65.29627	7.953e-5	?
52	5.138	VB T	0.0259	9.35402	1.139e-5	?
53	6.215	VP	0.0425	31.25685	3.807e-5	?
54	6.671	VV	0.0282	69.33500	8.445e-5	?
55	6.795	VB	0.0504	37.63463	4.584e-5	?
56	7.660	PV	0.0292	3.85291	4.693e-6	?
57	10.060	BP	0.0245	16.52383	2.013e-5	?
58	11.765	BB	0.0255	5.74381	6.996e-6	?
59	15.178	BP	0.0367	4.22836	5.150e-6	?
60	16.148	BB	0.0549	310.68695	0.00038	?

Uncalib. totals : 8.20769e7 99.9671

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

EPH Prep, Standard, Run Logs

Prep Report for Batch 3239 (EPH/3520/WATER) on 2005-07-15

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot	Analyst
G106-528-2L (141696)					ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2069-1M (141689)					ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2069-2M (141690)					ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2069-2N (141691)	ms	212	ephqcsvo3n34	.5	ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2069-2O (141692)	msd	212	ephqcsvo3n34	.5	ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2070-1M (141694)					ephsrsvo3w17l	.5	5	co493	cn929	nio
G161-2070-2K (141695)					ephsrsvo3w17l	.5	5	co493	cn929	nio
G520-107-1J (141693)					ephsrsvo3w17l	.5	5	co493	cn929	nio
lcs3239	lcs		ephqcsvo3n34	.5	ephsrsvo3w17l	.5	5	co493	cn929	nio
pb3239	pb				ephsrsvo3w17l	.5	5	co493	cn929	nio

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W14

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7E	5/06	DDT Isomer Mix	10ml	10mL	1000ug/mL	1000ug/L	Acetone	DDT Isomer Mix	5/06	5/10/05	[illegible]
B	ECD03-R7F	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
C	ECD03-R7G	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
D	ECD03-R7H	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
E	ECD03-R7I	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
F	ECD03-R7J	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
G	ECD03-R7E	5/06	DDT Isomer Mix ICAL	10ml	50ml	1000ug/ml	200ug/L	Hexane	ICAL Std	5/06	5/11/05	CP
H	↓ -R7F	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
I	-R7G	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
J	-R7H	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
K	-R7I	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
L	↓ -R7J			↓	↓	↓	↓	↓	↓	↓	↓	↓
M	ECD03-R5Z	8/05	Diesel Std	50ml	25ml	5000ug/ml	1000ug/ml	MeCl2	—	6/05	5/13/05	CP
N	SV03-W17D	8/06	EPH Surr	10ml	↓	400ug/ml	100ug/mL	↓		↓	↓	↓
O	ECD03-W8RSA	5/16/06	PCP Matrix Spike	20ml	10mL	10000ug/ml	2000ug/L	MeOH		5/15/05	5/15/05	[illegible]
P	ECD03-R7K	5/16/06	Aromatic Std	800ml	20ml	1000ug/ml	40ug/ml	Hexane		5/16/06	5/16/05	CP
Q	ECD03-W12Q		Frac	800ml	↓	10000ug/ml	400ug/ml	↓		↓	↓	↓
R	SV03-W17P		EPH Surr	2ml	~~[illegible]~~	400ug/ml	40ug/ml	↓		↓	↓	↓
S	ECD03-R7L	5/26/06	Aliphatic Std	1ml	to 25mL	1000ug/ml	40ug/ml	Hexane		5/26/06	5/26/05	CP
T	SV03 W17	—	EPH Surr	2.5ml	25ml	400ug/ml	40ug/ml	↓		↓	↓	↓
U	ECD03-R8T	1/7/06	1016/1260 Std	100ml	25ml	1000ug/ml	4000ug/L	Hexane		1/7/06	5/26/05	CP
V	ECD03-R6M		8080 Surr Mix	5ml	↓	2000ug/ml	400ug/L	↓		↓	↓	↓
W	ECD03-		PCP Matrix Spike	20ml	10ml	1000ug/ml	2000ug/L	MeOH		6/21/05	6/21/05	CP

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W15

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03-R7M	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/05	6/23/05	DC
B	ECD03-R7P	6/27/06	8081 Internal Std	1mL	10mL	100ug/mL	10ug/mL	Hex		6/27/06	6/27/05	CP
C	ECD03-R7R	6/29/06	Diesel Fuel #2	1mL	50mL	50,000ug/mL	1000ug/mL	CH2Cl2		6/29/06	6/29/05	DC
D	ECD03-R6O	8/25/05	EDB Std	17.5mL	50mL	200ug/mL	70ug/L	Hexane		8/25/05	7/12/05	CP
E	ECD03-R7S	7/18/06	Aromatic Std	400mL	~~20mL~~ 10mL	1000ug/mL	40ug/mL	Hex	Aromatic EPH	7/18/06	7/18/05	DCS
F	ECD03-W12Q	↓	Frac	400mL	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7K~~ W17	↓	EPH Surr	~~2mL~~ 1mL	↓	400ug/mL	↓	↓	↓	↓	↓	↓
H	SV03-R7T	7/21/06	1254 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		7/21/06	7/22/05	CP
I			8080 Surr	10uL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
J	SV03-R7U	7/22/06	1016/1260 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		7/22/06	7/22/05	CP
K		↓	8080 Surr	10uL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓
L	SV03-R7V	8/2/06	Herb IS	400uL	10mL	200ug/mL	10ug/mL	Hexane		8/2/06	8/2/05	CP
M	SV03-R7W	8/9/06	8082 IS (DCB)	500uL	10mL	200ug/mL	10ug/mL	Hexane		8/9/06	8/9/05	CP
N	SV03-R7X	8/9/06	8081 ICAL Std	50uL	50mL	200ug/mL	200ug/L	Hexane		8/9/06	8/9/05	CP
O	~~ECD03~~ SV03-R6U	12/26/06	Herb ICAL Std	50uL	25mL	200ug/mL	400ug/L	Hexane		12/05	8/18/05	CP
P	ECD03-R6W	12/26/05	↓	↓	↓	200ug/mL	400ug/L	↓		↓	↓	↓
Q	ECD03-R6X	1/19/06	↓	↓	↓	2000ug/mL	1000ug/L	↓		↓	↓	↓
R	ECD03-R6R	12/29/05	↓	↓	↓	200ug/mL	400ug/L	↓		↓	↓	↓
S	ECD03-R7Y	4/21/06	Herb CCAL Std	50uL	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7V	8/9/06	8082/8081 IS	500uL	10mL	200ug/mL	10ug/mL	Hexane		8/06	8/23/05	CP
U	ECD03-R7Y	8/23/06	↓	20mL	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/1260 Std	200uL	50mL	1000ug/mL	4000ug/L	Hexane		9/6/06	9/6/05	CP
W	–	—	8080 Surr	10uL	↓	2000ug/mL	400ug/L	↓		↓	↓	↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

VPH Sample Raw Data

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\038F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2069-1d x1
un Time Bar Code:
cquired on : 14 Jul 05 11:58 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\038F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.759	191809	BV	0.079	1	191.318	n-Pentane
3.839	334356	PV	0.132	1	54.025	2-Methylpentane
4.282	* not found *			1		MTBE
6.282	546640	VV	0.131	1	739.861	2,2,4-Trimethylpentane
6.582	440281	VV	0.082	1	320.968	Benzene
7.917	743015	VV	0.040	1	300.694	Toluene
8.680	25217	VV	0.052	1	6.327	n-Nonane
8.838	1523252	VV	0.037	1	861.637	EBenz, m-,p-Xylene
9.076	532462	VV	0.035	1	238.583	o-Xylene
9.399	68489	VV	0.033	1	263.819	BFB
9.758	761431	VV	0.033	1	706.288	1,2,4-Trimethylbenzene
11.206	127684	VV	0.040	1	509.569	Naphthalene
2.977	5044	PV	0.066		50.444	* uncalibrated *
3.239	44540	PV	0.140		445.401	* uncalibrated *
4.165	300570	VV	0.129		3005.698	* uncalibrated *
4.509	124290	VV	0.103		1242.903	* uncalibrated *
4.810	18917	VV	0.118		189.167	* uncalibrated *
5.084	65328	VV	0.157		653.282	* uncalibrated *
5.450	280403	VV	0.111		2804.025	* uncalibrated *
5.776	11334	VV	0.114		113.341	* uncalibrated *
5.942	69501	VV	0.085		695.010	* uncalibrated *
6.113	162008	VV	0.120		1620.077	* uncalibrated *
6.970	95961	VV	0.097		959.608	* uncalibrated *
7.109	146599	VV	0.071		1465.988	* uncalibrated *
7.273	155540	VV	0.075		1555.401	* uncalibrated *
7.375	223520	VV	0.075		2235.205	* uncalibrated *
7.512	80706	VV	0.086		807.061	* uncalibrated *
7.737	26454	VV	0.065		264.535	* uncalibrated *
7.788	30016	VV	0.052		300.158	* uncalibrated *
8.042	24415	VV	0.061		244.146	* uncalibrated *
8.127	14898	VV	0.060		148.982	* uncalibrated *
8.358	48395	VV	0.087		483.945	* uncalibrated *
8.455	18074	VV	0.049		180.736	* uncalibrated *
8.552	7479	VV	0.060		74.793	* uncalibrated *
9.261	127498	VV	0.037		1274.976	* uncalibrated *
9.525	923742	VV	0.049		9237.419	* uncalibrated *
9.688	207555	VV	0.033		2075.547	* uncalibrated *
9.887	47029	VV	0.047		470.290	* uncalibrated *
10.007	206157	VV	0.033		2061.572	* uncalibrated *
10.111	344139	VV	0.064		3441.385	* uncalibrated *
10.180	139556	VV	0.046		1395.557	* uncalibrated *

Data File Name : C:\HPCHEM\1\DATA\vp071405\038F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : g161-2069-1d x1
Run Time Bar Code:
Acquired on : 14 Jul 05 11:58 PM
Report Created on: 15 Jul 05 08:02 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

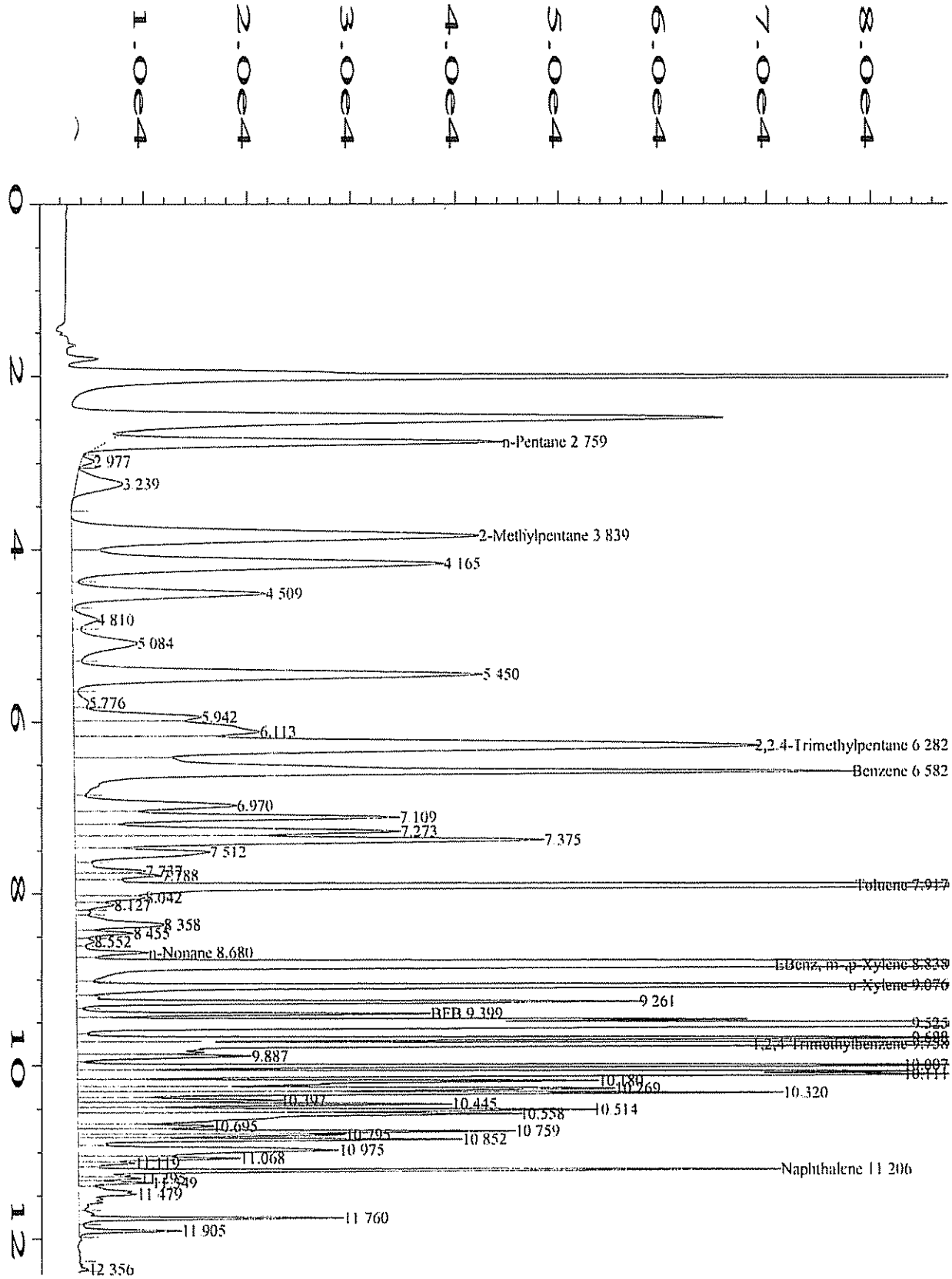
Page Number : 2
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.269	133538	VV	0.040	1335.384	* uncalibrated *
10.320	138535	VV	0.034	1385.346	* uncalibrated *
10.397	46859	VV	0.039	468.587	* uncalibrated *
10.445	78197	VV	0.033	781.974	* uncalibrated *
10.514	116008	VV	0.038	1160.081	* uncalibrated *
10.558	161580	VV	0.051	1615.803	* uncalibrated *
10.695	34525	VV	0.044	345.247	* uncalibrated *
10.759	99535	VV	0.039	995.345	* uncalibrated *
10.795	47103	VV	0.030	471.031	* uncalibrated *
10.852	76412	VV	0.042	764.123	* uncalibrated *
10.975	110412	VV	0.060	1104.116	* uncalibrated *
11.068	38994	VV	0.037	389.945	* uncalibrated *
11.119	12694	VV	0.039	126.939	* uncalibrated *
11.295	13036	VV	0.036	130.364	* uncalibrated *
11.349	15989	VV	0.034	159.895	* uncalibrated *
11.479	39001	VV	0.088	390.012	* uncalibrated *
11.760	51806	VV	0.034	518.063	* uncalibrated *
11.905	21201	VV	0.036	212.006	* uncalibrated *
12.356	1187	PBA	0.031	11.868	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

==========



Data File Name	: C:\HPCHEM\1\DATA\vp071405\038F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 38
Sample Name	: g161-2069-1d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 11:58 PM	Instrument Method:	GAS1.MTH
Report Created on:	15 Jul 05 08:02 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\038R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2069-1d x1
un Time Bar Code:
cquired on : 14 Jul 05 11:58 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

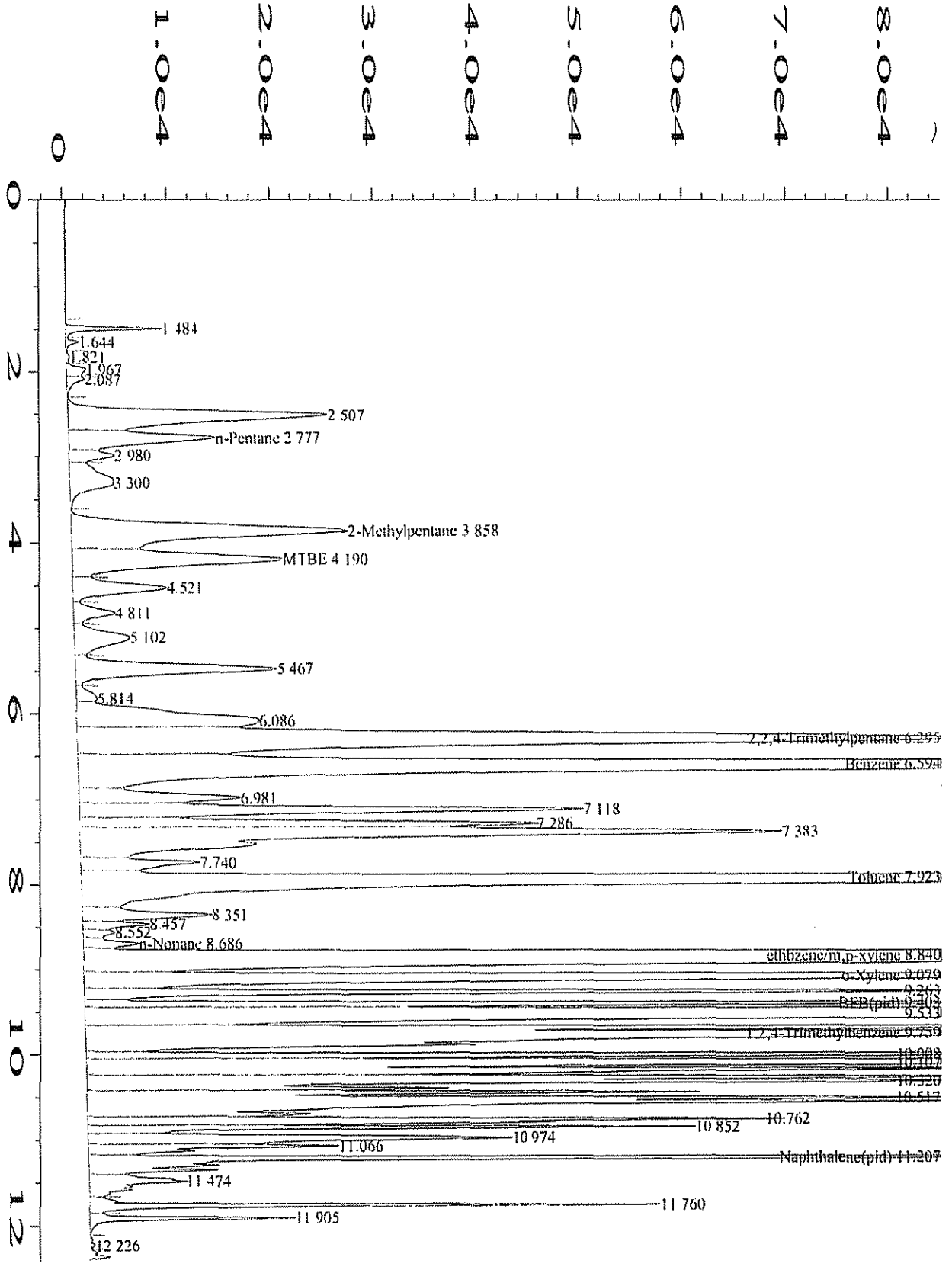
ig. 2 in C:\HPCHEM\1\DATA\vp071405\038R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.777	117658	VV	0.116	1	18.762	n-Pentane
3.858	299754	VV	0.166	1	31.743	2-Methylpentane
4.190	208453	VV	0.152	1	6.916	MTBE
6.295	883405	VV	0.157	1	58.059	2,2,4-Trimethylpentane
6.594	1660110	VV	0.084	1	20.865	Benzene
7.923	2475826	VV	0.054	1	60.676	Toluene
8.686	25926	VV	0.081	1	3.820	n-Nonane
8.840	4217032	VV	0.051	1	124.671	ethbzene/m,p-xylene
9.079	1270465	VV	0.047	1	32.800	o-Xylene
9.403	323882	VV	0.048	1	21.799	BFB(pid)
9.759	2199742	VV	0.077	1	71.647	1,2,4-Trimethylbenzene
11.207	374850	VV	0.056	1	21.416	Naphthalene(pid)
1.484	23090	BV	0.038		230.903	* uncalibrated *
1.644	4395	VV	0.051		43.954	* uncalibrated *
1.821	1937	VV	0.088		19.371	* uncalibrated *
1.967	12158	VV	0.093		121.580	* uncalibrated *
2.087	9114	VV	0.075		91.136	* uncalibrated *
2.507	240512	VV	0.139		2405.122	* uncalibrated *
2.980	26931	VV	0.091		269.313	* uncalibrated *
3.300	67429	VV	0.206		674.293	* uncalibrated *
4.521	76694	VV	0.129		766.944	* uncalibrated *
4.811	31546	VV	0.118		315.459	* uncalibrated *
5.102	65935	VV	0.190		659.354	* uncalibrated *
5.467	158710	VV	0.126		1587.101	* uncalibrated *
5.814	15848	VV	0.132		158.484	* uncalibrated *
6.086	197222	VV	0.164		1972.216	* uncalibrated *
6.981	105471	VV	0.100		1054.714	* uncalibrated *
7.118	265498	VV	0.082		2654.978	* uncalibrated *
7.286	213271	VV	0.080		2132.708	* uncalibrated *
7.383	552899	VV	0.116		5528.991	* uncalibrated *
7.740	71752	VV	0.103		717.519	* uncalibrated *
8.351	74251	VV	0.088		742.510	* uncalibrated *
8.457	26746	VV	0.069		267.455	* uncalibrated *
8.552	14222	VV	0.076		142.219	* uncalibrated *
9.263	246255	VV	0.043		2462.545	* uncalibrated *
9.533	2143011	VV	0.067		21430.11	* uncalibrated *
10.008	379183	VV	0.036		3791.833	* uncalibrated *
10.107	964767	VV	0.086		9647.671	* uncalibrated *
10.320	572274	VV	0.099		5722.742	* uncalibrated *
10.517	737431	VV	0.119		7374.306	* uncalibrated *
10.762	248926	VV	0.058		2489.259	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp071405\038R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2069-1d x1
un Time Bar Code:
cquired on : 14 Jul 05 11:58 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.852	141968	VV	0.040	1419.677	* uncalibrated *
10.974	191186	VV	0.071	1911.859	* uncalibrated *
11.066	90326	VV	0.060	903.255	* uncalibrated *
11.474	69960	VV	0.106	699.600	* uncalibrated *
11.760	120774	VV	0.037	1207.738	* uncalibrated *
11.905	48917	VV	0.063	489.166	* uncalibrated *
12.226	1382	PV	0.058	13.819	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\038R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 38
Sample Name	: g161-2069-1d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 11:58 PM	Instrument Method:	GAS1.MTH
Report Created on:	15 Jul 05 08:03 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp071405\039F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 39
ample Name	: g161-2069-2d x1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 15 Jul 05 00:23 AM	Instrument Method:	GAS1.MTH
eport Created on:	15 Jul 05 08:03 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

DCS 7/15

ig. 1 in C:\HPCHEM\1\DATA\vp071405\039F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.756	56624	BV	0.080	1	56.479	n-Pentane
3.835	36179	BV	0.139	1	6.426	2-Methylpentane
4.282	* not found *			1		MTBE
6.234	120946	VV	0.105	1	23.231	2,2,4-Trimethylpentane
6.655	39079	VV	0.075	1	4.953	Benzene
7.917	59368	VV	0.042	1	6.302	Toluene
8.683	10433	VV	0.051	1	2.618	n-Nonane
8.837	3156957	VV	0.032	1	3348.809	EBenz, m-,p-Xylene
9.076	157767	VV	0.036	1	15.664	o-Xylene
9.399	62513	VV	0.032	1	240.799	BFB
9.757	1446067	VV	0.031	1	1889.275	1,2,4-Trimethylbenzene
11.206	462432	VV	0.039	1	-3247.586	Naphthalene
2.979	16273	PV	0.075		162.725	* uncalibrated *
3.155	25041	VB	0.160		250.408	* uncalibrated *
4.157	108294	VV	0.129		1082.944	* uncalibrated *
4.501	15976	VV	0.113		159.757	* uncalibrated *
4.809	34766	VV	0.164		347.660	* uncalibrated *
5.180	45653	VV	0.180		456.528	* uncalibrated *
5.450	119614	VV	0.111		1196.137	* uncalibrated *
5.945	5145	VV	0.086		51.449	* uncalibrated *
6.065	15942	VV	0.097		159.418	* uncalibrated *
6.520	29381	VV	0.116		293.807	* uncalibrated *
6.980	12022	VV	0.088		120.216	* uncalibrated *
7.109	36532	VV	0.069		365.324	* uncalibrated *
7.267	16066	VV	0.090		160.657	* uncalibrated *
7.408	38352	VV	0.088		383.519	* uncalibrated *
7.523	26360	VV	0.072		263.599	* uncalibrated *
7.784	20544	VV	0.071		205.435	* uncalibrated *
8.076	10781	VV	0.081		107.808	* uncalibrated *
8.363	13424	VV	0.082		134.240	* uncalibrated *
8.460	6696	VV	0.059		66.957	* uncalibrated *
8.556	2521	VV	0.068		25.207	* uncalibrated *
8.797	2092289	VV	0.032		20922.89	* uncalibrated *
9.261	237268	VV	0.035		2372.683	* uncalibrated *
9.471	254746	VV	0.030		2547.455	* uncalibrated *
9.526	1519052	VV	0.049		15190.52	* uncalibrated *
9.688	558669	VV	0.033		5586.689	* uncalibrated *
9.887	34399	VV	0.048		343.990	* uncalibrated *
10.007	413508	VV	0.032		4135.078	* uncalibrated *
10.111	187697	VV	0.050		1876.975	* uncalibrated *
10.178	747536	VV	0.031		7475.363	* uncalibrated *

Data File Name : C:\HPCHEM\1\DATA\vp071405\039F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : g161-2069-2d x1
Run Time Bar Code:
Acquired on : 15 Jul 05 00:23 AM
Report Created on: 15 Jul 05 08:03 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 2
Vial Number : 39
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.268	113040	VV	0.041	1130.398	* uncalibrated *
10.320	112769	VV	0.033	1127.687	* uncalibrated *
10.397	52851	VV	0.032	528.514	* uncalibrated *
10.444	117448	VV	0.032	1174.483	* uncalibrated *
10.513	99533	VV	0.037	995.335	* uncalibrated *
10.556	96061	VV	0.037	960.610	* uncalibrated *
10.696	11308	VV	0.041	113.084	* uncalibrated *
10.760	139109	VV	0.047	1391.093	* uncalibrated *
10.852	154453	VV	0.033	1544.526	* uncalibrated *
10.976	76028	VV	0.051	760.280	* uncalibrated *
11.067	33603	VV	0.043	336.027	* uncalibrated *
11.297	17190	VV	0.040	171.897	* uncalibrated *
11.349	9273	VV	0.035	92.733	* uncalibrated *
11.450	18085	VV	0.074	180.848	* uncalibrated *
11.570	5133	VV	0.048	51.331	* uncalibrated *
11.759	52664	VV	0.032	526.644	* uncalibrated *
11.905	23182	VV	0.032	231.819	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

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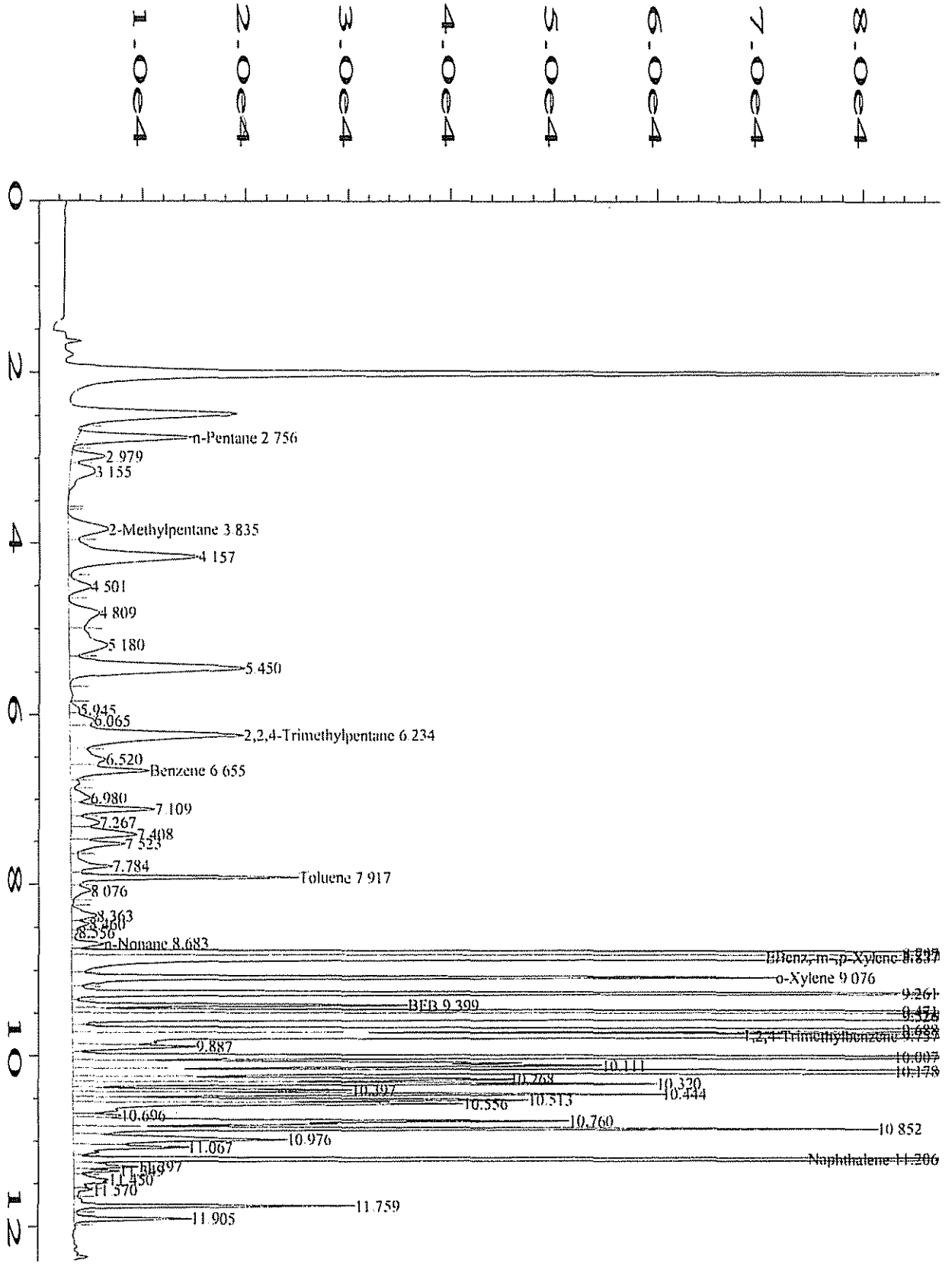


Data File Name	: C:\HPCHEM\1\DATA\vp071405\039F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 39
Sample Name	: g161-2069-2d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 00:23 AM	Instrument Method:	GAS1.MTH
Report Created on:	15 Jul 05 08:03 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\vp071405\039R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : g161-2069-2d x1
Run Time Bar Code:
Acquired on : 15 Jul 05 00:23 AM
Report Created on: 15 Jul 05 08:03 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

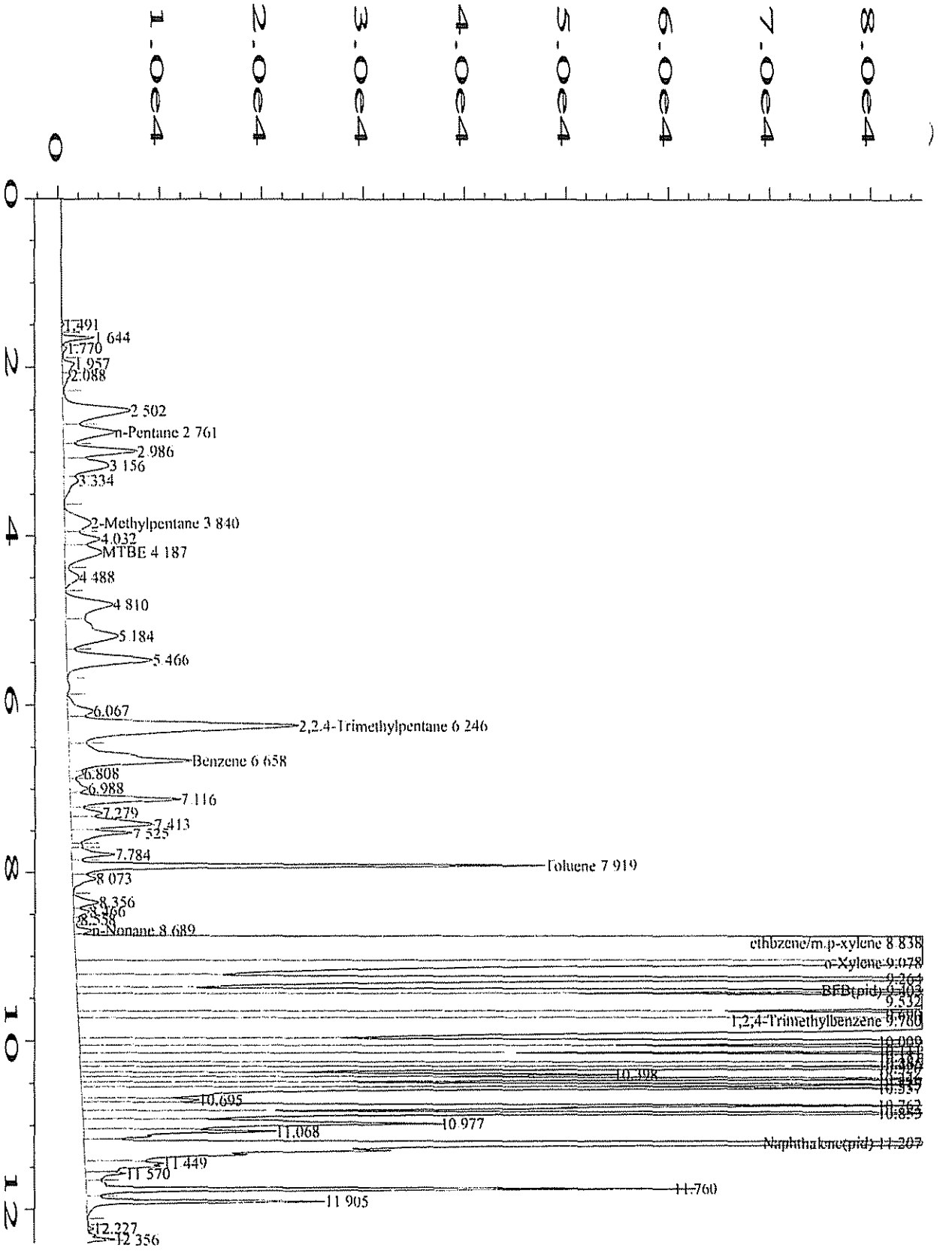
Sig. 2 in C:\HPCHEM\1\DATA\vp071405\039R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.761	42799	VV	0.115	1	6.825	n-Pentane
3.840	27020	VV	0.163	1	2.861	2-Methylpentane
4.187	36076	VV	0.148	1	1.197	MTBE
6.246	174641	VV	0.115	1	11.478	2,2,4-Trimethylpentane
6.658	97130	VV	0.110	1	1.221	Benzene
7.919	128699	VV	0.043	1	3.154	Toluene
8.689	6567	VV	0.056	1	0.968	n-Nonane
8.838	1.42735E+007	VV	0.062	1	421.980	ethbzene/m,p-xylene
9.078	671136	VV	0.054	1	17.327	o-Xylene
9.403	352361	VV	0.036	1	23.716	BFB(pid)
9.760	3930616	VV	0.072	1	128.023	1,2,4-Trimethylbenzene
11.207	1388057	VV	0.053	1	79.304	Naphthalene(pid)
1.491	600	BB	0.031		6.005	* uncalibrated *
1.644	9452	BV	0.043		94.517	* uncalibrated *
1.770	2070	VV	0.061		20.704	* uncalibrated *
1.957	7627	VV	0.088		76.267	* uncalibrated *
2.088	5069	VV	0.085		50.687	* uncalibrated *
2.502	62858	VV	0.138		628.576	* uncalibrated *
2.986	41025	VV	0.086		410.253	* uncalibrated *
3.156	41630	VV	0.146		416.303	* uncalibrated *
3.334	12422	VV	0.119		124.221	* uncalibrated *
4.032	24587	VV	0.100		245.866	* uncalibrated *
4.488	11013	VV	0.127		110.130	* uncalibrated *
4.810	47606	PV	0.149		476.060	* uncalibrated *
5.184	64309	VV	0.180		643.094	* uncalibrated *
5.466	63921	VV	0.118		639.205	* uncalibrated *
6.067	18480	VV	0.106		184.799	* uncalibrated *
6.808	6015	VV	0.062		60.147	* uncalibrated *
6.988	11813	VV	0.090		118.127	* uncalibrated *
7.116	51155	VV	0.072		511.554	* uncalibrated *
7.279	15772	VV	0.074		157.719	* uncalibrated *
7.413	48731	VV	0.086		487.309	* uncalibrated *
7.525	30915	VV	0.072		309.150	* uncalibrated *
7.784	20100	VV	0.066		201.005	* uncalibrated *
8.073	13637	VV	0.082		136.366	* uncalibrated *
8.356	12966	PV	0.076		129.658	* uncalibrated *
8.466	6652	VV	0.063		66.524	* uncalibrated *
8.558	2557	VV	0.054		25.569	* uncalibrated *
9.264	560298	VV	0.045		5602.985	* uncalibrated *
9.532	4413408	VV	0.068		44134.08	* uncalibrated *
9.690	1131017	VV	0.037		11310.17	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp071405\039R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2069-2d x1
un Time Bar Code:
cquired on : 15 Jul 05 00:23 AM
eport Created on: 15 Jul 05 08:03 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 39
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.009	843555	VV	0.036	8435.550	* uncalibrated *
10.111	462706	VV	0.067	4627.058	* uncalibrated *
10.181	1697248	VV	0.054	16972.48	* uncalibrated *
10.265	339930	VV	0.050	3399.300	* uncalibrated *
10.320	262194	VV	0.040	2621.940	* uncalibrated *
10.398	120564	VV	0.038	1205.640	* uncalibrated *
10.446	234780	VV	0.040	2347.796	* uncalibrated *
10.515	203201	VV	0.040	2032.007	* uncalibrated *
10.557	239460	VV	0.043	2394.598	* uncalibrated *
10.695	30066	VV	0.044	300.663	* uncalibrated *
10.762	265204	VV	0.050	2652.042	* uncalibrated *
10.853	290237	VV	0.039	2902.375	* uncalibrated *
10.977	153065	VV	0.059	1530.654	* uncalibrated *
11.068	68674	VV	0.050	686.740	* uncalibrated *
11.449	42501	VV	0.076	425.011	* uncalibrated *
11.570	15647	VV	0.066	156.472	* uncalibrated *
11.760	128624	VV	0.036	1286.245	* uncalibrated *
11.905	55697	VV	0.062	556.968	* uncalibrated *
12.227	1193	VV	0.032	11.932	* uncalibrated *
12.356	1398	PBA	0.021	13.985	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\039R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 39
Sample Name	: g161-2069-2d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 15 Jul 05 00:23 AM	Instrument Method:	GAS1.MTH
Report Created on:	15 Jul 05 08:03 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH Calibration Raw Data

External Standard Report

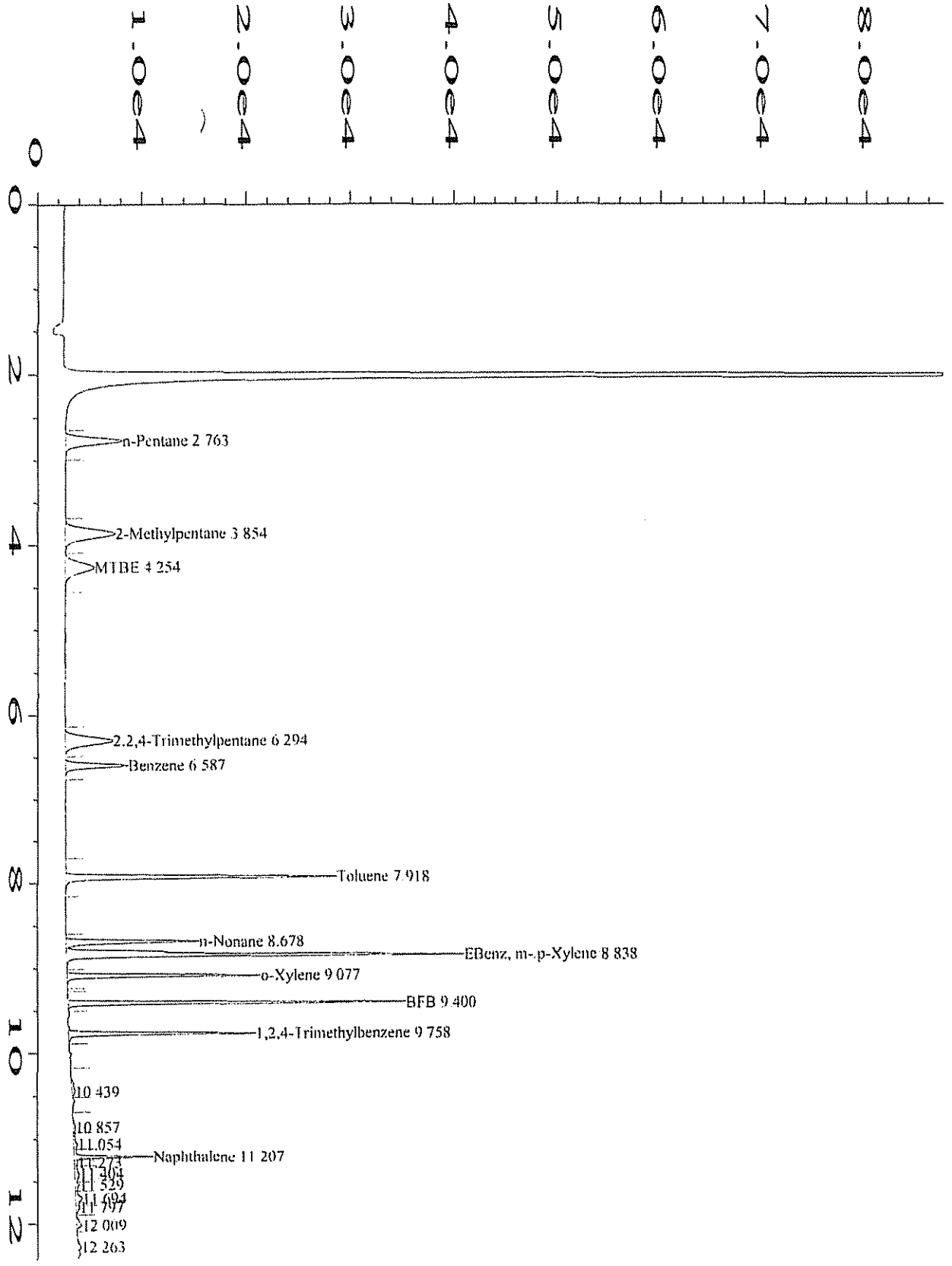
ıta File Name : C:\HPCHEM\1\DATA\vp071405\003F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 10
ın Time Bar Code:
:quired on : 14 Jul 05 09:14 AM
ɜport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

.g. 1 in C:\HPCHEM\1\DATA\vp071405\003F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.763	29353	BB	0.083	1	29.278	n-Pentane
3.854	37166	BV	0.116	1	6.601	2-Methylpentane
4.254	24008	VB	0.134	1	56.277	MTBE
6.294	30739	BV	0.103	1	5.904	2,2,4-Trimethylpentane
6.587	21736	VB	0.056	1	2.755	Benzene
7.918	64387	BB	0.039	1	6.835	Toluene
8.678	31081	BV	0.038	1	7.799	n-Nonane
8.838	98512	VV	0.038	1	9.630	EBenz, m-,p-Xylene
9.077	39065	VB	0.033	1	3.879	o-Xylene
9.400	58014	BV	0.029	1	223.467	BFB
9.758	35372	VB	0.031	1	3.765	1,2,4-Trimethylbenzene
11.207	14181	VV	0.041	1	3.346	Naphthalene
10.439	2255	BV	0.105		22.555	* uncalibrated *
10.857	1787	BV	0.113		17.873	* uncalibrated *
11.054	2590	VV	0.108		25.898	* uncalibrated *
11.273	1043	VV	0.053		10.425	* uncalibrated *
11.404	3422	VV	0.103		34.219	* uncalibrated *
11.529	1764	VV	0.063		17.642	* uncalibrated *
11.694	3765	VV	0.084		37.645	* uncalibrated *
11.797	1394	VV	0.056		13.939	* uncalibrated *
12.009	2478	VV	0.066		24.778	* uncalibrated *
12.263	1253	PV	0.064		12.529	* uncalibrated *

ɜlibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\003F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 3
ample Name	: V 10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

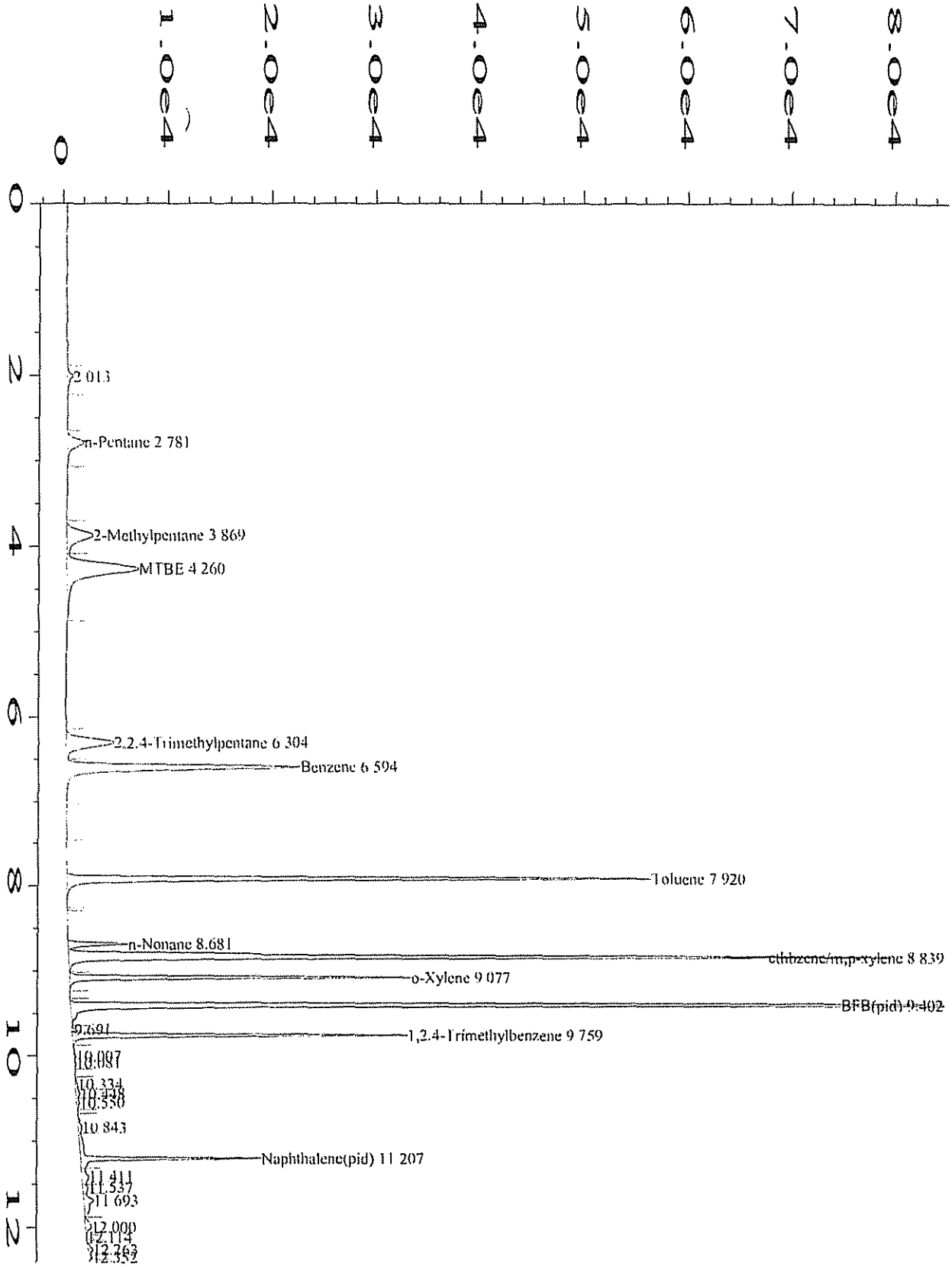
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\003R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 10
un Time Bar Code:
cquired on : 14 Jul 05 09:14 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\003R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.781	11221	BB	0.105	1	1.789	n-Pentane
3.869	22217	BV	0.135	1	2.353	2-Methylpentane
4.260	67014	VB	0.148	1	2.223	MTBE
6.304	33150	PV	0.114	1	2.179	2,2,4-Trimethylpentane
6.594	97400	VV	0.067	1	1.224	Benzene
7.920	145561	BB	0.041	1	3.567	Toluene
8.681	13863	BV	0.038	1	2.042	n-Nonane
8.839	207632	VV	0.044	1	6.138	ethbzene/m,p-xylene
9.077	71464	VV	0.035	1	1.845	o-Xylene
9.402	273788	BV	0.032	1	18.427	BFB(pid)
9.759	65359	VV	0.065	1	2.129	1,2,4-Trimethylbenzene
11.207	38413	VV	0.047	1	2.195	Naphthalene(pid)
2.013	3435	BB	0.082		34.352	* uncalibrated *
9.691	444	VV	0.032		4.435	* uncalibrated *
10.007	986	VV	0.081		9.860	* uncalibrated *
10.081	560	VV	0.068		5.601	* uncalibrated *
10.334	1050	BV	0.058		10.503	* uncalibrated *
10.448	2356	VV	0.078		23.563	* uncalibrated *
10.550	1626	VV	0.073		16.263	* uncalibrated *
10.843	2978	VV	0.120		29.781	* uncalibrated *
11.411	5437	VV	0.116		54.370	* uncalibrated *
11.537	2772	VV	0.076		27.724	* uncalibrated *
11.693	7717	VV	0.114		77.175	* uncalibrated *
12.000	3835	VV	0.094		38.352	* uncalibrated *
12.114	157	VV	0.037		1.571	* uncalibrated *
12.263	1880	PV	0.064		18.801	* uncalibrated *
12.352	512	VBA	0.037		5.121	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\003R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:14 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

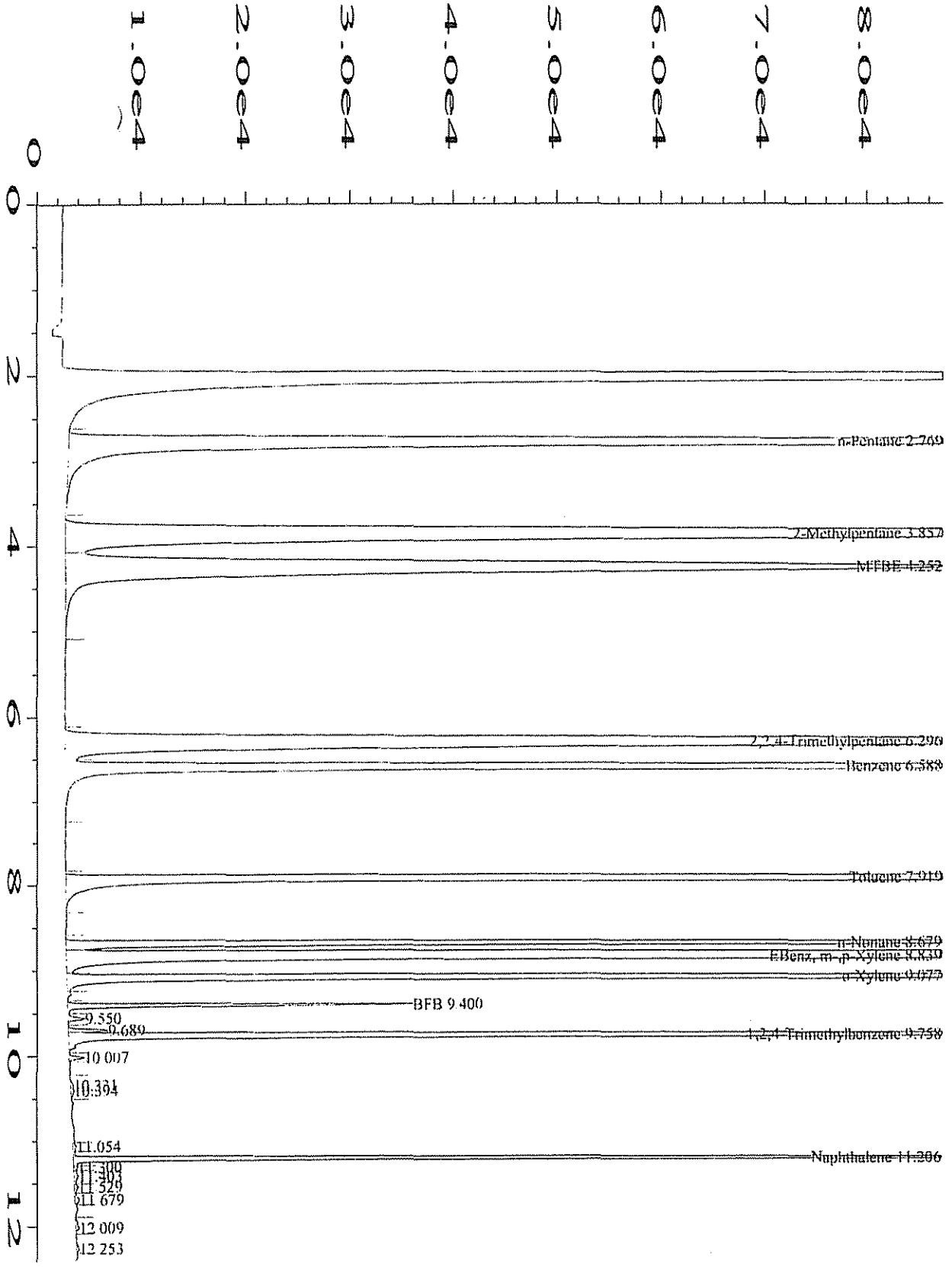
ata File Name : C:\HPCHEM\1\DATA\vp071405\004F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
an Time Bar Code:
equired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\004F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.769	838621	BB	0.089	1	1660.550	n-Pentane
3.857	1066067	BV	0.120	1	1319.603	2-Methylpentane
4.252	758973	VB	0.136	1	17730.02	MTBE
6.296	873405	VV	0.104	1	1688.183	2,2,4-Trimethylpentane
6.588	664162	VB	0.057	1	559.504	Benzene
7.919	1883722	BV	0.039	1	1845.051	Toluene
8.679	570597	BV	0.037	1	739.268	n-Nonane
8.839	2915194	VV	0.042	1	2980.747	EBenz, m-,p-Xylene
9.077	1160395	VV	0.033	1	1200.910	o-Xylene
9.400	60522	VV	0.047	1	233.128	BFB
9.758	1004871	VV	0.031	1	1126.930	1,2,4-Trimethylbenzene
11.206	345847	VV	0.048	1	-1939.058	Naphthalene
9.550	3820	VV	0.037		38.201	* uncalibrated *
9.689	7049	PV	0.031		70.490	* uncalibrated *
10.007	2929	VV	0.046		29.285	* uncalibrated *
10.331	1325	PV	0.061		13.252	* uncalibrated *
10.394	1460	VV	0.068		14.603	* uncalibrated *
11.054	1474	VV	0.063		14.739	* uncalibrated *
11.300	1054	VV	0.044		10.538	* uncalibrated *
11.403	2641	VV	0.081		26.411	* uncalibrated *
11.529	1510	VV	0.059		15.104	* uncalibrated *
11.679	2410	VV	0.076		24.101	* uncalibrated *
12.009	1748	PV	0.067		17.479	* uncalibrated *
12.253	1115	PV	0.066		11.146	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\004F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: V 250	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 09:40 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

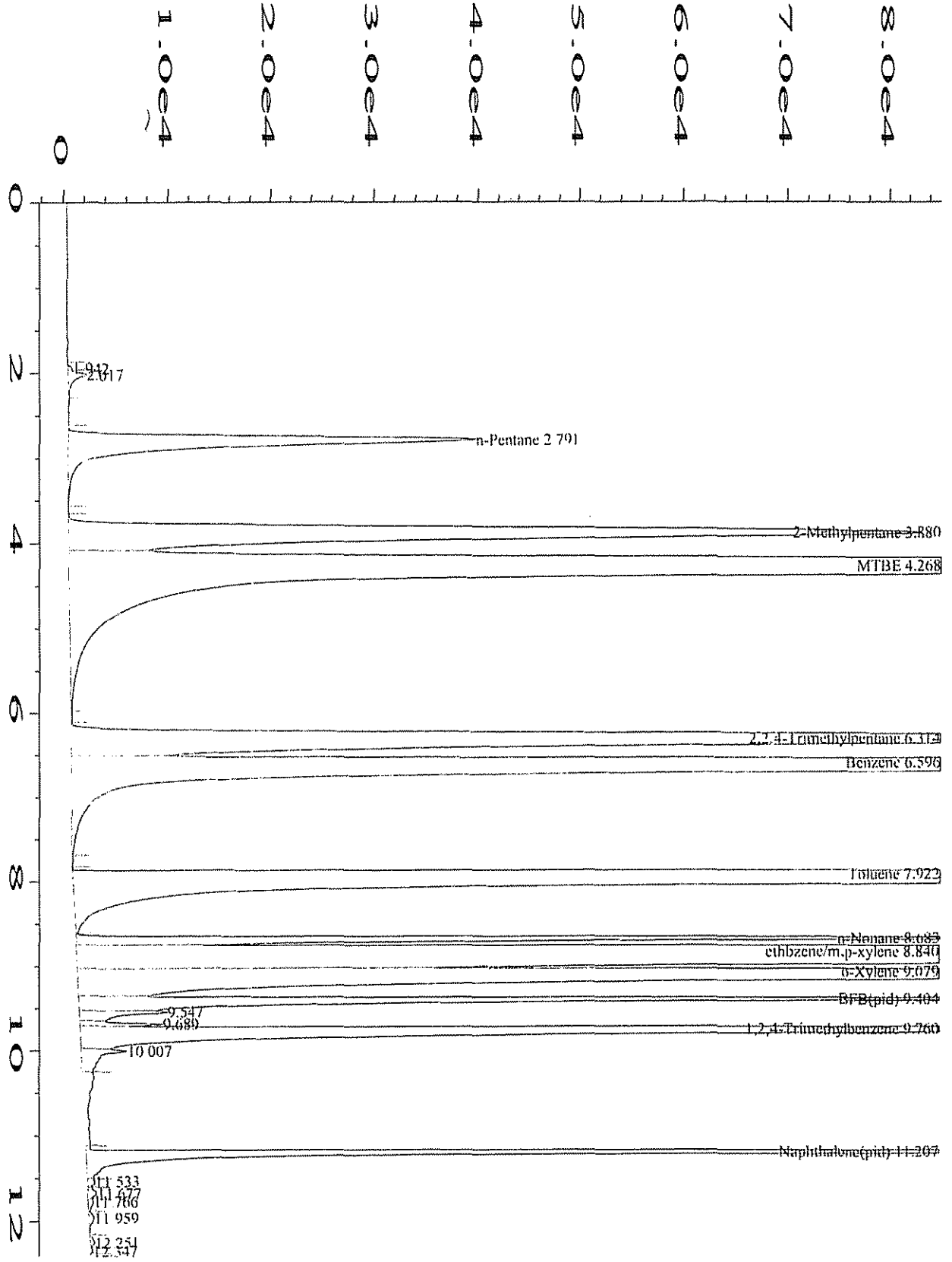
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\004R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
in Time Bar Code:
cquired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\004R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.791	326414	BB	0.122	1	52.051	n-Pentane
3.880	788591	BV	0.147	1	83.508	2-Methylpentane
4.268	3099474	VV	0.160	1	102.826	MTBE
6.314	1282014	VV	0.126	1	84.257	2,2,4-Trimethylpentane
6.596	3691908	VV	0.079	1	46.402	Benzene
7.922	6251271	PV	0.051	1	153.203	Toluene
8.683	368250	VV	0.044	1	54.256	n-Nonane
8.840	8393130	VV	0.057	1	248.133	ethbzene/m,p-xylene
9.079	3321363	VV	0.052	1	85.749	o-Xylene
9.404	457587	VV	0.042	1	30.798	BFB(pid)
9.760	2254703	VV	0.039	1	73.438	1,2,4-Trimethylbenzene
11.207	934074	VV	0.082	1	53.367	Naphthalene(pid)
1.942	1179	BV	0.042		11.788	* uncalibrated *
2.017	9688	VV	0.076		96.879	* uncalibrated *
9.547	34471	VV	0.067		344.714	* uncalibrated *
9.689	18711	VV	0.039		187.113	* uncalibrated *
10.007	31886	VV	0.092		318.858	* uncalibrated *
11.533	3651	VV	0.072		36.513	* uncalibrated *
11.677	5019	VV	0.083		50.185	* uncalibrated *
11.766	3250	VV	0.091		32.495	* uncalibrated *
11.959	4071	VV	0.110		40.709	* uncalibrated *
12.251	2050	PV	0.072		20.501	* uncalibrated *
12.347	360	VBA	0.042		3.600	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 09:40 AM	Instrument Method	: GAS1.MTH
Report Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

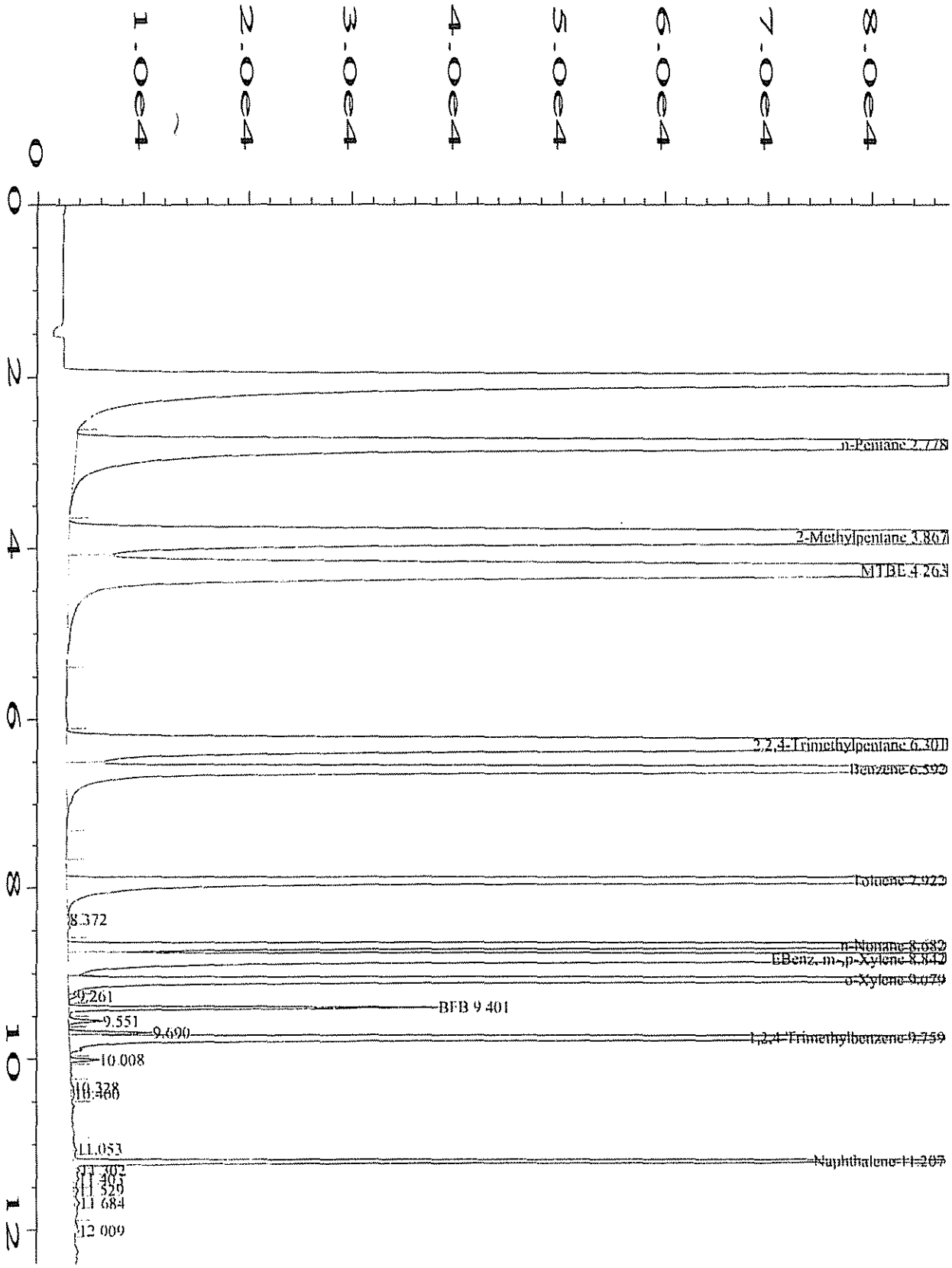
ata File Name : C:\HPCHEM\1\DATA\vp071405\005F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
an Time Bar Code:
cquired on : 14 Jul 05 10:05 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\005F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	1742970	BV	0.094	1	4265.646	n-Pentane
3.867	2181370	PV	0.119	1	3248.649	2-Methylpentane
4.263	1736534	VB	0.137	1	51020.45	MTBE
6.301	1977652	VV	0.104	1	4892.879	2,2,4-Trimethylpentane
6.592	1408771	VB	0.057	1	1352.853	Benzene
7.922	3903076	BV	0.038	1	4578.974	Toluene
8.682	1826421	BV	0.036	1	2874.951	n-Nonane
8.842	6104778	VV	0.037	1	7836.609	EBenz, m-,p-Xylene
9.079	2396482	VV	0.033	1	3095.254	o-Xylene
9.401	66026	VV	0.030	1	254.328	BFB
9.759	2056422	VV	0.031	1	2943.913	1,2,4-Trimethylbenzene
11.207	774715	VV	0.026	1	-6752.609	Naphthalene
8.372	1147	VV	0.077		11.466	* uncalibrated *
9.261	2099	VV	0.041		20.990	* uncalibrated *
9.551	7152	VV	0.035		71.523	* uncalibrated *
9.690	14866	PV	0.030		148.660	* uncalibrated *
10.008	5222	PV	0.031		52.219	* uncalibrated *
10.328	1278	BV	0.068		12.776	* uncalibrated *
10.400	1644	VV	0.076		16.440	* uncalibrated *
11.053	2238	VV	0.072		22.384	* uncalibrated *
11.302	1855	VV	0.037		18.548	* uncalibrated *
11.403	3419	VV	0.093		34.188	* uncalibrated *
11.529	2004	VV	0.064		20.038	* uncalibrated *
11.684	2784	VV	0.076		27.841	* uncalibrated *
12.009	2112	VV	0.074		21.116	* uncalibrated *

alibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp071405\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
Report Created on:	07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

