SIERRA PROPERTY
DATA VALIDATION PACKAGES

Results for Volatiles
by GC 601

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1B
Lab Project ID: G161-2104

Analyzed By: MJC
Date Collected: 8/3/2005 12:15
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	**1.02**	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	**3.67**	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	**1.25**	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	**7.29**	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	**35.5**	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	**5.12**	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	**3.67**	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: _____

Results for Volatiles
by GC 602

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1B
Lab Project ID: G161-2104

Analyzed By: MJC
Date Collected: 8/3/2005 12:15
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	40.6	102

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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	8.9	89
Nitrobenzene-d5	10	9.5	95
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 of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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	Unknown	19.36			867
2	Unknown	20.80			689
3	Unknown	22.86			236
4	Unknown	18.05			223
5	Know Compound peak (added by lab)	11.66			160
6	Know Solvent peak (added by lab)	3.71			136
7	Unknown	19.89			114
8	Unknown	21.53			75.3
9	Unknown	16.59			52.4
10	Unknown	9.23			46.8

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: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	08/03/05
Date Received	08/04/05
Date Extracted	08/09/05
Date Analyzed	08/09/05
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: g161-2104-1e

Reviewed By: RAV

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-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	64
Aromatic Surrogate % Recovery	76
Fractionation Surrogate 1 % Recovery	120

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2104-1O

Reviewed By: [illegible]

Results for Organics
by EPA 504

Client Sample ID:	RSMW-1	Analyzed By:	CLP
Client Project ID:	Sierra Property	Date Collected:	8/3/05 12:15
Lab Sample ID:	G161-2104-1R	Date Received:	8/4/05 10:30
Lab Project ID:	G161-2104	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0191	1	8/15/05

Reviewed By: _____

8011_LIMS_1 32 XLS

Results for Metals

Client Sample ID:	RSMW-1	Analyzed By:	RML
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 12:15
Lab Sample ID:	G161-2104-1	Date Received:	8/4/05
Lab Project ID:	G161-2104	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 Volatiles
by GC 601

Client Sample ID: Trip Blank
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-2A
Lab Project ID: G161-2104

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	40.6	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID:	Trip Blank	Analyzed By:	MJC
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 0:00
Lab Sample ID:	G161-2104-2A	Date Received:	8/4/2005
Lab Project ID:	G161-2104	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	40.3	101

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: 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: _____

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 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: _____

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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

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: RNO

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: [illegible]

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

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	10	10
C_9-C_{10} Aromatics	0.13	0.41	10	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: 08/09/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	13.3
C_9-C_{12} Aliphatics	500	50	6.2
C_9-C_{10} Aromatics	500	50	-7.2

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

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

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: _____

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: _____

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# 48665
Page 1 **of** 1

Client: ECS, Ltd **Project ID:** Sierra Property **Date:** 8/3/05 **Report To:** jricks@ecslimited.com
Address: 6909 Industrial 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: HCL	None	HNO3		Analyses: 601/602	EPH	VPH	504.1 (EDB)	8030C-Pb	625 BN+10 TICs					Comments: Please specify any special reporting requirements
RSmw-1	8/3/05	12:15	GW	X	X	X		X	X	X	X	X	X					City of Greensboro Project
Trip Blank	↓	–	↓	X				X										
																		G161-2104

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	8/3/05	3130	[signature]	8/4/05	1030	1-2°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Results for Volatiles
by GCMS 8260-5035

Smw 1-2

Client Sample ID: ~~MW-1-2~~ SM
Client Project ID: Sierra Property
Lab Sample ID G161-2055-1D
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-01-2005 10:00
Date Received: 7/5/2005
Matrix: Soil
%Solids: 89.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	2.21	50	7/12/2005
Benzene	BQL	0.221	50	7/12/2005
Bromobenzene	BQL	0.221	50	7/12/2005
Bromochloromethane	BQL	0.221	50	7/12/2005
Bromodichloromethane	BQL	0.221	50	7/12/2005
Bromoform	BQL	0.221	50	7/12/2005
Bromomethane	BQL	0.221	50	7/12/2005
2-Butanone	BQL	1.10	50	7/12/2005
n-Butylbenzene	BQL	0.221	50	7/12/2005
sec-Butylbenzene	**1.49**	0.221	50	7/12/2005
tert-Butylbenzene	**0.266**	0.221	50	7/12/2005
Carbon disulfide	BQL	0.221	50	7/12/2005
Carbon tetrachloride	BQL	0.221	50	7/12/2005
Chlorobenzene	BQL	0.221	50	7/12/2005
Chloroethane	BQL	0.221	50	7/12/2005
Chloroform	BQL	0.221	50	7/12/2005
Chloromethane	BQL	0.221	50	7/12/2005
2-Chlorotoluene	BQL	0.221	50	7/12/2005
4-Chlorotoluene	BQL	0.221	50	7/12/2005
Dibromochloromethane	BQL	0.221	50	7/12/2005
1,2-Dibromo-3-chloropropane	BQL	0.221	50	7/12/2005
Dibromomethane	BQL	0.221	50	7/12/2005
1,2-Dibromoethane (EDB)	BQL	0.221	50	7/12/2005
1,2-Dichlorobenzene	BQL	0.221	50	7/12/2005
1,3-Dichlorobenzene	BQL	0.221	50	7/12/2005
1,4-Dichlorobenzene	BQL	0.221	50	7/12/2005
trans-1,4-Dichloro-2-butene	BQL	0.221	50	7/12/2005
1,1-Dichloroethane	BQL	0.221	50	7/12/2005
1,1-Dichloroethene	BQL	0.221	50	7/12/2005
1,2-Dichloroethane	BQL	0.221	50	7/12/2005
cis-1,2-Dichloroethene	BQL	0.221	50	7/12/2005
trans-1,2-dichloroethene	BQL	0.221	50	7/12/2005
1,2-Dichloropropane	BQL	0.221	50	7/12/2005
1,3-Dichloropropane	BQL	0.221	50	7/12/2005
2,2-Dichloropropane	BQL	0.221	50	7/12/2005
1,1-Dichloropropene	BQL	0.221	50	7/12/2005
cis-1,3-Dichloropropene	BQL	0.221	50	7/12/2005
trans-1,3-Dichloropropene	BQL	0.221	50	7/12/2005
Dichlorodifluoromethane	BQL	0.221	50	7/12/2005
Diisopropyl ether (DIPE)	BQL	0.221	50	7/12/2005
Ethylbenzene	**0.467**	0.221	50	7/12/2005
Hexachlorobutadiene	BQL	0.221	50	7/12/2005
2-Hexanone	BQL	0.221	50	7/12/2005
Iodomethane	BQL	0.221	50	7/12/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: ~~MW-1-2~~ SMW1-2
Client Project ID: Sierra Property
Lab Sample ID G161-2055-1D
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 07-01-2005 10:00
Date Received: 7/5/2005
Matrix: Soil
%Solids: 89.6

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.221	50	7/12/2005
4-Isopropyltoluene	BQL	0.221	50	7/12/2005
Methylene chloride	BQL	0.883	50	7/12/2005
4-Methyl-2-pentanone	BQL	0.221	50	7/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.221	50	7/12/2005
Naphthalene	BQL	0.221	50	7/12/2005
n-Propyl benzene	**0.317**	0.221	50	7/12/2005
Styrene	BQL	0.221	50	7/12/2005
1,1,1,2-Tetrachloroethane	BQL	0.221	50	7/12/2005
1,1,2,2-Tetrachloroethane	BQL	0.221	50	7/12/2005
Tetrachloroethene	BQL	0.221	50	7/12/2005
Toluene	**1.27**	0.221	50	7/12/2005
1,2,3-Trichlorobenzene	BQL	0.221	50	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.221	50	7/12/2005
Trichloroethene	BQL	0.221	50	7/12/2005
1,1,1-Trichloroethane	BQL	0.221	50	7/12/2005
1,1,2-Trichloroethane	BQL	0.221	50	7/12/2005
Trichlorofluoromethane	BQL	0.221	50	7/12/2005
1,2,3-Trichloropropane	BQL	0.221	50	7/12/2005
1,2,4-Trimethylbenzene	**1.92**	0.221	50	7/12/2005
1,3,5-Trimethylbenzene	**0.599**	0.221	50	7/12/2005
Vinyl chloride	BQL	0.221	50	7/12/2005
m-,p-Xylene	**2.60**	0.442	50	7/12/2005
o-Xylene	**1.23**	0.221	50	7/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0102	20 #
1,2-Dichloroethane-d4	0.05	0.00814	16 #
Toluene-d8	0.05	0.0102	20 #

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: ~~MW-1-2~~ SMW1-2
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1G
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:00
Date Received: 7/5/2005
Date Extracted: 7/7/2005
Matrix: Soil
% Solids: 89.57

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.331	1	7/12/2005
Acenaphthylene	BQL	0.331	1	7/12/2005
Anthracene	BQL	0.331	1	7/12/2005
Benzo[a]anthracene	BQL	0.331	1	7/12/2005
Benzo[a]pyrene	BQL	0.331	1	7/12/2005
Benzo[b]fluoranthene	BQL	0.331	1	7/12/2005
Benzo[g,h,i]perylene	BQL	0.331	1	7/12/2005
Benzo[k]fluoranthene	BQL	0.331	1	7/12/2005
Bis(2-chloroethoxy)methane	BQL	0.331	1	7/12/2005
Bis(2-chloroethyl)ether	BQL	0.331	1	7/12/2005
Bis(2-chloroisopropyl)ether	BQL	0.331	1	7/12/2005
Bis(2-ethylhexyl)phthalate	BQL	0.331	1	7/12/2005
4-bromophenyl phenyl ether	BQL	0.331	1	7/12/2005
Butylbenzylphthalate	BQL	0.331	1	7/12/2005
2-Chloronaphthalene	BQL	0.331	1	7/12/2005
4-Chloroaniline	BQL	1.66	1	7/12/2005
4-Chlorophenyl phenyl ether	BQL	0.331	1	7/12/2005
Chrysene	BQL	0.331	1	7/12/2005
Dibenzo[a,h]anthracene	BQL	0.331	1	7/12/2005
Dibenzofuran	BQL	0.331	1	7/12/2005
Di-n-Butylphthalate	BQL	0.331	1	7/12/2005
1,2-Dichlorobenzene	BQL	0.331	1	7/12/2005
1,3-Dichlorobenzene	BQL	0.331	1	7/12/2005
1,4-Dichlorobenzene	BQL	0.331	1	7/12/2005
3,3'-Dichlorobenzidine	BQL	0.663	1	7/12/2005
Diethylphthalate	BQL	0.331	1	7/12/2005
Dimethylphthalate	BQL	0.331	1	7/12/2005
Di-n-octylphthalate	BQL	0.331	1	7/12/2005
2,4-Dinitrotoluene	BQL	0.331	1	7/12/2005
2,6-Dinitrotoluene	BQL	0.331	1	7/12/2005
Diphenylamine *	BQL	0.331	1	7/12/2005
Fluoranthene	BQL	0.331	1	7/12/2005
Fluorene	BQL	0.331	1	7/12/2005
Hexachlorobenzene	BQL	0.331	1	7/12/2005
Hexachlorobutadiene	BQL	0.331	1	7/12/2005
Hexachlorocyclopentadiene	BQL	0.663	1	7/12/2005
Hexachloroethane	BQL	0.331	1	7/12/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.331	1	7/12/2005
Isophorone	BQL	0.331	1	7/12/2005
2-Methylnaphthalene	BQL	0.331	1	7/12/2005
Naphthalene	BQL	0.331	1	7/12/2005
2-Nitroaniline	BQL	0.331	1	7/12/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: ~~MW-1-2~~ SMW1-2 SN.
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1G
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:00
Date Received: 7/5/2005
Date Extracted: 7/7/2005
Matrix: Soil
% Solids: 89.57

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.66	1	7/12/2005
4-Nitroaniline	BQL	1.66	1	7/12/2005
Nitrobenzene	BQL	0.331	1	7/12/2005
N-Nitrosodi-n-propylamine	BQL	0.331	1	7/12/2005
Phenanthrene	BQL	0.331	1	7/12/2005
Pyrene	BQL	0.331	1	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.331	1	7/12/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.3	103
Nitrobenzene-d5	10	10.2	102
4-Terphenyl-d14	10	12.5	125

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: Sierra Property

Sample Information and Analytical Results	
Sample Identification	~~MW-1-2~~ SMW1-2
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	78
Dilution Factor	1
C_5-C_8 Aliphatics**	20 (mg/Kg)
C_9-C_{12} Aliphatics**	17 (mg/Kg)
C_9-C_{10} Aromatics**	13 (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: G161-2055-1E

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	~~MW-1-2~~ SMW1-2
Sample Matrix	Soil
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/08/05
Date Analyzed	07/12/05
Dry Weight	89.6
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	93 (mg/Kg)
C_{11}-C_{22} Aromatics*	28 (mg/Kg)
Aliphatic Surrogate % Recovery	66
Aromatic Surrogate % Recovery	73
Fractionation Surrogate 1 % Recovery	43

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2055-1H

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: ~~MW-1-7~~ SM-MW-1-7
Client Project ID: Sierra Property
Lab Sample ID G161-2055-2A
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: RNP
Date Collected: 07-01-2005 10:05
Date Received: 7/5/2005
Matrix: Soil
%Solids: 88.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0494	1	7/8/2005
Benzene	BQL	0.00494	1	7/8/2005
Bromobenzene	BQL	0.00494	1	7/8/2005
Bromochloromethane	BQL	0.00494	1	7/8/2005
Bromodichloromethane	BQL	0.00494	1	7/8/2005
Bromoform	BQL	0.00494	1	7/8/2005
Bromomethane	BQL	0.00494	1	7/8/2005
2-Butanone	BQL	0.0247	1	7/8/2005
n-Butylbenzene	BQL	0.00494	1	7/8/2005
sec-Butylbenzene	BQL	0.00494	1	7/8/2005
tert-Butylbenzene	BQL	0.00494	1	7/8/2005
Carbon disulfide	BQL	0.00494	1	7/8/2005
Carbon tetrachloride	BQL	0.00494	1	7/8/2005
Chlorobenzene	BQL	0.00494	1	7/8/2005
Chloroethane	BQL	0.00494	1	7/8/2005
Chloroform	BQL	0.00494	1	7/8/2005
Chloromethane	BQL	0.00494	1	7/8/2005
2-Chlorotoluene	BQL	0.00494	1	7/8/2005
4-Chlorotoluene	BQL	0.00494	1	7/8/2005
Dibromochloromethane	BQL	0.00494	1	7/8/2005
1,2-Dibromo-3-chloropropane	BQL	0.00494	1	7/8/2005
Dibromomethane	BQL	0.00494	1	7/8/2005
1,2-Dibromoethane (EDB)	BQL	0.00494	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.00494	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.00494	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.00494	1	7/8/2005
trans-1,4-Dichloro-2-butene	BQL	0.00494	1	7/8/2005
1,1-Dichloroethane	BQL	0.00494	1	7/8/2005
1,1-Dichloroethene	BQL	0.00494	1	7/8/2005
1,2-Dichloroethane	BQL	0.00494	1	7/8/2005
cis-1,2-Dichloroethene	BQL	0.00494	1	7/8/2005
trans-1,2-dichloroethene	BQL	0.00494	1	7/8/2005
1,2-Dichloropropane	BQL	0.00494	1	7/8/2005
1,3-Dichloropropane	BQL	0.00494	1	7/8/2005
2,2-Dichloropropane	BQL	0.00494	1	7/8/2005
1,1-Dichloropropene	BQL	0.00494	1	7/8/2005
cis-1,3-Dichloropropene	BQL	0.00494	1	7/8/2005
trans-1,3-Dichloropropene	BQL	0.00494	1	7/8/2005
Dichlorodifluoromethane	BQL	0.00494	1	7/8/2005
Diisopropyl ether (DIPE)	BQL	0.00494	1	7/8/2005
Ethylbenzene	BQL	0.00494	1	7/8/2005
Hexachlorobutadiene	BQL	0.00494	1	7/8/2005
2-Hexanone	BQL	0.00494	1	7/8/2005
Iodomethane	BQL	0.00494	1	7/8/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: ~~MW-1-7~~ SMW1-7 JR
Client Project ID: Sierra Property
Lab Sample ID G161-2055-2A
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: RNP
Date Collected: 07-01-2005 10:05
Date Received: 7/5/2005
Matrix: Soil
%Solids: 88.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00494	1	7/8/2005
4-Isopropyltoluene	BQL	0.00494	1	7/8/2005
Methylene chloride	BQL	0.0198	1	7/8/2005
4-Methyl-2-pentanone	BQL	0.00494	1	7/8/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00494	1	7/8/2005
Naphthalene	BQL	0.00494	1	7/8/2005
n-Propyl benzene	BQL	0.00494	1	7/8/2005
Styrene	BQL	0.00494	1	7/8/2005
1,1,1,2-Tetrachloroethane	BQL	0.00494	1	7/8/2005
1,1,2,2-Tetrachloroethane	BQL	0.00494	1	7/8/2005
Tetrachloroethene	BQL	0.00494	1	7/8/2005
Toluene	BQL	0.00494	1	7/8/2005
1,2,3-Trichlorobenzene	BQL	0.00494	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.00494	1	7/8/2005
Trichloroethene	BQL	0.00494	1	7/8/2005
1,1,1-Trichloroethane	BQL	0.00494	1	7/8/2005
1,1,2-Trichloroethane	BQL	0.00494	1	7/8/2005
Trichlorofluoromethane	BQL	0.00494	1	7/8/2005
1,2,3-Trichloropropane	BQL	0.00494	1	7/8/2005
1,2,4-Trimethylbenzene	BQL	0.00494	1	7/8/2005
1,3,5-Trimethylbenzene	BQL	0.00494	1	7/8/2005
Vinyl chloride	BQL	0.00494	1	7/8/2005
m-,p-Xylene	BQL	0.00988	1	7/8/2005
o-Xylene	BQL	0.00494	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.049	98
1,2-Dichloroethane-d4	0.05	0.0522	104
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: ~~MW-1-7~~ SMW-1-7 JR
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-2H
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:05
Date Received: 7/5/2005
Date Extracted: 7/11/2005
Matrix: Soil
% Solids: 88.3

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.348	1	7/11/2005
Acenaphthylene	BQL	0.348	1	7/11/2005
Anthracene	BQL	0.348	1	7/11/2005
Benzo[a]anthracene	BQL	0.348	1	7/11/2005
Benzo[a]pyrene	BQL	0.348	1	7/11/2005
Benzo[b]fluoranthene	BQL	0.348	1	7/11/2005
Benzo[g,h,i]perylene	BQL	0.348	1	7/11/2005
Benzo[k]fluoranthene	BQL	0.348	1	7/11/2005
Bis(2-chloroethoxy)methane	BQL	0.348	1	7/11/2005
Bis(2-chloroethyl)ether	BQL	0.348	1	7/11/2005
Bis(2-chloroisopropyl)ether	BQL	0.348	1	7/11/2005
Bis(2-ethylhexyl)phthalate	BQL	0.348	1	7/11/2005
4-bromophenyl phenyl ether	BQL	0.348	1	7/11/2005
Butylbenzylphthalate	BQL	0.348	1	7/11/2005
2-Chloronaphthalene	BQL	0.348	1	7/11/2005
4-Chloroaniline	BQL	1.74	1	7/11/2005
4-Chlorophenyl phenyl ether	BQL	0.348	1	7/11/2005
Chrysene	BQL	0.348	1	7/11/2005
Dibenzo[a,h]anthracene	BQL	0.348	1	7/11/2005
Dibenzofuran	BQL	0.348	1	7/11/2005
Di-n-Butylphthalate	BQL	0.348	1	7/11/2005
1,2-Dichlorobenzene	BQL	0.348	1	7/11/2005
1,3-Dichlorobenzene	BQL	0.348	1	7/11/2005
1,4-Dichlorobenzene	BQL	0.348	1	7/11/2005
3,3'-Dichlorobenzidine	BQL	0.696	1	7/11/2005
Diethylphthalate	BQL	0.348	1	7/11/2005
Dimethylphthalate	BQL	0.348	1	7/11/2005
Di-n-octylphthalate	BQL	0.348	1	7/11/2005
2,4-Dinitrotoluene	BQL	0.348	1	7/11/2005
2,6-Dinitrotoluene	BQL	0.348	1	7/11/2005
Diphenylamine *	BQL	0.348	1	7/11/2005
Fluoranthene	BQL	0.348	1	7/11/2005
Fluorene	BQL	0.348	1	7/11/2005
Hexachlorobenzene	BQL	0.348	1	7/11/2005
Hexachlorobutadiene	BQL	0.348	1	7/11/2005
Hexachlorocyclopentadiene	BQL	0.696	1	7/11/2005
Hexachloroethane	BQL	0.348	1	7/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.348	1	7/11/2005
Isophorone	BQL	0.348	1	7/11/2005
2-Methylnaphthalene	BQL	0.348	1	7/11/2005
Naphthalene	BQL	0.348	1	7/11/2005
2-Nitroaniline	BQL	0.348	1	7/11/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: ~~MW-1-7~~ SMW1-7 JR.
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-2H
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:05
Date Received: 7/5/2005
Date Extracted: 7/11/2005
Matrix: Soil
% Solids: 88.3

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.74	1	7/11/2005
4-Nitroaniline	BQL	1.74	1	7/11/2005
Nitrobenzene	BQL	0.348	1	7/11/2005
N-Nitrosodi-n-propylamine	BQL	0.348	1	7/11/2005
Phenanthrene	BQL	0.348	1	7/11/2005
Pyrene	BQL	0.348	1	7/11/2005
1,2,4-Trichlorobenzene	BQL	0.348	1	7/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10.3	103
4-Terphenyl-d14	10	13.1	131

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: PNP

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	~~MW-1-7~~ Smw1-7
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	88
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	97
Surrogate % Recovery - FID	93

* = 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: G161-2055-2E

Reviewed By: BW

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	~~MW-1-7~~ SMW1-7
Sample Matrix	Soil
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/08/05
Date Analyzed	07/08/05
Dry Weight	88.3
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: G161-2055-2G

Reviewed By: RW

Results for Volatiles
by GCMS 8260B

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
Lab Project ID:
Report Basis: Dry Weight

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

Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Acetone	BQL	1.25	50	7/12/2005
Benzene	BQL	0.0500	50	7/12/2005
Bromobenzene	BQL	0.0500	50	7/12/2005
Bromochloromethane	BQL	0.0500	50	7/12/2005
Bromodichloromethane	BQL	0.0500	50	7/12/2005
Bromoform	BQL	0.0500	50	7/12/2005
Bromomethane	BQL	0.0500	50	7/12/2005
2-Butanone	BQL	1.25	50	7/12/2005
n-Butylbenzene	BQL	0.0500	50	7/12/2005
sec-Butylbenzene	BQL	0.0500	50	7/12/2005
tert-Butylbenzene	BQL	0.0500	50	7/12/2005
Carbon disulfide	BQL	0.0500	50	7/12/2005
Carbon tetrachloride	BQL	0.0500	50	7/12/2005
Chlorobenzene	BQL	0.0500	50	7/12/2005
Chloroethane	BQL	0.0500	50	7/12/2005
Chloroform	BQL	0.0500	50	7/12/2005
Chloromethane	BQL	0.0500	50	7/12/2005
2-Chlorotoluene	BQL	0.0500	50	7/12/2005
4-Chlorotoluene	BQL	0.0500	50	7/12/2005
Dibromochloromethane	BQL	0.0500	50	7/12/2005
1,2-Dibromo-3-chloropropane	BQL	0.250	50	7/12/2005
Dibromomethane	BQL	0.0500	50	7/12/2005
1,2-Dibromoethane (EDB)	BQL	0.0500	50	7/12/2005
1,2-Dichlorobenzene	BQL	0.0500	50	7/12/2005
1,3-Dichlorobenzene	BQL	0.0500	50	7/12/2005
1,4-Dichlorobenzene	BQL	0.0500	50	7/12/2005
trans-1,4-Dichloro-2-butene	BQL	0.250	50	7/12/2005
1,1-Dichloroethane	BQL	0.0500	50	7/12/2005
1,1-Dichloroethene	BQL	0.0500	50	7/12/2005
1,2-Dichloroethane	BQL	0.0500	50	7/12/2005
cis-1,2-Dichloroethene	BQL	0.0500	50	7/12/2005
trans-1,2-dichloroethene	BQL	0.0500	50	7/12/2005
1,2-Dichloropropane	BQL	0.0500	50	7/12/2005
1,3-Dichloropropane	BQL	0.0500	50	7/12/2005
2,2-Dichloropropane	BQL	0.0500	50	7/12/2005
1,1-Dichloropropene	BQL	0.0500	50	7/12/2005
cis-1,3-Dichloropropene	BQL	0.0500	50	7/12/2005
trans-1,3-Dichloropropene	BQL	0.0500	50	7/12/2005
Dichlorodifluoromethane	BQL	0.250	50	7/12/2005
Diisopropyl ether (DIPE)	BQL	0.0500	50	7/12/2005
Ethylbenzene	BQL	0.0500	50	7/12/2005
Hexachlorobutadiene	BQL	0.0500	50	7/12/2005
2-Hexanone	BQL	0.250	50	7/12/2005
Iodomethane	BQL	0.0500	50	7/12/2005
Isopropylbenzene	BQL	0.0500	50	7/12/2005

Results for Volatiles
by GCMS 8260B

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
Lab Project ID:
Report Basis: Dry Weight

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

Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	0.0500	50	7/12/2005
Methylene chloride	BQL	0.250	50	7/12/2005
4-Methyl-2-pentanone	BQL	0.250	50	7/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.0500	50	7/12/2005
Naphthalene	BQL	0.0500	50	7/12/2005
n-Propyl benzene	BQL	0.0500	50	7/12/2005
Styrene	BQL	0.0500	50	7/12/2005
1,1,1,2-Tetrachloroethane	BQL	0.0500	50	7/12/2005
1,1,2,2-Tetrachloroethane	BQL	0.0500	50	7/12/2005
Tetrachloroethene	BQL	0.0500	50	7/12/2005
Toluene	BQL	0.0500	50	7/12/2005
1,2,3-Trichlorobenzene	BQL	0.0500	50	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.0500	50	7/12/2005
Trichloroethene	BQL	0.0500	50	7/12/2005
1,1,1-Trichloroethane	BQL	0.0500	50	7/12/2005
1,1,2-Trichloroethane	BQL	0.0500	50	7/12/2005
Trichlorofluoromethane	BQL	0.0500	50	7/12/2005
1,2,3-Trichloropropane	BQL	0.0500	50	7/12/2005
1,2,4-Trimethylbenzene	BQL	0.0500	50	7/12/2005
1,3,5-Trimethylbenzene	BQL	0.0500	50	7/12/2005
Vinyl chloride	BQL	0.0500	50	7/12/2005
m-,p-Xylene	BQL	0.100	50	7/12/2005
o-Xylene	BQL	0.0500	50	7/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.0105	105
1,2-Dichloroethane-d4	0.01	0.00884	88
Toluene-d8	0.01	0.0102	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

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

Lab Sample ID: vstd10
Analyst: JTF
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 12:25 pm
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.70	94.1	77.4	123
chlorobenzene	5.0	4.84	96.7	72.5	128
1,1-dichloroethene	5.0	4.79	95.9	71.7	128
toluene	5.0	4.81	96.1	75.9	124
trichloroethene	5.0	4.73	94.5	77.9	122

Comments:
Concentration values are on column amount.

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

Reviewed By: _____

VO42.072303.1

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g235-83-2a
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 10:31 pm
Matrix: water
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	5	102.3	96.1	61.6	135	6.2	30
chlorobenzene	BQL	5	110.7	103.2	77.2	118	7.1	30
1,1-dichloroethene	BQL	5	106.6	97.6	64.4	130	8.8	30
toluene	BQL	5	105.0	97.2	66.4	128	7.6	30
trichloroethene	BQL	5	104.9	98.2	84.9	136	6.6	30

Comments:

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

Flags:

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

Reviewed By: _____

VO43.072303.1

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3070805B
Lab Project ID:
Report Basis: Dry Weight

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

Report Name Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/8/2005
Benzene	BQL	0.00500	1	7/8/2005
Bromobenzene	BQL	0.00500	1	7/8/2005
Bromochloromethane	BQL	0.00500	1	7/8/2005
Bromodichloromethane	BQL	0.00500	1	7/8/2005
Bromoform	BQL	0.00500	1	7/8/2005
Bromomethane	BQL	0.00500	1	7/8/2005
2-Butanone	BQL	0.0250	1	7/8/2005
n-Butylbenzene	BQL	0.00500	1	7/8/2005
sec-Butylbenzene	BQL	0.00500	1	7/8/2005
tert-Butylbenzene	BQL	0.00500	1	7/8/2005
Carbon disulfide	BQL	0.00500	1	7/8/2005
Carbon tetrachloride	BQL	0.00500	1	7/8/2005
Chlorobenzene	BQL	0.00500	1	7/8/2005
Chloroethane	BQL	0.00500	1	7/8/2005
Chloroform	BQL	0.00500	1	7/8/2005
Chloromethane	BQL	0.00500	1	7/8/2005
2-Chlorotoluene	BQL	0.00500	1	7/8/2005
4-Chlorotoluene	BQL	0.00500	1	7/8/2005
Dibromochloromethane	BQL	0.00500	1	7/8/2005
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/8/2005
Dibromomethane	BQL	0.00500	1	7/8/2005
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.00500	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.00500	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.00500	1	7/8/2005
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/8/2005
1,1-Dichloroethane	BQL	0.00500	1	7/8/2005
1,1-Dichloroethene	BQL	0.00500	1	7/8/2005
1,2-Dichloroethane	BQL	0.00500	1	7/8/2005
cis-1,2-Dichloroethene	BQL	0.00500	1	7/8/2005
trans-1,2-dichloroethene	BQL	0.00500	1	7/8/2005
1,2-Dichloropropane	BQL	0.00500	1	7/8/2005
1,3-Dichloropropane	BQL	0.00500	1	7/8/2005
2,2-Dichloropropane	BQL	0.00500	1	7/8/2005
1,1-Dichloropropene	BQL	0.00500	1	7/8/2005
cis-1,3-Dichloropropene	BQL	0.00500	1	7/8/2005
trans-1,3-Dichloropropene	BQL	0.00500	1	7/8/2005
Dichlorodifluoromethane	BQL	0.00500	1	7/8/2005
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/8/2005
Ethylbenzene	BQL	0.00500	1	7/8/2005
Hexachlorobutadiene	BQL	0.00500	1	7/8/2005
2-Hexanone	BQL	0.00500	1	7/8/2005
Iodomethane	BQL	0.00500	1	7/8/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3070805B
Lab Project ID:
Report Basis: Dry Weight

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

Report Name Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00500	1	7/8/2005
4-Isopropyltoluene	BQL	0.00500	1	7/8/2005
Methylene chloride	BQL	0.0200	1	7/8/2005
4-Methyl-2-pentanone	BQL	0.00500	1	7/8/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/8/2005
Naphthalene	BQL	0.00500	1	7/8/2005
n-Propyl benzene	BQL	0.00500	1	7/8/2005
Styrene	BQL	0.00500	1	7/8/2005
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/8/2005
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/8/2005
Tetrachloroethene	BQL	0.00500	1	7/8/2005
Toluene	BQL	0.00500	1	7/8/2005
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/8/2005
Trichloroethene	BQL	0.00500	1	7/8/2005
1,1,1-Trichloroethane	BQL	0.00500	1	7/8/2005
1,1,2-Trichloroethane	BQL	0.00500	1	7/8/2005
Trichlorofluoromethane	BQL	0.00500	1	7/8/2005
1,2,3-Trichloropropane	BQL	0.00500	1	7/8/2005
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/8/2005
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/8/2005
Vinyl chloride	BQL	0.00500	1	7/8/2005
m-,p-Xylene	BQL	0.0100	1	7/8/2005
o-Xylene	BQL	0.00500	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.049	98
1,2-Dichloroethane-d4	0.05	0.0506	101
Toluene-d8	0.05	0.0484	97

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: RNP

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

Client Project ID: Batch QC
Lab Sample ID: G161-2047-15c
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 6:42 pm
Matrix: Soil
Analyzed By: RNP

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	0.5	100	102.6	103.2	74.8	133	0.6	30
chlorobenzene	BQL	100	86.4	88.0	66.3	135	1.9	30
1,1-dichloroethene	BQL	100	105.1	103.5	72.0	135	1.6	30
toluene	5.1	100	95.6	107.6	70.5	138	11.7	30
trichloroethene	BQL	100	97.6	97.9	60.7	152	0.4	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 LCS/LCSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: LCS3070805b
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 9:20 am
Matrix: Soil
Analyzed By: RNP

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	100	98.0	102.2	77.6	122	4.3	30
chlorobenzene	100	94.9	99.1	75.3	125	4.3	30
1,1-dichloroethene	100	101.5	106.0	78.5	121	4.4	30
toluene	100	101.8	105.8	75.7	124	3.9	30
trichloroethene	100	98.3	101.7	60.8	139	3.4	30

Comments:

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

Flags:

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

Reviewed By: RJP

VO41.072303.1

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3187
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	313	1	7/8/2005
Acenaphthylene	BQL	313	1	7/8/2005
Anthracene	BQL	313	1	7/8/2005
Benzo[a]anthracene	BQL	313	1	7/8/2005
Benzo[a]pyrene	BQL	313	1	7/8/2005
Benzo[b]fluoranthene	BQL	313	1	7/8/2005
Benzo[g,h,i]perylene	BQL	313	1	7/8/2005
Benzo[k]fluoranthene	BQL	313	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	313	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	313	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	313	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	313	1	7/8/2005
4-bromophenyl phenyl ether	BQL	313	1	7/8/2005
Butylbenzylphthalate	BQL	313	1	7/8/2005
2-Chloronaphthalene	BQL	313	1	7/8/2005
4-Chloroaniline	BQL	1560	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	313	1	7/8/2005
Chrysene	BQL	313	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	313	1	7/8/2005
Dibenzofuran	BQL	313	1	7/8/2005
Di-n-Butylphthalate	BQL	313	1	7/8/2005
1,2-Dichlorobenzene	BQL	313	1	7/8/2005
1,3-Dichlorobenzene	BQL	313	1	7/8/2005
1,4-Dichlorobenzene	BQL	313	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	625	1	7/8/2005
Diethylphthalate	BQL	313	1	7/8/2005
Dimethylphthalate	BQL	313	1	7/8/2005
Di-n-octylphthalate	BQL	313	1	7/8/2005
2,4-Dinitrotoluene	BQL	313	1	7/8/2005
2,6-Dinitrotoluene	BQL	313	1	7/8/2005
Diphenylamine *	BQL	313	1	7/8/2005
Fluoranthene	BQL	313	1	7/8/2005
Fluorene	BQL	313	1	7/8/2005
Hexachlorobenzene	BQL	313	1	7/8/2005
Hexachlorobutadiene	BQL	313	1	7/8/2005
Hexachlorocyclopentadiene	BQL	625	1	7/8/2005
Hexachloroethane	BQL	313	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	313	1	7/8/2005
Isophorone	BQL	313	1	7/8/2005
2-Methylnaphthalene	BQL	313	1	7/8/2005
Naphthalene	BQL	313	1	7/8/2005
2-Nitroaniline	BQL	313	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3187
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1560	1	7/8/2005
4-Nitroaniline	BQL	1560	1	7/8/2005
Nitrobenzene	BQL	313	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	313	1	7/8/2005
Phenanthrene	BQL	313	1	7/8/2005
Pyrene	BQL	313	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	313	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.7	106
Nitrobenzene-d5	10	10.4	104
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 for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3202
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/11/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	313	1	7/11/2005
Acenaphthylene	BQL	313	1	7/11/2005
Anthracene	BQL	313	1	7/11/2005
Benzo[a]anthracene	BQL	313	1	7/11/2005
Benzo[a]pyrene	BQL	313	1	7/11/2005
Benzo[b]fluoranthene	BQL	313	1	7/11/2005
Benzo[g,h,i]perylene	BQL	313	1	7/11/2005
Benzo[k]fluoranthene	BQL	313	1	7/11/2005
Bis(2-chloroethoxy)methane	BQL	313	1	7/11/2005
Bis(2-chloroethyl)ether	BQL	313	1	7/11/2005
Bis(2-chloroisopropyl)ether	BQL	313	1	7/11/2005
Bis(2-ethylhexyl)phthalate	BQL	313	1	7/11/2005
4-bromophenyl phenyl ether	BQL	313	1	7/11/2005
Butylbenzylphthalate	BQL	313	1	7/11/2005
2-Chloronaphthalene	BQL	313	1	7/11/2005
4-Chloroaniline	BQL	1560	1	7/11/2005
4-Chlorophenyl phenyl ether	BQL	313	1	7/11/2005
Chrysene	BQL	313	1	7/11/2005
Dibenzo[a,h]anthracene	BQL	313	1	7/11/2005
Dibenzofuran	BQL	313	1	7/11/2005
Di-n-Butylphthalate	BQL	313	1	7/11/2005
1,2-Dichlorobenzene	BQL	313	1	7/11/2005
1,3-Dichlorobenzene	BQL	313	1	7/11/2005
1,4-Dichlorobenzene	BQL	313	1	7/11/2005
3,3'-Dichlorobenzidine	BQL	625	1	7/11/2005
Diethylphthalate	BQL	313	1	7/11/2005
Dimethylphthalate	BQL	313	1	7/11/2005
Di-n-octylphthalate	BQL	313	1	7/11/2005
2,4-Dinitrotoluene	BQL	313	1	7/11/2005
2,6-Dinitrotoluene	BQL	313	1	7/11/2005
Diphenylamine *	BQL	313	1	7/11/2005
Fluoranthene	BQL	313	1	7/11/2005
Fluorene	BQL	313	1	7/11/2005
Hexachlorobenzene	BQL	313	1	7/11/2005
Hexachlorobutadiene	BQL	313	1	7/11/2005
Hexachlorocyclopentadiene	BQL	625	1	7/11/2005
Hexachloroethane	BQL	313	1	7/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	313	1	7/11/2005
Isophorone	BQL	313	1	7/11/2005
2-Methylnaphthalene	BQL	313	1	7/11/2005
Naphthalene	BQL	313	1	7/11/2005
2-Nitroaniline	BQL	313	1	7/11/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3202
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/11/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1560	1	7/11/2005
4-Nitroaniline	BQL	1560	1	7/11/2005
Nitrobenzene	BQL	313	1	7/11/2005
N-Nitrosodi-n-propylamine	BQL	313	1	7/11/2005
Phenanthrene	BQL	313	1	7/11/2005
Pyrene	BQL	313	1	7/11/2005
1,2,4-Trichlorobenzene	BQL	313	1	7/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	11.4	114
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	13.4	134

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC
Client Sample ID:
Lab Sample ID: Batch-3187-MS/MSD/LCS
Lab Project ID:
Matrix: SOIL
Prep Method: 3540

Date Collected:
Date Received:
Date Extracted: 07/07/05
Date Analyzed: 07/08/05
Analyzed By: MRC
Dilution: 1

	Sample Amount (µg/kg)	MS Spike (µg/kg)	MS Conc. (µg/kg)	MS Spike % Rec.	MSD Spike (µg/kg)	MSD Conc. (µg/kg)	MSD Conc. % Rec.	RPD	QC Limits RPD	QC Limits % Rec.
Acenaphthylene	BQL	3330	4250	128	326	417	128.0	0.1	30	79.0-141
4-Chloro-3-methylphenol	BQL	3330	3430	103	326	349	107.0	3.62	30	40.0-133
2-Chlorophenol	BQL	3330	3350	101	326	336	103.0	2.16	30	64.0-108
1,4-Dichlorobenzene	BQL	3330	3530	106*	326	355	109*	2.60	30	56.0-95.0
2,4-Dinitrotoluene	BQL	3330	3720	112	326	368	113.0	0.713	30	48.0-121
N-Nitrosodi-n-propylamine	BQL	3330	3840	115	326	401	123*	6.38	30	70.0-119
4-Nitrophenol	BQL	3330	3580	108	326	391	120.0	10.6	30	40.0-147
Pentachlorophenol	BQL	3330	2580	77.6	326	265	81.1	4.41	30	40.0-122
Phenol	BQL	3330	3420	103	326	345	106.0	2.59	30	40.0-127
Pyrene	BQL	3330	5230	157*	326	507	155*	1.15	30	56.0-123
1,2,4-Trichlorobenzene	BQL	3330	3380	102	326	350	107*	5.56	30	65.0-105

	Spiked Amount (µg/kg)	LCS Conc. (µg/kg)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	3125	3780	121	66.7-146
4-Chloro-3-methylphenol	3125	3320	106	49.4-117
2-Chlorophenol	3125	3090	99.0	51.5-110
1,4-Dichlorobenzene	3125	3270	105*	51.1-100
2,4-Dinitrotoluene	3125	3490	112	51.1-120
N-Nitrosodi-n-propylamine	3125	3670	117	53.1-128
4-Nitrophenol	3125	3850	123*	39.5-118
Pentachlorophenol	3125	2520	80.8	38.8-99.4
Phenol	3125	3130	100	51.2-116
Pyrene	3125	4220	135*	38.0-132
1,2,4-Trichlorobenzene	3125	3170	102	55.1-111

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: BW

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/08/05 PID Initial Calibration Date: 06/08/05

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	3.6	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.988	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	12.9	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/08/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	16.0
C_9-C_{12} Aliphatics	500	50	-7.1
C_9-C_{10} Aromatics	500	50	-0.4

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

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: 07/08/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18 2
C_{19}-C_{36} Aliphatics	160	13 0
C_{11}-C_{22} Aromatics	340	-5 2

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: 07/12/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	21.1
C_{19}-C_{36} Aliphatics	160	3.4
C_{11}-C_{22} Aromatics	340	6.6

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

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# 47732
Page 1 of 1

Client: ECS, Ltd.
Address: 6909 International Drive
Address: Greensboro, NC 27409
Quote #:

Project ID: Sierra Property
Contact: John Lair
Phone: (336) 856-7150
Fax: (336) 856-7160

Date: 7/1/05
Turnaround: 7/8/05
Job Number: G-9506
P.O. Number:

Report To: ECS, Ltd.
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Methanol	Sodium bisulfate	Analyses: 8260/5035	8270 MS	VPH	EPH						Comments: Please specify any special reporting requirements
MW-1-2 5/MW1-2 JR	7/1/05	1000	S	X	X	X	X	X	X	X						City of Greensboro S. Elm Street Project.
MW-1-7 5/MW1-7 JR	7/1/05	1005	S	X	X	X	X	X	X	X						
																G161-2055

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/1/05		Fed-Ex	7/1/05		On Ice	NC (X) SC ____ Other ____
			[signature]	7/5/05	10:55	2.90	SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

SIERRA PROPERTY
LABORATORY QA/QC DATA

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

Mr. John Lair
ECS
6909 International Drive
Suite 103
Greensboro NC 27409
Report Number: G161-2055

Client Project: Sierra Property

Dear Mr. Lair:

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.

Laboratory Director 7/25/2011
Date
J. Patrick Weaver

CASE NARRATIVE

Date: September 16, 2005

ECS Project ID: Sierra Property
Paradigm Analytical ID: G161-2005

Two soil samples were received at the laboratory July 5 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

Both samples passed surrogate spike limits.

Both MS/MSD pairs passed all acceptance limits.

Both LCSs passed acceptance limits.

8270

Both samples passed surrogate spike limits.

Both MS/MSD pairs had some recovery failures.

Both associated LCSs passed all recovery limits allowing data validation.

VPH

Both samples passed surrogate spike limits.

Both MS/MSD pairs passed all acceptance limits.

Both LCSs passed acceptance limits.

EPH

Both samples passed surrogate spike limits.

Both MS/MSD pairs passed all acceptance limits.

Both LCSs passed acceptance limits.

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# 47732

Page 1 of 1

3 of 530

Client: ECS, Ltd.
Address: 6909 International Drive
Address: Greensboro, NC 27409
Quote #:

Project ID: Sierra Property
Contact: John Carr
Phone: (336) 856-7150
Fax: (336) 856-7160

Date: 7/1/05
Turnaround: 7/8/05
Job Number: G-9506
P.O. Number:

Report To: ECS, Ltd.
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: None	Methanol	Sodium Bisulfate	Analyses: 8260/5035	8270 BN	VPH	EPH						Comments: Please specify any special reporting requirements
MW-1-2	7/1/05	1000	S	X	X	X	X	X	X	X						City of Greensboro S. Elm Street Project.
MW-1-7	7/1/05	1005	S	X	X	X	X	X	X	X						
																G161-2055

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	7/1/05		Fed-Ex	7/1/05		On Ice	NC (X) SC ____ Other ____
			[signature]	7/5/05	10:55	2.90	SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. Certification #481 S.C. Certification #99029

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

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: MW-1-2
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1D
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 7/1/05 10:00
Date Received: 7/5/05
Matrix: Soil
%Solids: 89.6

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	1.10	50	7/12/05
Benzene	BQL	0.0442	50	7/12/05
Bromobenzene	BQL	0.0442	50	7/12/05
Bromochloromethane	BQL	0.0442	50	7/12/05
Bromodichloromethane	BQL	0.0442	50	7/12/05
Bromoform	BQL	0.0442	50	7/12/05
Bromomethane	BQL	0.0442	50	7/12/05
2-Butanone	BQL	1.10	50	7/12/05
n-Butylbenzene	BQL	0.0442	50	7/12/05
sec-Butylbenzene	**1.49**	0.0442	50	7/12/05
tert-Butylbenzene	**0.266**	0.0442	50	7/12/05
Carbon disulfide	BQL	0.0442	50	7/12/05
Carbon tetrachloride	BQL	0.0442	50	7/12/05
Chlorobenzene	BQL	0.0442	50	7/12/05
Chloroethane	BQL	0.0442	50	7/12/05
Chloroform	BQL	0.0442	50	7/12/05
Chloromethane	BQL	0.0442	50	7/12/05
2-Chlorotoluene	BQL	0.0442	50	7/12/05
4-Chlorotoluene	BQL	0.0442	50	7/12/05
Dibromochloromethane	BQL	0.0442	50	7/12/05
1,2-Dibromo-3-chloropropane	BQL	0.221	50	7/12/05
Dibromomethane	BQL	0.0442	50	7/12/05
1,2-Dibromoethane (EDB)	BQL	0.0442	50	7/12/05
1,2-Dichlorobenzene	BQL	0.0442	50	7/12/05
1,3-Dichlorobenzene	BQL	0.0442	50	7/12/05
1,4-Dichlorobenzene	BQL	0.0442	50	7/12/05
trans-1,4-Dichloro-2-butene	BQL	0.221	50	7/12/05
1,1-Dichloroethane	BQL	0.0442	50	7/12/05
1,1-Dichloroethene	BQL	0.0442	50	7/12/05
1,2-Dichloroethane	BQL	0.0442	50	7/12/05
cis-1,2-Dichloroethene	BQL	0.0442	50	7/12/05
trans-1,2-dichloroethene	BQL	0.0442	50	7/12/05
1,2-Dichloropropane	BQL	0.0442	50	7/12/05
1,3-Dichloropropane	BQL	0.0442	50	7/12/05
2,2-Dichloropropane	BQL	0.0442	50	7/12/05
1,1-Dichloropropene	BQL	0.0442	50	7/12/05
cis-1,3-Dichloropropene	BQL	0.0442	50	7/12/05
trans-1,3-Dichloropropene	BQL	0.0442	50	7/12/05
Dichlorodifluoromethane	BQL	0.221	50	7/12/05
Diisopropyl ether (DIPE)	BQL	0.0442	50	7/12/05
Ethylbenzene	**0.467**	0.0442	50	7/12/05
Hexachlorobutadiene	BQL	0.0442	50	7/12/05

Results for Volatiles
by GCMS 8260B/5035

Client Sample ID: MW-1-2
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1D
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 7/1/05 10:00
Date Received: 7/5/05
Matrix: Soil
%Solids: 89.6

Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.221	50	7/12/05
Iodomethane	BQL	0.0442	50	7/12/05
Isopropylbenzene	**0.0844**	0.0442	50	7/12/05
4-Isopropyltoluene	BQL	0.0442	50	7/12/05
Methylene chloride	BQL	0.221	50	7/12/05
4-Methyl-2-pentanone	BQL	0.221	50	7/12/05
Methyl-tert-butyl ether (MTBE)	BQL	0.0442	50	7/12/05
Naphthalene	**0.0892**	0.0442	50	7/12/05
n-Propyl benzene	**0.317**	0.0442	50	7/12/05
Styrene	BQL	0.0442	50	7/12/05
1,1,1,2-Tetrachloroethane	BQL	0.0442	50	7/12/05
1,1,2,2-Tetrachloroethane	BQL	0.0442	50	7/12/05
Tetrachloroethene	BQL	0.0442	50	7/12/05
Toluene	**1.27**	0.0442	50	7/12/05
1,2,3-Trichlorobenzene	BQL	0.0442	50	7/12/05
1,2,4-Trichlorobenzene	BQL	0.0442	50	7/12/05
Trichloroethene	BQL	0.0442	50	7/12/05
1,1,1-Trichloroethane	BQL	0.0442	50	7/12/05
1,1,2-Trichloroethane	BQL	0.0442	50	7/12/05
Trichlorofluoromethane	BQL	0.0442	50	7/12/05
1,2,3-Trichloropropane	BQL	0.0442	50	7/12/05
1,2,4-Trimethylbenzene	**1.92**	0.0442	50	7/12/05
1,3,5-Trimethylbenzene	**0.599**	0.0442	50	7/12/05
Vinyl chloride	BQL	0.0442	50	7/12/05
m-,p-Xylene	**2.60**	0.0883	50	7/12/05
o-Xylene	**1.23**	0.0442	50	7/12/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.0102	102
1,2-Dichloroethane-d4	0.01	0.00814	81
Toluene-d8	0.01	0.0102	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: MW-1-7
Client Project ID: Sierra Property
Lab Sample ID G161-2055-2A
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: RNP
Date Collected: 07-01-2005 10:05
Date Received: 7/5/2005
Matrix: Soil
%Solids: 88.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0494	1	7/8/2005
Benzene	BQL	0.00494	1	7/8/2005
Bromobenzene	BQL	0.00494	1	7/8/2005
Bromochloromethane	BQL	0.00494	1	7/8/2005
Bromodichloromethane	BQL	0.00494	1	7/8/2005
Bromoform	BQL	0.00494	1	7/8/2005
Bromomethane	BQL	0.00494	1	7/8/2005
2-Butanone	BQL	0.0247	1	7/8/2005
n-Butylbenzene	BQL	0.00494	1	7/8/2005
sec-Butylbenzene	BQL	0.00494	1	7/8/2005
tert-Butylbenzene	BQL	0.00494	1	7/8/2005
Carbon disulfide	BQL	0.00494	1	7/8/2005
Carbon tetrachloride	BQL	0.00494	1	7/8/2005
Chlorobenzene	BQL	0.00494	1	7/8/2005
Chloroethane	BQL	0.00494	1	7/8/2005
Chloroform	BQL	0.00494	1	7/8/2005
Chloromethane	BQL	0.00494	1	7/8/2005
2-Chlorotoluene	BQL	0.00494	1	7/8/2005
4-Chlorotoluene	BQL	0.00494	1	7/8/2005
Dibromochloromethane	BQL	0.00494	1	7/8/2005
1,2-Dibromo-3-chloropropane	BQL	0.00494	1	7/8/2005
Dibromomethane	BQL	0.00494	1	7/8/2005
1,2-Dibromoethane (EDB)	BQL	0.00494	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.00494	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.00494	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.00494	1	7/8/2005
trans-1,4-Dichloro-2-butene	BQL	0.00494	1	7/8/2005
1,1-Dichloroethane	BQL	0.00494	1	7/8/2005
1,1-Dichloroethene	BQL	0.00494	1	7/8/2005
1,2-Dichloroethane	BQL	0.00494	1	7/8/2005
cis-1,2-Dichloroethene	BQL	0.00494	1	7/8/2005
trans-1,2-dichloroethene	BQL	0.00494	1	7/8/2005
1,2-Dichloropropane	BQL	0.00494	1	7/8/2005
1,3-Dichloropropane	BQL	0.00494	1	7/8/2005
2,2-Dichloropropane	BQL	0.00494	1	7/8/2005
1,1-Dichloropropene	BQL	0.00494	1	7/8/2005
cis-1,3-Dichloropropene	BQL	0.00494	1	7/8/2005
trans-1,3-Dichloropropene	BQL	0.00494	1	7/8/2005
Dichlorodifluoromethane	BQL	0.00494	1	7/8/2005
Diisopropyl ether (DIPE)	BQL	0.00494	1	7/8/2005
Ethylbenzene	BQL	0.00494	1	7/8/2005
Hexachlorobutadiene	BQL	0.00494	1	7/8/2005
2-Hexanone	BQL	0.00494	1	7/8/2005
Iodomethane	BQL	0.00494	1	7/8/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: MW-1-7
Client Project ID: Sierra Property
Lab Sample ID G161-2055-2A
Lab Project ID: G161-2055
Report Basis: Dry Weight

Analyzed By: RNP
Date Collected: 07-01-2005 10:05
Date Received: 7/5/2005
Matrix: Soil
%Solids: 88.3

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00494	1	7/8/2005
4-Isopropyltoluene	BQL	0.00494	1	7/8/2005
Methylene chloride	BQL	0.0198	1	7/8/2005
4-Methyl-2-pentanone	BQL	0.00494	1	7/8/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00494	1	7/8/2005
Naphthalene	BQL	0.00494	1	7/8/2005
n-Propyl benzene	BQL	0.00494	1	7/8/2005
Styrene	BQL	0.00494	1	7/8/2005
1,1,1,2-Tetrachloroethane	BQL	0.00494	1	7/8/2005
1,1,2,2-Tetrachloroethane	BQL	0.00494	1	7/8/2005
Tetrachloroethene	BQL	0.00494	1	7/8/2005
Toluene	BQL	0.00494	1	7/8/2005
1,2,3-Trichlorobenzene	BQL	0.00494	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.00494	1	7/8/2005
Trichloroethene	BQL	0.00494	1	7/8/2005
1,1,1-Trichloroethane	BQL	0.00494	1	7/8/2005
1,1,2-Trichloroethane	BQL	0.00494	1	7/8/2005
Trichlorofluoromethane	BQL	0.00494	1	7/8/2005
1,2,3-Trichloropropane	BQL	0.00494	1	7/8/2005
1,2,4-Trimethylbenzene	BQL	0.00494	1	7/8/2005
1,3,5-Trimethylbenzene	BQL	0.00494	1	7/8/2005
Vinyl chloride	BQL	0.00494	1	7/8/2005
m-,p-Xylene	BQL	0.00988	1	7/8/2005
o-Xylene	BQL	0.00494	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.049	98
1,2-Dichloroethane-d4	0.05	0.0522	104
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By: _____

Results for Volatiles
by GCMS 8260B

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
Lab Project ID:
Report Basis: Dry Weight

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

Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Acetone	BQL	1.25	50	7/12/2005
Benzene	BQL	0.0500	50	7/12/2005
Bromobenzene	BQL	0.0500	50	7/12/2005
Bromochloromethane	BQL	0.0500	50	7/12/2005
Bromodichloromethane	BQL	0.0500	50	7/12/2005
Bromoform	BQL	0.0500	50	7/12/2005
Bromomethane	BQL	0.0500	50	7/12/2005
2-Butanone	BQL	1.25	50	7/12/2005
n-Butylbenzene	BQL	0.0500	50	7/12/2005
sec-Butylbenzene	BQL	0.0500	50	7/12/2005
tert-Butylbenzene	BQL	0.0500	50	7/12/2005
Carbon disulfide	BQL	0.0500	50	7/12/2005
Carbon tetrachloride	BQL	0.0500	50	7/12/2005
Chlorobenzene	BQL	0.0500	50	7/12/2005
Chloroethane	BQL	0.0500	50	7/12/2005
Chloroform	BQL	0.0500	50	7/12/2005
Chloromethane	BQL	0.0500	50	7/12/2005
2-Chlorotoluene	BQL	0.0500	50	7/12/2005
4-Chlorotoluene	BQL	0.0500	50	7/12/2005
Dibromochloromethane	BQL	0.0500	50	7/12/2005
1,2-Dibromo-3-chloropropane	BQL	0.250	50	7/12/2005
Dibromomethane	BQL	0.0500	50	7/12/2005
1,2-Dibromoethane (EDB)	BQL	0.0500	50	7/12/2005
1,2-Dichlorobenzene	BQL	0.0500	50	7/12/2005
1,3-Dichlorobenzene	BQL	0.0500	50	7/12/2005
1,4-Dichlorobenzene	BQL	0.0500	50	7/12/2005
trans-1,4-Dichloro-2-butene	BQL	0.250	50	7/12/2005
1,1-Dichloroethane	BQL	0.0500	50	7/12/2005
1,1-Dichloroethene	BQL	0.0500	50	7/12/2005
1,2-Dichloroethane	BQL	0.0500	50	7/12/2005
cis-1,2-Dichloroethene	BQL	0.0500	50	7/12/2005
trans-1,2-dichloroethene	BQL	0.0500	50	7/12/2005
1,2-Dichloropropane	BQL	0.0500	50	7/12/2005
1,3-Dichloropropane	BQL	0.0500	50	7/12/2005
2,2-Dichloropropane	BQL	0.0500	50	7/12/2005
1,1-Dichloropropene	BQL	0.0500	50	7/12/2005
cis-1,3-Dichloropropene	BQL	0.0500	50	7/12/2005
trans-1,3-Dichloropropene	BQL	0.0500	50	7/12/2005
Dichlorodifluoromethane	BQL	0.250	50	7/12/2005
Diisopropyl ether (DIPE)	BQL	0.0500	50	7/12/2005
Ethylbenzene	BQL	0.0500	50	7/12/2005
Hexachlorobutadiene	BQL	0.0500	50	7/12/2005
2-Hexanone	BQL	0.250	50	7/12/2005
Iodomethane	BQL	0.0500	50	7/12/2005
Isopropylbenzene	BQL	0.0500	50	7/12/2005

Results for Volatiles
by GCMS 8260B

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
Lab Project ID:
Report Basis: Dry Weight

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

Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
4-Isopropyltoluene	BQL	0.0500	50	7/12/2005
Methylene chloride	BQL	0.250	50	7/12/2005
4-Methyl-2-pentanone	BQL	0.250	50	7/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.0500	50	7/12/2005
Naphthalene	BQL	0.0500	50	7/12/2005
n-Propyl benzene	BQL	0.0500	50	7/12/2005
Styrene	BQL	0.0500	50	7/12/2005
1,1,1,2-Tetrachloroethane	BQL	0.0500	50	7/12/2005
1,1,2,2-Tetrachloroethane	BQL	0.0500	50	7/12/2005
Tetrachloroethene	BQL	0.0500	50	7/12/2005
Toluene	BQL	0.0500	50	7/12/2005
1,2,3-Trichlorobenzene	BQL	0.0500	50	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.0500	50	7/12/2005
Trichloroethene	BQL	0.0500	50	7/12/2005
1,1,1-Trichloroethane	BQL	0.0500	50	7/12/2005
1,1,2-Trichloroethane	BQL	0.0500	50	7/12/2005
Trichlorofluoromethane	BQL	0.0500	50	7/12/2005
1,2,3-Trichloropropane	BQL	0.0500	50	7/12/2005
1,2,4-Trimethylbenzene	BQL	0.0500	50	7/12/2005
1,3,5-Trimethylbenzene	BQL	0.0500	50	7/12/2005
Vinyl chloride	BQL	0.0500	50	7/12/2005
m-,p-Xylene	BQL	0.100	50	7/12/2005
o-Xylene	BQL	0.0500	50	7/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.01	0.0105	105
1,2-Dichloroethane-d4	0.01	0.00884	88
Toluene-d8	0.01	0.0102	102

Comments:

Flags:
BQL = Below Quantitation Limits

Reviewed By: RW

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

Lab Sample ID: vstd10
Analyst: JTF
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 12:25 pm
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.70	94.1	77.4	123
chlorobenzene	5.0	4.84	96.7	72.5	128
1,1-dichloroethene	5.0	4.79	95.9	71.7	128
toluene	5.0	4.81	96.1	75.9	124
trichloroethene	5.0	4.73	94.5	77.9	122

Comments:
Concentration values are on column amount.

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

Reviewed By: _____

VO42.072303.1

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g235-83-2a
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 10:31 pm
Matrix: water
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	5	102.3	96.1	61.6	135	6.2	30
chlorobenzene	BQL	5	110.7	103.2	77.2	118	7.1	30
1,1-dichloroethene	BQL	5	106.6	97.6	64.4	130	8.8	30
toluene	BQL	5	105.0	97.2	66.4	128	7.6	30
trichloroethene	BQL	5	104.9	98.2	84.9	136	6.6	30

Comments:

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

Flags:

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

Reviewed By: _____

VO43.072303.1

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3070805B
Lab Project ID:
Report Basis: Dry Weight

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

Report Name Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Acetone	BQL	0.0500	1	7/8/2005
Benzene	BQL	0.00500	1	7/8/2005
Bromobenzene	BQL	0.00500	1	7/8/2005
Bromochloromethane	BQL	0.00500	1	7/8/2005
Bromodichloromethane	BQL	0.00500	1	7/8/2005
Bromoform	BQL	0.00500	1	7/8/2005
Bromomethane	BQL	0.00500	1	7/8/2005
2-Butanone	BQL	0.0250	1	7/8/2005
n-Butylbenzene	BQL	0.00500	1	7/8/2005
sec-Butylbenzene	BQL	0.00500	1	7/8/2005
tert-Butylbenzene	BQL	0.00500	1	7/8/2005
Carbon disulfide	BQL	0.00500	1	7/8/2005
Carbon tetrachloride	BQL	0.00500	1	7/8/2005
Chlorobenzene	BQL	0.00500	1	7/8/2005
Chloroethane	BQL	0.00500	1	7/8/2005
Chloroform	BQL	0.00500	1	7/8/2005
Chloromethane	BQL	0.00500	1	7/8/2005
2-Chlorotoluene	BQL	0.00500	1	7/8/2005
4-Chlorotoluene	BQL	0.00500	1	7/8/2005
Dibromochloromethane	BQL	0.00500	1	7/8/2005
1,2-Dibromo-3-chloropropane	BQL	0.00500	1	7/8/2005
Dibromomethane	BQL	0.00500	1	7/8/2005
1,2-Dibromoethane (EDB)	BQL	0.00500	1	7/8/2005
1,2-Dichlorobenzene	BQL	0.00500	1	7/8/2005
1,3-Dichlorobenzene	BQL	0.00500	1	7/8/2005
1,4-Dichlorobenzene	BQL	0.00500	1	7/8/2005
trans-1,4-Dichloro-2-butene	BQL	0.00500	1	7/8/2005
1,1-Dichloroethane	BQL	0.00500	1	7/8/2005
1,1-Dichloroethene	BQL	0.00500	1	7/8/2005
1,2-Dichloroethane	BQL	0.00500	1	7/8/2005
cis-1,2-Dichloroethene	BQL	0.00500	1	7/8/2005
trans-1,2-dichloroethene	BQL	0.00500	1	7/8/2005
1,2-Dichloropropane	BQL	0.00500	1	7/8/2005
1,3-Dichloropropane	BQL	0.00500	1	7/8/2005
2,2-Dichloropropane	BQL	0.00500	1	7/8/2005
1,1-Dichloropropene	BQL	0.00500	1	7/8/2005
cis-1,3-Dichloropropene	BQL	0.00500	1	7/8/2005
trans-1,3-Dichloropropene	BQL	0.00500	1	7/8/2005
Dichlorodifluoromethane	BQL	0.00500	1	7/8/2005
Diisopropyl ether (DIPE)	BQL	0.00500	1	7/8/2005
Ethylbenzene	BQL	0.00500	1	7/8/2005
Hexachlorobutadiene	BQL	0.00500	1	7/8/2005
2-Hexanone	BQL	0.00500	1	7/8/2005
Iodomethane	BQL	0.00500	1	7/8/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK3070805B
Lab Project ID:
Report Basis: Dry Weight

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

Report Name Compound	Result mg/kg	Quantitation Limit mg/kg	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00500	1	7/8/2005
4-Isopropyltoluene	BQL	0.00500	1	7/8/2005
Methylene chloride	BQL	0.0200	1	7/8/2005
4-Methyl-2-pentanone	BQL	0.00500	1	7/8/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00500	1	7/8/2005
Naphthalene	BQL	0.00500	1	7/8/2005
n-Propyl benzene	BQL	0.00500	1	7/8/2005
Styrene	BQL	0.00500	1	7/8/2005
1,1,1,2-Tetrachloroethane	BQL	0.00500	1	7/8/2005
1,1,2,2-Tetrachloroethane	BQL	0.00500	1	7/8/2005
Tetrachloroethene	BQL	0.00500	1	7/8/2005
Toluene	BQL	0.00500	1	7/8/2005
1,2,3-Trichlorobenzene	BQL	0.00500	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	0.00500	1	7/8/2005
Trichloroethene	BQL	0.00500	1	7/8/2005
1,1,1-Trichloroethane	BQL	0.00500	1	7/8/2005
1,1,2-Trichloroethane	BQL	0.00500	1	7/8/2005
Trichlorofluoromethane	BQL	0.00500	1	7/8/2005
1,2,3-Trichloropropane	BQL	0.00500	1	7/8/2005
1,2,4-Trimethylbenzene	BQL	0.00500	1	7/8/2005
1,3,5-Trimethylbenzene	BQL	0.00500	1	7/8/2005
Vinyl chloride	BQL	0.00500	1	7/8/2005
m-,p-Xylene	BQL	0.0100	1	7/8/2005
o-Xylene	BQL	0.00500	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.049	98
1,2-Dichloroethane-d4	0.05	0.0506	101
Toluene-d8	0.05	0.0484	97

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: G161-2047-15c
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 6:42 pm
Matrix: Soil
Analyzed By: RNP

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	0.5	100	102.6	103.2	74.8	133	0.6	30
chlorobenzene	BQL	100	86.4	88.0	66.3	135	1.9	30
1,1-dichloroethene	BQL	100	105.1	103.5	72.0	135	1.6	30
toluene	5.1	100	95.6	107.6	70.5	138	11.7	30
trichloroethene	BQL	100	97.6	97.9	60.7	152	0.4	30

Comments:

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

Flags:

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

Reviewed By: RNP

VO41.072303.1

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

Client Project ID: Batch QC
Lab Sample ID: LCS3070805b
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 9:20 am
Matrix: Soil
Analyzed By: RNP

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	100	98.0	102.2	77.6	122	4.3	30
chlorobenzene	100	94.9	99.1	75.3	125	4.3	30
1,1-dichloroethene	100	101.5	106.0	78.5	121	4.4	30
toluene	100	101.8	105.8	75.7	124	3.9	30
trichloroethene	100	98.3	101.7	60.8	139	3.4	30

Comments:

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

Flags:

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

Reviewed By: RNP

VO41.072303.1

PARADIGM ANALYTICAL LABORATORIES, INC.

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	MW-1-7	102	98	104		0
02	G161-2047-15A MSD	103	110	98.0		0
03	G161-2047-15B MS	102	102	102		0
04	G161-2047-15C	102	97	105		0
05	LCS3070805A	104	100	96.0		0
06	VBLK3070805B	97	98	101		0
07						
08						
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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.

N.C. Certification #481 S.C. Certification #99029

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) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	MW-1-2	102	102	81		0
02	G235-83-2A	102	107	87		0
03	G235-83-2B MS	102	110	80.0		0
04	G235-83-2C MSD	102	108	81.0		0
05	LCS4071205A	102	105	86.7		0
06	VBLK4071205A	102	105	88.0		0
07						
08						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(70-130)
SMC2 (BFB) = Bromofluorobenzene	(70-130)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-130)

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.: G161-2047-15C

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	173	173	100	172	172	0.232	30	6.81-355
acrolein	BQL	1000	82.3	8.23	1000	85.7	8.57	4.06	30	NA-6510
acrylonitrile	BQL	1000	146	14.6	1000	141	14.1	3.10	30	NA-5670
benzene	BQL	100	103	103	100	103	103	0.612	30	74.8-133
bromobenzene	BQL	100	86.3	86.3	100	85.6	85.6	0.896	30	66.1-140
bromochloromethane	BQL	100	122	122	100	119	119	2.07	30	85.1-136
bromodichloromethane	BQL	100	116	116	100	113	113	3.02	30	77.4-140
bromoform	BQL	100	134	134	100	124	124	7.41	30	74.7-161
bromomethane	BQL	100	94.5	94.5	100	101	101	6.34	30	30.4-127
2-butanone	BQL	100	164	164	100	160	160	2.44	30	40.9-256
n-butylbenzene	BQL	100	59.8	59.8	100	57.9	57.9	3.18	30	41.2-147
sec-butylbenzene	BQL	100	72.3	72.3	100	67.1	67.1	7.39	30	56.7-138
tert-butylbenzene	BQL	100	77.5	77.5	100	67.6	67.6	13.6	30	60.5-142
Carbon disulfide	BQL	100	99.2	99.2	100	101	101	2.03	30	64.3-145
carbon tetrachloride	BQL	100	106	106	100	102	102	4.16	30	64.2-142
chlorobenzene	BQL	100	86.4	86.4	100	88.0	88.0	1.87	30	66.3-135
chloroethane	BQL	100	39.2	39.2	100	39.0	39.0	0.460	30	20.7-182
2-chloroethyl vinyl ether	BQL	100	0.00	0.00	100	0.00	0.00	--	30	0.00-0.00
chloroform	BQL	100	113	113	100	111	111	1.86	30	71.1-143
chloromethane	BQL	100	112	112	100	106	106	5.26	30	69.1-138
2-chlorotoluene	BQL	100	78.1	78.1	100	76.2	76.2	2.52	30	59.8-144
4-chlorotoluene	BQL	100	73.0	73.0	100	74.2	74.2	1.67	30	59.0-141
dibromochloromethane	BQL	100	114	114	100	110	110	3.64	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	500	135	27.1 *	500	122	24.5 *	10.0	30	43.4-229
1,2-dibromomethane	BQL	100	119	119	100	115	115	3.25	30	78.3-148
dibromomethane	BQL	100	125	125	100	121	121	2.98	30	80.0-150
1,2-dichlorobenzene	BQL	100	80.3	80.3	100	77.2	77.2	3.92	30	57.5-148
1,3-dichlorobenzene	BQL	100	73.4	73.4	100	71.7	71.7	2.40	30	55.0-145
1,4-dichlorobenzene	BQL	100	72.0	72.0	100	70.5	70.5	2.08	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	500	115	22.9 *	500	112	22.3 *	2.55	30	48.9-211
dichlorodifluoromethane	BQL	100	109	109	100	106	106	3.33	30	81.6-130
1,1-dichloroethane	BQL	100	111	111	100	110	110	1.67	30	71.6-139
1,2-dichloroethane	BQL	100	122	122	100	118	118	2.98	30	72.9-146
1,1-dichloroethene	BQL	100	105	105	100	104	104	1.55	30	72.0-135
cis-1,2-dichloroethene	BQL	100	107	107	100	107	107	0.279	30	76.9-134
trans-1,2-dichloroethene	BQL	100	102	102	100	103	103	1.21	30	72.0-135
1,2-dichloropropane	BQL	100	112	112	100	110	110	1.65	30	76.1-136
1,3-dichloropropane	BQL	100	116	116	100	113	113	2.78	30	83.2-137
2,2-dichloropropane	BQL	100	101	101	100	100	100	1.31	30	58.0-150
1,1-dichloropropene	BQL	100	99.9	99.9	100	99.5	99.5	0.391	30	68.5-137
cis-1,3-dichloropropene	BQL	100	110	110	100	109	109	0.511	30	72.1-146

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: 4 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.: G161-2047-15C

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	113	113	100	111	111	1.89	30	72.5-152
Diisopropyl ether	BQL	100	109	109	100	109	109	0.212	30	59.9-147
ethylbenzene	BQL	100	85.4	85.4	100	90.2	90.2	5.47	30	68.5-135
hexachlorobutadiene	BQL	100	47.7	47.7	100	41.2	41.2	14.7	30	12.1-169
2-hexanone	BQL	100	129	129	100	123	123	4.85	30	39.9-238
Iodomethane	BQL	100	114	114	100	122	122	6.70	30	39.5-177
isopropylbenzene	BQL	100	80.9	80.9	100	79.9	79.9	1.36	30	63.7-135
4-isopropyltoluene	BQL	100	67.9	67.9	100	57.3	57.3	17.0	30	53.2-142
Methyl-tert-butyl ether	BQL	100	127	127	100	127	127	0.0079	30	73.3-155
methylene chloride	BQL	100	110	110	100	110	110	0.318	30	54.3-156
4-methyl-2-pentanone	BQL	100	133	133	100	131	131	1.73	30	47.2-227
naphthalene	5.37	100	100	100	100	152	152	41.2 *	30	14.4-218
n-propyl benzene	BQL	100	75.7	75.7	100	74.2	74.2	2.11	30	61.7-134
styrene	BQL	100	84.8	84.8	100	86.2	86.2	1.74	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	100	99.2	99.2	100	97.6	97.6	1.60	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	100	128	128	100	133	133	3.71	30	68.8-175
tetrachloroethene	BQL	100	85.5	85.5	100	82.8	82.8	3.22	30	61.6-137
toluene	5.07	100	95.6	95.6	100	108	108	11.7	30	70.5-138
1,2,3-trichlorobenzene	BQL	100	68.2	68.2	100	57.9	57.9	16.3	30	13.2-190
1,2,4-trichlorobenzene	BQL	100	62.0	62.0	100	53.3	53.3	15.2	30	9.93-187
1,1,1-trichloroethane	BQL	100	108	108	100	104	104	4.14	30	66.9-142
1,1,2-trichloroethane	BQL	100	118	118	100	119	119	1.01	30	84.9-139
trichloroethene	BQL	100	97.6	97.6	100	98.0	98.0	0.389	30	60.7-152
trichlorofluoromethane	BQL	100	106	106	100	106	106	0.0755	30	55.0-162
1,2,3-trichloropropane	BQL	100	132	132	100	124	124	6.45	30	55.1-197
1,2,4-trimethylbenzene	BQL	100	73.6	73.6	100	71.6	71.6	2.67	30	61.1-141
1,3,5-trimethylbenzene	BQL	100	76.6	76.6	100	70.5	70.5	8.23	30	61.8-138
Vinyl acetate	BQL	250	96.2	38.5	250	102	40.9	6.05	30	NA-NA
vinyl chloride	BQL	100	117	117	100	114	114	3.16	30	80.9-129
m/p-xylene	BQL	200	163	81.6	200	175	87.7	7.18	30	68.0-135
o-xylene	BQL	100	86.4	86.4	100	90.4	90.4	4.59	30	71.1-135

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: 4 out of 144 outside of limits

COMMENTS: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

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.: G235-83-2A

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	25.0	6.17	24.7	25.0	7.46	29.8	18.9	30	17.7-85.2
acrolein	BQL	125	100	80.3	125	71.1	56.8	34.2 *	30	NA-424
acrylonitrile	BQL	125	107	85.8	125	109	87.0	1.33	30	85.0-175
benzene	BQL	5.00	5.09	102	5.00	4.78	95.6	6.28	30	61.6-135
bromobenzene	BQL	5.00	5.59	112	5.00	5.09	102	9.36	30	65.1-125
bromochloromethane	BQL	5.00	4.99	99.8	5.00	4.81	96.2	3.67	30	75.5-126
bromodichloromethane	2.58	5.00	1.80	36.0 *	5.00	1.56	31.2 *	14.3	30	74.3-123
bromoform	BQL	5.00	4.77	95.4	5.00	4.70	94.0	1.48	30	52.3-122
bromomethane	BQL	5.00	6.39	128	5.00	6.13	123	4.15	30	10.0-284
2-butanone	BQL	25.0	15.0	60.0	25.0	15.0	60.0	0.133	30	36.1-107
n-butylbenzene	BQL	5.00	4.85	97.0	5.00	4.57	91.4	5.94	30	70.2-124
sec-butylbenzene	BQL	5.00	5.18	104	5.00	4.76	95.2	8.45	30	62.0-133
tert-butylbenzene	BQL	5.00	5.26	105	5.00	4.89	97.8	7.29	30	73.5-121
Carbon disulfide	BQL	5.00	5.18	104	5.00	4.81	96.2	7.41	30	68.8-129
carbon tetrachloride	BQL	5.00	5.12	102	5.00	4.71	94.2	8.34	30	71.8-122
chlorobenzene	BQL	5.00	5.54	111	5.00	5.16	103	7.10	30	77.2-118
chloroethane	BQL	5.00	5.54	111	5.00	5.23	105	5.76	30	10.0-233
2-chloroethyl vinyl ether	BQL	12.5	10.7	85.7	12.5	11.0	87.8	2.40	30	NA-283
chloroform	21.6	5.00	-16.8	-337 *	5.00	-17.1	-343 *	1.77	30	74.0-128
chloromethane	BQL	5.00	4.94	98.8	5.00	4.73	94.6	4.34	30	72.0-138
2-chlorotoluene	BQL	5.00	5.17	103	5.00	4.84	96.8	6.59	30	79.3-118
4-chlorotoluene	BQL	5.00	4.94	98.8	5.00	4.63	92.6	6.48	30	76.8-120
dibromochloromethane	BQL	5.00	4.65	93.0	5.00	4.26	85.2	8.75	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	25.0	16.3	65.1	25.0	18.2	72.9	11.2	30	20.2-171
1,2-dibromomethane	BQL	5.00	4.92	98.4	5.00	4.63	92.6	6.07	30	78.5-123
dibromomethane	BQL	5.00	4.51	90.2	5.00	4.11	82.2	9.28	30	71.3-137
1,2-dichlorobenzene	BQL	5.00	4.45	89.0	5.00	4.39	87.8	1.36	30	75.1-120
1,3-dichlorobenzene	BQL	5.00	4.72	94.4	5.00	4.47	89.4	5.44	30	73.1-121
1,4-dichlorobenzene	BQL	5.00	4.48	89.6	5.00	4.31	86.2	3.87	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	25.0	18.7	74.9	25.0	16.9	67.6	10.2	30	25.7-149
dichlorodifluoromethane	BQL	5.00	6.75	135	5.00	6.45	129	4.54	30	41.7-166
1,1-dichloroethane	BQL	5.00	4.90	98.0	5.00	4.51	90.2	8.29	30	75.6-128
1,2-dichloroethane	BQL	5.00	4.16	83.2	5.00	3.98	79.6	4.42	30	71.1-127
1,1-dichloroethene	BQL	5.00	5.33	107	5.00	4.88	97.6	8.81	30	64.4-130
cis-1,2-dichloroethene	BQL	5.00	5.17	103	5.00	4.61	92.2	11.4	30	72.7-134
trans-1,2-dichloroethene	BQL	5.00	5.35	107	5.00	5.00	100	6.76	30	74.6-124
1,2-dichloropropane	BQL	5.00	4.51	90.2	5.00	4.29	85.8	5.00	30	76.5-129
1,3-dichloropropane	BQL	5.00	4.63	92.6	5.00	4.25	85.0	8.56	30	79.1-121
2,2-dichloropropane	BQL	5.00	4.69	93.8	5.00	4.24	84.8	10.1	30	31.5-157
1,1-dichloropropene	BQL	5.00	5.16	103	5.00	4.73	94.6	8.70	30	72.5-120
cis-1,3-dichloropropene	BQL	5.00	4.38	87.6	5.00	4.07	81.4	7.34	30	66.6-132

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

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

N.C. Certification #481 S.C. Certification #99029

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.: G235-83-2A

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	5.00	3.72	74.4	5.00	3.51	70.2	5.81	30	44.7-144
Diisopropyl ether	BQL	5.00	4.26	85.2	5.00	3.93	78.6 *	8.06	30	79.4-122
ethylbenzene	BQL	5.00	4.67	93.4	5.00	4.13	82.6	12.3	30	73.8-126
hexachlorobutadiene	BQL	5.00	5.23	105	5.00	5.09	102	2.71	30	51.8-134
2-hexanone	BQL	25.0	13.3	53.4	25.0	12.9	51.8	3.04	30	41.6-111
Iodomethane	BQL	5.00	5.50	110	5.00	5.21	104	5.42	30	40.6-126
isopropylbenzene	BQL	5.00	5.34	107	5.00	4.94	98.8	7.78	30	74.3-123
4-isopropyltoluene	BQL	5.00	5.13	103	5.00	4.79	95.8	6.85	30	74.6-122
Methyl-tert-butyl ether	BQL	5.00	4.09	81.8	5.00	3.79	75.8	7.61	30	66.5-136
methylene chloride	BQL	5.00	5.05	101	5.00	4.48	89.6	12.0	30	48.6-155
4-methyl-2-pentanone	BQL	25.0	18.5	73.9	25.0	16.8	67.4	9.17	30	6.88-166
naphthalene	BQL	5.00	13.0	261 *	5.00	6.73	135	63.8 *	30	55.1-140
n-propyl benzene	BQL	5.00	5.28	106	5.00	4.76	95.2	10.4	30	71.6-128
styrene	BQL	5.00	4.87	97.4	5.00	4.45	89.0	9.01	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	5.00	5.49	110	5.00	5.16	103	6.20	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	5.00	5.05	101	5.00	4.79	95.8	5.28	30	75.7-136
tetrachloroethene	BQL	5.00	6.50	130	5.00	6.00	120	8.00	30	45.8-153
toluene	BQL	5.00	5.23	105	5.00	4.84	96.8	7.74	30	66.4-128
1,2,3-trichlorobenzene	BQL	5.00	3.09	61.8	5.00	4.49	89.8	36.9 *	30	61.0-126
1,2,4-trichlorobenzene	BQL	5.00	3.70	74.0	5.00	4.50	90.0	19.5	30	60.6-125
1,1,1-trichloroethane	BQL	5.00	5.08	102	5.00	4.79	95.8	5.88	30	78.4-121
1,1,2-trichloroethane	BQL	5.00	4.92	98.4	5.00	4.49	89.8	9.14	30	64.8-128
trichloroethene	BQL	5.00	5.24	105	5.00	4.91	98.2	6.50	30	84.9-136
trichlorofluoromethane	BQL	5.00	5.61	112	5.00	5.40	108	3.81	30	76.8-132
1,2,3-trichloropropane	BQL	5.00	4.56	91.2	5.00	4.22	84.4	7.74	30	10.0-218
1,2,4-trimethylbenzene	BQL	5.00	6.12	122	5.00	4.85	97.0	23.2	30	31.0-172
1,3,5-trimethylbenzene	BQL	5.00	5.23	105	5.00	4.77	95.4	9.20	30	67.7-132
Vinyl acetate	BQL	12.5	9.69	77.5	12.5	8.99	71.9	7.49	30	NA-355
vinyl chloride	BQL	5.00	5.73	114	5.00	5.49	110	4.28	30	68.1-137
m/p-xylene	BQL	10.0	10.2	102	10.0	9.02	90.2	12.4	30	79.8-118
o-xylene	BQL	5.00	5.16	103	5.00	4.79	95.8	7.44	30	80.0-121

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

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3070805B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab File ID: 0708307.D Lab Sample ID: VBLK3070805B

Date Analyzed: 07/08/05 Time Analyzed: 10:54

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	NS4-15	G161-2047-15C	0708315.D	07/08 15:01
02	MW-1-7	G161-2055-2A	0708320.D	07/08 17:40
03	G161-2047-15B MS	G161-2047-15B MS	0708322.D	07/08 18:42
04	G161-2047-15A MSD	G161-2047-15A MSD	0708323.D	07/08 19:13
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COMMENTS:

N.C. Certification #481 S.C. Certification #99029

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4071205B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab File ID: 0712406.D Lab Sample ID: VBLK4071205B

Date Analyzed: 07/12/05 Time Analyzed: 14:01

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

Instrument ID: MSD4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CT OUTLET #1	G235-83-2A	0712410.D	07/12 16:08
02	MW-1-2	G161-2055-1D	0712418.D	07/12 20:24
03	G235-83-2B MS	G235-83-2B MS	0712422.D	07/12 22:31
04	G235-83-2C MSD	G235-83-2C MSD	0712423.D	07/12 23:03
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COMMENTS:

PARADIGM ANALYTICAL LABORATORIES, INC.

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: 0624316.D BFB Injection Date: 06/24/05

Instrument ID: MSD3 BFB Injection Time: 16:12

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

m/e	ION ABUNDANCE CRIIERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	15.7	Y
75	30.0 - 60.0% of mass 95	43.3	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.1	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	70.5	Y
175	5.0 - 9.0% of mass 174	7.8	Y
176	95.0 - 101.0% of mass 174	100.5	Y
177	5.0 - 9.0% of mass 176	7.2	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	VSTD200	VSTD200	0624317.D	06/24/05	17:03
02	VSTD100	VSTD100	0624318.D	06/24/05	17:35
03	VSTD50	VSTD50	0624319.D	06/24/05	18:07
04	VSTD20	VSTD20	0624320.D	06/24/05	18:39
05	VSTD10	VSTD10	0624321.D	06/24/05	19:10
06	VSTD5	VSTD5	0624322.D	06/24/05	19:41
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N.C. Certification #481 S.C. Certification #99029

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: 0708301 D BFB Injection Date: 07/08/05

Instrument ID: MSD3 BFB Injection Time: 07:46

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	17.8	Y
75	30.0 - 60.0% of mass 95	44.2	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	65.6	Y
175	5.0 - 9.0% of mass 174	5.9	Y
176	95.0 - 101.0% of mass 174	97.5	Y
177	5.0 - 9.0% of mass 176	7.2	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	QCCHK100	QCCHK100	0708303.D	07/08/05	08:49
02	LCS3070805B	LCS3070805B	0708305.D	07/08/05	09:51
03	VBLK3070805B	VBLK3070805B	0708307.D	07/08/05	10:54
04	NS4-15	G161-2047-15C	0708315.D	07/08/05	15:01
05	MW-1-7	G161-2055-2A	0708320.D	07/08/05	17:40
06	G161-2047-15B MS	G161-2047-15B MS	0708322.D	07/08/05	18:42
07	G161-2047-15A MSD	G161-2047-15A MSD	0708323.D	07/08/05	19:13
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PARADIGM ANALYTICAL LABORATORIES, INC.

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: 0616401 D BFB Injection Date: 06/16/05

Instrument ID: MSD4 BFB Injection Time: 06:53

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	22.6	Y
75	30.0 - 60.0% of mass 95	50.0	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.1	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	66.7	Y
175	5.0 - 9.0% of mass 174	7.2	Y
176	95.0 - 101.0% of mass 174	100.5	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	VSTD5	VSTD5	0616402.D	06/16/05	07:53
02	VSTD10	VSTD10	0616403.D	06/16/05	08:25
03	VSTD20	VSTD20	0616404.D	06/16/05	08:56
04	VSTD50	VSTD50	0616405.D	06/16/05	09:29
05	VSTD100	VSTD100	0616406.D	06/16/05	10:01
06	VSTD200	VSTD200	0616407.D	06/16/05	10:33
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N.C. Certification #481 S.C. Certification #99029

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: 0712401.D BFB Injection Date: 07/12/05

Instrument ID: MSD4 BFB Injection Time: 11:22

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	20.2	Y
75	30.0 - 60.0% of mass 95	44.9	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	7.1	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	70.1	Y
175	5.0 - 9.0% of mass 174	7.9	Y
176	95.0 - 101.0% of mass 174	97.6	Y
177	5.0 - 9.0% of mass 176	7.0	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	QCCHK005	QCCHK005	0712402.D	07/12/05	11:54
02	LCS4071205A	LCS4071205A	0712403.D	07/12/05	12:25
03	VBLK4071205B	VBLK4071205B	0712406.D	07/12/05	14:01
04	CT OUTLET #1	G235-83-2A	0712410.D	07/12/05	16:08
05	MW-1-2	G161-2055-1D	0712418.D	07/12/05	20:24
06	G235-83-2B MS	G235-83-2B MS	0712422.D	07/12/05	22:31
07	G235-83-2C MSD	G235-83-2C MSD	0712423.D	07/12/05	23:03
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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): 06/24/05

Heated Purge: (Y/N) Y Calibration Times: 17:03

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

LAB FILE ID: RRF5.0 = 0624322.D RRF10.0 = 0624321.D

RRF20.0 = 0624320.D RRF50.0 = 0624319.D RRF100.0 = 0624318.D RRF200.0 = 0624317.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	RRF 200.0	ICAL RRF	% RSD
dichlorodifluoromethane	1.51	1.89	1.64	1.34		1.49	1.57	13.1
chloromethane	1.02	1.31	1.21	0.997		1.15	1.14	11.6
vinyl chloride	1.24	1.52	1.42	1.14		1.30	1.32	11.4
bromomethane	0.738	0.637	0.528	0.389		0.280	0.514	35.8
chloroethane	0.566	0.700	0.611	0.506		0.572	0.591	12.1
trichlorofluoromethane	1.32	1.64	1.40	1.16		1.32	1.37	12.8
acrolein	0.026	0.026	0.023	0.022		0.03	0.026	11.4
1,1-dichloroethene	0.926	0.827	0.756	0.681		0.708	0.779	12.7
acetone	0.533	0.413	0.352	0.292		0.321	0.382	25.0
methylene chloride	0.639	0.594	0.509	0.506		0.533	0.556	10.4
trans-1,2-dichloroethene	1.01	0.965	0.890	0.830		0.819	0.904	9.37
acrylonitrile	0.06	0.067	0.06	0.064		0.085	0.067	15.6
1,1-dichloroethane	1.49	1.43	1.30	1.28		1.39	1.38	6.44
2,2-dichloropropane	1.54	1.38	1.30	1.20		1.28	1.34	9.51
cis-1,2-dichloroethene	0.719	0.719	0.657	0.643		0.704	0.689	5.22
2-butanone	0.368	0.303	0.274	0.363		0.422	0.346	16.8
bromochloromethane	0.175	0.168	0.134	0.174		0.186	0.167	11.7
chloroform	1.13	1.09	0.996	1.02		1.13	1.07	5.80
1,1,1-trichloroethane	1.65	1.43	1.28	1.20		1.24	1.36	13.6
carbon tetrachloride	1.54	1.36	1.19	1.09		1.12	1.26	15.1
1,1-dichloropropene	1.60	1.48	1.33	1.18		1.22	1.36	13.0
1,2-dichloroethane-d4	0.143	0.144	0.143	0.156	0.168	0.177	0.155	9.39
benzene	3.24	3.20	2.85	2.71		2.96	2.99	7.60
1,2-dichloroethane	0.390	0.393	0.401	0.429		0.506	0.424	11.4
trichloroethene	0.985	0.948	0.826	0.771		0.804	0.867	10.8
1,2-dichloropropane	0.568	0.567	0.494	0.527		0.593	0.550	7.12
dibromomethane	0.138	0.138	0.136	0.152		0.183	0.149	13.5
bromodichloromethane	0.502	0.526	0.495	0.508		0.589	0.524	7.22
2-chloroethyl vinyl ether	0.088	0.04	0.037	0.056		0.188	0.082	76.9
cis-1,3-dichloropropene	0.592	0.593	0.541	0.583		0.682	0.598	8.56
4-methyl-2-pentanone	0.390	0.362	0.359	0.438		0.583	0.426	21.9
toluene-d8	0.648	0.662	0.665	0.646	0.681	0.696	0.666	2.92
toluene	2.03	1.89	1.66	1.63		1.75	1.79	9.28
Iodomethane	0.631	0.689	0.670	0.685		0.801	0.695	9.14
trans-1,3-dichloropropene	0.355	0.391	0.336	0.391		0.467	0.388	12.9
Vinyl acetate	0.029	0.031	0.035	0.043		0.055	0.038	27.4
Carbon disulfide	2.84	2.60	2.41	2.16		2.35	2.47	10.3
1,1,2-trichloroethane	1.65	2.41	1.79	2.16		2.45	2.09	17.1
tetrachloroethene	1.16	1.14	0.957	0.838		0.778	0.976	17.9
1,3-dichloropropane	4.47	5.22	4.19	4.71		5.20	4.76	9.51

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): 06/24/05

Heated Purge: (Y/N) Y Calibration Times: 17:03

GC Column: DB-624 ID: 0 2 (mm)

LAB FILE ID: RRF5.0 = 0624322.D RRF10.0 = 0624321.D

RRF20.0 = 0624320.D RRF50.0 = 0624319.D RRF100.0 = 0624318.D RRF200.0 = 0624317.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	4.19	3.52	3.47	4.03		5.25	4.09	17.6
dibromochloromethane	2.56	2.74	2.67	2.72		3.00	2.74	5.91
1,2-dibromoethane	2.13	2.14	2.06	2.25		2.45	2.20	6.87
chlorobenzene	1.89	2.05	1.72	1.62		1.57	1.77	11.4
1,1,1,2-tetrachloroethane	4.13	4.73	4.25	4.31		4.08	4.30	5.97
bromoform	0.841	0.833	1.07	1.12		1.36	1.05	21.1
4-bromofluorobenzene	2.09	2.51	2.32	2.22		2.28	2.28	6.84
bromobenzene	4.30	4.65	3.88	3.72		3.83	4.07	9.58
1,1,2,2-tetrachloroethane	1.86	1.84	1.66	2.06		2.32	1.95	12.9
1,2,3-trichloropropane	0.679	0.939	0.541	0.360		0.202	0.544	52.4
ethylbenzene	6.64	6.30	5.56	5.16		5.32	5.79	11.1
m/p-xylene	2.38	2.21	1.90	1.82		1.85	2.03	12.2
styrene	2.15	2.07	1.96	1.92		2.05	2.03	4.41
o-xylene	1.86	1.73	1.55	1.47		1.57	1.64	9.45
isopropylbenzene	6.32	6.04	5.13	4.62		4.85	5.39	13.9
n-propyl benzene	6.86	6.79	5.69	5.07		5.42	5.97	13.6
2-chlorotoluene	0.957	0.961	0.793	0.703		0.758	0.835	14.2
4-chlorotoluene	0.778	0.841	0.681	0.663		0.683	0.729	10.6
1,3,5-trimethylbenzene	3.60	3.64	3.03	2.88		3.09	3.25	10.8
tert-butylbenzene	4.02	3.88	3.18	2.79		2.91	3.36	16.8
1,2,4-trimethylbenzene	3.02	3.09	2.54	2.40		2.66	2.74	10.9
sec-butylbenzene	6.25	6.06	4.93	4.36		4.57	5.24	16.5
1,3-dichlorobenzene	1.18	1.24	1.02	0.951		0.922	1.06	13.0
4-isopropyltoluene	3.78	3.88	3.18	2.82		3.05	3.34	13.9
1,4-dichlorobenzene	1.02	1.08	1.02	0.858		0.937	0.985	8.95
1,2-dichlorobenzene	0.765	0.816	0.708	0.652		0.729	0.734	8.36
n-butylbenzene	3.36	3.62	2.81	2.51		2.74	3.01	15.4
1,2-dibromo-3-chloropropane	0.016	0.026	0.026	0.03		0.042	0.028	33.3
1,2,4-trichlorobenzene	0.164	0.334	0.250	0.231		0.286	0.253	25.0
hexachlorobutadiene	0.267	0.221	0.222	0.183		0.202	0.219	14.3
naphthalene	0.169	0.209	0.206	0.191		0.296	0.214	22.6
trans-1,4-Dichloro-2-butene	0.021	0.027	0.026	0.035		0.048	0.031	33.1
1,2,3-trichlorobenzene	0.143	0.226	0.152	0.165		0.205	0.178	20.0
MTBE	1.12	1.04	1.09	1.25		1.57	1.21	17.6
DIPE	3.73	3.51	3.37	3.63		4.08	3.66	7.31

PARADIGM ANALYTICAL LABORATORIES, INC.

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: MSD4 Calibration Date(s): 06/16/05

Heated Purge: (Y/N) Y Calibration Times: 10:33

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

LAB FILE ID: RRF5.0 = 0616402.D RRF10.0 = 0616403.D

RRF20.0 = 0616404.D RRF50.0 = 0616405.D RRF100.0 = 0616406.D RRF200.0 = 0616407.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	RRF 200.0	ICAL RRF	% RSD
dichlorodifluoromethane	0.665	0.540	0.578	0.696	0.692	0.688	0.643	10.4
chloromethane	0.614	0.509	0.542	0.644	0.632	0.641	0.597	9.62
vinyl chloride	0.586	0.468	0.510	0.616	0.618	0.607	0.568	11.1
bromomethane	0.276	0.234	0.215		0.166	0.168	0.212	22.1
chloroethane	0.334	0.256	0.271	0.319	0.304		0.297	11.0
trichlorofluoromethane	0.677	0.567	0.600	0.718	0.710	0.690	0.660	9.43
acrolein	0.016	0.014	0.014	0.016	0.018	0.02	0.016	13.6
1,1-dichloroethene	0.465	0.403	0.399	0.395	0.391	0.375	0.405	7.70
acetone	0.316	0.179	0.139	0.105	0.115	0.119	0.162	49.2
methylene chloride	0.469	0.364	0.336	0.310	0.315	0.309	0.350	17.6
trans-1,2-dichloroethene	0.536	0.451	0.444	0.442	0.443	0.437	0.459	8.31
acrylonitrile	0.061	0.05	0.053	0.054	0.06	0.061	0.056	8.74
1,1-dichloroethane	0.978	0.856	0.833	0.813	0.824	0.813	0.853	7.42
2,2-dichloropropane	0.809	0.725	0.694	0.699	0.699	0.677	0.717	6.63
cis-1,2-dichloroethene	0.483	0.410	0.404	0.390	0.398	0.397	0.414	8.34
2-butanone	0.318	0.253	0.233	0.214	0.220	0.230	0.245	15.6
bromochloromethane	0.159	0.137	0.137	0.124	0.129	0.127	0.136	9.39
chloroform	0.810	0.729	0.709	0.690	0.696	0.688	0.720	6.48
1,1,1-trichloroethane	0.773	0.707	0.685	0.689	0.692	0.679	0.704	4.95
carbon tetrachloride	0.681	0.631	0.601	0.611	0.617	0.601	0.624	4.87
1,1-dichloropropene	0.764	0.706	0.688	0.700	0.709	0.694	0.710	3.86
1,2-dichloroethane-d4	0.243	0.232	0.236	0.223	0.227	0.221	0.230	3.56
benzene	1.92	1.81	1.76	1.72	1.77	1.80	1.80	3.81
1,2-dichloroethane	0.472	0.414	0.409	0.372	0.384	0.381	0.405	8.99
trichloroethene	0.508	0.468	0.454	0.450	0.457	0.459	0.466	4.66
1,2-dichloropropane	0.457	0.397	0.397	0.373	0.383	0.384	0.398	7.51
dibromomethane	0.167	0.149	0.147	0.136	0.142	0.139	0.147	7.48
bromodichloromethane	0.477	0.457	0.437	0.404	0.413	0.413	0.433	6.66
2-chloroethyl vinyl ether	0.199	0.125	0.123	0.128		0.188	0.153	24.4
cis-1,3-dichloropropene	0.559	0.522	0.497	0.478	0.494	0.498	0.508	5.64
4-methyl-2-pentanone	0.659	0.542	0.541	0.450	0.490	0.508	0.532	13.4
toluene-d8	0.715	0.718	0.722	0.721	0.729	0.719	0.721	0.668
toluene	1.16	1.08	1.03	1.03	1.05	1.07	1.07	4.57
Iodomethane	0.711	0.596	0.603	0.607	0.606	0.625	0.625	6.98
trans-1,3-dichloropropene	0.419	0.419	0.383	0.353	0.371	0.378	0.387	6.90
Vinyl acetate	1.02	0.886	0.873	0.786	0.819	0.851	0.873	9.28
Carbon disulfide	1.72	1.46	1.43	1.44	1.44	1.51	1.50	7.31
1,1,2-trichloroethane	1.90	1.75	1.67	1.51	1.55	1.64	1.67	8.56
tetrachloroethene	4.58	4.22	4.05	4.12	4.13	4.33	4.24	4.59
1,3-dichloropropane	4.26	4.00	3.85	3.44	3.59	3.73	3.81	7.70

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: MSD4 Calibration Date(s): 06/16/05

Heated Purge: (Y/N) Y Calibration Times: 10:33

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

LAB FILE ID: RRF5.0 = 0616402.D RRF10.0 = 0616403.D

RRF20.0 = 0616404.D RRF50.0 = 0616405.D RRF100.0 = 0616406.D RRF200.0 = 0616407.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	4.48	3.51	3.38	2.79	3.13	3.36	3.44	16.5
dibromochloromethane	2.69	2.62	2.41	2.25	2.33	2.46	2.46	6.96
1,2-dibromoethane	1.97	1.85	1.84	1.62	1.71	1.79	1.80	6.68
chlorobenzene	1.04	0.999	0.923	0.900	0.915	0.938	0.953	5.91
1,1,1,2-tetrachloroethane	3.29	3.30	2.99	2.90	2.90	3.02	3.07	6.03
bromoform	1.37	1.28	1.25	1.10	1.16	1.22	1.23	7.57
4-bromofluorobenzene	3.02	3.06	3.00	3.00	3.09	3.18	3.06	2.28
bromobenzene	3.54	3.30	3.06	2.94	3.01	3.22	3.18	6.94
1,1,2,2-tetrachloroethane	2.23	2.16	2.11	1.89	1.93	2.01	2.05	6.45
1,2,3-trichloropropane	4.79	4.33	4.23	3.58	4.03	4.32	4.21	9.44
ethylbenzene	3.43	3.12	3.02	3.10	3.20	2.92	3.13	5.49
m/p-xylene	1.21	1.11	1.05	1.05	1.09	1.12	1.11	5.36
styrene	1.58	1.50	1.38	1.37	1.43	1.47	1.45	5.56
o-xylene	1.02	0.979	0.905	0.919	0.948	0.960	0.956	4.44
isopropylbenzene	4.54	2.98	2.72	2.87	2.97	2.82	3.15	21.8
n-propyl benzene	2.20	3.88	3.47	3.67	3.81	3.21	3.37	18.4
2-chlorotoluene	0.610	0.607	0.541	0.558	0.564	0.573	0.575	4.82
4-chlorotoluene	2.32	2.27	2.04	2.06	2.11	2.20	2.17	5.40
1,3,5-trimethylbenzene	2.32	2.32	2.05	2.17	2.22	2.28	2.23	4.60
tert-butylbenzene	3.64	2.10	1.86	1.96	2.05	2.12	2.29	29.2
1,2,4-trimethylbenzene	2.32	2.32	2.05	2.17	2.22	2.28	2.23	4.60
sec-butylbenzene	3.38	3.40	3.00	3.23	3.36	2.97	3.22	6.03
1,3-dichlorobenzene	1.14	1.06	0.941	0.933	0.956	0.996	1.00	8.02
4-isopropyltoluene	2.70	2.66	2.33	2.50	2.60	2.58	2.56	5.26
1,4-dichlorobenzene	1.62	1.03	0.906	0.899	0.926	0.955	1.06	26.6
1,2-dichlorobenzene	0.883	0.836	0.742	0.729	0.762	0.779	0.789	7.55
n-butylbenzene	2.70	2.73	2.38	2.58	2.64	2.60	2.60	4.87
1,2-dibromo-3-chloropropane	0.063	0.056	0.055	0.048	0.051	0.054	0.055	9.04
1,2,4-trichlorobenzene	0.496	0.470	0.399	0.417	0.420	0.428	0.438	8.39
hexachlorobutadiene	0.366	0.369	0.302	0.338	0.336	0.332	0.341	7.24
naphthalene	0.779	0.598	0.552	0.535	0.567	0.583	0.602	14.8
trans-1,4-Dichloro-2-butene	0.053	0.047	0.047	0.042	0.045	0.048	0.047	7.88
1,2,3-trichlorobenzene	0.409	0.350	0.306	0.314	0.317	0.319	0.336	11.6
MTBE	1.29	1.06	1.07	0.938	0.998	1.06	1.07	11.0
DIPE	2.85	2.55	2.49	2.36	2.44	2.60	2.55	6.70

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: 07/08/05 Time: 8:49
Lab File ID: 0708303 D Init. Calib. Date: 06/24/05
EPA Sample No.: QCCHK100 Init. Calib. Time: 17:03
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	1.72	1.638		5.0	
1,1,1-trichloroethane	0.445	0.423		4.9	
1,1,2,2-tetrachloroethane	2.52	2.642	0.30	-4.9	
1,1,2-trichloroethane	1.56	1.522		2.2	
1,1-dichloroethane	0.568	0.557	0.10	1.9	
1,1-dichloroethene	0.241	0.238		1.2	20.0
1,1-dichloropropene	0.443	0.430		2.9	
1,2,3-trichlorobenzene	0.409	0.397		2.9	
1,2,3-trichloropropane	5.32	6.254		-17.6	
1,2,4-trichlorobenzene	0.446	0.439		1.6	
1,2,4-trimethylbenzene	1.52	1.498		1.1	
1,2-dibromo-3-chloropropane	0.487	0.499		-2.5	
1,2-dibromoethane	1.86	1.830		1.9	
1,2-dichlorobenzene	0.631	0.615		2.5	
1,2-dichloroethane	0.367	0.349		4.9	
1,2-dichloropropane	0.325	0.317		2.5	20.0
1,3,5-trimethylbenzene	1.53	1.505		1.4	
1,3-dichlorobenzene	0.710	0.685		3.5	
1,3-dichloropropane	3.33	3.276		1.7	
1,4-dichlorobenzene	0.718	0.697		2.9	
2,2-dichloropropane	0.453	0.418		7.7	
2-butanone	0.424	0.439		-3.5	
2-chloroethyl vinyl ether	0.00	0.000*		0.0	
2-chlorotoluene	0.373	0.362		2.9	
2-hexanone	5.53	5.519		0.2	
4-chlorotoluene	0.387	0.375		3.1	
4-isopropyltoluene	1.65	1.632		0.9	
4-methyl-2-pentanone	0.968	0.970		-0.2	
acetone	0.230	0.181		21.3	
acrolein	0.305	0.327		-7.2	
acrylonitrile	1.22	1.237		-1.6	
benzene	1.32	1.289		2.3	
bromobenzene	2.17	2.091		3.7	
bromochloromethane	0.114	0.115		-0.9	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.343	0.338		1.5	
bromoform	1.14	1.179	0.10	-2.9	
bromomethane	0.09	0.077		14.4	
Carbon disulfide	0.897	0.879		2.0	
carbon tetrachloride	0.389	0.373		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: 07/08/05 Time: 8:49
Lab File ID: 0708303.D Init. Calib. Date: 06/24/05
EPA Sample No.: QCCHK100 Init. Calib. Time: 17:03
Heated Purge: (Y/N) Y
GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	6.542	6.256	0.30	4.4	
chloroethane	0.162	0.000*		100.0	
chloroform	0.497	0.497		0.0	20.0
chloromethane	0.323	0.293	0.10	9.3	
cis-1,2-dichloroethene	0.316	0.315		0.3	
cis-1,3-dichloropropene	0.429	0.433		-0.9	
dibromochloromethane	1.720	1.652		4.0	
dibromomethane	0.151	0.153		-1.3	
dichlorodifluoromethane	0.221	0.202		8.6	
DIPE	1.776	1.647		7.3	
ethylbenzene	2.007	1.990		0.8	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.185	0.185		0.0	
Iodomethane	0.209	0.238		-13.9	
isopropylbenzene	1.886	1.832		2.9	
m/p-xylene	0.740	0.722		2.4	
methylene chloride	0.297	0.289		2.7	
MTBE	1.065	1.043		2.1	
n-butylbenzene	1.725	1.710		0.9	
n-propyl benzene	2.355	2.370		-0.6	
naphthalene	1.218	1.156		5.1	
o-xylene	0.683	0.656		4.0	
sec-butylbenzene	2.110	2.086		1.1	
styrene	1.035	1.013		2.1	
tert-butylbenzene	1.266	1.250		1.3	
tetrachloroethene	2.260	2.194		2.9	
toluene	0.796	0.800		-0.5	20.0
trans-1,2-dichloroethene	0.314	0.313		0.3	
trans-1,3-dichloropropene	0.368	0.375		-1.9	
trans-1,4-Dichloro-2-butene	0.373	0.388		-4.0	
trichloroethene	0.324	0.314		3.1	
trichlorofluoromethane	0.347	0.285		17.9	
Vinyl acetate	0.131	0.140		-6.9	
vinyl chloride	0.333	0.328		1.5	20.0
1,2-dichloroethane-d4	0.313	0.297		5.1	
4-bromofluorobenzene	2.94	2.984		-1.3	
toluene-d8	0.721	0.747		-3.6	

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: MSD4 Calibration Date: 07/12/05 Time: 11:54
Lab File ID: 0712402 D Init. Calib. Date: 06/16/05
EPA Sample No.: QCCHK005 Init. Calib. Time: 10:33
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	1.33	1.407		-5.9	
1,1,1-trichloroethane	0.266	0.262		1.5	
1,1,2,2-tetrachloroethane	0.780	0.677	0.30	13.2	
1,1,2-trichloroethane	0.678	0.645		4.9	
1,1-dichloroethane	0.373	0.359	0.10	3.8	
1,1-dichloroethene	0.156	0.163		-4.5	20.0
1,1-dichloropropene	0.262	0.255		2.7	
1,2,3-trichlorobenzene	0.100	0.074		26.0	
1,2,3-trichloropropane	1.86	1.494		19.9	
1,2,4-trichlorobenzene	0.143	0.121		15.4	
1,2,4-trimethylbenzene	0.826	0.822		0.5	
1,2-dibromo-3-chloropropane	0.018	0.012		33.3	
1,2-dibromoethane	0.732	0.733		-0.1	
1,2-dichlorobenzene	0.303	0.284		6.3	
1,2-dichloroethane	0.161	0.139		13.7	
1,2-dichloropropane	0.175	0.161		8.0	20.0
1,3,5-trimethylbenzene	0.850	0.865		-1.8	
1,3-dichlorobenzene	0.396	0.392		1.0	
1,3-dichloropropane	1.60	1.477		7.9	
1,4-dichlorobenzene	0.388	0.376		3.1	
2,2-dichloropropane	0.264	0.262		0.8	
2-butanone	0.047	0.030		36.2	
2-chloroethyl vinyl ether	0.149	0.107		28.2	
2-chlorotoluene	0.225	0.228		-1.3	
2-hexanone	0.827	0.461		44.3	
4-chlorotoluene	0.228	0.231		-1.3	
4-isopropyltoluene	0.857	0.896		-4.6	
4-methyl-2-pentanone	0.093	0.061		34.4	
acetone	0.044	0.021		52.3	
acrolein	0.008	0.004*		50.0	
acrylonitrile	0.027	0.019		29.6	
benzene	0.751	0.751		0.0	
bromobenzene	1.28	1.314		-2.6	
bromochloromethane	0.058	0.059		-1.7	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.180	0.159		11.7	
bromoform	0.462	0.429	0.10	7.1	
bromomethane	0.130	0.119		8.5	
Carbon disulfide	0.693	0.703		-1.4	
carbon tetrachloride	0.226	0.229		-1.3	

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: MSD4 Calibration Date: 07/12/05 Time: 11:54

Lab File ID: 0712402.D Init. Calib. Date: 06/16/05

EPA Sample No.: QCCHK005 Init. Calib. Time: 10:33

Heated Purge: (Y/N) N

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	4.301	4.572	0.30	-6.3	
chloroethane	0.142	0.126		11.3	
chloroform	0.306	0.292		4.6	20.0
chloromethane	0.260	0.220	0.10	15.4	
cis-1,2-dichloroethene	0.186	0.188		-1.1	
cis-1,3-dichloropropene	0.212	0.186		12.3	
dibromochloromethane	1.009	0.959		5.0	
dibromomethane	0.057	0.054		5.3	
dichlorodifluoromethane	0.215	0.236		-9.8	
DIPE	1.178	1.001		15.0	
ethylbenzene	1.227	1.248		-1.7	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.076	0.086		-13.2	
Iodomethane	0.312	0.329		-5.4	
isopropylbenzene	1.057	1.079		-2.1	
m/p-xylene	0.423	0.439		-3.8	
methylene chloride	0.159	0.158		0.6	
MTBE	0.458	0.375		18.1	
n-butylbenzene	0.809	0.831		-2.7	
n-propyl benzene	1.322	1.337		-1.1	
naphthalene	0.198	0.117		40.9	
o-xylene	0.383	0.388		-1.3	
sec-butylbenzene	1.065	1.109		-4.1	
styrene	0.569	0.555		2.5	
tert-butylbenzene	0.697	0.720		-3.3	
tetrachloroethene	1.635	1.963		-20.1	
toluene	0.446	0.444		0.4	20.0
trans-1,2-dichloroethene	0.191	0.197		-3.1	
trans-1,3-dichloropropene	0.157	0.133		15.3	
trans-1,4-Dichloro-2-butene	0.018	0.014		22.2	
trichloroethene	0.182	0.182		0.0	
trichlorofluoromethane	0.250	0.226		9.6	
Vinyl acetate	0.413	0.322		22.0	
vinyl chloride	0.250	0.222		11.2	20.0
1,2-dichloroethane-d4	0.207	0.179		13.5	
4-bromofluorobenzene	2.90	2.909		-0.4	
toluene-d8	0.704	0.692		1.7	

PARADIGM ANALYTICAL LABORATORIES, INC.

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.: QCCHK005 Date Analyzed: 07/12/05

Lab File ID (Standard): 0712402 D Time Analyzed: 11:54

Instrument ID: MSD4 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	162396	11.87	1807754	8.63	1157382	13.69
	UPPER LIMIT	324792	12.37	3615508	9.13	2314764	14.19
	LOWER LIMIT	81198	11.37	903877	8.13	578691	13.19
	EPA SAMPLE						
01	MW-1-2	155320	11.87	1689649	8.63	1093372	13.69
02	VBLK4071205B	159246	11.87	1723107	8.63	1149387	13.7
03	LCS4071205A	163873	11.86	1770560	8.63	1151636	13.69
04	G235-83-2A	153674	11.87	1660997	8.63	1110519	13.7
05	G235-83-2B MS	139503	11.87	1609492	8.63	1058754	13.7
06	G235-83-2C MSD	143050	11.87	1623160	8.63	1075723	13.7
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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

N.C. Certification #481 S.C. Certification #99029

PARADIGM ANALYTICAL LABORATORIES, INC.

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.: QCCHK100 Date Analyzed: 07/08/05

Lab File ID (Standard): 0708303.D Time Analyzed: 08:49

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	336989	11.73	2592770	8.5	1995860	13.54
	UPPER LIMIT	673978	12.23	5185540	9	3991720	14.04
	LOWER LIMIT	168495	11.23	1296385	8	997930	13.04
	EPA SAMPLE						
01	MW-1-7	319908	11.72	2447077	8.51	1855859	13.53
02	VBLK3070805B	335753	11.72	2552271	8.51	1940756	13.54
03	LCS3070805A	348526	11.72	2667157	8.5	2044352	13.53
04	G161-2047-15A MSD	329156	11.72	2500022	8.5	1893613	13.54
05	G161-2047-15B MS	311385	11.72	2376262	8.49	1848104	13.54
06	G161-2047-15C	323156	11.73	2433775	8.5	1847356	13.54
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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

N.C. Certification #481 S.C. Certification #99029

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 Lab Sample ID: LCS3070805A
Sample wt/vol: 5 (g) Lab File ID: 0708304.D
Level: (low/med) LOW
% Moisture: not dec 0% Date Analyzed: 07/08/05 09:20
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	101	101	50.8-149
107-02-8	acrolein	1000	133	13.3	NA-238
107-13-1	acrylonitrile	1000	91.5	9.15	NA-212
71-43-2	benzene	100	98.0	98.0	77.6-122
108-86-1	bromobenzene	100	94.4	94.4	76.3-124
74-97-5	bromochloromethane	100	97.3	97.3	80.5-120
75-27-4	bromodichloromethane	100	95.9	95.9	77.4-122
75-25-2	bromoform	100	101	101	81.8-118
74-83-9	bromomethane	100	88.1	88.1	31.5-168
78-93-3	2-butanone	100	103	103	56.5-144
104-51-8	n-butylbenzene	100	99.0	99.0	76.8-123
135-98-8	sec-butylbenzene	100	100	100	78.5-122
98-06-6	tert-butylbenzene	100	98.2	98.2	77.7-122
75-15-0	Carbon disulfide	100	101	101	74.3-126
56-23-5	carbon tetrachloride	100	99.6	99.6	68.0-132
108-90-7	chlorobenzene	100	94.9	94.9	75.3-125
75-00-3	chloroethane	100	36.6	36.6	10.0-260
110-75-8	2-chloroethyl vinyl ether	100	0.00	0.00	NA-1020
67-66-3	chloroform	100	99.5	99.5	74.7-125
74-87-3	chloromethane	100	96.0	96.0	78.6-121
95-49-8	2-chlorotoluene	100	96.3	96.3	77.8-122
106-43-4	4-chlorotoluene	100	95.8	95.8	77.2-123
124-48-1	dibromochloromethane	100	92.0	92.0	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	500	91.2	18.2*	67.4-133
106-93-4	1,2-dibromomethane	100	92.6	92.6	80.2-120
74-95-3	dibromomethane	100	95.2	95.2	81.0-119
95-50-1	1,2-dichlorobenzene	100	93.4	93.4	80.1-120
541-73-1	1,3-dichlorobenzene	100	95.7	95.7	78.9-121
106-46-7	1,4-dichlorobenzene	100	95.7	95.7	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	500	93.7	18.7*	69.5-130
75-71-8	dichlorodifluoromethane	100	99.5	99.5	65.0-135
75-34-3	1,1-dichloroethane	100	99.6	99.6	74.2-126
107-06-2	1,2-dichloroethane	100	90.3	90.3	74.9-125
75-35-4	1,1-dichloroethene	100	101	101	78.5-121
156-59-2	cis-1,2-dichloroethene	100	100	100	77.6-122
156-60-5	trans-1,2-dichloroethene	100	102	102	78.5-121
78-87-5	1,2-dichloropropane	100	97.5	97.5	76.6-123
142-28-9	1,3-dichloropropane	100	92.7	92.7	84.9-115
594-20-7	2,2-dichloropropane	100	93.8	93.8	68.6-131
563-58-6	1,1-dichloropropene	100	100	100	79.3-121
10061-01-5	cis-1,3-dichloropropene	100	98.8	98.8	75.8-124

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 Lab Sample ID: LCS3070805A
Sample wt/vol: 5 (g) Lab File ID: 0708304.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 07/08/05 09:20
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	96.8	96.8	77.5-122
108-20-3	Diisopropyl ether	100	92.0	92.0	71.8-128
100-41-4	ethylbenzene	100	101	101	76.3-124
87-68-3	hexachlorobutadiene	100	101	101	73.5-126
591-78-6	2-hexanone	100	88.3	88.3	61.2-139
74-88-4	Iodomethane	100	112	112	37.0-163
98-82-8	isopropylbenzene	100	98.9	98.9	77.6-122
99-87-6	4-isopropyltoluene	100	101	101	78.1-122
1634-04-4	Methyl-tert-butyl ether	100	92.9	92.9	78.9-121
75-09-2	methylene chloride	100	94.6	94.6	57.9-142
108-10-1	4-methyl-2-pentanone	100	90.5	90.5	65.1-135
91-20-3	naphthalene	100	97.9	97.9	69.3-131
103-65-1	n-propyl benzene	100	102	102	78.3-122
100-42-5	styrene	100	97.8	97.8	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	100	93.4	93.4	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	100	94.7	94.7	78.4-122
127-18-4	tetrachloroethene	100	98.5	98.5	73.0-127
108-88-3	toluene	100	102	102	75.7-124
87-61-6	1,2,3-trichlorobenzene	100	92.3	92.3	76.5-124
120-82-1	1,2,4-trichlorobenzene	100	93.9	93.9	74.2-126
71-55-6	1,1,1-trichloroethane	100	98.1	98.1	70.5-130
79-00-5	1,1,2-trichloroethane	100	92.3	92.3	84.2-116
79-01-6	trichloroethene	100	98.3	98.3	60.8-139
75-69-4	trichlorofluoromethane	100	88.8	88.8	10.0-232
96-18-4	1,2,3-trichloropropane	100	103	103	74.4-126
95-36-3	1,2,4-trimethylbenzene	100	98.9	98.9	77.4-122
108-67-8	1,3,5-trimethylbenzene	100	98.9	98.9	77.6-122
108-05-4	Vinyl acetate	250	125	49.9	NA-NA
75-01-4	vinyl chloride	100	104	104	79.6-120
108-38-3	m/p-xylene	200	198	99.0	78.8-121
95-47-6	o-xylene	100	97.8	97.8	78.7-121

PARADIGM ANALYTICAL LABORATORIES, INC.

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: LCS4071205A
Sample wt/vol: 5 (mL) Lab File ID: 0712403.D
Level: (low/med) LOW
% Moisture: not dec. NA Date Analyzed: 07/12/05 12:25
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/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
67-64-1	acetone	25.0	10.6	42.4	41.1-159
107-02-8	acrolein	125	87.2	69.7	NA-214
107-13-1	acrylonitrile	125	114	90.8	60.4-140
71-43-2	benzene	5.00	4.70	94.0	77.4-123
108-86-1	bromobenzene	5.00	4.83	96.6	60.2-140
74-97-5	bromochloromethane	5.00	4.87	97.4	69.2-131
75-27-4	bromodichloromethane	5.00	4.22	84.4	73.8-126
75-25-2	bromoform	5.00	4.39	87.8	57.3-143
74-83-9	bromomethane	5.00	6.35	127	33.0-167
78-93-3	2-butanone	25.0	17.2	68.6	50.5-150
104-51-8	n-butylbenzene	5.00	4.46	89.2	71.3-129
135-98-8	sec-butylbenzene	5.00	4.63	92.6	72.2-128
98-06-6	tert-butylbenzene	5.00	4.74	94.8	75.0-125
75-15-0	Carbon disulfide	5.00	4.76	95.2	68.3-132
56-23-5	carbon tetrachloride	5.00	4.73	94.6	76.8-123
108-90-7	chlorobenzene	5.00	4.84	96.8	72.5-128
75-00-3	chloroethane	5.00	5.30	106	72.6-127
110-75-8	2-chloroethyl vinyl ether	12.5	11.0	88.3	6.49-194
67-66-3	chloroform	5.00	4.51	90.2	73.5-126
74-87-3	chloromethane	5.00	4.95	99.0	50.7-149
95-49-8	2-chlorotoluene	5.00	4.70	94.0	77.7-122
106-43-4	4-chlorotoluene	5.00	4.71	94.2	75.2-125
124-48-1	dibromochloromethane	5.00	4.48	89.6	65.0-135
96-12-8	1,2-dibromo-3-chloropropane	25.0	18.9	75.7	60.8-139
106-93-4	1,2-dibromomethane	5.00	4.45	89.0	69.7-130
74-95-3	dibromomethane	5.00	4.41	88.2	76.0-124
95-50-1	1,2-dichlorobenzene	5.00	4.43	88.6	73.0-127
541-73-1	1,3-dichlorobenzene	5.00	4.54	90.8	71.3-129
106-46-7	1,4-dichlorobenzene	5.00	4.46	89.2	72.2-128
110-57-6	trans-1,4-Dichloro-2-butene	25.0	18.1	72.3	48.0-152
75-71-8	dichlorodifluoromethane	5.00	6.53	131*	80.7-119
75-34-3	1,1-dichloroethane	5.00	4.51	90.2	69.4-130
107-06-2	1,2-dichloroethane	5.00	4.24	84.8	67.4-133
75-35-4	1,1-dichloroethene	5.00	4.79	95.8	71.7-128
156-59-2	cis-1,2-dichloroethene	5.00	4.70	94.0	76.4-124
156-60-5	trans-1,2-dichloroethene	5.00	4.85	97.0	73.9-126
78-87-5	1,2-dichloropropane	5.00	4.42	88.4	73.0-127
142-28-9	1,3-dichloropropane	5.00	4.29	85.8	76.7-123
594-20-7	2,2-dichloropropane	5.00	4.57	91.4	41.4-159
563-58-6	1,1-dichloropropene	5.00	4.62	92.4	72.8-127
10061-01-5	cis-1,3-dichloropropene	5.00	4.25	85.0	65.6-134

N.C. Certification #481 S.C. Certification #99029

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: LCS4071205A
Sample wt/vol: 5 (mL) Lab File ID: 0712403.D
Level: (low/med) LOW
% Moisture: not dec NA Date Analyzed: 07/12/05 12:25
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/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	5.00	3.88	77.6	64.4-136
108-20-3	Diisopropyl ether	5.00	4.06	81.2	69.7-130
100-41-4	ethylbenzene	5.00	4.67	93.4	77.0-123
87-68-3	hexachlorobutadiene	5.00	5.20	104	57.4-142
591-78-6	2-hexanone	25.0	12.8	51.1*	57.3-143
74-88-4	Iodomethane	5.00	4.93	98.6	57.3-143
98-82-8	isopropylbenzene	5.00	4.75	95.0	76.5-123
99-87-6	4-isopropyltoluene	5.00	4.67	93.4	73.8-126
1634-04-4	Methyl-tert-butyl ether	5.00	3.96	79.2	67.9-132
75-09-2	methylene chloride	5.00	4.81	96.2	20.0-337
108-10-1	4-methyl-2-pentanone	25.0	16.6	66.4	62.3-138
91-20-3	naphthalene	5.00	4.02	80.4	59.0-141
103-65-1	n-propyl benzene	5.00	4.70	94.0	75.3-125
100-42-5	styrene	5.00	4.58	91.6	77.3-123
630-20-6	1,1,1,2-tetrachloroethane	5.00	4.90	98.0	67.3-133
79-34-5	1,1,2,2-tetrachloroethane	5.00	4.55	91.0	62.3-138
127-18-4	tetrachloroethene	5.00	5.46	109	56.0-144
108-88-3	toluene	5.00	4.81	96.2	75.9-124
87-61-6	1,2,3-trichlorobenzene	5.00	4.36	87.2	52.8-147
120-82-1	1,2,4-trichlorobenzene	5.00	4.35	87.0	54.4-146
71-55-6	1,1,1-trichloroethane	5.00	4.61	92.2	75.0-125
79-00-5	1,1,2-trichloroethane	5.00	4.47	89.4	73.9-126
79-01-6	trichloroethene	5.00	4.73	94.6	77.9-122
75-69-4	trichlorofluoromethane	5.00	5.34	107	82.7-117
96-18-4	1,2,3-trichloropropane	5.00	4.12	82.4	61.5-138
95-36-3	1,2,4-trimethylbenzene	5.00	4.34	86.8	73.8-126
108-67-8	1,3,5-trimethylbenzene	5.00	4.43	88.6	74.6-125
108-05-4	Vinyl acetate	12.5	9.46	75.7	5.00-NA
75-01-4	vinyl chloride	5.00	5.35	107	74.5-126
108-38-3	m/p-xylene	10.0	9.75	97.5	76.2-124
95-47-6	o-xylene	5.00	4.76	95.2	76.0-124

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

Lab Sample ID: LCS3070805a
Analyst: RNP
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 9:20 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	100	97.96	98.0	77.6	122
chlorobenzene	100	94.92	94.9	75.3	125
1,1-dichloroethene	100	101.49	101.5	78.5	121
toluene	100	101.79	101.8	75.7	124
trichloroethene	100	98.29	98.3	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 LCS/LCSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: LCS3070805b
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 9:20 am
Matrix: Soil
Analyzed By: RNP

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	100	98.0	102.2	77.6	122	4.3	30
chlorobenzene	100	94.9	99.1	75.3	125	4.3	30
1,1-dichloroethene	100	101.5	106.0	78.5	121	4.4	30
toluene	100	101.8	105.8	75.7	124	3.9	30
trichloroethene	100	98.3	101.7	60.8	139	3.4	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 MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: G161-2047-15c
Batch ID: 3070805

Date Analyzed: 8 Jul 2005 6:42 pm
Matrix: Soil
Analyzed By: RNP

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	0.5	100	102.6	103.2	74.8	133	0.6	30
chlorobenzene	BQL	100	86.4	88.0	66.3	135	1.9	30
1,1-dichloroethene	BQL	100	105.1	103.5	72.0	135	1.6	30
toluene	5.1	100	95.6	107.6	70.5	138	11.7	30
trichloroethene	BQL	100	97.6	97.9	60.7	152	0.4	30

Comments:

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

Flags:

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

Reviewed By: [illegible]

VO41.072303.1

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

Lab Sample ID: lcs4071205b
Analyst: JTF
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 12:25 pm
Matrix: Water

Compound	Spiked ug/L	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	5.0	4.70	94.1	77.4	123
chlorobenzene	5.0	4.84	96.7	72.5	128
1,1-dichloroethene	5.0	4.79	95.9	71.7	128
toluene	5.0	4.81	96.1	75.9	124
trichloroethene	5.0	4.73	94.5	77.9	122

Comments:
Concentration values are on column amount.

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

Reviewed By:

VO42 072303.1

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
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	7/12/2005
Bromobenzene	BQL	0.500	1	7/12/2005
Bromochloromethane	BQL	0.500	1	7/12/2005
Bromodichloromethane	BQL	0.500	1	7/12/2005
Bromoform	BQL	0.500	1	7/12/2005
Bromomethane	BQL	0.500	1	7/12/2005
n-Butylbenzene	BQL	0.500	1	7/12/2005
sec-Butylbenzene	BQL	0.500	1	7/12/2005
tert-Butylbenzene	BQL	0.500	1	7/12/2005
Carbon tetrachloride	BQL	0.500	1	7/12/2005
Chlorobenzene	BQL	0.500	1	7/12/2005
Chloroethane	BQL	0.500	1	7/12/2005
Chloroform	BQL	0.500	1	7/12/2005
Chloromethane	BQL	0.500	1	7/12/2005
2-Chlorotoluene	BQL	0.500	1	7/12/2005
4-Chlorotoluene	BQL	0.500	1	7/12/2005
Dibromochloromethane	BQL	0.500	1	7/12/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	7/12/2005
Dibromomethane	BQL	0.500	1	7/12/2005
1,2-Dibromoethane (EDB)	BQL	0.500	1	7/12/2005
1,2-Dichlorobenzene	BQL	0.500	1	7/12/2005
1,3-Dichlorobenzene	BQL	0.500	1	7/12/2005
1,4-Dichlorobenzene	BQL	0.500	1	7/12/2005
1,1-Dichloroethane	BQL	0.500	1	7/12/2005
1,1-Dichloroethene	BQL	0.500	1	7/12/2005
1,2-Dichloroethane	BQL	0.500	1	7/12/2005
cis-1,2-Dichloroethene	BQL	0.500	1	7/12/2005
trans-1,2-dichloroethene	BQL	0.500	1	7/12/2005
1,2-Dichloropropane	BQL	0.500	1	7/12/2005
1,3-Dichloropropane	BQL	0.500	1	7/12/2005
2,2-Dichloropropane	BQL	0.500	1	7/12/2005
1,1-Dichloropropene	BQL	0.500	1	7/12/2005
Dichlorodifluoromethane	BQL	5.00	1	7/12/2005
Diisopropyl ether (DIPE)	BQL	0.500	1	7/12/2005
Ethylbenzene	BQL	0.500	1	7/12/2005
Hexachlorobutadiene	BQL	0.500	1	7/12/2005
Isopropylbenzene	BQL	0.500	1	7/12/2005
4-Isopropyltoluene	BQL	0.500	1	7/12/2005
Methylene chloride	BQL	5.00	1	7/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.500	1	7/12/2005
Naphthalene	BQL	0.500	1	7/12/2005
n-Propyl benzene	BQL	0.500	1	7/12/2005
Styrene	BQL	0.500	1	7/12/2005
1,1,1,2-Tetrachloroethane	BQL	0.500	1	7/12/2005
1,1,2,2-Tetrachloroethane	BQL	0.500	1	7/12/2005

Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4071205B
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	7/12/2005
Toluene	BQL	0.500	1	7/12/2005
1,2,3-Trichlorobenzene	BQL	0.500	1	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.500	1	7/12/2005
Trichloroethene	BQL	0.500	1	7/12/2005
1,1,1-Trichloroethane	BQL	0.500	1	7/12/2005
1,1,2-Trichloroethane	BQL	0.500	1	7/12/2005
Trichlorofluoromethane	BQL	0.500	1	7/12/2005
1,2,3-Trichloropropane	BQL	0.500	1	7/12/2005
1,2,4-Trimethylbenzene	BQL	0.500	1	7/12/2005
1,3,5-Trimethylbenzene	BQL	0.500	1	7/12/2005
Vinyl chloride	BQL	0.500	1	7/12/2005
m-,p-Xylene	BQL	1.00	1	7/12/2005
o-Xylene	BQL	0.500	1	7/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.5	105
1,2-Dichloroethane-d4	10	8.84	88
Toluene-d8	10	10.2	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC Inst: MSD4 Batch ID: 4071205

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

Matrix Spike - EPA Sample No : G235-83-2a Matrix:Water 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	25.0	6.17	24.7	25.0	7.46	29.8	18.9	30	17.7-85.2
acrolein	BQL	125	100	80.3	125	71.1	56.8	34.2*	30	NA-424
acrylonitrile	BQL	125	107	85.8	125	109	87.0	1.33	30	85.0-175
benzene	BQL	5.00	5.09	102	5.00	4.78	95.6	6.28	30	61.6-135
bromobenzene	BQL	5.00	5.59	112	5.00	5.09	102	9.36	30	65.1-125
bromochloromethane	BQL	5.00	4.99	99.8	5.00	4.81	96.2	3.67	30	75.5-126
bromodichloromethane	2.58	5.00	1.80	36.0*	5.00	1.56	31.2*	14.3	30	74.3-123
bromoform	BQL	5.00	4.77	95.4	5.00	4.70	94.0	1.48	30	52.3-122
bromomethane	BQL	5.00	6.39	128	5.00	6.13	123	4.15	30	10.0-284
2-butanone	BQL	25.0	15.0	60.0	25.0	15.0	60.0	0.133	30	36.1-107
n-butylbenzene	BQL	5.00	4.85	97.0	5.00	4.57	91.4	5.94	30	70.2-124
sec-butylbenzene	BQL	5.00	5.18	104	5.00	4.76	95.2	8.45	30	62.0-133
tert-butylbenzene	BQL	5.00	5.26	105	5.00	4.89	97.8	7.29	30	73.5-121
Carbon disulfide	BQL	5.00	5.18	104	5.00	4.81	96.2	7.41	30	68.8-129
carbon tetrachloride	BQL	5.00	5.12	102	5.00	4.71	94.2	8.34	30	71.8-122
chlorobenzene	BQL	5.00	5.54	111	5.00	5.16	103	7.10	30	77.2-118
chloroethane	BQL	5.00	5.54	111	5.00	5.23	105	5.76	30	10.0-233
2-chloroethyl vinyl ether	BQL	12.5	10.7	85.7	12.5	11.0	87.8	2.40	30	NA-283
chloroform	21.6	5.00	-16.8	-337*	5.00	-17.1	-343*	1.77	30	74.0-128
chloromethane	BQL	5.00	4.94	98.8	5.00	4.73	94.6	4.34	30	72.0-138
2-chlorotoluene	BQL	5.00	5.17	103	5.00	4.84	96.8	6.59	30	79.3-118
4-chlorotoluene	BQL	5.00	4.94	98.8	5.00	4.63	92.6	6.48	30	76.8-120
dibromochloromethane	BQL	5.00	4.65	93.0	5.00	4.26	85.2	8.75	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	25.0	16.3	65.1	25.0	18.2	72.9	11.2	30	20.2-171
1,2-dibromomethane	BQL	5.00	4.92	98.4	5.00	4.63	92.6	6.07	30	78.5-123
dibromomethane	BQL	5.00	4.51	90.2	5.00	4.11	82.2	9.28	30	71.3-137
1,2-dichlorobenzene	BQL	5.00	4.45	89.0	5.00	4.39	87.8	1.36	30	75.1-120
1,3-dichlorobenzene	BQL	5.00	4.72	94.4	5.00	4.47	89.4	5.44	30	73.1-121
1,4-dichlorobenzene	BQL	5.00	4.48	89.6	5.00	4.31	86.2	3.87	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	25.0	18.7	74.9	25.0	16.9	67.6	10.2	30	25.7-149
dichlorodifluoromethane	BQL	5.00	6.75	135	5.00	6.45	129	4.54	30	41.7-166
1,1-dichloroethane	BQL	5.00	4.90	98.0	5.00	4.51	90.2	8.29	30	75.6-128
1,2-dichloroethane	BQL	5.00	4.16	83.2	5.00	3.98	79.6	4.42	30	71.1-127
1,1-dichloroethene	BQL	5.00	5.33	107	5.00	4.88	97.6	8.81	30	64.4-130
cis-1,2-dichloroethene	BQL	5.00	5.17	103	5.00	4.61	92.2	11.4	30	72.7-134
trans-1,2-dichloroethene	BQL	5.00	5.35	107	5.00	5.00	100	6.76	30	74.6-124
1,2-dichloropropane	BQL	5.00	4.51	90.2	5.00	4.29	85.8	5.00	30	76.5-129
1,3-dichloropropane	BQL	5.00	4.63	92.6	5.00	4.25	85.0	8.56	30	79.1-121
2,2-dichloropropane	BQL	5.00	4.69	93.8	5.00	4.24	84.8	10.1	30	31.5-157
1,1-dichloropropene	BQL	5.00	5.16	103	5.00	4.73	94.6	8.70	30	72.5-120
cis-1,3-dichloropropene	BQL	5.00	4.38	87.6	5.00	4.07	81.4	7.34	30	66.6-132

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

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

N.C. Certification #481 S.C. Certification #99029

PARADIGM ANALYTICAL LABORATORIES, INC.