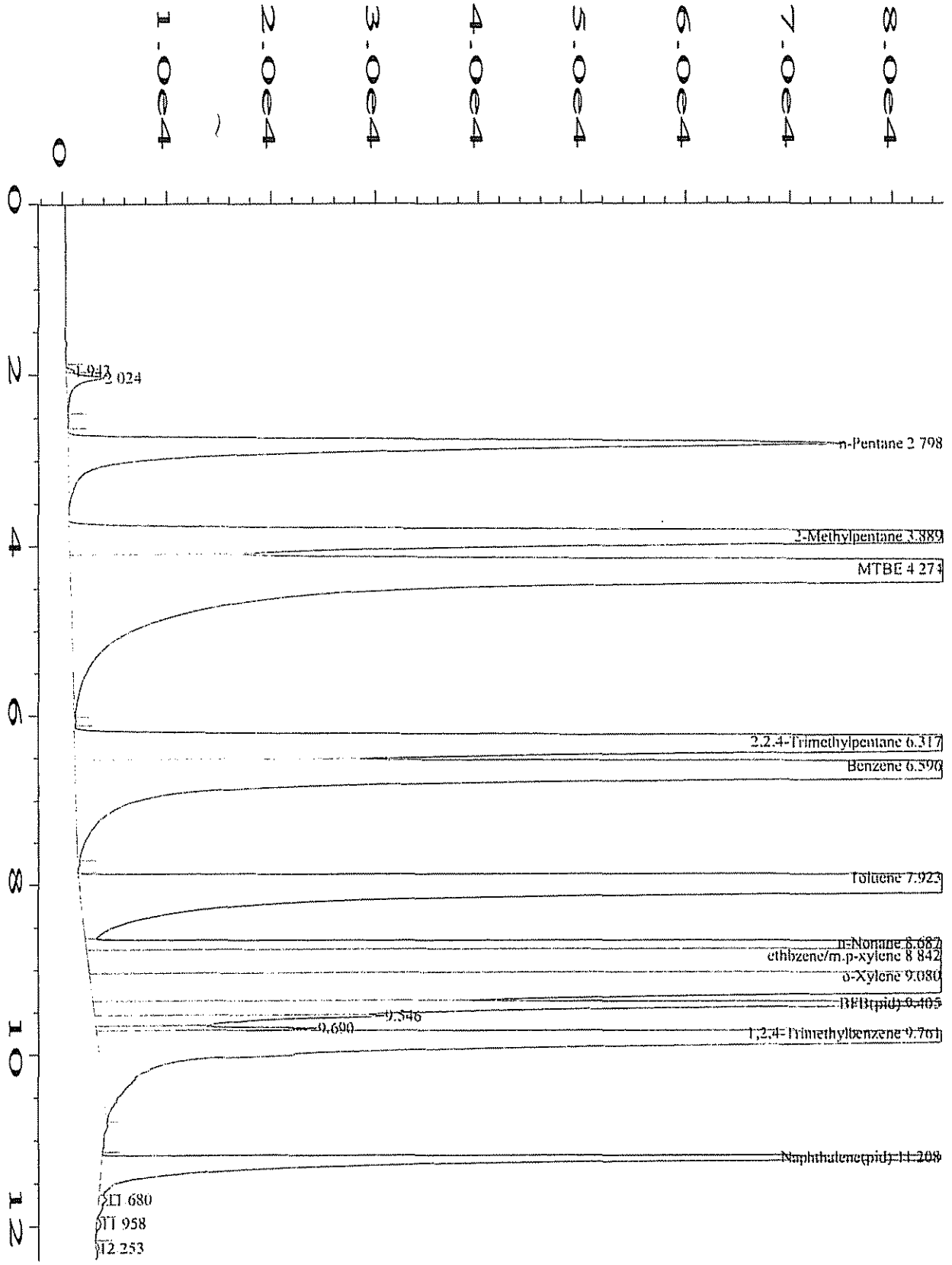
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\005R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 14 Jul 05 10:05 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\005R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.798	665272	BV	0.127	1	106.086	n-Pentane
3.889	1610206	PV	0.145	1	170.513	2-Methylpentane
4.274	6890871	VV	0.166	1	228.607	MTBE
6.317	2946490	VV	0.131	1	193.649	2,2,4-Trimethylpentane
6.596	6903642	VV	0.081	1	86.770	Benzene
7.923	1.17723E+007	PV	0.054	1	288.510	Toluene
8.687	1339610	VV	0.048	1	197.371	n-Nonane
8.842	1.61892E+007	VV	0.052	1	478.613	ethbzene/m,p-xylene
9.080	7706672	VV	0.051	1	198.967	o-Xylene
9.405	731569	VV	0.053	1	49.238	BFB(pid)
9.761	5207830	VV	0.039	1	169.623	1,2,4-Trimethylbenzene
11.208	2227832	PV	0.031	1	127.284	Naphthalene(pid)
1.943	2003	BV	0.040		20.035	* uncalibrated *
2.024	23244	VB	0.084		232.435	* uncalibrated *
9.546	133527	VV	0.079		1335.268	* uncalibrated *
9.690	55487	VV	0.038		554.872	* uncalibrated *
11.680	4387	VV	0.078		43.866	* uncalibrated *
11.958	3333	VV	0.106		33.335	* uncalibrated *
12.253	1461	PV	0.068		14.609	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:05 AM	Instrument Method:	GAS1.MTH
eport Created on:	07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

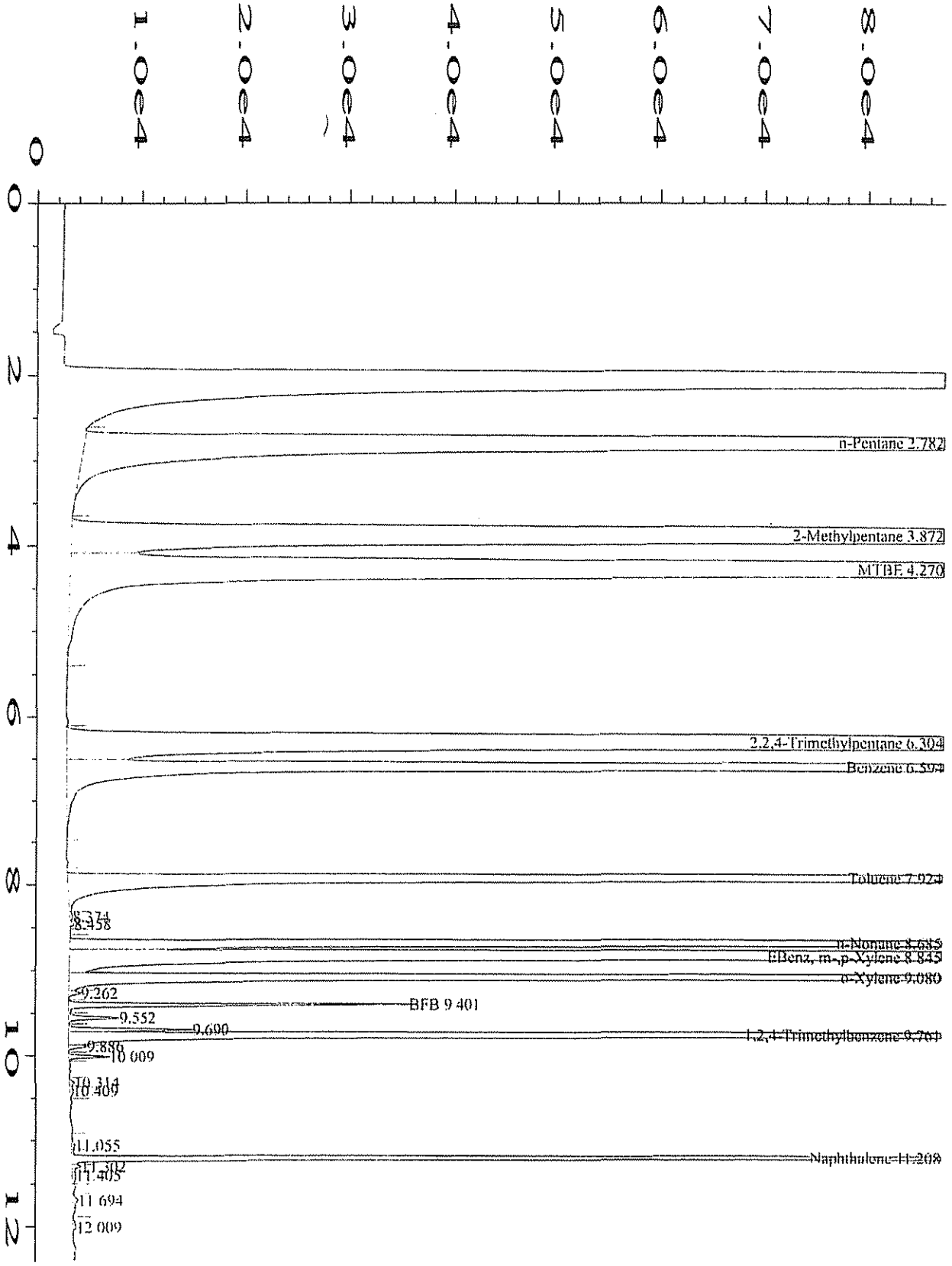
ata File Name : C:\HPCHEM\1\DATA\vp071405\006F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 750
un Time Bar Code:
cquired on : 14 Jul 05 10:30 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp071405\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.782	2652861	BV	0.097	1	6886.704	n-Pentane
3.872	3424588	PV	0.119	1	5398.938	2-Methylpentane
4.270	2615165	VB	0.136	1	80941.89	MTBE
6.304	3347705	VV	0.105	1	8868.986	2,2,4-Trimethylpentane
6.594	2207719	VV	0.057	1	2204.097	Benzene
7.924	5984413	BV	0.037	1	7396.813	Toluene
8.685	3017734	BV	0.036	1	4900.926	n-Nonane
8.845	9264266	VV	0.036	1	12646.65	EBenz, m-,p-Xylene
9.080	3555046	VV	0.033	1	4870.791	o-Xylene
9.401	63490	PV	0.030	1	244.560	BFB
9.761	3032646	VV	0.030	1	4630.738	1,2,4-Trimethylbenzene
11.208	1137876	VV	0.026	1	-10828.67	Naphthalene
8.374	1497	VV	0.074		14.971	* uncalibrated *
8.458	1134	VB	0.043		11.342	* uncalibrated *
9.262	3166	VV	0.040		31.660	* uncalibrated *
9.552	11093	VV	0.035		110.925	* uncalibrated *
9.690	23714	VV	0.031		237.136	* uncalibrated *
9.886	3865	VV	0.036		38.648	* uncalibrated *
10.009	7822	VV	0.031		78.224	* uncalibrated *
10.314	1455	PV	0.044		14.550	* uncalibrated *
10.409	1722	VV	0.094		17.218	* uncalibrated *
11.055	2011	VV	0.072		20.107	* uncalibrated *
11.302	2878	VV	0.043		28.781	* uncalibrated *
11.405	2499	VV	0.082		24.985	* uncalibrated *
11.694	4348	VV	0.107		43.479	* uncalibrated *
12.009	1945	VV	0.073		19.448	* uncalibrated *

alibration table contains at least one peak with amt = 0



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perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: V 750	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 10:30 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

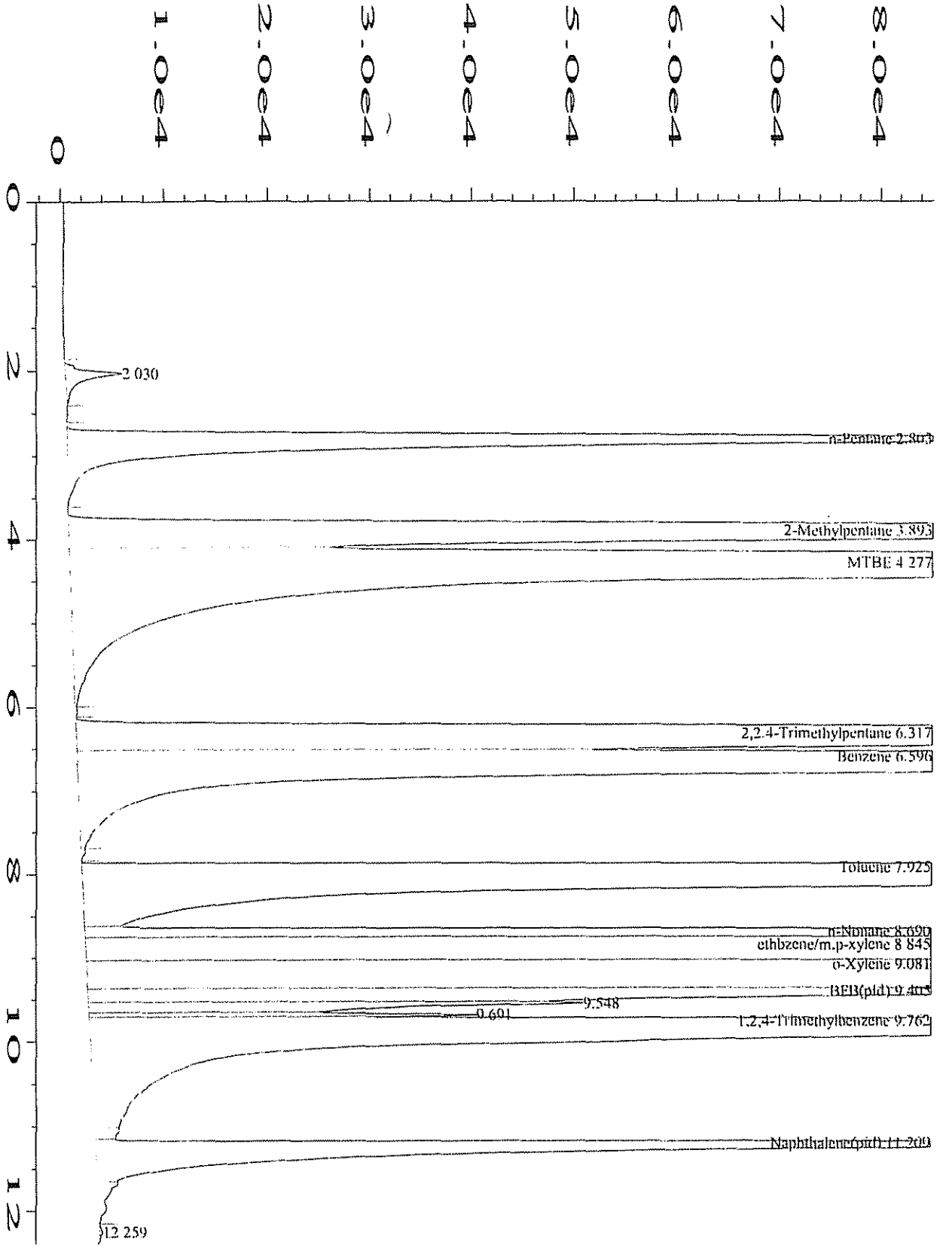
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\006R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 750
un Time Bar Code:
cquired on : 14 Jul 05 10:30 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\006R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.803	975481	BV	0.134	1	155.553	n-Pentane
3.893	2424534	PV	0.149	1	256.747	2-Methylpentane
4.277	9621048	VV	0.170	1	319.182	MTBE
6.317	4725068	PV	0.132	1	310.541	2,2,4-Trimethylpentane
6.596	9633231	VV	0.083	1	121.077	Benzene
7.925	1.64822E+007	PV	0.055	1	403.937	Toluene
8.690	2120721	VV	0.048	1	312.456	n-Nonane
8.845	2.20006E+007	VV	0.053	1	650.422	ethbzene/m,p-xylene
9.081	1.12653E+007	VV	0.053	1	290.842	o-Xylene
9.405	956172	VV	0.098	1	64.355	BFB(pid)
9.762	8311246	VV	0.043	1	270.704	1,2,4-Trimethylbenzene
11.209	3517427	VV	0.057	1	200.962	Naphthalene(pid)
2.030	38178	BV	0.091		381.778	* uncalibrated *
9.548	252959	VV	0.087		2529.595	* uncalibrated *
9.691	102580	VV	0.039		1025.798	* uncalibrated *
12.259	1377	VV	0.069		13.769	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp071405\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 10:30 AM	Instrument Method	: GAS1.MTH
Report Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

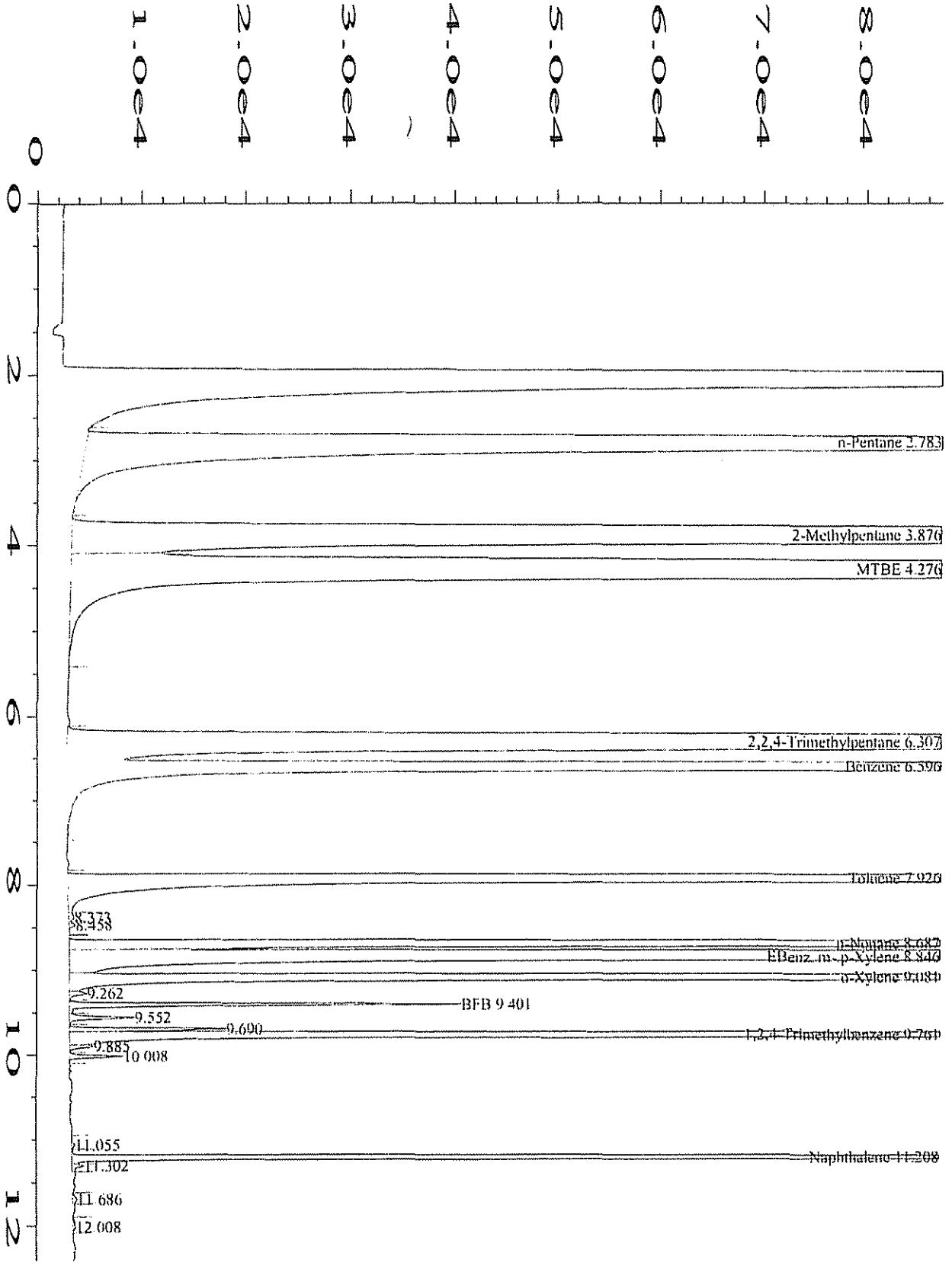
ıta File Name : C:\HPCHEM\1\DATA\vp071405\008F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : V 1000
ın Time Bar Code:
ɔquired on : 14 Jul 05 11:21 AM
ɜport Created on: 07 Sep 05 02:35 PM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ıg. 1 in C:\HPCHEM\1\DATA\vp071405\008F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.783	3704165	BV	0.098	1	9915.121	n-Pentane
3.876	4661301	PV	0.120	1	7537.976	2-Methylpentane
4.276	3978270	VV	0.136	1	127361.9	MTBE
6.307	4551928	VV	0.104	1	12363.83	2,2,4-Trimethylpentane
6.596	3043185	VV	0.057	1	3094.250	Benzene
7.926	8164170	BV	0.037	1	10347.90	Toluene
8.687	4098524	BV	0.036	1	6738.942	n-Nonane
8.846	1.26057E+007	VV	0.035	1	17733.71	EBenz, m-,p-Xylene
9.081	4759327	VV	0.032	1	6716.389	o-Xylene
9.401	72627	VV	0.030	1	279.757	BFB
9.761	3901614	VV	0.030	1	6132.235	1,2,4-Trimethylbenzene
11.208	1571818	VV	0.026	1	-15699.17	Naphthalene
8.373	2545	VV	0.076		25.448	* uncalibrated *
8.458	1897	VB	0.046		18.969	* uncalibrated *
9.262	4665	VV	0.042		46.652	* uncalibrated *
9.552	14161	VV	0.035		141.607	* uncalibrated *
9.690	29684	VV	0.031		296.844	* uncalibrated *
9.885	5004	VV	0.037		50.036	* uncalibrated *
10.008	10327	VV	0.032		103.275	* uncalibrated *
11.055	1037	BV	0.052		10.370	* uncalibrated *
11.302	3169	VV	0.040		31.692	* uncalibrated *
11.686	2006	VV	0.071		20.065	* uncalibrated *
12.008	1448	VV	0.071		14.484	* uncalibrated *

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\vp071405\008F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 8
ample Name	: V 1000	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 11:21 AM	Instrument Method	: GAS1.MTH
eport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

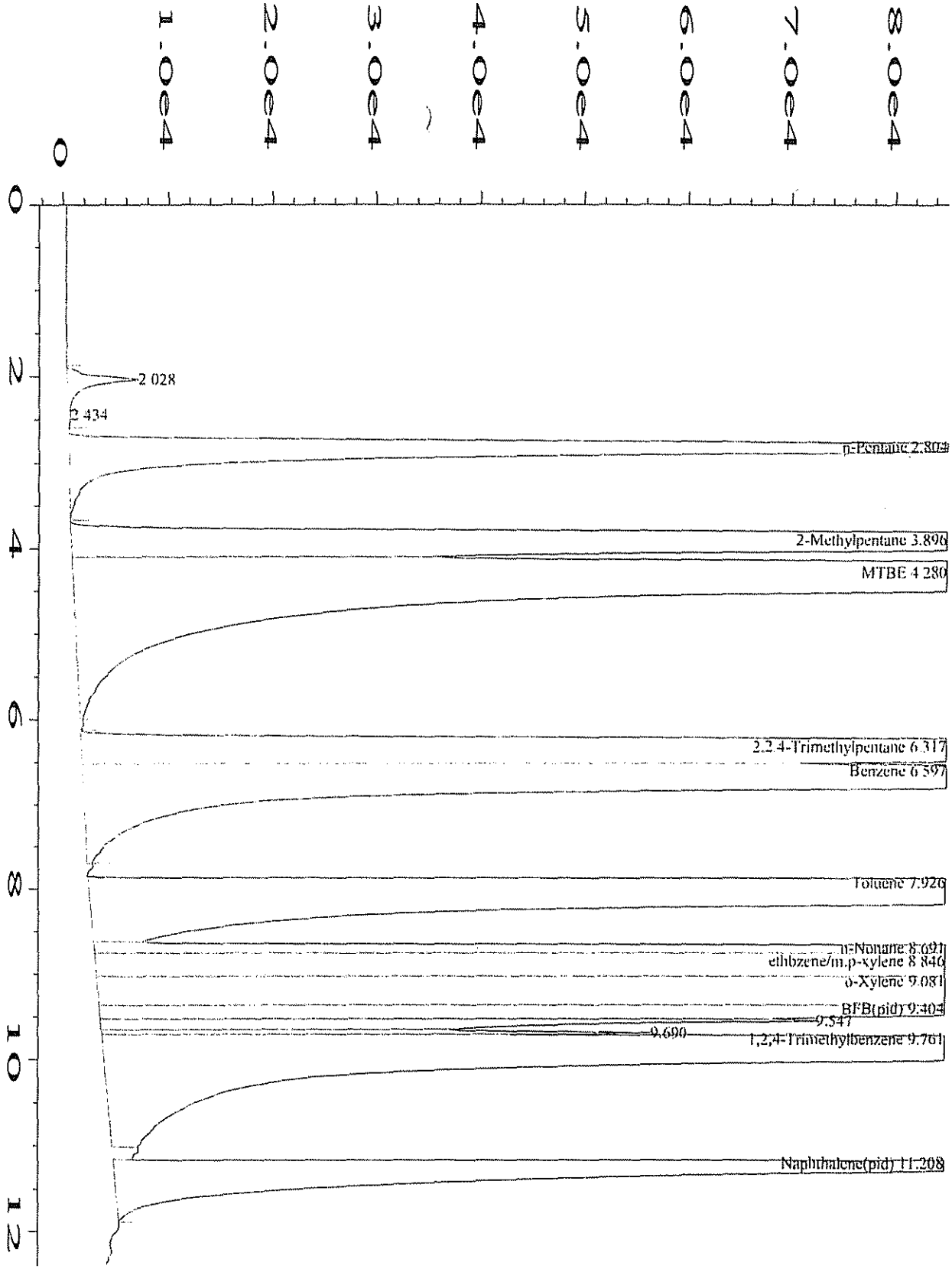
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\008R0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 1000
un Time Bar Code:
cquired on : 14 Jul 05 11:21 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\008R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.804	1337647	BV	0.137	1	213.305	n-Pentane
3.896	3236774	PV	0.151	1	342.760	2-Methylpentane
4.280	1.35276E+007	VV	0.173	1	448.783	MTBE
6.317	6150148	VV	0.133	1	404.200	2,2,4-Trimethylpentane
6.597	1.2296E+007	VV	0.083	1	154.545	Benzene
7.926	2.05001E+007	PV	0.056	1	502.405	Toluene
8.691	2706572	VV	0.046	1	398.772	n-Nonane
8.846	2.68764E+007	VV	0.053	1	794.568	ethbzene/m,p-xylene
9.081	1.4125E+007	VV	0.054	1	364.671	o-Xylene
9.404	1283136	VV	0.065	1	86.361	BFB(pid)
9.761	1.07256E+007	VV	0.044	1	349.341	1,2,4-Trimethylbenzene
11.208	5037357	VV	0.057	1	287.801	Naphthalene(pid)
2.028	49839	BV	0.098		498.389	* uncalibrated *
2.434	1338	VB	0.119		13.384	* uncalibrated *
9.547	368835	VV	0.089		3688.351	* uncalibrated *
9.690	144281	VV	0.039		1442.812	* uncalibrated *



ta File Name	: C:\HPCHEM\1\DATA\vp071405\008R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 8
ple Name	: V 1000	Injection Number	: 1
Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 11:21 AM	Instrument Method	: GAS1.MTH
ort Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
t Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
tiplier	: 1	ISTD Amount	:

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/14/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	10.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	21.9	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.5	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/14/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	-1.5
C_9-C_{12} Aliphatics	500	50	-6.2
C_9-C_{10} Aromatics	500	50	-8.6

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

External Standard Report

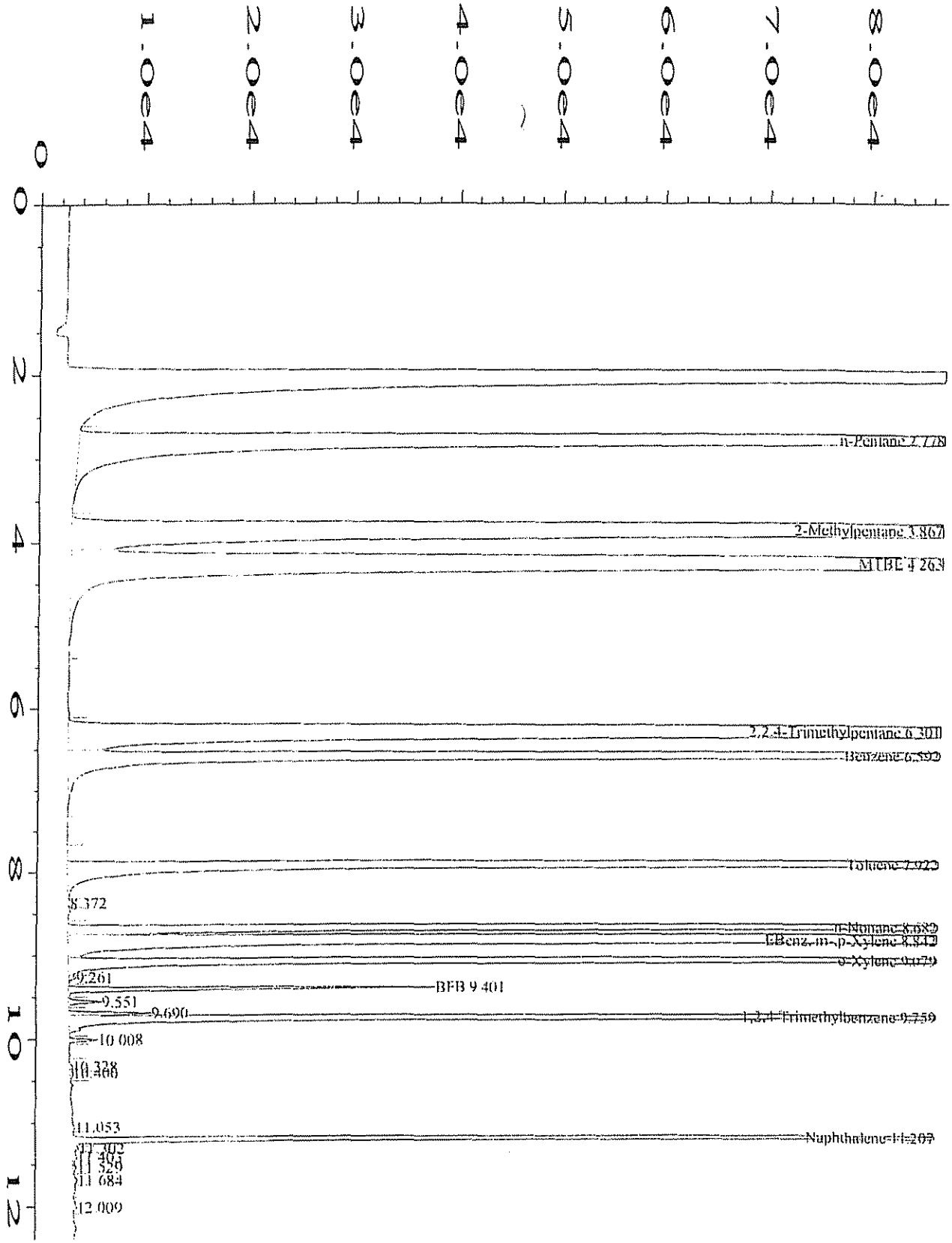
:a File Name : C:\HPCHEM\1\DATA\vp071405\005F0101.D
:rator : DCS
:trument : FID/PID
ıple Name : V 500
ı Time Bar Code:
quired on : 14 Jul 05 10:05 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
.tiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ı. 1 in C:\HPCHEM\1\DATA\vp071405\005F0101.D

. Time	Area	Type	Width	Ref#	ug/L	Name
2.778	1742970	BV	0.094	1	4265.646	n-Pentane
3.867	2181370	PV	0.119	1	3248.649	2-Methylpentane
4.263	1736534	VB	0.137	1	51020.45	MTBE
6.301	1977652	VV	0.104	1	4892.879	2,2,4-Trimethylpentane
6.592	1408771	VB	0.057	1	1352.853	Benzene
7.922	3903076	BV	0.038	1	4578.974	Toluene
8.682	1826421	BV	0.036	1	2874.951	n-Nonane
8.842	6104778	VV	0.037	1	7836.609	EBenz, m-,p-Xylene
9.079	2396482	VV	0.033	1	3095.254	o-Xylene
9.401	66026	VV	0.030	1	254.328	BFB
9.759	2056422	VV	0.031	1	2943.913	1,2,4-Trimethylbenzene
.1.207	774715	VV	0.026	1	-6752.609	Naphthalene
8.372	1147	VV	0.077		11.466	* uncalibrated *
9.261	2099	VV	0.041		20.990	* uncalibrated *
9.551	7152	VV	0.035		71.523	* uncalibrated *
9.690	14866	PV	0.030		148.660	* uncalibrated *
.0.008	5222	PV	0.031		52.219	* uncalibrated *
.0.328	1278	BV	0.068		12.776	* uncalibrated *
.0.400	1644	VV	0.076		16.440	* uncalibrated *
.1.053	2238	VV	0.072		22.384	* uncalibrated *
.1.302	1855	VV	0.037		18.548	* uncalibrated *
.1.403	3419	VV	0.093		34.188	* uncalibrated *
.1.529	2004	VV	0.064		20.038	* uncalibrated *
.1.684	2784	VV	0.076		27.841	* uncalibrated *
.2.009	2112	VV	0.074		21.116	* uncalibrated *

.ibration table contains at least one peak with amt = 0



ta File Name	: C:\HPCHEM\1\DATA\vp071405\005F0101.D		
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strument	: FID/PID	Vial Number	: 5
mple Name	: V 500	Injection Number	: 1
n Time Bar Code	:	Sequence Line	: 1
quired on	: 14 Jul 05 10:05 AM	Instrument Method	: GAS1.MTH
port Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

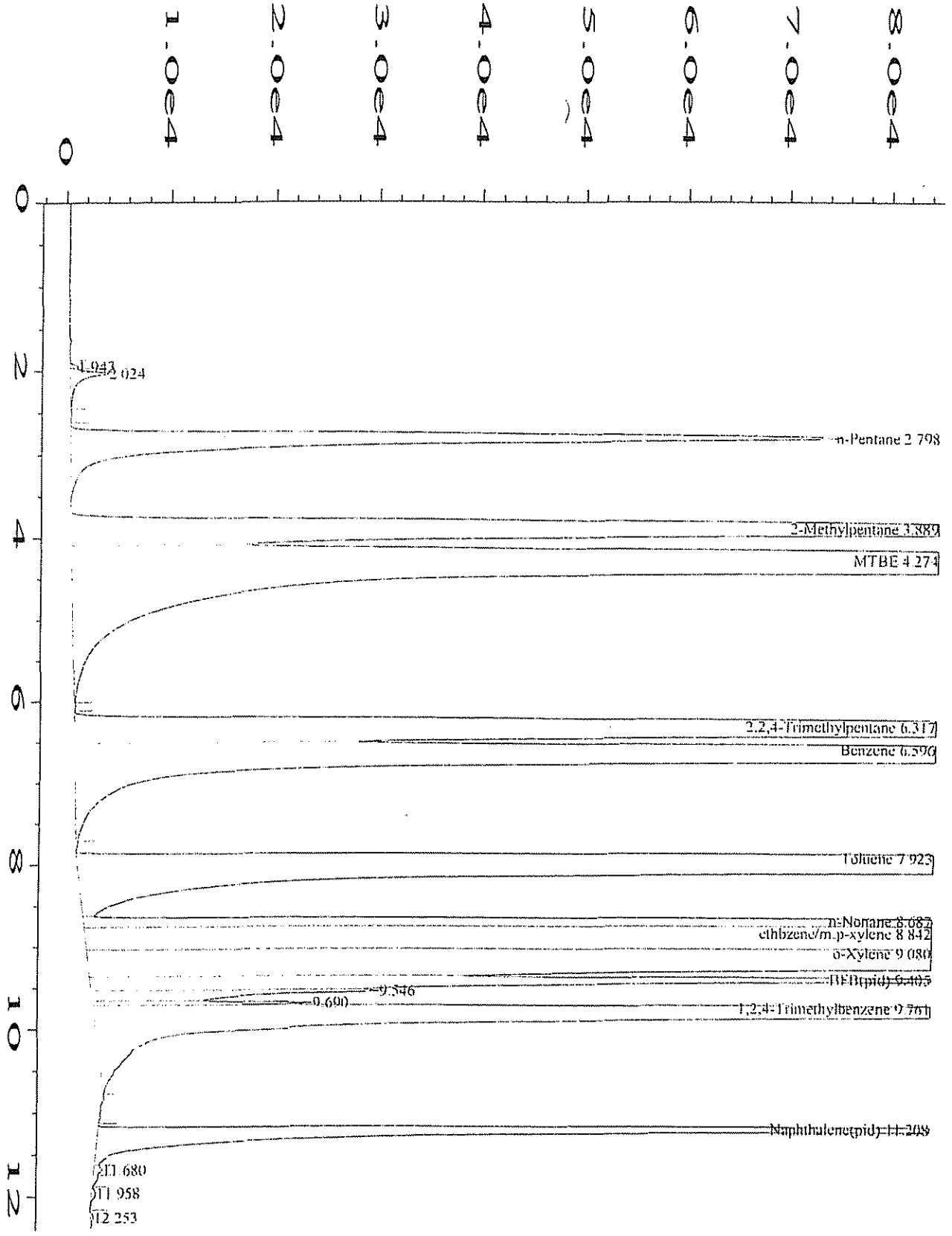
External Standard Report

:a File Name : C:\HPCHEM\1\DATA\vp071405\005R0101.D
erator : DCS
strument : FID/PID
mple Name : V 500
1 Time Bar Code:
quired on : 14 Jul 05 10:05 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

g. 2 in C:\HPCHEM\1\DATA\vp071405\005R0101.D

: Time	Area	Type	Width	Ref#	ug/L	Name
2.798	665272	BV	0.127	1	106.086	n-Pentane
3.889	1610206	PV	0.145	1	170.513	2-Methylpentane
4.274	6890871	VV	0.166	1	228.607	MTBE
6.317	2946490	VV	0.131	1	193.649	2,2,4-Trimethylpentane
6.596	6903642	VV	0.081	1	86.770	Benzene
7.923	1.17723E+007	PV	0.054	1	288.510	Toluene
8.687	1339610	VV	0.048	1	197.371	n-Nonane
8.842	1.61892E+007	VV	0.052	1	478.613	ethbzene/m,p-xylene
9.080	7706672	VV	0.051	1	198.967	o-Xylene
9.405	731569	VV	0.053	1	49.238	BFB(pid)
9.761	5207830	VV	0.039	1	169.623	1,2,4-Trimethylbenzene
11.208	2227832	PV	0.031	1	127.284	Naphthalene(pid)
1.943	2003	BV	0.040		20.035	* uncalibrated *
2.024	23244	VB	0.084		232.435	* uncalibrated *
9.546	133527	VV	0.079		1335.268	* uncalibrated *
9.690	55487	VV	0.038		554.872	* uncalibrated *
11.680	4387	VV	0.078		43.866	* uncalibrated *
11.958	3333	VV	0.106		33.335	* uncalibrated *
12.253	1461	PV	0.068		14.609	* uncalibrated *



a File Name	: C:\HPCHEM\1\DATA\vp071405\005R0101.D		
rator	: DCS	Page Number	: 1
trument	: FID/PID	Vial Number	: 5
ple Name	: V 500	Injection Number	: 1
Time Bar Code:		Sequence Line	: 1
uired on	: 14 Jul 05 10:05 AM	Instrument Method	: GAS1.MTH
ort Created on	: 07 Sep 05 02:35 PM	Analysis Method	: vph_pid.MTH
Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
tiplier	: 1	ISTD Amount	:

VPH QC, Blanks Raw Data

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp071405\013F0101.D
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strument : FID/PID
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n Time Bar Code:
quired on : 14 Jul 05 01:27 PM
port Created on: 15 Jul 05 08:01 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

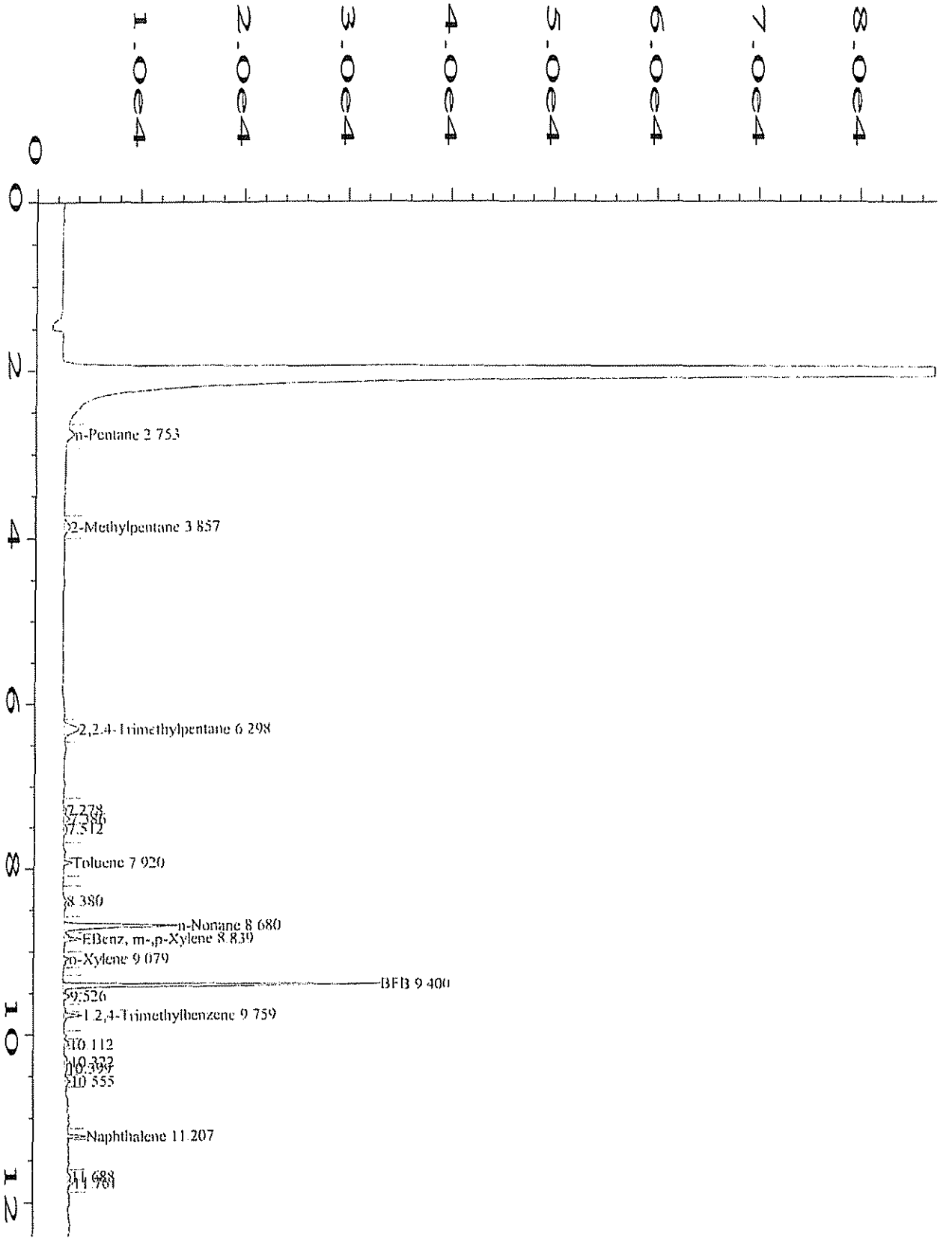
Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\013F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.753	3120	BB	0.079	1	3.112	n-Pentane
3.857	4266	BV	0.106	1	0.758	2-Methylpentane
4.282	* not found *			1		MTBE
6.298	9048	VV	0.099	1	1.738	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.920	2105	BB	0.042	1	0.223	Toluene
8.680	30390	BV	0.042	1	7.625	n-Nonane
8.839	5351	VB	0.044	1	0.523	EBenz, m-,p-Xylene
9.079	1944	BV	0.048	1	0.193	o-Xylene
9.400	55892	BV	0.029	1	215.295	BFB
9.759	4597	VB	0.038	1	0.489	1,2,4-Trimethylbenzene
11.207	2775	PV	0.027	1	0.655	Naphthalene
7.278	1258	BV	0.060		12.579	* uncalibrated *
7.386	3128	VV	0.075		31.280	* uncalibrated *
7.512	2494	VB	0.090		24.941	* uncalibrated *
8.380	1244	BV	0.055		12.438	* uncalibrated *
9.526	1924	VB	0.046		19.243	* uncalibrated *
10.112	1917	VV	0.052		19.168	* uncalibrated *
10.322	2447	VV	0.059		24.474	* uncalibrated *
10.399	1162	VV	0.062		11.620	* uncalibrated *
10.555	2130	VV	0.056		21.298	* uncalibrated *
11.688	1280	PV	0.063		12.803	* uncalibrated *
11.761	1535	VV	0.048		15.346	* uncalibrated *

libration table contains at least one peak with amt = 0

t all calibrated peaks were found



ta File Name	: C:\HPCHEM\1\DATA\vp071405\013F0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 13
mple Name	: vblk4071405a	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 01:27 PM	Instrument Method	: GAS1.MTH
port Created on	: 15 Jul 05 08:01 AM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

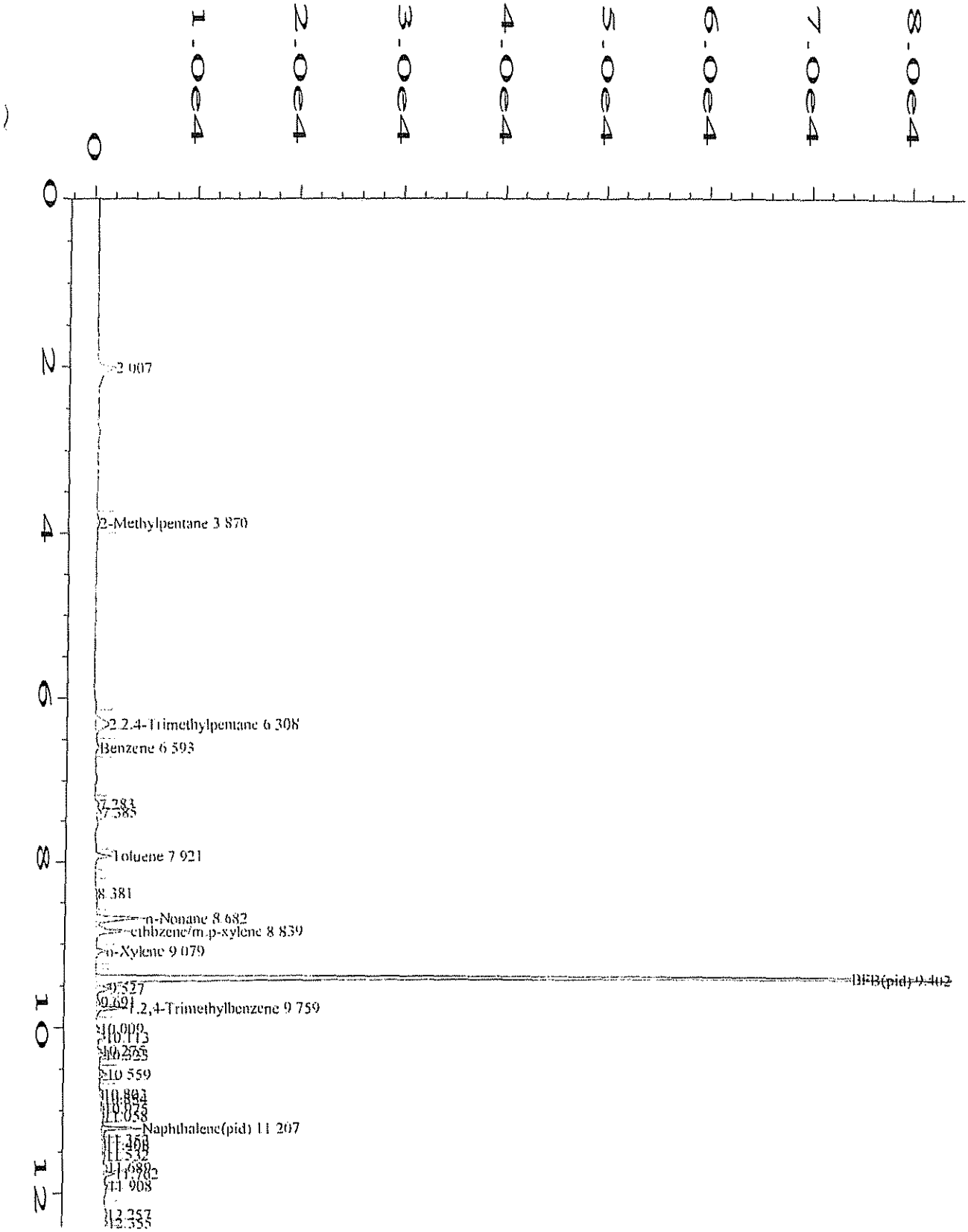
:ta File Name : C:\HPCHEM\1\DATA\vp071405\013R0101.D
)erator : DCS
ıstrument : FID/PID
ımple Name : vblk4071405a
ın Time Bar Code:
:quired on : 14 Jul 05 01:27 PM
:port Created on: 15 Jul 05 08:01 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

.g. 2 in C:\HPCHEM\1\DATA\vp071405\013R0101.D

:t Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.870	2094	BV	0.100	1	0.222	2-Methylpentane
4.267	* not found *			1		MTBE
6.308	9141	BV	0.096	1	0.601	2,2,4-Trimethylpentane
6.593	1657	VB	0.083	1	0.0208	Benzene
7.921	5173	VB	0.047	1	0.127	Toluene
8.682	14405	BV	0.045	1	2.122	n-Nonane
8.839	10490	VV	0.044	1	0.310	ethbzene/m,p-xylene
9.079	2991	VB	0.044	1	0.0772	o-Xylene
9.402	254314	BV	0.032	1	17.117	BFB(pid)
9.759	7347	VV	0.037	1	0.239	1,2,4-Trimethylbenzene
11.207	8744	VV	0.033	1	0.500	Naphthalene(pid)
2.007	11233	BB	0.087		112.328	* uncalibrated *
7.283	1263	BV	0.063		12.626	* uncalibrated *
7.385	2130	VV	0.072		21.301	* uncalibrated *
8.381	296	BV	0.034		2.958	* uncalibrated *
9.527	4816	VV	0.060		48.164	* uncalibrated *
9.691	1305	VV	0.046		13.051	* uncalibrated *
10.009	507	PV	0.031		5.071	* uncalibrated *
10.113	2770	VV	0.049		27.697	* uncalibrated *
10.275	687	PV	0.041		6.866	* uncalibrated *
10.323	1104	VV	0.031		11.042	* uncalibrated *
10.559	2502	BV	0.055		25.019	* uncalibrated *
10.803	1504	PV	0.075		15.037	* uncalibrated *
10.854	883	VV	0.039		8.833	* uncalibrated *
10.975	1438	VV	0.064		14.384	* uncalibrated *
11.058	1308	VV	0.067		13.081	* uncalibrated *
11.352	889	VV	0.047		8.891	* uncalibrated *
11.408	1909	VV	0.106		19.092	* uncalibrated *
11.532	1010	VV	0.061		10.102	* uncalibrated *
11.689	1758	VV	0.067		17.577	* uncalibrated *
11.762	2885	VV	0.038		28.850	* uncalibrated *
11.908	586	PV	0.038		5.862	* uncalibrated *
12.257	1273	BV	0.078		12.731	* uncalibrated *
12.355	567	VBA	0.036		5.665	* uncalibrated *

ɔt all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp071405\013R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: vblk4071405a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 14 Jul 05 01:27 PM	Instrument Method	: GAS1.MTH
Report Created on	: 15 Jul 05 08:01 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\vp071405\012F0101.D
erator : DCS
strument : FID/PID
mple Name : lcs4071405a
n Time Bar Code:
quired on : 14 Jul 05 01:02 PM
port Created on: 14 Jul 05 01:16 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp071405\012F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.767	50681	BV	0.087	1	50.552	n-Pentane
3.855	66633	BV	0.129	1	11.835	2-Methylpentane
4.198	66617	VV	0.179	1	156.161	MTBE
6.296	62780	VV	0.113	1	12.059	2,2,4-Trimethylpentane
6.587	65503	VV	0.086	1	8.302	Benzene
7.919	213118	VV	0.039	1	22.623	Toluene
8.679	52529	VV	0.048	1	13.180	n-Nonane
8.838	206021	VV	0.041	1	20.140	EBenz, m-,p-Xylene
9.077	67867	VV	0.036	1	6.738	o-Xylene
9.400	57350	PV	0.030	1	220.912	BFB
9.757	85975	VV	0.033	1	9.150	1,2,4-Trimethylbenzene
11.207	9937	VV	0.045	1	2.345	Naphthalene
2.993	19227	PV	0.071		192.272	* uncalibrated *
3.188	36754	VV	0.116		367.543	* uncalibrated *
4.513	33318	VV	0.112		333.183	* uncalibrated *
4.834	24601	VV	0.177		246.006	* uncalibrated *
5.080	13250	VV	0.118		132.501	* uncalibrated *
5.205	12542	VV	0.111		125.420	* uncalibrated *
5.461	23536	VV	0.108		235.361	* uncalibrated *
5.778	1822	PV	0.092		18.223	* uncalibrated *
5.947	19256	VV	0.086		192.556	* uncalibrated *
6.073	46881	VV	0.140		468.810	* uncalibrated *
6.726	9629	VV	0.074		96.293	* uncalibrated *
6.816	7828	VV	0.066		78.284	* uncalibrated *
6.974	17791	VV	0.108		177.905	* uncalibrated *
7.110	11975	VV	0.073		119.746	* uncalibrated *
7.275	23626	VV	0.074		236.261	* uncalibrated *
7.382	37109	VV	0.076		371.094	* uncalibrated *
7.518	23689	VV	0.091		236.888	* uncalibrated *
7.789	14840	VV	0.067		148.397	* uncalibrated *
8.052	9254	VV	0.106		92.539	* uncalibrated *
8.375	12158	VV	0.069		121.578	* uncalibrated *
8.456	5781	VV	0.048		57.806	* uncalibrated *
9.199	1529	VV	0.039		15.286	* uncalibrated *
9.261	5034	VV	0.037		50.335	* uncalibrated *
9.524	102902	VV	0.046		1029.018	* uncalibrated *
9.688	18014	VV	0.034		180.141	* uncalibrated *
9.889	2487	VV	0.043		24.867	* uncalibrated *
0.007	17222	PV	0.033		172.218	* uncalibrated *
0.110	31607	VV	0.052		316.065	* uncalibrated *
0.179	11814	VV	0.044		118.138	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp071405\012F0101.D
erator : DCS
strument : FID/PID
mple Name : lcs4071405a
n Time Bar Code:
quired on : 14 Jul 05 01:02 PM
port Created on: 14 Jul 05 01:16 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 12
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.270	12677	VV	0.040	126.768	* uncalibrated *
10.320	13907	VV	0.036	139.065	* uncalibrated *
10.396	3642	VV	0.037	36.419	* uncalibrated *
10.444	2948	VV	0.035	29.485	* uncalibrated *
10.515	8531	VV	0.036	85.309	* uncalibrated *
10.557	14265	VV	0.039	142.652	* uncalibrated *
10.642	2302	VV	0.038	23.017	* uncalibrated *
10.703	1999	VV	0.043	19.987	* uncalibrated *
10.760	6782	VV	0.038	67.820	* uncalibrated *
10.796	4357	VV	0.033	43.569	* uncalibrated *
10.852	6402	VV	0.038	64.024	* uncalibrated *
10.972	6697	VV	0.063	66.968	* uncalibrated *
11.053	5067	VV	0.077	50.667	* uncalibrated *
11.350	1829	VV	0.037	18.287	* uncalibrated *
11.480	3009	VV	0.075	30.085	* uncalibrated *
11.692	1818	VV	0.065	18.184	* uncalibrated *
11.761	2842	VV	0.044	28.417	* uncalibrated *

alibration table contains at least one peak with amt = 0

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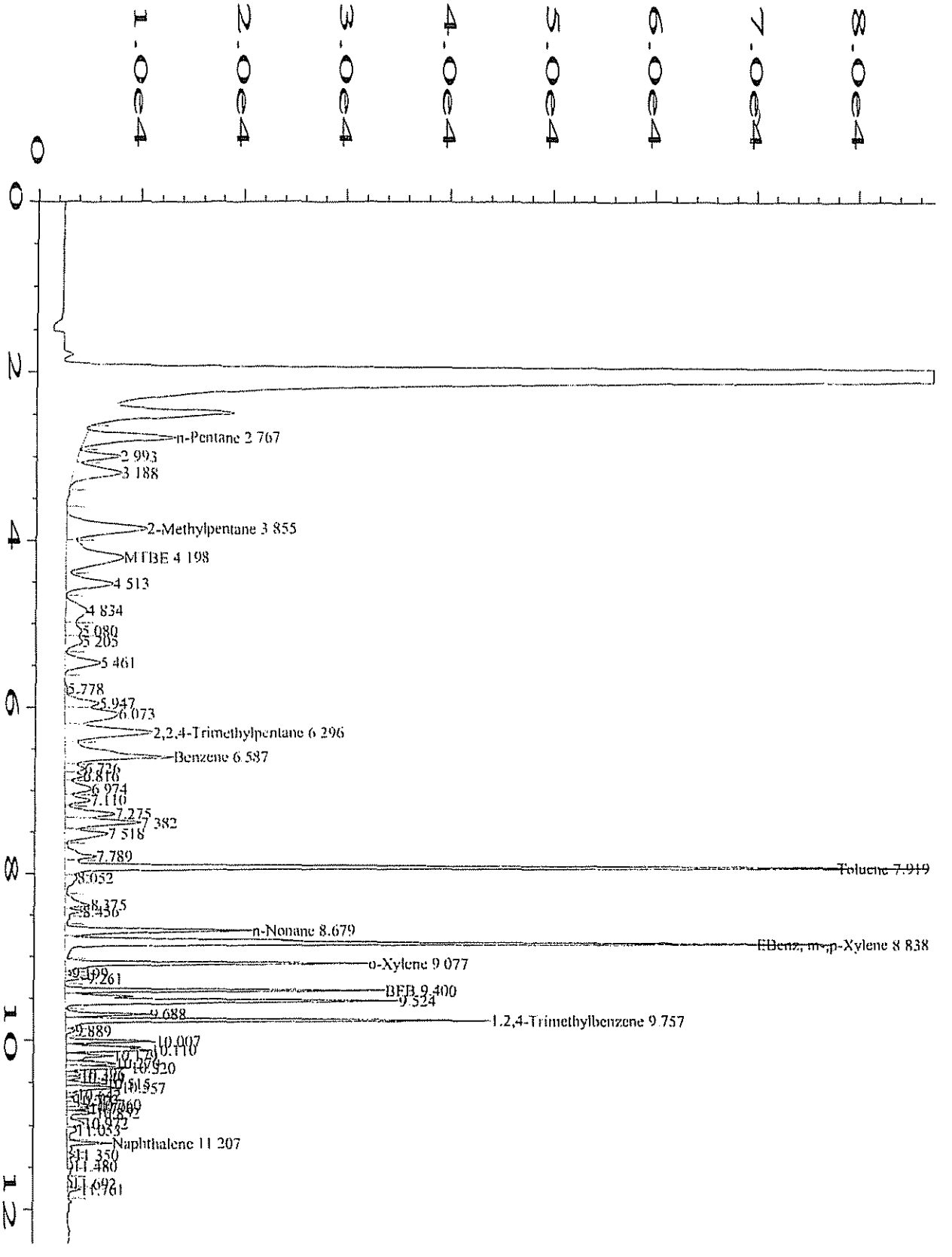

ta File Name	: C:\HPCHEM\1\DATA\vp071405\012F0101.D		
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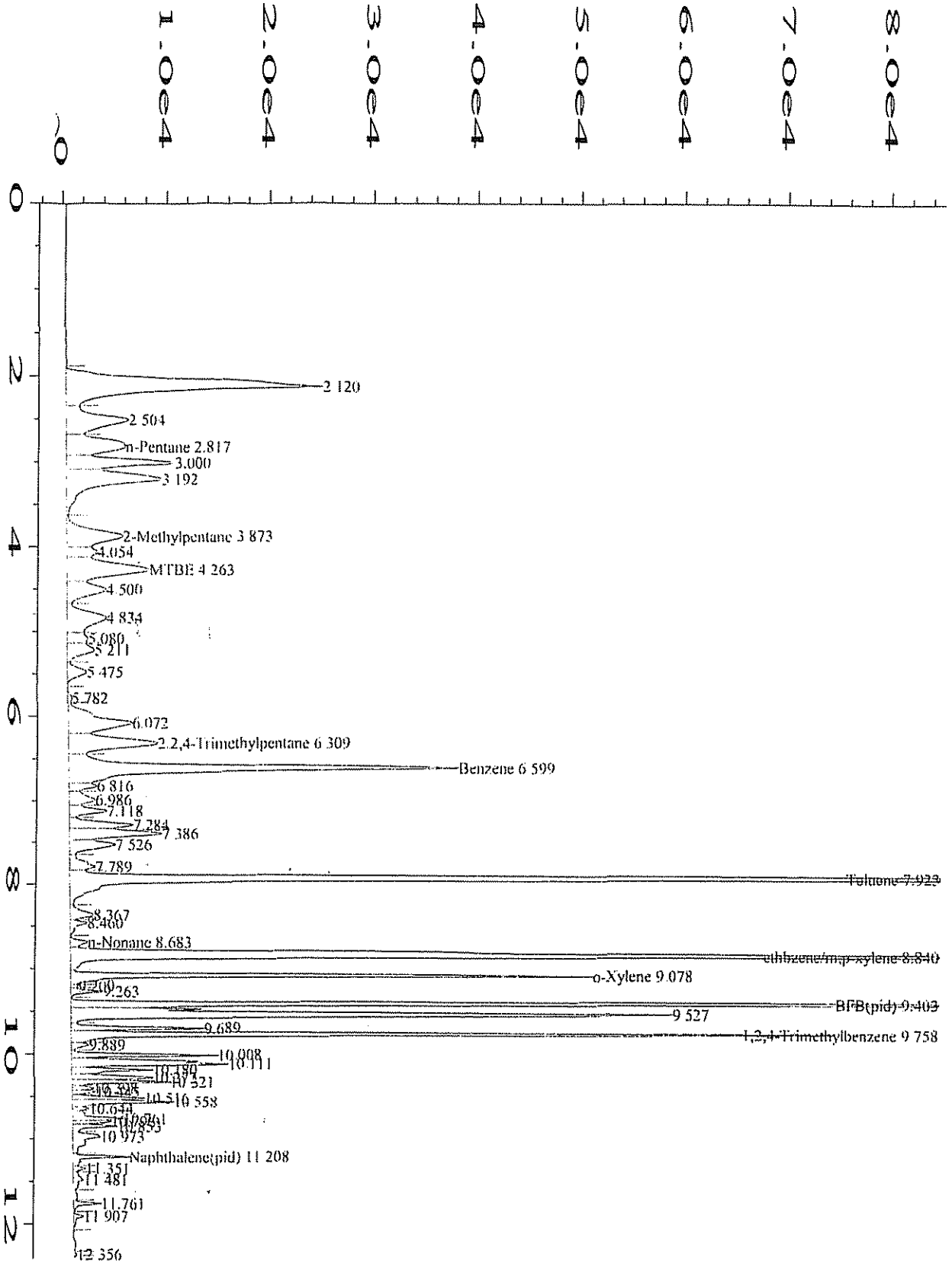
strument	: FID/PID	Vial Number	: 12
mple Name	: lcs4071405a	Injection Number	: 1
n Time Bar Code	:	Sequence Line	: 1
quired on	: 14 Jul 05 01:02 PM	Instrument Method	: GAS1.MTH
port Created on	: 14 Jul 05 01:16 PM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:



ta File Name	: C:\HPCHEM\1\DATA\vp071405\024R0101.D		
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strument	: FID/PID	Vial Number	: 24
mple Name	: g204-469-1e msd	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 06:05 PM	Instrument Method	: GAS1.MTH
port Created on	: 15 Jul 05 08:02 AM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\023F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g204-469-1e ms
un Time Bar Code:
cquired on : 14 Jul 05 05:39 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

499
469

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et Time	Area	Type	Width	Ref#	ug/L	Name
2.765	42854	BV	0.085	1	42.744	n-Pentane
3.860	65421	BV	0.121	1	11.620	2-Methylpentane
4.198	64669	VV	0.152	1	151.594	MTBE
6.300	56414	VV	0.113	1	10.836	2,2,4-Trimethylpentane
6.590	68647	VV	0.087	1	8.700	Benzene
7.921	221629	VV	0.040	1	23.526	Toluene
8.680	10434	VV	0.047	1	2.618	n-Nonane
8.839	216837	VV	0.061	1	21.197	EBenz, m-,p-Xylene
9.078	72534	VV	0.036	1	7.201	o-Xylene
9.401	63288	PV	0.031	1	243.783	BFB
9.758	94115	VV	0.033	1	10.017	1,2,4-Trimethylbenzene
11.208	6676	VV	0.048	1	1.575	Naphthalene
2.993	16079	PV	0.067		160.787	* uncalibrated *
3.192	25582	VV	0.093		255.816	* uncalibrated *
4.518	35670	VV	0.108		356.697	* uncalibrated *
4.837	25219	PV	0.168		252.190	* uncalibrated *
5.085	14549	VV	0.118		145.487	* uncalibrated *
5.209	12264	VV	0.107		122.645	* uncalibrated *
5.465	24153	VV	0.107		241.534	* uncalibrated *
5.783	1978	PV	0.103		19.777	* uncalibrated *
5.950	20926	VV	0.086		209.260	* uncalibrated *
6.075	51488	VV	0.142		514.881	* uncalibrated *
6.730	9740	VV	0.072		97.401	* uncalibrated *
6.819	8136	VV	0.065		81.364	* uncalibrated *
6.976	18502	VV	0.106		185.022	* uncalibrated *
7.112	13021	VV	0.073		130.212	* uncalibrated *
7.278	24397	VV	0.074		243.968	* uncalibrated *
7.385	38432	VV	0.076		384.324	* uncalibrated *
7.520	23747	VV	0.080		237.470	* uncalibrated *
7.791	15727	VV	0.065		157.274	* uncalibrated *
8.056	8602	VV	0.096		86.025	* uncalibrated *
8.376	12421	VV	0.067		124.215	* uncalibrated *
8.458	5469	VV	0.045		54.692	* uncalibrated *
9.200	1966	VV	0.042		19.657	* uncalibrated *
9.262	5330	VV	0.037		53.298	* uncalibrated *
9.525	114780	VV	0.046		1147.797	* uncalibrated *
9.689	19712	VV	0.034		197.116	* uncalibrated *
9.890	3201	VV	0.045		32.012	* uncalibrated *
10.008	19899	VV	0.032		198.992	* uncalibrated *
10.112	35258	VV	0.064		352.580	* uncalibrated *
10.180	13187	VV	0.044		131.869	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp071405\023F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g204-469-1e ms
un Time Bar Code:
cquired on : 14 Jul 05 05:39 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.271	14079	VV	0.040	140.789	* uncalibrated *
10.321	14765	VV	0.033	147.646	* uncalibrated *
10.398	3739	VV	0.037	37.388	* uncalibrated *
10.446	3381	VV	0.035	33.810	* uncalibrated *
10.516	9237	VV	0.036	92.372	* uncalibrated *
10.558	14986	VV	0.038	149.858	* uncalibrated *
10.643	2338	VV	0.037	23.378	* uncalibrated *
10.761	9591	VV	0.049	95.915	* uncalibrated *
10.797	4650	VV	0.033	46.504	* uncalibrated *
10.853	6833	VV	0.038	68.326	* uncalibrated *
10.973	6826	VV	0.063	68.258	* uncalibrated *
11.059	4989	VV	0.089	49.893	* uncalibrated *
11.351	1832	VV	0.038	18.316	* uncalibrated *
11.481	2714	VV	0.071	27.141	* uncalibrated *
11.762	2088	VV	0.043	20.879	* uncalibrated *

alibration table contains at least one peak with amt = 0

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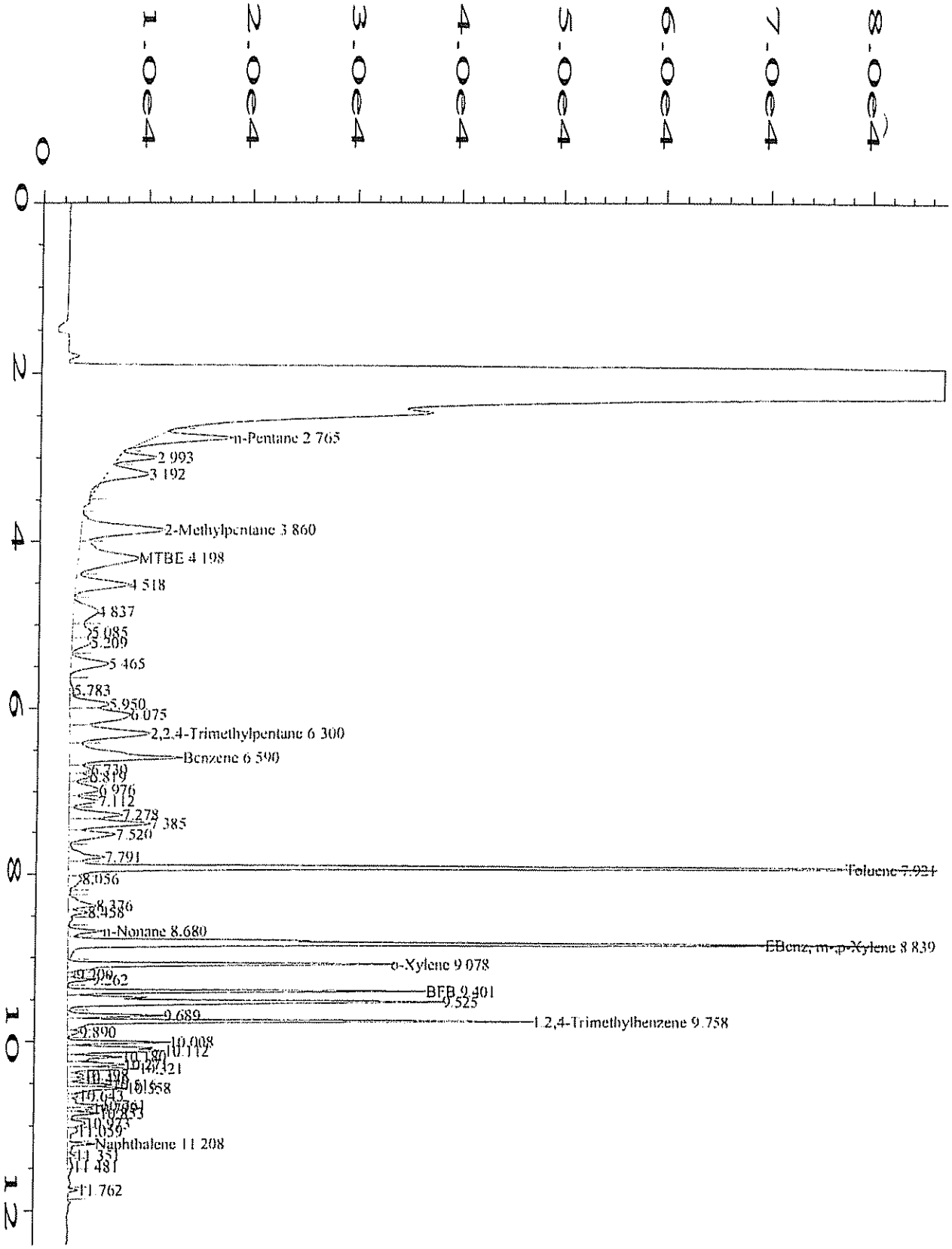


ta File Name	: C:\HPCHEM\1\DATA\vp071405\023F0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 23
mple Name	: g204-469-1e ms	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 05:39 PM	Instrument Method:	GAS1.MTH
port Created on:	15 Jul 05 08:02 AM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\023R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g204-469-1e ms
in Time Bar Code:
cquired on : 14 Jul 05 05:39 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

.g. 2 in C:\HPCHEM\1\DATA\vp071405\023R0101.D

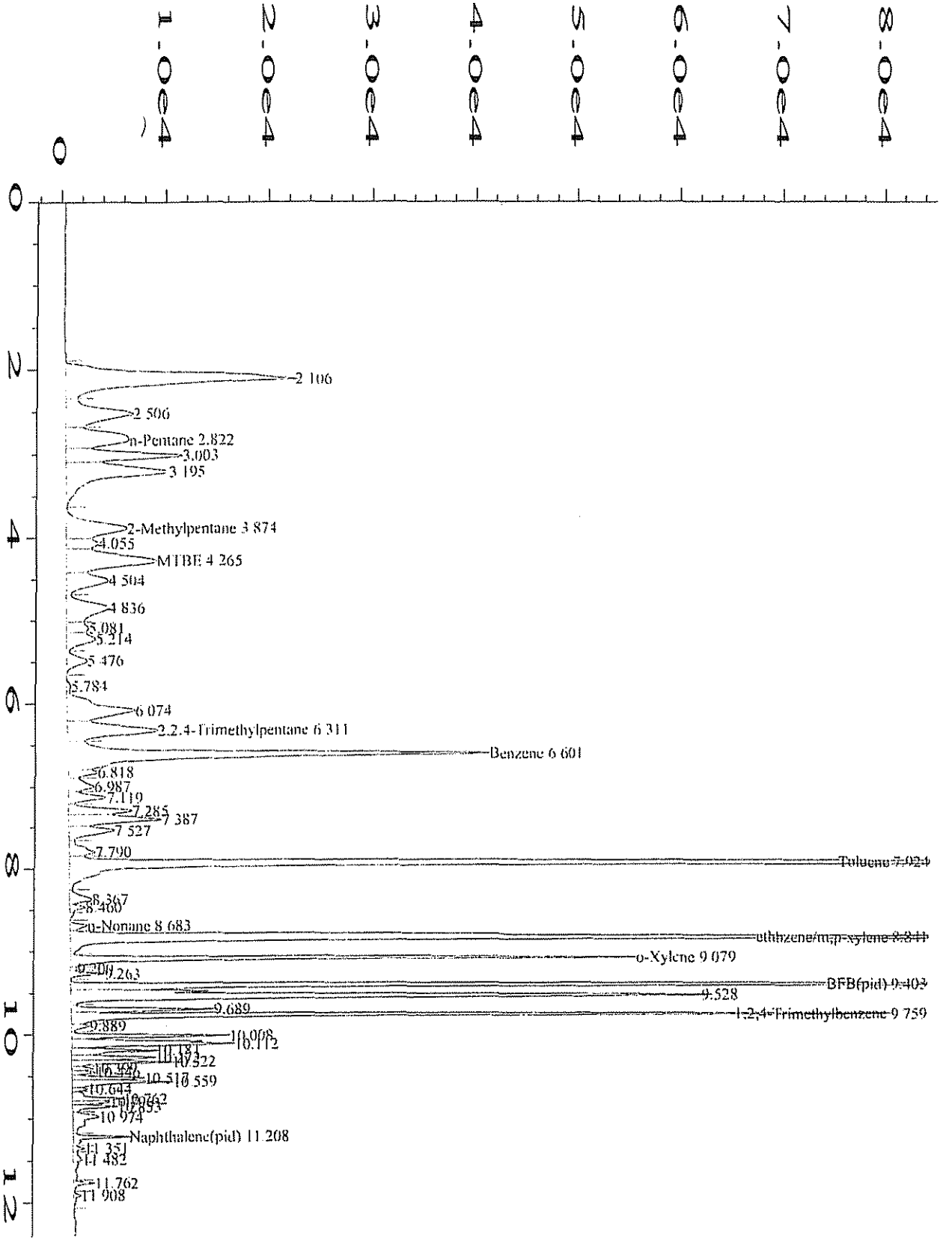
et Time	Area	Type	Width	Ref#	ug/L	Name
2.822	66252	VV	0.148	1	10.565	n-Pentane
3.874	61336	VV	0.156	1	6.495	2-Methylpentane
4.265	92638	VV	0.161	1	3.073	MTBE
6.311	73436	VV	0.129	1	4.826	2,2,4-Trimethylpentane
6.601	224283	VV	0.080	1	2.819	Benzene
7.924	576169	VV	0.045	1	14.120	Toluene
8.683	6259	VV	0.054	1	0.922	n-Nonane
8.841	465977	VV	0.042	1	13.776	ethbzene/m,p-xylene
9.079	129427	VV	0.051	1	3.341	o-Xylene
9.403	287145	VV	0.032	1	19.326	BFB(pid)
9.759	173838	VV	0.036	1	5.662	1,2,4-Trimethylbenzene
11.208	13547	VV	0.046	1	0.774	Naphthalene(pid)
2.106	203273	BV	0.111		2032.731	* uncalibrated *
2.506	68804	VV	0.142		688.044	* uncalibrated *
3.003	66865	VV	0.091		668.654	* uncalibrated *
3.195	102704	VV	0.155		1027.042	* uncalibrated *
4.055	20234	VV	0.093		202.339	* uncalibrated *
4.504	37982	VV	0.143		379.822	* uncalibrated *
4.836	48124	VV	0.176		481.242	* uncalibrated *
5.081	14708	VV	0.097		147.079	* uncalibrated *
5.214	23184	VV	0.122		231.841	* uncalibrated *
5.476	14907	VV	0.115		149.074	* uncalibrated *
5.784	2474	PV	0.091		24.739	* uncalibrated *
6.074	66451	VV	0.139		664.513	* uncalibrated *
6.818	12618	VV	0.066		126.184	* uncalibrated *
6.987	17268	VV	0.096		172.679	* uncalibrated *
7.119	18477	VV	0.075		184.765	* uncalibrated *
7.285	28929	VV	0.071		289.289	* uncalibrated *
7.387	50104	VV	0.084		501.041	* uncalibrated *
7.527	26024	VV	0.094		260.235	* uncalibrated *
7.790	15837	VV	0.085		158.373	* uncalibrated *
8.367	12135	VV	0.086		121.353	* uncalibrated *
8.460	5138	VV	0.050		51.376	* uncalibrated *
9.200	1423	VV	0.036		14.231	* uncalibrated *
9.263	8172	VV	0.038		81.723	* uncalibrated *
9.528	221374	VV	0.057		2213.741	* uncalibrated *
9.689	30560	VV	0.035		305.598	* uncalibrated *
9.889	5575	VV	0.047		55.750	* uncalibrated *
10.008	31836	VV	0.033		318.356	* uncalibrated *
10.112	58946	VV	0.051		589.462	* uncalibrated *
10.181	21628	VV	0.044		216.276	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp071405\023R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g204-469-1e ms
un Time Bar Code:
cquired on : 14 Jul 05 05:39 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.272	21651	VV	0.044	216.507	* uncalibrated *
10.322	21711	VV	0.033	217.112	* uncalibrated *
10.399	5068	VV	0.041	50.676	* uncalibrated *
10.446	5178	VV	0.037	51.782	* uncalibrated *
10.517	14966	VV	0.035	149.660	* uncalibrated *
10.559	26005	VV	0.057	260.047	* uncalibrated *
10.644	3371	VV	0.038	33.711	* uncalibrated *
10.762	14754	VV	0.049	147.535	* uncalibrated *
10.796	7146	VV	0.033	71.458	* uncalibrated *
10.853	10357	VV	0.039	103.568	* uncalibrated *
10.974	17080	VV	0.095	170.799	* uncalibrated *
11.351	3053	VV	0.040	30.529	* uncalibrated *
11.482	4502	VV	0.065	45.023	* uncalibrated *
11.762	4994	VV	0.048	49.938	* uncalibrated *
11.908	2626	VV	0.063	26.258	* uncalibrated *

==========



ta File Name	: C:\HPCHEM\1\DATA\vp071405\023R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 23
mple Name	: g204-469-1e ms	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 05:39 PM	Instrument Method:	GAS1.MTH
port Created on:	15 Jul 05 08:02 AM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\024F0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 24
mple Name	: g204-469-1e msd	Injection Number	: 1
n Time Bar Code	:	Sequence Line	: 1
quired on	: 14 Jul 05 06:05 PM	Instrument Method	: GAS1.MTH
port Created on	: 15 Jul 05 08:02 AM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

g. 1 in C:\HPCHEM\1\DATA\vp071405\024F0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.762	34395	BV	0.083	1	34.307	n-Pentane
3.856	56870	BV	0.123	1	10.101	2-Methylpentane
4.196	56746	VV	0.165	1	133.021	MTBE
6.298	55722	VV	0.112	1	10.703	2,2,4-Trimethylpentane
6.589	65037	VV	0.089	1	8.243	Benzene
7.920	206376	VV	0.040	1	21.907	Toluene
8.679	10152	VV	0.054	1	2.547	n-Nonane
8.839	199757	VV	0.061	1	19.527	EBenz, m-,p-Xylene
9.077	67401	VV	0.036	1	6.692	o-Xylene
9.400	61453	PV	0.031	1	236.717	BFB
9.758	87255	VV	0.033	1	9.287	1,2,4-Trimethylbenzene
11.208	6608	VV	0.048	1	1.559	Naphthalene
2.990	13450	PV	0.067		134.505	* uncalibrated *
3.186	25449	PV	0.104		254.493	* uncalibrated *
4.515	31918	VV	0.110		319.177	* uncalibrated *
4.833	23189	PV	0.172		231.887	* uncalibrated *
5.083	13099	VV	0.115		130.987	* uncalibrated *
5.206	11085	VV	0.107		110.848	* uncalibrated *
5.463	22038	VV	0.107		220.383	* uncalibrated *
5.782	1847	PV	0.093		18.467	* uncalibrated *
5.948	19830	VV	0.087		198.305	* uncalibrated *
6.074	48374	VV	0.141		483.740	* uncalibrated *
6.727	9267	VV	0.072		92.674	* uncalibrated *
6.817	7643	VV	0.065		76.435	* uncalibrated *
6.974	18300	VV	0.106		182.999	* uncalibrated *
7.111	12728	VV	0.073		127.277	* uncalibrated *
7.277	24142	VV	0.074		241.418	* uncalibrated *
7.384	38544	VV	0.076		385.443	* uncalibrated *
7.518	24231	VV	0.091		242.311	* uncalibrated *
7.790	15737	VV	0.065		157.367	* uncalibrated *
8.053	8784	VV	0.098		87.840	* uncalibrated *
8.376	12713	VV	0.067		127.133	* uncalibrated *
8.457	5820	VV	0.046		58.202	* uncalibrated *
9.200	2007	VV	0.042		20.068	* uncalibrated *
9.261	4984	VV	0.037		49.839	* uncalibrated *
9.525	106862	VV	0.046		1068.617	* uncalibrated *
9.688	18382	VV	0.034		183.820	* uncalibrated *
9.890	2958	VV	0.045		29.580	* uncalibrated *
0.007	18398	VV	0.033		183.976	* uncalibrated *
0.111	33809	VV	0.064		338.093	* uncalibrated *
0.180	12301	VV	0.044		123.009	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp071405\024F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : g204-469-1e msd
ın Time Bar Code:
:quired on : 14 Jul 05 06:05 PM
ɜport Created on: 15 Jul 05 08:02 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.271	13381	VV	0.040	133.806	* uncalibrated *
10.321	14415	VV	0.036	144.145	* uncalibrated *
10.397	3613	VV	0.037	36.130	* uncalibrated *
10.445	3141	VV	0.035	31.411	* uncalibrated *
10.516	9026	VV	0.036	90.263	* uncalibrated *
10.558	15033	VV	0.038	150.330	* uncalibrated *
10.643	2411	VV	0.038	24.113	* uncalibrated *
10.761	9466	VV	0.050	94.656	* uncalibrated *
10.797	4745	VV	0.033	47.451	* uncalibrated *
10.853	6796	VV	0.038	67.963	* uncalibrated *
10.972	7014	VV	0.063	70.135	* uncalibrated *
11.055	5166	VV	0.076	51.663	* uncalibrated *
11.350	1902	VV	0.037	19.023	* uncalibrated *
11.481	2778	VV	0.069	27.776	* uncalibrated *
11.761	2552	VV	0.041	25.519	* uncalibrated *

ılibration table contains at least one peak with amt = 0

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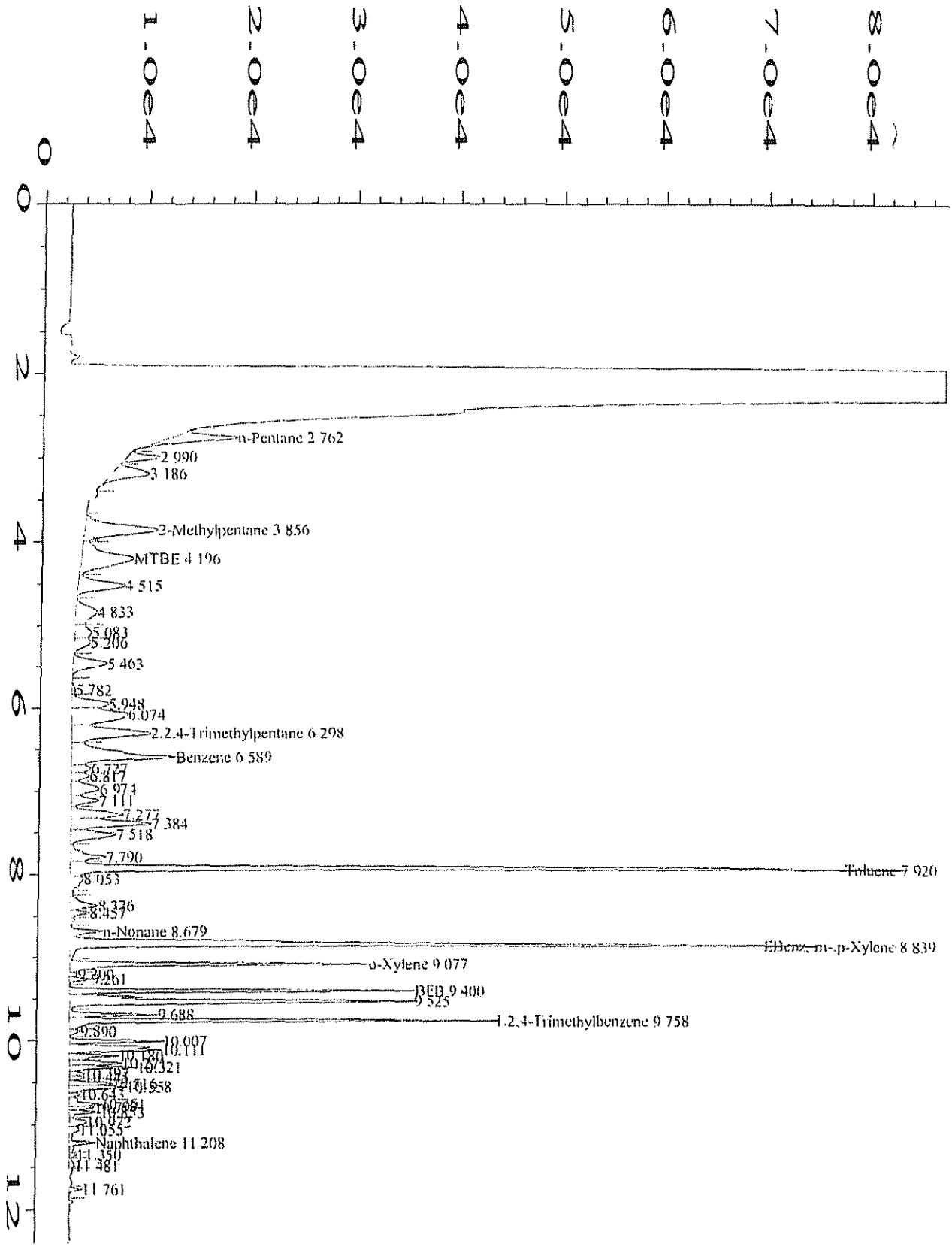

ata File Name	: C:\HPCHEM\1\DATA\vp071405\024F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 24
ample Name	: g204-469-1e msd	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 14 Jul 05 06:05 PM	Instrument Method:	GAS1.MTH
eport Created on:	15 Jul 05 08:02 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp071405\024R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g204-469-1e msd
un Time Bar Code:
cquired on : 14 Jul 05 06:05 PM
eport Created on: 15 Jul 05 08:02 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp071405\024R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.817	61916	VV	0.148	1	9.873	n-Pentane
3.873	57189	VV	0.140	1	6.056	2-Methylpentane
4.263	84980	VV	0.163	1	2.819	MTBE
6.309	72405	VV	0.128	1	4.759	2,2,4-Trimethylpentane
6.599	208073	VV	0.081	1	2.615	Benzene
7.923	531776	VV	0.045	1	13.032	Toluene
8.683	6481	VV	0.056	1	0.955	n-Nonane
8.840	427311	VV	0.042	1	12.633	ethbzene/m,p-xylene
9.078	119668	VV	0.037	1	3.090	o-Xylene
9.403	277922	VV	0.032	1	18.705	BFB(pid)
9.758	160995	VV	0.036	1	5.244	1,2,4-Trimethylbenzene
11.208	13322	VV	0.046	1	0.761	Naphthalene(pid)
2.120	223853	VV	0.110		2238.532	* uncalibrated *
2.504	65149	VV	0.146		651.492	* uncalibrated *
3.000	61973	VV	0.088		619.725	* uncalibrated *
3.192	94487	VV	0.138		944.874	* uncalibrated *
4.054	18489	VV	0.092		184.894	* uncalibrated *
4.500	34746	VV	0.143		347.457	* uncalibrated *
4.834	44886	VV	0.180		448.858	* uncalibrated *
5.080	13325	VV	0.097		133.253	* uncalibrated *
5.211	21286	VV	0.123		212.862	* uncalibrated *
5.475	13729	VV	0.118		137.292	* uncalibrated *
5.782	2174	PV	0.091		21.739	* uncalibrated *
6.072	62401	VV	0.139		624.005	* uncalibrated *
6.816	11788	VV	0.066		117.880	* uncalibrated *
6.986	17041	VV	0.099		170.407	* uncalibrated *
7.118	18051	VV	0.076		180.509	* uncalibrated *
7.284	28807	VV	0.071		288.075	* uncalibrated *
7.386	50294	VV	0.084		502.944	* uncalibrated *
7.526	26525	VV	0.096		265.252	* uncalibrated *
7.789	15870	VV	0.086		158.699	* uncalibrated *
8.367	12599	VV	0.087		125.991	* uncalibrated *
8.460	6864	VV	0.062		68.636	* uncalibrated *
9.200	1509	VV	0.036		15.088	* uncalibrated *
9.263	7802	VV	0.039		78.020	* uncalibrated *
9.527	205998	VV	0.057		2059.980	* uncalibrated *
9.689	28589	VV	0.035		285.892	* uncalibrated *
9.889	5291	VV	0.047		52.914	* uncalibrated *
10.008	29488	VV	0.033		294.880	* uncalibrated *
10.111	56645	VV	0.063		566.450	* uncalibrated *
10.180	20229	VV	0.044		202.287	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp071405\024R0101.D
erator : DCS
strument : FID/PID
mple Name : g204-469-1e msd
n Time Bar Code:
quired on : 14 Jul 05 06:05 PM
port Created on: 15 Jul 05 08:02 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.272	20640	VV	0.044	206.402	* uncalibrated *
10.321	21147	VV	0.033	211.466	* uncalibrated *
10.398	4858	VV	0.036	48.580	* uncalibrated *
10.445	4824	VV	0.037	48.241	* uncalibrated *
10.516	14721	VV	0.035	147.206	* uncalibrated *
10.558	26022	VV	0.039	260.222	* uncalibrated *
10.644	3447	VV	0.037	34.471	* uncalibrated *
10.761	14610	VV	0.050	146.100	* uncalibrated *
10.796	7278	VV	0.033	72.783	* uncalibrated *
10.853	10206	VV	0.040	102.061	* uncalibrated *
10.973	17528	VV	0.094	175.281	* uncalibrated *
11.351	3111	VV	0.039	31.113	* uncalibrated *
11.481	6807	VV	0.089	68.067	* uncalibrated *
11.761	6040	VV	0.038	60.397	* uncalibrated *
11.907	3146	VV	0.062	31.460	* uncalibrated *
12.356	446	PBA	0.066	4.462	* uncalibrated *

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VPH Prep, Standard, Run Logs

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp071405

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
021F0101.D	g204-469-8b x1	7/14/05 16:49				DCS		
022F0101.D	g204-469-1e x1	7/14/05 17:14				DCS		
023F0101.D	g204-469-1e ms	7/14/05 17:39				DCS		
024F0101.D	g204-469-1e msd	7/14/05 18:05				DCS		
025F0101.D	g204-469-2e x1	7/14/05 18:30				DCS		
026F0101.D	g204-469-3e x1	7/14/05 18:55				DCS		
027F0101.D	g204-469-4e x1	7/14/05 19:20				DCS		
028F0101.D	g204-469-5e x1	7/14/05 19:46				DCS		
029F0101.D	g204-469-6e x1	7/14/05 20:11				DCS		
030F0101.D	g204-469-7e x1	7/14/05 20:36				DCS		
031F0101.D	b	7/14/05 21:01				DCS		
032F0101.D	b	7/14/05 21:27				DCS		
033F0101.D	g106-528-1e x1	7/14/05 21:52				DCS		
034F0101.D	g106-528-2e x1	7/14/05 22:17				DCS		
035F0101.D	g161-2064-1d x10	7/14/05 22:42				DCS		
036F0101.D	g161-2064-2d x1	7/14/05 23:08				DCS		
037F0101.D	g161-2064-3d x1	7/14/05 23:33				DCS		
038F0101.D	g161-2069-1d x1	7/14/05 23:58				DCS		
039F0101.D	g161-2069-2d x1	7/15/05 0:23				DCS		
040F0101.D	g161-2069-2d dup	7/15/05 0:48				DCS		

Analyst: _____

Page Number: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-07/14/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp071405

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	b	7/14/05 8:24				DCS		
002F0101.D	b	7/14/05 8:49				DCS		
003F0101.D	V 10	7/14/05 9:14				DCS		
004F0101.D	V 250	7/14/05 9:40				DCS		
005F0101.D	V 500	7/14/05 10:05				DCS		
006F0101.D	V 750	7/14/05 10:30				DCS		
007F0101.D	B	7/14/05 10:56				DCS		
008F0101.D	V 1000	7/14/05 11:21				DCS		
009F0101.D	b	7/14/05 11:46				DCS		
010F0101.D	b	7/14/05 12:11				DCS		
011F0101.D	G500	7/14/05 12:37				DCS		
012F0101.D	lcs4071405a	7/14/05 13:02				DCS		
013F0101.D	vblk4071405a	7/14/05 13:27				DCS		
014F0101.D	g197-55-3e x1	7/14/05 13:52				DCS		
015F0101.D	g129-819-1d x1	7/14/05 14:17				DCS		
016F0101.D	g129-819-2d x1	7/14/05 14:43				DCS		
017F0101.D	g129-819-3d x1	7/14/05 15:08				DCS		
018F0101.D	g129-819-4d x1	7/14/05 15:33				DCS		
019F0101.D	g129-819-5d x1	7/14/05 15:58				DCS		
020F0101.D	b	7/14/05 16:24				DCS		

Analyst: _____

Page Number: _____

Volatiles Standard Logbook # 6 **Working Standard**
Paradigm Analytical

ID: VPH-QC-7-071405

referring page	Item	Lot Number	Components	Vendor	Initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A029644	MA VPH	Restek	500-1500	1200	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 7/14/05
Expires: 2/14/06

Comments: _____

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier

Page: _____

625 Sample Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 03:50:08 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MR 07-18-05 (1)

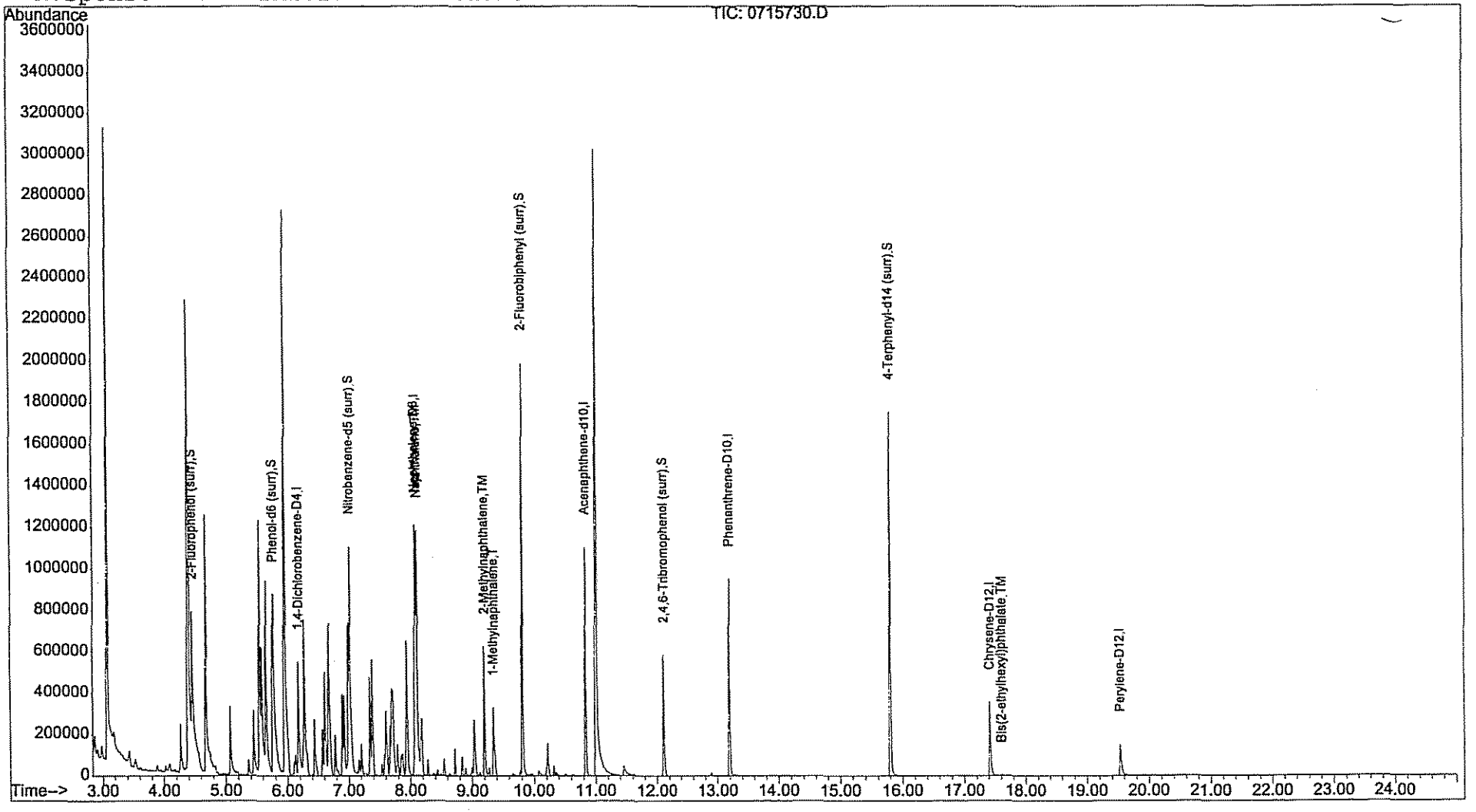
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	170686	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	687003	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.83	164	335098	4.00	ug/mL	-0.09
55) Phenanthrene-D10	13.19	188	510703	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	249639	4.00	ug/mL	-0.10
93) Perylene-D12	19.53	264	144079	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.46	112	337690	8.60	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 86.00%			
17) Phenol-d6 (surr)	5.77	99	554048	9.59	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 95.90%			
32) Nitrobenzene-d5 (surr)	7.02	128	212371	9.66	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 96.60%			
53) 2-Fluorobiphenyl (surr)	9.81	172	862810	9.31	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 93.10%			
54) 2,4,6-Tribromophenol (surr	12.11	330	97381	9.45	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 94.50%			
92) 4-Terphenyl-d14 (surr)	15.80	244	783699	12.56	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 125.60%			
Target Compounds						Qvalue
27) Naphthalene	8.11	128	651751	4.71	ug/mL	98
31) 2-Methylnaphthalene	9.20	142	272928	2.59	ug/mL	98
40) 1-Methylnaphthalene	9.35	142	144401	1.54	ug/mL	100
91) Bis(2-ethylhexyl)phthalate	17.61	149	7121	0.10	ug/mL#	52

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 15:40 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Toluene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	20.71 ug/mL	4146020	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	94
2	Toluene	92	C7H8	000108-88-3	90
3	Toluene	92	C7H8	000108-88-3	90
4	Toluene	92	C7H8	000108-88-3	90
5	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	86

****
Peak Number 2 Ethylbenzene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.27	1.79 ug/mL	358725	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	91
2	Ethylbenzene	106	C8H10	000100-41-4	91
3	Ethylbenzene	106	C8H10	000100-41-4	91
4	Ethylbenzene	106	C8H10	000100-41-4	91
5	Ethylbenzene	106	C8H10	000100-41-4	91

****
Peak Number 3 p-Xylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.39	21.70 ug/mL	4345420	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
3	p-Xylene	106	C8H10	000106-42-3	97
4	p-Xylene	106	C8H10	000106-42-3	97
5	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 Benzene, 1,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.68	8.37 ug/mL	1676780	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
2	p-Xylene	106	C8H10	000106-42-3	97
3	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95
4	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95
5	p-Xylene	106	C8H10	000106-42-3	95

****
Peak Number 5 Benzene, (1-methylethyl)- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	2.36 ug/mL	472726	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
2	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
3	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	91
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	91
5	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	91

****
Peak Number 6 Benzene, propyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.45	2.07 ug/mL	414320	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	91
2	Benzene, propyl-	120	C9H12	000103-65-1	91
3	Benzene, propyl-	120	C9H12	000103-65-1	91
4	Benzene, propyl-	120	C9H12	000103-65-1	83
5	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	78

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	7.72 ug/mL	1546090	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95

****
Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.58	5.07 ug/mL	1016080	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
5	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91

****
Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.65	7.11 ug/mL	1423990	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	97
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 10 Benzene, 1,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.95	21.17 ug/mL	4238370	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95

****
Peak Number 11 Benzene, 1,3,5-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.27	6.54 ug/mL	1308960	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	97
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94

****
Peak Number 12 Indane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.44	2.17 ug/mL	433718	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	64
2	Benzene, 1-propenyl-	118	C9H10	000637-50-3	49
3	Benzene, 1-propenyl-	118	C9H10	000637-50-3	47
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	47
5	Indane	118	C9H10	000496-11-7	46

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 13 Benzene, 1,2-diethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	1.39 ug/mL	278451	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	95
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	94
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	93
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	93

****
Peak Number 14 Benzene, 1-methyl-3-propyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.61	3.58 ug/mL	716040	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	94
2	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	94
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91

****
Peak Number 15 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.68	7.19 ug/mL	1440320	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 16 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.89	2.22 ug/mL	445315	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93

****
Peak Number 17 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	2.43 ug/mL	485953	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91

****
Peak Number 18 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.34	1.30 ug/mL	586172	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
4	Benzene, methyl(1-methylethyl)-	134	C10H14	025155-15-1	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715730.D Vial: 30
Acq On : 16 Jul 2005 3:25 am Operator: MRC
Sample : G161-2069-1L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 19 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.38	1.60 ug/mL	721856	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94

****
Peak Number 20 Ethanone, 1-(4-methylphenyl)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.94	2.23 ug/mL	1004480	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	90
2	Ethanone, 1-(methylphenyl)-	134	C9H10O	026444-19-9	90
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	80
4	Ethanone, 1-(4-methylphenyl)-	134	C9H10O	000122-00-9	78
5	Benzene, tert-butyl-	134	C10H14	000098-06-6	72

****
Peak Number 21 2-Propenoic acid, 3-(1H-ind... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.01	15.38 ug/mL	5119060	Acenaphthene-d10	10.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 3-(1H-indol-3-...	187	C11H9NO2	001204-06-4	10
2	p-Cyanophenyl trifluoromethyl ether	187	C8H4F3NO	000332-25-2	9
3	Benzene, 1-isocyanato-2-(trifluo...	187	C8H4F3NO	002285-12-3	9
4	Benzene, 1-isocyanato-3-(trifluo...	187	C8H4F3NO	000329-01-1	9
5	4-Fluoro-4,5-dichlorocyclohexane	170	C6H9Cl2F	000000-00-0	9

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 16 Jul 2005 3:25 am
Data File: C:\MSDCHEM\1\DATA\7071505\0715730.D
Name: G161-2069-1L x1
Misc: 625 - BN - TICS - CLP [3520-3238]
Method: C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Toluene	3.07	20.7	ug/mL	4146020	1	6.18	800907	4.0
Ethylbenzene	4.27	1.8	ug/mL	358725	1	6.18	800907	4.0
p-Xylene	4.39	21.7	ug/mL	4345420	1	6.18	800907	4.0
Benzene, 1,3-dime...	4.68	8.4	ug/mL	1676780	1	6.18	800907	4.0
Benzene, (1-methy...	5.08	2.4	ug/mL	472726	1	6.18	800907	4.0
Benzene, propyl-	5.45	2.1	ug/mL	414320	1	6.18	800907	4.0
Benzene, 1-ethyl-...	5.55	7.7	ug/mL	1546090	1	6.18	800907	4.0
Benzene, 1-ethyl-...	5.58	5.1	ug/mL	1016080	1	6.18	800907	4.0
Benzene, 1,2,3-tr...	5.65	7.1	ug/mL	1423990	1	6.18	800907	4.0
Benzene, 1,2,4-tr...	5.95	21.2	ug/mL	4238370	1	6.18	800907	4.0
Benzene, 1,3,5-tr...	6.27	6.5	ug/mL	1308960	1	6.18	800907	4.0
Indane	6.44	2.2	ug/mL	433718	1	6.18	800907	4.0
Benzene, 1,2-diet...	6.57	1.4	ug/mL	278451	1	6.18	800907	4.0
Benzene, 1-methyl...	6.61	3.6	ug/mL	716040	1	6.18	800907	4.0
Benzene, 4-ethyl-...	6.68	7.2	ug/mL	1440320	1	6.18	800907	4.0
Benzene, 2-ethyl-...	6.89	2.2	ug/mL	445315	1	6.18	800907	4.0
Benzene, 2-ethyl-...	6.92	2.4	ug/mL	485953	1	6.18	800907	4.0
Benzene, 1,2,4,5-...	7.34	1.3	ug/mL	586172	2	8.08	1803850	4.0
Benzene, 1,2,4,5-...	7.38	1.6	ug/mL	721856	2	8.08	1803850	4.0
Ethanone, 1-(4-me...	7.94	2.2	ug/mL	1004480	2	8.08	1803850	4.0
2-Propenoic acid,...	11.01	15.4	ug/mL	5119060	3	10.83	1331630	4.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 04:24:26 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-18-05 (1)

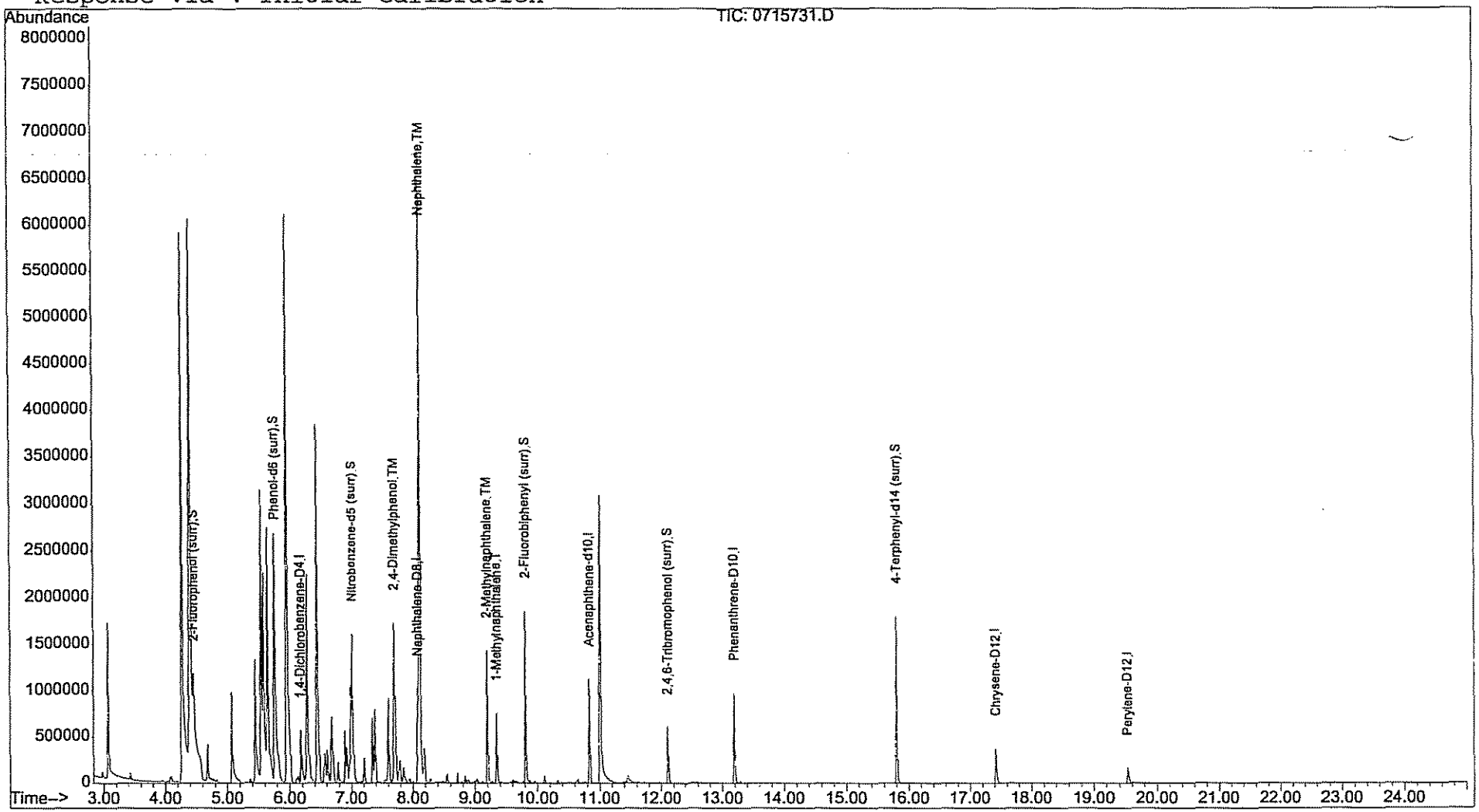
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	172754	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	691140	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.83	164	337835	4.00	ug/mL	-0.09
55) Phenanthrene-D10	13.19	188	515999	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	256193	4.00	ug/mL	-0.10
93) Perylene-D12	19.53	264	145305	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.46	112	291506	7.33	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	73.30%	
17) Phenol-d6 (surr)	5.77	99	497557	8.51	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	85.10%	
32) Nitrobenzene-d5 (surr)	7.02	128	202123	9.14	ug/mL	-0.07
Spiked Amount 10.000			Recovery	=	91.40%	
53) 2-Fluorobiphenyl (surr)	9.81	172	796798	8.53	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	85.30%	
54) 2,4,6-Tribromophenol (surr	12.11	330	100634	9.69	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	96.90%	
92) 4-Terphenyl-d14 (surr)	15.80	244	796572	12.44	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	124.40%	
Target Compounds						Qvalue
22) 2,4-Dimethylphenol	7.70	122	20001	0.46	ug/mL#	91
27) Naphthalene	8.12	128	4899096	35.16	ug/mL	100
31) 2-Methylnaphthalene	9.20	142	598548	NT 5.64	ug/mL	99
40) 1-Methylnaphthalene	9.35	142	314043	NT 3.32	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 15:40 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.07	9.79 ug/mL	2085300	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	95
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	90
4	Toluene	92	C7H8	000108-88-3	87
5	Toluene	92	C7H8	000108-88-3	87

****

Peak Number 2 Ethylbenzene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.27	46.56 ug/mL	9914570	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	94
2	Ethylbenzene	106	C8H10	000100-41-4	94
3	Ethylbenzene	106	C8H10	000100-41-4	94
4	Ethylbenzene	106	C8H10	000100-41-4	94
5	Ethylbenzene	106	C8H10	000100-41-4	91

****

Peak Number 3 p-Xylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.41	58.03 ug/mL	12356800	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	p-Xylene	106	C8H10	000106-42-3	97
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
4	p-Xylene	106	C8H10	000106-42-3	97
5	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 Benzene, 1,3-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.68	2.30 ug/mL	489168	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	95
2	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95
3	p-Xylene	106	C8H10	000106-42-3	95
4	p-Xylene	106	C8H10	000106-42-3	95
5	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	94

****
Peak Number 5 Benzene, (1-methylethyl)- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	7.23 ug/mL	1540010	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	95
2	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	95
3	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
4	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94
5	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	94

****
Peak Number 6 Benzene, propyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.45	9.40 ug/mL	2001530	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	91
2	Benzene, propyl-	120	C9H12	000103-65-1	91
3	Benzene, propyl-	120	C9H12	000103-65-1	91
4	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	83
5	Benzene, propyl-	120	C9H12	000103-65-1	53

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	19.33 ug/mL	4116180	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95

****
Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.58	17.68 ug/mL	3764940	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91

****
Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.65	20.81 ug/mL	4431450	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	95

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 10 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.96	50.63 ug/mL	10781000	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	95

****
Peak Number 11 1,2,4-Trimethylbenzene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.28	15.63 ug/mL	3328070	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4-Trimethylbenzene	120	C9H12	000095-36-3	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94

****
Peak Number 12 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.44	26.96 ug/mL	5741160	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	74
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
4	Indane	118	C9H10	000496-11-7	72
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	58

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 13 Benzene, 1,3-diethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	2.68 ug/mL	570749	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	94
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	93
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	87
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87

****
Peak Number 14 Benzene, 1-methyl-3-propyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.61	2.05 ug/mL	436087	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90

****
Peak Number 15 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.68	6.50 ug/mL	1384940	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 16 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.89	3.04 ug/mL	647843	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95

****
Peak Number 17 Benzene, 1-methyl-4-(1-meth... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	2.27 ug/mL	483095	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methyleth...	134	C10H14	000099-87-6	94
2	Benzene, 1-methyl-2-(1-methyleth...	134	C10H14	000527-84-4	94
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91

****
Peak Number 18 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.34	2.52 ug/mL	863445	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715731.D Vial: 31
Acq On : 16 Jul 2005 3:59 am Operator: MRC
Sample : G161-2069-2L x1 Inst : MSD7
Misc : 625 - BN - TICS - CLP [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 19 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.38	2.96 ug/mL	1011980	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94

****
Peak Number 20 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	3.83 ug/mL	1312230	Naphthalene-D8	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	94
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	91
3	Indan, 1-methyl-	132	C10H12	000767-58-8	90
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87

****
Peak Number 21 Benzene, 1-isocyanato-2-(tr... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.01	15.37 ug/mL	5242290	Acenaphthene-d10	10.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-isocyanato-2-(trifluo...	187	C8H4F3NO	002285-12-3	9
2	3,5-Dimethyl-4-benzylisoxazole	187	C12H13NO	010557-84-3	9
3	4-Fluoro-4,5-dichlorocyclohexane	170	C6H9Cl2F	000000-00-0	9
4	1-Azabicyclo[2.2.2]octane, 3-phe...	187	C13H17N	058822-88-1	9
5	Cyclohexene, 4-ethenyl-	108	C8H12	000100-40-3	8

Tentatively Identified Compound (LSC) summary

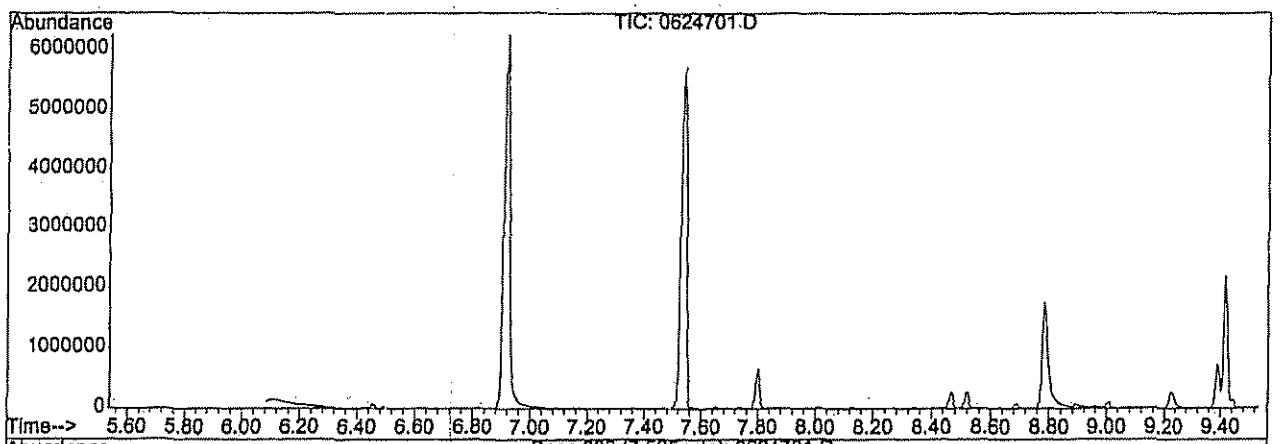
Operator ID: MRC Date Acquired: 16 Jul 2005 3:59 am
Data File: C:\MSDCHEM\1\DATA\7071505\0715731.D
Name: G161-2069-2L x1
Misc: 625 - BN - TICS - CLP [3520-3238]
Method: C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Toluene	3.07	9.8	ug/mL	2085300	1	6.18	851777	4.0
Ethylbenzene	4.27	46.6	ug/mL	9914570	1	6.18	851777	4.0
p-Xylene	4.41	58.0	ug/mL	12356800	1	6.18	851777	4.0
Benzene, 1,3-dime...	4.68	2.3	ug/mL	489168	1	6.18	851777	4.0
Benzene, (1-methy...	5.07	7.2	ug/mL	1540010	1	6.18	851777	4.0
Benzene, propyl-	5.45	9.4	ug/mL	2001530	1	6.18	851777	4.0
Benzene, 1-ethyl-...	5.55	19.3	ug/mL	4116180	1	6.18	851777	4.0
Benzene, 1-ethyl-...	5.58	17.7	ug/mL	3764940	1	6.18	851777	4.0
Benzene, 1,2,3-tr...	5.65	20.8	ug/mL	4431450	1	6.18	851777	4.0
Benzene, 1,2,3-tr...	5.96	50.6	ug/mL	10781000	1	6.18	851777	4.0
1,2,4-Trimethylbe...	6.28	15.6	ug/mL	3328070	1	6.18	851777	4.0
Indane	6.44	27.0	ug/mL	5741160	1	6.18	851777	4.0
Benzene, 1,3-diet...	6.57	2.7	ug/mL	570749	1	6.18	851777	4.0
Benzene, 1-methyl...	6.61	2.0	ug/mL	436087	1	6.18	851777	4.0
Benzene, 1-ethyl-...	6.68	6.5	ug/mL	1384940	1	6.18	851777	4.0
Benzene, 2-ethyl-...	6.89	3.0	ug/mL	647843	1	6.18	851777	4.0
Benzene, 1-methyl...	6.92	2.3	ug/mL	483095	1	6.18	851777	4.0
Benzene, 1,2,3,5-...	7.34	2.5	ug/mL	863445	2	8.08	1369090	4.0
Benzene, 1,2,4,5-...	7.38	3.0	ug/mL	1011980	2	8.08	1369090	4.0
1H-Indene, 2,3-di...	7.60	3.8	ug/mL	1312230	2	8.08	1369090	4.0
Benzene, 1-isocya...	11.01	15.4	ug/mL	5242290	3	10.83	1363950	4.0

625 Tuning

DFTPP

Data File : C:\MSDCHEM\1\DATA\7062405\0624701.D Vial: 1
Acq On : 24 Jun 2005 12:04 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7062405\DFTPP.M (RTE Integrator)
Title :



Spectrum Information: Scan 306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	222336	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.0	202048	PASS
70	69	0.00	2	0.7	1487	PASS
127	198	40	60	42.7	278720	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	652672	PASS
199	198	5	9	6.8	44416	PASS
275	198	10	30	24.4	159168	PASS
365	198	1	100	2.8	18016	PASS
441	443	0.01	100	74.0	93720	PASS
442	198	40	100	98.1	640384	PASS
443	442	17	23	19.8	126648	PASS

0624701.D DFTPP.M Fri Jun 24 12:32:40 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624701.D Vial: 1
Acq On : 24 Jun 2005 12:04 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:31:57 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Jun 03 09:12:12 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7060305\0603701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Pentachlorophenol	6.92	TIC	9080354	23.43		100
2) Benzidine	9.00	TIC	101668	0.24		100
3) DDT	9.78	TIC	7592894	14.92		100
4) DDD	9.41	TIC	1937511m	51.96		
5) DDE	9.00	TIC	87356m	21.52		

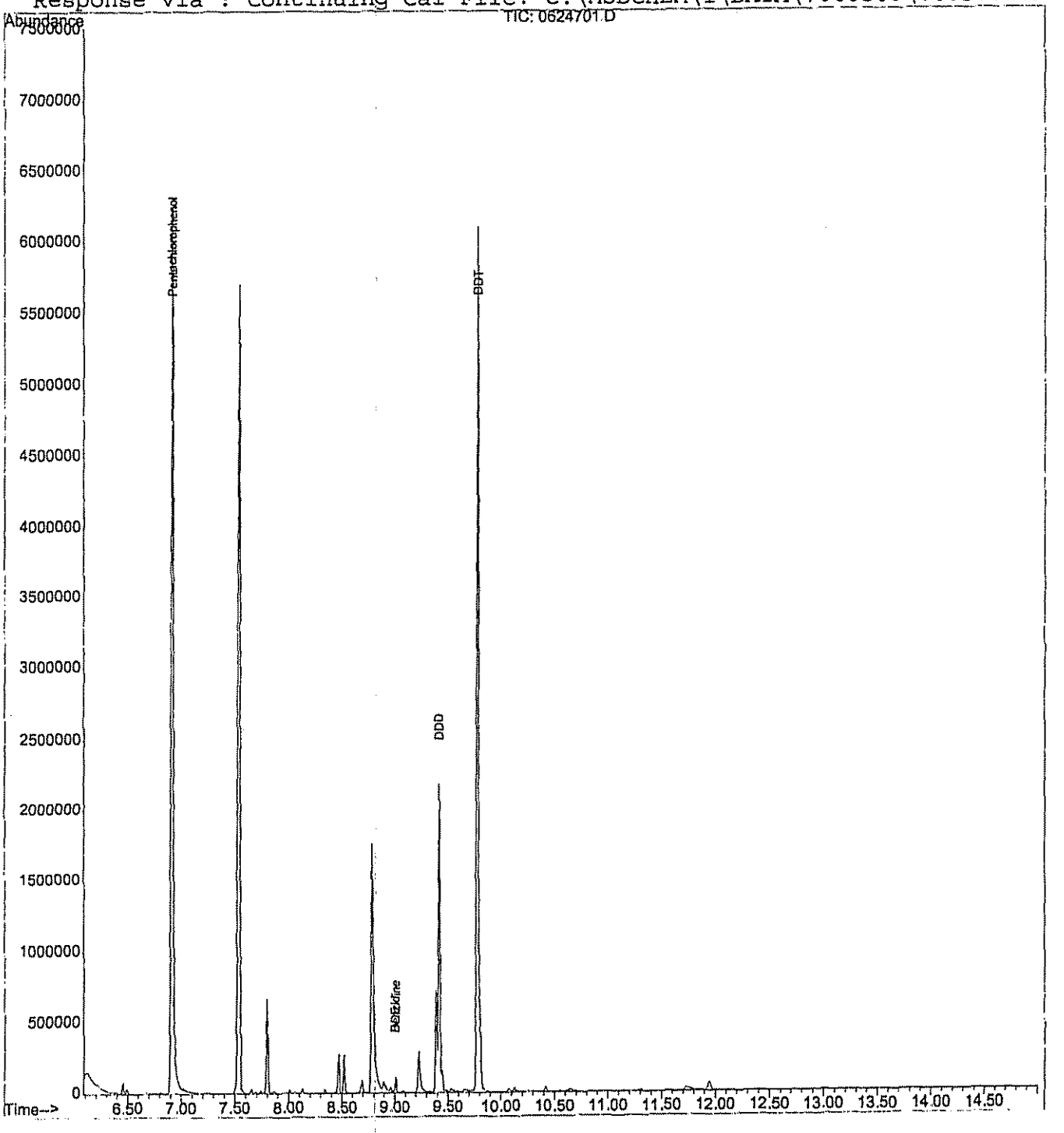
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624701.D
Acq On : 24 Jun 2005 12:04 pm
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 24 12:32 2005

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: DFTPP.RES

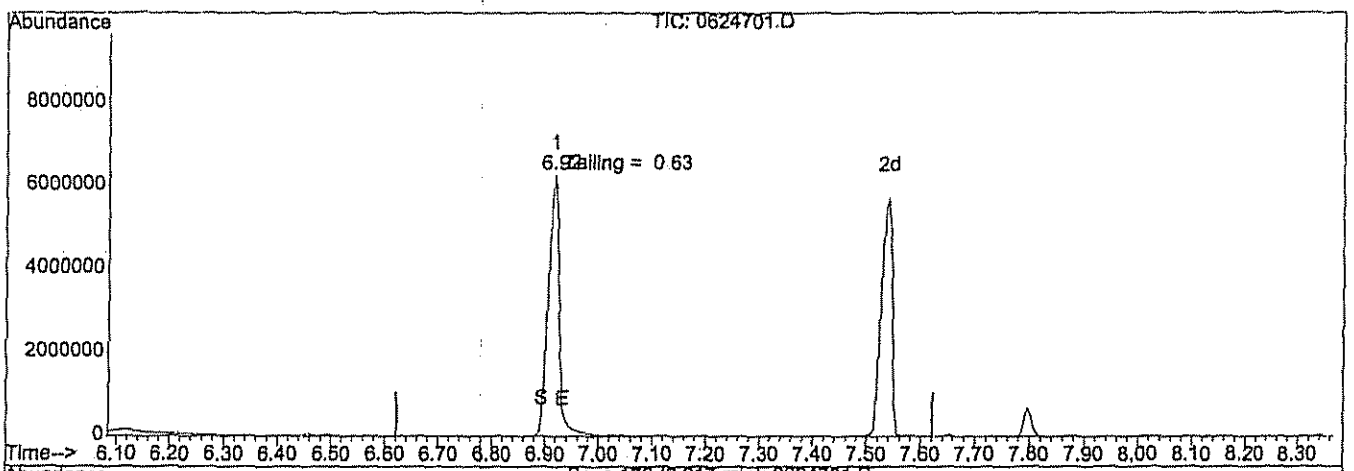
Method : C:\MSDCHEM\1\DATA\7062405\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Jun 03 09:12:12 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7060305\0603701.D

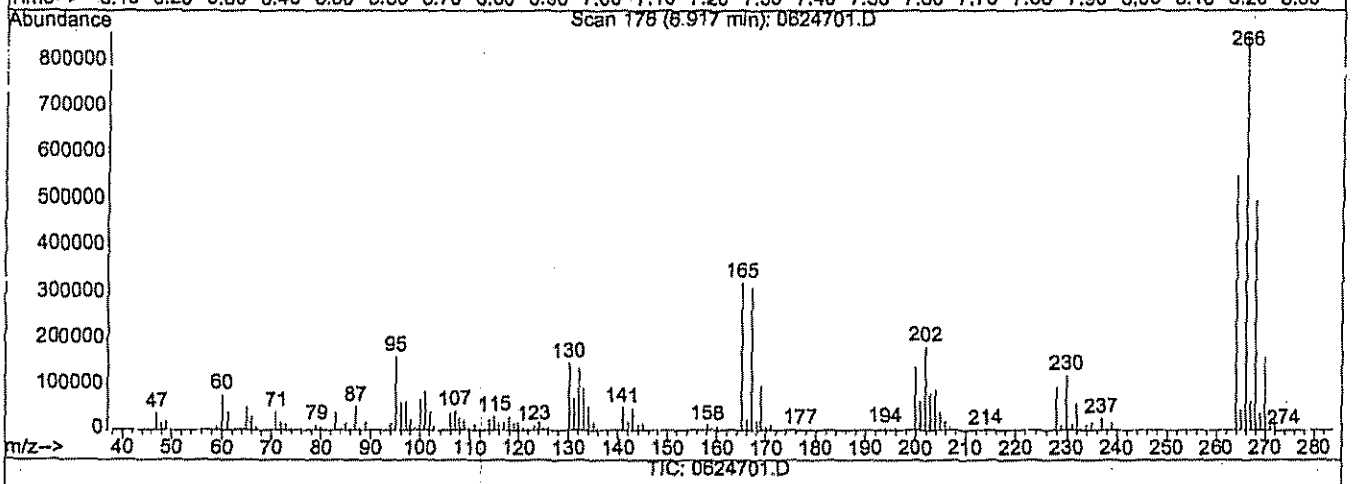


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624701.D Vial: 1
Acq On : 24 Jun 2005 12:04 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Jun 03 09:12:12 2005
Response via : Single Level Calibration