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.: G235-83-2a

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	5.00	3.72	74.4	5.00	3.51	70.2	5.81	30	44.7-144
Diisopropyl ether	BQL	5.00	4.26	85.2	5.00	3.93	78.6*	8.06	30	79.4-122
ethylbenzene	BQL	5.00	4.67	93.4	5.00	4.13	82.6	12.3	30	73.8-126
hexachlorobutadiene	BQL	5.00	5.23	105	5.00	5.09	102	2.71	30	51.8-134
2-hexanone	BQL	25.0	13.3	53.4	25.0	12.9	51.8	3.04	30	41.6-111
Iodomethane	BQL	5.00	5.50	110	5.00	5.21	104	5.42	30	40.6-126
isopropylbenzene	BQL	5.00	5.34	107	5.00	4.94	98.8	7.78	30	74.3-123
4-isopropyltoluene	BQL	5.00	5.13	103	5.00	4.79	95.8	6.85	30	74.6-122
Methyl-tert-butyl ether	BQL	5.00	4.09	81.8	5.00	3.79	75.8	7.61	30	66.5-136
methylene chloride	BQL	5.00	5.05	101	5.00	4.48	89.6	12.0	30	48.6-155
4-methyl-2-pentanone	BQL	25.0	18.5	73.9	25.0	16.8	67.4	9.17	30	6.88-166
naphthalene	BQL	5.00	13.0	261*	5.00	6.73	135	63.8*	30	55.1-140
n-propyl benzene	BQL	5.00	5.28	106	5.00	4.76	95.2	10.4	30	71.6-128
styrene	BQL	5.00	4.87	97.4	5.00	4.45	89.0	9.01	30	73.2-123
1,1,1,2-tetrachloroethane	BQL	5.00	5.49	110	5.00	5.16	103	6.20	30	69.4-120
1,1,2,2-tetrachloroethane	BQL	5.00	5.05	101	5.00	4.79	95.8	5.28	30	75.7-136
tetrachloroethene	BQL	5.00	6.50	130	5.00	6.00	120	8.00	30	45.8-153
toluene	BQL	5.00	5.23	105	5.00	4.84	96.8	7.74	30	66.4-128
1,2,3-trichlorobenzene	BQL	5.00	3.09	61.8	5.00	4.49	89.8	36.9*	30	61.0-126
1,2,4-trichlorobenzene	BQL	5.00	3.70	74.0	5.00	4.50	90.0	19.5	30	60.6-125
1,1,1-trichloroethane	BQL	5.00	5.08	102	5.00	4.79	95.8	5.88	30	78.4-121
1,1,2-trichloroethane	BQL	5.00	4.92	98.4	5.00	4.49	89.8	9.14	30	64.8-128
trichloroethene	BQL	5.00	5.24	105	5.00	4.91	98.2	6.50	30	84.9-136
trichlorofluoromethane	BQL	5.00	5.61	112	5.00	5.40	108	3.81	30	76.8-132
1,2,3-trichloropropane	BQL	5.00	4.56	91.2	5.00	4.22	84.4	7.74	30	10.0-218
1,2,4-trimethylbenzene	BQL	5.00	6.12	122	5.00	4.85	97.0	23.2	30	31.0-172
1,3,5-trimethylbenzene	BQL	5.00	5.23	105	5.00	4.77	95.4	9.20	30	67.7-132
Vinyl acetate	BQL	12.5	9.69	77.5	12.5	8.99	71.9	7.49	30	NA-355
vinyl chloride	BQL	5.00	5.73	114	5.00	5.49	110	4.28	30	68.1-137
m/p-xylene	BQL	10.0	10.2	102	10.0	9.02	90.2	12.4	30	79.8-118
o-xylene	BQL	5.00	5.16	103	5.00	4.79	95.8	7.44	30	80.0-121

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

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 6 out of 144 outside of limits

COMMENTS: _____

N.C. Certification #481 S.C. Certification #99029

Results for MS/MSD
by GC/MS

Client Project ID: Batch QC
Lab Sample ID: g235-83-2a
Batch ID: 4071205

Date Analyzed: 12 Jul 2005 10:31 pm
Matrix: water
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	5	102.3	96.1	61.6	135	6.2	30
chlorobenzene	BQL	5	110.7	103.2	77.2	118	7.1	30
1,1-dichloroethene	BQL	5	106.6	97.6	64.4	130	8.8	30
toluene	BQL	5	105.0	97.2	66.4	128	7.6	30
trichloroethene	BQL	5	104.9	98.2	84.9	136	6.6	30

Comments:

Concentrations are on column amounts
Concentration Units: ug/L

Flags:

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

Reviewed By:

VO43.072303.1

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: MW-1-2
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1G
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:00
Date Received: 7/5/2005
Date Extracted: 7/7/2005
Matrix: Soil
% Solids: 89.57

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.331	1	7/12/2005
Acenaphthylene	BQL	0.331	1	7/12/2005
Anthracene	BQL	0.331	1	7/12/2005
Benzo[a]anthracene	BQL	0.331	1	7/12/2005
Benzo[a]pyrene	BQL	0.331	1	7/12/2005
Benzo[b]fluoranthene	BQL	0.331	1	7/12/2005
Benzo[g,h,i]perylene	BQL	0.331	1	7/12/2005
Benzo[k]fluoranthene	BQL	0.331	1	7/12/2005
Bis(2-chloroethoxy)methane	BQL	0.331	1	7/12/2005
Bis(2-chloroethyl)ether	BQL	0.331	1	7/12/2005
Bis(2-chloroisopropyl)ether	BQL	0.331	1	7/12/2005
Bis(2-ethylhexyl)phthalate	BQL	0.331	1	7/12/2005
4-bromophenyl phenyl ether	BQL	0.331	1	7/12/2005
Butylbenzylphthalate	BQL	0.331	1	7/12/2005
2-Chloronaphthalene	BQL	0.331	1	7/12/2005
4-Chloroaniline	BQL	1.66	1	7/12/2005
4-Chlorophenyl phenyl ether	BQL	0.331	1	7/12/2005
Chrysene	BQL	0.331	1	7/12/2005
Dibenzo[a,h]anthracene	BQL	0.331	1	7/12/2005
Dibenzofuran	BQL	0.331	1	7/12/2005
Di-n-Butylphthalate	BQL	0.331	1	7/12/2005
1,2-Dichlorobenzene	BQL	0.331	1	7/12/2005
1,3-Dichlorobenzene	BQL	0.331	1	7/12/2005
1,4-Dichlorobenzene	BQL	0.331	1	7/12/2005
3,3'-Dichlorobenzidine	BQL	0.663	1	7/12/2005
Diethylphthalate	BQL	0.331	1	7/12/2005
Dimethylphthalate	BQL	0.331	1	7/12/2005
Di-n-octylphthalate	BQL	0.331	1	7/12/2005
2,4-Dinitrotoluene	BQL	0.331	1	7/12/2005
2,6-Dinitrotoluene	BQL	0.331	1	7/12/2005
Diphenylamine *	BQL	0.331	1	7/12/2005
Fluoranthene	BQL	0.331	1	7/12/2005
Fluorene	BQL	0.331	1	7/12/2005
Hexachlorobenzene	BQL	0.331	1	7/12/2005
Hexachlorobutadiene	BQL	0.331	1	7/12/2005
Hexachlorocyclopentadiene	BQL	0.663	1	7/12/2005
Hexachloroethane	BQL	0.331	1	7/12/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.331	1	7/12/2005
Isophorone	BQL	0.331	1	7/12/2005
2-Methylnaphthalene	BQL	0.331	1	7/12/2005
Naphthalene	BQL	0.331	1	7/12/2005
2-Nitroaniline	BQL	0.331	1	7/12/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: MW-1-2
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-1G
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:00
Date Received: 7/5/2005
Date Extracted: 7/7/2005
Matrix: Soil
% Solids: 89.57

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.66	1	7/12/2005
4-Nitroaniline	BQL	1.66	1	7/12/2005
Nitrobenzene	BQL	0.331	1	7/12/2005
N-Nitrosodi-n-propylamine	BQL	0.331	1	7/12/2005
Phenanthrene	BQL	0.331	1	7/12/2005
Pyrene	BQL	0.331	1	7/12/2005
1,2,4-Trichlorobenzene	BQL	0.331	1	7/12/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.3	103
Nitrobenzene-d5	10	10.2	102
4-Terphenyl-d14	10	12.5	125

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RJV

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: MW-1-7
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-2H
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:05
Date Received: 7/5/2005
Date Extracted: 7/11/2005
Matrix: Soil
% Solids: 88.3

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.348	1	7/11/2005
Acenaphthylene	BQL	0.348	1	7/11/2005
Anthracene	BQL	0.348	1	7/11/2005
Benzo[a]anthracene	BQL	0.348	1	7/11/2005
Benzo[a]pyrene	BQL	0.348	1	7/11/2005
Benzo[b]fluoranthene	BQL	0.348	1	7/11/2005
Benzo[g,h,i]perylene	BQL	0.348	1	7/11/2005
Benzo[k]fluoranthene	BQL	0.348	1	7/11/2005
Bis(2-chloroethoxy)methane	BQL	0.348	1	7/11/2005
Bis(2-chloroethyl)ether	BQL	0.348	1	7/11/2005
Bis(2-chloroisopropyl)ether	BQL	0.348	1	7/11/2005
Bis(2-ethylhexyl)phthalate	BQL	0.348	1	7/11/2005
4-bromophenyl phenyl ether	BQL	0.348	1	7/11/2005
Butylbenzylphthalate	BQL	0.348	1	7/11/2005
2-Chloronaphthalene	BQL	0.348	1	7/11/2005
4-Chloroaniline	BQL	1.74	1	7/11/2005
4-Chlorophenyl phenyl ether	BQL	0.348	1	7/11/2005
Chrysene	BQL	0.348	1	7/11/2005
Dibenzo[a,h]anthracene	BQL	0.348	1	7/11/2005
Dibenzofuran	BQL	0.348	1	7/11/2005
Di-n-Butylphthalate	BQL	0.348	1	7/11/2005
1,2-Dichlorobenzene	BQL	0.348	1	7/11/2005
1,3-Dichlorobenzene	BQL	0.348	1	7/11/2005
1,4-Dichlorobenzene	BQL	0.348	1	7/11/2005
3,3'-Dichlorobenzidine	BQL	0.696	1	7/11/2005
Diethylphthalate	BQL	0.348	1	7/11/2005
Dimethylphthalate	BQL	0.348	1	7/11/2005
Di-n-octylphthalate	BQL	0.348	1	7/11/2005
2,4-Dinitrotoluene	BQL	0.348	1	7/11/2005
2,6-Dinitrotoluene	BQL	0.348	1	7/11/2005
Diphenylamine *	BQL	0.348	1	7/11/2005
Fluoranthene	BQL	0.348	1	7/11/2005
Fluorene	BQL	0.348	1	7/11/2005
Hexachlorobenzene	BQL	0.348	1	7/11/2005
Hexachlorobutadiene	BQL	0.348	1	7/11/2005
Hexachlorocyclopentadiene	BQL	0.696	1	7/11/2005
Hexachloroethane	BQL	0.348	1	7/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.348	1	7/11/2005
Isophorone	BQL	0.348	1	7/11/2005
2-Methylnaphthalene	BQL	0.348	1	7/11/2005
Naphthalene	BQL	0.348	1	7/11/2005
2-Nitroaniline	BQL	0.348	1	7/11/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: MW-1-7
Client Project ID: Sierra Property
Lab Sample ID: G161-2055-2H
Lab Project ID: G161-2055
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 7/1/2005 10:05
Date Received: 7/5/2005
Date Extracted: 7/11/2005
Matrix: Soil
% Solids: 88.3

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.74	1	7/11/2005
4-Nitroaniline	BQL	1.74	1	7/11/2005
Nitrobenzene	BQL	0.348	1	7/11/2005
N-Nitrosodi-n-propylamine	BQL	0.348	1	7/11/2005
Phenanthrene	BQL	0.348	1	7/11/2005
Pyrene	BQL	0.348	1	7/11/2005
1,2,4-Trichlorobenzene	BQL	0.348	1	7/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10.3	103
4-Terphenyl-d14	10	13.1	131

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: PNV

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3187
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	313	1	7/8/2005
Acenaphthylene	BQL	313	1	7/8/2005
Anthracene	BQL	313	1	7/8/2005
Benzo[a]anthracene	BQL	313	1	7/8/2005
Benzo[a]pyrene	BQL	313	1	7/8/2005
Benzo[b]fluoranthene	BQL	313	1	7/8/2005
Benzo[g,h,i]perylene	BQL	313	1	7/8/2005
Benzo[k]fluoranthene	BQL	313	1	7/8/2005
Bis(2-chloroethoxy)methane	BQL	313	1	7/8/2005
Bis(2-chloroethyl)ether	BQL	313	1	7/8/2005
Bis(2-chloroisopropyl)ether	BQL	313	1	7/8/2005
Bis(2-ethylhexyl)phthalate	BQL	313	1	7/8/2005
4-bromophenyl phenyl ether	BQL	313	1	7/8/2005
Butylbenzylphthalate	BQL	313	1	7/8/2005
2-Chloronaphthalene	BQL	313	1	7/8/2005
4-Chloroaniline	BQL	1560	1	7/8/2005
4-Chlorophenyl phenyl ether	BQL	313	1	7/8/2005
Chrysene	BQL	313	1	7/8/2005
Dibenzo[a,h]anthracene	BQL	313	1	7/8/2005
Dibenzofuran	BQL	313	1	7/8/2005
Di-n-Butylphthalate	BQL	313	1	7/8/2005
1,2-Dichlorobenzene	BQL	313	1	7/8/2005
1,3-Dichlorobenzene	BQL	313	1	7/8/2005
1,4-Dichlorobenzene	BQL	313	1	7/8/2005
3,3'-Dichlorobenzidine	BQL	625	1	7/8/2005
Diethylphthalate	BQL	313	1	7/8/2005
Dimethylphthalate	BQL	313	1	7/8/2005
Di-n-octylphthalate	BQL	313	1	7/8/2005
2,4-Dinitrotoluene	BQL	313	1	7/8/2005
2,6-Dinitrotoluene	BQL	313	1	7/8/2005
Diphenylamine *	BQL	313	1	7/8/2005
Fluoranthene	BQL	313	1	7/8/2005
Fluorene	BQL	313	1	7/8/2005
Hexachlorobenzene	BQL	313	1	7/8/2005
Hexachlorobutadiene	BQL	313	1	7/8/2005
Hexachlorocyclopentadiene	BQL	625	1	7/8/2005
Hexachloroethane	BQL	313	1	7/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	313	1	7/8/2005
Isophorone	BQL	313	1	7/8/2005
2-Methylnaphthalene	BQL	313	1	7/8/2005
Naphthalene	BQL	313	1	7/8/2005
2-Nitroaniline	BQL	313	1	7/8/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3187
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1560	1	7/8/2005
4-Nitroaniline	BQL	1560	1	7/8/2005
Nitrobenzene	BQL	313	1	7/8/2005
N-Nitrosodi-n-propylamine	BQL	313	1	7/8/2005
Phenanthrene	BQL	313	1	7/8/2005
Pyrene	BQL	313	1	7/8/2005
1,2,4-Trichlorobenzene	BQL	313	1	7/8/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.7	106
Nitrobenzene-d5	10	10.4	104
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 for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3202
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/11/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	313	1	7/11/2005
Acenaphthylene	BQL	313	1	7/11/2005
Anthracene	BQL	313	1	7/11/2005
Benzo[a]anthracene	BQL	313	1	7/11/2005
Benzo[a]pyrene	BQL	313	1	7/11/2005
Benzo[b]fluoranthene	BQL	313	1	7/11/2005
Benzo[g,h,i]perylene	BQL	313	1	7/11/2005
Benzo[k]fluoranthene	BQL	313	1	7/11/2005
Bis(2-chloroethoxy)methane	BQL	313	1	7/11/2005
Bis(2-chloroethyl)ether	BQL	313	1	7/11/2005
Bis(2-chloroisopropyl)ether	BQL	313	1	7/11/2005
Bis(2-ethylhexyl)phthalate	BQL	313	1	7/11/2005
4-bromophenyl phenyl ether	BQL	313	1	7/11/2005
Butylbenzylphthalate	BQL	313	1	7/11/2005
2-Chloronaphthalene	BQL	313	1	7/11/2005
4-Chloroaniline	BQL	1560	1	7/11/2005
4-Chlorophenyl phenyl ether	BQL	313	1	7/11/2005
Chrysene	BQL	313	1	7/11/2005
Dibenzo[a,h]anthracene	BQL	313	1	7/11/2005
Dibenzofuran	BQL	313	1	7/11/2005
Di-n-Butylphthalate	BQL	313	1	7/11/2005
1,2-Dichlorobenzene	BQL	313	1	7/11/2005
1,3-Dichlorobenzene	BQL	313	1	7/11/2005
1,4-Dichlorobenzene	BQL	313	1	7/11/2005
3,3'-Dichlorobenzidine	BQL	625	1	7/11/2005
Diethylphthalate	BQL	313	1	7/11/2005
Dimethylphthalate	BQL	313	1	7/11/2005
Di-n-octylphthalate	BQL	313	1	7/11/2005
2,4-Dinitrotoluene	BQL	313	1	7/11/2005
2,6-Dinitrotoluene	BQL	313	1	7/11/2005
Diphenylamine *	BQL	313	1	7/11/2005
Fluoranthene	BQL	313	1	7/11/2005
Fluorene	BQL	313	1	7/11/2005
Hexachlorobenzene	BQL	313	1	7/11/2005
Hexachlorobutadiene	BQL	313	1	7/11/2005
Hexachlorocyclopentadiene	BQL	625	1	7/11/2005
Hexachloroethane	BQL	313	1	7/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	313	1	7/11/2005
Isophorone	BQL	313	1	7/11/2005
2-Methylnaphthalene	BQL	313	1	7/11/2005
Naphthalene	BQL	313	1	7/11/2005
2-Nitroaniline	BQL	313	1	7/11/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3202
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/11/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1560	1	7/11/2005
4-Nitroaniline	BQL	1560	1	7/11/2005
Nitrobenzene	BQL	313	1	7/11/2005
N-Nitrosodi-n-propylamine	BQL	313	1	7/11/2005
Phenanthrene	BQL	313	1	7/11/2005
Pyrene	BQL	313	1	7/11/2005
1,2,4-Trichlorobenzene	BQL	313	1	7/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	11.4	114
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	13.4	134

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID:	Batch QC	Date Collected:	
Client Sample ID:		Date Received:	
Lab Sample ID:	Batch-3187-MS/MSD/LCS	Date Extracted:	07/07/05
Lab Project ID:		Date Analyzed:	07/08/05
Matrix:	SOIL	Analyzed By:	MRC
Prep Method:	3540	Dilution:	1

	Sample Amount (µg/kg)	MS Spike (µg/kg)	MS Conc. (µg/kg)	MS Spike % Rec.	MSD Spike (µg/kg)	MSD Conc. (µg/kg)	MSD Conc. % Rec.	RPD	QC Limits RPD	QC Limits % Rec.
Acenaphthylene	BQL	3330	4250	128	326	417	128.0	0.1	30	79.0-141
4-Chloro-3-methylphenol	BQL	3330	3430	103	326	349	107.0	3.62	30	40.0-133
2-Chlorophenol	BQL	3330	3350	101	326	336	103.0	2.16	30	64.0-108
1,4-Dichlorobenzene	BQL	3330	3530	106*	326	355	109*	2.60	30	56.0-95.0
2,4-Dinitrotoluene	BQL	3330	3720	112	326	368	113.0	0.713	30	48.0-121
N-Nitrosodi-n-propylamine	BQL	3330	3840	115	326	401	123*	6.38	30	70.0-119
4-Nitrophenol	BQL	3330	3580	108	326	391	120.0	10.6	30	40.0-147
Pentachlorophenol	BQL	3330	2580	77.6	326	265	81.1	4.41	30	40.0-122
Phenol	BQL	3330	3420	103	326	345	106.0	2.59	30	40.0-127
Pyrene	BQL	3330	5230	157*	326	507	155*	1.15	30	56.0-123
1,2,4-Trichlorobenzene	BQL	3330	3380	102	326	350	107*	5.56	30	65.0-105

	Spiked Amount (µg/kg)	LCS Conc. (µg/kg)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	3125	3780	121	66.7-146
4-Chloro-3-methylphenol	3125	3320	106	49.4-117
2-Chlorophenol	3125	3090	99.0	51.5-110
1,4-Dichlorobenzene	3125	3270	105*	51.1-100
2,4-Dinitrotoluene	3125	3490	112	51.1-120
N-Nitrosodi-n-propylamine	3125	3670	117	53.1-128
4-Nitrophenol	3125	3850	123*	39.5-118
Pentachlorophenol	3125	2520	80.8	38.8-99.4
Phenol	3125	3130	100	51.2-116
Pyrene	3125	4220	135*	38.0-132
1,2,4-Trichlorobenzene	3125	3170	102	55.1-111

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By: _____

Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC
Client Sample ID:
Lab Sample ID: Batch-3202-MS/MSD/LCS
Lab Project ID:
Matrix: SOIL
Prep Method: 3540

Date Collected:
Date Received:
Date Extracted: 07/11/05
Date Analyzed: 07/11/05
Analyzed By: MRC
Dilution: 1

	Sample Amount (µg/kg)	MS Spike (µg/kg)	MS Conc. (µg/kg)	MS Spike % Rec.	MSD Spike (µg/kg)	MSD Conc. (µg/kg)	MSD Conc. % Rec.	RPD	QC Limits RPD	QC Limits % Rec.
Acenaphthylene	BQL	3490	4430	127	3390	4380	129.0	1.56	30	79.0-141
4-Chloro-3-methylphenol	BQL	3490	3760	108	3390	3670	108.0	0.370	30	40.0-133
2-Chlorophenol	BQL	3490	3620	104	3390	3650	108.0	3.60	30	64.0-108
1,4-Dichlorobenzene	BQL	3490	3660	105*	3390	3900	115*	9.00	30	56.0-95.0
2,4-Dinitrotoluene	BQL	3490	3950	113	3390	3890	114.0	1.23	30	48.0-121
N-Nitrosodi-n-propylamine	BQL	3490	4200	120*	3390	4320	127*	5.73	30	70.0-119
4-Nitrophenol	BQL	3490	3890	111	3390	3720	110.0	1.72	30	40.0-147
Pentachlorophenol	BQL	3490	2800	80.2	3390	2850	83.9	4.51	30	40.0-122
Phenol	BQL	3490	3800	109	3390	3820	113.0	3.43	30	40.0-127
Pyrene	BQL	3490	5290	152*	3390	5160	152*	0.395	30	56.0-123
1,2,4-Trichlorobenzene	BQL	3490	3590	103	3390	3610	106*	3.25	30	65.0-105

	Spiked Amount (µg/kg)	LCS Conc. (µg/kg)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	3125	4030	129	66.7-146
4-Chloro-3-methylphenol	3125	3470	111	49.4-117
2-Chlorophenol	3125	3200	102	51.5-110
1,4-Dichlorobenzene	3125	3370	98	51.1-100
2,4-Dinitrotoluene	3125	3550	114	51.1-120
N-Nitrosodi-n-propylamine	3125	3870	124	53.1-128
4-Nitrophenol	3125	3450	110	39.5-118
Pentachlorophenol	3125	2650	84.9	38.8-99.4
Phenol	3125	3300	105	51.2-116
Pyrene	3125	4740	131	38.0-132
1,2,4-Trichlorobenzene	3125	3330	106	55.1-111

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.
NA = Not applicable.

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	MW-1-2	102	103	125				0
02	LCS3187	107	105	128				0
03	PB3187	104	106	137				0
04	MW-1-7	103	100	131				0
05	G161-2055-2I MS	111	106	138				0
06	G161-2055-2J MSD	107	105	132				0
07	LCS3202	113	109	142				0
08	PB3202	109	114	134				0
09	G161-2047-7I MS	107	108	146				0
10	G161-2047-7J MSD	11	107	141				0
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	(44-147)

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

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

3D

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

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

Matrix Spike - EPA Sample No.: G161-2047-7H Level: (low/med) LOW

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	3330	3290	98.8	326	335	103	3.77	30	60.0-105
Hexachlorocyclopentadiene	BQL	3330	3840	115	326	418	128	10.4	30	10.0-233
Hexachloroethane	BQL	3330	3430	103	326	353	108	4.73	30	41.0-115
Indeno(1,2,3-c,d)pyrene	BQL	3330	4110	124 *	326	412	126 *	2.08	30	60.0-113
Isophorone	BQL	3330	4140	124	326	420	128 *	3.40	30	80.0-127
1-Methylnaphthalene	BQL	3330	3600	108	326	356	109	0.828	30	34.0-118
2-Methylnaphthalene	BQL	3330	3210	96.5	326	326	99.9	3.46	30	51.0-114
2-Methylphenol	BQL	3330	3180	95.5	326	317	97.0	1.56	30	10.0-142
4-Methylphenol	BQL	3330	5630	169 *	326	556	170 *	0.648	30	13.0-121
N-Nitrosodi-n-propylamine	BQL	3330	3840	115	326	401	123 *	6.38	30	70.0-119
Diphenylamine	BQL	3330	5060	152 *	326	505	155 *	1.63	30	13.0-107
Naphthalene	BQL	3330	3570	107 *	326	365	112 *	4.11	30	65.0-103
2-Nitroaniline	BQL	3330	3730	112	326	370	113	1.06	30	49.0-124
3-Nitroaniline	BQL	3330	7610	229	326	790	242	5.57	30	10.0-331
4-Nitroaniline	BQL	3330	3170	95.2	326	277	85.0	11.3	30	17.0-159
Nitrobenzene	BQL	3330	3670	110	326	370	114 *	2.86	30	54.0-113
2-Nitrophenol	BQL	3330	3190	95.9	326	330	101	5.38	30	10.0-150
4-Nitrophenol	BQL	3330	3580	108	326	391	120	10.6	30	40.0-147
Pentachlorophenol	BQL	3330	2580	77.6	326	265	81.1	4.41	30	40.0-122
Phenanthrene	BQL	3330	3510	106	326	352	108 *	1.97	30	68.0-107
Phenol	BQL	3330	3420	103	326	345	106	2.59	30	40.0-127
Pyrene	BQL	3330	5230	157 *	326	507	155 *	1.15	30	56.0-123
1,2,4-Trichlorobenzene	BQL	3330	3380	102	326	350	107 *	5.56	30	65.0-105
2,4,5-Trichlorophenol	BQL	3330	3560	107	326	349	107	0.0936	30	42.0-126
2,4,6-Trichlorophenol	BQL	3330	3310	99.5	326	324	99.3	0.201	30	21.0-132

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: 56 out of 144 outside of limits

COMMENTS: _____

N.C. Certification #481 S.C. Certification #99029

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.: G161-2055-2H Level: (low/med) LOW

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	3490	3920	112 *	3390	3850	113 *	0.798	30	65.0-105
Acenaphthylene	BQL	3490	4430	127	3390	4380	129	1.56	30	79.0-141
Anthracene	BQL	3490	4020	115 *	3390	3920	115 *	0.0867	30	58.0-111
Benzo[a]anthracene	BQL	3490	4160	119 *	3390	4160	123 *	2.89	30	60.0-109
Benzo[a]pyrene	BQL	3490	4650	133 *	3390	4650	137 *	2.74	30	63.0-121
Benzo[b]fluoranthene	BQL	3490	4280	122 *	3390	4200	124 *	0.975	30	60.0-109
Benzo[g,h,i]perylene	BQL	3490	4290	123	3390	4250	125	1.85	30	55.0-131
Benzo[k]fluoranthene	BQL	3490	4150	119	3390	4140	122 *	2.49	30	64.0-119
Benzoic Acid	BQL	3490	3070	88.0	3390	3010	88.6	0.680	30	10.0-122
Benzyl Alcohol	BQL	3490	3660	105	3390	3640	107	2.08	30	57.0-108
Bis(2-chloroethoxy)methane	BQL	3490	3810	109 *	3390	3770	111 *	1.82	30	63.0-109
Bis(2-chloroethyl)ether	BQL	3490	3710	106 *	3390	3380	99.5	6.70	30	60.0-100
Bis(2-chloroisopropyl)ether	BQL	3490	3770	108 *	3390	3880	114 *	5.49	30	66.0-107
Bis(2-ethylhexyl)phthalate	BQL	3490	4460	128 *	3390	4410	130 *	1.63	30	56.0-115
4-bromophenyl phenyl ether	BQL	3490	3760	108 *	3390	3680	108 *	0.463	30	63.0-106
Butylbenzylphthalate	BQL	3490	4700	135 *	3390	4560	134 *	0.446	30	62.0-119
4-Chloroaniline	BQL	3490	6220	178	3390	6110	180	0.949	30	10.0-205
4-Chloro-3-methylphenol	BQL	3490	3760	108	3390	3670	108	0.370	30	40.0-133
2-Chloronaphthalene	BQL	3490	3880	111 *	3390	3830	113 *	1.52	30	68.0-107
2-Chlorophenol	BQL	3490	3620	104	3390	3650	108	3.60	30	40.0-120
4-Chlorophenyl phenyl ether	BQL	3490	3780	108 *	3390	3710	109 *	0.735	30	67.0-106
Chrysene	BQL	3490	4050	116 *	3390	4110	121 *	4.30	30	66.0-109
Di-n-Butylphthalate	BQL	3490	3780	108 *	3390	3780	111 *	2.91	30	64.0-108
Di-n-octylphthalate	BQL	3490	4300	123 *	3390	4050	119	3.30	30	40.0-122
Dibenzo[a,h]anthracene	BQL	3490	4840	138 *	3390	4610	136 *	1.97	30	62.0-122
Dibenzofuran	BQL	3490	3540	102	3390	3490	103	1.27	30	56.0-108
1,2-Dichlorobenzene	BQL	3490	3760	108 *	3390	3880	114 *	6.13	30	63.0-103
1,3-Dichlorobenzene	BQL	3490	3720	106 *	3390	3870	114 *	6.80	30	60.0-105
1,4-Dichlorobenzene	BQL	3490	3660	105 *	3390	3900	115 *	9.00	30	56.0-95.0
3,3'-Dichlorobenzidine	BQL	3490	6110	175	3390	6490	191	8.90	30	10.0-236
2,4-Dichlorophenol	BQL	3490	3640	104	3390	3600	106	1.52	30	40.0-123
Diethylphthalate	BQL	3490	3850	110 *	3390	3760	111 *	0.542	30	63.0-107
2,4-Dimethylphenol	BQL	3490	3790	108	3390	3700	109	0.368	30	10.0-155
Dimethylphthalate	BQL	3490	3840	110	3390	3750	111	0.635	30	41.0-120
4,6-Dinitro-2-methylphenol	BQL	3490	3370	96.6	3390	3340	98.5	1.95	30	10.0-147
2,4-Dinitrophenol	BQL	3490	3420	98.1	3390	3410	100	2.32	30	10.0-149
2,4-Dinitrotoluene	BQL	3490	3950	113	3390	3890	114	1.23	30	48.0-121
2,6-Dinitrotoluene	BQL	3490	3880	111	3390	3840	113	1.69	30	52.0-116
Fluoranthene	BQL	3490	3620	104	3390	3650	107	3.50	30	67.0-108
Fluorene	BQL	3490	4020	115 *	3390	3900	115 *	0.261	30	66.0-103
Hexachlorobenzene	BQL	3490	3600	103	3390	3440	102	1.47	30	65.0-107

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: 58 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3D

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

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

Matrix Spike - EPA Sample No.: G161-2055-2H Level: (low/med) LOW

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	3490	3520	101	3390	3480	103	1.77	30	60.0-105
Hexachlorocyclopentadiene	BQL	3490	4420	127	3390	4320	127	0.551	30	10.0-233
Hexachloroethane	BQL	3490	3660	105	3390	3720	110	4.20	30	41.0-115
Indeno(1,2,3-c,d)pyrene	BQL	3490	4310	123 *	3390	4460	131 *	6.20	30	60.0-113
Isophorone	BQL	3490	4410	126	3390	4360	128 *	1.72	30	80.0-127
1-Methylnaphthalene	BQL	3490	3790	108	3390	3710	109	0.643	30	34.0-118
2-Methylnaphthalene	BQL	3490	3420	98.1	3390	3370	99.4	1.32	30	51.0-114
2-Methylphenol	BQL	3490	3730	107	3390	3790	112	4.40	30	10.0-142
4-Methylphenol	BQL	3490	6320	181 *	3390	6520	192 *	5.89	30	13.0-121
N-Nitrosodi-n-propylamine	BQL	3490	4200	120 *	3390	4320	127 *	5.73	30	70.0-119
Diphenylamine	BQL	3490	5540	158 *	3390	5400	159 *	0.378	30	13.0-107
Naphthalene	BQL	3490	3820	110 *	3390	3750	111 *	0.100	30	65.0-103
2-Nitroaniline	BQL	3490	3990	114	3390	3940	116	1.48	30	49.0-124
3-Nitroaniline	BQL	3490	8700	249	3390	9140	269	7.68	30	10.0-331
4-Nitroaniline	BQL	3490	3390	97.0	3390	3480	103	5.61	30	17.0-159
Nitrobenzene	BQL	3490	3890	111	3390	3870	114 *	2.22	30	54.0-113
2-Nitrophenol	BQL	3490	3460	99.0	3390	3350	98.7	0.303	30	10.0-150
4-Nitrophenol	BQL	3490	3890	111	3390	3720	110	1.72	30	40.0-147
Pentachlorophenol	BQL	3490	2800	80.2	3390	2850	83.9	4.51	30	40.0-122
Phenanthrene	BQL	3490	3690	106	3390	3600	106	0.0945	30	68.0-107
Phenol	BQL	3490	3800	109	3390	3820	113	3.43	30	40.0-127
Pyrene	BQL	3490	5290	152 *	3390	5160	152 *	0.395	30	56.0-123
1,2,4-Trichlorobenzene	BQL	3490	3590	103	3390	3610	106 *	3.25	30	65.0-105
2,4,5-Trichlorophenol	BQL	3490	3730	107	3390	3670	108	1.12	30	42.0-126
2,4,6-Trichlorophenol	BQL	3490	3520	101	3390	3460	102	1.18	30	21.0-132

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: 58 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3187

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab File ID: 0708607.D Lab Sample ID: PB3187

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

Matrix: (soil/water) SOIL Date Analyzed: 07/08/05

Level: (low/med) LOW Time Analyzed: 17:19

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G161-2047-7H	G161-2047-7H	0708617.D	07/08 23:08
02	G161-2047-7I MS	G161-2047-7I MS	0711613.D	07/11 21:10
03	G161-2047-7J MSD	G161-2047-7J MSD	0711614.D	07/11 21:45
04	MW-1-2	G161-2055-1G	0711622.D	07/12 02:23
05				
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COMMENTS:

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3202

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab File ID: 0711615.D Lab Sample ID: PB3202

Instrument ID: MSD6 Date Extracted: 07/11/05

Matrix: (soil/water) SOIL Date Analyzed: 07/11/05

Level: (low/med) LOW Time Analyzed: 22:19

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW-1-7	G161-2055-2H	0711616.D	07/11 22:55
02	G161-2055-2I MS	G161-2055-2I MS	0711617.D	07/11 23:30
03	G161-2055-2J MSD	G161-2055-2J MSD	0711618.D	07/12 00:05
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COMMENTS: _____

N.C. Certification #481 S.C. Certification #99029

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: 0627601.D DFTPP Injection Date: 06/27/05

Instrument ID: MSD6 DFTPP Injection Time: 16:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.6
68	Less than 2.0% of mass 69	0.5
69	Mass 69 relative abundance	51.9
70	Less than 2.0% of mass 69	0.5
127	40.0 - 60.0% of mass 198	51.4
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	7.1
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 0.75% of mass 198	2.3
441	Present, but less than mass 443	83.6
442	40.0 - 100.0% of mass 198	54.6
443	17.0 - 23.0% of mass 442	19.4

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	0627602.D	06/27/05	17:02
02	SVCAL2	SVCAL2	0627603.D	06/27/05	17:36
03	SVCAL4	SVCAL4	0627604.D	06/27/05	18:11
04	SVCAL6	SVCAL6	0627605.D	06/27/05	18:44
05	SVCAL8	SVCAL8	0627606.D	06/27/05	19:19
06	SVCAL12	SVCAL12	0627607.D	06/27/05	19:54
07	SVCAL24	SVCAL24	0627608.D	06/27/05	20:29
08	SVCAL48	SVCAL48	0627609.D	06/27/05	21:03
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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: 0711601.D DFTPP Injection Date: 07/11/05

Instrument ID: MSD6 DFTPP Injection Time: 14:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.2
68	Less than 2.0% of mass 69	0.4
69	Mass 69 relative abundance	50.1
70	Less than 2.0% of mass 69	0.4
127	40.0 - 60.0% of mass 198	49.6
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	6.5
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 0.75% of mass 198	2.7
441	Present, but less than mass 443	85.3
442	40.0 - 100.0% of mass 198	52.6
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	SVCVS6	SVCVS6	0711602.D	07/11/05	14:54
02	G161-2047-7I MS	G161-2047-7I MS	0711613.D	07/11/05	21:10
03	G161-2047-7J MSD	G161-2047-7J MSD	0711614.D	07/11/05	21:45
04	PB3202	PB3202	0711615.D	07/11/05	22:19
05	MW-1-7	G161-2055-2H	0711616.D	07/11/05	22:55
06	MW-1-7	G161-2055-2H	0711616.D	07/11/05	22:55
07	G161-2055-2I MS	G161-2055-2I MS	0711617.D	07/11/05	23:30
08	G161-2055-2J MSD	G161-2055-2J MSD	0711618.D	07/12/05	00:05
09	LCS3202	LCS3202	0711619.D	07/12/05	00:40
10	MW-1-2	G161-2055-1G	0711622.D	07/12/05	02:23
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PARADIGM ANALYTICAL LABORATORIES, INC.

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: 0708601.D DFTPP Injection Date: 07/08/05

Instrument ID: MSD6 DFTPP Injection Time: 14:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.4
69	Mass 69 relative abundance	51.4
70	Less than 2.0% of mass 69	0.6
127	40.0 - 60.0% of mass 198	50.1
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	20.5
365	Greater than 0.75% of mass 198	2.1
441	Present, but less than mass 443	88.5
442	40.0 - 100.0% of mass 198	51.0
443	17.0 - 23.0% of mass 442	18.2

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	SVCVS6	SVCVS6	0708602.D	07/08/05	14:29
02	LCS3187	LCS3187	0708606.D	07/08/05	16:46
03	PB3187	PB3187	0708607.D	07/08/05	17:19
04	G161-2047-7H	G161-2047-7H	0708617.D	07/08/05	23:08
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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): 06/27/05

Calibration Times: 21:03

LAB FILE ID: RRF1.0 = 0627602.D RRF2.0 = 0627603.D RRF4.0 = 0627604.D RRF6.0 = 0627605.D

RRF8.0 = 0627606.D RRF12.0 = 0627607.D RRF24.0 = 0627608.D RRF48.0 = 0627609.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		0.390	0.574	0.872	0.784	1.02	0.945	0.905	0.785	28.8
N-Nitrosodimethylamine	0.633	0.688	0.665	0.697	0.666	0.670	0.687	0.635	0.668	3.55
Phenol	1.91	1.84	1.84	1.89	1.73	1.79	1.74	1.64	1.80	5.01
Bis(2-chloroethyl)ether	1.41	1.36	1.42	1.43	1.37	1.50	1.42	1.27	1.40	4.76
2-Chlorophenol	1.36	1.33	1.33	1.36	1.27	1.35	1.31	1.26	1.32	2.89
Benzyl Alcohol	0.855	0.906	0.915	0.967	0.902	0.963	0.939	0.909	0.919	3.96
1,3-Dichlorobenzene	1.38	1.32	1.34	1.38	1.25	1.30	1.25	1.21	1.31	4.89
1,4-Dichlorobenzene	1.40	1.37	1.38	1.39	1.29	1.34	1.32	1.25	1.34	3.98
1,2-Dichlorobenzene	1.27	1.23	1.24	1.29	1.17	1.21	1.16	1.11	1.21	4.88
2-Methylphenol	1.13	1.10	1.09	1.14	1.06	1.13	1.09	1.04	1.10	3.34
3-, 4-Methylphenol	1.62	1.56	1.58	1.68	1.53	1.62	1.58	1.55	1.59	2.94
Bis(2-chloroisopropyl)ether	1.72	1.66	1.67	1.70	1.58	1.65	1.62	1.54	1.64	3.69
N-Nitrosodi-n-propylamine	0.855	0.822	0.825	0.865	0.814	0.853	0.837	0.798	0.834	2.77
Hexachloroethane	0.516	0.529	0.532	0.561	0.513	0.545	0.532	0.516	0.531	3.05
2-Fluorophenol (surr)	0.956	0.989	1.04	1.03	1.02	1.06	1.03	1.00	1.02	3.23
Phenol-d6 (surr)	1.64	1.62	1.59	1.64	1.52	1.60	1.57	1.51	1.59	3.30
Nitrobenzene	0.397	0.406	0.392	0.409	0.383	0.408	0.387	0.371	0.394	3.42
Isophorone	0.597	0.581	0.574	0.608	0.569	0.603	0.575	0.547	0.582	3.48
2-Nitrophenol	0.182	0.225	0.186	0.185	0.176	0.179	0.170	0.162	0.183	10.2
2,4-Dimethylphenol	0.270	0.276	0.256	0.274	0.257	0.268	0.252	0.245	0.262	4.32
Benzoic Acid		0.133	0.152	0.178	0.176	0.199	0.200	0.204	0.177	15.1
Bis(2-chloroethoxy)methane	0.393	0.414	0.385	0.396	0.376	0.391	0.369	0.354	0.385	4.74
2,4-Dichlorophenol	0.255	0.273	0.266	0.279	0.261	0.277	0.261	0.250	0.265	3.93
1,2,4-Trichlorobenzene	0.299	0.294	0.279	0.290	0.271	0.284	0.267	0.255	0.280	5.27
Naphthalene	0.921	0.896	0.883	0.910	0.847	0.877	0.833	0.805	0.872	4.60
4-Chloroaniline	0.195	0.174	0.126	0.137	0.119	0.113	0.163	0.154	0.148	19.6
Hexachlorobutadiene	0.182	0.186	0.176	0.187	0.171	0.182	0.171	0.161	0.177	4.96
4-Chloro-3-methylphenol	0.278	0.307	0.307	0.332	0.318	0.331	0.320	0.312	0.313	5.48
2-Methylnaphthalene	0.644	0.658	0.624	0.645	0.603	0.622	0.597	0.584	0.622	4.16
Nitrobenzene-d5 (surr)	0.137	0.150	0.145	0.149	0.138	0.144	0.138	0.132	0.142	4.51
Hexachlorocyclopentadiene	0.104	0.114	0.128	0.153	0.155	0.156	0.148	0.173	0.141	16.8
2,4,6-Trichlorophenol	0.336	0.352	0.359	0.381	0.348	0.354	0.356	0.350	0.354	3.61
2,4,5-Trichlorophenol	0.348	0.362	0.373	0.389	0.370	0.383	0.364	0.363	0.369	3.45
2-Chloronaphthalene	1.02	1.02	1.01	1.03	0.961	0.981	0.936	0.933	0.986	4.00
2-Nitroaniline	0.332	0.350	0.368	0.396	0.356	0.372	0.374	0.362	0.364	5.23

N.C. Certification #481 S.C. Certification #99029

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): 06/27/05

Calibration Times: 21:03

LAB FILE ID: RRF1.0 = 0627602.D RRF2.0 = 0627603.D RRF4.0 = 0627604.D RRF6.0 = 0627605.D

RRF8.0 = 0627606.D RRF12.0 = 0627607.D RRF24.0 = 0627608.D RRF48.0 = 0627609.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	0.120	0.126	0.091	0.096			0.083		0.103	18.4
1-Methylnaphthalene	1.02	1.02	0.999	1.03	0.939	0.968	0.930	0.941	0.981	4.18
Dimethylphthalate	1.22	1.19	1.17	1.24	1.13	1.15	1.13	1.10	1.17	3.92
Acenaphthylene	1.40	1.37	1.35	1.39	1.29	1.30	1.16	1.02	1.28	10.1
2,6-Dinitrotoluene	0.253	0.253	0.260	0.278	0.254	0.258	0.254	0.248	0.257	3.51
Acenaphthene	0.911	0.912	0.892	0.924	0.851	0.872	0.849	0.852	0.883	3.49
2,4-Dinitrophenol	0.140	0.139	0.138	0.154	0.149	0.161	0.153	0.159	0.149	6.10
4-Nitrophenol	0.131	0.151	0.154	0.173	0.172	0.187	0.183	0.192	0.168	12.5
Dibenzofuran	1.48	1.49	1.44	1.49	1.39	1.41	1.36	1.37	1.43	3.69
2,4-Dinitrotoluene	0.328	0.331	0.327	0.337	0.319	0.325	0.315	0.315	0.325	2.41
Fluorene	1.10	1.08	1.07	1.12	1.04	1.04	1.02	1.04	1.06	3.33
Diethylphthalate	1.11	1.09	1.09	1.12	1.04	1.08	1.05	1.04	1.08	2.92
4-Chlorophenyl phenyl ether	0.589	0.577	0.561	0.573	0.530	0.536	0.516	0.513	0.549	5.33
4-Nitroaniline	0.127	0.129	0.165	0.144	0.140	0.128			0.139	10.6
2-Fluorobiphenyl (surr)	1.20	1.16	1.16	1.17	1.07	1.10	1.06	1.05	1.12	4.99
2,4,6-Tribromophenol (surr)	0.102	0.105	0.115	0.123	0.121	0.123	0.122	0.126	0.117	7.49
4,6-Dinitro-2-methylphenol	0.131	0.133	0.144	0.162	0.147	0.155	0.146	0.144	0.145	6.98
Diphenylamine	0.473	0.454	0.431	0.432	0.373	0.338			0.417	12.2
4-bromophenyl phenyl ether	0.210	0.211	0.214	0.220	0.196	0.201	0.190	0.184	0.203	6.19
Hexachlorobenzene	0.225	0.212	0.209	0.209	0.190	0.189	0.184	0.179	0.200	8.13
Pentachlorophenol	0.127	0.138	0.146	0.154	0.152	0.156	0.151	0.150	0.147	6.52
Phenanthrene	1.07	1.02	1.02	1.04	0.963	0.982	0.929	0.890	0.990	6.16
Carbazole	0.786	0.830	0.731	0.639	0.642				0.725	11.8
Anthracene	0.984	0.947	0.959	0.969	0.918	0.925	0.846	0.837	0.923	5.94
Azobenzene	0.946	0.893	0.905	0.917	0.837	0.872	0.824	0.790	0.873	6.00
Di-n-Butylphthalate	1.23	1.23	1.23	1.27	1.15	1.18	1.14	1.06	1.19	5.67
Fluoranthene	1.08	1.09	1.06	1.11	1.02	1.05	0.986	0.941	1.04	5.46
alpha-BHC	0.171	0.166	0.163	0.171	0.155	0.157	0.146	0.132	0.158	8.45
beta-BHC	0.132	0.132	0.140	0.141	0.129	0.131	0.130	0.118	0.132	5.36
gamma-BHC	0.146	0.138	0.139	0.142	0.132	0.136	0.126	0.118	0.135	6.67
delta-BHC	0.149	0.129	0.128	0.134	0.122	0.126	0.121	0.110	0.128	8.74
Heptachlor	0.143	0.154	0.153	0.158	0.151	0.154	0.147	0.139	0.150	4.28
Aldrin	0.182	0.179	0.179	0.189	0.169	0.174	0.165	0.148	0.173	7.34
Heptachlor Epoxide	0.051	0.054	0.054	0.057	0.052	0.051	0.05	0.049	0.052	4.63
Endosulfan I	0.04	0.047	0.049	0.046	0.044	0.045	0.041	0.035	0.043	10.5

N.C. Certification #481 S.C. Certification #99029

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): 06/27/05

Calibration Times: 21:03

LAB FILE ID: RRF1.0 = 0627602.D RRF2.0 = 0627603.D RRF4.0 = 0627604.D RRF6.0 = 0627605.D

RRF8.0 = 0627606.D RRF12.0 = 0627607.D RRF24.0 = 0627608.D RRF48.0 = 0627609.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	0.253	0.253	0.252	0.260	0.243	0.245	0.234	0.216	0.245	5.74
Dieldrin	0.245	0.232	0.235	0.233	0.216	0.221	0.208	0.191	0.223	7.86
Endrin	0.033	0.038	0.039	0.042	0.039	0.042	0.039	0.036	0.038	7.96
4,4'-DDD	0.448	0.435	0.425	0.438	0.403	0.402	0.383	0.346	0.410	8.27
Endosulfan Sulfate	0.054	0.058	0.056	0.059	0.053	0.052	0.046		0.054	7.98
4,4'-DDT	0.339	0.324	0.330	0.344	0.324	0.323	0.302	0.259	0.318	8.46
Endrin Ketone	0.034	0.042	0.043	0.045	0.04	0.043	0.039	0.033	0.04	11.3
Methoxychlor	0.609	0.648	0.655	0.719	0.646	0.656	0.591	0.482	0.626	11.1
Pyrene	1.62	1.57	1.46	1.47	1.35	1.44	1.46	1.62	1.50	6.46
Butylbenzylphthalate	0.676	0.736	0.715	0.713	0.665	0.720	0.726	0.721	0.709	3.50
Benzo[a]anthracene	1.10	1.06	1.11	1.12	1.02	1.10	1.06	1.06	1.08	3.11
3,3'-Dichlorobenzidine	0.129	0.096	0.102	0.115	0.114	0.145	0.160	0.187	0.131	23.9
Chrysene	1.12	1.07	1.07	1.08	0.995	1.07	1.02	1.02	1.05	3.96
Bis(2-ethylhexyl)phthalate	0.905	0.940	0.948	0.947	0.845	0.935	0.912	0.910	0.918	3.69
4-Terphenyl-d14 (surr)	1.04	1.03	0.969	0.985	0.912	0.979	0.977	1.11	1.00	5.86
Di-n-octylphthalate	1.66	1.98	2.05	2.12	2.17	2.58	2.53	2.31	2.18	13.8
Benzo[b]fluoranthene	1.00	1.04	1.19	1.25	1.23	1.34	1.40	1.24	1.21	11.2
Benzo[k]fluoranthene	1.28	1.46	1.32	1.43	1.40	1.44	1.37	1.18	1.36	6.93
Benzo[a]pyrene	0.756	0.819	0.959	0.977	0.977	1.08	1.09	1.02	0.961	12.4
Indeno(1,2,3-c,d)pyrene	0.227	0.216	0.307	0.407	0.377	0.461	0.584	0.693	0.409	40.9
Dibenzo[a,h]anthracene	0.078	0.221	0.344	0.427	0.423	0.505	0.555	0.640	0.399	45.6
Benzo[g,h,i]perylene	0.362	0.481	0.577	0.602	0.564	0.626	0.650	0.707	0.571	18.8

N.C. Certification #481 S.C. Certification #99029

PARADIGM ANALYTICAL LABORATORIES, INC.

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: 07/08/05 Time: 14:29

Lab File ID: 0708602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.280	0.282		-0.7	
1,2-Dichlorobenzene	1.21	1.272		-5.1	
1,3-Dichlorobenzene	1.31	1.363		-4.4	
1,4-Dichlorobenzene	1.34	1.403		-4.6	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.981	1.035		-5.5	
2,4,5-Trichlorophenol	0.369	0.408		-10.6	
2,4,6-Trichlorophenol	0.354	0.370		-4.5	20.0
2,4-Dichlorophenol	0.265	0.280		-5.7	20.0
2,4-Dimethylphenol	0.262	0.265		-1.1	
2,4-Dinitrophenol	0.149	0.155	0.050	-4.0	
2,4-Dinitrotoluene	0.325	0.342		-5.2	
2,6-Dinitrotoluene	0.257	0.269		-4.7	
2-Chloronaphthalene	0.986	1.046		-6.1	
2-Chlorophenol	1.32	1.370		-3.6	
2-Methylnaphthalene	0.622	0.655		-5.3	
2-Methylphenol	1.10	1.125		-2.6	
2-Nitroaniline	0.364	0.386		-6.0	
2-Nitrophenol	0.183	0.180		1.6	20.0
3-, 4-Methylphenol	1.59	1.647		-3.6	
3-Nitroaniline	0.103	0.047#		54.4	
4,6-Dinitro-2-methylphenol	0.145	0.135		6.9	
4-bromophenyl phenyl ether	0.203	0.213		-4.9	
4-Chloro-3-methylphenol	0.313	0.347		-10.9	20.0
4-Chloroaniline	0.148	0.113		23.6	
4-Chlorophenyl phenyl ether	0.549	0.570		-3.8	
4-Nitroaniline	0.139	0.136		2.2	
4-Nitrophenol	0.168	0.183	0.050	-8.9	
Acenaphthene	0.883	0.925		-4.8	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.28	1.399		-9.0	
Aldrin	0.173	0.161		6.9	
alpha-BHC	0.158	0.153		3.2	
Anthracene	0.923	0.987		-6.9	
Benzoic Acid	0.177	0.180		-1.7	
Benzo[a]anthracene	1.08	1.115		-3.2	
Benzo[a]pyrene	0.961	1.127		-17.3	20.0
Benzo[b]fluoranthene	1.21	1.339		-10.5	
Benzo[k]fluoranthene	1.36	1.511		-11.0	
Benzyl Alcohol	0.919	0.969		-5.4	

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: 07/08/05 Time: 14:29

Lab File ID: 0708602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.132	0.124		6.1	
Bis(2-chloroethoxy)methane	0.385	0.398		-3.4	
Bis(2-chloroethyl)ether	1.397	1.540		-10.2	
Bis(2-chloroisopropyl)ether	1.644	1.748		-6.3	
Bis(2-ethylhexyl)phthalate	0.918	0.983		-7.1	
Butylbenzylphthalate	0.709	0.805		-13.5	
Carbazole	0.725	0.340		53.1	
Chrysene	1.055	1.084		-2.7	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.128	0.123		3.9	
Di-n-Butylphthalate	1.189	1.181		0.7	
Di-n-octylphthalate	2.178	2.542		-16.7	20.0
Dibenzofuran	1.431	1.521		-6.3	
Dibenzo[a,h]anthracene	0.399	0.693		-73.7	
Dieldrin	0.223	0.197		11.7	
Diethylphthalate	1.079	1.090		-1.0	
Dimethylphthalate	1.167	1.234		-5.7	
Diphenylamine	0.417	0.380		8.9	
Endosulfan I	0.043	0.043#		0.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.054	0.046#		14.8	
Endrin	0.038	0.037#		2.6	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.040	0.032#		20.0	
Fluoranthene	1.042	1.063		-2.0	20.0
Fluorene	1.063	1.137		-7.0	
gamma-BHC	0.135	0.130		3.7	
Heptachlor	0.150	0.147		2.0	
Heptachlor Epoxide	0.052	0.051		1.9	
Hexachlorobenzene	0.200	0.192		4.0	
Hexachlorobutadiene	0.177	0.181		-2.3	20.0
Hexachlorocyclopentadiene	0.141	0.136	0.050	3.5	
Hexachloroethane	0.531	0.545		-2.6	
Indeno(1,2,3-c,d)pyrene	0.409	0.670		-63.8	
Isophorone	0.582	0.583		-0.2	
Methoxychlor	0.626	0.565		9.7	
N-Nitrosodi-n-propylamine	0.834	0.862		-3.4	
N-Nitrosodimethylamine	0.668	0.751		-12.4	
Naphthalene	0.872	0.905		-3.8	
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: 07/08/05 Time: 14:29

Lab File ID: 0708602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.394	0.414		-5.1	
Pentachlorophenol	0.147	0.140		4.8	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.990	1.026		-3.6	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.797	1.929		-7.3	20.0
Pyrene	1.500	1.822		-21.5	
Pyridine	0.785	0.804		-2.4	
2,4,6-Tribromophenol	0.117	0.127		-8.5	
2-Fluorobiphenyl	1.12	1.163		-3.7	
2-Fluorophenol	1.02	1.048		-3.0	
4-Terphenyl-d14	1.00	1.226		-22.6	
Nitrobenzene-d5	0.142	0.150		-5.6	
Phenol-d6	1.59	1.700		-7.1	

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: 07/11/05 Time: 14:54

Lab File ID: 0711602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.280	0.282		-0.7	
1,2-Dichlorobenzene	1.21	1.231		-1.7	
1,3-Dichlorobenzene	1.31	1.347		-3.1	
1,4-Dichlorobenzene	1.34	1.387		-3.4	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	0.981	1.019		-3.9	
2,4,5-Trichlorophenol	0.369	0.402		-8.9	
2,4,6-Trichlorophenol	0.354	0.372		-5.1	20.0
2,4-Dichlorophenol	0.265	0.283		-6.8	20.0
2,4-Dimethylphenol	0.262	0.268		-2.3	
2,4-Dinitrophenol	0.149	0.149	0.050	0.0	
2,4-Dinitrotoluene	0.325	0.331		-1.8	
2,6-Dinitrotoluene	0.257	0.267		-3.9	
2-Chloronaphthalene	0.986	1.028		-4.3	
2-Chlorophenol	1.32	1.338		-1.2	
2-Methylnaphthalene	0.622	0.651		-4.7	
2-Methylphenol	1.10	1.153		-5.1	
2-Nitroaniline	0.364	0.383		-5.2	
2-Nitrophenol	0.183	0.180		1.6	20.0
3-, 4-Methylphenol	1.59	1.649		-3.7	
3-Nitroaniline	0.103	0.051		50.5	
4,6-Dinitro-2-methylphenol	0.145	0.138		4.8	
4-bromophenyl phenyl ether	0.203	0.209		-3.0	
4-Chloro-3-methylphenol	0.313	0.334		-6.7	20.0
4-Chloroaniline	0.148	0.139		6.1	
4-Chlorophenyl phenyl ether	0.549	0.562		-2.4	
4-Nitroaniline	0.139	0.124		10.8	
4-Nitrophenol	0.168	0.164	0.050	2.4	
Acenaphthene	0.883	0.909		-2.9	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.28	1.383		-7.7	
Aldrin	0.173	0.165		4.6	
alpha-BHC	0.158	0.151		4.4	
Anthracene	0.923	0.986		-6.8	
Benzoic Acid	0.177	0.183		-3.4	
Benzo[a]anthracene	1.08	1.118		-3.5	
Benzo[a]pyrene	0.961	1.133		-17.9	20.0
Benzo[b]fluoranthene	1.21	1.340		-10.6	
Benzo[k]fluoranthene	1.36	1.469		-7.9	
Benzyl Alcohol	0.919	0.976		-6.2	

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: MSD6 Calibration Date: 07/11/05 Time: 14:54

Lab File ID: 0711602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
beta-BHC	0.132	0.128		3.0	
Bis(2-chloroethoxy)methane	0.385	0.398		-3.4	
Bis(2-chloroethyl)ether	1.397	1.511		-8.2	
Bis(2-chloroisopropyl)ether	1.644	1.692		-2.9	
Bis(2-ethylhexyl)phthalate	0.918	0.994		-8.3	
Butylbenzylphthalate	0.709	0.812		-14.5	
Carbazole	0.725	0.452		37.7	
Chrysene	1.055	1.096		-3.9	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.128	0.119		7.0	
Di-n-Butylphthalate	1.189	1.192		-0.3	
Di-n-octylphthalate	2.178	2.384		-9.5	20.0
Dibenzofuran	1.431	1.506		-5.2	
Dibenzo[a,h]anthracene	0.399	0.751		-88.2	
Dieldrin	0.223	0.205		8.1	
Diethylphthalate	1.079	1.066		1.2	
Dimethylphthalate	1.167	1.219		-4.5	
Diphenylamine	0.417	0.401		3.8	
Endosulfan I	0.043	0.043#		0.0	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.054	0.045#		16.7	
Endrin	0.038	0.038#		0.0	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.040	0.030#		25.0	
Fluoranthene	1.042	1.051		-0.9	20.0
Fluorene	1.063	1.118		-5.2	
gamma-BHC	0.135	0.131		3.0	
Heptachlor	0.150	0.148		1.3	
Heptachlor Epoxide	0.052	0.051		1.9	
Hexachlorobenzene	0.200	0.190		5.0	
Hexachlorobutadiene	0.177	0.175		1.1	20.0
Hexachlorocyclopentadiene	0.141	0.112	0.050	20.6	
Hexachloroethane	0.531	0.525		1.1	
Indeno(1,2,3-c,d)pyrene	0.409	0.703		-71.9	
Isophorone	0.582	0.569		2.2	
Methoxychlor	0.626	0.529		15.5	
N-Nitrosodi-n-propylamine	0.834	0.842		-1.0	
N-Nitrosodimethylamine	0.668	0.745		-11.5	
Naphthalene	0.872	0.905		-3.8	
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: 07/11/05 Time: 14:54

Lab File ID: 0711602.D Init. Calib. Date: 06/27/05

EPA Sample No.: SVCVS6 Init. Calib. Time: 21:03

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

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Nitrobenzene	0.394	0.415		-5.3	
Pentachlorophenol	0.147	0.138		6.1	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	0.990	1.031		-4.1	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.797	1.898		-5.6	20.0
Pyrene	1.500	1.851		-23.4	
Pyridine	0.785	0.962		-22.5	
2,4,6-Tribromophenol	0.117	0.122		-4.3	
2-Fluorobiphenyl	1.12	1.166		-4.0	
2-Fluorophenol	1.02	1.006		1.1	
4-Terphenyl-d14	1.00	1.222		-22.2	
Nitrobenzene-d5	0.142	0.149		-4.9	
Phenol-d6	1.59	1.669		-5.2	

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: 07/08/05

Lab File ID (Standard): 0708602.D Time Analyzed: 14:29

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	190008	7.17	759114	9.1	431689	11.88
	UPPER LIMIT	380016	7.67	1518228	9.6	863378	12.38
	LOWER LIMIT	95004	6.67	379557	8.6	215845	11.38
	EPA SAMPLE						
01	G161-2047-7H	161883	7.18	634514	9.1	356017	11.88
02	LCS3187	168686	7.18	688025	9.1	389033	11.89
03	PB3187	185462	7.17	739147	9.1	403400	11.88
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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: 07/08/05
Lab File ID (Standard): 0708602.D Time Analyzed: 14:29
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	656771	14.26	372494	18.51	200806	20.85
	UPPER LIMIT	1313542	14.76	744988	19.01	401612	21.35
	LOWER LIMIT	328386	13.76	186247	18.01	100403	20.35
	EPA SAMPLE						
01	G161-2047-7H	542635	14.27	261433	18.51	141467	20.86
02	LCS3187	597715	14.27	318087	18.52	169938	20.86
03	PB3187	602979	14.27	278646	18.51	141104	20.85
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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.

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: 07/11/05

Lab File ID (Standard): 0711602.D Time Analyzed: 14:54

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	186966	7.17	743462	9.09	421758	11.88
	UPPER LIMIT	373932	7.67	1486924	9.59	843516	12.38
	LOWER LIMIT	93483	6.67	371731	8.59	210879	11.38
	EPA SAMPLE						
01	G161-2047-7I MS	145338	7.18	582595	9.1	321636	11.89
02	G161-2047-7J MSD	157992	7.18	634374	9.1	359063	11.89
03	MW-1-2	155013	7.18	601201	9.1	322461	11.89
04	MW-1-7	161867	7.17	635649	9.1	344112	11.89
05	G161-2055-2I MS	149013	7.18	599400	9.1	331490	11.89
06	G161-2055-2J MSD	145597	7.18	604487	9.1	336885	11.89
07	LCS3202	157162	7.18	620963	9.1	350406	11.89
08	PB3202	165313	7.18	649098	9.1	349660	11.88
09	MW-1-7	161867	7.17	635649	9.1	344112	11.89
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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: 07/11/05
Lab File ID (Standard): 0711602.D Time Analyzed: 14:54
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	626379	14.26	334233	18.51	198503	20.85
	UPPER LIMIT	1252758	14.76	668466	19.01	397006	21.35
	LOWER LIMIT	313190	13.76	167117	18.01	99252	20.35
	EPA SAMPLE						
01	G161-2047-7I MS	481252	14.27	222938	18.52	129570	20.86
02	G161-2047-7J MSD	529250	14.27	240887	18.51	141863	20.86
03	MW-1-2	453240	14.27	182019	18.52	115438	20.88
04	MW-1-7	519225	14.26	244193	18.52	143665	20.86
05	G161-2055-2I MS	497233	14.27	231806	18.52	131297	20.86
06	G161-2055-2J MSD	505728	14.27	243024	18.52	147337	20.86
07	LCS3202	515834	14.27	247806	18.52	149104	20.86
08	PB3202	515736	14.27	219703	18.51	122662	20.87
09	MW-1-7	519225	14.26	244193	18.52	143665	20.86
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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) SOIL — Lab Sample ID: LCS3187

Sample wt/vol: 32 (g) — Lab File ID: 0708606.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N — Date Analyzed: 07/08/05 16:46

Concentrated Extract Volume: 10 (mL) — 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	3300	106	48.9-117
208-96-8	Acenaphthylene	3125	3780	121	66.7-146
120-12-7	Anthracene	3125	3440	110	49.0-114
56-55-3	Benzo[a]anthracene	3125	3560	114	43.2-120
50-32-8	Benzo[a]pyrene	3125	4020	129*	54.1-122
205-99-2	Benzo[b]fluoranthene	3125	3800	121*	46.1-120
191-24-2	Benzo[g,h,i]perylene	3125	3540	113	51.2-119
207-08-9	Benzo[k]fluoranthene	3125	3540	113	55.8-124
65-85-0	Benzoic Acid	3125	2460	78.6*	10.0-68.7
100-51-6	Benzyl Alcohol	3125	3070	98.2	48.9-111
111-91-1	Bis(2-chloroethoxy)methane	3125	3240	104	55.0-113
111-44-4	Bis(2-chloroethyl)ether	3125	2890	92.6	50.9-106
108-60-1	Bis(2-chloroisopropyl)ether	3125	3220	103	46.6-126
117-81-7	Bis(2-ethylhexyl)phthalate	3125	3530	113	26.4-140
101-55-3	4-bromophenyl phenyl ether	3125	3230	103	50.2-112
85-68-7	Butylbenzylphthalate	3125	3810	122	35.7-136
106-47-8	4-Chloroaniline	3125	4190	134*	10.0-201
59-50-7	4-Chloro-3-methylphenol	3125	3320	106	49.4-117
91-58-7	2-Chloronaphthalene	3125	3300	106	52.2-118
95-57-8	2-Chlorophenol	3125	3090	99.0	51.5-110
7005-72-3	4-Chlorophenyl phenyl ether	3125	3290	105	48.4-120
218-01-9	Chrysene	3125	3560	114	49.7-121
84-74-2	Di-n-Butylphthalate	3125	3200	102	43.8-125
117-84-0	Di-n-octylphthalate	3125	3780	121	18.7-137
53-70-3	Dibenzo[a,h]anthracene	3125	4210	135*	49.4-116
132-64-9	Dibenzofuran	3125	3080	98.5	40.8-122
95-50-1	1,2-Dichlorobenzene	3125	3280	105	53.6-112
541-73-1	1,3-Dichlorobenzene	3125	3230	103	55.9-110
106-46-7	1,4-Dichlorobenzene	3125	3270	105*	51.1-100
91-94-1	3,3'-Dichlorobenzidine	3125	5300	169	34.0-189
120-83-2	2,4-Dichlorophenol	3125	3200	102	50.1-114
84-66-2	Diethylphthalate	3125	3410	109	50.4-116
105-67-9	2,4-Dimethylphenol	3125	3180	102	41.5-116
131-11-3	Dimethylphthalate	3125	3310	106	49.5-111
534-52-1	4,6-Dinitro-2-methylphenol	3125	2970	95.0	39.2-10.0
51-28-5	2,4-Dinitrophenol	3125	3060	98.0	12.2-100
121-14-2	2,4-Dinitrotoluene	3125	3490	112	51.1-120
606-20-2	2,6-Dinitrotoluene	3125	3420	109	51.7-116
206-44-0	Fluoranthene	3125	3190	102	49.8-120
86-73-7	Fluorene	3125	3410	109	46.3-120
118-74-1	Hexachlorobenzene	3125	3010	96.3	50.6-115

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: LCS3187

Sample wt/vol: 32 (g) — Lab File ID: 0708606.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N — Date Analyzed: 07/08/05 16:46

Concentrated Extract Volume: 10 (mL) — 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	3130	100	53.0-107
77-47-4	Hexachlorocyclopentadiene	3125	4570	146*	10.0-239
67-72-1	Hexachloroethane	3125	3260	104	53.6-112
193-39-5	Indeno(1,2,3-c,d)pyrene	3125	3820	122*	46.5-112
78-59-1	Isophorone	3125	3800	122	63.4-136
90-12-0	1-Methylnaphthalene	3125	3230	104	27.5-125
91-57-6	2-Methylnaphthalene	3125	2990	95.6	44.3-117
95-48-7	2-Methylphenol	3125	3200	102	50.4-114
108-39-4	4-Methylphenol	6250	5560	88.9	39.0-107
621-64-7	N-Nitrosodi-n-propylamine	3125	3670	117	53.1-128
86-30-6	Diphenylamine	3125	4470	143*	29.2-102
91-20-3	Naphthalene	3125	3250	104	53.3-112
88-74-4	2-Nitroaniline	3125	3320	106	39.6-132
99-09-2	3-Nitroaniline	3125	6510	208*	10.0-368
100-01-6	4-Nitroaniline	3125	3010	96.2	35.5-146
98-95-3	Nitrobenzene	3125	3280	105	53.2-111
88-75-5	2-Nitrophenol	3125	2960	94.9	48.3-110
100-02-7	4-Nitrophenol	3125	3850	123*	39.5-118
87-86-5	Pentachlorophenol	3125	2520	80.8	38.8-99.4
85-01-8	Phenanthrene	3125	3110	99.4	46.5-124
108-95-2	Phenol	3125	3130	100	51.2-116
129-00-0	Pyrene	3125	4220	135*	38.0-132
120-82-1	1,2,4-Trichlorobenzene	3125	3170	102	55.1-111
95-95-4	2,4,5-Trichlorophenol	3125	3320	106	47.4-117
88-06-2	2,4,6-Trichlorophenol	3125	3170	102	47.4-114

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: LCS3202
Sample wt/vol: 32 (g) Lab File ID: 0711619.D
Level: (low/med) LOW
% Moisture: 0% Decanted:(Y/N) N Date Analyzed: 07/12/05 00:40
Concentrated Extract Volume: 10 (mL) 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	3580	114	48.9-117
208-96-8	Acenaphthylene	3125	4030	129	66.7-146
120-12-7	Anthracene	3125	3770	120*	49.0-114
56-55-3	Benzo[a]anthracene	3125	3830	122*	43.2-120
50-32-8	Benzo[a]pyrene	3125	4400	141*	54.1-122
205-99-2	Benzo[b]fluoranthene	3125	3820	122*	46.1-120
191-24-2	Benzo[g,h,i]perylene	3125	4130	132*	51.2-119
207-08-9	Benzo[k]fluoranthene	3125	3840	123	55.8-124
65-85-0	Benzoic Acid	3125	1930	61.9*	10.0-68.7
100-51-6	Benzyl Alcohol	3125	3250	104	48.9-111
111-91-1	Bis(2-chloroethoxy)methane	3125	3500	112	55.0-113
111-44-4	Bis(2-chloroethyl)ether	3125	2950	94.3	50.9-106
108-60-1	Bis(2-chloroisopropyl)ether	3125	3430	110	46.6-126
117-81-7	Bis(2-ethylhexyl)phthalate	3125	3960	127	26.4-140
101-55-3	4-bromophenyl phenyl ether	3125	3530	113*	50.2-112
85-68-7	Butylbenzylphthalate	3125	4210	135	35.7-136
106-47-8	4-Chloroaniline	3125	5150	165*	10.0-201
59-50-7	4-Chloro-3-methylphenol	3125	3470	111	49.4-117
91-58-7	2-Chloronaphthalene	3125	3500	112	52.2-118
95-57-8	2-Chlorophenol	3125	3200	102	51.5-110
7005-72-3	4-Chlorophenyl phenyl ether	3125	3470	111	48.4-120
218-01-9	Chrysene	3125	3720	119	49.7-121
84-74-2	Di-n-Butylphthalate	3125	3530	113	43.8-125
117-84-0	Di-n-octylphthalate	3125	3680	118	18.7-137
53-70-3	Dibenzo[a,h]anthracene	3125	4460	143*	49.4-116
132-64-9	Dibenzofuran	3125	3220	103	40.8-122
95-50-1	1,2-Dichlorobenzene	3125	3380	108	53.6-112
541-73-1	1,3-Dichlorobenzene	3125	3350	107	55.9-110
106-46-7	1,4-Dichlorobenzene	3125	3370	108*	51.1-100
91-94-1	3,3'-Dichlorobenzidine	3125	5700	182	34.0-189
120-83-2	2,4-Dichlorophenol	3125	3280	105	50.1-114
84-66-2	Diethylphthalate	3125	3520	112	50.4-116
105-67-9	2,4-Dimethylphenol	3125	3460	111	41.5-116
131-11-3	Dimethylphthalate	3125	3510	112*	49.5-111
534-52-1	4,6-Dinitro-2-methylphenol	3125	3170	102*	39.2-10.0
51-28-5	2,4-Dinitrophenol	3125	3080	98.5	12.2-100
121-14-2	2,4-Dinitrotoluene	3125	3550	114	51.1-120
606-20-2	2,6-Dinitrotoluene	3125	3620	116	51.7-116
206-44-0	Fluoranthene	3125	3320	106	49.8-120
86-73-7	Fluorene	3125	3620	116	46.3-120
118-74-1	Hexachlorobenzene	3125	3320	106	50.6-115

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: LCS3202

Sample wt/vol: 32 (g) — Lab File ID: 0711619.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N — Date Analyzed: 07/12/05 00:40

Concentrated Extract Volume: 10 (mL) — 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	3250	104	53.0-107
77-47-4	Hexachlorocyclopentadiene	3125	4120	132*	10.0-239
67-72-1	Hexachloroethane	3125	3380	108	53.6-112
193-39-5	Indeno(1,2,3-c,d)pyrene	3125	4110	132*	46.5-112
78-59-1	Isophorone	3125	4050	130	63.4-136
90-12-0	1-Methylnaphthalene	3125	3400	109	27.5-125
91-57-6	2-Methylnaphthalene	3125	3130	100	44.3-117
95-48-7	2-Methylphenol	3125	3340	107	50.4-114
108-39-4	4-Methylphenol	6250	5650	90.4	39.0-107
621-64-7	N-Nitrosodi-n-propylamine	3125	3870	124	53.1-128
86-30-6	Diphenylamine	3125	5140	165*	29.2-102
91-20-3	Naphthalene	3125	3440	110	53.3-112
88-74-4	2-Nitroaniline	3125	3590	115	39.6-132
99-09-2	3-Nitroaniline	3125	8260	264*	10.0-368
100-01-6	4-Nitroaniline	3125	3230	104	35.5-146
98-95-3	Nitrobenzene	3125	3590	115*	53.2-111
88-75-5	2-Nitrophenol	3125	3100	99.2	48.3-110
100-02-7	4-Nitrophenol	3125	3450	110	39.5-118
87-86-5	Pentachlorophenol	3125	2650	84.9	38.8-99.4
85-01-8	Phenanthrene	3125	3400	109	46.5-124
108-95-2	Phenol	3125	3300	105	51.2-116
129-00-0	Pyrene	3125	4740	152*	38.0-132
120-82-1	1,2,4-Trichlorobenzene	3125	3330	106	55.1-111
95-95-4	2,4,5-Trichlorophenol	3125	3260	104	47.4-117
88-06-2	2,4,6-Trichlorophenol	3125	3160	101	47.4-114

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	MW-1-2
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	78
Dilution Factor	1
C_5-C_8 Aliphatics**	20 (mg/Kg)
C_9-C_{12} Aliphatics**	17 (mg/Kg)
C_9-C_{10} Aromatics**	13 (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: G161-2055-1E

Reviewed By: _____

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	MW-1-7
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/01/05
Date Analyzed	07/08/05
Dry Weight	88
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	97
Surrogate % Recovery - FID	93

* = 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: G161-2055-2E

Reviewed By: BJ

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/08/05 PID Initial Calibration Date: 06/08/05

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	3.6	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.988	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	12.9	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/08/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	16.0
C_9-C_{12} Aliphatics	500	50	-7.1
C_9-C_{10} Aromatics	500	50	-0.4

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

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical Laboratories, INC.

IV

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4070805A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab Sample ID: VBLK4070805A Lab File ID: 007F0101.D

Date Analyzed: 2005-07-08 Instrument ID: GC4

Time Analyzed: 10:15 GC Column:

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

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	MW-1-2	G161-2055-1E	012F0101.D	2005-07-08 12:23
02	MW-1-7	G161-2055-2E	013F0101.D	2005-07-08 12:48
03				
04				
05				
06				
07				
08				
09				
10				
11				
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36				

COMMENTS:

PARADIGM ANALYTICAL LABORATORIES, INC.

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 (BFB-PID)	S2 (BFB-FID)
01	MW-1-2	G161-2055-1E	012F0101.D	110	110
02	MW-1-7	G161-2055-2E	013F0101.D	97	93
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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43					
44					

	QC Limits
S1 (BFB-PID) = 4-bromofluorobenzene	(70-130)
S2 (BFB-FID) = 4-bromofluorobenzene	(70-130)

N.C. Certification #481 S.C. Certification #99029

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	7/8/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC4070805	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	17	16
C_9-C_{12} Aliphatics	BQL	7.8	7.5
C_9-C_{10} Aromatics	BQL	5.2	4.8

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	30	75%	28	71%	5.8

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	Soil
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/08/05
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	80
Surrogate % Recovery - FID	85

* = 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: vblk4070805b

Reviewed By: _____

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	7/8/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	vlcs4070805	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		20			
C_9-C_{12} Aliphatics		8.0			
C_9-C_{10} Aromatics		5.1			
Gasoline	40	33	83	70	130

Reviewed By:

Comments:
BQL = Below Quantitation Limit

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	MW-1-2
Sample Matrix	Soil
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/08/05
Date Analyzed	07/12/05
Dry Weight	89.6
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	93 (mg/Kg)
C_{11}-C_{22} Aromatics*	28 (mg/Kg)
Aliphatic Surrogate % Recovery	66
Aromatic Surrogate % Recovery	73
Fractionation Surrogate 1 % Recovery	43

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2055-1H

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	MW-1-7
Sample Matrix	Soil
Date Collected	07/01/05
Date Received	07/05/05
Date Extracted	07/08/05
Date Analyzed	07/08/05
Dry Weight	88.3
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: G161-2055-2G

Reviewed By: RJV

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: 07/08/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.2
C_{19}-C_{36} Aliphatics	160	13.0
C_{11}-C_{22} Aromatics	340	-5.2

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: 07/12/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	21 1
C_{19}-C_{36} Aliphatics	160	3 4
C_{11}-C_{22} Aromatics	340	6 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

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	
Date Analyzed	07/08/05
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	94
Aromatic Surrogate % Recovery	95

Comments:

* = Excludes any surrogates or internal standards
Sample did not require fractionation

Lab info: pb3191

Reviewed By: _____

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	9/15/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	QC3191	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	13	89	16	100	11.6
C_{19}-C_{36} Aliphatics	BQL	21	103	27	112	8.8
C_{11}-C_{22} Aromatics	BQL	40	109	53	132	18.8

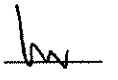
Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	9/15/2005
Client Project ID:		Analyzed By:	CLP
Lab Sample ID:	LCS3191	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	10 0	60	40	140
C_{19}-C_{36} Aliphatics	25 0	19.0	76	40	140
C_{11}-C_{22} Aromatics	41.7	40.0	96	40	140

Reviewed By: 

Comments:
BQL = Below Quantitation Limit

8260 Sample Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712418.D Vial: 18
Acq On : 12 Jul 2005 8:24 pm Operator: JTF
Sample : g161-2055-1d x50 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 20:49 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	1689649	10.00	ppb	0.00
39) bromochloropropane	11.87	79	155320	10.00	ppb	0.00
53) chlorobenzene-d5	13.69	117	1093372	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	285120	8.14	ppb	0.00
Spiked Amount 10.000			Recovery	=	81.40%	
33) toluene-d8	11.25	98	1211254	10.18	ppb	0.00
Spiked Amount 10.000			Recovery	=	101.80%	
49) 4-bromofluorobenzene	15.78	95	457534	10.17	ppb	0.00
Spiked Amount 10.000			Recovery	=	101.70%	

Target Compounds						Qvalue
4) vinyl chloride	2.22	62	1476	0.08	ppb #	43
5) bromomethane	2.60	94	1332	Below Cal	#	3
10) acetone	3.89	43	8083	Below Cal	#	50
11) methylene chloride	4.64	84	603	0.02	ppb #	64
13) acrylonitrile	5.11	53	3968	Below Cal	#	8
17) 2-butanone	6.72	43	10377	1.59	ppb #	57
19) chloroform	7.32	83	19264	0.37	ppb #	54
24) benzene	8.17	78	57620	0.45	ppb	97
26) trichloroethene	9.28	95	2193	0.07	ppb #	3
29) bromodichloromethane	10.12	83	35211	1.16	ppb #	25
32) 4-methyl-2-pentanone	11.15	43	125325	6.24	ppb #	77
34) toluene	11.36	92	2161895	28.66	ppb	100
36) trans-1,3-dichloropropene	11.87	75	6081	0.23	ppb #	54
40) 1,1,2-trichloroethane	12.08	83	10413	0.99	ppb #	1
41) tetrachloroethene	12.28	166	1502	0.06	ppb #	73
43) 2-hexanone	12.41	43	60954	1.54	ppb #	38
51) 1,1,2,2-tetrachloroethane	16.08	83	1907	Below Cal	#	26
52) 1,2,3-trichloropropane	16.26	75	4304	Below Cal	#	1
54) ethylbenzene	13.96	91	1418383	10.57	ppb	98
55) m/p-xylene	14.16	106	2720877	58.86	ppb	93
56) styrene	14.85	104	56195	0.90	ppb	100
57) o-xylene	14.85	106	1161900	27.78	ppb	94
58) isopropylbenzene	15.52	105	220349	1.91	ppb	99
59) n-propyl benzene	16.26	91	1036984	7.18	ppb	99
62) 1,3,5-trimethylbenzene	16.59	105	1260398	13.56	ppb	100
63) tert-butylbenzene	17.26	119	459362	6.03	ppb	85
64) 1,2,4-trimethylbenzene	17.26	105	3918428	43.40	ppb	99
65) sec-butylbenzene	17.26	105	3918428	33.66	ppb	58
67) 4-isopropyltoluene	17.84	119	28906	0.31	ppb 0.31	98

(#) = qualifier out of range (m) = manual integration
0712418.D 6210D.M Tue Jul 12 20:49:31 2005 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712418.D Vial: 18
Acq On : 12 Jul 2005 8:24 pm Operator: JTF
Sample : g161-2055-1d x50 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 20:49 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

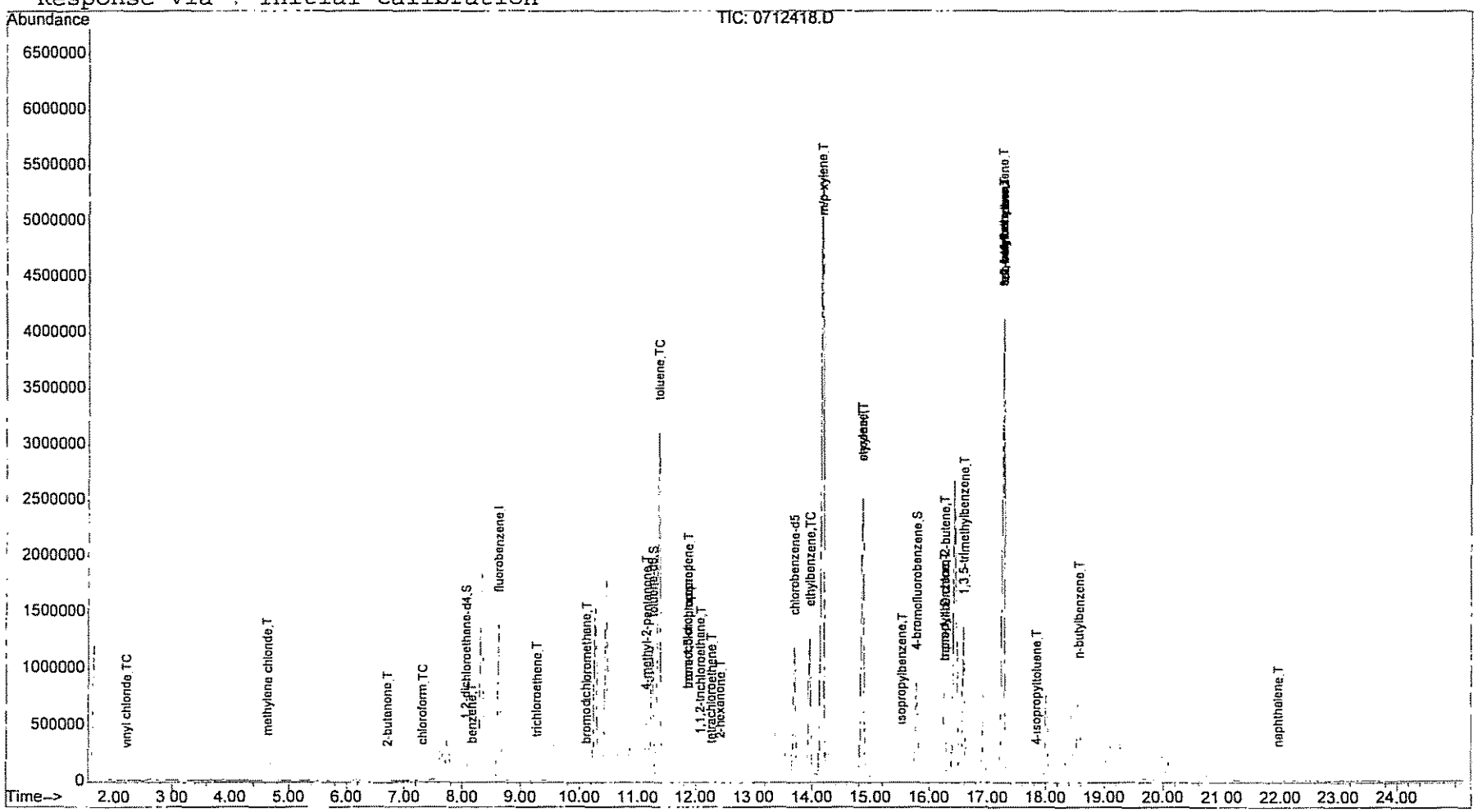
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
70)	n-butylbenzene	18.58	91	317243	~~3.59~~ ppb	#	1
74)	naphthalene	21.96	128	45015	2.02 ppb		96
75)	trans-1,4-Dichloro-2-buten	16.26	89	23005	~~10.73~~ ppb	#	7

(#) = qualifier out of range (m) = manual integration
0712418.D 6210D.M Tue Jul 12 20:49:31 2005 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712418.D Vial: 18
Acq On : 12 Jul 2005 8:24 pm Operator: JTF
Sample : g161-2055-1d x50 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 20:49 2005 Quant Results File: 6210D.RES

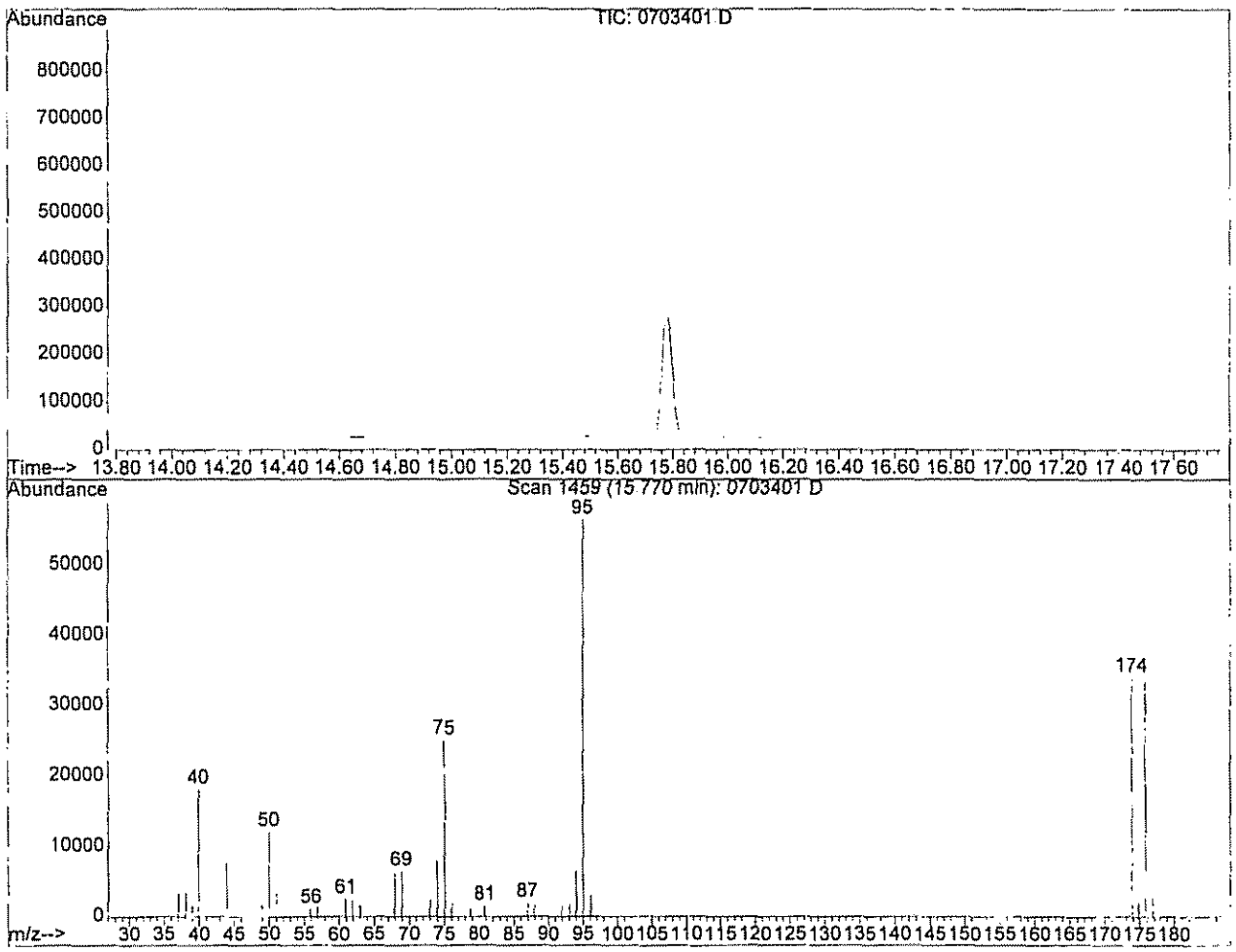
Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



8260 Tuning

BFB

Data File : C:\HPCHEM\1\DATA\4070305\0703401.D Vial: 1
Acq On : 3 Jul 2005 1:07 pm Operator: RNP
Sample : 50 ng bfb Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX



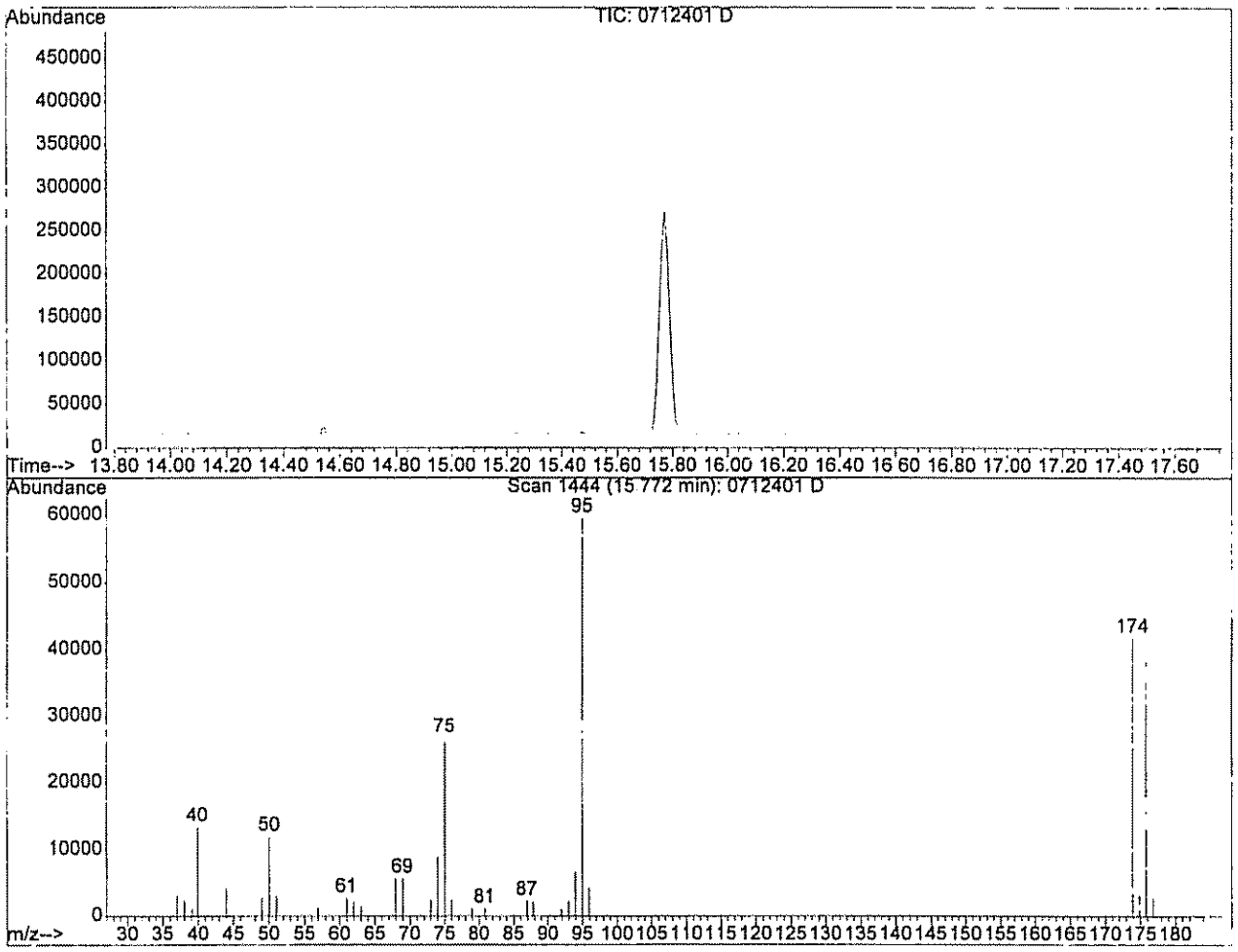
Spectrum Information: Scan 1459

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	12124	PASS
75	95	30	60	44.4	25112	PASS
95	95	100	100	100.0	56512	PASS
96	95	5	9	5.7	3203	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.4	34152	PASS
175	174	5	9	6.9	2348	PASS
176	174	95	101	98.2	33544	PASS
177	176	5	9	8.4	2828	PASS

0703401.D 6210D.M Wed Sep 07 16:47:19 2005

BFB

Data File : C:\HPCHEM\1\DATA\4071205\0712401.D Vial: 1
Acq On : 12 Jul 2005 11:22 am Operator: JTF
Sample : bfb 50ng Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX



Spectrum Information: Scan 1444

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	12042	PASS
75	95	30	60	44.9	26776	PASS
95	95	100	100	100.0	59664	PASS
96	95	5	9	7.1	4263	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.1	41816	PASS
175	174	5	9	7.9	3314	PASS
176	174	95	101	97.6	40792	PASS
177	176	5	9	7.0	2853	PASS

0712401.D 6210D.M Wed Sep 07 16:43:53 2005

8260 Calibration Raw Data

Response Factor Report MSD4

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration

Calibration Files
1 =0703403.D 2 =0703405.D 3 =0703406.D
4 =0703408.D 5 =0703409.D 6 =0703404.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------							
2)	T	dichlorodifluoromet	0.285	0.209	0.193	0.201	0.208	0.198	0.215	16.04
3)	TP	chloromethane	0.352	0.247	0.229	0.245	0.249	0.236	0.260	17.63
4)	TC	vinyl chloride	0.343	0.239	0.219	0.228	0.233	0.237	0.250	18.49
5)	T	bromomethane	0.174	0.129	0.119	0.102		0.128	0.130	20.48
6)	T	chloroethane	0.198	0.140	0.129	0.133	0.129	0.122	0.142	20.03
7)	T	trichlorofluorometh	0.330	0.242	0.225	0.236	0.241	0.225	0.250	15.90
8)	T	acrolein	0.010	0.007	0.006	0.008	0.010	0.007	0.008	20.64
9)	TC	1,1-dichloroethene	0.157	0.168	0.150	0.149	0.142	0.171	0.156	7.32
10)	T	acetone	0.055	0.044	0.039	0.034	0.031	0.058	0.044	25.60
11)	T	methylene chloride	0.179	0.166	0.151	0.143	0.136	0.178	0.159	11.57
12)	T	trans-1,2-dichloroe	0.201	0.201	0.184	0.179	0.170	0.209	0.191	8.03
13)	T	acrylonitrile	0.039	0.026	0.024	0.025	0.024	0.027	0.027	20.57
14)	TP	1,1-dichloroethane	0.398	0.387	0.352	0.346	0.328	0.425	0.373	9.87
15)	T	2,2-dichloropropane	0.297	0.278	0.249	0.235	0.221	0.303	0.264	12.82
16)	T	cis-1,2-dichloroeth	0.199	0.194	0.177	0.171	0.164	0.211	0.186	9.82
17)	T	2-butanone	0.072	0.058	0.050	0.048	0.043	0.014	0.047	40.70
18)	T	bromochloromethane	0.054	0.060	0.058	0.057	0.053	0.064	0.058	7.19
19)	TC	chloroform	0.333	0.316	0.288	0.284	0.269	0.347	0.306	10.03
20)	T	1,1,1-trichloroetha	0.275	0.276	0.253	0.252	0.240	0.299	0.266	8.09
21)	T	carbon tetrachlorid	0.226	0.236	0.217	0.217	0.203	0.258	0.226	8.41
22)	T	1,1-dichloropropene	0.278	0.270	0.246	0.250	0.236	0.290	0.262	8.03
23)	S	1,2-dichloroethane-	0.212	0.207	0.207	0.207	0.201	0.210	0.207	1.83
24)	T	benzene	0.792	0.779	0.710	0.706	0.669	0.849	0.751	8.91
25)	T	1,2-dichloroethane	0.167	0.169	0.153	0.151	0.139	0.188	0.161	10.65
26)	T	trichloroethene	0.184	0.186	0.174	0.173	0.165	0.209	0.182	8.37
27)	TC	1,2-dichloropropane	0.188	0.180	0.165	0.165	0.154	0.197	0.175	9.21
28)	T	dibromomethane	0.055	0.060	0.054	0.055	0.051	0.067	0.057	9.64
29)	T	bromodichloromethan	0.208	0.190	0.163	0.167	0.155	0.198	0.180	11.79
30)	T	2-chloroethyl vinyl	0.203	0.141	0.132	0.136	0.130	0.151	0.149	18.67
31)	T	cis-1,3-dichloropro	0.231	0.215	0.200	0.199	0.185	0.245	0.212	10.51
32)	T	4-methyl-2-pentanon	0.123	0.091	0.080	0.078	0.069	0.118	0.093	24.07
33)	S	toluene-d8	0.711	0.706	0.707	0.698	0.694	0.708	0.704	0.92
34)	TC	toluene	0.484	0.457	0.420	0.420	0.394	0.503	0.446	9.45
35)	T	Iodomethane	0.325	0.323	0.298	0.296	0.281	0.346	0.312	7.69
36)	T	trans-1,3-dichlorop	0.185	0.163	0.144	0.143	0.133	0.178	0.157	13.24
37)	T	Vinyl acetate	0.468	0.406	0.362	0.365		0.462	0.413	12.30
38)	T	Carbon disulfide	0.744	0.729	0.657	0.646	0.616	0.764	0.693	8.74
39)	I	bromochloropropane	----------ISTD----------							
40)	T	1,1,2-trichloroetha	0.746	0.689	0.619	0.632	0.590	0.794	0.678	11.71
41)	T	tetrachloroethene	1.638	1.701	1.572	1.577	1.503	1.817	1.635	6.82
42)	T	1,3-dichloropropane	1.888	1.625	1.466	1.465	1.342	1.836	1.604	13.72

(#) = Out of Range

Response Factor Report MSD4

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration

Calibration Files
1 =0703403.D 2 =0703405.D 3 =0703406.D
4 =0703408.D 5 =0703409.D 6 =0703404.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)	T	2-hexanone	1.048	0.821	0.725	0.693	0.610	1.064	0.827	22.96
44)	T	dibromochloromethan	1.099	1.025	0.937	0.931	0.870	1.193	1.009	11.95
45)	T	1,2-dibromoethane	0.819	0.721	0.671	0.685	0.635	0.860	0.732	12.12
46)	TP	chlorobenzene	4.857	4.447	3.948	4.004	3.763	4.787	4.301	10.75
47)	T	1,1,1,2-tetrachloro	1.458	1.376	1.256	1.238	1.162	1.485	1.329	9.79
48)	TP	bromoform	0.462	0.467	0.431	0.437	0.396	0.581	0.462	13.74
49)	S	4-bromofluorobenzen	2.938	2.881	2.907	2.931	2.865	2.853	2.896	1.21
50)	T	bromobenzene	1.421	1.321	1.199	1.206	1.117	1.422	1.281	9.92
51)	TP	1,1,2,2-tetrachloro	0.952	0.773	0.682	0.681	0.613	0.978	0.780	19.55
52)	T	1,2,3-trichloroprop	2.272	1.909	1.638	1.602	1.435	2.336	1.865	19.99
53)		chlorobenzene-d5	----------ISTD----------							
54)	TC	ethylbenzene	1.363	1.252	1.141	1.154	1.096	1.355	1.227	9.31
55)	T	m/p-xylene	0.458	0.437	0.392	0.395	0.372	0.483	0.423	10.21
56)	T	styrene	0.644	0.578	0.521	0.526	0.498	0.647	0.569	11.36
57)	T	o-xylene	0.413	0.394	0.357	0.360	0.341	0.430	0.383	9.18
58)	T	isopropylbenzene	1.132	1.094	0.980	1.004	0.957	1.176	1.057	8.46
59)	T	n-propyl benzene	1.506	1.374	1.197	1.211	1.150	1.492	1.322	11.85
60)	T	2-chlorotoluene	0.243	0.235	0.208	0.207	0.195	0.261	0.225	11.33
61)	T	4-chlorotoluene	0.259	0.235	0.208	0.208	0.194	0.262	0.228	12.52
62)	T	1,3,5-trimethylbenz	0.915	0.883	0.785	0.797	0.739	0.982	0.850	10.80
63)	T	tert-butylbenzene	0.779	0.725	0.637	0.635	0.609	0.795	0.697	11.55
64)	T	1,2,4-trimethylbenz	0.861	0.860	0.750	0.788	0.732	0.964	0.826	10.49
65)	T	sec-butylbenzene	1.152	1.104	0.973	0.990	0.944	1.224	1.065	10.55
66)	T	1,3-dichlorobenzene	0.446	0.411	0.359	0.358	0.332	0.467	0.396	13.71
67)	T	4-isopropyltoluene	0.936	0.880	0.779	0.804	0.758	0.984	0.857	10.66
68)	T	1,4-dichlorobenzene	0.450	0.406	0.347	0.344	0.322	0.457	0.388	14.97
69)	T	1,2-dichlorobenzene	0.346	0.316	0.274	0.269	0.250	0.365	0.303	15.26
70)	T	n-butylbenzene	0.868	0.820	0.749	0.765	0.715	0.935	0.809	10.19
71)	T	1,2-dibromo-3-chlor	0.022	0.019	0.016	0.015	0.014	0.022	0.018	20.61
72)	T	1,2,4-trichlorobenz	0.143	0.150	0.132	0.135	0.126	0.175	0.143	12.15
73)	T	hexachlorobutadiene	0.074	0.083	0.072	0.072	0.068	0.086	0.076	9.15
74)	T	naphthalene	0.238	0.198	0.168	0.173	0.162	0.253	0.198	19.52
75)	T	trans-1,4-Dichloro-	0.022	0.018	0.017	0.016	0.015	0.023	0.018	17.87
76)	T	1,2,3-trichlorobenz	0.104	0.107	0.093	0.091	0.085	0.120	0.100	12.66
77)	T	MTBE	0.494	0.473	0.424	0.425	0.397	0.539	0.458	11.57
78)	T	DIPE	1.269	1.210	1.097	1.114	1.033	1.347	1.178	10.02

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703403.D Vial: 3
Acq On : 4 Jul 2005 11:23 am Operator: RNP
Sample : VSTD0005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:03 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.62	96	2110533	10.00	ppb	-0.05
39) bromochloropropane	11.86	79	211574	10.00	ppb	-0.04
53) chlorobenzene-d5	13.68	117	1392317	10.00	ppb	-0.05
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	446957	12.62	ppb	-0.05
Spiked Amount 10.000			Recovery	=	126.20%	
33) toluene-d8	11.24	98	1500086	9.89	ppb	-0.04
Spiked Amount 10.000			Recovery	=	98.90%	
49) 4-bromofluorobenzene	15.76	95	621515	9.14	ppb	-0.05
Spiked Amount 10.000			Recovery	=	91.40%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	30065m	0.77	ppb		
3) chloromethane	2.08	50	37143m	0.81	ppb		
4) vinyl chloride	2.21	62	36157m	0.80	ppb		
5) bromomethane	2.62	94	18344	2.76	ppb		91
6) chloroethane	2.76	64	20941	0.51	ppb		96
7) trichlorofluoromethane	3.11	101	34776	0.93	ppb		99
8) acrolein	3.70	56	27074	22.74	ppb		95
9) 1,1-dichloroethene	3.86	96	16567	0.37	ppb		92
10) acetone	3.95	43	29137	7.39	ppb		96
11) methylene chloride	4.64	84	18934	0.66	ppb	#	88
12) trans-1,2-dichloroethene	5.10	96	21209	0.54	ppb		96
13) acrylonitrile	5.05	53	102294	33.69	ppb		100
14) 1,1-dichloroethane	5.78	63	42024	0.54	ppb		95
15) 2,2-dichloropropane	6.74	77	31307	0.66	ppb		95
16) cis-1,2-dichloroethene	6.74	96	21046	0.61	ppb		88
17) 2-butanone	6.80	43	38107	8.86	ppb	#	89
18) bromochloromethane	7.13	128	5707	0.77	ppb	#	64
19) chloroform	7.28	83	35116	0.57	ppb		100
20) 1,1,1-trichloroethane	7.56	97	29036	0.46	ppb		99
21) carbon tetrachloride	7.83	117	23896	0.57	ppb		91
22) 1,1-dichloropropene	7.83	75	29329	0.27	ppb		90
24) benzene	8.16	78	83590	0.32	ppb		98
25) 1,2-dichloroethane	8.19	62	17655	0.63	ppb		77
26) trichloroethene	9.22	95	19404	0.26	ppb		98
27) 1,2-dichloropropane	9.58	63	19836	0.64	ppb		96
28) dibromomethane	9.76	93	5849	0.72	ppb		85
29) bromodichloromethane	10.05	83	21903	0.74	ppb		89
30) 2-chloroethyl vinyl ether	10.57	106	53621	8.81	ppb		97
31) cis-1,3-dichloropropene	10.79	75	24370	0.70	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703403.D Vial: 3
Acq On : 4 Jul 2005 11:23 am Operator: RNP
Sample : VSTD0005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:03 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.06	43	64660	6.24	ppb	#	89
34)	toluene	11.35	92	51116	0.43	ppb		93
35)	Iodomethane	4.08	142	34338	1.59	ppb		95
36)	trans-1,3-dichloropropene	11.73	75	19473	0.85	ppb		99
37)	Vinyl acetate	5.91	43	123383	2.23	ppb		98
38)	Carbon disulfide	4.18	76	78544	0.28	ppb	#	96
40)	1,1,2-trichloroethane	12.03	83	7887	0.67	ppb		95
41)	tetrachloroethene	12.28	166	17325	0.01	ppb		96
42)	1,3-dichloropropane	12.30	76	19972	0.69	ppb		91
43)	2-hexanone	12.49	43	55423	6.80	ppb	#	96
44)	dibromochloromethane	12.69	129	11622	0.74	ppb		97
45)	1,2-dibromoethane	12.87	107	8660	0.68	ppb		97
46)	chlorobenzene	13.73	112	51377	0.33	ppb		96
47)	1,1,1,2-tetrachloroethane	13.88	131	15421	0.62	ppb		93
48)	bromoform	15.17	173	4885	0.98	ppb		79
50)	bromobenzene	16.03	156	15035	0.42	ppb	#	77
51)	1,1,2,2-tetrachloroethane	16.05	83	10075	0.85	ppb		81
52)	1,2,3-trichloropropane	16.15	75	24033	2.37	ppb		92
54)	ethylbenzene	13.95	91	94860	0.36	ppb		99
55)	m/p-xylene	14.16	106	63806	0.94	ppb		99
56)	styrene	14.87	104	44803	0.53	ppb		100
57)	o-xylene	14.85	106	28762	0.51	ppb		97
58)	isopropylbenzene	15.52	105	78836	0.29	ppb		98
59)	n-propyl benzene	16.25	91	104844	0.47	ppb		95
60)	2-chlorotoluene	16.38	126	16890	0.34	ppb	#	93
61)	4-chlorotoluene	16.58	126	18028	0.55	ppb		92
62)	1,3,5-trimethylbenzene	16.58	105	63702	0.32	ppb		99
63)	tert-butylbenzene	17.15	119	54214	0.45	ppb		97
64)	1,2,4-trimethylbenzene	17.25	105	59913	0.48	ppb		98
65)	sec-butylbenzene	17.56	105	80219	0.44	ppb		98
66)	1,3-dichlorobenzene	17.73	146	31042	0.61	ppb		92
67)	4-isopropyltoluene	17.83	119	65183	0.43	ppb		97
68)	1,4-dichlorobenzene	17.89	146	31338	0.43	ppb		95
69)	1,2-dichlorobenzene	18.56	146	24063	0.71	ppb		97
70)	n-butylbenzene	18.58	91	60445	0.45	ppb		97
71)	1,2-dibromo-3-chloropropan	19.99	75	7718	6.59	ppb		98
72)	1,2,4-trichlorobenzene	21.52	180	9923	0.69	ppb		89
73)	hexachlorobutadiene	21.86	225	5128	0.38	ppb	#	47
74)	naphthalene	21.95	128	16558	1.18	ppb		70
75)	trans-1,4-Dichloro-2-buten	16.16	89	7548	11.62	ppb		82
76)	1,2,3-trichlorobenzene	22.40	180	7210	0.92	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703403.D Vial: 3
Acq On : 4 Jul 2005 11:23 am Operator: RNP
Sample : VSTD0005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:03 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

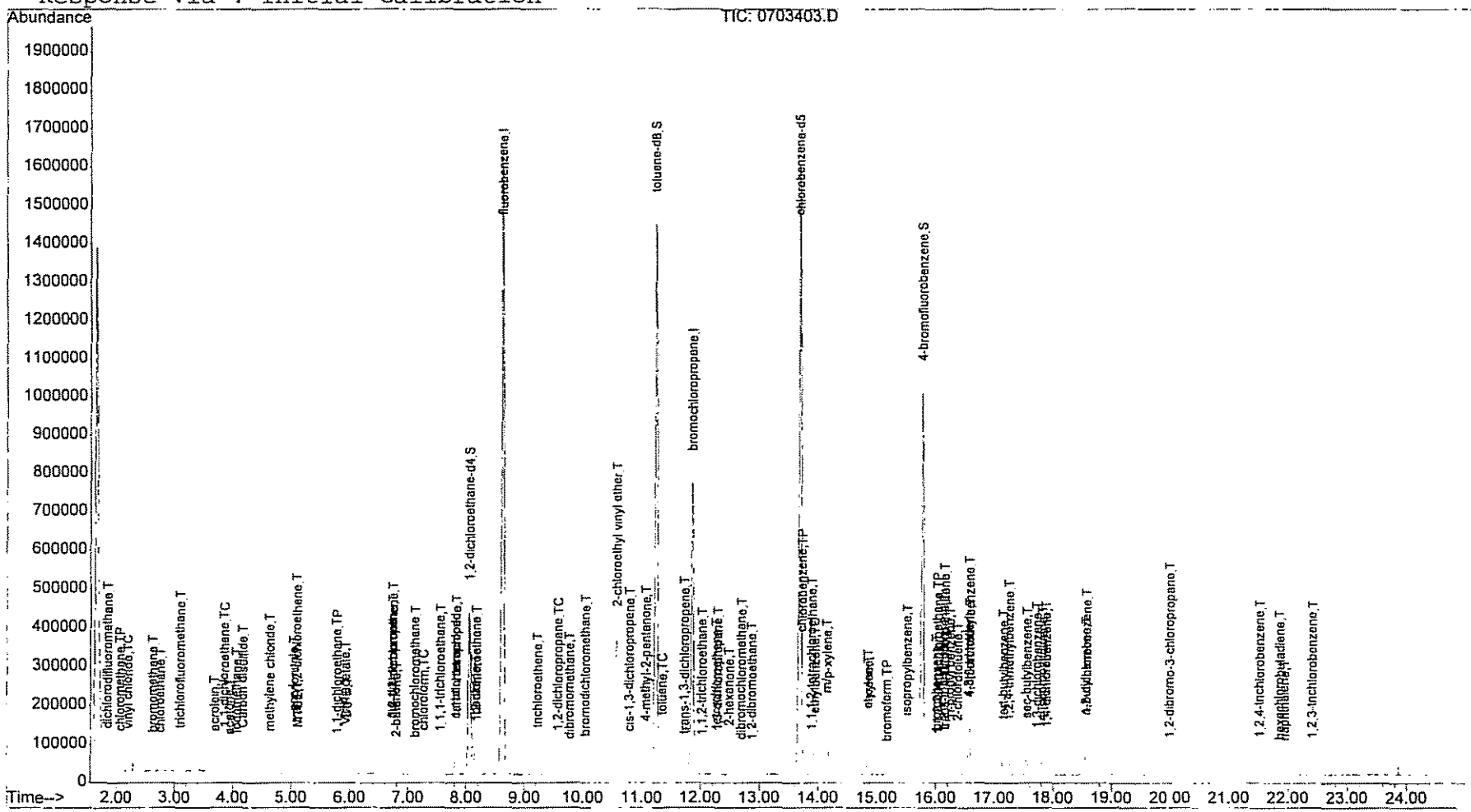
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	34357	0.73 ppb	96
78) DIPE	5.95	45	88322	0.64 ppb	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703403.D Vial: 3
Acq On : 4 Jul 2005 11:23 am Operator: RNP
Sample : VSTD0005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:03 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703404.D Vial: 4
Acq On : 4 Jul 2005 11:55 am Operator: RNP
Sample : VSTD001 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	2096867	10.00	ppb	-0.05
39) bromochloropropane	11.86	79	210690	10.00	ppb	-0.05
53) chlorobenzene-d5	13.69	117	1370766	10.00	ppb	-0.05
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.06	65	440775	12.52	ppb	-0.06
Spiked Amount 10.000			Recovery	=	125.20%	
33) toluene-d8	11.24	98	1483537	9.85	ppb	-0.05
Spiked Amount 10.000			Recovery	=	98.50%	
49) 4-bromofluorobenzene	15.77	95	601025	8.88	ppb	-0.05
Spiked Amount 10.000			Recovery	=	88.80%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	41489m	1.06	ppb		
3) chloromethane	2.08	50	49504m	1.09	ppb		
4) vinyl chloride	2.20	62	49630m	1.10	ppb		
5) bromomethane	2.63	94	26833	3.13	ppb		96
6) chloroethane	2.75	64	25508m	0.67	ppb		
7) trichlorofluoromethane	3.11	101	47187	1.17	ppb		100
8) acrolein	3.70	56	37284	31.52	ppb		99
9) 1,1-dichloroethene	3.86	96	35881	1.05	ppb	#	82
10) acetone	3.95	43	60941	21.24	ppb		92
11) methylene chloride	4.64	84	37228	1.31	ppb		88
12) trans-1,2-dichloroethene	5.10	96	43849	1.12	ppb		98
13) acrylonitrile	5.05	53	141735	46.99	ppb		98
14) 1,1-dichloroethane	5.78	63	89110	1.15	ppb		98
15) 2,2-dichloropropane	6.73	77	63598	1.36	ppb		92
16) cis-1,2-dichloroethene	6.74	96	44163	1.28	ppb	#	87
17) 2-butanone	6.79	43	73727	17.26	ppb		96
18) bromochloromethane	7.12	128	13510	1.83	ppb		96
19) chloroform	7.28	83	72766	1.19	ppb		93
20) 1,1,1-trichloroethane	7.55	97	62745	0.99	ppb		93
21) carbon tetrachloride	7.83	117	54056	1.31	ppb		98
22) 1,1-dichloropropene	7.84	75	60875	0.84	ppb		98
24) benzene	8.16	78	178022	1.01	ppb		99
25) 1,2-dichloroethane	8.19	62	39373	1.41	ppb		99
26) trichloroethene	9.23	95	43808	0.92	ppb		98
27) 1,2-dichloropropane	9.58	63	41232	1.33	ppb		95
28) dibromomethane	9.77	93	13991	1.74	ppb		93
29) bromodichloromethane	10.04	83	41504	1.42	ppb		94
30) 2-chloroethyl vinyl ether	10.57	106	79175	11.59	ppb		97
31) cis-1,3-dichloropropene	10.79	75	51305	1.48	ppb		95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\4070405\0703404.D Vial: 4
Acq On : 4 Jul 2005 11:55 am Operator: RNP
Sample : VSTD001 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.07	43	123899	12.03	ppb	#	92
34)	toluene	11.35	92	105452	1.09	ppb		95
35)	Iodomethane	4.07	142	72549	2.58	ppb		90
36)	trans-1,3-dichloropropene	11.73	75	37275	1.65	ppb		99
37)	Vinyl acetate	5.91	43	242241	4.41	ppb		96
38)	Carbon disulfide	4.18	76	160137	0.92	ppb	#	97
40)	1,1,2-trichloroethane	12.03	83	16726	1.42	ppb		97
41)	tetrachloroethene	12.27	166	38273	0.54	ppb		92
42)	1,3-dichloropropane	12.31	76	38687	1.35	ppb		93
43)	2-hexanone	12.49	43	112090	13.80	ppb		100
44)	dibromochloromethane	12.69	129	25135	1.61	ppb		96
45)	1,2-dibromoethane	12.87	107	18118	1.44	ppb		92
46)	chlorobenzene	13.74	112	100851	0.93	ppb		98
47)	1,1,1,2-tetrachloroethane	13.89	131	31286	1.26	ppb		91
48)	bromoform	15.18	173	12250	2.47	ppb		96
50)	bromobenzene	16.02	156	29967	1.09	ppb		90
51)	1,1,2,2-tetrachloroethane	16.05	83	20603	1.74	ppb		95
52)	1,2,3-trichloropropane	16.15	75	49227	3.70	ppb		85
54)	ethylbenzene	13.95	91	185766	0.88	ppb		98
55)	m/p-xylene	14.16	106	132355	1.97	ppb		95
56)	styrene	14.87	104	88717	1.08	ppb		100
57)	o-xylene	14.85	106	58910	1.07	ppb		98
58)	isopropylbenzene	15.51	105	161223	0.80	ppb		97
59)	n-propyl benzene	16.25	91	204464	0.93	ppb		99
60)	2-chlorotoluene	16.39	126	35830	0.99	ppb		98
61)	4-chlorotoluene	16.59	126	35865	1.10	ppb		100
62)	1,3,5-trimethylbenzene	16.58	105	134636	0.93	ppb		96
63)	tert-butylbenzene	17.16	119	109022	0.91	ppb		99
64)	1,2,4-trimethylbenzene	17.25	105	132203	1.07	ppb		97
65)	sec-butylbenzene	17.56	105	167737	0.94	ppb		99
66)	1,3-dichlorobenzene	17.73	146	64081	1.28	ppb		94
67)	4-isopropyltoluene	17.84	119	134870	0.89	ppb		99
68)	1,4-dichlorobenzene	17.90	146	62635	1.23	ppb		95
69)	1,2-dichlorobenzene	18.57	146	50091	1.49	ppb		94
70)	n-butylbenzene	18.58	91	128192	0.97	ppb		99
71)	1,2-dibromo-3-chloropropan	19.99	75	15197	13.19	ppb		88
72)	1,2,4-trichlorobenzene	21.52	180	23921	1.68	ppb		99
73)	hexachlorobutadiene	21.87	225	11730	0.89	ppb		93
74)	naphthalene	21.95	128	34710	2.51	ppb		99
75)	trans-1,4-Dichloro-2-buten	16.15	89	15724	19.84	ppb		86
76)	1,2,3-trichlorobenzene	22.41	180	16417	2.13	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703404.D Vial: 4
Acq On : 4 Jul 2005 11:55 am Operator: RNP
Sample : VSTD001 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

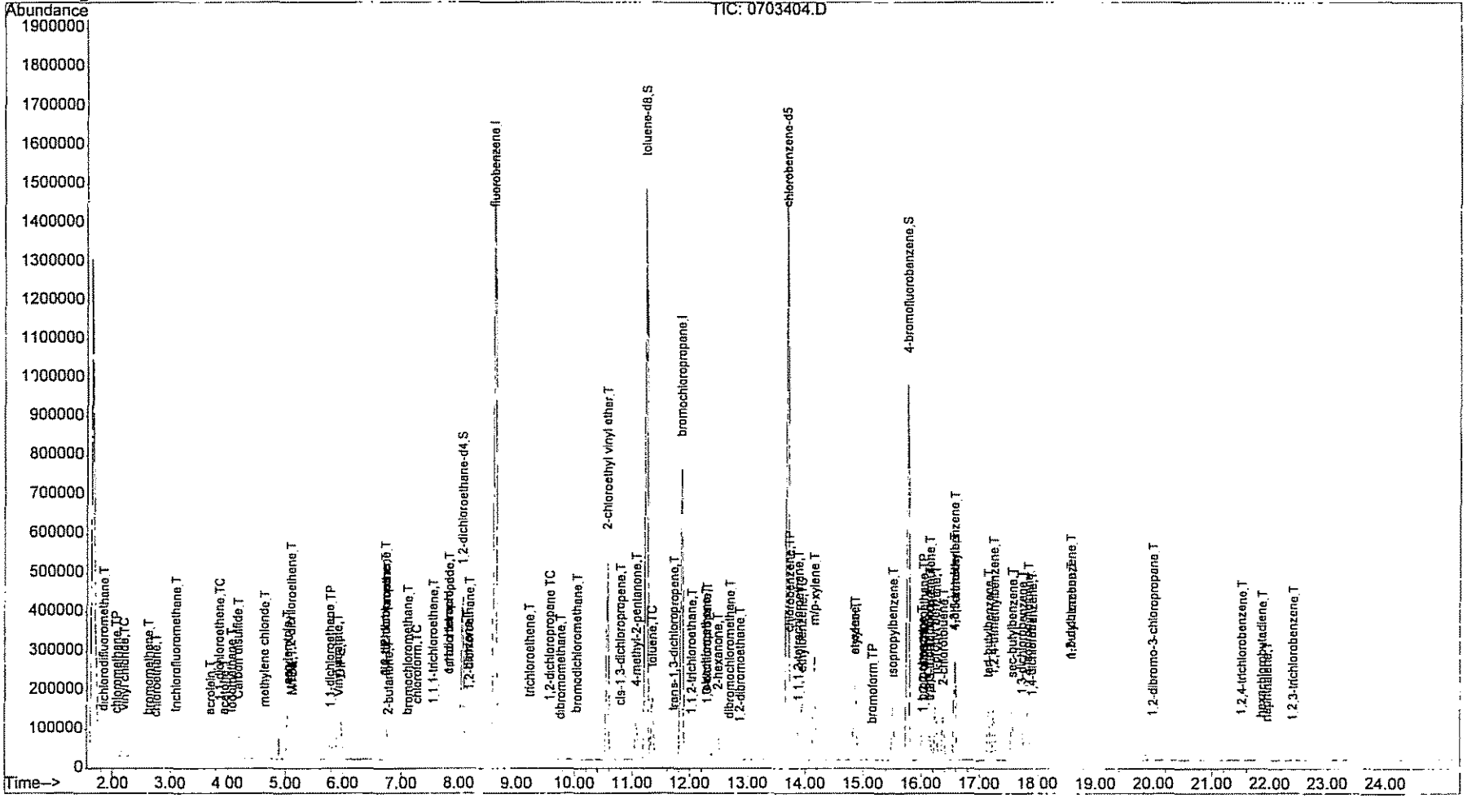
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	73848	1.60 ppb	95
78) DIPE	5.96	45	184703	1.36 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703404.D Vial: 4
Acq On : 4 Jul 2005 11:55 am Operator: RNP
Sample : VSTD001 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703405.D Vial: 5
Acq On : 4 Jul 2005 12:27 pm Operator: RNP
Sample : VSTD002 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.62	96	2074380	10.00	ppb		-0.05
39) bromochloropropane	11.86	79	204601	10.00	ppb		-0.04
53) chlorobenzene-d5	13.69	117	1350562	10.00	ppb		-0.04
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.06	65	429353	12.33	ppb		-0.06
Spiked Amount 10.000			Recovery	=	123.30%		
33) toluene-d8	11.24	98	1465123	9.83	ppb		-0.04
Spiked Amount 10.000			Recovery	=	98.30%		
49) 4-bromofluorobenzene	15.77	95	589362	8.97	ppb		-0.04
Spiked Amount 10.000			Recovery	=	89.70%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	86616m	2.24	ppb		
3) chloromethane	2.07	50	102288m	2.28	ppb		
4) vinyl chloride	2.21	62	99006m	2.23	ppb		
5) bromomethane	2.62	94	53589	4.29	ppb		99
6) chloroethane	2.76	64	58122	1.85	ppb		94
7) trichlorofluoromethane	3.10	101	100572	2.18	ppb		96
8) acrolein	3.70	56	67545	57.72	ppb		97
9) 1,1-dichloroethene	3.85	96	69790	2.27	ppb	#	83
10) acetone	3.95	43	91592	34.93	ppb		96
11) methylene chloride	4.64	84	68950	2.44	ppb		95
12) trans-1,2-dichloroethene	5.09	96	83210	2.15	ppb		87
13) acrylonitrile	5.04	53	271718	91.05	ppb		98
14) 1,1-dichloroethane	5.78	63	160487	2.10	ppb		100
15) 2,2-dichloropropane	6.74	77	115418	2.49	ppb		94
16) cis-1,2-dichloroethene	6.74	96	80676	2.36	ppb		89
17) 2-butanone	6.80	43	119984	28.39	ppb		93
18) bromochloromethane	7.12	128	24797	3.39	ppb	#	86
19) chloroform	7.28	83	131098	2.18	ppb		100
20) 1,1,1-trichloroethane	7.56	97	114588	1.83	ppb		98
21) carbon tetrachloride	7.83	117	97910	2.39	ppb		94
22) 1,1-dichloropropene	7.83	75	111933	1.79	ppb		99
24) benzene	8.16	78	323186	2.09	ppb		100
25) 1,2-dichloroethane	8.19	62	70315	2.55	ppb		100
26) trichloroethene	9.23	95	77302	1.85	ppb		93
27) 1,2-dichloropropane	9.57	63	74865	2.44	ppb		100
28) dibromomethane	9.76	93	24713	3.11	ppb		97
29) bromodichloromethane	10.05	83	78995	2.72	ppb		97
30) 2-chloroethyl vinyl ether	10.57	106	145731	18.93	ppb		95
31) cis-1,3-dichloropropene	10.80	75	89239	2.61	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703405.D Vial: 5
Acq On : 4 Jul 2005 12:27 pm Operator: RNP
Sample : VSTD002 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32)	4-methyl-2-pentanone	11.07	43	188353	18.49 ppb	#	92
34)	toluene	11.35	92	189709	2.14 ppb		99
35)	Iodomethane	4.08	142	134151	4.22 ppb		95
36)	trans-1,3-dichloropropene	11.73	75	67548	3.01 ppb		97
37)	Vinyl acetate	5.91	43	421485	7.75 ppb		98
38)	Carbon disulfide	4.18	76	302410	2.06 ppb		99
40)	1,1,2-trichloroethane	12.03	83	28176	2.47 ppb		98
41)	tetrachloroethene	12.27	166	69606	1.38 ppb		100
42)	1,3-dichloropropane	12.30	76	66508	2.39 ppb		98
43)	2-hexanone	12.48	43	167961	21.30 ppb		99
44)	dibromochloromethane	12.69	129	41936	2.76 ppb		99
45)	1,2-dibromoethane	12.86	107	29516	2.41 ppb		91
46)	chlorobenzene	13.73	112	181957	1.98 ppb		95
47)	1,1,1,2-tetrachloroethane	13.89	131	56305	2.34 ppb		98
48)	bromoform	15.17	173	19099	3.96 ppb		86
50)	bromobenzene	16.02	156	54063	2.25 ppb		96
51)	1,1,2,2-tetrachloroethane	16.05	83	31649	2.75 ppb		95
52)	1,2,3-trichloropropane	16.14	75	78117	5.34 ppb		95
54)	ethylbenzene	13.95	91	338188	1.76 ppb		99
55)	m/p-xylene	14.16	106	235844	3.57 ppb		97
56)	styrene	14.87	104	156158	1.92 ppb		100
57)	o-xylene	14.84	106	106474	1.96 ppb		100
58)	isopropylbenzene	15.51	105	295438	1.66 ppb		99
59)	n-propyl benzene	16.25	91	371040	1.71 ppb		99
60)	2-chlorotoluene	16.38	126	63527	1.97 ppb		97
61)	4-chlorotoluene	16.58	126	63392	1.98 ppb		96
62)	1,3,5-trimethylbenzene	16.58	105	238550	1.84 ppb		97
63)	tert-butylbenzene	17.16	119	195881	1.66 ppb		99
64)	1,2,4-trimethylbenzene	17.25	105	232185	1.91 ppb		97
65)	sec-butylbenzene	17.55	105	298269	1.70 ppb		100
66)	1,3-dichlorobenzene	17.73	146	111128	2.25 ppb		95
67)	4-isopropyltoluene	17.83	119	237713	1.60 ppb		98
68)	1,4-dichlorobenzene	17.89	146	109663	2.46 ppb		99
69)	1,2-dichlorobenzene	18.56	146	85340	2.58 ppb		97
70)	n-butylbenzene	18.58	91	221488	1.70 ppb		97
71)	1,2-dibromo-3-chloropropan	19.98	75	25244	22.23 ppb		97
72)	1,2,4-trichlorobenzene	21.51	180	40415	2.88 ppb		95
73)	hexachlorobutadiene	21.86	225	22431	1.72 ppb		96
74)	naphthalene	21.95	128	53361	3.92 ppb		98
75)	trans-1,4-Dichloro-2-buten	16.15	89	24744	29.14 ppb		84
76)	1,2,3-trichlorobenzene	22.41	180	28841	3.80 ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703405.D Vial: 5
Acq On : 4 Jul 2005 12:27 pm Operator: RNP
Sample : VSTD002 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

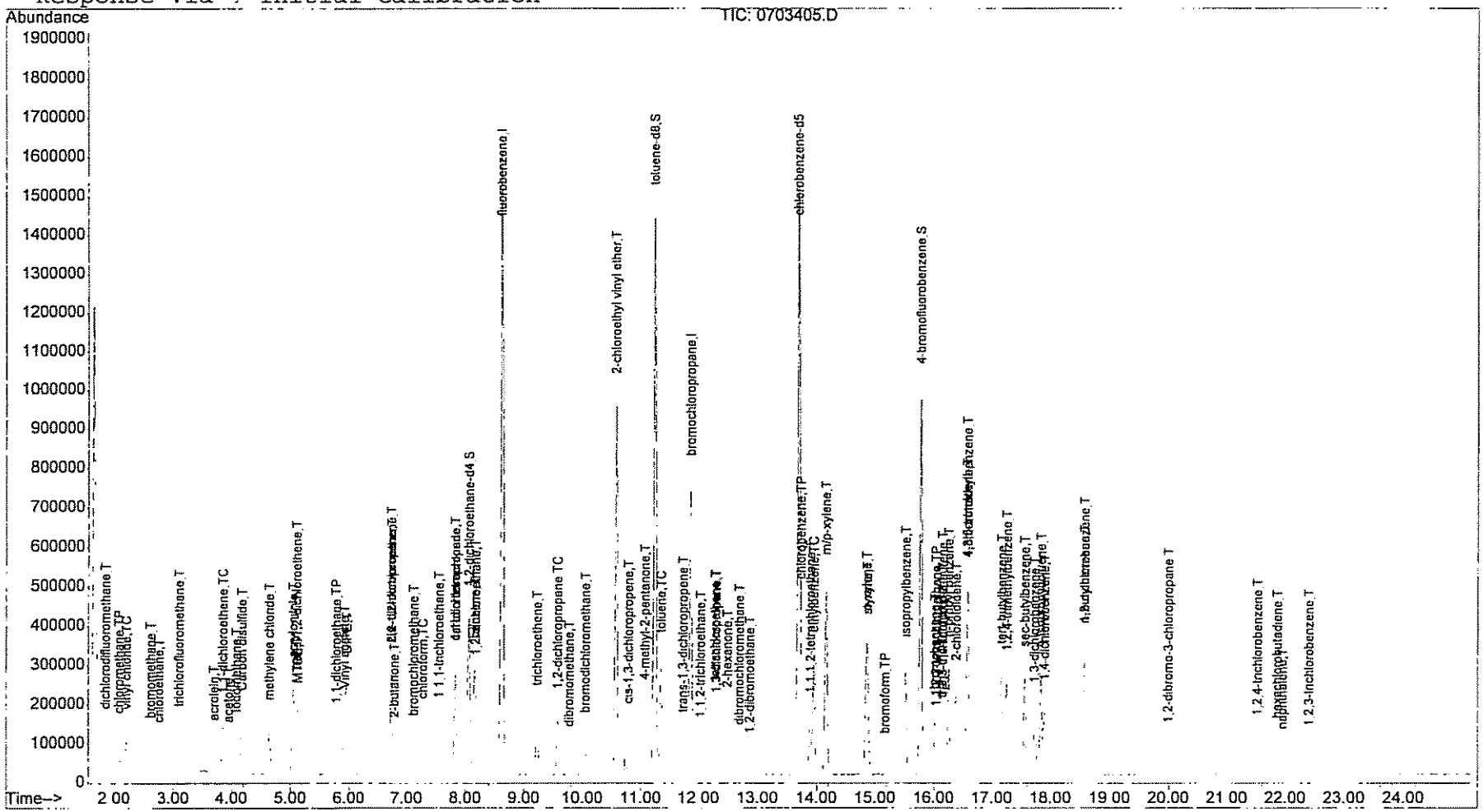
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	127755	2.80 ppb	96
78) DIPE	5.96	45	326746	2.44 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703405.D Vial: 5
Acq On : 4 Jul 2005 12:27 pm Operator: RNP
Sample : VSTD002 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703406.D Vial: 6
Acq On : 4 Jul 2005 12:58 pm Operator: RNP
Sample : VSTD005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.62	96	2057752	10.00	ppb		-0.05
39) bromochloropropane	11.86	79	203373	10.00	ppb		-0.04
53) chlorobenzene-d5	13.69	117	1356603	10.00	ppb		-0.04
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.07	65	426853	12.36	ppb		-0.05
Spiked Amount 10.000			Recovery	=	123.60%		
33) toluene-d8	11.24	98	1454641	9.84	ppb		-0.04
Spiked Amount 10.000			Recovery	=	98.40%		
49) 4-bromofluorobenzene	15.77	95	591206	9.05	ppb		-0.04
Spiked Amount 10.000			Recovery	=	90.50%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	198087m	5.17	ppb		
3) chloromethane	2.07	50	235951m	5.31	ppb		
4) vinyl chloride	2.21	62	225050m	5.11	ppb		
5) bromomethane	2.62	94	121922	7.28	ppb		94
6) chloroethane	2.76	64	132713	4.55	ppb		98
7) trichlorofluoromethane	3.10	101	231508	4.68	ppb		99
8) acrolein	3.69	56	163573	140.91	ppb		99
9) 1,1-dichloroethene	3.85	96	154404	5.32	ppb		89
10) acetone	3.95	43	198494	82.40	ppb		99
11) methylene chloride	4.64	84	154982	5.54	ppb		93
12) trans-1,2-dichloroethene	5.10	96	188976	4.93	ppb		96
13) acrylonitrile	5.04	53	618092	208.80	ppb		99
14) 1,1-dichloroethane	5.78	63	362395	4.78	ppb		98
15) 2,2-dichloropropane	6.74	77	256628	5.59	ppb		100
16) cis-1,2-dichloroethene	6.74	96	181895	5.37	ppb		98
17) 2-butanone	6.79	43	257679	61.46	ppb		96
18) bromochloromethane	7.12	128	59369	8.19	ppb	#	89
19) chloroform	7.28	83	296555	4.96	ppb		97
20) 1,1,1-trichloroethane	7.55	97	260303	4.20	ppb		98
21) carbon tetrachloride	7.83	117	223714	5.51	ppb		95
22) 1,1-dichloropropene	7.83	75	253218	4.41	ppb		98
24) benzene	8.16	78	730755	5.12	ppb		100
25) 1,2-dichloroethane	8.19	62	157145	5.75	ppb		97
26) trichloroethene	9.23	95	178923	4.67	ppb		92
27) 1,2-dichloropropane	9.57	63	169543	5.58	ppb		95
28) dibromomethane	9.76	93	55467	7.04	ppb		98
29) bromodichloromethane	10.05	83	167967	5.84	ppb		99
30) 2-chloroethyl vinyl ether	10.57	106	338403	40.18	ppb		95
31) cis-1,3-dichloropropene	10.80	75	205270	6.05	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703406.D Vial: 6
Acq On : 4 Jul 2005 12:58 pm Operator: RNP
Sample : VSTD005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
32)	4-methyl-2-pentanone	11.07	43	410327	40.60 ppb	98
34)	toluene	11.35	92	432262	5.15 ppb	100
35)	Iodomethane	4.08	142	306881	8.81 ppb	96
36)	trans-1,3-dichloropropene	11.73	75	147767	6.65 ppb	94
37)	Vinyl acetate	5.91	43	931517	17.27 ppb	99
38)	Carbon disulfide	4.18	76	676147	5.05 ppb	99
40)	1,1,2-trichloroethane	12.03	83	62989	5.55 ppb	96
41)	tetrachloroethene	12.27	166	159901	3.76 ppb	95
42)	1,3-dichloropropane	12.31	76	149077	5.38 ppb	100
43)	2-hexanone	12.49	43	368536	47.02 ppb	97
44)	dibromochloromethane	12.69	129	95268	6.31 ppb	99
45)	1,2-dibromoethane	12.87	107	68197	5.60 ppb	96
46)	chlorobenzene	13.74	112	401435	4.76 ppb	96
47)	1,1,1,2-tetrachloroethane	13.89	131	127749	5.33 ppb	95
48)	bromoform	15.18	173	43815	9.13 ppb	94
50)	bromobenzene	16.02	156	121878	5.43 ppb	99
51)	1,1,2,2-tetrachloroethane	16.05	83	69357	6.06 ppb	98
52)	1,2,3-trichloropropane	16.15	75	166568	10.18 ppb	92
54)	ethylbenzene	13.95	91	773641	4.20 ppb	100
55)	m/p-xylene	14.15	106	531694	8.01 ppb	97
56)	styrene	14.87	104	353378	4.33 ppb	100
57)	o-xylene	14.85	106	241849	4.42 ppb	96
58)	isopropylbenzene	15.51	105	664756	3.95 ppb	99
59)	n-propyl benzene	16.25	91	812258	3.72 ppb	99
60)	2-chlorotoluene	16.38	126	140877	4.63 ppb	96
61)	4-chlorotoluene	16.58	126	141146	4.38 ppb	96
62)	1,3,5-trimethylbenzene	16.58	105	532318	4.35 ppb	99
63)	tert-butylbenzene	17.16	119	432133	3.64 ppb	100
64)	1,2,4-trimethylbenzene	17.25	105	508605	4.17 ppb	98
65)	sec-butylbenzene	17.56	105	660107	3.75 ppb	100
66)	1,3-dichlorobenzene	17.73	146	243232	4.90 ppb	99
67)	4-isopropyltoluene	17.84	119	528292	3.54 ppb	98
68)	1,4-dichlorobenzene	17.90	146	235313	5.64 ppb	98
69)	1,2-dichlorobenzene	18.56	146	185912	5.60 ppb	98
70)	n-butylbenzene	18.58	91	507868	3.89 ppb	100
71)	1,2-dibromo-3-chloropropan	19.99	75	54371	47.67 ppb	93
72)	1,2,4-trichlorobenzene	21.52	180	89599	6.36 ppb	94
73)	hexachlorobutadiene	21.87	225	48656	3.72 ppb	94
74)	naphthalene	21.95	128	113747	8.31 ppb	99
75)	trans-1,4-Dichloro-2-buten	16.15	89	56458	60.77 ppb	89
76)	1,2,3-trichlorobenzene	22.41	180	62851	8.24 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703406.D Vial: 6
Acq On : 4 Jul 2005 12:58 pm Operator: RNP
Sample : VSTD005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

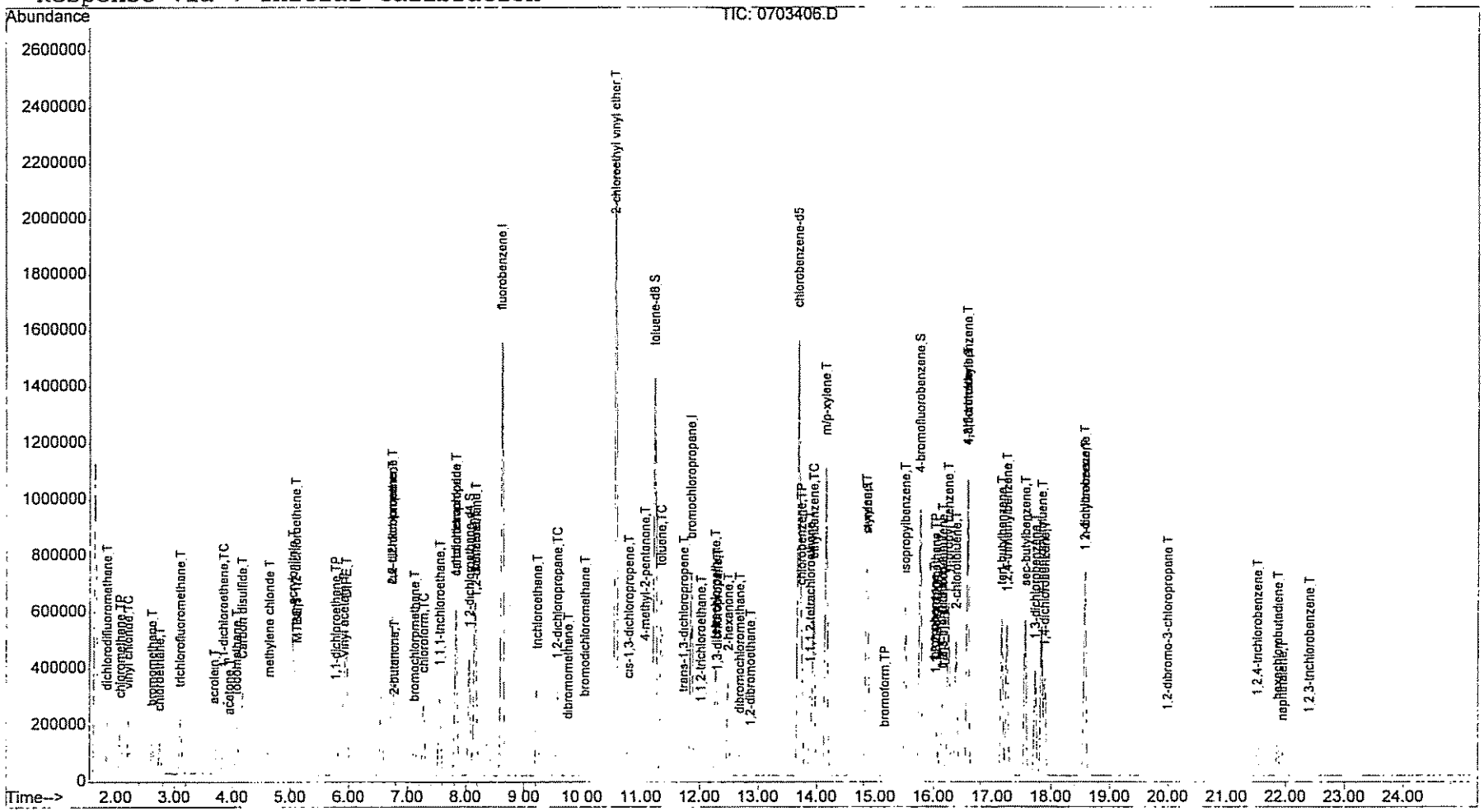
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	287392	6.28 ppb	99
78) DIPE	5.96	45	744066	5.53 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703406.D Vial: 6
Acq On : 4 Jul 2005 12:58 pm Operator: RNP
Sample : VSTD005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:04 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703408.D Vial: 8
Acq On : 4 Jul 2005 2:03 pm Operator: RNP
Sample : VSTD025 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.62	96	2080372	10.00	ppb	-0.05
39) bromochloropropane	11.86	79	203322	10.00	ppb	-0.04
53) chlorobenzene-d5	13.69	117	1357198	10.00	ppb	-0.04
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	431619	12.36	ppb	-0.05
Spiked Amount 10.000			Recovery	=	123.60%	
33) toluene-d8	11.24	98	1452773	9.72	ppb	-0.04
Spiked Amount 10.000			Recovery	=	97.20%	
49) 4-bromofluorobenzene	15.77	95	595900	9.12	ppb	-0.04
Spiked Amount 10.000			Recovery	=	91.20%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	1045524m	27.01	ppb		
3) chloromethane	2.07	50	1275228m	28.37	ppb		
4) vinyl chloride	2.21	62	1183832m	26.56	ppb		
5) bromomethane	2.59	94	529910m	24.75	ppb		
6) chloroethane	2.74	64	691701m	24.42	ppb		
7) trichlorofluoromethane	3.09	101	1229232m	23.35	ppb		
8) acrolein	3.70	56	1101843	938.85	ppb		100
9) 1,1-dichloroethene	3.85	96	775364	27.23	ppb	#	84
10) acetone	3.95	43	889241	382.77	ppb		97
11) methylene chloride	4.63	84	742598	26.24	ppb		94
12) trans-1,2-dichloroethene	5.09	96	931870	24.03	ppb		97
13) acrylonitrile	5.04	53	3189741	1065.82	ppb		98
14) 1,1-dichloroethane	5.78	63	1799181	23.49	ppb		98
15) 2,2-dichloropropane	6.74	77	1222563	26.33	ppb		98
16) cis-1,2-dichloroethene	6.74	96	887849	25.92	ppb		94
17) 2-butanone	6.79	43	1248719	294.60	ppb		99
18) bromochloromethane	7.12	128	296308	40.43	ppb	#	91
19) chloroform	7.27	83	1475843	24.42	ppb		100
20) 1,1,1-trichloroethane	7.56	97	1313172	20.94	ppb		99
21) carbon tetrachloride	7.83	117	1127755	27.47	ppb		99
22) 1,1-dichloropropene	7.83	75	1297880	23.40	ppb		99
24) benzene	8.16	78	3673863	26.55	ppb		100
25) 1,2-dichloroethane	8.19	62	787187	28.50	ppb		98
26) trichloroethene	9.22	95	902000	24.34	ppb		100
27) 1,2-dichloropropane	9.58	63	856684	27.89	ppb		94
28) dibromomethane	9.77	93	287227	36.07	ppb		97
29) bromodichloromethane	10.05	83	868988	29.88	ppb		99
30) 2-chloroethyl vinyl ether	10.58	106	1770133	195.05	ppb		93
31) cis-1,3-dichloropropene	10.80	75	1034555	30.18	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703408.D Vial: 8
Acq On : 4 Jul 2005 2:03 pm Operator: RNP
Sample : VSTD025 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
32) 4-methyl-2-pentanone	11.07	43	2016812	197.36 ppb	98
34) toluene	11.35	92	2182127	26.48 ppb	98
35) Iodomethane	4.07	142	1540922	40.97 ppb	95
36) trans-1,3-dichloropropene	11.73	75	744814	33.14 ppb	97
37) Vinyl acetate	5.91	43	4748479	87.08 ppb	98
38) Carbon disulfide	4.18	76	3357844	26.11 ppb	99
40) 1,1,2-trichloroethane	12.03	83	321035	28.30 ppb	97
41) tetrachloroethene	12.28	166	801364	20.56 ppb	98
42) 1,3-dichloropropane	12.31	76	744529	26.88 ppb	100
43) 2-hexanone	12.48	43	1762483	224.92 ppb	98
44) dibromochloromethane	12.70	129	473156	31.34 ppb	98
45) 1,2-dibromoethane	12.88	107	348332	28.60 ppb	99
46) chlorobenzene	13.74	112	2035296	25.35 ppb	96
47) 1,1,1,2-tetrachloroethane	13.89	131	629116	26.27 ppb	100
48) bromoform	15.18	173	222198	46.34 ppb	100
50) bromobenzene	16.03	156	613086	28.33 ppb	93
51) 1,1,2,2-tetrachloroethane	16.05	83	346127	30.23 ppb	100
52) 1,2,3-trichloropropane	16.16	75	814278	45.44 ppb	93
54) ethylbenzene	13.95	91	3917141	21.92 ppb	99
55) m/p-xylene	14.16	106	2679099	40.36 ppb	97
56) styrene	14.88	104	1786372	21.88 ppb	100
57) o-xylene	14.85	106	1222566	22.35 ppb	97
58) isopropylbenzene	15.52	105	3407704	21.02 ppb	99
59) n-propyl benzene	16.25	91	4109930	18.84 ppb	99
60) 2-chlorotoluene	16.39	126	701781	24.00 ppb	96
61) 4-chlorotoluene	16.59	126	706797	21.94 ppb	93
62) 1,3,5-trimethylbenzene	16.58	105	2704740	22.92 ppb	98
63) tert-butylbenzene	17.16	119	2152949	18.15 ppb	99
64) 1,2,4-trimethylbenzene	17.25	105	2673984	21.93 ppb	99
65) sec-butylbenzene	17.56	105	3360045	19.07 ppb	100
66) 1,3-dichlorobenzene	17.73	146	1215366	24.48 ppb	99
67) 4-isopropyltoluene	17.84	119	2727857	18.26 ppb	98
68) 1,4-dichlorobenzene	17.90	146	1168245	29.35 ppb	99
69) 1,2-dichlorobenzene	18.56	146	911307	27.46 ppb	99
70) n-butylbenzene	18.58	91	2594067	19.84 ppb	98
71) 1,2-dibromo-3-chloropropan	19.98	75	253847	222.44 ppb	95
72) 1,2,4-trichlorobenzene	21.52	180	458057	32.48 ppb	100
73) hexachlorobutadiene	21.87	225	245617	18.77 ppb	97
74) naphthalene	21.95	128	587135	42.88 ppb	98
75) trans-1,4-Dichloro-2-buten	16.16	89	273625	278.05 ppb	92
76) 1,2,3-trichlorobenzene	22.40	180	309961	40.60 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703408.D Vial: 8
Acq On : 4 Jul 2005 2:03 pm Operator: RNP
Sample : VSTD025 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

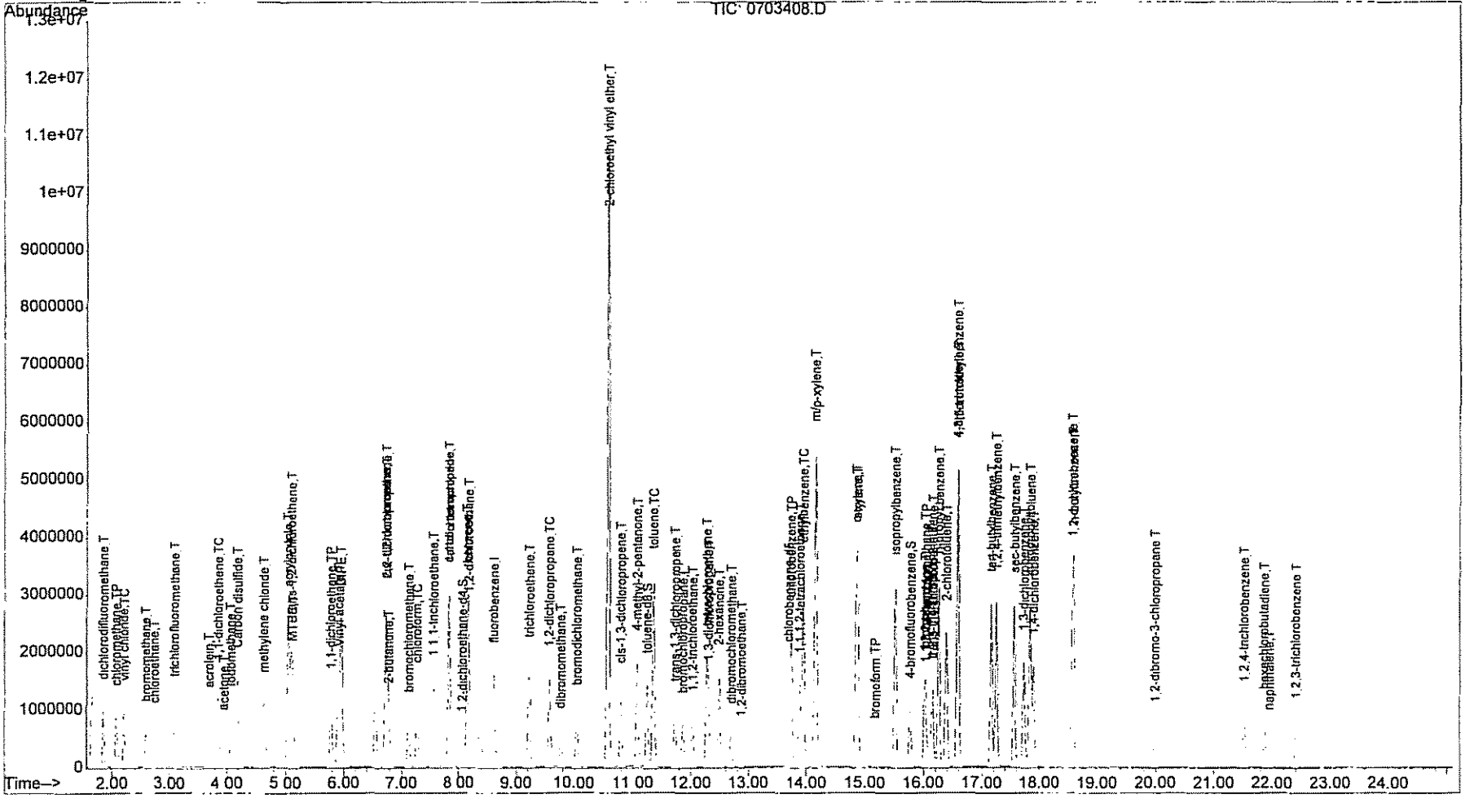
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	1440461	31.46 ppb	97
78) DIPE	5.95	45	3781277	28.08 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703408.D Vial: 8
Acq On : 4 Jul 2005 2:03 pm Operator: RNP
Sample : VSTD025 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703409.D Vial: 9
Acq On : 4 Jul 2005 2:35 pm Operator: RNP
Sample : VSTD050 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	2076303	10.00	ppb	-0.05
39) bromochloropropane	11.87	79	202029	10.00	ppb	-0.04
53) chlorobenzene-d5	13.69	117	1337156	10.00	ppb	-0.05
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	416694	11.96	ppb	-0.06
Spiked Amount 10.000			Recovery	=	119.60%	
33) toluene-d8	11.24	98	1440507	9.66	ppb	-0.05
Spiked Amount 10.000			Recovery	=	96.60%	
49) 4-bromofluorobenzene	15.77	95	578742	8.92	ppb	-0.05
Spiked Amount 10.000			Recovery	=	89.20%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.85	85	2156629m	55.81	ppb		
3) chloromethane	2.08	50	2588251m	57.70	ppb		
4) vinyl chloride	2.20	62	2419686m	54.40	ppb		
5) bromomethane	2.59	94	677762m	31.16	ppb		
6) chloroethane	2.72	64	1334902m	47.43	ppb		
7) trichlorofluoromethane	3.09	101	2503982m	47.35	ppb		
8) acrolein	3.70	56	2515157	2147.29	ppb		98
9) 1,1-dichloroethene	3.85	96	1475243	52.10	ppb	#	85
10) acetone	3.95	43	1604399	696.11	ppb		96
11) methylene chloride	4.64	84	1409265	49.89	ppb		92
12) trans-1,2-dichloroethene	5.09	96	1760500	45.49	ppb		94
13) acrylonitrile	5.05	53	6320017	2115.90	ppb		98
14) 1,1-dichloroethane	5.78	63	3400478	44.49	ppb		98
15) 2,2-dichloropropane	6.74	77	2293290	49.50	ppb		96
16) cis-1,2-dichloroethene	6.74	96	1700615	49.75	ppb		93
17) 2-butanone	6.80	43	2213250	523.17	ppb		100
18) bromochloromethane	7.12	128	549639	75.13	ppb	#	90
19) chloroform	7.28	83	2787577	46.22	ppb		99
20) 1,1,1-trichloroethane	7.55	97	2492131	39.81	ppb		99
21) carbon tetrachloride	7.83	117	2104248	51.36	ppb		97
22) 1,1-dichloropropene	7.83	75	2448352	44.45	ppb		99
24) benzene	8.16	78	6949540	50.57	ppb		99
25) 1,2-dichloroethane	8.18	62	1442365	52.33	ppb		97
26) trichloroethene	9.23	95	1717560	46.69	ppb		96
27) 1,2-dichloropropane	9.58	63	1603915	52.31	ppb		95
28) dibromomethane	9.77	93	530724	66.77	ppb		94
29) bromodichloromethane	10.05	83	1610002	55.47	ppb		99
30) 2-chloroethyl vinyl ether	10.59	106	3369526	369.23	ppb		91
31) cis-1,3-dichloropropene	10.79	75	1920781	56.13	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703409.D Vial: 9
Acq On : 4 Jul 2005 2:35 pm Operator: RNP
Sample : VSTD050 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32)	4-methyl-2-pentanone	11.07	43	3579518	350.97	ppb	98
34)	toluene	11.36	92	4091655	49.90	ppb	100
35)	Iodomethane	4.07	142	2915077	77.03	ppb	94
36)	trans-1,3-dichloropropene	11.73	75	1379172	61.48	ppb	99
37)	Vinyl acetate	5.91	43	8531560	156.76	ppb	98
38)	Carbon disulfide	4.17	76	6397876	50.15	ppb	100
40)	1,1,2-trichloroethane	12.04	83	595489	52.84	ppb	97
41)	tetrachloroethene	12.28	166	1517992	39.58	ppb	96
42)	1,3-dichloropropane	12.31	76	1355474	49.25	ppb	100
43)	2-hexanone	12.49	43	3082115	395.84	ppb	97
44)	dibromochloromethane	12.70	129	878888	58.58	ppb	97
45)	1,2-dibromoethane	12.87	107	641503	53.01	ppb	96
46)	chlorobenzene	13.74	112	3800902	47.91	ppb	96
47)	1,1,1,2-tetrachloroethane	13.89	131	1173616	49.32	ppb	99
48)	bromoform	15.18	173	400442	84.04	ppb	99
50)	bromobenzene	16.03	156	1127854	52.67	ppb	94
51)	1,1,2,2-tetrachloroethane	16.05	83	619260	54.44	ppb	99
52)	1,2,3-trichloropropane	16.15	75	1449683	80.54	ppb	93
54)	ethylbenzene	13.96	91	7329326	41.78	ppb	99
55)	m/p-xylene	14.16	106	4980887	76.17	ppb	96
56)	styrene	14.88	104	3331058	41.41	ppb	100
57)	o-xylene	14.85	106	2282070	42.34	ppb	96
58)	isopropylbenzene	15.52	105	6395500	40.21	ppb	99
59)	n-propyl benzene	16.26	91	7688425	35.77	ppb	99
60)	2-chlorotoluene	16.39	126	1306553	45.55	ppb	95
61)	4-chlorotoluene	16.59	126	1298112	40.89	ppb	92
62)	1,3,5-trimethylbenzene	16.59	105	4940995	42.68	ppb	98
63)	tert-butylbenzene	17.17	119	4071185	34.84	ppb	99
64)	1,2,4-trimethylbenzene	17.26	105	4896743	40.76	ppb	99
65)	sec-butylbenzene	17.56	105	6309411	36.34	ppb	99
66)	1,3-dichlorobenzene	17.74	146	2222693	45.45	ppb	99
67)	4-isopropyltoluene	17.84	119	5066128	34.42	ppb	99
68)	1,4-dichlorobenzene	17.90	146	2154724	55.25	ppb	99
69)	1,2-dichlorobenzene	18.57	146	1671657	51.13	ppb	97
70)	n-butylbenzene	18.59	91	4782525	37.13	ppb	96
71)	1,2-dibromo-3-chloropropan	19.99	75	452577	402.53	ppb	87
72)	1,2,4-trichlorobenzene	21.52	180	841186	60.53	ppb	99
73)	hexachlorobutadiene	21.87	225	455155	35.31	ppb	100
74)	naphthalene	21.96	128	1079891	80.05	ppb	99
75)	trans-1,4-Dichloro-2-buten	16.16	89	488530	500.41	ppb	87
76)	1,2,3-trichlorobenzene	22.41	180	569201	75.67	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4070405\0703409.D Vial: 9
Acq On : 4 Jul 2005 2:35 pm Operator: RNP
Sample : VSTD050 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Thu Jun 02 08:11:28 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

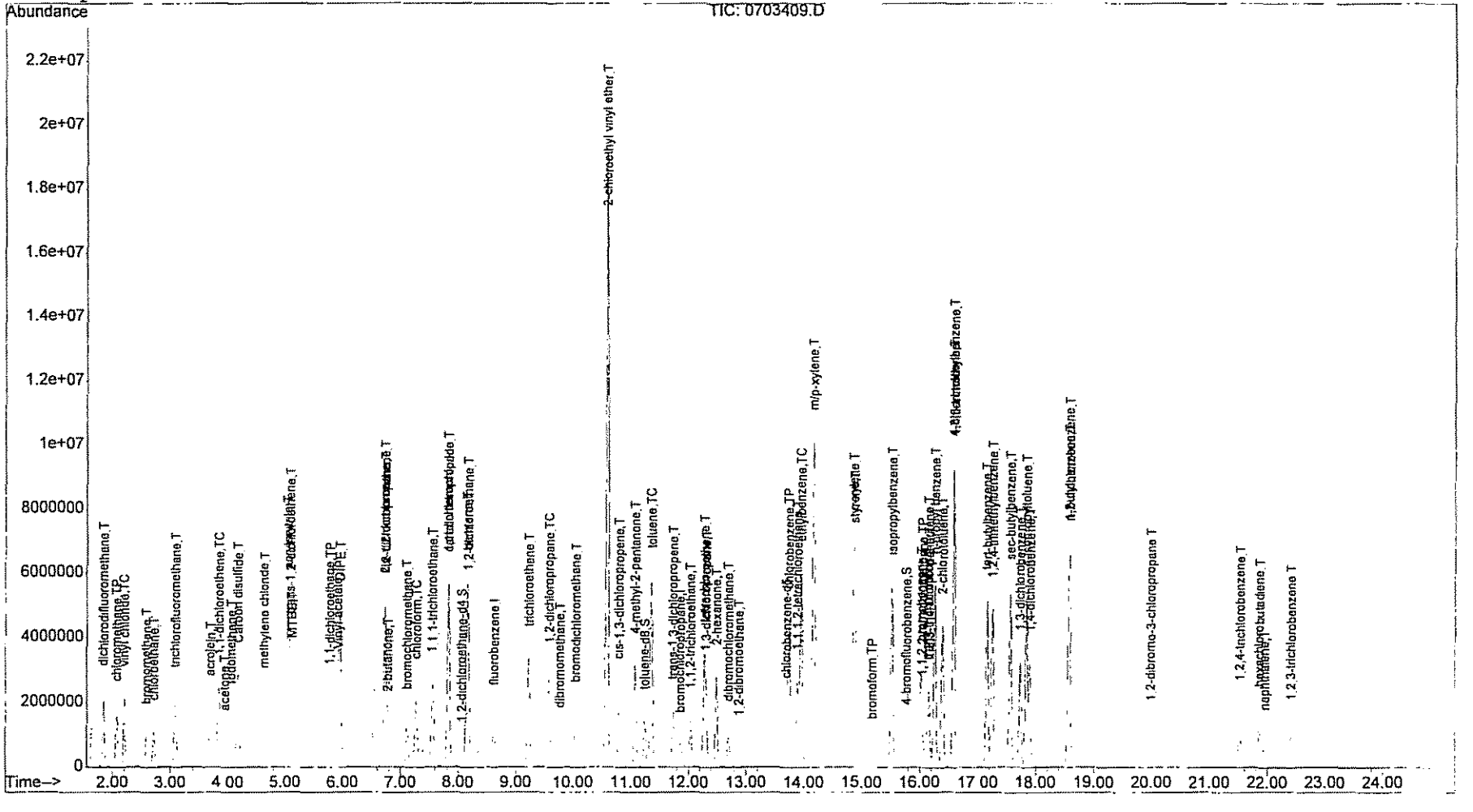
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.13	73	2651559	58.78 ppb	98
78) DIPE	5.96	45	6904643	52.05 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4070405\0703409.D Vial: 9
Acq On : 4 Jul 2005 2:35 pm Operator: RNP
Sample : VSTD050 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 4 15:05 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



8260 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 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	88	0.00
2	T	dichlorodifluoromethane	0.215	0.236	-9.8	107	0.02
3	TP	chloromethane	0.260	0.220	15.4	84	0.02
4	TC	vinyl chloride	0.250	0.222	11.2	89	0.02
5	T	bromomethane	0.130	0.119	8.5	88	0.02
6	T	chloroethane	0.142	0.126	11.3	86	0.00
7	T	trichlorofluoromethane	0.250	0.226	9.6	88	0.02
8	T	acrolein	0.008	0.004	50.0#	51	0.02
9	TC	1,1-dichloroethene	0.156	0.163	-4.5	96	0.02
10	T	acetone	0.044	0.021	52.3#	47#	0.00
11	T	methylene chloride	0.159	0.158	0.6	92	0.02
12	T	trans-1,2-dichloroethene	0.191	0.197	-3.1	94	0.00
13	T	acrylonitrile	0.027	0.019	29.6#	71	0.00
14	TP	1,1-dichloroethane	0.373	0.359	3.8	90	0.02
15	T	2,2-dichloropropane	0.264	0.262	0.8	92	0.00
16	T	cis-1,2-dichloroethene	0.186	0.188	-1.1	94	0.00
17	T	2-butanone	0.047	0.030	36.2#	52	0.00
18	T	bromochloromethane	0.058	0.059	-1.7	90	0.00
19	TC	chloroform	0.306	0.292	4.6	89	0.00
20	T	1,1,1-trichloroethane	0.266	0.262	1.5	91	0.00
21	T	carbon tetrachloride	0.226	0.229	-1.3	92	0.00
22	T	1,1-dichloropropene	0.262	0.255	2.7	91	0.00
23	S	1,2-dichloroethane-d4	0.207	0.179	13.5	76	0.00
24	T	benzene	0.751	0.751	0.0	93	0.00
25	T	1,2-dichloroethane	0.161	0.139	13.7	80	0.00
26	T	trichloroethene	0.182	0.182	0.0	92	0.00
27	TC	1,2-dichloropropane	0.175	0.161	8.0	86	0.00
28	T	dibromomethane	0.057	0.054	5.3	88	0.00
29	T	bromodichloromethane	0.180	0.159	11.7	85	0.00
30	T	2-chloroethyl vinyl ether	0.149	0.107	28.2#	72	0.00
31	T	cis-1,3-dichloropropene	0.212	0.186	12.3	82	0.00
32	T	4-methyl-2-pentanone	0.093	0.061	34.4#	67	0.00
33	S	toluene-d8	0.704	0.692	1.7	86	0.00
34	TC	toluene	0.446	0.444	0.4	93	0.00
35	T	Iodomethane	0.312	0.329	-5.4	97	0.02
36	T	trans-1,3-dichloropropene	0.157	0.133	15.3	81	0.00
37	T	Vinyl acetate	0.413	0.322	22.0	78	0.00
38	T	Carbon disulfide	0.693	0.703	-1.4	94	0.02
39	I	bromochloropropane	1.000	1.000	0.0	80	0.00
40	T	1,1,2-trichloroethane	0.678	0.645	4.9	83	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 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	1.635	1.963	-20.1	100	0.00
42	T	1,3-dichloropropane	1.604	1.477	7.9	80	0.00
43	T	2-hexanone	0.827	0.461	44.3#	51	0.00
44	T	dibromochloromethane	1.009	0.959	5.0	82	0.00
45	T	1,2-dibromoethane	0.732	0.733	-0.1	87	0.00
46	TP	chlorobenzene	4.301	4.572	-6.3	92	0.00
47	T	1,1,1,2-tetrachloroethane	1.329	1.407	-5.9	89	0.00
48	TP	bromoform	0.462	0.429	7.1	80	0.00
49	S	4-bromofluorobenzene	2.896	2.909	-0.4	80	0.00
50	T	bromobenzene	1.281	1.314	-2.6	88	0.00
51	TP	1,1,2,2-tetrachloroethane	0.780	0.677	13.2	79	0.00
52	T	1,2,3-trichloropropane	1.865	1.494	19.9	73	0.00
53		chlorobenzene-d5	1.000	1.000	0.0	85	0.00
54	TC	ethylbenzene	1.227	1.248	-1.7	93	0.00
55	T	m/p-xylene	0.423	0.439	-3.8	95	0.00
56	T	styrene	0.569	0.555	2.5	91	0.00
57	T	o-xylene	0.383	0.388	-1.3	93	0.00
58	T	isopropylbenzene	1.057	1.079	-2.1	94	0.00
59	T	n-propyl benzene	1.322	1.337	-1.1	95	0.00
60	T	2-chlorotoluene	0.225	0.228	-1.3	94	0.00
61	T	4-chlorotoluene	0.228	0.231	-1.3	95	0.00
62	T	1,3,5-trimethylbenzene	0.850	0.865	-1.8	94	0.00
63	T	tert-butylbenzene	0.697	0.720	-3.3	96	0.00
64	T	1,2,4-trimethylbenzene	0.826	0.822	0.5	94	0.00
65	T	sec-butylbenzene	1.065	1.109	-4.1	97	0.00
66	T	1,3-dichlorobenzene	0.396	0.392	1.0	93	0.00
67	T	4-isopropyltoluene	0.857	0.896	-4.6	98	0.00
68	T	1,4-dichlorobenzene	0.388	0.376	3.1	92	0.00
69	T	1,2-dichlorobenzene	0.303	0.284	6.3	88	0.00
70	T	n-butylbenzene	0.809	0.831	-2.7	95	0.00
71	T	1,2-dibromo-3-chloropropane	0.018	0.012	33.3#	64	0.00
72	T	1,2,4-trichlorobenzene	0.143	0.121	15.4	78	0.00
73	T	hexachlorobutadiene	0.076	0.086	-13.2	103	0.00
74	T	naphthalene	0.198	0.117	40.9#	59	0.00
75	T	trans-1,4-Dichloro-2-butene	0.018	0.014	22.2	71	0.00
76	T	1,2,3-trichlorobenzene	0.100	0.074	26.0#	68	0.00
77	T	MTBE	0.458	0.375	18.1	76	0.00
78	T	DIPE	1.178	1.001	15.0	78	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 12:19 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	1807754	10.00	ppb	0.00
39) bromochloropropane	11.87	79	162396	10.00	ppb	0.00
53) chlorobenzene-d5	13.69	117	1157382	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	323499	8.63	ppb	0.00
Spiked Amount 10.000			Recovery	=	86.30%	
33) toluene-d8	11.25	98	1251568	9.84	ppb	0.00
Spiked Amount 10.000			Recovery	=	98.40%	
49) 4-bromofluorobenzene	15.78	95	472433	10.05	ppb	0.00
Spiked Amount 10.000			Recovery	=	100.50%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.87	85	212893	5.81	ppb		99
3) chloromethane	2.08	50	198724	4.51	ppb		98
4) vinyl chloride	2.22	62	201078	4.84	ppb		98
5) bromomethane	2.64	94	107771	5.44	ppb		88
6) chloroethane	2.76	64	114103	4.72	ppb		98
7) trichlorofluoromethane	3.12	101	204699	4.79	ppb		99
8) acrolein	3.71	56	83142	70.22	ppb		98
9) 1,1-dichloroethene	3.87	96	147607	5.23	ppb	#	76
10) acetone	3.96	43	94157	11.58	ppb		100
11) methylene chloride	4.66	84	142518	4.97	ppb	#	83
12) trans-1,2-dichloroethene	5.11	96	178507	5.18	ppb		89
13) acrylonitrile	5.05	53	440465	96.66	ppb		99
14) 1,1-dichloroethane	5.80	63	324442	4.82	ppb		98
15) 2,2-dichloropropane	6.74	77	236409	4.95	ppb		96
16) cis-1,2-dichloroethene	6.74	96	170289	5.07	ppb		90
17) 2-butanone	6.79	43	133326	17.10	ppb		100
18) bromochloromethane	7.13	128	53496	5.13	ppb	#	81
19) chloroform	7.29	83	263901	4.77	ppb		96
20) 1,1,1-trichloroethane	7.56	97	237248	4.93	ppb		100
21) carbon tetrachloride	7.84	117	206628	5.05	ppb		98
22) 1,1-dichloropropene	7.84	75	230236	4.87	ppb		95
24) benzene	8.16	78	679109	5.00	ppb		99
25) 1,2-dichloroethane	8.19	62	125879	4.32	ppb		92
26) trichloroethene	9.23	95	164078	4.99	ppb		96
27) 1,2-dichloropropane	9.58	63	145455	4.60	ppb		95
28) dibromomethane	9.77	93	48872	4.74	ppb		91
29) bromodichloromethane	10.05	83	143364	4.40	ppb		95
30) 2-chloroethyl vinyl ether	10.58	106	242654	9.61	ppb		91
31) cis-1,3-dichloropropene	10.79	75	167872	4.37	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 12:19 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.07	43	274801	17.49	ppb		98
34)	toluene	11.35	92	401508	4.98	ppb		96
35)	Iodomethane	4.09	142	297261	5.28	ppb		92
36)	trans-1,3-dichloropropene	11.74	75	119957	4.21	ppb		100
37)	Vinyl acetate	5.92	43	728325	9.76	ppb	#	96
38)	Carbon disulfide	4.19	76	635170	5.07	ppb		99
40)	1,1,2-trichloroethane	12.03	83	52404	4.76	ppb		90
41)	tetrachloroethene	12.28	166	159414	6.01	ppb		98
42)	1,3-dichloropropane	12.31	76	119937	4.61	ppb		96
43)	2-hexanone	12.49	43	187140	13.95	ppb		97
44)	dibromochloromethane	12.69	129	77845	4.75	ppb		98
45)	1,2-dibromoethane	12.87	107	59510	5.01	ppb		91
46)	chlorobenzene	13.74	112	371248	5.32	ppb		94
47)	1,1,1,2-tetrachloroethane	13.89	131	114216	5.29	ppb		99
48)	bromoform	15.18	173	34837	4.64	ppb		100
50)	bromobenzene	16.02	156	106689	5.13	ppb		94
51)	1,1,2,2-tetrachloroethane	16.05	83	54988	4.77	ppb		94
52)	1,2,3-trichloropropane	16.15	75	121316	4.37	ppb		89
54)	ethylbenzene	13.95	91	721983	5.08	ppb		99
55)	m/p-xylene	14.16	106	507708	10.38	ppb		93
56)	styrene	14.88	104	321083	4.87	ppb		100
57)	o-xylene	14.85	106	224426	5.07	ppb		93
58)	isopropylbenzene	15.52	105	624363	5.10	ppb		100
59)	n-propyl benzene	16.25	91	773541	5.06	ppb		99
60)	2-chlorotoluene	16.39	126	132118	5.08	ppb		95
61)	4-chlorotoluene	16.58	126	133491	5.07	ppb		91
62)	1,3,5-trimethylbenzene	16.58	105	500589	5.09	ppb		100
63)	tert-butylbenzene	17.16	119	416461	5.17	ppb		97
64)	1,2,4-trimethylbenzene	17.24	105	475895	4.98	ppb		99
65)	sec-butylbenzene	17.56	105	641664	5.21	ppb		97
66)	1,3-dichlorobenzene	17.74	146	227051	4.96	ppb		95
67)	4-isopropyltoluene	17.84	119	518709	5.23	ppb		98
68)	1,4-dichlorobenzene	17.89	146	217546	4.85	ppb		97
69)	1,2-dichlorobenzene	18.56	146	164529	4.69	ppb		97
70)	n-butylbenzene	18.58	91	481174	5.14	ppb		93
71)	1,2-dibromo-3-chloropropan	19.98	75	34874	17.85	ppb		92
72)	1,2,4-trichlorobenzene	21.52	180	70208	4.23	ppb		100
73)	hexachlorobutadiene	21.86	225	49933	5.70	ppb		96
74)	naphthalene	21.95	128	67477	3.08	ppb		98
75)	trans-1,4-Dichloro-2-buten	16.16	89	40304	20.14	ppb		94
76)	1,2,3-trichlorobenzene	22.41	180	42988	3.72	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 12:19 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

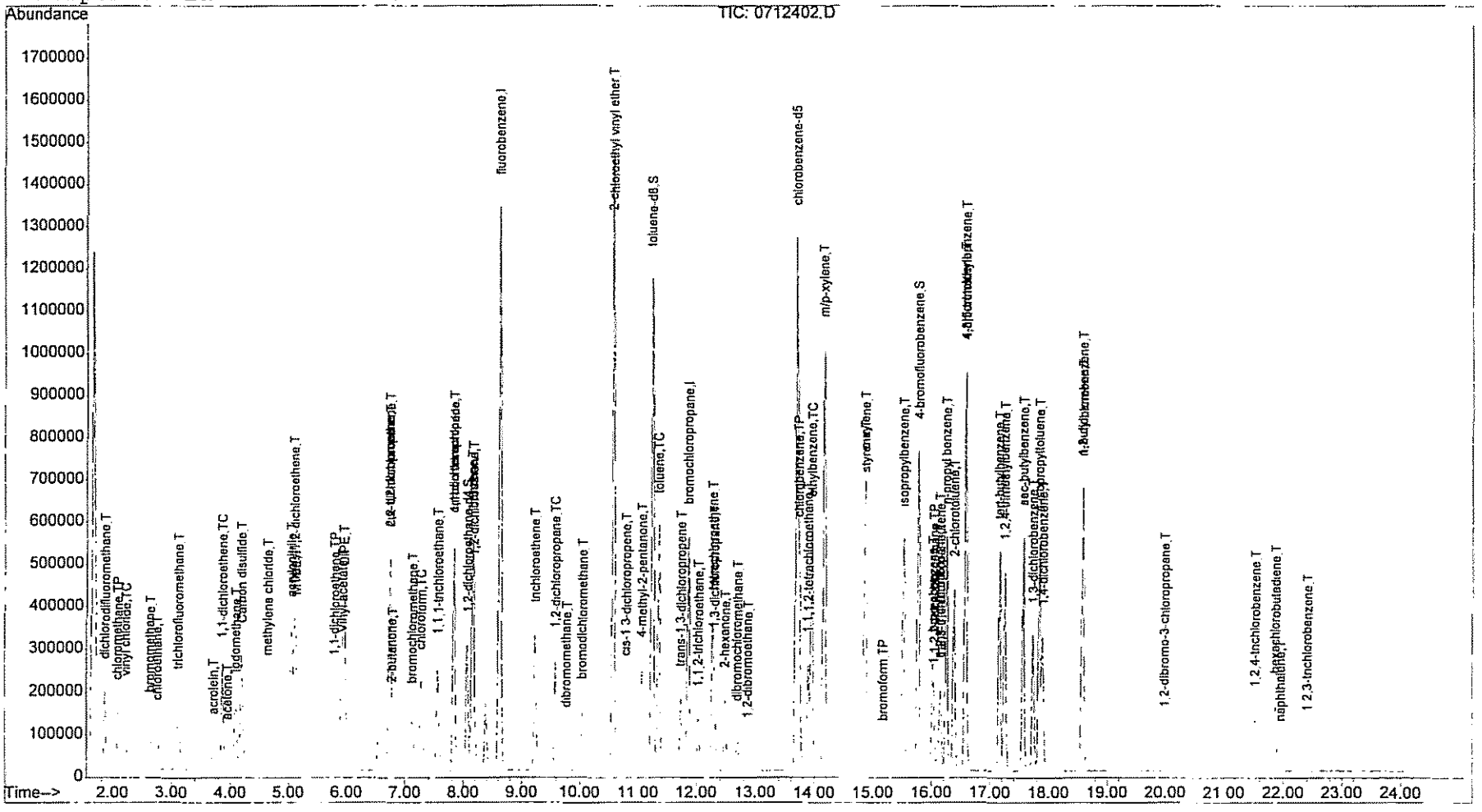
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.14	73	217157	4.09 ppb	95
78) DIPE	5.97	45	579512	4.25 ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712402.D Vial: 2
Acq On : 12 Jul 2005 11:54 am Operator: JTF
Sample : QCCHK005 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 12:19 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



8260 QC, Blanks Raw Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712404.D Vial: 4
Acq On : 12 Jul 2005 12:57 pm Operator: JTF
Sample : lcs4071205b/2 Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.63	96	1693865	10.00	ppb		0.01
39) bromochloropropane	11.87	79	156967	10.00	ppb		0.01
53) chlorobenzene-d5	13.69	117	1129476	10.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.07	65	304742	8.67	ppb		0.00
Spiked Amount 10.000			Recovery	=	86.70%		
33) toluene-d8	11.24	98	1210436	10.15	ppb		0.00
Spiked Amount 10.000			Recovery	=	101.50%		
49) 4-bromofluorobenzene	15.77	95	474854	10.45	ppb		0.00
Spiked Amount 10.000			Recovery	=	104.50%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.86	85	448204	12.90	ppb		98
3) chloromethane	2.08	50	408662	9.79	ppb		98
4) vinyl chloride	2.22	62	424177	10.83	ppb		99
5) bromomethane	2.63	94	225943	12.81	ppb		99
6) chloroethane	2.77	64	236686	10.66	ppb		97
7) trichlorofluoromethane	3.12	101	436980	10.81	ppb		98
8) acrolein	3.71	56	220578	157.51	ppb		99
9) 1,1-dichloroethene	3.87	96	254716	9.62	ppb	#	81
10) acetone	3.96	43	160137	25.37	ppb		96
11) methylene chloride	4.65	84	256768	9.55	ppb	#	87
12) trans-1,2-dichloroethene	5.11	96	317963	9.85	ppb		93
13) acrylonitrile	5.05	53	980714	234.68	ppb		99
14) 1,1-dichloroethane	5.79	63	572009	9.06	ppb		99
15) 2,2-dichloropropane	6.74	77	408773	9.14	ppb		98
16) cis-1,2-dichloroethene	6.75	96	294973	9.36	ppb		91
17) 2-butanone	6.80	43	245709	33.46	ppb		99
18) bromochloromethane	7.13	128	95180	9.75	ppb	#	79
19) chloroform	7.28	83	466424	9.00	ppb		99
20) 1,1,1-trichloroethane	7.57	97	417166	9.26	ppb		98
21) carbon tetrachloride	7.84	117	360901	9.42	ppb		97
22) 1,1-dichloropropene	7.84	75	410729	9.27	ppb		97
24) benzene	8.17	78	1211538	9.52	ppb		98
25) 1,2-dichloroethane	8.20	62	229606	8.41	ppb		95
26) trichloroethene	9.23	95	297733	9.66	ppb		95
27) 1,2-dichloropropane	9.59	63	262476	8.86	ppb		95
28) dibromomethane	9.77	93	85418	8.85	ppb		91
29) bromodichloromethane	10.05	83	259806	8.51	ppb		99
30) 2-chloroethyl vinyl ether	10.58	106	542771	23.92	ppb		89
31) cis-1,3-dichloropropene	10.80	75	309395	8.60	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712404.D Vial: 4
Acq On : 12 Jul 2005 12:57 pm Operator: JTF
Sample : lcs4071205b Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.07	43	507634	38.85	ppb		97
34)	toluene	11.36	92	731580	9.68	ppb		99
35)	Iodomethane	4.09	142	520074	9.85	ppb		92
36)	trans-1,3-dichloropropene	11.73	75	211304	7.92	ppb		95
37)	Vinyl acetate	5.92	43	1346437	19.26	ppb		96
38)	Carbon disulfide	4.20	76	1113928	9.49	ppb		99
40)	1,1,2-trichloroethane	12.04	83	98894	9.29	ppb		97
41)	tetrachloroethene	12.28	166	283795	11.06	ppb		95
42)	1,3-dichloropropane	12.31	76	221187	8.79	ppb		100
43)	2-hexanone	12.49	43	338959	30.40	ppb		96
44)	dibromochloromethane	12.70	129	146268	9.23	ppb		97
45)	1,2-dibromoethane	12.88	107	105196	9.16	ppb		98
46)	chlorobenzene	13.74	112	674741	10.00	ppb		96
47)	1,1,1,2-tetrachloroethane	13.89	131	205650	9.86	ppb		97
48)	bromoform	15.18	173	65424	9.01	ppb		99
50)	bromobenzene	16.03	156	203483	10.12	ppb	#	90
51)	1,1,2,2-tetrachloroethane	16.06	83	104407	10.08	ppb		97
52)	1,2,3-trichloropropane	16.16	75	225289	9.15	ppb		90
54)	ethylbenzene	13.95	91	1311788	9.47	ppb		98
55)	m/p-xylene	14.17	106	934377	19.57	ppb		93
56)	styrene	14.88	104	588782	9.16	ppb		100
57)	o-xylene	14.86	106	420643	9.74	ppb		92
58)	isopropylbenzene	15.53	105	1148404	9.62	ppb		100
59)	n-propyl benzene	16.25	91	1405373	9.41	ppb		100
60)	2-chlorotoluene	16.39	126	241667	9.52	ppb		93
61)	4-chlorotoluene	16.59	126	242989	9.45	ppb		90
62)	1,3,5-trimethylbenzene	16.59	105	881459	9.18	ppb		99
63)	tert-butylbenzene	17.16	119	755609	9.60	ppb		99
64)	1,2,4-trimethylbenzene	17.25	105	844607	9.05	ppb		99
65)	sec-butylbenzene	17.56	105	1141575	9.49	ppb		98
66)	1,3-dichlorobenzene	17.73	146	409704	9.17	ppb		99
67)	4-isopropyltoluene	17.84	119	920765	9.51	ppb		96
68)	1,4-dichlorobenzene	17.90	146	391633	8.94	ppb		99
69)	1,2-dichlorobenzene	18.57	146	295581	8.63	ppb		98
70)	n-butylbenzene	18.59	91	835578	9.15	ppb		94
71)	1,2-dibromo-3-chloropropan	19.99	75	66643	39.18	ppb	#	80
72)	1,2,4-trichlorobenzene	21.52	180	137151	8.48	ppb		94
73)	hexachlorobutadiene	21.87	225	88346	10.33	ppb		99
74)	naphthalene	21.96	128	152950	7.85	ppb		98
75)	trans-1,4-Dichloro-2-buten	16.16	89	74545	41.41	ppb		88
76)	1,2,3-trichlorobenzene	22.41	180	89835	7.96	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712404.D Vial: 4
Acq On : 12 Jul 2005 12:57 pm Operator: JTF
Sample : lcs4071205b Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

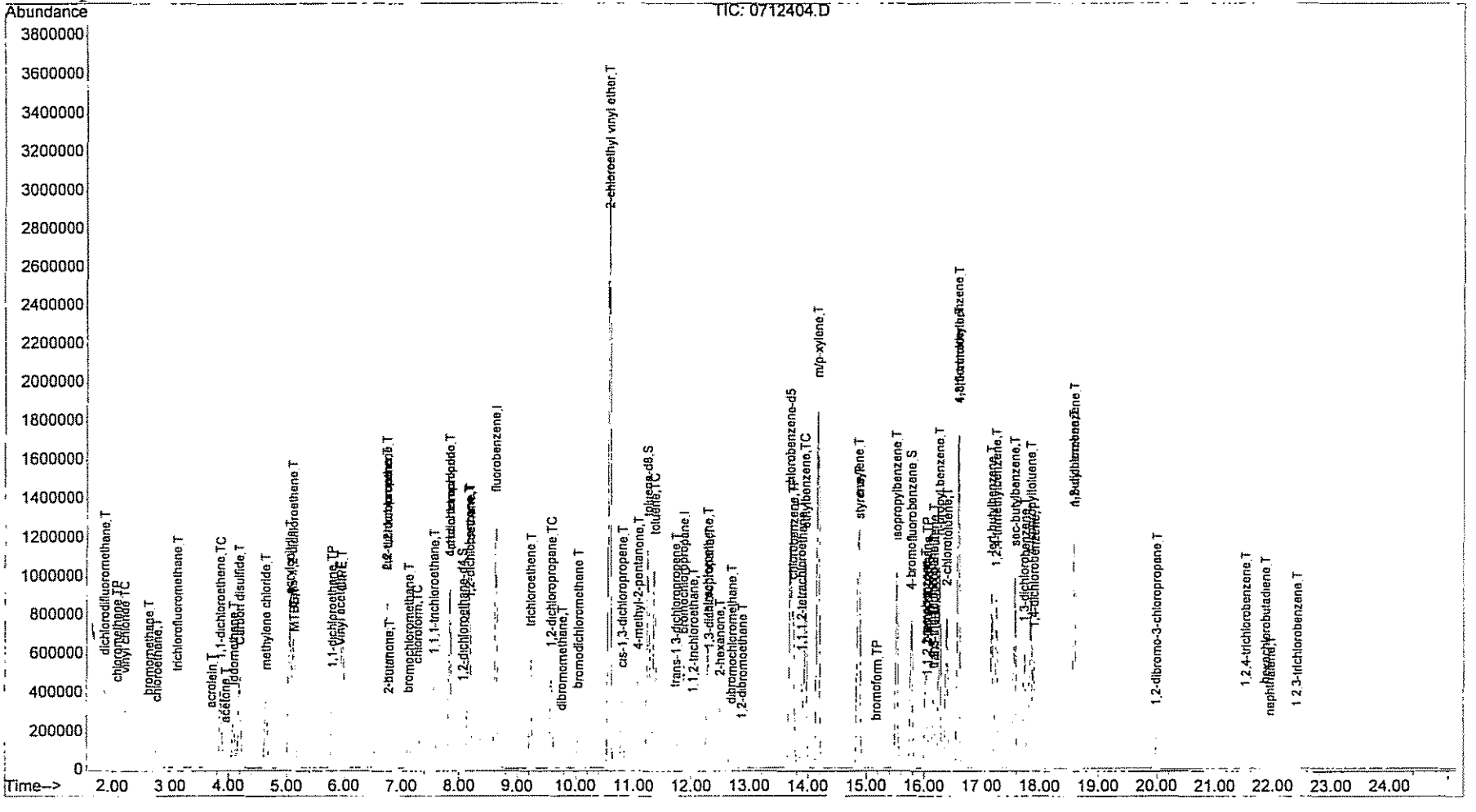
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.14	73	398118	7.69 ppb	96
78) DIPE	5.96	45	1066325	8.01 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712404.D Vial: 4
Acq On : 12 Jul 2005 12:57 pm Operator: JTF
Sample : lcs4071205b Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4070405\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712406.D Vial: 6
Acq On : 12 Jul 2005 2:01 pm Operator: JTF
Sample : VBLK4071205b Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 9:22 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

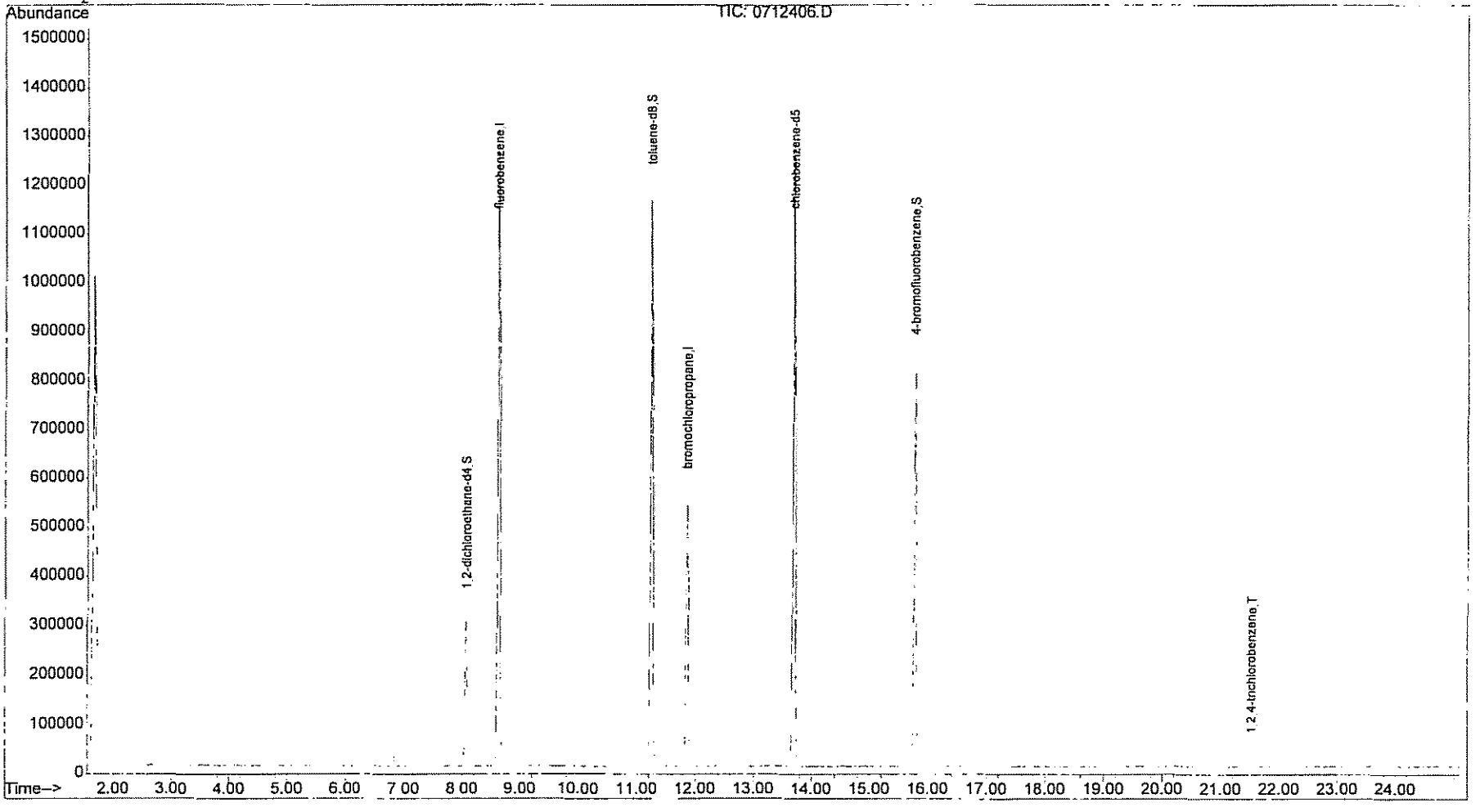
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.63	96	1723107	10.00 ppb	0.02
39) bromochloropropane	11.87	79	159246	10.00 ppb	0.00
53) chlorobenzene-d5	13.70	117	1149387	10.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.07	65	316108	8.84 ppb	0.00
Spiked Amount 10.000			Recovery	= 88.40%	
33) toluene-d8	11.24	98	1238477	10.21 ppb	0.00
Spiked Amount 10.000			Recovery	= 102.10%	
49) 4-bromofluorobenzene	15.78	95	483634	10.49 ppb	0.00
Spiked Amount 10.000			Recovery	= 104.90%	
Target Compounds					Qvalue
32) 4-methyl-2-pentanone	11.23	43	6658	Below Cal	# 1
72) 1,2,4-trichlorobenzene	21.53	180	3504	0.21 ppb	96
74) naphthalene	21.97	128	8014	Below Cal	70

(#) = qualifier out of range (m) = manual integration
0712406.D 6210D.M Wed Sep 07 16:44:18 2005 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712406.D Vial: 6
Acq On : 12 Jul 2005 2:01 pm Operator: JTF
Sample : VBLK4071205b Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 13 9:22 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



N C CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712410.D Vial: 10
Acq On : 12 Jul 2005 4:08 pm Operator: JTF
Sample : g235-83-2a Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 16:33 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	1660997	10.00	ppb	0.02
39) bromochloropropane	11.87	79	153674	10.00	ppb	0.00
53) chlorobenzene-d5	13.70	117	1110519	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	300902	8.73	ppb	0.00
Spiked Amount 10.000			Recovery	=	87.30%	
33) toluene-d8	11.24	98	1186925	10.15	ppb	0.00
Spiked Amount 10.000			Recovery	=	101.50%	
49) 4-bromofluorobenzene	15.78	95	474266	10.66	ppb	0.00
Spiked Amount 10.000			Recovery	=	106.60%	

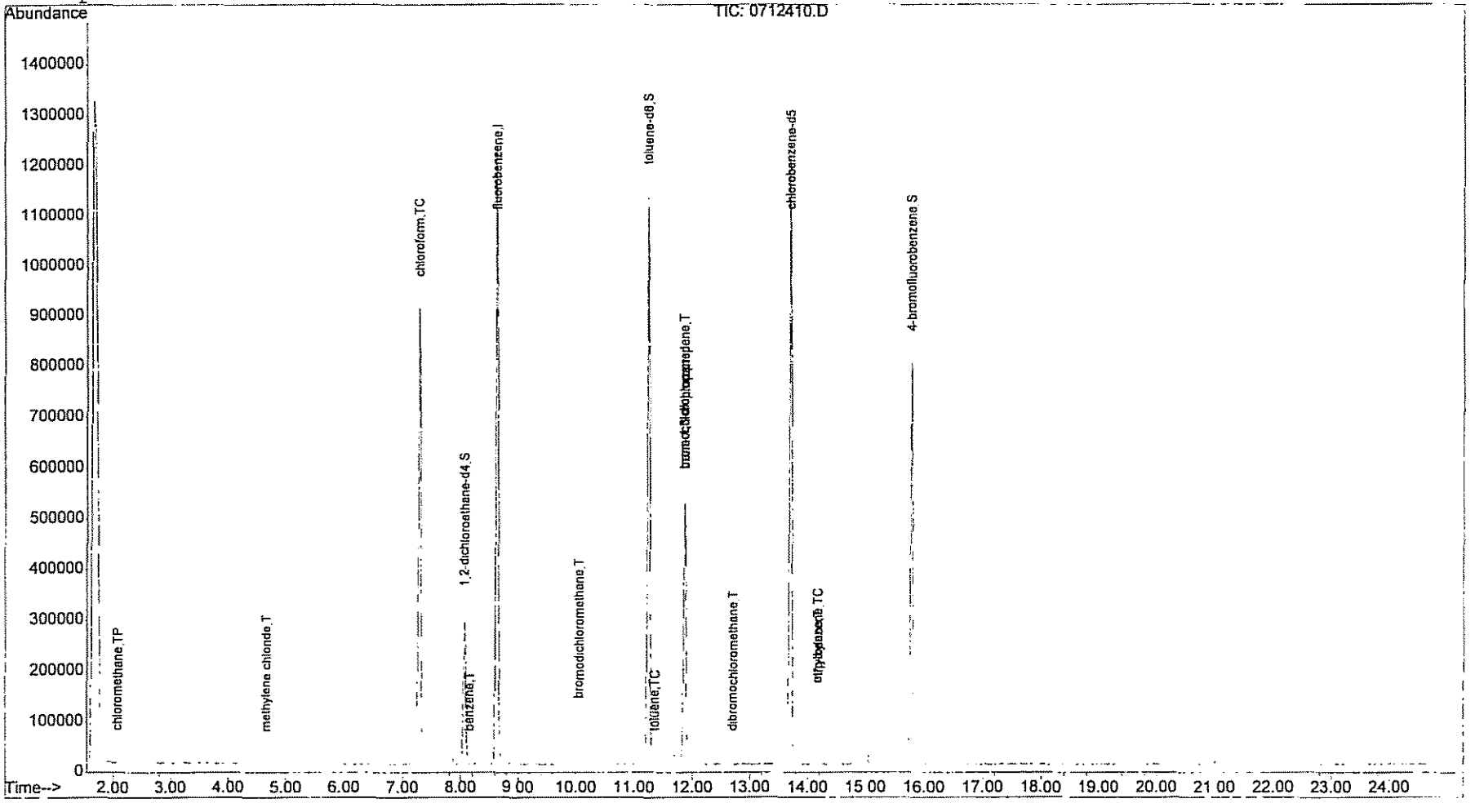
Target Compounds							Qvalue
3) chloromethane	2.08	50	4789	0.21	ppb	#	43
5) bromomethane	2.64	94	6577	Below Cal			82
10) acetone	3.97	43	12561	Below Cal		#	70
11) methylene chloride	4.65	84	619	0.02	ppb	#	52
19) chloroform	7.28	83	1098258	21.60	ppb		99
24) benzene	8.17	78	4341	0.03	ppb	#	52
29) bromodichloromethane	10.05	83	77328	2.58	ppb		99
32) 4-methyl-2-pentanone	11.09	43	14309	Below Cal		#	49
34) toluene	11.34	92	1464	0.02	ppb	#	62
36) trans-1,3-dichloropropene	11.87	75	6341	0.24	ppb	#	54
44) dibromochloromethane	12.70	129	3623	0.23	ppb		100
54) ethylbenzene	14.17	91	99704	0.73	ppb	#	63
55) m/p-xylene	14.17	106	47915	1.02	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712410.D Vial: 10
Acq On : 12 Jul 2005 4:08 pm Operator: JTF
Sample : g235-83-2a Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 16:33 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712422.D Vial: 22
Acq On : 12 Jul 2005 10:31 pm Operator: JTF
Sample : g235-83-2b ms Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 22:56 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.63	96	1609492	10.00	ppb		0.02
39) bromochloropropane	11.87	79	139503	10.00	ppb		0.00
53) chlorobenzene-d5	13.70	117	1058754	10.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.07	65	265723	7.96	ppb		0.00
Spiked Amount 10.000			Recovery	=	79.60%		
33) toluene-d8	11.24	98	1151970	10.17	ppb		0.00
Spiked Amount 10.000			Recovery	=	101.70%		
49) 4-bromofluorobenzene	15.78	95	442414	10.95	ppb		0.00
Spiked Amount 10.000			Recovery	=	109.50%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.87	85	220847	6.75	ppb		100
3) chloromethane	2.08	50	202539	5.15	ppb		97
4) vinyl chloride	2.22	62	212332	5.73	ppb		97
5) bromomethane	2.64	94	111337	6.39	ppb		96
6) chloroethane	2.76	64	118680	5.54	ppb		97
7) trichlorofluoromethane	3.12	101	213800	5.61	ppb		99
8) acrolein	3.71	56	120938	100.43	ppb		99
9) 1,1-dichloroethene	3.88	96	134012	5.33	ppb	#	78
10) acetone	3.96	43	57042	6.17	ppb		96
11) methylene chloride	4.65	84	129537	5.07	ppb	#	86
12) trans-1,2-dichloroethene	5.12	96	163961	5.35	ppb	#	86
13) acrylonitrile	5.06	53	433703	107.28	ppb		98
14) 1,1-dichloroethane	5.80	63	293869	4.90	ppb		99
15) 2,2-dichloropropane	6.74	77	199082	4.69	ppb		95
16) cis-1,2-dichloroethene	6.75	96	154778	5.17	ppb	#	85
17) 2-butanone	6.80	43	103855	14.99	ppb		99
18) bromochloromethane	7.13	128	46333	4.99	ppb	#	81
19) chloroform	7.28	83	234810	4.77	ppb		98
20) 1,1,1-trichloroethane	7.57	97	217556	5.08	ppb		96
21) carbon tetrachloride	7.84	117	186481	5.12	ppb		91
22) 1,1-dichloropropene	7.85	75	217107	5.16	ppb		96
24) benzene	8.17	78	618415	5.12	ppb		99
25) 1,2-dichloroethane	8.19	62	108048	4.16	ppb		95
26) trichloroethene	9.24	95	153605	5.24	ppb		92
27) 1,2-dichloropropane	9.59	63	126786	4.51	ppb		94
28) dibromomethane	9.77	93	41374	4.51	ppb		94
29) bromodichloromethane	10.05	83	127043	4.38	ppb		99
30) 2-chloroethyl vinyl ether	10.57	106	238959	10.71	ppb		87
31) cis-1,3-dichloropropene	10.80	75	149835	4.38	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712422.D Vial: 22
Acq On : 12 Jul 2005 10:31 pm Operator: JTF
Sample : g235-83-2b ms Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 22:56 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.08	43	255575	18.47	ppb		98
34)	toluene	11.35	92	377068	5.25	ppb		99
35)	Iodomethane	4.09	142	275774	5.50	ppb		91
36)	trans-1,3-dichloropropene	11.74	75	100332	3.96	ppb		93
37)	Vinyl acetate	5.92	43	643945	9.69	ppb	#	96
38)	Carbon disulfide	4.20	76	577367	5.18	ppb		99
40)	1,1,2-trichloroethane	12.03	83	46516	4.92	ppb		98
41)	tetrachloroethene	12.28	166	148184	6.50	ppb		97
42)	1,3-dichloropropane	12.32	76	103550	4.63	ppb		100
43)	2-hexanone	12.50	43	155528	13.34	ppb		97
44)	dibromochloromethane	12.70	129	68680	4.88	ppb		95
45)	1,2-dibromoethane	12.88	107	50179	4.92	ppb		95
46)	chlorobenzene	13.75	112	332218	5.54	ppb		93
47)	1,1,1,2-tetrachloroethane	13.89	131	101856	5.49	ppb		97
48)	bromoform	15.18	173	30794	4.77	ppb		96
50)	bromobenzene	16.03	156	99914	5.59	ppb	#	81
51)	1,1,2,2-tetrachloroethane	16.05	83	49613	5.05	ppb		99
52)	1,2,3-trichloropropane	16.16	75	108138	4.56	ppb		89
54)	ethylbenzene	13.95	91	700890	5.40	ppb		98
55)	m/p-xylene	14.16	106	502746	11.23	ppb		95
56)	styrene	14.88	104	293334	4.87	ppb		100
57)	o-xylene	14.86	106	209031	5.16	ppb		94
58)	isopropylbenzene	15.52	105	597610	5.34	ppb		100
59)	n-propyl benzene	16.26	91	738463	5.28	ppb		99
60)	2-chlorotoluene	16.39	126	123053	5.17	ppb		95
61)	4-chlorotoluene	16.59	126	119134	4.94	ppb		89
62)	1,3,5-trimethylbenzene	16.58	105	471046	5.23	ppb		99
63)	tert-butylbenzene	17.16	119	387771	5.26	ppb		95
64)	1,2,4-trimethylbenzene	17.25	105	535269	6.12	ppb		98
65)	sec-butylbenzene	17.57	105	584082	5.18	ppb		99
66)	1,3-dichlorobenzene	17.74	146	197531	4.72	ppb		97
67)	4-isopropyltoluene	17.84	119	465085	5.13	ppb		98
68)	1,4-dichlorobenzene	17.90	146	184017	4.48	ppb		95
69)	1,2-dichlorobenzene	18.56	146	143026	4.45	ppb		97
70)	n-butylbenzene	18.58	91	414897	4.85	ppb		95
71)	1,2-dibromo-3-chloropropan	19.99	75	29649	16.28	ppb		92
72)	1,2,4-trichlorobenzene	21.52	180	56193	3.70	ppb		95
73)	hexachlorobutadiene	21.87	225	41914	5.23	ppb		94
74)	naphthalene	21.96	128	232038	13.03	ppb		99
75)	trans-1,4-Dichloro-2-buten	16.16	89	34675	18.72	ppb		86
76)	1,2,3-trichlorobenzene	22.41	180	32639	3.09	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712422.D Vial: 22
Acq On : 12 Jul 2005 10:31 pm Operator: JTF
Sample : g235-83-2b ms Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 22:56 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

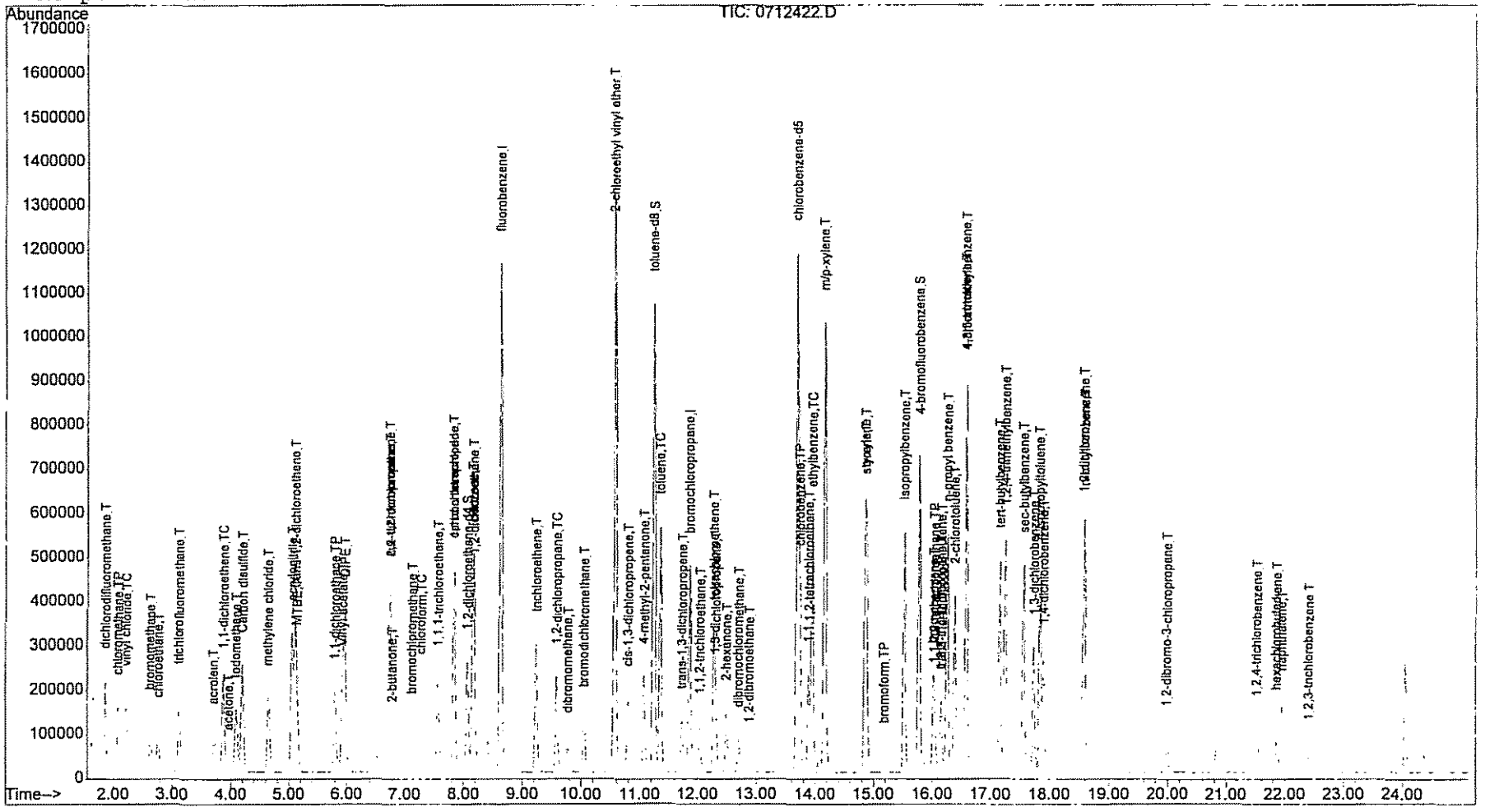
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.15	73	198597	4.09 ppb	95
78) DIPE	5.96	45	531245	4.26 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712422.D Vial: 22
Acq On : 12 Jul 2005 10:31 pm Operator: JTF
Sample : g235-83-2b ms Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 22:56 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712423.D Vial: 23
Acq On : 12 Jul 2005 11:03 pm Operator: JTF
Sample : g235-83-2c msd Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 23:29 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.63	96	1623160	10.00	ppb	0.02
39) bromochloropropane	11.87	79	143050	10.00	ppb	0.00
53) chlorobenzene-d5	13.70	117	1075723	10.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.07	65	271818	8.07	ppb	0.00
Spiked Amount 10.000			Recovery	=	80.70%	
33) toluene-d8	11.24	98	1160944	10.16	ppb	0.00
Spiked Amount 10.000			Recovery	=	101.60%	
49) 4-bromofluorobenzene	15.78	95	447524	10.80	ppb	0.00
Spiked Amount 10.000			Recovery	=	108.00%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.86	85	212548	6.45	ppb		97
3) chloromethane	2.08	50	195934	4.94	ppb		98
4) vinyl chloride	2.21	62	205100	5.49	ppb		99
5) bromomethane	2.64	94	108077	6.13	ppb		96
6) chloroethane	2.76	64	113213	5.23	ppb		100
7) trichlorofluoromethane	3.12	101	207510	5.40	ppb		98
8) acrolein	3.71	56	75970	71.06	ppb		97
9) 1,1-dichloroethene	3.87	96	123745	4.88	ppb	#	82
10) acetone	3.96	43	63990	7.46	ppb		99
11) methylene chloride	4.64	84	115906	4.50	ppb	#	87
12) trans-1,2-dichloroethene	5.11	96	154734	5.00	ppb		92
13) acrylonitrile	5.05	53	443040	108.72	ppb		99
14) 1,1-dichloroethane	5.80	63	272547	4.51	ppb		97
15) 2,2-dichloropropane	6.74	77	181577	4.24	ppb		89
16) cis-1,2-dichloroethene	6.75	96	139142	4.61	ppb	#	86
17) 2-butanone	6.80	43	104912	15.01	ppb		99
18) bromochloromethane	7.13	128	45008	4.81	ppb	#	80
19) chloroform	7.28	83	221946	4.47	ppb		100
20) 1,1,1-trichloroethane	7.57	97	206727	4.79	ppb		94
21) carbon tetrachloride	7.84	117	173047	4.71	ppb		97
22) 1,1-dichloropropene	7.84	75	201026	4.73	ppb		98
24) benzene	8.17	78	585881	4.81	ppb		98
25) 1,2-dichloroethane	8.20	62	104244	3.98	ppb		96
26) trichloroethene	9.23	95	144995	4.91	ppb		92
27) 1,2-dichloropropane	9.59	63	121872	4.29	ppb		96
28) dibromomethane	9.78	93	38014	4.11	ppb		90
29) bromodichloromethane	10.05	83	121217	4.14	ppb		97
30) 2-chloroethyl vinyl ether	10.57	106	246476	10.97	ppb		85
31) cis-1,3-dichloropropene	10.80	75	140273	4.07	ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\4071205\0712423.D Vial: 23
Acq On : 12 Jul 2005 11:03 pm Operator: JTF
Sample : g235-83-2c msd Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 23:29 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	4-methyl-2-pentanone	11.08	43	239509	16.85	ppb		97
34)	toluene	11.35	92	352287	4.86	ppb		99
35)	Iodomethane	4.08	142	263358	5.21	ppb		92
36)	trans-1,3-dichloropropene	11.74	75	95743	3.75	ppb		91
37)	Vinyl acetate	5.92	43	602386	8.99	ppb	#	96
38)	Carbon disulfide	4.19	76	540333	4.81	ppb		99
40)	1,1,2-trichloroethane	12.04	83	43570	4.49	ppb		92
41)	tetrachloroethene	12.28	166	140291	6.00	ppb		98
42)	1,3-dichloropropane	12.32	76	97490	4.25	ppb		98
43)	2-hexanone	12.50	43	155938	12.94	ppb		97
44)	dibromochloromethane	12.70	129	64846	4.49	ppb		98
45)	1,2-dibromoethane	12.88	107	48449	4.63	ppb		87
46)	chlorobenzene	13.75	112	317399	5.16	ppb		93
47)	1,1,1,2-tetrachloroethane	13.89	131	98175	5.16	ppb		97
48)	bromoform	15.18	173	31118	4.70	ppb		98
50)	bromobenzene	16.03	156	93277	5.09	ppb	#	88
51)	1,1,2,2-tetrachloroethane	16.06	83	48616	4.79	ppb		97
52)	1,2,3-trichloropropane	16.16	75	103815	4.22	ppb		88
54)	ethylbenzene	13.95	91	641190	4.86	ppb		98
55)	m/p-xylene	14.16	106	456668	10.04	ppb		94
56)	styrene	14.88	104	272668	4.45	ppb		100
57)	o-xylene	14.86	106	197111	4.79	ppb		95
58)	isopropylbenzene	15.52	105	561805	4.94	ppb		100
59)	n-propyl benzene	16.26	91	677126	4.76	ppb		99
60)	2-chlorotoluene	16.40	126	117012	4.84	ppb		91
61)	4-chlorotoluene	16.58	126	113380	4.63	ppb		89
62)	1,3,5-trimethylbenzene	16.58	105	436545	4.77	ppb		100
63)	tert-butylbenzene	17.16	119	366277	4.89	ppb		99
64)	1,2,4-trimethylbenzene	17.25	105	431166	4.85	ppb		99
65)	sec-butylbenzene	17.57	105	545140	4.76	ppb		98
66)	1,3-dichlorobenzene	17.74	146	190253	4.47	ppb		98
67)	4-isopropyltoluene	17.84	119	441731	4.79	ppb		97
68)	1,4-dichlorobenzene	17.90	146	179859	4.31	ppb		94
69)	1,2-dichlorobenzene	18.57	146	143368	4.39	ppb		99
70)	n-butylbenzene	18.58	91	397612	4.57	ppb		95
71)	1,2-dibromo-3-chloropropan	19.99	75	32952	18.22	ppb	#	79
72)	1,2,4-trichlorobenzene	21.53	180	69300	4.50	ppb		97
73)	hexachlorobutadiene	21.87	225	41440	5.09	ppb		91
74)	naphthalene	21.96	128	126139	6.73	ppb		98
75)	trans-1,4-Dichloro-2-buten	16.16	89	32367	16.91	ppb		98
76)	1,2,3-trichlorobenzene	22.42	180	48260	4.49	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\4071205\0712423.D Vial: 23
Acq On : 12 Jul 2005 11:03 pm Operator: JTF
Sample : g235-83-2c msd Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 23:29 2005 Quant Results File: 6210D.RES

Quant Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration
DataAcq Meth : 6210D

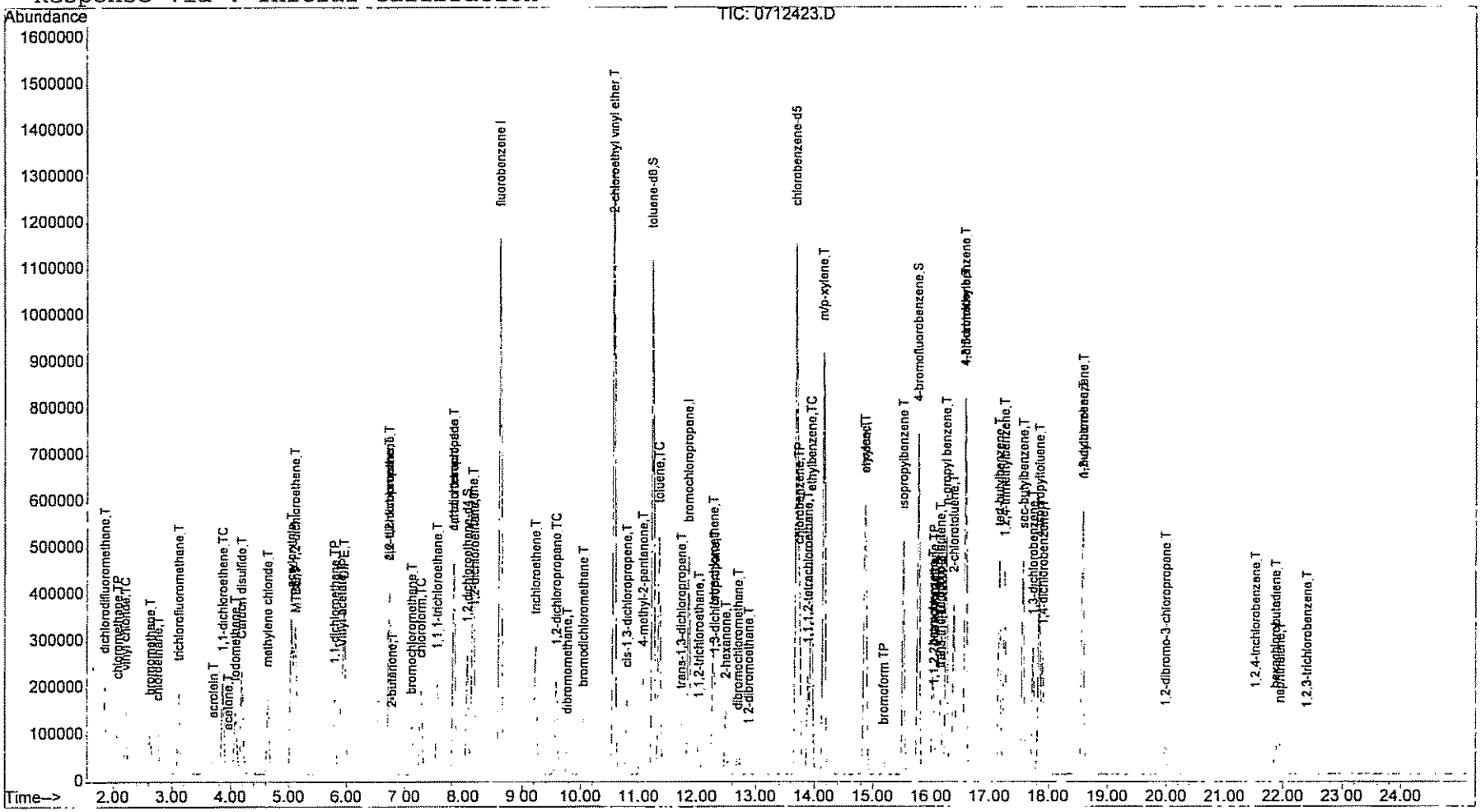
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) MTBE	5.14	73	186633	3.79 ppb	95
78) DIPE	5.96	45	498201	3.93 ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\4071205\0712423.D Vial: 23
Acq On : 12 Jul 2005 11:03 pm Operator: JTF
Sample : g235-83-2c msd Inst : MSD4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 23:29 2005 Quant Results File: 6210D.RES

Method : C:\HPCHEM\1\DATA\4071205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Tue Jul 05 09:03:33 2005
Response via : Initial Calibration



8260 Prep, Standard, Run Logs

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66

8260WBC-7-062805-C58 8260WBQ-7-062805-C59 8260SBC-7-062805-C59 8260SBQ-7-0628005-C60

Paradigm Analytical

MSD4 Runlog Sheet

Matrix: Soil water

Batch: 4070405

FILE	SAMPLE ID	DATE / TIME	COMMENTS	IS CR	CR QC	OPER	RERUN
		07/05/05 22				RNP	
0703402.D	VSTD0005	7/4/05 10.51				RNP	
0703403.D	VSTD0005	7/4/05 11:23				RNP	
0703404.D	VSTD001	7/4/05 11:55				RNP	
0703405.D	VSTD002	7/4/05 12:27				RNP	
0703406.D	VSTD005	7/4/05 12:58				RNP	
0703407.D	VSTD010	7/4/05 13:30				RNP	
0703408.D	VSTD025	7/4/05 14:03				RNP	
0703409.D	VSTD050	7/4/05 14:35				RNP	
0703410.D	b	7/4/05 15:07				RNP	
0703411.D	b	7/4/05 15:38				RNP	

Analyst: [illegible]

See Top for Standard Lot Numbers

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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

MSD4 Runlog Sheet

Method: 5030 / 5035 8260 / 6210D

Initial Cal. Curve: 8260/5035-6/24/05 6210D/8260 6/3/05

Matrix: Soil water

Batch: 4071205

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0712401.D	bfb 50ng	7/12/05 11:22				JTF	
0712402.D	QCCHK005	7/12/05 11:54				JTF	
0712403.D	LCS40701205a	7/12/05 12:25				JTF	
0712404.D	vstd10	7/12/05 12:57				JTF	
0712405.D	VBLK4071205a	7/12/05 13:29				JTF	
0712406.D	VBLK4071205b	7/12/05 14:01				JTF	
0712407.D	g460-25-6a	7/12/05 14:32				JTF	
0712408.D	g235-83-7a	7/12/05 15:04				JTF	
0712409.D	g235-83-1a	7/12/05 15:36				JTF	
0712410.D	g235-83-2a	7/12/05 16:08				JTF	
0712411.D	g235-83-3a	7/12/05 16:40				JTF	
0712412.D	g235-83-4a	7/12/05 17:12				JTF	
0712413.D	g235-83-5a	7/12/05 17:44				JTF	
0712414.D	g235-83-6a	7/12/05 18:16				JTF	
0712415.D	g118-389-4a	7/12/05 18:48				JTF	
0712416.D	g118-389-1a	7/12/05 19:20				JTF	
0712417.D	b	7/12/05 19:52				JTF	
0712418.D	g161-2055-1d x50	7/12/05 20:24				JTF	
0712419.D	g460-25-4b	7/12/05 20:56				JTF	
0712420.D	g460-25-5b x2	7/12/05 21:28				JTF	

Analyst: SDF

See Top for Standard Lot Numbers

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N C CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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

MSD4 Runlog Sheet

Method: 5030 / 5035 8260 / 6210D

Initial Cal. Curve: 8260/5035-6/24/05 6210D/8260 6/3/05

Matrix: Soil water

Batch: 4071205

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0712421.D	g235-83-1b dup	7/12/05 22:00				JTF	
0712422.D	g235-83-2b ms	7/12/05 22:31				JTF	
0712423.D	g235-83-2c msd	7/12/05 23:03				JTF	
0712424.D	bfb 50ng	7/12/05 23:35				JTF	
0712425.D	bfb 50ng	7/13/05 0:07				JTF	
0712426.D	qchk005	7/13/05 0:38				JTF	
0712427.D	qchk005	7/13/05 1:10				JTF	
0712428.D	lcs4071205b	7/13/05 1:42				JTF	
0712429.D	vlbk4071205c	7/13/05 2:14				JTF	
0712430.D	vlbk4071205d	7/13/05 2:46				JTF	
0712431.D	g161-2065-1a	7/13/05 3:17				JTF	
0712432.D	g161-2065-3a	7/13/05 3:49				JTF	
0712433.D	g161-2065-5a	7/13/05 4:21				JTF	
0712434.D	g161-2065-7a	7/13/05 4:54				JTF	
0712435.D	g161-2065-9a	7/13/05 5:26				JTF	
0712436.D	g161-2065-11a	7/13/05 5:57				JTF	
0712437.D	g161-2065-13a	7/13/05 6:29				JTF	
0712438.D	g161-2065-15a	7/13/05 7:01				JTF	
0712439.D	g161-2065-17a	7/13/05 7:33				JTF	
0712440.D	g161-2065-19a	7/13/05 8:05				JTF	

Analyst: JJC

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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

MSD4 Runlog Sheet

Method: 5030 / 5035 8260 / 6210D

Initial Cal. Curve: 8260/5035-6/24/05 6210D/8260 6/3/05

Matrix: Soil water

Batch: 4071205

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0712441.D	g161-2065-21a	7/13/05 8:37				JTF	
0712442.D	g161-2065-13b ms	7/13/05 9:09				JTF	
0712443.D	g161-2065-13c msd	7/13/05 9:41				JTF	

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Analyst: JDF

See Top for Standard Lot Numbers

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Volatiles Standard Notebook # 007

Mass Spec Water *CURVE*

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 A023291	2000	100	10	20
7A- 21	restek ketones lot A034303	5000	200	10	100
~~7B- 109~~ 7B 111	8260rxtv-7- 060505	10000	100	10	100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date: ↓
Expiration date: 7/5/05

PAL lot number: 8260WBC-7- 060505-CS

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol. (ml)	Final Conc (ppm)
7A- 24	Restek gases A033690	2000	100	10	20
7B- 109	8260ac/ac/2ceve-7- 060505	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date: ↓
Expiration date: 6/12/05

PAL lot number: 8260WGC-7- 060505-CS

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 24	Restek gases A033690	2000	100	10	20
7B- 113	8260ac/ac/2ceve-7- 061205	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/12/05
Prep date: ↓
Expiration date: 6/19/05

PAL lot number: 8260WGC-7- 061205-CS

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 27	Restek gases A034238	2000	100	10	20
7B- 117	8260ac/ac/2ceve-7- 062005	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/20/05
Prep date: ↓
Expiration date: 6/27/05

PAL lot number: 8260WGC-7- 062005-CS

Water GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 27	Restek gases A034238	2000	100	10	20
7B- 117	8260ac/ac/2ceve-6- 062805	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/28/05
Prep date: ↓
Expiration date: 7/5/05

PAL lot number: 8260WGC-7- 062805-CS

See reverse for any comments

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PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007

Mass Spec Water *QC*

Water BASE Mix:

Referring 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 ~~A034305~~ A034310	5000	200	10	100
7B- 112	8260rxtv-7- 060505	10000	100	10	100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date: ↓
Expiration date: 7/5/05

PAL lot number: 8260WBQ-7-060505-C5

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol. (ml)	Final Conc (ppm)
7A- 25	Restek gases A033688	2000	100	10	20
7B- 110	8260ac/ac/2ceve-7- 060505	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date: ↓
Expiration date: 6/12/05

PAL lot number: 8260WGQ-7- 060505-C5

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 25	Restek gases A033688	2000	100	10	20
7B- 114	8260ac/ac/2ceve-7- 061205	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/12/05
Prep date: ↓
Expiration date: 6/19/05

PAL lot number: 8260WGQ-7-061205-C5

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 28	Restek gases A036202	2000	100	10	20
7B- 118	8260ac/ac/2ceve-7- 062005	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/20/05
Prep date: ↓
Expiration date: 6/27/05

PAL lot number: 8260WGQ-7-062005-C5

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 28	Restek gases A036202	2000	100	10	20
7B- 120	8260ac/ac/2ceve-7- 062805	5000	1000	10	500
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/28/05
Prep date: ↓
Expiration date: 7/5/05

PAL lot number: 8260WGQ-7- 062805-C5

See reverse for any comments

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PARADIGM ANALYTICAL LABORATORIES INC.

N.C. CERTIFICATION #481

Water BASE Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 19	Restek 502.2 MEGA mix lot A033291	2000	100	10	20
7A- 21	restek ketones lot A034390	5000	200	10	100
7B- 121	8260rxtv-7- 063005 30 µl	10000	100	10	100
Solvent:	Methanol LOT# C9019				

Ampule opened: 06/30/05
Prep date:
Expiration date: 7/30/05

PAL lot number: 8260WBC-7-063005-Cbel

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 27	Restek gases A034230	2000	100	10	20
7B- 124	8260ac/ac/2ceve-7- 071105	5000	1000	10	500
Solvent:	Methanol LOT# C9019				

Ampule opened: 7/11/05 7/11/05
Prep date:
Expiration date: 7/18/05

PAL lot number: 8260WGC-7- 071105-Ccb

Water GAS Mix:

Referring Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 27	Restek gases A034230	2000	100	10	20
7B- 127	8260ac/ac/2ceve-7- 071805	5000	1000	10	500
Solvent:	Methanol LOT# C9019				

Ampule opened: 7/18/05
Prep date:
Expiration date: 7/25/05

PAL lot number: 8260WGC-7- 071805-Ccb

Water GAS Mix:

Referring Page	Description	Initial conc (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 27	Restek gases A034230	2000	100	10	20
7B- 129	8260ac/ac/2ceve-7- 072505	5000	1000	10	500
Solvent:	Methanol LOT# C9019				

Ampule opened: 7/25/05
Prep date:
Expiration date: 8/1/05

PAL lot number: 8260WGC-7- 072505-Ccb

Water GAS Mix:

Referring 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: C01

VO28.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Water BASE Mix:

Referring 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: 7/13/05

PAL lot number: 8260WBQ-7-063005

Water GAS Mix:

Referring 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-7-071105-662

Water GAS Mix:

Referring 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-7-071805-66

Water GAS Mix:

Referring 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-7-072505-66

Water GAS Mix:

Referring 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

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

5035 Sample Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708320.D Vial: 20
Acq On : 8 Jul 2005 5:40 pm Operator: RNP
Sample : G161-2055-2a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 18:05 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

7/10/05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.51	96	2447077	50.00 ppb	0.00
39) bromochloropropane	11.72	79	319908	50.00 ppb	-0.02
53) chlorobenzene-d5	13.53	117	1855859	50.00 ppb	-0.02
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.97	65	800822	52.22 ppb	0.00
Spiked Amount 50.000			Recovery	= 104.44%	
33) toluene-d8	11.10	98	1792104	50.81 ppb	0.00
Spiked Amount 50.000			Recovery	= 101.62%	
49) 4-bromofluorobenzene	15.61	95	923288	48.98 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.96%	

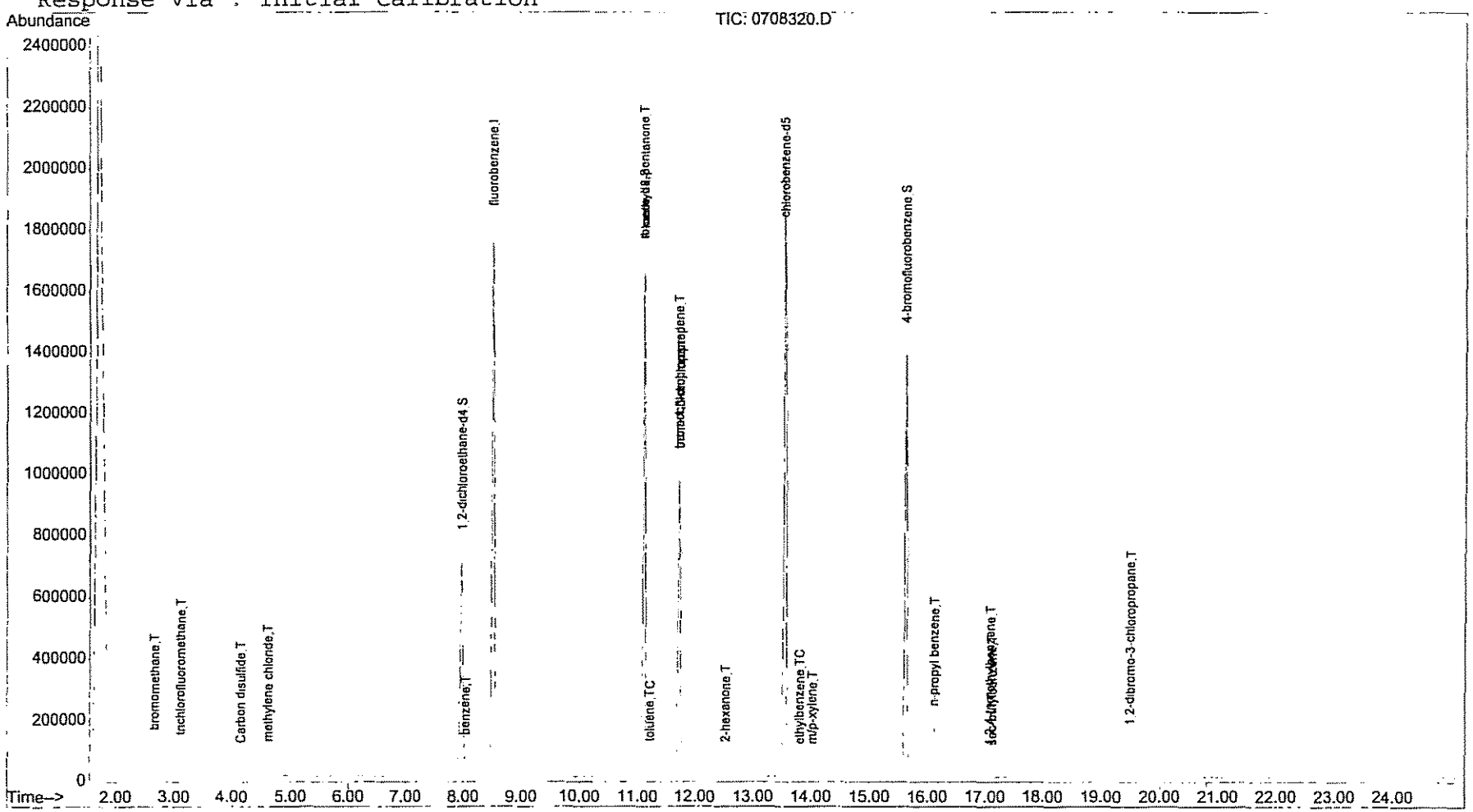
Target Compounds					Qvalue
5) bromomethane	2.67	94	3031	0.68 ppb #	2
7) trichlorofluoromethane	3.13	101	3551	0.21 ppb	92
8) acrolein	3.73	56	623	Below Cal #	1
10) acetone	3.93	43	70924	Below Cal	96
11) methylene chloride	4.60	84	3850	0.26 ppb #	90
17) 2-butanone	6.72	43	8430	Below Cal #	100
24) benzene	8.04	78	27896	0.43 ppb	90
32) 4-methyl-2-pentanone	11.10	43	8639	0.18 ppb #	1
34) toluene	11.20	92	6821	0.18 ppb	81
36) trans-1,3-dichloropropene	11.72	75	12897	0.72 ppb #	50
38) Carbon disulfide	4.15	76	5021	0.11 ppb #	76
43) 2-hexanone	12.52	43	2685	0.08 ppb #	26
52) 1,2,3-trichloropropane	16.11	75	2149	Below Cal #	1
54) ethylbenzene	13.80	91	2824	0.04 ppb #	45
55) m/p-xylene	14.02	106	3453	0.13 ppb #	72
59) n-propyl benzene	16.10	91	665	0.01 ppb #	53
64) 1,2,4-trimethylbenzene	17.08	105	2262	0.04 ppb #	36
65) sec-butylbenzene	17.11	105	794	0.01 ppb #	62
71) 1,2-dibromo-3-chloropropan	19.49	75	3190	0.18 ppb #	24
74) naphthalene	21.78	128	6490	Below Cal	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708320.D Vial: 20
Acq On : 8 Jul 2005 5:40 pm Operator: RNP
Sample : G161-2055-2a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 18:05 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

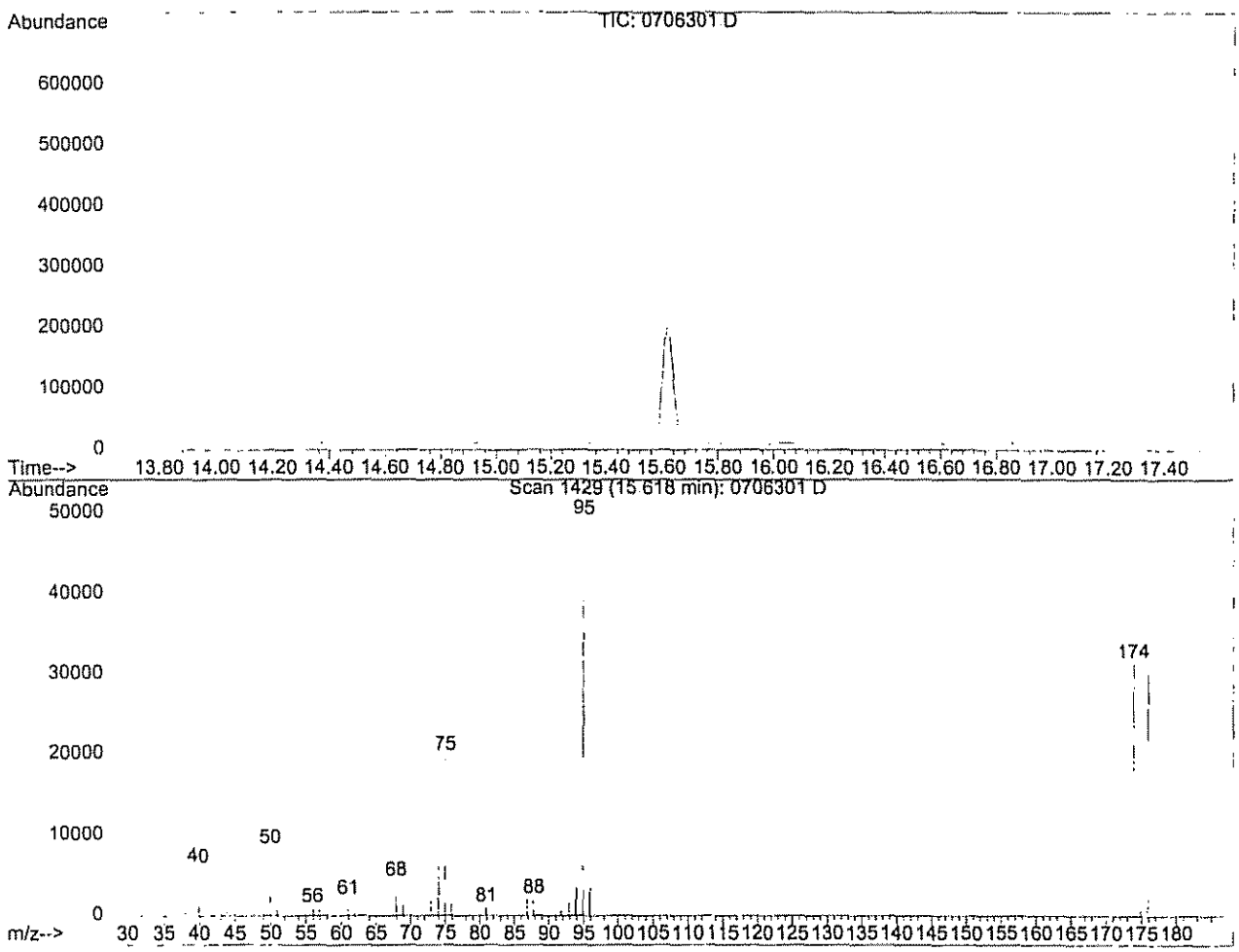


N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

5035 Tuning

BFB

Data File : C:\HPCHEM\1\DATA\3070605\0706301.D Vial: 1
Acq On : 6 Jul 2005 9:20 am Operator: RNP
Sample : 50 ng bfb Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX



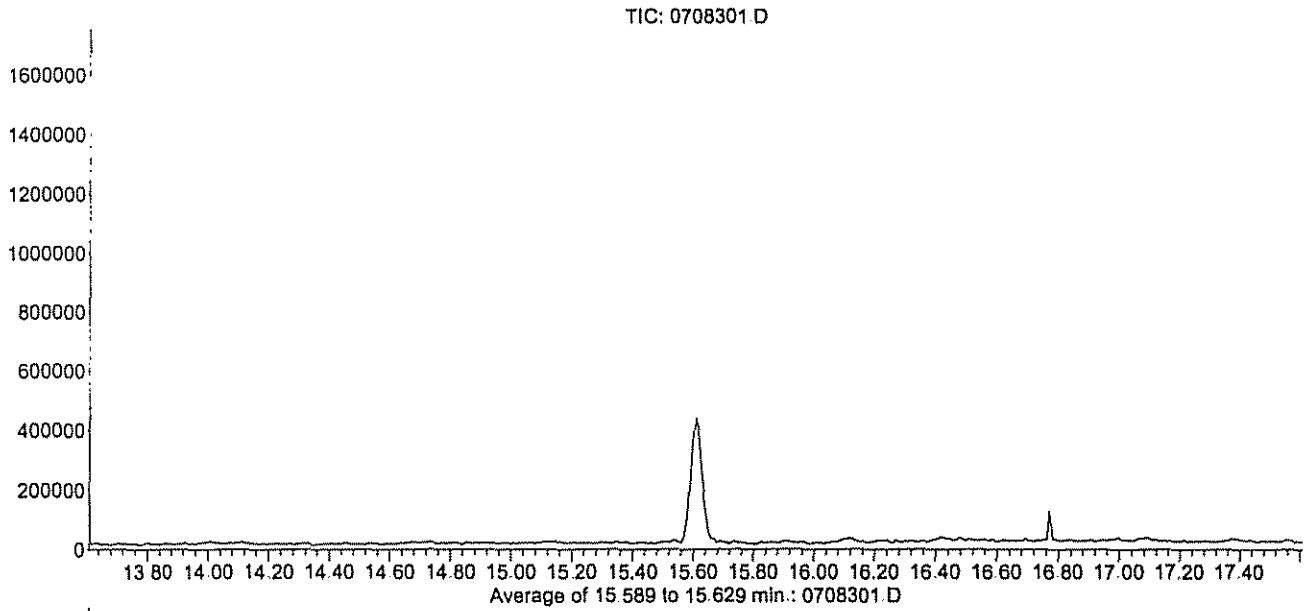
Spectrum Information: Scan 1429

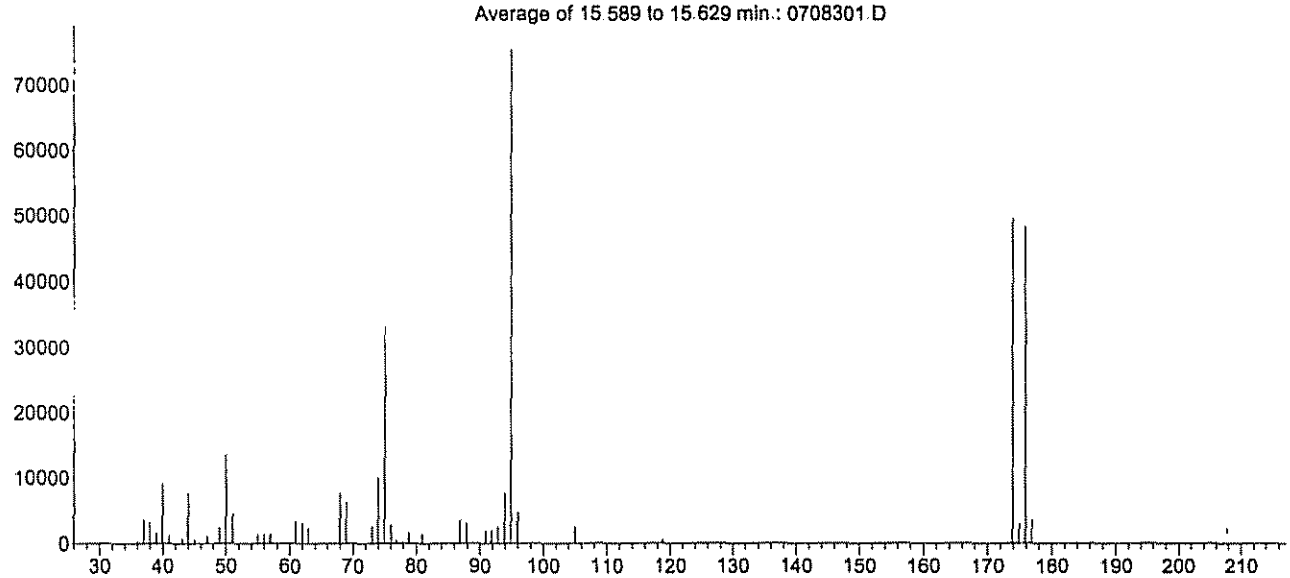
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	8318	PASS
75	95	30	60	40.1	19744	PASS
95	95	100	100	100.0	49200	PASS
96	95	5	9	7.3	3605	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.9	31416	PASS
175	174	5	9	7.7	2417	PASS
176	174	95	101	96.3	30240	PASS
177	176	5	9	7.9	2377	PASS

0706301.D 8260SSC.M Tue Sep 06 15:31:58 2005

BFB

Data File : C:\HPCHEM\1\DATA\3070805\0708301.D Vial: 1
Acq On : 8 Jul 2005 7:46 am Operator: RNP
Sample : 50 ng bfb Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX





Spectrum Information: Average of 15.589 to 15.629 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	13449	PASS
75	95	30	60	44.2	33334	PASS
95	95	100	100	100.0	75403	PASS
96	95	5	9	6.3	4752	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.6	49502	PASS
175	174	5	9	5.9	2933	PASS
176	174	95	101	97.5	48286	PASS
177	176	5	9	7.2	3497	PASS

0708301.D 8260SSC.M Tue Sep 06 15:40:28 2005

5035 Calibration Raw Data

Response Factor Report MSD3

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

Calibration Files
1 =0706303.D 2 =0706305.D 3 =0706306.D
4 =0706307.D 5 =0706308.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------						
2)	T	dichlorodifluorometha	0.323	0.249	0.266	0.271	0.252	0.272	11.00
3)	TP	chloromethane	0.422	0.366	0.366	0.395	0.363	0.382	6.68
4)	TC	vinyl chloride	0.445	0.378	0.395	0.407	0.399	0.405	6.21
5)	T	bromomethane	0.205	0.122	0.082	0.096	0.091	0.119	42.00
6)	T	chloroethane	0.263	0.195	0.185	0.093	0.068	0.161	49.49
7)	T	trichlorofluoromethan	0.492	0.410	0.427	0.362	0.382	0.415	12.09
8)	T	acrolein	0.027	0.018	0.018	0.010	0.007	0.016	48.19
9)	TC	1,1-dichloroethene	0.242	0.256	0.277	0.269	0.257	0.260	5.12
10)	T	acetone	0.344	0.186	0.143	0.131	0.124	0.186	49.43
11)	T	methylene chloride	0.316	0.303	0.305	0.299	0.287	0.302	3.41
12)	T	trans-1,2-dichloroeth	0.332	0.321	0.352	0.333	0.325	0.332	3.52
13)	T	acrylonitrile	0.101	0.107	0.098	0.099	0.090	0.099	6.09
14)	TP	1,1-dichloroethane	0.652	0.605	0.634	0.617	0.608	0.623	3.15
15)	T	2,2-dichloropropane	0.508	0.454	0.488	0.457	0.435	0.468	6.18
16)	T	cis-1,2-dichloroethen	0.335	0.319	0.335	0.325	0.320	0.327	2.38
17)	T	2-butanone	0.287	0.350	0.314	0.314	0.297	0.312	7.72
18)	T	bromochloromethane	0.116	0.116	0.114	0.114	0.111	0.114	2.01
19)	TC	chloroform	0.526	0.515	0.549	0.535	0.523	0.530	2.50
20)	T	1,1,1-trichloroethane	0.489	0.470	0.511	0.488	0.478	0.487	3.19
21)	T	carbon tetrachloride	0.416	0.410	0.449	0.425	0.412	0.423	3.69
22)	T	1,1-dichloropropene	0.469	0.459	0.504	0.484	0.473	0.478	3.55
23)	S	1,2-dichloroethane-d4	0.327	0.317	0.309	0.313	0.281	0.309	5.50
24)	T	benzene	1.612	1.352	1.420	1.366	1.360	1.422	7.69
25)	T	1,2-dichloroethane	0.374	0.381	0.371	0.369	0.349	0.369	3.22
26)	T	trichloroethene	0.353	0.334	0.359	0.343	0.340	0.346	2.94
27)	TC	1,2-dichloropropane	0.370	0.334	0.351	0.338	0.332	0.345	4.56
28)	T	dibromomethane	0.151	0.148	0.140	0.137	0.130	0.141	5.92
29)	T	bromodichloromethane	0.360	0.353	0.365	0.353	0.347	0.355	1.92
30)	T	2-chloroethyl vinyl e						0.000	-1.00
31)	T	cis-1,3-dichloroprope	0.436	0.437	0.443	0.439	0.431	0.437	0.97
32)	T	4-methyl-2-pentanone	0.811	0.876	0.764	0.779	0.741	0.794	6.59
33)	S	toluene-d8	0.730	0.729	0.722	0.731	0.722	0.727	0.62
34)	TC	toluene	0.835	0.811	0.868	0.844	0.838	0.839	2.42
35)	T	Iodomethane	0.215	0.238	0.251	0.247	0.235	0.237	5.90
36)	T	trans-1,3-dichloropro	0.390	0.375	0.362	0.364	0.363	0.371	3.20
37)	T	Vinyl acetate	0.133	0.088	0.088	0.068	0.053	0.086	34.78
38)	T	Carbon disulfide	0.987	0.941	1.050	1.002	0.982	0.993	3.97
39)	I	bromochloropropane	----------ISTD----------						
40)	T	1,1,2-trichloroethane	1.428	1.473	1.443	1.445	1.444	1.447	1.12
41)	T	tetrachloroethene	2.199	2.220	2.478	2.395	2.413	2.341	5.30
42)	T	1,3-dichloropropane	3.404	3.248	3.141	3.133	3.185	3.222	3.46

(#) = Out of Range

Response Factor Report MSD3

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

Calibration Files
1 =0706303.D 2 =0706305.D 3 =0706306.D
4 =0706307.D 5 =0706308.D

		Compound	1	2	3	4	5	Avg	%RSD
43)	T	2-hexanone	4.259	4.758	4.173	4.365	4.226	4.356	5.41
44)	T	dibromochloromethane	1.692	1.634	1.670	1.668	1.658	1.665	1.27
45)	T	1,2-dibromoethane	1.689	1.791	1.663	1.710	1.706	1.712	2.81
46)	TP	chlorobenzene	6.840	6.412	6.745	6.694	6.766	6.691	2.46
47)	T	1,1,1,2-tetrachloroet	1.795	1.788	1.849	1.755	1.766	1.791	2.03
48)	TP	bromoform	0.701	1.059	1.036	1.082	1.079	0.992	16.48
49)	S	4-bromofluorobenzene	2.846	2.944	2.977	3.112	3.079	2.992	3.58
50)	T	bromobenzene	2.176	2.117	2.225	2.220	2.210	2.190	2.06
51)	TP	1,1,2,2-tetrachloroet	2.233	2.309	2.132	2.267	2.215	2.231	2.96
52)	T	1,2,3-trichloropropan	0.223	5.366	4.916	5.189	5.131	4.165	53.04
53)		chlorobenzene-d5	----------ISTD----------						
54)	TC	ethylbenzene	2.105	2.045	2.244	2.169	1.977	2.108	4.94
55)	T	m/p-xylene	0.797	0.761	0.830	0.784	0.797	0.794	3.11
56)	T	styrene	1.041	1.054	1.119	1.081	1.093	1.078	2.87
57)	T	o-xylene	0.714	0.690	0.762	0.724	0.726	0.723	3.59
58)	T	isopropylbenzene	1.901	1.921	2.172	2.062	1.922	1.996	5.88
59)	T	n-propyl benzene	2.424	2.465	2.750	2.664	2.129	2.487	9.71
60)	T	2-chlorotoluene	0.398	0.390	0.411	0.399	0.385	0.397	2.51
61)	T	4-chlorotoluene	0.399	0.391	0.418	0.406	0.390	0.401	2.91
62)	T	1,3,5-trimethylbenzen	1.568	1.585	1.741	1.675	1.656	1.645	4.28
63)	T	tert-butylbenzene	1.272	1.306	1.445	1.395	1.390	1.361	5.20
64)	T	1,2,4-trimethylbenzen	1.565	1.561	1.704	1.671	1.664	1.633	4.01
65)	T	sec-butylbenzene	2.130	2.175	2.481	2.378	2.031	2.239	8.26
66)	T	1,3-dichlorobenzene	0.769	0.723	0.759	0.740	0.742	0.747	2.39
67)	T	4-isopropyltoluene	1.677	1.683	1.920	1.829	1.742	1.770	5.85
68)	T	1,4-dichlorobenzene	0.751	0.733	0.765	0.744	0.738	0.746	1.64
69)	T	1,2-dichlorobenzene	0.642	0.654	0.656	0.645	0.634	0.646	1.37
70)	T	n-butylbenzene	1.731	1.746	1.990	1.907	1.803	1.835	6.03
71)	T	1,2-dibromo-3-chlorop	0.400	0.428	0.386	0.399	0.394	0.401	4.00
72)	T	1,2,4-trichlorobenzen	0.420	0.413	0.435	0.434	0.439	0.428	2.62
73)	T	hexachlorobutadiene	0.174	0.177	0.206	0.196	0.202	0.191	7.68
74)	T	naphthalene	1.049	1.060	0.986	1.037	1.030	1.033	2.74
75)	T	trans-1,4-Dichloro-2-	0.312	0.330	0.306	0.319	0.311	0.316	2.99
76)	T	1,2,3-trichlorobenzen	0.380	0.378	0.378	0.383	0.385	0.381	0.80
77)	T	MTBE	1.174	1.072	1.047	1.027	1.037	1.071	5.56
78)	T	DIPE	1.998	1.867	1.929	1.807	1.845	1.889	3.98

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706303.D Vial: 3
Acq On : 6 Jul 2005 10:23 am Operator: RNP
Sample : VSTD005 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 10:48 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.50	96	3121184	50.00	ppb	-0.02
39) bromochloropropane	11.72	79	410203	50.00	ppb	-0.02
53) chlorobenzene-d5	13.53	117	2349612	50.00	ppb	-0.02
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.95	65	1020048	84.99	ppb	0.00
Spiked Amount 50.000			Recovery =	169.98%		
33) toluene-d8	11.09	98	2279442	50.33	ppb	-0.02
Spiked Amount 50.000			Recovery =	100.66%		
49) 4-bromofluorobenzene	15.61	95	1167315	47.03	ppb	0.00
Spiked Amount 50.000			Recovery =	94.06%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.88	85	100832	8.82	ppb #	84
3) chloromethane	2.11	50	131589	9.00	ppb #	77
4) vinyl chloride	2.22	62	139038	9.12	ppb #	88
5) bromomethane	2.62	94	63918	7.57	ppb	100
6) chloroethane	2.75	64	82039	8.35	ppb #	77
7) trichlorofluoromethane	3.08	101	153682	8.09	ppb	91
8) acrolein	3.68	56	84111	132.56	ppb #	72
9) 1,1-dichloroethene	3.81	96	75450	2.61	ppb #	77
10) acetone	3.92	43	107406	28.24	ppb	95
11) methylene chloride	4.58	84	98648	4.50	ppb	98
12) trans-1,2-dichloroethene	5.03	96	103649	6.32	ppb	89
13) acrylonitrile	4.99	53	315581	185.73	ppb	94
14) 1,1-dichloroethane	5.70	63	203571	3.58	ppb	94
15) 2,2-dichloropropane	6.63	77	158458	3.00	ppb	93
16) cis-1,2-dichloroethene	6.64	96	104539	6.25	ppb	85
17) 2-butanone	6.70	43	89702	14.65	ppb #	100
18) bromochloromethane	7.03	128	36329	8.71	ppb	84
19) chloroform	7.17	83	164189	6.52	ppb	92
20) 1,1,1-trichloroethane	7.43	97	152771	6.92	ppb #	81
21) carbon tetrachloride	7.70	117	129969	2.75	ppb	92
22) 1,1-dichloropropene	7.71	75	146493	2.81	ppb #	90
24) benzene	8.03	78	503084	7.36	ppb	100
25) 1,2-dichloroethane	8.07	62	116597	8.34	ppb	98
26) trichloroethene	9.09	95	110329	6.01	ppb #	86
27) 1,2-dichloropropane	9.45	63	115460	7.32	ppb #	100
28) dibromomethane	9.64	93	47121	7.73	ppb #	89
29) bromodichloromethane	9.92	83	112257	7.53	ppb #	83
31) cis-1,3-dichloropropene	10.66	75	136156	7.33	ppb	96
32) 4-methyl-2-pentanone	10.93	43	253060	18.01	ppb #	99
34) toluene	11.21	92	260525	3.29	ppb	100
35) Iodomethane	4.03	142	67085	7.27	ppb	90
36) trans-1,3-dichloropropene	11.59	75	121639	8.82	ppb #	89
37) Vinyl acetate	5.83	86	41432	13.10	ppb #	1
38) Carbon disulfide	4.14	76	308209	2.91	ppb	97
40) 1,1,2-trichloroethane	11.89	83	58574	7.02	ppb #	79
41) tetrachloroethene	12.12	166	90223	2.09	ppb #	83
42) 1,3-dichloropropane	12.16	76	139647	5.93	ppb #	80
43) 2-hexanone	12.34	43	174700	14.99	ppb #	98
44) dibromochloromethane	12.55	129	69410	5.61	ppb	96
45) 1,2-dibromoethane	12.74	107	69302	7.11	ppb #	81
46) chlorobenzene	13.58	112	280575	3.01	ppb	97
47) 1,1,1,2-tetrachloroethane	13.73	131	73614	4.11	ppb #	82
48) bromoform	15.03	173	28759	6.84	ppb #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706303.D Vial: 3
Acq On : 6 Jul 2005 10:23 am Operator: RNP
Sample : VSTD005 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 10:48 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	89254	3.61	ppb		87
51)	1,1,2,2-tetrachloroethane	15.90	83	91607	9.31	ppb	#	67
52)	1,2,3-trichloropropane	16.13	75	9162	4.32	ppb	#	1
54)	ethylbenzene	13.79	91	494612	2.82	ppb		97
55)	m/p-xylene	14.01	106	374391	12.74	ppb		90
56)	styrene	14.72	104	244594	6.56	ppb		100
57)	o-xylene	14.70	106	167780	6.36	ppb		100
58)	isopropylbenzene	15.35	105	446749	7.00	ppb		100
59)	n-propyl benzene	16.09	91	569658	7.15	ppb		95
60)	2-chlorotoluene	16.22	126	93481	3.39	ppb		89
61)	4-chlorotoluene	16.42	126	93763	6.21	ppb		92
62)	1,3,5-trimethylbenzene	16.41	105	368365	7.30	ppb		95
63)	tert-butylbenzene	16.99	119	298786	2.72	ppb		95
64)	1,2,4-trimethylbenzene	17.08	105	367773	7.51	ppb	#	86
65)	sec-butylbenzene	17.39	105	500554	7.94	ppb		96
66)	1,3-dichlorobenzene	17.57	146	180692	7.05	ppb		97
67)	4-isopropyltoluene	17.66	119	394058	8.24	ppb		96
68)	1,4-dichlorobenzene	17.72	146	176350	4.11	ppb		91
69)	1,2-dichlorobenzene	18.39	146	150814	7.34	ppb	#	87
70)	n-butylbenzene	18.40	91	406713	8.20	ppb		94
71)	1,2-dibromo-3-chloropropan	19.81	75	93984	16.50	ppb	#	41
72)	1,2,4-trichlorobenzene	21.33	180	98613	8.72	ppb		92
73)	hexachlorobutadiene	21.68	225	40898	8.44	ppb	#	84
74)	naphthalene	21.77	128	246547	20.80	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.01	89	73382	15.78	ppb	#	82
76)	1,2,3-trichlorobenzene	22.23	180	89376	9.75	ppb		88
77)	MTBE	5.05	73	275804	8.12	ppb	#	93
78)	DIPE	5.86	45	469446	4.24	ppb		97

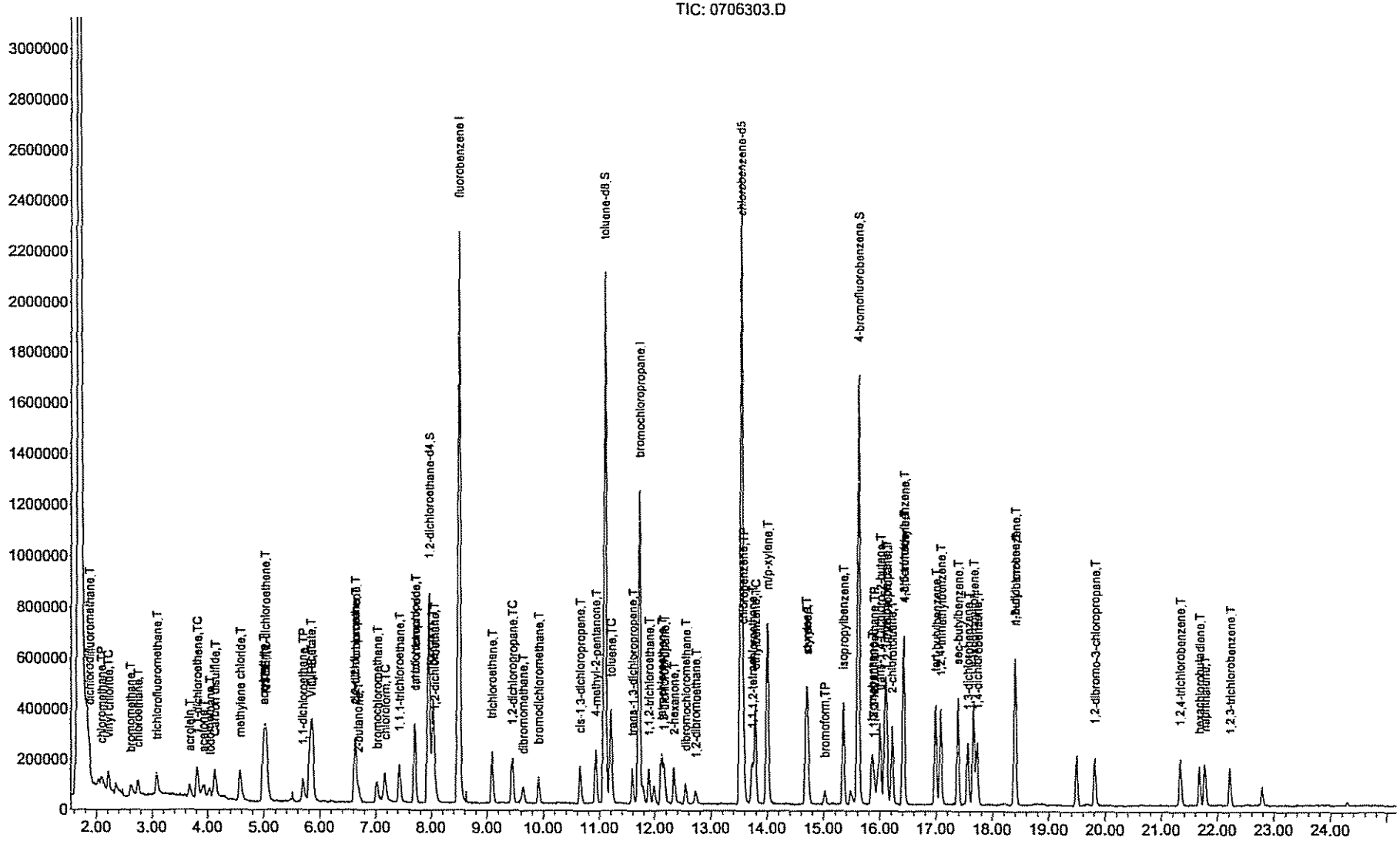
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070605\0706303.D Vial: 3
Acq On : 6 Jul 2005 10:23 am Operator: RNP
Sample : VSTD005 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 10:48 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

TIC: 0706303.D



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706305.D Vial: 5
Acq On : 6 Jul 2005 11:25 am Operator: RNP
Sample : VSTD020 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 11:51 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.50	96	3354561	50.00 ppb	-0.02
39) bromochloropropane	11.72	79	434139	50.00 ppb	-0.02
53) chlorobenzene-d5	13.53	117	2517410	50.00 ppb	-0.02
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.95	65	1062019	82.33 ppb	0.00
Spiked Amount 50.000			Recovery	= 164.66%	
33) toluene-d8	11.09	98	2445781	50.25 ppb	-0.02
Spiked Amount 50.000			Recovery	= 100.50%	
49) 4-bromofluorobenzene	15.61	95	1278076	48.66 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.32%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.88	85	334013	15.38 ppb	#	89
3) chloromethane	2.10	50	491747	17.90 ppb	#	88
4) vinyl chloride	2.22	62	506917	16.42 ppb	#	90
5) bromomethane	2.60	94	163981	12.61 ppb		90
6) chloroethane	2.74	64	261964	15.48 ppb		91
7) trichlorofluoromethane	3.08	101	550301	14.88 ppb		96
8) acrolein	3.68	56	235285	438.90 ppb	#	62
9) 1,1-dichloroethene	3.81	96	343252	11.06 ppb		89
10) acetone	3.91	43	249691	76.42 ppb		99
11) methylene chloride	4.57	84	406134	17.24 ppb		89
12) trans-1,2-dichloroethene	5.02	96	431019	14.44 ppb		95
13) acrylonitrile	4.99	53	1434257	684.61 ppb		91
14) 1,1-dichloroethane	5.70	63	812438	13.30 ppb		94
15) 2,2-dichloropropane	6.62	77	608931	10.72 ppb		95
16) cis-1,2-dichloroethene	6.64	96	428511	16.24 ppb		94
17) 2-butanone	6.69	43	470266	71.45 ppb	#	100
18) bromochloromethane	7.02	128	156171	24.84 ppb		87
19) chloroform	7.18	83	690744	16.31 ppb		88
20) 1,1,1-trichloroethane	7.43	97	630364	14.35 ppb	#	81
21) carbon tetrachloride	7.70	117	550764	10.84 ppb		96
22) 1,1-dichloropropene	7.71	75	615591	10.97 ppb	#	92
24) benzene	8.03	78	1814246	16.07 ppb		100
25) 1,2-dichloroethane	8.07	62	511396	26.10 ppb		99
26) trichloroethene	9.09	95	448234	14.40 ppb	#	85
27) 1,2-dichloropropane	9.44	63	448049	18.69 ppb	#	100
28) dibromomethane	9.64	93	197951	30.23 ppb	#	94
29) bromodichloromethane	9.92	83	473806	20.59 ppb	#	82
31) cis-1,3-dichloropropene	10.66	75	586823	21.68 ppb		94
32) 4-methyl-2-pentanone	10.93	43	1175745	72.46 ppb	#	98
34) toluene	11.20	92	1088554	12.80 ppb		98
35) Iodomethane	4.03	142	319359	14.09 ppb		90
36) trans-1,3-dichloropropene	11.59	75	502823	27.44 ppb		99
37) Vinyl acetate	5.82	86	118338	33.77 ppb	#	1
38) Carbon disulfide	4.13	76	1262446	11.09 ppb	#	96
40) 1,1,2-trichloroethane	11.89	83	255723	23.33 ppb	#	80
41) tetrachloroethene	12.12	166	385435	8.44 ppb		88
42) 1,3-dichloropropane	12.16	76	564088	21.71 ppb	#	79
43) 2-hexanone	12.34	43	826331	63.71 ppb	#	98
44) dibromochloromethane	12.55	129	283761	20.20 ppb		92
45) 1,2-dibromoethane	12.73	107	311039	26.88 ppb	#	88
46) chlorobenzene	13.58	112	1113459	11.29 ppb		99
47) 1,1,1,2-tetrachloroethane	13.73	131	310446	13.85 ppb		95
48) bromoform	15.02	173	183827	30.35 ppb	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706305.D Vial: 5
Acq On : 6 Jul 2005 11:25 am Operator: RNP
Sample : VSTD020 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 11:51 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	bromobenzene	15.86	156	367576	14.03 ppb		96
51)	1,1,2,2-tetrachloroethane	15.90	83	400922	34.53 ppb	#	64
52)	1,2,3-trichloropropane	16.00	75	931766	594.25 ppb	#	7
54)	ethylbenzene	13.79	91	2059399	10.96 ppb		98
55)	m/p-xylene	14.00	106	1533381	28.73 ppb		93
56)	styrene	14.72	104	1061317	17.08 ppb		100
57)	o-xylene	14.69	106	694819	14.98 ppb		97
58)	isopropylbenzene	15.35	105	1934860	14.34 ppb		99
59)	n-propyl benzene	16.09	91	2482210	14.75 ppb		96
60)	2-chlorotoluene	16.23	126	392224	13.28 ppb		92
61)	4-chlorotoluene	16.42	126	394089	15.92 ppb		92
62)	1,3,5-trimethylbenzene	16.41	105	1595989	15.64 ppb		97
63)	tert-butylbenzene	16.99	119	1314679	11.16 ppb		96
64)	1,2,4-trimethylbenzene	17.08	105	1572217	16.26 ppb		94
65)	sec-butylbenzene	17.39	105	2190054	15.19 ppb		100
66)	1,3-dichlorobenzene	17.57	146	728189	17.73 ppb		96
67)	4-isopropyltoluene	17.66	119	1695130	15.89 ppb		94
68)	1,4-dichlorobenzene	17.72	146	738546	16.07 ppb		96
69)	1,2-dichlorobenzene	18.39	146	658524	21.29 ppb		90
70)	n-butylbenzene	18.40	91	1757675	15.90 ppb		98
71)	1,2-dibromo-3-chloropropan	19.81	75	431377	61.95 ppb	#	52
72)	1,2,4-trichlorobenzene	21.33	180	416099	22.88 ppb		88
73)	hexachlorobutadiene	21.68	225	177739	16.12 ppb		98
74)	naphthalene	21.77	128	1067390	62.18 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	332609	53.37 ppb	#	67
76)	1,2,3-trichlorobenzene	22.22	180	380652	27.62 ppb		97
77)	MTBE	5.05	73	1079086	26.88 ppb		97
78)	DIPE	5.86	45	1879620	15.83 ppb		96

(#) = qualifier out of range (m) = manual integration
0706305.D 8260SSC.M Tue Sep 06 15:34:29 2005

Quantitation Report

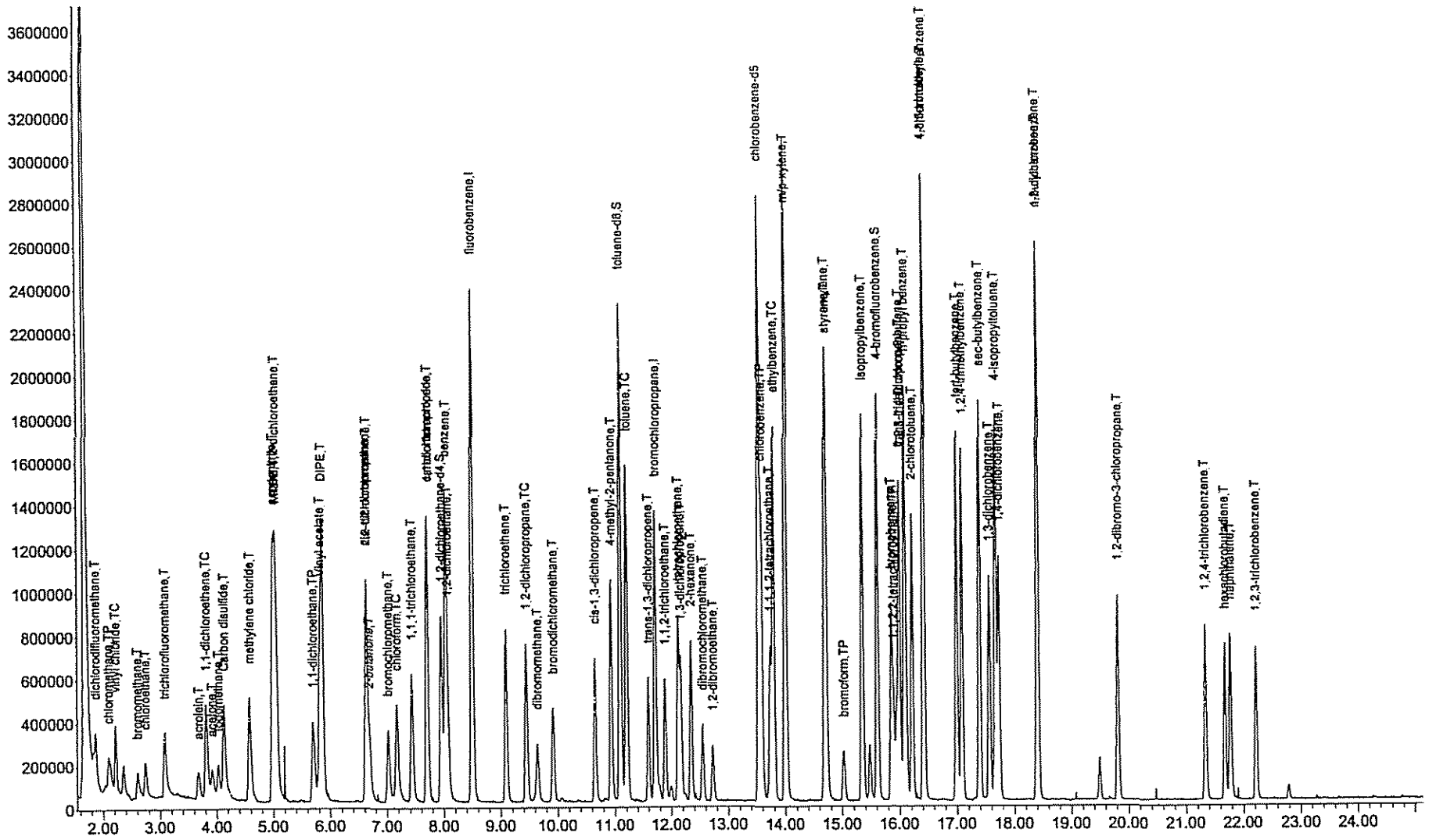
Data File : C:\HPCHEM\1\DATA\3070605\0706305.D
Acq On : 6 Jul 2005 11:25 am
Sample : VSTD020
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 6 11:51 2005

Vial: 5
Operator: RNP
Inst : MSD3
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