TIC: 0624701.D

(1) Pentachlorophenol

6.92min 23.43

response 9080354

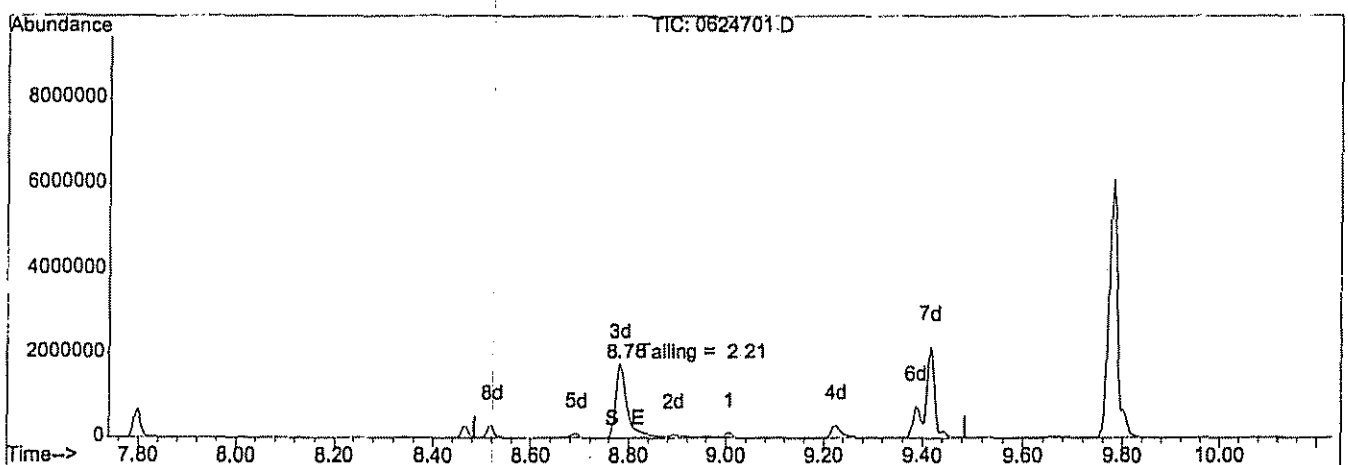
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

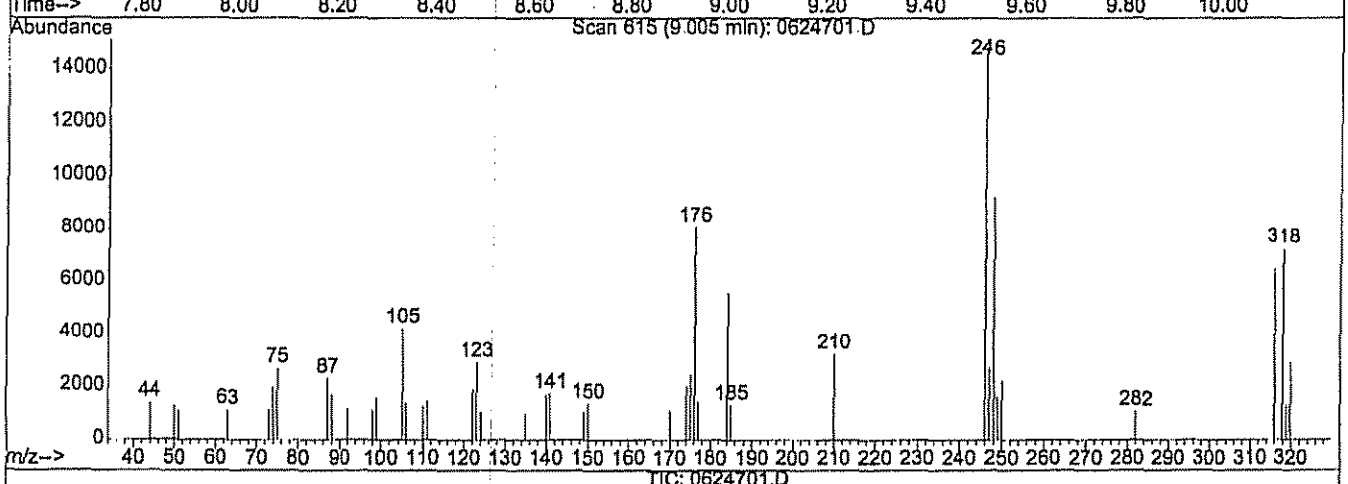
0624701.D DFTPP.M Fri Jun 24 12:33:22 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624701.D Vial: 1
Acq On : 24 Jun 2005 12:04 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Jun 03 09:12:12 2005
Response via : Single Level Calibration





TIC: 0624701.D

(2) Benzidine

9.00min 0.24

response 101668

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0624701.D DFTPP.M Fri Jun 24 12:33:41 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	7592894
	DDD	1397511
	DDE	87356
	% Breakdown =	**16.36%**

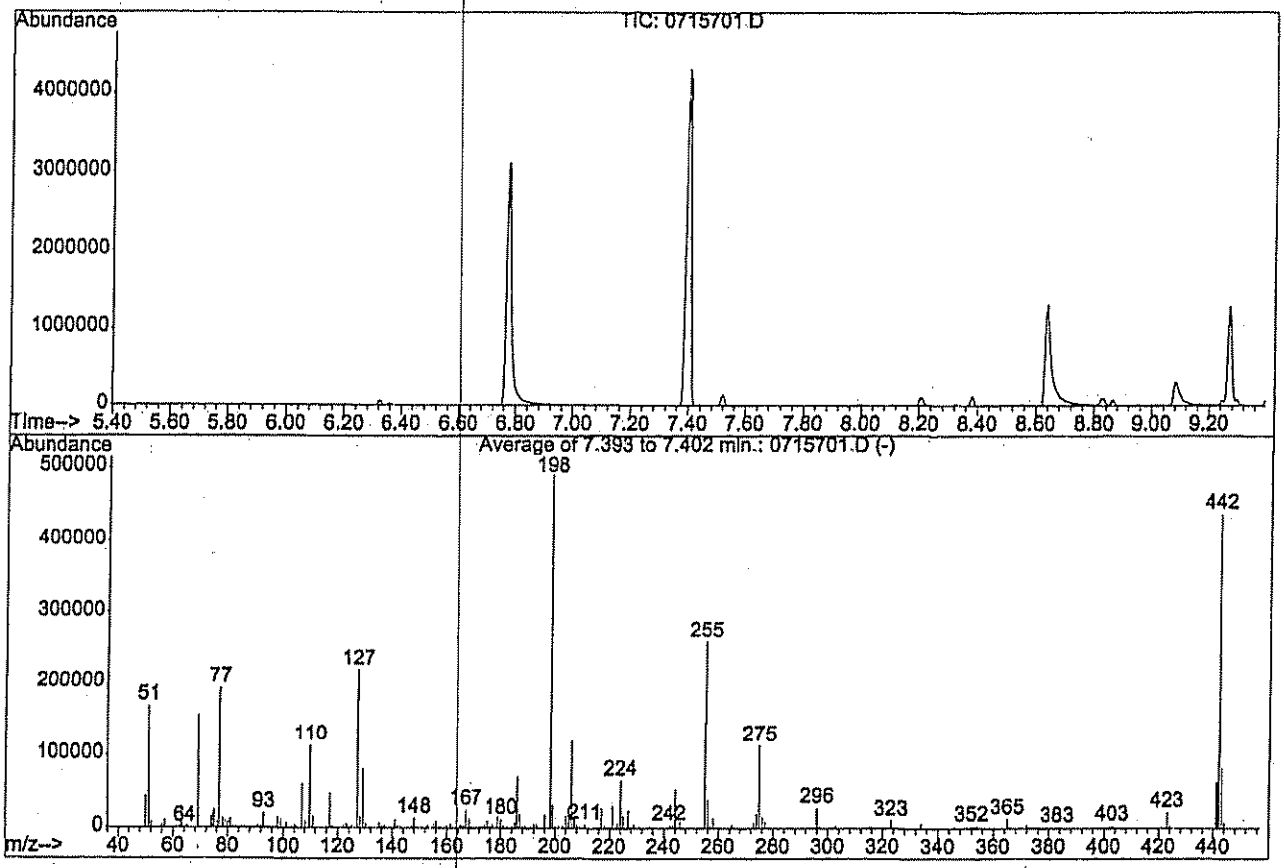
Date: 06/24/05

Instrument: MSD7

File: 0624701.d

DFTPP

Data File : C:\MSDCHEM\1\DATA\7071505\0715701.D Vial: 1
Acq On : 15 Jul 2005 10:57 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7071505\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 276, 277, 278; Background Corrected with Scan 269

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.2	167616	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.7	155178	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.6	218176	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	489578	PASS
199	198	5	9	6.7	32922	PASS
275	198	10	30	23.1	113213	PASS
365	198	1	100	2.6	12814	PASS
441	443	0.01	100	74.6	62632	PASS
442	198	40	100	89.0	435669	PASS
443	442	17	23	19.3	83938	PASS

0715701.D DFTPP.M Fri Jul 15 11:12:08 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715701.D Vial: 1
Acq On : 15 Jul 2005 10:57 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 11:47:11 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Pentachlorophenol	6.77	TIC	4022815	10.38	100
2) Benzidine	8.64	TIC	2184782	5.14	100
3) DDT	9.63	TIC	5199571	10.21	100
4) DDD	9.27	TIC	1146824m	30.76	
5) DDE	8.86	TIC	55236m	13.61	

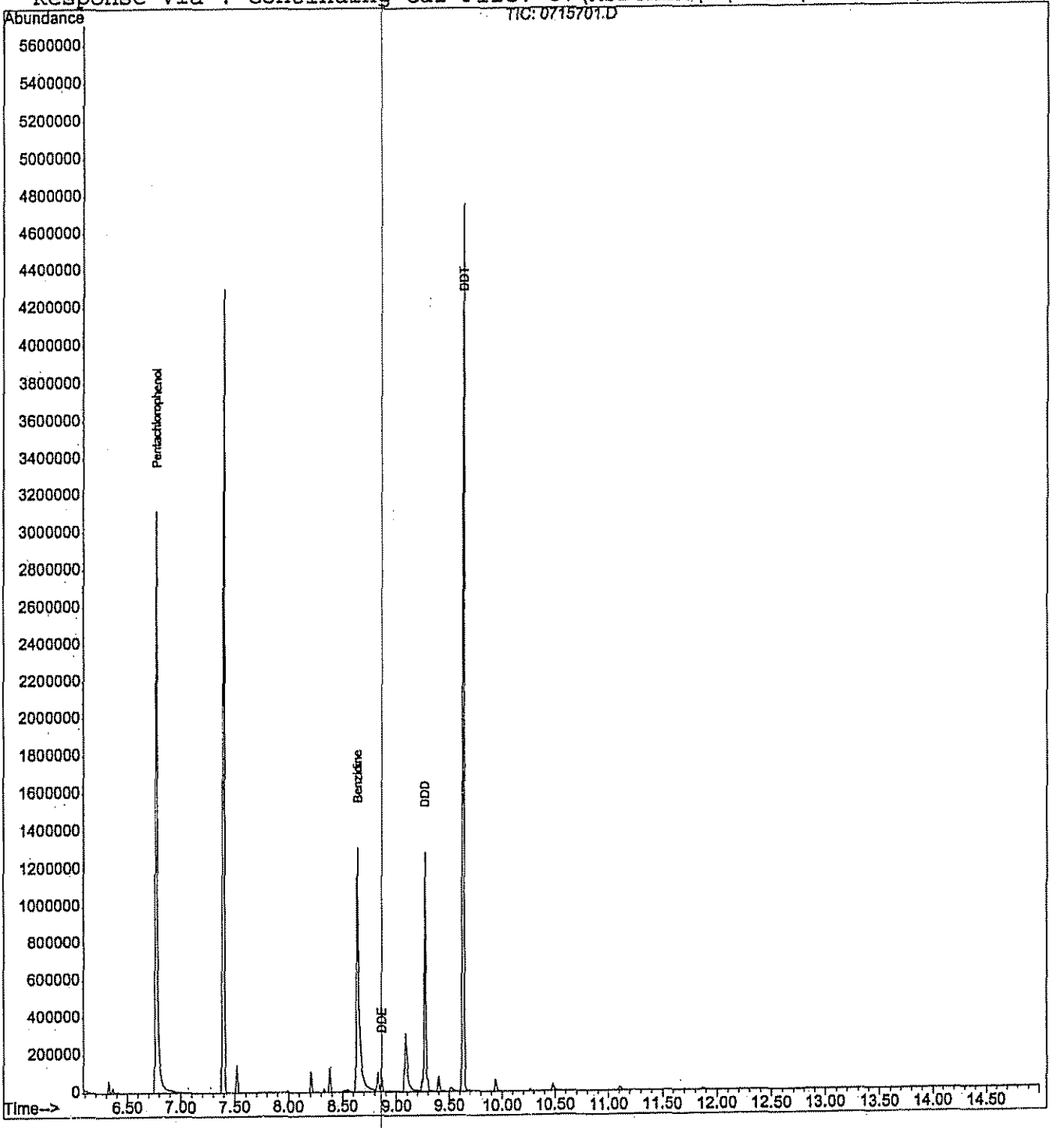
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715701.D
Acq On : 15 Jul 2005 10:57 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 15 11:47 2005

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: DFTPP.RES

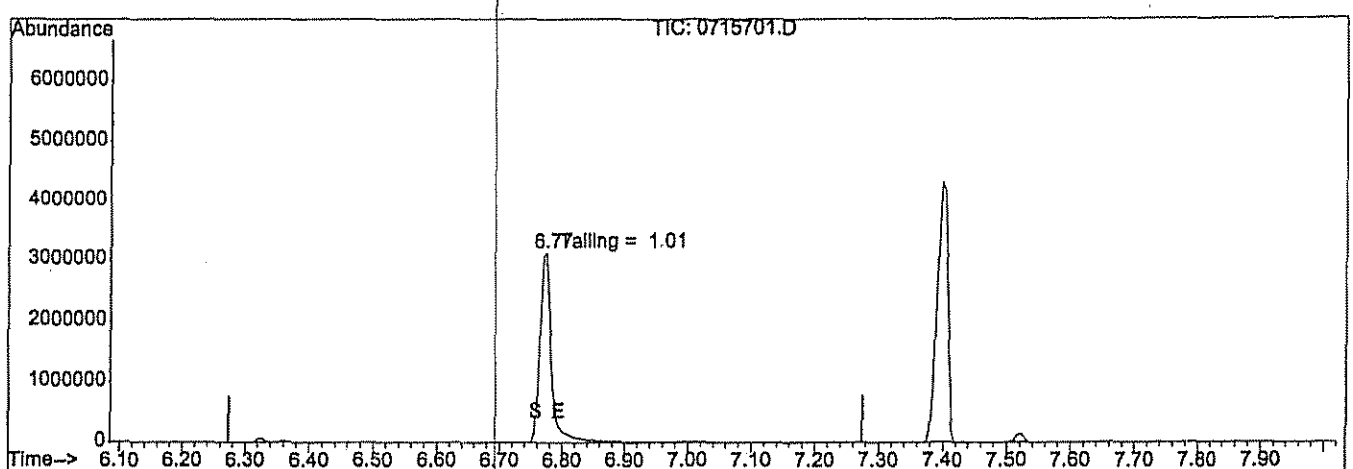
Method : C:\MSDCHEM\1\DATA\7071505\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7071405\0714701.D

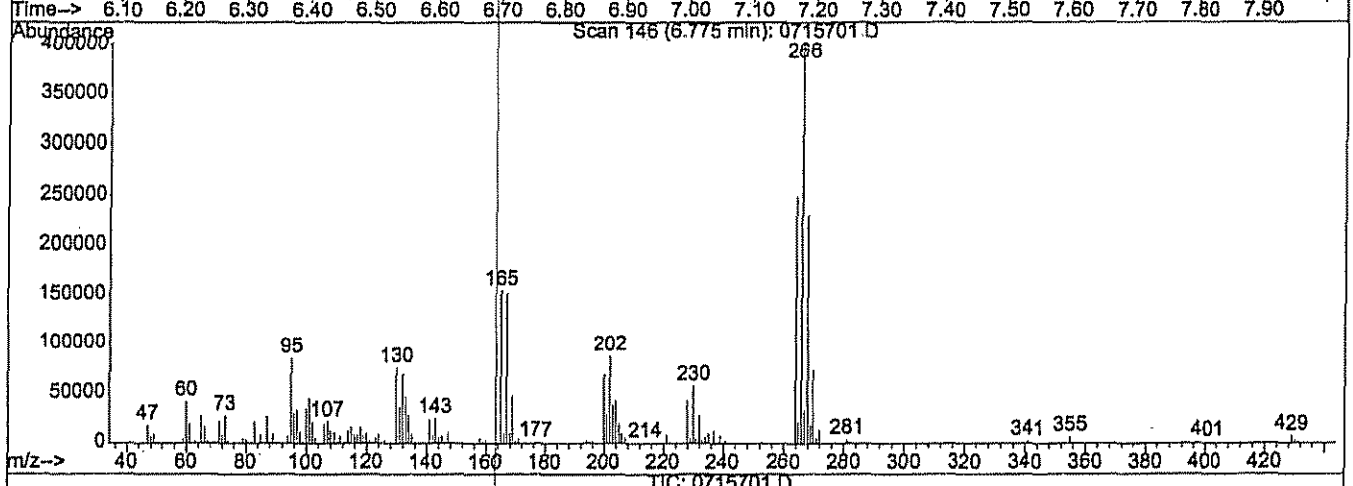


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715701.D Vial: 1
Acq On : 15 Jul 2005 10:57 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 11:47 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





TIC: 0715701.D

(1) Pentachlorophenol

6.77min 10.38

response 4022815

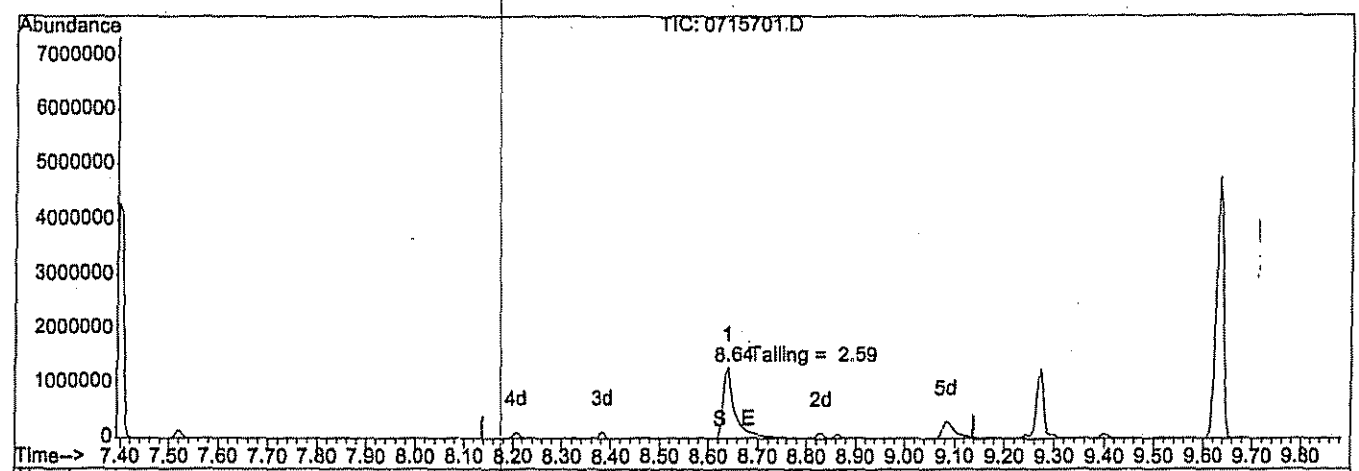
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

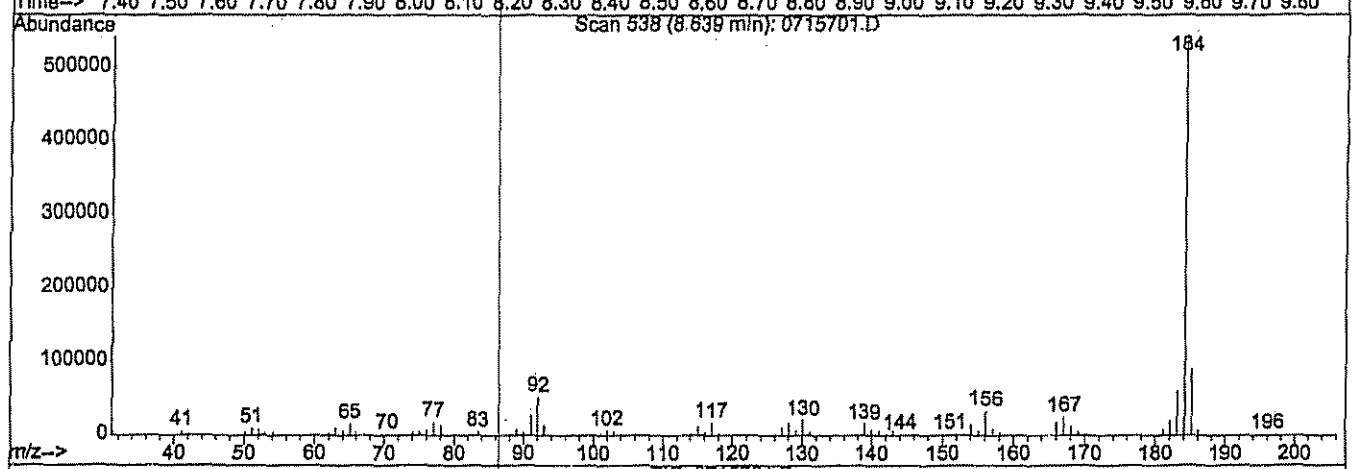
0715701.D DFTPP.M Fri Jul 15 11:48:01 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715701.D Vial: 1
Acq On : 15 Jul 2005 10:57 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 11:47 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Jul 14 10:47:23 2005
Response via : Single Level Calibration





TIC: 0715701.D

(2) Benzidine

8.64min 5.14

response 2184782

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0715701.D DFTPP.M Fri Jul 15 11:48:09 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	5199571
	DDD	1146824
	DDE	55236
	% Breakdown =	**18.78%**

Date: 07/15/05

Instrument: MSD7

File: 0715701.d

625 Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD7
Method ; 8270.M
Matrix ; NA
Cal. Date ; 24 Jun 2005 12:32 pm
Last Modified ; Fri Jun 24 16:26:40 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\MSDCHEM\1\DATA\7062405\0624702.D
24 ; C:\MSDCHEM\1\DATA\7062405\0624703.D
12 ; C:\MSDCHEM\1\DATA\7062405\0624704.D
8 ; C:\MSDCHEM\1\DATA\7062405\0624705.D
6 ; C:\MSDCHEM\1\DATA\7062405\0624706.D
4 ; C:\MSDCHEM\1\DATA\7062405\0624707.D
2 ; C:\MSDCHEM\1\DATA\7062405\0624708.D
1 ; C:\MSDCHEM\1\DATA\7062405\0624709.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	48.0	24.0	12.0	8.0	6.0	4.0	2.0	1.0		
Pyridine	0.646	0.842	0.801	0.818	0.794	0.759	0.779		0.777	8.196
N-Nitrosodimethylamine		0.582	0.603	0.581	0.616	0.591	0.569	0.511	0.579	5.830
Phenol	1.445	1.573	1.664	1.566	1.690	1.650	1.616	1.274	1.560	8.891
Bis(2-chloroethyl)ether	1.182	1.180	1.245	1.203	1.234	1.213	1.268	1.169	1.212	2.900
2-Chlorophenol	1.171	1.249	1.282	1.215	1.296	1.265	1.207	1.163	1.231	4.043
Benzyl Alcohol	0.798	0.817	0.825	0.763	0.812	0.745	0.648	0.454	0.733	17.268
1,3-Dichlorobenzene	1.185	1.274	1.330	1.257	1.375	1.323	1.313	1.303	1.295	4.402
1,4-Dichlorobenzene	1.196	1.310	1.389	1.343	1.439	1.410	1.396	1.404	1.361	5.736
1,2-Dichlorobenzene	1.077	1.184	1.234	1.186	1.292	1.256	1.239	1.242	1.214	5.416
2-Methylphenol	0.762	0.850	0.932	0.933	1.014	0.988	0.957	0.856	0.911	9.132
3-, 4-Methylphenol	0.974	1.266	1.393	1.365	1.394	1.402	1.340	1.206	1.293	11.301
Bis(2-chloroisopropyl)ether	1.328	1.523	1.734	1.727	1.867	1.874	1.897	1.929	1.735	12.149
N-Nitrosodi-n-propylamine	0.575	0.635	0.667	0.621	0.668	0.648	0.626	0.583	0.628	5.523
Hexachloroethane	0.302	0.406	0.448	0.435	0.470	0.470	0.453	0.453	0.430	12.902
2-Fluorophenol (surr)	0.961	0.995	0.996	0.936	0.996	0.903	0.855	0.723	0.921	10.274
Phenol-d6 (surr)	1.266	1.344	1.419	1.359	1.458	1.390	1.347	1.247	1.354	5.276
Nitrobenzene	0.252	0.264	0.288	0.274	0.296	0.289	0.278	0.258	0.275	5.725
Isophorone	0.421	0.418	0.438	0.414	0.444	0.434	0.434	0.436	0.430	2.465
2-Nitrophenol	0.171	0.177	0.184	0.170	0.181	0.167	0.152	0.126	0.166	11.484
2,4-Dimethylphenol	0.239	0.245	0.267	0.250	0.272	0.257	0.245	0.227	0.250	5.915
Benzoic Acid	0.180	0.172	0.166	0.134	0.141	0.117	0.073		0.141	26.501
Bis(2-chloroethoxy)methane	0.292	0.307	0.335	0.314	0.341	0.330	0.324	0.300	0.318	5.547
2,4-Dichlorophenol	0.221	0.236	0.252	0.234	0.254	0.238	0.214	0.172	0.228	11.573
1,2,4-Trichlorobenzene	0.223	0.238	0.261	0.244	0.265	0.257	0.257	0.248	0.249	5.585
Naphthalene	0.677	0.751	0.833	0.788	0.860	0.843	0.849	0.850	0.806	7.931
4-Chloroaniline		0.192	0.130	0.085	0.070	0.063	0.059	0.040	0.091	57.759
Hexachlorobutadiene	0.105	0.114	0.126	0.121	0.131	0.129	0.128	0.128	0.123	7.351
4-Chloro-3-methylphenol	0.220	0.234	0.252	0.235	0.250	0.237	0.220	0.192	0.230	8.481
2-Methylnaphthalene	0.502	0.561	0.635	0.598	0.662	0.650	0.651	0.651	0.614	9.240
Nitrobenzene-d5 (surr)	0.131	0.134	0.139	0.127	0.138	0.130	0.121	0.104	0.128	8.738
Hexachlorocyclopentadiene	0.094	0.096	0.100	0.081	0.081	0.065	0.041	0.017	0.072	40.768
2,4,6-Trichlorophenol	0.301	0.325	0.344	0.329	0.348	0.329	0.317	0.287	0.323	6.370
2,4,5-Trichlorophenol	0.320	0.356	0.348	0.369	0.399	0.373	0.346	0.316	0.353	7.866
2-Chloronaphthalene	0.828	0.915	0.991	0.976	1.050	1.023	1.014	1.001	0.975	7.321
2-Nitroaniline	0.277	0.293	0.282	0.259	0.275	0.263	0.245	0.225	0.265	8.224
3-Nitroaniline	0.158	0.106	0.039	0.026	0.026	0.023	0.016		0.056	96.340
1-Methylnaphthalene	0.883	1.014	1.143	1.096	1.212	1.195	1.210	1.203	1.119	10.549
Dimethylphthalate	1.026	1.082	1.131	1.083	1.172	1.129	1.145	1.136	1.113	4.163
Acenaphthylene	1.100	1.216	1.439	1.468	1.592	1.559	1.541	1.557	1.434	12.563
2,6-Dinitrotoluene	0.203	0.238	0.258	0.249	0.262	0.243	0.239	0.216	0.239	8.458
Acenaphthene	0.805	0.905	1.007	0.978	1.066	1.043	1.043	1.072	0.990	9.352
2,4-Dinitrophenol	0.139	0.146	0.148	0.131	0.146	0.133	0.121	0.110	0.134	10.034
4-Nitrophenol	0.113	0.114	0.111	0.094	0.095	0.081	0.027		0.091	33.933
Dibenzofuran	1.235	1.371	1.506	1.450	1.592	1.536	1.544	1.583	1.477	8.232
2,4-Dinitrotoluene	0.287	0.307	0.325	0.311	0.336	0.319	0.309	0.292	0.311	5.210
Fluorene	0.902	1.008	1.099	1.071	1.169	1.127	1.134	1.142	1.081	8.127
Diethylphthalate	0.942	1.019	1.110	1.090	1.174	1.136	1.144	1.135	1.094	7.029
4-Chlorophenyl phenyl ether	0.432	0.486	0.524	0.513	0.550	0.537	0.533	0.528	0.513	7.390
4-Nitroaniline	0.122	0.122	0.119	0.109	0.117	0.103	0.055		0.107	22.522
2-Fluorobiphenyl (surr)	0.910	1.028	1.119	1.103	1.196	1.167	1.164	1.158	1.106	8.568
2,4,6-Tribromophenol (surr)	0.127	0.134	0.138	0.124	0.134	0.122	0.111	0.093	0.123	12.042
4,6-Dinitro-2-methylphenol	0.109	0.119	0.121	0.108	0.116	0.101	0.088	0.052	0.102	22.413
Diphenylamine				0.291	0.327	0.347	0.382	0.402	0.350	12.566
4-bromophenyl phenyl ether	0.130	0.152	0.178	0.176	0.190	0.182	0.182	0.172	0.170	11.534
Hexachlorobenzene	0.152	0.169	0.181	0.174	0.188	0.179	0.184	0.180	0.176	6.393
Pentachlorophenol	0.113	0.122	0.113	0.097	0.097	0.078	0.047		0.095	27.002
Phenanthrene	0.823	0.929	1.018	1.004	1.078	1.057	1.064	1.075	1.006	8.847

Carbazole			0.208	0.273	0.312	0.380	0.544	0.611	0.388	40.852
Anthracene	0.789	0.899	0.985	0.967	1.048	1.007	1.018	1.012	0.966	8.694
Azobenzene	0.552	0.607	0.680	0.677	0.726	0.730	0.745	0.751	0.683	10.407
Di-n-Butylphthalate	0.938	1.087	1.185	1.189	1.274	1.236	1.236	1.203	1.169	9.252
Fluoranthene	0.809	0.890	0.963	0.933	1.007	0.969	0.931	0.917	0.927	6.439
alpha-BHC	0.089	0.105	0.119	0.119	0.129	0.129	0.132	0.129	0.119	12.483
beta-BHC	0.078	0.096	0.107	0.103	0.111	0.108	0.108	0.101	0.102	10.488
gamma-BHC	0.085	0.097	0.106	0.105	0.112	0.110	0.115	0.114	0.106	9.663
delta-BHC	0.081	0.091	0.099	0.097	0.104	0.099	0.098	0.093	0.095	7.591
Heptachlor	0.084	0.108	0.124	0.127	0.137	0.134	0.133	0.133	0.122	14.707
Aldrin		0.099	0.119	0.120	0.131	0.131	0.138	0.141	0.125	11.243
Heptachlor Epoxide	0.046	0.052	0.054	0.053	0.055	0.053	0.050	0.049	0.052	6.115
Endosulfan I		0.023	0.030	0.032	0.035	0.035	0.035	0.029	0.031	14.387
4,4'-DDE	0.154	0.183	0.200	0.198	0.212	0.205	0.204	0.204	0.195	9.579
Dieldrin		0.123	0.157	0.161	0.176	0.173	0.184	0.187	0.166	13.192
Endrin	0.020	0.026	0.030	0.031	0.032	0.030	0.032	0.028	0.029	13.561
Endosulfan II	Not Calibrated									
4,4'-DDD	0.299	0.348	0.381	0.357	0.385	0.372	0.369	0.350	0.358	7.613
Endosulfan Sulfate	0.037	0.042	0.046	0.048	0.053	0.052	0.048	0.044	0.046	10.912
4,4'-DDT	0.191	0.231	0.234	0.261	0.284	0.269	0.256	0.251	0.247	11.558
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.034	0.036	0.038	0.037	0.040	0.039	0.040	0.035	0.038	6.276
Methoxychlor	0.339	0.421	0.437	0.514	0.550	0.531	0.501	0.477	0.471	14.705
Pyrene	1.191	1.281	1.468	1.494	1.564	1.530	1.630	1.654	1.476	11.022
Butylbenzylphthalate	0.762	0.821	0.848	0.833	0.851	0.818	0.841	0.804	0.822	3.538
Benzo[a]anthracene	1.064	1.133	1.202	1.164	1.238	1.193	1.198	1.191	1.173	4.546
3,3'-Dichlorobenzidine	0.236	0.196	0.148	0.133	0.141	0.115	0.061	0.020	0.131	52.212
Chrysene	1.064	1.051	1.091	1.051	1.143	1.108	1.122	1.151	1.098	3.641
Bis(2-ethylhexyl)phthalate	1.027	1.119	1.181	1.194	1.211	1.167	1.223	1.178	1.163	5.436
4-Terphenyl-d14 (surr)	0.845	0.973	1.048	1.015	1.054	0.997	1.046	1.022	1.000	6.835
Di-n-octylphthalate	2.293	2.922	3.409	2.784	2.707	2.524	2.702	2.376	2.715	12.906
Benzo[b]fluoranthene	1.374	1.410	1.459	1.271	1.331	1.214	1.200	1.055	1.289	10.192
Benzo[k]fluoranthene	1.116	1.312	1.591	1.313	1.359	1.411	1.510	1.505	1.390	10.762
Benzo[a]pyrene	1.015	1.093	1.154	1.038	1.104	1.036	0.980	0.908	1.041	7.395
Indeno(1,2,3-c,d)pyrene	0.774	0.733	0.600	0.615	0.630	0.574	0.420	0.411	0.595	21.788
Dibenzo[a,h]anthracene	0.737	0.729	0.631	0.624	0.645	0.569	0.416	0.312	0.583	25.481
Benzo[g,h,i]perylene	0.770	0.787	0.698	0.702	0.759	0.694	0.560	0.520	0.686	14.203

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624702.D Vial: 2
Acq On : 24 Jun 2005 12:32 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:57:26 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 14 14:44:50 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 06-24-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.34	152	229823	4.00	ug/mL	-0.12
18) Naphthalene-D8	8.25	136	909703	4.00	ug/mL	-0.12
33) Acenaphthene-d10	11.01	164	473303	4.00	ug/mL	-0.12
55) Phenanthrene-D10	13.39	188	786967	4.00	ug/mL	-0.12
85) Chrysene-D12	17.62	240	417151	4.00	ug/mL	-0.11
93) Perylene-D12	19.73	264	311024	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.62	112	2651167	41.35	ug/mL	-0.10
Spiked Amount 10.000			Recovery = 413.50%			
17) Phenol-d6 (surr)	5.95	99	3492085	37.56	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 375.60%			
32) Nitrobenzene-d5 (surr)	7.20	128	1428493	41.09	ug/mL	-0.11
Spiked Amount 10.000			Recovery = 410.90%			
53) 2-Fluorobiphenyl (surr)	10.00	172	5167657	34.03	ug/mL	-0.11
Spiked Amount 10.000			Recovery = 340.30%			
54) 2,4,6-Tribromophenol (surr	12.30	330	722776	41.08	ug/mL	-0.11
Spiked Amount 10.000			Recovery = 410.80%			
92) 4-Terphenyl-d14 (surr)	16.00	244	4231492	32.85	ug/mL	-0.11
Spiked Amount 10.000			Recovery = 328.50%			
Target Compounds						Qvalue
2) Pyridine	3.16	79	1780492	25.40	ug/mL	87
3) N-Nitrosodimethylamine	3.25	74	588084	13.08	ug/mL#	60
4) Phenol	5.97	94	3984006	38.88	ug/mL	98
5) Bis(2-chloroethyl)ether	6.04	93	3260432	38.39	ug/mL	100
6) 2-Chlorophenol	6.07	128	3229429	40.88	ug/mL	97
7) Benzyl Alcohol	6.63	108	2199416	42.21	ug/mL	97
8) 1,3-Dichlorobenzene	6.26	146	3267781	36.92	ug/mL	99
9) 1,4-Dichlorobenzene	6.37	146	3297047	36.28	ug/mL	100
10) 1,2-Dichlorobenzene	6.58	146	2969233	36.93	ug/mL	99
11) 2-Methylphenol	6.81	107	2100834	35.55	ug/mL#	93
12) 3-, 4-Methylphenol	7.07	107	2686749	31.85	ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.79	45	3663166	27.99	ug/mL#	83
14) N-Nitrosodi-n-propylamine	7.03	70	1586496m	32.16	ug/mL	
15) Hexachloroethane	7.06	117	833214	27.01	ug/mL	92
19) Nitrobenzene	7.23	77	2754376	35.40	ug/mL	99
20) Isophorone	7.62	82	4601127m	35.31	ug/mL	
21) 2-Nitrophenol	7.70	139	1867769	39.27	ug/mL	94
22) 2,4-Dimethylphenol	7.85	122	2604540	48.40	ug/mL	99
23) Benzoic Acid	8.27	122	1970045m	43.90	ug/mL	
24) Bis(2-chloroethoxy)methane	7.97	93	3183972	35.60	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624702.D Vial: 2
Acq On : 24 Jun 2005 12:32 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:57:26 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 14 14:44:50 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.09	162	2413717	40.52 ug/mL	98
26) 1,2,4-Trichlorobenzene	8.18	180	2431486	35.79 ug/mL	99
27) Naphthalene	8.29	128	7395011	33.67 ug/mL	100
28) 4-Chloroaniline	8.45	127	1818864	35.87 ug/mL	99
29) Hexachlorobutadiene	8.50	225	1145403	34.71 ug/mL	99
30) 4-Chloro-3-methylphenol	9.25	107	2396552	40.49 ug/mL	99
31) 2-Methylnaphthalene	9.38	142	5477638	35.57 ug/mL	100
34) Hexachlorocyclopentadiene	9.63	237	534995	22.44 ug/mL	99
35) 2,4,6-Trichlorophenol	9.86	196	1709680	37.77 ug/mL	98
36) 2,4,5-Trichlorophenol	9.93	196	1815153	38.56 ug/mL	99
37) 2-Chloronaphthalene	10.15	162	4701145	33.70 ug/mL	98
38) 2-Nitroaniline	10.37	65	1570497	37.87 ug/mL	92
39) 3-Nitroaniline	11.05	138	898766	42.47 ug/mL#	93
40) 1-Methylnaphthalene	9.54	142	5012635	33.06 ug/mL	100
41) Dimethylphthalate	10.71	163	5826399	36.60 ug/mL	100
42) Acenaphthylene	10.79	152	6248973	28.78 ug/mL	100
43) 2,6-Dinitrotoluene	10.78	165	1152102	32.52 ug/mL	94
44) Acenaphthene	11.08	153	4573512	32.04 ug/mL	99
45) 2,4-Dinitrophenol	11.22	184	786790	35.22 ug/mL	99
46) 4-Nitrophenol	11.42	109	643777	40.85 ug/mL	98
47) Dibenzofuran	11.37	168	7017009	36.23 ug/mL	99
48) 2,4-Dinitrotoluene	11.43	165	1631583	36.73 ug/mL	91
49) Fluorene	11.91	166	5124801	33.70 ug/mL	99
50) Diethylphthalate	11.85	149	5347751	34.24 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	11.94	204	2451701	33.84 ug/mL	99
52) 4-Nitroaniline	12.05	138	693207	34.79 ug/mL	97
56) 4,6-Dinitro-2-methylphenol	12.08	198	1030385	35.52 ug/mL	93
57) Diphenylamine	12.16	169	2161590	22.97 ug/mL	99
58) 4-bromophenyl phenyl ether	12.73	248	1230826	28.35 ug/mL	97
59) Hexachlorobenzene	12.79	284	1433744	32.52 ug/mL	96
60) Pentachlorophenol	13.14	266	1066087	36.23 ug/mL	99
61) Phenanthrene	13.44	178	7772146	32.04 ug/mL	99
62) Carbazole	13.81	167	4198140	31.19 ug/mL	100
63) Anthracene	13.52	178	7455310	32.39 ug/mL	100
64) Azobenzene	12.20	77	5213932	29.68 ug/mL	97
65) Di-n-Butylphthalate	14.46	149	8859379	31.14 ug/mL	99
66) Fluoranthene	15.33	202	7637773	34.96 ug/mL	96
67) alpha-BHC	12.74	183	844793	28.45 ug/mL	82
68) beta-BHC	13.12	181	733830	28.80 ug/mL	94
69) gamma-BHC	13.20	183	801385	31.02 ug/mL	99
70) delta-BHC	13.59	183	761065	31.47 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624702.D Vial: 2
Acq On : 24 Jun 2005 12:32 pm Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 12:57:26 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 14 14:44:50 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.19	100	795296	24.75 ug/mL	90
72)	Aldrin	14.67	66	742674	24.52 ug/mL	88
73)	Heptachlor Epoxide	15.19	353	431759	35.66 ug/mL	99
74)	Endosulfan I	15.69	195	180239	25.36 ug/mL	97
75)	4,4'-DDE	15.93	246	1451270	32.07 ug/mL	100
76)	Dieldrin	16.02	79	794857	19.96 ug/mL#	90
77)	Endrin	16.02	263	193044	27.36 ug/mL	91
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.46	235	2827905	35.70 ug/mL	100
80)	Endosulfan Sulfate	16.91	272	352652	33.75 ug/mL	96
81)	4,4'-DDT	16.93	235	1803797	27.81 ug/mL	99
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.51	317	320720	42.19 ug/mL	99
84)	Methoxychlor	17.60	227	3204468	25.25 ug/mL	83
86)	Pyrene	15.70	202	5962656m	30.11 ug/mL	
87)	Butylbenzylphthalate	16.84	149	3815003	37.53 ug/mL	94
88)	Benzo[a]anthracene	17.62	228	5326665	33.72 ug/mL	99
89)	3,3'-Dichlorobenzidine	17.63	252	1180117	52.48 ug/mL#	95
90)	Chrysene	17.68	228	5325451	40.29 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	17.80	149	5140652	40.22 ug/mL	99
94)	Di-n-octylphthalate	18.79	149	8559241	41.02 ug/mL	100
95)	Benzo[b]fluoranthene	19.22	252	5129038	42.74 ug/mL	100
96)	Benzo[k]fluoranthene	19.26	252	4165670m	34.88 ug/mL	
97)	Benzo[a]pyrene	19.67	252	3787975	42.01 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	21.56	276	2888312m	43.18 ug/mL	
99)	Dibenzo[a,h]anthracene	21.61	278	2749226	44.42 ug/mL	99
100)	Benzo[g,h,i]perylene	22.10	276	2874754	48.19 ug/mL	98

(#) = qualifier out of range (m) = manual integration

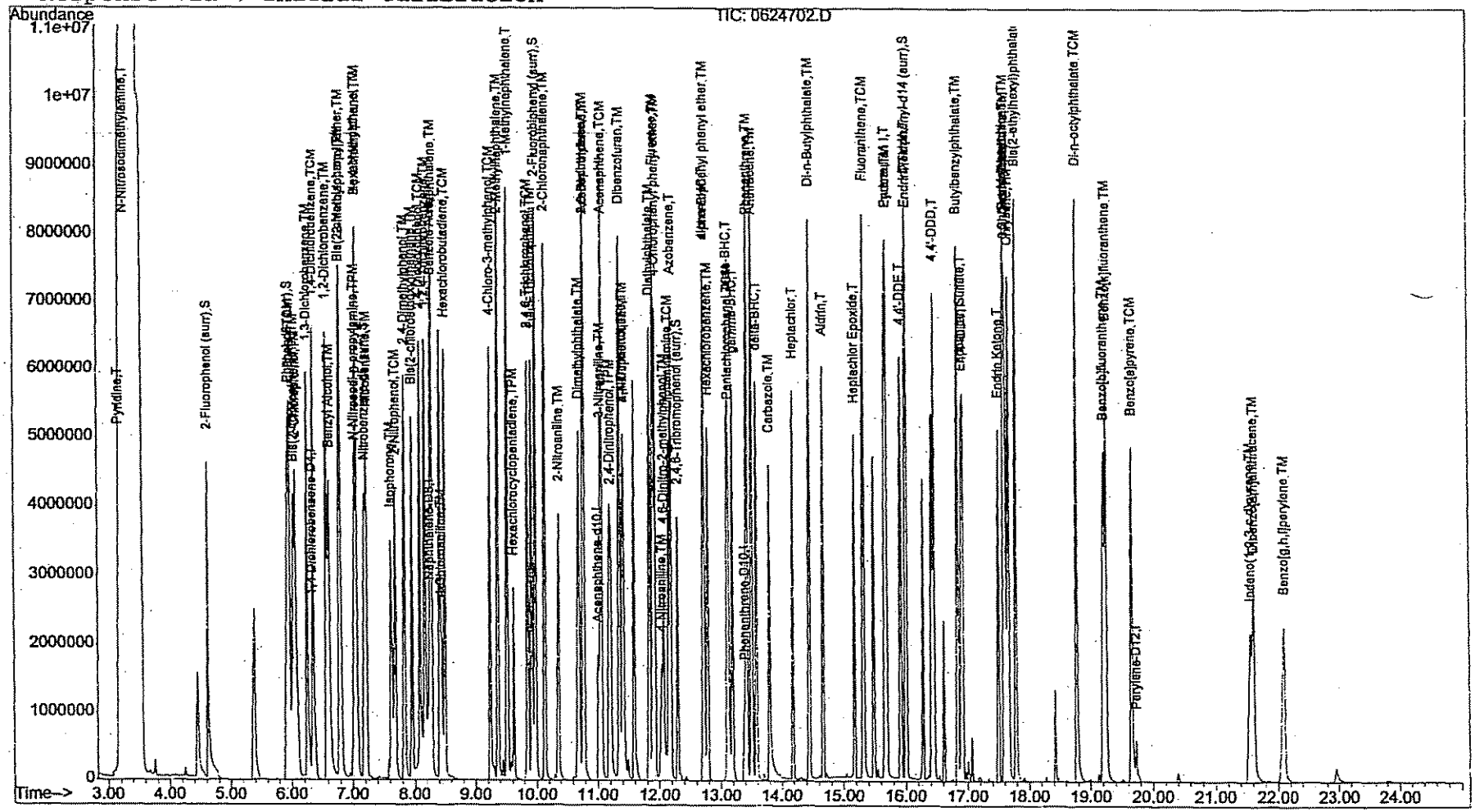
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624702.D
Acq On : 24 Jun 2005 12:32 pm
Sample : SVCAL48
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 24 14:05 2005

Vial: 2
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 17:11:55 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.07	162	347533	6.45	ug/mL	99
26) 1,2,4-Trichlorobenzene	8.16	180	363335	6.59	ug/mL	95
27) Naphthalene	8.27	128	1178364	6.77	ug/mL	99
28) 4-Chloroaniline	8.48	127	96422m	2.95	ug/mL	
29) Hexachlorobutadiene	8.49	225	178770	6.72	ug/mL	99
30) 4-Chloro-3-methylphenol	9.22	107	342553	6.38	ug/mL	98
31) 2-Methylnaphthalene	9.36	142	907010	6.92	ug/mL	100
34) Hexachlorocyclopentadiene	9.62	237	54745	5.21	ug/mL	97
35) 2,4,6-Trichlorophenol	9.84	196	236241	6.43	ug/mL	99
36) 2,4,5-Trichlorophenol	9.91	196	270818	6.88	ug/mL	98
37) 2-Chloronaphthalene	10.12	162	712362	6.79	ug/mL	97
38) 2-Nitroaniline	10.34	65	186295	5.93	ug/mL	99
39) 3-Nitroaniline	11.04	138	17395	1.87	ug/mL#	90
40) 1-Methylnaphthalene	9.51	142	821945	7.03	ug/mL	98
41) Dimethylphthalate	10.66	163	794862	6.51	ug/mL	100
42) Acenaphthylene	10.77	152	1079821	7.31	ug/mL	99
43) 2,6-Dinitrotoluene	10.74	165	178052	6.64	ug/mL	97
44) Acenaphthene	11.05	153	723323	6.93	ug/mL	100
45) 2,4-Dinitrophenol	11.19	184	98819	6.20	ug/mL	93
46) 4-Nitrophenol	11.39	109	64168	5.25	ug/mL#	82
47) Dibenzofuran	11.34	168	1079778	6.87	ug/mL	100
48) 2,4-Dinitrotoluene	11.38	165	228242	6.57	ug/mL	97
49) Fluorene	11.88	166	792877	6.87	ug/mL	99
50) Diethylphthalate	11.80	149	796137	6.77	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.92	204	373214	6.76	ug/mL	99
52) 4-Nitroaniline	12.04	138	79516m	5.96	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.02	198	127603	6.10	ug/mL#	91
57) Diphenylamine	12.12	169	358966	8.25	ug/mL	99
58) 4-bromophenyl phenyl ether	12.69	248	208391	7.17	ug/mL	95
59) Hexachlorobenzene	12.76	284	205958	6.68	ug/mL	97
60) Pentachlorophenol	13.11	266	106864	5.25	ug/mL	97
61) Phenanthrene	13.40	178	1182796	6.86	ug/mL	100
62) Carbazole	13.80	167	341893	6.43	ug/mL	99
63) Anthracene	13.48	178	1149796	6.91	ug/mL	100
64) Azobenzene	12.17	77	796618	6.93	ug/mL	96
65) Di-n-Butylphthalate	14.43	149	1397704	6.95	ug/mL	99
66) Fluoranthene	15.30	202	1104704	6.72	ug/mL	96
67) alpha-BHC	12.70	183	141175	7.15	ug/mL	98
68) beta-BHC	13.07	181	122026	6.95	ug/mL	96
69) gamma-BHC	13.17	183	122508	6.81	ug/mL	99
70) delta-BHC	13.57	183	114617	6.82	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) Heptachlor	14.17	100	150173	7.42 ug/mL	92
72) Aldrin	14.65	66	143189	7.51 ug/mL	89
73) Heptachlor Epoxide	15.17	353	60432	6.45 ug/mL	100
74) Endosulfan I	15.65	195	38563	8.13 ug/mL	89
75) 4,4'-DDE	15.90	246	232367	6.92 ug/mL	99
76) Dieldrin	15.99	79	193487	8.06 ug/mL	93
77) Endrin	15.99	263	35374	7.19 ug/mL	79
78) Endosulfan II	0.00	35	0	N.D.	
79) 4,4'-DDD	16.44	235	422201	6.67 ug/mL	99
80) Endosulfan Sulfate	16.88	272	57673	7.28 ug/mL	92
81) 4,4'-DDT	16.91	235	311209	7.43 ug/mL	99
82) Endrin Aldehyde	0.00	35	0	N.D.	
83) Endrin Ketone	17.48	317	44337	6.65 ug/mL	98
84) Methoxychlor	17.57	227	603785	7.72 ug/mL	92
86) Pyrene	15.65	202	1077914	6.91 ug/mL	98
87) Butylbenzylphthalate	16.81	149	586668	6.26 ug/mL	96
88) Benzo[a]anthracene	17.58	228	853085	6.51 ug/mL	98
89) 3,3'-Dichlorobenzidine	17.61	252	97331	4.76 ug/mL	97
90) Chrysene	17.63	228	787713	6.44 ug/mL	99
91) Bis(2-ethylhexyl)phthalate	17.77	149	834891	6.43 ug/mL	99
94) Di-n-octylphthalate	18.76	149	1350388	5.69 ug/mL	100
95) Benzo[b]fluoranthene	19.18	252	663938	5.79 ug/mL	98
96) Benzo[k]fluoranthene	19.22	252	677971	6.12 ug/mL	99
97) Benzo[a]pyrene	19.63	252	550780	6.16 ug/mL	99
98) Indeno(1,2,3-c,d)pyrene	21.51	276	314321m	5.55 ug/mL	
99) Dibenzo[a,h]anthracene	21.57	278	321680	5.69 ug/mL	100
100) Benzo[g,h,i]perylene	22.04	276	378448	6.16 ug/mL	99

(#) = qualifier out of range (m) = manual integration

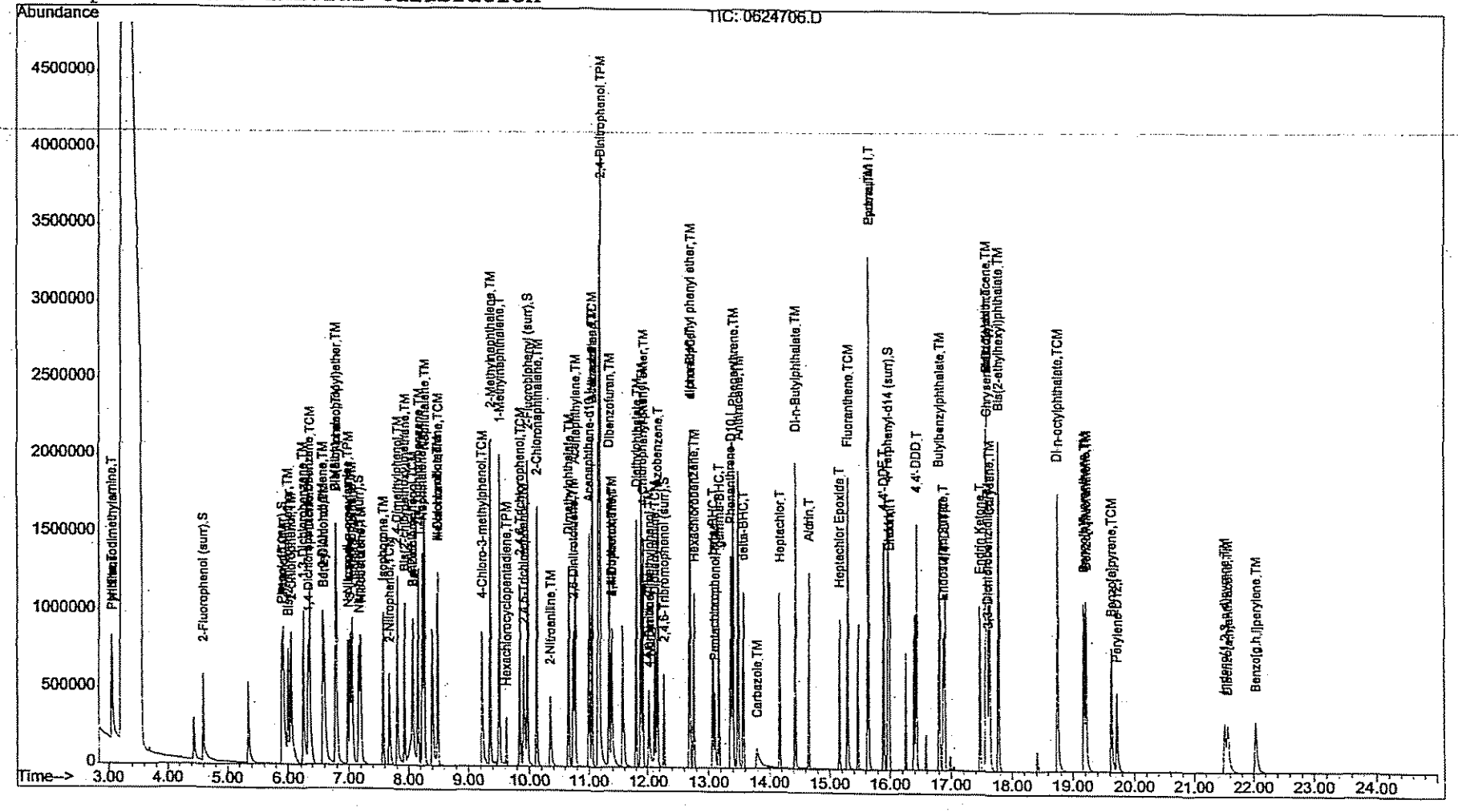
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D
Acq On : 24 Jun 2005 2:49 pm
Sample : SVCAL6
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005

Vial: 6
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

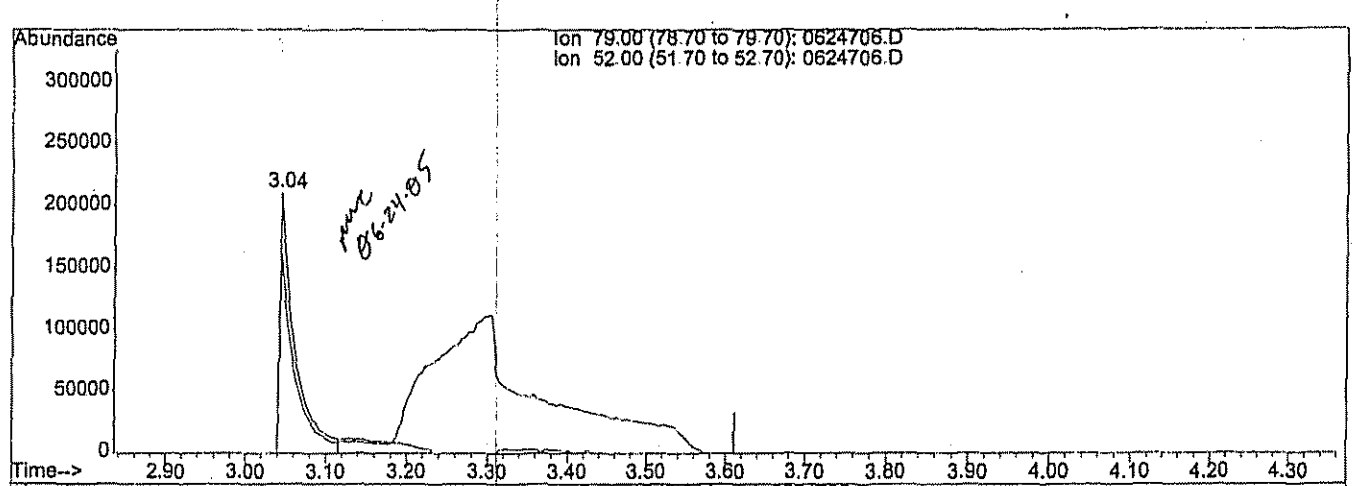
Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 17:11:55 2005
Response via : Initial Calibration

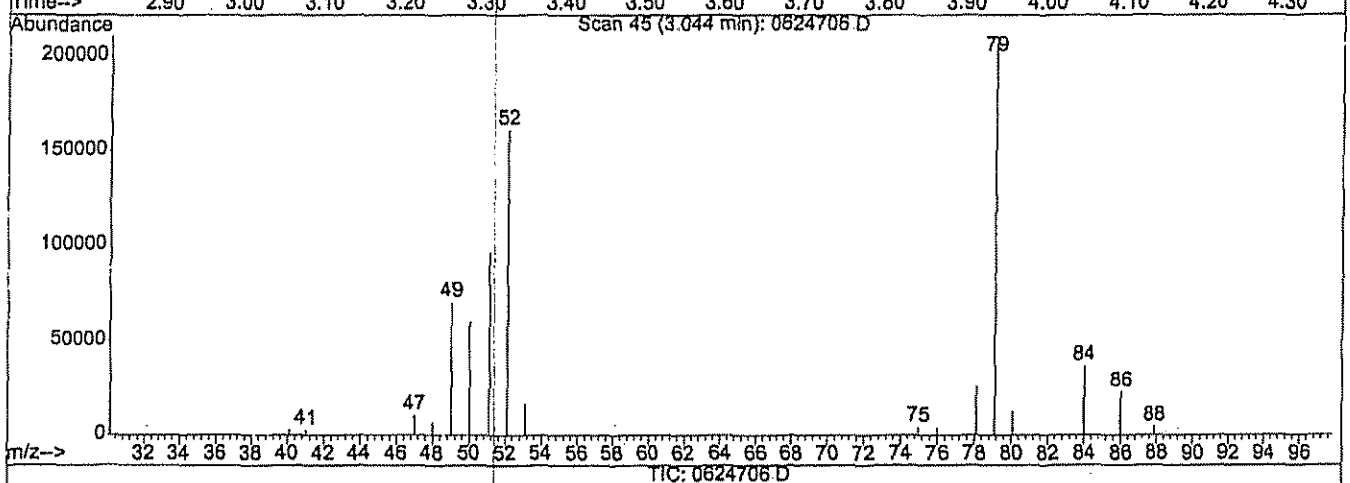


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





(2) Pyridine (T)

3.04min 6.13ug/mL m

response 269200

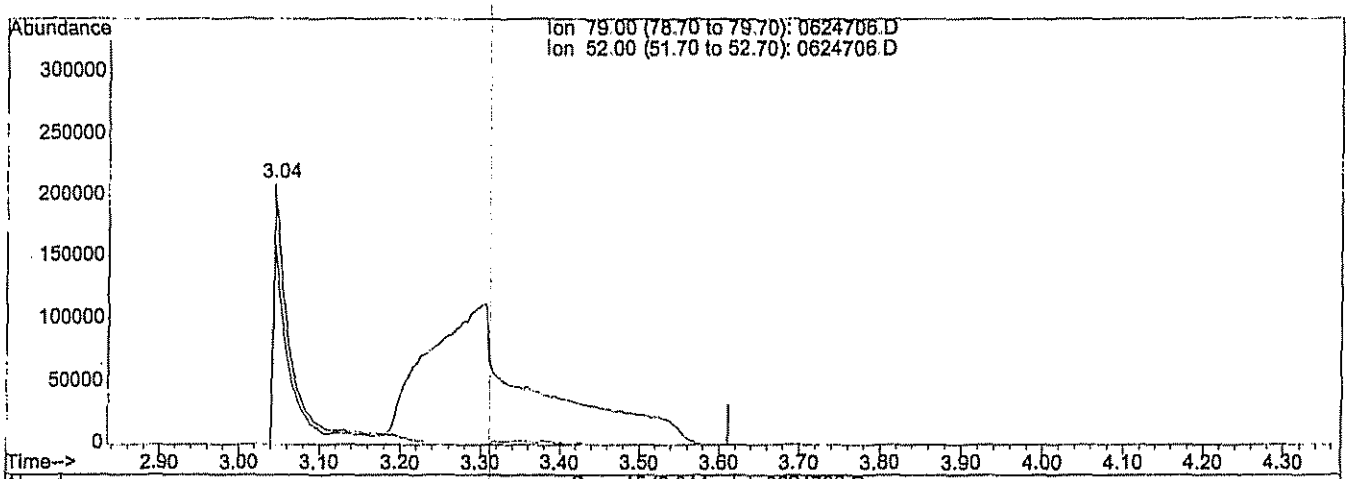
Ion	Exp%	Act%
79.00	100	100
52.00	73.40	76.51
0.00	0.00	0.00
0.00	0.00	0.00

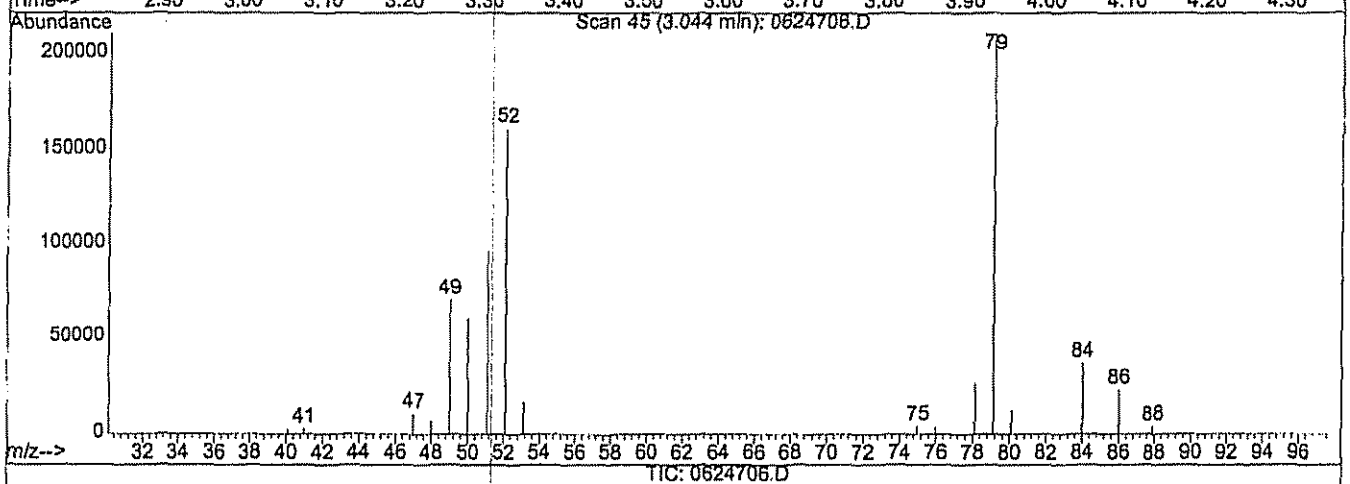
0624706.D 8270.M Fri Jun 24 15:32:42 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(2) Pyridine (T)

3.04min 7.41ug/mL

response 325051

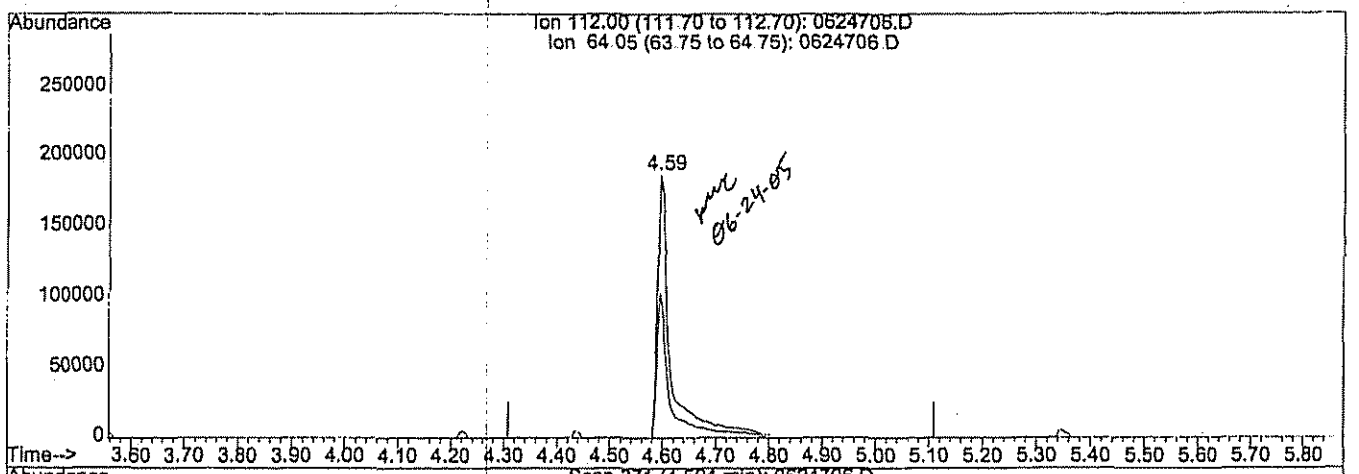
Ion	Exp%	Act%
79.00	100	100
52.00	73.40	63.37
0.00	0.00	0.00
0.00	0.00	0.00