TIC: 0706305.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706306.D Vial: 6
Acq On : 6 Jul 2005 11:56 am Operator: RNP
Sample : VSTD050 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 15:12 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.50	96	3348302	50.00 ppb	-0.02
39) bromochloropropane	11.72	79	427635	50.00 ppb	-0.02
53) chlorobenzene-d5	13.53	117	2483426	50.00 ppb	-0.02
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.95	65	1033453	80.27 ppb	0.00
Spiked Amount 50.000			Recovery	= 160.54%	
33) toluene-d8	11.09	98	2418112	49.77 ppb	-0.02
Spiked Amount 50.000			Recovery	= 99.54%	
49) 4-bromofluorobenzene	15.61	95	1273131	49.21 ppb	0.00
Spiked Amount 50.000			Recovery	= 98.42%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	1.87	85	890370	31.60 ppb #	79
3) chloromethane	2.10	50	1225601	36.61 ppb #	87
4) vinyl chloride	2.22	62	1321020	33.08 ppb	91
5) bromomethane	2.59	94	274087	18.45 ppb	100
6) chloroethane	2.72	64	625946m	30.46 ppb	
7) trichlorofluoromethane	3.07	101	1428270	30.41 ppb	92
8) acrolein	3.67	56	589907	1191.03 ppb #	57
9) 1,1-dichloroethene	3.80	96	925882	29.90 ppb	85
10) acetone	3.92	43	479176	159.11 ppb	98
11) methylene chloride	4.57	84	1021127	43.43 ppb	91
12) trans-1,2-dichloroethene	5.02	96	1176979	33.44 ppb	96
13) acrylonitrile	4.99	53	3283838	1530.01 ppb	91
14) 1,1-dichloroethane	5.70	63	2122980	34.82 ppb #	93
15) 2,2-dichloropropane	6.62	77	1633907	28.82 ppb	92
16) cis-1,2-dichloroethene	6.64	96	1121978	38.23 ppb	91
17) 2-butanone	6.69	43	1050584	159.91 ppb #	100
18) bromochloromethane	7.02	128	381328	55.94 ppb #	83
19) chloroform	7.17	83	1839785	38.25 ppb	93
20) 1,1,1-trichloroethane	7.43	97	1710926	31.65 ppb	88
21) carbon tetrachloride	7.70	117	1501946	29.61 ppb	99
22) 1,1-dichloropropene	7.71	75	1685892	30.11 ppb	96
24) benzene	8.03	78	4753459	36.25 ppb	99
25) 1,2-dichloroethane	8.07	62	1242313	59.84 ppb	100
26) trichloroethene	9.09	95	1201668	33.64 ppb	87
27) 1,2-dichloropropane	9.44	63	1174406	44.28 ppb #	100
28) dibromomethane	9.64	93	468629	71.70 ppb #	92
29) bromodichloromethane	9.92	83	1221073	48.31 ppb #	83
31) cis-1,3-dichloropropene	10.66	75	1481994	50.93 ppb	98
32) 4-methyl-2-pentanone	10.93	43	2558364	156.06 ppb #	97
34) toluene	11.20	92	2906037	34.24 ppb	99
35) Iodomethane	4.02	142	840364	28.49 ppb #	85
36) trans-1,3-dichloropropene	11.59	75	1211212	63.00 ppb	100
37) Vinyl acetate	5.82	86	294948	83.40 ppb #	1
38) Carbon disulfide	4.12	76	3516513	30.94 ppb #	95
40) 1,1,2-trichloroethane	11.89	83	617232	54.55 ppb #	80
41) tetrachloroethene	12.12	166	1059654	23.56 ppb	89
42) 1,3-dichloropropane	12.16	76	1343298	52.03 ppb #	81
43) 2-hexanone	12.34	43	1784632	138.55 ppb #	95
44) dibromochloromethane	12.55	129	714318	50.84 ppb	92
45) 1,2-dibromoethane	12.73	107	711079	61.05 ppb #	76
46) chlorobenzene	13.58	112	2884394	29.69 ppb	98
47) 1,1,1,2-tetrachloroethane	13.74	131	790762	34.45 ppb	94
48) bromoform	15.02	173	443203	71.13 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706306.D Vial: 6
Acq On : 6 Jul 2005 11:56 am Operator: RNP
Sample : VSTD050 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 15:12 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	951690	36.87	ppb		91
51)	1,1,2,2-tetrachloroethane	15.90	83	911696	78.07	ppb	#	60
52)	1,2,3-trichloropropane	16.00	75	2102159	1363.52	ppb	#	6
54)	ethylbenzene	13.79	91	5572843	30.07	ppb		98
55)	m/p-xylene	14.01	106	4120535	66.05	ppb		94
56)	styrene	14.72	104	2777850	40.19	ppb		100
57)	o-xylene	14.69	106	1892108	35.43	ppb		98
58)	isopropylbenzene	15.35	105	5393051	32.13	ppb		99
59)	n-propyl benzene	16.09	91	6830275	32.77	ppb		96
60)	2-chlorotoluene	16.23	126	1020751	35.02	ppb		95
61)	4-chlorotoluene	16.42	126	1038597	37.72	ppb		94
62)	1,3,5-trimethylbenzene	16.41	105	4323802	34.97	ppb		96
63)	tert-butylbenzene	16.99	119	3587735	30.88	ppb		96
64)	1,2,4-trimethylbenzene	17.08	105	4232108	36.43	ppb		96
65)	sec-butylbenzene	17.39	105	6160301	32.95	ppb		99
66)	1,3-dichlorobenzene	17.57	146	1884762	41.35	ppb		96
67)	4-isopropyltoluene	17.66	119	4768257	34.73	ppb		93
68)	1,4-dichlorobenzene	17.72	146	1899819	41.89	ppb		95
69)	1,2-dichlorobenzene	18.39	146	1628208	49.12	ppb		93
70)	n-butylbenzene	18.41	91	4942122	34.85	ppb		97
71)	1,2-dibromo-3-chloropropan	19.81	75	957937	136.11	ppb	#	52
72)	1,2,4-trichlorobenzene	21.34	180	1080921	53.90	ppb		85
73)	hexachlorobutadiene	21.68	225	511257	35.65	ppb		97
74)	naphthalene	21.78	128	2449672	135.11	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	759354	118.06	ppb	#	65
76)	1,2,3-trichlorobenzene	22.22	180	939957	63.51	ppb		95
77)	MTBE	5.05	73	2600619	64.16	ppb		98
78)	DIPE	5.86	45	4791319	40.90	ppb		98

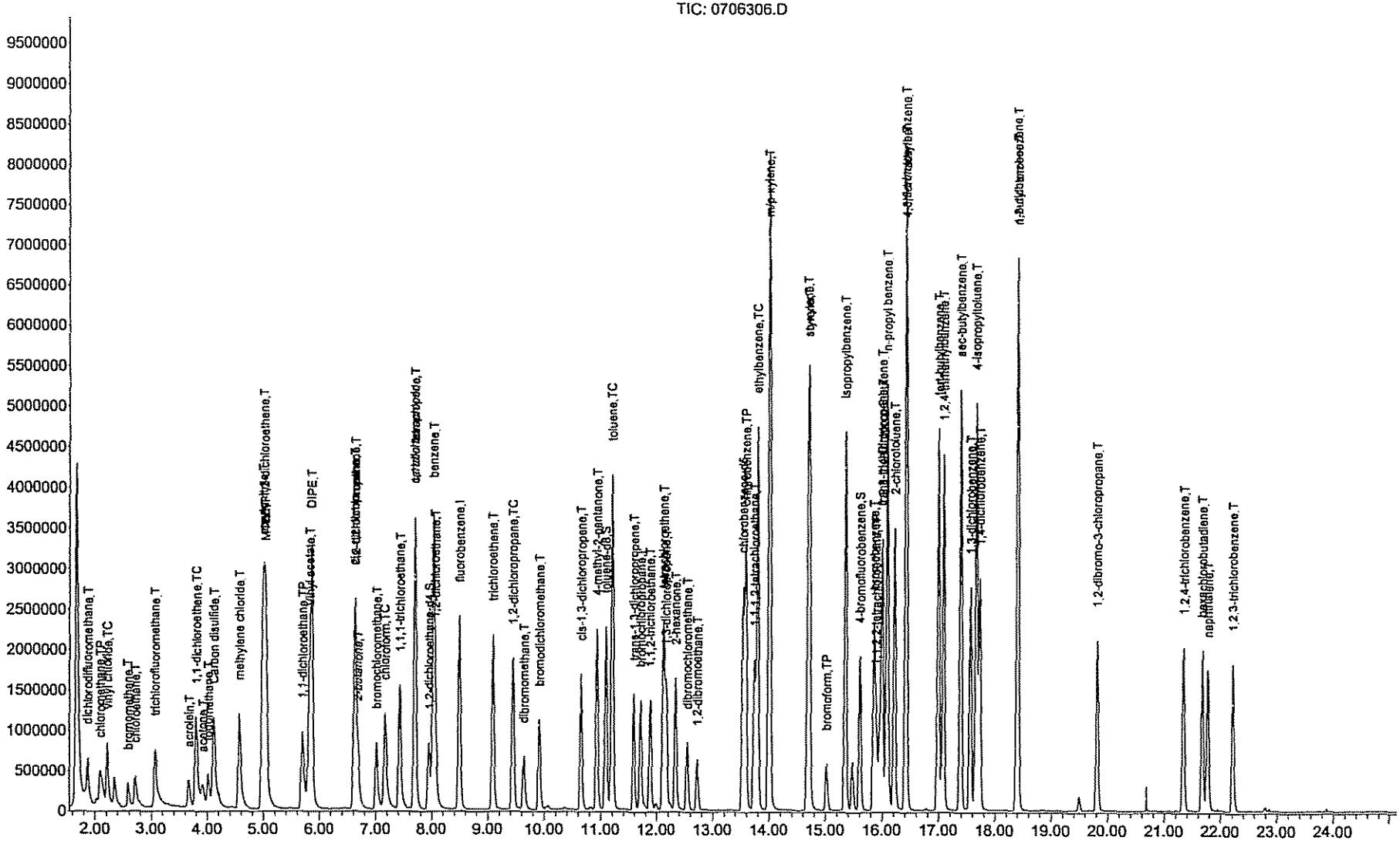
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070605\0706306.D Vial: 6
Acq On : 6 Jul 2005 11:56 am Operator: RNP
Sample : VSTD050 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 15:12 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

TIC: 0706306.D



0706306.D 8260SSC.M Tue Sep 06 15:34:40 2005

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706307.D Vial: 7
Acq On : 6 Jul 2005 12:28 pm Operator: RNP
Sample : VSTD100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 13:34 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.49	96	3260631	50.00	ppb	-0.02
39) bromochloropropane	11.72	79	419046	50.00	ppb	-0.01
53) chlorobenzene-d5	13.54	117	2504458	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.95	65	1019620	81.32	ppb	-0.01
Spiked Amount 50.000			Recovery	=	162.64%	
33) toluene-d8	11.09	98	2383282	50.38	ppb	-0.01
Spiked Amount 50.000			Recovery	=	100.76%	
49) 4-bromofluorobenzene	15.61	95	1304252	51.44	ppb	-0.01
Spiked Amount 50.000			Recovery	=	102.88%	

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.87	85	1768689	58.57	ppb #	84
3) chloromethane	2.10	50	2577823	72.80	ppb #	85
4) vinyl chloride	2.22	62	2657208	61.85	ppb #	88
5) bromomethane	2.58	94	627914	38.07	ppb	96
6) chloroethane	2.69	64	604631m	30.25	ppb	
7) trichlorofluoromethane	3.04	101	2358708	47.97	ppb	98
8) acrolein	3.67	56	683178	1427.52	ppb #	60
9) 1,1-dichloroethene	3.79	96	1751543	58.09	ppb	85
10) acetone	3.93	43	852031	301.42	ppb	97
11) methylene chloride	4.57	84	1951751	85.24	ppb	88
12) trans-1,2-dichloroethene	5.01	96	2168941	60.17	ppb	95
13) acrylonitrile	4.99	53	6429911	3044.83	ppb	92
14) 1,1-dichloroethane	5.69	63	4023865	67.78	ppb	94
15) 2,2-dichloropropane	6.63	77	2981821	54.01	ppb	95
16) cis-1,2-dichloroethene	6.64	96	2118429	71.59	ppb	91
17) 2-butanone	6.70	43	2046879	319.94	ppb #	100
18) bromochloromethane	7.02	128	741558	108.39	ppb	81
19) chloroform	7.17	83	3491247	71.54	ppb	89
20) 1,1,1-trichloroethane	7.43	97	3184193	56.57	ppb	89
21) carbon tetrachloride	7.70	117	2772439	56.13	ppb	100
22) 1,1-dichloropropene	7.70	75	3154164	57.85	ppb #	93
24) benzene	8.04	78	8910448	66.39	ppb	98
25) 1,2-dichloroethane	8.08	62	2404485	116.40	ppb	97
26) trichloroethene	9.09	95	2235131	61.53	ppb	88
27) 1,2-dichloropropane	9.45	63	2205667	82.66	ppb #	100
28) dibromomethane	9.63	93	892236	140.17	ppb #	99
29) bromodichloromethane	9.92	83	2300386	90.59	ppb #	83
31) cis-1,3-dichloropropene	10.66	75	2864241	98.56	ppb	97
32) 4-methyl-2-pentanone	10.93	43	5080750	316.57	ppb #	96
34) toluene	11.20	92	5501061	66.55	ppb	97
35) Iodomethane	4.01	142	1609402	50.91	ppb	91
36) trans-1,3-dichloropropene	11.59	75	2375435	124.56	ppb	99
37) vinyl acetate	5.81	86	444706	128.79	ppb #	1
38) carbon disulfide	4.11	76	6536567	59.05	ppb #	95
40) 1,1,2-trichloroethane	11.89	83	1211152	107.43	ppb #	83
41) tetrachloroethene	12.13	166	2006983	45.53	ppb	91
42) 1,3-dichloropropane	12.17	76	2625534	103.45	ppb #	84
43) 2-hexanone	12.34	43	3658014	288.78	ppb #	97
44) dibromochloromethane	12.55	129	1398226	101.04	ppb	87
45) 1,2-dibromoethane	12.73	107	1432792	124.46	ppb #	76
46) chlorobenzene	13.59	112	5610063	58.94	ppb	99
47) 1,1,1,2-tetrachloroethane	13.73	131	1470977	64.63	ppb	95
48) bromoform	15.03	173	906974	146.17	ppb #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706307.D Vial: 7
Acq On : 6 Jul 2005 12:28 pm Operator: RNP
Sample : VSTD100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 13:34 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	1860381	73.56	ppb		93
51)	1,1,2,2-tetrachloroethane	15.90	83	1900299	164.64	ppb	#	59
52)	1,2,3-trichloropropane	16.00	75	4349267	2880.96	ppb	#	7
54)	ethylbenzene	13.79	91	10865569	58.13	ppb		100
55)	m/p-xylene	14.01	106	7857013	118.57	ppb		97
56)	styrene	14.72	104	5414447	74.78	ppb		100
57)	o-xylene	14.69	106	3626248	64.32	ppb		97
58)	isopropylbenzene	15.35	105	10330862	56.90	ppb		99
59)	n-propyl benzene	16.09	91	13342632	59.09	ppb		94
60)	2-chlorotoluene	16.23	126	2000474	68.06	ppb		98
61)	4-chlorotoluene	16.42	126	2034934	70.56	ppb		94
62)	1,3,5-trimethylbenzene	16.42	105	8389400	63.07	ppb		95
63)	tert-butylbenzene	17.00	119	6985457	59.61	ppb		96
64)	1,2,4-trimethylbenzene	17.09	105	8368018	67.01	ppb		94
65)	sec-butylbenzene	17.39	105	11909884	58.04	ppb		98
66)	1,3-dichlorobenzene	17.57	146	3706614	77.62	ppb		96
67)	4-isopropyltoluene	17.67	119	9163564	61.02	ppb		93
68)	1,4-dichlorobenzene	17.73	146	3729119	81.54	ppb		95
69)	1,2-dichlorobenzene	18.40	146	3229653	93.90	ppb		94
70)	n-butylbenzene	18.41	91	9549856	61.60	ppb		99
71)	1,2-dibromo-3-chloropropan	19.82	75	1997107	278.54	ppb	#	44
72)	1,2,4-trichlorobenzene	21.33	180	2175914	103.71	ppb	#	82
73)	hexachlorobutadiene	21.68	225	979795	62.40	ppb		96
74)	naphthalene	21.77	128	5194272	276.16	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1596378	241.61	ppb	#	73
76)	1,2,3-trichlorobenzene	22.22	180	1916032	124.55	ppb		92
77)	MTBE	5.05	73	5145180	124.87	ppb		98
78)	DIPE	5.86	45	9052109	76.62	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

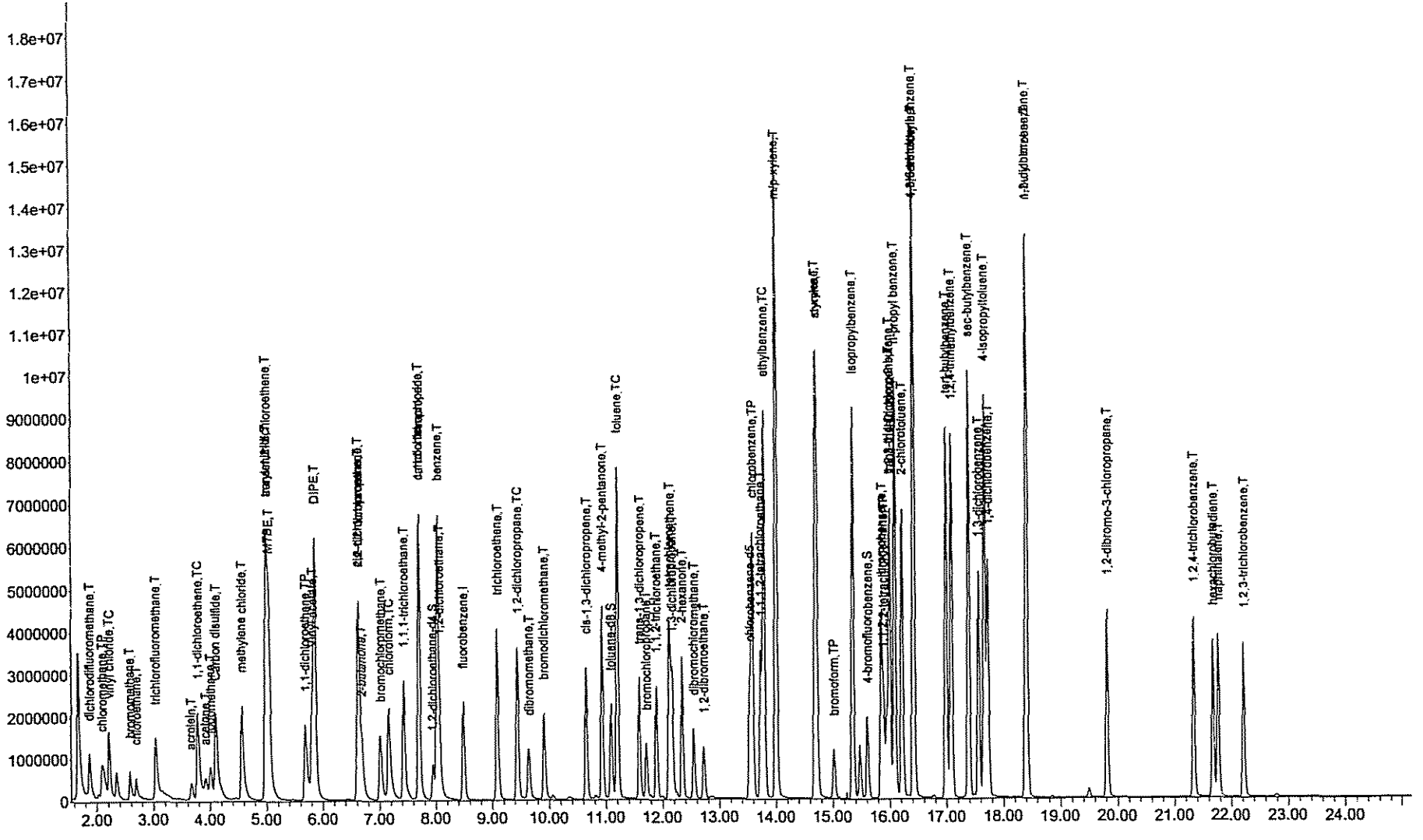
Data File : C:\HPCHEM\1\DATA\3070605\0706307.D
Acq On : 6 Jul 2005 12:28 pm
Sample : VSTD100
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 6 13:34 2005

Vial: 7
Operator: RNP
Inst : MSD3
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

TIC: 0706307.D



0706307.D 8260SSC.M Tue Sep 06 15:34:48 2005

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706308.D Vial: 8
Acq On : 6 Jul 2005 12:59 pm Operator: RNP
Sample : VSTD200 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 13:33 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.49	96	3493691	50.00	ppb		-0.03
39) bromochloropropane	11.72	79	436316	50.00	ppb		-0.02
53) chlorobenzene-d5	13.53	117	2590985	50.00	ppb		-0.02
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.94	65	982710	73.15	ppb		-0.02
Spiked Amount 50.000			Recovery	=	146.30%		
33) toluene-d8	11.09	98	2522054	49.75	ppb		-0.02
Spiked Amount 50.000			Recovery	=	99.50%		
49) 4-bromofluorobenzene	15.60	95	1343412	50.89	ppb		-0.02
Spiked Amount 50.000			Recovery	=	101.78%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.87	85	3519085	103.91	ppb	#	87
3) chloromethane	2.11	50	5068714	129.08	ppb	#	83
4) vinyl chloride	2.22	62	5577454	115.34	ppb	#	89
5) bromomethane	2.58	94	1274750	68.60	ppb		96
6) chloroethane	2.69	64	956573m	42.41	ppb		
7) trichlorofluoromethane	3.00	101	5344611m	95.68	ppb		
8) acrolein	3.68	56	984469	1940.05	ppb	#	58
9) 1,1-dichloroethene	3.76	96	3586604	111.01	ppb		89
10) acetone	3.94	43	1738954	586.08	ppb		96
11) methylene chloride	4.56	84	4017675	163.75	ppb		91
12) trans-1,2-dichloroethene	5.01	96	4538892	114.20	ppb		96
13) acrylonitrile	5.00	53	12604355	5544.64	ppb		92
14) 1,1-dichloroethane	5.69	63	8497339	133.58	ppb		94
15) 2,2-dichloropropane	6.61	77	6085379	102.87	ppb		92
16) cis-1,2-dichloroethene	6.63	96	4470727	138.38	ppb		89
17) 2-butanone	6.70	43	4145801	604.78	ppb	#	100
18) bromochloromethane	7.02	128	1549395	208.19	ppb		83
19) chloroform	7.17	83	7311400	136.80	ppb		93
20) 1,1,1-trichloroethane	7.43	97	6675083	106.56	ppb		91
21) carbon tetrachloride	7.70	117	5760372	108.84	ppb		99
22) 1,1-dichloropropene	7.70	75	6611998	113.18	ppb	#	93
24) benzene	8.02	78	19011034	128.56	ppb		98
25) 1,2-dichloroethane	8.07	62	4879422	218.15	ppb		98
26) trichloroethene	9.09	95	4750649	119.10	ppb		87
27) 1,2-dichloropropane	9.44	63	4640381	159.45	ppb	#	100
28) dibromomethane	9.63	93	1818065	266.57	ppb	#	98
29) bromodichloromethane	9.92	83	4849559	175.28	ppb	#	81
31) cis-1,3-dichloropropene	10.66	75	6024092	191.00	ppb		96
32) 4-methyl-2-pentanone	10.94	43	10356038	600.75	ppb	#	97
34) toluene	11.20	92	11716086	132.28	ppb		89
35) Iodomethane	3.99	142	3283301	92.16	ppb		90
36) trans-1,3-dichloropropene	11.59	75	5070518	245.88	ppb		99
37) Vinyl acetate	5.82	86	743754	200.68	ppb	#	1
38) Carbon disulfide	4.09	76	13730072	115.76	ppb	#	95
40) 1,1,2-trichloroethane	11.89	83	2520700	212.93	ppb	#	79
41) tetrachloroethene	12.12	166	4210520	91.74	ppb		91
42) 1,3-dichloropropane	12.16	76	5557888	209.97	ppb	#	84
43) 2-hexanone	12.35	43	7375301	558.31	ppb	#	96
44) dibromochloromethane	12.55	129	2893675	200.33	ppb		92
45) 1,2-dibromoethane	12.73	107	2977584	247.41	ppb	#	78
46) chlorobenzene	13.58	112	11808543	119.14	ppb		99
47) 1,1,1,2-tetrachloroethane	13.74	131	3082843	129.23	ppb		96
48) bromoform	15.02	173	1883980	289.43	ppb	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070605\0706308.D Vial: 8
Acq On : 6 Jul 2005 12:59 pm Operator: RNP
Sample : VSTD200 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 6 13:33 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 01 16:00:38 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	bromobenzene	15.86	156	3857232	146.48 ppb		94
51)	1,1,2,2-tetrachloroethane	15.90	83	3865784	320.47 ppb	#	64
52)	1,2,3-trichloropropane	16.01	75	8954770	5698.72 ppb	#	8
54)	ethylbenzene	13.79	91	20487483	105.94 ppb		94
55)	m/p-xylene	14.01	106	16519784	233.67 ppb	#	60
56)	styrene	14.72	104	11331457	148.09 ppb		100
57)	o-xylene	14.69	106	7524751	125.64 ppb		94
58)	isopropylbenzene	15.36	105	19924189	102.11 ppb		98
59)	n-propyl benzene	16.09	91	22066811	91.66 ppb		95
60)	2-chlorotoluene	16.22	126	3992623	131.31 ppb		94
61)	4-chlorotoluene	16.42	126	4041233	132.80 ppb		100
62)	1,3,5-trimethylbenzene	16.42	105	17163880	120.26 ppb		95
63)	tert-butylbenzene	16.99	119	14401993	118.80 ppb		96
64)	1,2,4-trimethylbenzene	17.08	105	17242598	128.92 ppb		91
65)	sec-butylbenzene	17.39	105	21044874	95.18 ppb	#	87
66)	1,3-dichlorobenzene	17.57	146	7688505	152.44 ppb		97
67)	4-isopropyltoluene	17.66	119	18053185	111.04 ppb		100
68)	1,4-dichlorobenzene	17.73	146	7653765	161.77 ppb		92
69)	1,2-dichlorobenzene	18.39	146	6573288	182.02 ppb		94
70)	n-butylbenzene	18.41	91	18690008	111.49 ppb	#	90
71)	1,2-dibromo-3-chloropropan	19.81	75	4088062	548.52 ppb	#	49
72)	1,2,4-trichlorobenzene	21.34	180	4551065	205.70 ppb	#	81
73)	hexachlorobutadiene	21.68	225	2093202	122.54 ppb		95
74)	naphthalene	21.77	128	10674151	541.47 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.01	89	3220913	467.27 ppb	#	75
76)	1,2,3-trichlorobenzene	22.22	180	3994647	247.19 ppb		95
77)	MTBE	5.06	73	10747834	251.06 ppb		97
78)	DIPE	5.86	45	19118072	156.41 ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

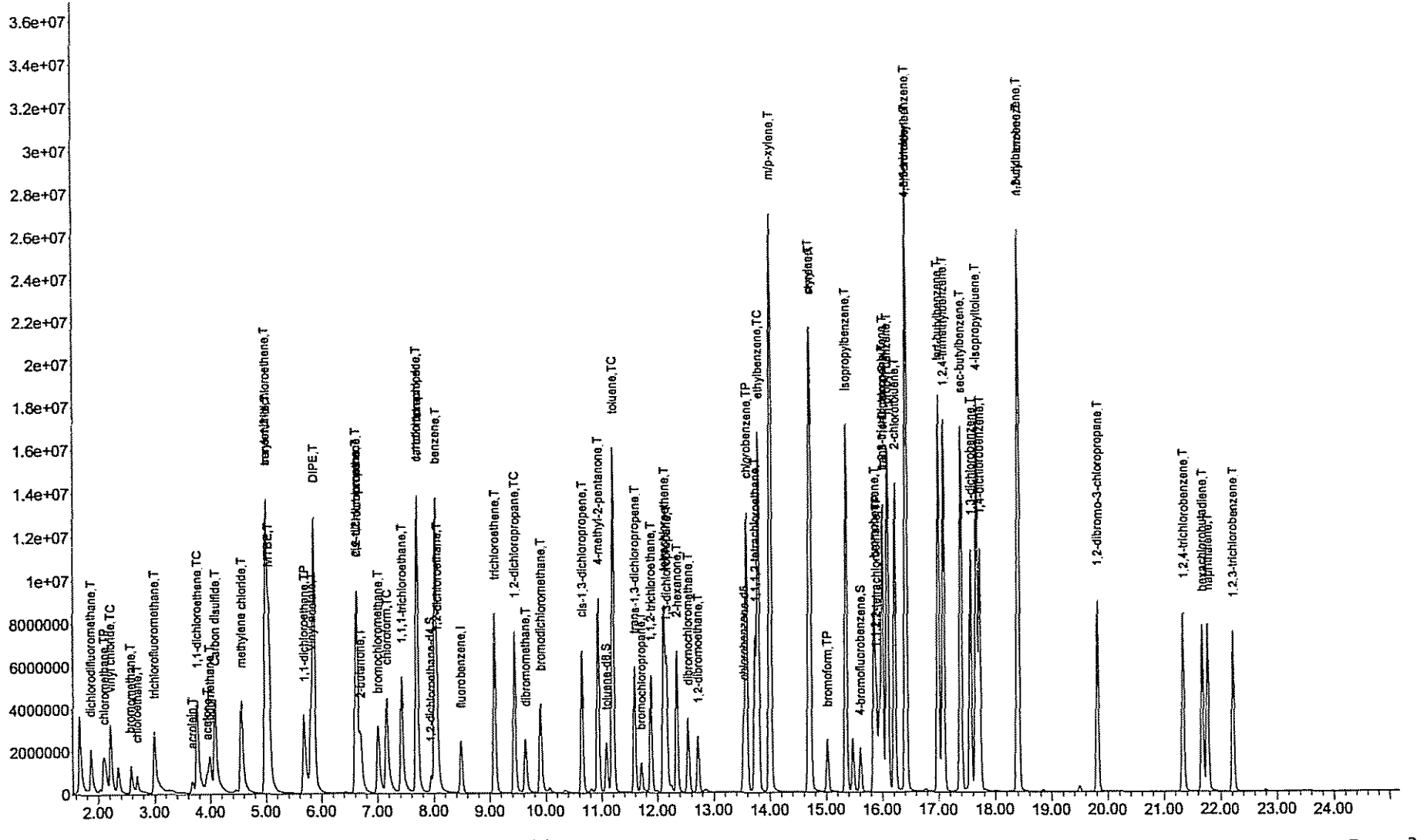
Data File : C:\HPCHEM\1\DATA\3070605\0706308.D
Acq On : 6 Jul 2005 12:59 pm
Sample : VSTD200
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 6 13:33 2005

Vial: 8
Operator: RNP
Inst : MSD3
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070605\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Jul 06 13:49:34 2005
Response via : Initial Calibration

TIC: 0706308.D



5035 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3070805\0708303.D Vial: 3
Acq On : 8 Jul 2005 8:49 am Operator: RNP
Sample : QCCHK100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 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	77	-0.01
2	T	dichlorodifluoromethane	0.221	0.202	8.6	66	0.00
3	TP	chloromethane	0.323	0.293	9.3	65	0.00
4	TC	vinyl chloride	0.333	0.328	1.5	70	0.00
5	T	bromomethane	0.090	0.077	14.4	68	-0.03
6	T	chloroethane	0.162	0.000	100.0#	0#	-0.07
7	T	trichlorofluoromethane	0.347	0.285	17.9	59	-0.07
8	T	acrolein	0.305	0.327	-7.2	191#	0.00
9	TC	1,1-dichloroethene	0.241	0.238	1.2	75	-0.04
10	T	acetone	0.230	0.181	21.3	89	0.02
11	T	methylene chloride	0.297	0.289	2.7	77	-0.01
12	T	trans-1,2-dichloroethene	0.314	0.313	0.3	75	-0.02
13	T	acrylonitrile	1.218	1.237	-1.6	88	0.00
14	TP	1,1-dichloroethane	0.568	0.557	1.9	74	-0.02
15	T	2,2-dichloropropane	0.453	0.418	7.7	70	-0.02
16	T	cis-1,2-dichloroethene	0.316	0.315	0.3	76	0.00
17	T	2-butanone	0.424	0.439	-3.5	89	0.00
18	T	bromochloromethane	0.114	0.115	-0.9	78	-0.02
19	TC	chloroform	0.497	0.497	0.0	76	0.00
20	T	1,1,1-trichloroethane	0.445	0.423	4.9	70	-0.02
21	T	carbon tetrachloride	0.389	0.373	4.1	71	-0.02
22	T	1,1-dichloropropene	0.443	0.430	2.9	73	-0.01
23	S	1,2-dichloroethane-d4	0.313	0.297	5.1	72	0.00
24	T	benzene	1.319	1.289	2.3	75	-0.02
25	T	1,2-dichloroethane	0.367	0.349	4.9	78	0.00
26	T	trichloroethene	0.324	0.314	3.1	74	-0.01
27	TC	1,2-dichloropropane	0.325	0.317	2.5	75	-0.01
28	T	dibromomethane	0.151	0.153	-1.3	83	-0.01
29	T	bromodichloromethane	0.343	0.338	1.5	76	0.00
30	T	2-chloroethyl vinyl ether	0.000	0.000	0.0	0#	-10.44#
31	T	cis-1,3-dichloropropene	0.429	0.433	-0.9	79	0.00
32	T	4-methyl-2-pentanone	0.968	0.970	-0.2	85	0.00
33	S	toluene-d8	0.721	0.747	-3.6	79	-0.01
34	TC	toluene	0.796	0.800	-0.5	76	-0.01
35	T	Iodomethane	0.209	0.238	-13.9	85	-0.03
36	T	trans-1,3-dichloropropene	0.368	0.375	-1.9	80	0.00
37	T	Vinyl acetate	0.131	0.140	-6.9	127	0.00
38	T	Carbon disulfide	0.897	0.879	2.0	73	-0.04
39	I	bromochloropropane	1.000	1.000	0.0	78	-0.01
40	T	1,1,2-trichloroethane	1.557	1.522	2.2	82	0.00
41	T	tetrachloroethene	2.260	2.194	2.9	76	-0.01
42	T	1,3-dichloropropane	3.331	3.276	1.7	82	0.00
43	T	2-hexanone	5.530	5.519	0.2	86	0.00
44	T	dibromochloromethane	1.720	1.652	4.0	79	0.00
45	T	1,2-dibromoethane	1.865	1.830	1.9	83	0.00
46	TP	chlorobenzene	6.542	6.256	4.4	76	0.00
47	T	1,1,1,2-tetrachloroethane	1.724	1.638	5.0	76	0.00
48	TP	bromoform	1.146	1.179	-2.9	82	-0.02
49	S	4-bromofluorobenzene	2.946	2.984	-1.3	76	-0.01
50	T	bromobenzene	2.171	2.091	3.7	77	-0.01
51	TP	1,1,2,2-tetrachloroethane	2.519	2.642	-4.9	87	-0.01
52	T	1,2,3-trichloropropane	5.319	6.254	-17.6	85	-0.09
53		chlorobenzene-d5	1.000	1.000	0.0	77	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\3070805\0708303.D Vial: 3
Acq On : 8 Jul 2005 8:49 am Operator: RNP
Sample : QCCHK100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 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)
54	TC	ethylbenzene	2.007	1.990	0.8	75	-0.01
55	T	m/p-xylene	0.740	0.722	2.4	75	0.00
56	T	styrene	1.035	1.013	2.1	76	0.00
57	T	o-xylene	0.683	0.656	4.0	74	0.00
58	T	isopropylbenzene	1.886	1.832	2.9	73	0.00
59	T	n-propyl benzene	2.355	2.370	-0.6	73	0.00
60	T	2-chlorotoluene	0.373	0.362	2.9	75	-0.01
61	T	4-chlorotoluene	0.387	0.375	3.1	77	0.00
62	T	1,3,5-trimethylbenzene	1.527	1.505	1.4	75	0.00
63	T	tert-butylbenzene	1.266	1.250	1.3	75	-0.01
64	T	1,2,4-trimethylbenzene	1.515	1.498	1.1	75	0.00
65	T	sec-butylbenzene	2.110	2.086	1.1	74	0.00
66	T	1,3-dichlorobenzene	0.710	0.685	3.5	76	-0.01
67	T	4-isopropyltoluene	1.646	1.632	0.9	75	0.00
68	T	1,4-dichlorobenzene	0.718	0.697	2.9	77	-0.01
69	T	1,2-dichlorobenzene	0.631	0.615	2.5	78	-0.02
70	T	n-butylbenzene	1.725	1.710	0.9	75	0.00
71	T	1,2-dibromo-3-chloropropane	0.487	0.499	-2.5	87	0.00
72	T	1,2,4-trichlorobenzene	0.446	0.439	1.6	80	0.00
73	T	hexachlorobutadiene	0.185	0.185	0.0	79	0.00
74	T	naphthalene	1.218	1.156	5.1	80	-0.01
75	T	trans-1,4-Dichloro-2-butene	0.373	0.388	-4.0	87	0.00
76	T	1,2,3-trichlorobenzene	0.409	0.397	2.9	80	0.00
77	T	MTBE	1.065	1.043	2.1	80	0.00
78	T	DIPE	1.776	1.647	7.3	73	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708303.D Vial: 3
Acq On : 8 Jul 2005 8:49 am Operator: RNP
Sample : QCCHK100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:14 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.50	96	2592770	50.00	ppb		-0.01
39) bromochloropropane	11.73	79	336989	50.00	ppb		-0.01
53) chlorobenzene-d5	13.54	117	1995860	50.00	ppb		-0.01
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	7.96	65	770306	47.41	ppb		0.00
Spiked Amount 50.000			Recovery = 94.82%				
33) toluene-d8	11.10	98	1936068	51.80	ppb		-0.01
Spiked Amount 50.000			Recovery = 103.60%				
49) 4-bromofluorobenzene	15.61	95	1005569	50.64	ppb		-0.01
Spiked Amount 50.000			Recovery = 101.28%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.90	85	1047852	91.45	ppb	#	85
3) chloromethane	2.11	50	1520055	90.63	ppb	#	86
4) vinyl chloride	2.24	62	1701223	98.40	ppb	#	88
5) bromomethane	2.61	94	398029	84.84	ppb		94
6) chloroethane	2.71	64	301892	35.06	ppb	#	82
7) trichlorofluoromethane	3.04	101	1478740	82.07	ppb		95
8) acrolein	3.69	56	1697191	223.43	ppb	#	59
9) 1,1-dichloroethene	3.80	96	1233009	98.55	ppb		95
10) acetone	3.96	43	938531	115.15	ppb		94
11) methylene chloride	4.59	84	1496893	97.11	ppb		97
12) trans-1,2-dichloroethene	5.02	96	1623730	99.87	ppb		97
13) acrylonitrile	5.01	53	6414226	101.56	ppb		92
14) 1,1-dichloroethane	5.70	63	2886648	97.97	ppb		95
15) 2,2-dichloropropane	6.63	77	2168677	92.27	ppb		98
16) cis-1,2-dichloroethene	6.65	96	1633052	99.61	ppb		85
17) 2-butanone	6.71	43	2274435	118.59	ppb	#	100
18) bromochloromethane	7.02	128	596086	101.28	ppb		84
19) chloroform	7.18	83	2576147	99.93	ppb		91
20) 1,1,1-trichloroethane	7.44	97	2192382	95.01	ppb		90
21) carbon tetrachloride	7.70	117	1932934	95.71	ppb		98
22) 1,1-dichloropropene	7.71	75	2230322	97.05	ppb	#	94
24) benzene	8.04	78	6682553	97.67	ppb		99
25) 1,2-dichloroethane	8.08	62	1810245	95.16	ppb		100
26) trichloroethene	9.09	95	1625860	96.86	ppb		88
27) 1,2-dichloropropane	9.45	63	1645598	97.78	ppb	#	100
28) dibromomethane	9.65	93	793591	101.57	ppb	#	95
29) bromodichloromethane	9.92	83	1754671	98.73	ppb	#	83
31) cis-1,3-dichloropropene	10.66	75	2245327	100.86	ppb		100
32) 4-methyl-2-pentanone	10.94	43	5032100	100.26	ppb	#	95
34) toluene	11.20	92	4148398	100.54	ppb		97
35) Iodomethane	4.03	142	1232705	113.88	ppb		91
36) trans-1,3-dichloropropene	11.60	75	1942080	101.77	ppb		100
37) Vinyl acetate	5.83	86	726850	160.31	ppb	#	1
38) Carbon disulfide	4.12	76	4560612	98.01	ppb	#	95
40) 1,1,2-trichloroethane	11.89	83	1025763	97.74	ppb	#	80
41) tetrachloroethene	12.12	166	1478584	97.08	ppb	#	90
42) 1,3-dichloropropane	12.17	76	2207764	98.33	ppb	#	84
43) 2-hexanone	12.35	43	3719545	99.79	ppb	#	94
44) dibromochloromethane	12.55	129	1113083	96.04	ppb		87
45) 1,2-dibromoethane	12.73	107	1233318	98.12	ppb	#	76
46) chlorobenzene	13.59	112	4216665	95.63	ppb		100
47) 1,1,1,2-tetrachloroethane	13.74	131	1104109	95.00	ppb		97
48) bromoform	15.02	173	794727	110.45	ppb	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708303.D Vial: 3
Acq On : 8 Jul 2005 8:49 am Operator: RNP
Sample : QCCHK100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:14 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	1409265	96.33	ppb		96
51)	1,1,2,2-tetrachloroethane	15.90	83	1780542	104.89	ppb	#	66
52)	1,2,3-trichloropropane	16.00	75	4215108	113.63	ppb	#	10
54)	ethylbenzene	13.80	91	7944091	99.15	ppb		99
55)	m/p-xylene	14.00	106	5766584	195.32	ppb		95
56)	styrene	14.72	104	4045259	97.90	ppb		100
57)	o-xylene	14.69	106	2617836	96.06	ppb		95
58)	isopropylbenzene	15.35	105	7312227	97.15	ppb		99
59)	n-propyl benzene	16.09	91	9461608	100.63	ppb		96
60)	2-chlorotoluene	16.22	126	1444535	97.11	ppb		98
61)	4-chlorotoluene	16.42	126	1496909	97.02	ppb		91
62)	1,3,5-trimethylbenzene	16.42	105	6008102	98.58	ppb		97
63)	tert-butylbenzene	16.99	119	4989761	98.75	ppb		96
64)	1,2,4-trimethylbenzene	17.09	105	5979217	98.86	ppb		92
65)	sec-butylbenzene	17.39	105	8328081	98.88	ppb		98
66)	1,3-dichlorobenzene	17.56	146	2733688	96.43	ppb		95
67)	4-isopropyltoluene	17.67	119	6513953	99.12	ppb		92
68)	1,4-dichlorobenzene	17.73	146	2782802	97.06	ppb		94
69)	1,2-dichlorobenzene	18.39	146	2454228	97.49	ppb		93
70)	n-butylbenzene	18.41	91	6826042	99.11	ppb		98
71)	1,2-dibromo-3-chloropropan	19.82	75	1990745	102.32	ppb	#	36
72)	1,2,4-trichlorobenzene	21.34	180	1753913	98.45	ppb	#	81
73)	hexachlorobutadiene	21.68	225	738252	99.81	ppb		93
74)	naphthalene	21.77	128	4615772	106.07	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1548307	104.08	ppb	#	75
76)	1,2,3-trichlorobenzene	22.22	180	1585156	97.17	ppb		96
77)	MTBE	5.07	73	4165209	98.01	ppb		98
78)	DIPE	5.87	45	6574036	92.75	ppb		97

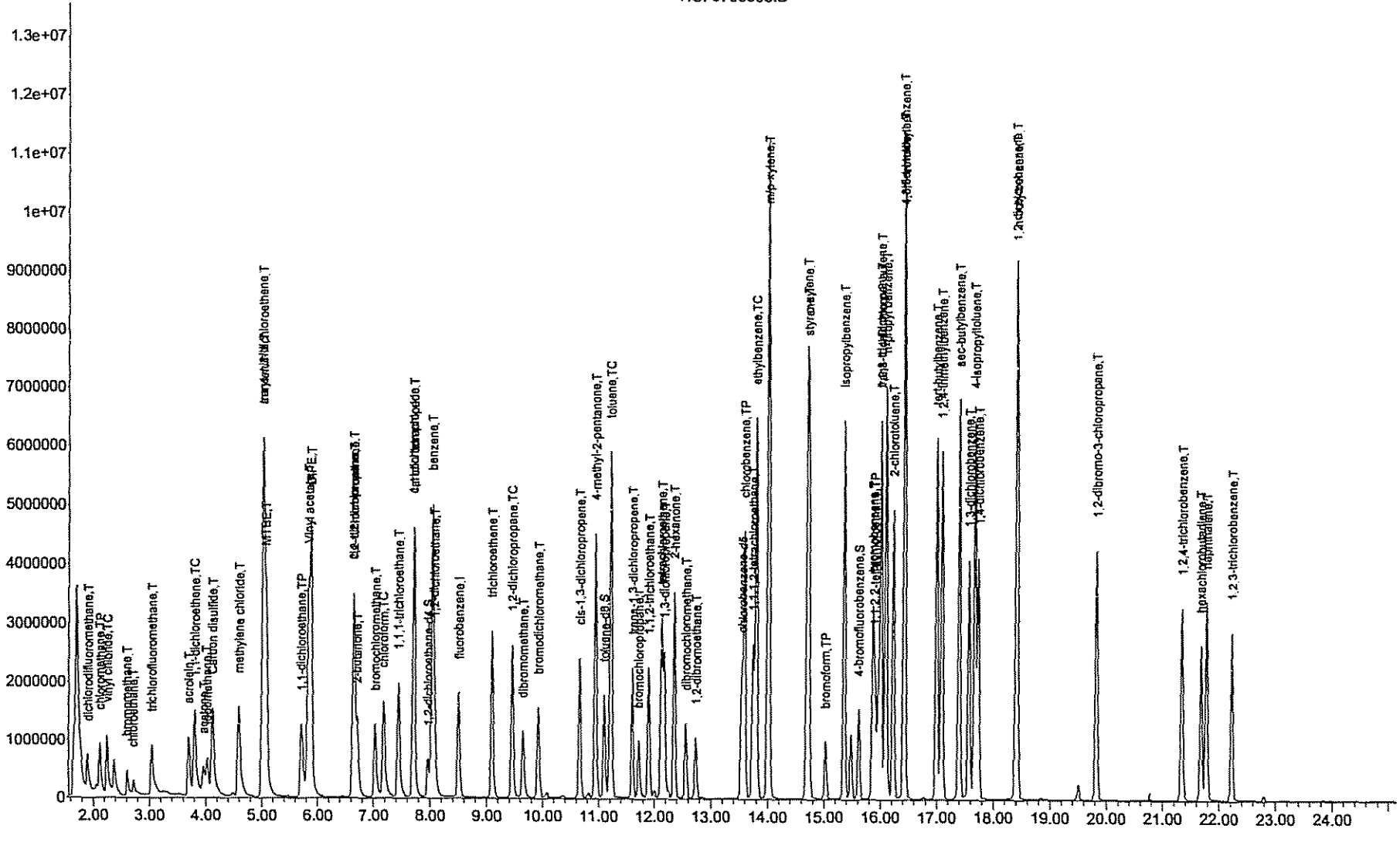
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708303.D Vial: 3
Acq On : 8 Jul 2005 8:49 am Operator: RNP
Sample : QCCHK100 Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:14 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708303.D



0708303.D 8260SSC.M Tue Sep 06 15:40:47 2005

Page 3

5035 QC, Blanks Raw Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708304.D Vial: 4
Acq On : 8 Jul 2005 9:20 am Operator: RNP
Sample : LCS3070805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:45 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.50	96	2667157	50.00	ppb	-0.02
39) bromochloropropane	11.72	79	348526	50.00	ppb	-0.02
53) chlorobenzene-d5	13.53	117	2044352	50.00	ppb	-0.02
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.95	65	806032	48.22	ppb	0.00
Spiked Amount 50.000			Recovery =	96.44%		
33) toluene-d8	11.10	98	2000265	52.03	ppb	0.00
Spiked Amount 50.000			Recovery =	104.06%		
49) 4-bromofluorobenzene	15.61	95	1026373	49.98	ppb	0.00
Spiked Amount 50.000			Recovery =	99.96%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.89	85	1172981	99.51	ppb #	86
3) chloromethane	2.12	50	1657221	96.05	ppb #	85
4) vinyl chloride	2.25	62	1846192	103.81	ppb #	88
5) bromomethane	2.60	94	425294	88.12	ppb	92
6) chloroethane	2.71	64	324573	36.64	ppb #	87
7) trichlorofluoromethane	3.05	101	1646819	88.85	ppb	99
8) acrolein	3.70	56	1162649	132.80	ppb #	60
9) 1,1-dichloroethene	3.80	96	1306328	101.49	ppb	96
10) acetone	3.96	43	858026	100.87	ppb	92
11) methylene chloride	4.59	84	1499894	94.59	ppb	97
12) trans-1,2-dichloroethene	5.03	96	1700790	101.69	ppb	93
13) acrylonitrile	5.02	53	5944876	91.50	ppb	92
14) 1,1-dichloroethane	5.71	63	3020146	99.64	ppb	92
15) 2,2-dichloropropane	6.63	77	2267224	93.78	ppb	99
16) cis-1,2-dichloroethene	6.65	96	1687321	100.05	ppb	83
17) 2-butanone	6.71	43	2047526	103.06	ppb #	100
18) bromochloromethane	7.03	128	589241	97.32	ppb	83
19) chloroform	7.18	83	2638454	99.49	ppb	94
20) 1,1,1-trichloroethane	7.44	97	2328552	98.09	ppb	89
21) carbon tetrachloride	7.71	117	2070309	99.65	ppb	97
22) 1,1-dichloropropene	7.71	75	2377831	100.58	ppb	96
24) benzene	8.04	78	6894673	97.96	ppb	99
25) 1,2-dichloroethane	8.08	62	1767179	90.30	ppb	99
26) trichloroethene	9.10	95	1697268	98.29	ppb	88
27) 1,2-dichloropropane	9.45	63	1688213	97.51	ppb #	100
28) dibromomethane	9.64	93	765360	95.22	ppb #	100
29) bromodichloromethane	9.92	83	1754221	95.95	ppb #	82
31) cis-1,3-dichloropropene	10.66	75	2261898	98.77	ppb	97
32) 4-methyl-2-pentanone	10.94	43	4675265	90.55	ppb #	94
34) toluene	11.21	92	4320535	101.79	ppb	97
35) Iodomethane	4.03	142	1248376	112.11	ppb	91
36) trans-1,3-dichloropropene	11.59	75	1900876	96.83	ppb	98
37) Vinyl acetate	5.83	86	581692	124.71	ppb #	1
38) Carbon disulfide	4.13	76	4829409	100.89	ppb #	95
40) 1,1,2-trichloroethane	11.90	83	1001496	92.27	ppb #	78
41) tetrachloroethene	12.12	166	1551601	98.50	ppb	94
42) 1,3-dichloropropane	12.17	76	2153493	92.74	ppb #	82
43) 2-hexanone	12.35	43	3404686	88.32	ppb #	94
44) dibromochloromethane	12.55	129	1102530	91.98	ppb	90
45) 1,2-dibromoethane	12.73	107	1203194	92.56	ppb #	78
46) chlorobenzene	13.58	112	4328803	94.92	ppb	100
47) 1,1,1,2-tetrachloroethane	13.73	131	1123343	93.46	ppb	95
48) bromoform	15.02	173	755458	101.17	ppb #	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708304.D Vial: 4
Acq On : 8 Jul 2005 9:20 am Operator: RNP
Sample : LCS3070805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:45 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

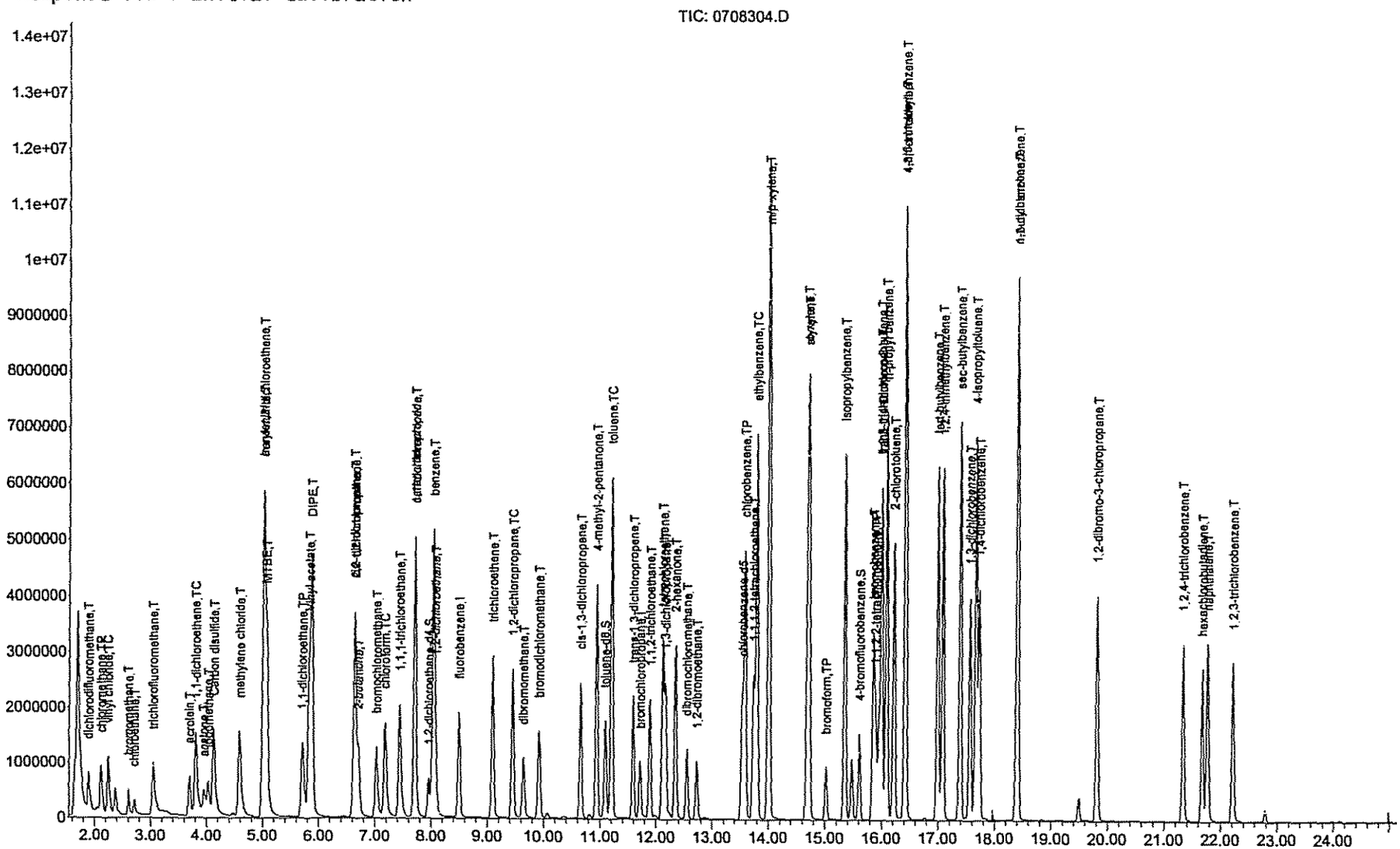
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	1428587	94.42	ppb		93
51)	1,1,2,2-tetrachloroethane	15.90	83	1663257	94.74	ppb	#	62
52)	1,2,3-trichloropropane	16.00	75	3972144	103.29	ppb	#	9
54)	ethylbenzene	13.79	91	8314596	101.32	ppb		99
55)	m/p-xylene	14.01	106	5988849	198.04	ppb		96
56)	styrene	14.72	104	4139201	97.79	ppb		100
57)	o-xylene	14.69	106	2729682	97.79	ppb		96
58)	isopropylbenzene	15.36	105	7623299	98.88	ppb		99
59)	n-propyl benzene	16.09	91	9836052	102.13	ppb		96
60)	2-chlorotoluene	16.23	126	1467631	96.32	ppb		99
61)	4-chlorotoluene	16.42	126	1514597	95.84	ppb		93
62)	1,3,5-trimethylbenzene	16.41	105	6176520	98.94	ppb		97
63)	tert-butylbenzene	16.99	119	5081545	98.18	ppb		95
64)	1,2,4-trimethylbenzene	17.08	105	6128287	98.92	ppb		94
65)	sec-butylbenzene	17.39	105	8658545	100.36	ppb		98
66)	1,3-dichlorobenzene	17.57	146	2779134	95.70	ppb		95
67)	4-isopropyltoluene	17.66	119	6788744	100.85	ppb		93
68)	1,4-dichlorobenzene	17.72	146	2810946	95.72	ppb		92
69)	1,2-dichlorobenzene	18.39	146	2409849	93.46	ppb		91
70)	n-butylbenzene	18.40	91	6986175	99.03	ppb		100
71)	1,2-dibromo-3-chloropropan	19.81	75	1816695	91.16	ppb	#	42
72)	1,2,4-trichlorobenzene	21.33	180	1713203	93.88	ppb		83
73)	hexachlorobutadiene	21.68	225	763108	100.73	ppb		97
74)	naphthalene	21.77	128	4379521	97.92	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1428219	93.73	ppb	#	77
76)	1,2,3-trichlorobenzene	22.22	180	1542138	92.29	ppb		94
77)	MTBE	5.08	73	4043076	92.88	ppb		96
78)	DIPE	5.87	45	6681409	92.03	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708304.D Vial: 4
Acq On : 8 Jul 2005 9:20 am Operator: RNP
Sample : LCS3070805a Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 9:45 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration



0708304.D 8260SSC.M Tue Sep 06 15:41:18 2005

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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708305.D Vial: 5
Acq On : 8 Jul 2005 9:51 am Operator: RNP
Sample : LCS3070805b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 10:16 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.50	96	2638112	50.00	ppb	-0.01
39) bromochloropropane	11.72	79	345618	50.00	ppb	-0.02
53) chlorobenzene-d5	13.54	117	2014442	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.96	65	804010	48.63	ppb	0.00
Spiked Amount 50.000			Recovery = 97.26%			
33) toluene-d8	11.09	98	1943949	51.12	ppb	-0.01
Spiked Amount 50.000			Recovery = 102.24%			
49) 4-bromofluorobenzene	15.61	95	1018133	50.00	ppb	-0.01
Spiked Amount 50.000			Recovery = 100.00%			

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.90	85	1148823	98.53	ppb	#	83
3) chloromethane	2.11	50	1617084	94.75	ppb	#	86
4) vinyl chloride	2.24	62	1878364	106.78	ppb	#	89
5) bromomethane	2.60	94	430558	90.19	ppb		92
6) chloroethane	2.71	64	324824	37.07	ppb		92
7) trichlorofluoromethane	3.03	101	1728386	94.27	ppb		100
8) acrolein	3.69	56	819518	80.88	ppb	#	59
9) 1,1-dichloroethene	3.80	96	1350108	106.05	ppb		93
10) acetone	3.96	43	1000315	121.24	ppb		95
11) methylene chloride	4.58	84	1568517	100.01	ppb		93
12) trans-1,2-dichloroethene	5.02	96	1732898	104.75	ppb		95
13) acrylonitrile	5.01	53	6966116	108.40	ppb		92
14) 1,1-dichloroethane	5.70	63	3124870	104.23	ppb		93
15) 2,2-dichloropropane	6.63	77	2349582	98.25	ppb		96
16) cis-1,2-dichloroethene	6.65	96	1751375	104.99	ppb		84
17) 2-butanone	6.71	43	2433221	124.99	ppb	#	100
18) bromochloromethane	7.02	128	628256	104.91	ppb		85
19) chloroform	7.17	83	2738993	104.42	ppb		89
20) 1,1,1-trichloroethane	7.44	97	2406638	102.50	ppb		93
21) carbon tetrachloride	7.70	117	2100180	102.20	ppb		99
22) 1,1-dichloropropene	7.70	75	2427472	103.81	ppb	#	95
24) benzene	8.04	78	7116365	102.22	ppb		100
25) 1,2-dichloroethane	8.08	62	1925152	99.46	ppb		99
26) trichloroethene	9.09	95	1736607	101.67	ppb	#	85
27) 1,2-dichloropropane	9.45	63	1761028	102.84	ppb	#	100
28) dibromomethane	9.64	93	840725	105.75	ppb	#	99
29) bromodichloromethane	9.92	83	1853093	102.48	ppb	#	80
31) cis-1,3-dichloropropene	10.65	75	2401315	106.01	ppb		98
32) 4-methyl-2-pentanone	10.94	43	5632206	110.29	ppb	#	94
34) toluene	11.20	92	4442739	105.83	ppb		95
35) Iodomethane	4.03	142	1383374	125.60	ppb		95
36) trans-1,3-dichloropropene	11.59	75	2050651	105.61	ppb		100
37) Vinyl acetate	5.83	86	482641	104.62	ppb	#	1
38) Carbon disulfide	4.12	76	4899069	103.47	ppb	#	95
40) 1,1,2-trichloroethane	11.89	83	1101923	102.38	ppb	#	80
41) tetrachloroethene	12.12	166	1582012	101.27	ppb		91
42) 1,3-dichloropropane	12.17	76	2354214	102.24	ppb	#	84
43) 2-hexanone	12.35	43	4276580	111.87	ppb	#	93
44) dibromochloromethane	12.55	129	1181583	99.41	ppb		89
45) 1,2-dibromoethane	12.72	107	1343116	104.19	ppb	#	76
46) chlorobenzene	13.59	112	4481851	99.11	ppb		99
47) 1,1,1,2-tetrachloroethane	13.74	131	1170658	98.22	ppb		97
48) bromoform	15.02	173	853713	115.89	ppb	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708305.D Vial: 5
Acq On : 8 Jul 2005 9:51 am Operator: RNP
Sample : LCS3070805b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 10:16 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	1519157	101.25	ppb		93
51)	1,1,2,2-tetrachloroethane	15.90	83	1942040	111.55	ppb	#	63
52)	1,2,3-trichloropropane	16.00	75	4790929	126.24	ppb	#	10
54)	ethylbenzene	13.80	91	8500143	105.12	ppb		99
55)	m/p-xylene	14.00	106	6199503	208.05	ppb		96
56)	styrene	14.72	104	4365966	104.68	ppb		100
57)	o-xylene	14.69	106	2870041	104.35	ppb		97
58)	isopropylbenzene	15.35	105	7847265	103.30	ppb		100
59)	n-propyl benzene	16.09	91	10299353	108.53	ppb		95
60)	2-chlorotoluene	16.22	126	1552288	103.39	ppb		100
61)	4-chlorotoluene	16.42	126	1573062	101.01	ppb		94
62)	1,3,5-trimethylbenzene	16.42	105	6464170	105.08	ppb		97
63)	tert-butylbenzene	16.99	119	5383488	105.56	ppb		96
64)	1,2,4-trimethylbenzene	17.08	105	6409012	104.98	ppb		94
65)	sec-butylbenzene	17.39	105	8963917	105.45	ppb		99
66)	1,3-dichlorobenzene	17.56	146	2976922	104.04	ppb		96
67)	4-isopropyltoluene	17.67	119	7143597	107.70	ppb		92
68)	1,4-dichlorobenzene	17.73	146	2946316	101.82	ppb		95
69)	1,2-dichlorobenzene	18.39	146	2647444	104.20	ppb		95
70)	n-butylbenzene	18.41	91	7299136	105.01	ppb		98
71)	1,2-dibromo-3-chloropropan	19.81	75	2305933	117.42	ppb	#	48
72)	1,2,4-trichlorobenzene	21.34	180	1891973	105.22	ppb	#	79
73)	hexachlorobutadiene	21.67	225	802155	107.45	ppb		95
74)	naphthalene	21.77	128	5323320	121.83	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1717318	114.37	ppb	#	75
76)	1,2,3-trichlorobenzene	22.21	180	1754618	106.57	ppb		93
77)	MTBE	5.07	73	4530435	105.62	ppb		97
78)	DIPE	5.88	45	7155383	100.02	ppb	#	90

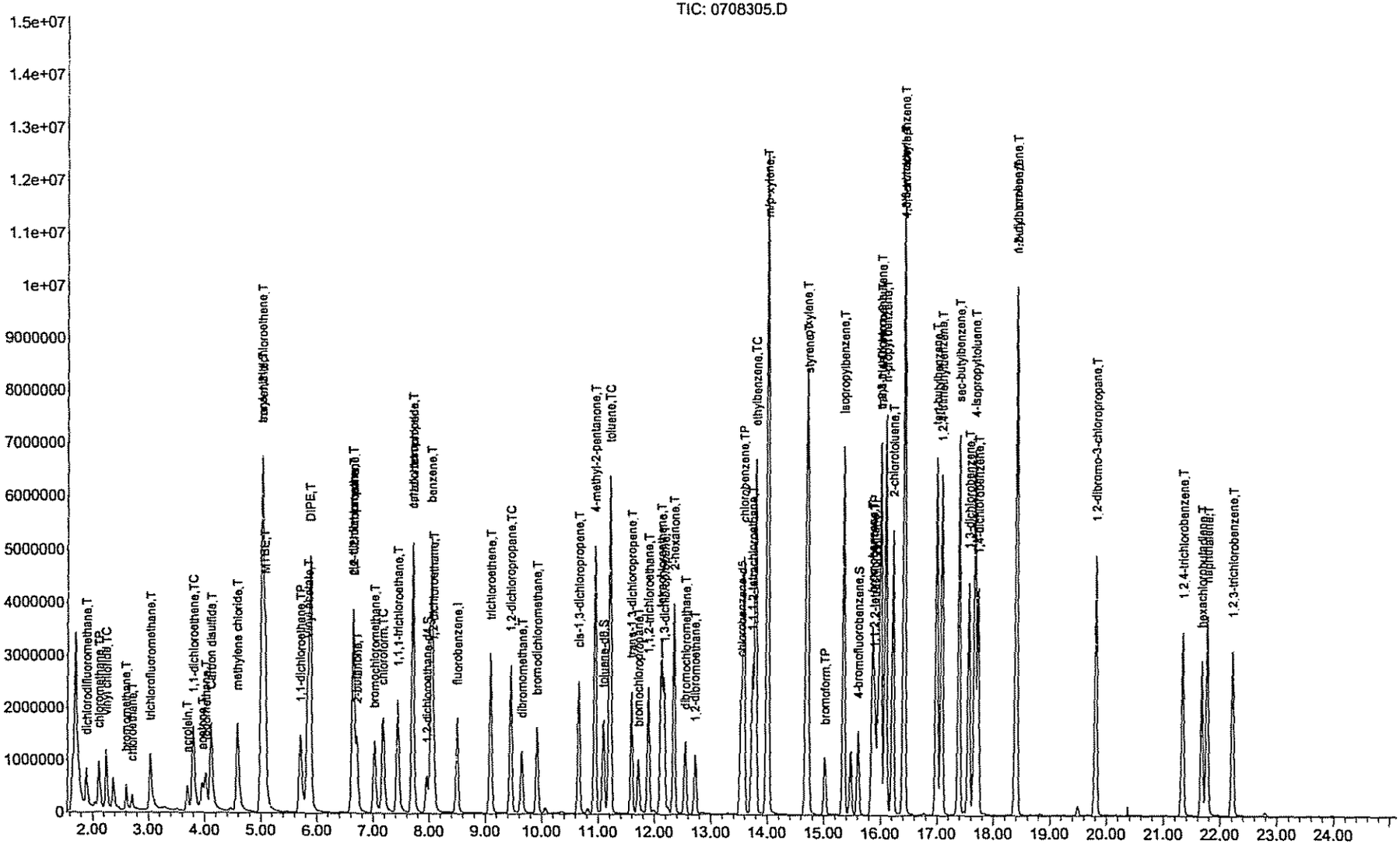
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708305.D Vial: 5
Acq On : 8 Jul 2005 9:51 am Operator: RNP
Sample : LCS3070805b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 10:16 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708305.D



0708305.D 8260SSC.M Tue Sep 06 15:41:26 2005

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708307.D Vial: 7
Acq On : 8 Jul 2005 10:54 am Operator: RNP
Sample : VBLK3070805b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 11:19 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.51	96	2552271	50.00	ppb	0.00
39) bromochloropropane	11.72	79	335753	50.00	ppb	-0.01
53) chlorobenzene-d5	13.54	117	1940756	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.97	65	808917	50.57	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.14%	
33) toluene-d8	11.09	98	1781137	48.42	ppb	-0.01
Spiked Amount 50.000			Recovery	=	96.84%	
49) 4-bromofluorobenzene	15.61	95	969447	49.00	ppb	-0.01
Spiked Amount 50.000			Recovery	=	98.00%	

Target Compounds							Qvalue
5) bromomethane	2.63	94	3218	0.70	ppb	#	2
8) acrolein	3.70	56	1418	Below Cal			84
10) acetone	3.95	43	57438	Below Cal			97
11) methylene chloride	4.61	84	1413	0.09	ppb	#	54
13) acrylonitrile	5.02	53	7408	0.12	ppb	#	78
17) 2-butanone	6.74	43	2354	Below Cal		#	100
24) benzene	8.05	78	17468	0.26	ppb	#	84
32) 4-methyl-2-pentanone	10.93	43	2068	0.04	ppb	#	38
34) toluene	11.42	92	1883	0.05	ppb		88
36) trans-1,3-dichloropropene	11.71	75	13015	0.69	ppb	#	50
38) Carbon disulfide	4.16	76	772	0.02	ppb	#	76
42) 1,3-dichloropropane	12.17	76	693	0.03	ppb	#	34
43) 2-hexanone	12.34	43	4062	0.11	ppb	#	26
46) chlorobenzene	13.58	112	592	0.01	ppb	#	1
52) 1,2,3-trichloropropane	16.13	75	1920	Below Cal		#	1
54) ethylbenzene	13.80	91	3247	0.04	ppb	#	45
55) m/p-xylene	14.01	106	902	0.03	ppb	#	1
56) styrene	14.72	104	1390	0.03	ppb		100
58) isopropylbenzene	15.60	105	767	0.01	ppb	#	50
59) n-propyl benzene	16.10	91	4378	0.05	ppb	#	53
62) 1,3,5-trimethylbenzene	16.42	105	664	0.01	ppb	#	28
64) 1,2,4-trimethylbenzene	17.10	105	5593	0.10	ppb	#	36
65) sec-butylbenzene	17.39	105	726	0.01	ppb	#	62
66) 1,3-dichlorobenzene	17.58	146	2985	0.11	ppb	#	62
67) 4-isopropyltoluene	17.67	119	3633	0.06	ppb	#	48
68) 1,4-dichlorobenzene	17.74	146	5054	0.18	ppb	#	21
69) 1,2-dichlorobenzene	18.40	146	1576	0.06	ppb	#	26
70) n-butylbenzene	18.42	91	4309	0.06	ppb	#	57
71) 1,2-dibromo-3-chloropropan	19.81	75	907	0.05	ppb	#	24
72) 1,2,4-trichlorobenzene	21.34	180	7392	0.43	ppb		93
74) naphthalene	21.78	128	31677	Below Cal			100
76) 1,2,3-trichlorobenzene	22.23	180	6038	0.38	ppb		100
78) DIPE	5.89	45	629	0.01	ppb	#	34

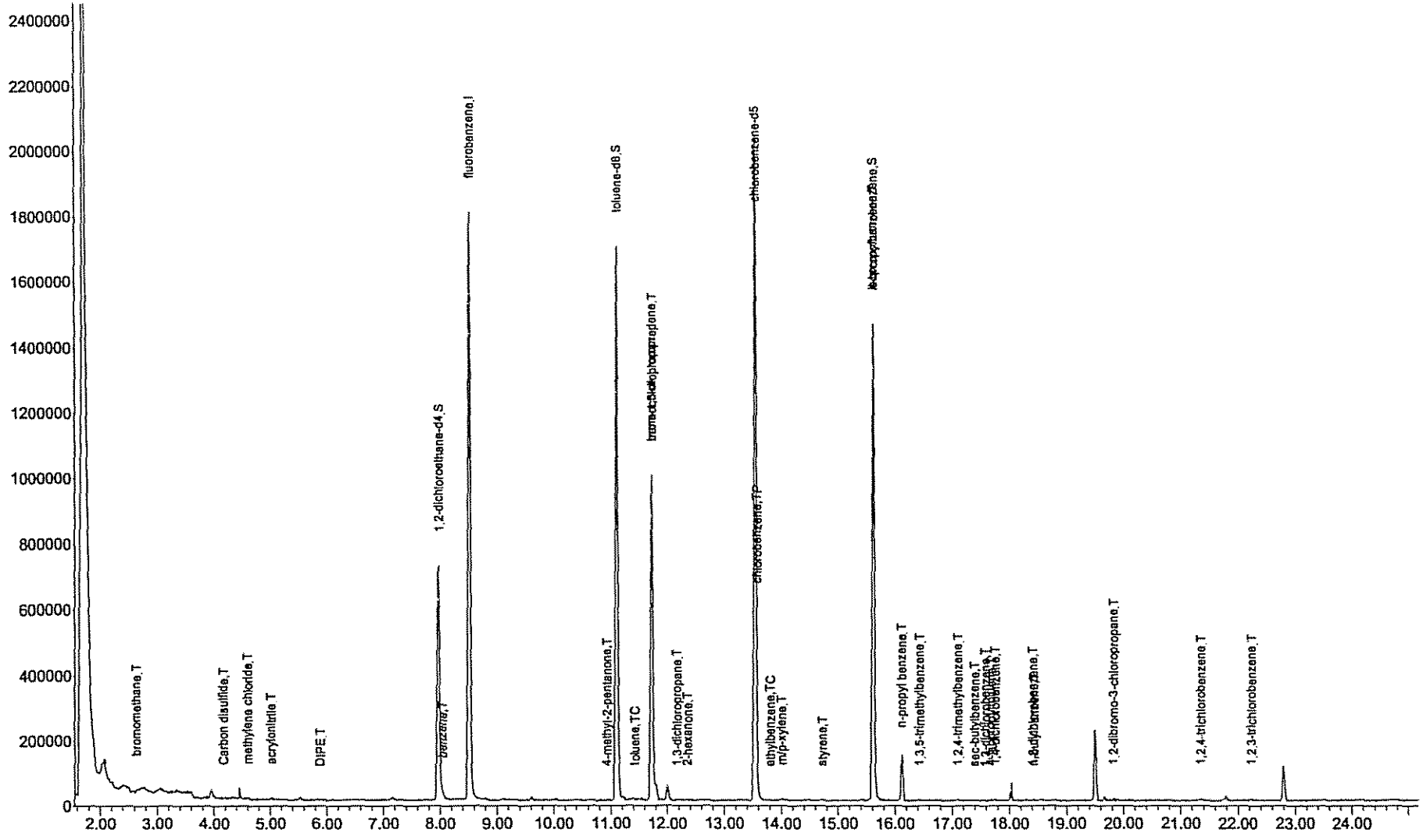
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708307.D Vial: 7
Acq On : 8 Jul 2005 10:54 am Operator: RNP
Sample : VBLK3070805b Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 11:19 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708307.D



N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708315.D Vial: 15
Acq On : 8 Jul 2005 3:01 pm Operator: RNP
Sample : G161-2047-15c Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 15:30 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.50	96	2433775	50.00 ppb	0.00
39) bromochloropropane	11.73	79	323156	50.00 ppb	0.00
53) chlorobenzene-d5	13.54	117	1847356	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	7.96	65	804445	52.74 ppb	0.00
Spiked Amount 50.000			Recovery	= 105.48%	
33) toluene-d8	11.10	98	1786200	50.92 ppb	0.00
Spiked Amount 50.000			Recovery	= 101.84%	
49) 4-bromofluorobenzene	15.61	95	924686	48.56 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.12%	
Target Compounds					Qvalue
5) bromomethane	2.66	94	3463	0.79 ppb #	2
7) trichlorofluoromethane	3.11	101	6742	0.40 ppb	87
8) acrolein	3.75	56	760	Below Cal #	1
10) acetone	3.95	43	96910	0.97 ppb	96
11) methylene chloride	4.60	84	31684	2.19 ppb	84
13) acrylonitrile	5.03	53	1567	0.03 ppb #	13
17) 2-butanone	6.72	43	24899	Below Cal #	100
24) benzene	8.05	78	33322	0.52 ppb	94
32) 4-methyl-2-pentanone	10.95	43	911	0.02 ppb #	38
34) toluene	11.20	92	196516	5.07 ppb	90
36) trans-1,3-dichloropropene	11.73	75	14106	0.79 ppb #	50
38) Carbon disulfide	4.17	76	4373	0.10 ppb #	76
40) 1,1,2-trichloroethane	11.62	83	5856	0.58 ppb #	1
43) 2-hexanone	12.35	43	697	0.02 ppb #	26
51) 1,1,2,2-tetrachloroethane	15.90	83	21191	1.30 ppb #	35
54) ethylbenzene	13.80	91	59904	0.81 ppb	96
55) m/p-xylene	14.00	106	80007	2.93 ppb	95
56) styrene	14.72	104	603	0.02 ppb	100
57) o-xylene	14.69	106	40189	1.59 ppb	92
58) isopropylbenzene	15.35	105	32570	0.47 ppb	98
59) n-propyl benzene	16.08	91	46948	0.54 ppb	92
62) 1,3,5-trimethylbenzene	16.42	105	28466	0.50 ppb	100
63) tert-butylbenzene	16.99	119	19746	0.42 ppb #	82
64) 1,2,4-trimethylbenzene	17.09	105	93674	1.67 ppb	87
65) sec-butylbenzene	17.39	105	78525	1.01 ppb #	92
67) 4-isopropyltoluene	18.06	119	27064	0.44 ppb	97
70) n-butylbenzene	18.40	91	65632	1.03 ppb #	84
71) 1,2-dibromo-3-chloropropan	19.49	75	1380	0.08 ppb #	24
74) naphthalene	21.77	128	379920	5.37 ppb	100
77) MTBE	5.07	73	4309	0.11 ppb #	26

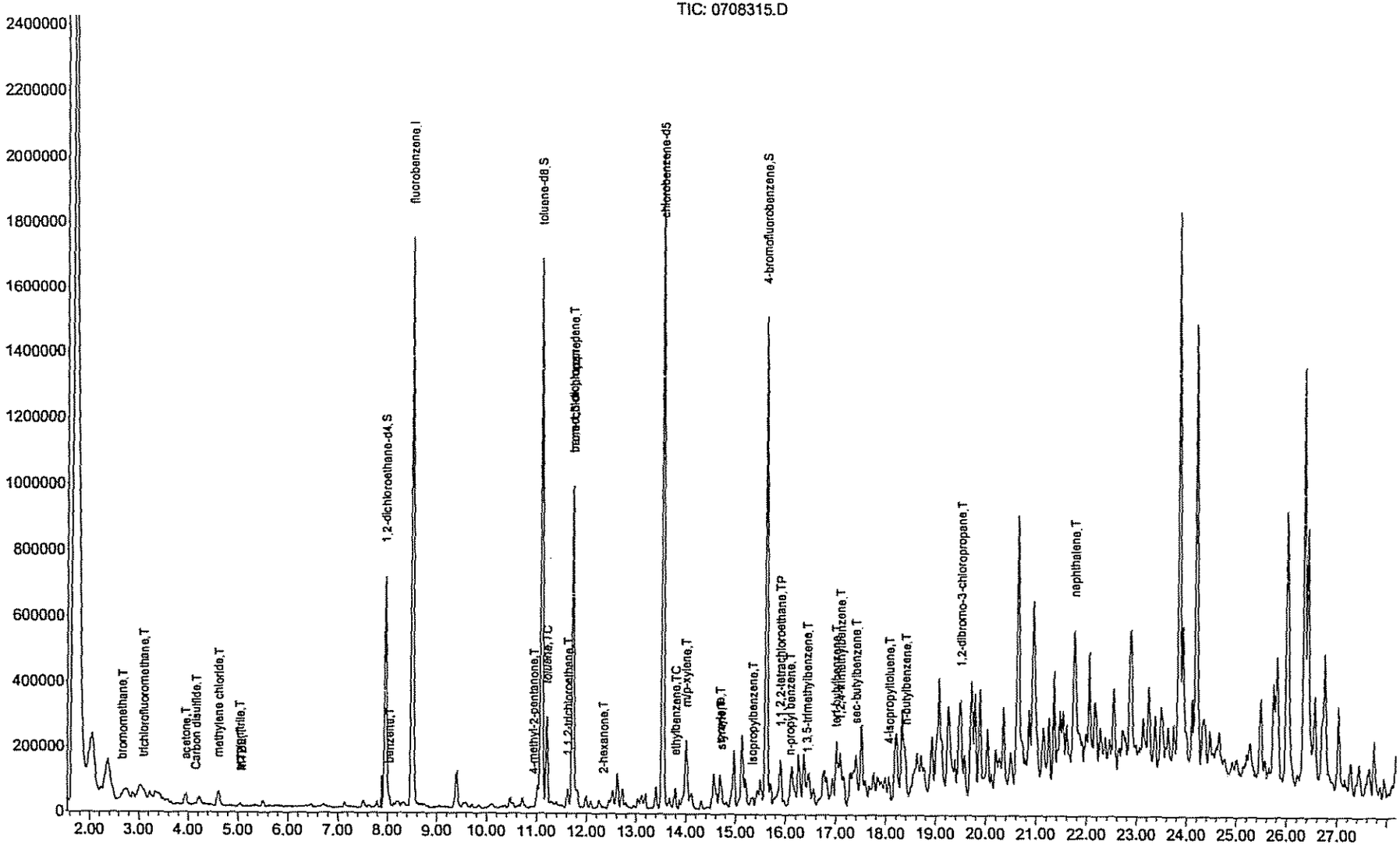
(#) = qualifier out of range (m) = manual integration
0708315.D 8260SSC.M Tue Sep 06 15:41:53 2005
N.C. CERTIFICATION #481

Quantitation Report

Data File : C:\HPCHEM\1\DATA\3070805\0708315.D Vial: 15
Acq On : 8 Jul 2005 3:01 pm Operator: RNP
Sample : G161-2047-15c Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 15:30 2005 Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708315.D



0708315.D 8260SSC.M Tue Sep 06 15:41:54 2005

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N C CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708322.D Vial: 22
Acq On : 8 Jul 2005 6:42 pm Operator: RNP
Sample : G161-2047-15b ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.49	96	2376262	50.00	ppb	-0.02
39) bromochloropropane	11.72	79	311385	50.00	ppb	-0.02
53) chlorobenzene-d5	13.54	117	1848104	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.95	65	760612	51.08	ppb	0.00
Spiked Amount 50.000			Recovery = 102.16%			
33) toluene-d8	11.10	98	1756371	51.28	ppb	-0.01
Spiked Amount 50.000			Recovery = 102.56%			
49) 4-bromofluorobenzene	15.61	95	938433	51.15	ppb	-0.01
Spiked Amount 50.000			Recovery = 102.30%			

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.89	85	1149430	109.45	ppb	#	87
3) chloromethane	2.11	50	1715365	111.59	ppb	#	85
4) vinyl chloride	2.24	62	1856216	117.15	ppb	#	89
5) bromomethane	2.60	94	409807	95.31	ppb		98
6) chloroethane	2.71	64	309587	39.22	ppb	#	85
7) trichlorofluoromethane	3.00	101	1754793m	106.26	ppb		
8) acrolein	3.69	56	746182	82.28	ppb	#	57
9) 1,1-dichloroethene	3.77	96	1205699	105.14	ppb		88
10) acetone	3.98	43	1252833	173.72	ppb		95
11) methylene chloride	4.57	84	1582658	112.03	ppb		91
12) trans-1,2-dichloroethene	5.01	96	1513307	101.56	ppb		96
13) acrylonitrile	5.02	53	8447348	145.94	ppb		91
14) 1,1-dichloroethane	5.70	63	3008249	111.40	ppb		93
15) 2,2-dichloropropane	6.63	77	2186084	101.49	ppb		94
16) cis-1,2-dichloroethene	6.64	96	1615045	107.49	ppb		89
17) 2-butanone	6.72	43	2842139	163.81	ppb	#	100
18) bromochloromethane	7.02	128	657219	121.84	ppb		84
19) chloroform	7.17	83	2673199	113.14	ppb		92
20) 1,1,1-trichloroethane	7.44	97	2289778	108.27	ppb		91
21) carbon tetrachloride	7.69	117	1966970	106.27	ppb		99
22) 1,1-dichloropropene	7.70	75	2104218	99.90	ppb	#	95
24) benzene	8.04	78	6467118	103.13	ppb		100
25) 1,2-dichloroethane	8.08	62	2118930	121.53	ppb		98
26) trichloroethene	9.09	95	1501113	97.57	ppb		86
27) 1,2-dichloropropane	9.45	63	1724303	111.79	ppb	#	100
28) dibromomethane	9.64	93	895943	125.12	ppb	#	98
29) bromodichloromethane	9.91	83	1898317	116.55	ppb	#	83
31) cis-1,3-dichloropropene	10.65	75	2243174	109.95	ppb		95
32) 4-methyl-2-pentanone	10.95	43	6119802	133.04	ppb	#	95
34) toluene	11.20	92	3808052	100.70	ppb		100
35) Iodomethane	4.00	142	1127877	113.69	ppb		88
36) trans-1,3-dichloropropene	11.60	75	1995845	114.12	ppb		100
37) Vinyl acetate	5.82	86	399895	96.23	ppb	#	1
38) Carbon disulfide	4.10	76	4233960	99.28	ppb	#	96
40) 1,1,2-trichloroethane	11.89	83	1152379	118.83	ppb	#	83
41) tetrachloroethene	12.12	166	1203152	85.49	ppb		90
42) 1,3-dichloropropane	12.17	76	2416860	116.49	ppb	#	84
43) 2-hexanone	12.36	43	4448287	129.15	ppb	#	94
44) dibromochloromethane	12.55	129	1219759	113.90	ppb		88
45) 1,2-dibromoethane	12.73	107	1377499	118.60	ppb	#	77
46) chlorobenzene	13.59	112	3519970	86.39	ppb		100
47) 1,1,1,2-tetrachloroethane	13.74	131	1065638	99.23	ppb		97
48) bromoform	15.03	173	884058	133.85	ppb	#	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708322.D Vial: 22
Acq On : 8 Jul 2005 6:42 pm Operator: RNP
Sample : G161-2047-15b ms Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50)	bromobenzene	15.86	156	1167035	86.33 ppb		94
51)	1,1,2,2-tetrachloroethane	15.91	83	2026395	129.19 ppb	#	63
52)	1,2,3-trichloropropane	16.00	75	4507115	131.94 ppb	#	11
54)	ethylbenzene	13.80	91	6392469	86.17 ppb		99
55)	m/p-xylene	14.00	106	4544595	166.24 ppb		96
56)	styrene	14.72	104	3244458	84.79 ppb		100
57)	o-xylene	14.69	106	2220099	87.98 ppb		99
58)	isopropylbenzene	15.35	105	5674383	81.42 ppb		99
59)	n-propyl benzene	16.09	91	6640183	76.27 ppb		96
60)	2-chlorotoluene	16.22	126	1075761	78.10 ppb		99
61)	4-chlorotoluene	16.42	126	1042320	72.96 ppb		94
62)	1,3,5-trimethylbenzene	16.42	105	4348862	77.06 ppb		96
63)	tert-butylbenzene	16.99	119	3646784	77.94 ppb		97
64)	1,2,4-trimethylbenzene	17.09	105	4215472	75.27 ppb		94
65)	sec-butylbenzene	17.39	105	5714512	73.27 ppb		100
66)	1,3-dichlorobenzene	17.56	146	1928192	73.45 ppb		95
67)	4-isopropyltoluene	17.67	119	4160035	68.36 ppb		93
68)	1,4-dichlorobenzene	17.73	146	1910673	71.97 ppb		96
69)	1,2-dichlorobenzene	18.39	146	1871074	80.27 ppb		90
70)	n-butylbenzene	18.41	91	3878945	60.83 ppb		98
71)	1,2-dibromo-3-chloropropan	19.81	75	2439688	135.41 ppb	#	56
72)	1,2,4-trichlorobenzene	21.34	180	1023422	62.04 ppb		86
73)	hexachlorobutadiene	21.68	225	326865	47.73 ppb		94
74)	naphthalene	21.77	128	4248404	105.40 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1579130	114.63 ppb	#	73
76)	1,2,3-trichlorobenzene	22.22	180	1029662	68.16 ppb		93
77)	MTBE	5.07	73	5010081	127.32 ppb		98
78)	DIPE	5.88	45	7128182	108.61 ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

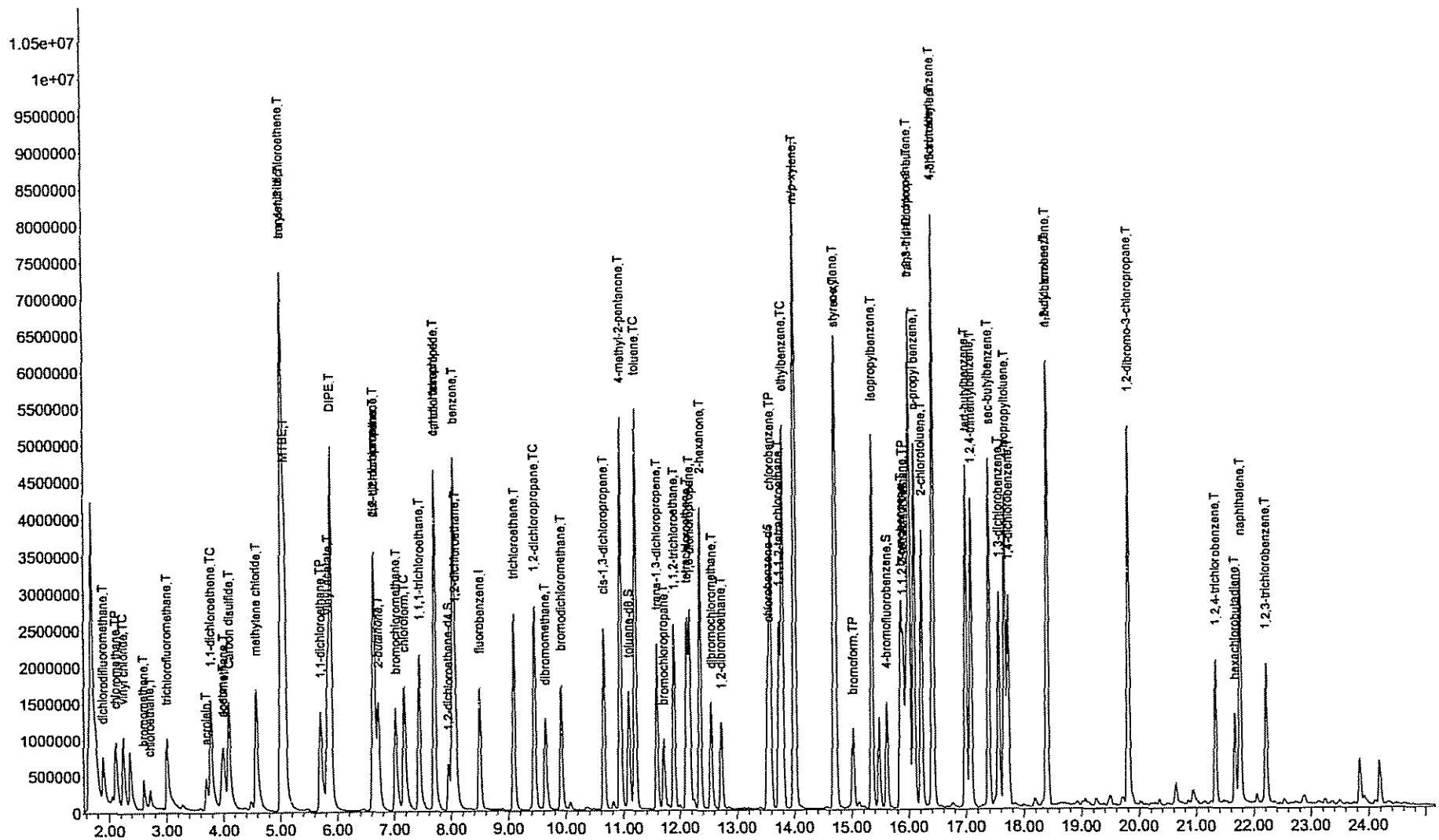
Data File : C:\HPCHEM\1\DATA\3070805\0708322.D
Acq On : 8 Jul 2005 6:42 pm
Sample : G161-2047-15b ms
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2005

Vial: 22
Operator: RNP
Inst : MSD3
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708322.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708323.D Vial: 23
Acq On : 8 Jul 2005 7:13 pm Operator: RNP
Sample : G161-2047-15a msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.50	96	2500022	50.00	ppb	-0.01
39) bromochloropropane	11.72	79	329156	50.00	ppb	-0.01
53) chlorobenzene-d5	13.54	117	1893613	50.00	ppb	-0.01
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	7.96	65	768628	49.06	ppb	0.00
Spiked Amount 50.000			Recovery =	98.12%		
33) toluene-d8	11.09	98	1851923	51.39	ppb	-0.01
Spiked Amount 50.000			Recovery =	102.78%		
49) 4-bromofluorobenzene	15.62	95	1062560	54.79	ppb	0.00
Spiked Amount 50.000			Recovery =	109.58%		

Target Compounds							Qvalue
2) dichlorodifluoromethane	1.89	85	1169654	105.86	ppb	#	83
3) chloromethane	2.11	50	1712191	105.87	ppb	#	85
4) vinyl chloride	2.24	62	1891976	113.50	ppb	#	86
5) bromomethane	2.60	94	459181	101.50	ppb		98
6) chloroethane	2.71	64	324244	39.04	ppb	#	83
7) trichlorofluoromethane	3.01	101	1847502m	106.34	ppb		
8) acrolein	3.70	56	805609	85.69	ppb	#	60
9) 1,1-dichloroethene	3.78	96	1248912	103.52	ppb		87
10) acetone	3.97	43	1315281	173.32	ppb		94
11) methylene chloride	4.58	84	1670281	112.38	ppb		91
12) trans-1,2-dichloroethene	5.02	96	1611503	102.80	ppb		95
13) acrylonitrile	5.02	53	8615760	141.48	ppb		92
14) 1,1-dichloroethane	5.70	63	3112456	109.55	ppb		93
15) 2,2-dichloropropane	6.63	77	2269997	100.17	ppb		94
16) cis-1,2-dichloroethene	6.65	96	1694508	107.19	ppb		87
17) 2-butanone	6.71	43	2920574	159.86	ppb	#	100
18) bromochloromethane	7.02	128	677267	119.34	ppb		86
19) chloroform	7.18	83	2760698	111.06	ppb		90
20) 1,1,1-trichloroethane	7.43	97	2311337	103.88	ppb		89
21) carbon tetrachloride	7.70	117	1985060	101.94	ppb		98
22) 1,1-dichloropropene	7.71	75	2205198	99.51	ppb	#	94
24) benzene	8.04	78	6845613	103.76	ppb		100
25) 1,2-dichloroethane	8.08	62	2163739	117.96	ppb		99
26) trichloroethene	9.09	95	1585341	97.95	ppb	#	86
27) 1,2-dichloropropane	9.46	63	1784454	109.96	ppb	#	100
28) dibromomethane	9.64	93	914960	121.45	ppb	#	100
29) bromodichloromethane	9.92	83	1937838	113.08	ppb	#	82
31) cis-1,3-dichloropropene	10.66	75	2347998	109.39	ppb		97
32) 4-methyl-2-pentanone	10.94	43	6328171	130.76	ppb	#	96
34) toluene	11.21	92	4480984	112.63	ppb		96
35) Iodomethane	4.01	142	1268969	121.57	ppb		89
36) trans-1,3-dichloropropene	11.59	75	2060777	112.00	ppb		99
37) Vinyl acetate	5.83	86	446932	102.23	ppb	#	1
38) Carbon disulfide	4.10	76	4545796	101.31	ppb	#	95
40) 1,1,2-trichloroethane	11.89	83	1230463	120.03	ppb	#	82
41) tetrachloroethene	12.13	166	1231489	82.78	ppb		91
42) 1,3-dichloropropane	12.18	76	2484766	113.30	ppb	#	82
43) 2-hexanone	12.35	43	4479504	123.04	ppb	#	94
44) dibromochloromethane	12.55	129	1243254	109.83	ppb		90
45) 1,2-dibromoethane	12.73	107	1409587	114.81	ppb	#	79
46) chlorobenzene	13.59	112	3790707	88.02	ppb		100
47) 1,1,1,2-tetrachloroethane	13.73	131	1108516	97.65	ppb		95
48) bromoform	15.02	173	869782	124.28	ppb	#	100

(#) = qualifier out of range (m) = manual integration
0708323.D 8260SSC.M Tue Sep 06 15:42:08 2005

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\3070805\0708323.D Vial: 23
Acq On : 8 Jul 2005 7:13 pm Operator: RNP
Sample : G161-2047-15a msd Inst : MSD3
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 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 : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	15.86	156	1222552	85.56	ppb		93
51)	1,1,2,2-tetrachloroethane	15.90	83	2222260	134.03	ppb	#	73
52)	1,2,3-trichloropropane	16.00	75	4472624	123.69	ppb	#	11
54)	ethylbenzene	13.79	91	6915320	90.97	ppb		99
55)	m/p-xylene	14.01	106	4997545	178.41	ppb		96
56)	styrene	14.72	104	3382571	86.28	ppb		100
57)	o-xylene	14.69	106	2379565	92.04	ppb		97
58)	isopropylbenzene	15.36	105	5736736	80.33	ppb		99
59)	n-propyl benzene	16.09	91	6663176	74.69	ppb		96
60)	2-chlorotoluene	16.23	126	1074859	76.16	ppb		96
61)	4-chlorotoluene	16.42	126	1086069	74.19	ppb		92
62)	1,3,5-trimethylbenzene	16.41	105	4106083	71.01	ppb		96
63)	tert-butylbenzene	17.00	119	3262787	68.06	ppb		96
64)	1,2,4-trimethylbenzene	17.09	105	4208352	73.33	ppb		94
65)	sec-butylbenzene	17.39	105	5443214	68.12	ppb		99
66)	1,3-dichlorobenzene	17.57	146	1928925	71.71	ppb		94
67)	4-isopropyltoluene	17.67	119	3598336	57.71	ppb		94
68)	1,4-dichlorobenzene	17.73	146	1917461	70.49	ppb		93
69)	1,2-dichlorobenzene	18.40	146	1843396	77.18	ppb		91
70)	n-butylbenzene	18.41	91	3852475	58.96	ppb		99
71)	1,2-dibromo-3-chloropropan	19.82	75	2260600	122.46	ppb	#	48
72)	1,2,4-trichlorobenzene	21.33	180	900942	53.30	ppb		83
73)	hexachlorobutadiene	21.68	225	289148	41.20	ppb		99
74)	naphthalene	21.78	128	6408452	157.28	ppb		100
75)	trans-1,4-Dichloro-2-buten	16.00	89	1577193	111.74	ppb	#	77
76)	1,2,3-trichlorobenzene	22.22	180	896136	57.90	ppb		90
77)	MTBE	5.08	73	5133973	127.33	ppb		99
78)	DIPE	5.88	45	7319409	108.84	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

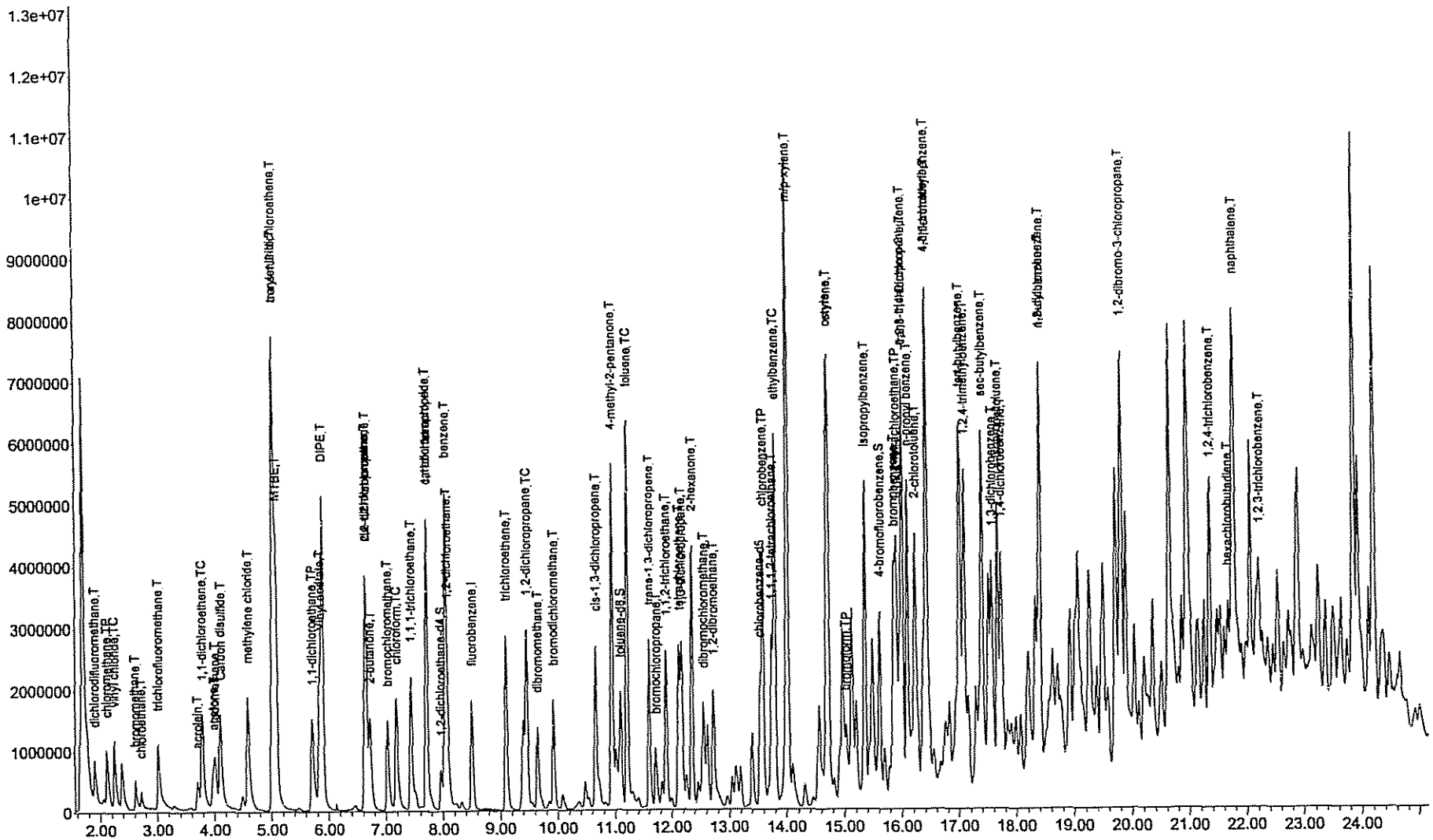
Data File : C:\HPCHEM\1\DATA\3070805\0708323.D
Acq On : 8 Jul 2005 7:13 pm
Sample : G161-2047-15a msd
Misc :
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2005

Vial: 23
Operator: RNP
Inst : MSD3
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : C:\HPCHEM\1\DATA\3070805\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Thu Jul 07 04:51:32 2005
Response via : Initial Calibration

TIC: 0708323.D



0708323.D 8260SSC.M Tue Sep 06 15:42:10 2005

Page 3

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

5035 Prep, Standard, Run Logs

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C65
8260WGC-7-062805-C55 8260WGQ-7062805-C56 8260SGC-7-062805-C59 8260SGQ-7-062805-C60

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-7/14/05 8260w/6210d 8/30/05 gasadds 91/05

Batch: 3070605

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0706301.D	50 ng bfb	7/6/05 9:20				RNP	✓
0706302.D	VSTD005	7/6/05 9:51				RNP	
0706303.D	VSTD005	7/6/05 10:23				RNP	✓
0706304.D	VSTD010	7/6/05 10:54				RNP	
0706305.D	VSTD020	7/6/05 11:25				RNP	✓
0706306.D	VSTD050	7/6/05 11:56				RNP	✓
0706307.D	VSTD100	7/6/05 12:28				RNP	✓
0706308.D	VSTD200	7/6/05 12:59				RNP	✓
0706309.D	B	7/6/05 13:30				RNP	
0706310.D	qcchk100	7/6/05 14:02				RNP	
0706311.D	LCS3070605a	7/6/05 14:34				RNP	
0706312.D	LCS3070605a	7/6/05 15:05				RNP	
0706314.D	VSTD005	7/6/05 15:52				RNP	
0706315.D	VSTD010	7/6/05 16:23				RNP	
0706316.D	VSTD020	7/6/05 16:54				RNP	
0706317.D	VSTD050	7/6/05 17:26				RNP	
0706318.D	VSTD100	7/6/05 17:58				RNP	
0706319.D	VSTD200	7/6/05 18:29				RNP	
0706320.D	VSTD025	7/6/05 19:00				RNP	

Analyst: [illegible]

See Top for Standard Lot Numbers

Page Number: 32S6K

VO23.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66
8260WGC-7-062805-C55 8260WGQ-7-062805-C56 8260SGC-7-062805-C59 8260SGQ-7-0628005-C60

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-6/5/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0708301.D	50 ng bfb	7/8/05 7:46				RNP	✓
0708302.D	QCCHK025	7/8/05 8:18		14	14	RNP	
0708303.D	QCCHK100	7/8/05 8:49				RNP	✓
0708304.D	LCS3070805a	7/8/05 9:20				RNP	
0708305.D	LCS3070805b	7/8/05 9:51				RNP	✓
0708306.D	VBLK3070805a	7/8/05 10:22				RNP	—
0708307.D	VBLK3070805b	7/8/05 10:54				RNP	✓
0708308.D	G122-2613-1a	7/8/05 11:25				RNP	
0708309.D	G122-2613-2c	7/8/05 11:55				RNP	
0708310.D	G161-2047-2a	7/8/05 12:27				RNP	
0708311.D	G161-2047-9c	7/8/05 12:58				RNP	
0708312.D	G161-2047-10c	7/8/05 13:29				RNP	
0708313.D	G161-2047-11c	7/8/05 14:00				RNP	
0708314.D	G161-2047-12b	7/8/05 14:31				RNP	
0708315.D	G161-2047-15c	7/8/05 15:01				RNP	
0708316.D	G161-2047-16c	7/8/05 15:36				RNP	
0708317.D	G122-2613-2b	7/8/05 16:07				RNP	
0708318.D	G161-2047-12c dup	7/8/05 16:39				RNP	
0708319.D	G161-2054-1a	7/8/05 17:10				RNP	

Page Number: 3260

Analyst: RP

See Top for Standard Lot Numbers

VO23.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C CERTIFICATION #481

8260WBC-7-063005-C61 8260WBQ-7-063005-C62 8260SBC-7-063005-C65 8260SBQ-7-063005-C66
8260WGC-7-062805-C55 8260WGQ-7-062805-C56 8260SGC-7-062805-C59 8260SGQ-7-0628005-C60

Paradigm Analytical

MSD3 Runlog Sheet

Method: 8260 / 6210D 5030 / 5035

Matrix: Water Soil

Initial Cal. Curve: 8260/5035-6/5/05 8260w/6210d 6/5/05 gasadds 5/17/05

Batch: 3070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
0708320.D	G161-2055-2a	7/8/05 17:40		✓	✓	RNP	
0708321.D	G106-523-3c	7/8/05 18:11				RNP	
0708322.D	G161-2047-15b ms	7/8/05 18:42				RNP	
0708323.D	G161-2047-15a msd	7/8/05 19:13				RNP	✓

Page Number: 3261

Analyst: [illegible]

See Top for Standard Lot Numbers

VO23.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007 **Mass Spec Soil** ***CURVE***

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 AD33291	2000	50	10	10
7A- 21	restek ketones lot AD34305	5000	50	10	10
7B- 111	8260rxtv-7- 060505	10000	50	10	50
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date:
Expiration date: 7/5/05

PAL lot number: 8260SBC-7-060505-C59

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 24	Restek gases AD33690	2000	50	10	10
7B- 109	8260ac/ac/2ceve-7- 060505	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date:
Expiration date: 6/12/05

PAL lot number: 8260SGC-7-060505-C59

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol. (ml)	Final Conc (ppm)
7A- 24	Restek gases AD33690	2000	50	10	10
7B- 113	8260ac/ac/2ceve-7- ~~060505~~ 061205	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017 STF 6/12/05				

Ampule opened: 6/12/05
Prep date:
Expiration date: 6/19/05

PAL lot number: 8260SGC-7-061205-C59

Soil GAS Mix:

Refering Page	Description	Initial conc (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc (ppm)
7A 27	Restek gases AD33238	2000	50	10	10
7B- 117	8260ac/ac/2ceve-7- 062005	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/20/05
Prep date:
Expiration date: 6/27/05

PAL lot number: 8260SGC-7-062005-C59

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 27	Restek gases AD33238	2000	50	10	10
7B- 119	8260ac/ac/2ceve-7- 062805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/28/05
Prep date:
Expiration date: 7/5/05

PAL lot number: 8260SGC-7-062805-C59

See reverse for any comments

page: C59

PARADIGM ANALYTICAL LABORATORIES, INC.

DOC. CERTIFICATION #481

Volatiles Standard Notebook # 007

Mass Spec Soil **QC**

Soil BASE Mix:

Refenng Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 20	Restek 502.2 MEGA mix lot A0 332912	2000	50	10	10
7A- 22	restek ketones lot ~~A0343809~~, A0343[illegible]	5000	50	10	10
7B- 112	8260rxtv-7- 060505	10000	50	10	50
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date:
Expiration date: 7/5/05

PAL lot number: 8260SBQ-7-060505-C60

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A- 25	Restek gases A0 336088	2000	50	10	10
7B- 11D	8260ac/ac/2ceve-7- 060505	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/5/05
Prep date:
Expiration date: 6/12/05

PAL lot number: 8260SGQ-7-060505-C60

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol (ml)	Final Conc (ppm)
7A- 25	Restek gases A0336088	2000	50	10	10
7B- 114	8260ac/ac/2ceve-7- 061205	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/12/05
Prep date:
Expiration date: 6/19/05

PAL lot number: 8260SGQ-7-061205-C60

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- 118	8260ac/ac/2ceve-7- 062005	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/20/05
Prep date:
Expiration date: 6/27/05

PAL lot number: 8260SGQ-7-062005-C60

Soil GAS Mix:

Refenng Page	Description	Initial conc. (ppm)	Ammt used(ul)	Final Vol (ml)	Final Conc. (ppm)
7A- 29	Restek gases A0 362202	2000	50	10	10
7B- 120	8260ac/ac/2ceve-7- 062805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# CN017				

Ampule opened: 6/28/05
Prep date:
Expiration date: 7/5/05

PAL lot number: 8260SGQ-7-062805-C60

See reverse for any comments

page: C60

PARADIGM ANALYTICAL LABORATORIES, INC
N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007 | **Mass Spec Soil** | **CURVE**

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 A033591	2000	50	10	10
7A- 21	restek ketones lot A034309	5000	50	10	10
7B- 21	8260rxtv-7- 060305	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- 060305-C65

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: 7/18/05

PAL lot number: 8260SGC-7- 071105-C67

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: 7/25/05

PAL lot number: 8260SGC-7- 071805-C68

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-C69

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: C65

PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007 | Mass Spec Soil | QC

Soil BASE Mix:

Referring 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# [illegible]				

Ampule opened: 6/30/05
Prep date: +
Expiration date: 7/30/05

PAL lot number: 8260SBQ-7-063005-66

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# [illegible]				

Ampule opened: 7/11/05
Prep date: +
Expiration date: 7/18/05

PAL lot number: 8260SGQ-7-071105-66

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# [illegible]				

Ampule opened: 7/18/05
Prep date: +
Expiration date: 7/25/05

PAL lot number: 8260SGQ-7-071805-66

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# [illegible]				

Ampule opened: 7/25/05
Prep date: +
Expiration date: 8/1/05

PAL lot number: 8260SGQ-7- 072505-66

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: [illegible]

VO27.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8270-BN Sample Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711622.D Vial: 22
Acq On : 12 Jul 2005 2:23 am Operator: MRC
Sample : G161-2055-1G x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:38 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mmc 07-14-05

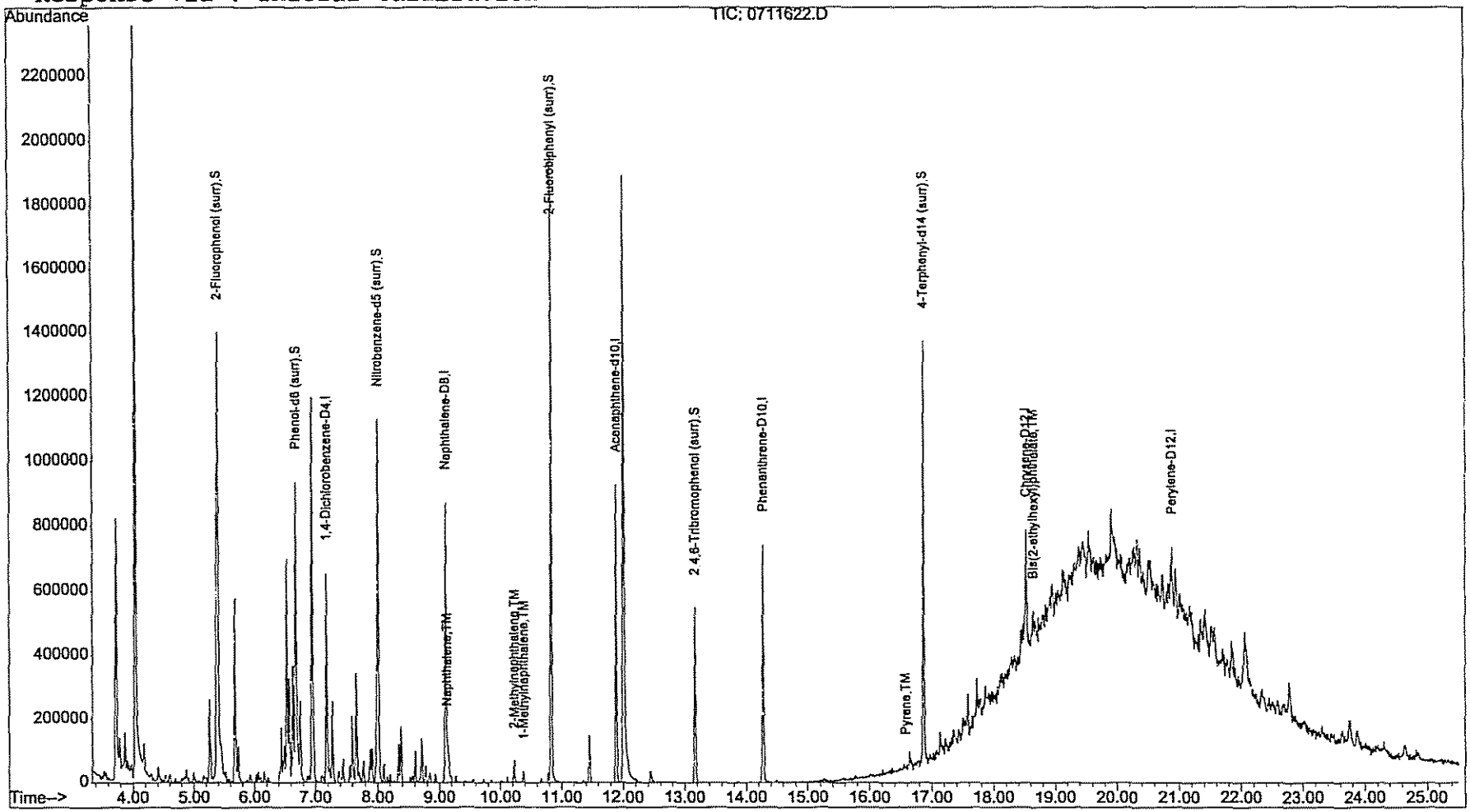
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	155013	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	601201	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	322461	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	453240	4.00	ug/mL	-0.05
85) Chrysene-D12	18.52	240	182019	4.00	ug/mL	-0.04
93) Perylene-D12	20.88	264	115438	4.00	ug/mL	-0.04
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.39	112	401788	10.20	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 102.00%			
17) Phenol-d6 (surr)	6.68	99	600038	9.76	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 97.60%			
32) Nitrobenzene-d5 (surr)	8.01	128	217642	10.21	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 102.10%			
53) 2-Fluorobiphenyl (surr)	10.83	172	927035	10.26	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 102.60%			
54) 2,4,6-Tribromophenol (surr	13.16	330	88886	9.41	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 94.10%			
92) 4-Terphenyl-d14 (surr)	16.87	244	569584	12.51	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 125.10%			
Target Compounds						Qvalue
27) Naphthalene	9.13	128	78158	0.60	ug/mL#	95
31) 2-Methylnaphthalene	10.23	142	40149	0.43	ug/mL	96
40) 1-Methylnaphthalene	10.38	142	17136	0.22	ug/mL	86
86) Pyrene	16.57	202	7542	0.11	ug/mL#	73
91) Bis(2-ethylhexyl)phthalate	18.63	149	9508	0.23	ug/mL#	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711622.D Vial: 22
Acq On : 12 Jul 2005 2:23 am Operator: MRC
Sample : G161-2055-1G x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:38 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711616.D Vial: 16
Acq On : 11 Jul 2005 10:55 pm Operator: MRC
Sample : G161-2055-2H x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:34 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mm 07-13-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.17	152	161867	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	635649	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	344112	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.26	188	519225	4.00	ug/mL	-0.05
85) Chrysene-D12	18.52	240	244193	4.00	ug/mL	-0.05
93) Perylene-D12	20.86	264	143665	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.39	112	439950	10.70	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 107.00%			
17) Phenol-d6 (surr)	6.67	99	693713	10.80	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 108.00%			
32) Nitrobenzene-d5 (surr)	8.01	128	232695	10.32	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 103.20%			
53) 2-Fluorobiphenyl (surr)	10.83	172	964886	10.01	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 100.10%			
54) 2,4,6-Tribromophenol (surr	13.16	330	97550	9.68	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 96.80%			
92) 4-Terphenyl-d14 (surr)	16.87	244	798702	13.08	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 130.80%			

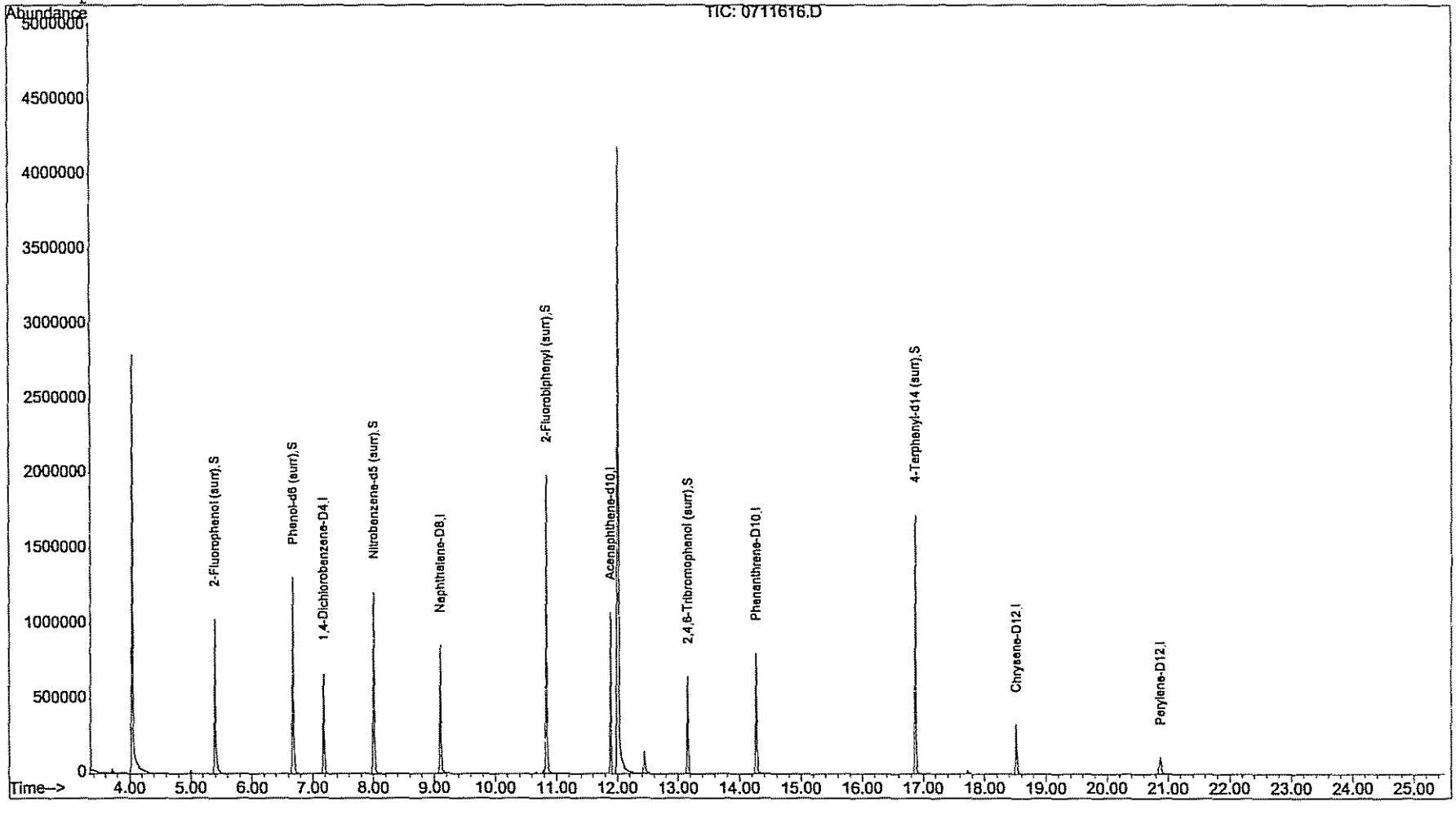
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711616.D Vial: 16
Acq On : 11 Jul 2005 10:55 pm Operator: MRC
Sample : G161-2055-2H x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:34 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0711616.D 8270.M Wed Jul 13 10:46:33 2005 ENV

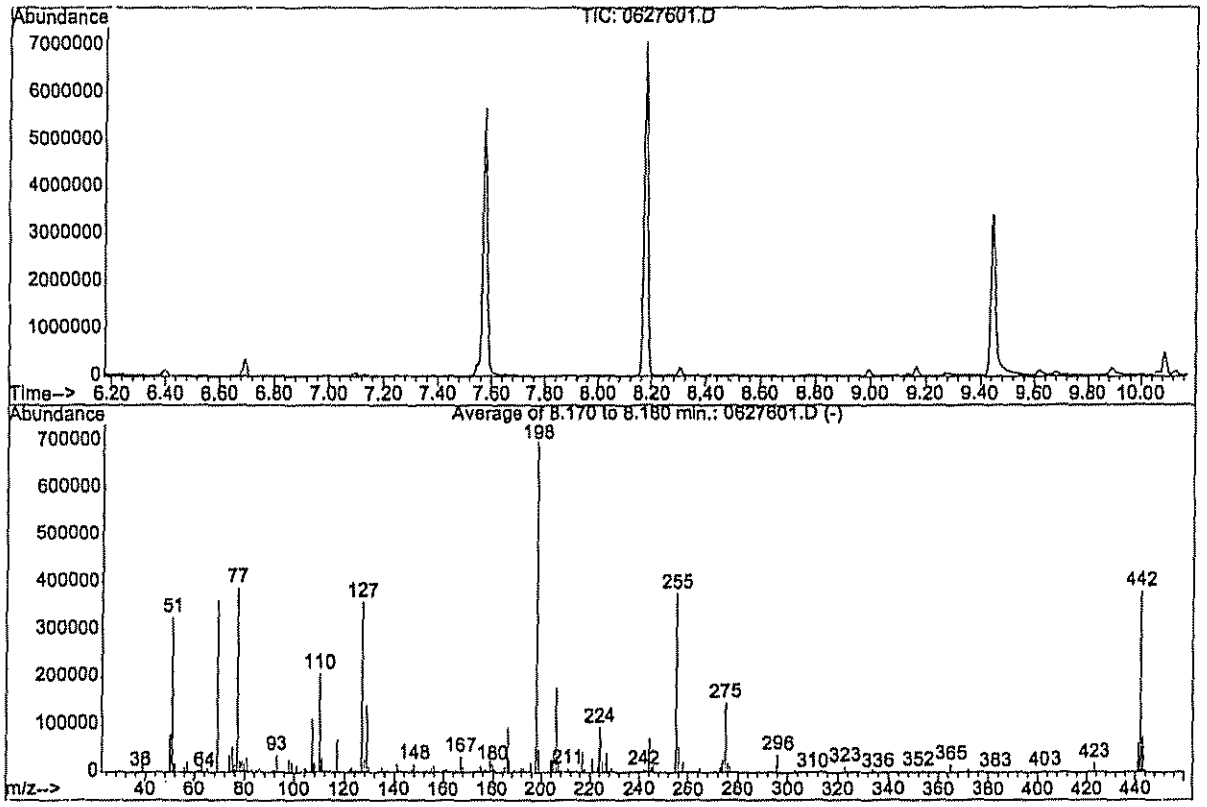
N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

8270-BN Tuning

DFTPP

Data File : C:\HPCHEM\1\DATA\6062705\0627601.D Vial: 1
Acq On : 27 Jun 2005 4:38 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6062705\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 433, 434, 435; Background Corrected with Scan 426

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	326323	PASS
68	69	0.00	2	0.5	1848	PASS
69	198	0.00	100	51.9	362949	PASS
70	69	0.00	2	0.5	1645	PASS
127	198	40	60	51.4	359488	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	699691	PASS
199	198	5	9	7.1	49856	PASS
275	198	10	30	20.8	145355	PASS
365	198	1	100	2.3	16086	PASS
441	443	0.01	100	83.6	62019	PASS
442	198	40	100	54.6	382059	PASS
443	442	17	23	19.4	74188	PASS

0627601.D DFTPP.M Mon Jun 27 16:53:48 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627601.D Vial: 1
Acq On : 27 Jun 2005 4:38 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 7:31 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\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	7.57	TIC	6457064	4.03	100
2) Benzidine	9.44	TIC	4617691	5.09	100
3) DDT	10.48	TIC	8846097	16.55	100
4) DDD	10.09	TIC	459974m	89.50	
5) DDE	9.68	TIC	56651m	2.93	

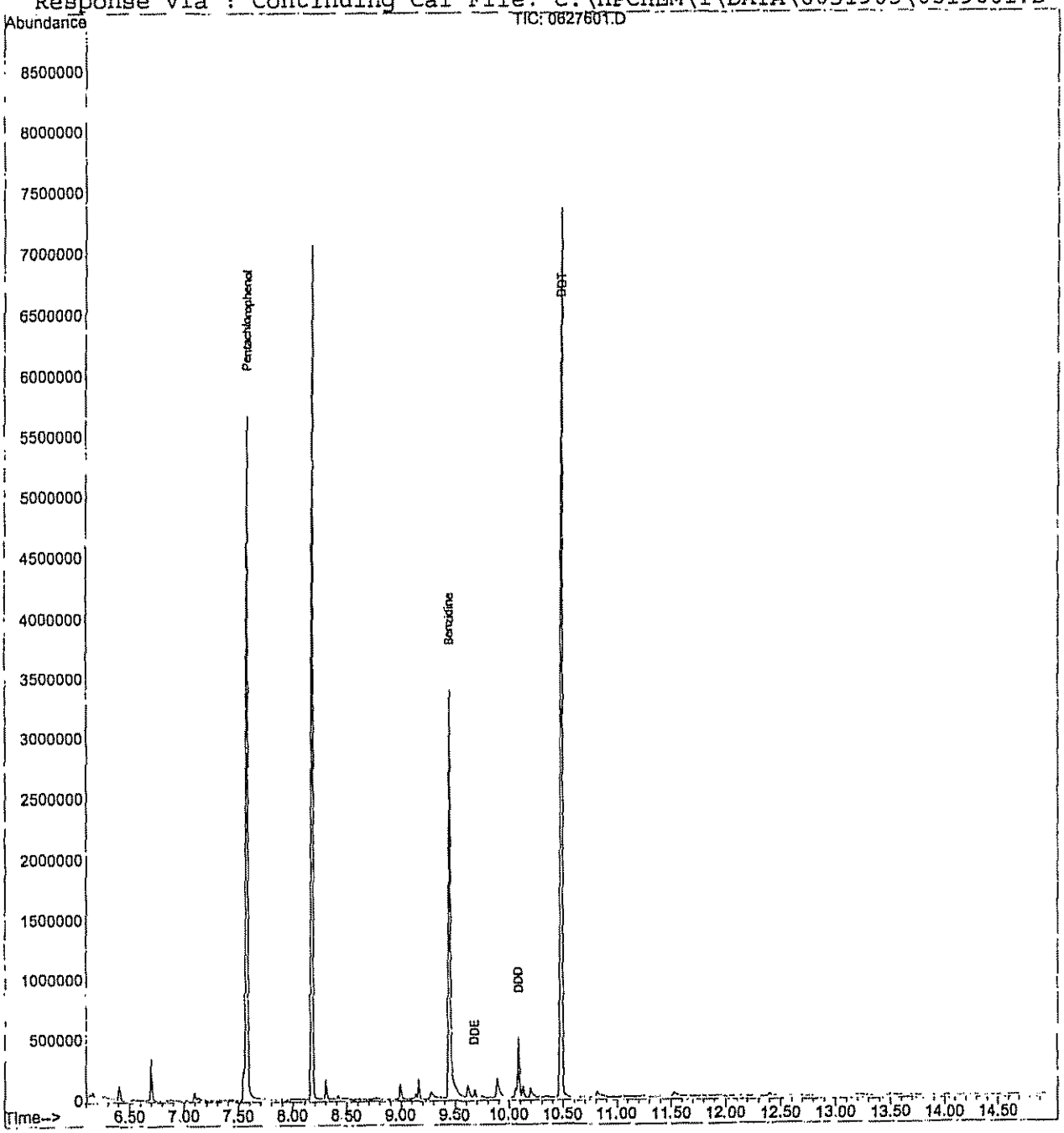
(#) = qualifier out of range (m) = manual integration
0627601.D DFTPP.M Tue Jun 28 07:31:45 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627601.D
Acq On : 27 Jun 2005 4:38 pm
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Jun 28 7:31 2005

Vial: 1
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: DFTPP.RES

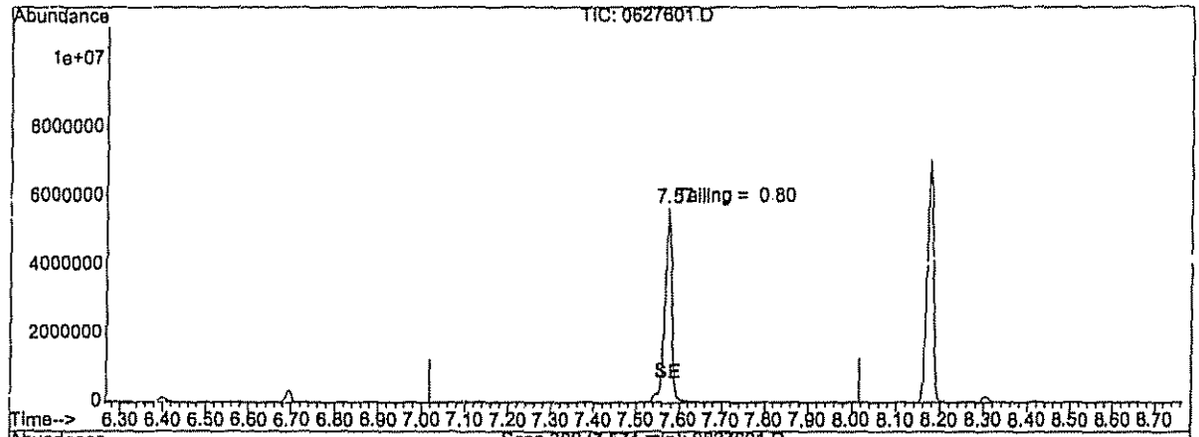
Method : C:\HPCHEM\1\DATA\6062705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

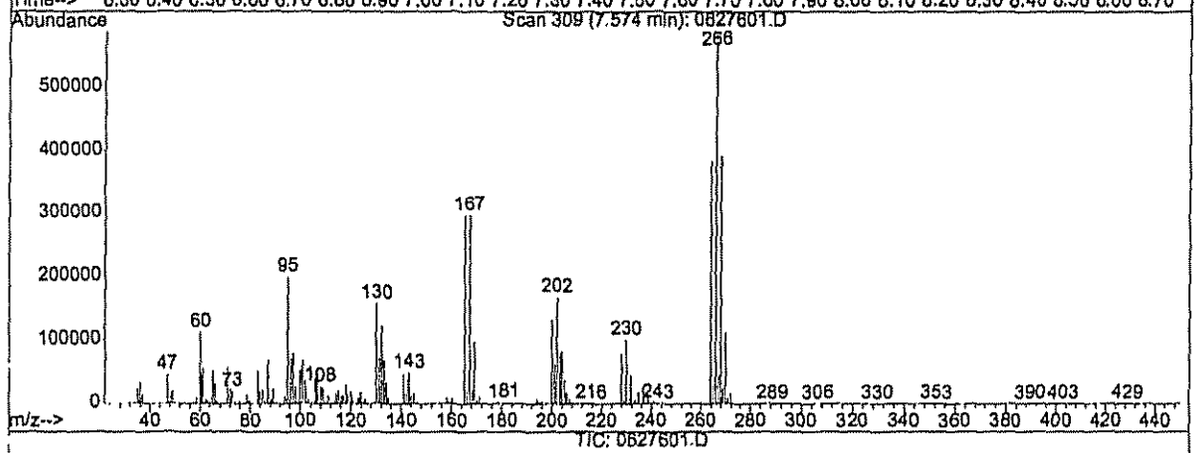


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627601.D Vial: 1
Acq On : 27 Jun 2005 4:38 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 7:31 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

7.57min 4.03

response 6457064

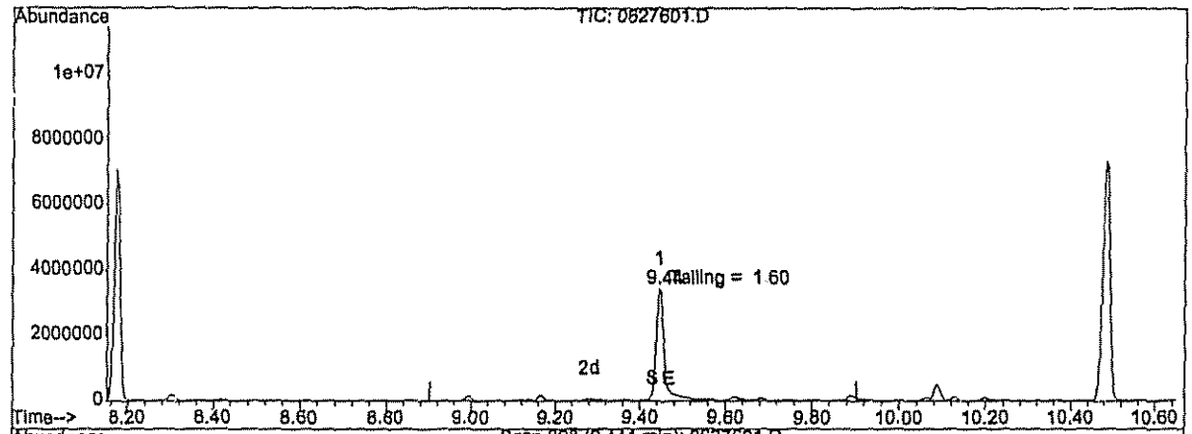
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

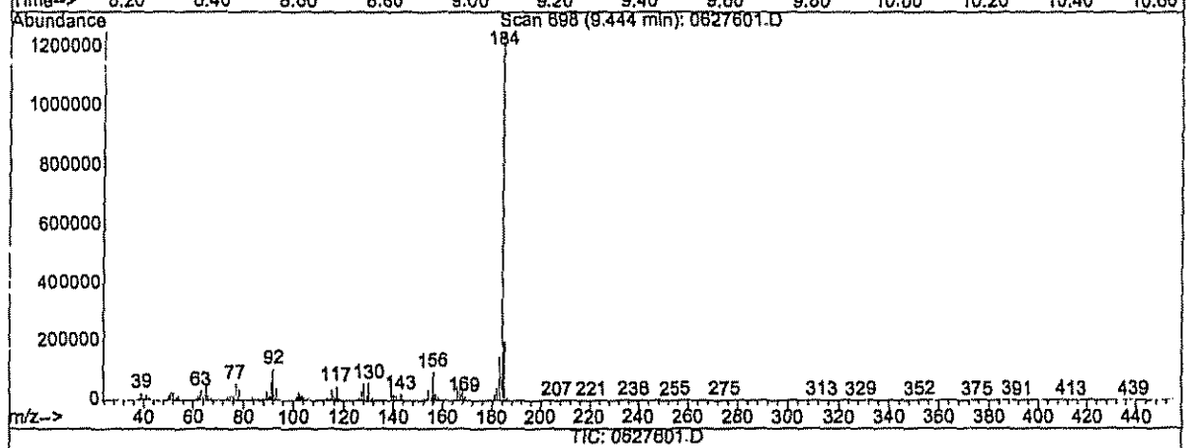
0627601.D DFTPP.M Tue Jun 28 07:32:39 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627601.D Vial: 1
Acq On : 27 Jun 2005 4:38 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 7:31 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





TIC: 0627601.D

(2) Benzidine

9.44min 5.09

response 4617691

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0627601.D DFTPP.M Tue Jun 28 07:32:46 2005 ENV

DDT Breakdown Report

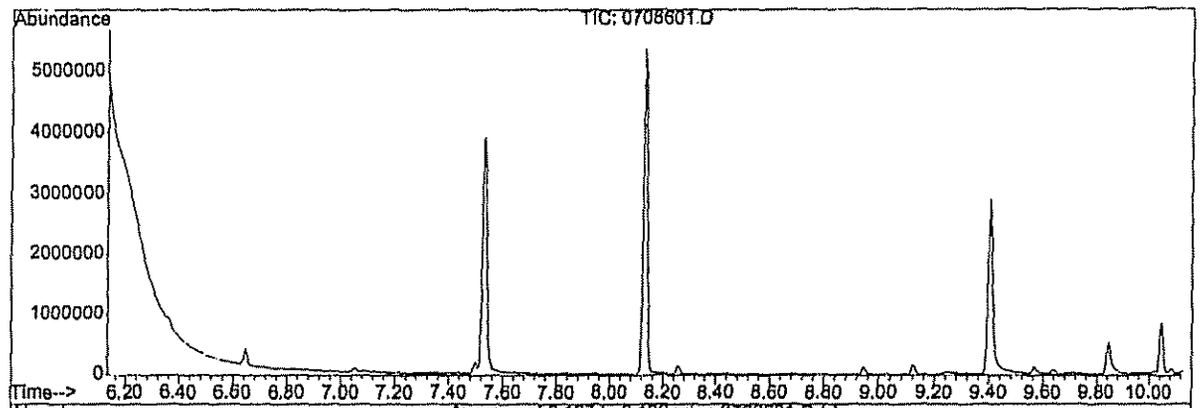
DFTPP TUNE

		Area
GCMS	DDT	8846097
	DDD	459974
	DDE	56651
	% Breakdown =	**5.52%**

Date: 06/27/05
Instrument: MSD6
File: 0627601.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6070805\0708601.D Vial: 1
Acq On : 8 Jul 2005 2:07 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6070805\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 423, 424, 425; Background Corrected with Scan 415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	249289	PASS
68	69	0.00	2	0.4	1238	PASS
69	198	0.00	100	51.4	278353	PASS
70	69	0.00	2	0.6	1597	PASS
127	198	40	60	50.1	270933	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	541227	PASS
199	198	5	9	6.7	36123	PASS
275	198	10	30	20.5	110936	PASS
365	198	1	100	2.1	11440	PASS
441	443	0.01	100	88.5	44496	PASS
442	198	40	100	51.0	275947	PASS
443	442	17	23	18.2	50293	PASS

0708601.D DFTPP.M Fri Jul 08 14:22:20 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708601.D Vial: 1
Acq On : 8 Jul 2005 2:07 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:38 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\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)