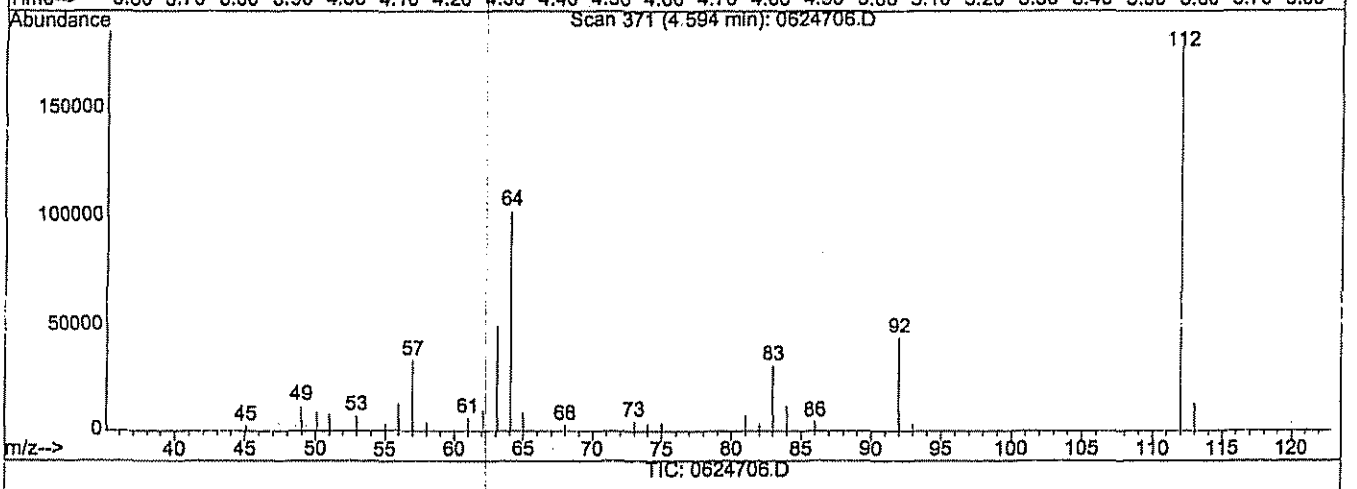
0624706.D 8270.M Fri Jun 24 15:32:38 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

4.59min 6.15ug/mL m

response 337742

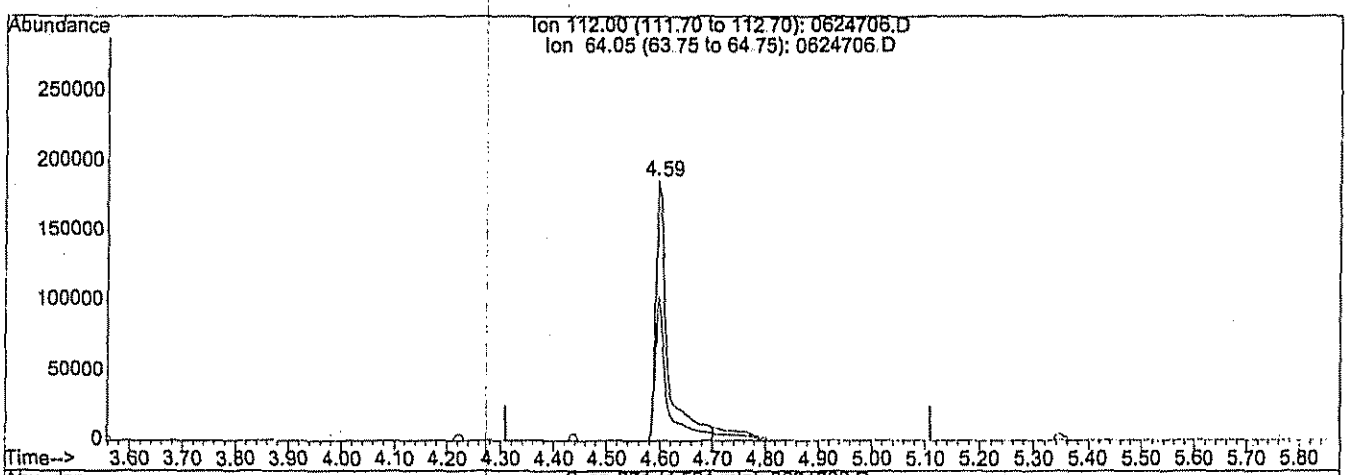
Ion	Exp%	Act%
112.00	100	100
64.05	50.20	54.70
0.00	0.00	0.00
0.00	0.00	0.00

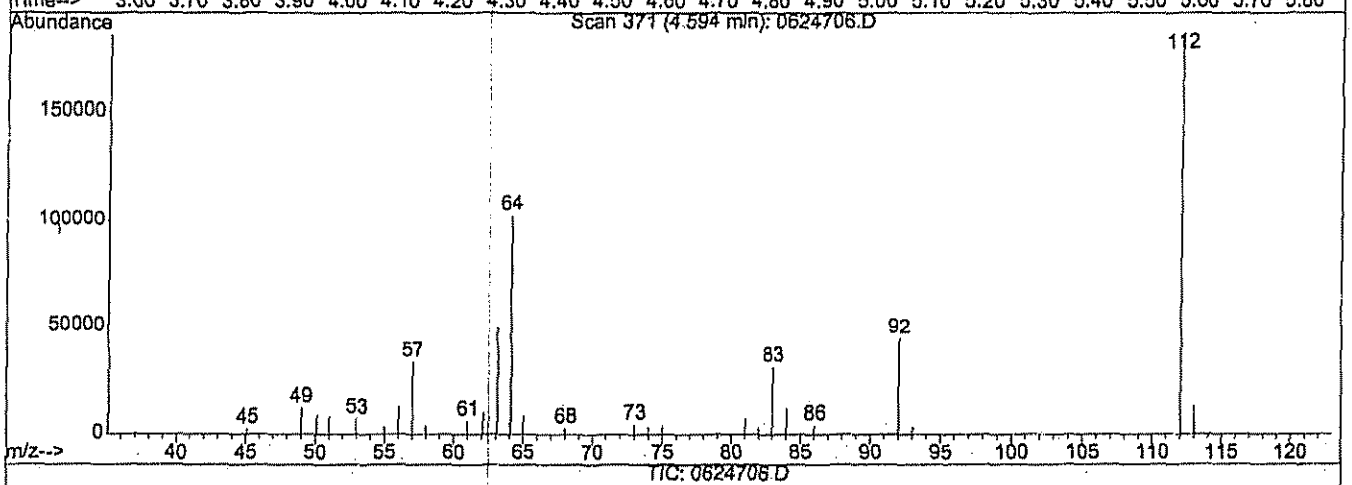
0624706.D 8270.M Fri Jun 24 15:32:58 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(16) 2-Fluorophenol (surr) (S)

4.59min 5.51ug/mL

response 302920

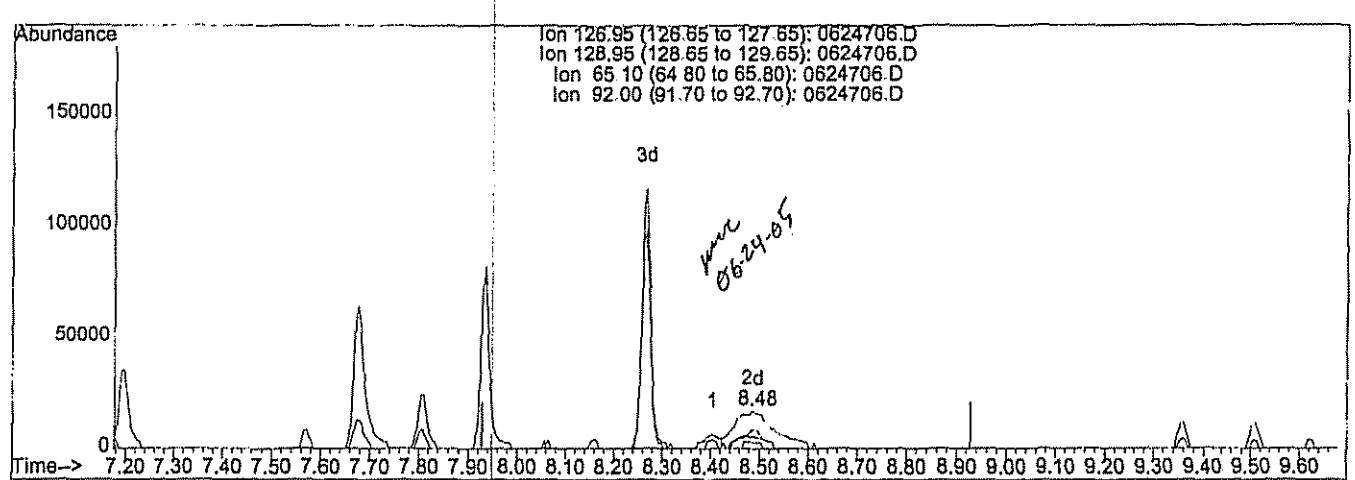
Ion	Exp%	Act%
112.00	100	100
64.05	50.20	60.98#
0.00	0.00	0.00
0.00	0.00	0.00

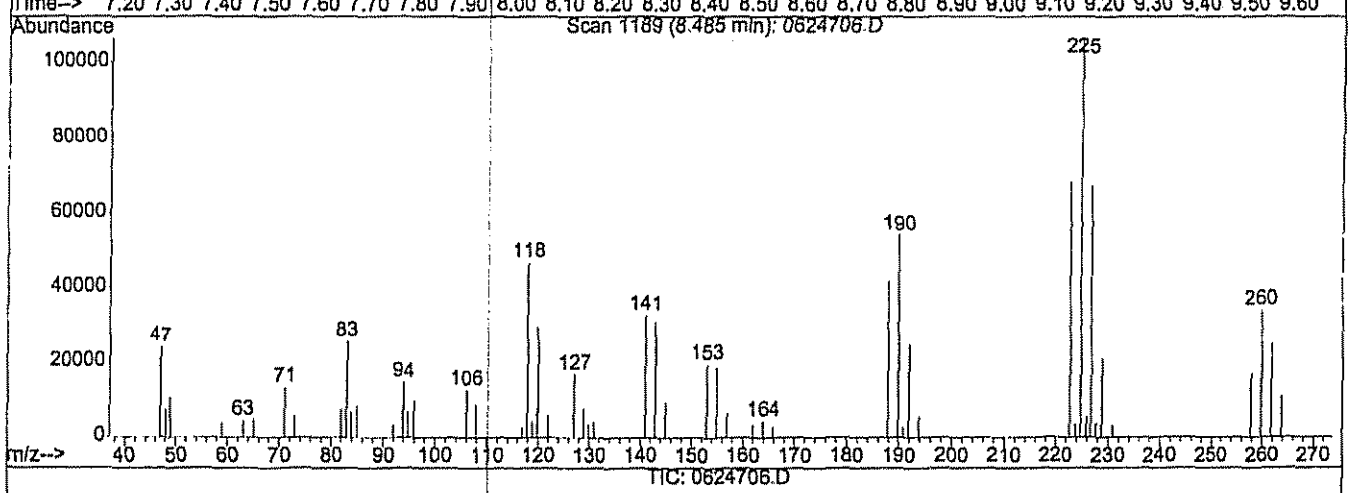
0624706.D 8270.M Fri Jun 24 15:32:54 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(28) 4-Chloroaniline (TM)

8.48min 2.95ug/mL m

response 96422

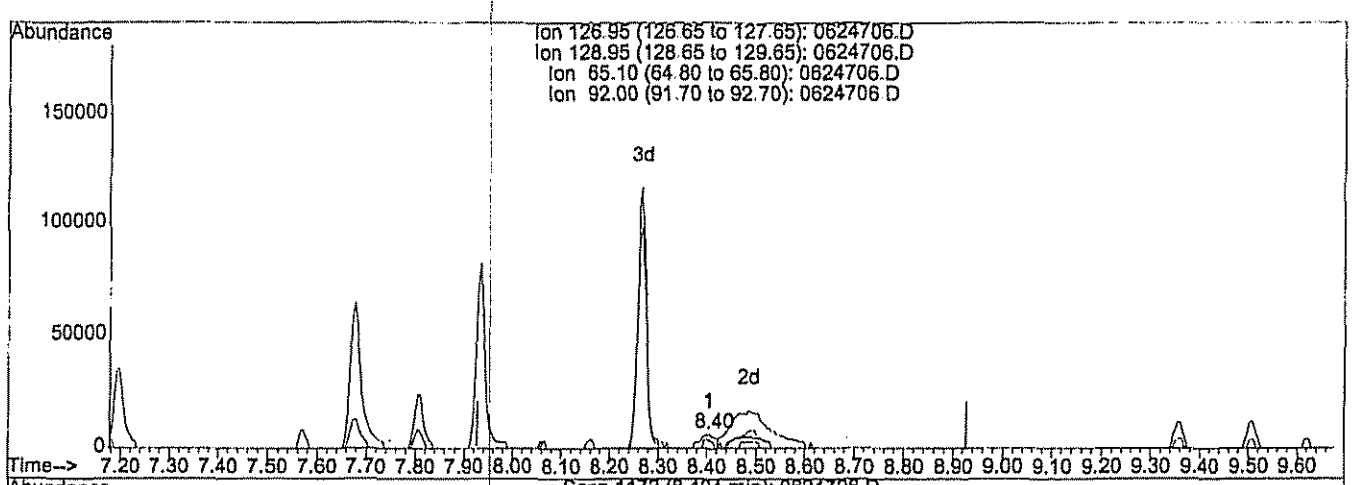
Ion	Exp%	Act%
126.95	100	100
128.95	31.80	45.61#
65.10	28.40	28.71
92.00	16.90	18.18

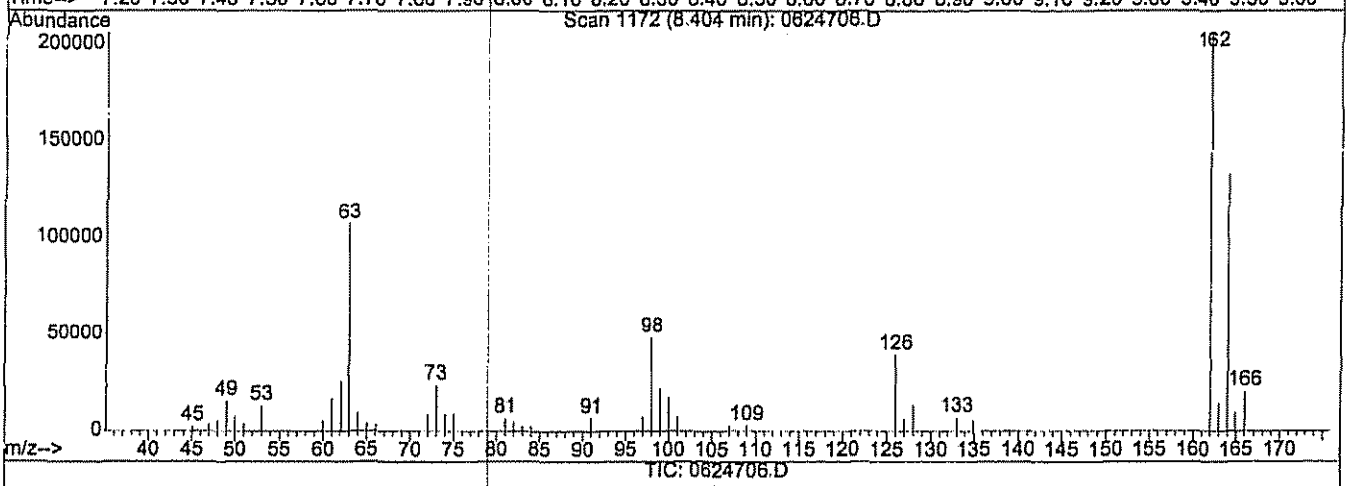
0624706.D 8270.M Fri Jun 24 15:33:11 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:32 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(28) 4-Chloroaniline (TM)

8.40min 0.43ug/mL

response 13967

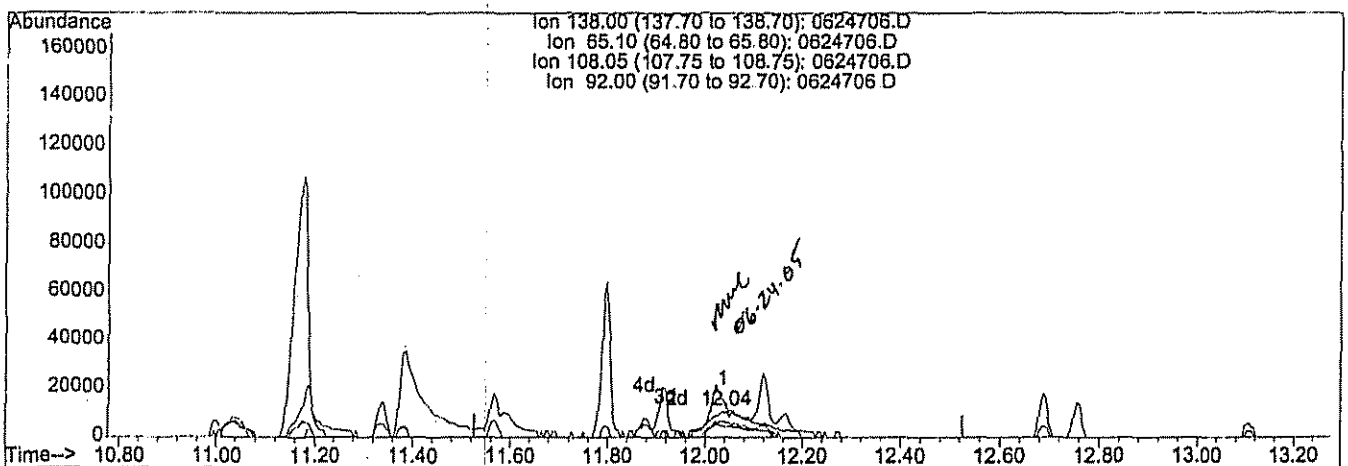
Ion	Exp%	Act%
126.95	100	100
128.95	31.80	0.00#
65.10	28.40	61.62#
92.00	16.90	0.00#

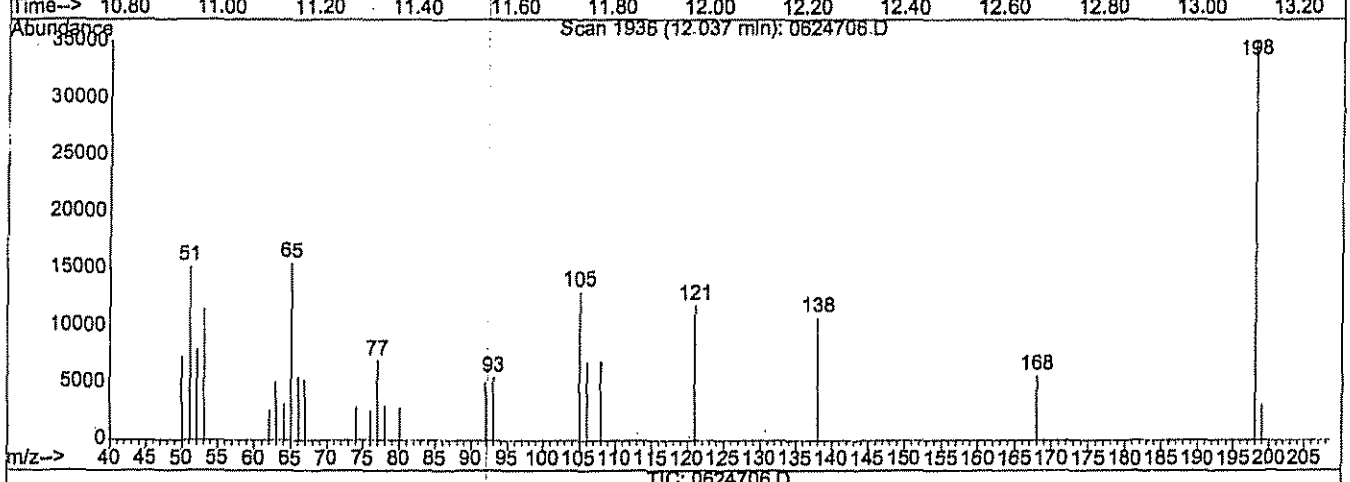
0624706.D 8270.M Fri Jun 24 15:33:06 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(52) 4-Nitroaniline (TM)

12.04min 5.96ug/mL m

response 79516

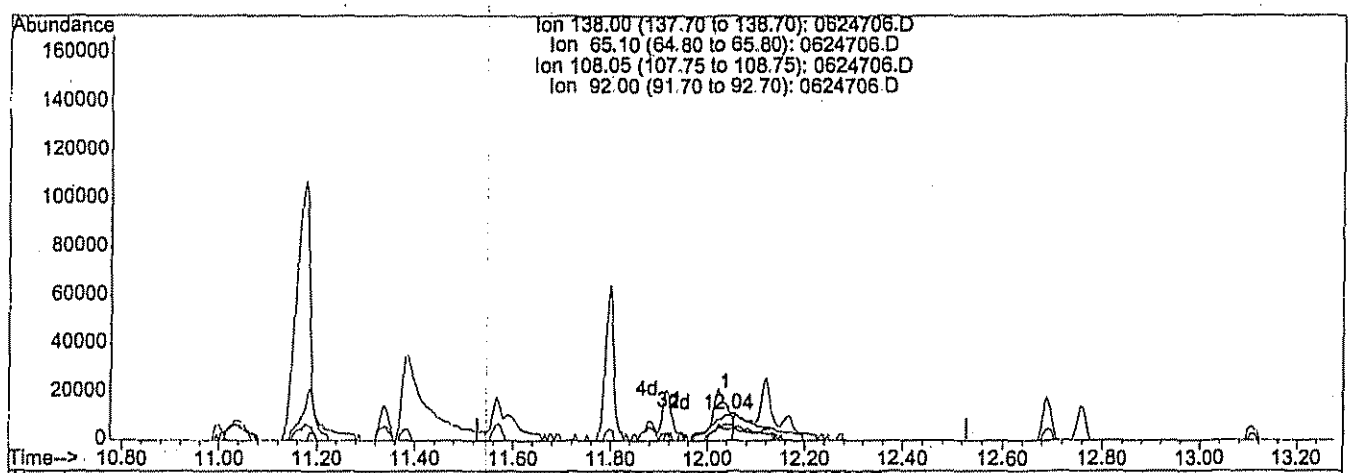
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	143.41#
108.05	58.50	63.78
92.00	43.90	46.87

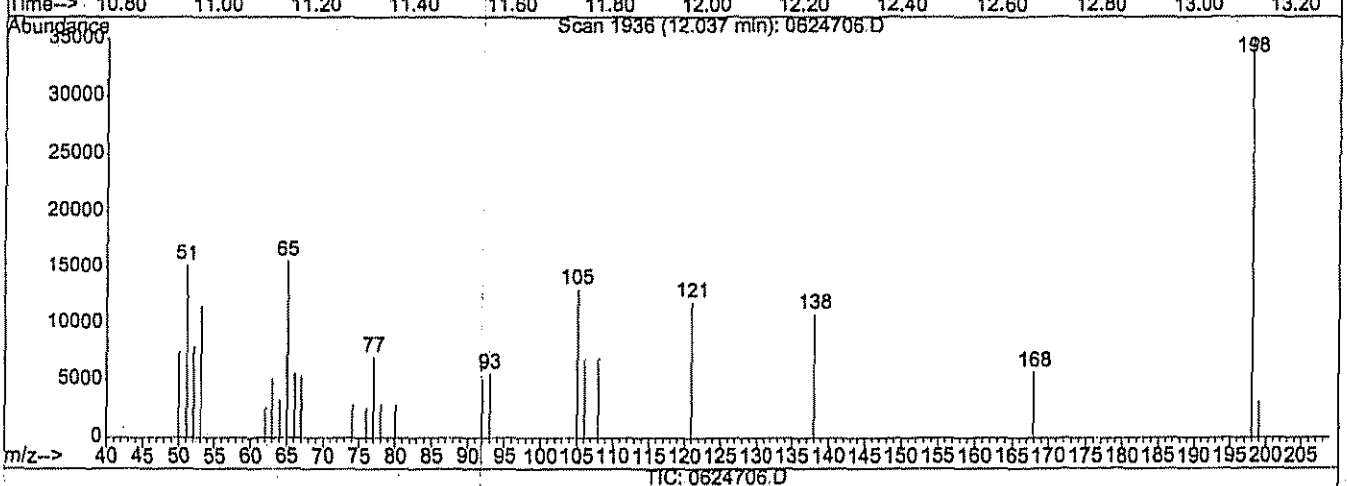
0624706.D 8270.M Fri Jun 24 15:33:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





TIC: 0624706.D

(52) 4-Nitroaniline (TM)

12.04min 2.47ug/mL

response 32911

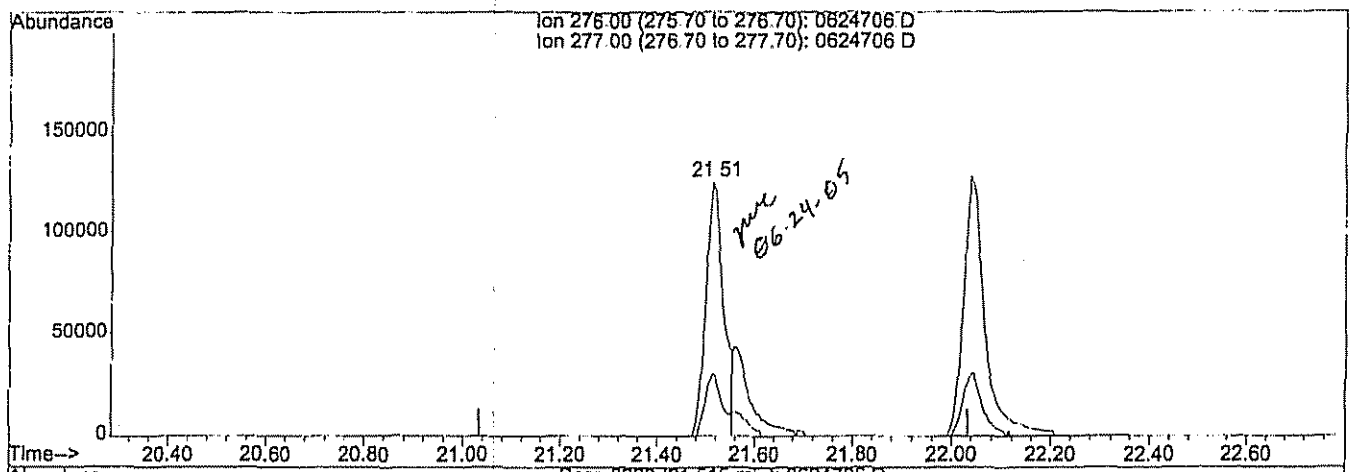
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	143.41#
108.05	58.50	63.78
92.00	43.90	46.87

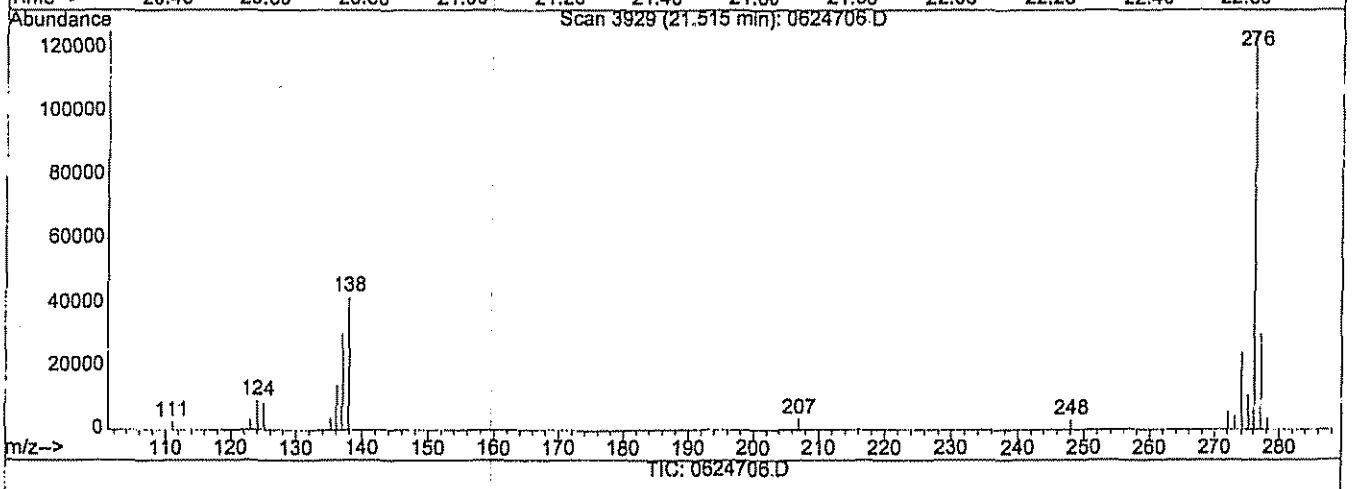
0624706.D 8270.M Fri Jun 24 15:33:25 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 5.55ug/mL m

response 314321

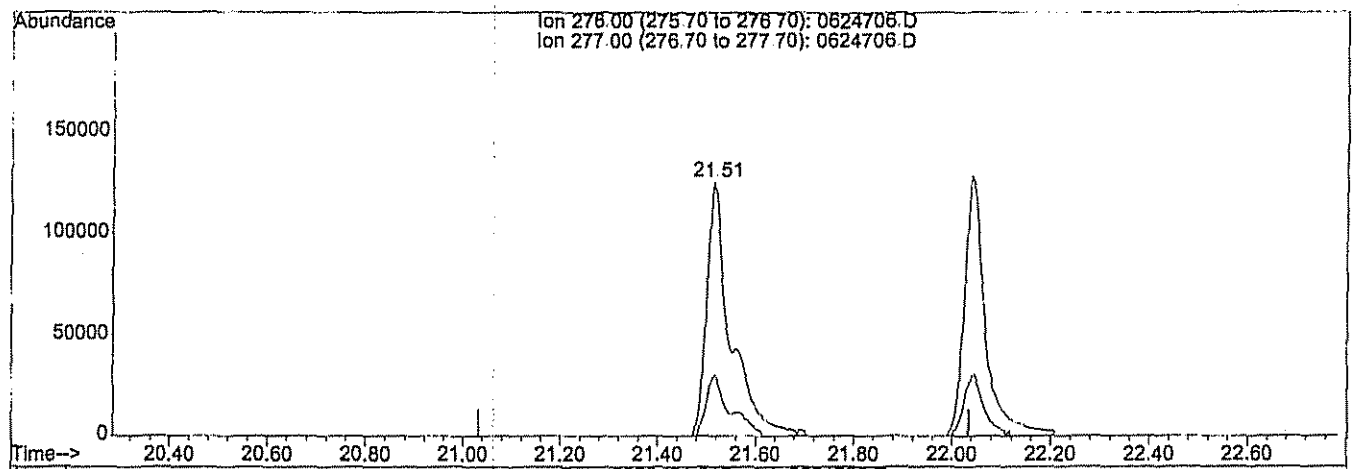
Ion	Exp%	Act%
276.00	100	100
277.00	23.30	24.25
0.00	0.00	0.00
0.00	0.00	0.00

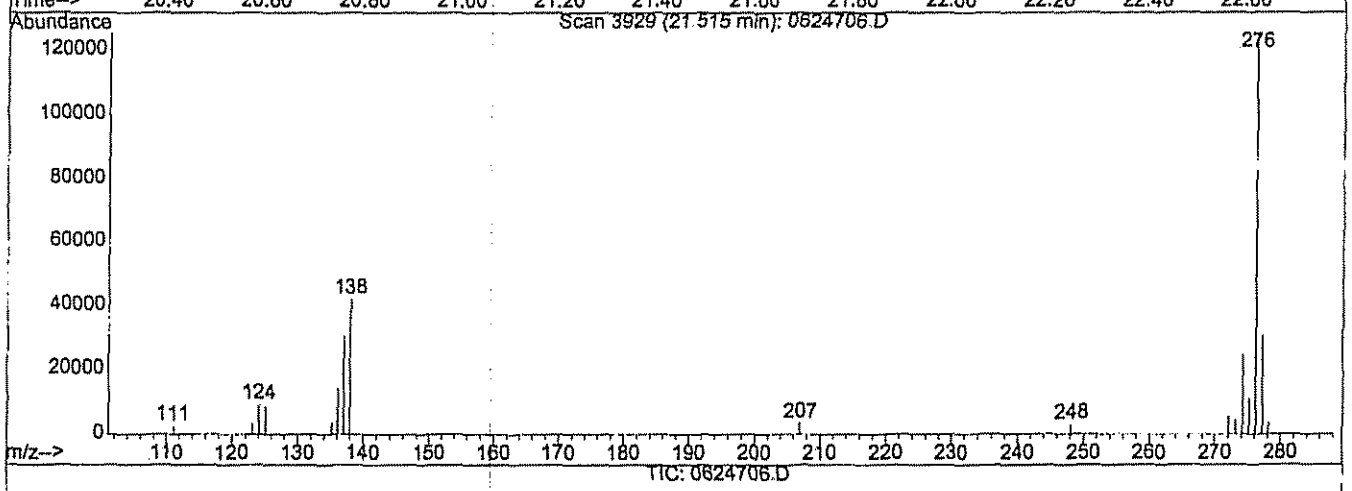
0624706.D 8270.M Fri Jun 24 15:34:01 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624706.D Vial: 6
Acq On : 24 Jun 2005 2:49 pm Operator: MRC
Sample : SVCAL6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:32:19 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 7.54ug/mL

response 426614

Ion	Exp%	Act%
276.00	100	100
277.00	23.30	24.25
0.00	0.00	0.00
0.00	0.00	0.00

0624706.D 8270.M Fri Jun 24 15:33:54 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:48:49 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 06-24-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.33	152	220759	4.00	ug/mL	0.00
18) Naphthalene-D8	8.23	136	900591	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.00	164	446124	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.36	188	714839	4.00	ug/mL	-0.01
85) Chrysene-D12	17.59	240	449838	4.00	ug/mL	-0.02
93) Perylene-D12	19.71	264	325115	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.59	112	199292	3.70	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	37.00%	
17) Phenol-d6 (surr)	5.90	99	306864	4.06	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	40.60%	
32) Nitrobenzene-d5 (surr)	7.16	128	117000	3.89	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	38.90%	
53) 2-Fluorobiphenyl (surr)	9.97	172	520717	4.36	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	43.60%	
54) 2,4,6-Tribromophenol (surr	12.27	330	54410	3.71	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	37.10%	
92) 4-Terphenyl-d14 (surr)	15.97	244	448369	4.04	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	40.40%	
Target Compounds						Qvalue
2) Pyridine	3.03	79	167566	3.89	ug/mL	97
3) N-Nitrosodimethylamine	3.04	74	130400	4.55	ug/mL	93
4) Phenol	5.92	94	364256	4.16	ug/mL	97
5) Bis(2-chloroethyl)ether	6.00	93	267833	4.01	ug/mL	97
6) 2-Chlorophenol	6.04	128	279150	4.07	ug/mL	98
7) Benzyl Alcohol	6.58	108	164391	3.71	ug/mL	95
8) 1,3-Dichlorobenzene	6.24	146	291994	4.12	ug/mL	99
9) 1,4-Dichlorobenzene	6.35	146	311334	4.22	ug/mL	98
10) 1,2-Dichlorobenzene	6.57	146	277305	4.21	ug/mL	100
11) 2-Methylphenol	6.78	107	218034	4.40	ug/mL	94
12) 3-, 4-Methylphenol	7.02	107	309408	4.38	ug/mL	96
13) Bis(2-chloroisopropyl)ethe	6.78	45	413705	4.58	ug/mL#	92
14) N-Nitrosodi-n-propylamine	6.98	70	143085	4.09	ug/mL	96
15) Hexachloroethane	7.05	117	103744	4.56	ug/mL	91
19) Nitrobenzene	7.19	77	259824	4.20	ug/mL	98
20) Isophorone	7.57	82	390808	4.06	ug/mL	100
21) 2-Nitrophenol	7.68	139	150296	3.78	ug/mL	98
22) 2,4-Dimethylphenol	7.80	122	231483	4.04	ug/mL	98
23) Benzoic Acid	8.03	122	105435	2.95	ug/mL#	20
24) Bis(2-chloroethoxy)methane	7.93	93	297365	4.15	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:48:49 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.07	162	213921	3.97 ug/mL	97
26) 1,2,4-Trichlorobenzene	8.16	180	231793	4.18 ug/mL	99
27) Naphthalene	8.26	128	758846	4.31 ug/mL	99
28) 4-Chloroaniline	8.47	127	56479m	1.95 ug/mL	
29) Hexachlorobutadiene	8.49	225	116063	4.32 ug/mL	97
30) 4-Chloro-3-methylphenol	9.22	107	213330	3.98 ug/mL	97
31) 2-Methylnaphthalene	9.35	142	585238	4.39 ug/mL	99
34) Hexachlorocyclopentadiene	9.62	237	28885	2.86 ug/mL	98
35) 2,4,6-Trichlorophenol	9.84	196	146842	4.00 ug/mL	100
36) 2,4,5-Trichlorophenol	9.91	196	166603	4.17 ug/mL	99
37) 2-Chloronaphthalene	10.12	162	456264	4.30 ug/mL	97
38) 2-Nitroaniline	10.34	65	117238	3.79 ug/mL	97
39) 3-Nitroaniline	11.03	138	10238	1.29 ug/mL#	87
40) 1-Methylnaphthalene	9.51	142	532941	4.47 ug/mL	99
41) Dimethylphthalate	10.66	163	503456	4.11 ug/mL	99
42) Acenaphthylene	10.77	152	695451	4.57 ug/mL	100
43) 2,6-Dinitrotoluene	10.73	165	108495	4.02 ug/mL	96
44) Acenaphthene	11.05	153	465515	4.38 ug/mL	99
45) 2,4-Dinitrophenol	11.19	184	59517	3.76 ug/mL#	89
46) 4-Nitrophenol	11.39	109	36016	3.06 ug/mL#	75
47) Dibenzofuran	11.34	168	685275	4.29 ug/mL	100
48) 2,4-Dinitrotoluene	11.38	165	142270	4.07 ug/mL	90
49) Fluorene	11.88	166	502702	4.29 ug/mL	100
50) Diethylphthalate	11.79	149	506593	4.26 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.91	204	239741	4.29 ug/mL	97
52) 4-Nitroaniline	12.04	138	45783m	3.48 ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.02	198	72377	3.53 ug/mL#	91
57) Diphenylamine	12.12	169	248051	5.42 ug/mL	98
58) 4-bromophenyl phenyl ether	12.69	248	130371	4.42 ug/mL	95
59) Hexachlorobenzene	12.76	284	127918	4.15 ug/mL#	92
60) Pentachlorophenol	13.11	266	55650	2.87 ug/mL	99
61) Phenanthrene	13.40	178	755295	4.35 ug/mL	100
62) Carbazole	13.79	167	271708	5.16 ug/mL#	95
63) Anthracene	13.48	178	720190	4.30 ug/mL	99
64) Azobenzene	12.16	77	521672	4.50 ug/mL	95
65) Di-n-Butylphthalate	14.42	149	883442	4.36 ug/mL	99
66) Fluoranthene	15.29	202	692509	4.21 ug/mL	95
67) alpha-BHC	12.69	183	91874	4.58 ug/mL	99
68) beta-BHC	13.07	181	76990	4.35 ug/mL	97
69) gamma-BHC	13.17	183	78731	4.36 ug/mL	99
70) delta-BHC	13.57	183	71111	4.21 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 15:48:49 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

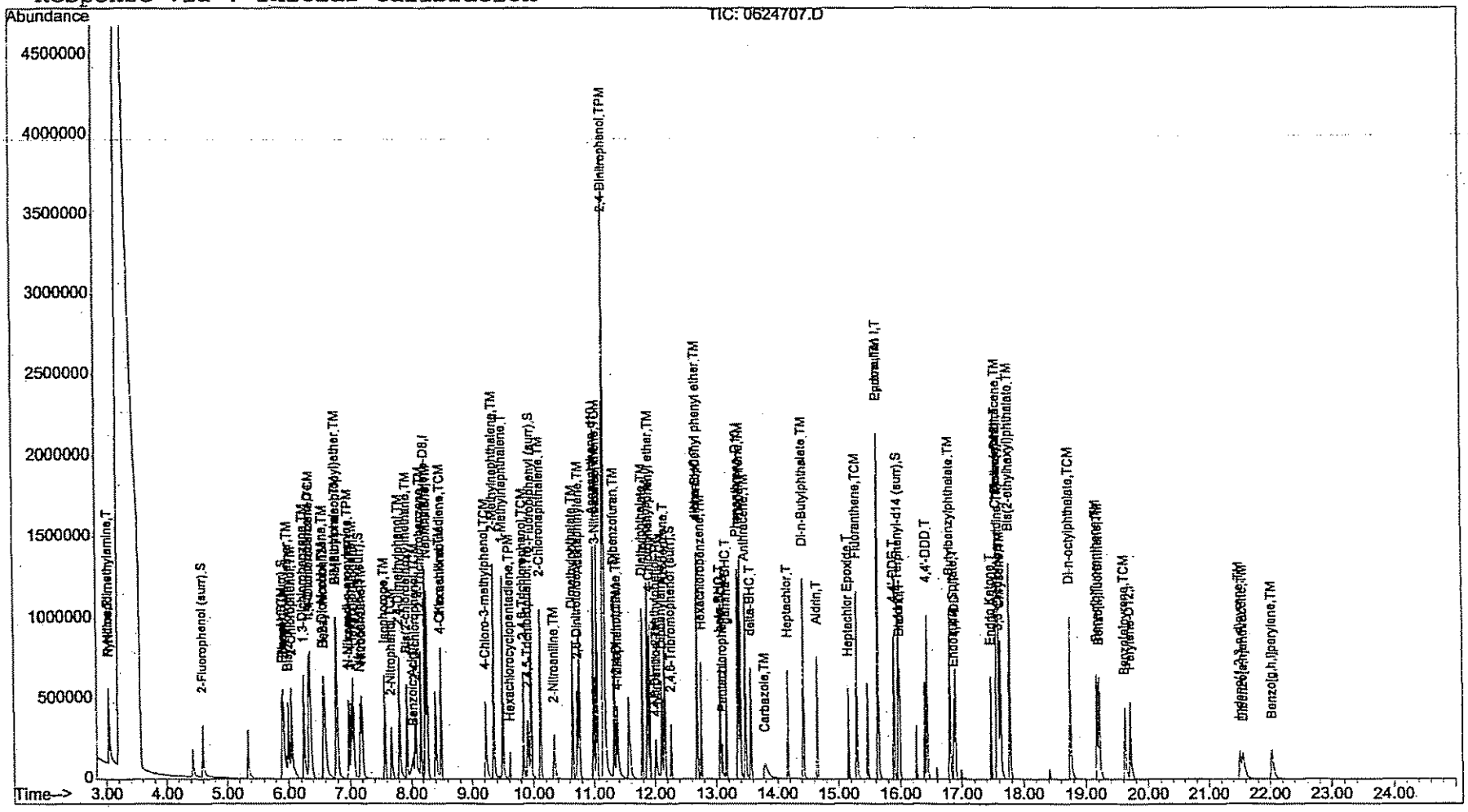
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.17	100	95660	4.62 ug/mL	89
72)	Aldrin	14.65	66	93647	4.79 ug/mL	88
73)	Heptachlor Epoxide	15.17	353	38101	4.10 ug/mL	98
74)	Endosulfan I	15.65	195	25186	5.07 ug/mL#	84
75)	4,4'-DDE	15.90	246	146817	4.34 ug/mL	100
76)	Dieldrin	15.99	79	123412	4.92 ug/mL	91
77)	Endrin	15.99	263	21264	4.25 ug/mL#	66
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.43	235	266266	4.21 ug/mL#	99
80)	Endosulfan Sulfate	16.88	272	36817	4.56 ug/mL#	88
81)	4,4'-DDT	16.90	235	192439	4.49 ug/mL	98
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.48	317	27610	4.15 ug/mL	97
84)	Methoxychlor	17.57	227	379291	4.69 ug/mL	92
86)	Pyrene	15.65	202	688443	4.37 ug/mL#	93
87)	Butylbenzylphthalate	16.81	149	367813	3.97 ug/mL	96
88)	Benzo[a]anthracene	17.57	228	536629	4.11 ug/mL	98
89)	3,3'-Dichlorobenzidine	17.61	252	51620	2.69 ug/mL	96
90)	Chrysene	17.62	228	498472	4.10 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.77	149	525159	4.07 ug/mL	99
94)	Di-n-octylphthalate	18.75	149	820600	3.58 ug/mL	100
95)	Benzo[b]fluoranthene	19.18	252	394845	3.55 ug/mL	98
96)	Benzo[k]fluoranthene	19.22	252	458584	4.22 ug/mL	99
97)	Benzo[a]pyrene	19.63	252	336911	3.84 ug/mL	100
98)	Indeno(1,2,3-c,d)pyrene	21.51	276	186762m	3.43 ug/mL	
99)	Dibenzo[a,h]anthracene	21.56	278	184879	3.38 ug/mL	99
100)	Benzo[g,h,i]perylene	22.04	276	225657	3.74 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:25 2005 Quant Results File: 8270.RES

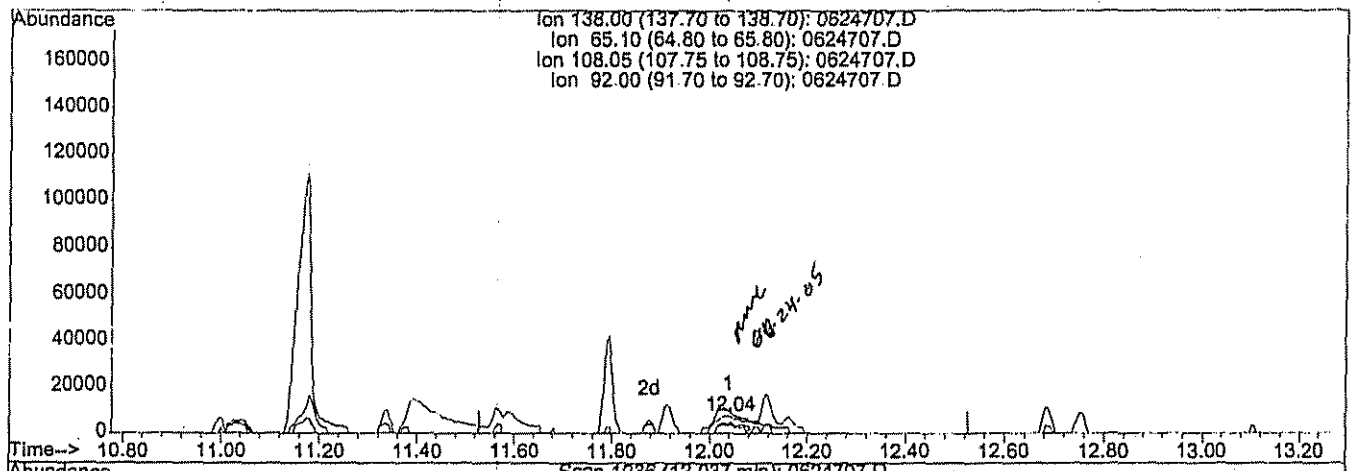
Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 17:11:55 2005
Response via : Initial Calibration

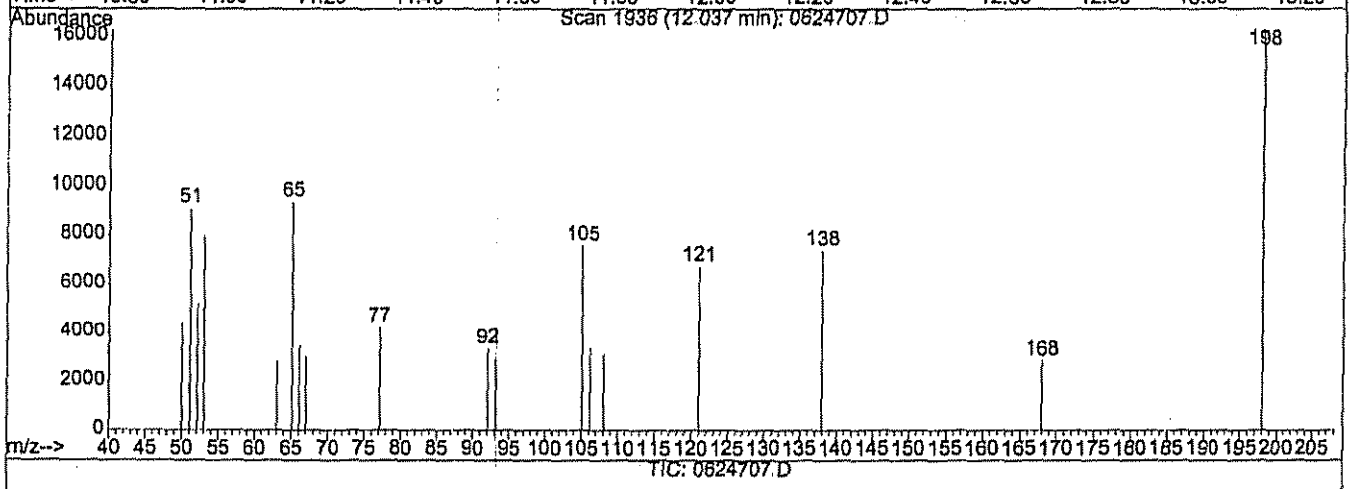


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:24 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Multiple Level Calibration





TIC: 0624707.D

(52) 4-Nitroaniline (TM)

12.04min 3.48ug/mL m

response 45783

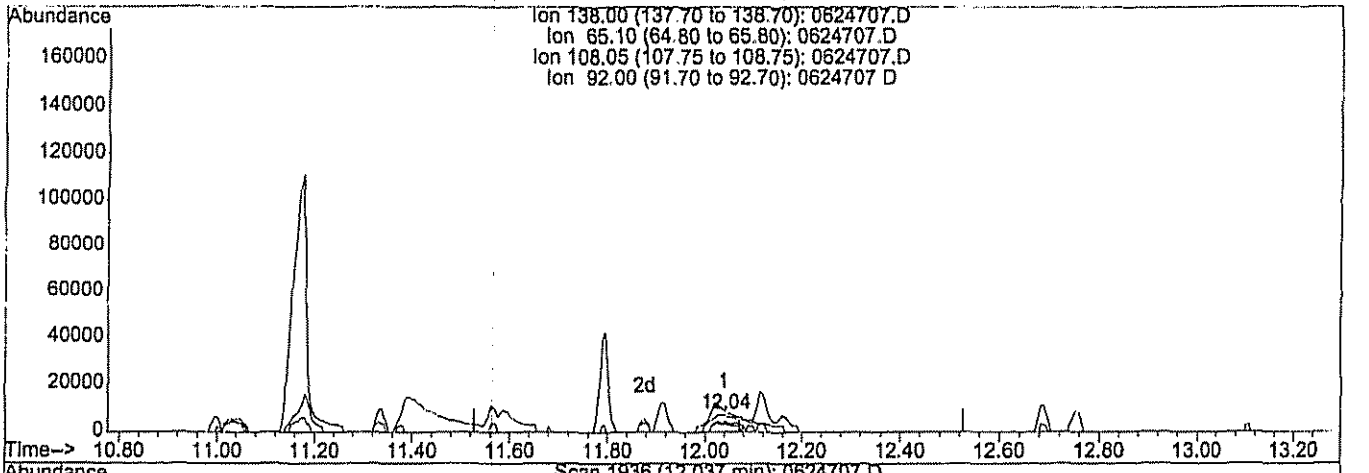
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	126.89
108.05	58.50	42.86#
92.00	43.90	45.43

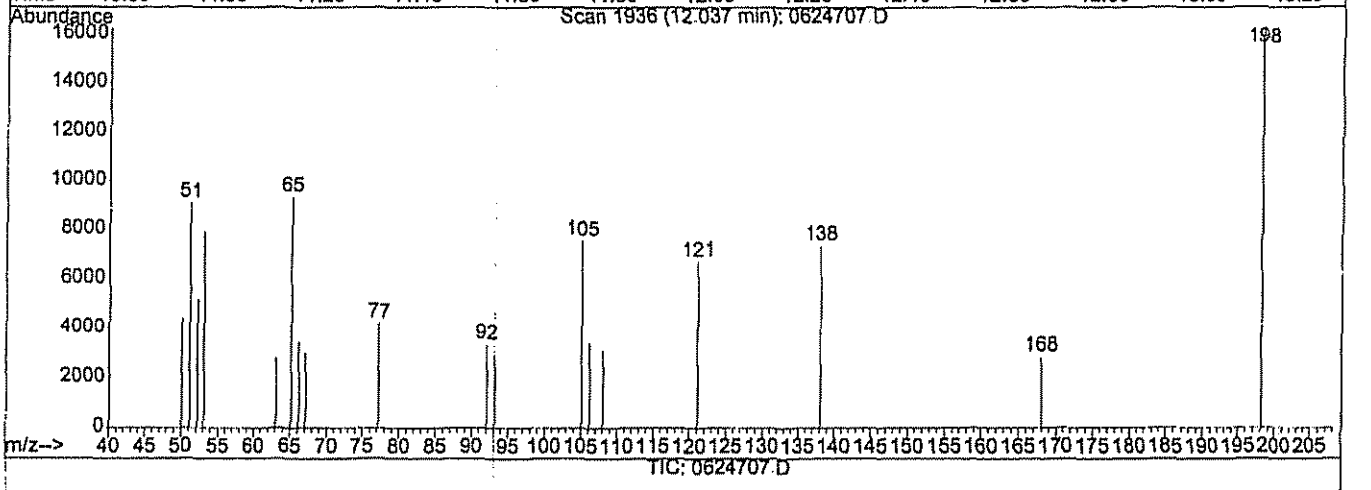
0624707.D 8270.M Fri Jun 24 16:24:34 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:24 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.04min 2.00ug/mL

response 26292

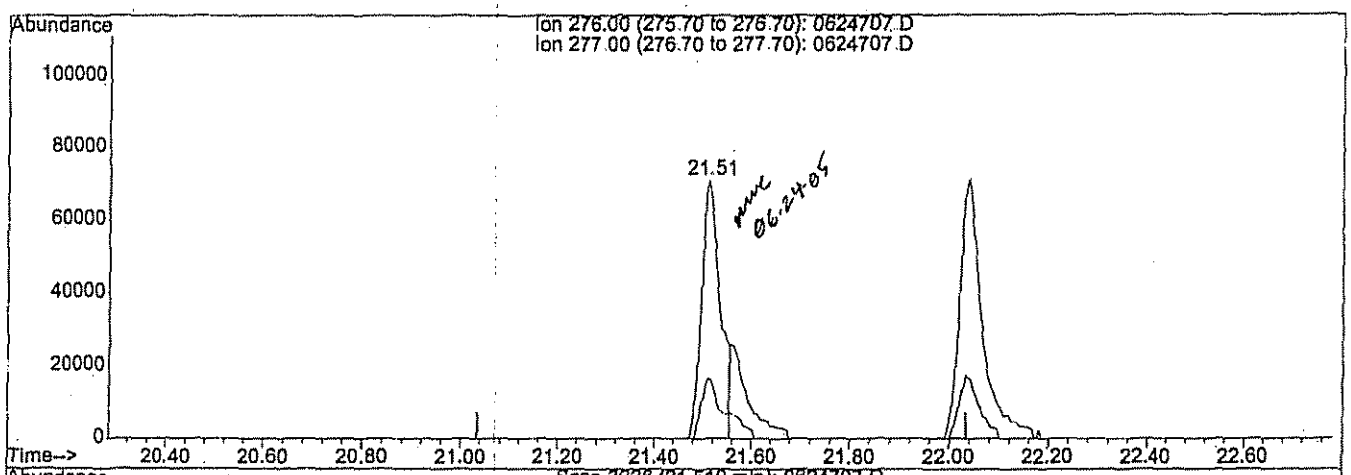
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	93.52
108.05	58.50	42.86#
92.00	43.90	45.43

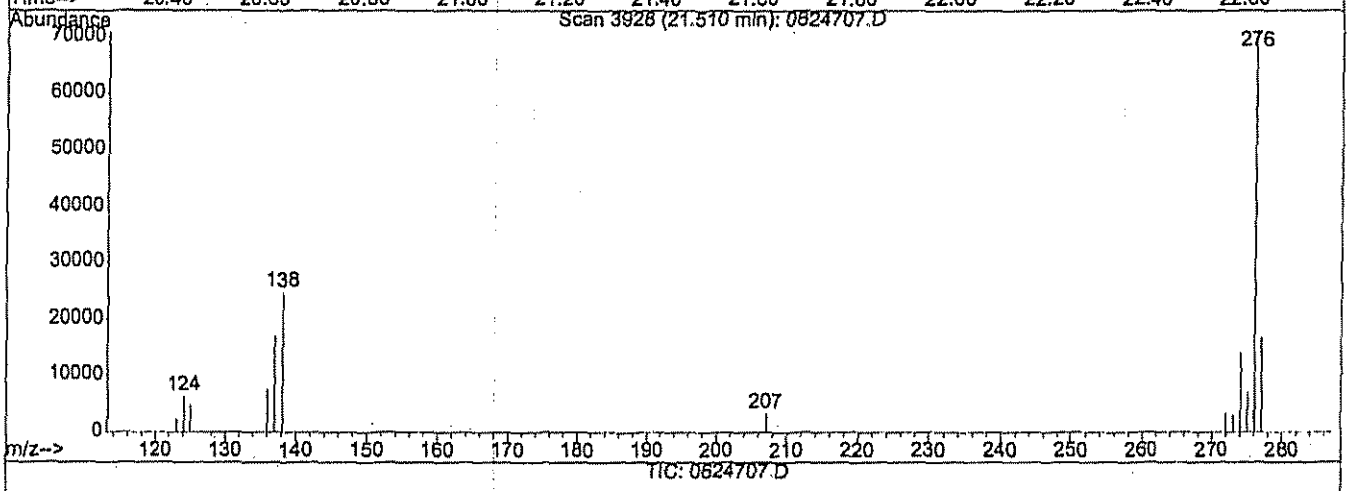
0624707.D 8270.M Fri Jun 24 16:24:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 3.43ug/mL m

response 186762

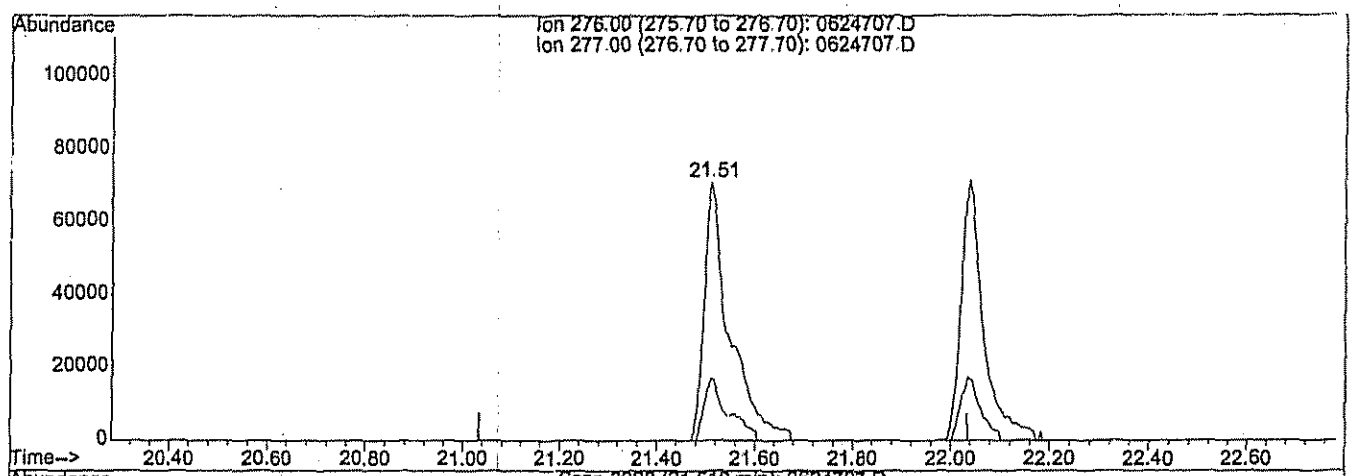
Ion	Exp%	Act%
276.00	100	100
277.00	23.30	23.57
0.00	0.00	0.00
0.00	0.00	0.00

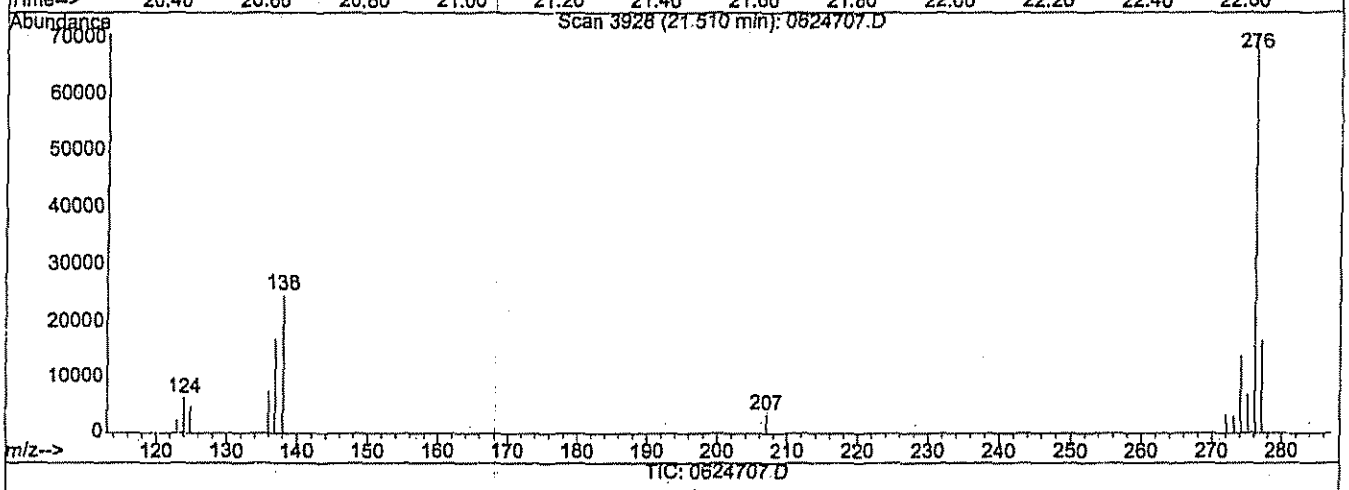
0624707.D 8270.M Fri Jun 24 16:25:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624707.D Vial: 7
Acq On : 24 Jun 2005 3:23 pm Operator: MRC
Sample : SVCAL4 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:24 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 4.67ug/mL

response 254371

Ion	Exp%	Act%
276.00	100	100
277.00	23.30	23.57
0.00	0.00	0.00
0.00	0.00	0.00

0624707.D 8270.M Fri Jun 24 16:24:58 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteimt.p
Quant Time: Jun 24 16:22:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 06.24.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.33	152	229176	4.00	ug/mL	0.00
18) Naphthalene-D8	8.23	136	930699	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.00	164	462644	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.36	188	728906	4.00	ug/mL	-0.01
85) Chrysene-D12	17.59	240	423215	4.00	ug/mL	-0.02
93) Perylene-D12	19.72	264	279875	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.59	112	97919	1.75	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	17.50%	
17) Phenol-d6 (surr)	5.90	99	154333	1.97	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	19.70%	
32) Nitrobenzene-d5 (surr)	7.16	128	56468	1.81	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	18.10%	
53) 2-Fluorobiphenyl (surr)	9.96	172	269325	2.17	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	21.70%	
54) 2,4,6-Tribromophenol (surr	12.27	330	25676	1.69	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	16.90%	
92) 4-Terphenyl-d14 (surr)	15.96	244	221335	2.12	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	21.20%	
Target Compounds						Qvalue
2) Pyridine	3.04	79	89233	2.00	ug/mL	93
3) N-Nitrosodimethylamine	3.04	74	65194	2.19	ug/mL	93
4) Phenol	5.92	94	185160	2.04	ug/mL	95
5) Bis(2-chloroethyl)ether	6.00	93	145344	2.10	ug/mL	99
6) 2-Chlorophenol	6.04	128	138297	1.94	ug/mL	96
7) Benzyl Alcohol	6.59	108	74269	1.61	ug/mL	99
8) 1,3-Dichlorobenzene	6.24	146	150414	2.04	ug/mL	99
9) 1,4-Dichlorobenzene	6.35	146	159956	2.09	ug/mL	99
10) 1,2-Dichlorobenzene	6.57	146	141925	2.07	ug/mL	100
11) 2-Methylphenol	6.78	107	109627	2.13	ug/mL	93
12) 3-, 4-Methylphenol	7.02	107	153532	2.10	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	6.78	45	217375	2.32	ug/mL#	92
14) N-Nitrosodi-n-propylamine	6.98	70	71762	1.98	ug/mL	97
15) Hexachloroethane	7.05	117	51911	2.20	ug/mL	94
19) Nitrobenzene	7.19	77	129474	2.02	ug/mL	95
20) Isophorone	7.56	82	201740	2.03	ug/mL	98
21) 2-Nitrophenol	7.68	139	70691	1.72	ug/mL	97
22) 2,4-Dimethylphenol	7.80	122	114139	1.93	ug/mL	97
23) Benzoic Acid	8.00	122	34090	0.92	ug/mL#	22
24) Bis(2-chloroethoxy)methane	7.93	93	150796	2.04	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:22:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	8.07	162	99717	1.79	ug/mL	96
26) 1,2,4-Trichlorobenzene	8.16	180	119432	2.08	ug/mL	98
27) Naphthalene	8.26	128	395056	2.17	ug/mL	100
28) 4-Chloroaniline	8.46	127	27323	0.91	ug/mL#	48
29) Hexachlorobutadiene	8.49	225	59758	2.15	ug/mL	98
30) 4-Chloro-3-methylphenol	9.23	107	102278	1.85	ug/mL	97
31) 2-Methylnaphthalene	9.35	142	302947	2.20	ug/mL	100
34) Hexachlorocyclopentadiene	9.62	237	9563	0.91	ug/mL#	92
35) 2,4,6-Trichlorophenol	9.84	196	73284	1.92	ug/mL	98
36) 2,4,5-Trichlorophenol	9.92	196	80089	1.93	ug/mL	98
37) 2-Chloronaphthalene	10.12	162	234530	2.13	ug/mL	97
38) 2-Nitroaniline	10.34	65	56724	1.77	ug/mL	96
39) 3-Nitroaniline	11.04	138	3760	0.46	ug/mL#	8
40) 1-Methylnaphthalene	9.51	142	279935	2.26	ug/mL	100
41) Dimethylphthalate	10.65	163	264791	2.08	ug/mL	99
42) Acenaphthylene	10.76	152	356568	2.26	ug/mL	99
43) 2,6-Dinitrotoluene	10.73	165	55218	1.97	ug/mL	96
44) Acenaphthene	11.05	153	241211	2.19	ug/mL	99
45) 2,4-Dinitrophenol	11.19	184	27989	1.70	ug/mL#	83
46) 4-Nitrophenol	11.43	109	6222m	0.51	ug/mL	
47) Dibenzofuran	11.34	168	357205	2.16	ug/mL	98
48) 2,4-Dinitrotoluene	11.38	165	71427	1.97	ug/mL	97
49) Fluorene	11.88	166	262363	2.16	ug/mL	99
50) Diethylphthalate	11.79	149	264719	2.15	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.91	204	123263	2.13	ug/mL	97
52) 4-Nitroaniline	12.03	138	12628m	0.93	ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.03	198	32193	1.54	ug/mL#	89
57) Diphenylamine	12.12	169	139079	2.98	ug/mL	97
58) 4-bromophenyl phenyl ether	12.69	248	66239	2.20	ug/mL	96
59) Hexachlorobenzene	12.75	284	66919	2.13	ug/mL	95
60) Pentachlorophenol	13.11	266	17240	0.87	ug/mL	93
61) Phenanthrene	13.40	178	387954	2.19	ug/mL	99
62) Carbazole	13.80	167	198115	3.69	ug/mL#	93
63) Anthracene	13.48	178	371185	2.17	ug/mL	99
64) Azobenzene	12.16	77	271471	2.30	ug/mL	94
65) Di-n-Butylphthalate	14.42	149	450474	2.18	ug/mL	99
66) Fluoranthene	15.29	202	339131	2.02	ug/mL#	95
67) alpha-BHC	12.69	183	48131	2.35	ug/mL	98
68) beta-BHC	13.07	181	39207	2.17	ug/mL	99
69) gamma-BHC	13.17	183	41973	2.28	ug/mL	99
70) delta-BHC	13.57	183	35865	2.08	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:22:47 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 15:34:14 2005
Response via : Initial Calibration
DataAcq Meth : 8270

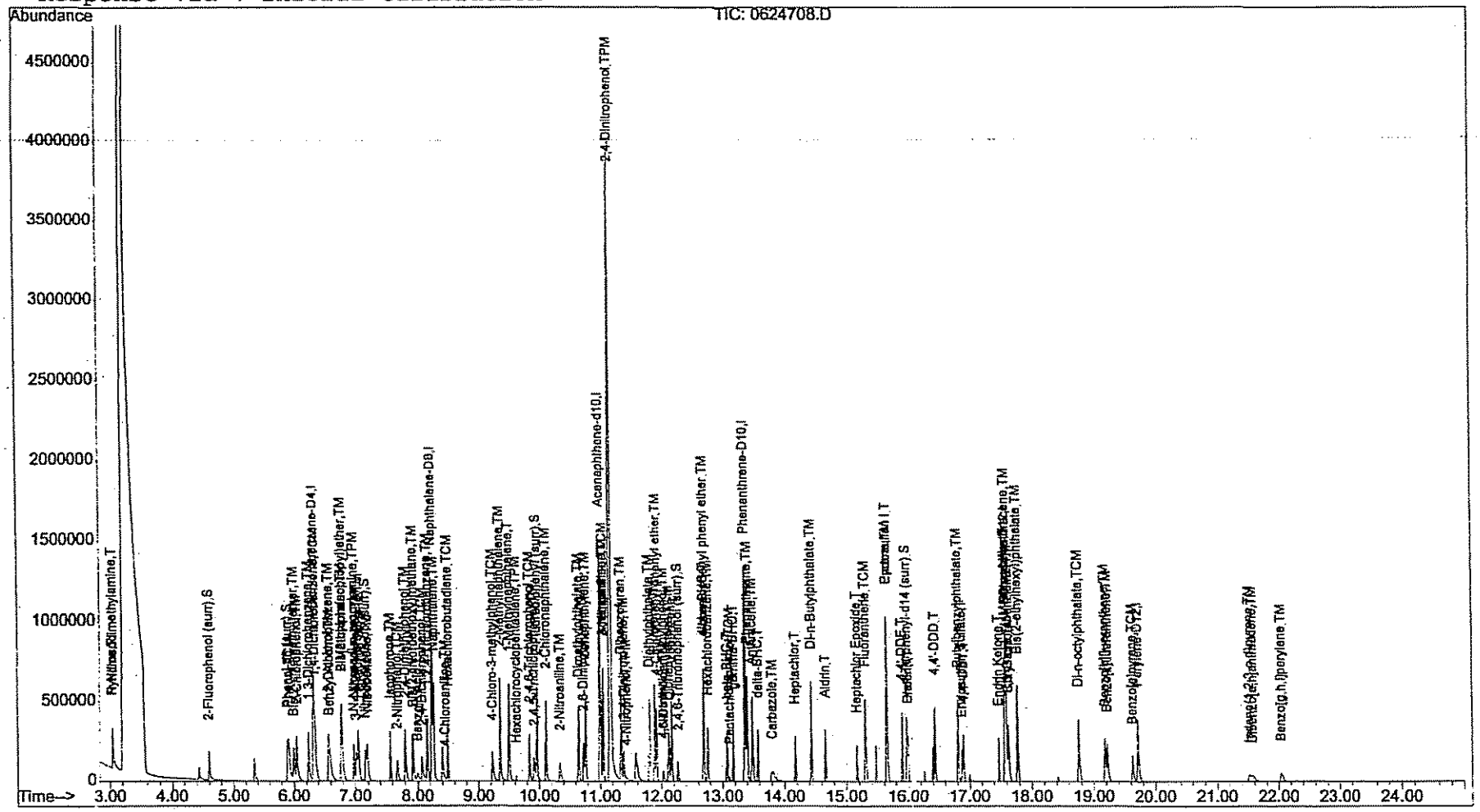
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.17	100	48596	2.30 ug/mL	89
72)	Aldrin	14.65	66	50213	2.52 ug/mL	86
73)	Heptachlor Epoxide	15.17	353	18319	1.93 ug/mL	100
74)	Endosulfan I	15.64	195	12675	2.50 ug/mL#	72
75)	4,4'-DDE	15.89	246	74456	2.16 ug/mL	99
76)	Dieldrin	15.99	79	67126	2.62 ug/mL	92
77)	Endrin	15.99	263	11788	2.31 ug/mL	75
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.43	235	134649	2.09 ug/mL#	97
80)	Endosulfan Sulfate	16.88	272	17451	2.12 ug/mL#	84
81)	4,4'-DDT	16.90	235	93308	2.13 ug/mL	98
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.48	317	14717	2.17 ug/mL	93
84)	Methoxychlor	17.57	227	182431	2.21 ug/mL	90
86)	Pyrene	15.64	202	344815	2.33 ug/mL#	91
87)	Butylbenzylphthalate	16.81	149	177882	2.04 ug/mL	95
88)	Benzo[a]anthracene	17.57	228	253538	2.07 ug/mL	97
89)	3,3'-Dichlorobenzidine	17.62	252	13005	0.72 ug/mL#	89
90)	Chrysene	17.62	228	237469	2.08 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.77	149	258842	2.13 ug/mL	99
94)	Di-n-octylphthalate	18.75	149	378048	1.91 ug/mL	100
95)	Benzo[b]fluoranthene	19.18	252	167927	1.75 ug/mL	99
96)	Benzo[k]fluoranthene	19.22	252	211308	2.26 ug/mL	99
97)	Benzo[a]pyrene	19.63	252	137178	1.81 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	21.51	276	58750m	1.25 ug/mL	
99)	Dibenzo[a,h]anthracene	21.57	278	58239	1.24 ug/mL#	91
100)	Benzo[g,h,i]perylene	22.04	276	78340	1.51 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:26 2005 Quant Results File: 8270.RES

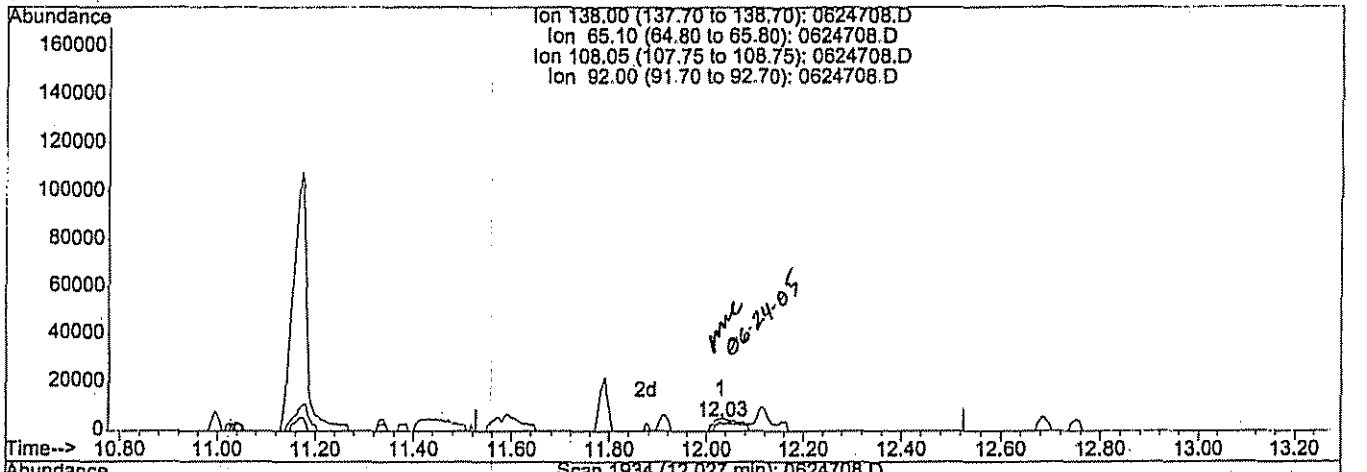
Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 17:11:55 2005
Response via : Initial Calibration

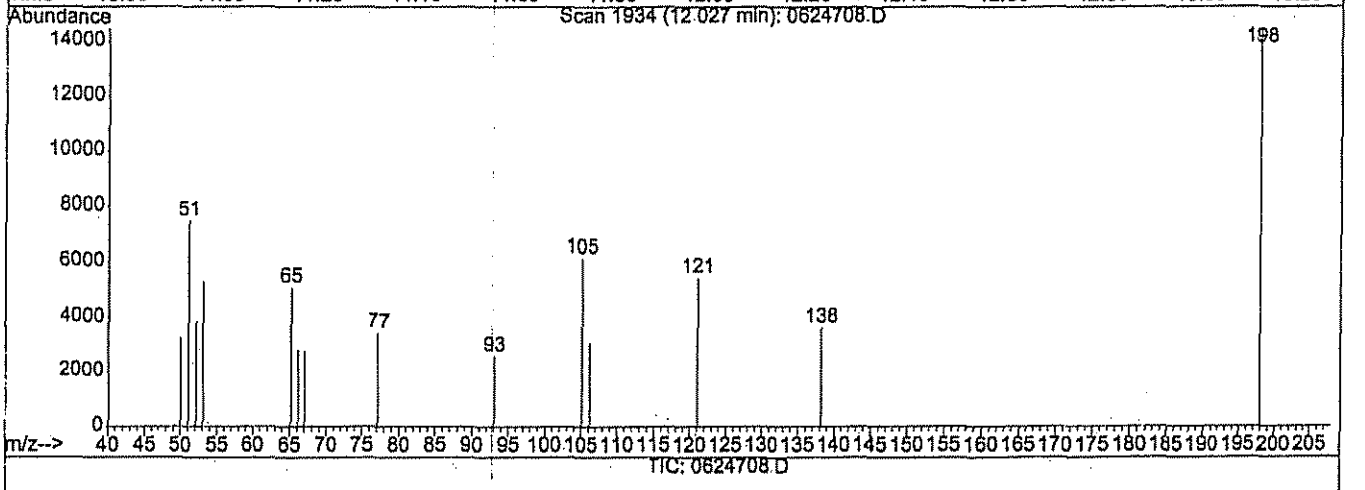


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:25:13 2005
Response via : Multiple Level Calibration





TIC: 0624708.D

(52) 4-Nitroaniline (TM)

12.03min 0.93ug/mL m

response 12628

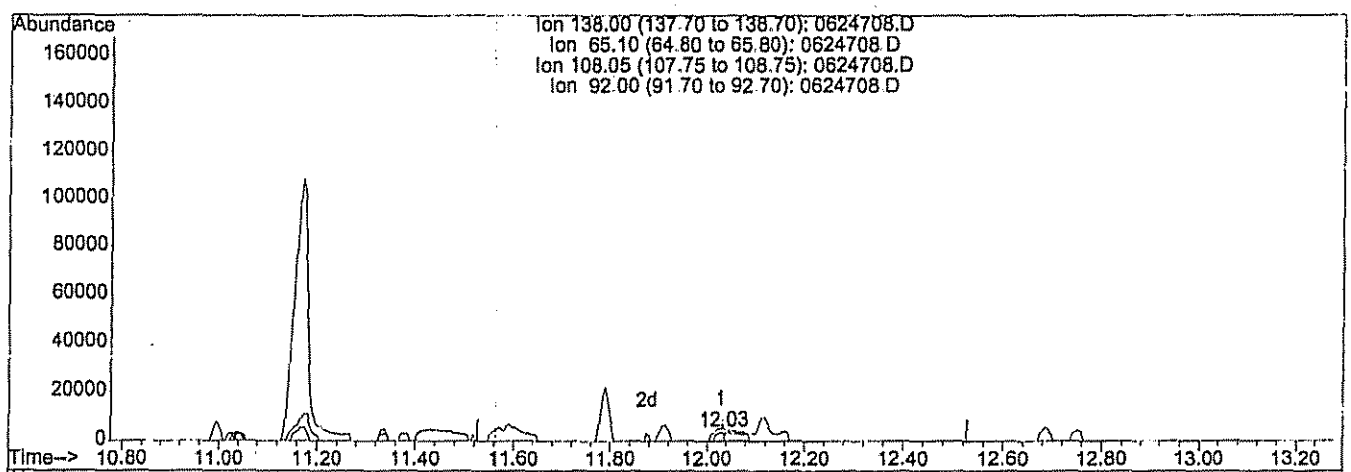
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	139.79#
108.05	58.50	0.00#
92.00	43.90	0.00#

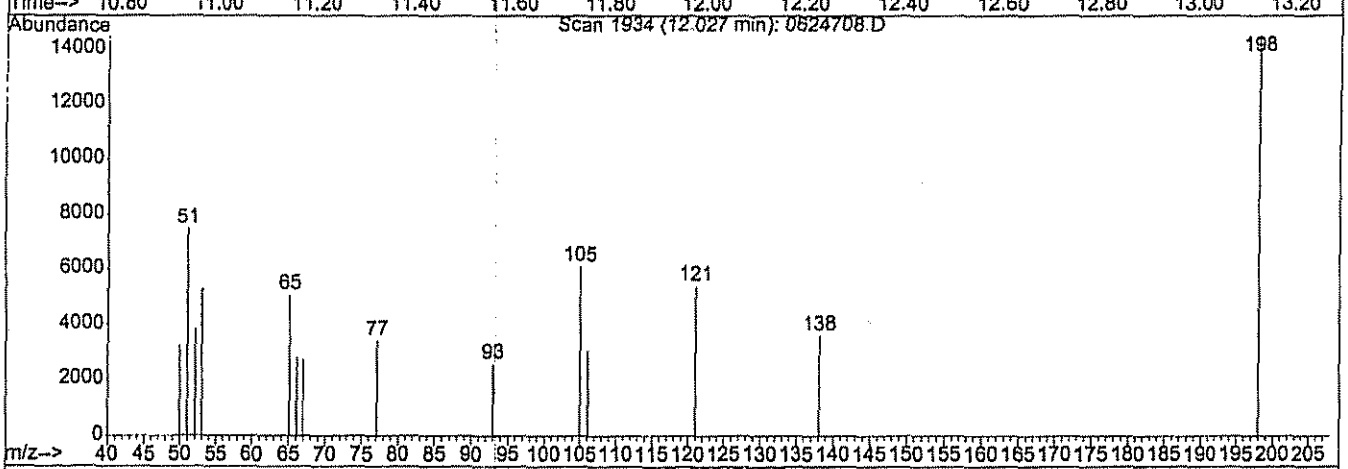
0624708.D 8270.M Fri Jun 24 16:25:59 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:25:13 2005
Response via : Multiple Level Calibration





TIC: 0624708.D

(52) 4-Nitroaniline (TM)

12.03min 0.32ug/mL

response 4309

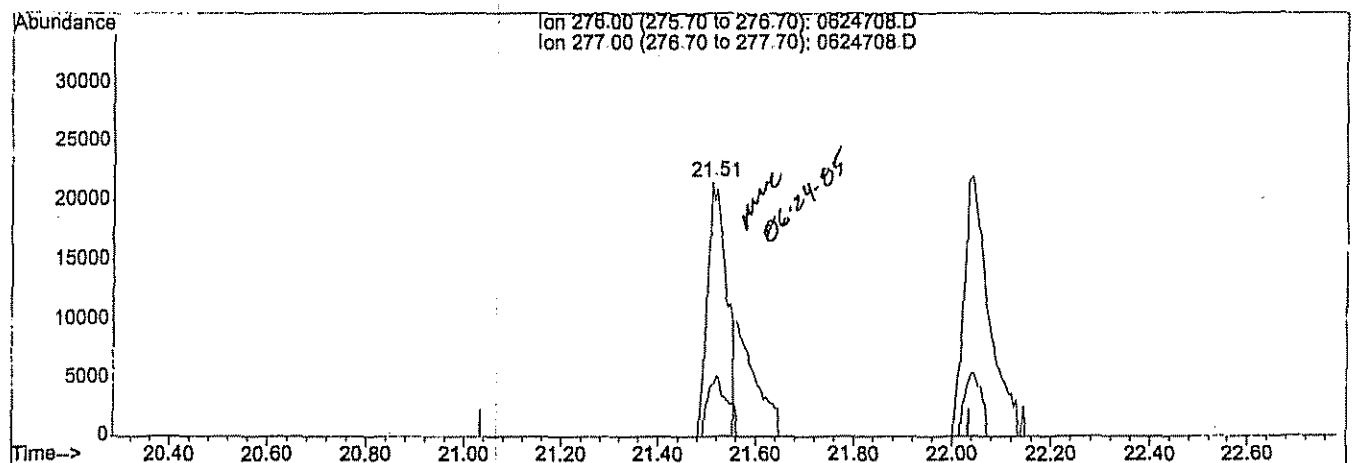
Ion	Exp%	Act%
138.00	100	100
65.10	108.30	71.77#
108.05	58.50	0.00#
92.00	43.90	0.00#

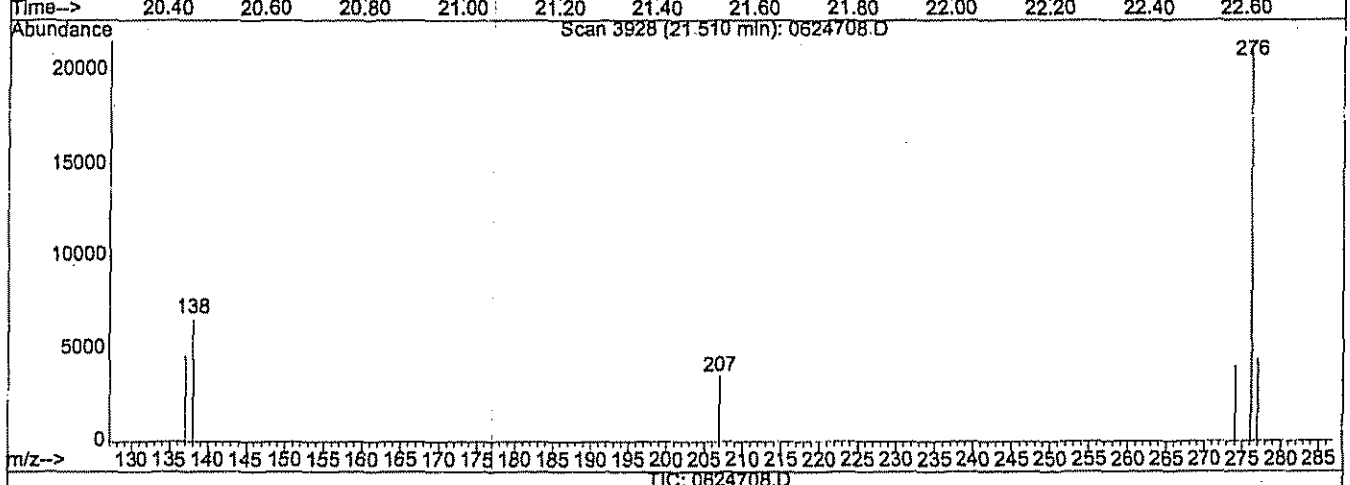
0624708.D 8270.M Fri Jun 24 16:25:55 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:26 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:25:13 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 1.25ug/mL m

response 58750

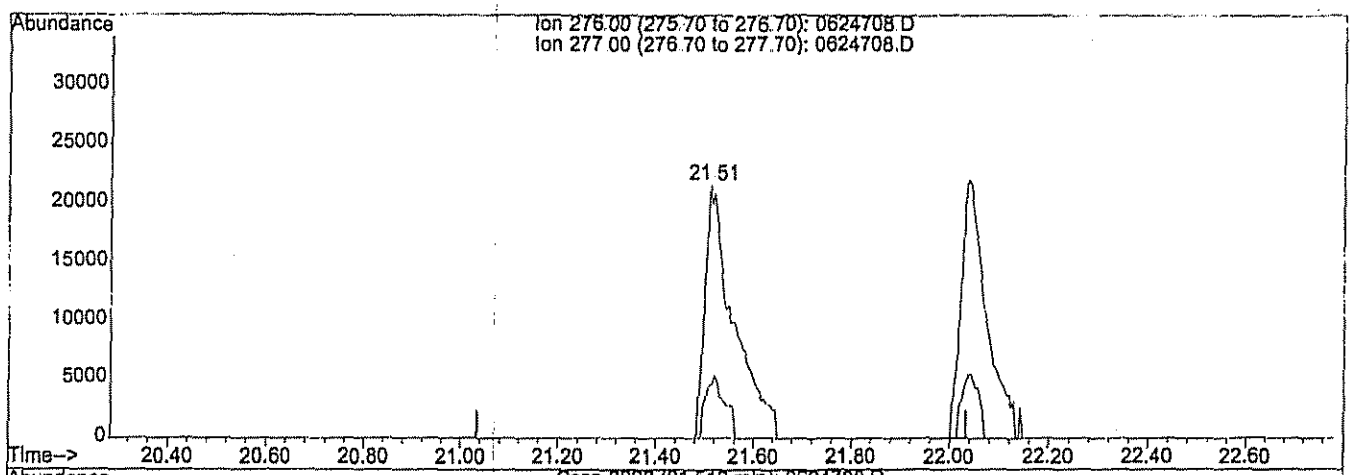
Ion	Exp%	Act%
276.00	100	100
277.00	23.30	20.82
0.00	0.00	0.00
0.00	0.00	0.00

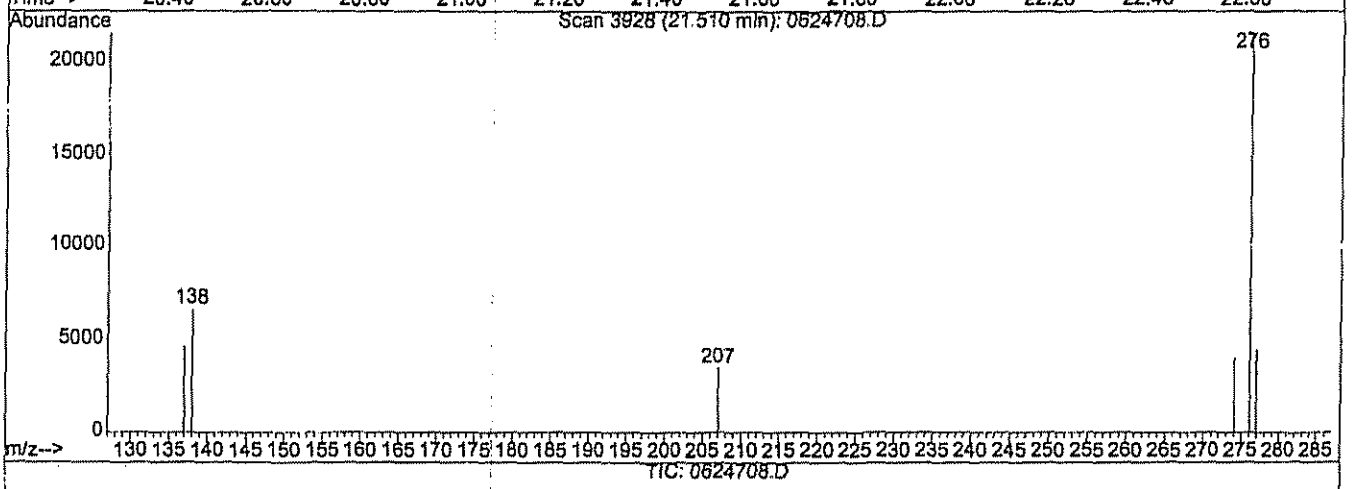
0624708.D 8270.M Fri Jun 24 16:26:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624708.D Vial: 8
Acq On : 24 Jun 2005 3:57 pm Operator: MRC
Sample : SVCAL2 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:25 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:25:13 2005
Response via : Multiple Level Calibration





TIC: 0624708.D

(98) Indeno(1,2,3-c,d)pyrene (TM)

21.51min 1.87ug/mL

response 87813

Ion	Exp%	Act%
276.00	100	100
277.00	23.30	20.82
0.00	0.00	0.00
0.00	0.00	0.00

0624708.D 8270.M Fri Jun 24 16:26:22 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:58:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:26:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 06 24-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.32	152	225843	4.00	ug/mL	0.00
18) Naphthalene-D8	8.23	136	924761	4.00	ug/mL	-0.01
33) Acenaphthene-d10	11.00	164	460907	4.00	ug/mL	0.00
55) Phenanthrene-D10	13.36	188	728333	4.00	ug/mL	-0.01
85) Chrysene-D12	17.59	240	421845	4.00	ug/mL	-0.02
93) Perylene-D12	19.72	264	291219	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.59	112	40818	0.76	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	7.60%	
17) Phenol-d6 (surr)	5.90	99	70399	0.91	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	9.10%	
32) Nitrobenzene-d5 (surr)	7.17	128	24071	0.79	ug/mL	-0.01
Spiked Amount 10.000			Recovery	=	7.90%	
53) 2-Fluorobiphenyl (surr)	9.96	172	133487	1.05	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	10.50%	
54) 2,4,6-Tribromophenol (surr	12.27	330	10723	0.73	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	7.30%	
92) 4-Terphenyl-d14 (surr)	15.97	244	107794	1.03	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	10.30%	
Target Compounds						Qvalue
2) Pyridine	3.05	79	26601	0.61	ug/mL	91
3) N-Nitrosodimethylamine	3.04	74	28851	0.95	ug/mL	91
4) Phenol	5.92	94	71907	0.80	ug/mL	91
5) Bis(2-chloroethyl)ether	6.00	93	65982	0.96	ug/mL	95
6) 2-Chlorophenol	6.04	128	65666	0.94	ug/mL	95
7) Benzyl Alcohol	6.59	108	25627	0.59	ug/mL	96
8) 1,3-Dichlorobenzene	6.24	146	73554	1.01	ug/mL	96
9) 1,4-Dichlorobenzene	6.35	146	79250	1.04	ug/mL	96
10) 1,2-Dichlorobenzene	6.57	146	70099	1.03	ug/mL	98
11) 2-Methylphenol	6.78	107	48313	0.93	ug/mL#	89
12) 3-, 4-Methylphenol	7.02	107	68107	0.92	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	6.78	45	108914	1.13	ug/mL	95
14) N-Nitrosodi-n-propylamine	6.98	70	32917	0.92	ug/mL	94
15) Hexachloroethane	7.05	117	25564	1.06	ug/mL	95
19) Nitrobenzene	7.19	77	59538	0.93	ug/mL	97
20) Isophorone	7.57	82	100811	1.02	ug/mL	100
21) 2-Nitrophenol	7.68	139	29081	0.73	ug/mL	95
22) 2,4-Dimethylphenol	7.80	122	52409	0.89	ug/mL	97
23) Benzoic Acid	0.00	122	0	N.D.		
24) Bis(2-chloroethoxy)methane	7.93	93	69262	0.93	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:58:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:26:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.08	162	39691	0.73 ug/mL	97
26) 1,2,4-Trichlorobenzene	8.16	180	57272	0.99 ug/mL	96
27) Naphthalene	8.26	128	196476	1.06 ug/mL	99
28) 4-Chloroaniline	8.45	127	9299m	0.37 ug/mL	
29) Hexachlorobutadiene	8.49	225	29661	1.05 ug/mL	94
30) 4-Chloro-3-methylphenol	9.24	107	44321	0.81 ug/mL	97
31) 2-Methylnaphthalene	9.35	142	150567	1.07 ug/mL	96
34) Hexachlorocyclopentadiene	9.62	237	1972	0.21 ug/mL#	28
35) 2,4,6-Trichlorophenol	9.84	196	33082	0.88 ug/mL	97
36) 2,4,5-Trichlorophenol	9.93	196	36370	0.88 ug/mL	98
37) 2-Chloronaphthalene	10.12	162	115338	1.03 ug/mL	97
38) 2-Nitroaniline	10.34	65	25929	0.83 ug/mL	90
39) 3-Nitroaniline	0.00	138	0	N.D.	
40) 1-Methylnaphthalene	9.51	142	138628	1.09 ug/mL	98
41) Dimethylphthalate	10.65	163	130935	1.02 ug/mL	100
42) Acenaphthylene	10.77	152	179421	1.10 ug/mL	99
43) 2,6-Dinitrotoluene	10.73	165	24924	0.89 ug/mL	99
44) Acenaphthene	11.05	153	123474	1.10 ug/mL	98
45) 2,4-Dinitrophenol	11.19	184	12641	0.80 ug/mL#	63
46) 4-Nitrophenol	0.00	109	0	N.D. d	
47) Dibenzofuran	11.34	168	182410	1.08 ug/mL	99
48) 2,4-Dinitrotoluene	11.39	165	33681	0.93 ug/mL#	93
49) Fluorene	11.88	166	131589	1.06 ug/mL	99
50) Diethylphthalate	11.79	149	130809	1.04 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.91	204	60791	1.03 ug/mL	97
52) 4-Nitroaniline	0.00	138	0	N.D.	
56) 4,6-Dinitro-2-methylphenol	12.04	198	9468	0.48 ug/mL#	62
57) Diphenylamine	12.12	169	73185	1.40 ug/mL	98
58) 4-bromophenyl phenyl ether	12.69	248	31356	1.01 ug/mL	96
59) Hexachlorobenzene	12.76	284	32707	1.03 ug/mL	97
60) Pentachlorophenol	0.00	266	0	N.D.	
61) Phenanthrene	13.40	178	195671	1.08 ug/mL	98
62) Carbazole	13.80	167	111248	1.78 ug/mL#	85
63) Anthracene	13.48	178	184231	1.05 ug/mL	99
64) Azobenzene	12.16	77	136699	1.11 ug/mL	93
65) Di-n-Butylphthalate	14.42	149	219012	1.03 ug/mL	99
66) Fluoranthene	15.29	202	166965	0.99 ug/mL#	95
67) alpha-BHC	12.69	183	23557	1.10 ug/mL	92
68) beta-BHC	13.07	181	18464	1.00 ug/mL	100
69) gamma-BHC	13.17	183	20777	1.09 ug/mL	99
70) delta-BHC	13.57	183	16915	0.97 ug/mL	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 16:58:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:26:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

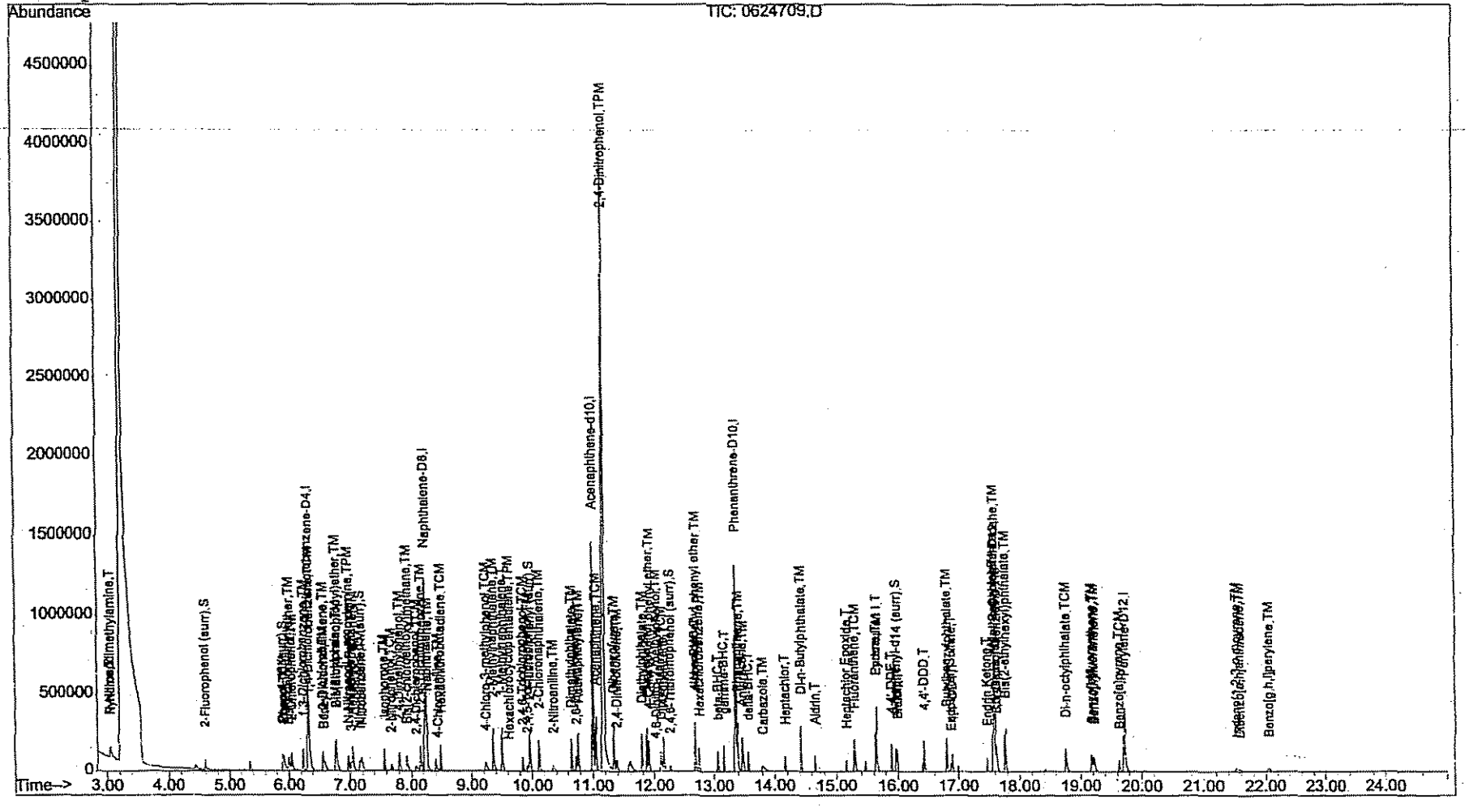
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.17	100	24190	1.10 ug/mL	86
72)	Aldrin	14.65	66	25617	1.21 ug/mL#	83
73)	Heptachlor Epoxide	15.17	353	8863	0.94 ug/mL	88
74)	Endosulfan I	15.64	195	5239	0.96 ug/mL#	40
75)	4,4'-DDE	15.89	246	37157	1.05 ug/mL	93
76)	Dieldrin	15.99	79	34002	1.23 ug/mL#	86
77)	Endrin	15.99	263	5102	0.97 ug/mL	76
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.43	235	63719	0.98 ug/mL#	97
80)	Endosulfan Sulfate	16.87	272	7949	0.94 ug/mL#	43
81)	4,4'-DDT	16.90	235	45726	1.02 ug/mL	99
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.48	317	6356	0.92 ug/mL	98
84)	Methoxychlor	17.57	227	86925	1.01 ug/mL	94
86)	Pyrene	15.65	202	174381	1.14 ug/mL	97
87)	Butylbenzylphthalate	16.81	149	84818	0.98 ug/mL	89
88)	Benzo[a]anthracene	17.57	228	125564	1.02 ug/mL	98
89)	3,3'-Dichlorobenzidine	17.62	252	2156	0.14 ug/mL#	27
90)	Chrysene	17.63	228	121391	1.06 ug/mL	97
91)	Bis(2-ethylhexyl)phthalate	17.77	149	124283	1.02 ug/mL#	96
94)	Di-n-octylphthalate	18.75	149	172965	0.86 ug/mL	100
95)	Benzo[b]fluoranthene	19.18	252	76828	0.80 ug/mL	96
96)	Benzo[k]fluoranthene	19.22	252	109581	1.10 ug/mL	94
97)	Benzo[a]pyrene	19.63	252	66134	0.86 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	21.52	276	29959m	0.66 ug/mL	
99)	Dibenzo[a,h]anthracene	21.58	278	22687	0.50 ug/mL#	50
100)	Benzo[g,h,i]perylene	22.06	276	37867	0.73 ug/mL#	78

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 17:06 2005 Quant Results File: 8270.RES

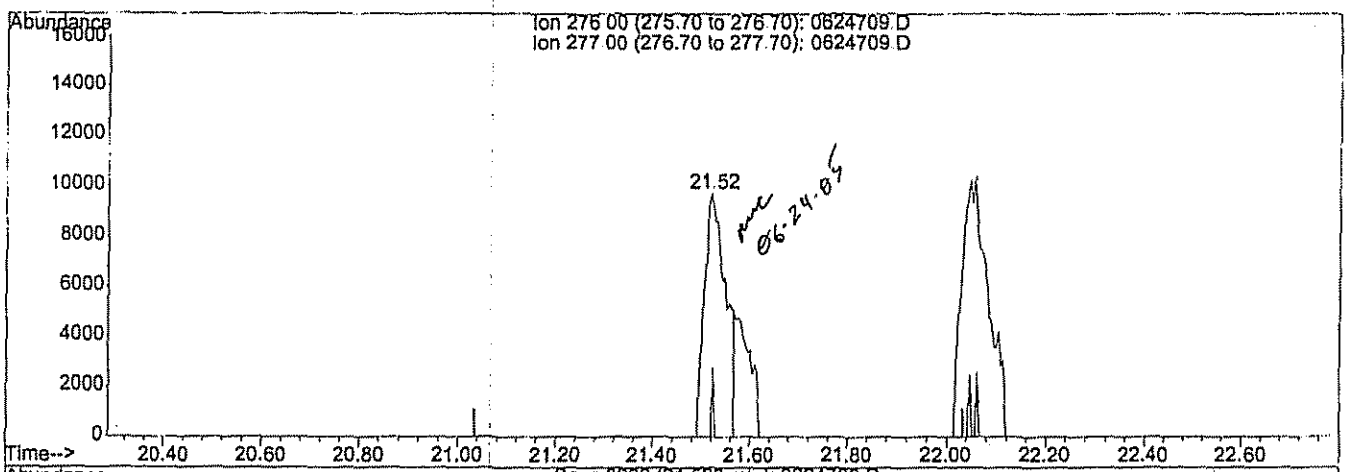
Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 17:11:55 2005
Response via : Initial Calibration

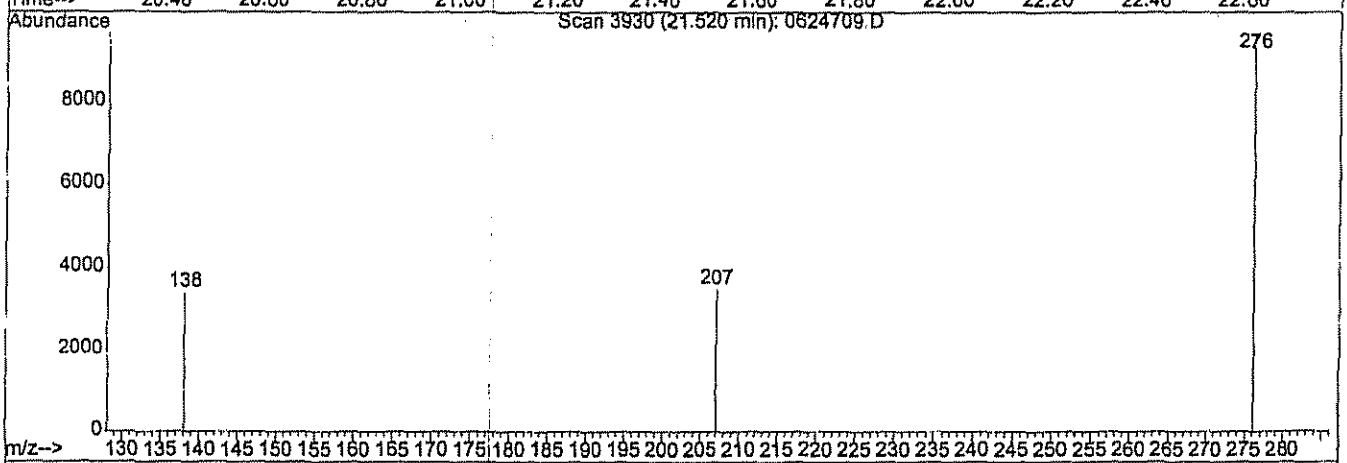


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 17:06 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:26:40 2005
Response via : Multiple Level Calibration





TIC: 0624709.D

(98) Indeno(1,2,3-c,d)pyrene (TM)

21.52min 0.66ug/mL m

response 29959

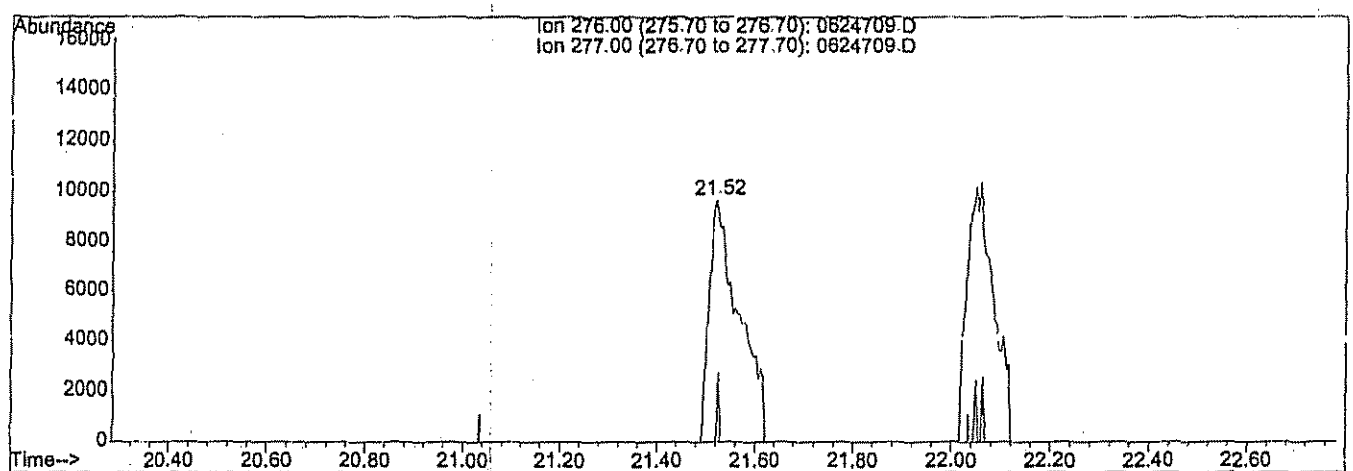
Ion	Exp%	Act%
276.00	100	100
277.00	23.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

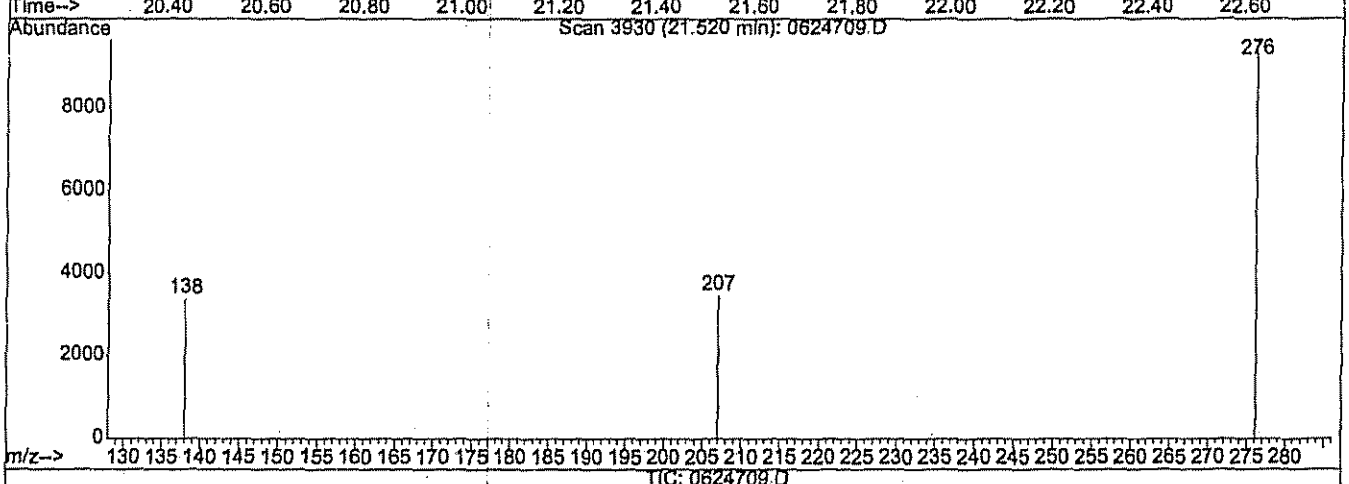
0624709.D 8270.M Fri Jun 24 17:06:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7062405\0624709.D Vial: 9
Acq On : 24 Jun 2005 4:32 pm Operator: MRC
Sample : SVCAL1 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 24 17:06 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7062405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Fri Jun 24 16:26:40 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

21.52min 0.89ug/mL

response 40357

Ion	Exp%	Act%
276.00	100	100
277.00	23.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

0624709.D 8270.M Fri Jun 24 17:06:45 2005 ENV

625 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	83	-0.07
2	T	Pyridine	0.777	0.885	-13.9	93	-0.07
3	T	N-Nitrosodimethylamine	0.579	0.632	-9.2	85	-0.07
4	TCM	Phenol	1.560	1.706	-9.4	84	-0.07
5	TM	Bis(2-chloroethyl)ether	1.212	1.257	-3.7	85	-0.07
6	TM	2-Chlorophenol	1.231	1.279	-3.9	82	-0.07
7	TM	Benzyl Alcohol	0.733	0.797	-8.7	82	-0.07
8	TM	1,3-Dichlorobenzene	1.295	1.375	-6.2	83	-0.07
9	TCM	1,4-Dichlorobenzene	1.361	1.448	-6.4	84	-0.07
10	TM	1,2-Dichlorobenzene	1.214	1.302	-7.2	84	-0.07
11	TM	2-Methylphenol	0.911	0.990	-8.7	81	-0.07
12	TM	3-, 4-Methylphenol	1.293	1.383	-7.0	82	-0.07
13	TM	Bis(2-chloroisopropyl)ether	1.735	1.950	-12.4	87	-0.07
14	TPM	N-Nitrosodi-n-propylamine	0.628	0.691	-10.0	86	-0.07
15	TM	Hexachloroethane	0.430	0.480	-11.6	85	-0.07
16	S	2-Fluorophenol (surr)	0.921	0.960	-4.2	80	-0.07
17	S	Phenol-d6 (surr)	1.354	1.429	-5.5	81	-0.06
18	I	Naphthalene-D8	1.000	1.000	0.0	83	-0.08
19	TM	Nitrobenzene	0.275	0.301	-9.5	84	-0.08
20	TM	Isophorone	0.430	0.456	-6.0	85	-0.08
21	TCM	2-Nitrophenol	0.166	0.176	-6.0	80	-0.07
22	TM	2,4-Dimethylphenol	0.250	0.252	-0.8	77	-0.07
23	T	Benzoic Acid	0.141	0.099	29.8#	58	-0.08
24	TM	Bis(2-chloroethoxy)methane	0.318	0.345	-8.5	84	-0.07
25	TCM	2,4-Dichlorophenol	0.228	0.235	-3.1	77	-0.07
26	TM	1,2,4-Trichlorobenzene	0.249	0.267	-7.2	83	-0.08
27	TM	Naphthalene	0.806	0.860	-6.7	83	-0.08
28	TM	4-Chloroaniline	0.091	0.079	13.2	93	-0.10
29	TCM	Hexachlorobutadiene	0.123	0.135	-9.8	86	-0.08
30	TCM	4-Chloro-3-methylphenol	0.230	0.238	-3.5	79	-0.08
31	TM	2-Methylnaphthalene	0.614	0.661	-7.7	83	-0.08
32	S	Nitrobenzene-d5 (surr)	0.128	0.135	-5.5	81	-0.08
33	I	Acenaphthene-d10	1.000	1.000	0.0	82	-0.09
34	TPM	Hexachlorocyclopentadiene	0.072	0.054	25.0#	55	-0.08
35	TCM	2,4,6-Trichlorophenol	0.323	0.338	-4.6	79	-0.08
36	TM	2,4,5-Trichlorophenol	0.353	0.364	-3.1	75	-0.09
37	TM	2-Chloronaphthalene	0.975	1.056	-8.3	82	-0.08
38	TM	2-Nitroaniline	0.265	0.293	-10.6	87	-0.08
39	TM	3-Nitroaniline	0.056	0.033	41.1#	107	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1-Methylnaphthalene	1.119	1.202	-7.4	81	-0.08
41	TM	Dimethylphthalate	1.113	1.172	-5.3	82	-0.08
42	TM	Acenaphthylene	1.434	1.601	-11.6	82	-0.08
43	TM	2,6-Dinitrotoluene	0.239	0.257	-7.5	80	-0.08
44	TCM	Acenaphthene	0.990	1.076	-8.7	83	-0.09
45	TPM	2,4-Dinitrophenol	0.134	0.121	9.7	68	-0.09
46	TPM	4-Nitrophenol	0.091	0.080	12.1	70	-0.10
47	TM	Dibenzofuran	1.477	1.562	-5.8	80	-0.08
48	TM	2,4-Dinitrotoluene	0.311	0.328	-5.5	80	-0.08
49	TM	Fluorene	1.081	1.156	-6.9	81	-0.09
50	TM	Diethylphthalate	1.094	1.157	-5.8	81	-0.09
51	TM	4-Chlorophenyl phenyl ether	0.513	0.546	-6.4	81	-0.08
52	TM	4-Nitroaniline	0.107	0.114	-6.5	80	-0.10
53	S	2-Fluorobiphenyl (surr)	1.106	1.201	-8.6	82	-0.08
54	S	2,4,6-Tribromophenol (surr)	0.123	0.119	3.3	73	-0.09
55	I	Phenanthrene-D10	1.000	1.000	0.0	80	-0.09
56	TM	4,6-Dinitro-2-methylphenol	0.102	0.099	2.9	69	-0.09
57	TCM	Diphenylamine	0.350	0.414	-18.3	101	-0.08
58	TM	4-bromophenyl phenyl ether	0.170	0.189	-11.2	80	-0.08
59	TM	Hexachlorobenzene	0.176	0.189	-7.4	81	-0.09
60	TCM	Pentachlorophenol	0.095	0.088	7.4	72	-0.09
61	TM	Phenanthrene	1.006	1.075	-6.9	80	-0.09
62	TM	Carbazole	0.388	0.000#	100.0#	0#	-13.79#
63	TM	Anthracene	0.966	1.044	-8.1	80	-0.09
64	T	Azobenzene	0.683	0.753	-10.2	83	-0.08
65	TM	Di-n-Butylphthalate	1.169	1.255	-7.4	79	-0.09
66	TCM	Fluoranthene	0.927	0.962	-3.8	77	-0.09
67	T	alpha-BHC	0.119	0.131	-10.1	81	-0.09
68	T	beta-BHC	0.102	0.109	-6.9	79	-0.09
69	T	gamma-BHC	0.106	0.112	-5.7	80	-0.09
70	T	delta-BHC	0.095	0.099	-4.2	76	-0.09
71	T	Heptachlor	0.122	0.133	-9.0	78	-0.09
72	T	Aldrin	0.125	0.134	-7.2	82	-0.09
73	T	Heptachlor Epoxide	0.052	0.052	0.0	76	-0.09
74	T	Endosulfan I	0.031	0.034	-9.7	78	-0.09
75	T	4,4'-DDE	0.195	0.198	-1.5	75	-0.09
76	T	Dieldrin	0.166	0.168	-1.2	76	-0.09
77	T	Endrin	0.029	0.031	-6.9	76	-0.09
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-18.31#
79	T	4,4'-DDD	0.358	0.348	2.8	73	-0.09

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.046	0.043	6.5	65	-0.10
81	T	4,4'-DDT	0.247	0.233	5.7	66	-0.09
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-18.29#
83	T	Endrin Ketone	0.038	0.032	15.8	63	-0.09
84	T	Methoxychlor	0.471	0.446	5.3	65	-0.09
85	I	Chrysene-D12	1.000	1.000	0.0	69	-0.10
86	TM	Pyrene	1.476	1.753	-18.8	77	-0.09
87	TM	Butylbenzylphthalate	0.822	0.867	-5.5	70	-0.09
88	TM	Benzo[a]anthracene	1.173	1.210	-3.2	67	-0.10
89	TM	3,3'-Dichlorobenzidine	0.131	0.086	34.4#	42#	-0.10
90	TM	Chrysene	1.098	1.167	-6.3	70	-0.10
91	TM	Bis(2-ethylhexyl)phthalate	1.163	1.152	0.9	65	-0.09
92	S	4-Terphenyl-d14 (surr)	1.000	1.138	-13.8	74	-0.09
93	I	Perylene-D12	1.000	1.000	0.0	51	-0.10
94	TCM	Di-n-octylphthalate	2.715	2.949	-8.6	56	-0.09
95	TM	Benzo[b]fluoranthene	1.289	1.327	-2.9	51	-0.10
96	TM	Benzo[k]fluoranthene	1.390	1.654	-19.0	62	-0.10
97	TCM	Benzo[a]pyrene	1.041	1.130	-8.5	52	-0.10
98	TM	Indeno(1,2,3-c,d)pyrene	0.595	0.521	12.4	42#	-0.15
99	TM	Dibenzo[a,h]anthracene	0.583	0.507	13.0	40#	-0.16
100	TM	Benzo[g,h,i]perylene	0.686	0.636	7.3	43#	-0.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:18:42 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-15-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	187864	4.00 ug/mL	-0.07
18) Naphthalene-D8	8.08	136	755124	4.00 ug/mL	-0.08
33) Acenaphthene-d10	10.83	164	370172	4.00 ug/mL	-0.09
55) Phenanthrene-D10	13.19	188	586725	4.00 ug/mL	-0.09
85) Chrysene-D12	17.42	240	315119	4.00 ug/mL	-0.10
93) Perylene-D12	19.53	264	169826	4.00 ug/mL	-0.10
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	4.46	112	270487m	6.26 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 62.60%	
17) Phenol-d6 (surr)	5.77	99	402790	6.33 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 63.30%	
32) Nitrobenzene-d5 (surr)	7.02	128	153268	6.34 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 63.40%	
53) 2-Fluorobiphenyl (surr)	9.81	172	666813	6.52 ug/mL	-0.08
Spiked Amount 10.000			Recovery	= 65.20%	
54) 2,4,6-Tribromophenol (surr	12.11	330	66184	5.81 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 58.10%	
92) 4-Terphenyl-d14 (surr)	15.80	244	537972	6.83 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 68.30%	
Target Compounds					Qvalue
2) Pyridine	2.90	79	249463	6.84 ug/mL	95
3) N-Nitrosodimethylamine	2.92	74	178057	6.55 ug/mL	97
4) Phenol	5.78	94	480726	6.56 ug/mL	97
5) Bis(2-chloroethyl)ether	5.86	93	354205	6.22 ug/mL	98
6) 2-Chlorophenol	5.90	128	360497	6.24 ug/mL	97
7) Benzyl Alcohol	6.44	108	224729	6.11 ug/mL	97
8) 1,3-Dichlorobenzene	6.09	146	387349	6.37 ug/mL	99
9) 1,4-Dichlorobenzene	6.20	146	407963	6.38 ug/mL	97
10) 1,2-Dichlorobenzene	6.42	146	366799	6.44 ug/mL	99
11) 2-Methylphenol	6.64	107	279118	6.52 ug/mL	96
12) 3-, 4-Methylphenol	6.88	107	389650	6.42 ug/mL	99
13) Bis(2-chloroisopropyl)ethe	6.64	45	549382	6.74 ug/mL#	89
14) N-Nitrosodi-n-propylamine	6.84	70	194842	6.61 ug/mL	98
15) Hexachloroethane	6.90	117	135214	6.70 ug/mL	94
19) Nitrobenzene	7.04	77	340995	6.57 ug/mL	94
20) Isophorone	7.42	82	515992	6.36 ug/mL	99
21) 2-Nitrophenol	7.53	139	199421	6.36 ug/mL	98
22) 2,4-Dimethylphenol	7.67	122	285625	6.05 ug/mL	98
23) Benzoic Acid	7.92	122	111711m	4.74 ug/mL	
24) Bis(2-chloroethoxy)methane	7.79	93	390818	6.51 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:18:42 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25) 2,4-Dichlorophenol	7.92	162	266275	6.20	ug/mL	96
26) 1,2,4-Trichlorobenzene	8.01	180	302100	6.42	ug/mL	98
27) Naphthalene	8.11	128	974391	6.40	ug/mL	99
28) 4-Chloroaniline	8.34	127	89249m	5.88	ug/mL	
29) Hexachlorobutadiene	8.34	225	153152	6.61	ug/mL	99
30) 4-Chloro-3-methylphenol	9.08	107	269849	6.22	ug/mL	97
31) 2-Methylnaphthalene	9.20	142	748650	6.46	ug/mL	99
34) Hexachlorocyclopentadiene	9.46	237	29975	4.18	ug/mL	98
35) 2,4,6-Trichlorophenol	9.69	196	187598	6.29	ug/mL	99
36) 2,4,5-Trichlorophenol	9.76	196	202165	6.18	ug/mL	96
37) 2-Chloronaphthalene	9.96	162	586175	6.50	ug/mL	97
38) 2-Nitroaniline	10.19	65	162619	6.64	ug/mL	97
39) 3-Nitroaniline	10.88	138	18563	6.42	ug/mL#	78
40) 1-Methylnaphthalene	9.35	142	667685	6.45	ug/mL	97
41) Dimethylphthalate	10.51	163	650592	6.32	ug/mL	99
42) Acenaphthylene	10.61	152	889189	6.70	ug/mL	100
43) 2,6-Dinitrotoluene	10.58	165	142635	6.46	ug/mL	97
44) Acenaphthene	10.89	153	597607	6.52	ug/mL	99
45) 2,4-Dinitrophenol	11.03	184	67086	5.40	ug/mL#	84
46) 4-Nitrophenol	11.27	109	44693m	5.31	ug/mL	
47) Dibenzofuran	11.18	168	867052	6.34	ug/mL	99
48) 2,4-Dinitrotoluene	11.22	165	182379	6.34	ug/mL	97
49) Fluorene	11.71	166	641950	6.41	ug/mL	98
50) Diethylphthalate	11.64	149	642569	6.35	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.76	204	303438	6.39	ug/mL	100
52) 4-Nitroaniline	11.88	138	63346	6.22	ug/mL#	86
56) 4,6-Dinitro-2-methylphenol	11.87	198	87442	5.28	ug/mL#	90
57) Diphenylamine	11.96	169	364110	7.10	ug/mL	99
58) 4-bromophenyl phenyl ether	12.53	248	166339	6.66	ug/mL	98
59) Hexachlorobenzene	12.59	284	166754	6.47	ug/mL	97
60) Pentachlorophenol	12.95	266	77233	5.36	ug/mL	99
61) Phenanthrene	13.23	178	946090	6.41	ug/mL	100
62) Carbazole	0.00	167	0	N.D.	d	
63) Anthracene	13.31	178	919124	6.49	ug/mL	99
64) Azobenzene	12.00	77	662277	6.61	ug/mL	95
65) Di-n-Butylphthalate	14.27	149	1104235	6.44	ug/mL	99
66) Fluoranthene	15.13	202	846977	6.23	ug/mL	96
67) alpha-BHC	12.53	183	114914	6.59	ug/mL	99
68) beta-BHC	12.91	181	95879	6.44	ug/mL	97
69) gamma-BHC	13.01	183	98205	6.34	ug/mL	100
70) delta-BHC	13.41	183	87458	6.25	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:18:42 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.00	100	117167	6.52 ug/mL	90
72)	Aldrin	14.48	66	117586	6.39 ug/mL	87
73)	Heptachlor Epoxide	14.99	353	45674	6.04 ug/mL	96
74)	Endosulfan I	15.48	195	29926	6.53 ug/mL	89
75)	4,4'-DDE	15.73	246	174475	6.10 ug/mL	99
76)	Dieldrin	15.82	79	147939	6.08 ug/mL	93
77)	Endrin	15.82	263	26871	6.37 ug/mL	80
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	16.26	235	306111	5.83 ug/mL#	99
80)	Endosulfan Sulfate	16.70	272	37559	5.55 ug/mL	91
81)	4,4'-DDT	16.73	235	204701	5.65 ug/mL	85
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	17.30	317	28079	5.10 ug/mL	97
84)	Methoxychlor	17.40	227	392873	5.68 ug/mL	95
86)	Pyrene	15.48	202	828507	7.12 ug/mL	95
87)	Butylbenzylphthalate	16.65	149	409868	6.33 ug/mL	95
88)	Benzo[a]anthracene	17.40	228	572080	6.19 ug/mL	97
89)	3,3'-Dichlorobenzidine	17.44	252	40519	4.74 ug/mL#	95
90)	Chrysene	17.45	228	551783	6.38 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	17.61	149	544426	5.94 ug/mL	98
94)	Di-n-octylphthalate	18.59	149	751133	6.52 ug/mL	100
95)	Benzo[b]fluoranthene	19.00	252	338119	6.18 ug/mL	99
96)	Benzo[k]fluoranthene	19.04	252	421323	7.14 ug/mL	98
97)	Benzo[a]pyrene	19.45	252	287911	6.51 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	21.24	276	132598m	5.31 ug/mL	
99)	Dibenzo[a,h]anthracene	21.29	278	129057	5.08 ug/mL	99
100)	Benzo[g,h,i]perylene	21.74	276	161975	5.56 ug/mL	98