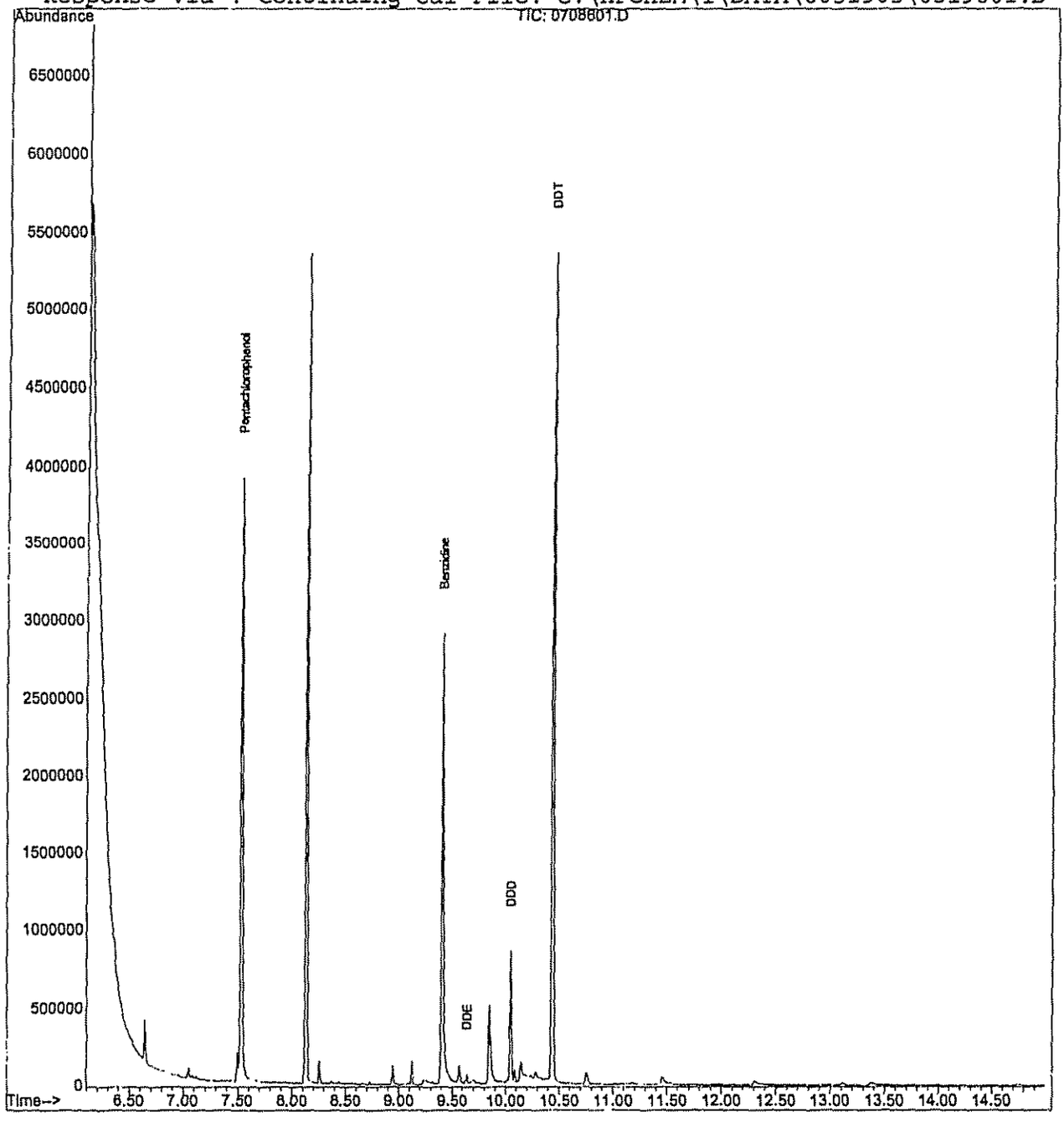
Target Compounds					Qvalue
1) Pentachlorophenol	7.53	TIC	4666684	2.91	100
2) Benzidine	9.41	TIC	3792993	4.18	100
3) DDT	10.43	TIC	6373287	11.93	100
4) DDD	10.05	TIC	827364m	160.99	
5) DDE	9.64	TIC	65010m	3.36	

(#) = qualifier out of range (m) = manual integration
0708601.D DFTPP.M Tue Jul 12 09:38:21 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6070805\0708601.D Vial: 1
Acq On : 8 Jul 2005 2:07 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:38 2005 Quant Results File: DFTPP.RES

Method : C:\HPCHEM\1\DATA\6070805\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

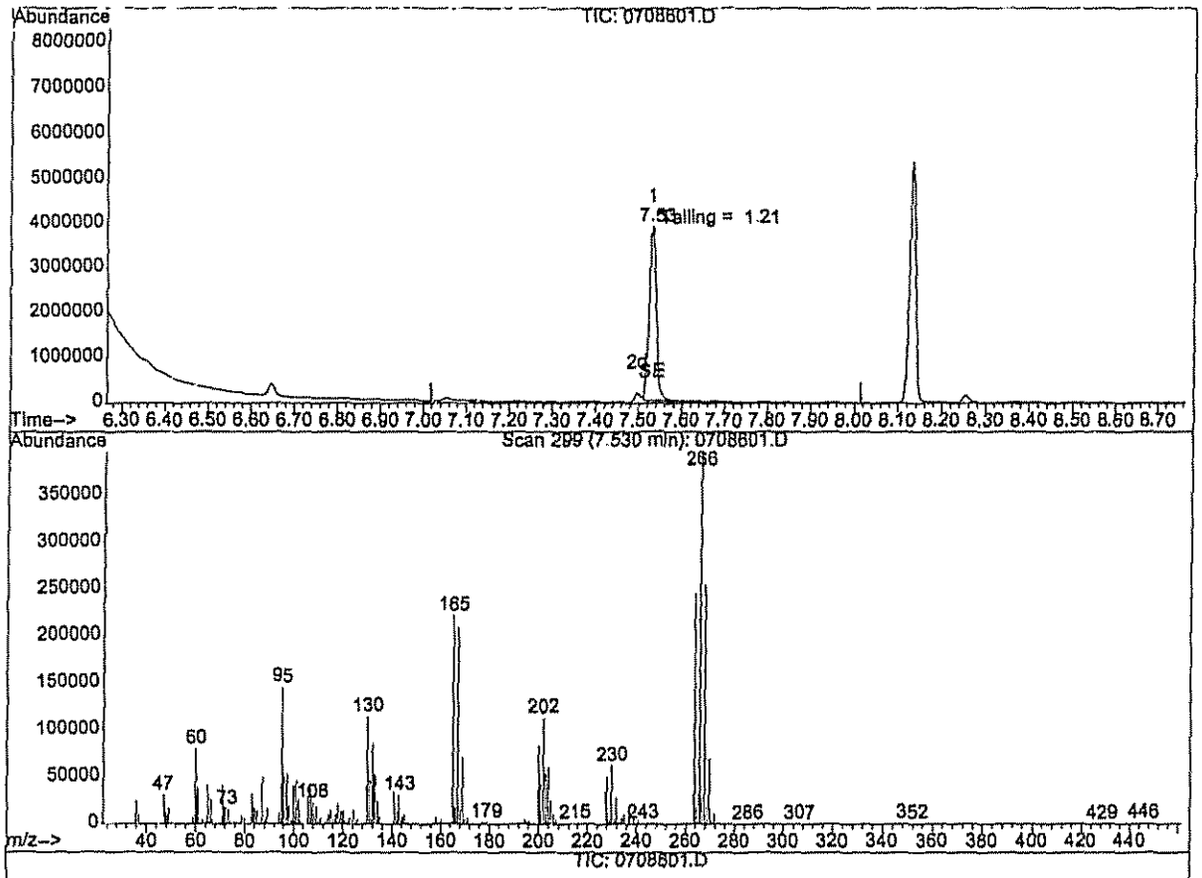


0708601.D DFTPP.M Tue Jul 12 09:38:21 2005 ENV Page 2

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708601.D Vial: 1
Acq On : 8 Jul 2005 2:07 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:38 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration



(1) Pentachlorophenol

7.53min 2.91

response 4666684

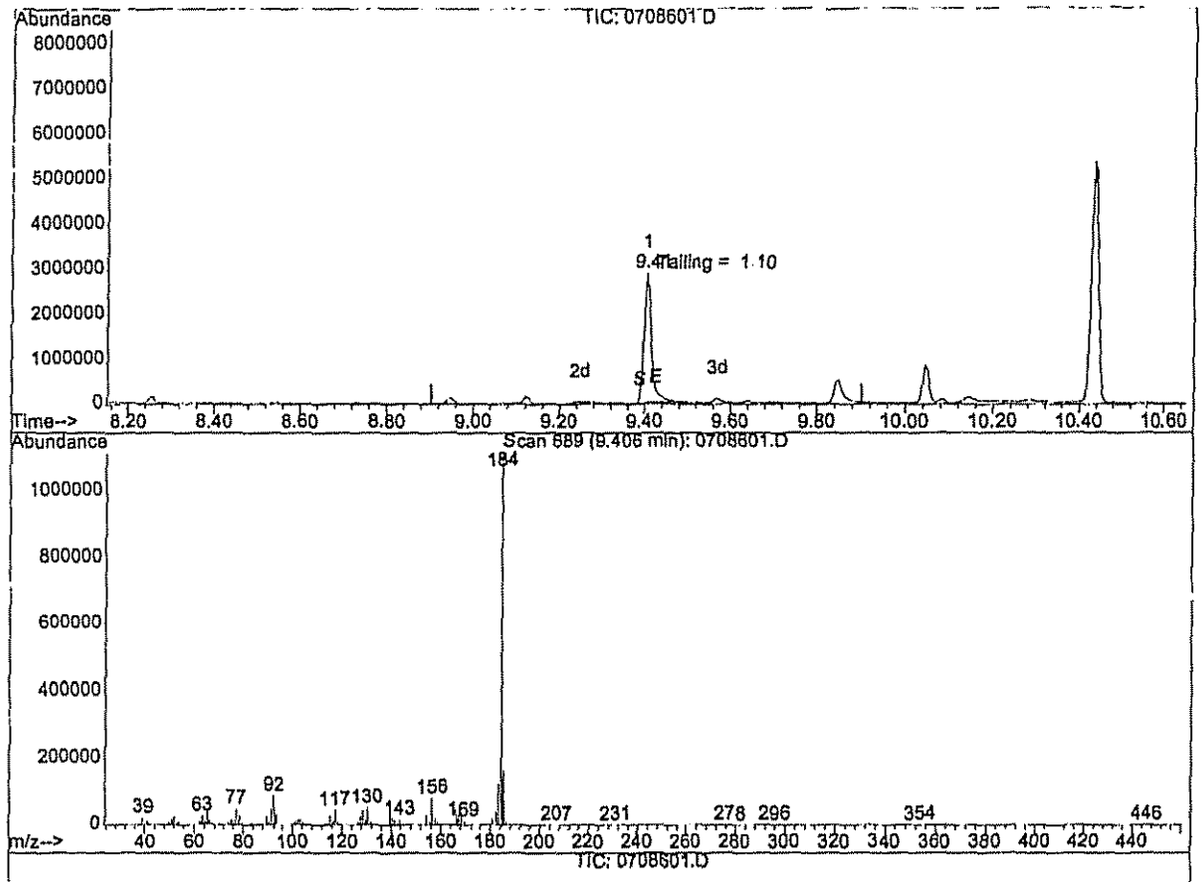
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

0708601.D DFTPP.M Tue Jul 12 09:38:37 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708601.D Vial: 1
Acq On : 8 Jul 2005 2:07 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:38 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration



(2) Benzidine

9.41min 4 10 m

response 3725052

Signal	Exp%	Act%
TIC	100	100
0 00	0 00	0 00
0.00	0 00	0.00
0 00	0.00	0.00

0708601.D DFTPP.M Tue Jul 12 09:38:59 2005 ENV

DDT Breakdown Report

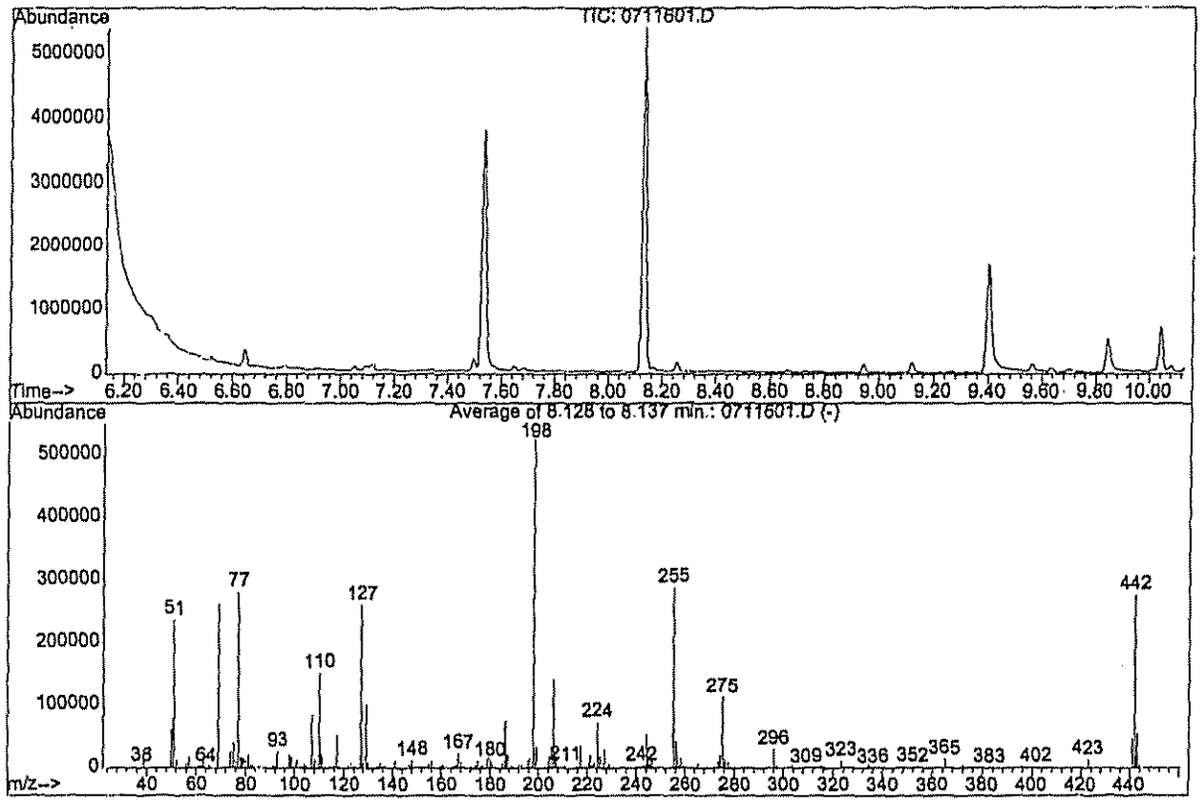
DFTPP TUNE

		Area
GCMS	DDT	6373287
	DDD	827364
	DDE	65010
	% Breakdown =	**12.28%**

Date: 07/08/05
Instrument: MSD6
File: 0708601.d

DFTPP

Data File : C:\HPCHEM\1\DATA\6071105\0711601.D Vial: 1
Acq On : 11 Jul 2005 2:32 pm Operator: MRC
Sample : DFTPP Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\6071105\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 424, 425, 426; Background Corrected with Scan 417

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.2	236890	PASS
68	69	0.00	2	0.4	1089	PASS
69	198	0.00	100	50.1	262619	PASS
70	69	0.00	2	0.4	1085	PASS
127	198	40	60	49.6	260124	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	524608	PASS
199	198	5	9	6.5	34043	PASS
275	198	10	30	21.5	112709	PASS
365	198	1	100	2.7	14345	PASS
441	443	0.01	100	85.3	46597	PASS
442	198	40	100	52.6	276117	PASS
443	442	17	23	19.8	54616	PASS

0711601.D DFTPP.M Mon Jul 11 14:47:21 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711601.D Vial: 1
Acq On : 11 Jul 2005 2:32 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:49 2005 Quant Results File: DFTPP.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\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

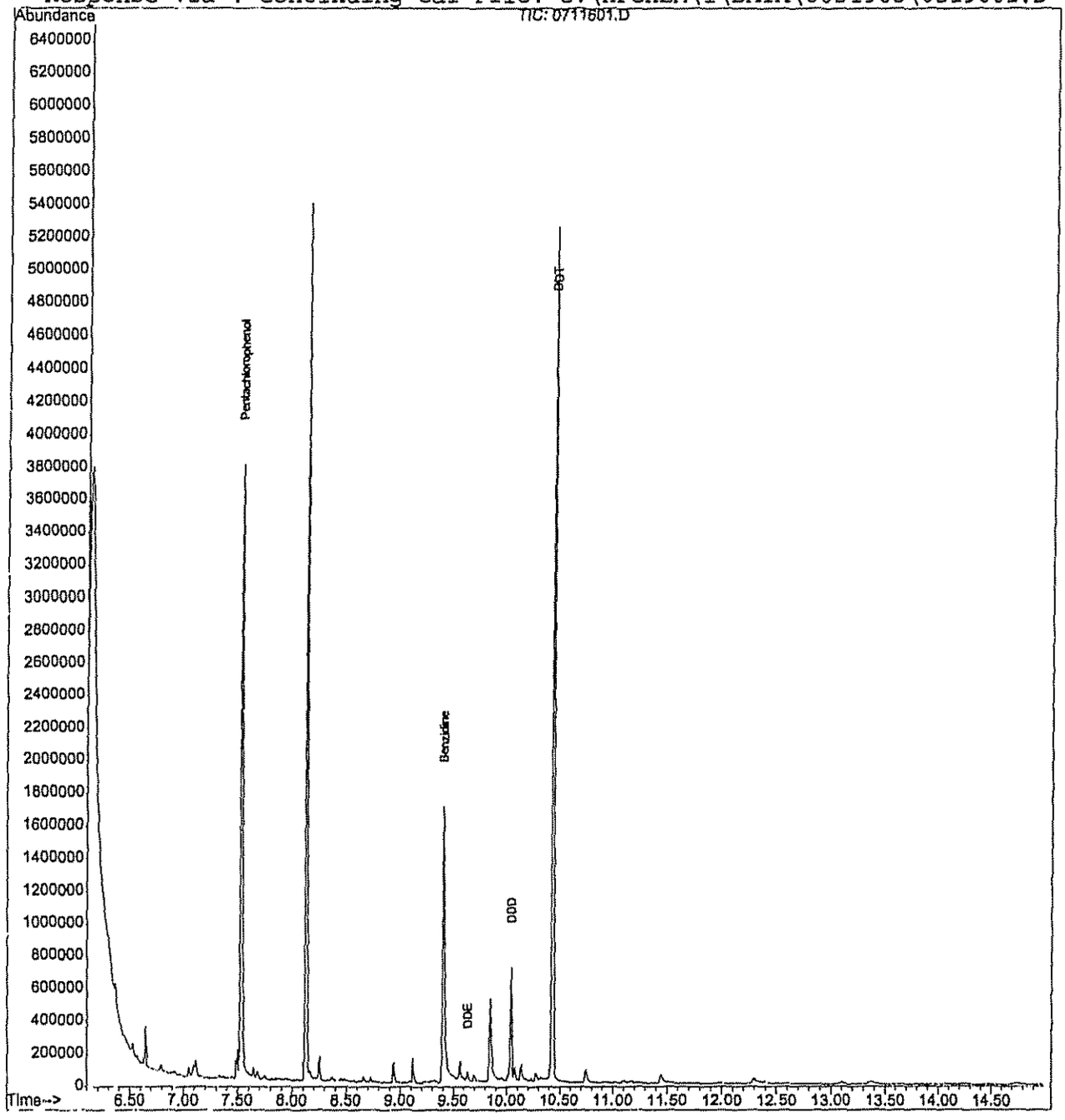
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Pentachlorophenol	7.53	TIC	4616849	2.88	100
2) Benzidine	9.40	TIC	2598516	2.86	100
3) DDT	10.44	TIC	6039868	11.30	100
4) DDD	10.05	TIC	668367m	130.05	
5) DDE	9.64	TIC	55215m	2.85	

(#) = qualifier out of range (m) = manual integration
0711601.D DFTPP.M Tue Jul 12 09:50:22 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711601.D Vial: 1
Acq On : 11 Jul 2005 2:32 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:49 2005 Quant Results File: DFTPP.RES

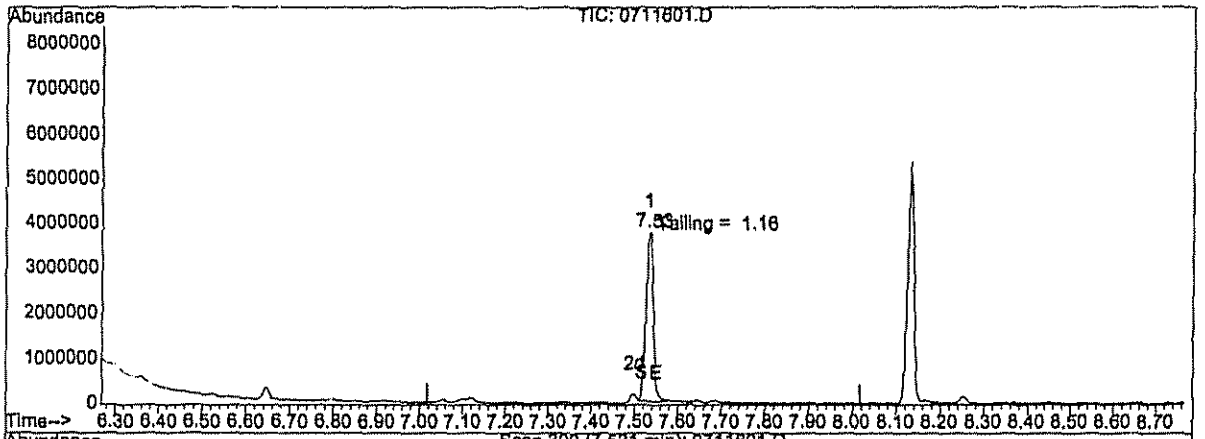
Method : C:\HPCHEM\1\DATA\6070805\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

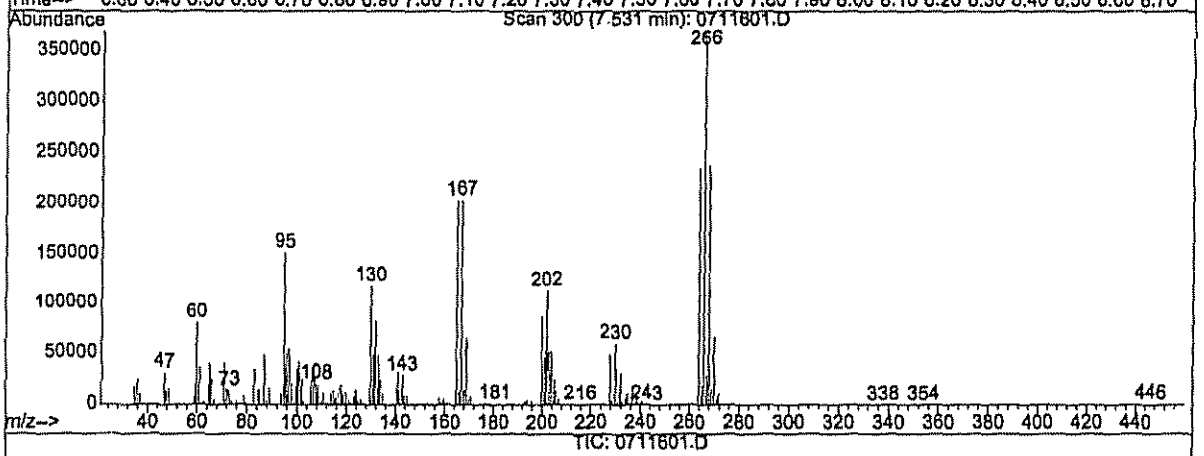


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6071105\0711601.D Vial: 1
Acq On : 11 Jul 2005 2:32 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:49 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

7.53min 2.88

response 4616849

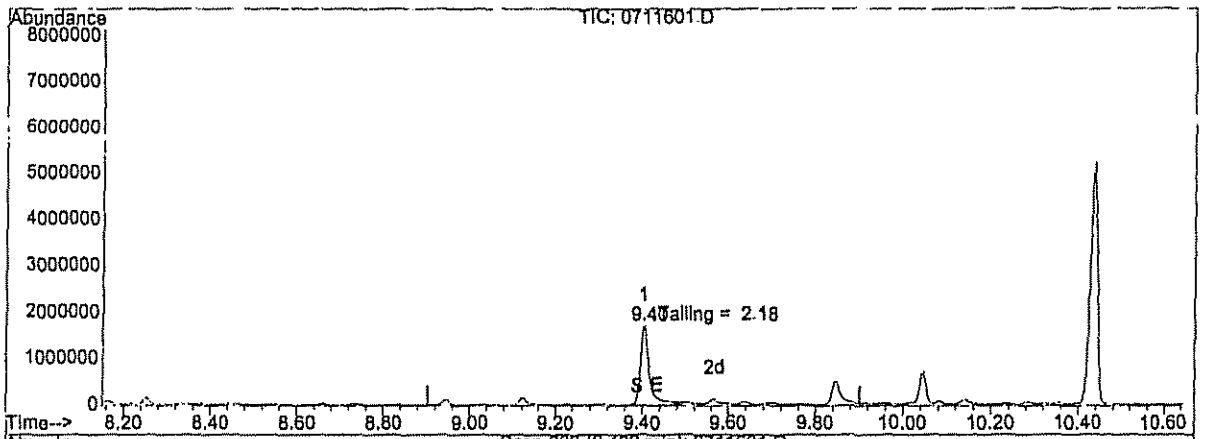
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

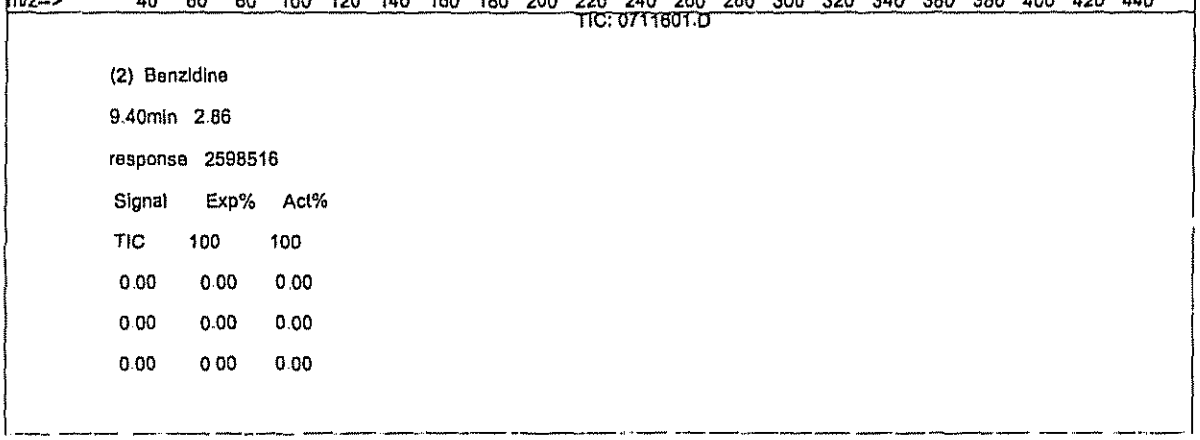
0711601.D DFTPP.M Tue Jul 12 09:56:43 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6071105\0711601.D Vial: 1
Acq On : 11 Jul 2005 2:32 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 9:49 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6071105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Single Level Calibration





0711601.D DFTPP.M Tue Jul 12 09:56:52 2005 ENV

DDT Breakdown Report

DFTPP TUNE

		Area
GCMS	DDT	6039868
	DDD	668367
	DDE	55215
	% Breakdown =	**10.70%**

Date: 07/11/05
Instrument: MSD6
File: 0711601.D

8270-BN Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD6
Method ; 8270.M
Matrix ; NA
Cal. Date ; 27 Jun 2005 9:03 pm
Last Modified ; Tue Jun 28 11:21:41 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\HPCHEM\1\DATA\6062705\0627609.D
24 ; C:\HPCHEM\1\DATA\6062705\0627608.D
12 ; C:\HPCHEM\1\DATA\6062705\0627607.D
8 ; C:\HPCHEM\1\DATA\6062705\0627606.D
6 ; C:\HPCHEM\1\DATA\6062705\0627605.D
4 ; C:\HPCHEM\1\DATA\6062705\0627604.D
2 ; C:\HPCHEM\1\DATA\6062705\0627603.D
1 ; C:\HPCHEM\1\DATA\6062705\0627602.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	0.905	0.945	1.025	0.784	0.872	0.574	0.390		0.785	28.768
N-Nitrosodimethylamine	0.635	0.687	0.670	0.666	0.697	0.665	0.688	0.633	0.668	3.555
Phenol	1.642	1.745	1.787	1.727	1.888	1.836	1.845	1.911	1.797	5.014
Bis(2-chloroethyl)ether	1.269	1.423	1.497	1.368	1.431	1.419	1.359	1.407	1.397	4.761
2-Chlorophenol	1.262	1.312	1.348	1.272	1.359	1.326	1.334	1.364	1.322	2.891
Benzyl Alcohol	0.909	0.939	0.963	0.902	0.967	0.915	0.906	0.855	0.919	3.959
1,3-Dichlorobenzene	1.207	1.253	1.303	1.255	1.383	1.345	1.323	1.380	1.306	4.887
1,4-Dichlorobenzene	1.249	1.316	1.340	1.290	1.390	1.376	1.368	1.403	1.341	3.979
1,2-Dichlorobenzene	1.114	1.158	1.211	1.171	1.287	1.237	1.233	1.272	1.210	4.876
2-Methylphenol	1.035	1.093	1.129	1.060	1.144	1.088	1.103	1.126	1.097	3.336
3-, 4-Methylphenol	1.555	1.582	1.620	1.528	1.676	1.579	1.562	1.620	1.590	2.936
Bis(2-chloroisopropyl)ether	1.543	1.618	1.647	1.584	1.704	1.674	1.661	1.725	1.644	3.690
N-Nitrosodi-n-propylamine	0.798	0.837	0.853	0.814	0.865	0.825	0.822	0.855	0.834	2.766
Hexachloroethane	0.516	0.532	0.545	0.513	0.561	0.532	0.529	0.516	0.531	3.048
2-Fluorophenol (surr)	1.001	1.029	1.056	1.024	1.033	1.044	0.989	0.956	1.017	3.228
Phenol-d6 (surr)	1.506	1.572	1.604	1.518	1.644	1.593	1.616	1.644	1.587	3.305
Nitrobenzene	0.371	0.387	0.408	0.383	0.409	0.392	0.406	0.397	0.394	3.425
Isophorone	0.547	0.575	0.603	0.569	0.608	0.574	0.581	0.597	0.582	3.480
2-Nitrophenol	0.162	0.170	0.179	0.176	0.185	0.186	0.225	0.182	0.183	10.216
2,4-Dimethylphenol	0.245	0.252	0.268	0.257	0.274	0.256	0.276	0.270	0.262	4.320
Benzoic Acid	0.204	0.200	0.199	0.176	0.178	0.152	0.133		0.177	15.115
Bis(2-chloroethoxy)methane	0.354	0.369	0.391	0.376	0.396	0.385	0.414	0.393	0.385	4.740
2,4-Dichlorophenol	0.250	0.261	0.277	0.261	0.279	0.266	0.273	0.255	0.265	3.928
1,2,4-Trichlorobenzene	0.255	0.267	0.284	0.271	0.290	0.279	0.294	0.299	0.280	5.270
Naphthalene	0.805	0.833	0.877	0.847	0.910	0.883	0.896	0.921	0.872	4.606
4-Chloroaniline	0.154	0.163	0.113	0.119	0.137	0.126	0.174	0.195	0.148	19.582
Hexachlorobutadiene	0.161	0.171	0.182	0.171	0.187	0.176	0.186	0.182	0.177	4.961
4-Chloro-3-methylphenol	0.312	0.320	0.331	0.318	0.332	0.307	0.307	0.278	0.313	5.483
2-Methylnaphthalene	0.584	0.597	0.622	0.603	0.645	0.624	0.658	0.644	0.622	4.163
Nitrobenzene-d5 (surr)	0.132	0.138	0.144	0.138	0.149	0.145	0.150	0.137	0.142	4.514
Hexachlorocyclopentadiene	0.173	0.148	0.156	0.155	0.153	0.128	0.114	0.104	0.141	16.766
2,4,6-Trichlorophenol	0.350	0.356	0.354	0.348	0.381	0.359	0.352	0.336	0.354	3.611
2,4,5-Trichlorophenol	0.363	0.364	0.383	0.370	0.389	0.373	0.362	0.348	0.369	3.452
2-Chloronaphthalene	0.933	0.936	0.981	0.961	1.034	1.006	1.015	1.022	0.986	4.000
2-Nitroaniline	0.362	0.374	0.372	0.356	0.396	0.368	0.350	0.332	0.364	5.229
3-Nitroaniline		0.083			0.096	0.091	0.126	0.120	0.103	18.415
1-Methylnaphthalene	0.941	0.930	0.968	0.939	1.032	0.999	1.017	1.020	0.981	4.184
Dimethylphthalate	1.105	1.131	1.154	1.130	1.237	1.174	1.188	1.219	1.167	3.925
Acenaphthylene	1.022	1.160	1.300	1.291	1.387	1.346	1.368	1.396	1.284	10.130
2,6-Dinitrotoluene	0.248	0.254	0.258	0.254	0.278	0.260	0.253	0.253	0.257	3.506
Acenaphthene	0.852	0.849	0.872	0.851	0.924	0.892	0.912	0.911	0.883	3.494
2,4-Dinitrophenol	0.159	0.153	0.161	0.149	0.154	0.138	0.139	0.140	0.149	6.097
4-Nitrophenol	0.192	0.183	0.187	0.172	0.173	0.154	0.151	0.131	0.168	12.504
Dibenzofuran	1.374	1.364	1.410	1.391	1.487	1.443	1.493	1.483	1.431	3.691
2,4-Dinitrotoluene	0.315	0.315	0.325	0.319	0.337	0.327	0.331	0.328	0.325	2.408
Fluorene	1.040	1.017	1.041	1.037	1.120	1.074	1.079	1.100	1.063	3.329
Diethylphthalate	1.036	1.052	1.086	1.045	1.124	1.090	1.092	1.107	1.079	2.919
4-Chlorophenyl phenyl ether	0.513	0.516	0.536	0.530	0.573	0.561	0.577	0.589	0.549	5.331
4-Nitroaniline			0.128	0.140	0.144	0.165	0.129	0.127	0.139	10.567
2-Fluorobiphenyl (surr)	1.054	1.062	1.097	1.073	1.166	1.156	1.155	1.203	1.121	4.988
2,4,6-Tribromophenol (surr)	0.126	0.122	0.123	0.121	0.123	0.115	0.105	0.102	0.117	7.493
4,6-Dinitro-2-methylphenol	0.144	0.146	0.155	0.147	0.162	0.144	0.133	0.131	0.145	6.980
Diphenylamine			0.338	0.373	0.432	0.431	0.454	0.473	0.417	12.217
4-bromophenyl phenyl ether	0.184	0.190	0.201	0.196	0.220	0.214	0.211	0.210	0.203	6.193
Hexachlorobenzene	0.179	0.184	0.189	0.190	0.209	0.209	0.212	0.225	0.200	8.135
Pentachlorophenol	0.150	0.151	0.156	0.152	0.154	0.146	0.138	0.127	0.147	6.515
Phenanthrene	0.890	0.929	0.982	0.963	1.043	1.023	1.024	1.071	0.990	6.162

Carbazole				0.642	0.639	0.731	0.830	0.786	0.725	11.760
Anthracene	0.837	0.846	0.925	0.918	0.969	0.959	0.947	0.984	0.923	5.944
Azobenzene	0.790	0.824	0.872	0.837	0.917	0.905	0.893	0.946	0.873	5.995
Di-n-Butylphthalate	1.065	1.145	1.183	1.149	1.274	1.233	1.234	1.229	1.189	5.673
Fluoranthene	0.941	0.986	1.048	1.018	1.111	1.063	1.088	1.078	1.042	5.463
alpha-BHC	0.132	0.146	0.157	0.155	0.171	0.163	0.166	0.171	0.158	8.453
beta-BHC	0.118	0.130	0.131	0.129	0.141	0.140	0.132	0.132	0.132	5.356
gamma-BHC	0.118	0.126	0.136	0.132	0.142	0.139	0.138	0.146	0.135	6.668
delta-BHC	0.110	0.121	0.126	0.122	0.134	0.128	0.129	0.149	0.128	8.745
Heptachlor	0.139	0.147	0.154	0.151	0.158	0.153	0.154	0.143	0.150	4.278
Aldrin	0.148	0.165	0.174	0.169	0.189	0.179	0.179	0.182	0.173	7.346
Heptachlor Epoxide	0.049	0.050	0.051	0.052	0.057	0.054	0.054	0.051	0.052	4.628
Endosulfan I	0.035	0.041	0.045	0.044	0.046	0.049	0.047	0.040	0.043	10.499
4,4'-DDE	0.216	0.234	0.245	0.243	0.260	0.252	0.253	0.253	0.245	5.736
Dieldrin	0.191	0.208	0.221	0.216	0.233	0.235	0.232	0.245	0.223	7.856
Endrin	0.036	0.039	0.042	0.039	0.042	0.039	0.038	0.033	0.038	7.960
Endosulfan II	Not Calibrated									
4,4'-DDD	0.346	0.383	0.402	0.403	0.438	0.425	0.435	0.448	0.410	8.267
Endosulfan Sulfate		0.046	0.052	0.053	0.059	0.056	0.058	0.054	0.054	7.986
4,4'-DDT	0.259	0.302	0.323	0.324	0.344	0.330	0.324	0.339	0.318	8.457
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.033	0.039	0.043	0.040	0.045	0.043	0.042	0.034	0.040	11.308
Methoxychlor	0.482	0.591	0.656	0.646	0.719	0.655	0.648	0.609	0.626	11.080
Pyrene	1.626	1.459	1.439	1.354	1.470	1.456	1.571	1.622	1.500	6.460
Butylbenzylphthalate	0.721	0.726	0.720	0.665	0.713	0.715	0.736	0.676	0.709	3.498
Benzo[a]anthracene	1.061	1.060	1.097	1.023	1.123	1.112	1.061	1.099	1.080	3.106
3,3'-Dichlorobenzidine	0.187	0.160	0.145	0.114	0.115	0.102	0.096	0.129	0.131	23.885
Chrysene	1.016	1.016	1.073	0.995	1.079	1.070	1.068	1.120	1.055	3.960
Bis(2-ethylhexyl)phthalate	0.910	0.912	0.935	0.845	0.947	0.948	0.940	0.905	0.918	3.689
4-Terphenyl-d14 (surr)	1.107	0.977	0.979	0.912	0.985	0.969	1.028	1.044	1.000	5.864
Di-n-octylphthalate	2.313	2.534	2.581	2.174	2.124	2.048	1.986	1.661	2.178	13.792
Benzo[b]fluoranthene	1.240	1.401	1.345	1.231	1.248	1.188	1.038	1.005	1.212	11.245
Benzo[k]fluoranthene	1.183	1.369	1.442	1.403	1.427	1.322	1.462	1.283	1.361	6.932
Benzo[a]pyrene	1.023	1.092	1.084	0.977	0.977	0.959	0.819	0.756	0.961	12.356
Indeno(1,2,3-c,d)pyrene	0.693	0.584	0.461	0.377	0.407	0.307	0.216	0.227	0.409	40.879
Dibenzo[a,h]anthracene	0.640	0.555	0.505	0.423	0.427	0.344	0.221	0.078	0.399	45.646
Benzo[g,h,i]perylene	0.707	0.650	0.626	0.564	0.602	0.577	0.481	0.362	0.571	18.818

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 06-29-04

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.22	152	245585	4.00 ug/mL	0.00
18) Naphthalene-D8	9.14	136	987464	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.93	164	554019	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.31	188	759315	4.00 ug/mL	0.00
85) Chrysene-D12	18.56	240	516455	4.00 ug/mL	-0.01
93) Perylene-D12	20.92	264	342970	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.40	112	58686	0.93 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 9.30%	
17) Phenol-d6 (surr)	6.69	99	100944	1.05 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 10.50%	
32) Nitrobenzene-d5 (surr)	8.04	128	33814	1.01 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 10.10%	
53) 2-Fluorobiphenyl (surr)	10.87	172	166581	1.18 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 11.80%	
54) 2,4,6-Tribromophenol (surr	13.19	330	14163	0.87 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 8.70%	
92) 4-Terphenyl-d14 (surr)	16.91	244	134779	0.98 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 9.80%	
Target Compounds					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	3.79	74	38869	0.90 ug/mL	92
4) Phenol	6.71	94	117327	1.12 ug/mL	92
5) Bis(2-chloroethyl)ether	6.85	93	86356	0.99 ug/mL	89
6) 2-Chlorophenol	6.91	128	83773	1.05 ug/mL	95
7) Benzyl Alcohol	7.43	108	52481	0.91 ug/mL	98
8) 1,3-Dichlorobenzene	7.13	146	84719	1.10 ug/mL#	94
9) 1,4-Dichlorobenzene	7.24	146	86151	1.08 ug/mL	94
10) 1,2-Dichlorobenzene	7.46	146	78075	1.10 ug/mL	97
11) 2-Methylphenol	7.60	107	69146	1.04 ug/mL	94
12) 3-, 4-Methylphenol	7.83	107	99457	1.02 ug/mL	95
13) Bis(2-chloroisopropyl)ethe	7.64	45	105889	1.04 ug/mL	97
14) N-Nitrosodi-n-propylamine	7.83	70	52516	0.99 ug/mL	94
15) Hexachloroethane	7.96	117	31702	0.95 ug/mL#	91
19) Nitrobenzene	8.07	77	97935	1.05 ug/mL#	93
20) Isophorone	8.44	82	147391	1.04 ug/mL	96
21) 2-Nitrophenol	8.56	139	44847	1.10 ug/mL#	78
22) 2,4-Dimethylphenol	8.64	122	66687	1.10 ug/mL	92
23) Benzoic Acid	8.73	122	26403	0.56 ug/mL	97
24) Bis(2-chloroethoxy)methane	8.79	93	97121	1.08 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.92	162	62993	1.01 ug/mL	94
26) 1,2,4-Trichlorobenzene	9.06	180	73728	1.16 ug/mL	100
27) Naphthalene	9.17	128	227454	1.14 ug/mL	97
28) 4-Chloroaniline	9.28	127	48242	1.81 ug/mL	96
29) Hexachlorobutadiene	9.39	225	44855	1.12 ug/mL	95
30) 4-Chloro-3-methylphenol	10.05	107	68700	0.89 ug/mL	96
31) 2-Methylnaphthalene	10.27	142	158951	1.10 ug/mL	99
34) Hexachlorocyclopentadiene	10.54	237	14351	0.66 ug/mL#	94
35) 2,4,6-Trichlorophenol	10.73	196	46535	0.99 ug/mL	97
36) 2,4,5-Trichlorophenol	10.78	196	48243	1.00 ug/mL	93
37) 2-Chloronaphthalene	11.04	162	141576	1.14 ug/mL	96
38) 2-Nitroaniline	11.22	65	45948	0.95 ug/mL	96
39) 3-Nitroaniline	11.89	138	16686	4.81 ug/mL#	85
40) 1-Methylnaphthalene	10.42	142	141253	1.13 ug/mL	97
41) Dimethylphthalate	11.54	163	168826	1.12 ug/mL	97
42) Acenaphthylene	11.70	152	193296	1.27 ug/mL	99
43) 2,6-Dinitrotoluene	11.62	165	35037	1.03 ug/mL#	86
44) Acenaphthene	11.98	153	126212	1.11 ug/mL	97
45) 2,4-Dinitrophenol	12.07	184	19432	1.02 ug/mL	93
46) 4-Nitrophenol	12.16	109	18149	0.76 ug/mL	96
47) Dibenzofuran	12.27	168	205408	1.14 ug/mL	98
48) 2,4-Dinitrotoluene	12.26	165	45416	1.09 ug/mL#	88
49) Fluorene	12.81	166	152312	1.12 ug/mL	97
50) Diethylphthalate	12.68	149	153338	1.11 ug/mL	97
51) 4-Chlorophenyl phenyl ethe	12.83	204	81596	1.20 ug/mL	94
52) 4-Nitroaniline	12.86	138	17637	1.70 ug/mL#	69
56) 4,6-Dinitro-2-methylphenol	12.91	198	24880	0.91 ug/mL	97
57) Diphenylamine	13.02	169	89719	1.84 ug/mL	98
58) 4-bromophenyl phenyl ether	13.61	248	39851	1.10 ug/mL	93
59) Hexachlorobenzene	13.70	284	42754	1.21 ug/mL	93
60) Pentachlorophenol	14.02	266	24196	0.86 ug/mL	93
61) Phenanthrene	14.35	178	203219	1.16 ug/mL	98
62) Carbazole	14.70	167	149245	4.52 ug/mL	96
63) Anthracene	14.43	178	186863	1.15 ug/mL	97
64) Azobenzene	13.08	77	179594	1.13 ug/mL	99
65) Di-n-Butylphthalate	15.33	149	233247	1.12 ug/mL	99
66) Fluoranthene	16.26	202	204595	1.15 ug/mL#	96
67) alpha-BHC	13.63	183	32483	1.18 ug/mL	97
68) beta-BHC	13.96	181	25062	1.08 ug/mL	94
69) gamma-BHC	14.11	183	27671	1.16 ug/mL	96
70) delta-BHC	14.47	183	28267	1.31 ug/mL	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Initial Calibration
DataAcq Meth : 8270

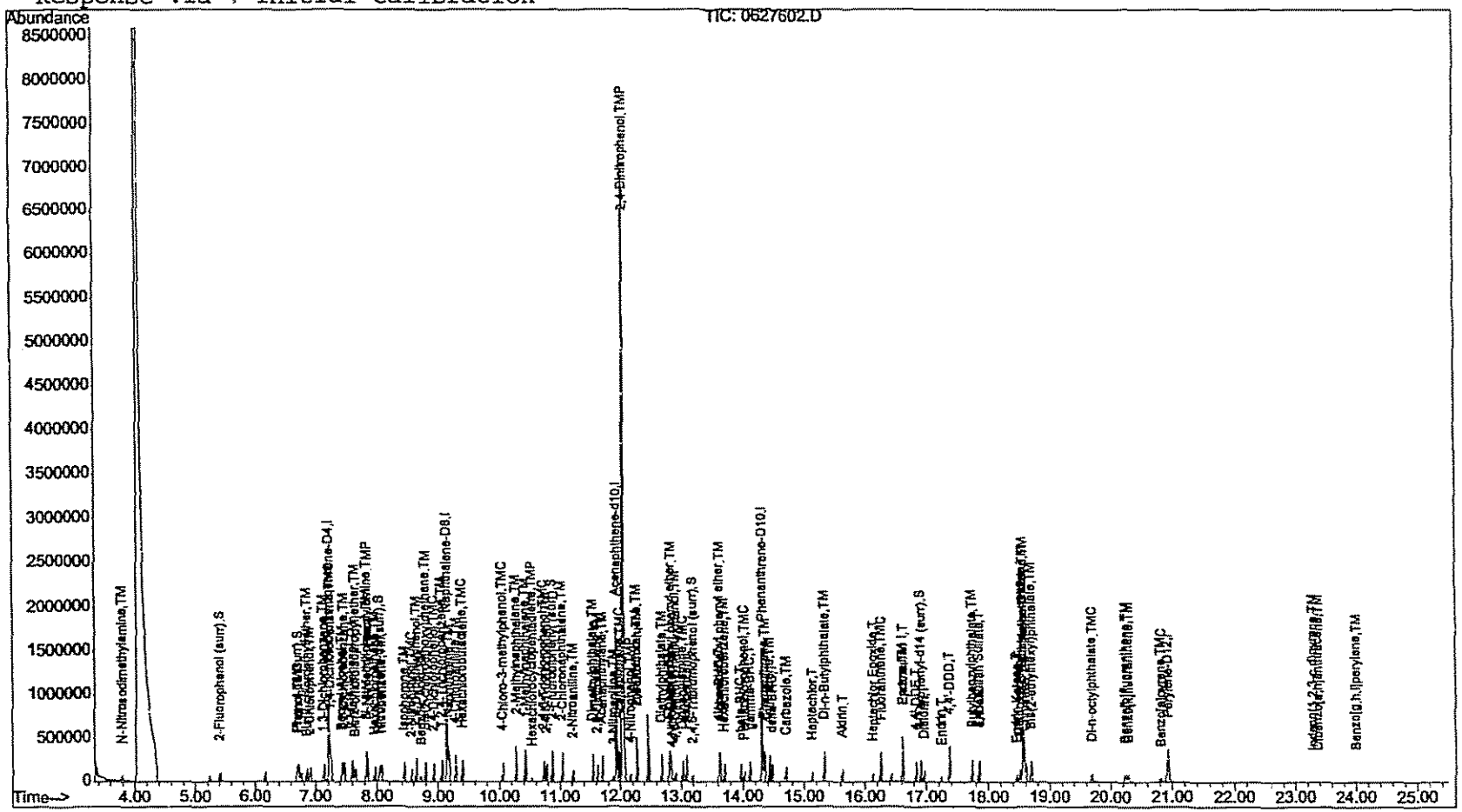
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	27211	0.93 ug/mL	97
72)	Aldrin	15.62	66	34574	1.11 ug/mL	99
73)	Heptachlor Epoxide	16.13	353	9740	1.04 ug/mL	96
74)	Endosulfan I	16.62	195	7561	1.05 ug/mL#	50
75)	4,4'-DDE	16.84	246	48085	1.16 ug/mL	99
76)	Dieldrin	16.97	79	46489	1.21 ug/mL	97
77)	Endrin	17.24	263	6184	0.88 ug/mL	88
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.37	235	85094	1.27 ug/mL#	96
80)	Endosulfan Sulfate	17.84	272	10162	1.52 ug/mL#	71
81)	4,4'-DDT	17.85	235	64379	1.23 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.46	317	6374	1.01 ug/mL	88
84)	Methoxychlor	18.51	227	115554	1.14 ug/mL	98
86)	Pyrene	16.61	202	209487	1.04 ug/mL	97
87)	Butylbenzylphthalate	17.73	149	87252	0.91 ug/mL	92
88)	Benzo[a]anthracene	18.54	228	141884	1.03 ug/mL	97
89)	3,3'-Dichlorobenzidine	18.54	252	16617	0.84 ug/mL#	96
90)	Chrysene	18.60	228	144598	1.10 ug/mL	95
91)	Bis(2-ethylhexyl)phthalate	18.69	149	116786	0.92 ug/mL	99
94)	Di-n-octylphthalate	19.68	149	142403	0.60 ug/mL	100
95)	Benzo[b]fluoranthene	20.24	252	86132	0.71 ug/mL#	95
96)	Benzo[k]fluoranthene	20.28	252	109968m	0.95 ug/mL	
97)	Benzo[a]pyrene	20.81	252	64851	0.68 ug/mL#	89
98)	Indeno(1,2,3-c,d)pyrene	23.28	276	19439m	0.34 ug/mL	
99)	Dibenzo[a,h]anthracene	23.36	278	6719	0.12 ug/mL#	55
100)	Benzo[g,h,i]perylene	23.98	276	31005m	0.50 ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: 8270.RES

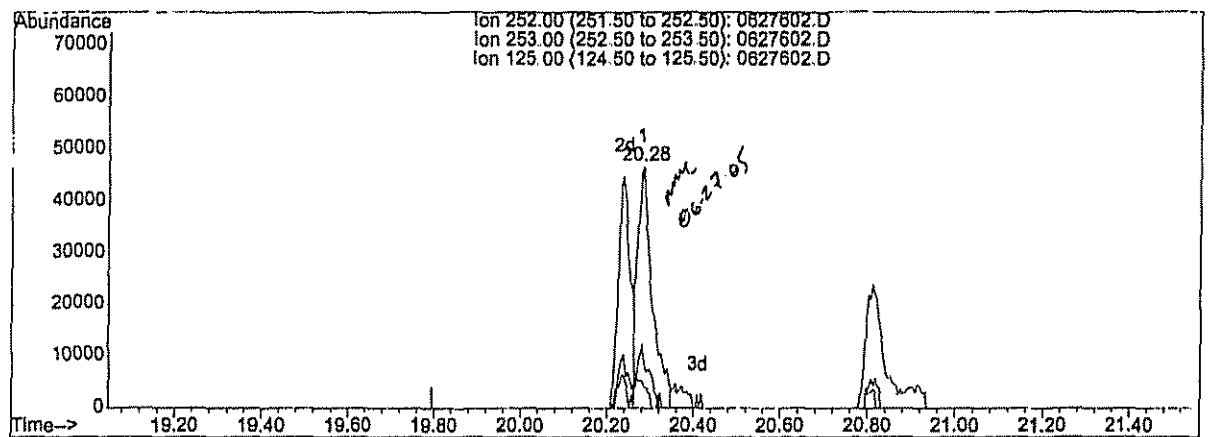
Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

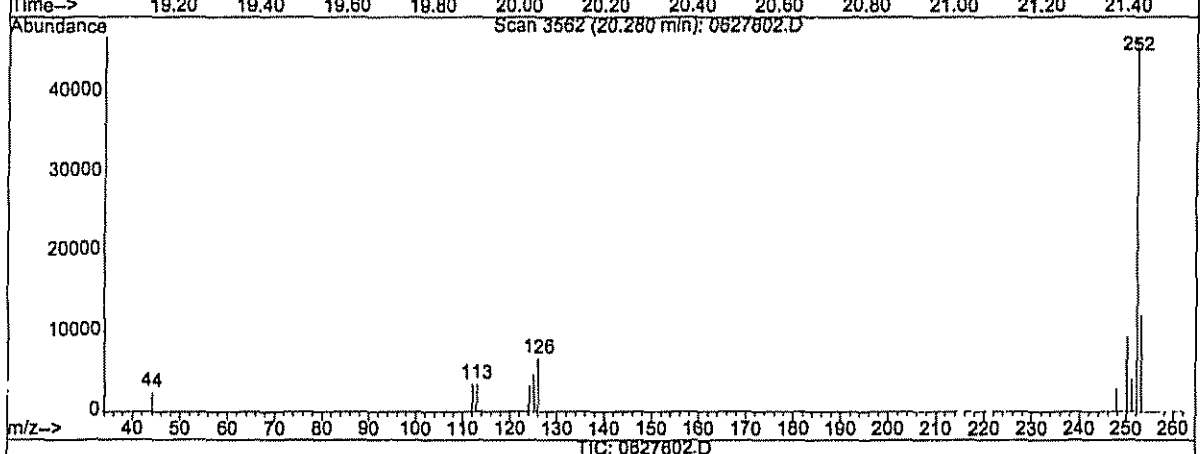


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Multiple Level Calibration





(96) Benzo[k]fluoranthene (TM)

20.28min 0.95ug/mL m

response 109968

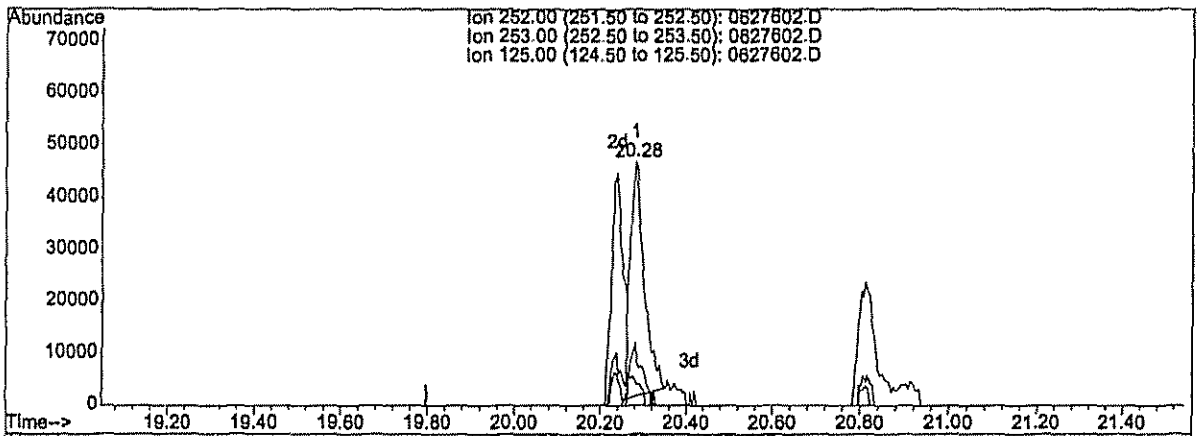
Ion	Exp%	Act%
252.00	100	100
253.00	20.80	25.69#
125.00	9.40	10.30
0.00	0.00	0.00

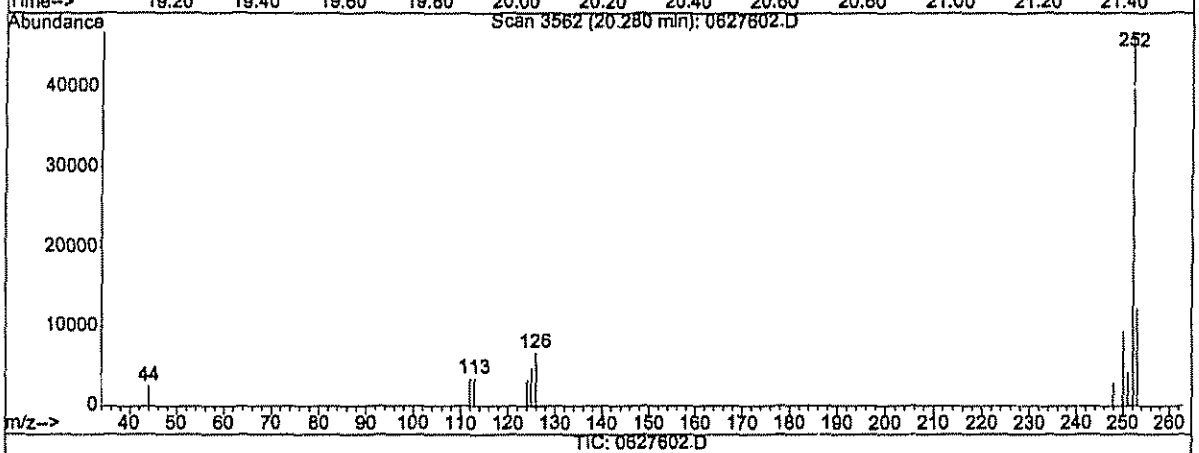
0627602.D 8270.M Tue Jun 28 11:02:20 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:01 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Multiple Level Calibration





(96) Benzo(k)fluoranthene (TM)

20.28min 0.84ug/mL

response 97924

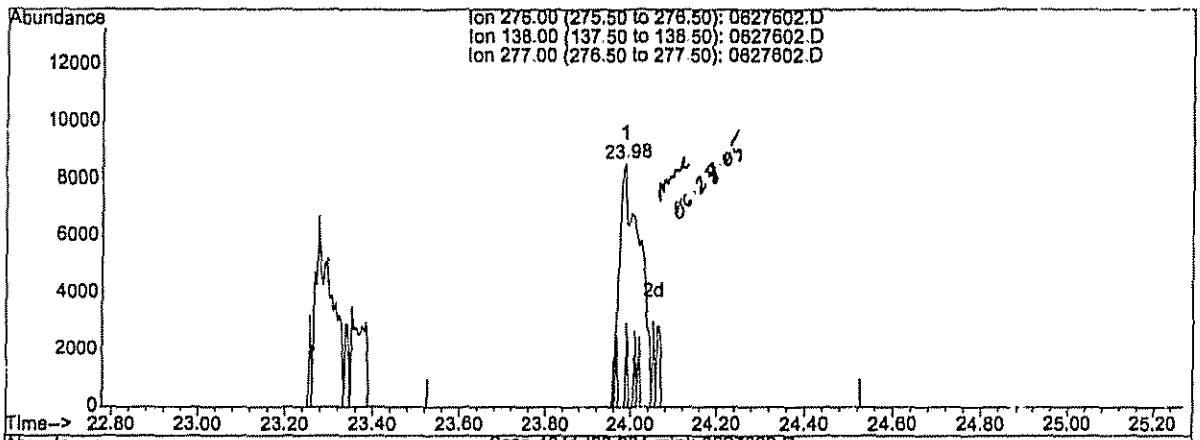
Ion	Exp%	Act%
252.00	100	100
253.00	20.80	27.95#
125.00	9.40	11.12
0.00	0.00	0.00

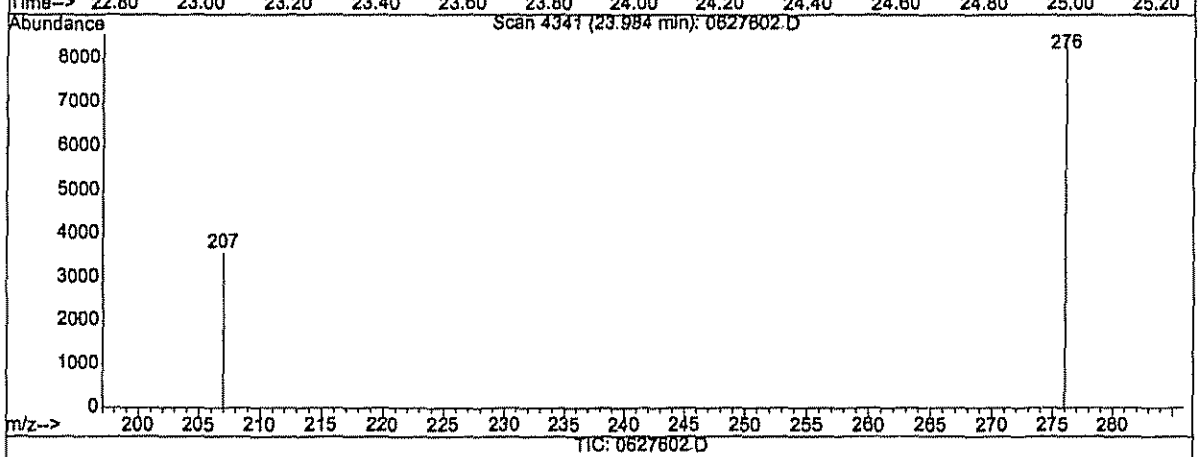
0627602.D 8270.M Tue Jun 28 11:02:15 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Multiple Level Calibration





TIC: 0627602.D

(100) Benzo[g,h,i]perylene (TM)

23.98min 0.50ug/mL m

response 31005

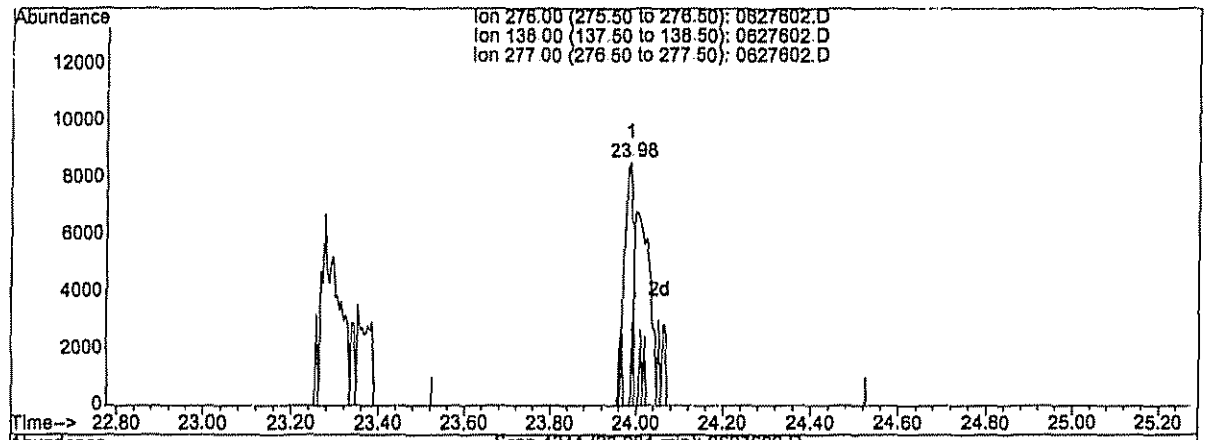
Ion	Exp%	Act%
276.00	100	100
138.00	24.60	0.00#
277.00	24.50	0.00#
0.00	0.00	0.00

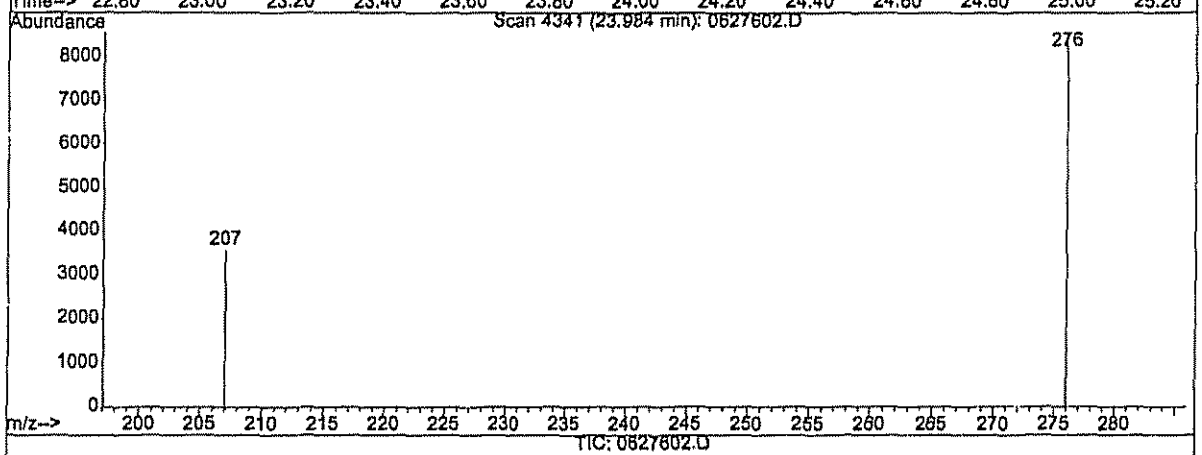
0627602.D 8270.M Tue Jun 28 11:02:40 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627602.D Vial: 9
Acq On : 27 Jun 2005 5:02 pm Operator: MRC
Sample : SVCAL1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:02 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Jun 27 14:14:24 2005
Response via : Multiple Level Calibration





TIC: 0627602.D

(100) Benzo[g,h,i]perylene (TM)

23.98min 0.22ug/mL

response 13397

Ion	Exp%	Act%
276.00	100	100
138.00	24.60	0.00#
277.00	24.50	0.00#
0.00	0.00	0.00

0627602.D 8270.M Tue Jun 28 11:02:37 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D
Acq On : 27 Jun 2005 5:36 pm
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005

Vial: 8
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 06.28.04

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.22	152	263917	4.00 ug/mL	0.00
18) Naphthalene-D8	9.14	136	1023442	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.93	164	589875	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.31	188	844808	4.00 ug/mL	0.00
85) Chrysene-D12	18.56	240	568454	4.00 ug/mL	0.00
93) Perylene-D12	20.92	264	365268	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.41	112	130500	1.98 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 19.80%	
17) Phenol-d6 (surr)	6.69	99	213226	2.03 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 20.30%	
32) Nitrobenzene-d5 (surr)	8.04	128	76748	2.21 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 22.10%	
53) 2-Fluorobiphenyl (surr)	10.87	172	340641	2.14 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 21.40%	
54) 2,4,6-Tribromophenol (surr	13.20	330	31053	1.88 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 18.80%	
92) 4-Terphenyl-d14 (surr)	16.91	244	292162	1.95 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 19.50%	
Target Compounds					Qvalue
2) Pyridine	3.88	79	51443	0.67 ug/mL#	49
3) N-Nitrosodimethylamine	3.80	74	90758	2.03 ug/mL	93
4) Phenol	6.71	94	243421	2.08 ug/mL	98
5) Bis(2-chloroethyl)ether	6.85	93	179275	1.92 ug/mL	99
6) 2-Chlorophenol	6.91	128	176016	2.01 ug/mL	99
7) Benzyl Alcohol	7.43	108	119587	1.98 ug/mL	96
8) 1,3-Dichlorobenzene	7.13	146	174567	2.04 ug/mL	97
9) 1,4-Dichlorobenzene	7.24	146	180498	2.05 ug/mL	99
10) 1,2-Dichlorobenzene	7.46	146	162716	2.07 ug/mL	96
11) 2-Methylphenol	7.60	107	145543	2.01 ug/mL	91
12) 3-, 4-Methylphenol	7.82	107	206115	1.95 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.64	45	219249	1.98 ug/mL	98
14) N-Nitrosodi-n-propylamine	7.84	70	108415	1.91 ug/mL#	93
15) Hexachloroethane	7.96	117	69849	1.98 ug/mL	98
19) Nitrobenzene	8.07	77	207503	2.11 ug/mL	98
20) Isophorone	8.44	82	297462	2.00 ug/mL	99
21) 2-Nitrophenol	8.56	139	115035	2.63 ug/mL	98
22) 2,4-Dimethylphenol	8.64	122	140986	2.17 ug/mL	94
23) Benzoic Acid	8.75	122	68181	1.63 ug/mL	96
24) Bis(2-chloroethoxy)methane	8.79	93	211607	2.22 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.92	162	139924	2.16	ug/mL	98
26)	1,2,4-Trichlorobenzene	9.06	180	150388	2.17	ug/mL	98
27)	Naphthalene	9.17	128	458539	2.12	ug/mL	99
28)	4-Chloroaniline	9.28	127	88865m	2.53	ug/mL	
29)	Hexachlorobutadiene	9.39	225	95054	2.21	ug/mL	96
30)	4-Chloro-3-methylphenol	10.05	107	157067	2.03	ug/mL	98
31)	2-Methylnaphthalene	10.27	142	336656	2.18	ug/mL	97
34)	Hexachlorocyclopentadiene	10.53	237	33607	1.65	ug/mL	97
35)	2,4,6-Trichlorophenol	10.73	196	103723	2.07	ug/mL	95
36)	2,4,5-Trichlorophenol	10.77	196	106753	2.08	ug/mL	94
37)	2-Chloronaphthalene	11.04	162	299422	2.17	ug/mL	95
38)	2-Nitroaniline	11.21	65	103102	2.04	ug/mL	95
39)	3-Nitroaniline	11.89	138	37233	4.44	ug/mL#	91
40)	1-Methylnaphthalene	10.42	142	299835	2.16	ug/mL	99
41)	Dimethylphthalate	11.54	163	350461	2.10	ug/mL	99
42)	Acenaphthylene	11.69	152	403481	2.28	ug/mL	100
43)	2,6-Dinitrotoluene	11.62	165	74754	2.05	ug/mL	98
44)	Acenaphthene	11.98	153	268859	2.14	ug/mL	99
45)	2,4-Dinitrophenol	12.07	184	40881	2.01	ug/mL#	72
46)	4-Nitrophenol	12.16	109	44426	1.90	ug/mL	85
47)	Dibenzofuran	12.27	168	440303	2.19	ug/mL	100
48)	2,4-Dinitrotoluene	12.27	165	97634	2.14	ug/mL	90
49)	Fluorene	12.81	166	318341	2.12	ug/mL	99
50)	Diethylphthalate	12.68	149	322116	2.11	ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.83	204	170104	2.21	ug/mL	96
52)	4-Nitroaniline	12.87	138	38013	2.79	ug/mL#	66
56)	4,6-Dinitro-2-methylphenol	12.91	198	56387	1.91	ug/mL	91
57)	Diphenylamine	13.03	169	191914	2.77	ug/mL	97
58)	4-bromophenyl phenyl ether	13.62	248	89293	2.15	ug/mL	96
59)	Hexachlorobenzene	13.70	284	89393	2.13	ug/mL	95
60)	Pentachlorophenol	14.02	266	58338	1.95	ug/mL	97
61)	Phenanthrene	14.35	178	432366	2.11	ug/mL	94
62)	Carbazole	14.70	167	350461	4.39	ug/mL	97
63)	Anthracene	14.43	178	399975	2.11	ug/mL	99
64)	Azobenzene	13.08	77	377403	2.05	ug/mL	99
65)	Di-n-Butylphthalate	15.33	149	521384	2.16	ug/mL	99
66)	Fluoranthene	16.26	202	459492	2.21	ug/mL	98
67)	alpha-BHC	13.63	183	70292	2.16	ug/mL	94
68)	beta-BHC	13.96	181	55965	2.11	ug/mL	97
69)	gamma-BHC	14.11	183	58174	2.08	ug/mL	96
70)	delta-BHC	14.47	183	54565	2.06	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

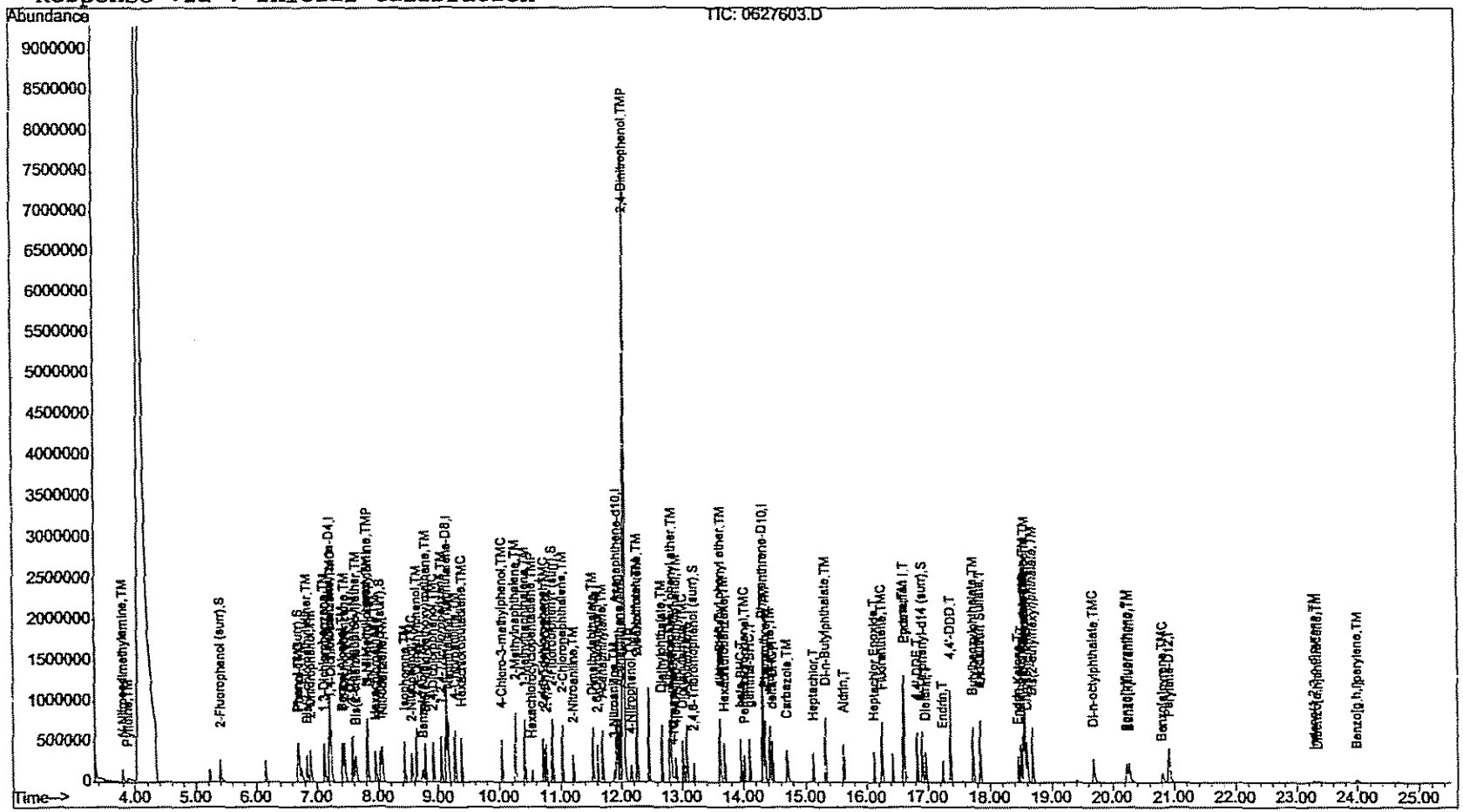
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	Heptachlor	15.13	100	65159	2.05	ug/mL	100
72)	Aldrin	15.62	66	75787	2.11	ug/mL	97
73)	Heptachlor Epoxide	16.13	353	23009	2.18	ug/mL	91
74)	Endosulfan I	16.62	195	19818	2.44	ug/mL#	71
75)	4,4'-DDE	16.84	246	107024	2.20	ug/mL	99
76)	Dieldrin	16.96	79	97896	2.14	ug/mL	100
77)	Endrin	17.25	263	16090	2.15	ug/mL	99
78)	Endosulfan II	0.00	30	0	N.D.		
79)	4,4'-DDD	17.37	235	183602	2.26	ug/mL#	97
80)	Endosulfan Sulfate	17.84	272	24552	2.82	ug/mL	95
81)	4,4'-DDT	17.85	235	137028	2.19	ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.		
83)	Endrin Ketone	18.46	317	17546	2.48	ug/mL	88
84)	Methoxychlor	18.50	227	273661	2.32	ug/mL	98
86)	Pyrene	16.61	202	446562	1.98	ug/mL	99
87)	Butylbenzylphthalate	17.73	149	209087	2.04	ug/mL	97
88)	Benzo[a]anthracene	18.55	228	301467	1.96	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.54	252	27196	1.32	ug/mL	96
90)	Chrysene	18.60	228	303617	2.03	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.69	149	267222	1.96	ug/mL	99
94)	Di-n-octylphthalate	19.68	149	362768	1.66	ug/mL	100
95)	Benzo[b]fluoranthene	20.24	252	189499	1.62	ug/mL#	97
96)	Benzo[k]fluoranthene	20.28	252	267071	2.20	ug/mL	97
97)	Benzo[a]pyrene	20.81	252	149547	1.65	ug/mL#	92
98)	Indeno(1,2,3-c,d)pyrene	23.29	276	39486	0.83	ug/mL#	49
99)	Dibenzo[a,h]anthracene	23.35	278	40441m	0.99	ug/mL	
100)	Benzo[g,h,i]perylene	23.99	276	87771m	1.61	ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: 8270.RES

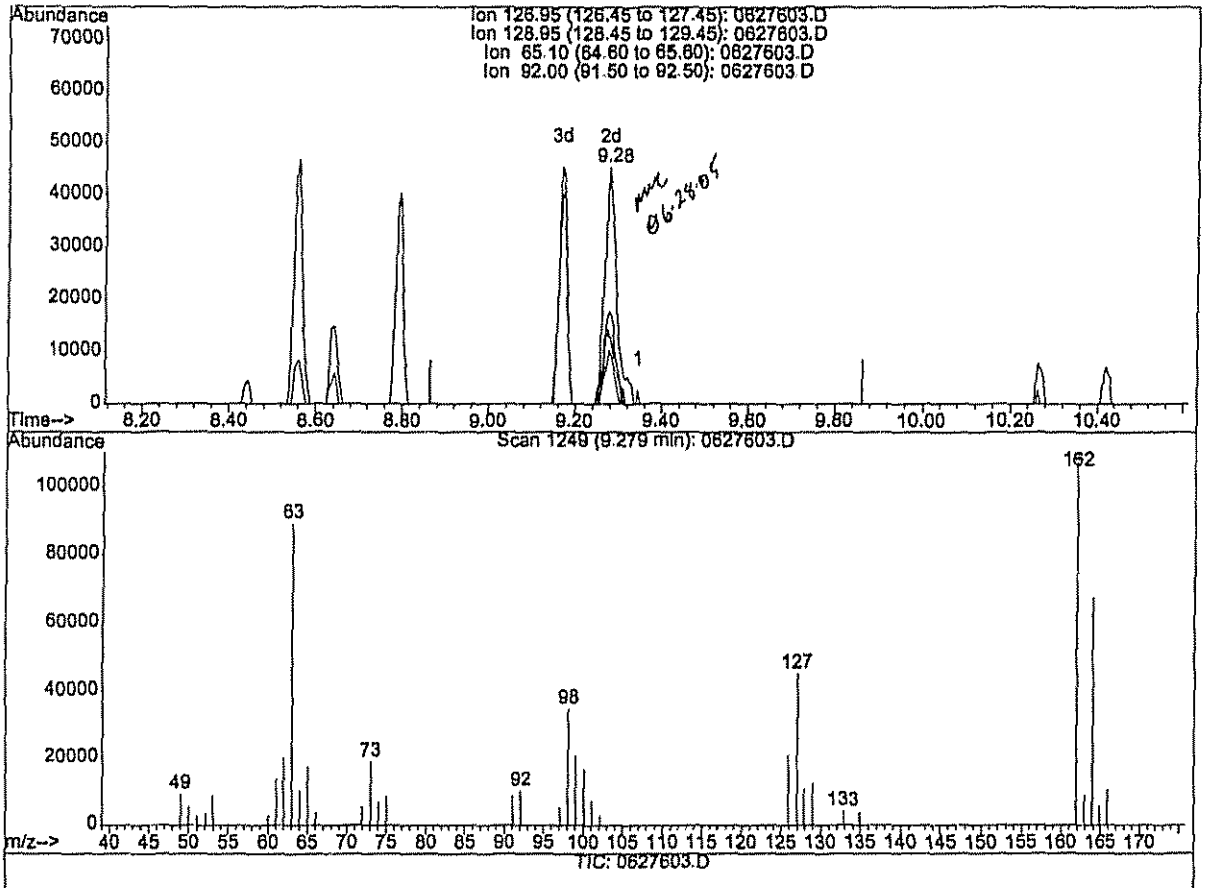
Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:03 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration



(28) 4-Chloroaniline (TM)

9.28min 2.53ug/mL m

response 88865

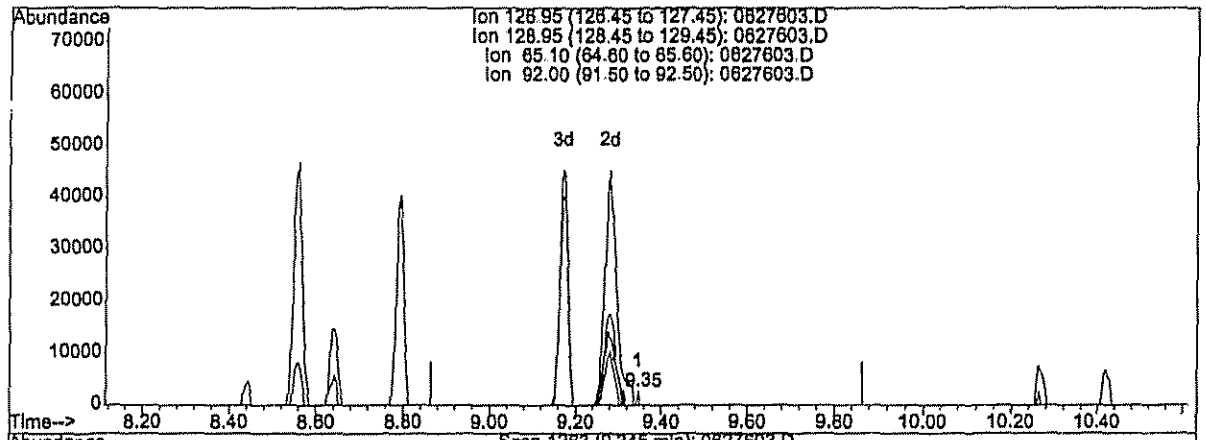
Ion	Exp%	Act%
126.95	100	100
128.95	31.50	27.63
65.10	35.90	38.54
92.00	20.00	22.73

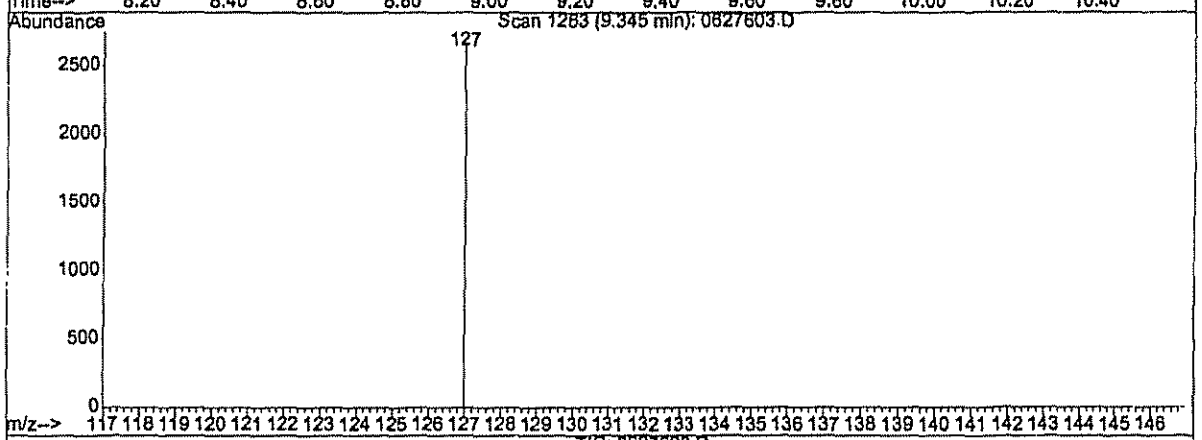
0627603.D 8270.M Tue Jun 28 11:03:39 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:03 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration





TIC: 0627603.D

(28) 4-Chloroaniline (TM)

9.35min 0.02ug/mL

response 756

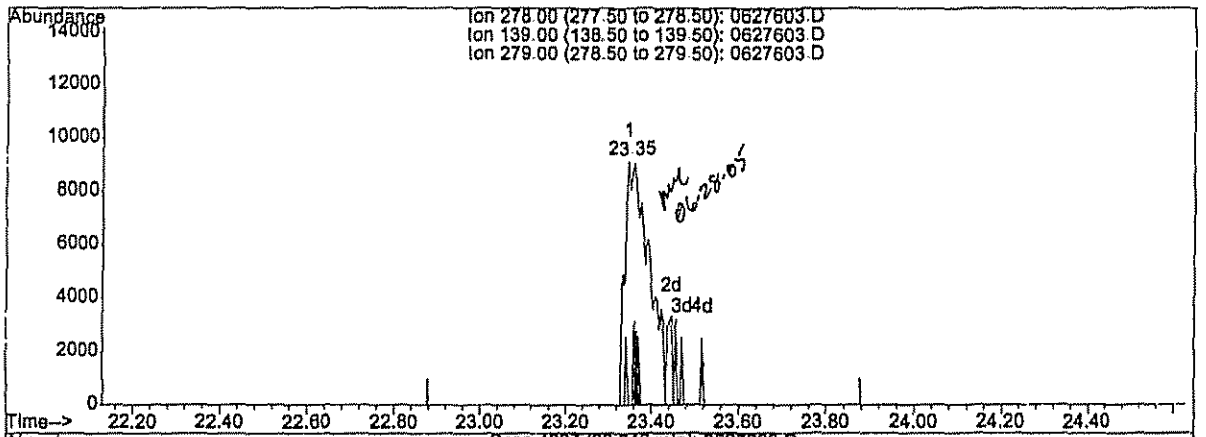
Ion	Exp%	Act%
126.95	100	100
128.95	31.50	0.00#
65.10	35.90	0.00#
92.00	20.00	0.00#

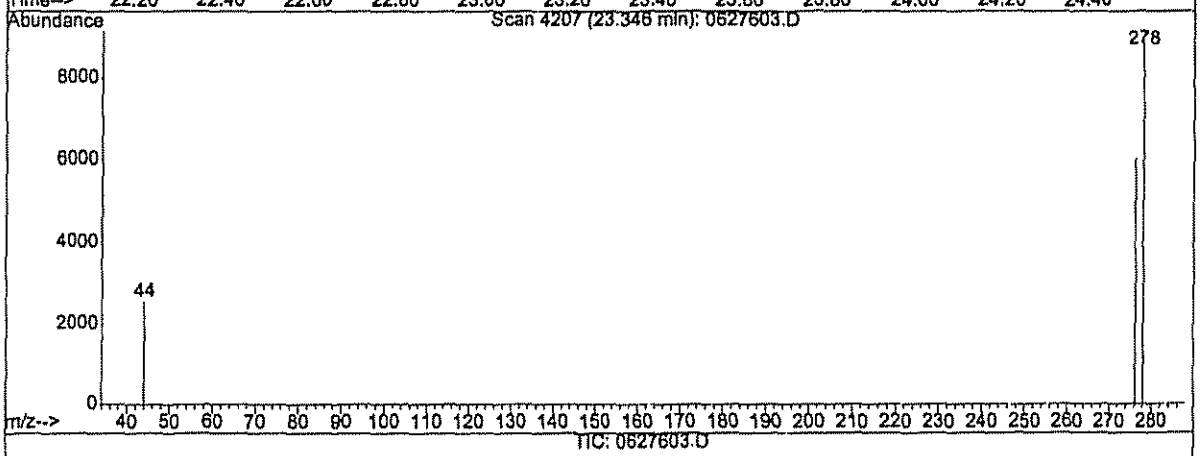
0627603.D 8270.M Tue Jun 28 11:03:35 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration





TIC: 0627603.D

(99) Dibenzo[a,h]anthracene (TM)

23.35min 0.99ug/mL m

response 40441

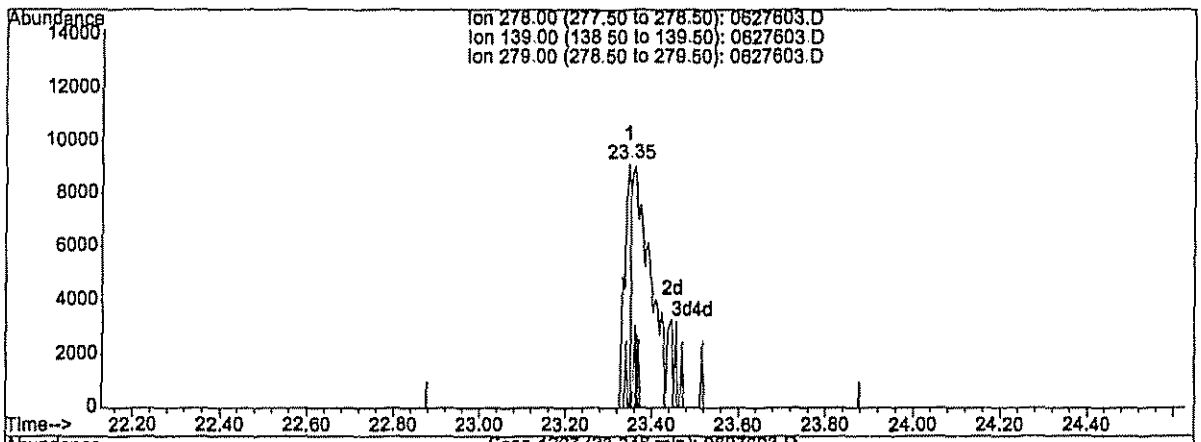
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	0.00#
279.00	22.30	0.00#
0.00	0.00	0.00

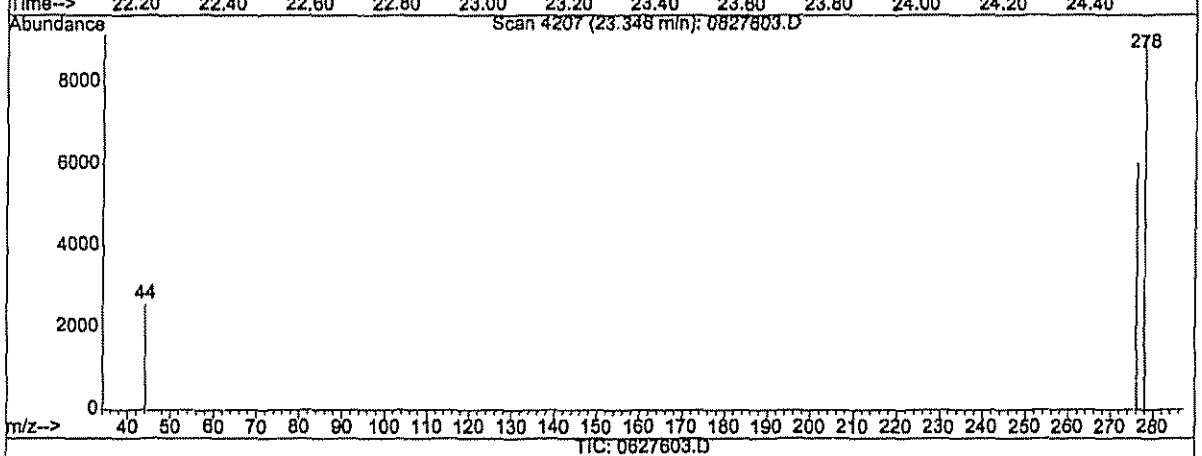
0627603.D 8270.M Tue Jun 28 11:04:32 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:03 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration





TIC: 0627603.D

(99) Dibenzo[a,h]anthracene (TM)

23.35min 0.24ug/mL

response 9804

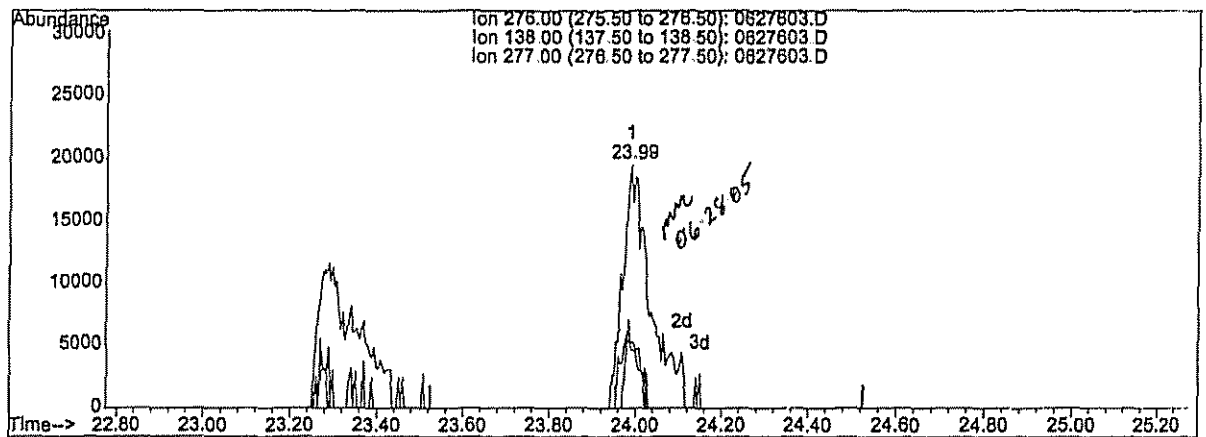
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	0.00#
279.00	22.30	0.00#
0.00	0.00	0.00

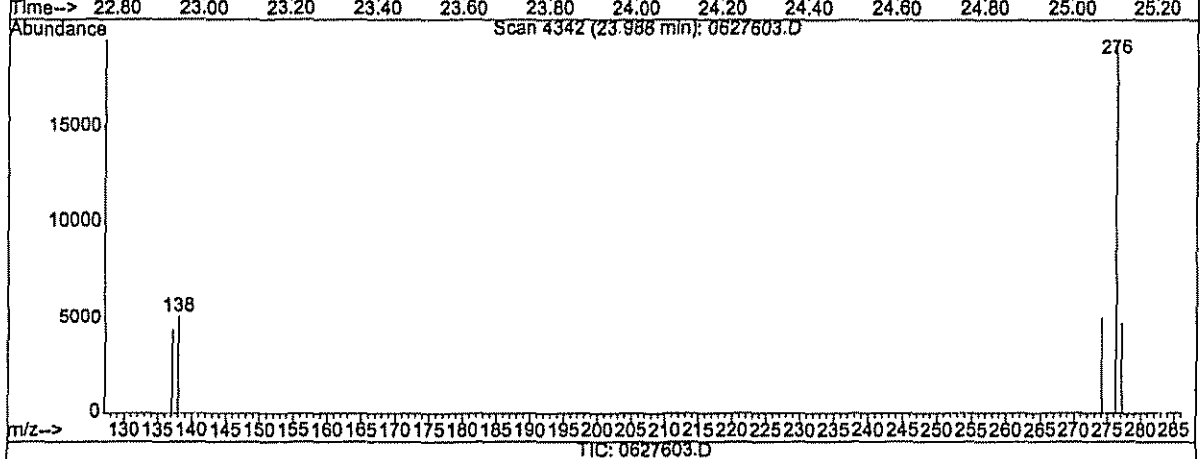
0627603.D 8270.M Tue Jun 28 11:04:26 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration





(100) Benzo[g,h,i]perylene (TM)

23.99min 1.61ug/mL m

response 87771

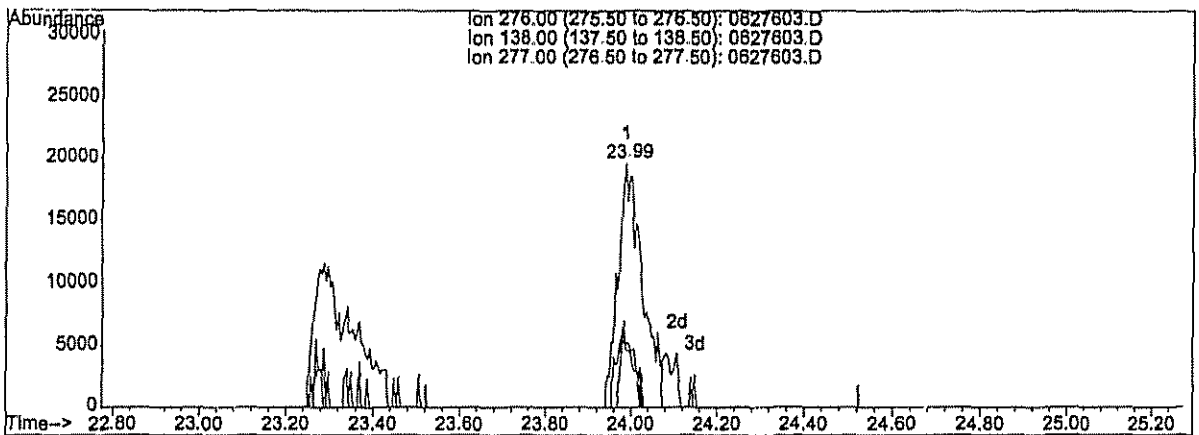
Ion	Exp%	Act%
276.00	100	100
138.00	24.60	26.13
277.00	24.50	24.31
0.00	0.00	0.00

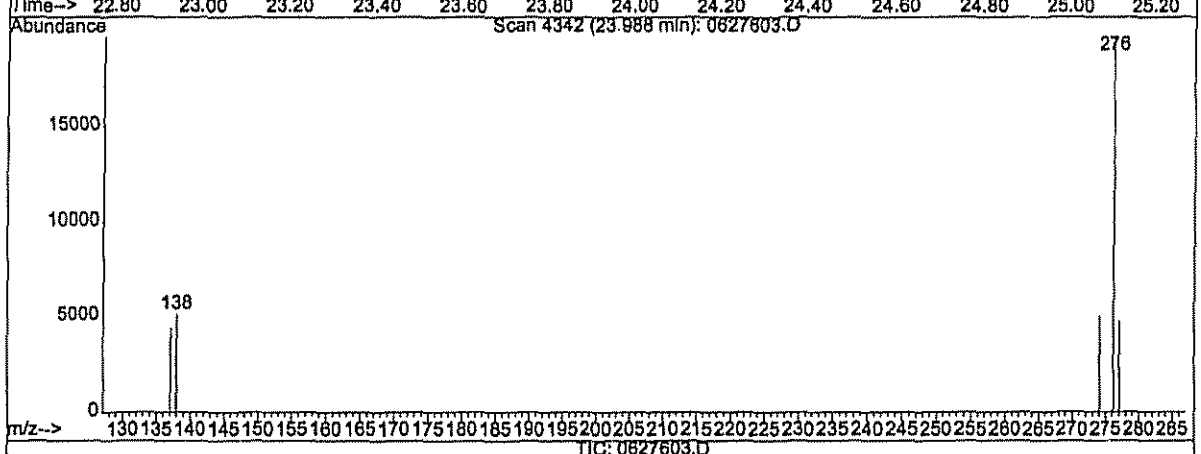
0627603.D 8270.M Tue Jun 28 11:04:39 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627603.D Vial: 8
Acq On : 27 Jun 2005 5:36 pm Operator: MRC
Sample : SVCAL2 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:04 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:02:52 2005
Response via : Multiple Level Calibration





TIC: 0627603.D

(100) Benzo[g,h,i]perylene (TM)

23 99min 1.43ug/mL

response 78170

Ion	Exp%	Act%
276.00	100	100
138.00	24.60	26.13
277.00	24.50	24.31
0.00	0.00	0.00

0627603.D 8270.M Tue Jun 28 11:04:36 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mmc 06-28-04

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.21	152	237091	4.00 ug/mL	0.00
18) Naphthalene-D8	9.14	136	947479	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.93	164	532810	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.31	188	764446	4.00 ug/mL	0.00
85) Chrysene-D12	18.56	240	535421	4.00 ug/mL	0.00
93) Perylene-D12	20.92	264	363514	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.40	112	247616	4.19 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 41.90%	
17) Phenol-d6 (surr)	6.69	99	377744	3.99 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 39.90%	
32) Nitrobenzene-d5 (surr)	8.04	128	137736	4.17 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 41.70%	
53) 2-Fluorobiphenyl (surr)	10.87	172	615892	4.21 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 42.10%	
54) 2,4,6-Tribromophenol (surr	13.20	330	61518	4.19 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 41.90%	
92) 4-Terphenyl-d14 (surr)	16.91	244	518823	3.70 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 37.00%	
Target Compounds					Qvalue
2) Pyridine	3.83	79	136047	2.53 ug/mL	95
3) N-Nitrosodimethylamine	3.80	74	157677	3.91 ug/mL	99
4) Phenol	6.71	94	435302	4.09 ug/mL	98
5) Bis(2-chloroethyl)ether	6.85	93	336531	4.05 ug/mL	99
6) 2-Chlorophenol	6.91	128	314470	4.00 ug/mL	93
7) Benzyl Alcohol	7.43	108	216991	4.01 ug/mL	98
8) 1,3-Dichlorobenzene	7.13	146	318927	4.13 ug/mL	98
9) 1,4-Dichlorobenzene	7.24	146	326128	4.10 ug/mL	94
10) 1,2-Dichlorobenzene	7.46	146	293277	4.12 ug/mL	96
11) 2-Methylphenol	7.60	107	257871	3.96 ug/mL	96
12) 3-, 4-Methylphenol	7.83	107	374410	3.97 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.64	45	396806	3.99 ug/mL	99
14) N-Nitrosodi-n-propylamine	7.84	70	195524	3.88 ug/mL	97
15) Hexachloroethane	7.96	117	126183	3.99 ug/mL	96
19) Nitrobenzene	8.07	77	371355	4.02 ug/mL	96
20) Isophorone	8.44	82	544285	3.95 ug/mL	97
21) 2-Nitrophenol	8.56	139	176057	4.03 ug/mL	96
22) 2,4-Dimethylphenol	8.64	122	242416	3.95 ug/mL	98
23) Benzoic Acid	8.78	122	143632	3.89 ug/mL	96
24) Bis(2-chloroethoxy)methane	8.79	93	364498	4.02 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0627604.D 8270.M Tue Jun 28 11:29:26 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.92	162	252419	4.13 ug/mL	95
26)	1,2,4-Trichlorobenzene	9.06	180	264656	4.04 ug/mL	97
27)	Naphthalene	9.17	128	836669	4.12 ug/mL	98
28)	4-Chloroaniline	9.29	127	119143	3.44 ug/mL	96
29)	Hexachlorobutadiene	9.39	225	166789	4.08 ug/mL	93
30)	4-Chloro-3-methylphenol	10.05	107	290966	4.05 ug/mL	99
31)	2-Methylnaphthalene	10.27	142	590915	4.04 ug/mL	98
34)	Hexachlorocyclopentadiene	10.54	237	68309	3.88 ug/mL	91
35)	2,4,6-Trichlorophenol	10.73	196	191502	4.20 ug/mL	97
36)	2,4,5-Trichlorophenol	10.77	196	198614	4.24 ug/mL	97
37)	2-Chloronaphthalene	11.04	162	535905	4.21 ug/mL	99
38)	2-Nitroaniline	11.22	65	196061	4.27 ug/mL	99
39)	3-Nitroaniline	11.89	138	48598	4.92 ug/mL#	83
40)	1-Methylnaphthalene	10.42	142	532346	4.16 ug/mL	99
41)	Dimethylphthalate	11.54	163	625334	4.10 ug/mL	100
42)	Acenaphthylene	11.70	152	717092	4.33 ug/mL	98
43)	2,6-Dinitrotoluene	11.62	165	138691	4.18 ug/mL	97
44)	Acenaphthene	11.98	153	475364	4.12 ug/mL	100
45)	2,4-Dinitrophenol	12.07	184	73544	3.99 ug/mL	93
46)	4-Nitrophenol	12.17	109	81954	3.93 ug/mL	95
47)	Dibenzofuran	12.27	168	768637	4.13 ug/mL	100
48)	2,4-Dinitrotoluene	12.26	165	174222	4.16 ug/mL#	84
49)	Fluorene	12.81	166	572298	4.16 ug/mL	94
50)	Diethylphthalate	12.69	149	580706	4.15 ug/mL	100
51)	4-Chlorophenyl phenyl ethe	12.83	204	299039	4.19 ug/mL	97
52)	4-Nitroaniline	12.87	138	88169m	6.52 ug/mL	
56)	4,6-Dinitro-2-methylphenol	12.91	198	109712	4.16 ug/mL	96
57)	Diphenylamine	13.02	169	329511	4.79 ug/mL	97
58)	4-bromophenyl phenyl ether	13.62	248	163729	4.27 ug/mL	97
59)	Hexachlorobenzene	13.70	284	159915	4.14 ug/mL	98
60)	Pentachlorophenol	14.02	266	111977	4.16 ug/mL	99
61)	Phenanthrene	14.35	178	782259	4.16 ug/mL	98
62)	Carbazole	14.70	167	558863	5.96 ug/mL#	95
63)	Anthracene	14.43	178	733263	4.21 ug/mL	98
64)	Azobenzene	13.08	77	691720	4.12 ug/mL	99
65)	Di-n-Butylphthalate	15.33	149	942816	4.23 ug/mL	99
66)	Fluoranthene	16.26	202	812626	4.21 ug/mL	98
67)	alpha-BHC	13.63	183	124386	4.15 ug/mL	95
68)	beta-BHC	13.96	181	106662	4.39 ug/mL	98
69)	gamma-BHC	14.11	183	105958	4.15 ug/mL	99
70)	delta-BHC	14.47	183	98205	4.07 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Initial Calibration
DataAcq Meth : 8270

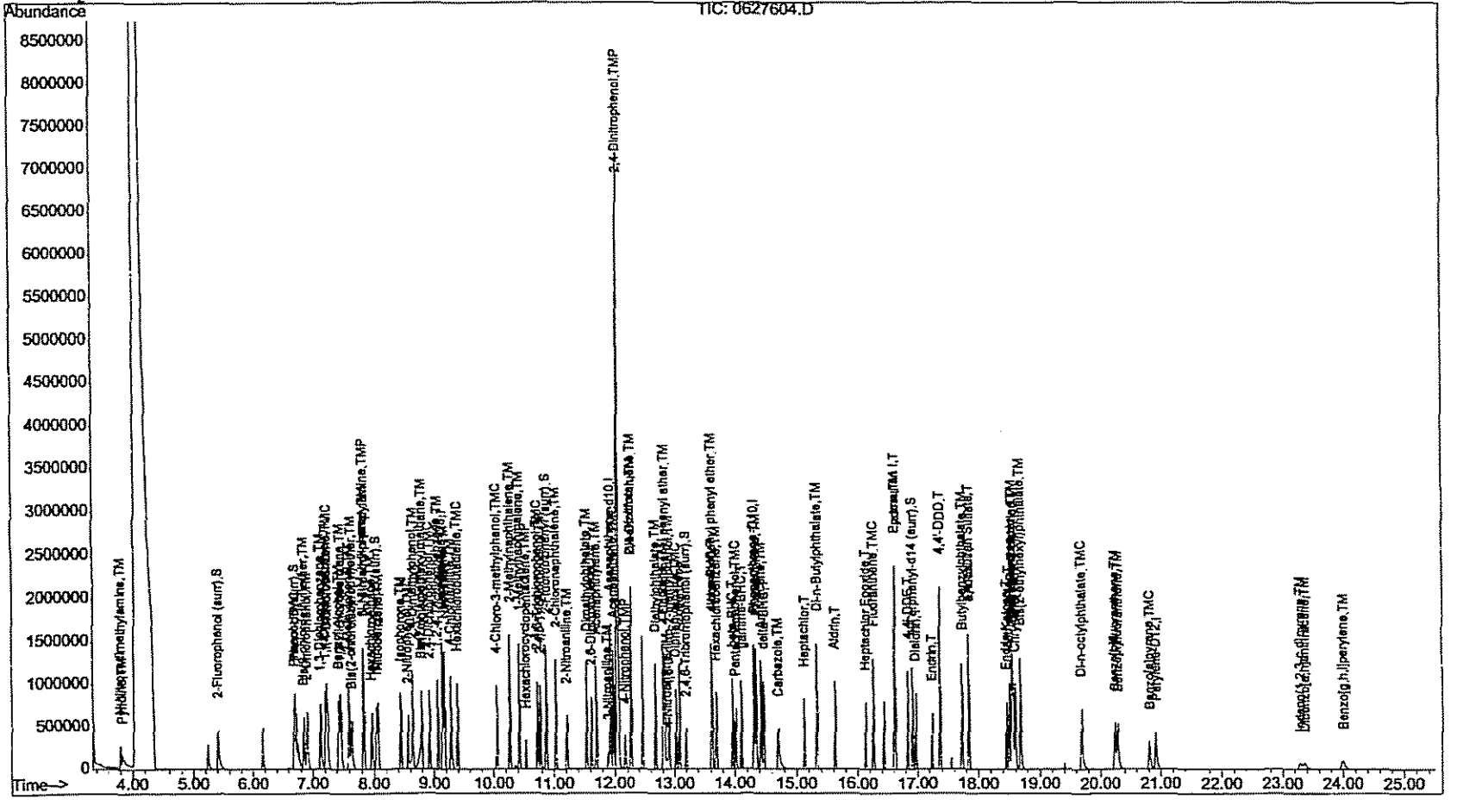
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	116760	4.03 ug/mL	100
72)	Aldrin	15.62	66	137167	4.16 ug/mL	96
73)	Heptachlor Epoxide	16.13	353	40941	4.19 ug/mL	99
74)	Endosulfan I	16.62	195	37135	4.79 ug/mL	95
75)	4,4'-DDE	16.84	246	193008	4.28 ug/mL	100
76)	Dieldrin	16.97	79	179522	4.26 ug/mL	99
77)	Endrin	17.25	263	29976	4.34 ug/mL	92
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.37	235	324918	4.28 ug/mL	100
80)	Endosulfan Sulfate	17.84	272	42717	4.91 ug/mL	95
81)	4,4'-DDT	17.85	235	252357	4.35 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.46	317	32904	4.85 ug/mL	92
84)	Methoxychlor	18.51	227	500543	4.51 ug/mL	99
86)	Pyrene	16.62	202	779354	3.68 ug/mL	96
87)	Butylbenzylphthalate	17.74	149	382572	3.94 ug/mL	96
88)	Benzo[a]anthracene	18.54	228	595484	4.14 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.54	252	54794	3.09 ug/mL#	98
90)	Chrysene	18.60	228	572876	4.06 ug/mL	100
91)	Bis(2-ethylhexyl)phthalate	18.69	149	507386	3.98 ug/mL	99
94)	Di-n-octylphthalate	19.69	149	744616	3.58 ug/mL	100
95)	Benzo[b]fluoranthene	20.24	252	431818	3.89 ug/mL	99
96)	Benzo[k]fluoranthene	20.28	252	480411	3.88 ug/mL	99
97)	Benzo[a]pyrene	20.81	252	348546	4.04 ug/mL	96
98)	Indeno(1,2,3-c,d)pyrene	23.28	276	111520	2.75 ug/mL	92
99)	Dibenzo[a,h]anthracene	23.36	278	125125m	3.52 ug/mL	
100)	Benzo[g,h,i]perylene	24.00	276	209591m	4.05 ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

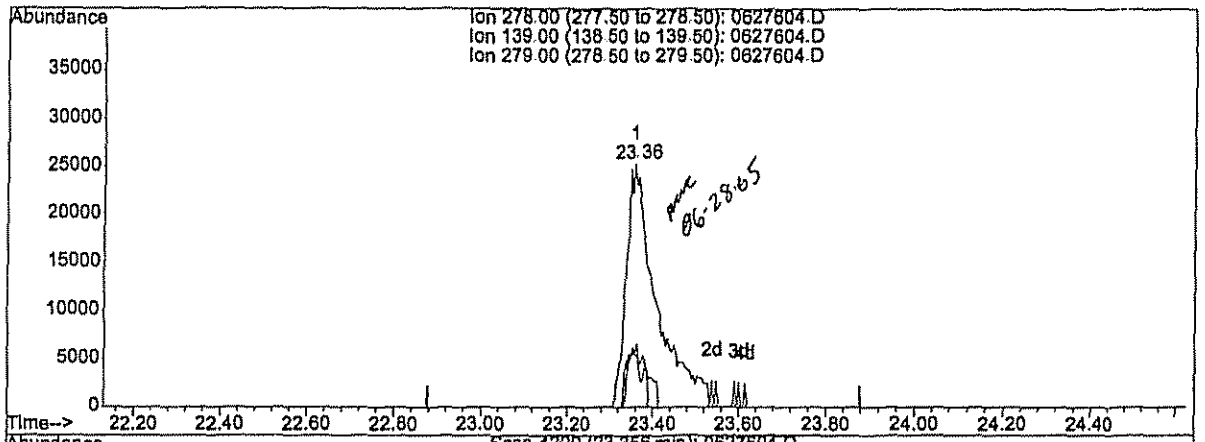


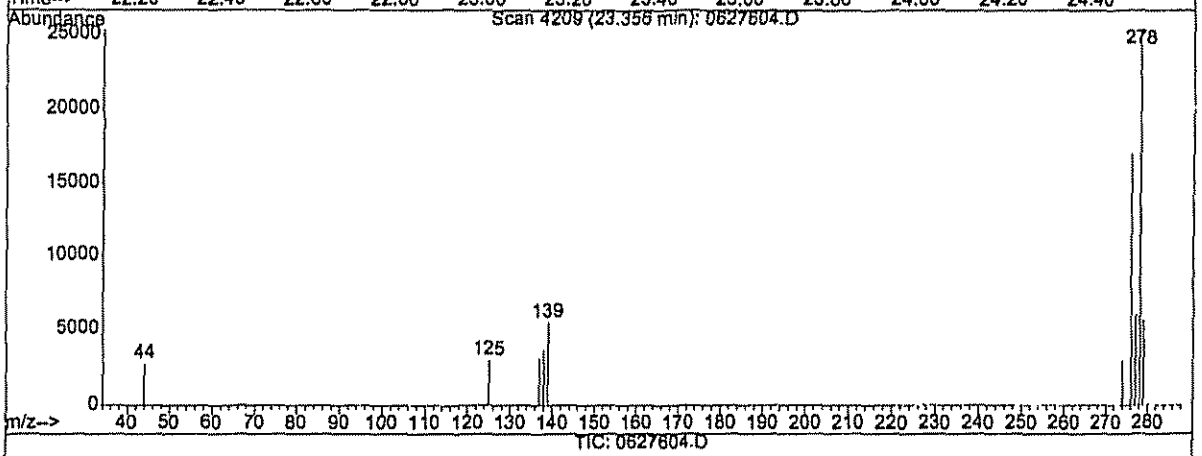
0627604.D 8270.M Tue Jun 28 11:29:32 2005 ENV Page 4

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Multiple Level Calibration





TIC: 0627604.D

(99) Dibenzo[a,h]anthracene (TM)

23.36min 3.52ug/mL m

response 125125

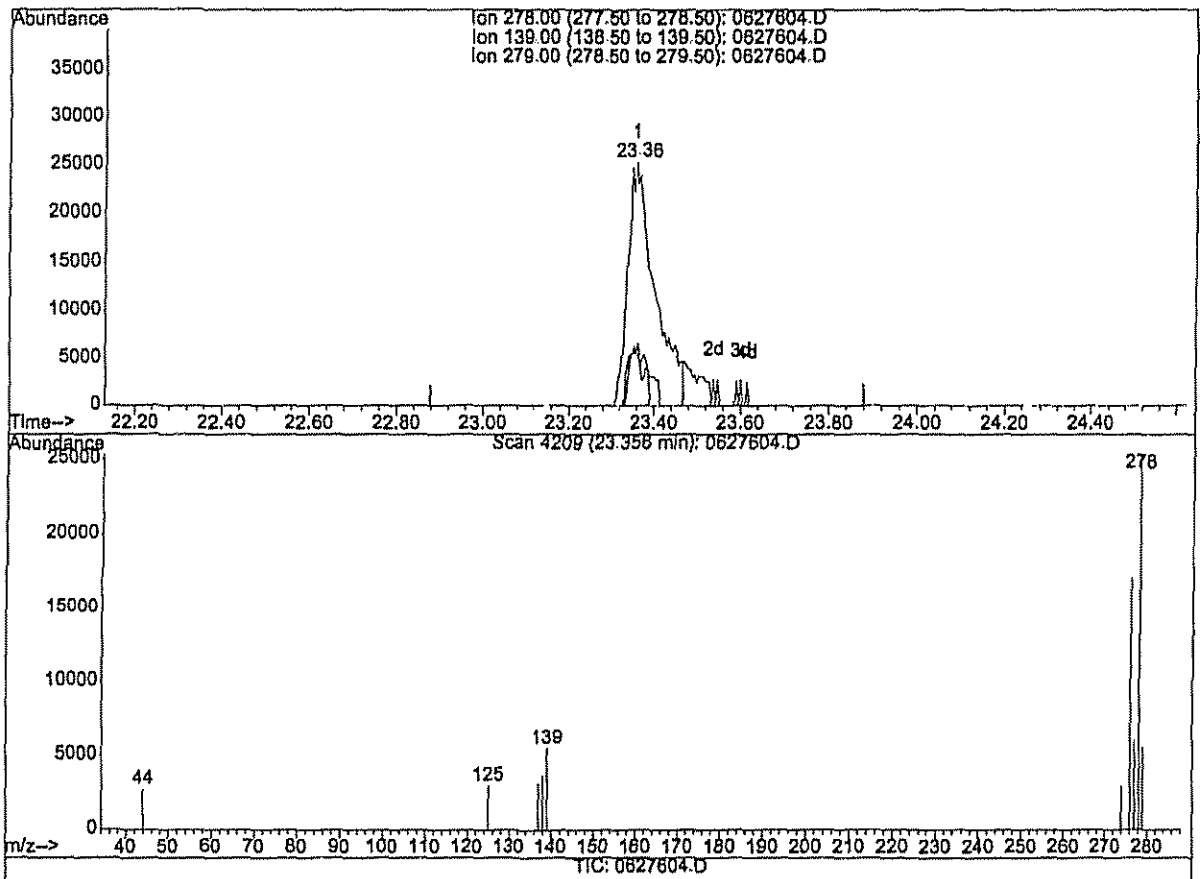
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	21.73
279.00	22.30	22.15
0.00	0.00	0.00

0627604.D 8270.M Tue Jun 28 11:06:25 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:05 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Multiple Level Calibration



(99) Dibenzo[a,h]anthracene (TM)

23.36min 3.14ug/mL

response 111549

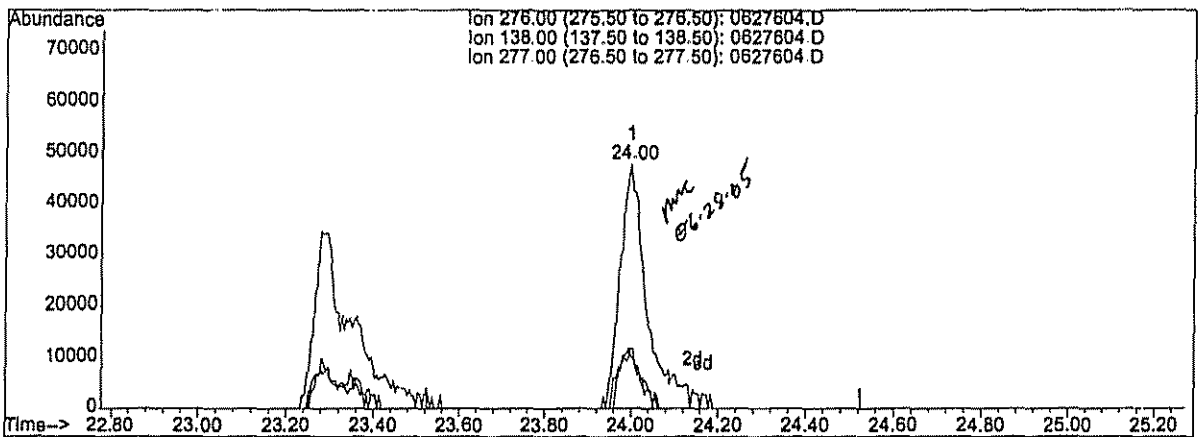
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	21.73
279.00	22.30	22.15
0.00	0.00	0.00

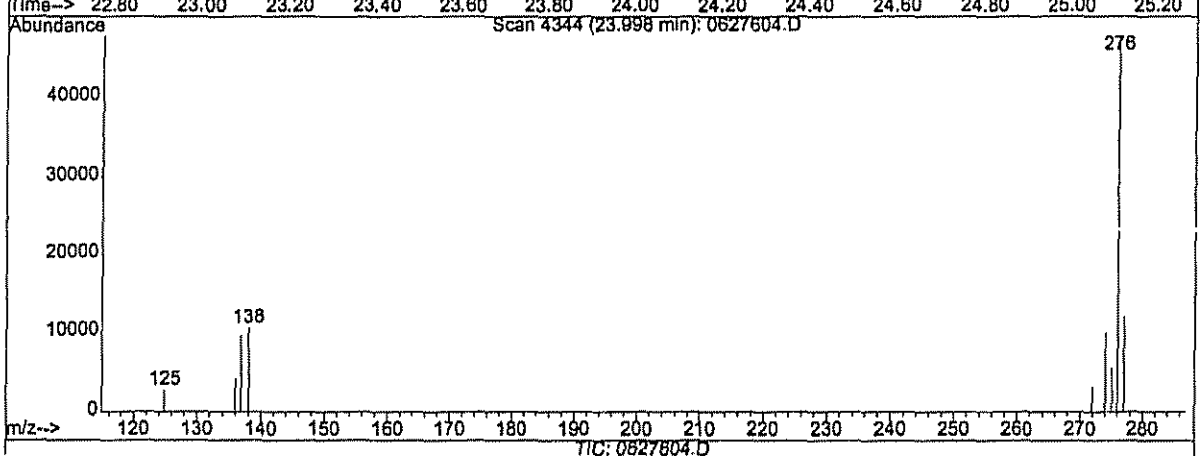
0627604.D 8270.M Tue Jun 28 11:06:22 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Multiple Level Calibration





TIC: 0627604.D

(100) Benzo[g,h,i]perylene (TM)

24.00min 4.05ug/mL m

response 209591

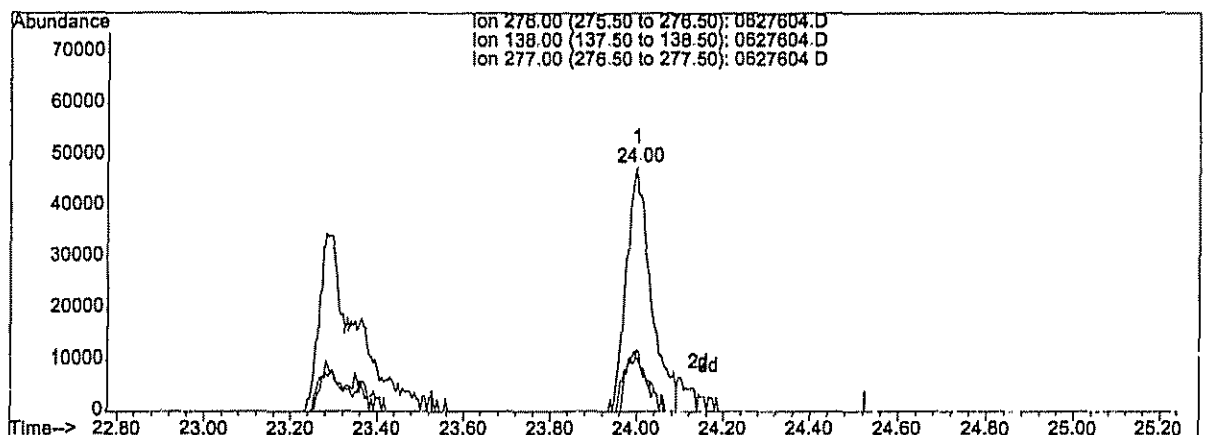
Ion	Exp%	Act%
276.00	100	100
138.00	24.60	21.93
277.00	24.50	25.08
0.00	0.00	0.00

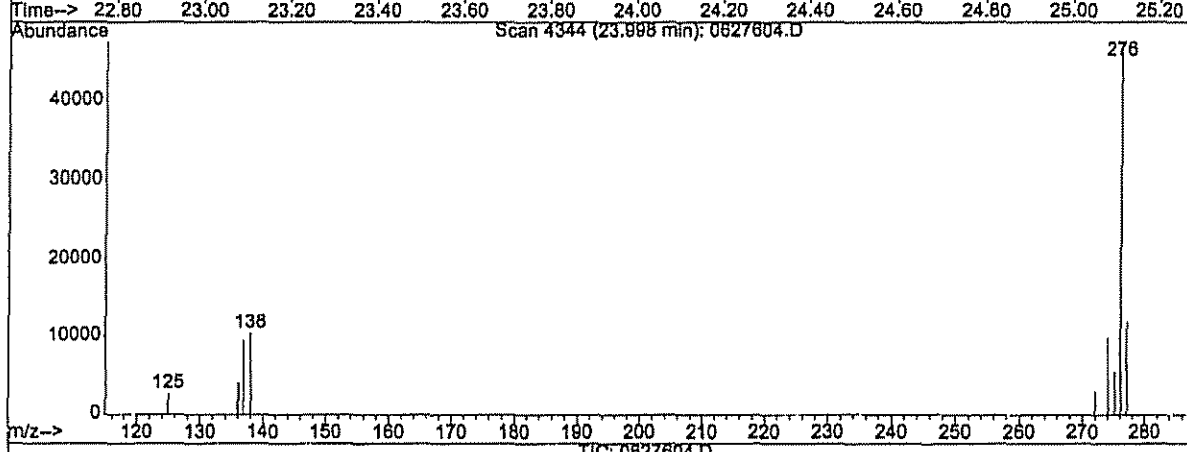
0627604.D 8270.M Tue Jun 28 11:06:32 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627604.D Vial: 7
Acq On : 27 Jun 2005 6:11 pm Operator: MRC
Sample : SVCAL4 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:04:54 2005
Response via : Multiple Level Calibration





TIC: 0627604.D

(100) Benzo[g,h,i]perylene (TM)

24.00min 3.67ug/mL

response 189760

Ion	Exp%	Act%
276.00	100	100
138.00	24.60	21.93
277.00	24.50	25.08
0.00	0.00	0.00

0627604.D 8270.M Tue Jun 28 11:06:29 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 06-28-04

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.21	152	230121	4.00 ug/mL	0.00
18) Naphthalene-D8	9.14	136	915686	4.00 ug/mL	0.00
33) Acenaphthene-d10	11.93	164	520235	4.00 ug/mL	0.00
55) Phenanthrene-D10	14.31	188	762528	4.00 ug/mL	0.00
85) Chrysene-D12	18.56	240	556172	4.00 ug/mL	0.00
93) Perylene-D12	20.92	264	365075	4.00 ug/mL	0.00
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.41	112	356599	6.16 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 61.60%	
17) Phenol-d6 (surr)	6.69	99	567372	6.18 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 61.80%	
32) Nitrobenzene-d5 (surr)	8.04	128	205143	6.37 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 63.70%	
53) 2-Fluorobiphenyl (surr)	10.87	172	910104	6.30 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 63.00%	
54) 2,4,6-Tribromophenol (surr	13.20	330	95759	6.61 ug/mL	-0.01
Spiked Amount 10.000			Recovery	= 66.10%	
92) 4-Terphenyl-d14 (surr)	16.91	244	822079	5.73 ug/mL	-0.02
Spiked Amount 10.000			Recovery	= 57.30%	
Target Compounds					Qvalue
2) Pyridine	3.82	79	301071	6.34 ug/mL	85
3) N-Nitrosodimethylamine	3.81	74	240727	6.18 ug/mL	99
4) Phenol	6.71	94	651659	6.28 ug/mL	97
5) Bis(2-chloroethyl)ether	6.85	93	493832	6.11 ug/mL	98
6) 2-Chlorophenol	6.91	128	469018	6.15 ug/mL	99
7) Benzyl Alcohol	7.43	108	333619	6.35 ug/mL	94
8) 1,3-Dichlorobenzene	7.13	146	477487	6.32 ug/mL	98
9) 1,4-Dichlorobenzene	7.24	146	479912	6.19 ug/mL	98
10) 1,2-Dichlorobenzene	7.46	146	444232	6.39 ug/mL	96
11) 2-Methylphenol	7.60	107	394854	6.25 ug/mL	97
12) 3-, 4-Methylphenol	7.83	107	578629	6.33 ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.64	45	588238	6.10 ug/mL	98
14) N-Nitrosodi-n-propylamine	7.84	70	298691	6.15 ug/mL	97
15) Hexachloroethane	7.96	117	193495	6.31 ug/mL	98
19) Nitrobenzene	8.07	77	561802	6.29 ug/mL	98
20) Isophorone	8.44	82	835617	6.30 ug/mL	99
21) 2-Nitrophenol	8.56	139	254045	6.01 ug/mL	96
22) 2,4-Dimethylphenol	8.64	122	376654	6.37 ug/mL	96
23) Benzoic Acid	8.80	122	244758	6.89 ug/mL	96
24) Bis(2-chloroethoxy)methane	8.79	93	543849	6.20 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0627605.D 8270.M Tue Jun 28 11:29:38 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.92	162	382801	6.44 ug/mL	99
26)	1,2,4-Trichlorobenzene	9.06	180	398217	6.28 ug/mL	97
27)	Naphthalene	9.17	128	1250339	6.33 ug/mL	99
28)	4-Chloroaniline	9.29	127	187686	5.76 ug/mL#	95
29)	Hexachlorobutadiene	9.39	225	256336	6.46 ug/mL	96
30)	4-Chloro-3-methylphenol	10.05	107	456203	6.56 ug/mL	94
31)	2-Methylnaphthalene	10.27	142	886011	6.26 ug/mL	98
34)	Hexachlorocyclopentadiene	10.54	237	119217	6.97 ug/mL	95
35)	2,4,6-Trichlorophenol	10.73	196	297441	6.62 ug/mL	98
36)	2,4,5-Trichlorophenol	10.77	196	303218	6.55 ug/mL	98
37)	2-Chloronaphthalene	11.04	162	807166	6.42 ug/mL	97
38)	2-Nitroaniline	11.22	65	309182	6.81 ug/mL	99
39)	3-Nitroaniline	11.89	138	74961	7.43 ug/mL#	88
40)	1-Methylnaphthalene	10.42	142	805500	6.40 ug/mL	100
41)	Dimethylphthalate	11.54	163	965496	6.45 ug/mL	99
42)	Acenaphthylene	11.70	152	1082213	6.59 ug/mL	99
43)	2,6-Dinitrotoluene	11.62	165	216833	6.63 ug/mL	99
44)	Acenaphthene	11.98	153	721228	6.37 ug/mL	100
45)	2,4-Dinitrophenol	12.07	184	120102	6.68 ug/mL	98
46)	4-Nitrophenol	12.17	109	134772	6.64 ug/mL	99
47)	Dibenzofuran	12.27	168	1160341	6.35 ug/mL	99
48)	2,4-Dinitrotoluene	12.26	165	262978	6.38 ug/mL#	79
49)	Fluorene	12.81	166	873925	6.45 ug/mL	99
50)	Diethylphthalate	12.69	149	877386	6.38 ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.83	204	447060	6.35 ug/mL	98
52)	4-Nitroaniline	12.88	138	112504	7.57 ug/mL#	79
56)	4,6-Dinitro-2-methylphenol	12.91	198	185118	6.98 ug/mL	99
57)	Diphenylamine	13.03	169	493892	6.92 ug/mL	100
58)	4-bromophenyl phenyl ether	13.62	248	251083	6.48 ug/mL	99
59)	Hexachlorobenzene	13.70	284	238575	6.15 ug/mL	98
60)	Pentachlorophenol	14.02	266	176250	6.51 ug/mL	97
61)	Phenanthrene	14.35	178	1192573	6.31 ug/mL	99
62)	Carbazole	14.70	167	730590	7.11 ug/mL#	92
63)	Anthracene	14.43	178	1108385	6.31 ug/mL	99
64)	Azobenzene	13.09	77	1049278	6.23 ug/mL	100
65)	Di-n-Butylphthalate	15.33	149	1457488	6.48 ug/mL	99
66)	Fluoranthene	16.26	202	1271088	6.53 ug/mL	98
67)	alpha-BHC	13.63	183	195960	6.50 ug/mL	99
68)	beta-BHC	13.97	181	161692	6.54 ug/mL	99
69)	gamma-BHC	14.11	183	162836	6.35 ug/mL	99
70)	delta-BHC	14.47	183	153410	6.36 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Initial Calibration
DataAcq Meth : 8270

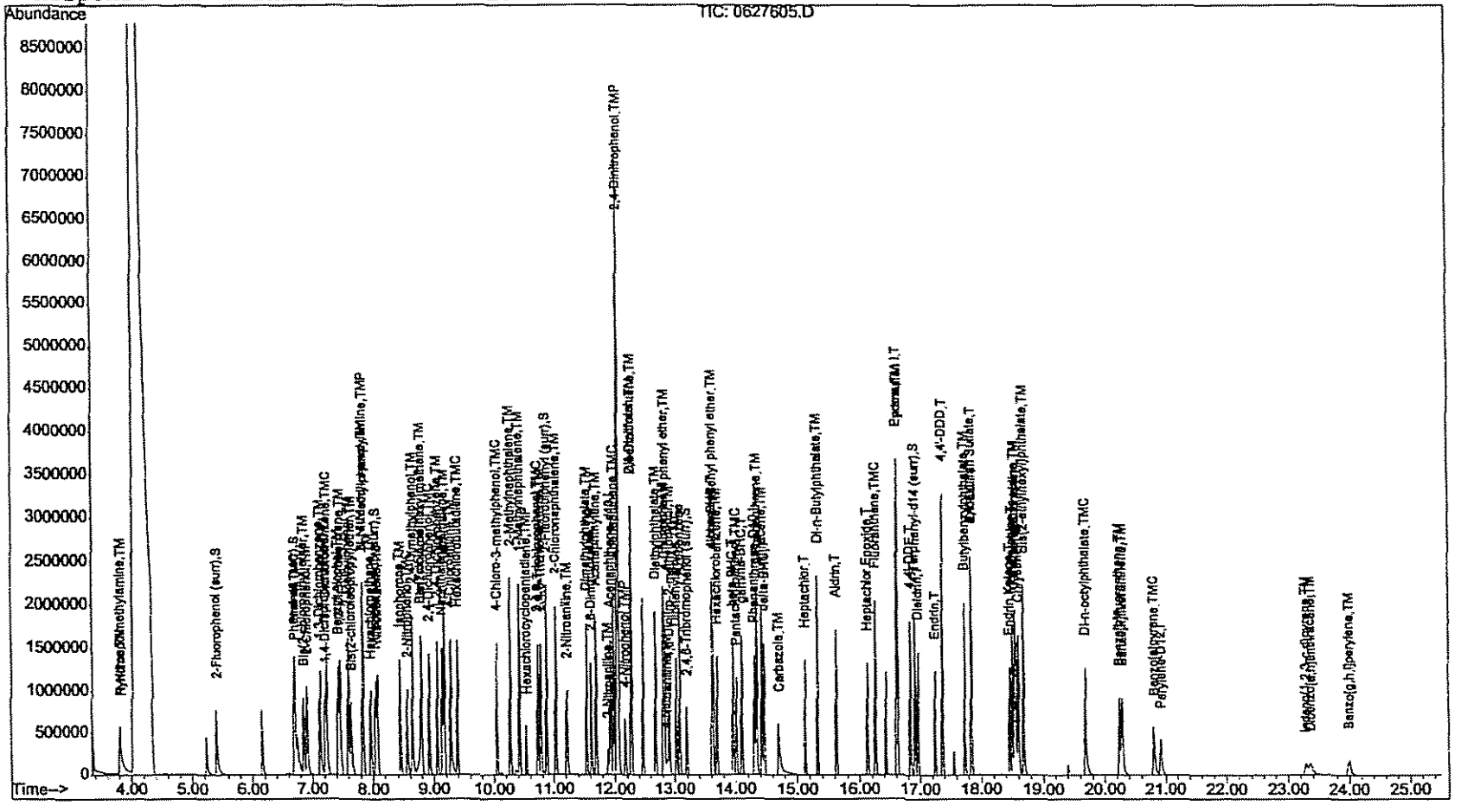
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	181145	6.26 ug/mL	100
72)	Aldrin	15.63	66	215875	6.51 ug/mL	99
73)	Heptachlor Epoxide	16.13	353	64764	6.59 ug/mL	99
74)	Endosulfan I	16.62	195	53063	6.60 ug/mL	95
75)	4,4'-DDE	16.84	246	296942	6.50 ug/mL	98
76)	Dieldrin	16.97	79	266844	6.27 ug/mL	99
77)	Endrin	17.25	263	47812	6.82 ug/mL	97
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.37	235	500743	6.52 ug/mL	100
80)	Endosulfan Sulfate	17.84	272	67677	7.46 ug/mL	98
81)	4,4'-DDT	17.85	235	393063	6.68 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.46	317	51406	7.29 ug/mL	100
84)	Methoxychlor	18.50	227	822453	7.25 ug/mL	99
86)	Pyrene	16.62	202	1226283	5.66 ug/mL	95
87)	Butylbenzylphthalate	17.74	149	595060	5.92 ug/mL	95
88)	Benzo[a]anthracene	18.54	228	936860	6.22 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.54	252	95664	5.44 ug/mL	91
90)	Chrysene	18.60	228	900573	6.12 ug/mL	97
91)	Bis(2-ethylhexyl)phthalate	18.68	149	789766	5.97 ug/mL	96
94)	Di-n-octylphthalate	19.68	149	1163012	5.69 ug/mL	100
95)	Benzo[b]fluoranthene	20.24	252	683622	6.17 ug/mL	96
96)	Benzo[k]fluoranthene	20.29	252	781245	6.32 ug/mL	99
97)	Benzo[a]pyrene	20.81	252	534919	6.16 ug/mL#	95
98)	Indeno(1,2,3-c,d)pyrene	23.29	276	222683	5.83 ug/mL	95
99)	Dibenzo[a,h]anthracene	23.36	278	234035m	6.72 ug/mL	
100)	Benzo[g,h,i]perylene	23.99	276	329489m	6.33 ug/mL	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: 8270.RES

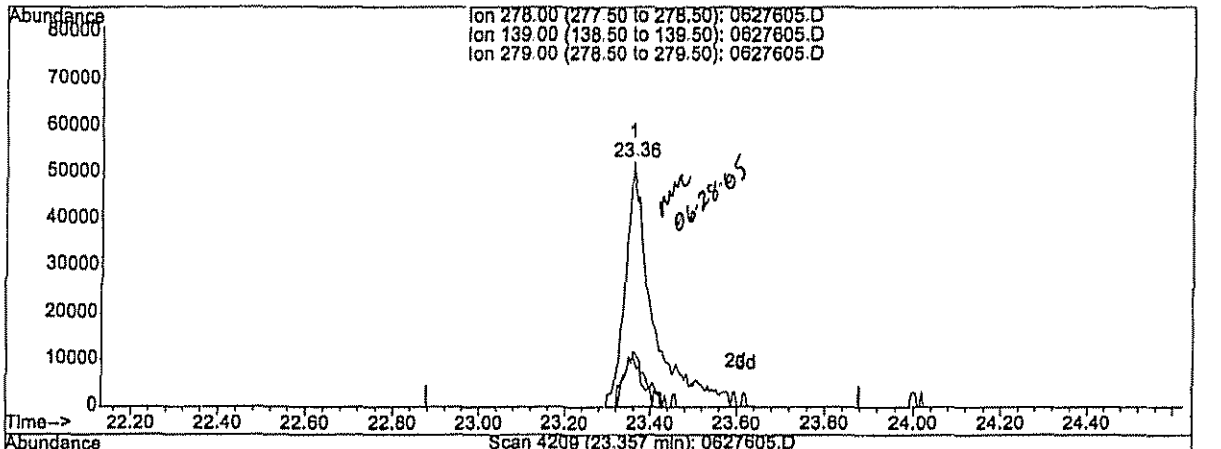
Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