(#) = qualifier out of range (m) = manual integration

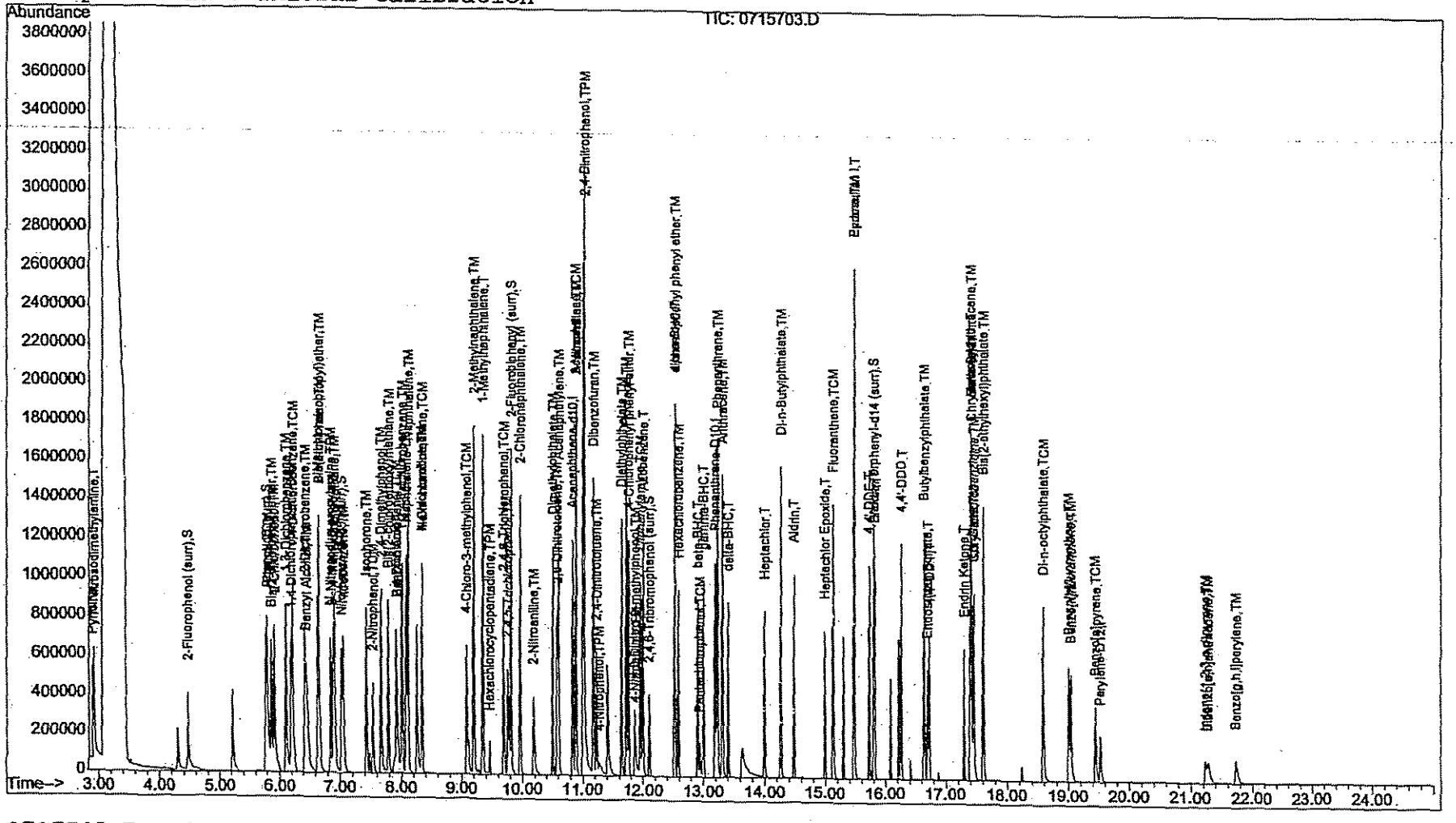
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D
Acq On : 15 Jul 2005 11:53 am
Sample : SVCVS6
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 15 15:37 2005

Vial: 3
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

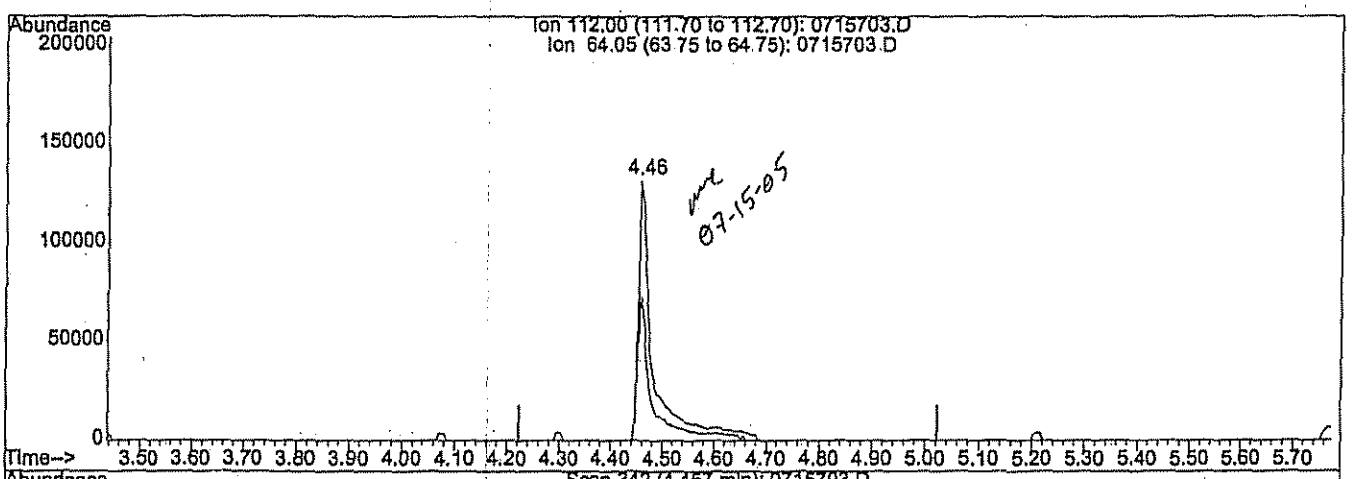
Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration

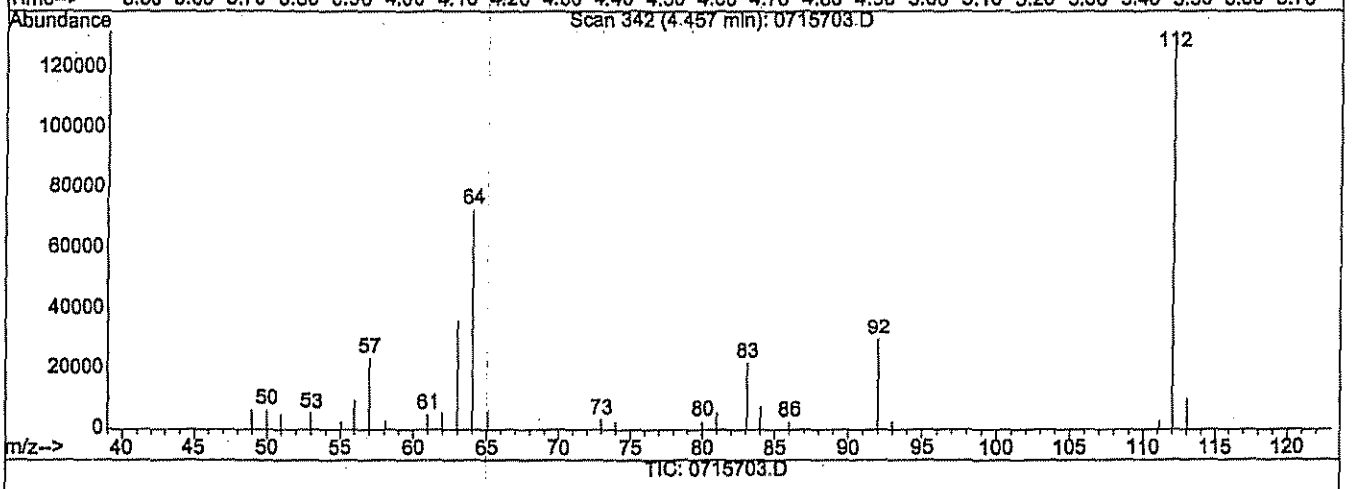


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





TIC: 0715703.D

(16) 2-Fluorophenol (surr) (S)

4.46min 6.26ug/mL m

response 270487

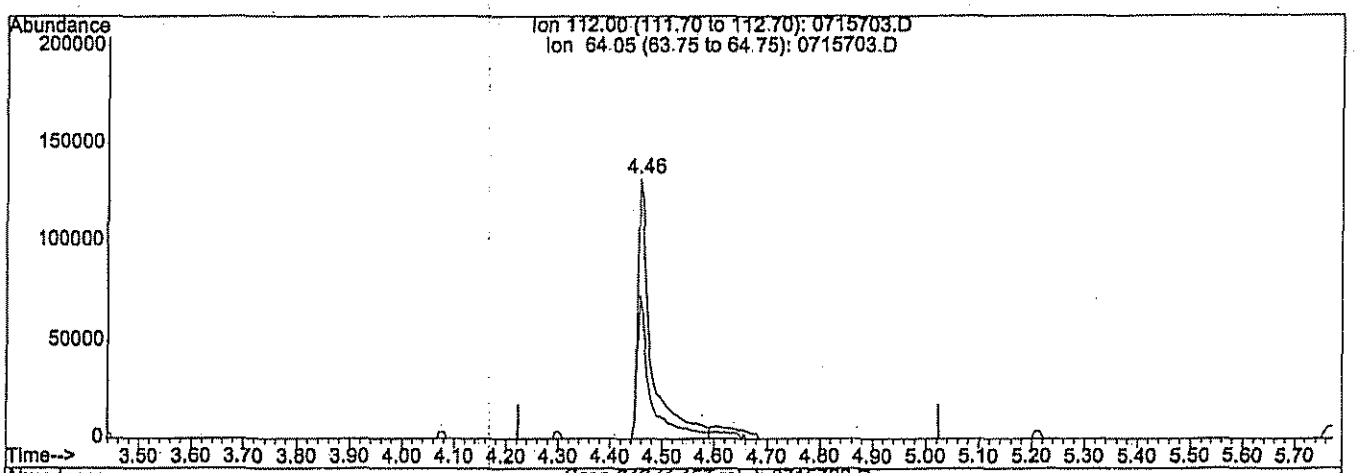
Ion	Exp%	Act%
112.00	100	100
64.05	50.20	49.08
0.00	0.00	0.00
0.00	0.00	0.00

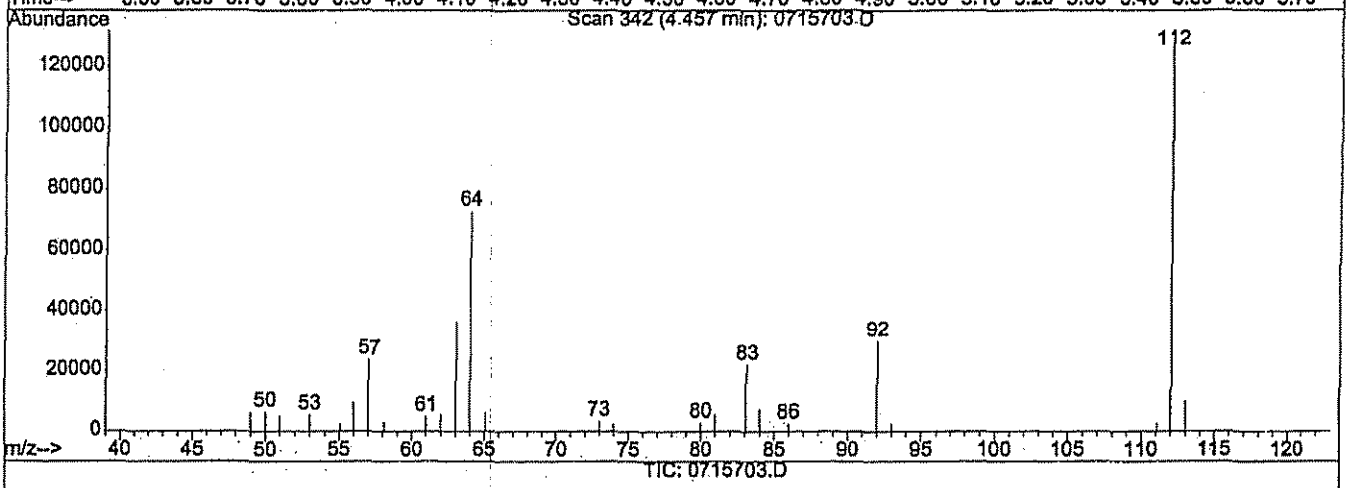
0715703.D 8270.M Fri Jul 15 15:35:23 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 12:18 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





(16) 2-Fluorophenol (surr) (S)

4.46min 5.65ug/mL

response 244224

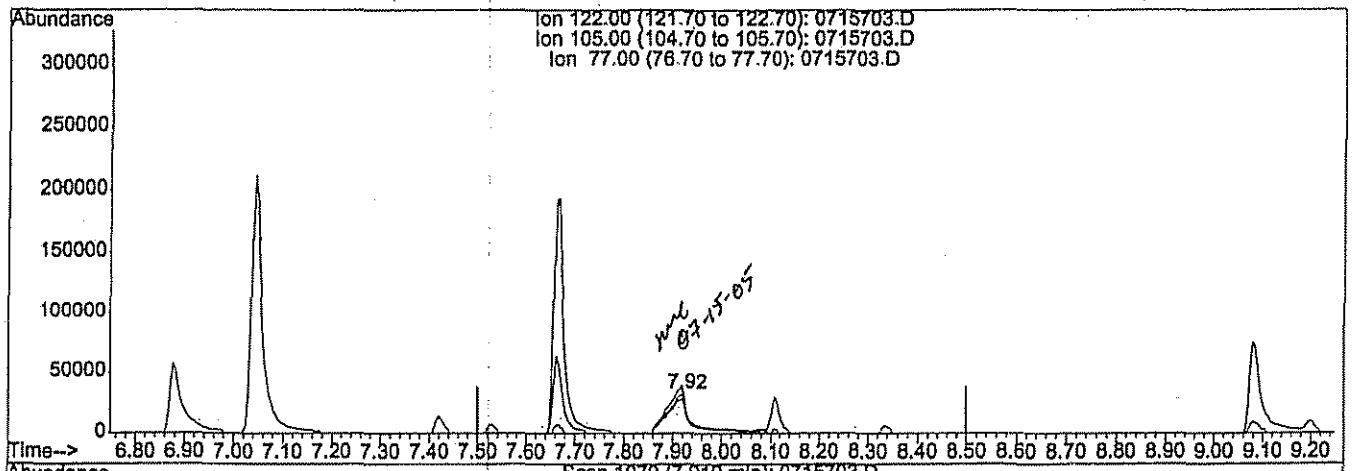
Ion	Exp%	Act%
112.00	100	100
64.05	50.20	54.36
0.00	0.00	0.00
0.00	0.00	0.00

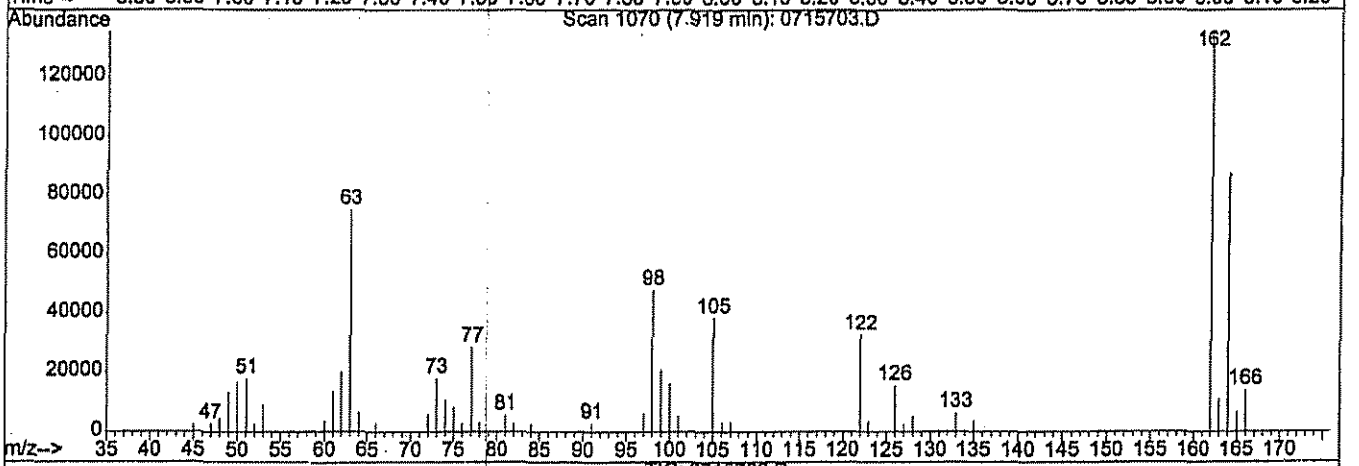
0715703.D 8270.M Fri Jul 15 15:35:19 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (T)

7.92min 4.74ug/mL m

response 111711

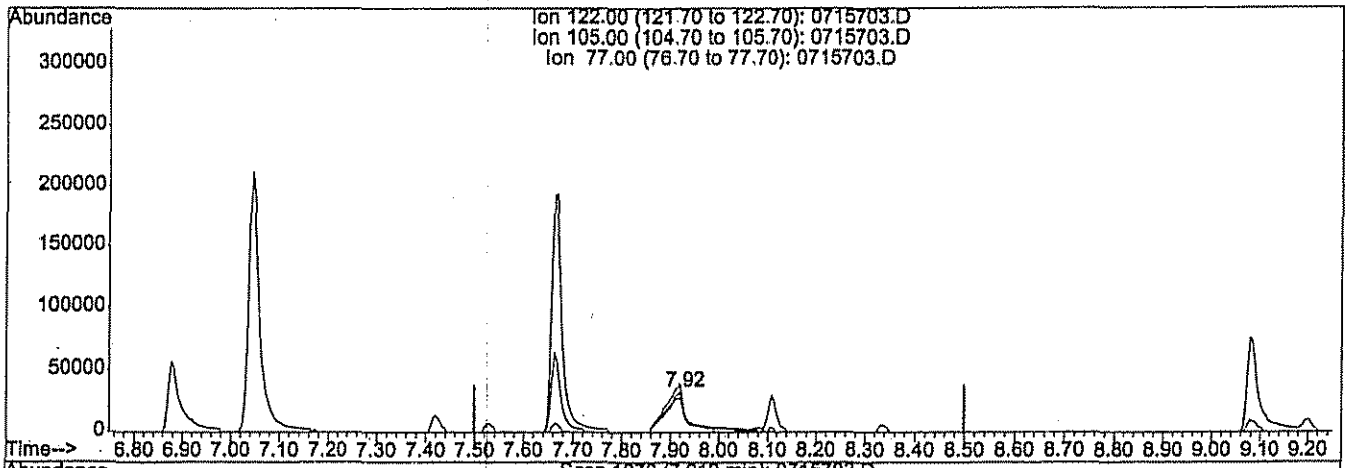
Ion	Exp%	Act%
122.00	100	100
105.00	56.30	109.15#
77.00	40.30	81.54#
0.00	0.00	0.00

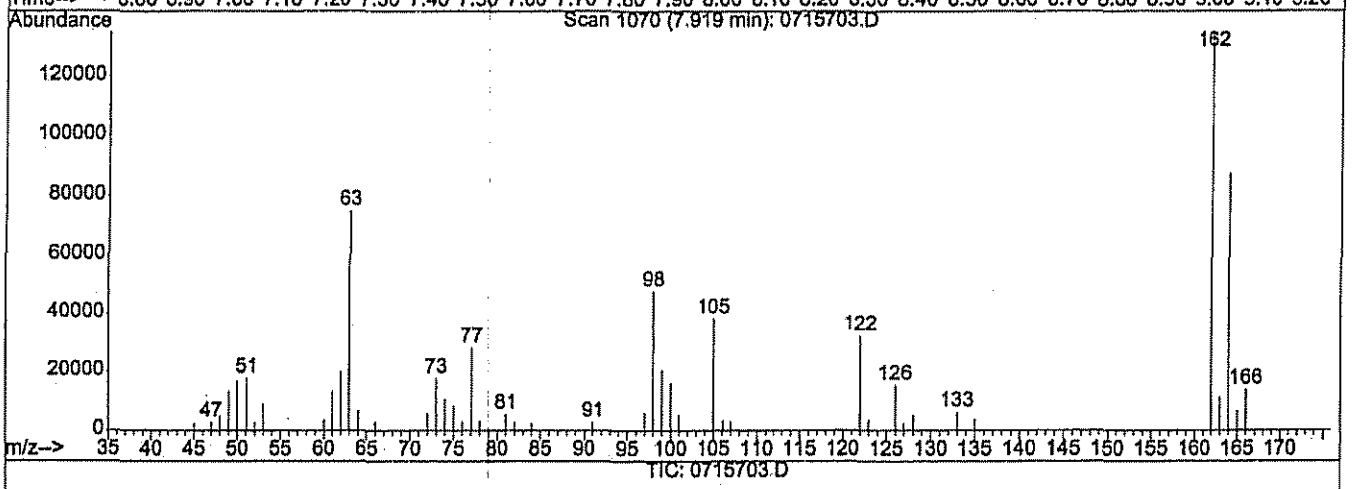
0715703.D 8270.M Fri Jul 15 15:35:36 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





(23) Benzoic Acid (T)

7.92min 4.38ug/mL

response 99074

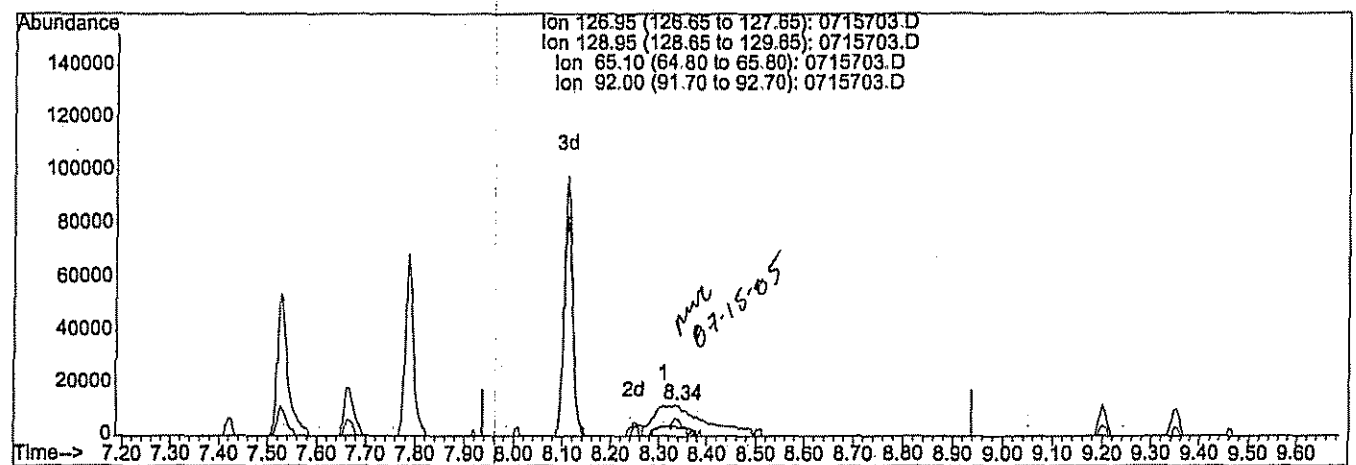
Ion	Exp%	Act%
122.00	100	100
105.00	56.30	123.07#
77.00	40.30	91.94#
0.00	0.00	0.00

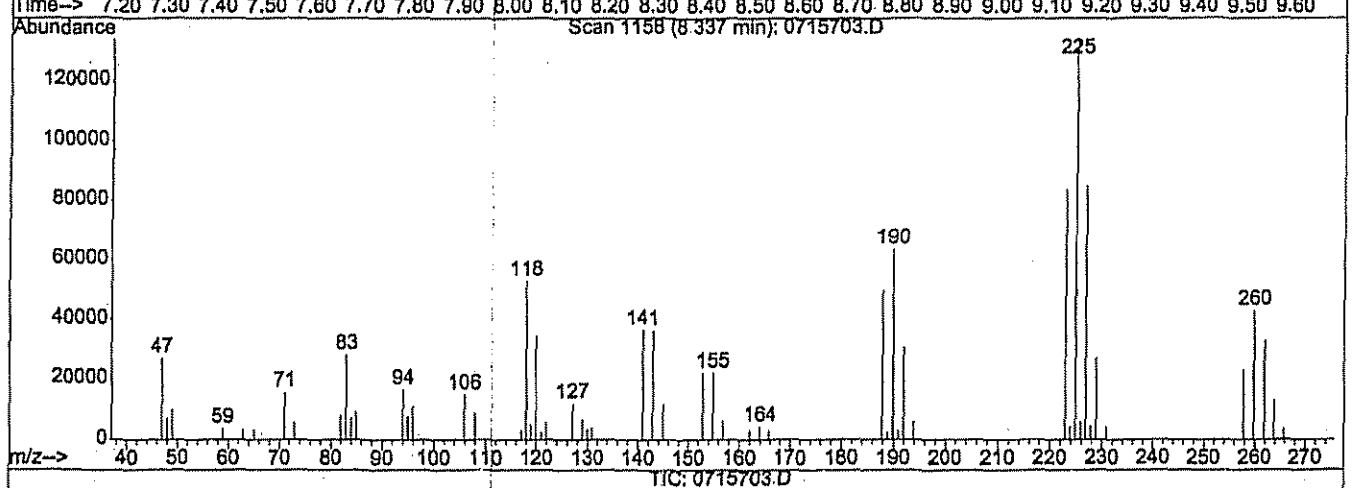
0715703.D 8270.M Fri Jul 15 15:35:31 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





TIC: 0715703.D

(28) 4-Chloroaniline (TM)

8.34min 5.88ug/mL m

response 89249

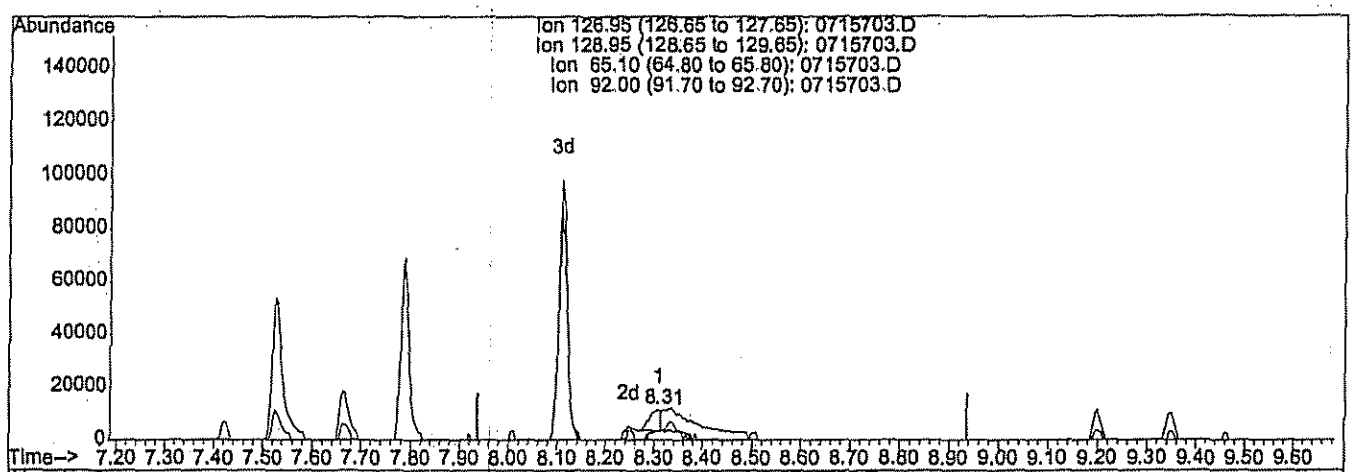
Ion	Exp%	Act%
126.95	100	100
128.95	31.80	57.60#
65.10	28.40	28.52
92.00	16.90	0.00#

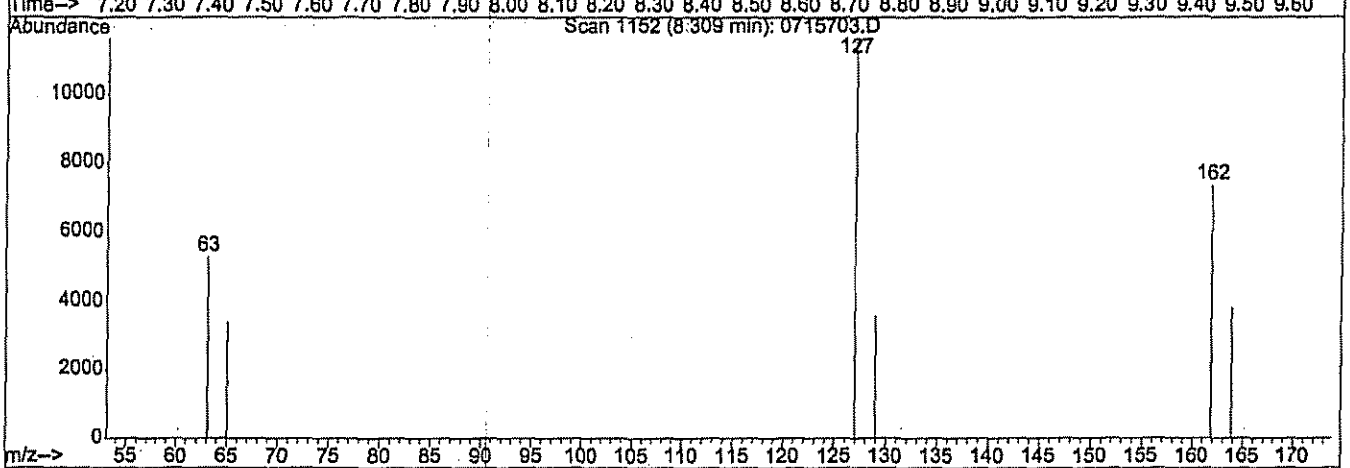
0715703.D 8270.M Fri Jul 15 15:35:49 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





TIC: 0715703.D

(28) 4-Chloroaniline (TM)

8.31min 1.78ug/mL

response 12639

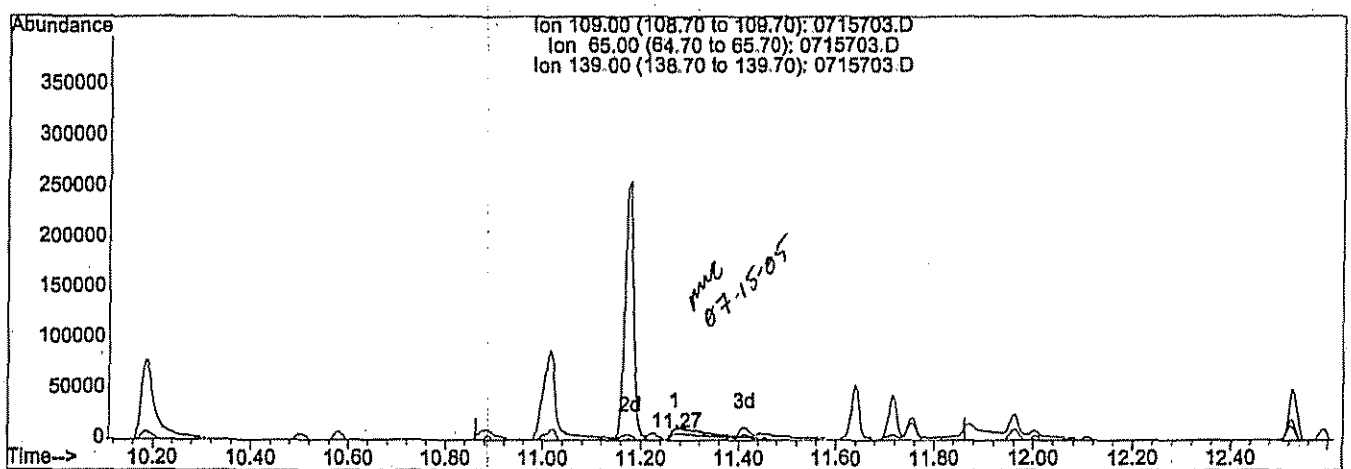
Ion	Exp%	Act%
126.95	100	100
128.95	31.80	45.25#
65.10	28.40	42.87#
92.00	16.90	0.00#

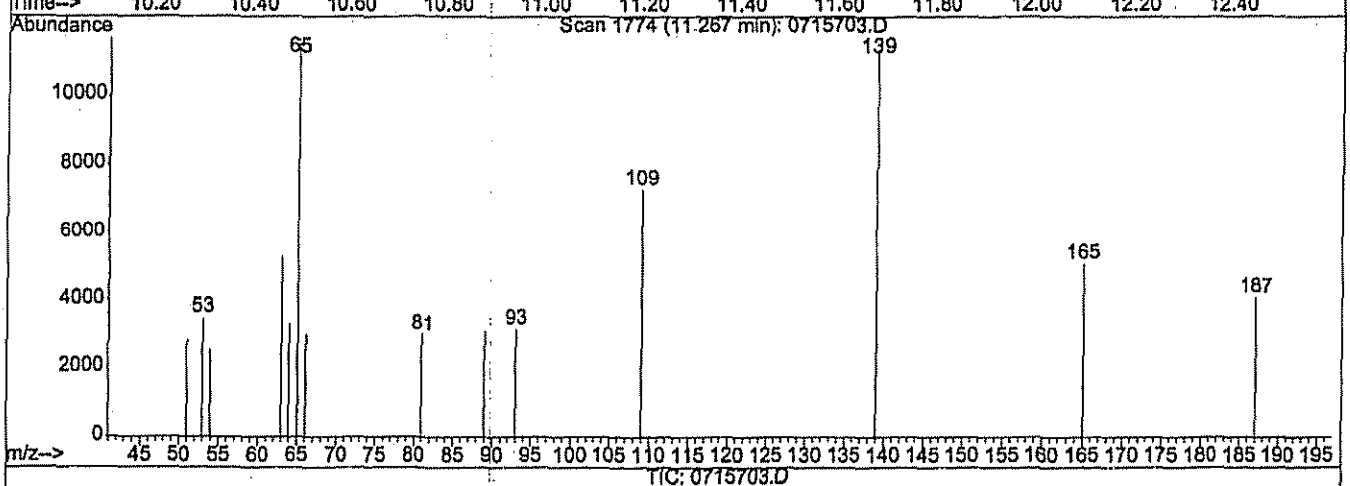
0715703.D 8270.M Fri Jul 15 15:35:42 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





(46) 4-Nitrophenol (TPM)

11.27min 5.31ug/mL m

response 44693

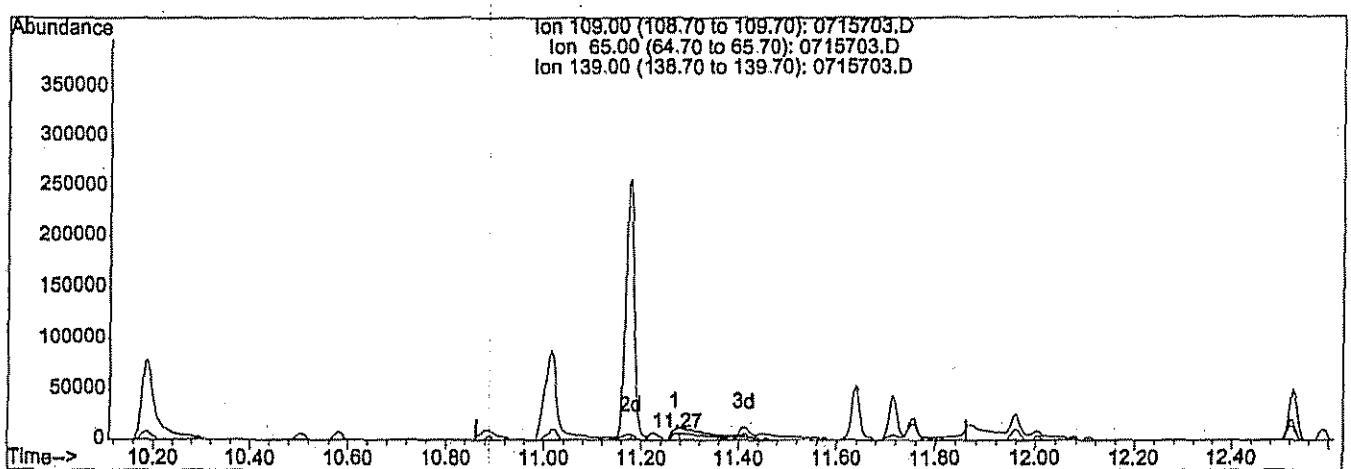
Ion	Exp%	Act%
109.00	100	100
65.00	147.60	160.77
139.00	180.40	156.50
0.00	0.00	0.00

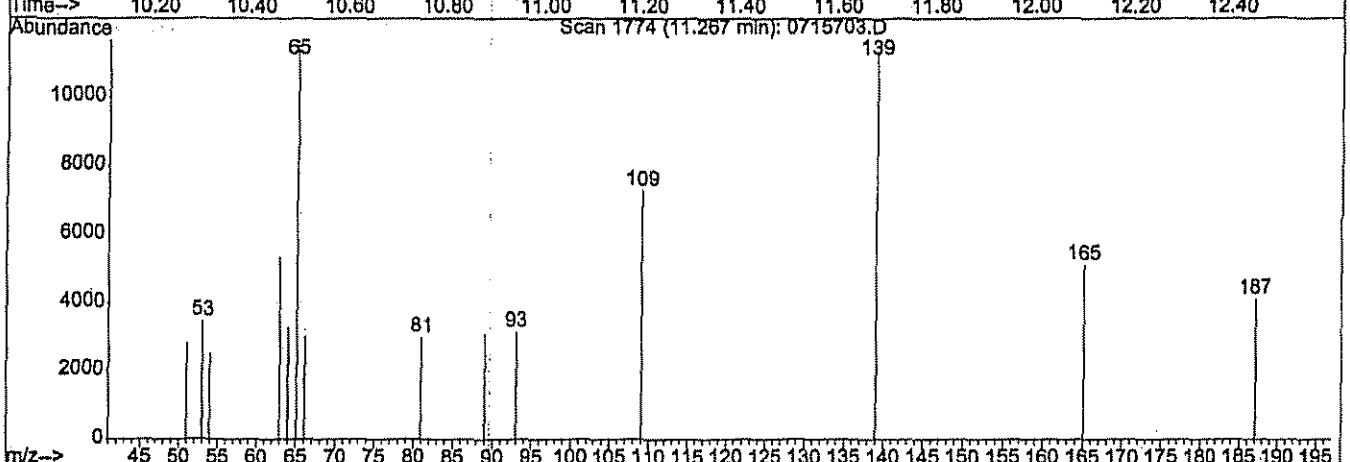
0715703.D 8270.M Fri Jul 15 15:36:14 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:35 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration





TIC: 0715703.D

(46) 4-Nitrophenol (TPM)

11.27min 1.85ug/mL

response 7279

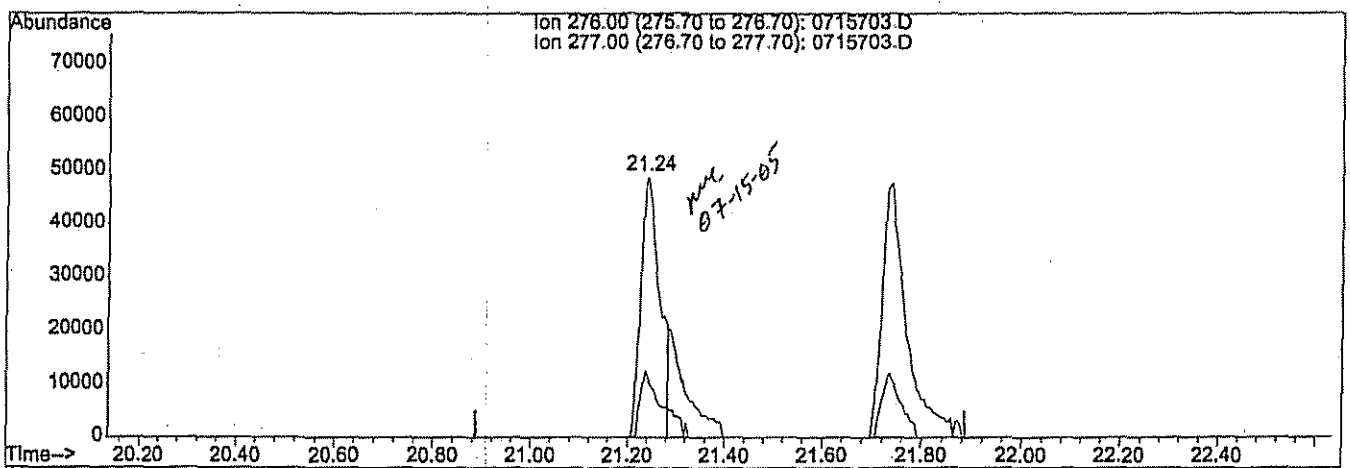
Ion	Exp%	Act%
109.00	100	100
65.00	147.60	160.77
139.00	180.40	156.50
0.00	0.00	0.00

0715703.D 8270.M Fri Jul 15 15:36:09 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:37 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

21.24min 5.31ug/mL m

response 132598

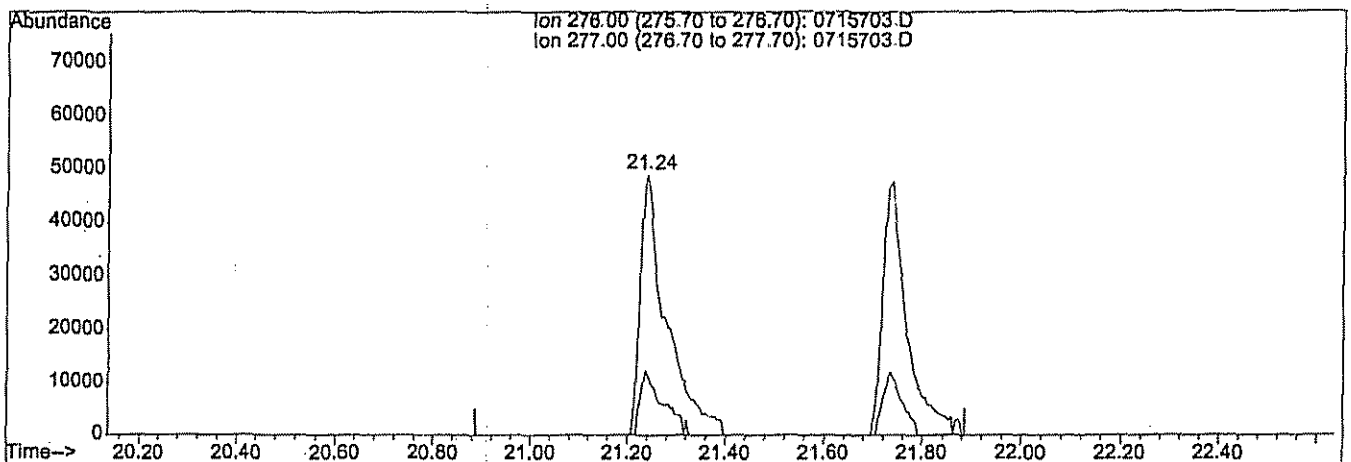
Ion	Exp%	Act%
276.00	100	100
277.00	23.30	23.35
0.00	0.00	0.00
0.00	0.00	0.00

0715703.D 8270.M Fri Jul 15 15:37:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7071505\0715703.D Vial: 3
Acq On : 15 Jul 2005 11:53 am Operator: MRC
Sample : SVCVS6 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 15:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Multiple Level Calibration



(98) Indeno(1,2,3-c,d)pyrene (TM)

21.24min 6.85ug/mL

response 184086

Ion	Exp%	Act%
276.00	100	100
277.00	23.30	23.35
0.00	0.00	0.00
0.00	0.00	0.00

0715703.D 8270.M Fri Jul 15 15:37:00 2005 ENV

625 QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715722.D Vial: 22
Acq On : 15 Jul 2005 10:46 pm Operator: MRC
Sample : PB3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 23:11:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07-18-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	177015	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	688370	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.83	164	348043	4.00	ug/mL	-0.09
55) Phenanthrene-D10	13.19	188	535048	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	205070	4.00	ug/mL	-0.09
93) Perylene-D12	19.54	264	96786	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.46	112	377027	9.25	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 92.50%			
17) Phenol-d6 (surr)	5.77	99	611234	10.20	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 102.00%			
32) Nitrobenzene-d5 (surr)	7.02	128	224653	10.20	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 102.00%			
53) 2-Fluorobiphenyl (surr)	9.81	172	979262	10.18	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 101.80%			
54) 2,4,6-Tribromophenol (surr	12.11	330	91274	8.53	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 85.30%			
92) 4-Terphenyl-d14 (surr)	15.80	244	657171m	12.82	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 128.20%			

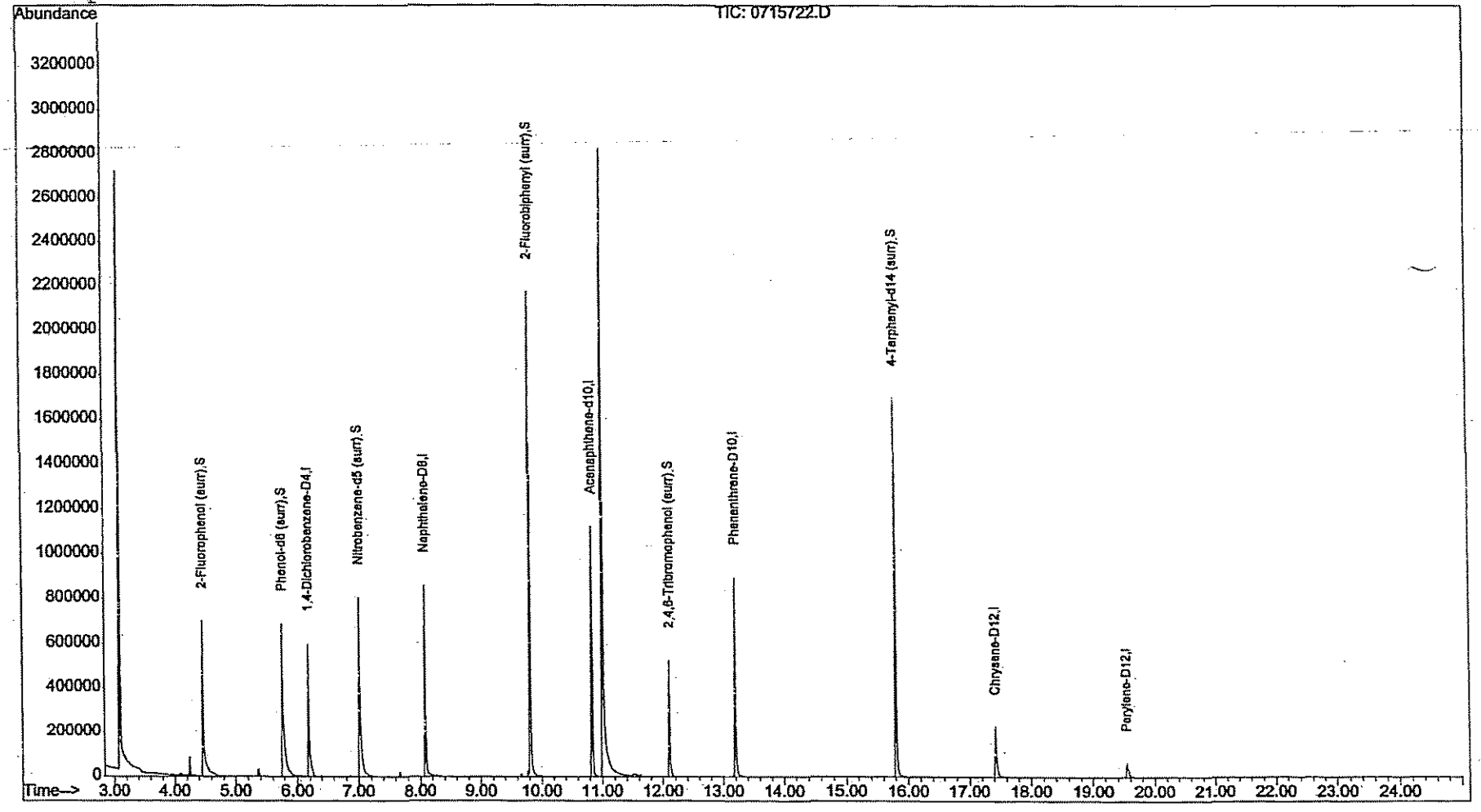
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715722.D Vial: 22
Acq On : 15 Jul 2005 10:46 pm Operator: MRC
Sample : PB3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 15:32 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7071505\0715722.D Vial: 22
Acq On : 15 Jul 2005 10:46 pm Operator: MRC
Sample : PB3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Toluene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.09	13.67 ug/mL	3059710	1,4-Dichlorobenzene-D4	6.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	95
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	Toluene	92	C7H8	000108-88-3	87
5	Toluene	92	C7H8	000108-88-3	87

****
Peak Number 2 2-Propenoic acid, 3-(1H-ind... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.01	13.42 ug/mL	4603930	Acenaphthene-d10	10.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 3-(1H-indol-3-...	187	C11H9NO2	001204-06-4	10
2	Benzene, 1-isocyanato-2-(trifluo...	187	C8H4F3NO	002285-12-3	9
3	3,5-Dimethyl-4-benzylisoxazole	187	C12H13NO	010557-84-3	9
4	Benzene, 1-isocyanato-3-(trifluo...	187	C8H4F3NO	000329-01-1	9
5	4-Fluoro-4,5-dichlorocyclohexane	170	C6H9Cl2F	000000-00-0	9

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 15 Jul 2005 10:46 pm
Data File: C:\MSDCHEM\1\DATA\7071505\0715722.D
Name: PB3238 x1
Misc: 625 [3520-3238]
Method: C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Toluene	3.09	13.7	ug/mL	3059710	1	6.18	895262	4.0
2-Propenoic acid,...	11.01	13.4	ug/mL	4603930	3	10.83	1372110	4.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715723.D Vial: 23
Acq On : 15 Jul 2005 11:21 pm Operator: MRC
Sample : LCS3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 23:46:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07.18.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	162806	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	666439	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.84	164	318750	4.00	ug/mL	-0.08
55) Phenanthrene-D10	13.20	188	509349	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	297263	4.00	ug/mL	-0.09
93) Perylene-D12	19.53	264	178815	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.46	112	314537	8.39	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 83.90%			
17) Phenol-d6 (surr)	5.77	99	549717	9.98	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 99.80%			
32) Nitrobenzene-d5 (surr)	7.02	128	219317	10.28	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 102.80%			
53) 2-Fluorobiphenyl (surr)	9.82	172	933404	10.59	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 105.90%			
54) 2,4,6-Tribromophenol (surr	12.11	330	104503	10.66	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 106.60%			
92) 4-Terphenyl-d14 (surr)	15.80	244	871018	11.72	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 117.20%			

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.91	74	252513	10.71	ug/mL	90
4) Phenol	5.79	94	607604	9.57	ug/mL	97
5) Bis(2-chloroethyl)ether	5.86	93	482072	9.77	ug/mL	98
6) 2-Chlorophenol	5.91	128	450094	8.98	ug/mL	97
7) Benzyl Alcohol	6.44	108	283210	8.81	ug/mL	99
8) 1,3-Dichlorobenzene	6.09	146	237105	4.50	ug/mL	98
9) 1,4-Dichlorobenzene	6.20	146	264234	4.77	ug/mL	99
10) 1,2-Dichlorobenzene	6.42	146	275036	5.57	ug/mL	99
11) 2-Methylphenol	6.64	107	366288	9.88	ug/mL	94
12) 3-, 4-Methylphenol	6.89	107	917285	17.44	ug/mL#	88
13) Bis(2-chloroisopropyl)ethe	6.64	45	728114	10.31	ug/mL#	88
14) N-Nitrosodi-n-propylamine	6.84	70	307191	12.02	ug/mL	94
15) Hexachloroethane	6.90	117	72954	4.17	ug/mL	96
19) Nitrobenzene	7.05	77	495570	10.82	ug/mL	96
20) Isophorone	7.42	82	911064	12.72	ug/mL	99
21) 2-Nitrophenol	7.53	139	256840	9.28	ug/mL	97
22) 2,4-Dimethylphenol	7.67	122	349969	8.40	ug/mL	99
23) Benzoic Acid	7.94	122	68342	3.76	ug/mL#	1
24) Bis(2-chloroethoxy)methane	7.79	93	564398	10.66	ug/mL	99
25) 2,4-Dichlorophenol	7.92	162	349935	9.23	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715723.D Vial: 23
Acq On : 15 Jul 2005 11:21 pm Operator: MRC
Sample : LCS3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 23:46:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
26) 1,2,4-Trichlorobenzene	8.01	180	335244	8.08 ug/mL	95
27) Naphthalene	8.11	128	1222778	9.10 ug/mL	100
28) 4-Chloroaniline	8.28	127	258767	12.54 ug/mL	99
29) Hexachlorobutadiene	8.34	225	145173	7.10 ug/mL	99
30) 4-Chloro-3-methylphenol	9.08	107	371765	9.71 ug/mL	97
31) 2-Methylnaphthalene	9.20	142	932644	9.12 ug/mL	99
34) Hexachlorocyclopentadiene	9.47	237	44400	6.59 ug/mL	98
35) 2,4,6-Trichlorophenol	9.69	196	250591	9.75 ug/mL	97
36) 2,4,5-Trichlorophenol	9.76	196	270351	9.60 ug/mL	98
37) 2-Chloronaphthalene	9.96	162	833597	10.73 ug/mL	98
38) 2-Nitroaniline	10.19	65	253589	12.02 ug/mL	92
39) 3-Nitroaniline	10.87	138	107634	17.38 ug/mL	96
40) 1-Methylnaphthalene	9.35	142	903087	10.12 ug/mL	97
41) Dimethylphthalate	10.52	163	992203	11.19 ug/mL	99
42) Acenaphthylene	10.61	152	1377469	12.05 ug/mL	100
43) 2,6-Dinitrotoluene	10.59	165	226559	11.92 ug/mL	93
44) Acenaphthene	10.89	153	894520	11.34 ug/mL	99
45) 2,4-Dinitrophenol	11.03	184	109787	10.26 ug/mL#	83
46) 4-Nitrophenol	11.27	109	59789	7.59 ug/mL	91
47) Dibenzofuran	11.18	168	1181952	10.04 ug/mL	99
48) 2,4-Dinitrotoluene	11.23	165	290244	11.72 ug/mL	97
49) Fluorene	11.72	166	982523	11.40 ug/mL	99
50) Diethylphthalate	11.64	149	1027440	11.79 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.76	204	455675	11.15 ug/mL	98
52) 4-Nitroaniline	11.89	138	95232	10.33 ug/mL	93
56) 4,6-Dinitro-2-methylphenol	11.87	198	150536	10.55 ug/mL#	87
57) Diphenylamine	11.97	169	761709	17.10 ug/mL	99
58) 4-bromophenyl phenyl ether	12.53	248	247007	11.39 ug/mL	96
59) Hexachlorobenzene	12.59	284	255252	11.41 ug/mL#	91
60) Pentachlorophenol	12.95	266	96871	7.36 ug/mL	99
61) Phenanthrene	13.24	178	1442946	11.26 ug/mL	99
63) Anthracene	13.32	178	1369668	11.14 ug/mL	99
64) Azobenzene	12.01	77	945961	10.87 ug/mL	95
65) Di-n-Butylphthalate	14.27	149	1730266	11.63 ug/mL	99
66) Fluoranthene	15.13	202	1368275	11.59 ug/mL	95
86) Pyrene	15.48	202	1396943	12.73 ug/mL#	93
87) Butylbenzylphthalate	16.65	149	663635	10.86 ug/mL	95
88) Benzo[a]anthracene	17.41	228	927884	10.65 ug/mL	99
89) 3,3'-Dichlorobenzidine	17.44	252	114317	8.98 ug/mL	96
90) Chrysene	17.46	228	936067	11.48 ug/mL	98
91) Bis(2-ethylhexyl)phthalate	17.61	149	867191	10.04 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715723.D Vial: 23
Acq On : 15 Jul 2005 11:21 pm Operator: MRC
Sample : LCS3238 x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 15 23:46:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Di-n-octylphthalate	18.59	149	1128364	9.30	ug/mL	100
95)	Benzo[b]fluoranthene	19.01	252	628428	10.90	ug/mL	98
96)	Benzo[k]fluoranthene	19.05	252	797599	12.84	ug/mL	98
97)	Benzo[a]pyrene	19.45	252	558739	12.01	ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	21.24	276	228315m	7.83	ug/mL	
99)	Dibenzo[a,h]anthracene	21.29	278	276682	9.27	ug/mL	98
100)	Benzo[g,h,i]perylene	21.73	276	343781	11.21	ug/mL	99

(#) = qualifier out of range (m) = manual integration

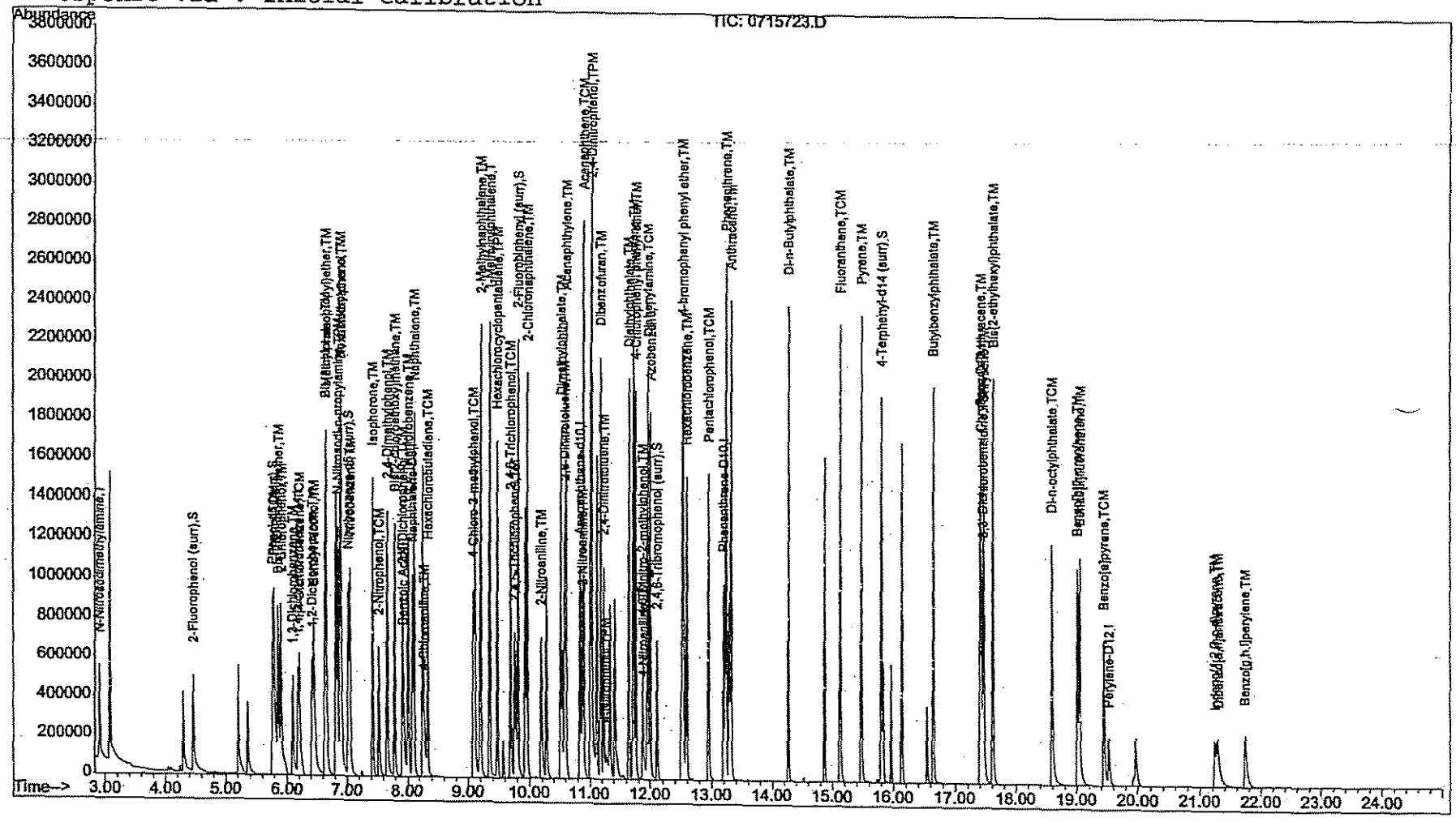
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715723.D
Acq On : 15 Jul 2005 11:21 pm
Sample : LCS3238 x1
Misc : 625 [3520-3238]
MS Integration Params: rteint.p
Quant Time: Jul 18 15:33 2005

Vial: 23
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



0715723.D 8270.M Mon Jul 18 15:44:12 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715724.D Vial: 24
Acq On : 15 Jul 2005 11:56 pm Operator: MRC
Sample : G161-2070-3H MS x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 00:21:37 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mrc 07-18-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	177094	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	713182	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.84	164	339839	4.00	ug/mL	-0.08
55) Phenanthrene-D10	13.20	188	537547	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	295488	4.00	ug/mL	-0.10
93) Perylene-D12	19.53	264	170008	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.46	112	352685m	8.65	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 86.50%			
17) Phenol-d6 (surr)	5.77	99	554096	9.24	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 92.40%			
32) Nitrobenzene-d5 (surr)	7.02	128	220631	9.67	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 96.70%			
53) 2-Fluorobiphenyl (surr)	9.81	172	935759	9.96	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 99.60%			
54) 2,4,6-Tribromophenol (surr	12.11	330	106072	10.15	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 101.50%			
92) 4-Terphenyl-d14 (surr)	15.80	244	813881	11.02	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 110.20%			

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.91	74	249063	9.72	ug/mL	97
4) Phenol	5.79	94	651699	9.44	ug/mL	99
5) Bis(2-chloroethyl)ether	5.86	93	472840	8.81	ug/mL	98
6) 2-Chlorophenol	5.90	128	448758	8.23	ug/mL	96
7) Benzyl Alcohol	6.44	108	281871	8.08	ug/mL	97
8) 1,3-Dichlorobenzene	6.09	146	249925	4.36	ug/mL	98
9) 1,4-Dichlorobenzene	6.20	146	276490	4.59	ug/mL	99
10) 1,2-Dichlorobenzene	6.42	146	281345	5.24	ug/mL	99
11) 2-Methylphenol	6.64	107	364580	9.04	ug/mL	95
12) 3-, 4-Methylphenol	6.89	107	914723	15.98	ug/mL#	89
13) Bis(2-chloroisopropyl)ethe	6.63	45	715215	9.31	ug/mL	94
14) N-Nitrosodi-n-propylamine	6.84	70	306696	11.03	ug/mL	97
15) Hexachloroethane	6.90	117	79650	4.19	ug/mL	90
19) Nitrobenzene	7.05	77	595953	12.16	ug/mL	97
20) Isophorone	7.42	82	894448	11.67	ug/mL	100
21) 2-Nitrophenol	7.53	139	265680	8.97	ug/mL	96
22) 2,4-Dimethylphenol	7.67	122	318859	7.15	ug/mL	99
23) Benzoic Acid	7.94	122	146035	5.96	ug/mL#	3
24) Bis(2-chloroethoxy)methane	7.79	93	553935	9.77	ug/mL	98
25) 2,4-Dichlorophenol	7.92	162	349643	8.62	ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715724.D
Acq On : 15 Jul 2005 11:56 pm
Sample : G161-2070-3H MS x1
Misc : 625 [3520-3238]
MS Integration Params: rteint.p
Quant Time: Jul 16 00:21:37 2005

Vial: 24
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	8.01	180	341799	7.70	ug/mL	97
27) Naphthalene	8.11	128	1211489	8.43	ug/mL	99
28) 4-Chloroaniline	8.29	127	174682	9.40	ug/mL	98
29) Hexachlorobutadiene	8.34	225	150208	6.86	ug/mL	97
30) 4-Chloro-3-methylphenol	9.08	107	381772	9.31	ug/mL	99
31) 2-Methylnaphthalene	9.20	142	918615	8.39	ug/mL	99
34) Hexachlorocyclopentadiene	9.47	237	35049	5.10	ug/mL	99
35) 2,4,6-Trichlorophenol	9.69	196	254156	9.28	ug/mL	100
36) 2,4,5-Trichlorophenol	9.76	196	274324	9.14	ug/mL	99
37) 2-Chloronaphthalene	9.96	162	853628	10.31	ug/mL	99
38) 2-Nitroaniline	10.19	65	126497	5.62	ug/mL	92
39) 3-Nitroaniline	10.87	138	68578	12.87	ug/mL	95
40) 1-Methylnaphthalene	9.35	142	890332	9.36	ug/mL	98
41) Dimethylphthalate	10.52	163	993301	10.51	ug/mL	99
42) Acenaphthylene	10.61	152	1366861	11.22	ug/mL	100
43) 2,6-Dinitrotoluene	10.59	165	222658	10.98	ug/mL	96
44) Acenaphthene	10.89	153	877793	10.44	ug/mL	99
45) 2,4-Dinitrophenol	11.03	184	113625	9.96	ug/mL#	90
46) 4-Nitrophenol	11.27	109	69876	8.21	ug/mL	86
47) Dibenzofuran	11.18	168	1155013	9.20	ug/mL	98
48) 2,4-Dinitrotoluene	11.23	165	297248	11.26	ug/mL	95
49) Fluorene	11.72	166	968639	10.54	ug/mL	100
50) Diethylphthalate	11.64	149	1022448	11.00	ug/mL	100
51) 4-Chlorophenyl phenyl ethe	11.76	204	449416	10.32	ug/mL	97
52) 4-Nitroaniline	11.88	138	39677	4.47	ug/mL#	59
56) 4,6-Dinitro-2-methylphenol	11.87	198	161029	10.69	ug/mL	90
57) Diphenylamine	11.96	169	704212	14.98	ug/mL	99
58) 4-bromophenyl phenyl ether	12.53	248	248196	10.84	ug/mL	97
59) Hexachlorobenzene	12.59	284	252305	10.69	ug/mL	93
60) Pentachlorophenol	12.95	266	108429	7.75	ug/mL	99
61) Phenanthrene	13.24	178	1420284	10.51	ug/mL	99
63) Anthracene	13.32	178	1358295	10.47	ug/mL	99
64) Azobenzene	12.00	77	932457	10.15	ug/mL	95
65) Di-n-Butylphthalate	14.27	149	1788602	11.39	ug/mL	99
66) Fluoranthene	15.13	202	1336182	10.72	ug/mL	97
86) Pyrene	15.48	202	1369391	12.56	ug/mL	95
87) Butylbenzylphthalate	16.65	149	646295	10.64	ug/mL	95
88) Benzo[a]anthracene	17.40	228	868202	10.02	ug/mL	98
89) 3,3'-Dichlorobenzidine	17.44	252	81887	7.20	ug/mL	93
90) Chrysene	17.46	228	883309	10.89	ug/mL	100
91) Bis(2-ethylhexyl)phthalate	17.61	149	845712	9.85	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715724.D Vial: 24
Acq On : 15 Jul 2005 11:56 pm Operator: MRC
Sample : G161-2070-3H MS x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 00:21:37 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Di-n-octylphthalate	18.59	149	1054008	9.14	ug/mL	100
95)	Benzo[b]fluoranthene	19.01	252	599329	10.94	ug/mL	99
96)	Benzo[k]fluoranthene	19.05	252	714543	12.10	ug/mL	99
97)	Benzo[a]pyrene	19.45	252	502809	11.36	ug/mL	100
98)	Indeno(1,2,3-c,d)pyrene	21.24	276	206855m	7.53	ug/mL	
99)	Dibenzo[a,h]anthracene	21.29	278	229381	8.22	ug/mL	99
100)	Benzo[g,h,i]perylene	21.73	276	297559	10.20	ug/mL	96

(#) = qualifier out of range (m) = manual integration

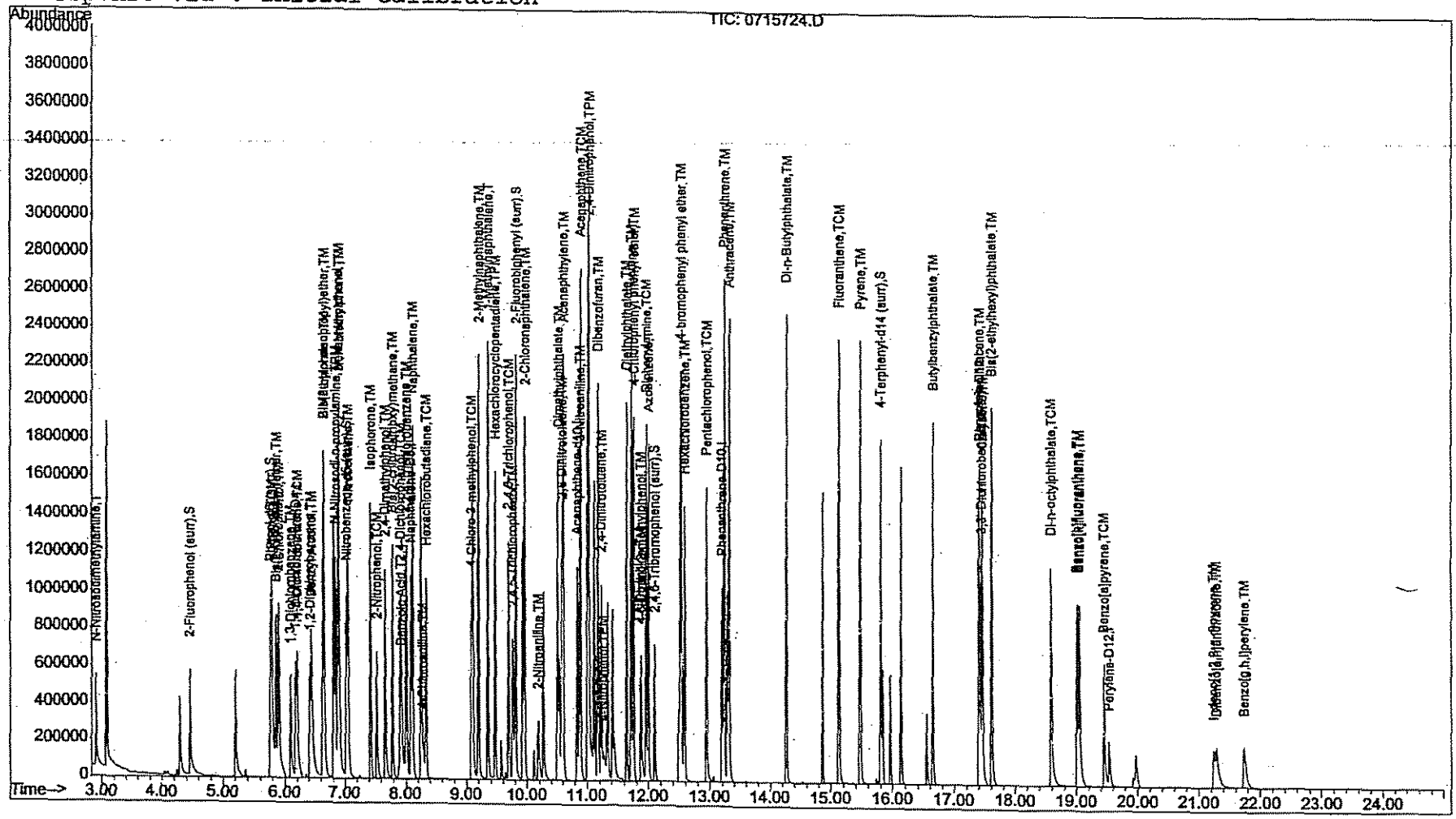
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715724.D
Acq On : 15 Jul 2005 11:56 pm
Sample : G161-2070-3H MS x1
Misc : 625 [3520-3238]
MS Integration Params: rteint.p
Quant Time: Jul 18 15:34 2005

Vial: 24
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



0715724.D 8270.M Mon Jul 18 15:44:17 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715725.D Vial: 25
Acq On : 16 Jul 2005 12:32 am Operator: MRC
Sample : G161-2070-3I MSD x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 00:57:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 07-18-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.18	152	169514	4.00	ug/mL	-0.07
18) Naphthalene-D8	8.08	136	688429	4.00	ug/mL	-0.08
33) Acenaphthene-d10	10.84	164	332904	4.00	ug/mL	-0.08
55) Phenanthrene-D10	13.20	188	522153	4.00	ug/mL	-0.09
85) Chrysene-D12	17.42	240	295722	4.00	ug/mL	-0.10
93) Perylene-D12	19.53	264	182619	4.00	ug/mL	-0.10
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	4.47	112	348010m	8.92	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	89.20%	
17) Phenol-d6 (surr)	5.77	99	531826	9.27	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	92.70%	
32) Nitrobenzene-d5 (surr)	7.02	128	209602	9.51	ug/mL	-0.07
Spiked Amount 10.000			Recovery	=	95.10%	
53) 2-Fluorobiphenyl (surr)	9.82	172	878716	9.55	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	95.50%	
54) 2,4,6-Tribromophenol (surr	12.11	330	96365	9.41	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	94.10%	
92) 4-Terphenyl-d14 (surr)	15.80	244	707721	9.57	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	95.70%	

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	2.92	74	244145	9.95	ug/mL#	93
4) Phenol	5.79	94	615345	9.31	ug/mL	98
5) Bis(2-chloroethyl)ether	5.86	93	480329	9.35	ug/mL	98
6) 2-Chlorophenol	5.91	128	443513	8.50	ug/mL	97
7) Benzyl Alcohol	6.44	108	270305	8.09	ug/mL	97
8) 1,3-Dichlorobenzene	6.09	146	247412	4.51	ug/mL	99
9) 1,4-Dichlorobenzene	6.20	146	277996	4.82	ug/mL	99
10) 1,2-Dichlorobenzene	6.42	146	280310	5.45	ug/mL	100
11) 2-Methylphenol	6.64	107	345787	8.95	ug/mL	97
12) 3-, 4-Methylphenol	6.89	107	866134	15.81	ug/mL#	88
13) Bis(2-chloroisopropyl)ethe	6.64	45	700362	9.52	ug/mL#	89
14) N-Nitrosodi-n-propylamine	6.84	70	286912	10.78	ug/mL	97
15) Hexachloroethane	6.90	117	78646	4.32	ug/mL	91
19) Nitrobenzene	7.05	77	569928	12.05	ug/mL	96
20) Isophorone	7.42	82	841494	11.37	ug/mL	100
21) 2-Nitrophenol	7.53	139	256440	8.97	ug/mL	95
22) 2,4-Dimethylphenol	7.67	122	280228	6.51	ug/mL	100
23) Benzoic Acid	7.94	122	160762	6.58	ug/mL#	15
24) Bis(2-chloroethoxy)methane	7.79	93	527356	9.64	ug/mL	98
25) 2,4-Dichlorophenol	7.92	162	331128	8.45	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715725.D Vial: 25
Acq On : 16 Jul 2005 12:32 am Operator: MRC
Sample : G161-2070-3I MSD x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 00:57:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	8.01	180	331559	7.73	ug/mL	96
27) Naphthalene	8.11	128	1175818	8.47	ug/mL	99
28) 4-Chloroaniline	8.29	127	187709	10.06	ug/mL	95
29) Hexachlorobutadiene	8.34	225	148281	7.02	ug/mL	98
30) 4-Chloro-3-methylphenol	9.08	107	351698	8.89	ug/mL	99
31) 2-Methylnaphthalene	9.20	142	876614	8.30	ug/mL	98
34) Hexachlorocyclopentadiene	9.47	237	24386	3.86	ug/mL	99
35) 2,4,6-Trichlorophenol	9.69	196	240149	8.95	ug/mL	98
36) 2,4,5-Trichlorophenol	9.76	196	258677	8.80	ug/mL	99
37) 2-Chloronaphthalene	9.96	162	780244	9.62	ug/mL	99
38) 2-Nitroaniline	10.19	65	157042	7.13	ug/mL	92
39) 3-Nitroaniline	10.87	138	70997	13.28	ug/mL	96
40) 1-Methylnaphthalene	9.35	142	847973	9.10	ug/mL	97
41) Dimethylphthalate	10.52	163	910780	9.83	ug/mL	100
42) Acenaphthylene	10.61	152	1263880	10.59	ug/mL	100
43) 2,6-Dinitrotoluene	10.59	165	205833	10.36	ug/mL	92
44) Acenaphthene	10.89	153	816038	9.91	ug/mL	99
45) 2,4-Dinitrophenol	11.03	184	108001	9.67	ug/mL#	83
46) 4-Nitrophenol	11.27	109	60528	7.39	ug/mL	95
47) Dibenzofuran	11.18	168	1074411	8.74	ug/mL	98
48) 2,4-Dinitrotoluene	11.23	165	271488	10.50	ug/mL	94
49) Fluorene	11.72	166	895639	9.95	ug/mL	99
50) Diethylphthalate	11.64	149	947430	10.41	ug/mL	99
51) 4-Chlorophenyl phenyl ethe	11.76	204	416995	9.77	ug/mL	97
52) 4-Nitroaniline	11.88	138	45773	5.14	ug/mL	88
56) 4,6-Dinitro-2-methylphenol	11.87	198	143928	9.83	ug/mL#	90
57) Diphenylamine	11.97	169	647450	14.18	ug/mL	98
58) 4-bromophenyl phenyl ether	12.53	248	226304	10.18	ug/mL	95
59) Hexachlorobenzene	12.59	284	232510	10.14	ug/mL	94
60) Pentachlorophenol	12.95	266	100002	7.40	ug/mL	97
61) Phenanthrene	13.24	178	1306664	9.95	ug/mL	99
63) Anthracene	13.32	178	1249789	9.91	ug/mL	99
64) Azobenzene	12.00	77	880700	9.87	ug/mL	94
65) Di-n-Butylphthalate	14.27	149	1646314	10.79	ug/mL	99
86) Pyrene	15.48	202	1259732	11.54	ug/mL	94
87) Butylbenzylphthalate	16.65	149	606275	9.97	ug/mL	94
88) Benzo[a]anthracene	17.41	228	812964	9.38	ug/mL	99
89) 3,3'-Dichlorobenzidine	17.43	252	79298	7.06	ug/mL	96
90) Chrysene	17.46	228	842808	10.39	ug/mL	98
91) Bis(2-ethylhexyl)phthalate	17.61	149	819452	9.53	ug/mL	99
94) Di-n-octylphthalate	18.59	149	1020965	8.24	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715725.D Vial: 25
Acq On : 16 Jul 2005 12:32 am Operator: MRC
Sample : G161-2070-3I MSD x1 Inst : MSD7
Misc : 625 [3520-3238] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 16 00:57:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7071505\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	Benzo[b]fluoranthene	19.01	252	574247	9.76 ug/mL	99
96)	Benzo[k]fluoranthene	19.05	252	712309	11.23 ug/mL	99
97)	Benzo[a]pyrene	19.45	252	492152	10.35 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	21.24	276	200598m	6.93 ug/mL	
99)	Dibenzo[a,h]anthracene	21.29	278	253200	8.41 ug/mL	98
100)	Benzo[g,h,i]perylene	21.74	276	304970	9.73 ug/mL	96

(#) = qualifier out of range (m) = manual integration

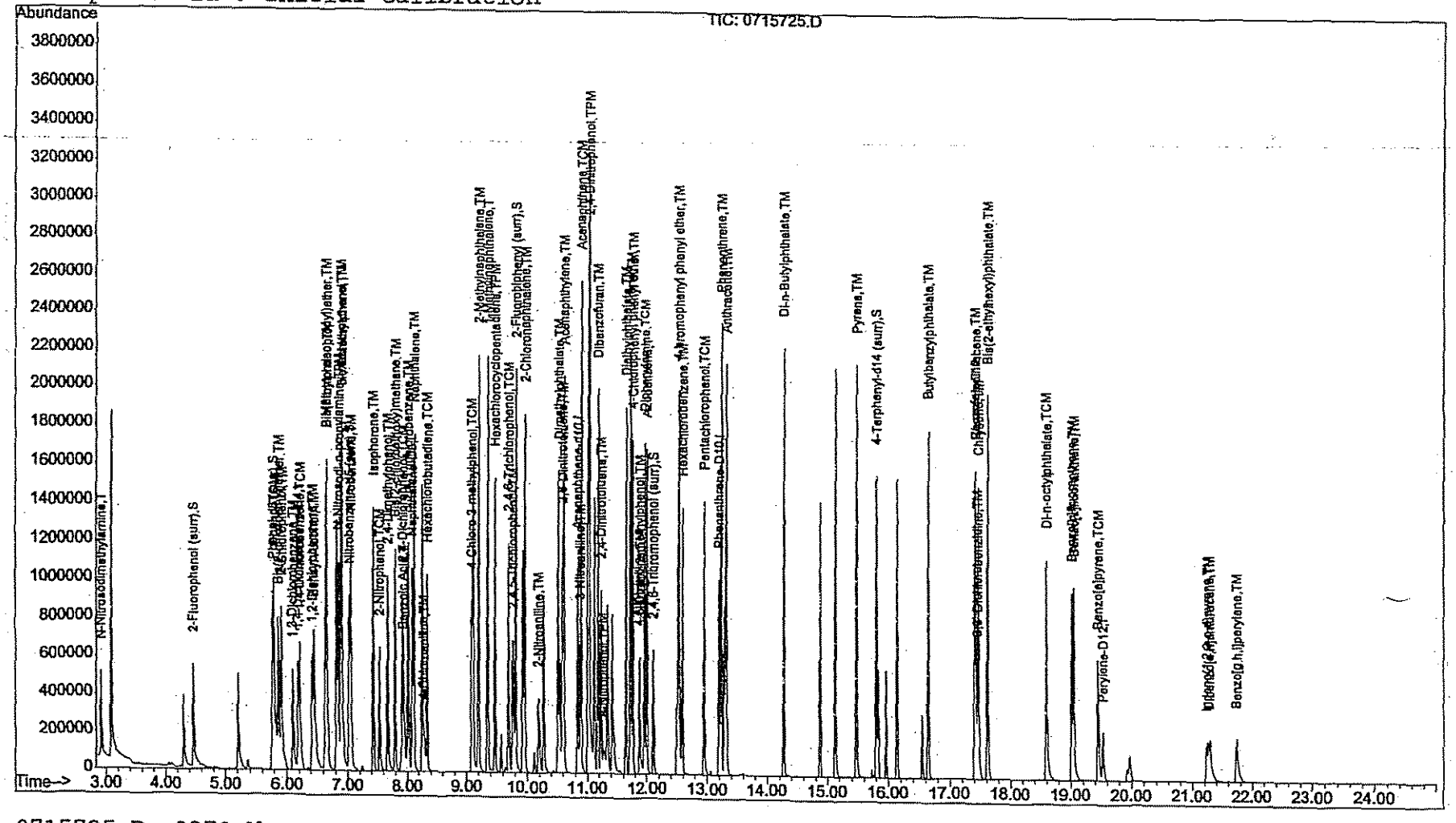
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7071505\0715725.D
Acq On : 16 Jul 2005 12:32 am
Sample : G161-2070-3I MSD x1
Misc : 625 [3520-3238]
MS Integration Params: rteint.p
Quant Time: Jul 18 15:35 2005

Vial: 25
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7071805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Jul 13 11:45:52 2005
Response via : Initial Calibration



0715725.D 8270.M Mon Jul 18 15:44:22 2005 ENV

625 Prep, Standard, Run Logs

3520 / 8270 WATER Log

Paradigm Analytical Lab

Batch: 3520/8270 - 3238

Lab ID	EXT	Date	CH2Cl2 Lot #	Initial Vol (mL)	Spike ID	Spike Vol (mL)	Final Vol (mL)	Tech's Init
pb3238	pb	2005-07-15	co493	500	SR: 8270srsvo3w20c	SR: .5	5	nio
G161-2070-3I	msd	2005-07-15	co493	233	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
G161-2070-3H	ms	2005-07-15	co493	233	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
lcs3238	lcs	2005-07-15	co493	500	QC: 8270svmso1w14e SR: 8270srsvo3w20c	QC: .5 SR: .5	5	nio
G122-2618-1H	dup	2005-07-15	co493	450	SR: 8270srsvo3w20c	SR: .5	5	nio
G106-528-2K		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G128-1561-1E		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G128-1561-2E		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G128-1561-3E		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G161-2069-1L		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G161-2069-2L		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-1G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-2G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-3G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-4G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-5G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-6G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-7G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G122-2618-8G		2005-07-15	co493	500	8270srsvo3w20c	5	5	nio
G161-2070-1L		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G161-2070-2J		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio
G161-2070-3G		2005-07-15	co493	500	8270srsvo3w20c	.5	5	nio

Comments: _____

Technician's Signature: _____ Date: _____

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7062405
Batch: 7062405

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W10-O
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W13-V

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0624701.D	DFTPP 50ng	6/24/2005 12:04	OK			MRC	
0624702.D	SVCAL48	6/24/2005 12:32				MRC	
0624703.D	SVCAL24	6/24/2005 13:06				MRC	
0624704.D	SVCAL12	6/24/2005 13:40	GOOD			MRC	
0624705.D	SVCAL8	6/24/2005 14:14	CURVE			MRC	
0624706.D	SVCAL6	6/24/2005 14:49				MRC	
0624707.D	SVCAL4	6/24/2005 15:23				MRC	
0624708.D	SVCAL2	6/24/2005 15:57				MRC	
0624709.D	SVCAL1	6/24/2005 16:32				MRC	
0624711.D	DFTPP 50ng	6/24/2005 17:01	OK			MRC	
0624712.D	SVCVS24	6/24/2005 17:25	OK			MRC	
0624713.D	SVCVS6	6/24/2005 17:58	OK			MRC	
0624714.D	PB3112 x1	6/24/2005 18:32		OK	OK	MRC	
0624715.D	LCS3112 x1	6/24/2005 19:08				MRC	
0624716.D	G510-223-4I MS x1	6/24/2005 19:42				MRC	
0624717.D	G510-223-4J MSD x1	6/24/2005 20:17				MRC	
0624718.D	G609-10-4I DUP x1	6/24/2005 20:51				MRC	
0624719.D	G510-223-1H x1	6/24/2005 21:24				MRC	
0624720.D	G510-223-2H x1	6/24/2005 21:59				MRC	
0624721.D	G510-223-3H x1	6/24/2005 22:33				MRC	

Analyst: MC

Page Number: 1376

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7062405
Batch: 7071505

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0715701.D	DFTPP 50ng	7/15/2005 10:57	OK			MRC	
0715702.D	SVCVS24	7/15/2005 11:20	OK			MRC	
0715703.D	SVCVS6	7/15/2005 11:53	OK			MRC	
0715704.D	PB3227 x1	7/15/2005 12:28		OK	OK	MRC	
0715705.D	LCS3227 x1	7/15/2005 13:02				MRC	
0715706.D	G122-2617-10H MS x1	7/15/2005 13:36				MRC	
0715707.D	G122-2617-10I MSD x1	7/15/2005 14:11				MRC	
0715708.D	G122-2617-10G x1	7/15/2005 14:46				MRC	
0715709.D	G161-2068-1G x1	7/15/2005 15:20				MRC	
0715710.D	G546-41-9C x1	7/15/2005 15:55				MRC	
0715711.D	G546-41-18C x1	7/15/2005 16:28				MRC	
0715712.D	G546-41-27C x1	7/15/2005 17:02				MRC	
0715713.D	G546-41-36C x1	7/15/2005 17:37				MRC	
0715714.D	PB3233 x1	7/15/2005 18:11				MRC	
0715715.D	LCS3233 x1	7/15/2005 18:44				MRC	
0715716.D	G204-469-3H MS x1	7/15/2005 19:19				MRC	
0715717.D	G204-469-3I MSD x1	7/15/2005 19:55				MRC	
0715718.D	G204-469-1G x1	7/15/2005 20:30				MRC	
0715719.D	G204-469-2G x1	7/15/2005 21:04				MRC	
0715720.D	G204-469-3G x1	7/15/2005 21:38				MRC	

Analyst: [illegible]

Page Number: 1398

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7062405
Batch: 7071505

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W14-J
CAL STD ID: SVMS01-W11-R
IS STD ID: SVMS01-W14-C

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0715721.D	G204-469-4G x1	7/15/2005 22:12		OK	OK	MRC	
0715722.D	PB3238 x1	7/15/2005 22:46				MRC	
0715723.D	LCS3238 x1	7/15/2005 23:21				MRC	
0715724.D	G161-2070-3H MS x1	7/15/2005 23:56				MRC	
0715725.D	G161-2070-3I MSD x1	7/16/2005 0:32				MRC	
0715726.D	G122-2618-1H DUP x1	7/16/2005 1:06				MRC	
0715727.D	G128-1561-1E x1	7/16/2005 1:40				MRC	
0715728.D	G128-1561-2E x1	7/16/2005 2:14				MRC	
0715729.D	G128-1561-3E x1	7/16/2005 2:50				MRC	
0715730.D	G161-2069-1L x1	7/16/2005 3:25				MRC	
0715731.D	G161-2069-2L x1	7/16/2005 3:59				MRC	
0715732.D	G161-2070-1L x1	7/16/2005 4:35				MRC	
0715733.D	G161-2070-2J x1	7/16/2005 5:09				MRC	
0715734.D	G161-2070-3G x1	7/16/2005 5:43				MRC	

Analyst: ML

Page Number: 1399

Metals Sample Raw Data

Sample/Batch Report

RML

User Name: rml
Computer Name: RML
Sample File: C:\elandata\Sample\072105a.sam
Report Date/Time: Friday, July 22, 2005 08:02:55

072105a

CURVE → MS071505-1

A/S Loc	Batch ID	Sample ID	Description	Sample Type	Init Quant	Prep Vol	Aliquot Vol	Diluted Vol	Solids Ratio
7		icv-Al							
9		icsA1 ✓							
10		icsB1 ✓							
2		lowstd							
3		ccv1 ✓							
5		cvs1 -Mg							
1		ccb1 ✓							
11		pb3254 x25 ✓							
12		lcs3254 x25 ✓							
13		lcd3254 x25 ✓							
14		G211-1833-1G x25							
15		G211-1833-1H ms x25							
16		G211-1833-1I msd x25							
17		pb3246 x25 ✓							
18		lcs3246 x25 ✓							
19		lcd3246 x25 ✓							
20		G460-26-3K x25							
3		ccv2 ✓							
1		ccb2 ✓							
21		G460-26-3L ms							
22		G460-26-3M msd x25							
23		G460-26-1K x25							
24		G460-26-2K x25							
25		G161-2070-1N x25							
26		G161-2069-1N x25							
27		G161-2069-2P x25							
28		G161-2069-2Q dup x25							
29		G161-2069-2Q dup x125 SD							
30		G161-2069-2Q dup x25 PDS							
3		ccv3 ✓							
1		ccb3							
9		icsA2 ✓							
10		icsB2 ✓							
3		ccv4 ✓							
5		cvs2 -Na, Mg, Al							
1		ccb4 ✓							

Sc → 113682 - 94735 - 28421

Ge → 59288 - 49407 - 14822

Rh → 81660 - 68050 - 20415

Quantitative Analysis - Summary

Sample ID: Blank

Autosampler Position: 1
Sample Date/Time: Thursday, July 21, 2005 16:59:01
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\Blank.001

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	19266.170					ppb
	Mg	24	3548.594					ppb
	Al	27	13739.849					ppb
	K	39	512112.851					ppb
	Ca	43	571.318					ppb
>	Sc	45	94734.786					ppb
	Fe	57	9736.027					ppb
>	Ge	72	49406.727					ppb
>	Lu	175	68050.248					ppb
	Pb	208	544.885					ppb

Quantitative Analysis - Summary

Sample ID: Standard 1

Autosampler Position: 2
Sample Date/Time: Thursday, July 21, 2005 17:02:30
Sample File: c:\elandata\Sample\050305a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: c:\elandata\dataset\072105\Standard 1 002

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	21099.171	0.016				ppb
	Mg	24	1854.947	-0.018				ppb
	Al	27	6056.824	-0.082				ppb
	K	39	532104.884	0.132				ppb
	Ca	43	1530.183	0.010				ppb
>	Sc	45	96114.533	96114.533				ppb
	Fe	57	9740.035	-0.000				ppb
>	Ge	72	49471.569	49471.569				ppb
>	Lu	175	68146.865	68146.865				ppb
	Pb	208	2792.038	0.033	**0.094**	0.004	3.7	ppb

Quantitative Analysis - Summary

Sample ID: Standard 2

Autosampler Position: 3
Sample Date/Time: Thursday, July 21. 2005 17:05:58
Sample File: c:\elandata\Sample\050305a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: c:\elandata\dataset\072105\Standard 2.003

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	20075.952	0.005				ppb
	Mg	24	2234.890	-0.014				ppb
	Al	27	7079.545	-0.072				ppb
	K	39	529404.484	0.090				ppb
	Ca	43	694.949	0.001				ppb
>	Sc	45	96360.877	96360.877				ppb
	Fe	57	9812.055	0.001				ppb
>	Ge	72	49653.399	49653.399				ppb
>	Lu	175	67991.025	67991.025				ppb
	Pb	208	119216.277	1.745	**5.000**	0.049	1.0	ppb

Quantitative Analysis - Summary

Sample ID: Standard 3
Autosampler Position: 4
Sample Date/Time: Thursday, July 21, 2005 17:09:26
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\Standard 3 004

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Na	23	59741.757	0.412	10.000	0.193	1.9	ppb
	Mg	24	28440.874	0.256	10.000	0.087	0.9	ppb
	Al	27	45898.306	0.328	10.000	0.181	1.8	ppb
	K	39	592810.779	0.704	10.000	0.773	7.7	ppb
	Ca	43	1135.795	0.006	10.000	0.514	5.1	ppb
>	Sc	45	97035.456	97035.456				ppb
	Fe	57	12140.856	0.049	10.000	0.486	4.9	ppb
>	Ge	72	49324.008	49324.008				ppb
>	Lu	175	68135.276	68135.276				ppb
	Pb	208	234606.568	3.435	9.968	0.080	0.8	ppb

Quantitative Analysis - Summary

Sample ID: Standard 4

Autosampler Position: 5
Sample Date/Time: Thursday, July 21, 2005 17:12:54
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\Standard 4 005

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
[	Na	23	1692029.415	16.804	**499.955**	15.594	3.1	ppb
|	Mg	24	1345751.834	13.491	**500.011**	2.553	0.5	ppb
|	Al	27	1763144.684	17.580	**500.013**	3.841	0.8	ppb
|	K	39	3326260.035	28.029	**499.949**	11.010	2.2	ppb
|	Ca	43	7723.757	0.072	**499.409**	8.443	1.7	ppb
]>	Sc	45	99475.655	99475.655				ppb
[	Fe	57	126027.154	2.266	**499.983**	10.030	2.0	ppb
]>	Ge	72	51183.517	51183.517				ppb
[>	Lu	175	70279.284	70279.284				ppb
[	Pb	208	1004.056	0.006	**0.018**	0.002	11.2	ppb

Quantitative Analysis - Summary

Sample ID: Standard 5
Autosampler Position: 6
Sample Date/Time: Thursday, July 21, 2005 17:16:23
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\Standard 5 006

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	3329888 001	32 290	**991.883**	6 216	0 6	ppb
	Mg	24	2279342 566	22 206	**958.752**	4 659	0 5	ppb
	Al	27	3305774 743	32 113	**981.375**	4 285	0 4	ppb
	K	39	6310724 005	56 193	**1000.459**	18 681	1 9	ppb
	Ca	43	15231 501	0 143	**998.929**	11 110	1 1	ppb
>	Sc	45	102486 610	102486 610				ppb
	Fe	57	250410 002	4 413	**994.671**	15 878	1 6	ppb
>	Ge	72	54305 305	54305 305				ppb
>	Lu	175	74986 720	74986 720				ppb
	Pb	208	554 453	-0 001	**-0.002**	0 001	61 8	ppb

Quantitative Analysis - Summary

Sample ID: icv
Autosampler Position: 7
Sample Date/Time: Thursday, July 21, 2005 17:19:53
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\icv 007

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	16653474 466	156.574	**4809.608**	66 007	1 4	ppb
	Mg	24	11519089.159	108 399	**4680.235**	72 991	1 6	ppb
	Al	27	814846 729	7 526	**230.003**	2 312	1 0	ppb
	K	39	30125956 807	278 206	**4953.197**	46 385	0 9	ppb
	Ca	43	69265 032	0 646	**4524.652**	47 065	1 0	ppb
>	Sc	45	106216.626	106216.626				ppb
	Fe	57	35958.599	0.458	**103.142**	1.379	1 3	ppb
>	Ge	72	54932.766	54932.766				ppb
>	Lu	175	77054 244	77054 244				ppb
	Pb	208	129307 212	1 670	**4.846**	0 049	1 0	ppb

Quantitative Analysis - Summary

Sample ID: icsA1
Autosampler Position: 9
Sample Date/Time: Thursday, July 21, 2005 17:23:21
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\icsA1 008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	15896942.502	155.734	**4783.799**	72.855	1.5	ppb
	Mg	24	10872522.414	106.604	**4602.738**	57.685	1.3	ppb
	Al	27	15738103.834	154.224	**4713.092**	51.591	1.1	ppb
	K	39	28717527.990	276.277	**4918.840**	93.223	1.9	ppb
	Ca	43	66483.496	0.646	**4524.500**	34.098	0.8	ppb
>	Sc	45	101964.695	101964.695				ppb
	Fe	57	1143431.482	20.976	**4727.751**	15.633	0.3	ppb
>	Ge	72	54003.005	54003.005				ppb
>	Lu	175	74168.366	74168.366				ppb
	Pb	208	1122.821	0.007	**0.021**	0.001	4.9	ppb

Quantitative Analysis - Summary

Sample ID: icsB1

Autosampler Position: 10
Sample Date/Time: Thursday, July 21, 2005 17:26:48
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\icsB1 009

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	Conc. Mean	Conc SD	Conc RSD	Sample Unit
	Na	23	15513126 602	172 132	**5287.508**	209 219	4 0	ppb
	Mg	24	10699414 753	118 823	**5130.313**	207 815	4 1	ppb
	Al	27	15416815 995	171 147	**5230.263**	226 679	4 3	ppb
	K	39	27887809 257	304 417	**5419.845**	224 495	4 1	ppb
	Ca	43	65415 902	0.721	**5046.834**	190 634	3 8	ppb
>	Sc	45	90168.776	90168 776				ppb
	Fe	57	1082307.649	20 029	**4514.306**	107 807	2 4	ppb
>	Ge	72	53544 716	53544 716				ppb
>	Eu	175	73385 978	73385 978				ppb
	Pb	208	77465 578	1 048	**3.041**	0 065	2 1	ppb

Quantitative Analysis - Summary

Sample ID: lowstd

Autosampler Position: 2

Sample Date/Time: Thursday, July 21. 2005 17:30:16

Sample File: C:\elandata\Sample\072105a sam

Method File: c:\elandata\Method\6020 mth

Dataset File: C:\elandata\Dataset\072105\lowstd 010

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	23472 454	0 042	**1.303**	0 467	35 8	ppb
	Mg	24	3196 266	-0.004	**-0.173**	0 467	269 8	ppb
	Al	27	8469 931	-0 056	**-1.722**	0 456	26 5	ppb
	K	39	540170 531	0 252	**4.483**	1 113	24 8	ppb
	Ca	43	1552 580	0 010	**71.643**	0 674	0 9	ppb
>	Sc	45	95481 135	95481 135				ppb
	Fe	57	9924 212	0 008	**1.907**	1 585	83 1	ppb
>	Ge	72	48312 787	48312 787				ppb
>	Lu	175	65683 101	65683 101				ppb
	Pb	208	2771 235	0 034	**0.099**	0 003	3 0	ppb

Quantitative Analysis - Summary

Sample ID: ccv1
Autosampler Position: 3
Sample Date/Time: Thursday, July 21, 2005 17:33:43
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccv1 011

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	Conc. Mean	Conc SD	Conc RSD	Sample Unit
	Na	23	20351 177	0 008	**0.258**	0 061	23 8	ppb
	Mg	24	2567 655	-0 011	**-0.464**	0 026	5 7	ppb
	Al	27	7374 541	-0 068	**-2.087**	0 057	2 8	ppb
	K	39	524439.992	0 051	**0.909**	0 676	74 4	ppb
	Ca	43	700.812	0 001	**8.827**	5 863	66.4	ppb
>	Sc	45	96109 209	96109 209				ppb
	Fe	57	9995 432	0.009	**2.028**	1 178	58 1	ppb
>	Ge	72	48522.989	48522.989				ppb
>	Lu	175	66057 690	66057 690				ppb
	Pb	208	114386.756	1 724	**5.001**	0 048	1 0	ppb

Quantitative Analysis - Summary

Sample ID: cvs1
Autosampler Position: 5
Sample Date/Time: Thursday, July 21, 2005 17:37:12
Sample File: C:\elandata\Sample\072105a sam
Method File. c.\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\cvs1.012

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	1713644.665	17.183	**527.808**	15.748	3.0	ppb
	Mg	24	1300803.176	13.153	**567.885**	4.180	0.7	ppb
	Al	27	1759055.889	17.704	**541.031**	17.424	3.2	ppb
	K	39	3332525.616	28.379	**505.259**	11.916	2.4	ppb
	Ca	43	7512.697	0.070	**491.356**	6.866	1.4	ppb
>	Sc	45	98631.597	98631.597				ppb
	Fe	57	124657.313	2.252	**507.655**	11.034	2.2	ppb
>	Ge	72	50917.786	50917.786				ppb
>	Lu	175	69537.084	69537.084				ppb
	Pb	208	976.795	0.006	**0.018**	0.002	11.2	ppb

Quantitative Analysis - Summary

Sample ID: ccb1
Autosampler Position: 1
Sample Date/Time: Thursday, July 21, 2005 17:40:40
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccb1 013

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	Conc. Mean	Conc SD	Conc RSD	Sample Unit
	Na	23	18867 650	-0 008	**-0.250**	0 196	78 4	ppb
	Mg	24	3479 904	-0 001	**-0.062**	0 101	163 9	ppb
	Al	27	13370 981	-0 007	**-0.204**	0 159	78 0	ppb
	K	39	527232 275	0 049	**0.877**	2 949	336 3	ppb
	Ca	43	686 853	0 001	**7.527**	3 527	46 9	ppb
>	Sc	45	96706 855	96706 855				ppb
	Fe	57	10586 929	0 019	**4.257**	0 445	10 5	ppb
>	Ge	72	49022 700	49022 700				ppb
>	Lu	175	66149 306	66149 306				ppb
	Pb	208	499 527	-0 000	**-0.001**	0 002	130 6	ppb

Quantitative Analysis - Summary

Sample ID: pb3254 x25
Autosampler Position: 11
Sample Date/Time: Thursday, July 21, 2005 17:44:08
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\pb3254 x25 014

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	38942.330	0.168	**5.169**	0.250	4.8	ppb
	Mg	24	827.821	-0.030	**-1.276**	0.021	1.6	ppb
	Al	27	2175.827	-0.124	**-3.798**	0.042	1.1	ppb
	K	39	519167.913	-0.451	**-8.037**	0.788	9.8	ppb
	Ca	43	443.965	-0.002	**-12.565**	1.234	9.8	ppb
>	Sc	45	104797.044	104797.044				ppb
	Fe	57	10187.116	-0.006	**-1.338**	0.644	48.2	ppb
>	Ge	72	53303.030	53303.030				ppb
>	Lu	175	72354.632	72354.632				ppb
	Pb	208	383.747	-0.003	**-0.008**	0.001	16.8	ppb

Quantitative Analysis - Summary

Sample ID: lcs3254 x25
Autosampler Position: 12
Sample Date/Time: Thursday, July 21, 2005 17:47:36
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\lcs3254 x25 015

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	39043.102	0.188	**5.777**	0.309	5.3	ppb
	Mg	24	902.198	-0.028	**-1.225**	0.068	5.6	ppb
	Al	27	2173.912	-0.123	**-3.765**	0.065	1.7	ppb
	K	39	511647.696	-0.272	**-4.838**	4.509	93.2	ppb
	Ca	43	491.044	-0.001	**-7.736**	1.903	24.6	ppb
>	Sc	45	99829.396	99829.396				ppb
	Fe	57	25858.010	0.313	**70.458**	4.878	6.9	ppb
>	Ge	72	50828.525	50828.525				ppb
>	Lu	175	68947.385	68947.385				ppb
	Pb	208	328500.925	4.759	**13.809**	0.223	1.6	ppb

Quantitative Analysis - Summary

Sample ID: lcd3254 x25

Autosampler Position: 13
Sample Date/Time: Thursday, July 21, 2005 17:51:04
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\lcd3254 x25 016

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	33521.834	0.179	**5.502**	0.106	1.9	ppb
	Mg	24	976.883	-0.026	**-1.131**	0.047	4.1	ppb
	Al	27	2141.717	-0.120	**-3.677**	0.066	1.8	ppb
	K	39	490291.925	0.319	**5.679**	17.122	301.5	ppb
	Ca	43	443.937	-0.001	**-5.991**	5.787	96.6	ppb
>	Sc	45	87753.610	87753.610				ppb
	Fe	57	23820.295	0.349	**78.656**	10.149	12.9	ppb
>	Ge	72	44180.248	44180.248				ppb
>	Lu	175	60528.537	60528.537				ppb
	Pb	208	296713.648	4.886	**14.177**	0.185	1.3	ppb

Quantitative Analysis - Summary

Sample ID: G211-1833-1G x25

Autosampler Position: 14
Sample Date/Time: Thursday, July 21. 2005 17:54:34
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G211-1833-1G x25 017

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	Conc. Mean	Conc SD	Conc RSD	Sample Unit
	Na	23	1127459 289	12 424	**381.638**	11 042	2 9	ppb
	Mg	24	125306 583	1 367	**59.016**	1 307	2 2	ppb
	Al	27	2619 701	-0 115	**-3.525**	0 061	1 7	ppb
	K	39	613800 215	1 576	**28.055**	12 526	44 6	ppb
	Ca	43	30791 959	0 339	**2376.052**	42 936	1 8	ppb
>	Sc	45	88998 187	88998 187				ppb
	Fe	57	35031 237	0 572	**128.857**	6 881	5 3	ppb
>	Ge	72	45769 591	45769 591				ppb
>	Lu	175	62631 851	62631 851				ppb
	Pb	208	749 121	0 004	**0.013**	0 008	66 3	ppb

Quantitative Analysis - Summary

Sample ID: G211-1833-1H ms x25
Autosampler Position: 15
Sample Date/Time: Thursday, July 21, 2005 17:58:03
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G211-1833-1H ms x25 018

Concentration Results

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Na	23	1185392.523	12.279	**377.186**	0.910	0.2	ppb
Mg	24	131679.597	1.349	**58.257**	0.497	0.9	ppb
Al	27	2470.918	-0.119	**-3.636**	0.052	1.4	ppb
K	39	633690.440	1.269	**22.587**	2.328	10.3	ppb
Ca	43	32150.645	0.333	**2328.995**	16.647	0.7	ppb
Sc	45	94967.306	94967.306				ppb
Fe	57	51750.991	0.851	**191.749**	2.062	1.1	ppb
Ge	72	49391.531	49391.531				ppb
Lu	175	66426.180	66426.180				ppb
Pb	208	330185.643	4.963	**14.400**	0.157	1.1	ppb

Quantitative Analysis - Summary

Sample ID: G211-1833-1l msd x25

Autosampler Position: 16
Sample Date/Time: Thursday, July 21, 2005 18:01:34
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G211-1833-1l msd x25 019

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	1200460.040	12.310	**378.127**	4.958	1.3	ppb
	Mg	24	131086.205	1.329	**57.377**	0.932	1.6	ppb
	Al	27	2422.843	-0.120	**-3.660**	0.030	0.8	ppb
	K	39	632502.136	1.188	**21.158**	0.821	3.9	ppb
	Ca	43	32487.880	0.333	**2329.518**	23.592	1.0	ppb
>	Sc	45	95924.594	95924.594				ppb
	Fe	57	52593.151	0.879	**198.118**	5.451	2.8	ppb
>	Ge	72	48893.726	48893.726				ppb
>	Lu	175	67478.276	67478.276				ppb
	Pb	208	344777.546	5.101	**14.800**	0.148	1.0	ppb

Quantitative Analysis - Summary

Sample ID: pb3246 x25
Autosampler Position: 17
Sample Date/Time: Thursday, July 21, 2005 18:05:03
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\pb3246 x25 020

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	17371.292	-0.024	**-0.731**	0.143	19.6	ppb
	Mg	24	1841.525	-0.018	**-0.795**	0.026	3.3	ppb
	Al	27	3691.204	-0.107	**-3.266**	0.025	0.8	ppb
	K	39	507792.658	-0.156	**-2.786**	1.381	49.6	ppb
	Ca	43	454.133	-0.001	**-9.358**	1.991	21.3	ppb
>	Sc	45	96742.857	96742.857				ppb
	Fe	57	8885.012	-0.019	**-4.216**	0.779	18.5	ppb
>	Ge	72	49820.179	49820.179				ppb
>	Lu	175	68686.455	68686.455				ppb
	Pb	208	310.905	-0.003	**-0.010**	0.003	25.9	ppb

Quantitative Analysis - Summary

Sample ID: lcs3246 x25

Autosampler Position: 18
Sample Date/Time: Thursday, July 21. 2005 18:08:30
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\lcs3246 x25 021

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5635.127	-0.147	**-4.500**	0.122	2.7	ppb
	Mg	24	325.162	-0.034	**-1.476**	0.019	1.3	ppb
	Al	27	1727.495	-0.128	**-3.900**	0.032	0.8	ppb
	K	39	499022.439	-0.374	**-6.658**	2.110	31.7	ppb
	Ca	43	399.897	-0.002	**-13.987**	1.628	11.6	ppb
>	Sc	45	99219.652	99219.652				ppb
	Fe	57	25007.067	0.291	**65.648**	1.439	2.2	ppb
>	Ge	72	51219.583	51219.583				ppb
>	Lu	175	69541.559	69541.559				ppb
	Pb	208	334075.638	4.795	**13.914**	0.178	1.3	ppb

Quantitative Analysis - Summary

Sample ID: lcd3246 x25

Autosampler Position: 19
Sample Date/Time: Thursday, July 21, 2005 18:11:57
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\lcd3246 x25 022

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	5657.386	-0.145	**-4.460**	0.121	2.7	ppb
	Mg	24	322.358	-0.034	**-1.474**	0.032	2.2	ppb
	Al	27	1467.419	-0.130	**-3.971**	0.040	1.0	ppb
	K	39	494293.513	-0.325	**-5.784**	2.260	39.1	ppb
	Ca	43	412.646	-0.002	**-12.523**	1.138	9.1	ppb
>	Sc	45	97326.647	97326.647				ppb
	Fe	57	24192.674	0.293	**66.056**	1.384	2.1	ppb
>	Ge	72	49370.584	49370.584				ppb
>	Lu	175	67362.082	67362.082				ppb
	Pb	208	318695.495	4.723	**13.705**	0.062	0.5	ppb

Quantitative Analysis - Summary

Sample ID: G460-26-3K x25

Autosampler Position: 20
Sample Date/Time: Thursday, July 21, 2005 18:15:24
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G460-26-3K x25 023

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5309575.313	53.715	**1650.010**	7.726	0.5	ppb
	Mg	24	1322710.382	13.396	**578.386**	7.986	1.4	ppb
	Al	27	41289.323	0.274	**8.382**	0.127	1.5	ppb
	K	39	639758.181	1.093	**19.462**	2.291	11.8	ppb
	Ca	43	10005.015	0.096	**669.223**	4.271	0.6	ppb
>	Sc	45	98483.730	98483.730				ppb
	Fe	57	16562.095	0.124	**28.022**	1.230	4.4	ppb
>	Ge	72	51554.835	51554.835				ppb
>	Lu	175	71375.880	71375.880				ppb
	Pb	208	1275.530	0.010	**0.029**	0.006	21.8	ppb

Quantitative Analysis - Summary

Sample ID: ccv2

Autosampler Position: 3
Sample Date/Time: Thursday, July 21, 2005 18:18:51
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccv2.024

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	19875.576	0.010	**0.302**	0.530	175.4	ppb
	Mg	24	2394.794	-0.012	**-0.508**	0.142	27.9	ppb
	Al	27	6741.495	-0.073	**-2.223**	0.066	3.0	ppb
	K	39	516704.707	0.134	**2.385**	1.810	75.9	ppb
	Ca	43	752.402	0.002	**14.257**	2.624	18.4	ppb
>	Sc	45	93288.577	93288.577				ppb
	Fe	57	9329.387	-0.001	**-0.161**	0.940	584.8	ppb
>	Ge	72	47521.568	47521.568				ppb
>	Lu	175	64083.054	64083.054				ppb
	Pb	208	112241.161	1.744	**5.059**	0.090	1.8	ppb

Quantitative Analysis - Summary

Sample ID: ccb2

Autosampler Position: 1
Sample Date/Time: Thursday, July 21, 2005 18:22:19
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccb2.025

Concentration Results

	Analyte	Mass	Meas Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc RSD	Sample Unit
⌈	Na	23	17557.259	-0.015	**-0.448**	0.089	19.9	ppb
|	Mg	24	3215.884	-0.003	**-0.124**	0.043	35.0	ppb
|	Al	27	12558.449	-0.010	**-0.305**	0.176	57.6	ppb
|	K	39	515323.734	0.137	**2.446**	3.323	135.8	ppb
|	Ca	43	674.402	0.001	**8.578**	2.566	29.9	ppb
⌊>	Sc	45	93039.231	93039.231				ppb
⌈	Fe	57	9604.044	0.007	**1.572**	1.041	66.2	ppb
⌊>	Ge	72	47086.264	47086.264				ppb
⌈>	Lu	175	64027.613	64027.613				ppb
⌊	Pb	208	534.755	0.000	**0.001**	0.001	98.0	ppb

Quantitative Analysis - Summary

Sample ID: G460-26-3L ms

Autosampler Position: 21
Sample Date/Time: Thursday, July 21, 2005 18:25:46
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G460-26-3L ms 026

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc RSD	Sample Unit
	Na	23	5301492.096	53.495	**1643.249**	29.400	1.8	ppb
	Mg	24	1337032.707	13.506	**583.123**	10.023	1.7	ppb
	Al	27	56713.063	0.429	**13.124**	0.323	2.5	ppb
	K	39	637492.740	1.052	**18.728**	1.937	10.3	ppb
	Ca	43	10063.537	0.096	**671.645**	5.343	0.8	ppb
>	Sc	45	98736.743	98736.743				ppb
	Fe	57	32696.859	0.443	**99.832**	0.499	0.5	ppb
>	Ge	72	51089.690	51089.690				ppb
>	Lu	175	70617.000	70617.000				ppb
	Pb	208	348021.858	4.921	**14.277**	0.142	1.0	ppb

Quantitative Analysis - Summary

Sample ID: G460-26-3M x25

Autosampler Position: 22 MSD

Sample Date/Time: Thursday, July 21, 2005 18:29:14

Sample File: C:\elandata\Sample\072105a sam

Method File: c:\elandata\Method\6020.mth

Dataset File: C:\elandata\Dataset\072105\G460-26-3M x25 027

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	5283427.745	54.415	**1671.516**	36.208	2.2	ppb
|	Mg	24	1304817.607	13.454	**580.900**	16.048	2.8	ppb
|	Al	27	53673.138	0.410	**12.529**	0.541	4.3	ppb
|	K	39	631741.105	1.127	**20.074**	3.785	18.9	ppb
|	Ca	43	10112.406	0.099	**690.421**	38.486	5.6	ppb
⌊>	Sc	45	96764.723	96764.723				ppb
⌈	Fe	57	32907.825	0.452	**101.825**	2.259	2.2	ppb
⌊>	Ge	72	50725.768	50725.768				ppb
⌈>	Lu	175	70504.413	70504.413				ppb
⌊	Pb	208	355661.433	5.038	**14.617**	0.172	1.2	ppb

Quantitative Analysis - Summary

Sample ID: G460-26-1K x25

Autosampler Position: 23
Sample Date/Time: Thursday, July 21. 2005 18:32:42
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\G460-26-1K x25.028

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc RSD	Sample Unit
	Na	23	5442309.734	55.009	**1689.758**	2.604	0.2	ppb
	Mg	24	1308783.544	13.240	**571.647**	2.362	0.4	ppb
	Al	27	85318.739	0.721	**22.019**	0.075	0.3	ppb
	K	39	566364.645	0.342	**6.088**	2.231	36.6	ppb
	Ca	43	10136.242	0.097	**678.105**	9.461	1.4	ppb
>	Sc	45	98568.100	98568.100				ppb
	Fe	57	23225.602	0.254	**57.279**	0.467	0.8	ppb
>	Ge	72	51472.686	51472.686				ppb
>	Lu	175	71444.840	71444.840				ppb
	Pb	208	1481.421	0.013	**0.037**	0.004	9.8	ppb

Quantitative Analysis - Summary

Sample ID: G460-26-2K x25

Autosampler Position: 24
Sample Date/Time: Thursday, July 21, 2005 18:36:10
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\G460-26-2K x25.029

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	3120564.071	29.260	**898.801**	6.282	0.7	ppb
|	Mg	24	1629522.232	15.350	**662.772**	7.590	1.1	ppb
|	Al	27	7114.912	-0.078	**-2.378**	0.078	3.3	ppb
|	K	39	543874.310	-0.269	**-4.789**	1.763	36.8	ppb
|	Ca	43	11700.387	0.104	**731.587**	8.763	1.2	ppb
⌊>	Sc	45	105908.169	105908.169				ppb
⌈	Fe	57	10297.055	-0.010	**-2.358**	0.899	38.1	ppb
⌊>	Ge	72	55198.621	55198.621				ppb
⌈>	Lu	175	76054.587	76054.587				ppb
⌊	Pb	208	338.879	-0.004	**-0.010**	0.001	6.1	ppb

Quantitative Analysis - Summary

Sample ID: G161-2070-1N x25

Autosampler Position: 25
Sample Date/Time: Thursday, July 21, 2005 18:39:39
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G161-2070-1N x25 030

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	4850551.536	51.234	**1573.807**	32.486	2.1	ppb
	Mg	24	2166283.707	22.945	**990.680**	11.225	1.1	ppb
	Al	27	104409.019	0.963	**29.436**	0.156	0.5	ppb
	K	39	1591542.171	11.519	**205.085**	11.227	5.5	ppb
	Ca	43	33688.294	0.352	**2463.305**	30.835	1.3	ppb
>	Sc	45	94232.183	94232.183				ppb
	Fe	57	34603.899	0.514	**115.799**	3.802	3.3	ppb
>	Ge	72	48743.117	48743.117				ppb
>	Lu	175	67474.095	67474.095				ppb
	Pb	208	1473.368	0.014	**0.040**	0.002	5.2	ppb

Quantitative Analysis - Summary

Sample ID: G161-2069-1N x25

Autosampler Position: 26
Sample Date/Time: Thursday, July 21, 2005 18:43:08
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G161-2069-1N x25 031

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	2336288 549	22 445	**689.463**	7 101	1 0	ppb
	Mg	24	1215611 603	11 751	**507.366**	11 304	2 2	ppb
	Al	27	458061 714	4 297	**131.327**	3 173	2 4	ppb
	K	39	795877 134	2 314	**41.201**	3 580	8 7	ppb
	Ca	43	17230 408	0 161	**1127.744**	19 974	1 8	ppb
>	Sc	45	103152 177	103152 177				ppb
	Fe	57	62531 854	0 984	**221.807**	3.204	1 4	ppb
>	Ge	72	52954 426	52954 426				ppb
>	Lu	175	72810 157	72810 157				ppb
	Pb	208	16495 528	0 219	**0.634**	0 010	1 7	ppb

Quantitative Analysis - Summary

Sample ID: G161-2069-2P x25

Autosampler Position: 27
Sample Date/Time: Thursday, July 21, 2005 18:46:37
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G161-2069-2P x25 032

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
⌈	Na	23	5349037 592	54 007	**1658.981**	3.555	0.2	ppb
|	Mg	24	1109051 228	11 203	**483.682**	1.179	0 2	ppb
|	Al	27	49882 743	0.361	**11.019**	0.090	0.8	ppb
|	K	39	1009505 942	4 827	**85.941**	2 224	2.6	ppb
|	Ca	43	15681 362	0 153	**1070.993**	12.727	1.2	ppb
⌊>	Sc	45	98670 899	98670.899				ppb
⌈	Fe	57	20143.382	0.201	**45.215**	1 783	3 9	ppb
⌊>	Ge	72	50669 414	50669 414				ppb
⌈>	Lu	175	70859.163	70859.163				ppb
⌊	Pb	208	4183 001	0.051	**0.148**	0.002	1 4	ppb

Quantitative Analysis - Summary

Sample ID: G161-2069-2Q dup x25

Autosampler Position: 28
Sample Date/Time: Thursday, July 21, 2005 18:50:06
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\G161-2069-2Q dup x25.033

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5266141.193	55.184	**1695.132**	34.097	2.0	ppb
	Mg	24	1116334.977	11.705	**505.396**	3.447	0.7	ppb
	Al	27	89164.347	0.793	**24.230**	0.323	1.3	ppb
	K	39	1030128.267	5.434	**96.750**	3.000	3.1	ppb
	Ca	43	15575.515	0.158	**1105.241**	12.515	1.1	ppb
>	Sc	45	95056.930	95056.930				ppb
	Fe	57	22834.902	0.266	**59.977**	1.892	3.2	ppb
>	Ge	72	49319.105	49319.105				ppb
>	Lu	175	68652.954	68652.954				ppb
	Pb	208	4095.407	0.052	**0.150**	0.004	2.6	ppb

Quantitative Analysis - Summary

Sample ID: G161-2069-2Q dup x125 SD

Autosampler Position: 29
Sample Date/Time: Thursday, July 21, 2005 18:53:36
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G161-2069-2Q dup x125 SD 034

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	1320387.208	13.578	**417.083**	8.187	2.0	ppb
|	Mg	24	223505.295	2.295	**99.101**	1.186	1.2	ppb
|	Al	27	19217.385	0.056	**1.697**	0.099	5.8	ppb
|	K	39	591002.951	0.762	**13.574**	0.246	1.8	ppb
|	Ca	43	3427.667	0.030	**208.310**	4.988	2.4	ppb
⌊>	Sc	45	95815.087	95815.087				ppb
⌈	Fe	57	11446.857	0.038	**8.523**	1.013	11.9	ppb
⌊>	Ge	72	48746.167	48746.167				ppb
⌈>	Lu	175	66720.216	66720.216				ppb
⌊	Pb	208	898.569	0.005	**0.016**	0.002	11.3	ppb

Quantitative Analysis - Summary

Sample ID: G161-2069-2Q dup x25 PDS

Autosampler Position: 30
Sample Date/Time: Thursday, July 21, 2005 18:57:06
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\G161-2069-2Q dup x25 PDS 035

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	5314638.349	54.955	**1688.104**	16.761	1.0	ppb
	Mg	24	1120759.567	11.596	**500.664**	2.016	0.4	ppb
	Al	27	90499.937	0.794	**24.276**	0.071	0.3	ppb
	K	39	1035153.653	5.340	**95.076**	1.488	1.6	ppb
	Ca	43	15515.515	0.155	**1085.721**	4.180	0.4	ppb
>	Sc	45	96339.571	96339.571				ppb
	Fe	57	22876.006	0.255	**57.430**	1.684	2.9	ppb
>	Ge	72	50636.401	50636.401				ppb
>	Lu	175	70294.789	70294.789				ppb
	Pb	208	27558.333	0.384	**1.114**	0.024	2.2	ppb

Quantitative Analysis - Summary

Sample ID: ccv3
Autosampler Position: 3
Sample Date/Time: Thursday, July 21. 2005 19:00:35
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccv3 036

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc SD	Conc. RSD	Sample Unit
⌈	Na	23	19343 881	0.011	**0.336**	0 396	118 1	ppb
|	Mg	24	2265.287	-0.012	**-0.534**	0 095	17.8	ppb
|	Al	27	6447.839	-0.074	**-2.250**	0 075	3.3	ppb
|	K	39	495059 630	0 076	**1.357**	2 884	212 6	ppb
|	Ca	43	719.577	0.002	**13.589**	2 605	19 2	ppb
⌊>	Sc	45	90367 597	90367.597				ppb
⌈	Fe	57	8834 583	-0 007	**-1.495**	1 134	75 8	ppb
⌊>	Ge	72	46417.918	46417 918				ppb
⌈>	Lu	175	64348.487	64348 487				ppb
⌊	Pb	208	111619 539	1.727	**5.010**	0.053	1 1	ppb

Quantitative Analysis - Summary

Sample ID: ccb3

Autosampler Position: 1
Sample Date/Time: Thursday, July 21, 2005 19:04:03
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\ccb3.037

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	17441.269	-0.008	**-0.247**	0.236	95.4	ppb
|	Mg	24	3104.634	-0.003	**-0.116**	0.056	48.3	ppb
|	Al	27	11897.223	-0.012	**-0.361**	0.070	19.4	ppb
|	K	39	489449.996	0.076	**1.345**	2.103	156.4	ppb
|	Ca	43	666.425	0.001	**10.098**	4.300	42.6	ppb
⌊>	Sc	45	89335.019	89335.019				ppb
⌈	Fe	57	9074.909	0.002	**0.340**	0.973	286.3	ppb
⌊>	Ge	72	45715.422	45715.422				ppb
⌈>	Lu	175	63172.214	63172.214				ppb
⌊	Pb	208	559.854	0.001	**0.002**	0.001	29.4	ppb

Quantitative Analysis - Summary

Sample ID: icsA2
Autosampler Position: 9
Sample Date/Time: Thursday, July 21, 2005 19:07:31
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\icsA2.038

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	14178599.226	152.345	**4679.700**	48.811	1.0	ppb
|	Mg	24	9725831.412	104.593	**4515.935**	69.954	1.5	ppb
|	Al	27	14327771.444	154.028	**4707.108**	41.811	0.9	ppb
|	K	39	26450856.700	279.165	**4970.268**	78.488	1.6	ppb
|	Ca	43	61630.574	0.657	**4603.142**	18.531	0.4	ppb
⌊>	Sc	45	92924.942	92924.942				ppb
⌈	Fe	57	1051645.274	20.862	**4701.967**	23.221	0.5	ppb
⌊>	Ge	72	49932.648	49932.648				ppb
⌈>	Lu	175	69247.149	69247.149				ppb
⌊	Pb	208	1031.589	0.007	**0.020**	0.002	10.6	ppb

Quantitative Analysis - Summary

Sample ID: icsB2

Autosampler Position: 10
Sample Date/Time: Thursday, July 21, 2005 19:10:59
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\icsB2 039

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	14528397.880	171.782	**5276.737**	157.918	3.0	ppb
	Mg	24	9937590.739	117.620	**5078.368**	172.182	3.4	ppb
	Al	27	14393645.584	170.268	**5203.409**	181.841	3.5	ppb
	K	39	26028115.390	302.776	**5390.638**	204.333	3.8	ppb
	Ca	43	60135.003	0.706	**4945.508**	227.441	4.6	ppb
>	Sc	45	84558.164	84558.164				ppb
	Fe	57	1010545.457	19.938	**4493.812**	60.733	1.4	ppb
>	Ge	72	50188.485	50188.485				ppb
>	Lu	175	68220.322	68220.322				ppb
	Pb	208	74187.175	1.080	**3.132**	0.039	1.3	ppb

Quantitative Analysis - Summary

Sample ID: ccv4
Autosampler Position: 3
Sample Date/Time: Thursday, July 21, 2005 19:14:26
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\ccv4.040

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
⌈	Na	23	20455.976	0.030	**0.936**	0.678	72.4	ppb
|	Mg	24	3579.402	0.004	**0.152**	0.576	378.9	ppb
|	Al	27	8628.236	-0.046	**-1.416**	0.652	46.1	ppb
|	K	39	483597.724	0.119	**2.128**	1.870	87.9	ppb
|	Ca	43	702.622	0.002	**13.999**	3.014	21.5	ppb
⌊>	Sc	45	87538.836	87538.836				ppb
⌈	Fe	57	9551.605	0.014	**3.244**	1.408	43.4	ppb
⌊>	Ge	72	45171.180	45171.180				ppb
⌈>	Lu	175	62133.155	62133.155				ppb
⌊	Pb	208	110089.117	1.764	**5.117**	0.096	1.9	ppb

Quantitative Analysis - Summary

Sample ID: cvs2

Autosampler Position: 5
Sample Date/Time: Thursday, July 21, 2005 19:17:55
Sample File: C:\elandata\Sample\072105a.sam
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\072105\cvs2.041

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Na	23	1748279.549	19.223	**590.490**	24.137	4.1	ppb
	Mg	24	1210689.550	13.412	**579.084**	9.500	1.6	ppb
	Al	27	1684561.395	18.568	**567.431**	15.234	2.7	ppb
	K	39	3087502.863	28.891	**514.378**	9.068	1.8	ppb
	Ca	43	6890.634	0.071	**493.893**	9.853	2.0	ppb
>	Sc	45	90030.563	90030.563				ppb
	Fe	57	114225.580	2.258	**508.991**	6.328	1.2	ppb
>	Ge	72	46521.860	46521.860				ppb
>	Lu	175	64390.093	64390.093				ppb
	Pb	208	928.964	0.006	**0.019**	0.002	10.3	ppb

Quantitative Analysis - Summary

Sample ID: ccb4
Autosampler Position: 1
Sample Date/Time: Thursday, July 21, 2005 19:21:23
Sample File: C:\elandata\Sample\072105a sam
Method File: c:\elandata\Method\6020 mth
Dataset File: C:\elandata\Dataset\072105\ccb4 042

Concentration Results

	Analyte	Mass	Meas Intens Mean	Net Intens Mean	**Conc. Mean**	Conc SD	Conc RSD	Sample Unit
	Na	23	17154.804	-0 009	**-0.288**	0 185	64 2	ppb
	Mg	24	3267 981	-0 000	**-0.021**	0 110	515 2	ppb
	Al	27	12518.443	-0.003	**-0.106**	0.187	176 4	ppb
	K	39	476364.925	-0.020	**-0.350**	1 219	348 1	ppb
	Ca	43	658 152	0.001	**9.895**	3 507	35 4	ppb
>	Sc	45	88450.345	88450.345				ppb
	Fe	57	9549.987	0.010	**2.339**	0 562	24 0	ppb
>	Ge	72	46043.064	46043.064				ppb
>	Lu	175	61677 781	61677.781				ppb
	Pb	208	487 716	-0.000	**-0.000**	0.002	619.9	ppb

Metals Prep, Standard, Run Logs

Paradigm Analytical Labs

Inorganics Calibration Standards Log

Analyst	Date Made	Analysis	Standard Type	Batch ID	Source	Acid Lot #	Date Expires
RLL	7-15-05	6010 TAL	CB	MS071505-1	Barnstead	44313	7-22-05
			S1		0516-354		
			S2				
			S3		0516-355		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0516-354		
PSW	7-18-05	6010 TAL	CB	OES071805-1	Barnstead	45105	7-25-05
			S1		0620-360		
			S2		0620-361, 0620-362 S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
RLL	7-25-05	6020 TAL	CB	MS072505-1	Barnstead	44313	8-1-05
			S1		0725-369		
			S2				
			S3		0725-370		
			S4				
			S5				
			QCCHK		S-616		
			ICSA		S-617		
			ICSB		0725-369		
PSW	7-26-05	6010 TAL	CB	OES072605-1	Barnstead	45105	8-2-05
			S1		0620-360		
			S2		0620-331 0620-332 S-576, S-565, S-567		
			S3		0620-361		
			S4		0620-362		
			S5		S-576, S-565, S-567		
			QCCHK		S-599, S-600, S-601		
			ICSA		S-611, S-612, S-613, S-614		
			ICSB		0620-363		
			Agg1CHK		0620-364		

Prep Report for Batch 3246 (METALS/3030C/WATER) on 2005-07-15

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	FinalVol	HNO3Lot	HClLot	H2SO4Lot	Temp	Time	Analyst
G161-2069-1N (141995)		50			50		45105		95.1	3:30	psw
G161-2069-2P (141996)		50			50		45105		95.1	3:30	psw
G161-2069-2Q (141997)	DUP	50			50		45105		95.1	3:30	psw
G161-2070-1N (141994)		50			50		45105		95.1	3:30	psw
G460-26-1K (141992)		50			50		45105		95.1	3:30	psw
G460-26-2K (141993)		50			50		45105		95.1	3:30	psw
G460-26-3K (141989)		50			50		45105		95.1	3:30	psw
G460-26-3L (141990)	MS	50	0711-367	1	50		45105		95.1	3:30	psw
G460-26-3M (141991)	MSD	50	0711-367	1	50		45105		95.1	3:30	psw
lcd3246	LCD	50	0711-367	1	50		45105		95.1	3:30	psw
lcs3246	LCS	50	0711-367	1	50		45105		95.1	3:30	psw
pb3246	PB	50			50		45105		95.1	3:30	psw