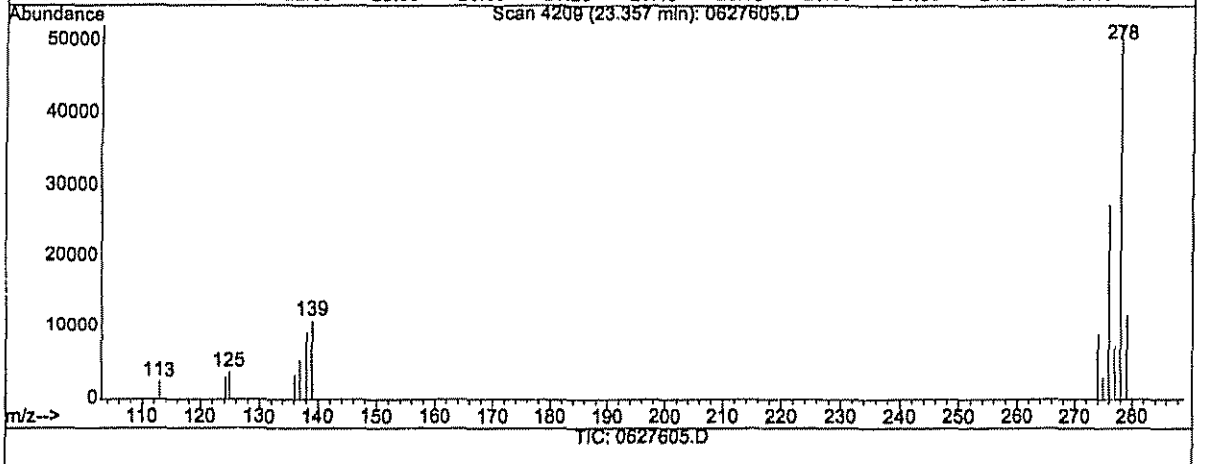


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Multiple Level Calibration





(99) Dibenzo[a,h]anthracene (TM)

23.36min 6.72ug/mL m

response 234035

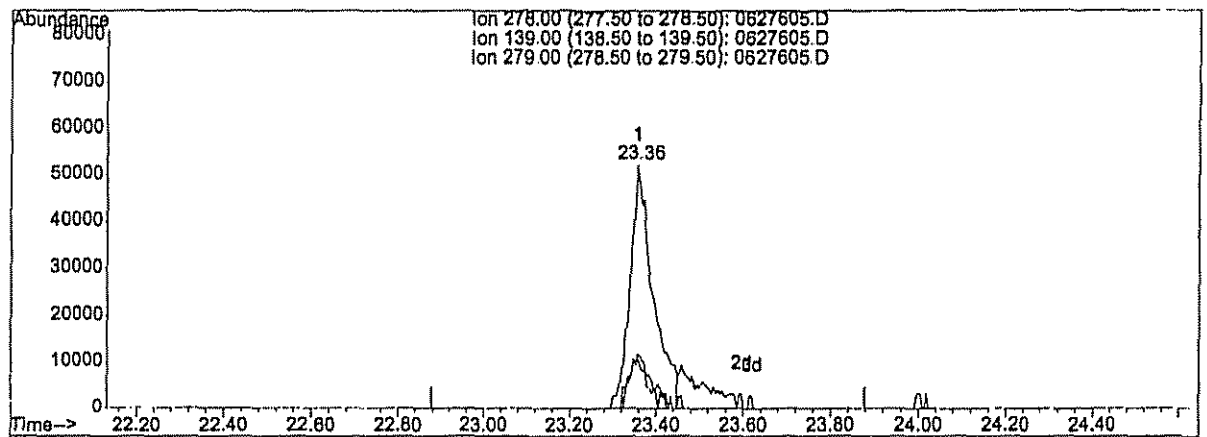
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	21.07
279.00	22.30	22.69
0.00	0.00	0.00

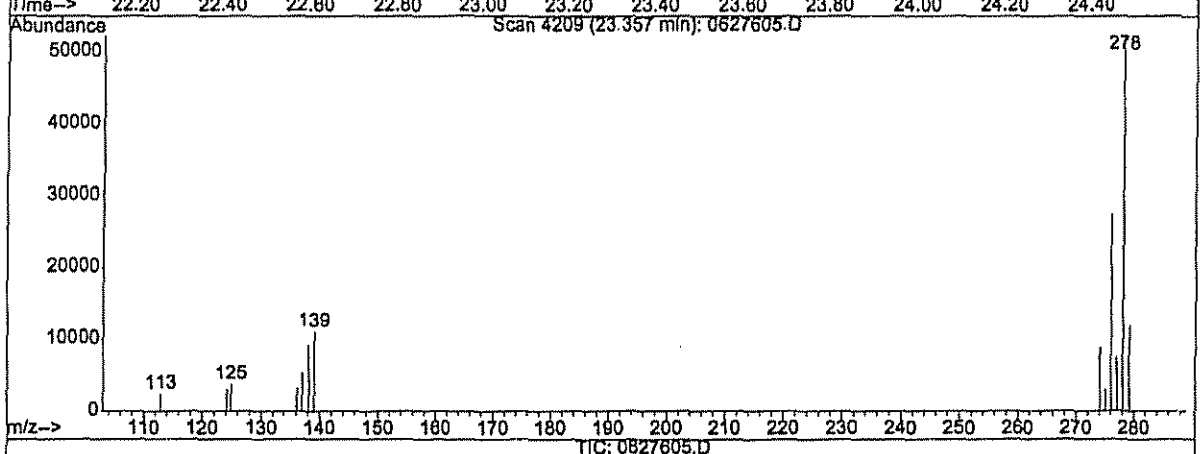
0627605.D 8270.M Tue Jun 28 11:08:06 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:06 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Multiple Level Calibration





(99) Dibenzo[a,h]anthracene (TM)

23.36min 5.55ug/mL

response 193214

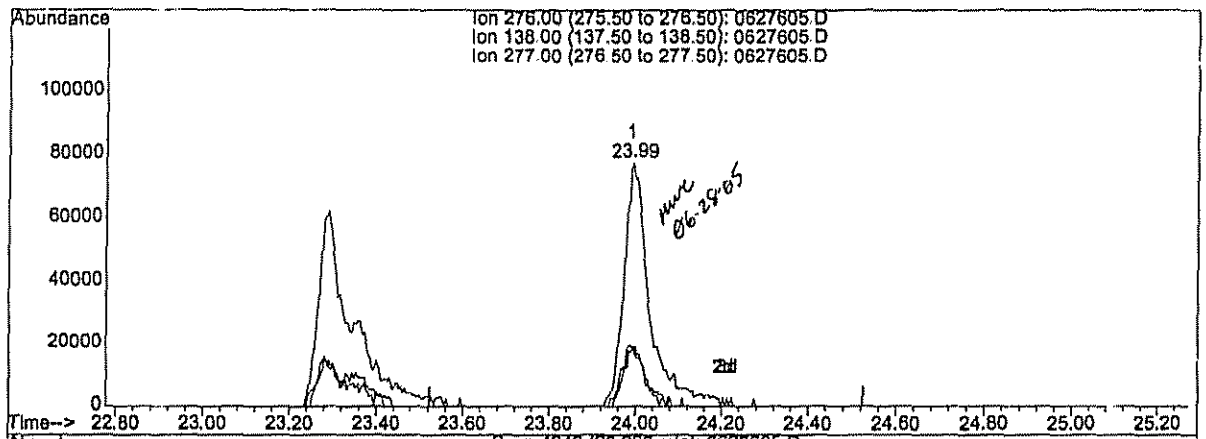
Ion	Exp%	Act%
278.00	100	100
139.00	19.80	21.07
279.00	22.30	22.69
0.00	0.00	0.00

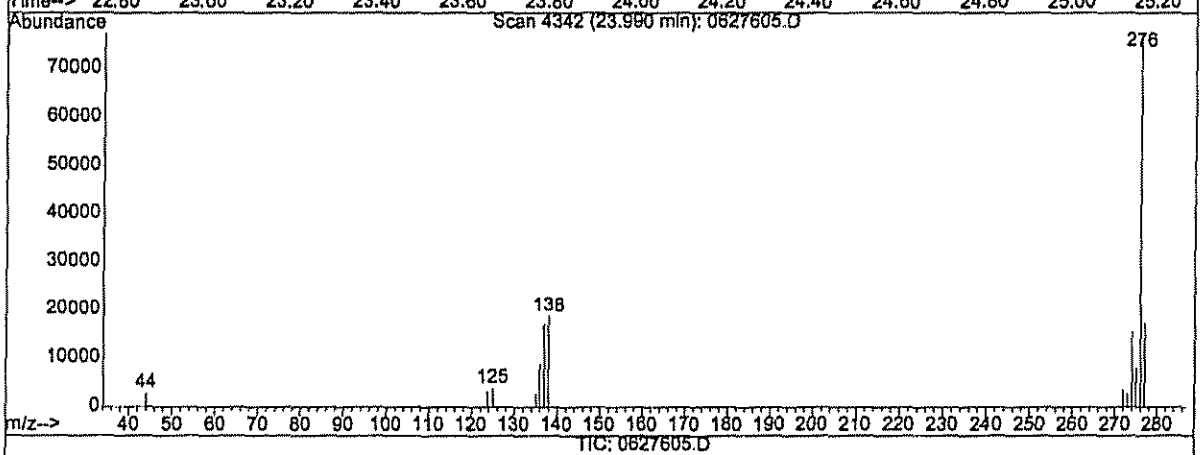
0627605.D 8270.M Tue Jun 28 11:08:02 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Multiple Level Calibration





TIC: 0627605.D

(100) Benzo[g,h,i]perylene (TM)

23.99min 6.33ug/mL m

response 329489

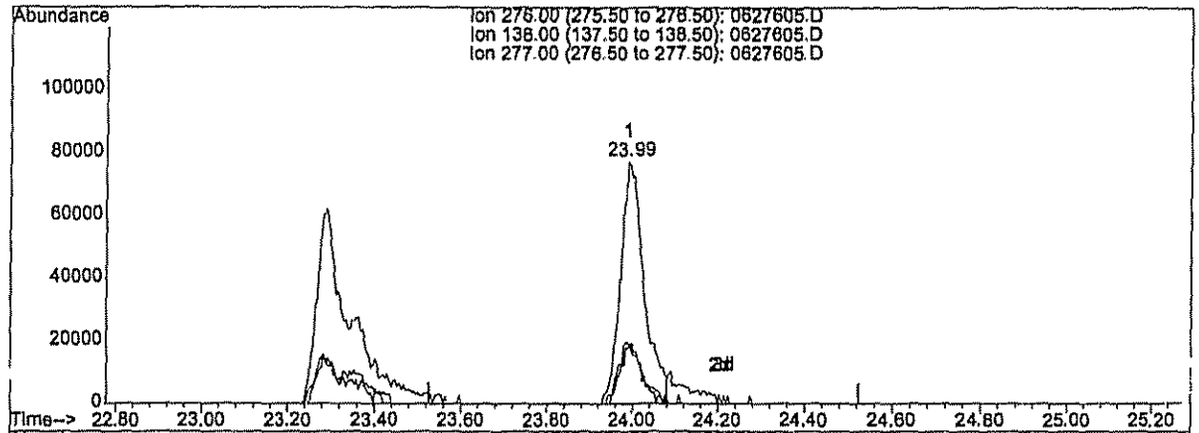
Ion	Exp%	Act%
276.00	100	100
138.00	24.60	24.33
277.00	24.50	22.34
0.00	0.00	0.00

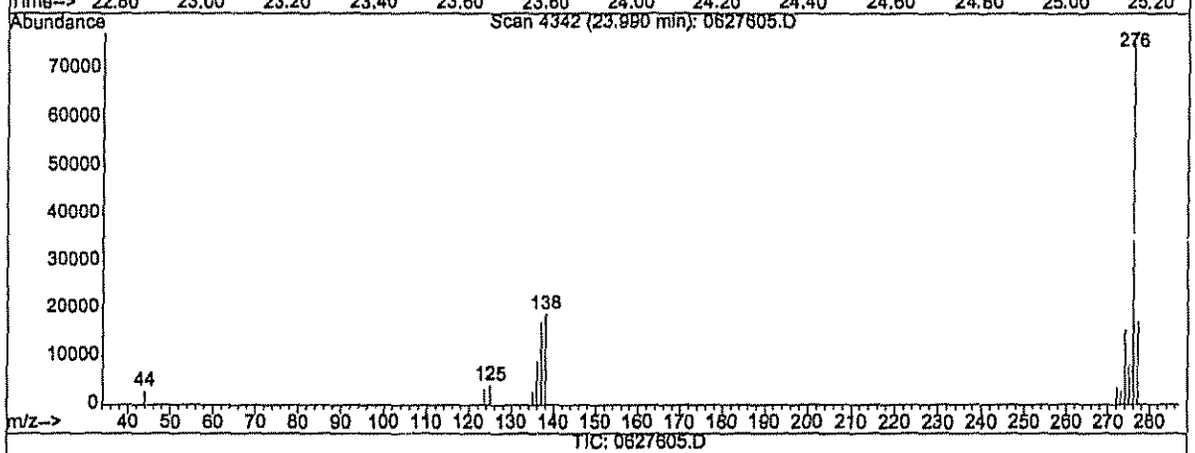
0627605.D 8270.M Tue Jun 28 11:08:12 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627605.D Vial: 6
Acq On : 27 Jun 2005 6:44 pm Operator: MRC
Sample : SVCAL6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:08 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:06:40 2005
Response via : Multiple Level Calibration





TIC: 0627605.D

(100) Benzo[g,h,i]perylene (TM)

23.99min 5.65ug/mL

response 294421

Ion	Exp%	Act%
276.00	100	100
138.00	24.60	24.33
277.00	24.50	22.34
0.00	0.00	0.00

0627605.D 8270.M Tue Jun 28 11:08:09 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627606.D Vial: 5
Acq On : 27 Jun 2005 7:19 pm Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:17 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:08:38 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 06-28-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.21	152	229553	4.00	ug/mL	0.00
18) Naphthalene-D8	9.14	136	901577	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.93	164	521672	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.31	188	772840	4.00	ug/mL	0.00
85) Chrysene-D12	18.57	240	562338	4.00	ug/mL	0.00
93) Perylene-D12	20.92	264	329591	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.41	112	470065	8.10	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	81.00%	
17) Phenol-d6 (surr)	6.70	99	696897	7.57	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	75.70%	
32) Nitrobenzene-d5 (surr)	8.05	128	249287	7.78	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	77.80%	
53) 2-Fluorobiphenyl (surr)	10.87	172	1119610	7.67	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	76.70%	
54) 2,4,6-Tribromophenol (surr	13.20	330	126222	8.54	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	85.40%	
92) 4-Terphenyl-d14 (surr)	16.92	244	1025701	7.12	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	71.20%	

Target Compounds						Qvalue
2) Pyridine	3.83	79	359813	7.51	ug/mL#	77
3) N-Nitrosodimethylamine	3.82	74	305769	7.83	ug/mL	98
4) Phenol	6.72	94	792922	7.60	ug/mL	98
5) Bis(2-chloroethyl)ether	6.85	93	628009	7.77	ug/mL	96
6) 2-Chlorophenol	6.91	128	583926	7.64	ug/mL	99
7) Benzyl Alcohol	7.43	108	413926	7.83	ug/mL	96
8) 1,3-Dichlorobenzene	7.13	146	576165	7.58	ug/mL	97
9) 1,4-Dichlorobenzene	7.24	146	592381	7.62	ug/mL	97
10) 1,2-Dichlorobenzene	7.46	146	537434	7.67	ug/mL	95
11) 2-Methylphenol	7.60	107	486540	7.67	ug/mL	98
12) 3-, 4-Methylphenol	7.83	107	701593	7.62	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.65	45	727233	7.54	ug/mL	98
14) N-Nitrosodi-n-propylamine	7.84	70	373837	7.68	ug/mL	95
15) Hexachloroethane	7.97	117	235575	7.63	ug/mL	92
19) Nitrobenzene	8.07	77	689905	7.78	ug/mL	99
20) Isophorone	8.45	82	1025845	7.79	ug/mL	99
21) 2-Nitrophenol	8.56	139	317085	7.62	ug/mL	99
22) 2,4-Dimethylphenol	8.65	122	463728	7.88	ug/mL	99
23) Benzoic Acid	8.82	122	316901	8.84	ug/mL	96
24) Bis(2-chloroethoxy)methane	8.80	93	678222	7.81	ug/mL	100

(#) = qualifier out of range (m) = manual integration
0627606.D 8270.M Tue Jun 28 11:29:50 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627606.D Vial: 5
Acq On : 27 Jun 2005 7:19 pm Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:17 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:08:38 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25)	2,4-Dichlorophenol	8.93	162	471289	7.96	ug/mL	98
26)	1,2,4-Trichlorobenzene	9.06	180	488346	7.76	ug/mL	96
27)	Naphthalene	9.17	128	1526898	7.78	ug/mL	99
28)	4-Chloroaniline	9.33	127	213868m	6.71	ug/mL	
29)	Hexachlorobutadiene	9.39	225	309196	7.81	ug/mL	98
30)	4-Chloro-3-methylphenol	10.05	107	573600	8.25	ug/mL	95
31)	2-Methylnaphthalene	10.27	142	1087754	7.75	ug/mL	95
34)	Hexachlorocyclopentadiene	10.54	237	162178	9.21	ug/mL	91
35)	2,4,6-Trichlorophenol	10.73	196	363297	7.92	ug/mL	98
36)	2,4,5-Trichlorophenol	10.78	196	385557	8.18	ug/mL	93
37)	2-Chloronaphthalene	11.04	162	1002375	7.86	ug/mL	97
38)	2-Nitroaniline	11.22	65	371880	7.99	ug/mL	93
39)	3-Nitroaniline	11.89	138	56692	5.39	ug/mL	99
40)	1-Methylnaphthalene	10.42	142	979947	7.68	ug/mL	98
41)	Dimethylphthalate	11.55	163	1179156	7.76	ug/mL	98
42)	Acenaphthylene	11.70	152	1346482	8.04	ug/mL	98
43)	2,6-Dinitrotoluene	11.63	165	264805	7.94	ug/mL	99
44)	Acenaphthene	11.98	153	888189	7.74	ug/mL	98
45)	2,4-Dinitrophenol	12.07	184	155526	8.47	ug/mL	95
46)	4-Nitrophenol	12.17	109	179541	8.67	ug/mL	98
47)	Dibenzofuran	12.27	168	1451098	7.84	ug/mL	98
48)	2,4-Dinitrotoluene	12.27	165	332516	7.96	ug/mL#	98
49)	Fluorene	12.82	166	1081587	7.86	ug/mL	100
50)	Diethylphthalate	12.69	149	1090403	7.82	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.83	204	552671	7.75	ug/mL	95
52)	4-Nitroaniline	12.87	138	146107	9.39	ug/mL	90
56)	4,6-Dinitro-2-methylphenol	12.92	198	227259	8.23	ug/mL	94
57)	Diphenylamine	13.03	169	577265	7.79	ug/mL	97
58)	4-bromophenyl phenyl ether	13.62	248	302356	7.60	ug/mL	97
59)	Hexachlorobenzene	13.71	284	294144	7.45	ug/mL	99
60)	Pentachlorophenol	14.02	266	234822	8.44	ug/mL	96
61)	Phenanthrene	14.35	178	1488789	7.70	ug/mL	99
62)	Carbazole	14.70	167	991913	6.45	ug/mL#	94
63)	Anthracene	14.43	178	1419406	7.91	ug/mL	99
64)	Azobenzene	13.09	77	1294402	7.53	ug/mL	99
65)	Di-n-Butylphthalate	15.33	149	1775538	7.69	ug/mL	99
66)	Fluoranthene	16.26	202	1573381	7.86	ug/mL	98
67)	alpha-BHC	13.63	183	240106	7.75	ug/mL	95
68)	beta-BHC	13.97	181	199856	7.86	ug/mL	100
69)	gamma-BHC	14.11	183	204622	7.79	ug/mL	100
70)	delta-BHC	14.47	183	189059	7.65	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0627606.D 8270.M Tue Jun 28 11:29:51 2005 ENV Pgae 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627606.D Vial: 5
Acq On : 27 Jun 2005 7:19 pm Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:17 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:08:38 2005
Response via : Initial Calibration
DataAcq Meth : 8270

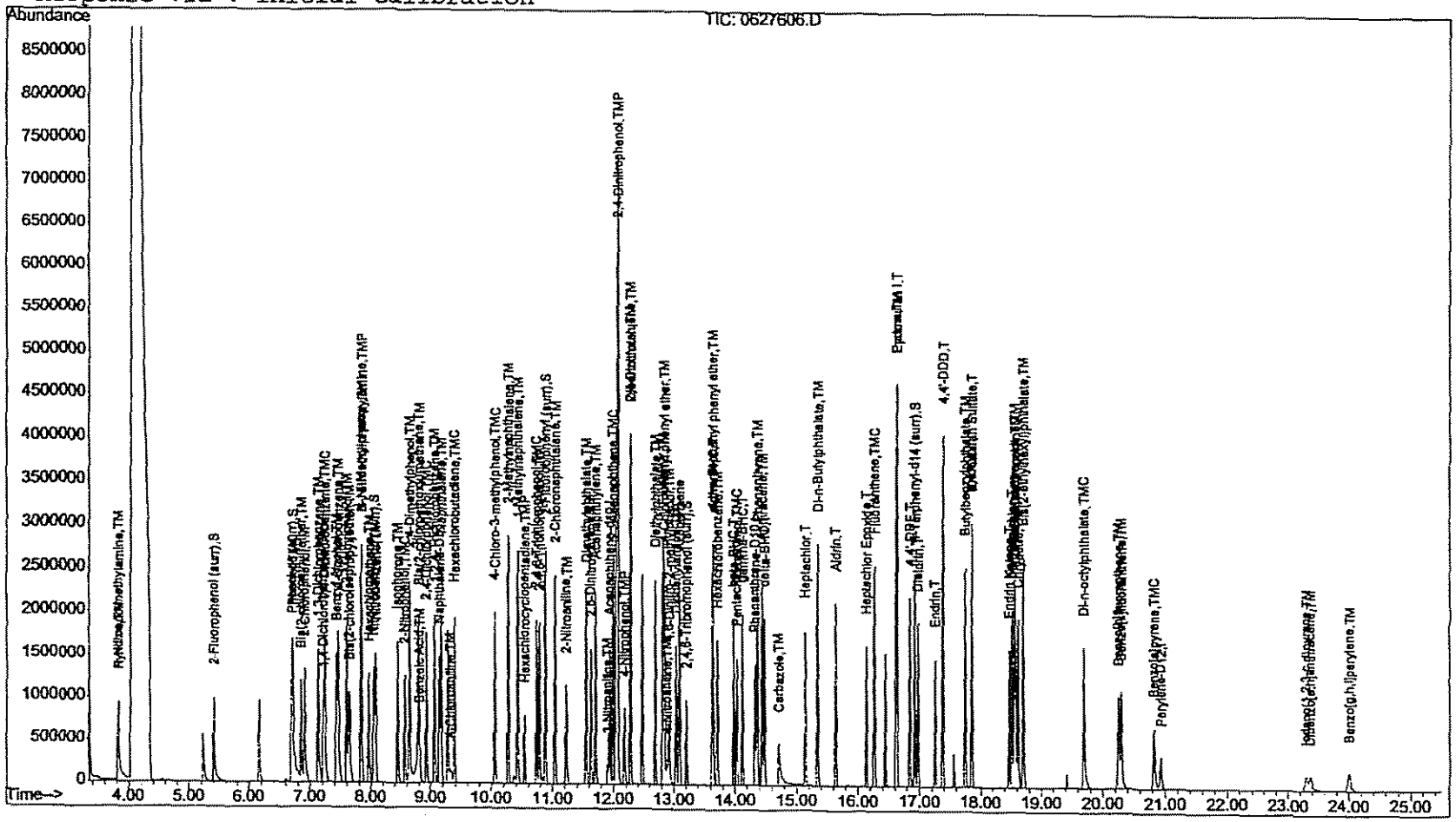
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	232672	7.88 ug/mL	99
72)	Aldrin	15.63	66	261648	7.67 ug/mL	98
73)	Heptachlor Epoxide	16.13	353	80408	7.94 ug/mL	98
74)	Endosulfan I	16.62	195	68472	8.26 ug/mL	98
75)	4,4'-DDE	16.84	246	375061	7.99 ug/mL	99
76)	Dieldrin	16.97	79	334040	7.68 ug/mL	99
77)	Endrin	17.25	263	60014	8.26 ug/mL	96
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.37	235	622703	7.88 ug/mL	100
80)	Endosulfan Sulfate	17.84	272	82331	8.61 ug/mL	99
81)	4,4'-DDT	17.85	235	500184	8.23 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.47	317	61289	8.28 ug/mL	99
84)	Methoxychlor	18.51	227	998957	8.39 ug/mL	99
86)	Pyrene	16.62	202	1522600	7.02 ug/mL	99
87)	Butylbenzylphthalate	17.74	149	748140	7.38 ug/mL	100
88)	Benzo[a]anthracene	18.55	228	1150959	7.51 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.54	252	128078	7.32 ug/mL	92
90)	Chrysene	18.61	228	1118931	7.50 ug/mL	97
91)	Bis(2-ethylhexyl)phthalate	18.68	149	950885	7.11 ug/mL	96
94)	Di-n-octylphthalate	19.68	149	1433043	7.83 ug/mL	100
95)	Benzo[b]fluoranthene	20.24	252	811638	8.08 ug/mL	95
96)	Benzo[k]fluoranthene	20.29	252	924544	8.21 ug/mL	97
97)	Benzo[a]pyrene	20.81	252	643776	8.17 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	23.29	276	248392	7.24 ug/mL	96
99)	Dibenzo[a,h]anthracene	23.36	278	279155m	8.71 ug/mL	
100)	Benzo[g,h,i]perylene	24.00	276	371921m	7.84 ug/mL	

(#) = qualifier out of range (m) = manual integration
0627606.D 8270.M Tue Jun 28 11:29:52 2005 ENV Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627606.D Vial: 5
Acq On : 27 Jun 2005 7:19 pm Operator: MRC
Sample : SVCAL8 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:17 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0627606.D 8270.M Tue Jun 28 11:29:56 2005 ENV

Page 4

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MWL 06.28.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.22	152	237981	4.00	ug/mL	0.00
18) Naphthalene-D8	9.14	136	949822	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.93	164	557787	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.32	188	825426	4.00	ug/mL	0.00
85) Chrysene-D12	18.57	240	575674	4.00	ug/mL	0.00
93) Perylene-D12	20.93	264	325480	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.42	112	754113	12.51	ug/mL	0.01
Spiked Amount 10.000			Recovery = 125.10%			
17) Phenol-d6 (surr)	6.71	99	1145487	12.10	ug/mL	0.01
Spiked Amount 10.000			Recovery = 121.00%			
32) Nitrobenzene-d5 (surr)	8.05	128	411187	12.23	ug/mL	0.00
Spiked Amount 10.000			Recovery = 122.30%			
53) 2-Fluorobiphenyl (surr)	10.88	172	1836069	11.83	ug/mL	0.00
Spiked Amount 10.000			Recovery = 118.30%			
54) 2,4,6-Tribromophenol (surr	13.20	330	204992	12.85	ug/mL	0.00
Spiked Amount 10.000			Recovery = 128.50%			
92) 4-Terphenyl-d14 (surr)	16.92	244	1691517	11.65	ug/mL	0.00
Spiked Amount 10.000			Recovery = 116.50%			
Target Compounds						Qvalue
2) Pyridine	3.84	79	731981	14.89	ug/mL#	80
3) N-Nitrosodimethylamine	3.84	74	478358	11.85	ug/mL	95
4) Phenol	6.73	94	1275487	11.88	ug/mL	99
5) Bis(2-chloroethyl)ether	6.86	93	1068480m	12.80	ug/mL	
6) 2-Chlorophenol	6.92	128	962385	12.22	ug/mL	99
7) Benzyl Alcohol	7.44	108	687311	12.57	ug/mL	96
8) 1,3-Dichlorobenzene	7.14	146	930020	11.89	ug/mL	95
9) 1,4-Dichlorobenzene	7.25	146	956696	11.95	ug/mL	98
10) 1,2-Dichlorobenzene	7.46	146	864927	11.97	ug/mL	94
11) 2-Methylphenol	7.61	107	805901	12.33	ug/mL	99
12) 3-, 4-Methylphenol	7.84	107	1156761	12.21	ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.65	45	1175610	11.85	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.85	70	609059	12.14	ug/mL	98
15) Hexachloroethane	7.96	117	388922	12.24	ug/mL	98
19) Nitrobenzene	8.08	77	1161586	12.49	ug/mL	99
20) Isophorone	8.45	82	1718482	12.43	ug/mL	100
21) 2-Nitrophenol	8.57	139	508815	11.68	ug/mL	96
22) 2,4-Dimethylphenol	8.65	122	762827	12.34	ug/mL	99
23) Benzoic Acid	8.86	122	567335	14.80	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.80	93	1114225	12.21	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0627607.D 8270.M Tue Jun 28 11:30:03 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.93	162	789106	12.65 ug/mL	98
26) 1,2,4-Trichlorobenzene	9.06	180	810564	12.28 ug/mL	95
27) Naphthalene	9.18	128	2498943	12.14 ug/mL	99
28) 4-Chloroaniline	9.35	127	323179m	9.86 ug/mL	
29) Hexachlorobutadiene	9.39	225	517605	12.46 ug/mL	98
30) 4-Chloro-3-methylphenol	10.06	107	944468	12.83 ug/mL	94
31) 2-Methylnaphthalene	10.27	142	1771834	12.03 ug/mL	100
34) Hexachlorocyclopentadiene	10.54	237	260309	13.53 ug/mL	98
35) 2,4,6-Trichlorophenol	10.74	196	592348	12.10 ug/mL	97
36) 2,4,5-Trichlorophenol	10.78	196	640870	12.67 ug/mL	98
37) 2-Chloronaphthalene	11.04	162	1642047	12.07 ug/mL	97
38) 2-Nitroaniline	11.23	65	622800	12.51 ug/mL	99
39) 3-Nitroaniline	11.91	138	62360	5.81 ug/mL	95
40) 1-Methylnaphthalene	10.43	142	1620444	11.94 ug/mL	100
41) Dimethylphthalate	11.55	163	1931560	11.94 ug/mL	98
42) Acenaphthylene	11.70	152	2175839	12.15 ug/mL	99
43) 2,6-Dinitrotoluene	11.63	165	432377	12.14 ug/mL	94
44) Acenaphthene	11.99	153	1458369	11.94 ug/mL	100
45) 2,4-Dinitrophenol	12.08	184	268969	13.58 ug/mL	96
46) 4-Nitrophenol	12.18	109	312913	13.97 ug/mL	97
47) Dibenzofuran	12.27	168	2360271	11.96 ug/mL	98
48) 2,4-Dinitrotoluene	12.28	165	543731	12.18 ug/mL#	95
49) Fluorene	12.82	166	1742162	11.87 ug/mL	99
50) Diethylphthalate	12.69	149	1817488	12.23 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.84	204	897441	11.83 ug/mL	97
52) 4-Nitroaniline	12.89	138	214862m	12.60 ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.92	198	383751	12.95 ug/mL	97
57) Diphenylamine	13.03	169	838028	10.62 ug/mL	97
58) 4-bromophenyl phenyl ether	13.62	248	497113	11.78 ug/mL	93
59) Hexachlorobenzene	13.71	284	468859	11.22 ug/mL	98
60) Pentachlorophenol	14.03	266	386165	12.90 ug/mL	96
61) Phenanthrene	14.36	178	2431223	11.84 ug/mL	97
62) Carbazole	14.71	167	666255	5.98 ug/mL#	92
63) Anthracene	14.44	178	2291122	11.97 ug/mL	99
64) Azobenzene	13.09	77	2159537	11.87 ug/mL	99
65) Di-n-Butylphthalate	15.33	149	2930540	11.94 ug/mL	99
66) Fluoranthene	16.27	202	2595086	12.17 ug/mL	97
67) alpha-BHC	13.64	183	389177	11.82 ug/mL	98
68) beta-BHC	13.97	181	324205	11.97 ug/mL	100
69) gamma-BHC	14.11	183	336027	12.03 ug/mL	99
70) delta-BHC	14.47	183	311846	11.89 ug/mL	100

(#) = qualifier out of range (m) = manual integration
0627607.D 8270.M Tue Jun 28 11:30:03 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	380519	12.09 ug/mL	99
72)	Aldrin	15.63	66	431019	11.91 ug/mL	96
73)	Heptachlor Epoxide	16.13	353	127006	11.75 ug/mL	96
74)	Endosulfan I	16.63	195	112292	12.63 ug/mL	98
75)	4,4'-DDE	16.84	246	605985	12.09 ug/mL	99
76)	Dieldrin	16.97	79	547744	11.86 ug/mL	99
77)	Endrin	17.25	263	103093	13.22 ug/mL	100
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.37	235	996110	11.83 ug/mL#	99
80)	Endosulfan Sulfate	17.85	272	128489	12.44 ug/mL	93
81)	4,4'-DDT	17.85	235	800163	12.28 ug/mL	99
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.47	317	105355	13.26 ug/mL	100
84)	Methoxychlor	18.51	227	1623263	12.68 ug/mL	100
86)	Pyrene	16.63	202	2485790	11.40 ug/mL	98
87)	Butylbenzylphthalate	17.74	149	1242617	12.10 ug/mL	98
88)	Benzo[a]anthracene	18.55	228	1894611	12.19 ug/mL	97
89)	3,3'-Dichlorobenzidine	18.54	252	250523	14.15 ug/mL	89
90)	Chrysene	18.61	228	1853039	12.24 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	18.69	149	1614699	11.99 ug/mL	97
94)	Di-n-octylphthalate	19.69	149	2520118	13.99 ug/mL	100
95)	Benzo[b]fluoranthene	20.25	252	1313117	13.21 ug/mL	97
96)	Benzo[k]fluoranthene	20.29	252	1408165	12.62 ug/mL	99
97)	Benzo[a]pyrene	20.82	252	1058521	13.56 ug/mL	95
98)	Indeno(1,2,3-c,d)pyrene	23.29	276	449795	13.45 ug/mL	98
99)	Dibenzo[a,h]anthracene	23.36	278	493309m	15.39 ug/mL	
100)	Benzo[g,h,i]perylene	24.01	276	611018m	13.08 ug/mL	

(#) = qualifier out of range (m) = manual integration

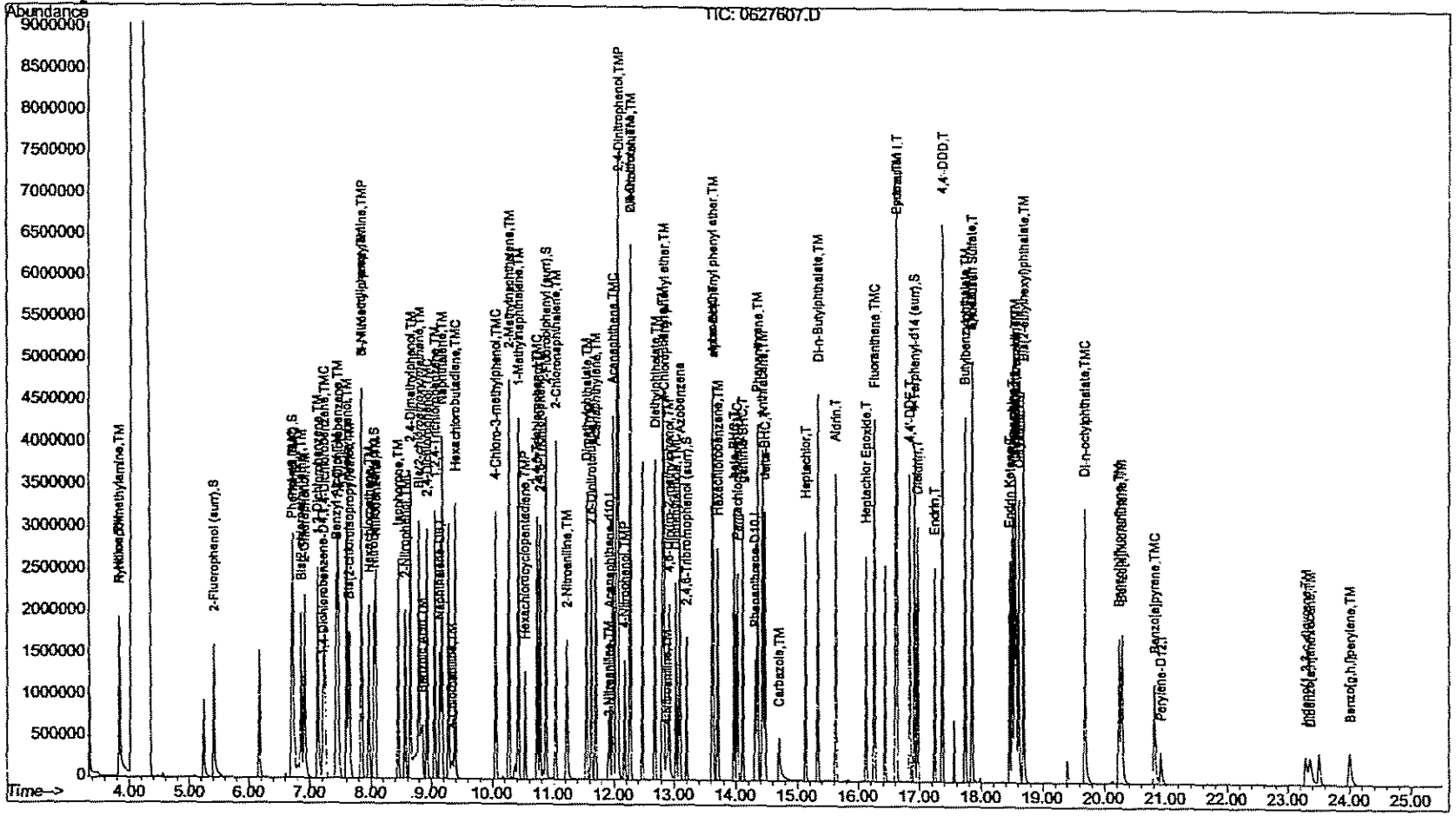
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D
Acq On : 27 Jun 2005 7:54 pm
Sample : SVCAL12
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005

Vial: 4
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

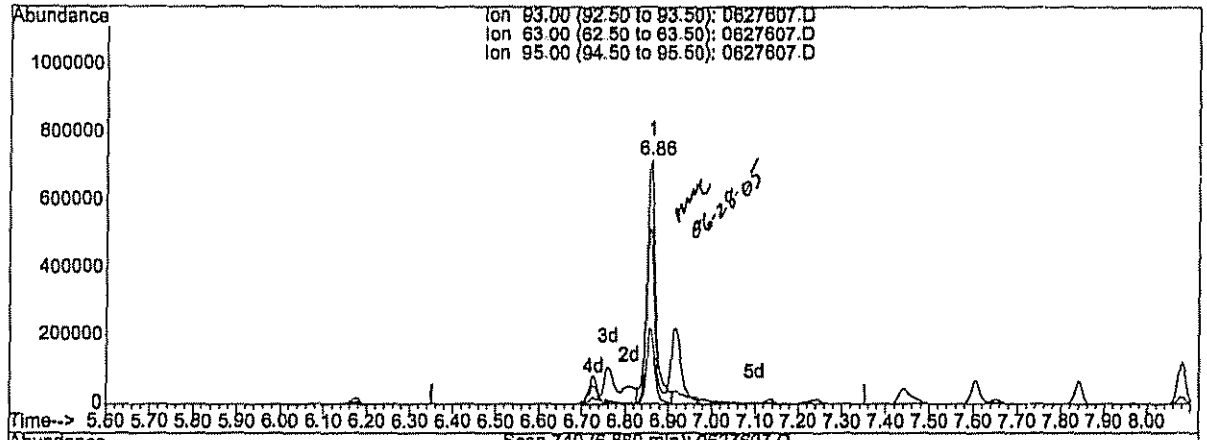


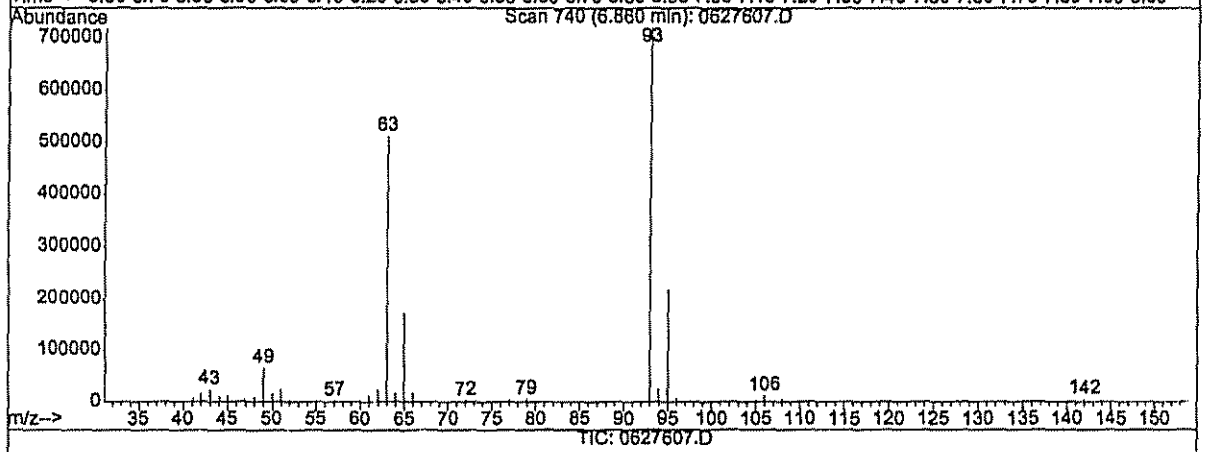
0627607.D 8270.M Tue Jun 28 11:30:08 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration





(5) Bis(2-chloroethyl)ether (TM)

6.86min 12.80ug/mL m

response 1068480

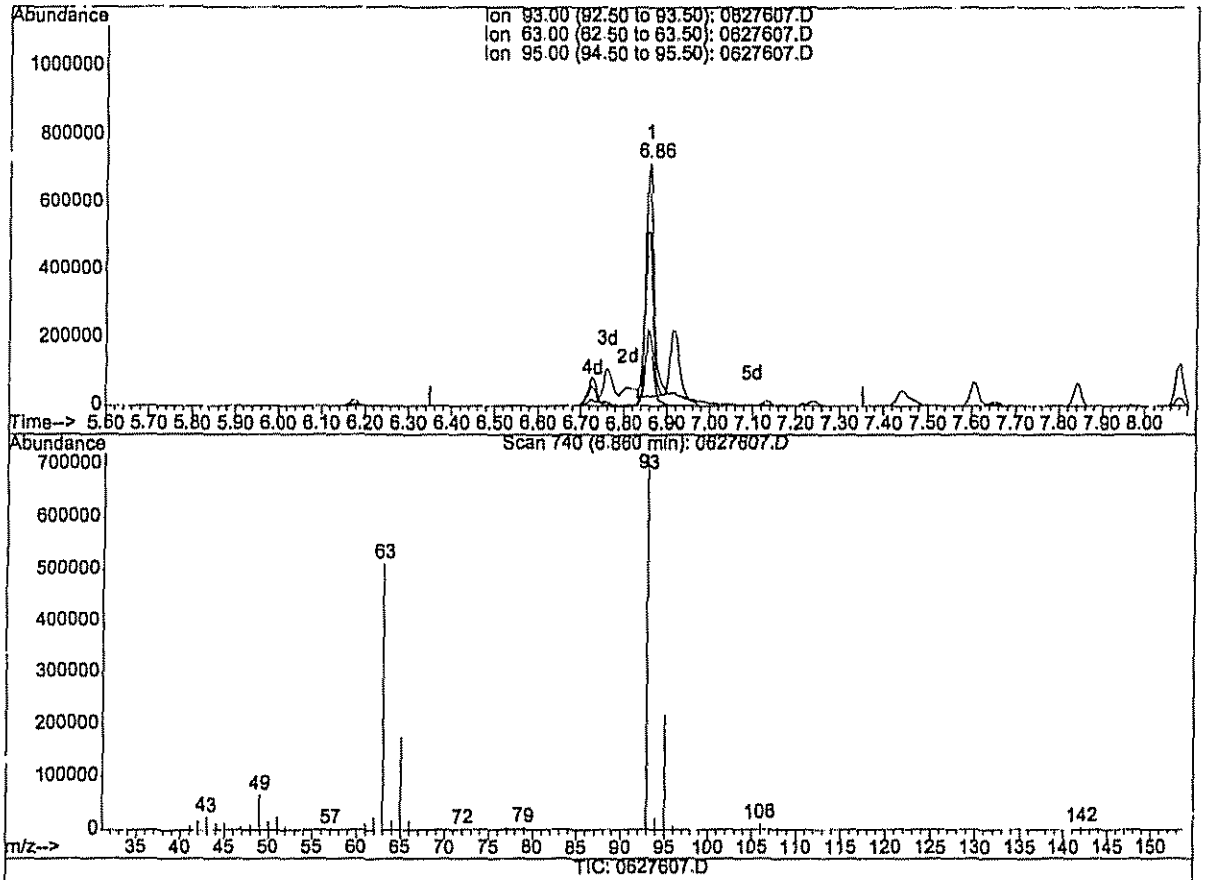
Ion	Exp%	Act%
93.00	100	100
63.00	73.90	71.24
95.00	32.70	30.43
0.00	0.00	0.00

0627607.D 8270.M Tue Jun 28 11:18:22 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

6.86min 10.99ug/mL

response 917145

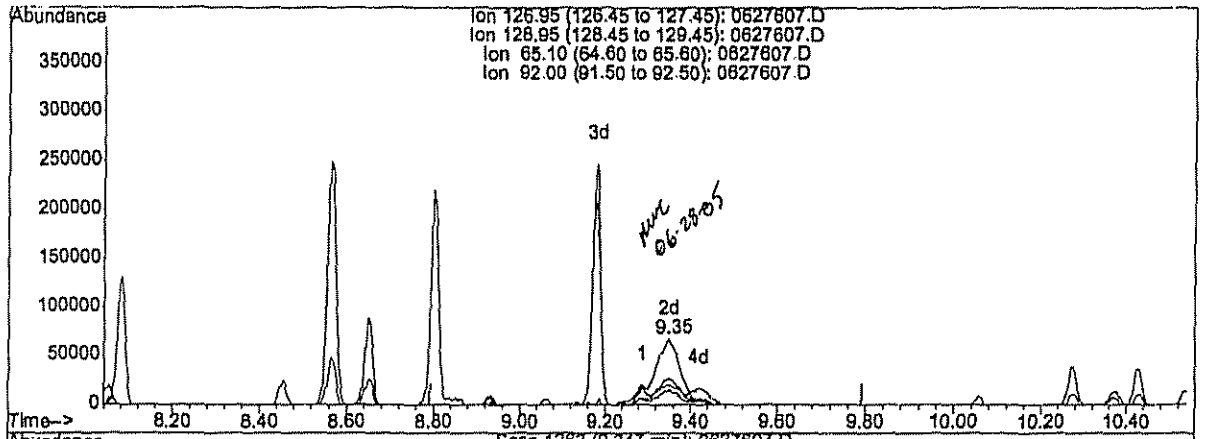
Ion	Exp%	Act%
93.00	100	100
63.00	73.90	74.24
95.00	32.70	32.08
0.00	0.00	0.00

0627607.D 8270.M Tue Jun 28 11:18:18 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(28) 4-Chloroaniline (TM)

9.35min 9.86ug/mL m

response 323179

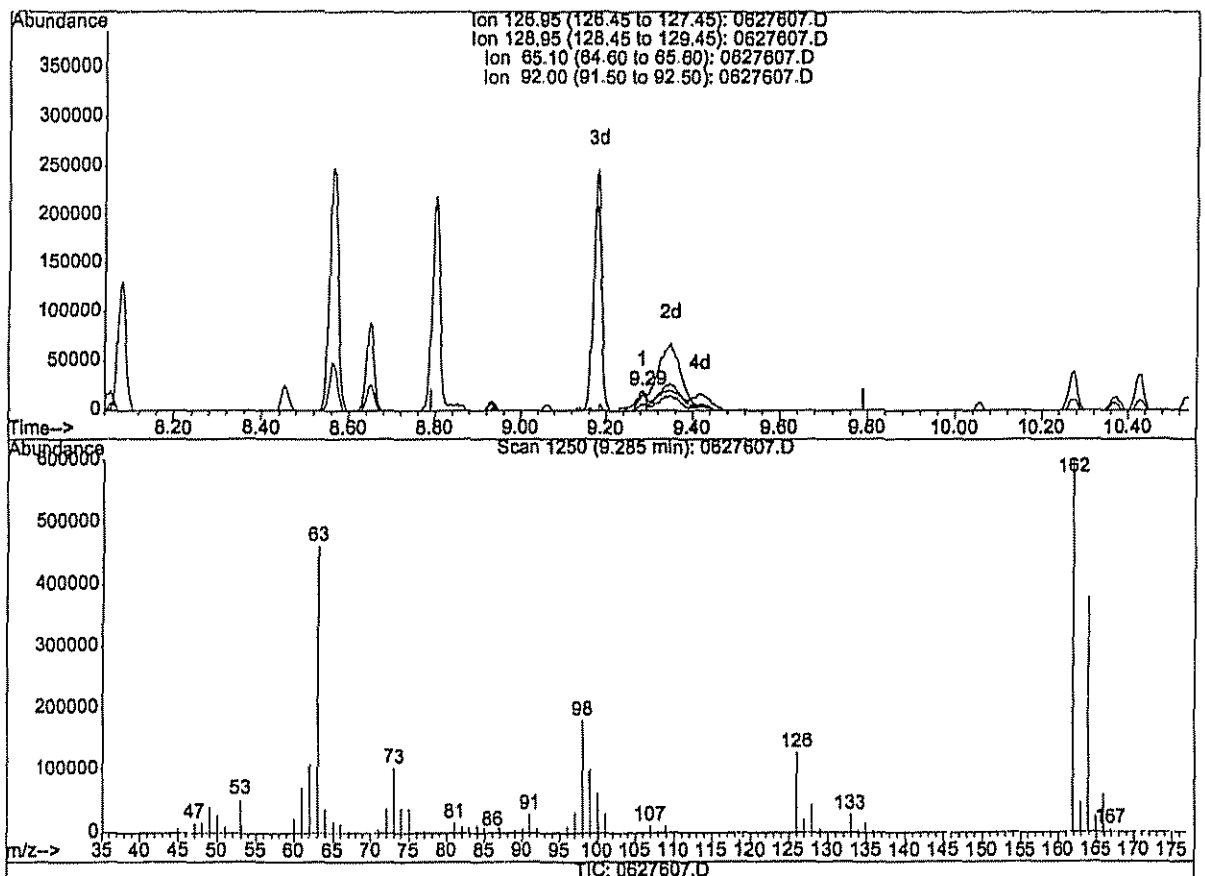
Ion	Exp%	Act%
126.95	100	100
128.95	33.90	29.48
65.10	36.70	39.73
92.00	25.90	22.46

0627607.D 8270.M Tue Jun 28 11:18:45 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(28) 4-Chloroaniline (TM)

9.29min 1.11ug/mL

response 36554

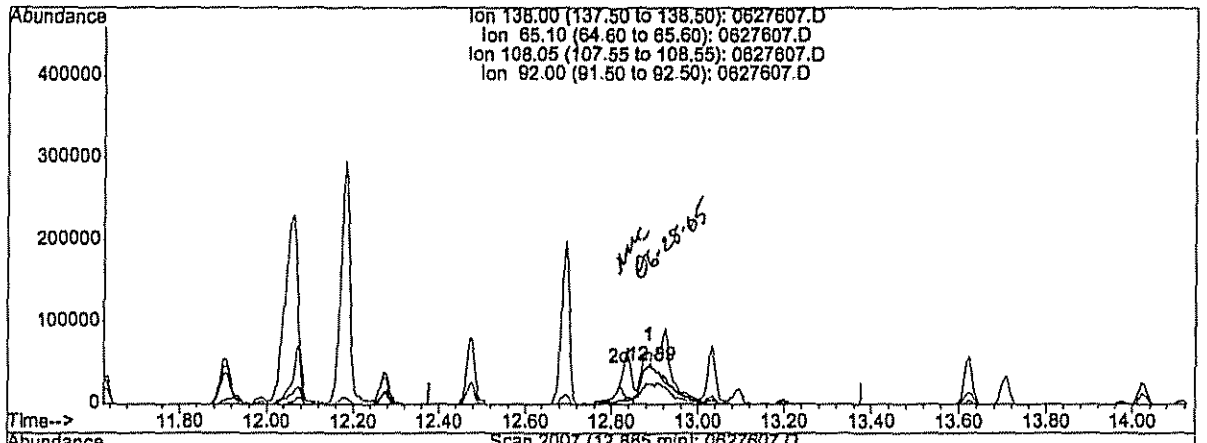
Ion	Exp%	Act%
126.95	100	100
128.95	33.90	29.42
65.10	36.70	84.30#
92.00	25.90	31.19#

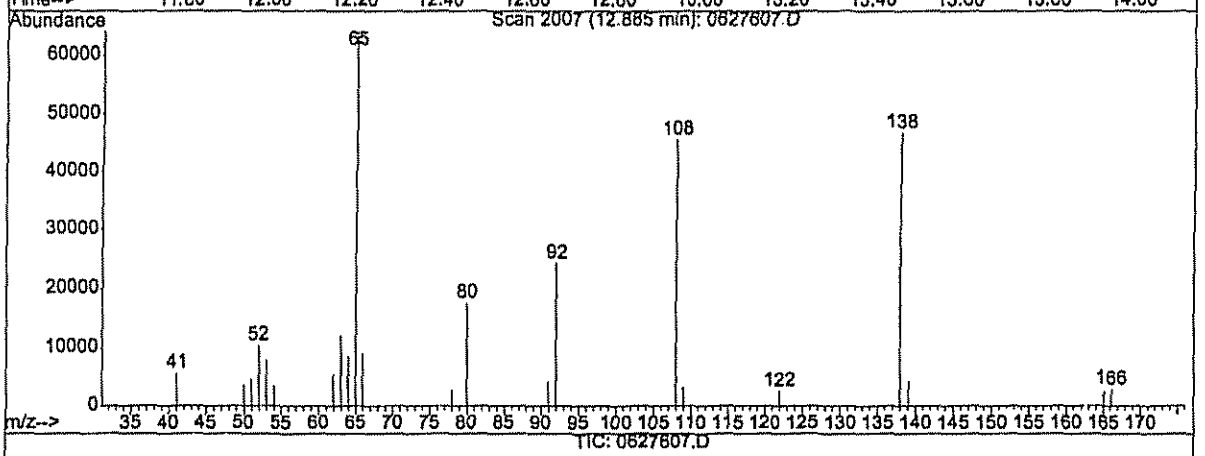
0627607.D 8270.M Tue Jun 28 11:18:41 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.89min 12.60ug/mL m

response 214862

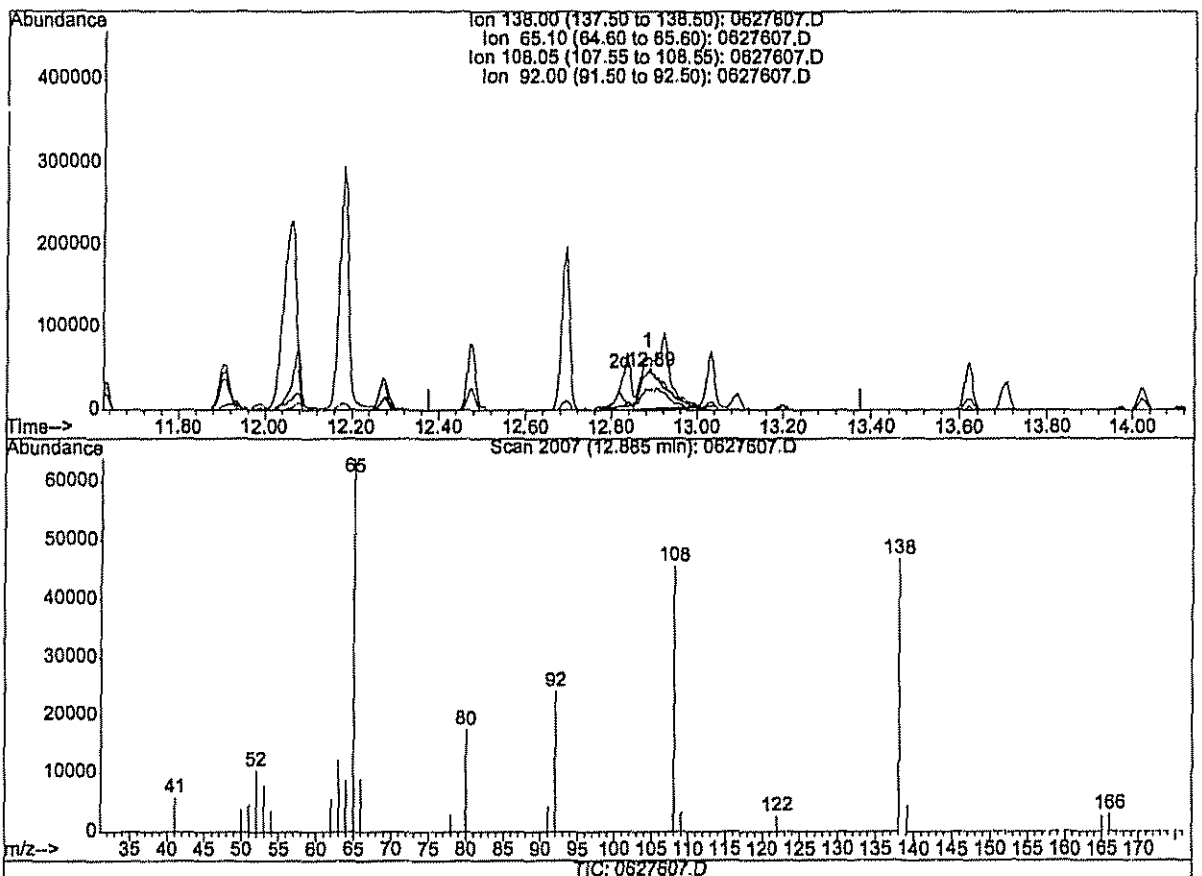
Ion	Exp%	Act%
138.00	100	100
65.10	102.50	137.09#
108.05	90.70	97.59
92.00	54.20	51.81

0627607.D 8270.M Tue Jun 28 11:19:09 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:18 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(52) 4-Nitroaniline (TM)

12.89min 10.80ug/mL

response 184118

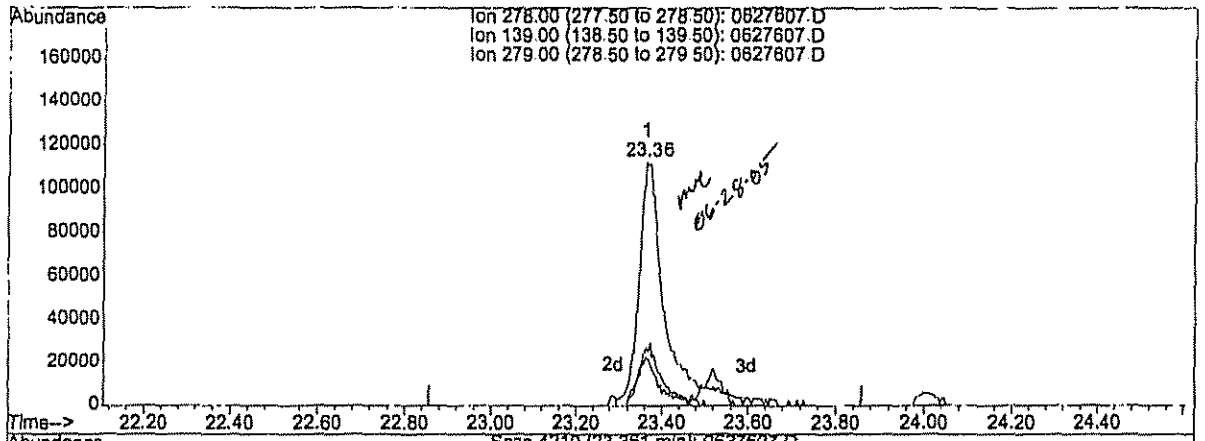
Ion	Exp%	Act%
138.00	100	100
65.10	102.50	121.41
108.05	90.70	98.12
92.00	54.20	55.94

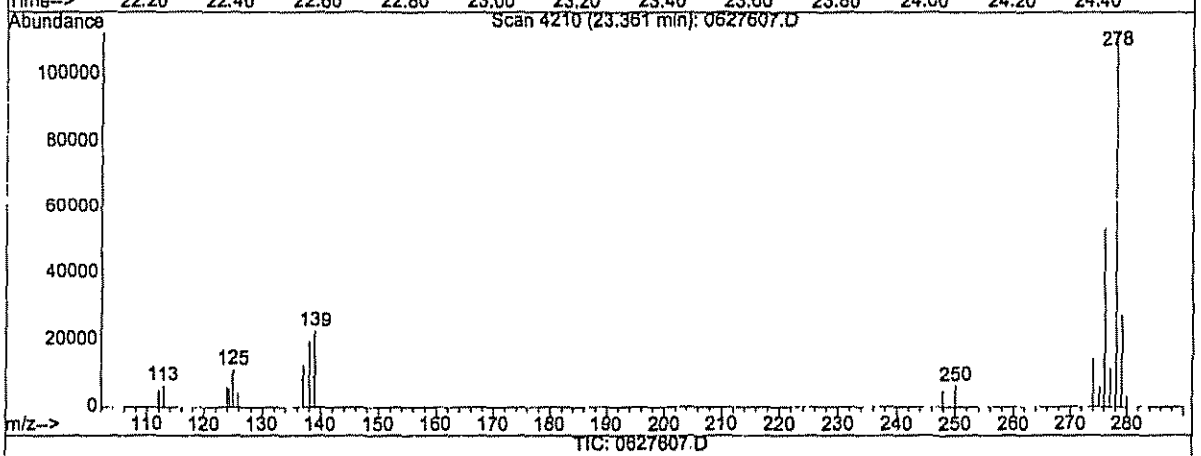
0627607.D 8270.M Tue Jun 28 11:19:05 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration





(99) Dibenzo[a,h]anthracene (TM)

23.36min 15.39ug/mL m

response 493309

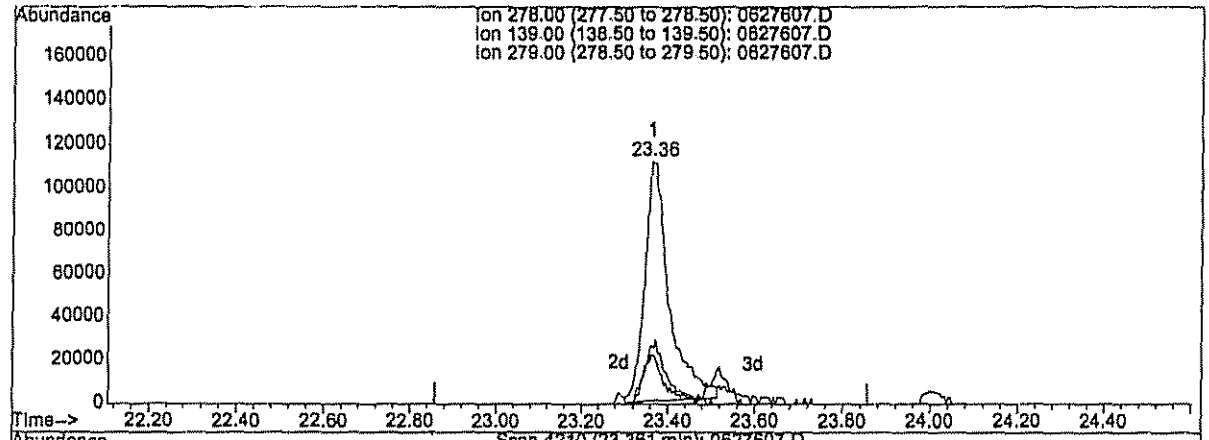
Ion	Exp%	Act%
278.00	100	100
139.00	21.10	20.07
279.00	22.70	24.03
0.00	0.00	0.00

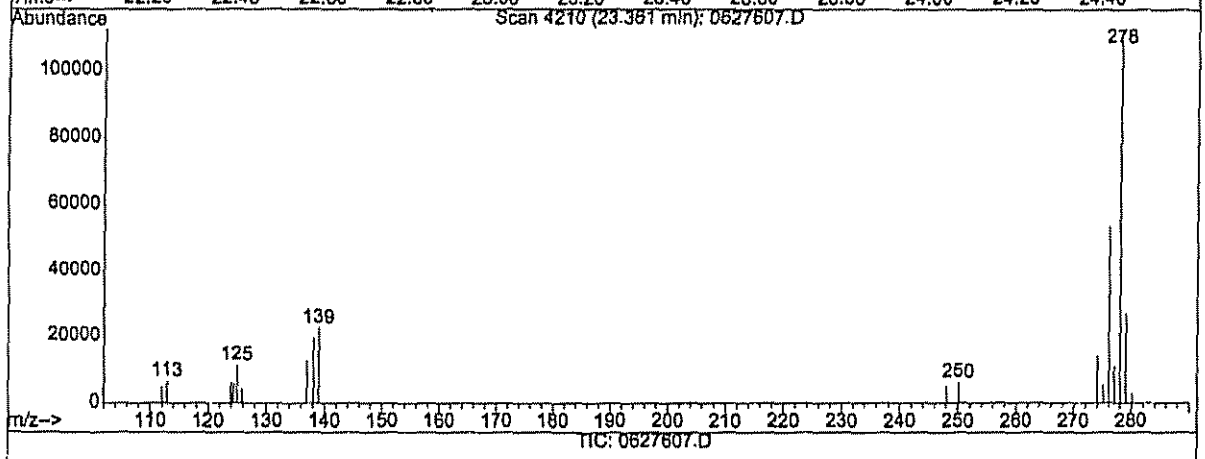
0627607.D 8270.M Tue Jun 28 11:19:43 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration





(99) Dibenzo[a,h]anthracene (TM)

23.36min 13.50ug/mL

response 432884

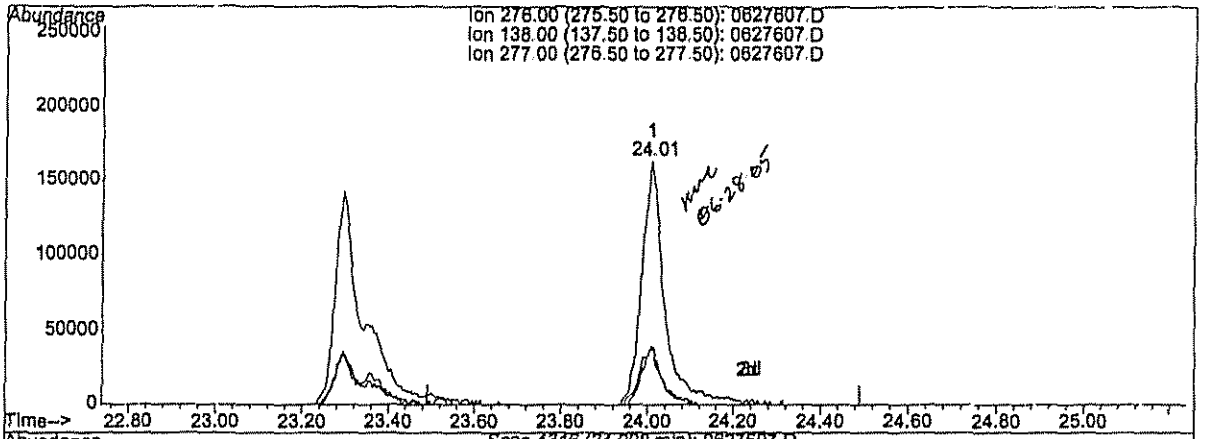
Ion	Exp%	Act%
278.00	100	100
139.00	21.10	20.61
279.00	22.70	24.69
0.00	0.00	0.00

0627607.D 8270.M Tue Jun 28 11:19:38 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(100) Benzo[g,h,i]perylene (TM)

24.01min 13.08ug/mL m

response 611018

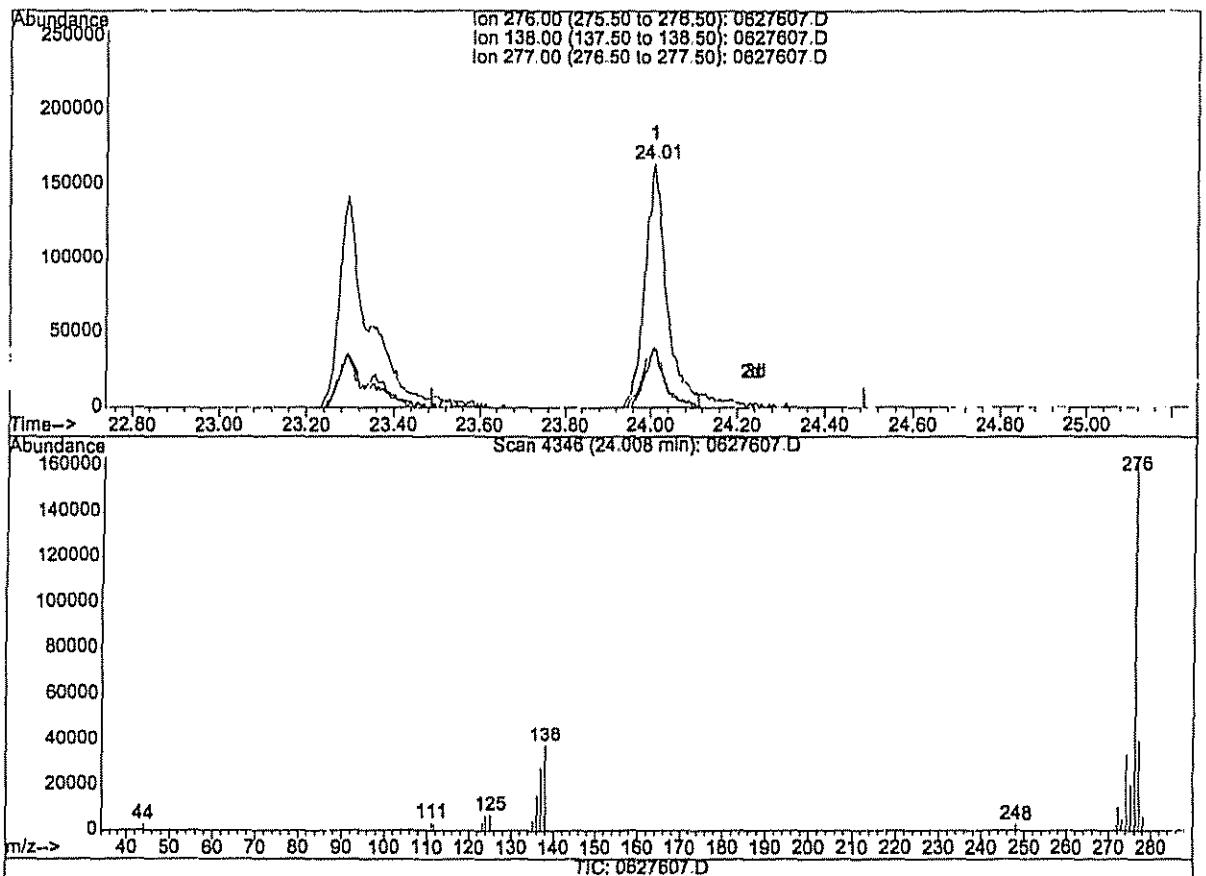
Ion	Exp%	Act%
276.00	100	100
138.00	24.30	23.14
277.00	22.30	24.37
0.00	0.00	0.00

0627607.D 8270.M Tue Jun 28 11:19:50 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627607.D Vial: 4
Acq On : 27 Jun 2005 7:54 pm Operator: MRC
Sample : SVCAL12 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:19 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:17:55 2005
Response via : Multiple Level Calibration



(100) Benzo[g,h,i]perylene (TM)

24.01min 12.28ug/mL

response 573712

Ion	Exp%	Act%
276.00	100	100
138.00	24.30	23.14
277.00	22.30	24.37
0.00	0.00	0.00

0627607.D 8270.M Tue Jun 28 11:19:46 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pwc 06-28-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.22	152	222934	4.00	ug/mL	0.00
18) Naphthalene-D8	9.15	136	911407	4.00	ug/mL	0.00
33) Acenaphthene-d10	11.93	164	525502	4.00	ug/mL	0.00
55) Phenanthrene-D10	14.32	188	798983	4.00	ug/mL	0.00
85) Chrysene-D12	18.58	240	523231	4.00	ug/mL	0.01
93) Perylene-D12	20.93	264	293081	4.00	ug/mL	0.00
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.42	112	1376665	24.25	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	242.50%	
17) Phenol-d6 (surr)	6.72	99	2103201	23.68	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	236.80%	
32) Nitrobenzene-d5 (surr)	8.06	128	757312	23.43	ug/mL	0.01
Spiked Amount 10.000			Recovery	=	234.30%	
53) 2-Fluorobiphenyl (surr)	10.88	172	3348626	22.94	ug/mL	0.01
Spiked Amount 10.000			Recovery	=	229.40%	
54) 2,4,6-Tribromophenol (surr	13.21	330	385526	25.43	ug/mL	0.01
Spiked Amount 10.000			Recovery	=	254.30%	
92) 4-Terphenyl-d14 (surr)	16.93	244	3066517	23.33	ug/mL	0.02
Spiked Amount 10.000			Recovery	=	233.30%	

Target Compounds						Qvalue
2) Pyridine	3.86	79	1263575m	26.53	ug/mL	
3) N-Nitrosodimethylamine	3.88	74	918653	24.33	ug/mL	97
4) Phenol	6.74	94	2333792	23.24	ug/mL	99
5) Bis(2-chloroethyl)ether	6.87	93	1903810	24.15	ug/mL	99
6) 2-Chlorophenol	6.92	128	1754346	23.73	ug/mL	98
7) Benzyl Alcohol	7.45	108	1256357	24.39	ug/mL	91
8) 1,3-Dichlorobenzene	7.14	146	1675978	22.90	ug/mL	98
9) 1,4-Dichlorobenzene	7.25	146	1759707	23.47	ug/mL	99
10) 1,2-Dichlorobenzene	7.47	146	1549245	22.90	ug/mL	94
11) 2-Methylphenol	7.61	107	1461843	23.79	ug/mL	97
12) 3-, 4-Methylphenol	7.86	107	2116459	23.79	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.65	45	2163971	23.33	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.87	70	1119411	23.78	ug/mL	97
15) Hexachloroethane	7.97	117	712096	23.86	ug/mL	99
19) Nitrobenzene	8.09	77	2116368	23.59	ug/mL	98
20) Isophorone	8.47	82	3143702	23.59	ug/mL	99
21) 2-Nitrophenol	8.57	139	927484	22.26	ug/mL	98
22) 2,4-Dimethylphenol	8.66	122	1377090	23.13	ug/mL	97
23) Benzoic Acid	8.92	122	1094388	28.91	ug/mL	97
24) Bis(2-chloroethoxy)methane	8.81	93	2018119	23.00	ug/mL	98

(#) = qualifier out of range (m) = manual integration
0627608.D 8270.M Tue Jun 28 11:30:15 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.94	162	1428887	23.72 ug/mL	98
26) 1,2,4-Trichlorobenzene	9.07	180	1461510	23.00 ug/mL	94
27) Naphthalene	9.19	128	4556076	23.03 ug/mL	100
28) 4-Chloroaniline	9.32	127	889556	28.92 ug/mL	95
29) Hexachlorobutadiene	9.40	225	935105	23.34 ug/mL	97
30) 4-Chloro-3-methylphenol	10.07	107	1752086	24.60 ug/mL	95
31) 2-Methylnaphthalene	10.28	142	3264730	23.10 ug/mL	99
34) Hexachlorocyclopentadiene	10.54	237	468094	25.42 ug/mL	97
35) 2,4,6-Trichlorophenol	10.74	196	1120946	24.28 ug/mL	99
36) 2,4,5-Trichlorophenol	10.79	196	1146386	23.90 ug/mL	97
37) 2-Chloronaphthalene	11.05	162	2951124	23.02 ug/mL	97
38) 2-Nitroaniline	11.23	65	1179779	25.03 ug/mL	96
39) 3-Nitroaniline	11.92	138	260459	27.55 ug/mL	96
40) 1-Methylnaphthalene	10.44	142	2933778	22.96 ug/mL	100
41) Dimethylphthalate	11.56	163	3567548	23.42 ug/mL	100
42) Acenaphthylene	11.71	152	3657246	21.64 ug/mL	99
43) 2,6-Dinitrotoluene	11.64	165	802201	23.86 ug/mL	99
44) Acenaphthene	11.99	153	2677372	23.28 ug/mL	99
45) 2,4-Dinitrophenol	12.09	184	482056	25.42 ug/mL	91
46) 4-Nitrophenol	12.20	109	577464	26.81 ug/mL	95
47) Dibenzofuran	12.28	168	4302153	23.15 ug/mL	99
48) 2,4-Dinitrotoluene	12.29	165	993037	23.56 ug/mL#	71
49) Fluorene	12.82	166	3208079	23.24 ug/mL	99
50) Diethylphthalate	12.70	149	3315962	23.63 ug/mL	98
51) 4-Chlorophenyl phenyl ethe	12.84	204	1628214	22.82 ug/mL	99
52) 4-Nitroaniline	12.91	138	299880m	18.55 ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.94	198	698931	24.13 ug/mL	96
57) Diphenylamine	13.04	169	1282434	17.04 ug/mL	100
58) 4-bromophenyl phenyl ether	13.63	248	912285	22.39 ug/mL	98
59) Hexachlorobenzene	13.71	284	881903	21.99 ug/mL	98
60) Pentachlorophenol	14.03	266	724941	24.78 ug/mL	98
61) Phenanthrene	14.36	178	4454171	22.45 ug/mL	98
62) Carbazole	14.71	167	1092566	10.80 ug/mL	95
63) Anthracene	14.44	178	4058029	21.92 ug/mL	99
64) Azobenzene	13.10	77	3951777	22.47 ug/mL	99
65) Di-n-Butylphthalate	15.34	149	5487829	23.12 ug/mL	99
66) Fluoranthene	16.28	202	4725737	22.85 ug/mL	99
67) alpha-BHC	13.64	183	701795	22.06 ug/mL	99
68) beta-BHC	13.98	181	624557	23.83 ug/mL	96
69) gamma-BHC	14.12	183	604865	22.36 ug/mL	98
70) delta-BHC	14.48	183	581371	22.93 ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.13	100	705490	23.13 ug/mL	98
72)	Aldrin	15.63	66	790030	22.57 ug/mL	98
73)	Heptachlor Epoxide	16.14	353	239677	22.97 ug/mL	99
74)	Endosulfan I	16.63	195	196544	22.69 ug/mL	97
75)	4,4'-DDE	16.85	246	1121838	23.11 ug/mL	99
76)	Dieldrin	16.97	79	995909	22.31 ug/mL	100
77)	Endrin	17.26	263	188451	24.66 ug/mL	99
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.38	235	1835383	22.56 ug/mL#	99
80)	Endosulfan Sulfate	17.85	272	221981	22.11 ug/mL	92
81)	4,4'-DDT	17.86	235	1447941	22.88 ug/mL	98
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.47	317	185836	23.85 ug/mL	97
84)	Methoxychlor	18.52	227	2831392	22.69 ug/mL	98
86)	Pyrene	16.64	202	4578880	23.24 ug/mL#	95
87)	Butylbenzylphthalate	17.75	149	2277825	24.38 ug/mL	97
88)	Benzo[a]anthracene	18.56	228	3328290	23.51 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.55	252	503428	30.60 ug/mL	92
90)	Chrysene	18.62	228	3189061	23.11 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.69	149	2863777	23.39 ug/mL	96
94)	Di-n-octylphthalate	19.69	149	4456368	26.92 ug/mL	100
95)	Benzo[b]fluoranthene	20.26	252	2464370	27.20 ug/mL	97
96)	Benzo[k]fluoranthene	20.30	252	2407528	23.81 ug/mL	97
97)	Benzo[a]pyrene	20.83	252	1919720	26.88 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	23.31	276	1026186	33.58 ug/mL	99
99)	Dibenzo[a,h]anthracene	23.38	278	976788	32.69 ug/mL	94
100)	Benzo[g,h,i]perylene	24.03	276	1142435	26.86 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0627608.D 8270.M Tue Jun 28 11:30:16 2005 ENV Page 3

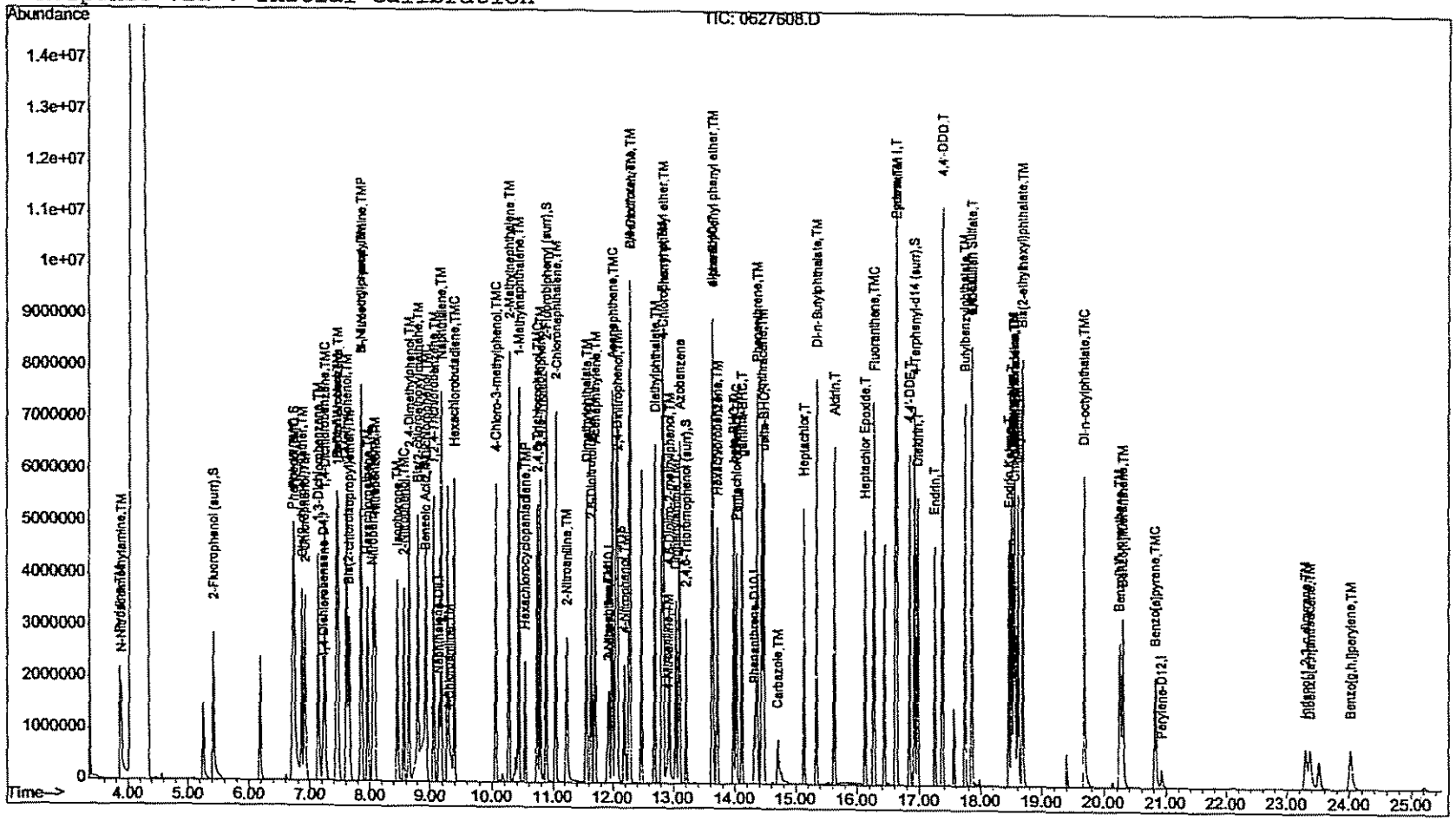
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D
Acq On : 27 Jun 2005 8:29 pm
Sample : SVCAL24
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005

Vial: 3
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

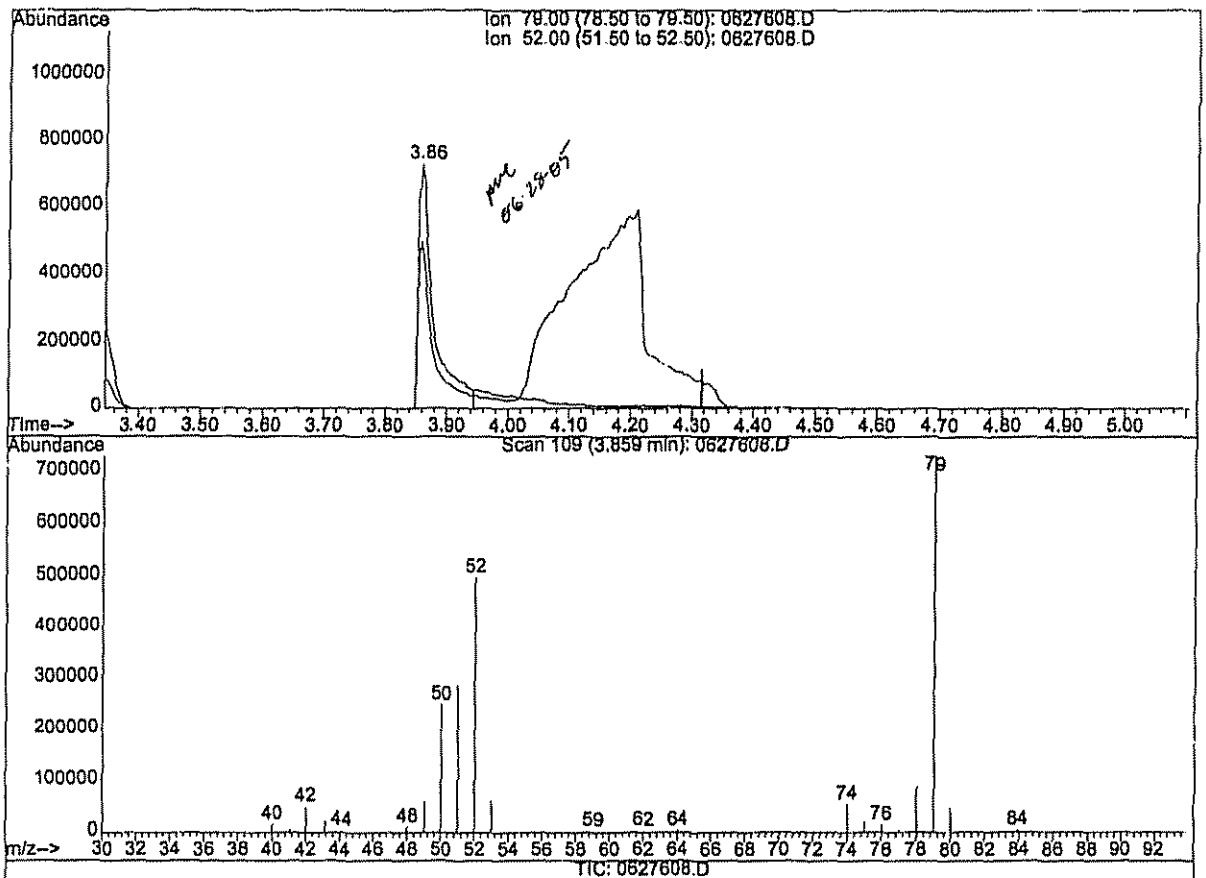


0627608.D 8270.M Tue Jun 28 11:30:20 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:20 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.86min 26.53ug/mL m

response 1263575

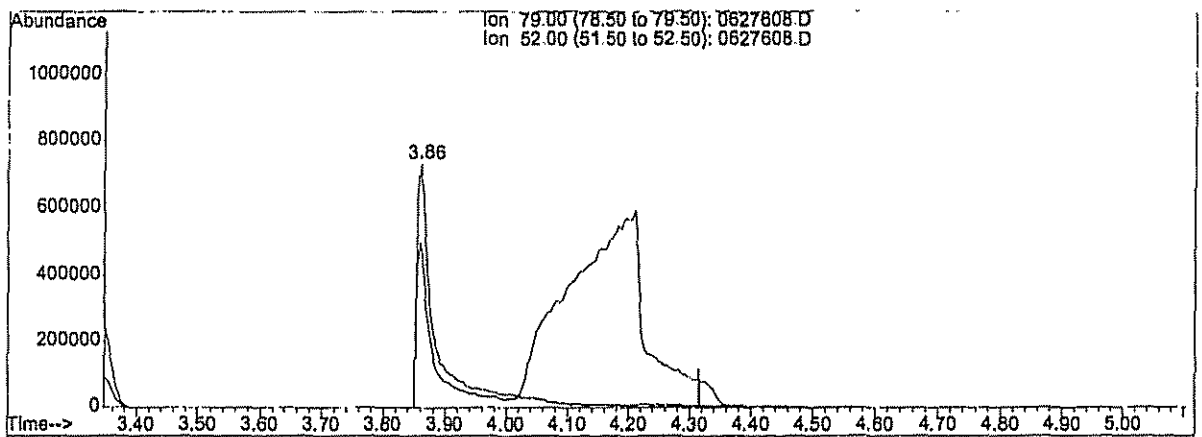
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	71.89#
0.00	0.00	0.00
0.00	0.00	0.00

0627608.D 8270.M Tue Jun 28 11:20:25 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:20 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.86min 32.86ug/mL

response 1564855

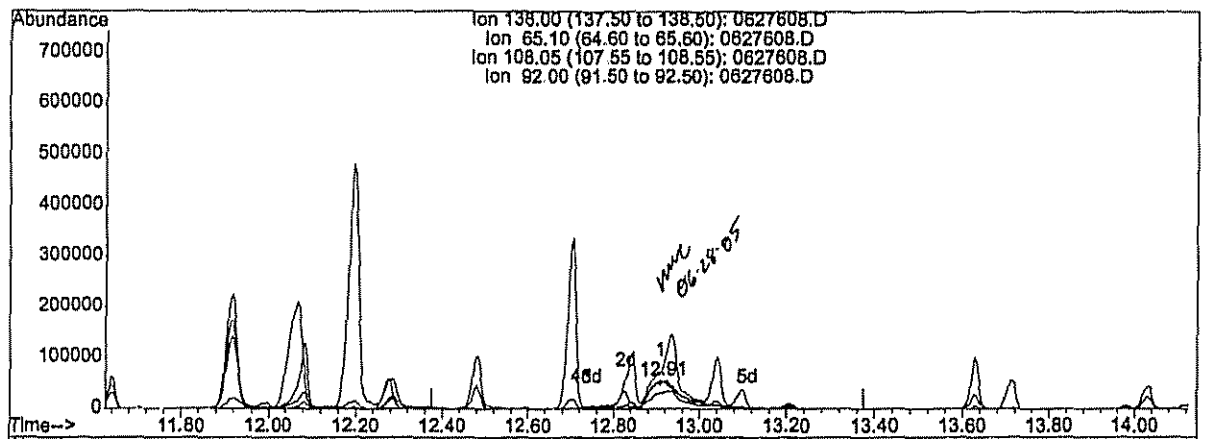
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	58.05
0.00	0.00	0.00
0.00	0.00	0.00

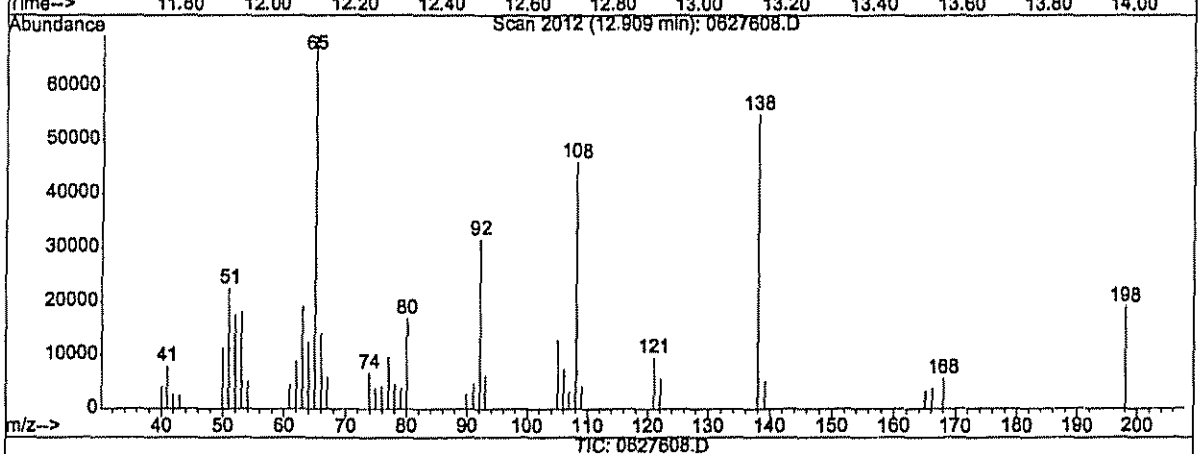
0627608.D 8270.M Tue Jun 28 11:20:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.91min 18.55ug/mL m

response 299880

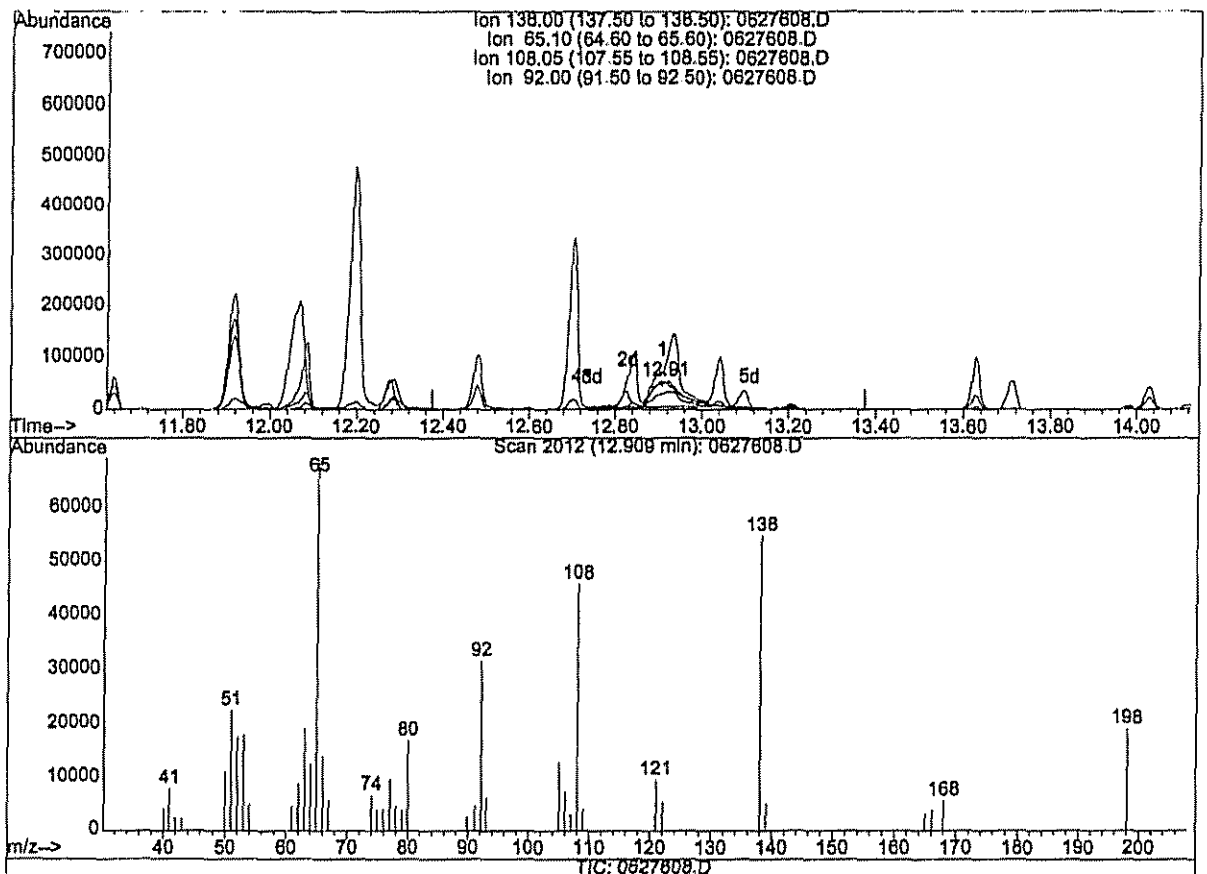
Ion	Exp%	Act%
138.00	100	100
65.10	102.50	126.83#
108.05	90.70	83.55
92.00	54.20	57.60

0627608.D 8270.M Tue Jun 28 11:21:10 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627608.D Vial: 3
Acq On : 27 Jun 2005 8:29 pm Operator: MRC
Sample : SVCAL24 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:20 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:19:57 2005
Response via : Multiple Level Calibration



(52) 4-Nitroaniline (TM)

12.91min 12.97ug/mL

response 209580

Ion	Exp%	Act%
138.00	100	100
65.10	102.50	98.69
108.05	90.70	80.47
92.00	54.20	55.73

0627608.D 8270.M Tue Jun 28 11:21:06 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D Vial: 2
Acq On : 27 Jun 2005 9:03 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:22 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:21:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.14	100	1298077	44.01 ug/mL	99
72)	Aldrin	15.64	66	1382026	40.57 ug/mL	95
73)	Heptachlor Epoxide	16.14	353	461621	45.22 ug/mL	100
74)	Endosulfan I	16.65	195	325467	38.42 ug/mL	93
75)	4,4'-DDE	16.86	246	2019975	42.31 ug/mL	99
76)	Dieldrin	16.98	79	1782099	40.81 ug/mL	100
77)	Endrin	17.26	263	333305	44.33 ug/mL	98
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.39	235	3234614	40.29 ug/mL	100
80)	Endosulfan Sulfate	17.86	272	315677	31.59 ug/mL#	89
81)	4,4'-DDT	17.87	235	2424111	38.79 ug/mL	96
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.48	317	304041	38.98 ug/mL	98
84)	Methoxychlor	18.52	227	4505574	36.47 ug/mL	99
86)	Pyrene	16.66	202	8526822	52.67 ug/mL#	94
87)	Butylbenzylphthalate	17.75	149	3778632	48.78 ug/mL	97
88)	Benzo[a]anthracene	18.57	228	5561619	47.11 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.56	252	981405	68.19 ug/mL	89
90)	Chrysene	18.63	228	5326013	46.24 ug/mL	98
91)	Bis(2-ethylhexyl)phthalate	18.70	149	4769058	47.18 ug/mL	96
94)	Di-n-octylphthalate	19.70	149	7012554	50.25 ug/mL	100
95)	Benzo[b]fluoranthene	20.27	252	3758831	48.46 ug/mL	98
96)	Benzo[k]fluoranthene	20.31	252	3586625	41.57 ug/mL	99
97)	Benzo[a]pyrene	20.84	252	3101235	50.83 ug/mL	96
98)	Indeno(1,2,3-c,d)pyrene	23.33	276	2099553	81.76 ug/mL	98
99)	Dibenzo[a,h]anthracene	23.40	278	1941305	77.19 ug/mL	96
100)	Benzo[g,h,i]perylene	24.05	276	2144228	59.56 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0627609.D 8270.M Tue Jun 28 11:30:29 2005 ENV Page 3

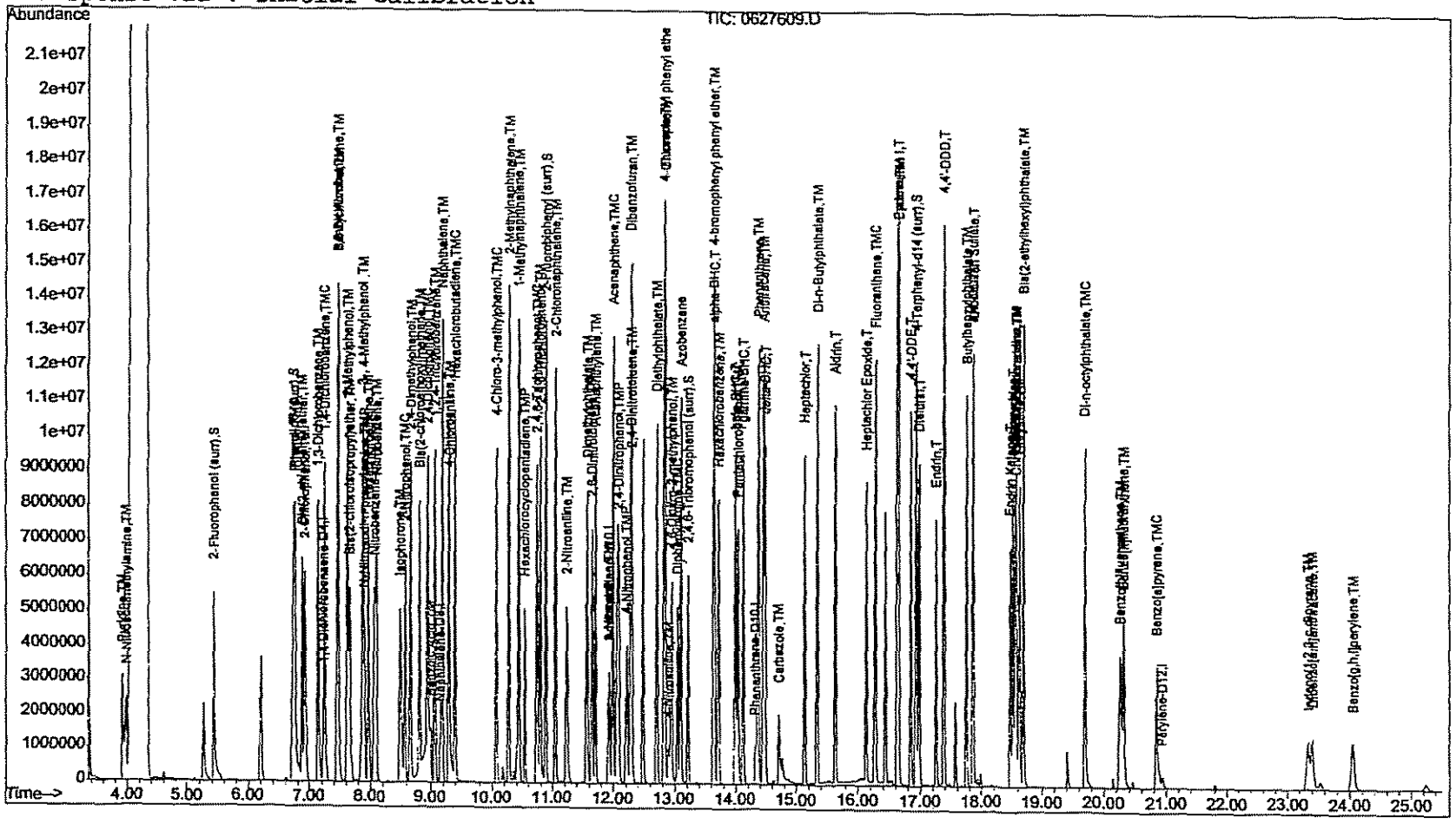
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D
Acq On : 27 Jun 2005 9:03 pm
Sample : SVCAL48
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:22 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

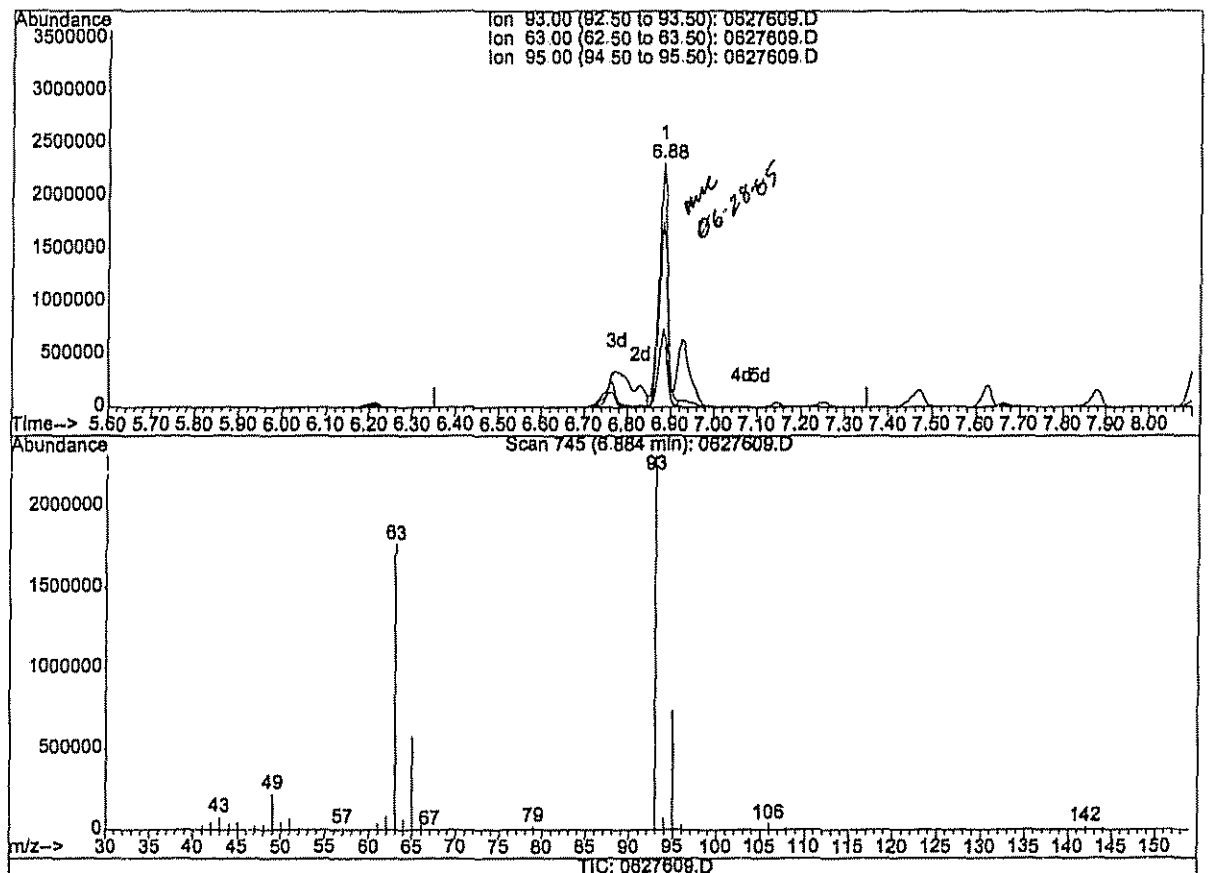
Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D Vial: 2
Acq On : 27 Jun 2005 9:03 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:22 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:21:41 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

6.88min 42.78ug/mL m

response 3310768

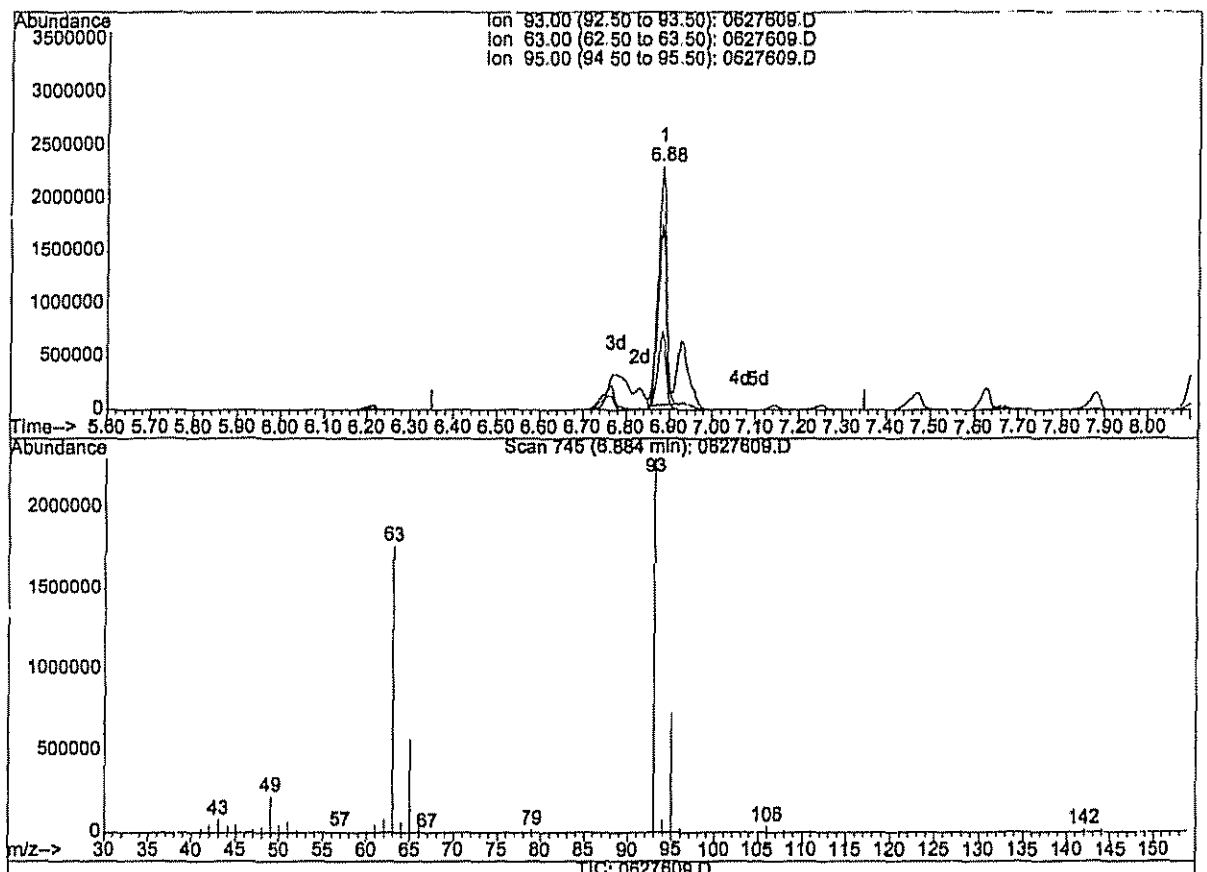
Ion	Exp%	Act%
93.00	100	100
63.00	73.90	76.56
95.00	32.70	31.98
0.00	0.00	0.00

0627609.D 8270.M Tue Jun 28 11:22:17 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D Vial: 2
Acq On : 27 Jun 2005 9:03 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:21 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:21:41 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

6.88min 40.19ug/mL

response 3110279

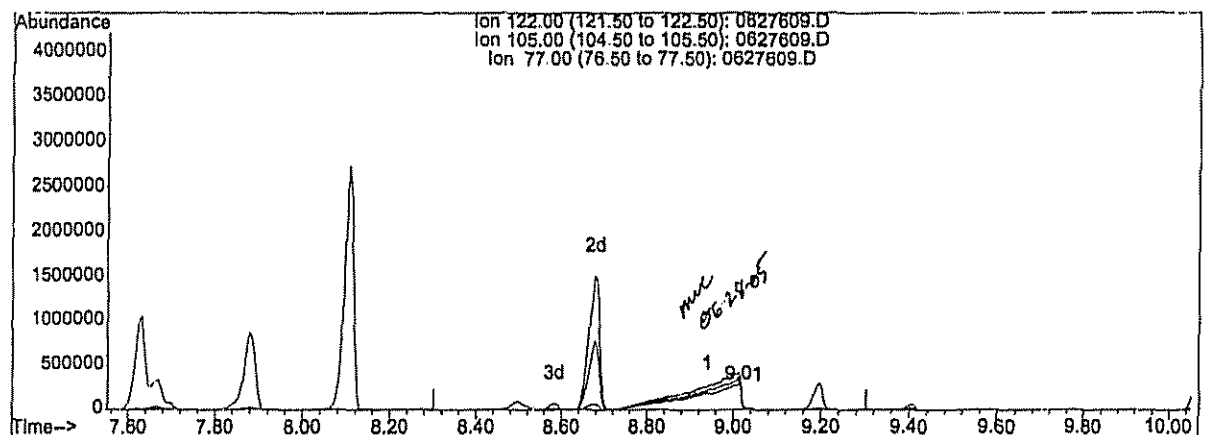
Ion	Exp%	Act%
93.00	100	100
63.00	73.90	77.72
95.00	32.70	32.73
0.00	0.00	0.00

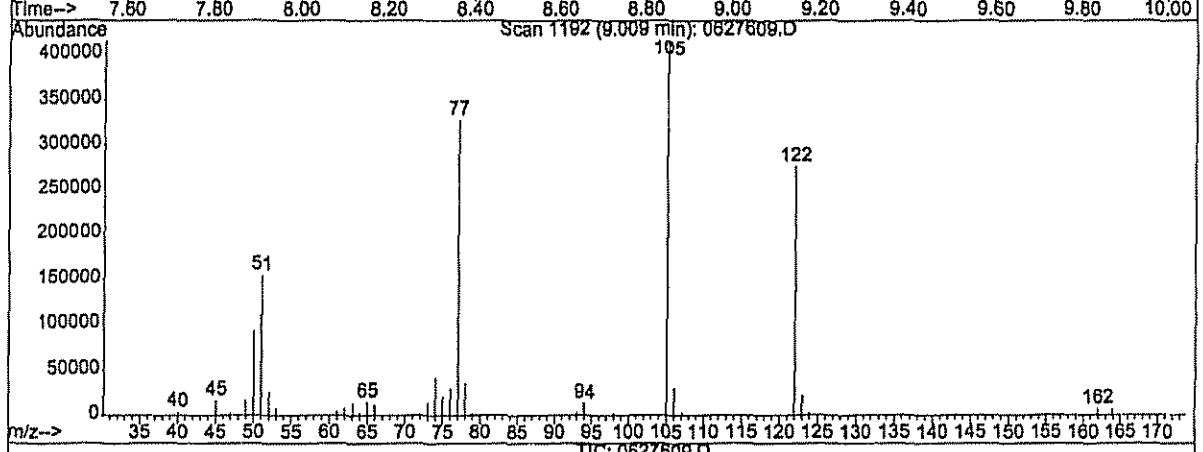
0627609.D 8270.M Tue Jun 28 11:22:12 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D Vial: 2
Acq On : 27 Jun 2005 9:03 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:22 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:21:41 2005
Response via : Multiple Level Calibration





TIC: 0627609.D

(23) Benzoic Acid (TM)

9.01min 58.66ug/mL m

response 2191443

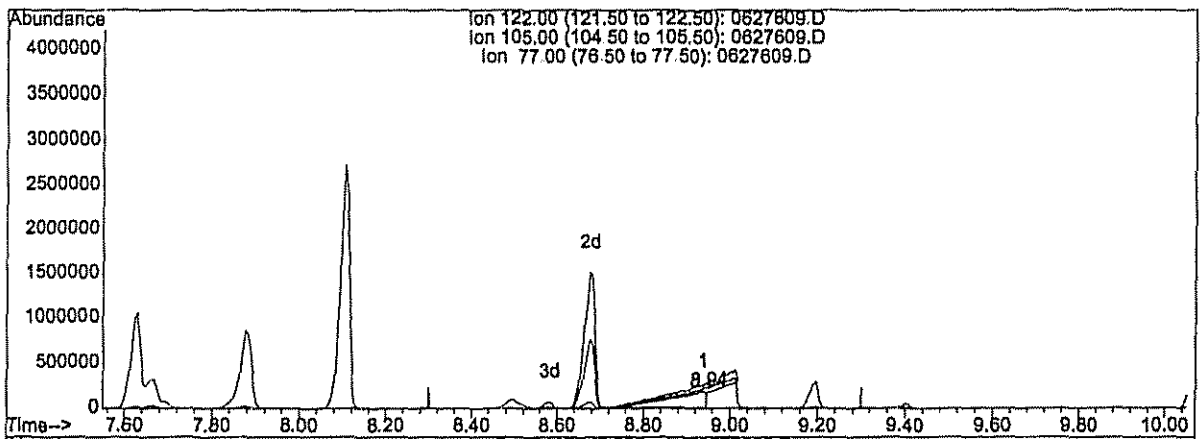
Ion	Exp%	Act%
122.00	100	100
105.00	145.20	0.00#
77.00	117.00	0.00#
0.00	0.00	0.00

0627609.D 8270.M Tue Jun 28 11:22:36 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6062705\0627609.D Vial: 2
Acq On : 27 Jun 2005 9:03 pm Operator: MRC
Sample : SVCAL48 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 11:22 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6062705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:21:41 2005
Response via : Multiple Level Calibration



(23) Benzoic Acid (TM)

8.94min 28.60ug/mL

response 1068329

Ion	Exp%	Act%
122.00	100	100
105.00	145.20	0.00#
77.00	117.00	0.00#
0.00	0.00	0.00

0627609.D 8270.M Tue Jun 28 11:22:31 2005 ENV

8270-BN CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	83	-0.04
2	TM	Pyridine	0.785	0.804	-2.4	76	-0.04
3	TM	N-Nitrosodimethylamine	0.668	0.751	-12.4	89	-0.04
4	TMC	Phenol	1.797	1.929	-7.3	84	-0.03
5	TM	Bis(2-chloroethyl)ether	1.397	1.540	-10.2	89	-0.04
6	TM	2-Chlorophenol	1.322	1.370	-3.6	83	-0.04
7	TM	Benzyl Alcohol	0.919	0.969	-5.4	83	-0.04
8	TM	1,3-Dichlorobenzene	1.306	1.363	-4.4	81	-0.04
9	TMC	1,4-Dichlorobenzene	1.341	1.403	-4.6	83	-0.04
10	TM	1,2-Dichlorobenzene	1.210	1.272	-5.1	82	-0.04
11	TM	2-Methylphenol	1.097	1.125	-2.6	81	-0.04
12	TM	3-, 4-Methylphenol	1.590	1.647	-3.6	81	-0.04
13	TM	Bis(2-chloroisopropyl)ether	1.644	1.748	-6.3	85	-0.04
14	TMP	N-Nitrosodi-n-propylamine	0.834	0.862	-3.4	82	-0.04
15	TM	Hexachloroethane	0.531	0.545	-2.6	80	-0.04
16	S	2-Fluorophenol (surr)	1.017	1.048	-3.0	84	-0.03
17	S	Phenol-d6 (surr)	1.587	1.700	-7.1	85	-0.03
18	I	Naphthalene-D8	1.000	1.000	0.0	83	-0.04
19	TM	Nitrobenzene	0.394	0.414	-5.1	84	-0.04
20	TM	Isophorone	0.582	0.583	-0.2	79	-0.04
21	TMC	2-Nitrophenol	0.183	0.180	1.6	81	-0.04
22	TM	2,4-Dimethylphenol	0.262	0.265	-1.1	80	-0.04
23	TM	Benzoic Acid	0.177	0.180	-1.7	84	-0.02
24	TM	Bis(2-chloroethoxy)methane	0.385	0.398	-3.4	83	-0.04
25	TMC	2,4-Dichlorophenol	0.265	0.280	-5.7	83	-0.04
26	TM	1,2,4-Trichlorobenzene	0.280	0.282	-0.7	81	-0.05
27	TM	Naphthalene	0.872	0.905	-3.8	82	-0.05
28	TM	4-Chloroaniline	0.148	0.113	23.6#	68	-0.02
29	TMC	Hexachlorobutadiene	0.177	0.181	-2.3	80	-0.05
30	TMC	4-Chloro-3-methylphenol	0.313	0.347	-10.9	87	-0.04
31	TM	2-Methylnaphthalene	0.622	0.655	-5.3	84	-0.04
32	S	Nitrobenzene-d5 (surr)	0.142	0.150	-5.6	83	-0.05
33	I	Acenaphthene-d10	1.000	1.000	0.0	83	-0.05
34	TMP	Hexachlorocyclopentadiene	0.141	0.136	3.5	74	-0.04
35	TMC	2,4,6-Trichlorophenol	0.354	0.370	-4.5	81	-0.04
36	TM	2,4,5-Trichlorophenol	0.369	0.408	-10.6	87	-0.04
37	TM	2-Chloronaphthalene	0.986	1.046	-6.1	84	-0.05
38	TM	2-Nitroaniline	0.364	0.386	-6.0	81	-0.04
39	TM	3-Nitroaniline	0.103	0.047#	54.4#	40#	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	0.981	1.035	-5.5	83	-0.05
41	TM	Dimethylphthalate	1.167	1.234	-5.7	83	-0.05
42	TM	Acenaphthylene	1.284	1.399	-9.0	84	-0.05
43	TM	2,6-Dinitrotoluene	0.257	0.269	-4.7	80	-0.04
44	TMC	Acenaphthene	0.883	0.925	-4.8	83	-0.05
45	TMP	2,4-Dinitrophenol	0.149	0.155	-4.0	84	-0.04
46	TMP	4-Nitrophenol	0.168	0.183	-8.9	88	-0.03
47	TM	Dibenzofuran	1.431	1.521	-6.3	85	-0.05
48	TM	2,4-Dinitrotoluene	0.325	0.342	-5.2	84	-0.04
49	TM	Fluorene	1.063	1.137	-7.0	84	-0.05
50	TM	Diethylphthalate	1.079	1.090	-1.0	80	-0.05
51	TM	4-Chlorophenyl phenyl ether	0.549	0.570	-3.8	83	-0.05
52	TM	4-Nitroaniline	0.139	0.136	2.2	78	-0.04
53	S	2-Fluorobiphenyl (surr)	1.121	1.163	-3.7	83	-0.05
54	S	2,4,6-Tribromophenol (surr)	0.117	0.127	-8.5	86	-0.05
55	I	Phenanthrene-D10	1.000	1.000	0.0	86	-0.05
56	TM	4,6-Dinitro-2-methylphenol	0.145	0.135	6.9	72	-0.04
57	TMC	Diphenylamine	0.417	0.380	8.9	76	-0.05
58	TM	4-bromophenyl phenyl ether	0.203	0.213	-4.9	84	-0.05
59	TM	Hexachlorobenzene	0.200	0.192	4.0	79	-0.05
60	TMC	Pentachlorophenol	0.147	0.140	4.8	78	-0.04
61	TM	Phenanthrene	0.990	1.026	-3.6	85	-0.05
62	TM	Carbazole	0.725	0.340	53.1#	46#	-0.04
63	TM	Anthracene	0.923	0.987	-6.9	88	-0.05
64		Azobenzene	0.873	0.892	-2.2	84	-0.05
65	TM	Di-n-Butylphthalate	1.189	1.181	0.7	80	-0.05
66	TMC	Fluoranthene	1.042	1.063	-2.0	82	-0.05
67	T	alpha-BHC	0.158	0.153	3.2	77	-0.05
68	T	beta-BHC	0.132	0.124	6.1	76	-0.04
69	T	gamma-BHC	0.135	0.130	3.7	79	-0.05
70	T	delta-BHC	0.128	0.123	3.9	79	-0.05
71	T	Heptachlor	0.150	0.147	2.0	80	-0.05
72	T	Aldrin	0.173	0.161	6.9	73	-0.05
73	T	Heptachlor Epoxide	0.052	0.051	1.9	78	-0.05
74	T	Endosulfan I	0.043	0.043#	0.0	80	-0.06
75	T	4,4'-DDE	0.245	0.234	4.5	78	-0.05
76	T	Dieldrin	0.223	0.197	11.7	73	-0.05
77	T	Endrin	0.038	0.037#	2.6	76	-0.05
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.410	0.392	4.4	77	-0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	0.054	0.046#	14.8	67	-0.05
81	T	4,4'-DDT	0.318	0.306	3.8	77	-0.05
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.040	0.032#	20.0	61	-0.05
84	T	Methoxychlor	0.626	0.565	9.7	68	-0.05
85	I	Chrysene-D12	1.000	1.000	0.0	67	-0.05
86	TM	Pyrene	1.500	1.822	-21.5#	83	-0.05
87	TM	Butylbenzylphthalate	0.709	0.805	-13.5	76	-0.05
88	TM	Benzo[a]anthracene	1.080	1.115	-3.2	67	-0.05
89	TM	3,3'-Dichlorobenzidine	0.131	0.124	5.3	73	-0.04
90	TM	Chrysene	1.055	1.084	-2.7	67	-0.05
91	TM	Bis(2-ethylhexyl)phthalate	0.918	0.983	-7.1	70	-0.05
92	S	4-Terphenyl-d14 (surr)	1.000	1.226	-22.6#	83	-0.05
93	I	Perylene-D12	1.000	1.000	0.0	55	-0.07
94	TMC	Di-n-octylphthalate	2.178	2.542	-16.7	66	-0.06
95	TM	Benzo[b]fluoranthene	1.212	1.339	-10.5	59	-0.06
96	TM	Benzo[k]fluoranthene	1.361	1.511	-11.0	58	-0.06
97	TMC	Benzo[a]pyrene	0.961	1.127	-17.3	63	-0.06
98	TM	Indeno(1,2,3-c,d)pyrene	0.409	0.670	-63.8#	91	-0.10
99	TM	Dibenzo[a,h]anthracene	0.399	0.693	-73.7#	89	-0.09
100	TM	Benzo[g,h,i]perylene	0.571	0.730	-27.8#	67	-0.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:42 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pm 07.12.05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.17	152	190008	4.00 ug/mL	-0.04
18) Naphthalene-D8	9.10	136	759114	4.00 ug/mL	-0.04
33) Acenaphthene-d10	11.88	164	431689	4.00 ug/mL	-0.05
55) Phenanthrene-D10	14.26	188	656771	4.00 ug/mL	-0.05
85) Chrysene-D12	18.51	240	372494	4.00 ug/mL	-0.05
93) Perylene-D12	20.85	264	200806	4.00 ug/mL	-0.07
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.37	112	298790	6.19 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 61.90%	
17) Phenol-d6 (surr)	6.66	99	484618	6.43 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 64.30%	
32) Nitrobenzene-d5 (surr)	8.00	128	170886	6.35 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 63.50%	
53) 2-Fluorobiphenyl (surr)	10.82	172	752759	6.22 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 62.20%	
54) 2,4,6-Tribromophenol (surr	13.15	330	82016	6.49 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 64.90%	
92) 4-Terphenyl-d14 (surr)	16.86	244	684961	7.35 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 73.50%	
Target Compounds					Qvalue
2) Pyridine	3.78	79	229150m	5.76 ug/mL	
3) N-Nitrosodimethylamine	3.77	74	214046	6.75 ug/mL	97
4) Phenol	6.68	94	549751	6.44 ug/mL	94
5) Bis(2-chloroethyl)ether	6.81	93	438806	6.61 ug/mL	99
6) 2-Chlorophenol	6.87	128	390544	6.22 ug/mL	99
7) Benzyl Alcohol	7.39	108	276079	6.32 ug/mL	96
8) 1,3-Dichlorobenzene	7.09	146	388604	6.26 ug/mL	93
9) 1,4-Dichlorobenzene	7.20	146	399808	6.27 ug/mL	99
10) 1,2-Dichlorobenzene	7.42	146	362504	6.30 ug/mL	96
11) 2-Methylphenol	7.56	107	320521	6.15 ug/mL	98
12) 3-, 4-Methylphenol	7.79	107	469288	6.21 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.60	45	498286	6.38 ug/mL	97
14) N-Nitrosodi-n-propylamine	7.80	70	245636	6.20 ug/mL#	95
15) Hexachloroethane	7.92	117	155267	6.16 ug/mL	96
19) Nitrobenzene	8.03	77	470976	6.30 ug/mL	99
20) Isophorone	8.40	82	663725	6.01 ug/mL	98
21) 2-Nitrophenol	8.52	139	205410	5.92 ug/mL	92
22) 2,4-Dimethylphenol	8.60	122	302096	6.07 ug/mL	93
23) Benzoic Acid	8.78	122	205178	6.09 ug/mL	99
24) Bis(2-chloroethoxy)methane	8.75	93	453095	6.21 ug/mL	97

(#) = qualifier out of range (m) = manual integration
0708602.D 8270.M Tue Jul 12 09:44:44 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:42 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.89	162	318839	6.33 ug/mL	98
26) 1,2,4-Trichlorobenzene	9.01	180	321081	6.04 ug/mL	97
27) Naphthalene	9.13	128	1030979	6.23 ug/mL	98
28) 4-Chloroaniline	9.27	127	128111	5.10 ug/mL#	93
29) Hexachlorobutadiene	9.35	225	206155	6.14 ug/mL	97
30) 4-Chloro-3-methylphenol	10.02	107	394935	6.64 ug/mL	98
31) 2-Methylnaphthalene	10.22	142	745622	6.32 ug/mL	99
34) Hexachlorocyclopentadiene	10.49	237	88111	5.73 ug/mL	91
35) 2,4,6-Trichlorophenol	10.69	196	239707	6.27 ug/mL	100
36) 2,4,5-Trichlorophenol	10.73	196	264231	6.64 ug/mL	98
37) 2-Chloronaphthalene	11.00	162	677121	6.36 ug/mL	99
38) 2-Nitroaniline	11.18	65	249691	6.36 ug/mL	98
39) 3-Nitroaniline	11.86	138	30187	2.65 ug/mL#	81
40) 1-Methylnaphthalene	10.38	142	670174	6.33 ug/mL	100
41) Dimethylphthalate	11.50	163	799364	6.34 ug/mL	99
42) Acenaphthylene	11.65	152	906000	6.54 ug/mL	100
43) 2,6-Dinitrotoluene	11.58	165	174251	6.27 ug/mL	93
44) Acenaphthene	11.94	153	598677	6.28 ug/mL	97
45) 2,4-Dinitrophenol	12.03	184	100524	6.25 ug/mL	99
46) 4-Nitrophenol	12.14	109	118428	6.54 ug/mL	96
47) Dibenzofuran	12.22	168	984595	6.38 ug/mL	100
48) 2,4-Dinitrotoluene	12.22	165	221232	6.32 ug/mL	94
49) Fluorene	12.76	166	736395	6.42 ug/mL	99
50) Diethylphthalate	12.64	149	705761	6.06 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	12.79	204	369093	6.22 ug/mL	94
52) 4-Nitroaniline	12.84	138	88244m	5.88 ug/mL	
56) 4,6-Dinitro-2-methylphenol	12.87	198	133128	5.59 ug/mL	97
57) Diphenylamine	12.98	169	374569	5.47 ug/mL	98
58) 4-bromophenyl phenyl ether	13.57	248	210273	6.30 ug/mL	93
59) Hexachlorobenzene	13.65	284	189025	5.77 ug/mL	98
60) Pentachlorophenol	13.98	266	137516	5.70 ug/mL	98
61) Phenanthrene	14.30	178	1011062	6.22 ug/mL	98
62) Carbazole	14.66	167	335332	2.82 ug/mL	95
63) Anthracene	14.38	178	972479	6.41 ug/mL	100
64) Azobenzene	13.04	77	879137	6.13 ug/mL	99
65) Di-n-Butylphthalate	15.28	149	1163754	5.96 ug/mL	99
66) Fluoranthene	16.21	202	1047578	6.13 ug/mL	98
67) alpha-BHC	13.58	183	150252	5.80 ug/mL	100
68) beta-BHC	13.92	181	122359	5.66 ug/mL	97
69) gamma-BHC	14.06	183	128555	5.82 ug/mL	97
70) delta-BHC	14.42	183	121212	5.79 ug/mL	97

(#) = qualifier out of range (m) = manual integration
0708602.D 8270.M Tue Jul 12 09:44:45 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:42 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.08	100	144981	5.89 ug/mL	97
72)	Aldrin	15.57	66	158651	5.58 ug/mL	100
73)	Heptachlor Epoxide	16.08	353	50388	5.86 ug/mL	93
74)	Endosulfan I	16.57	195	42582	5.98 ug/mL#	89
75)	4,4'-DDE	16.79	246	230382	5.74 ug/mL	97
76)	Dieldrin	16.92	79	194022	5.31 ug/mL	97
77)	Endrin	17.20	263	36104	5.73 ug/mL	100
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.32	235	386032	5.74 ug/mL	100
80)	Endosulfan Sulfate	17.80	272	45417	5.12 ug/mL	97
81)	4,4'-DDT	17.80	235	301716	5.78 ug/mL	97
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.41	317	31280	4.81 ug/mL	98
84)	Methoxychlor	18.46	227	556169	5.41 ug/mL	100
86)	Pyrene	16.57	202	1018035	7.29 ug/mL	98
87)	Butylbenzylphthalate	17.69	149	449779	6.81 ug/mL	97
88)	Benzo[a]anthracene	18.50	228	623137	6.20 ug/mL	98
89)	3,3'-Dichlorobenzidine	18.49	252	69449	5.94 ug/mL#	89
90)	Chrysene	18.56	228	605687	6.17 ug/mL	96
91)	Bis(2-ethylhexyl)phthalate	18.63	149	549263	6.43 ug/mL	99
94)	Di-n-octylphthalate	19.63	149	765557	7.00 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	403264	6.63 ug/mL	95
96)	Benzo[k]fluoranthene	20.23	252	455253	6.66 ug/mL	95
97)	Benzo[a]pyrene	20.75	252	339440	7.04 ug/mL	96
98)	Indeno(1,2,3-c,d)pyrene	23.19	276	201757	8.20 ug/mL	98
99)	Dibenzo[a,h]anthracene	23.26	278	208785	8.40 ug/mL	97
100)	Benzo[g,h,i]perylene	23.89	276	219898	7.21 ug/mL	96

(#) = qualifier out of range (m) = manual integration

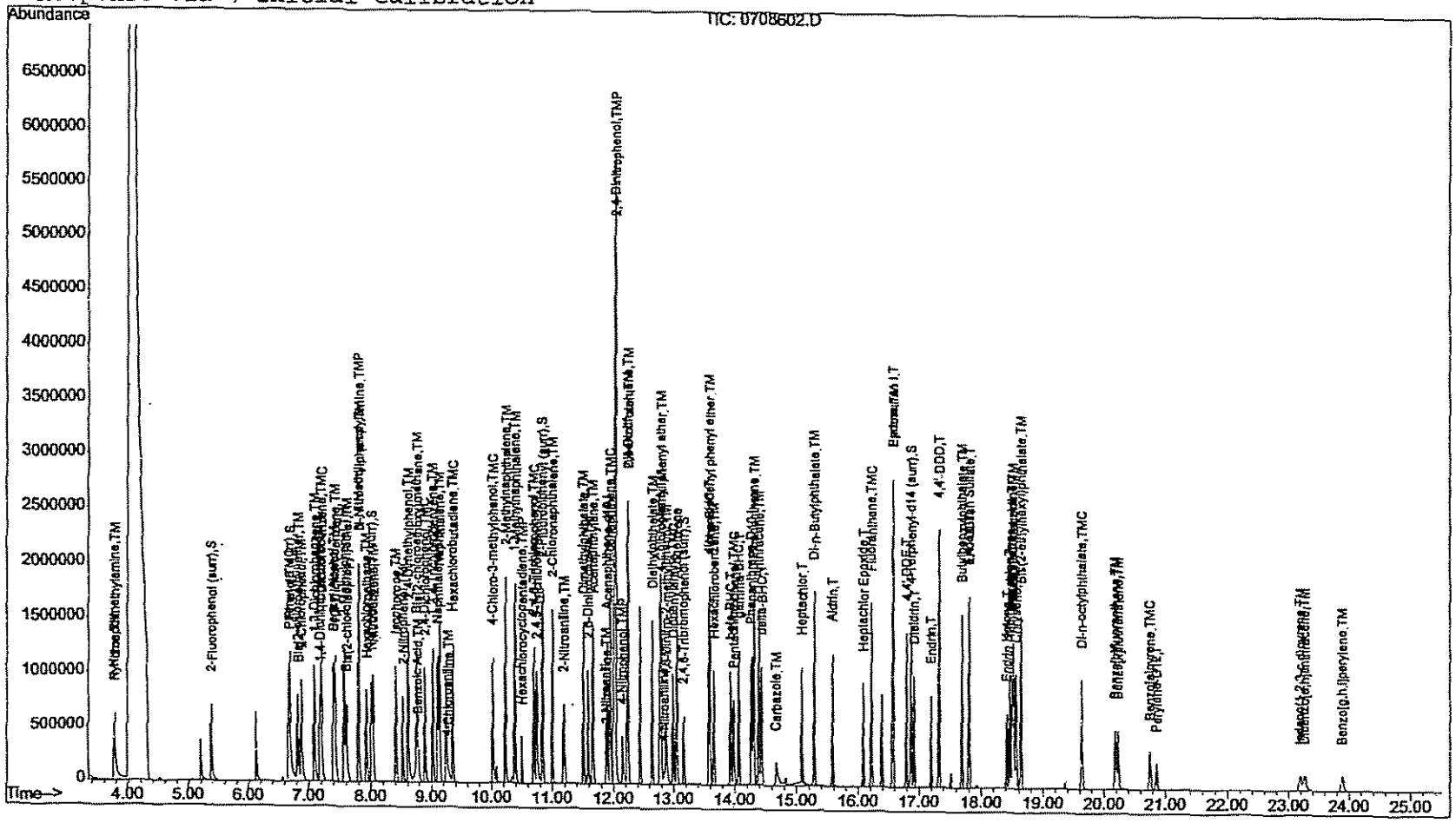
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D
Acq On : 8 Jul 2005 2:29 pm
Sample : SVCVS6
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:42 2005

Vial: 2
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration

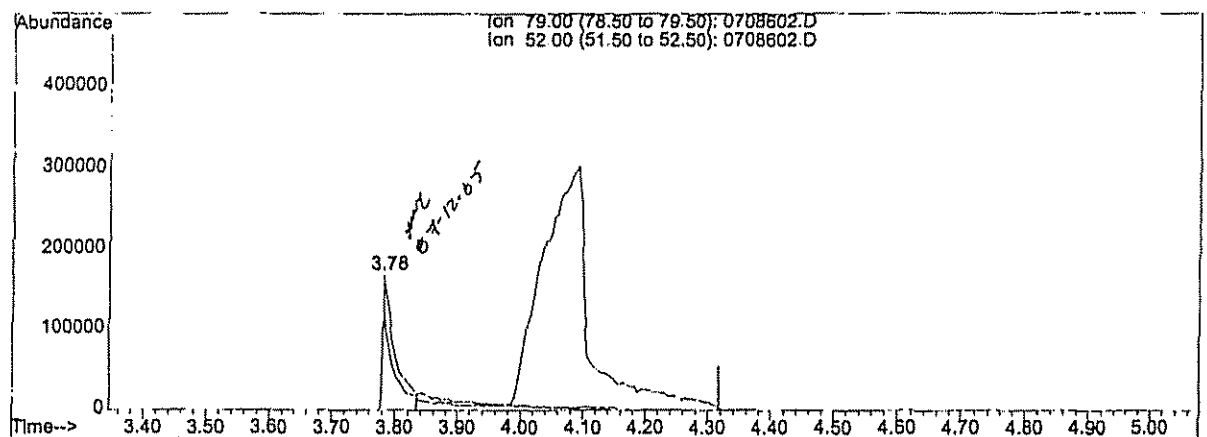


0708602.D 8270.M Tue Jul 12 09:44:49 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:41 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.78min 5.76ug/mL m

response 229150

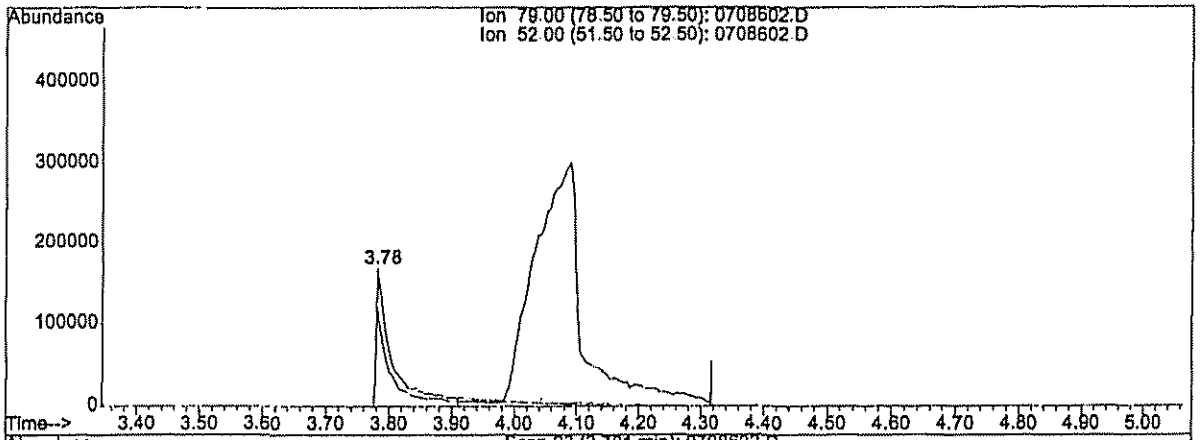
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	74.51#
0.00	0.00	0.00
0.00	0.00	0.00

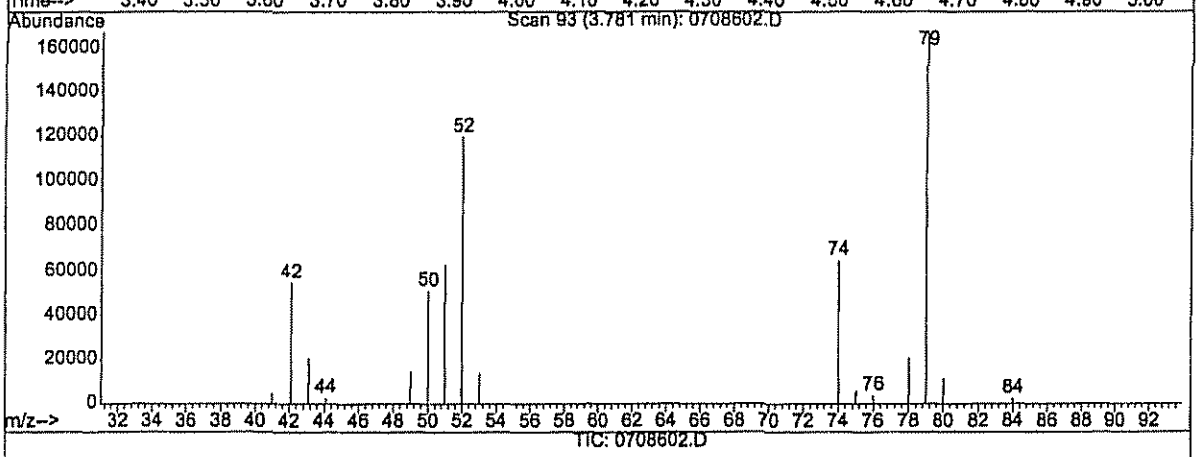
0708602.D 8270.M Tue Jul 12 09:41:58 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 8 14:55 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Multiple Level Calibration





TIC: 0708602.D

(2) Pyridine (TM)

3.78min 7.23ug/mL

response 293995

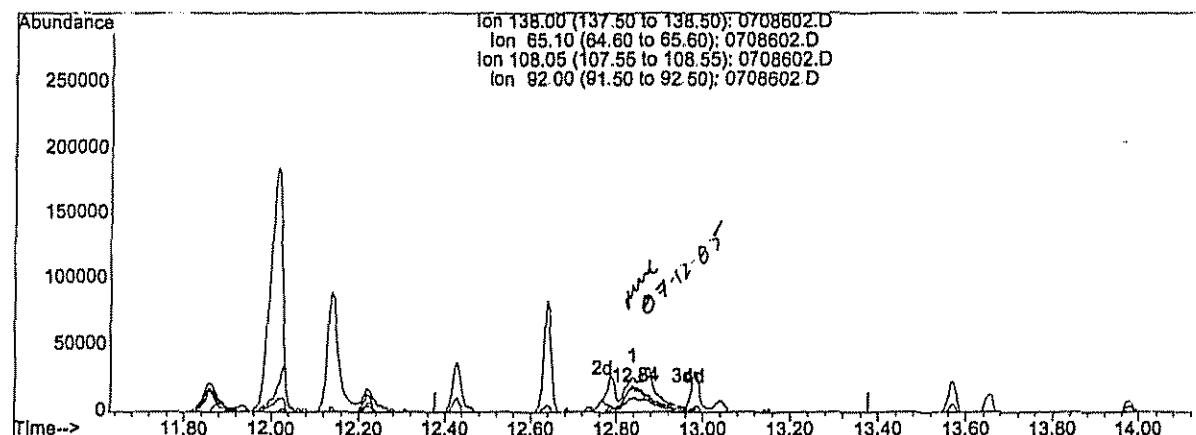
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	58.08
0.00	0.00	0.00
0.00	0.00	0.00

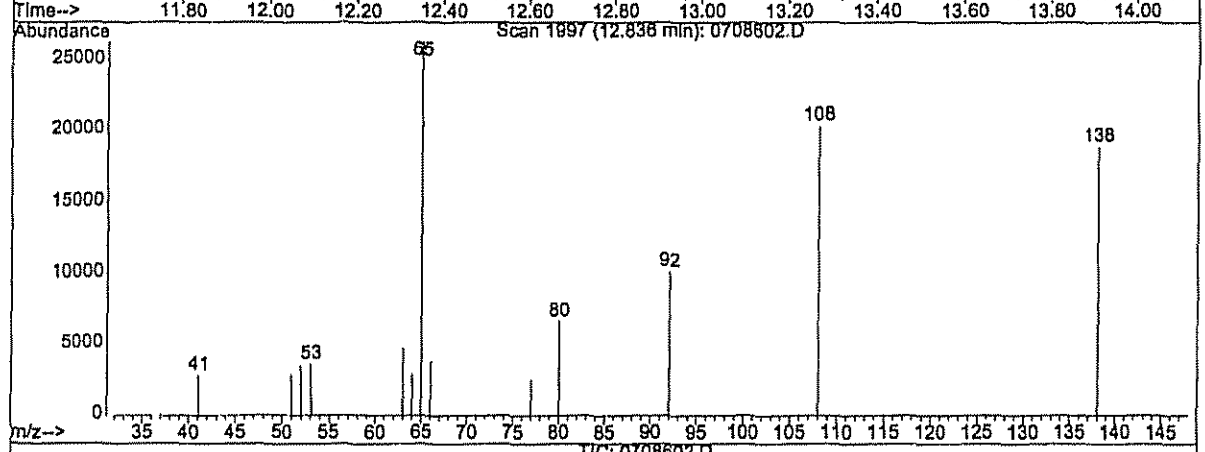
0708602.D 8270.M Tue Jul 12 09:41:53 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:42 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.84min 5.88ug/mL m

response 88244

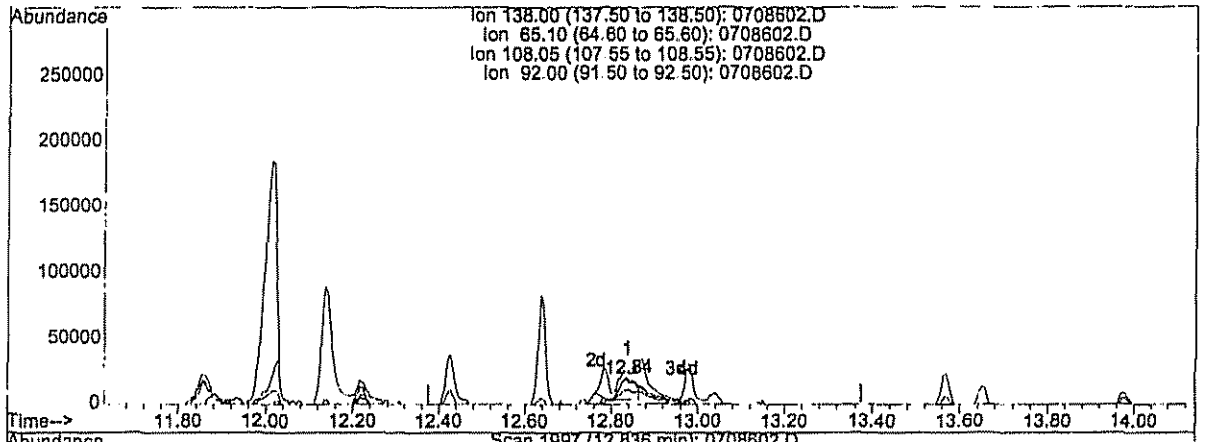
Ion	Exp%	Act%
138.00	100	100
65.10	102.50	139.08#
108.05	90.70	107.66
92.00	54.20	53.58

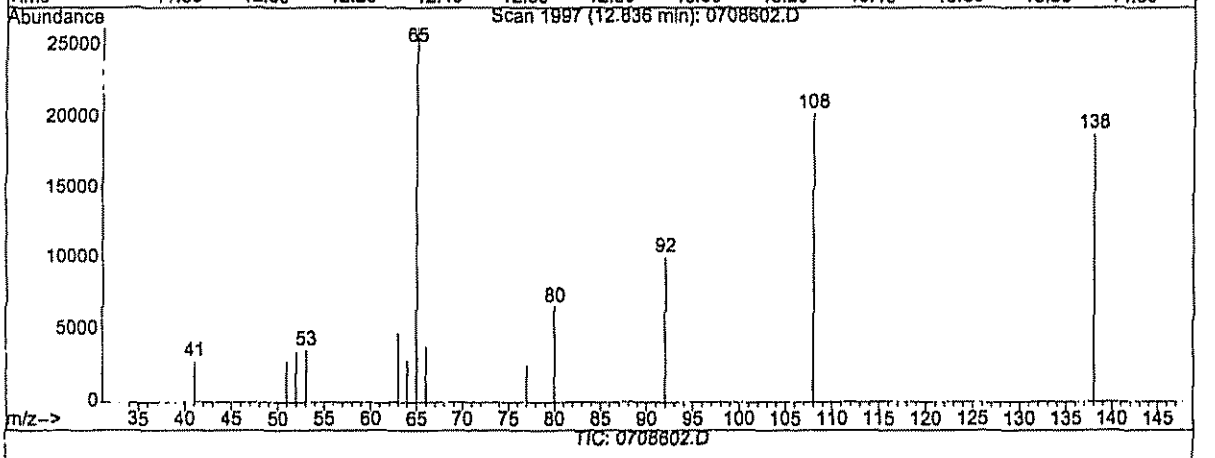
0708602.D 8270.M Tue Jul 12 09:42:16 2005 , ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6070805\0708602.D Vial: 2
Acq On : 8 Jul 2005 2:29 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 9:41 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Multiple Level Calibration





(52) 4-Nitroaniline (TM)

12.84min 2.69ug/mL

response 40390

Ion	Exp%	Act%
138.00	100	100
65.10	102.50	35.48#
108.05	90.70	111.65#
92.00	54.20	38.69#

0708602.D 8270.M Tue Jul 12 09:42:12 2005 ENV

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	81	-0.04
2	TM	Pyridine	0.785	0.962	-22.5#	90	-0.04
3	TM	N-Nitrosodimethylamine	0.668	0.745	-11.5	87	-0.05
4	TMC	Phenol	1.797	1.898	-5.6	82	-0.03
5	TM	Bis(2-chloroethyl)ether	1.397	1.511	-8.2	86	-0.05
6	TM	2-Chlorophenol	1.322	1.338	-1.2	80	-0.04
7	TM	Benzyl Alcohol	0.919	0.976	-6.2	82	-0.04
8	TM	1,3-Dichlorobenzene	1.306	1.347	-3.1	79	-0.04
9	TMC	1,4-Dichlorobenzene	1.341	1.387	-3.4	81	-0.04
10	TM	1,2-Dichlorobenzene	1.210	1.231	-1.7	78	-0.05
11	TM	2-Methylphenol	1.097	1.153	-5.1	82	-0.04
12	TM	3-, 4-Methylphenol	1.590	1.649	-3.7	80	-0.04
13	TM	Bis(2-chloroisopropyl)ether	1.644	1.692	-2.9	81	-0.04
14	TMP	N-Nitrosodi-n-propylamine	0.834	0.842	-1.0	79	-0.05
15	TM	Hexachloroethane	0.531	0.525	1.1	76	-0.05
16	S	2-Fluorophenol (surr)	1.017	1.006	1.1	79	-0.03
17	S	Phenol-d6 (surr)	1.587	1.669	-5.2	82	-0.03
18	I	Naphthalene-D8	1.000	1.000	0.0	81	-0.05
19	TM	Nitrobenzene	0.394	0.415	-5.3	82	-0.05
20	TM	Isophorone	0.582	0.569	2.2	76	-0.05
21	TMC	2-Nitrophenol	0.183	0.180	1.6	79	-0.04
22	TM	2,4-Dimethylphenol	0.262	0.268	-2.3	79	-0.04
23	TM	Benzoic Acid	0.177	0.183	-3.4	83	-0.02
24	TM	Bis(2-chloroethoxy)methane	0.385	0.398	-3.4	82	-0.04
25	TMC	2,4-Dichlorophenol	0.265	0.283	-6.8	82	-0.04
26	TM	1,2,4-Trichlorobenzene	0.280	0.282	-0.7	79	-0.05
27	TM	Naphthalene	0.872	0.905	-3.8	81	-0.05
28	TM	4-Chloroaniline	0.148	0.139	6.1	83	-0.01
29	TMC	Hexachlorobutadiene	0.177	0.175	1.1	76	-0.05
30	TMC	4-Chloro-3-methylphenol	0.313	0.334	-6.7	82	-0.04
31	TM	2-Methylnaphthalene	0.622	0.651	-4.7	82	-0.05
32	S	Nitrobenzene-d5 (surr)	0.142	0.149	-4.9	81	-0.04
33	I	Acenaphthene-d10	1.000	1.000	0.0	81	-0.05
34	TMP	Hexachlorocyclopentadiene	0.141	0.112	20.6#	59	-0.05
35	TMC	2,4,6-Trichlorophenol	0.354	0.372	-5.1	79	-0.04
36	TM	2,4,5-Trichlorophenol	0.369	0.402	-8.9	84	-0.04
37	TM	2-Chloronaphthalene	0.986	1.028	-4.3	81	-0.05
38	TM	2-Nitroaniline	0.364	0.383	-5.2	78	-0.04
39	TM	3-Nitroaniline	0.103	0.051	50.5#	43#	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	0.981	1.019	-3.9	80	-0.05
41	TM	Dimethylphthalate	1.167	1.219	-4.5	80	-0.05
42	TM	Acenaphthylene	1.284	1.383	-7.7	81	-0.05
43	TM	2,6-Dinitrotoluene	0.257	0.267	-3.9	78	-0.05
44	TMC	Acenaphthene	0.883	0.909	-2.9	80	-0.05
45	TMP	2,4-Dinitrophenol	0.149	0.149	0.0	78	-0.04
46	TMP	4-Nitrophenol	0.168	0.164	2.4	77	-0.02
47	TM	Dibenzofuran	1.431	1.506	-5.2	82	-0.05
48	TM	2,4-Dinitrotoluene	0.325	0.331	-1.8	80	-0.04
49	TM	Fluorene	1.063	1.118	-5.2	81	-0.05
50	TM	Diethylphthalate	1.079	1.066	1.2	77	-0.05
51	TM	4-Chlorophenyl phenyl ether	0.549	0.562	-2.4	79	-0.05
52	TM	4-Nitroaniline	0.139	0.124	10.8	70	-0.03
53	S	2-Fluorobiphenyl (surr)	1.121	1.166	-4.0	81	-0.05
54	S	2,4,6-Tribromophenol (surr)	0.117	0.122	-4.3	81	-0.05
55	I	Phenanthrene-D10	1.000	1.000	0.0	82	-0.05
56	TM	4,6-Dinitro-2-methylphenol	0.145	0.138	4.8	70	-0.04
57	TMC	Diphenylamine	0.417	0.401	3.8	76	-0.05
58	TM	4-bromophenyl phenyl ether	0.203	0.209	-3.0	78	-0.05
59	TM	Hexachlorobenzene	0.200	0.190	5.0	75	-0.05
60	TMC	Pentachlorophenol	0.147	0.138	6.1	74	-0.04
61	TM	Phenanthrene	0.990	1.031	-4.1	81	-0.05
62	TM	Carbazole	0.725	0.452	37.7#	58	-0.03
63	TM	Anthracene	0.923	0.986	-6.8	84	-0.05
64		Azobenzene	0.873	0.895	-2.5	80	-0.05
65	TM	Di-n-Butylphthalate	1.189	1.192	-0.3	77	-0.05
66	TMC	Fluoranthene	1.042	1.051	-0.9	78	-0.05
67	T	alpha-BHC	0.158	0.151	4.4	72	-0.05
68	T	beta-BHC	0.132	0.128	3.0	74	-0.04
69	T	gamma-BHC	0.135	0.131	3.0	75	-0.05
70	T	delta-BHC	0.128	0.119	7.0	73	-0.04
71	T	Heptachlor	0.150	0.148	1.3	77	-0.05
72	T	Aldrin	0.173	0.165	4.6	72	-0.05
73	T	Heptachlor Epoxide	0.052	0.051	1.9	74	-0.05
74	T	Endosulfan I	0.043	0.043#	0.0	76	-0.06
75	T	4,4'-DDE	0.245	0.230	6.1	73	-0.05
76	T	Dieldrin	0.223	0.205	8.1	72	-0.05
77	T	Endrin	0.038	0.038#	0.0	74	-0.06
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-19.14#
79	T	4,4'-DDD	0.410	0.367	10.5	69	-0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 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	0.054	0.045#	16.7	62	-0.05
81	T	4,4'-DDT	0.318	0.292	8.2	70	-0.05
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-20.71#
83	T	Endrin Ketone	0.040	0.030#	25.0#	55	-0.05
84	T	Methoxychlor	0.626	0.529	15.5	60	-0.05
85	I	Chrysene-D12	1.000	1.000	0.0	60	-0.05
86	TM	Pyrene	1.500	1.851	-23.4#	76	-0.05
87	TM	Butylbenzylphthalate	0.709	0.812	-14.5	68	-0.06
88	TM	Benzo[a]anthracene	1.080	1.118	-3.5	60	-0.05
89	TM	3,3'-Dichlorobenzidine	0.131	0.136	-3.8	71	-0.04
90	TM	Chrysene	1.055	1.096	-3.9	61	-0.05
91	TM	Bis(2-ethylhexyl)phthalate	0.918	0.994	-8.3	63	-0.06
92	S	4-Terphenyl-d14 (surr)	1.000	1.222	-22.2#	75	-0.05
93	I	Perylene-D12	1.000	1.000	0.0	54	-0.07
94	TMC	Di-n-octylphthalate	2.178	2.384	-9.5	61	-0.06
95	TM	Benzo[b]fluoranthene	1.212	1.340	-10.6	58	-0.06
96	TM	Benzo[k]fluoranthene	1.361	1.469	-7.9	56	-0.06
97	TMC	Benzo[a]pyrene	0.961	1.133	-17.9	63	-0.07
98	TM	Indeno(1,2,3-c,d)pyrene	0.409	0.703	-71.9#	94	-0.11
99	TM	Dibenzo[a,h]anthracene	0.399	0.751	-88.2#	96	-0.10
100	TM	Benzo[g,h,i]perylene	0.571	0.799	-39.9#	72	-0.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 11 15:20 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

07-12-05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.17	152	186966	4.00 ug/mL	-0.04
18) Naphthalene-D8	9.09	136	743462	4.00 ug/mL	-0.05
33) Acenaphthene-d10	11.88	164	421758	4.00 ug/mL	-0.05
55) Phenanthrene-D10	14.26	188	626379	4.00 ug/mL	-0.05
85) Chrysene-D12	18.51	240	334233	4.00 ug/mL	-0.05
93) Perylene-D12	20.85	264	198503	4.00 ug/mL	-0.07
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.37	112	282173	5.94 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 59.40%	
17) Phenol-d6 (surr)	6.66	99	468057	6.31 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 63.10%	
32) Nitrobenzene-d5 (surr)	8.00	128	166256	6.31 ug/mL	-0.04
Spiked Amount 10.000			Recovery	= 63.10%	
53) 2-Fluorobiphenyl (surr)	10.82	172	737829	6.24 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 62.40%	
54) 2,4,6-Tribromophenol (surr	13.15	330	77277	6.26 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 62.60%	
92) 4-Terphenyl-d14 (surr)	16.86	244	612839	7.33 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 73.30%	
Target Compounds					Qvalue
2) Pyridine	3.78	79	269832	6.78 ug/mL	94
3) N-Nitrosodimethylamine	3.76	74	209061	6.70 ug/mL	96
4) Phenol	6.68	94	532368	6.34 ug/mL	96
5) Bis(2-chloroethyl)ether	6.81	93	423806	6.49 ug/mL	97
6) 2-Chlorophenol	6.87	128	375361	6.07 ug/mL	98
7) Benzyl Alcohol	7.39	108	273671	6.37 ug/mL	95
8) 1,3-Dichlorobenzene	7.09	146	377656	6.19 ug/mL	97
9) 1,4-Dichlorobenzene	7.20	146	388868	6.20 ug/mL	98
10) 1,2-Dichlorobenzene	7.41	146	345252	6.10 ug/mL	96
11) 2-Methylphenol	7.56	107	323496	6.31 ug/mL	98
12) 3-, 4-Methylphenol	7.79	107	462354	6.22 ug/mL	97
13) Bis(2-chloroisopropyl)ethe	7.60	45	474629	6.17 ug/mL	99
14) N-Nitrosodi-n-propylamine	7.79	70	236177	6.06 ug/mL	97
15) Hexachloroethane	7.91	117	147222	5.94 ug/mL	99
19) Nitrobenzene	8.03	77	463321	6.33 ug/mL	99
20) Isophorone	8.40	82	634350	5.87 ug/mL	98
21) 2-Nitrophenol	8.52	139	200546	5.90 ug/mL	97
22) 2,4-Dimethylphenol	8.60	122	299377	6.14 ug/mL	99
23) Benzoic Acid	8.78	122	203695	6.16 ug/mL	96
24) Bis(2-chloroethoxy)methane	8.75	93	443877	6.21 ug/mL	100

(#) = qualifier out of range (m) = manual integration
0711602.D 8270.M Tue Jul 12 09:59:39 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 11 15:20 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.89	162	315652	6.40	ug/mL	99
26)	1,2,4-Trichlorobenzene	9.01	180	314188	6.04	ug/mL	97
27)	Naphthalene	9.13	128	1008891	6.23	ug/mL	99
28)	4-Chloroaniline	9.28	127	155194	6.12	ug/mL#	87
29)	Hexachlorobutadiene	9.34	225	194625	5.92	ug/mL	95
30)	4-Chloro-3-methylphenol	10.02	107	372498	6.40	ug/mL	96
31)	2-Methylnaphthalene	10.22	142	725523	6.27	ug/mL	99
34)	Hexachlorocyclopentadiene	10.49	237	70792	4.89	ug/mL	96
35)	2,4,6-Trichlorophenol	10.69	196	235649	6.30	ug/mL	98
36)	2,4,5-Trichlorophenol	10.74	196	254073	6.53	ug/mL	94
37)	2-Chloronaphthalene	10.99	162	650391	6.26	ug/mL	97
38)	2-Nitroaniline	11.18	65	242426	6.32	ug/mL	96
39)	3-Nitroaniline	11.86	138	32263	2.98	ug/mL	96
40)	1-Methylnaphthalene	10.38	142	644887	6.24	ug/mL	100
41)	Dimethylphthalate	11.50	163	771431	6.27	ug/mL	100
42)	Acenaphthylene	11.65	152	875193	6.47	ug/mL	99
43)	2,6-Dinitrotoluene	11.58	165	168824	6.22	ug/mL	99
44)	Acenaphthene	11.93	153	574800	6.17	ug/mL	99
45)	2,4-Dinitrophenol	12.03	184	94105	5.99	ug/mL	96
46)	4-Nitrophenol	12.15	109	103996	5.88	ug/mL	98
47)	Dibenzofuran	12.22	168	952946	6.32	ug/mL	97
48)	2,4-Dinitrotoluene	12.22	165	209474	6.12	ug/mL	100
49)	Fluorene	12.76	166	707419	6.31	ug/mL	100
50)	Diethylphthalate	12.64	149	674447	5.93	ug/mL	99
51)	4-Chlorophenyl phenyl ethe	12.78	204	355326	6.13	ug/mL	99
52)	4-Nitroaniline	12.84	138	78266	5.34	ug/mL	89
56)	4,6-Dinitro-2-methylphenol	12.87	198	130046	5.72	ug/mL	99
57)	Diphenylamine	12.98	169	376820	5.77	ug/mL	98
58)	4-bromophenyl phenyl ether	13.57	248	196282	6.17	ug/mL	92
59)	Hexachlorobenzene	13.65	284	178125	5.70	ug/mL	97
60)	Pentachlorophenol	13.98	266	129892	5.65	ug/mL	97
61)	Phenanthrene	14.30	178	968880	6.25	ug/mL	98
62)	Carbazole	14.67	167	424802	3.74	ug/mL#	96
63)	Anthracene	14.38	178	926682	6.41	ug/mL	99
64)	Azobenzene	13.04	77	840927	6.15	ug/mL	99
65)	Di-n-Butylphthalate	15.28	149	1119988	6.01	ug/mL	100
66)	Fluoranthene	16.21	202	987058	6.05	ug/mL	98
67)	alpha-BHC	13.58	183	142053	5.75	ug/mL	99
68)	beta-BHC	13.92	181	120218	5.83	ug/mL	99
69)	gamma-BHC	14.06	183	122928	5.83	ug/mL	99
70)	delta-BHC	14.43	183	112190	5.62	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 11 15:20 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

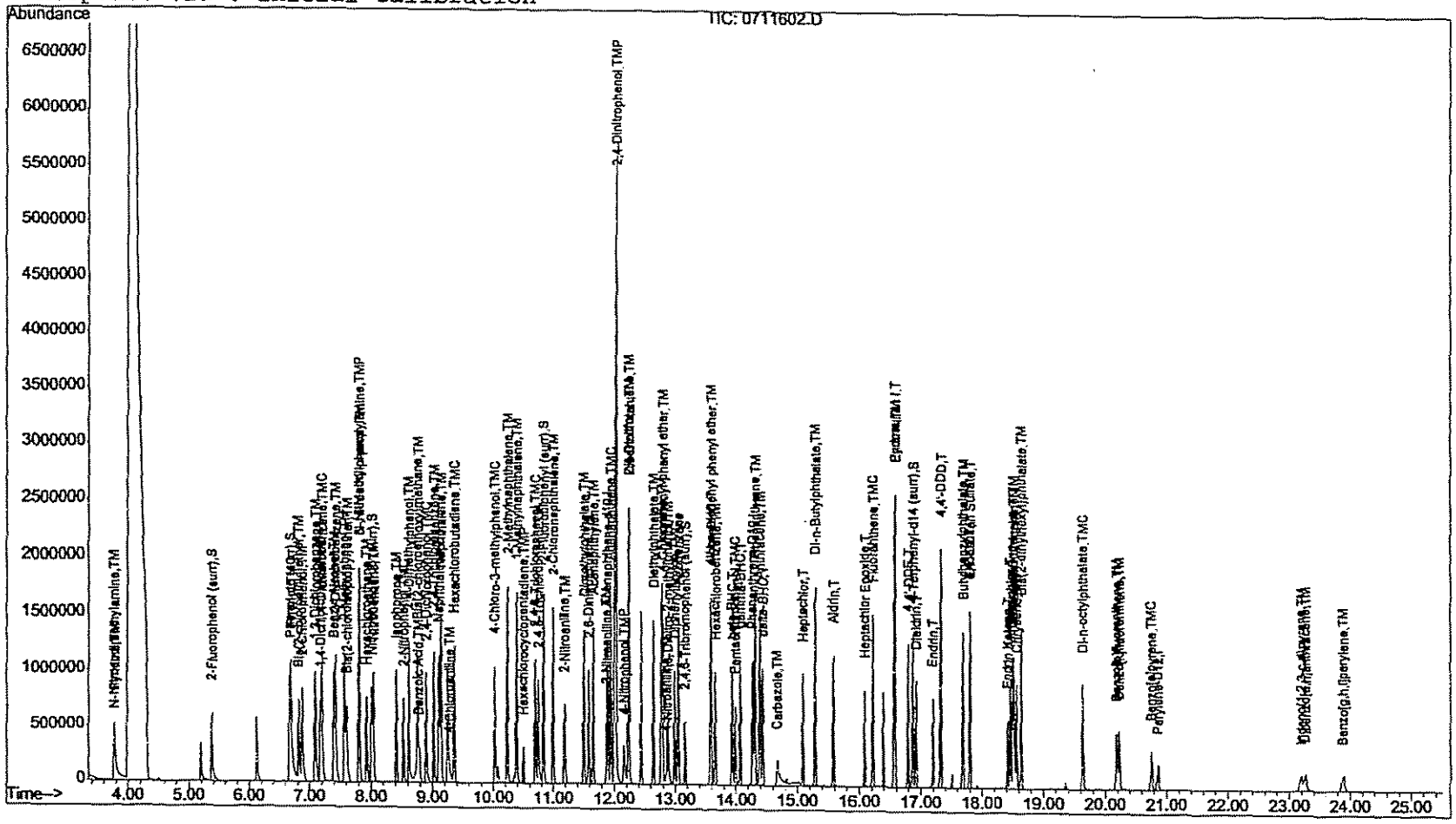
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.08	100	139372	5.94 ug/mL	97
72)	Aldrin	15.57	66	154573	5.70 ug/mL	100
73)	Heptachlor Epoxide	16.08	353	47919	5.85 ug/mL	98
74)	Endosulfan I	16.57	195	40315	5.93 ug/mL	91
75)	4,4'-DDE	16.79	246	216168	5.65 ug/mL	95
76)	Dieldrin	16.92	79	192934	5.54 ug/mL	100
77)	Endrin	17.19	263	35569	5.92 ug/mL	93
78)	Endosulfan II	0.00	30	0	N.D.	
79)	4,4'-DDD	17.32	235	344638	5.37 ug/mL	100
80)	Endosulfan Sulfate	17.79	272	42100	4.98 ug/mL	97
81)	4,4'-DDT	17.80	235	274094	5.50 ug/mL	100
82)	Endrin Aldehyde	0.00	30	0	N.D.	
83)	Endrin Ketone	18.41	317	28277	4.56 ug/mL	92
84)	Methoxychlor	18.45	227	497454	5.08 ug/mL	100
86)	Pyrene	16.57	202	928095	7.41 ug/mL	98
87)	Butylbenzylphthalate	17.68	149	406977	6.87 ug/mL	98
88)	Benzo[a]anthracene	18.49	228	560750	6.22 ug/mL	96
89)	3,3'-Dichlorobenzidine	18.49	252	68395	6.32 ug/mL#	93
90)	Chrysene	18.55	228	549370	6.23 ug/mL	96
91)	Bis(2-ethylhexyl)phthalate	18.63	149	498388	6.50 ug/mL	98
94)	Di-n-octylphthalate	19.62	149	709835	6.57 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	398978	6.63 ug/mL	97
96)	Benzo[k]fluoranthene	20.23	252	437373	6.47 ug/mL	98
97)	Benzo[a]pyrene	20.74	252	337491	7.08 ug/mL#	94
98)	Indeno(1,2,3-c,d)pyrene	23.18	276	209459	8.48 ug/mL	99
99)	Dibenzo[a,h]anthracene	23.26	278	223750	8.94 ug/mL	96
100)	Benzo[g,h,i]perylene	23.89	276	237794	7.78 ug/mL	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711602.D Vial: 2
Acq On : 11 Jul 2005 2:54 pm Operator: MRC
Sample : SVCVS6 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 11 15:20 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



8270-BN QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708607.D Vial: 7
Acq On : 8 Jul 2005 5:19 pm Operator: MRC
Sample : PB3187 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:24 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 07.12.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.17	152	185462	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	739147	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.88	164	403400	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.27	188	602979	4.00	ug/mL	-0.05
85) Chrysene-D12	18.51	240	278646	4.00	ug/mL	-0.05
93) Perylene-D12	20.85	264	141104	4.00	ug/mL	-0.07
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.39	112	487984	10.35	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 103.50%			
17) Phenol-d6 (surr)	6.67	99	774399	10.52	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 105.20%			
32) Nitrobenzene-d5 (surr)	8.01	128	272101	10.38	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 103.80%			
53) 2-Fluorobiphenyl (surr)	10.83	172	1204341	10.65	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 106.50%			
54) 2,4,6-Tribromophenol (surr	13.15	330	124030	10.50	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 105.00%			
92) 4-Terphenyl-d14 (surr)	16.87	244	957235m	13.74	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 137.40%			

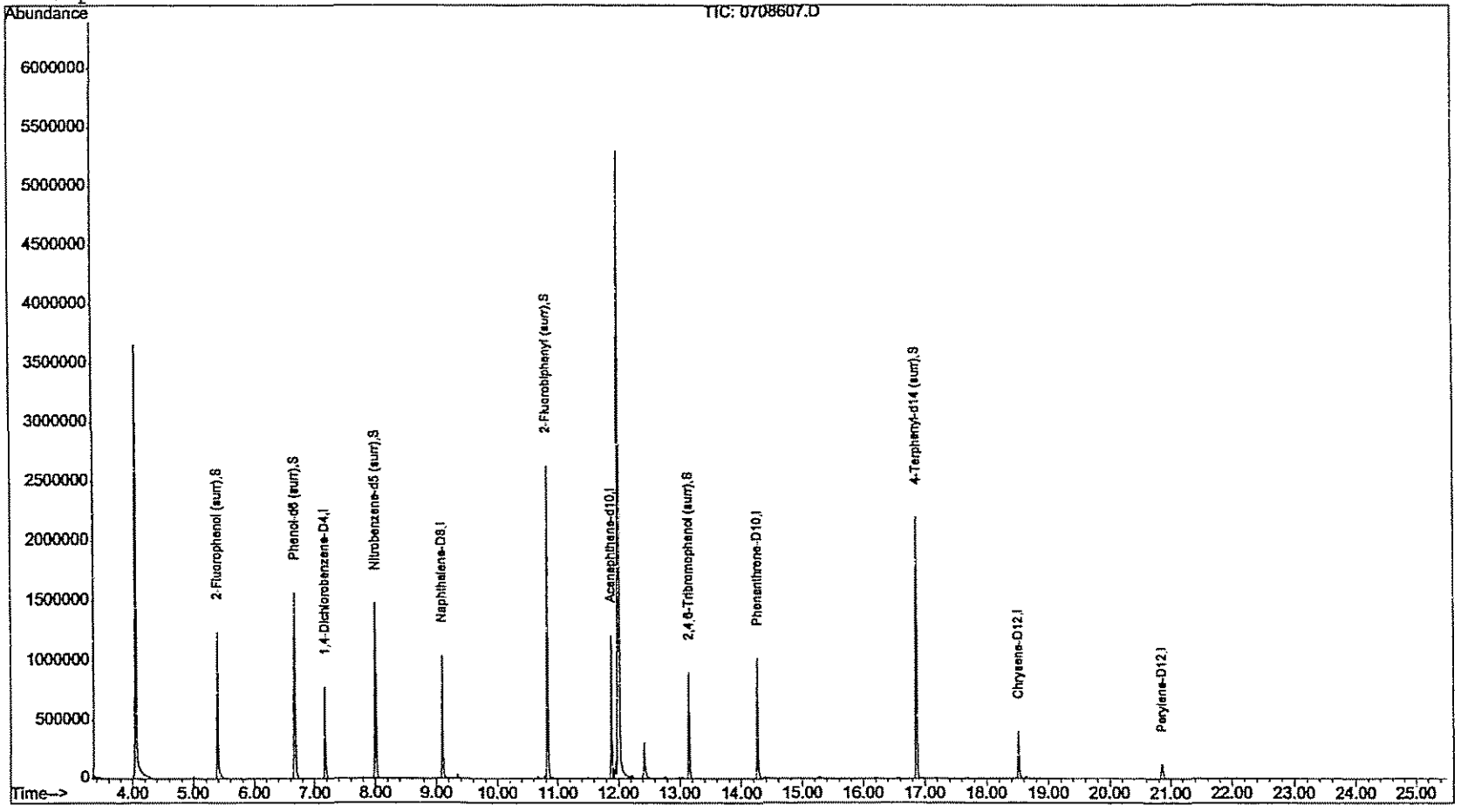
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0708607.D 8270.M Tue Jul 12 13:39:05 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6070805\0708607.D Vial: 7
Acq On : 8 Jul 2005 5:19 pm Operator: MRC
Sample : PB3187 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:24 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708606.D Vial: 6
Acq On : 8 Jul 2005 4:46 pm Operator: MRC
Sample : LCS3187 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:22 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 07.12.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	168686	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.10	136	688025	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	389033	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	597715	4.00	ug/mL	-0.04
85) Chrysene-D12	18.52	240	318087	4.00	ug/mL	-0.04
93) Perylene-D12	20.86	264	169938	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.40	112	461934	10.78	ug/mL	0.00
Spiked Amount 10.000			Recovery = 107.80%			
17) Phenol-d6 (surr)	6.68	99	720897	10.77	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 107.70%			
32) Nitrobenzene-d5 (surr)	8.01	128	261974	10.74	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 107.40%			
53) 2-Fluorobiphenyl (surr)	10.83	172	1149433	10.54	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 105.40%			
54) 2,4,6-Tribromophenol (surr	13.16	330	125683	11.03	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 110.30%			
92) 4-Terphenyl-d14 (surr)	16.86	244	1018854	12.81	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 128.10%			
Target Compounds						Qvalue
2) Pyridine	3.78	79	419554	11.27	ug/mL#	82
3) N-Nitrosodimethylamine	3.77	74	325735	11.57	ug/mL	99
4) Phenol	6.70	94	759026	10.01	ug/mL	97
5) Bis(2-chloroethyl)ether	6.82	93	545092	9.26	ug/mL	97
6) 2-Chlorophenol	6.88	128	551901	9.90	ug/mL	98
7) Benzyl Alcohol	7.40	108	380820	9.82	ug/mL	96
8) 1,3-Dichlorobenzene	7.09	146	569435	10.34	ug/mL	97
9) 1,4-Dichlorobenzene	7.20	146	591914	10.46	ug/mL	99
10) 1,2-Dichlorobenzene	7.43	146	534775	10.48	ug/mL	95
11) 2-Methylphenol	7.57	107	473406	10.23	ug/mL	96
12) 3-, 4-Methylphenol	7.82	107	1192176	17.78	ug/mL#	85
13) Bis(2-chloroisopropyl)ethe	7.61	45	715185	10.31	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.81	70	412774	11.74	ug/mL	97
15) Hexachloroethane	7.92	117	233815	10.45	ug/mL	95
19) Nitrobenzene	8.04	77	711341	10.50	ug/mL	99
20) Isophorone	8.41	82	1218471	12.17	ug/mL	100
21) 2-Nitrophenol	8.52	139	298458	9.49	ug/mL	98
22) 2,4-Dimethylphenol	8.61	122	459328	10.19	ug/mL	98
23) Benzoic Acid	8.79	122	249369	7.86	ug/mL	97
24) Bis(2-chloroethoxy)methane	8.76	93	687060	10.38	ug/mL	100

(#) = qualifier out of range (m) = manual integration
0708606.D 8270.M Tue Jul 12 13:38:56 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708606.D
Acq On : 8 Jul 2005 4:46 pm
Sample : LCS3187 x1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:22 2005

Vial: 6
Operator: MRC
Inst : MSD6
Multiplr: 1.00
Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.90	162	467957	10.25 ug/mL	98
26)	1,2,4-Trichlorobenzene	9.02	180	489043	10.16 ug/mL	97
27)	Naphthalene	9.14	128	1560547	10.41 ug/mL	99
28)	4-Chloroaniline	9.25	127	340694	13.41 ug/mL	94
29)	Hexachlorobutadiene	9.35	225	305194	10.03 ug/mL	95
30)	4-Chloro-3-methylphenol	10.02	107	571543	10.61 ug/mL	95
31)	2-Methylnaphthalene	10.23	142	1023028	9.56 ug/mL	98
34)	Hexachlorocyclopentadiene	10.50	237	228823	14.63 ug/mL	91
35)	2,4,6-Trichlorophenol	10.69	196	350219	10.16 ug/mL	96
36)	2,4,5-Trichlorophenol	10.74	196	380514	10.61 ug/mL	96
37)	2-Chloronaphthalene	11.00	162	1013650	10.57 ug/mL	97
38)	2-Nitroaniline	11.19	65	376157	10.63 ug/mL	98
39)	3-Nitroaniline	11.86	138	168621	20.83 ug/mL	93
40)	1-Methylnaphthalene	10.38	142	987113	10.35 ug/mL	99
41)	Dimethylphthalate	11.51	163	1201726	10.58 ug/mL	99
42)	Acenaphthylene	11.66	152	1508770	12.09 ug/mL	99
43)	2,6-Dinitrotoluene	11.59	165	273632	10.93 ug/mL	100
44)	Acenaphthene	11.94	153	907889	10.57 ug/mL	99
45)	2,4-Dinitrophenol	12.04	184	142077	9.80 ug/mL	93
46)	4-Nitrophenol	12.16	109	200919	12.31 ug/mL	86
47)	Dibenzofuran	12.23	168	1370450	9.85 ug/mL	99
48)	2,4-Dinitrotoluene	12.23	165	352770	11.17 ug/mL	91
49)	Fluorene	12.78	166	1129977	10.92 ug/mL	96
50)	Diethylphthalate	12.65	149	1144336	10.90 ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.79	204	562254	10.52 ug/mL	99
52)	4-Nitroaniline	12.84	138	130095	9.62 ug/mL	96
56)	4,6-Dinitro-2-methylphenol	12.88	198	206133	9.50 ug/mL	96
57)	Diphenylamine	12.99	169	891688	14.31 ug/mL	99
58)	4-bromophenyl phenyl ether	13.57	248	314069	10.34 ug/mL	94
59)	Hexachlorobenzene	13.66	284	287319	9.63 ug/mL	94
60)	Pentachlorophenol	13.99	266	177328	8.08 ug/mL	96
61)	Phenanthrene	14.31	178	1471762	9.94 ug/mL	98
63)	Anthracene	14.39	178	1519670	11.01 ug/mL	98
64)	Azobenzene	13.05	77	1312604	10.06 ug/mL	99
65)	Di-n-Butylphthalate	15.29	149	1817564	10.23 ug/mL	98
66)	Fluoranthene	16.22	202	1590135	10.22 ug/mL	97
86)	Pyrene	16.57	202	1610535	13.50 ug/mL	98
87)	Butylbenzylphthalate	17.69	149	687792	12.20 ug/mL	97
88)	Benzo[a]anthracene	18.51	228	977681	11.39 ug/mL	97
89)	3,3'-Dichlorobenzidine	18.50	252	225903	16.95 ug/mL	90
90)	Chrysene	18.56	228	955060	11.39 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6070805\0708606.D Vial: 6
Acq On : 8 Jul 2005 4:46 pm Operator: MRC
Sample : LCS3187 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:22 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6070805\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

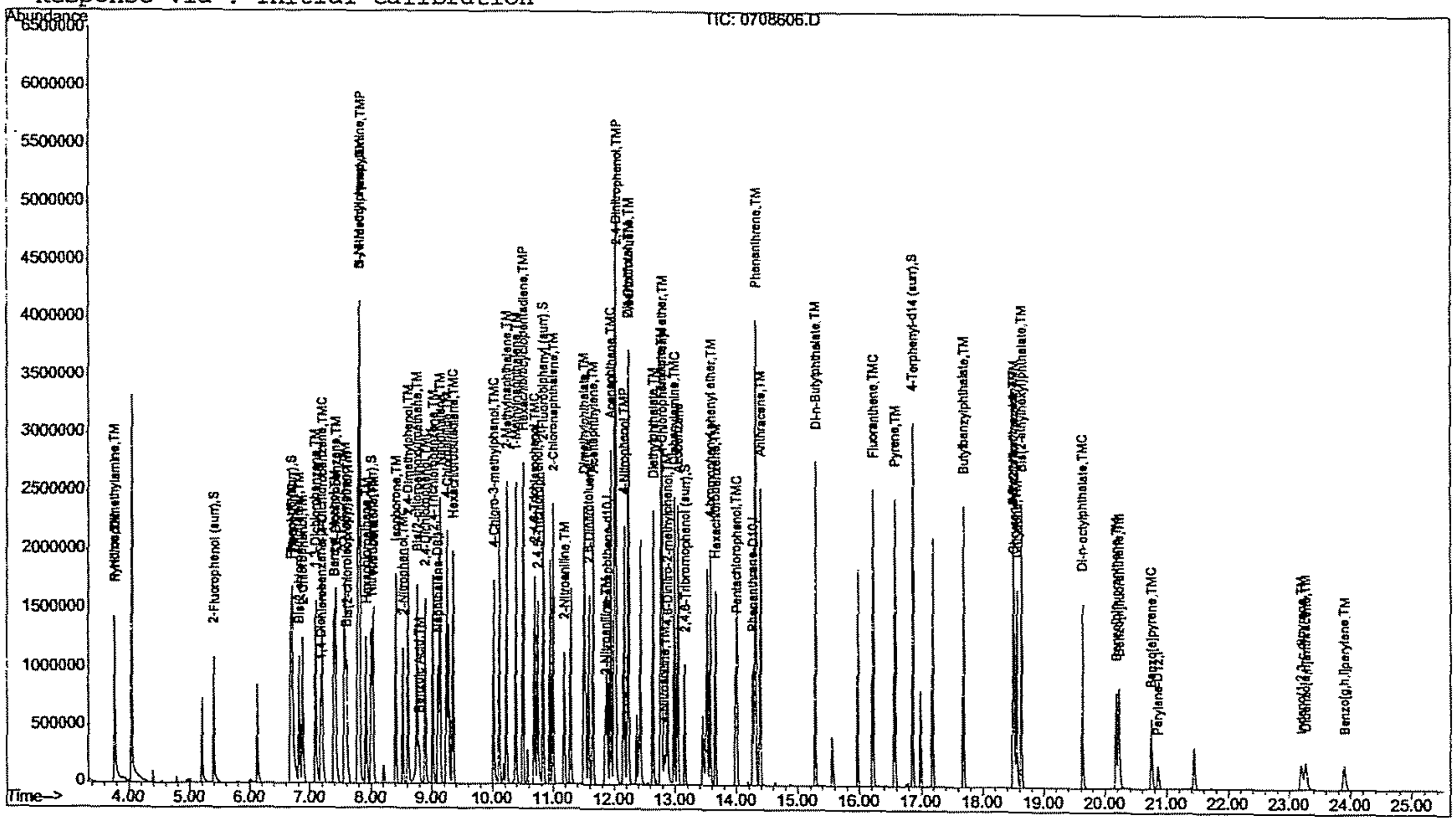
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	824531	11.30 ug/mL	96
94)	Di-n-octylphthalate	19.63	149	1118747	12.09 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	625634	12.15 ug/mL	98
96)	Benzo[k]fluoranthene	20.23	252	655304	11.33 ug/mL	99
97)	Benzo[a]pyrene	20.75	252	525842	12.88 ug/mL	96
98)	Indeno(1,2,3-c,d)pyrene	23.20	276	292596	12.24 ug/mL	99
99)	Dibenzo[a,h]anthracene	23.27	278	317339	13.46 ug/mL	97
100)	Benzo[g,h,i]perylene	23.90	276	311063	11.33 ug/mL	100

(#) = qualifier out of range (m) = manual integration
0708606.D 8270.M Tue Jul 12 13:38:57 2005 ENV Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6070805\0708606.D   Vial: 6
Acq On : 8 Jul 2005 4:46 pm   Operator: MRC
Sample : LCS3187 x1   Inst : MSD6
Misc :   Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 12 11:22 2005   Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0708606.D 8270.M Tue Jul 12 13:39:01 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC.

N C CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711613.D Vial: 13
Acq On : 11 Jul 2005 9:10 pm Operator: MRC
Sample : G161-2047-7I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mm 07-13-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	145338	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	582595	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	321636	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	481252	4.00	ug/mL	-0.04
85) Chrysene-D12	18.52	240	222938	4.00	ug/mL	-0.05
93) Perylene-D12	20.86	264	129570	4.00	ug/mL	-0.07
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.40	112	407171	11.02	ug/mL	0.00
Spiked Amount 10.000			Recovery = 110.20%			
17) Phenol-d6 (surr)	6.68	99	634172	11.00	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 110.00%			
32) Nitrobenzene-d5 (surr)	8.01	128	221501	10.72	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 107.20%			
53) 2-Fluorobiphenyl (surr)	10.83	172	973761	10.80	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 108.00%			
54) 2,4,6-Tribromophenol (surr	13.16	330	100568	10.68	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 106.80%			
92) 4-Terphenyl-d14 (surr)	16.87	244	811180	14.55	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 145.50%			
Target Compounds						Qvalue
2) Pyridine	3.77	79	313061	9.84	ug/mL	90
3) N-Nitrosodimethylamine	3.77	74	277715	11.45	ug/mL	95
4) Phenol	6.70	94	672046	10.29	ug/mL	99
5) Bis(2-chloroethyl)ether	6.82	93	487901	9.62	ug/mL	95
6) 2-Chlorophenol	6.88	128	484105	10.08	ug/mL	97
7) Benzyl Alcohol	7.40	108	341401	10.22	ug/mL	96
8) 1,3-Dichlorobenzene	7.09	146	501885	10.58	ug/mL	97
9) 1,4-Dichlorobenzene	7.20	146	517155	10.61	ug/mL	97
10) 1,2-Dichlorobenzene	7.42	146	471161	10.71	ug/mL	93
11) 2-Methylphenol	7.57	107	380661	9.55	ug/mL	98
12) 3-, 4-Methylphenol	7.82	107	977345	16.91	ug/mL#	81
13) Bis(2-chloroisopropyl)ethe	7.61	45	640603	10.72	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.81	70	349181	11.53	ug/mL	99
15) Hexachloroethane	7.92	117	198719	10.31	ug/mL	97
19) Nitrobenzene	8.04	77	632614	11.03	ug/mL	98
20) Isophorone	8.41	82	1053357	12.43	ug/mL	99
21) 2-Nitrophenol	8.53	139	255630	9.59	ug/mL	96
22) 2,4-Dimethylphenol	8.61	122	272221	7.13	ug/mL	98
23) Benzoic Acid	8.79	122	162831	6.27	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.76	93	596839	10.65	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711613.D Vial: 13
Acq On : 11 Jul 2005 9:10 pm Operator: MRC
Sample : G161-2047-7I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.90	162	387739	10.03 ug/mL	97
26) 1,2,4-Trichlorobenzene	9.02	180	414026	10.15 ug/mL	96
27) Naphthalene	9.13	128	1361505	10.73 ug/mL	99
28) 4-Chloroaniline	9.25	127	327000	15.09 ug/mL	93
29) Hexachlorobutadiene	9.35	225	254548	9.88 ug/mL	99
30) 4-Chloro-3-methylphenol	10.02	107	469921	10.30 ug/mL	98
31) 2-Methylnaphthalene	10.23	142	874054	9.65 ug/mL	99
34) Hexachlorocyclopentadiene	10.49	237	146222	11.54 ug/mL	95
35) 2,4,6-Trichlorophenol	10.69	196	283629	9.95 ug/mL	99
36) 2,4,5-Trichlorophenol	10.75	196	317067	10.69 ug/mL	93
37) 2-Chloronaphthalene	11.00	162	878388	11.08 ug/mL	97
38) 2-Nitroaniline	11.19	65	328273	11.22 ug/mL	99
39) 3-Nitroaniline	11.86	138	152550	22.88 ug/mL	94
40) 1-Methylnaphthalene	10.39	142	853899	10.83 ug/mL	99
41) Dimethylphthalate	11.51	163	1026630	10.94 ug/mL	99
42) Acenaphthylene	11.66	152	1317688	12.77 ug/mL	98
43) 2,6-Dinitrotoluene	11.59	165	229312	11.08 ug/mL	99
44) Acenaphthene	11.94	153	796601	11.22 ug/mL	97
45) 2,4-Dinitrophenol	12.03	184	113105	9.44 ug/mL	95
46) 4-Nitrophenol	12.16	109	145141	10.76 ug/mL	80
47) Dibenzofuran	12.23	168	1165659	10.13 ug/mL	98
48) 2,4-Dinitrotoluene	12.24	165	291803	11.18 ug/mL#	75
49) Fluorene	12.77	166	970092	11.34 ug/mL	99
50) Diethylphthalate	12.64	149	948942	10.94 ug/mL	100
51) 4-Chlorophenyl phenyl ethe	12.79	204	480353	10.87 ug/mL	97
52) 4-Nitroaniline	12.85	138	106467	9.52 ug/mL	88
56) 4,6-Dinitro-2-methylphenol	12.88	198	170076	9.74 ug/mL	92
57) Diphenylamine	12.99	169	763755	15.22 ug/mL	97
58) 4-bromophenyl phenyl ether	13.58	248	263828	10.79 ug/mL	97
59) Hexachlorobenzene	13.66	284	244897	10.20 ug/mL	96
60) Pentachlorophenol	13.99	266	137110	7.76 ug/mL	98
61) Phenanthrene	14.31	178	1258121	10.56 ug/mL	97
63) Anthracene	14.39	178	1268840	11.42 ug/mL	99
64) Azobenzene	13.04	77	1124905	10.71 ug/mL	99
65) Di-n-Butylphthalate	15.28	149	1554923	10.87 ug/mL	99
66) Fluoranthene	16.22	202	1343227	10.72 ug/mL	97
86) Pyrene	16.57	202	1313176	15.71 ug/mL	96
87) Butylbenzylphthalate	17.69	149	546818	13.84 ug/mL	99
88) Benzo[a]anthracene	18.50	228	732278	12.17 ug/mL	99
89) 3,3'-Dichlorobenzidine	18.50	252	115634	12.92 ug/mL#	88
90) Chrysene	18.56	228	687796	11.70 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0711613.D 8270.M Wed Jul 13 10:46:10 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711613.D Vial: 13
Acq On : 11 Jul 2005 9:10 pm Operator: MRC
Sample : G161-2047-7I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	666511	13.03 ug/mL	96
94)	Di-n-octylphthalate	19.63	149	853605	12.10 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	472639	12.04 ug/mL	99
96)	Benzo[k]fluoranthene	20.23	252	536895	12.18 ug/mL	99
97)	Benzo[a]pyrene	20.75	252	416071	13.37 ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	23.19	276	225593	12.35 ug/mL	100
99)	Dibenzo[a,h]anthracene	23.26	278	259320	14.28 ug/mL	96
100)	Benzo[g,h,i]perylene	23.90	276	258697	12.26 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0711613.D 8270.M Wed Jul 13 10:46:10 2005 ENV Page 3

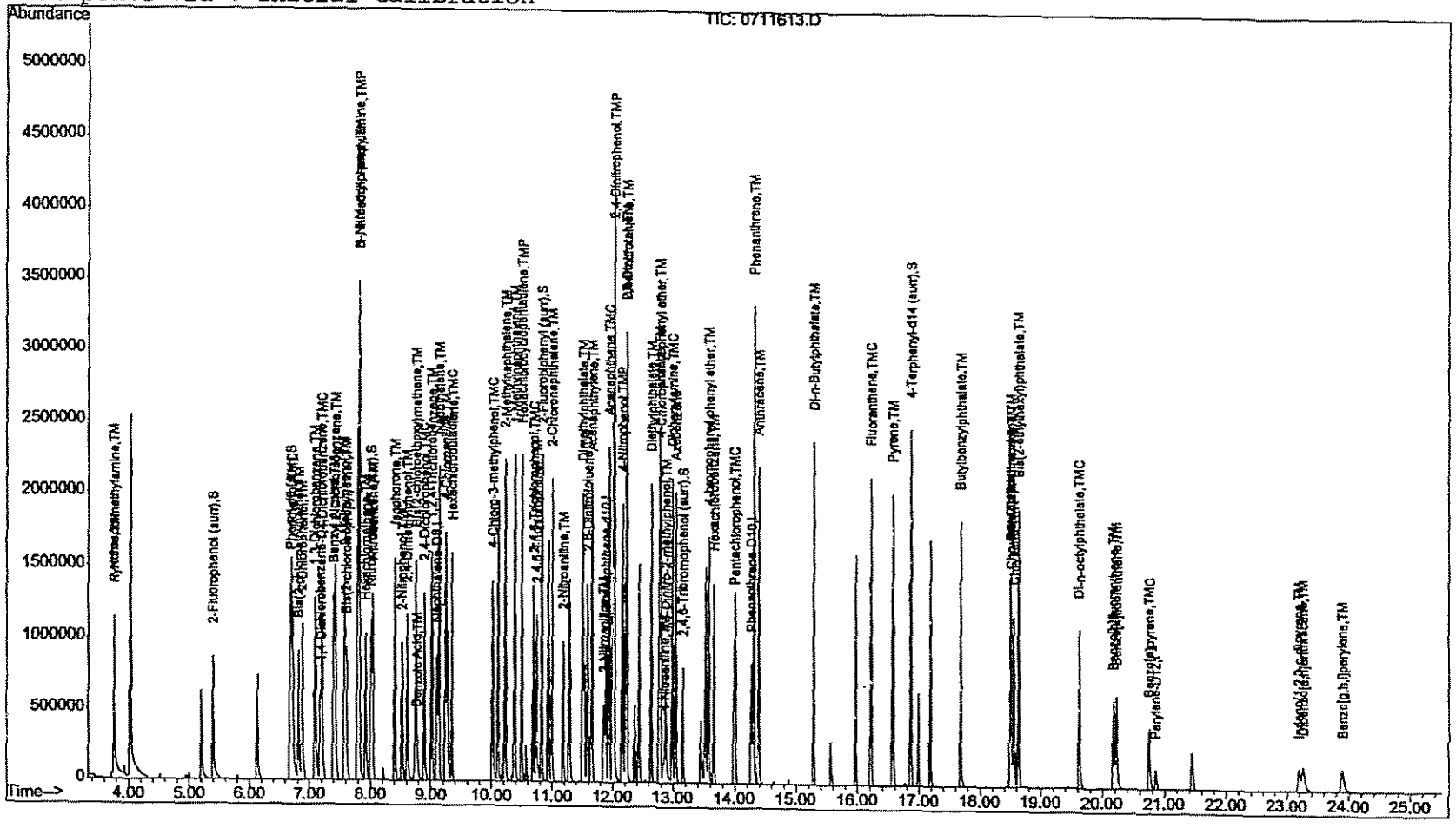
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711613.D
Acq On : 11 Jul 2005 9:10 pm
Sample : G161-2047-7I x1 MS
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005

Vial: 13
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0711613.D 8270.M Wed Jul 13 10:46:13 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711614.D Vial: 14
Acq On : 11 Jul 2005 9:45 pm Operator: MRC
Sample : G161-2047-7J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

ML 07-13-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	157992	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	634374	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	359063	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	529250	4.00	ug/mL	-0.04
85) Chrysene-D12	18.51	240	240887	4.00	ug/mL	-0.05
93) Perylene-D12	20.86	264	141863	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.40	112	442966	11.03	ug/mL	0.00
Spiked Amount 10.000			Recovery = 110.30%			
17) Phenol-d6 (surr)	6.68	99	702131	11.20	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 112.00%			
32) Nitrobenzene-d5 (surr)	8.01	128	250420	11.13	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 111.30%			
53) 2-Fluorobiphenyl (surr)	10.83	172	1072875	10.66	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 106.60%			
54) 2,4,6-Tribromophenol (surr	13.16	330	111281	10.58	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 105.80%			
92) 4-Terphenyl-d14 (surr)	16.87	244	851267	14.13	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 141.30%			
Target Compounds						Qvalue
2) Pyridine	3.78	79	373627	10.75	ug/mL	92
3) N-Nitrosodimethylamine	3.78	74	338584	12.84	ug/mL	97
4) Phenol	6.70	94	749854	10.56	ug/mL	97
5) Bis(2-chloroethyl)ether	6.82	93	570228	10.34	ug/mL	96
6) 2-Chlorophenol	6.88	128	538072	10.30	ug/mL	98
7) Benzyl Alcohol	7.40	108	376777	10.38	ug/mL	92
8) 1,3-Dichlorobenzene	7.10	146	566859	10.99	ug/mL	98
9) 1,4-Dichlorobenzene	7.20	146	576910	10.89	ug/mL	99
10) 1,2-Dichlorobenzene	7.42	146	529302	11.07	ug/mL	96
11) 2-Methylphenol	7.58	107	420212	9.70	ug/mL	96
12) 3-, 4-Methylphenol	7.82	107	1069194	17.02	ug/mL#	82
13) Bis(2-chloroisopropyl)ethe	7.60	45	717841	11.05	ug/mL#	98
14) N-Nitrosodi-n-propylamine	7.81	70	404599	12.29	ug/mL	97
15) Hexachloroethane	7.92	117	226453	10.81	ug/mL	99
19) Nitrobenzene	8.04	77	709199	11.35	ug/mL	98
20) Isophorone	8.41	82	1186766	12.86	ug/mL	99
21) 2-Nitrophenol	8.53	139	293601	10.12	ug/mL	98
22) 2,4-Dimethylphenol	8.61	122	265676	6.39	ug/mL	94
23) Benzoic Acid	8.80	122	201459	7.00	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.76	93	680276	11.15	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0711614.D 8270.M Wed Jul 13 10:46:16 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711614.D Vial: 14
Acq On : 11 Jul 2005 9:45 pm Operator: MRC
Sample : G161-2047-7J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.90	162	437790	10.40 ug/mL	98
26) 1,2,4-Trichlorobenzene	9.02	180	476205	10.73 ug/mL	95
27) Naphthalene	9.14	128	1544766	11.18 ug/mL	98
28) 4-Chloroaniline	9.25	127	378862	16.01 ug/mL#	92
29) Hexachlorobutadiene	9.35	225	287852	10.26 ug/mL	93
30) 4-Chloro-3-methylphenol	10.03	107	530646	10.68 ug/mL	97
31) 2-Methylnaphthalene	10.23	142	985199	9.99 ug/mL	99
34) Hexachlorocyclopentadiene	10.50	237	182982	12.81 ug/mL	97
35) 2,4,6-Trichlorophenol	10.70	196	315961	9.93 ug/mL	97
36) 2,4,5-Trichlorophenol	10.75	196	353577	10.68 ug/mL	99
37) 2-Chloronaphthalene	11.00	162	967832	10.93 ug/mL	96
38) 2-Nitroaniline	11.19	65	370277	11.34 ug/mL	99
39) 3-Nitroaniline	11.86	138	179705	24.19 ug/mL	96
40) 1-Methylnaphthalene	10.39	142	961128	10.92 ug/mL	99
41) Dimethylphthalate	11.51	163	1145772	10.93 ug/mL	99
42) Acenaphthylene	11.66	152	1472856	12.78 ug/mL	98
43) 2,6-Dinitrotoluene	11.59	165	262615	11.36 ug/mL	99
44) Acenaphthene	11.94	153	888048	11.21 ug/mL	96
45) 2,4-Dinitrophenol	12.04	184	129347	9.67 ug/mL#	83
46) 4-Nitrophenol	12.16	109	180364	11.97 ug/mL	80
47) Dibenzofuran	12.23	168	1325359	10.32 ug/mL	100
48) 2,4-Dinitrotoluene	12.24	165	328189	11.26 ug/mL#	73
49) Fluorene	12.77	166	1099180	11.51 ug/mL	99
50) Diethylphthalate	12.65	149	1072795	11.08 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.79	204	539416	10.94 ug/mL	99
52) 4-Nitroaniline	12.85	138	106097	8.50 ug/mL	86
56) 4,6-Dinitro-2-methylphenol	12.88	198	190824	9.94 ug/mL	98
57) Diphenylamine	12.99	169	853217	15.47 ug/mL	99
58) 4-bromophenyl phenyl ether	13.57	248	298545	11.11 ug/mL	93
59) Hexachlorobenzene	13.66	284	276436	10.47 ug/mL	98
60) Pentachlorophenol	13.99	266	157563	8.11 ug/mL	96
61) Phenanthrene	14.31	178	1411388	10.77 ug/mL	98
63) Anthracene	14.39	178	1448920	11.86 ug/mL	99
64) Azobenzene	13.04	77	1260242	10.91 ug/mL	99
65) Di-n-Butylphthalate	15.28	149	1742881	11.08 ug/mL	98
66) Fluoranthene	16.22	202	1418661	10.29 ug/mL	98
86) Pyrene	16.57	202	1402678	15.53 ug/mL	98
87) Butylbenzylphthalate	17.69	149	583040	13.66 ug/mL	98
88) Benzo[a]anthracene	18.50	228	778473	11.97 ug/mL	95
89) 3,3'-Dichlorobenzidine	18.50	252	132299	13.57 ug/mL#	90
90) Chrysene	18.56	228	757037	11.92 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0711614.D 8270.M Wed Jul 13 10:46:18 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711614.D Vial: 14
Acq On : 11 Jul 2005 9:45 pm Operator: MRC
Sample : G161-2047-7J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	711194	12.87 ug/mL	95
94)	Di-n-octylphthalate	19.63	149	941786	12.19 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	509736	11.86 ug/mL	96
96)	Benzo[k]fluoranthene	20.23	252	569747	11.80 ug/mL	96
97)	Benzo[a]pyrene	20.75	252	450717	13.23 ug/mL	95
98)	Indeno(1,2,3-c,d)pyrene	23.20	276	253586	12.61 ug/mL	98
99)	Dibenzo[a,h]anthracene	23.26	278	275318	13.91 ug/mL	94
100)	Benzo[g,h,i]perylene	23.90	276	296551	12.79 ug/mL	95

(#) = qualifier out of range (m) = manual integration
0711614.D 8270.M Wed Jul 13 10:46:18 2005 ENV Page 3

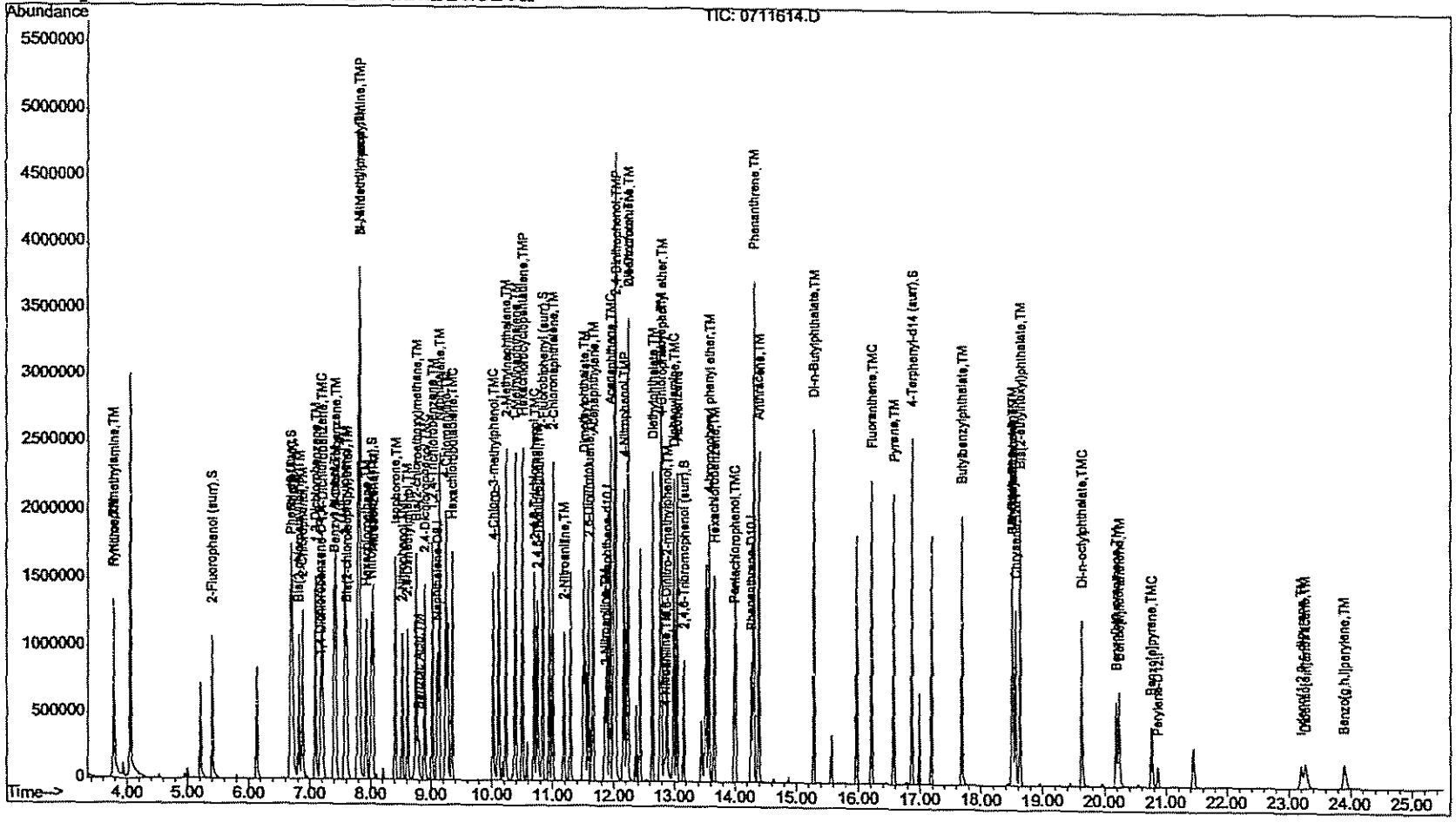
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711614.D
Acq On : 11 Jul 2005 9:45 pm
Sample : G161-2047-7J x1 MSD
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:32 2005

Vial: 14
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711615.D Vial: 15
Acq On : 11 Jul 2005 10:19 pm Operator: MRC
Sample : PB3202 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:33 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MMC 07-13-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	165313	4.00	ug/mL	-0.04
18) Naphthalene-D8	9.10	136	649098	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.88	164	349660	4.00	ug/mL	-0.05
55) Phenanthrene-D10	14.27	188	515736	4.00	ug/mL	-0.05
85) Chrysene-D12	18.51	240	219703	4.00	ug/mL	-0.05
93) Perylene-D12	20.87	264	122662	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.39	112	451447	10.75	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 107.50%			
17) Phenol-d6 (surr)	6.67	99	702440	10.71	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 107.10%			
32) Nitrobenzene-d5 (surr)	8.01	128	250952	10.90	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 109.00%			
53) 2-Fluorobiphenyl (surr)	10.83	172	1113024	11.36	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 113.60%			
54) 2,4,6-Tribromophenol (surr	13.15	330	112305	10.97	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 109.70%			
92) 4-Terphenyl-d14 (surr)	16.86	244	737751m	13.43	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 134.30%			

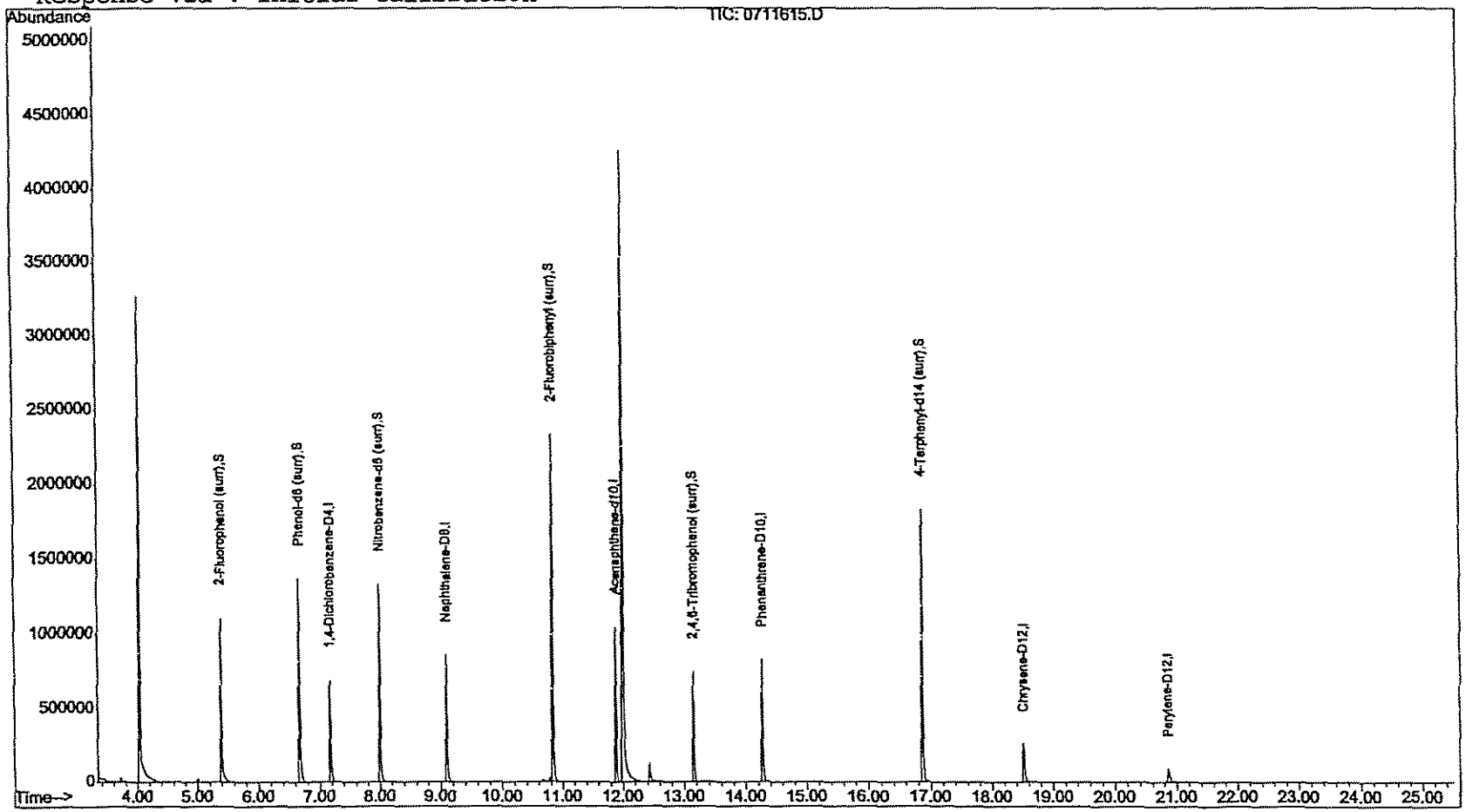
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0711615.D 8270.M Wed Jul 13 10:46:25 2005 ENV Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711615.D Vial: 15
Acq On : 11 Jul 2005 10:19 pm Operator: MRC
Sample : PB3202 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:33 2005 Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0711615.D 8270.M Wed Jul 13 10:46:27 2005 ENV

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711619.D Vial: 19
Acq On : 12 Jul 2005 12:40 am Operator: MRC
Sample : LCS3202 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:36 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 07-13-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	157162	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.10	136	620963	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	350406	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	515834	4.00	ug/mL	-0.04
85) Chrysene-D12	18.52	240	247806	4.00	ug/mL	-0.05
93) Perylene-D12	20.86	264	149104	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.40	112	445682	11.16	ug/mL	0.00
Spiked Amount 10.000			Recovery =		111.60%	
17) Phenol-d6 (surr)	6.68	99	698694	11.20	ug/mL	-0.01
Spiked Amount 10.000			Recovery =		112.00%	
32) Nitrobenzene-d5 (surr)	8.01	128	248690	11.29	ug/mL	-0.03
Spiked Amount 10.000			Recovery =		112.90%	
53) 2-Fluorobiphenyl (surr)	10.83	172	1071839	10.92	ug/mL	-0.04
Spiked Amount 10.000			Recovery =		109.20%	
54) 2,4,6-Tribromophenol (surr	13.16	330	111958	10.91	ug/mL	-0.04
Spiked Amount 10.000			Recovery =		109.10%	
92) 4-Terphenyl-d14 (surr)	16.87	244	880439	14.21	ug/mL	-0.04
Spiked Amount 10.000			Recovery =		142.10%	
Target Compounds						Qvalue
2) Pyridine	3.78	79	422491	12.14	ug/mL	94
3) N-Nitrosodimethylamine	3.77	74	324823	12.38	ug/mL	97
4) Phenol	6.71	94	744776	10.55	ug/mL	94
5) Bis(2-chloroethyl)ether	6.82	93	517167	9.43	ug/mL	95
6) 2-Chlorophenol	6.88	128	532473	10.25	ug/mL	98
7) Benzyl Alcohol	7.40	108	375778	10.40	ug/mL	94
8) 1,3-Dichlorobenzene	7.09	146	549804	10.71	ug/mL	96
9) 1,4-Dichlorobenzene	7.20	146	568639	10.79	ug/mL	99
10) 1,2-Dichlorobenzene	7.43	146	514844	10.83	ug/mL	94
11) 2-Methylphenol	7.58	107	460561	10.68	ug/mL	98
12) 3-, 4-Methylphenol	7.82	107	1130613	18.09	ug/mL#	85
13) Bis(2-chloroisopropyl)ethe	7.60	45	710001	10.99	ug/mL	97
14) N-Nitrosodi-n-propylamine	7.81	70	405808	12.39	ug/mL	96
15) Hexachloroethane	7.92	117	225580	10.82	ug/mL	97
19) Nitrobenzene	8.04	77	703314	11.50	ug/mL	99
20) Isophorone	8.41	82	1169398	12.95	ug/mL	100
21) 2-Nitrophenol	8.53	139	281672	9.92	ug/mL	98
22) 2,4-Dimethylphenol	8.62	122	451445	11.09	ug/mL	98
23) Benzoic Acid	8.79	122	171084	6.19	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.76	93	668511	11.19	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0711619.D 8270.M Wed Jul 13 10:46:52 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711619.D Vial: 19
Acq On : 12 Jul 2005 12:40 am Operator: MRC
Sample : LCS3202 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:36 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	2,4-Dichlorophenol	8.90	162	432041	10.49 ug/mL	98
26)	1,2,4-Trichlorobenzene	9.02	180	463013	10.65 ug/mL	98
27)	Naphthalene	9.14	128	1489654	11.01 ug/mL	99
28)	4-Chloroaniline	9.24	127	382232	16.47 ug/mL	93
29)	Hexachlorobutadiene	9.35	225	285329	10.39 ug/mL	96
30)	4-Chloro-3-methylphenol	10.02	107	540826	11.12 ug/mL	95
31)	2-Methylnaphthalene	10.23	142	967007	10.01 ug/mL	98
34)	Hexachlorocyclopentadiene	10.50	237	184347	13.19 ug/mL	94
35)	2,4,6-Trichlorophenol	10.69	196	314188	10.12 ug/mL	95
36)	2,4,5-Trichlorophenol	10.75	196	337238	10.44 ug/mL	96
37)	2-Chloronaphthalene	11.00	162	968583	11.21 ug/mL	97
38)	2-Nitroaniline	11.19	65	365915	11.48 ug/mL	97
39)	3-Nitroaniline	11.86	138	191262	26.45 ug/mL	100
40)	1-Methylnaphthalene	10.39	142	934121	10.87 ug/mL	100
41)	Dimethylphthalate	11.51	163	1149857	11.24 ug/mL	98
42)	Acenaphthylene	11.66	152	1449860	12.89 ug/mL	99
43)	2,6-Dinitrotoluene	11.59	165	261362	11.59 ug/mL	100
44)	Acenaphthene	11.95	153	886033	11.46 ug/mL	99
45)	2,4-Dinitrophenol	12.04	184	128636	9.85 ug/mL	92
46)	4-Nitrophenol	12.16	109	162499	11.05 ug/mL#	74
47)	Dibenzofuran	12.23	168	1289170	10.29 ug/mL	97
48)	2,4-Dinitrotoluene	12.24	165	323331	11.37 ug/mL#	79
49)	Fluorene	12.77	166	1080390	11.60 ug/mL	98
50)	Diethylphthalate	12.64	149	1062961	11.25 ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.79	204	534011	11.10 ug/mL	99
52)	4-Nitroaniline	12.83	138	126071	10.35 ug/mL#	82
56)	4,6-Dinitro-2-methylphenol	12.88	198	189975	10.15 ug/mL	95
57)	Diphenylamine	12.99	169	884874	16.46 ug/mL	96
58)	4-bromophenyl phenyl ether	13.58	248	296069	11.30 ug/mL	98
59)	Hexachlorobenzene	13.66	284	273878	10.64 ug/mL	97
60)	Pentachlorophenol	13.99	266	160723	8.49 ug/mL	96
61)	Phenanthrene	14.31	178	1390115	10.88 ug/mL	98
63)	Anthracene	14.39	178	1435600	12.06 ug/mL	99
64)	Azobenzene	13.04	77	1269160	11.27 ug/mL	99
65)	Di-n-Butylphthalate	15.29	149	1733078	11.30 ug/mL	99
66)	Fluoranthene	16.22	202	1425332	10.61 ug/mL	97
86)	Pyrene	16.58	202	1408374	15.16 ug/mL	98
87)	Butylbenzylphthalate	17.69	149	591749	13.48 ug/mL	98
88)	Benzo[a]anthracene	18.50	228	819404	12.25 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.50	252	191237	18.24 ug/mL	92
90)	Chrysene	18.56	228	778552	11.92 ug/mL	98

(#) = qualifier out of range (m) = manual integration
0711619.D 8270.M Wed Jul 13 10:46:53 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711619.D Vial: 19
Acq On : 12 Jul 2005 12:40 am Operator: MRC
Sample : LCS3202 x1 Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:36 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	720912	12.68 ug/mL	97
94)	Di-n-octylphthalate	19.63	149	956115	11.78 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	552382	12.23 ug/mL	97
96)	Benzo[k]fluoranthene	20.23	252	624258	12.30 ug/mL	99
97)	Benzo[a]pyrene	20.75	252	504452	14.09 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	23.20	276	281054	13.16 ug/mL	97
99)	Dibenzo[a,h]anthracene	23.27	278	298476	14.29 ug/mL#	89
100)	Benzo[g,h,i]perylene	23.90	276	322870	13.21 ug/mL	99

(#) = qualifier out of range (m) = manual integration
0711619.D 8270.M Wed Jul 13 10:46:53 2005 ENV Page 3

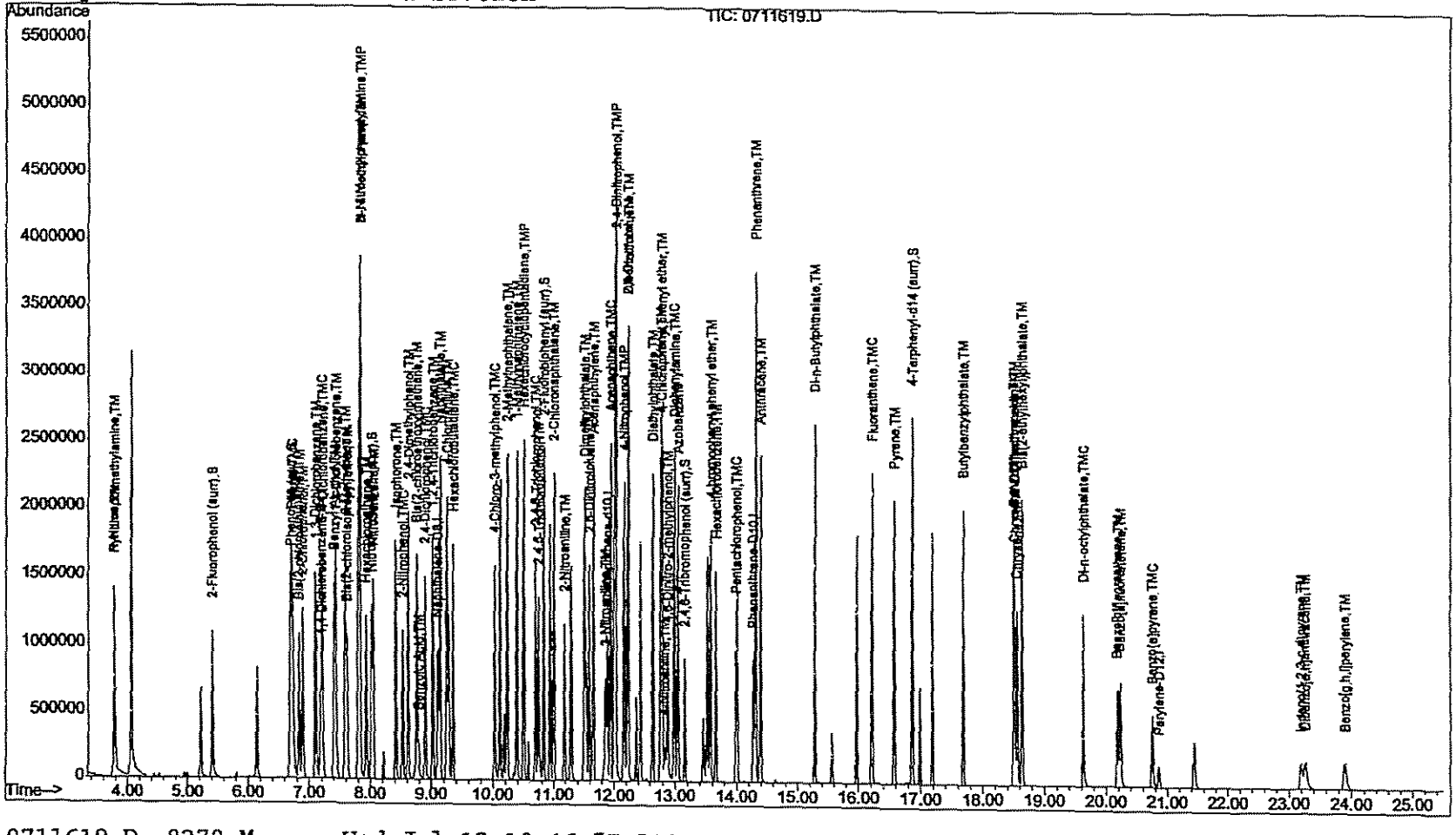
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711619.D
Acq On : 12 Jul 2005 12:40 am
Sample : LCS3202 x1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:36 2005

Vial: 19
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0711619.D 8270.M Wed Jul 13 10:46:57 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711617.D Vial: 17
Acq On : 11 Jul 2005 11:30 pm Operator: MRC
Sample : G161-2055-2I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MWL 07.13.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	149013	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.10	136	599400	4.00	ug/mL	-0.03
33) Acenaphthene-d10	11.89	164	331490	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	497233	4.00	ug/mL	-0.04
85) Chrysene-D12	18.52	240	231806	4.00	ug/mL	-0.05
93) Perylene-D12	20.86	264	131297	4.00	ug/mL	-0.07
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.41	112	433976	11.46	ug/mL	0.00
Spiked Amount 10.000			Recovery = 114.60%			
17) Phenol-d6 (surr)	6.68	99	680109	11.50	ug/mL	0.00
Spiked Amount 10.000			Recovery = 115.00%			
32) Nitrobenzene-d5 (surr)	8.01	128	236261	11.12	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 111.20%			
53) 2-Fluorobiphenyl (surr)	10.83	172	984498	10.60	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 106.00%			
54) 2,4,6-Tribromophenol (surr	13.16	330	103833	10.70	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 107.00%			
92) 4-Terphenyl-d14 (surr)	16.87	244	799215	13.79	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 137.90%			
Target Compounds						Qvalue
2) Pyridine	3.77	79	424894	12.84	ug/mL	92
3) N-Nitrosodimethylamine	3.77	74	326023	13.11	ug/mL	93
4) Phenol	6.70	94	729301	10.89	ug/mL	95
5) Bis(2-chloroethyl)ether	6.82	93	553752	10.64	ug/mL	98
6) 2-Chlorophenol	6.88	128	510932	10.37	ug/mL	97
7) Benzyl Alcohol	7.40	108	359149	10.49	ug/mL	95
8) 1,3-Dichlorobenzene	7.09	146	517999	10.65	ug/mL	95
9) 1,4-Dichlorobenzene	7.20	146	524655	10.50	ug/mL	97
10) 1,2-Dichlorobenzene	7.43	146	485031	10.76	ug/mL	97
11) 2-Methylphenol	7.58	107	436652	10.68	ug/mL	97
12) 3-, 4-Methylphenol	7.82	107	1073009	18.11	ug/mL#	84
13) Bis(2-chloroisopropyl)ethe	7.61	45	662153	10.81	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.81	70	373767	12.03	ug/mL	99
15) Hexachloroethane	7.93	117	207486	10.50	ug/mL	95
19) Nitrobenzene	8.04	77	658254	11.15	ug/mL	99
20) Isophorone	8.41	82	1101725	12.64	ug/mL	99
21) 2-Nitrophenol	8.52	139	271291	9.90	ug/mL	97
22) 2,4-Dimethylphenol	8.61	122	426162	10.85	ug/mL	99
23) Benzoic Acid	8.81	122	246450	8.80	ug/mL	98
24) Bis(2-chloroethoxy)methane	8.76	93	628817	10.91	ug/mL	99

(#) = qualifier out of range (m) = manual integration
0711617.D 8270.M Wed Jul 13 10:46:36 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711617.D Vial: 17
Acq On : 11 Jul 2005 11:30 pm Operator: MRC
Sample : G161-2055-2I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	8.90	162	414822	10.43	ug/mL	96
26)	1,2,4-Trichlorobenzene	9.02	180	431652	10.29	ug/mL	92
27)	Naphthalene	9.14	128	1430093	10.95	ug/mL	100
28)	4-Chloroaniline	9.24	127	401022	17.83	ug/mL	95
29)	Hexachlorobutadiene	9.35	225	267215	10.08	ug/mL	94
30)	4-Chloro-3-methylphenol	10.03	107	506217	10.78	ug/mL	96
31)	2-Methylnaphthalene	10.23	142	914136	9.81	ug/mL	99
34)	Hexachlorocyclopentadiene	10.50	237	166695	12.66	ug/mL	97
35)	2,4,6-Trichlorophenol	10.69	196	295744	10.07	ug/mL	95
36)	2,4,5-Trichlorophenol	10.75	196	326769	10.69	ug/mL	97
37)	2-Chloronaphthalene	11.00	162	907983	11.11	ug/mL	98
38)	2-Nitroaniline	11.19	65	344686	11.43	ug/mL	97
39)	3-Nitroaniline	11.86	138	170838	24.93	ug/mL#	91
40)	1-Methylnaphthalene	10.38	142	882184	10.85	ug/mL	100
41)	Dimethylphthalate	11.51	163	1063404	10.99	ug/mL	99
42)	Acenaphthylene	11.66	152	1350877	12.70	ug/mL	99
43)	2,6-Dinitrotoluene	11.59	165	237361	11.13	ug/mL	98
44)	Acenaphthene	11.94	153	822397	11.24	ug/mL	98
45)	2,4-Dinitrophenol	12.03	184	121115	9.81	ug/mL	93
46)	4-Nitrophenol	12.16	109	154981	11.14	ug/mL#	72
47)	Dibenzofuran	12.22	168	1202926	10.15	ug/mL	100
48)	2,4-Dinitrotoluene	12.23	165	304103	11.31	ug/mL	88
49)	Fluorene	12.77	166	1015263	11.52	ug/mL	98
50)	Diethylphthalate	12.65	149	986294	11.03	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	12.80	204	493438	10.84	ug/mL	97
52)	4-Nitroaniline	12.84	138	111775	9.70	ug/mL	93
56)	4,6-Dinitro-2-methylphenol	12.88	198	174228	9.66	ug/mL	90
57)	Diphenylamine	12.99	169	822020	15.86	ug/mL	98
58)	4-bromophenyl phenyl ether	13.57	248	272237	10.78	ug/mL	96
59)	Hexachlorobenzene	13.66	284	255623	10.30	ug/mL	95
60)	Pentachlorophenol	13.99	266	146463	8.02	ug/mL	97
61)	Phenanthrene	14.31	178	1303107	10.58	ug/mL	98
63)	Anthracene	14.39	178	1323379	11.53	ug/mL	98
64)	Azobenzene	13.05	77	1177937	10.85	ug/mL	99
65)	Di-n-Butylphthalate	15.29	149	1599620	10.82	ug/mL	99
66)	Fluoranthene	16.22	202	1343113	10.37	ug/mL	98
86)	Pyrene	16.58	202	1316984	15.15	ug/mL	98
87)	Butylbenzylphthalate	17.69	149	553710	13.48	ug/mL	94
88)	Benzo[a]anthracene	18.50	228	745492	11.92	ug/mL	98
89)	3,3'-Dichlorobenzidine	18.50	252	170680	17.50	ug/mL	91
90)	Chrysene	18.56	228	708561	11.59	ug/mL	97

(#) = qualifier out of range (m) = manual integration
0711617.D 8270.M Wed Jul 13 10:46:37 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711617.D Vial: 17
Acq On : 11 Jul 2005 11:30 pm Operator: MRC
Sample : G161-2055-2I x1 MS Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	680152	12.79 ug/mL	97
94)	Di-n-octylphthalate	19.62	149	881062	12.33 ug/mL	100
95)	Benzo[b]fluoranthene	20.19	252	487243	12.25 ug/mL	96
96)	Benzo[k]fluoranthene	20.23	252	531587	11.90 ug/mL	99
97)	Benzo[a]pyrene	20.75	252	420527	13.33 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	23.20	276	228364	12.34 ug/mL#	90
99)	Dibenzo[a,h]anthracene	23.27	278	253393	13.85 ug/mL#	92
100)	Benzo[g,h,i]perylene	23.90	276	262663	12.29 ug/mL#	93

(#) = qualifier out of range (m) = manual integration

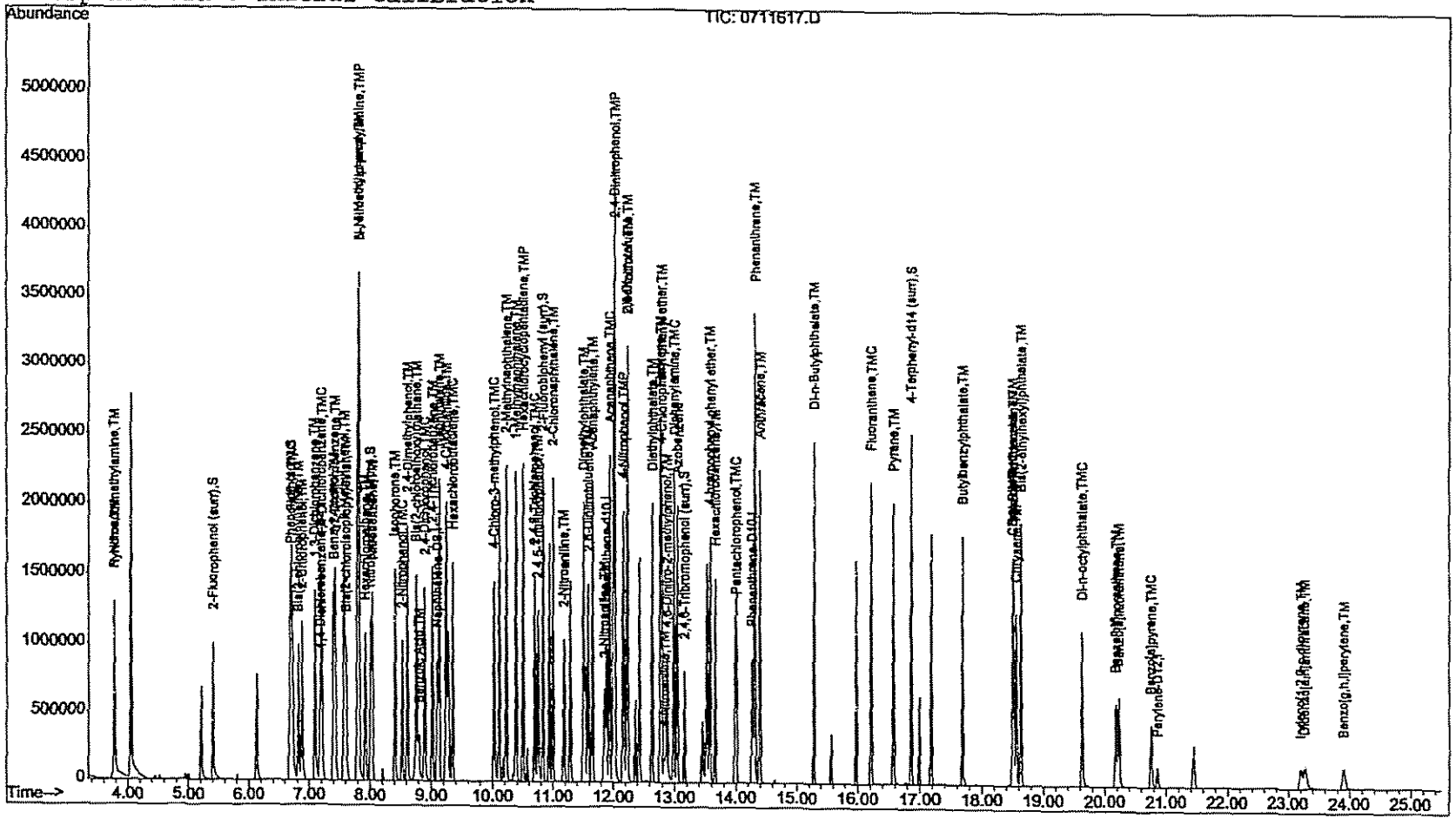
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711617.D
Acq On : 11 Jul 2005 11:30 pm
Sample : G161-2055-2I x1 MS
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005

Vial: 17
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711618.D Vial: 18
Acq On : 12 Jul 2005 12:05 am Operator: MRC
Sample : G161-2055-2J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 07.13.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.18	152	145597	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.10	136	604487	4.00	ug/mL	-0.04
33) Acenaphthene-d10	11.89	164	336885	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.27	188	505728	4.00	ug/mL	-0.04
85) Chrysene-D12	18.52	240	243024	4.00	ug/mL	-0.04
93) Perylene-D12	20.86	264	147337	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.40	112	431712	11.67	ug/mL	0.00
Spiked Amount 10.000			Recovery = 116.70%			
17) Phenol-d6 (surr)	6.69	99	677874	11.73	ug/mL	0.00
Spiked Amount 10.000			Recovery = 117.30%			
32) Nitrobenzene-d5 (surr)	8.01	128	229022	10.68	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 106.80%			
53) 2-Fluorobiphenyl (surr)	10.83	172	995458	10.55	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 105.50%			
54) 2,4,6-Tribromophenol (surr	13.16	330	103528	10.49	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 104.90%			
92) 4-Terphenyl-d14 (surr)	16.87	244	804765	13.24	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 132.40%			
Target Compounds						Qvalue
2) Pyridine	3.78	79	370652	11.52	ug/mL	87
3) N-Nitrosodimethylamine	3.77	74	319925	13.17	ug/mL	96
4) Phenol	6.71	94	737468	11.27	ug/mL	94
5) Bis(2-chloroethyl)ether	6.82	93	505913	9.95	ug/mL	97
6) 2-Chlorophenol	6.89	128	517377	10.75	ug/mL	98
7) Benzyl Alcohol	7.41	108	358322	10.71	ug/mL	94
8) 1,3-Dichlorobenzene	7.10	146	541915	11.40	ug/mL	98
9) 1,4-Dichlorobenzene	7.21	146	560792	11.49	ug/mL	98
10) 1,2-Dichlorobenzene	7.42	146	503868	11.44	ug/mL	93
11) 2-Methylphenol	7.58	107	445864	11.16	ug/mL	99
12) 3-, 4-Methylphenol	7.82	107	1111917	19.21	ug/mL#	85
13) Bis(2-chloroisopropyl)ethe	7.61	45	683433	11.42	ug/mL	99
14) N-Nitrosodi-n-propylamine	7.81	70	386632	12.74	ug/mL	95
15) Hexachloroethane	7.93	117	211409	10.95	ug/mL	97
19) Nitrobenzene	8.04	77	678327	11.40	ug/mL	99
20) Isophorone	8.41	82	1131099	12.86	ug/mL	98
21) 2-Nitrophenol	8.53	139	272914	9.87	ug/mL	100
22) 2,4-Dimethylphenol	8.62	122	431257	10.89	ug/mL	99
23) Benzoic Acid	8.81	122	250448	8.86	ug/mL	99
24) Bis(2-chloroethoxy)methane	8.76	93	645779	11.11	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711618.D Vial: 18
Acq On : 12 Jul 2005 12:05 am Operator: MRC
Sample : G161-2055-2J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) 2,4-Dichlorophenol	8.90	162	424804	10.59 ug/mL	98
26) 1,2,4-Trichlorobenzene	9.02	180	449609	10.63 ug/mL	96
27) Naphthalene	9.14	128	1457051	11.06 ug/mL	98
28) 4-Chloroaniline	9.25	127	408462	18.00 ug/mL	95
29) Hexachlorobutadiene	9.36	225	274237	10.26 ug/mL	95
30) 4-Chloro-3-methylphenol	10.03	107	512237	10.82 ug/mL	96
31) 2-Methylnaphthalene	10.23	142	934759	9.94 ug/mL	97
34) Hexachlorocyclopentadiene	10.50	237	170440	12.73 ug/mL	98
35) 2,4,6-Trichlorophenol	10.70	196	304341	10.19 ug/mL	99
36) 2,4,5-Trichlorophenol	10.75	196	335758	10.81 ug/mL	96
37) 2-Chloronaphthalene	11.00	162	936780	11.28 ug/mL	96
38) 2-Nitroaniline	11.19	65	355287	11.60 ug/mL	99
39) 3-Nitroaniline	11.86	138	187046	26.92 ug/mL	99
40) 1-Methylnaphthalene	10.39	142	901862	10.92 ug/mL	100
41) Dimethylphthalate	11.51	163	1087019	11.06 ug/mL	99
42) Acenaphthylene	11.66	152	1394742	12.90 ug/mL	99
43) 2,6-Dinitrotoluene	11.59	165	245388	11.32 ug/mL	99
44) Acenaphthene	11.94	153	842286	11.33 ug/mL	99
45) 2,4-Dinitrophenol	12.03	184	126003	10.04 ug/mL	92
46) 4-Nitrophenol	12.16	109	154795	10.95 ug/mL#	79
47) Dibenzofuran	12.23	168	1238354	10.28 ug/mL	99
48) 2,4-Dinitrotoluene	12.23	165	313004	11.45 ug/mL#	96
49) Fluorene	12.77	166	1028709	11.49 ug/mL	99
50) Diethylphthalate	12.65	149	1007742	11.09 ug/mL	99
51) 4-Chlorophenyl phenyl ethe	12.79	204	505189	10.92 ug/mL	98
52) 4-Nitroaniline	12.84	138	120102	10.26 ug/mL	92
56) 4,6-Dinitro-2-methylphenol	12.88	198	180688	9.85 ug/mL	94
57) Diphenylamine	12.99	169	839216	15.92 ug/mL	98
58) 4-bromophenyl phenyl ether	13.58	248	278272	10.83 ug/mL	97
59) Hexachlorobenzene	13.66	284	256165	10.15 ug/mL	97
60) Pentachlorophenol	13.99	266	155857	8.39 ug/mL	95
61) Phenanthrene	14.31	178	1325585	10.59 ug/mL	97
63) Anthracene	14.39	178	1347634	11.54 ug/mL	99
64) Azobenzene	13.05	77	1181264	10.70 ug/mL	99
65) Di-n-Butylphthalate	15.29	149	1675457	11.14 ug/mL	99
66) Fluoranthene	16.22	202	1414760	10.74 ug/mL	97
86) Pyrene	16.58	202	1385507	15.21 ug/mL	99
87) Butylbenzylphthalate	17.69	149	578094	13.42 ug/mL	99
88) Benzo[a]anthracene	18.50	228	805062	12.27 ug/mL	98
89) 3,3'-Dichlorobenzidine	18.50	252	197752	19.13 ug/mL	87
90) Chrysene	18.56	228	775363	12.10 ug/mL	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\6071105\0711618.D Vial: 18
Acq On : 12 Jul 2005 12:05 am Operator: MRC
Sample : G161-2055-2J x1 MSD Inst : MSD6
Misc : Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005 Quant Results File: 8270.RES

Quant Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	18.63	149	724885	13.00 ug/mL	97
94)	Di-n-octylphthalate	19.63	149	957153	11.93 ug/mL	100
95)	Benzo[b]fluoranthene	20.18	252	552040	12.37 ug/mL	96
96)	Benzo[k]fluoranthene	20.23	252	611658	12.20 ug/mL	98
97)	Benzo[a]pyrene	20.75	252	484696	13.70 ug/mL	94
98)	Indeno(1,2,3-c,d)pyrene	23.19	276	276867	13.13 ug/mL	96
99)	Dibenzo[a,h]anthracene	23.27	278	277972	13.58 ug/mL#	93
100)	Benzo[g,h,i]perylene	23.90	276	300772	12.52 ug/mL	97

(#) = qualifier out of range (m) = manual integration

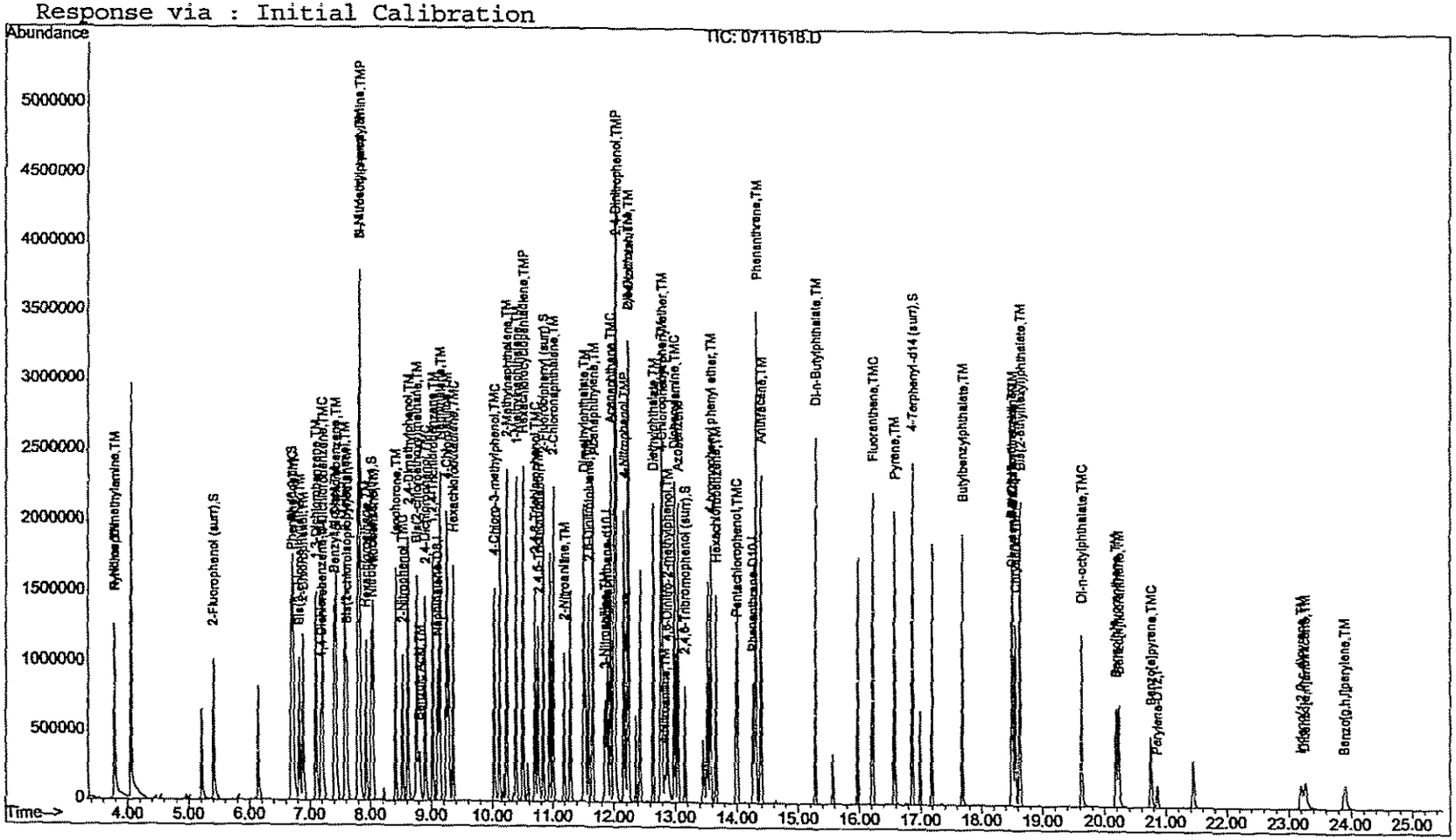
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6071105\0711618.D
Acq On : 12 Jul 2005 12:05 am
Sample : G161-2055-2J x1 MSD
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 13 10:35 2005

Vial: 18
Operator: MRC
Inst : MSD6
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\HPCHEM\1\DATA\6071105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Tue Jun 28 11:27:51 2005
Response via : Initial Calibration



0711618.D 8270.M Wed Jul 13 10:46:49 2005 ENV

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

8270-BN Prep, Standard, Run Logs

3540 / 8270 SOIL Log **Paradigm Analytical Lab** **Batch: 3540/8270 - 3187**

Lab ID	EXT	Date	CH2Cl2 Lot #	Initial Wt (g)	Spike ID	Spike Vol (mL)	Final Vol (mL)	Tech's Init
PB3187	PB	2005-07-07	CO196	32.0	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-7J	MSD	2005-07-07	CO196	333.02	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
G161-2047-7I	MS	2005-07-07	CO196	32.67	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
LCS3187	LCS	2005-07-07	CO196	32.0	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
G161-2047-6I	DUP	2005-07-07	CO196	32.12	8270SRSV03W20B	1.0	10.0	eaw
G106-527-1G		2005-07-07	CO196	32.68	8270SRSV03W20B	1.0	10.0	eaw
G106-527-2G		2005-07-07	CO196	32.63	8270SRSV03W20B	1.0	10.0	eaw
G106-527-3G		2005-07-07	CO196	33.20	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-1H		2005-07-07	CO196	35.18	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-2H		2005-07-07	CO196	32.68	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-3H		2005-07-07	CO196	33.26	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-4H		2005-07-07	CO196	32.28	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-5H		2005-07-07	CO196	32.92	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-6H		2005-07-07	CO196	32.08	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-7H		2005-07-07	CO196	32.04	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-8H		2005-07-07	CO196	32.55	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-9H		2005-07-07	CO196	33.77	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-10J		2005-07-07	CO196	32.81	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-11H		2005-07-07	CO196	32.66	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-12I		2005-07-07	CO196	33.24	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-13H		2005-07-07	CO196	32.32	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-14H		2005-07-07	CO196	32.20	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-15H		2005-07-07	CO196	32.68	8270SRSV03W20B	1.0	10.0	eaw
G161-2047-16H		2005-07-07	CO196	33.44	8270SRSV03W20B	1.0	10.0	eaw
G161-2055-1G		2005-07-07	CO196	33.701	8270SRSV03W20B	1.0	10.0	eaw

Comments: _____

_____

Technician's Signature: _____ Date: _____

3540 / 8270 SOIL Log

Paradigm Analytical Lab

Batch: 3540/8270 - 3202

Lab ID	EXT	Date	CH2Cl2 Lot #	Initial Wt (g)	Spike ID	Spike Vol (mL)	Final Vol (mL)	Tech's Init
PB3202	PB	2005-07-11	CO196	32.0	8270SRSV03W20B	1.0	10.0	eaw
G161-2055-2J	MSD	2005-07-11	CO196	33.36	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
G161-2055-2I	MS	2005-07-11	CO196	32.44	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
LCS3202	LCS	2005-07-11	CO196	32.0	QC: 8270SVMS01W14E SR: 8270SRSV03W20B	QC: 1.0 SR: 1.0	10.0	eaw
G510-234-1G		2005-07-11	CO196	32.57	8270SRSV03W20B	1.0	10.0	eaw
G510-234-2G		2005-07-11	CO196	32.65	8270SRSV03W20B	1.0	10.0	eaw
G510-234-3G		2005-07-11	CO196	33.57	8270SRSV03W20B	1.0	10.0	eaw
G510-234-4G		2005-07-11	CO196	33.40	8270SRSV03W20B	1.0	10.0	eaw
G510-234-5G		2005-07-11	CO196	33.39	8270SRSV03W20B	1.0	10.0	eaw
G161-2055-2H		2005-07-11	CO196	32.52	8270SRSV03W20B	1.0	10.0	eaw

Comments: _____

_____

Technician's Signature: _____ Date: _____

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6062705
Batch ID: 6062705

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
0627601.D	DFTPP 50ng	6/27/2005 16:38	OK			MRC	
0627602.D	SVCAL1	6/27/2005 17:02				MRC	
0627603.D	SVCAL2	6/27/2005 17:36				MRC	
0627604.D	SVCAL4	6/27/2005 18:11				MRC	
0627605.D	SVCAL6	6/27/2005 18:44	GOOD			MRC	
0627606.D	SVCAL8	6/27/2005 19:19	CURVE			MRC	
0627607.D	SVCAL12	6/27/2005 19:54				MRC	
0627608.D	SVCAL24	6/27/2005 20:29				MRC	
0627609.D	SVCAL48	6/27/2005 21:03				MRC	

Analyst: MWL

Page Number: 1885

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6062705
Batch ID: 6070805

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
0708601.D	DFTPP 50ng	7/8/2005 14:07	OK			MRC	
0708602.D	SVCVS6	7/8/2005 14:29	OK			MRC	
0708603.D	SVCVS24	7/8/2005 15:03	OK			MRC	
0708604.D	G312-90-3D x1	7/8/2005 15:37		OK	OK	MRC	
0708605.D	G197-55-1K x1	7/8/2005 16:11				MRC	
0708606.D	LCS3187 x1	7/8/2005 16:46				MRC	
0708607.D	PB3187 x1	7/8/2005 17:19				MRC	
0708608.D	G106-527-1G x1	7/8/2005 17:54				MRC	
0708609.D	G106-527-2G x1	7/8/2005 18:29				MRC	
0708610.D	G106-527-3G x1	7/8/2005 19:04				MRC	
0708611.D	G161-2047-1H x1	7/8/2005 19:38				MRC	
0708612.D	G161-2047-2H x1	7/8/2005 20:12				MRC	
0708613.D	G161-2047-3H x1	7/8/2005 20:46				MRC	
0708614.D	G161-2047-4H x1	7/8/2005 21:22				MRC	
0708615.D	G161-2047-5H x1	7/8/2005 21:58				MRC	
0708616.D	G161-2047-6H x1	7/8/2005 22:33				MRC	
0708617.D	G161-2047-7H x1	7/8/2005 23:08				MRC	
0708618.D	G161-2047-8H x1	7/8/2005 23:43				MRC	
0708619.D	G161-2047-9H x1	7/9/2005 0:17				MRC	
0708620.D	G161-2047-10J x1	7/9/2005 0:52				MRC	

Analyst: mc

Page Number: 1893

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6062705
Batch ID: 6070805

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
0708621.D	G161-2047-11H x1	7/9/2005 1:26		OK	OK	MRC	
0708622.D	G161-2047-12I x1	7/9/2005 2:01				MRC	
0708623.D	G161-2050-1E x1	7/9/2005 2:37				MRC	
0708624.D	G161-2050-2E x1	7/9/2005 3:11				MRC	
0708625.D	G161-2050-3E x1	7/9/2005 3:46				MRC	
0708626.D	G197-55-3K x1	7/9/2005 4:21				MRC	

Analyst: MC

Page Number: 1894

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6062705
Batch ID: 6071105

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
0711601.D	DFTPP 50ng	7/11/2005 14:32	OK			MRC	
0711602.D	SVCVS6	7/11/2005 14:54	OK			MRC	
0711603.D	SVCVS24	7/11/2005 15:29	OK			MRC	
0711604.D	G161-2043-3D x1	7/11/2005 16:03		OK	OK	MRC	
0711605.D	G161-2043-6D x1	7/11/2005 16:37				MRC	
0711606.D	G161-2043-9D x1	7/11/2005 17:11				MRC	
0711607.D	G161-2043-12D x1	7/11/2005 17:44				MRC	
0711608.D	G161-2047-13H x1	7/11/2005 18:19				MRC	x4
0711609.D	G161-2047-14H x1	7/11/2005 18:53				MRC	
0711610.D	G161-2047-15H x1	7/11/2005 19:28				MRC	
0711611.D	G161-2047-16H x1	7/11/2005 20:01				MRC	
0711612.D	G161-2047-6I x1 DUP	7/11/2005 20:36				MRC	
0711613.D	G161-2047-7I x1 MS	7/11/2005 21:10				MRC	
0711614.D	G161-2047-7J x1 MSD	7/11/2005 21:45				MRC	
0711615.D	PB3202 x1	7/11/2005 22:19				MRC	
0711616.D	G161-2055-2H x1	7/11/2005 22:55				MRC	
0711617.D	G161-2055-2I x1 MS	7/11/2005 23:30				MRC	
0711618.D	G161-2055-2J x1 MSD	7/12/2005 0:05				MRC	
0711619.D	LCS3202 x1	7/12/2005 0:40				MRC	
0711620.D	G161-2054-1G x1	7/12/2005 1:14				MRC	

Analyst: mc

Page Number: 1895

N C CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical
MSD6 Runlog

Method: 8270 / 625
Matrix: Water / Soil
ICAL Batch ID: 6062705
Batch ID: 6071105

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
0711621.D	G161-2062-10F x1 DUP	7/12/2005 1:48		ok	ok	MRC	
0711622.D	G161-2055-1G x1	7/12/2005 2:23		↓	↓	MRC	

Analyst: mc

Page Number: 1896

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

VPH Sample Raw Data

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\012F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: G161-2055-1E x1	Injection Number	: 1
Run Time Bar Code	: 138118	Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\012F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.873	13607	PV	0.105	1	2.417	2-Methylpentane
4.201	8947	PV	0.116	1	20.972	MTBE
6.309	77585	VV	0.107	1	14.902	2,2,4-Trimethylpentane
6.537	36936	VV	0.100	1	4.681	Benzene
7.924	208638	VV	0.042	1	22.147	Toluene
8.681	40210	VV	0.047	1	10.089	n-Nonane
8.841	400942	VV	0.040	1	39.194	EBenz, m-,p-Xylene
9.079	184071	VV	0.049	1	18.275	o-Xylene
9.402	97086	VV	0.031	1	373.973	BFB
9.759	220930	VV	0.046	1	23.514	1,2,4-Trimethylbenzene
11.209	12023	VV	0.049	1	2.837	Naphthalene
4.538	8627	PV	0.105		86.272	* uncalibrated *
4.868	5011	PV	0.156		50.111	* uncalibrated *
5.112	13173	VV	0.162		131.733	* uncalibrated *
5.477	13181	VV	0.106		131.811	* uncalibrated *
5.962	19041	PV	0.086		190.412	* uncalibrated *
6.082	45609	VV	0.126		456.086	* uncalibrated *
6.736	9646	VV	0.073		96.461	* uncalibrated *
6.827	9062	VV	0.066		90.618	* uncalibrated *
6.969	37840	VV	0.106		378.403	* uncalibrated *
7.115	23444	VV	0.078		234.437	* uncalibrated *
7.283	61686	VV	0.071		616.863	* uncalibrated *
7.386	103653	VV	0.075		1036.532	* uncalibrated *
7.528	60268	VV	0.098		602.681	* uncalibrated *
7.795	34318	VV	0.069		343.184	* uncalibrated *
8.067	17031	VV	0.068		170.311	* uncalibrated *
8.130	21771	VV	0.078		217.712	* uncalibrated *
8.380	48366	VV	0.064		483.665	* uncalibrated *
8.459	25524	VV	0.047		255.244	* uncalibrated *
8.538	11571	VV	0.058		115.707	* uncalibrated *
9.202	13370	VV	0.044		133.702	* uncalibrated *
9.261	15714	VV	0.044		157.141	* uncalibrated *
9.526	264442	VV	0.055		2644.419	* uncalibrated *
9.690	49118	VV	0.036		491.177	* uncalibrated *
9.888	9809	VV	0.053		98.085	* uncalibrated *
10.008	51655	VV	0.034		516.549	* uncalibrated *
10.112	81270	VV	0.052		812.701	* uncalibrated *
10.181	28121	VV	0.048		281.215	* uncalibrated *
10.272	31250	VV	0.045		312.499	* uncalibrated *
10.322	33549	VV	0.034		335.493	* uncalibrated *
10.398	10452	VV	0.037		104.522	* uncalibrated *
10.446	9753	VV	0.036		97.530	* uncalibrated *

10.517	21772	VV	0.037	217.716	* uncalibrated *
10.558	35983	VV	0.046	359.827	* uncalibrated *
10.646	13515	VV	0.071	135.148	* uncalibrated *
10.762	14700	VV	0.039	147.001	* uncalibrated *
10.798	10561	VV	0.034	105.611	* uncalibrated *
10.854	13382	VV	0.037	133.825	* uncalibrated *
10.976	17983	VV	0.067	179.826	* uncalibrated *
11.067	10700	VV	0.064	106.996	* uncalibrated *
11.351	3566	VV	0.038	35.655	* uncalibrated *
11.481	4934	VV	0.064	49.342	* uncalibrated *
11.762	4075	VV	0.043	40.753	* uncalibrated *
11.908	1203	VV	0.034	12.032	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

==========

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\012R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: G161-2055-1E x1	Injection Number	: 1
Run Time Bar Code	: 138118	Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\012R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.890	14106	BV	0.126	1	1.494	2-Methylpentane
4.219	7594	VV	0.113	1	0.252	MTBE
6.321	98863	VV	0.117	1	6.497	2,2,4-Trimethylpentane
6.604	43971	VV	0.114	1	0.553	Benzene
7.928	504861	VV	0.045	1	12.373	Toluene
8.684	32613	VV	0.059	1	4.805	n-Nonane
8.843	890584	VV	0.042	1	26.329	ethbzene/m,p-xylene
9.081	331329	VV	0.040	1	8.554	o-Xylene
9.405	427346	VV	0.034	1	28.762	BFB(pid)
9.760	419092	VV	0.035	1	13.650	1,2,4-Trimethylbenzene
11.208	21459	VV	0.034	1	1.226	Naphthalene(pid)
2.134	194713	BV	0.105		1947.126	* uncalibrated *
2.484	2762	VB	0.090		27.615	* uncalibrated *
3.217	1959	PV	0.085		19.590	* uncalibrated *
4.073	2300	VV	0.072		22.998	* uncalibrated *
4.543	5184	VV	0.111		51.839	* uncalibrated *
4.873	8750	PV	0.131		87.499	* uncalibrated *
5.120	7758	VV	0.106		77.576	* uncalibrated *
5.214	7399	VV	0.094		73.993	* uncalibrated *
5.490	7289	VV	0.105		72.890	* uncalibrated *
6.081	53995	PV	0.142		539.946	* uncalibrated *
6.737	15165	VV	0.076		151.652	* uncalibrated *
6.828	12659	VV	0.068		126.592	* uncalibrated *
6.989	33639	VV	0.111		336.393	* uncalibrated *
7.122	35225	VV	0.082		352.253	* uncalibrated *
7.292	78069	VV	0.071		780.694	* uncalibrated *
7.392	157865	VV	0.087		1578.649	* uncalibrated *
7.537	76439	VV	0.107		764.391	* uncalibrated *
7.795	36387	VV	0.087		363.869	* uncalibrated *
8.069	31060	VV	0.070		310.598	* uncalibrated *
8.136	25929	VV	0.090		259.291	* uncalibrated *
8.379	52850	VV	0.082		528.502	* uncalibrated *
8.462	26459	VV	0.052		264.594	* uncalibrated *
8.536	16827	VV	0.064		168.267	* uncalibrated *
9.202	14234	VV	0.038		142.343	* uncalibrated *
9.263	28687	VV	0.049		286.870	* uncalibrated *
9.475	61290	VV	0.031		612.899	* uncalibrated *
9.529	469442	VV	0.055		4694.424	* uncalibrated *
9.691	79834	VV	0.037		798.343	* uncalibrated *
9.888	20556	VV	0.051		205.561	* uncalibrated *
10.009	82318	VV	0.034		823.185	* uncalibrated *
10.113	139108	VV	0.052		1391.083	* uncalibrated *

10.182	49329	VV	0.048	493.288	* uncalibrated *
10.273	48798	VV	0.041	487.976	* uncalibrated *
10.322	51444	VV	0.035	514.440	* uncalibrated *
10.398	15550	VV	0.037	155.502	* uncalibrated *
10.447	16128	VV	0.034	161.285	* uncalibrated *
10.518	37683	VV	0.033	376.828	* uncalibrated *
10.559	63372	VV	0.039	633.725	* uncalibrated *
10.646	11739	VV	0.035	117.391	* uncalibrated *
10.695	9961	VV	0.046	99.609	* uncalibrated *
10.762	41471	VV	0.060	414.714	* uncalibrated *
10.854	22126	VV	0.036	221.260	* uncalibrated *
10.977	31911	VV	0.074	319.112	* uncalibrated *
11.069	11141	VV	0.047	111.412	* uncalibrated *
11.265	5324	VV	0.057	53.240	* uncalibrated *
11.352	6326	VV	0.040	63.263	* uncalibrated *
11.482	10295	VV	0.077	102.946	* uncalibrated *
11.762	10674	VV	0.040	106.735	* uncalibrated *
11.907	4138	VB	0.045	41.380	* uncalibrated *
12.358	1591	BBA	0.060	15.914	* uncalibrated *

Not all calibrated peaks were found

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External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\012F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: 138118 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\012F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.873	13607	PV	0.105	1	2.417	2-Methylpentane
4.201	8947	PV	0.116	1	20.972	MTBE
6.309	77585	VV	0.107	1	14.902	2,2,4-Trimethylpentane
6.537	36936	VV	0.100	1	4.681	Benzene
7.924	208638	VV	0.042	1	22.147	Toluene
8.681	40210	VV	0.047	1	10.089	n-Nonane
8.841	400942	VV	0.040	1	39.194	EBenz, m-,p-Xylene
9.079	184071	VV	0.049	1	18.275	o-Xylene
9.402	97086	VV	0.031	1	373.973	BFB
9.759	220930	VV	0.046	1	23.514	1,2,4-Trimethylbenzene
11.209	12023	VV	0.049	1	2.837	Naphthalene
4.538	8627	PV	0.105		86.272	* uncalibrated *
4.868	5011	PV	0.156		50.111	* uncalibrated *
5.112	13173	VV	0.162		131.733	* uncalibrated *
5.477	13181	VV	0.106		131.811	* uncalibrated *
5.962	19041	PV	0.086		190.412	* uncalibrated *
6.082	45609	VV	0.126		456.086	* uncalibrated *
6.736	9646	VV	0.073		96.461	* uncalibrated *
6.827	9062	VV	0.066		90.618	* uncalibrated *
6.969	37840	VV	0.106		378.403	* uncalibrated *
7.115	23444	VV	0.078		234.437	* uncalibrated *
7.283	61686	VV	0.071		616.863	* uncalibrated *
7.386	103653	VV	0.075		1036.532	* uncalibrated *
7.528	60268	VV	0.098		602.681	* uncalibrated *
7.795	34318	VV	0.069		343.184	* uncalibrated *
8.067	17031	VV	0.068		170.311	* uncalibrated *
8.130	21771	VV	0.078		217.712	* uncalibrated *
8.380	48366	VV	0.064		483.665	* uncalibrated *
8.459	25524	VV	0.047		255.244	* uncalibrated *
8.538	11571	VV	0.058		115.707	* uncalibrated *
9.202	13370	VV	0.044		133.702	* uncalibrated *
9.261	15714	VV	0.044		157.141	* uncalibrated *
9.526	264442	VV	0.055		2644.419	* uncalibrated *
9.690	49118	VV	0.036		491.177	* uncalibrated *
9.888	9809	VV	0.053		98.085	* uncalibrated *
10.008	51655	VV	0.034		516.549	* uncalibrated *
10.112	81270	VV	0.052		812.701	* uncalibrated *
10.181	28121	VV	0.048		281.215	* uncalibrated *
10.272	31250	VV	0.045		312.499	* uncalibrated *
10.322	33549	VV	0.034		335.493	* uncalibrated *

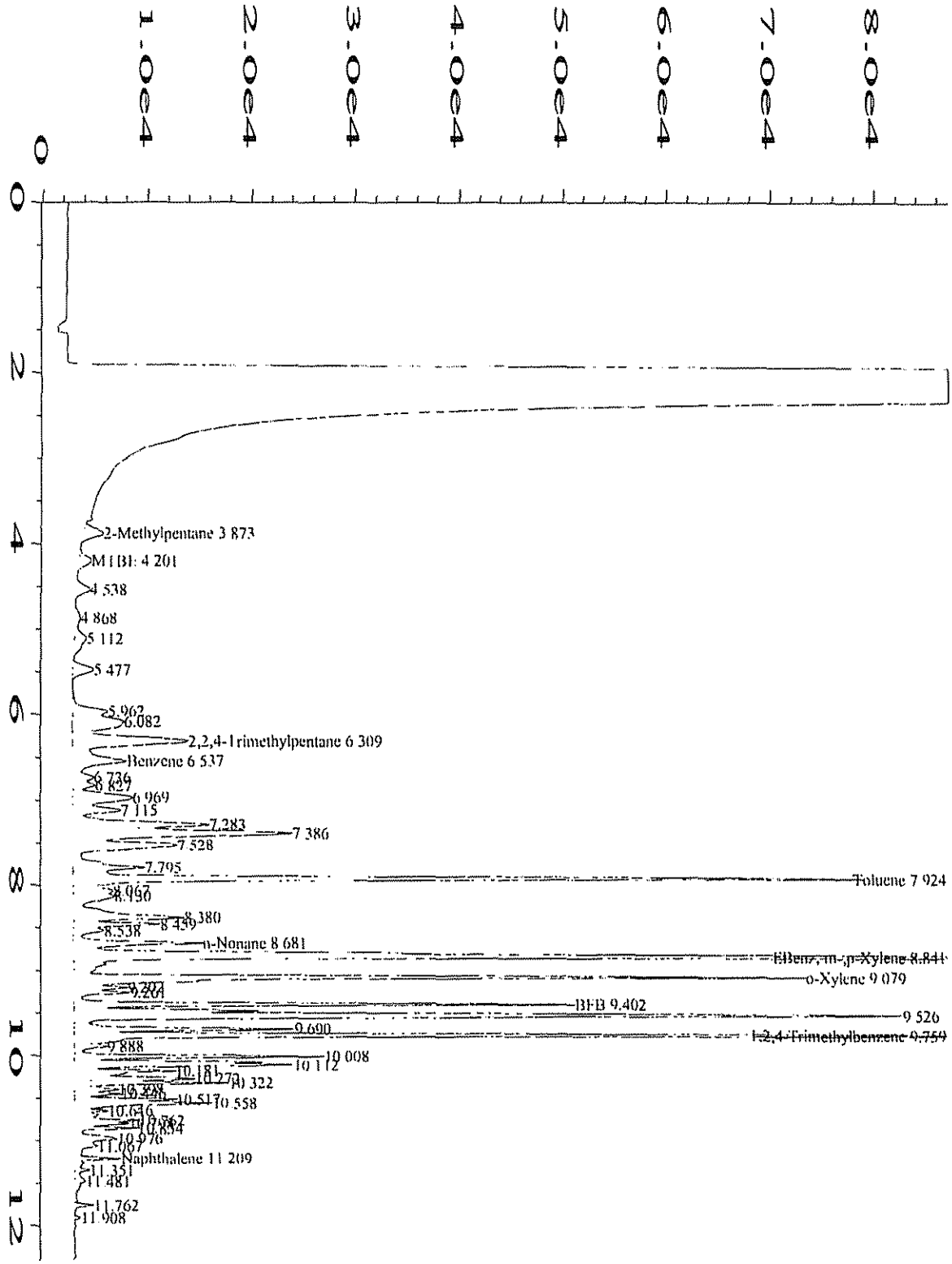
Data File Name	: C:\HPCHEM\1\DATA\vp070805\012F0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: 138118 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.398	10452	VV	0.037	104.522	* uncalibrated *
10.446	9753	VV	0.036	97.530	* uncalibrated *
10.517	21772	VV	0.037	217.716	* uncalibrated *
10.558	35983	VV	0.046	359.827	* uncalibrated *
10.646	13515	VV	0.071	135.148	* uncalibrated *
10.762	14700	VV	0.039	147.001	* uncalibrated *
10.798	10561	VV	0.034	105.611	* uncalibrated *
10.854	13382	VV	0.037	133.825	* uncalibrated *
10.976	17983	VV	0.067	179.826	* uncalibrated *
11.067	10700	VV	0.064	106.996	* uncalibrated *
11.351	3566	VV	0.038	35.655	* uncalibrated *
11.481	4934	VV	0.064	49.342	* uncalibrated *
11.762	4075	VV	0.043	40.753	* uncalibrated *
11.908	1203	VV	0.034	12.032	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

==========



Data File Name	: C:\HPCHEM\1\DATA\vp070805\012F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: 138118 xl	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 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

Data File Name : C:\HPCHEM\1\DATA\vp070805\012R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : 138118 x1
Run Time Bar Code:
Acquired on : 08 Jul 05 12:23 PM
Report Created on: 08 Jul 05 04:15 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\012R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.890	14106	BV	0.126	1	1.494	2-Methylpentane
4.219	7594	VV	0.113	1	0.252	MTBE
6.321	98863	VV	0.117	1	6.497	2,2,4-Trimethylpentane
6.604	43971	VV	0.114	1	0.553	Benzene
7.928	504861	VV	0.045	1	12.373	Toluene
8.684	32613	VV	0.059	1	4.805	n-Nonane
8.843	890584	VV	0.042	1	26.329	ethbzene/m,p-xylene
9.081	331329	VV	0.040	1	8.554	o-Xylene
9.405	427346	VV	0.034	1	28.762	BFB(pid)
9.760	419092	VV	0.035	1	13.650	1,2,4-Trimethylbenzene
11.208	21459	VV	0.034	1	1.226	Naphthalene(pid)
2.134	194713	BV	0.105		1947.126	* uncalibrated *
2.484	2762	VB	0.090		27.615	* uncalibrated *
3.217	1959	PV	0.085		19.590	* uncalibrated *
4.073	2300	VV	0.072		22.998	* uncalibrated *
4.543	5184	VV	0.111		51.839	* uncalibrated *
4.873	8750	PV	0.131		87.499	* uncalibrated *
5.120	7758	VV	0.106		77.576	* uncalibrated *
5.214	7399	VV	0.094		73.993	* uncalibrated *
5.490	7289	VV	0.105		72.890	* uncalibrated *
6.081	53995	PV	0.142		539.946	* uncalibrated *
6.737	15165	VV	0.076		151.652	* uncalibrated *
6.828	12659	VV	0.068		126.592	* uncalibrated *
6.989	33639	VV	0.111		336.393	* uncalibrated *
7.122	35225	VV	0.082		352.253	* uncalibrated *
7.292	78069	VV	0.071		780.694	* uncalibrated *
7.392	157865	VV	0.087		1578.649	* uncalibrated *
7.537	76439	VV	0.107		764.391	* uncalibrated *
7.795	36387	VV	0.087		363.869	* uncalibrated *
8.069	31060	VV	0.070		310.598	* uncalibrated *
8.136	25929	VV	0.090		259.291	* uncalibrated *
8.379	52850	VV	0.082		528.502	* uncalibrated *
8.462	26459	VV	0.052		264.594	* uncalibrated *
8.536	16827	VV	0.064		168.267	* uncalibrated *
9.202	14234	VV	0.038		142.343	* uncalibrated *
9.263	28687	VV	0.049		286.870	* uncalibrated *
9.475	61290	VV	0.031		612.899	* uncalibrated *
9.529	469442	VV	0.055		4694.424	* uncalibrated *
9.691	79834	VV	0.037		798.343	* uncalibrated *
9.888	20556	VV	0.051		205.561	* uncalibrated *

Data File Name : C:\HPCHEM\1\DATA\vp070805\012R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : 138118 x1
Run Time Bar Code:
Acquired on : 08 Jul 05 12:23 PM
Report Created on: 08 Jul 05 04:15 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

10.009	82318	VV	0.034	823.185	* uncalibrated *
10.113	139108	VV	0.052	1391.083	* uncalibrated *
10.182	49329	VV	0.048	493.288	* uncalibrated *
10.273	48798	VV	0.041	487.976	* uncalibrated *
10.322	51444	VV	0.035	514.440	* uncalibrated *
10.398	15550	VV	0.037	155.502	* uncalibrated *
10.447	16128	VV	0.034	161.285	* uncalibrated *
10.518	37683	VV	0.033	376.828	* uncalibrated *
10.559	63372	VV	0.039	633.725	* uncalibrated *
10.646	11739	VV	0.035	117.391	* uncalibrated *
10.695	9961	VV	0.046	99.609	* uncalibrated *
10.762	41471	VV	0.060	414.714	* uncalibrated *
10.854	22126	VV	0.036	221.260	* uncalibrated *
10.977	31911	VV	0.074	319.112	* uncalibrated *
11.069	11141	VV	0.047	111.412	* uncalibrated *
11.265	5324	VV	0.057	53.240	* uncalibrated *
11.352	6326	VV	0.040	63.263	* uncalibrated *
11.482	10295	VV	0.077	102.946	* uncalibrated *
11.762	10674	VV	0.040	106.735	* uncalibrated *
11.907	4138	VB	0.045	41.380	* uncalibrated *
12.358	1591	BBA	0.060	15.914	* uncalibrated *

Not all calibrated peaks were found

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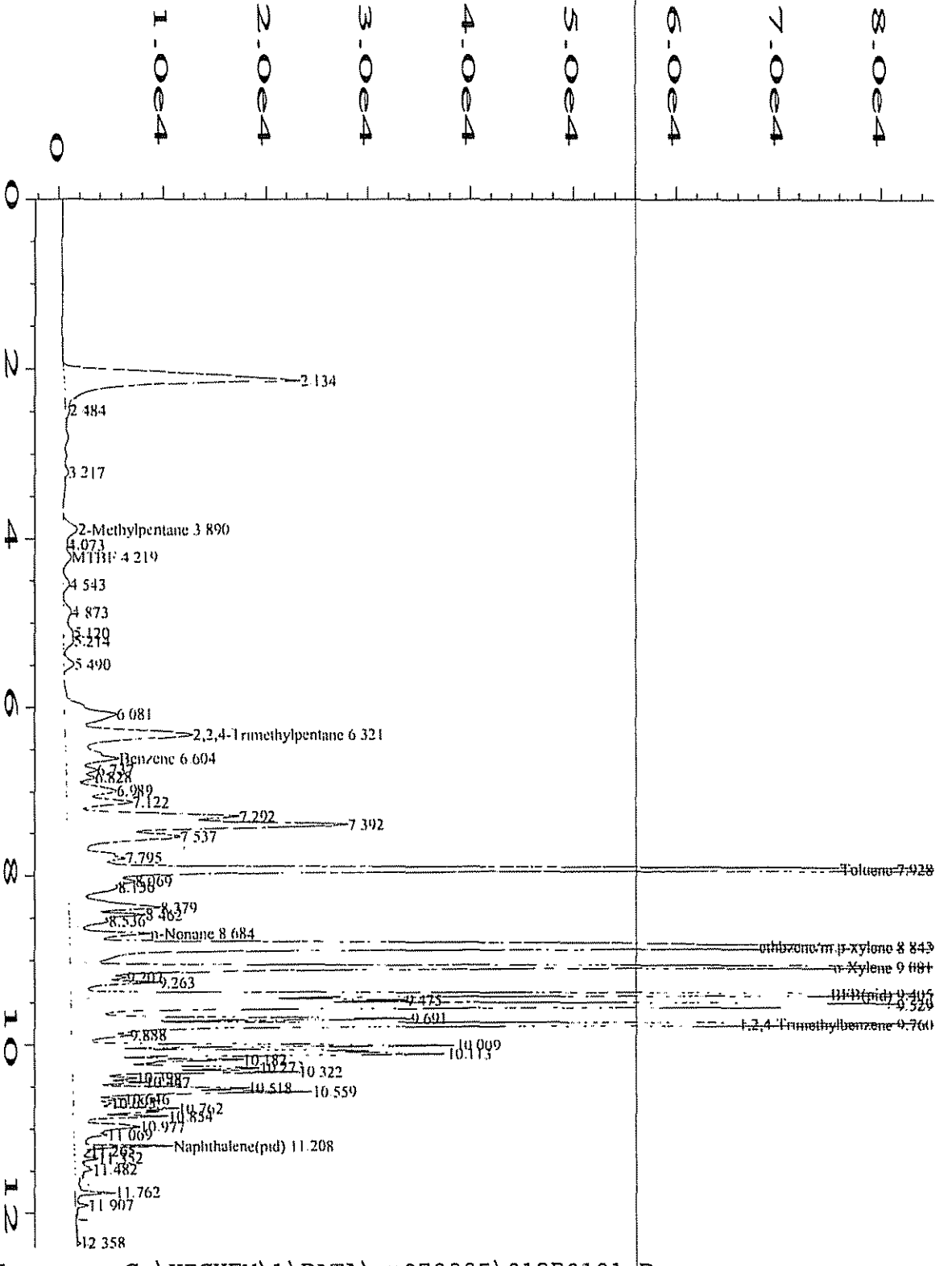

Data File Name	: C:\HPCHEM\1\DATA\vp070805\012R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 12
Sample Name	: 138118 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:23 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 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

Data File Name : C:\HPCHEM\1\DATA\vp070805\013F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G161-2055-2E x1
Run Time Bar Code: 138124
Acquired on : 08 Jul 05 12:48 PM
Report Created on: 08 Jul 05 04:15 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\013F0101.D

Ret 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	7139	VV	0.102	1	1.371	2,2,4-Trimethylpentane
6.538	2132	VB	0.092	1	0.270	Benzene
7.926	5486	VV	0.053	1	0.582	Toluene
8.684	11454	PV	0.044	1	2.874	n-Nonane
8.843	6698	VV	0.043	1	0.655	EBenz, m-,p-Xylene
9.085	2169	BV	0.038	1	0.215	o-Xylene
9.403	83889	PV	0.029	1	323.141	BFB
9.762	8525	VV	0.042	1	0.907	1,2,4-Trimethylbenzene
11.209	2189	VV	0.037	1	0.517	Naphthalene
6.966	1313	BV	0.070		13.126	* uncalibrated *
7.285	3367	BV	0.065		33.670	* uncalibrated *
7.390	8027	VV	0.077		80.270	* uncalibrated *
7.520	6085	VV	0.091		60.849	* uncalibrated *
7.797	1642	PV	0.051		16.424	* uncalibrated *
8.385	4051	PV	0.059		40.513	* uncalibrated *
8.462	3363	VV	0.063		33.634	* uncalibrated *
9.134	3268	VV	0.046		32.677	* uncalibrated *
9.528	7968	VV	0.056		79.676	* uncalibrated *
9.691	1754	VV	0.046		17.545	* uncalibrated *
9.881	1965	VV	0.037		19.647	* uncalibrated *
10.005	2344	VV	0.037		23.442	* uncalibrated *
10.114	5300	VV	0.053		53.001	* uncalibrated *
10.277	1753	VV	0.039		17.533	* uncalibrated *
10.324	2800	VV	0.038		27.999	* uncalibrated *
10.556	5276	VV	0.056		52.765	* uncalibrated *
10.762	1237	VV	0.039		12.367	* uncalibrated *
10.803	1318	VV	0.035		13.184	* uncalibrated *
10.854	1453	VV	0.039		14.533	* uncalibrated *
10.974	2326	VV	0.066		23.256	* uncalibrated *
11.055	1732	VV	0.050		17.316	* uncalibrated *
11.763	2319	VV	0.045		23.187	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\vp070805\013R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G161-2055-2E x1
Run Time Bar Code: 138124
Acquired on : 08 Jul 05 12:48 PM
Report Created on: 08 Jul 05 04:15 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\013R0101.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
6.320	7605	VV	0.103	1	0.500	2,2,4-Trimethylpentane
6.604	2446	VB	0.094	1	0.0307	Benzene
7.927	7637	VV	0.043	1	0.187	Toluene
8.687	5787	PV	0.048	1	0.853	n-Nonane
8.844	13484	VB	0.044	1	0.399	ethbzene/m,p-xylene
9.085	6860	BV	0.058	1	0.177	o-Xylene
9.405	394458	PV	0.033	1	26.549	BFB(pid)
9.762	12095	VV	0.038	1	0.394	1,2,4-Trimethylbenzene
11.209	2871	BV	0.029	1	0.164	Naphthalene(pid)
2.135	200826	BV	0.106		2008.262	* uncalibrated *
2.675	272	VB	0.058		2.724	* uncalibrated *
6.982	1397	BV	0.081		13.969	* uncalibrated *
7.292	3759	PV	0.064		37.590	* uncalibrated *
7.391	9204	VV	0.080		92.043	* uncalibrated *
7.531	5432	VV	0.110		54.320	* uncalibrated *
8.385	3149	BV	0.066		31.495	* uncalibrated *
8.465	2760	VV	0.069		27.598	* uncalibrated *
9.530	13300	VV	0.059		133.002	* uncalibrated *
9.692	2572	VV	0.046		25.721	* uncalibrated *
9.882	3549	VV	0.042		35.486	* uncalibrated *
10.009	2249	VV	0.036		22.494	* uncalibrated *
10.115	7623	VV	0.050		76.227	* uncalibrated *
10.277	2128	VV	0.038		21.277	* uncalibrated *
10.324	2932	VV	0.034		29.317	* uncalibrated *
10.560	6686	VV	0.053		66.863	* uncalibrated *
10.648	630	VV	0.029		6.304	* uncalibrated *
10.763	1366	VV	0.035		13.664	* uncalibrated *
10.804	1761	VV	0.035		17.614	* uncalibrated *
10.854	1275	VV	0.035		12.751	* uncalibrated *
10.976	2482	PV	0.061		24.815	* uncalibrated *
11.061	1149	VB	0.054		11.487	* uncalibrated *
11.353	559	PV	0.030		5.590	* uncalibrated *
11.483	578	VV	0.043		5.780	* uncalibrated *
11.763	3180	BV	0.034		31.805	* uncalibrated *
11.908	982	PV	0.031		9.818	* uncalibrated *
12.359	643	PBA	0.033		6.432	* uncalibrated *

Not all calibrated peaks were found

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\013F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\013F0101.D

Ret 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	7139	VV	0.102	1	1.371	2,2,4-Trimethylpentane
6.538	2132	VB	0.092	1	0.270	Benzene
7.926	5486	VV	0.053	1	0.582	Toluene
8.684	11454	PV	0.044	1	2.874	n-Nonane
8.843	6698	VV	0.043	1	0.655	EBenz, m-,p-Xylene
9.085	2169	BV	0.038	1	0.215	o-Xylene
9.403	83889	PV	0.029	1	323.141	BFB
9.762	8525	VV	0.042	1	0.907	1,2,4-Trimethylbenzene
11.209	2189	VV	0.037	1	0.517	Naphthalene
6.966	1313	BV	0.070		13.126	* uncalibrated *
7.285	3367	BV	0.065		33.670	* uncalibrated *
7.390	8027	VV	0.077		80.270	* uncalibrated *
7.520	6085	VV	0.091		60.849	* uncalibrated *
7.797	1642	PV	0.051		16.424	* uncalibrated *
8.385	4051	PV	0.059		40.513	* uncalibrated *
8.462	3363	VV	0.063		33.634	* uncalibrated *
9.134	3268	VV	0.046		32.677	* uncalibrated *
9.528	7968	VV	0.056		79.676	* uncalibrated *
9.691	1754	VV	0.046		17.545	* uncalibrated *
9.881	1965	VV	0.037		19.647	* uncalibrated *
10.005	2344	VV	0.037		23.442	* uncalibrated *
10.114	5300	VV	0.053		53.001	* uncalibrated *
10.277	1753	VV	0.039		17.533	* uncalibrated *
10.324	2800	VV	0.038		27.999	* uncalibrated *
10.556	5276	VV	0.056		52.765	* uncalibrated *
10.762	1237	VV	0.039		12.367	* uncalibrated *
10.803	1318	VV	0.035		13.184	* uncalibrated *
10.854	1453	VV	0.039		14.533	* uncalibrated *
10.974	2326	VV	0.066		23.256	* uncalibrated *
11.055	1732	VV	0.050		17.316	* uncalibrated *
11.763	2319	VV	0.045		23.187	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

Data File Name	: C:\HPCHEM\1\DATA\vp070805\013F0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

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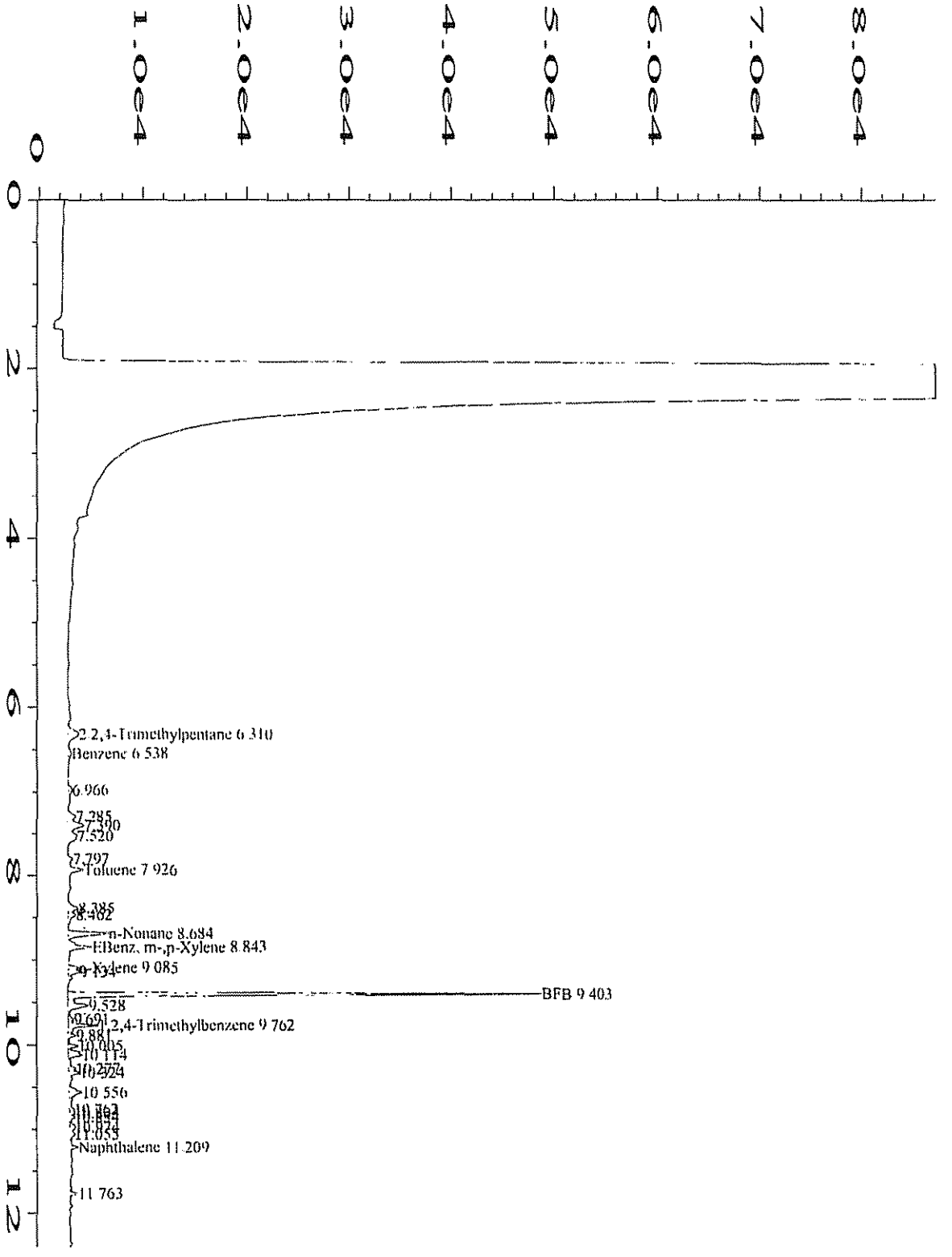

Data File Name	: C:\HPCHEM\1\DATA\vp070805\013F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 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

Data File Name	: C:\HPCHEM\1\DATA\vp070805\013R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\013R0101.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
6.320	7605	VV	0.103	1	0.500	2,2,4-Trimethylpentane
6.604	2446	VB	0.094	1	0.0307	Benzene
7.927	7637	VV	0.043	1	0.187	Toluene
8.687	5787	PV	0.048	1	0.853	n-Nonane
8.844	13484	VB	0.044	1	0.399	ethbzene/m,p-xylene
9.085	6860	BV	0.058	1	0.177	o-Xylene
9.405	394458	PV	0.033	1	26.549	BFB(pid)
9.762	12095	VV	0.038	1	0.394	1,2,4-Trimethylbenzene
11.209	2871	BV	0.029	1	0.164	Naphthalene(pid)
2.135	200826	BV	0.106		2008.262	* uncalibrated *
2.675	272	VB	0.058		2.724	* uncalibrated *
6.982	1397	BV	0.081		13.969	* uncalibrated *
7.292	3759	PV	0.064		37.590	* uncalibrated *
7.391	9204	VV	0.080		92.043	* uncalibrated *
7.531	5432	VV	0.110		54.320	* uncalibrated *
8.385	3149	BV	0.066		31.495	* uncalibrated *
8.465	2760	VV	0.069		27.598	* uncalibrated *
9.530	13300	VV	0.059		133.002	* uncalibrated *
9.692	2572	VV	0.046		25.721	* uncalibrated *
9.882	3549	VV	0.042		35.486	* uncalibrated *
10.009	2249	VV	0.036		22.494	* uncalibrated *
10.115	7623	VV	0.050		76.227	* uncalibrated *
10.277	2128	VV	0.038		21.277	* uncalibrated *
10.324	2932	VV	0.034		29.317	* uncalibrated *
10.560	6686	VV	0.053		66.863	* uncalibrated *
10.648	630	VV	0.029		6.304	* uncalibrated *
10.763	1366	VV	0.035		13.664	* uncalibrated *
10.804	1761	VV	0.035		17.614	* uncalibrated *
10.854	1275	VV	0.035		12.751	* uncalibrated *
10.976	2482	PV	0.061		24.815	* uncalibrated *
11.061	1149	VB	0.054		11.487	* uncalibrated *
11.353	559	PV	0.030		5.590	* uncalibrated *
11.483	578	VV	0.043		5.780	* uncalibrated *
11.763	3180	BV	0.034		31.805	* uncalibrated *
11.908	982	PV	0.031		9.818	* uncalibrated *
12.359	643	PBA	0.033		6.432	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\013R0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 04:15 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Not all calibrated peaks were found

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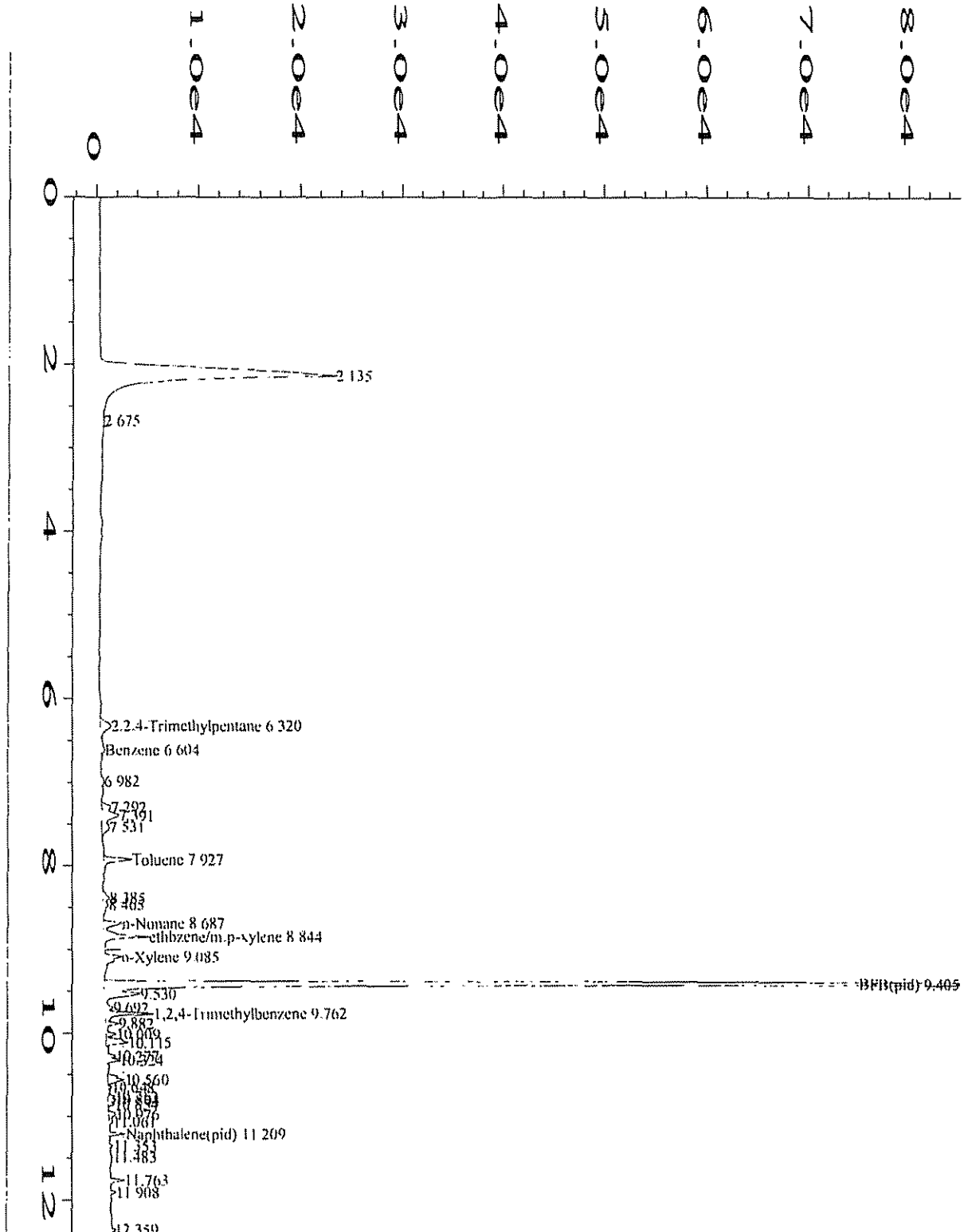


Data File Name	: C:\HPCHEM\1\DATA\vp070805\013R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: 138124 x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 12:48 PM	Instrument Method:	GAS1.MTH
Report Created on:	08 Jul 05 04:15 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

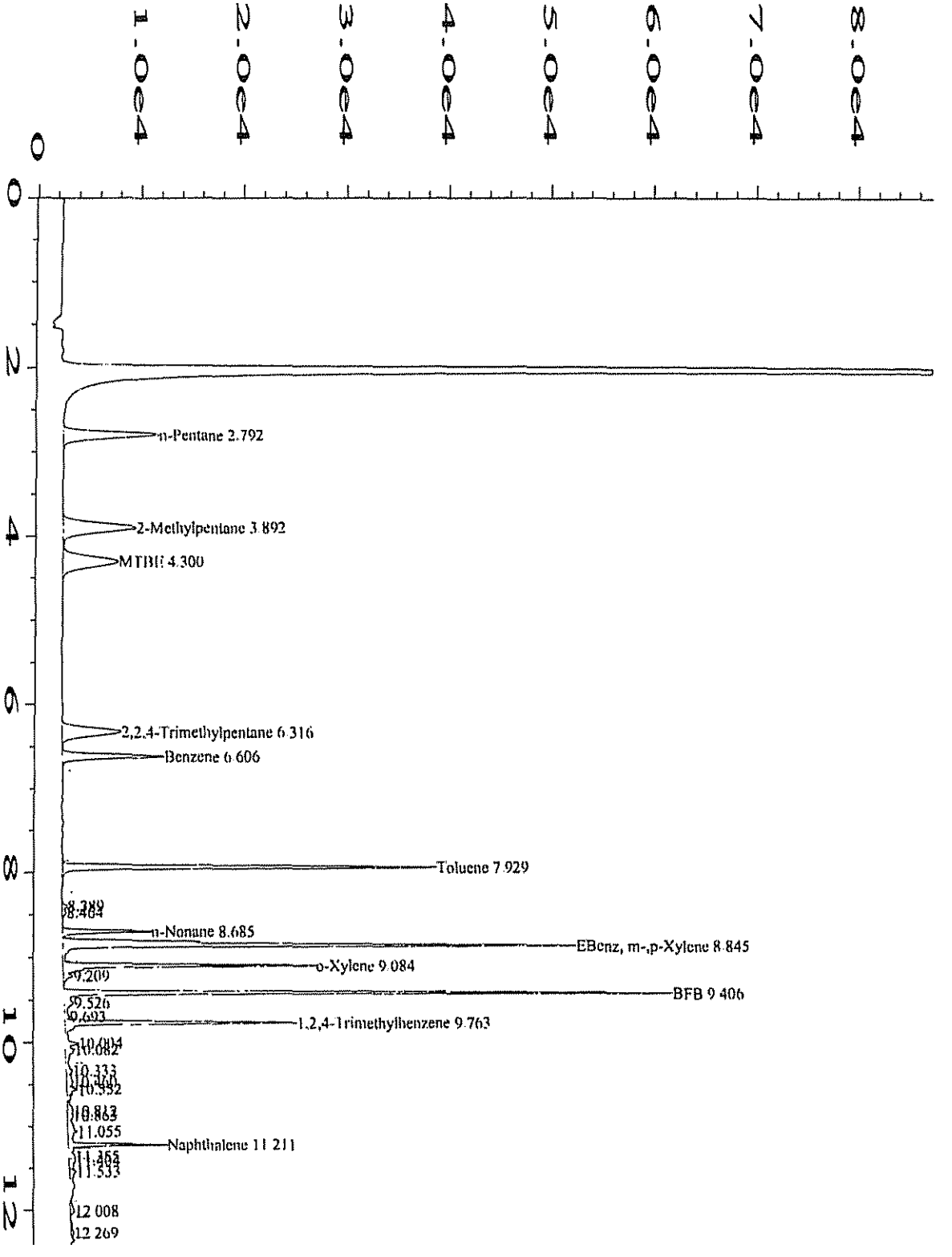
Data File Name	: C:\HPCHEM\1\DATA\vp060805\003F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 11:43 AM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\003F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.792	50606	BB	0.083	1	50.476	n-Pentane
3.892	53831	BV	0.110	1	9.561	2-Methylpentane
4.300	46273	VB	0.132	1	108.471	MTBE
6.316	37685	BV	0.103	1	7.238	2,2,4-Trimethylpentane
6.606	34745	VB	0.055	1	4.404	Benzene
7.929	88108	BV	0.038	1	9.353	Toluene
8.685	19851	BV	0.036	1	4.981	n-Nonane
8.845	132408	VV	0.039	1	12.944	EBenz, m-,p-Xylene
9.084	57160	VV	0.036	1	5.675	o-Xylene
9.406	108461	VV	0.029	1	417.792	BFB
9.763	47880	VV	0.033	1	5.096	1,2,4-Trimethylbenzene
11.211	18296	VV	0.029	1	4.317	Naphthalene
8.389	1780	BV	0.050		17.803	* uncalibrated *
8.464	1782	VB	0.059		17.820	* uncalibrated *
9.209	3348	VV	0.051		33.479	* uncalibrated *
9.526	5139	VV	0.076		51.389	* uncalibrated *
9.693	1644	VV	0.060		16.443	* uncalibrated *
10.004	5267	VV	0.055		52.671	* uncalibrated *
10.082	6009	VV	0.092		60.094	* uncalibrated *
10.333	3028	VV	0.069		30.282	* uncalibrated *
10.460	4140	VV	0.090		41.398	* uncalibrated *
10.552	4033	VV	0.053		40.331	* uncalibrated *
10.812	3428	VV	0.097		34.276	* uncalibrated *
10.863	2592	VV	0.070		25.919	* uncalibrated *
11.055	7134	VV	0.099		71.338	* uncalibrated *
11.355	2254	VV	0.062		22.539	* uncalibrated *
11.404	3619	VV	0.074		36.189	* uncalibrated *
11.533	2897	VV	0.066		28.973	* uncalibrated *
12.008	2517	VV	0.084		25.174	* uncalibrated *
12.269	1979	PV	0.097		19.794	* uncalibrated *

Calibration table contains at least one peak with amt = 0

(



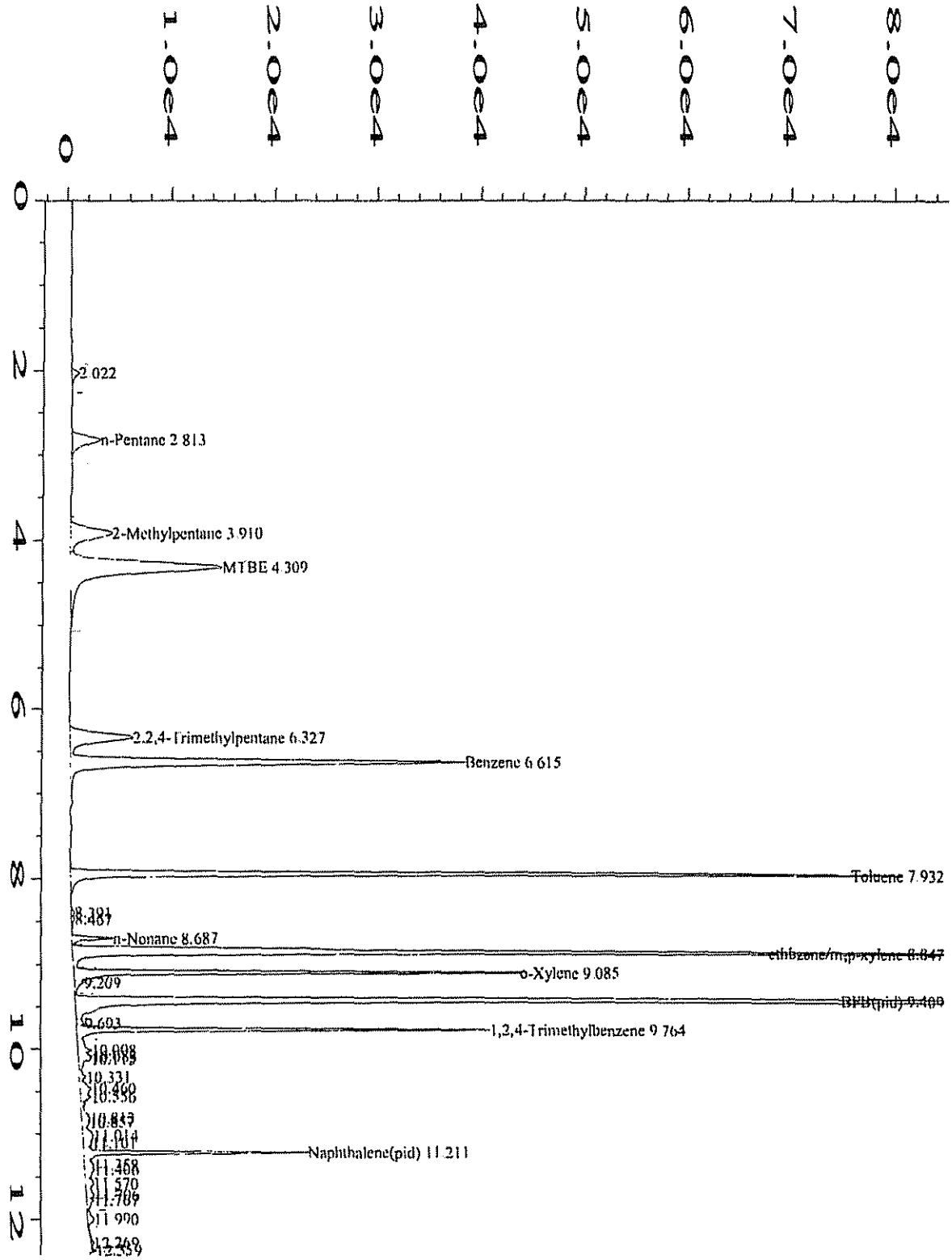
Data File Name	: C:\HPCHEM\1\DATA\vp060805\003F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 11:43 AM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\003R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 3
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 11:43 AM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\003R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.813	19294	BV	0.100	1	3.077	n-Pentane
3.910	34763	BV	0.128	1	3.681	2-Methylpentane
4.309	140904	VB	0.146	1	4.675	MTBE
6.327	44137	BV	0.113	1	2.901	2,2,4-Trimethylpentane
6.615	167394	VV	0.067	1	2.104	Benzene
7.932	210603	VV	0.041	1	5.161	Toluene
8.687	9610	PV	0.038	1	1.416	n-Nonane
8.847	280884	VV	0.080	1	8.304	ethbzene/m,p-xylene
9.085	101093	VV	0.036	1	2.610	o-Xylene
9.409	554365	VV	0.034	1	37.311	BFB(pid)
9.764	85283	VV	0.034	1	2.778	1,2,4-Trimethylbenzene
11.211	43255	VV	0.031	1	2.471	Naphthalene(pid)
2.022	4247	BB	0.083		42.472	* uncalibrated *
8.391	1322	PV	0.056		13.217	* uncalibrated *
8.467	1509	VV	0.066		15.090	* uncalibrated *
9.209	4350	VV	0.079		43.499	* uncalibrated *
9.693	2610	VV	0.061		26.100	* uncalibrated *
10.008	7802	VV	0.081		78.021	* uncalibrated *
10.083	3817	VV	0.050		38.169	* uncalibrated *
10.115	4657	VV	0.069		46.572	* uncalibrated *
10.331	3009	VV	0.065		30.088	* uncalibrated *
10.460	6569	VV	0.088		65.688	* uncalibrated *
10.556	3899	VV	0.056		38.987	* uncalibrated *
10.813	4669	VV	0.099		46.686	* uncalibrated *
10.857	2946	VV	0.065		29.458	* uncalibrated *
11.014	7597	VV	0.102		75.973	* uncalibrated *
11.101	2435	VV	0.051		24.352	* uncalibrated *
11.358	3401	VV	0.064		34.006	* uncalibrated *
11.406	5290	VV	0.099		52.903	* uncalibrated *
11.570	4482	VV	0.103		44.816	* uncalibrated *
11.706	3843	VV	0.074		38.425	* uncalibrated *
11.767	3389	VV	0.087		33.886	* uncalibrated *
11.990	3998	VV	0.102		39.979	* uncalibrated *
12.269	1518	PV	0.076		15.176	* uncalibrated *
12.359	884	PBA	0.047		8.843	* uncalibrated *



Data File Name : C:\HPCHEM\1\DATA\vp060805\003R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : v10
Run Time Bar Code:
Acquired on : 08 Jun 05 11:43 AM
Report Created on: 13 Jul 05 04:35 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

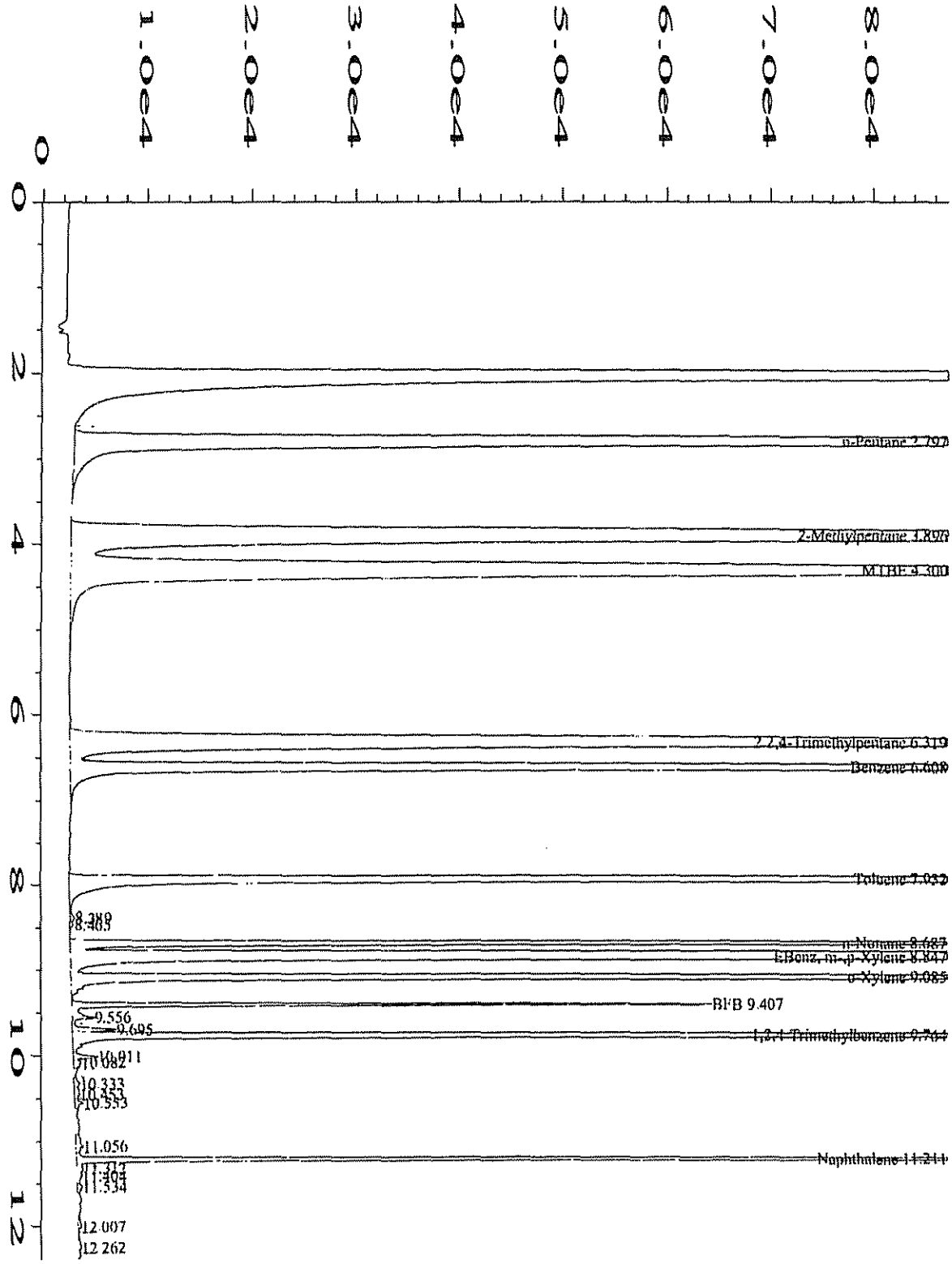
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\004F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: v250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:08 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\004F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.797	1247221	BB	0.087	1	2837.575	n-Pentane
3.896	1374822	BV	0.119	1	1853.631	2-Methylpentane
4.300	1190286	VB	0.134	1	32418.19	MTBE
6.319	982259	VV	0.103	1	2004.094	2,2,4-Trimethylpentane
6.608	905386	VV	0.056	1	816.518	Benzene
7.932	2231489	VV	0.038	1	2315.879	Toluene
8.687	473923	PV	0.035	1	574.862	n-Nonane
8.847	3238432	VV	0.038	1	3472.848	EBenz, m-,p-Xylene
9.085	1289972	VV	0.063	1	1399.492	o-Xylene
9.407	112559	VV	0.030	1	433.575	BFB
9.764	1053332	VV	0.031	1	1210.666	1,2,4-Trimethylbenzene
11.211	388249	VV	0.027	1	-2414.976	Naphthalene
8.389	1965	VV	0.059		19.650	* uncalibrated *
8.465	1570	VV	0.057		15.699	* uncalibrated *
9.556	7874	VV	0.053		78.738	* uncalibrated *
9.695	8657	VV	0.034		86.572	* uncalibrated *
10.011	6061	VV	0.039		60.610	* uncalibrated *
10.082	3311	VV	0.079		33.113	* uncalibrated *
10.333	2681	VV	0.069		26.814	* uncalibrated *
10.453	3069	VV	0.084		30.687	* uncalibrated *
10.553	3014	VV	0.060		30.139	* uncalibrated *
11.056	5356	VV	0.102		53.564	* uncalibrated *
11.312	2623	VV	0.082		26.227	* uncalibrated *
11.404	2752	VV	0.072		27.516	* uncalibrated *
11.534	2407	VV	0.067		24.072	* uncalibrated *
12.007	1962	VV	0.084		19.615	* uncalibrated *
12.262	1534	PV	0.102		15.337	* uncalibrated *

Calibration table contains at least one peak with amt = 0



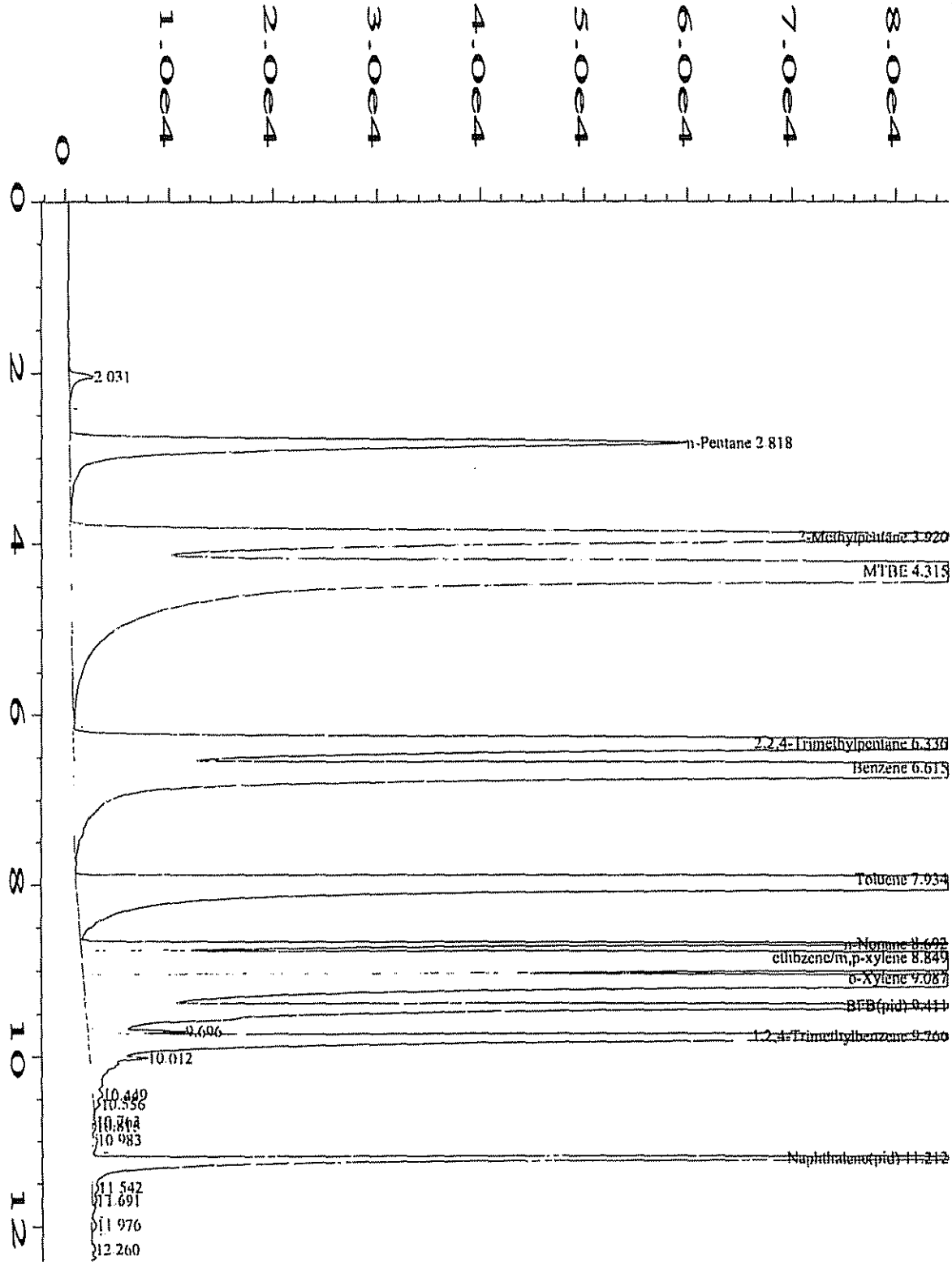
Data File Name	: C:\HPCHEM\1\DATA\vp060805\004F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: v250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:08 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: v250	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jun 05 12:08 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\004R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.818	481241	BV	0.119	1	76.740	n-Pentane
3.920	1039290	BV	0.143	1	110.056	2-Methylpentane
4.315	4913667	VV	0.162	1	163.013	MTBE
6.336	1488485	VV	0.126	1	97.826	2,2,4-Trimethylpentane
6.615	4891751	VV	0.079	1	61.483	Benzene
7.934	7370225	PV	0.051	1	180.625	Toluene
8.692	310637	VV	0.044	1	45.768	n-Nonane
8.849	9417259	VV	0.049	1	278.410	ethbzene/m,p-xylene
9.087	3857027	VV	0.047	1	99.579	o-Xylene
9.411	940271	VV	0.045	1	63.285	BFB(pid)
9.766	2422481	VV	0.036	1	78.902	1,2,4-Trimethylbenzene
11.212	1060777	VV	0.030	1	60.606	Naphthalene(pid)
2.031	15283	BB	0.089		152.831	* uncalibrated *
9.696	23439	VV	0.041		234.386	* uncalibrated *
10.012	20242	VV	0.050		202.421	* uncalibrated *
10.449	6189	VV	0.083		61.890	* uncalibrated *
10.556	2931	VV	0.059		29.307	* uncalibrated *
10.763	747	BV	0.037		7.470	* uncalibrated *
10.815	1376	VV	0.064		13.764	* uncalibrated *
10.983	3538	PV	0.115		35.384	* uncalibrated *
11.542	3462	VV	0.087		34.624	* uncalibrated *
11.691	2640	VV	0.076		26.401	* uncalibrated *
11.976	3132	VV	0.098		31.320	* uncalibrated *
12.260	1892	PV	0.084		18.916	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp060805\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: v250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:08 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

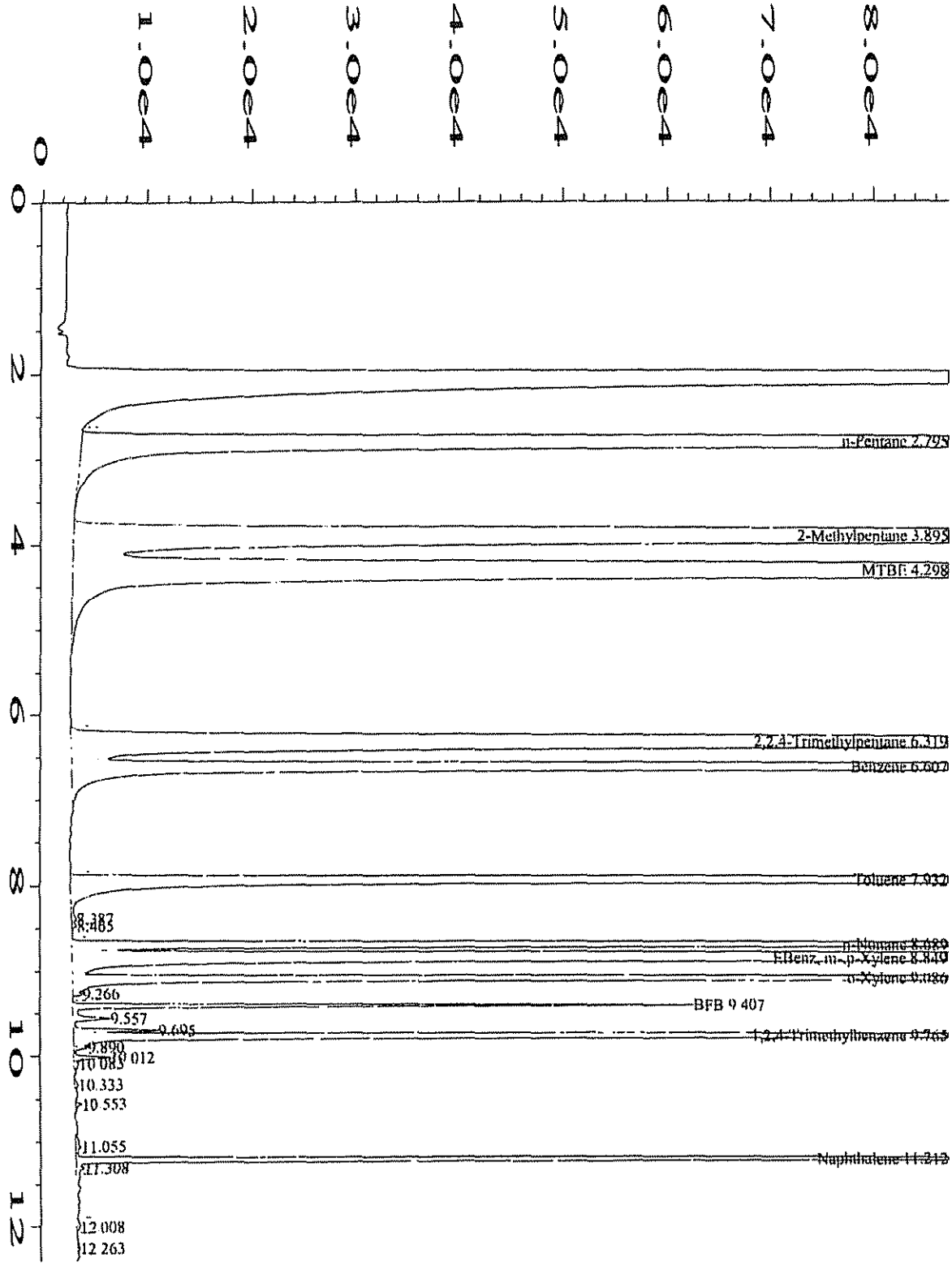
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: v500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:33 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.795	2532734	BV	0.087	1	6540.663	n-Pentane
3.895	2851760	PV	0.120	1	4408.166	2-Methylpentane
4.298	2527589	VB	0.134	1	77959.53	MTBE
6.319	2119282	VV	0.103	1	5303.912	2,2,4-Trimethylpentane
6.607	1867935	VV	0.056	1	1842.071	Benzene
7.932	4419114	VV	0.038	1	5277.617	Toluene
8.689	1582864	BV	0.035	1	2460.752	n-Nonane
8.849	6585271	VV	0.037	1	8568.118	EBenz, m-,p-Xylene
9.086	2556473	VV	0.033	1	3340.445	o-Xylene
9.407	107976	PV	0.029	1	415.922	BFB
9.765	2113436	VV	0.031	1	3042.428	1,2,4-Trimethylbenzene
11.212	856685	VV	0.026	1	-7672.628	Naphthalene
8.387	2166	VV	0.062		21.660	* uncalibrated *
8.465	1627	VB	0.051		16.269	* uncalibrated *
9.266	2229	VV	0.038		22.289	* uncalibrated *
9.557	9689	VV	0.040		96.887	* uncalibrated *
9.695	16494	VV	0.034		164.943	* uncalibrated *
9.890	3109	VV	0.040		31.090	* uncalibrated *
10.012	7540	VV	0.034		75.404	* uncalibrated *
10.083	1975	VV	0.060		19.751	* uncalibrated *
10.333	1408	PV	0.059		14.080	* uncalibrated *
10.553	1484	VV	0.039		14.838	* uncalibrated *
11.055	3505	VV	0.087		35.050	* uncalibrated *
11.308	2685	VV	0.049		26.853	* uncalibrated *
12.008	1755	VV	0.082		17.548	* uncalibrated *
12.263	1292	PV	0.096		12.920	* uncalibrated *

Calibration table contains at least one peak with amt = 0



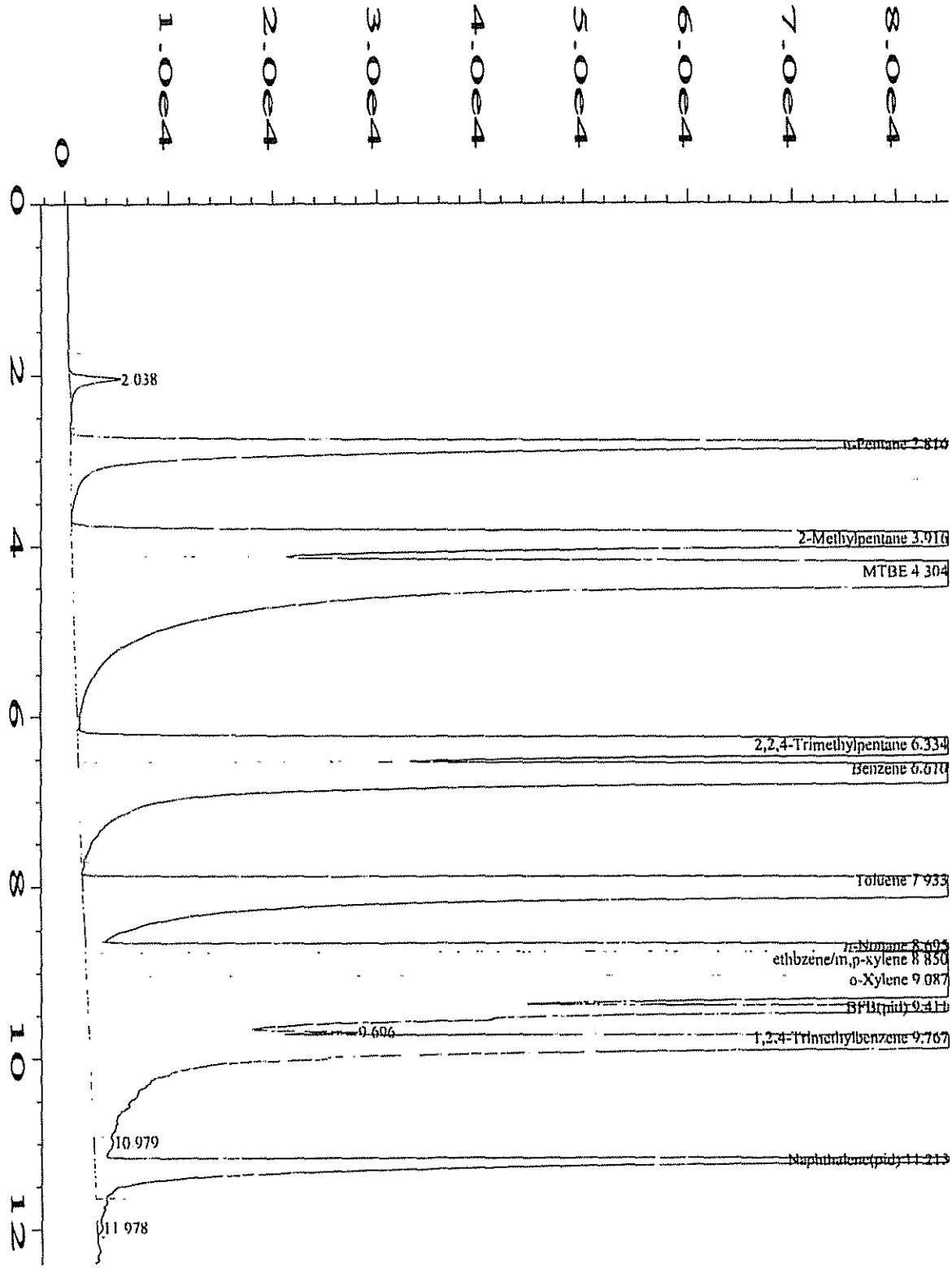
Data File Name	: C:\HPCHEM\1\DATA\vp060805\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: v500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:33 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: v500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:33 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\005R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.816	930374	BV	0.121	1	148.360	n-Pentane
3.916	2081555	PV	0.141	1	220.427	2-Methylpentane
4.304	9513961	VV	0.163	1	315.629	MTBE
6.334	3199867	VV	0.130	1	210.302	2,2,4-Trimethylpentane
6.610	8605731	VV	0.081	1	108.163	Benzene
7.933	1.31159E+007	PV	0.054	1	321.437	Toluene
8.695	1196395	VV	0.048	1	176.271	n-Nonane
8.850	1.73429E+007	VV	0.052	1	512.721	ethbzene/m,p-xylene
9.087	8269537	VV	0.051	1	213.499	o-Xylene
9.411	1340006	VV	0.057	1	90.189	BFB(pid)
9.767	5669530	VV	0.040	1	184.661	1,2,4-Trimethylbenzene
11.213	2571371	VV	0.032	1	146.911	Naphthalene(pid)
2.038	29718	BV	0.082		297.178	* uncalibrated *
9.696	72636	VV	0.040		726.357	* uncalibrated *
10.979	21490	VV	0.140		214.898	* uncalibrated *
11.978	4231	VV	0.109		42.310	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp060805\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: v500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on (	: 08 Jun 05 12:33 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

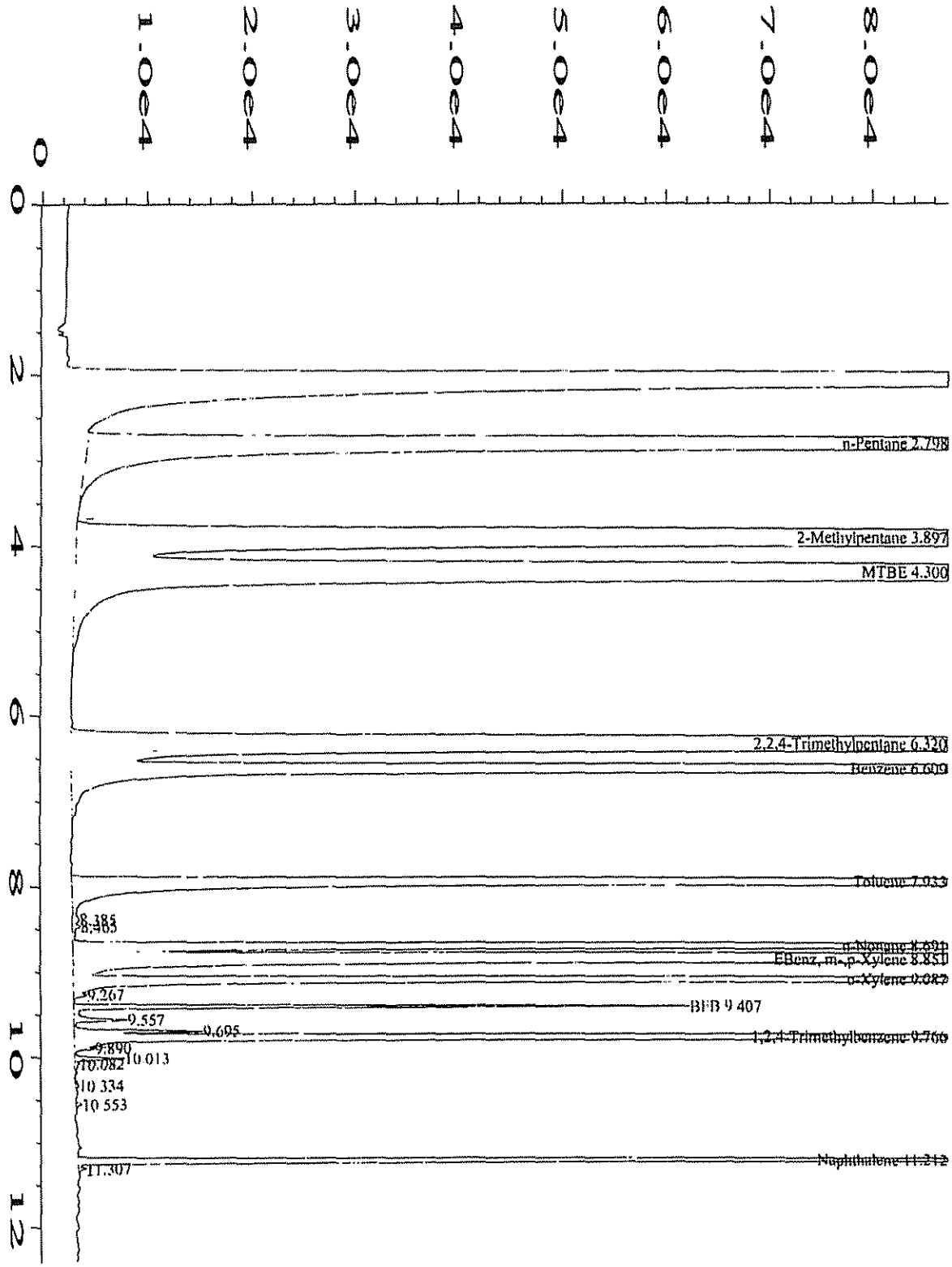
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: v750	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jun 05 12:58 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\006F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.798	3488197	BV	0.089	1	9292.997	n-Pentane
3.897	4166280	PV	0.119	1	6681.781	2-Methylpentane
4.300	3599822	VB	0.135	1	114474.0	MTBE
6.320	3533741	VV	0.103	1	9408.891	2,2,4-Trimethylpentane
6.609	2724053	VV	0.057	1	2754.229	Benzene
7.933	6542337	BV	0.037	1	8152.164	Toluene
8.691	2993128	VV	0.036	1	4859.081	n-Nonane
8.851	9884734	VV	0.036	1	13591.26	EBenz, m-,p-Xylene
9.087	3777352	VV	0.033	1	5211.481	o-Xylene
9.407	107414	VV	0.029	1	413.757	BFB
9.766	3133416	VV	0.030	1	4804.860	1,2,4-Trimethylbenzene
11.212	1303774	PV	0.026	1	-12690.68	Naphthalene
8.385	3529	VV	0.070		35.292	* uncalibrated *
8.465	2937	VV	0.054		29.370	* uncalibrated *
9.267	3431	VV	0.040		34.314	* uncalibrated *
9.557	12994	VV	0.038		129.941	* uncalibrated *
9.695	24771	VV	0.031		247.707	* uncalibrated *
9.890	4326	VV	0.038		43.258	* uncalibrated *
10.013	10009	VV	0.033		100.092	* uncalibrated *
10.082	1716	VV	0.059		17.162	* uncalibrated *
10.334	1048	PV	0.055		10.477	* uncalibrated *
10.553	1381	BV	0.036		13.807	* uncalibrated *
11.307	1539	VV	0.032		15.393	* uncalibrated *

Calibration table contains at least one peak with amt = 0



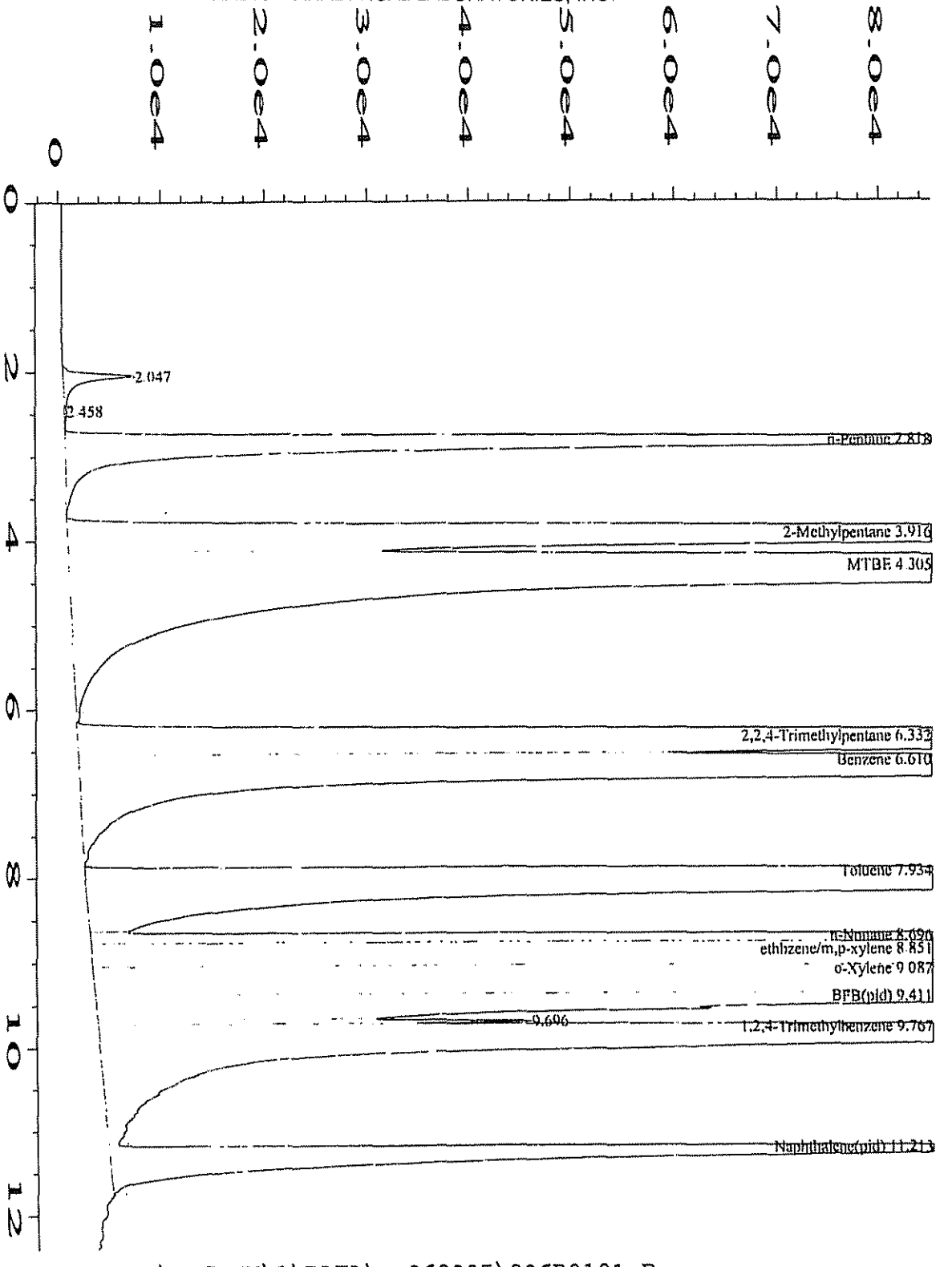
Data File Name	: C:\HPCHEM\1\DATA\vp060805\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: v750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on (	: 08 Jun 05 12:58 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: v750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:58 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\006R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.818	1272492	BV	0.125	1	202.915	n-Pentane
3.916	2959364	PV	0.147	1	313.383	2-Methylpentane
4.305	1.25309E+007	VV	0.170	1	415.717	MTBE
6.332	5034984	VV	0.131	1	330.909	2,2,4-Trimethylpentane
6.610	1.12779E+007	VV	0.082	1	141.749	Benzene
7.934	1.7557E+007	PV	0.055	1	430.277	Toluene
8.696	2166541	VV	0.048	1	319.207	n-Nonane
8.851	2.3003E+007	VV	0.052	1	680.056	ethbzene/m,p-xylene
9.087	1.17355E+007	VV	0.053	1	302.981	o-Xylene
9.411	1694934	VV	0.066	1	114.077	BFB(pid)
9.767	8711097	VV	0.043	1	283.728	1,2,4-Trimethylbenzene
11.213	4180764	VV	0.033	1	238.861	Naphthalene(pid)
2.047	44864	BV	0.084		448.643	* uncalibrated *
2.458	1967	VB	0.106		19.667	* uncalibrated *
9.696	121280	VV	0.041		1212.803	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp060805\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: v750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 12:58 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

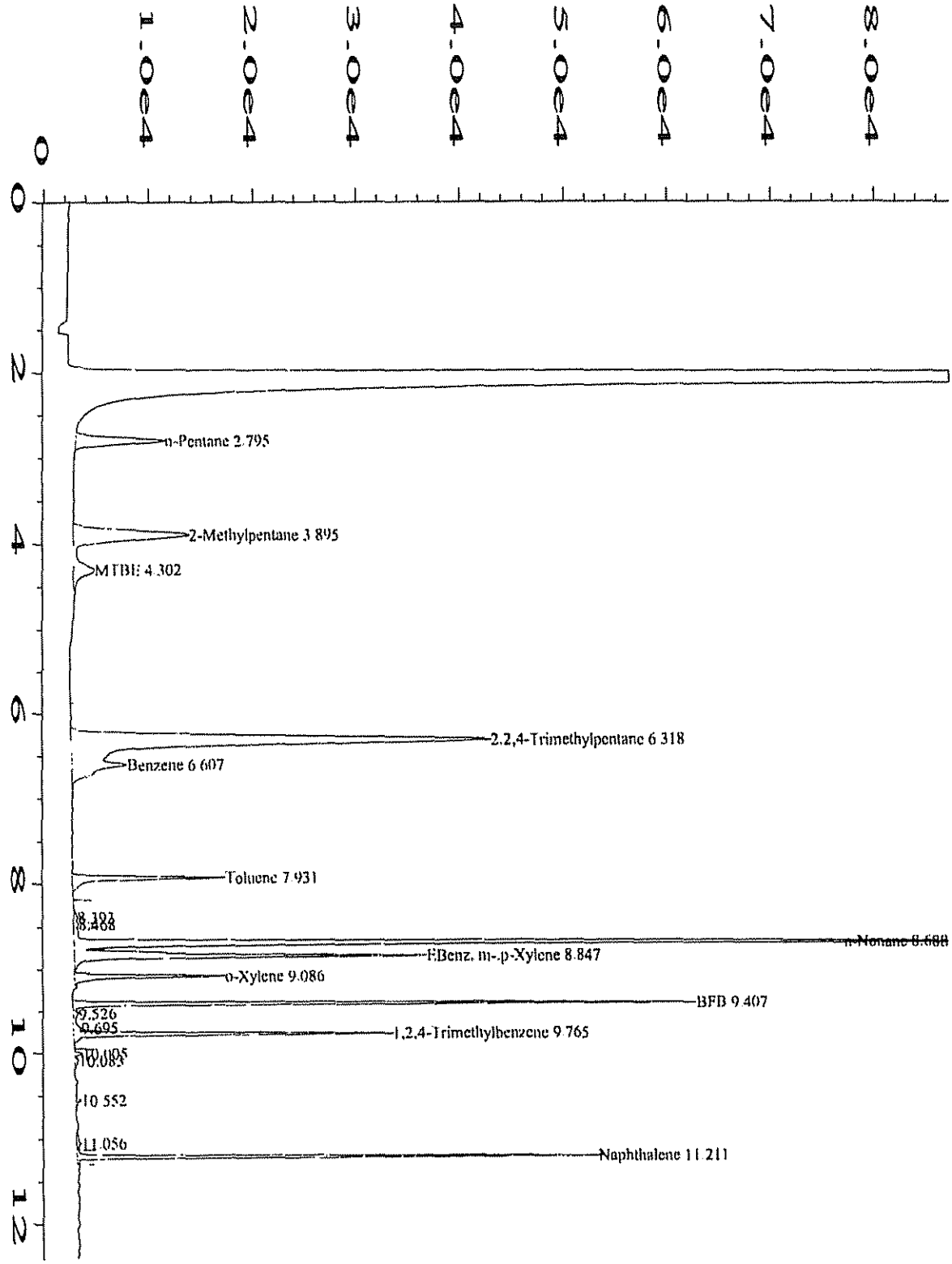
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\007F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 7
Sample Name	: b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 01:24 PM	Instrument Method	: GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\007F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.795	44605	BB	0.081	1	44.490	n-Pentane
3.895	84296	BV	0.114	1	14.972	2-Methylpentane
4.302	21200	VB	0.160	1	49.695	MTBE
6.318	295979	BV	0.111	1	56.850	2,2,4-Trimethylpentane
6.607	39739	VB	0.103	1	5.037	Benzene
7.931	40166	BB	0.042	1	4.264	Toluene
8.688	260986	VV	0.041	1	212.735	n-Nonane
8.847	96308	VV	0.042	1	9.415	EBenz, m-,p-Xylene
9.086	34210	VV	0.037	1	3.396	o-Xylene
9.407	108780	BV	0.029	1	419.019	BFB
9.765	64008	VB	0.032	1	6.812	1,2,4-Trimethylbenzene
11.211	85806	VV	0.027	1	979.604	Naphthalene
8.393	2012	BV	0.085		20.121	* uncalibrated *
8.468	2160	VV	0.064		21.597	* uncalibrated *
9.526	2747	VV	0.071		27.472	* uncalibrated *
9.695	3427	VV	0.078		34.268	* uncalibrated *
10.005	1591	BV	0.034		15.913	* uncalibrated *
10.083	1596	VB	0.070		15.964	* uncalibrated *
10.552	1472	BB	0.042		14.724	* uncalibrated *
11.056	2589	VV	0.075		25.887	* uncalibrated *

Calibration table contains at least one peak with amt = 0



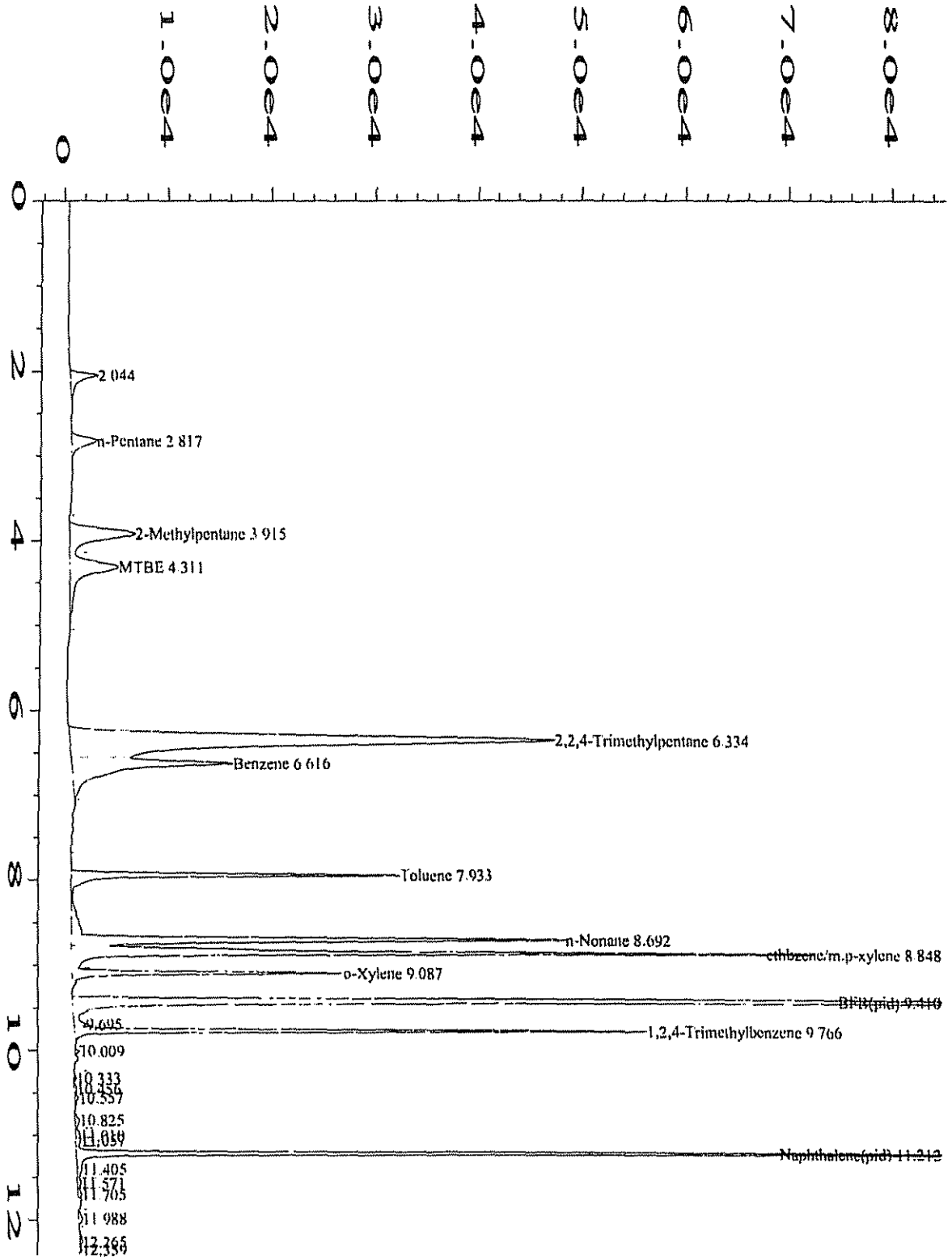
Data File Name	: C:\HPCHEM\1\DATA\vp060805\007F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 7
Sample Name	: b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 01:24 PM	Instrument Method	: GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\007R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 7
Sample Name	: b	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jun 05 01:24 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\007R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.817	18039	BV	0.107	1	2.877	n-Pentane
3.915	58152	BV	0.131	1	6.158	2-Methylpentane
4.311	55425	VB	0.173	1	1.839	MTBE
6.334	405888	BV	0.129	1	26.676	2,2,4-Trimethylpentane
6.616	116491	VV	0.103	1	1.464	Benzene
7.933	92257	BV	0.044	1	2.261	Toluene
8.692	169844	VV	0.053	1	25.024	n-Nonane
8.848	217216	VV	0.044	1	6.422	ethbzene/m,p-xylene
9.087	65151	VV	0.038	1	1.682	o-Xylene
9.410	573919	PV	0.034	1	38.627	BFB(pid)
9.766	117089	VB	0.067	1	3.814	1,2,4-Trimethylbenzene
11.212	214437	VV	0.067	1	12.252	Naphthalene(pid)
2.044	16583	BB	0.083		165.833	* uncalibrated *
9.695	5149	VV	0.076		51.486	* uncalibrated *
10.009	1034	BV	0.036		10.337	* uncalibrated *
10.333	889	PV	0.050		8.892	* uncalibrated *
10.456	1219	VV	0.067		12.186	* uncalibrated *
10.557	1415	VV	0.051		14.149	* uncalibrated *
10.825	2867	BV	0.094		28.673	* uncalibrated *
11.010	2031	VV	0.084		20.309	* uncalibrated *
11.057	2216	VV	0.065		22.163	* uncalibrated *
11.405	2525	VV	0.091		25.249	* uncalibrated *
11.571	2011	VV	0.089		20.108	* uncalibrated *
11.705	1819	VV	0.076		18.193	* uncalibrated *
11.988	2308	VV	0.101		23.082	* uncalibrated *
12.265	1452	PV	0.087		14.519	* uncalibrated *
12.359	424	VBA	0.040		4.236	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp060805\007R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 7
Sample Name	: b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun(05 01:24 PM	Instrument Method	: GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

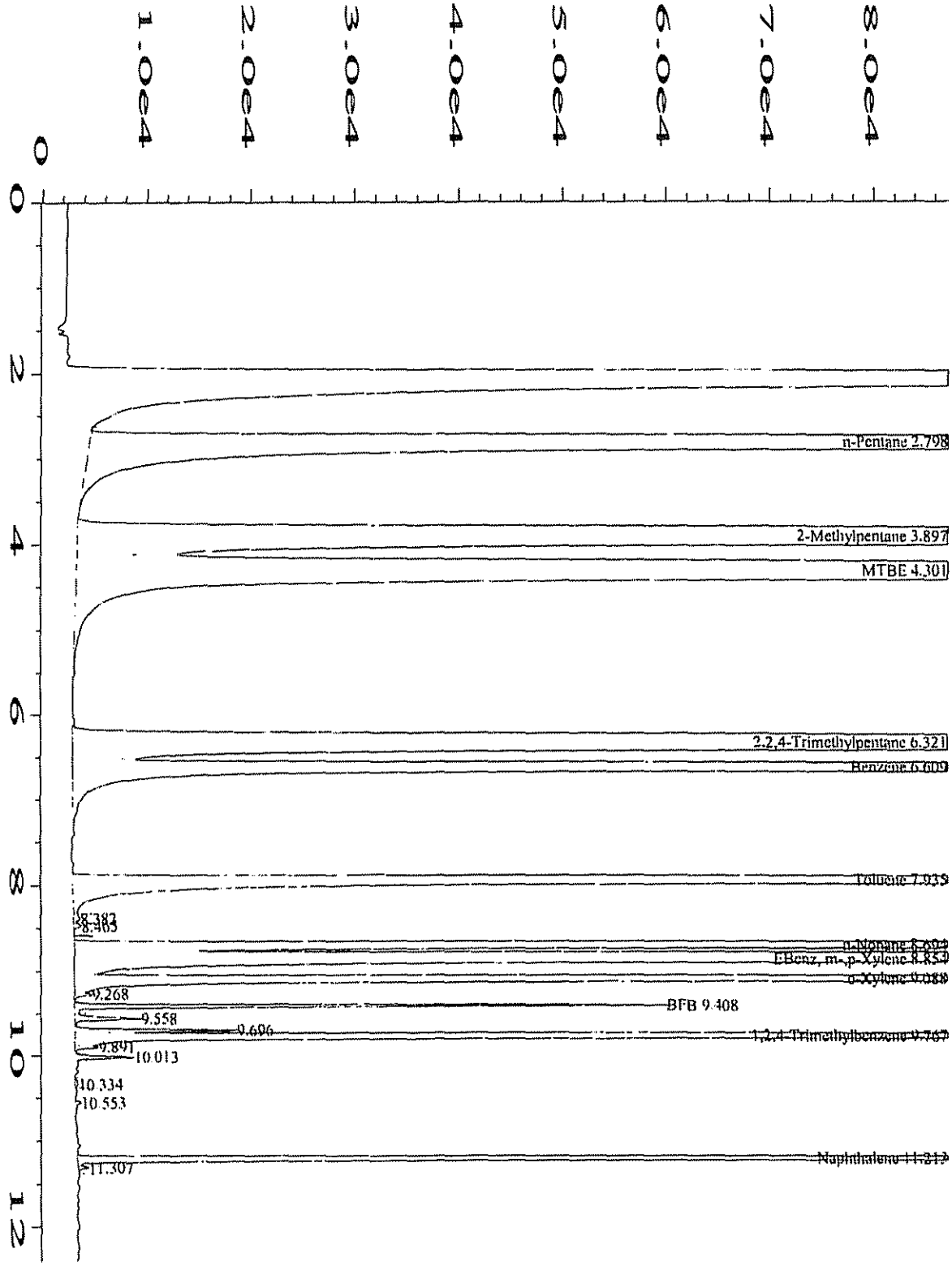
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\008F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: v1000	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 08 Jun 05 01:49 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp060805\008F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.798	4657465	BV	0.090	1	12661.23	n-Pentane
3.897	5853239	PV	0.119	1	9599.572	2-Methylpentane
4.301	4906973	VB	0.134	1	158988.5	MTBE
6.321	5054887	VV	0.103	1	13823.49	2,2,4-Trimethylpentane
6.609	3750614	VV	0.056	1	3847.985	Benzene
7.935	9120608	BV	0.036	1	11642.78	Toluene
8.694	4214966	BV	0.036	1	6936.967	n-Nonane
8.854	1.33087E+007	VV	0.035	1	18803.94	EBenz, m-,p-Xylene
9.088	5001963	VV	0.032	1	7088.238	o-Xylene
9.408	104661	VV	0.029	1	403.154	BFB
9.767	3991864	VV	0.030	1	6288.179	1,2,4-Trimethylbenzene
11.213	1728732	PV	0.026	1	-17460.35	Naphthalene
8.382	3056	VV	0.073		30.563	* uncalibrated *
8.465	2205	VB	0.046		22.050	* uncalibrated *
9.268	4591	VV	0.041		45.911	* uncalibrated *
9.558	15225	VV	0.036		152.253	* uncalibrated *
9.696	30036	VV	0.030		300.359	* uncalibrated *
9.891	5116	VV	0.037		51.163	* uncalibrated *
10.013	11583	VV	0.032		115.833	* uncalibrated *
10.334	1358	PV	0.062		13.578	* uncalibrated *
10.553	1731	VB	0.045		17.307	* uncalibrated *
11.307	2096	VV	0.031		20.962	* uncalibrated *

Calibration table contains at least one peak with amt = 0



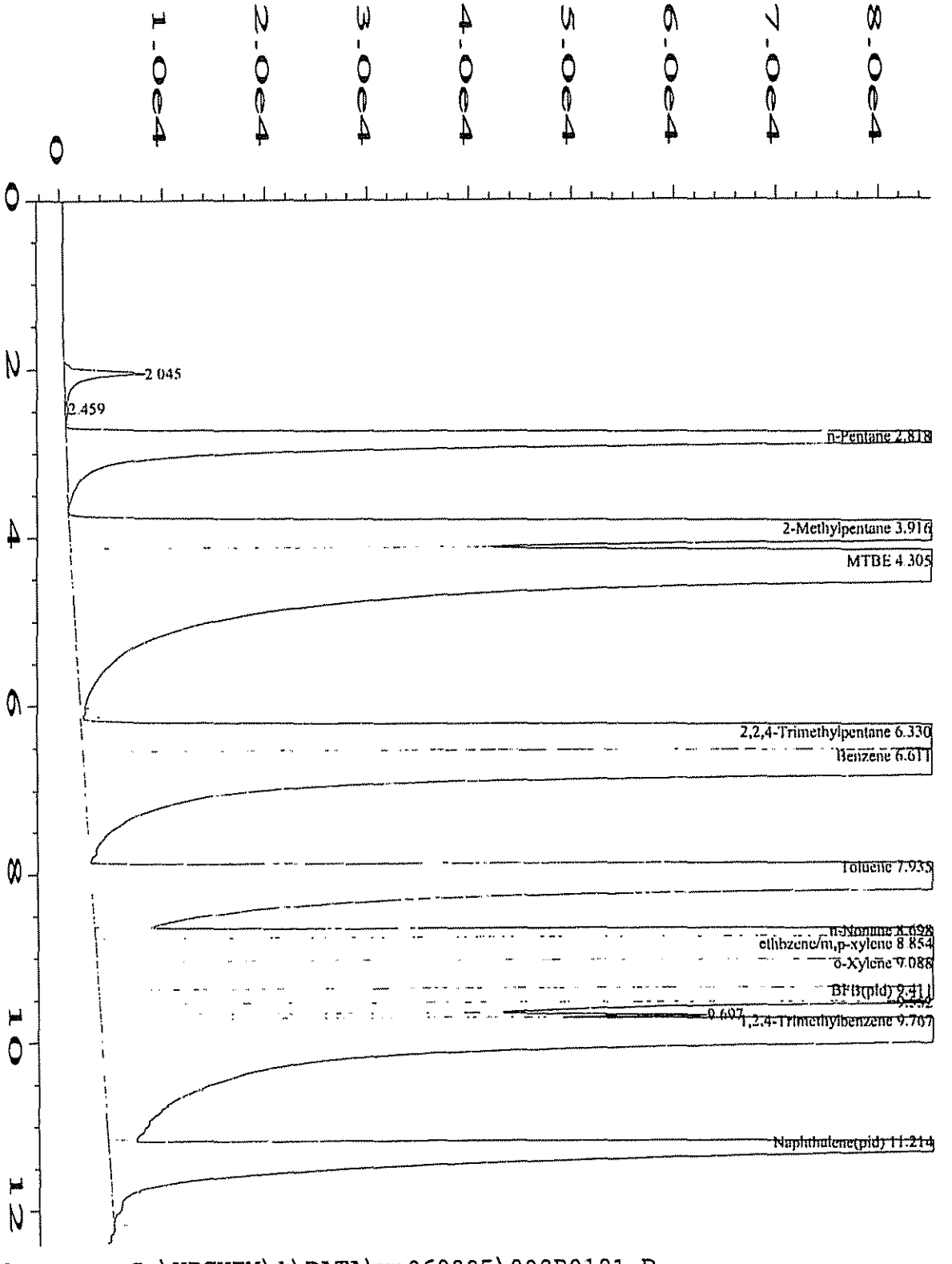
Data File Name	: C:\HPCHEM\1\DATA\vp060805\008F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: v1000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 01:49 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp060805\008R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: v1000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 01:49 PM	Instrument Method:	GAS1.MTH
Report Created on:	13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp060805\008R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.818	1652783	VV	0.127	1	263.558	n-Pentane
3.916	3980128	PV	0.148	1	421.477	2-Methylpentane
4.305	1.59259E+007	VV	0.172	1	528.349	MTBE
6.330	6718852	VV	0.132	1	441.576	2,2,4-Trimethylpentane
6.611	1.42877E+007	VV	0.081	1	179.578	Benzene
7.935	2.22094E+007	VV	0.055	1	544.296	Toluene
8.698	2857871	VV	0.047	1	421.064	n-Nonane
8.854	2.83024E+007	VV	0.053	1	836.727	ethbzene/m,p-xylene
9.088	1.46254E+007	VV	0.053	1	377.592	o-Xylene
9.411	1671554	VV	0.060	1	112.503	BFB(pid)
9.767	1.14065E+007	VV	0.045	1	371.519	1,2,4-Trimethylbenzene
11.214	5862705	VV	0.035	1	334.956	Naphthalene(pid)
2.045	50233	BV	0.085		502.334	* uncalibrated *
2.459	2741	VV	0.114		27.413	* uncalibrated *
9.552	425093	VV	0.087		4250.925	* uncalibrated *
9.697	166045	VV	0.040		1660.453	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp060805\008R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: v1000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jun 05 01:49 PM	Instrument Method	: GAS1.MTH
Report Created on	: 13 Jul 05 04:35 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/08/05 PID Initial Calibration Date: 06/08/05

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	3.6	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.988	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	12.9	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/08/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	16.0
C_9-C_{12} Aliphatics	500	50	-7.1
C_9-C_{10} Aromatics	500	50	-0.4

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

External Standard Report

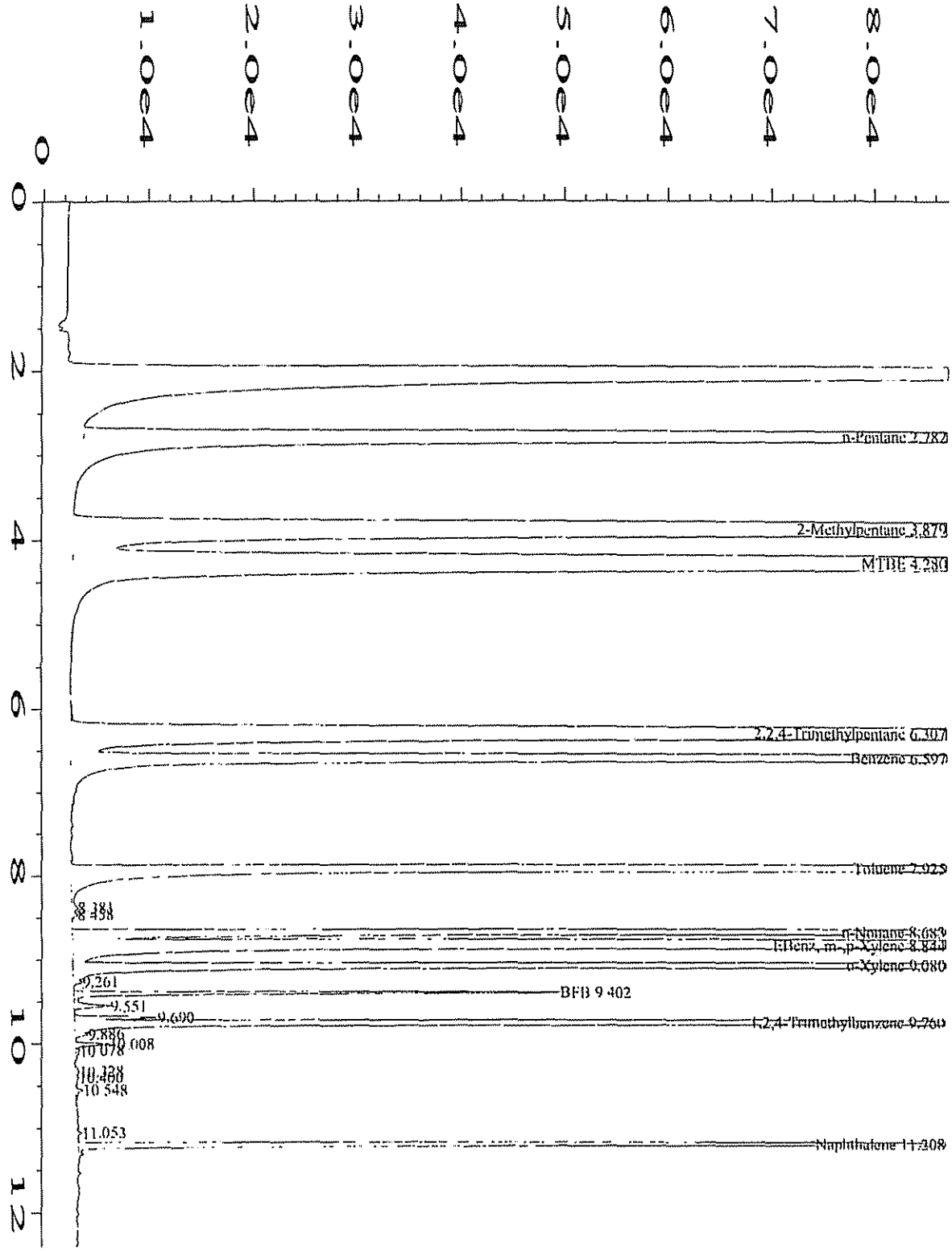
Data File Name : C:\HPCHEM\1\DATA\vp070805\004F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G500 V500 N 7/8
Run Time Bar Code:
Acquired on : 08 Jul 05 08:59 AM
Report Created on: 08 Jul 05 09:43 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

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 :

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\004F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.782	1847550	BV	0.089	1	4566.902	n-Pentane
3.879	2389237	PV	0.119	1	3608.179	2-Methylpentane
4.280	2203444	VB	0.135	1	66920.88	MTBE
6.307	2080162	BV	0.103	1	5190.380	2,2,4-Trimethylpentane
6.597	1660608	VB	0.057	1	1621.174	Benzene
7.925	4257250	VV	0.038	1	5058.476	Toluene
8.683	1637554	BV	0.035	1	2553.759	n-Nonane
8.844	6391336	VV	0.037	1	8272.869	EBenz, m-,p-Xylene
9.080	2500021	VV	0.033	1	3253.930	o-Xylene
9.402	85430	PV	0.029	1	329.076	BFB
9.760	2050386	VV	0.031	1	2933.483	1,2,4-Trimethylbenzene
11.208	811014	PV	0.026	1	-7160.023	Naphthalene
8.381	2628	VV	0.060		26.275	* uncalibrated *
8.458	1824	VB	0.050		18.244	* uncalibrated *
9.261	2228	VV	0.039		22.278	* uncalibrated *
9.551	9886	VV	0.042		98.857	* uncalibrated *
9.690	15961	VV	0.031		159.610	* uncalibrated *
9.886	2714	VV	0.037		27.144	* uncalibrated *
10.008	6903	VV	0.033		69.028	* uncalibrated *
10.078	1340	VV	0.056		13.395	* uncalibrated *
10.328	1783	BV	0.059		17.828	* uncalibrated *
10.400	1436	VV	0.062		14.363	* uncalibrated *
10.548	2635	VV	0.050		26.348	* uncalibrated *
11.053	1088	VV	0.040		10.876	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp070805\004F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: G500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 08:59 AM	Instrument Method	: GAS1.MTH
Report Created on	: 08 Jul 05 09:43 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

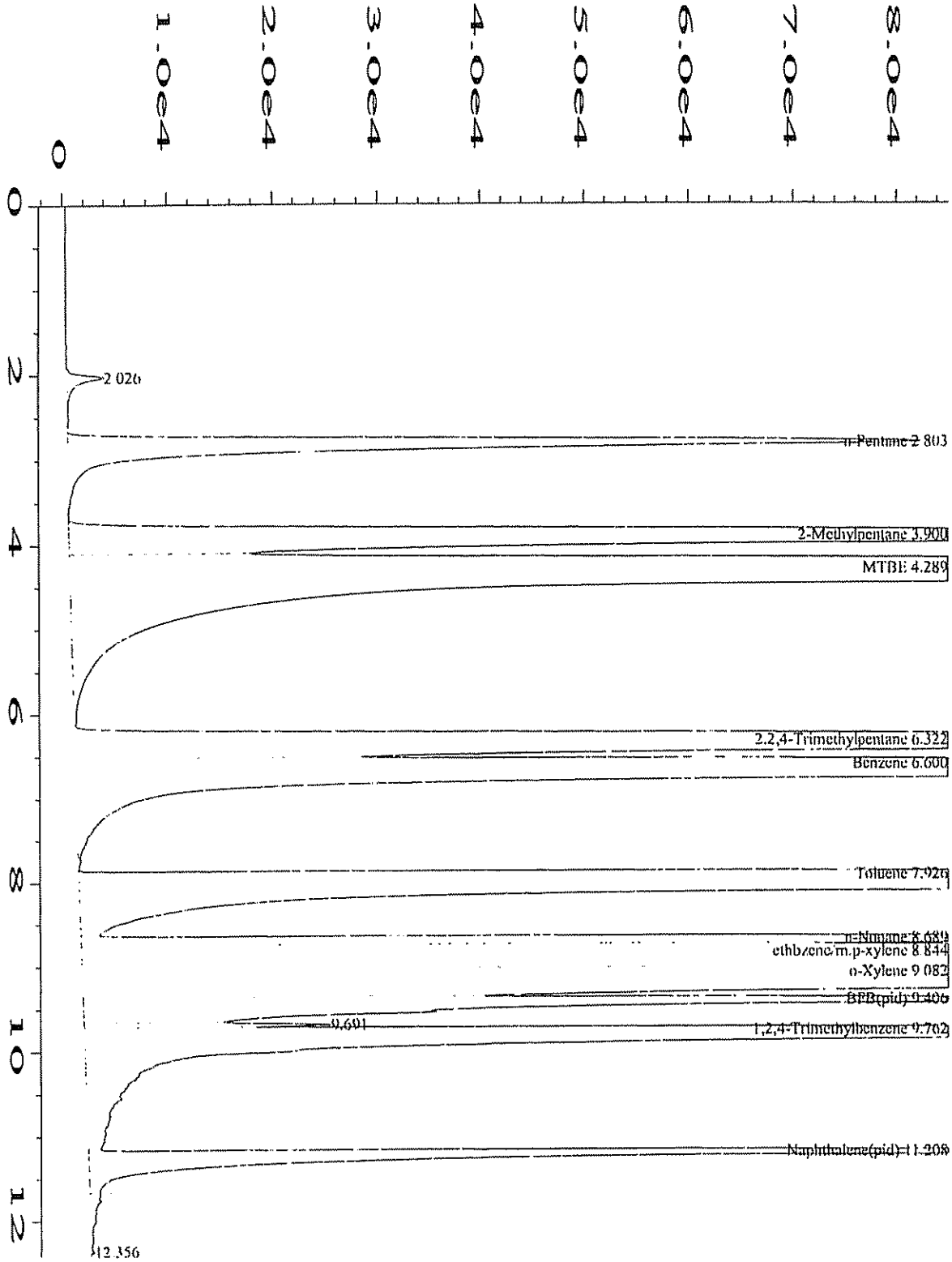
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\vp070805\004R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : ~~G500~~ V500
Run Time Bar Code:
Acquired on : 08 Jul 05 08:59 AM
Report Created on: 08 Jul 05 09:43 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 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 :

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\004R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.803	687328	BV	0.122	1	109.603	n-Pentane
3.900	1720012	PV	0.147	1	182.141	2-Methylpentane
4.289	8340649	VV	0.167	1	276.704	MTBE
6.322	3053362	VV	0.129	1	200.673	2,2,4-Trimethylpentane
6.600	7807576	VV	0.081	1	98.131	Benzene
7.926	1.25886E+007	PV	0.054	1	308.516	Toluene
8.689	1184545	VV	0.048	1	174.525	n-Nonane
8.844	1.67085E+007	VV	0.052	1	493.966	ethbzene/m,p-xylene
9.082	8001400	VV	0.051	1	206.576	o-Xylene
9.406	1101179	VV	0.096	1	74.114	BFB(pid)
9.762	5280451	VV	0.040	1	171.989	1,2,4-Trimethylbenzene
11.208	2371294	VV	0.056	1	135.480	Naphthalene(pid)
2.026	23265	BV	0.087		232.651	* uncalibrated *
9.691	62146	VV	0.044		621.456	* uncalibrated *
12.356	777	PBA	0.050		7.766	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp070805\004R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: G500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 08 Jul 05 08:59 AM	Instrument Method:	GAS1.MTH
eport Created on:	08 Jul 05 09:43 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

Data File Name : C:\HPCHEM\1\DATA\vp070805\021F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : lcs4070805b
Run Time Bar Code:
Acquired on : 08 Jul 05 04:26 PM 497
Report Created on: 11 Jul 05 07:15 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 21
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\vp070805\021F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.782	40817	BV	0.090	1	40.713	n-Pentane
3.875	55858	BV	0.121	1	9.921	2-Methylpentane
4.231	66536	VV	0.164	1	155.971	MTBE
6.306	55661	VV	0.113	1	10.691	2,2,4-Trimethylpentane
6.597	70473	VV	0.082	1	8.932	Benzene
7.924	230581	VV	0.039	1	24.476	Toluene
8.682	9984	VV	0.047	1	2.505	n-Nonane
8.841	221782	VV	0.040	1	21.680	EBenz, m-,p-Xylene
9.079	74443	VV	0.047	1	7.391	o-Xylene
9.402	79928	PV	0.029	1	307.880	BFB
9.760	90779	VV	0.045	1	9.662	1,2,4-Trimethylbenzene
11.209	6211	VV	0.040	1	1.465	Naphthalene
3.012	16828	PV	0.074		168.277	* uncalibrated *
3.210	32795	VV	0.112		327.955	* uncalibrated *
4.531	30930	VV	0.110		309.299	* uncalibrated *
4.853	23646	VV	0.176		236.458	* uncalibrated *
5.097	11862	VV	0.110		118.624	* uncalibrated *
5.222	12647	VV	0.112		126.469	* uncalibrated *
5.476	24054	VV	0.107		240.537	* uncalibrated *
5.791	1838	PV	0.091		18.381	* uncalibrated *
5.959	19386	VV	0.086		193.865	* uncalibrated *
6.084	47219	VV	0.139		472.190	* uncalibrated *
6.735	9792	VV	0.073		97.924	* uncalibrated *
6.824	8070	VV	0.066		80.696	* uncalibrated *
6.980	18492	VV	0.109		184.922	* uncalibrated *
7.117	12136	VV	0.072		121.358	* uncalibrated *
7.282	24284	VV	0.073		242.842	* uncalibrated *
7.389	38412	VV	0.076		384.121	* uncalibrated *
7.523	24828	VV	0.082		248.283	* uncalibrated *
7.794	15911	VV	0.066		159.108	* uncalibrated *
8.057	9732	VV	0.105		97.325	* uncalibrated *
8.378	12748	VV	0.067		127.481	* uncalibrated *
8.460	5878	VV	0.047		58.781	* uncalibrated *
9.202	1824	VV	0.039		18.237	* uncalibrated *
9.263	5321	VV	0.037		53.212	* uncalibrated *
9.527	107616	VV	0.053		1076.162	* uncalibrated *
9.690	18732	VV	0.034		187.316	* uncalibrated *
9.891	2789	VV	0.047		27.893	* uncalibrated *
10.009	18689	VV	0.032		186.893	* uncalibrated *
10.113	32681	VV	0.052		326.807	* uncalibrated *
10.182	12540	VV	0.042		125.402	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\021F0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 21
Sample Name	: lcs4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:26 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.273	13290	VV	0.044	132.898	* uncalibrated *
10.322	14296	VV	0.033	142.960	* uncalibrated *
10.398	3392	VV	0.036	33.922	* uncalibrated *
10.447	2750	VV	0.034	27.504	* uncalibrated *
10.517	8691	VV	0.036	86.913	* uncalibrated *
10.559	15167	VV	0.057	151.669	* uncalibrated *
10.644	2530	VV	0.038	25.304	* uncalibrated *
10.704	2113	VV	0.043	21.133	* uncalibrated *
10.762	7132	VV	0.038	71.320	* uncalibrated *
10.798	4642	VV	0.038	46.417	* uncalibrated *
10.854	7138	VV	0.039	71.380	* uncalibrated *
10.973	7044	VV	0.063	70.443	* uncalibrated *
11.053	5314	VV	0.085	53.137	* uncalibrated *
11.351	2016	VV	0.038	20.165	* uncalibrated *
11.482	2925	VV	0.061	29.246	* uncalibrated *
11.762	3338	VV	0.035	33.378	* uncalibrated *
11.908	1034	VV	0.032	10.341	* uncalibrated *

Calibration table contains at least one peak with amt = 0

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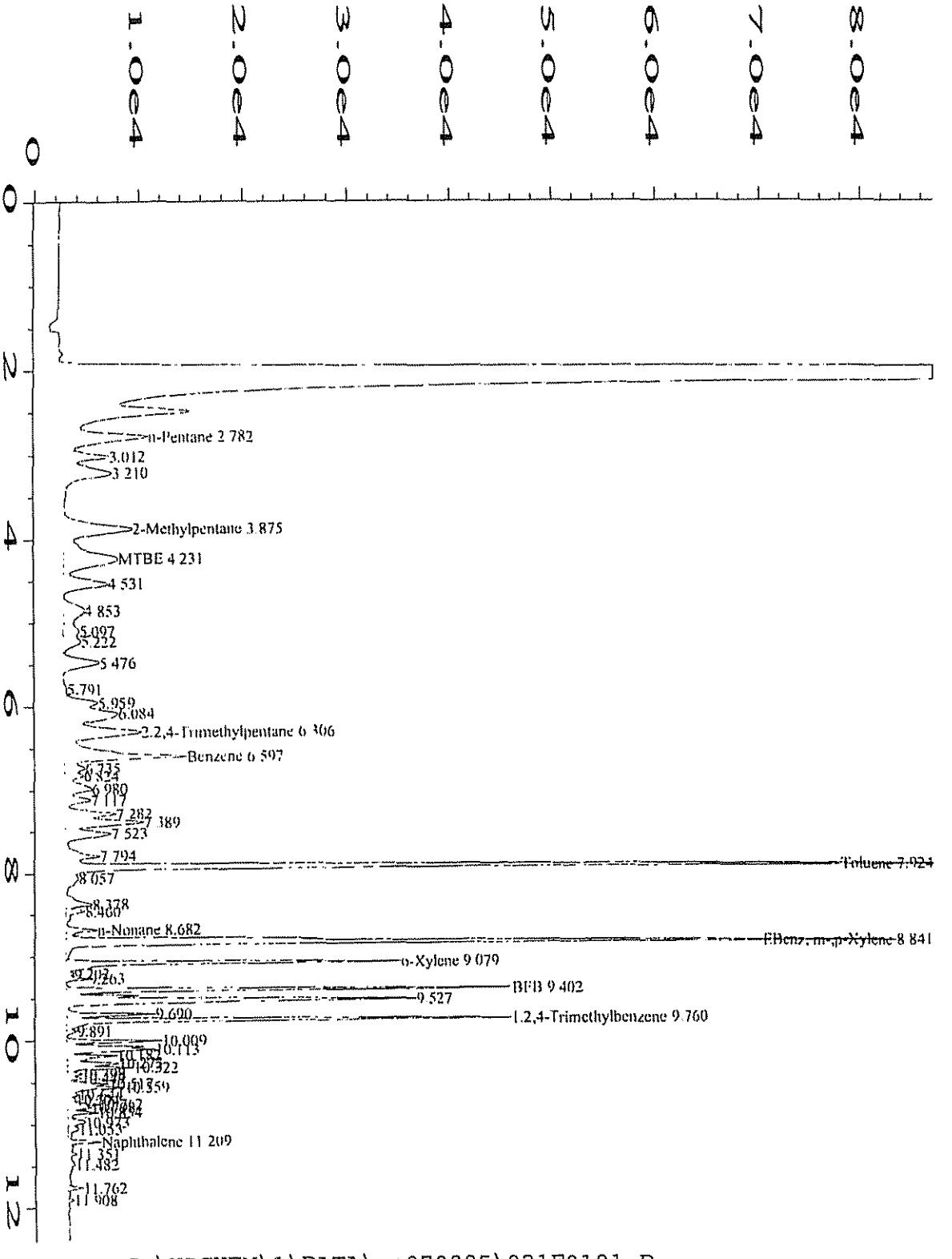

Data File Name	: C:\HPCHEM\1\DATA\vp070805\021F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 21
Sample Name	: lcs4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:26 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 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\vp070805\021R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 21
Sample Name	: lcs4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:26 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\021R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.836	46179	VV	0.127	1	7.364	n-Pentane
3.888	43687	VV	0.147	1	4.626	2-Methylpentane
4.287	97968	VV	0.151	1	3.250	MTBE
6.316	66743	VV	0.126	1	4.386	2,2,4-Trimethylpentane
6.607	232174	VV	0.078	1	2.918	Benzene
7.927	593629	VV	0.044	1	14.548	Toluene
8.684	6977	VV	0.058	1	1.028	n-Nonane
8.842	475024	VV	0.042	1	14.044	ethbzene/m,p-xylene
9.080	133107	VV	0.036	1	3.436	o-Xylene
9.405	370998	VV	0.033	1	24.970	BFB(pid)
9.760	165860	VV	0.065	1	5.402	1,2,4-Trimethylbenzene
11.209	16020	VV	0.044	1	0.915	Naphthalene(pid)
2.043	37797	BV	0.084		377.974	* uncalibrated *
2.165	16733	VV	0.077		167.329	* uncalibrated *
2.513	40445	VV	0.142		404.447	* uncalibrated *
3.018	48355	VV	0.087		483.554	* uncalibrated *
3.214	82584	VV	0.142		825.841	* uncalibrated *
4.073	16413	VV	0.098		164.126	* uncalibrated *
4.514	31374	VV	0.136		313.735	* uncalibrated *
4.850	42079	VV	0.182		420.787	* uncalibrated *
5.091	11448	VV	0.094		114.479	* uncalibrated *
5.227	20796	VV	0.121		207.958	* uncalibrated *
5.488	13282	VV	0.114		132.819	* uncalibrated *
5.790	2137	PV	0.089		21.373	* uncalibrated *
6.082	57722	VV	0.135		577.222	* uncalibrated *
6.824	12392	VV	0.066		123.923	* uncalibrated *
6.991	16830	VV	0.099		168.298	* uncalibrated *
7.123	16109	VV	0.075		161.095	* uncalibrated *
7.289	27481	VV	0.071		274.814	* uncalibrated *
7.391	47468	VV	0.084		474.677	* uncalibrated *
7.530	26430	VV	0.095		264.297	* uncalibrated *
7.793	15999	VV	0.086		159.989	* uncalibrated *
8.370	13163	VV	0.089		131.634	* uncalibrated *
8.462	7986	VV	0.068		79.860	* uncalibrated *
9.202	1588	VV	0.035		15.877	* uncalibrated *
9.264	8631	VV	0.040		86.313	* uncalibrated *
9.474	22327	VV	0.028		223.272	* uncalibrated *
9.529	185517	VV	0.052		1855.173	* uncalibrated *
9.691	29257	VV	0.035		292.570	* uncalibrated *
9.891	5212	VV	0.054		52.115	* uncalibrated *
10.010	29741	VV	0.033		297.414	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\021R0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 21
Sample Name	: lcs4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:26 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.113	54449	VV	0.051	544.495	* uncalibrated *
10.182	20646	VV	0.044	206.455	* uncalibrated *
10.274	20515	VV	0.048	205.149	* uncalibrated *
10.323	20861	VV	0.037	208.605	* uncalibrated *
10.399	4602	VV	0.041	46.016	* uncalibrated *
10.447	4227	VV	0.035	42.271	* uncalibrated *
10.518	14139	VV	0.035	141.389	* uncalibrated *
10.560	25787	VV	0.057	257.872	* uncalibrated *
10.645	3621	VV	0.038	36.212	* uncalibrated *
10.704	2932	VV	0.043	29.317	* uncalibrated *
10.762	11202	VV	0.039	112.016	* uncalibrated *
10.797	7049	VV	0.033	70.492	* uncalibrated *
10.854	10442	VV	0.040	104.424	* uncalibrated *
10.974	10620	VV	0.064	106.197	* uncalibrated *
11.065	6780	VV	0.090	67.799	* uncalibrated *
11.352	3156	VV	0.050	31.564	* uncalibrated *
11.482	7055	VV	0.088	70.555	* uncalibrated *
11.762	7706	VV	0.038	77.055	* uncalibrated *
11.908	3558	VV	0.065	35.576	* uncalibrated *

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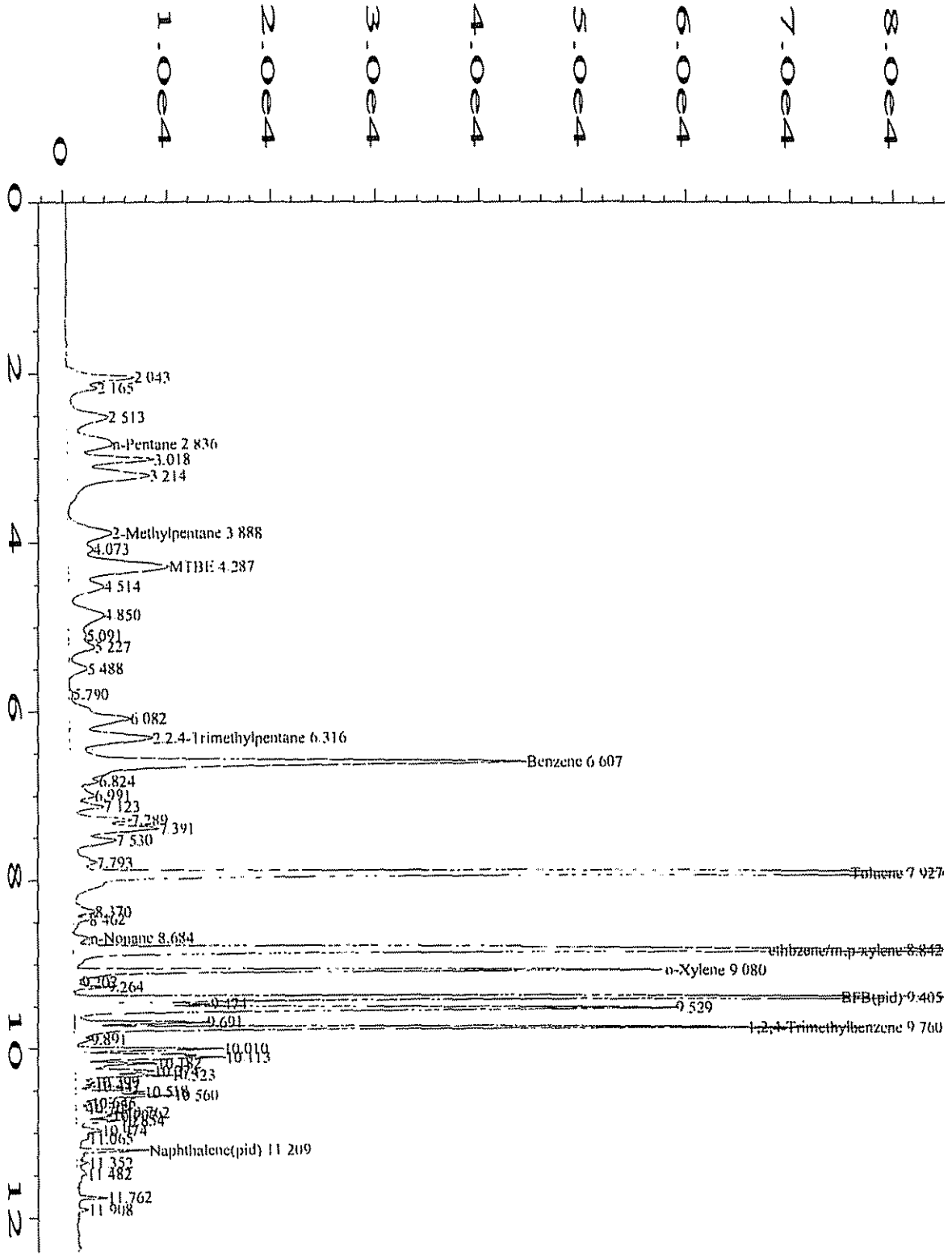


Data File Name	: C:\HPCHEM\1\DATA\vp070805\021R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 21
Sample Name	: lcs4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:26 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 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

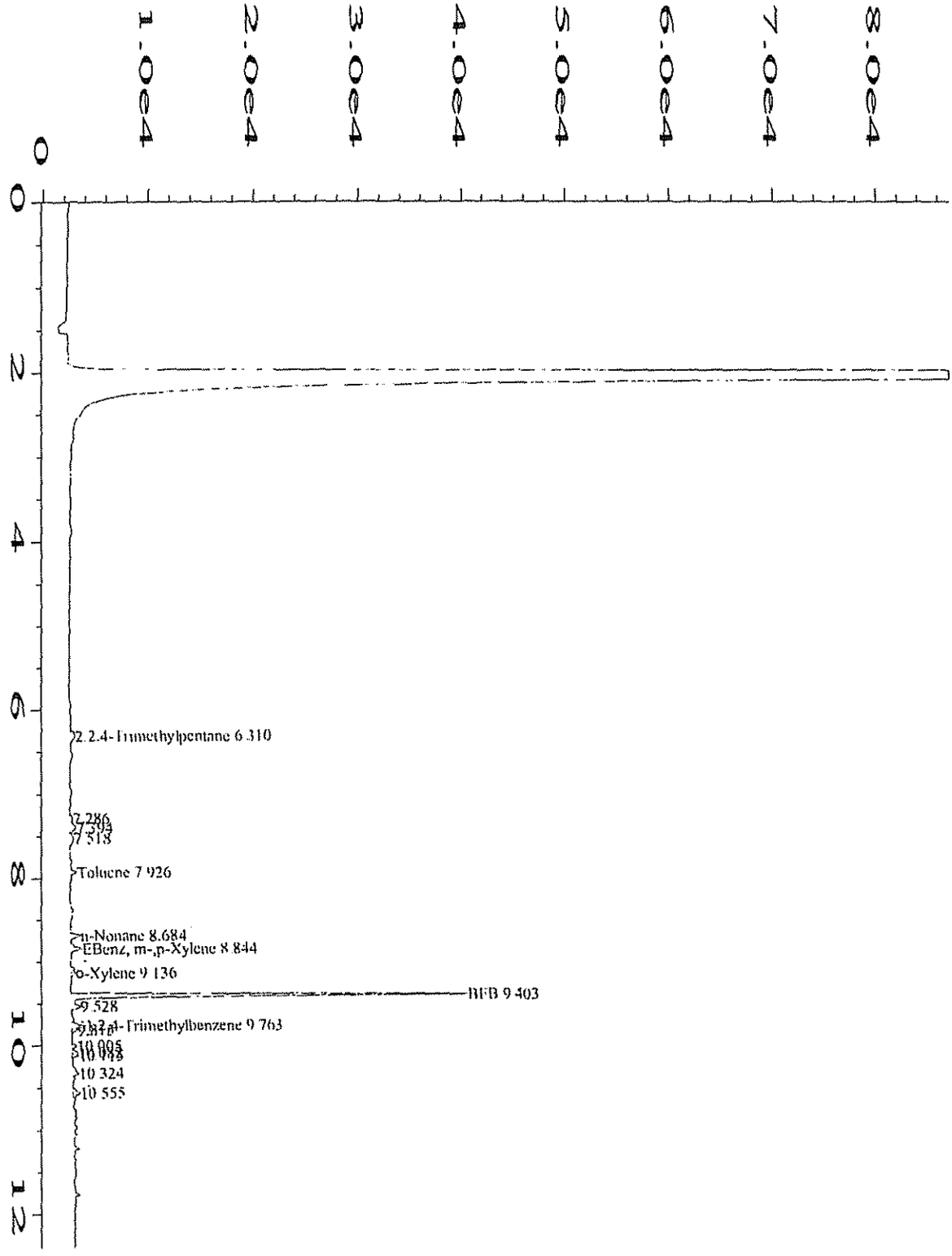
Data File Name	: C:\HPCHEM\1\DATA\vp070805\022F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 22
Sample Name	: vblk4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:51 PM	Instrument Method	: GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\022F0101.D

Ret 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	3053	PB	0.090	1	0.586	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	1728	BB	0.044	1	0.183	Toluene
8.684	2949	BV	0.044	1	0.740	n-Nonane
8.844	3541	VB	0.047	1	0.346	EBenz, m-,p-Xylene
9.136	1109	VV	0.043	1	0.110	o-Xylene
9.403	69701	BV	0.028	1	268.486	BFB
9.763	3237	VV	0.038	1	0.345	1,2,4-Trimethylbenzene
11.210	* not found *			1		Naphthalene
7.286	1200	BV	0.063		12.002	* uncalibrated *
7.394	2904	VV	0.074		29.042	* uncalibrated *
7.518	2654	VB	0.089		26.543	* uncalibrated *
9.528	3072	VV	0.050		30.724	* uncalibrated *
9.815	1255	VV	0.039		12.552	* uncalibrated *
10.005	1066	BV	0.035		10.659	* uncalibrated *
10.082	1029	VV	0.032		10.291	* uncalibrated *
10.115	1352	VV	0.034		13.521	* uncalibrated *
10.324	1569	VV	0.039		15.694	* uncalibrated *
10.555	2662	VV	0.053		26.620	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp070805\022F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 22
Sample Name	: vblk4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:51 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

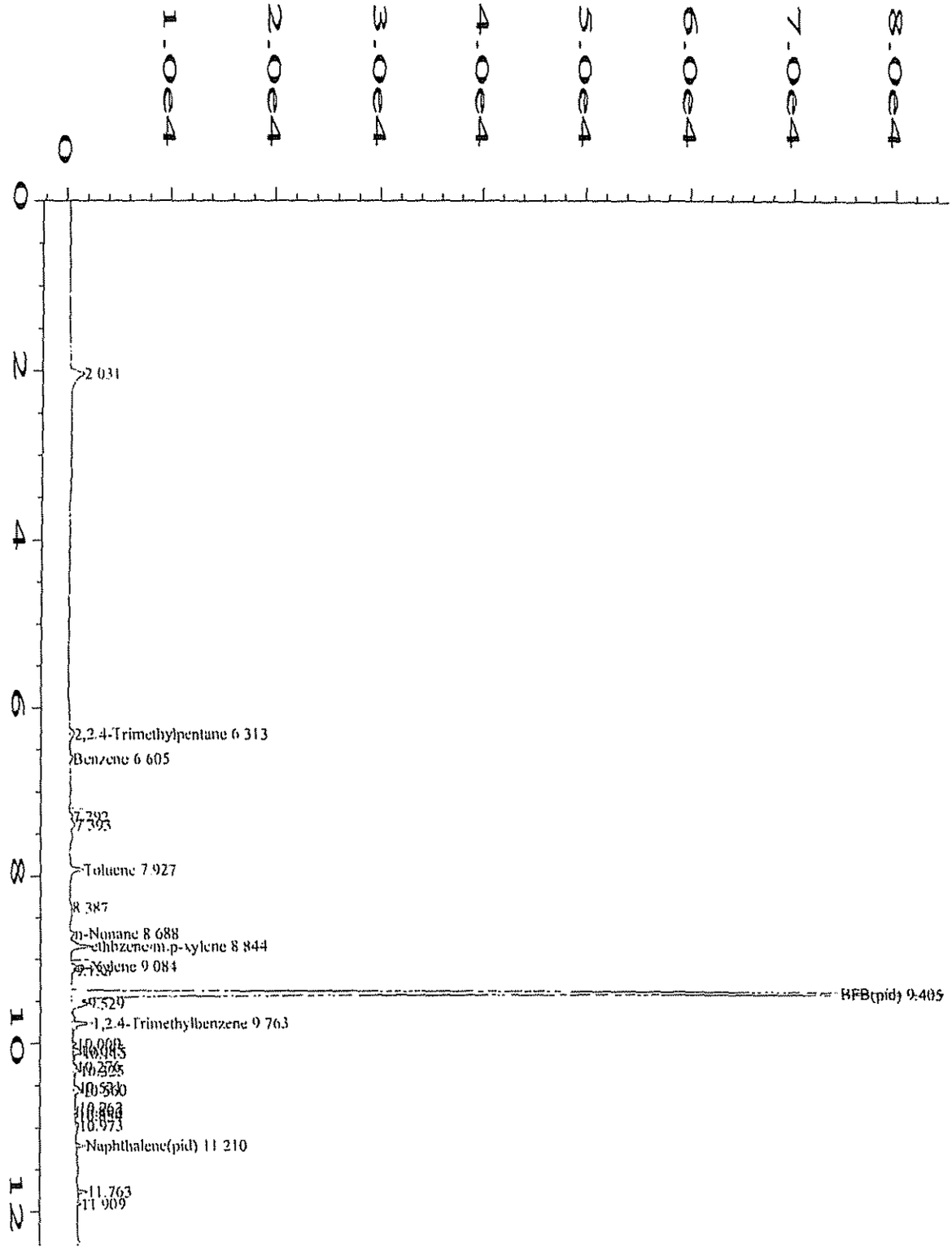
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\022R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 22
Sample Name	: vblk4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:51 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\022R0101.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
6.313	3053	BV	0.095	1	0.201	2,2,4-Trimethylpentane
6.605	1480	VB	0.074	1	0.0186	Benzene
7.927	4680	VV	0.053	1	0.115	Toluene
8.688	1437	BV	0.049	1	0.212	n-Nonane
8.844	6345	VB	0.045	1	0.188	ethbzene/m,p-xylene
9.084	1445	BV	0.036	1	0.0373	o-Xylene
9.405	313374	BV	0.032	1	21.092	BFB(pid)
9.763	5745	VV	0.042	1	0.187	1,2,4-Trimethylbenzene
11.210	1480	BV	0.027	1	0.0846	Naphthalene(pid)
2.031	8530	BB	0.090		85.304	* uncalibrated *
7.292	959	BV	0.061		9.594	* uncalibrated *
7.393	1812	VV	0.070		18.117	* uncalibrated *
8.387	534	BV	0.050		5.343	* uncalibrated *
9.133	878	VV	0.040		8.776	* uncalibrated *
9.529	6027	VV	0.055		60.275	* uncalibrated *
10.009	916	PV	0.034		9.164	* uncalibrated *
10.085	1271	VV	0.027		12.705	* uncalibrated *
10.115	2050	VV	0.034		20.498	* uncalibrated *
10.276	944	VV	0.038		9.437	* uncalibrated *
10.325	1599	VV	0.036		15.994	* uncalibrated *
10.521	852	PV	0.031		8.515	* uncalibrated *
10.560	2606	VV	0.043		26.059	* uncalibrated *
10.763	771	VV	0.030		7.707	* uncalibrated *
10.806	854	VV	0.034		8.539	* uncalibrated *
10.854	758	VV	0.033		7.582	* uncalibrated *
10.973	870	PV	0.053		8.697	* uncalibrated *
11.763	1821	BB	0.030		18.214	* uncalibrated *
11.909	652	BV	0.029		6.516	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp070805\022R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 22
Sample Name	: vblk4070805b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 04:51 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 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

Data File Name : C:\HPCHEM\1\DATA\vp070805\023F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G161-2059-2B x1 MS
Run Time Bar Code: 138441
Acquired on : 08 Jul 05 05:17 PM
Report Created on: 11 Jul 05 07:15 AM 436
Last Recalib on : 24 AUG 04 09:09 AM 463
Multiplier : 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 :

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\023F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.772	21291	BV	0.083	1	21.236	n-Pentane
3.875	37283	VV	0.116	1	6.622	2-Methylpentane
4.231	48754	VV	0.189	1	114.288	MTBE
6.308	46698	VV	0.112	1	8.970	2,2,4-Trimethylpentane
6.597	58352	VV	0.083	1	7.395	Benzene
7.924	200075	VV	0.040	1	21.238	Toluene
8.682	8969	VV	0.047	1	2.250	n-Nonane
8.841	200072	VV	0.040	1	19.558	EBenz, m-,p-Xylene
9.080	68967	VV	0.047	1	6.847	o-Xylene
9.403	77655	PV	0.029	1	299.124	BFB
9.760	89215	VV	0.045	1	9.495	1,2,4-Trimethylbenzene
11.209	6054	VV	0.040	1	1.428	Naphthalene
3.006	9945	PV	0.067		99.449	* uncalibrated *
3.205	9718	PV	0.067		97.180	* uncalibrated *
4.532	24067	VV	0.108		240.668	* uncalibrated *
4.850	18135	PV	0.167		181.352	* uncalibrated *
5.098	10045	VV	0.114		100.455	* uncalibrated *
5.221	9181	VV	0.108		91.808	* uncalibrated *
5.477	18309	VV	0.105		183.091	* uncalibrated *
5.960	16313	VV	0.086		163.129	* uncalibrated *
6.086	39780	VV	0.122		397.805	* uncalibrated *
6.735	8100	VV	0.073		81.000	* uncalibrated *
6.824	6727	VV	0.065		67.269	* uncalibrated *
6.981	15656	VV	0.107		156.558	* uncalibrated *
7.117	10588	VV	0.072		105.876	* uncalibrated *
7.282	20665	VV	0.072		206.648	* uncalibrated *
7.389	33005	VV	0.076		330.051	* uncalibrated *
7.524	21038	VV	0.090		210.377	* uncalibrated *
7.794	13631	VV	0.065		136.309	* uncalibrated *
8.056	8394	VV	0.103		83.937	* uncalibrated *
8.379	11471	VV	0.065		114.709	* uncalibrated *
8.460	5354	VV	0.046		53.539	* uncalibrated *
9.203	1909	VV	0.036		19.089	* uncalibrated *
9.264	4975	VV	0.038		49.746	* uncalibrated *
9.527	103021	VV	0.053		1030.207	* uncalibrated *
9.691	18340	VV	0.034		183.398	* uncalibrated *
9.891	3181	VV	0.050		31.805	* uncalibrated *
10.009	18952	VV	0.032		189.523	* uncalibrated *
10.113	32206	VV	0.052		322.056	* uncalibrated *
10.182	12500	VV	0.042		124.999	* uncalibrated *
10.273	13721	VV	0.046		137.212	* uncalibrated *
10.323	13674	VV	0.032		136.739	* uncalibrated *
10.398	3521	VV	0.036		35.211	* uncalibrated *

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp070805\023F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\023F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.772	21291	BV	0.083	1	21.236	n-Pentane
3.875	37283	VV	0.116	1	6.622	2-Methylpentane
4.231	48754	VV	0.189	1	114.288	MTBE
6.308	46698	VV	0.112	1	8.970	2,2,4-Trimethylpentane
6.597	58352	VV	0.083	1	7.395	Benzene
7.924	200075	VV	0.040	1	21.238	Toluene
8.682	8969	VV	0.047	1	2.250	n-Nonane
8.841	200072	VV	0.040	1	19.558	EBenz, m-,p-Xylene
9.080	68967	VV	0.047	1	6.847	o-Xylene
9.403	77655	PV	0.029	1	299.124	BFB
9.760	89215	VV	0.045	1	9.495	1,2,4-Trimethylbenzene
11.209	6054	VV	0.040	1	1.428	Naphthalene
3.006	9945	PV	0.067		99.449	* uncalibrated *
3.205	9718	PV	0.067		97.180	* uncalibrated *
4.532	24067	VV	0.108		240.668	* uncalibrated *
4.850	18135	PV	0.167		181.352	* uncalibrated *
5.098	10045	VV	0.114		100.455	* uncalibrated *
5.221	9181	VV	0.108		91.808	* uncalibrated *
5.477	18309	VV	0.105		183.091	* uncalibrated *
5.960	16313	VV	0.086		163.129	* uncalibrated *
6.086	39780	VV	0.122		397.805	* uncalibrated *
6.735	8100	VV	0.073		81.000	* uncalibrated *
6.824	6727	VV	0.065		67.269	* uncalibrated *
6.981	15656	VV	0.107		156.558	* uncalibrated *
7.117	10588	VV	0.072		105.876	* uncalibrated *
7.282	20665	VV	0.072		206.648	* uncalibrated *
7.389	33005	VV	0.076		330.051	* uncalibrated *
7.524	21038	VV	0.090		210.377	* uncalibrated *
7.794	13631	VV	0.065		136.309	* uncalibrated *
8.056	8394	VV	0.103		83.937	* uncalibrated *
8.379	11471	VV	0.065		114.709	* uncalibrated *
8.460	5354	VV	0.046		53.539	* uncalibrated *
9.203	1909	VV	0.036		19.089	* uncalibrated *
9.264	4975	VV	0.038		49.746	* uncalibrated *
9.527	103021	VV	0.053		1030.207	* uncalibrated *
9.691	18340	VV	0.034		183.398	* uncalibrated *
9.891	3181	VV	0.050		31.805	* uncalibrated *
10.009	18952	VV	0.032		189.523	* uncalibrated *
10.113	32206	VV	0.052		322.056	* uncalibrated *
10.182	12500	VV	0.042		124.999	* uncalibrated *
10.273	13721	VV	0.046		137.212	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\023F0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.323	13674	VV	0.032	136.739	* uncalibrated *
10.398	3521	VV	0.036	35.211	* uncalibrated *
10.447	2742	VV	0.034	27.418	* uncalibrated *
10.517	8520	VV	0.036	85.199	* uncalibrated *
10.559	15191	VV	0.058	151.906	* uncalibrated *
10.644	2591	VV	0.039	25.914	* uncalibrated *
10.703	2354	VV	0.049	23.540	* uncalibrated *
10.762	6695	VV	0.037	66.951	* uncalibrated *
10.799	4576	VV	0.033	45.755	* uncalibrated *
10.854	7298	VV	0.045	72.984	* uncalibrated *
10.973	6676	VV	0.063	66.764	* uncalibrated *
11.054	5416	VV	0.083	54.159	* uncalibrated *
11.352	1986	VV	0.049	19.860	* uncalibrated *
11.483	2818	VV	0.061	28.179	* uncalibrated *
11.763	3787	VV	0.044	37.871	* uncalibrated *

Calibration table contains at least one peak with amt = 0

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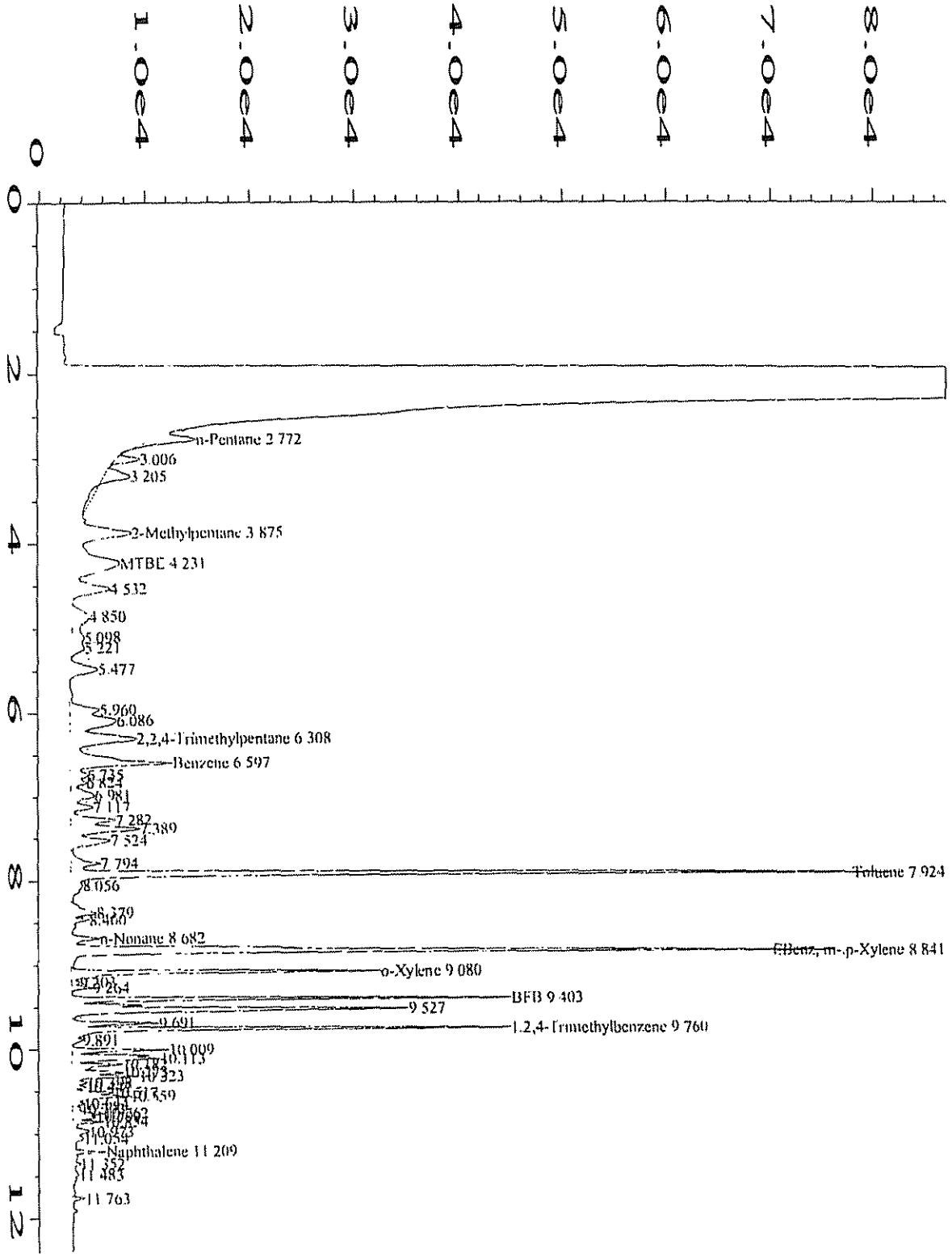

Data File Name	: C:\HPCHEM\1\DATA\vp070805\023F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 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\vp070805\023R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\023R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.837	38655	VV	0.148	1	6.164	n-Pentane
3.886	37449	VV	0.155	1	3.966	2-Methylpentane
4.291	86929	VV	0.153	1	2.884	MTBE
6.318	57282	VV	0.127	1	3.765	2,2,4-Trimethylpentane
6.607	193227	VV	0.078	1	2.429	Benzene
7.927	502897	VV	0.044	1	12.325	Toluene
8.685	5622	VV	0.055	1	0.828	n-Nonane
8.843	423117	VV	0.041	1	12.509	ethbzene/m,p-xylene
9.081	121138	VV	0.037	1	3.127	o-Xylene
9.405	356342	VV	0.033	1	23.983	BFB(pid)
9.761	160887	VV	0.065	1	5.240	1,2,4-Trimethylbenzene
11.209	12744	VV	0.040	1	0.728	Naphthalene(pid)
2.114	181612	BV	0.104		1816.116	* uncalibrated *
2.506	33752	VV	0.147		337.517	* uncalibrated *
3.017	40618	VV	0.090		406.178	* uncalibrated *
3.211	67658	VV	0.149		676.577	* uncalibrated *
4.072	13253	VV	0.096		132.531	* uncalibrated *
4.515	27160	VV	0.139		271.603	* uncalibrated *
4.850	34769	VV	0.176		347.687	* uncalibrated *
5.097	10851	VV	0.100		108.505	* uncalibrated *
5.226	16497	VV	0.120		164.965	* uncalibrated *
5.489	11054	VV	0.116		110.543	* uncalibrated *
5.790	1856	PV	0.086		18.555	* uncalibrated *
6.083	48988	VV	0.137		489.884	* uncalibrated *
6.823	10469	VV	0.066		104.694	* uncalibrated *
6.992	14281	VV	0.098		142.811	* uncalibrated *
7.124	14474	VV	0.075		144.743	* uncalibrated *
7.289	23524	VV	0.070		235.237	* uncalibrated *
7.391	40909	VV	0.083		409.087	* uncalibrated *
7.531	22077	VV	0.094		220.769	* uncalibrated *
7.793	13234	VV	0.085		132.343	* uncalibrated *
8.373	10945	VV	0.086		109.450	* uncalibrated *
8.463	6298	VV	0.061		62.976	* uncalibrated *
9.204	1501	VV	0.036		15.007	* uncalibrated *
9.265	7613	VV	0.039		76.133	* uncalibrated *
9.474	21073	VV	0.028		210.734	* uncalibrated *
9.529	175398	VV	0.052		1753.982	* uncalibrated *
9.691	28131	VV	0.035		281.313	* uncalibrated *
9.890	5500	VV	0.054		55.001	* uncalibrated *
10.010	29379	VV	0.033		293.787	* uncalibrated *
10.113	52688	VV	0.051		526.882	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\023R0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.182	20071	VV	0.044	200.709	* uncalibrated *
10.274	19816	VV	0.048	198.158	* uncalibrated *
10.323	20312	VV	0.037	203.124	* uncalibrated *
10.399	4467	VV	0.040	44.674	* uncalibrated *
10.447	3945	VV	0.035	39.452	* uncalibrated *
10.518	13519	VV	0.035	135.189	* uncalibrated *
10.560	24877	VV	0.057	248.767	* uncalibrated *
10.645	3411	VV	0.038	34.108	* uncalibrated *
10.704	2670	VV	0.043	26.702	* uncalibrated *
10.763	17212	VV	0.057	172.121	* uncalibrated *
10.855	9965	VV	0.040	99.653	* uncalibrated *
10.974	9602	VV	0.064	96.019	* uncalibrated *
11.042	6070	VV	0.088	60.700	* uncalibrated *
11.265	2065	VV	0.053	20.646	* uncalibrated *
11.352	2704	VV	0.049	27.036	* uncalibrated *
11.483	5615	VV	0.082	56.154	* uncalibrated *
11.763	5678	VV	0.035	56.782	* uncalibrated *
11.908	1752	VV	0.034	17.519	* uncalibrated *

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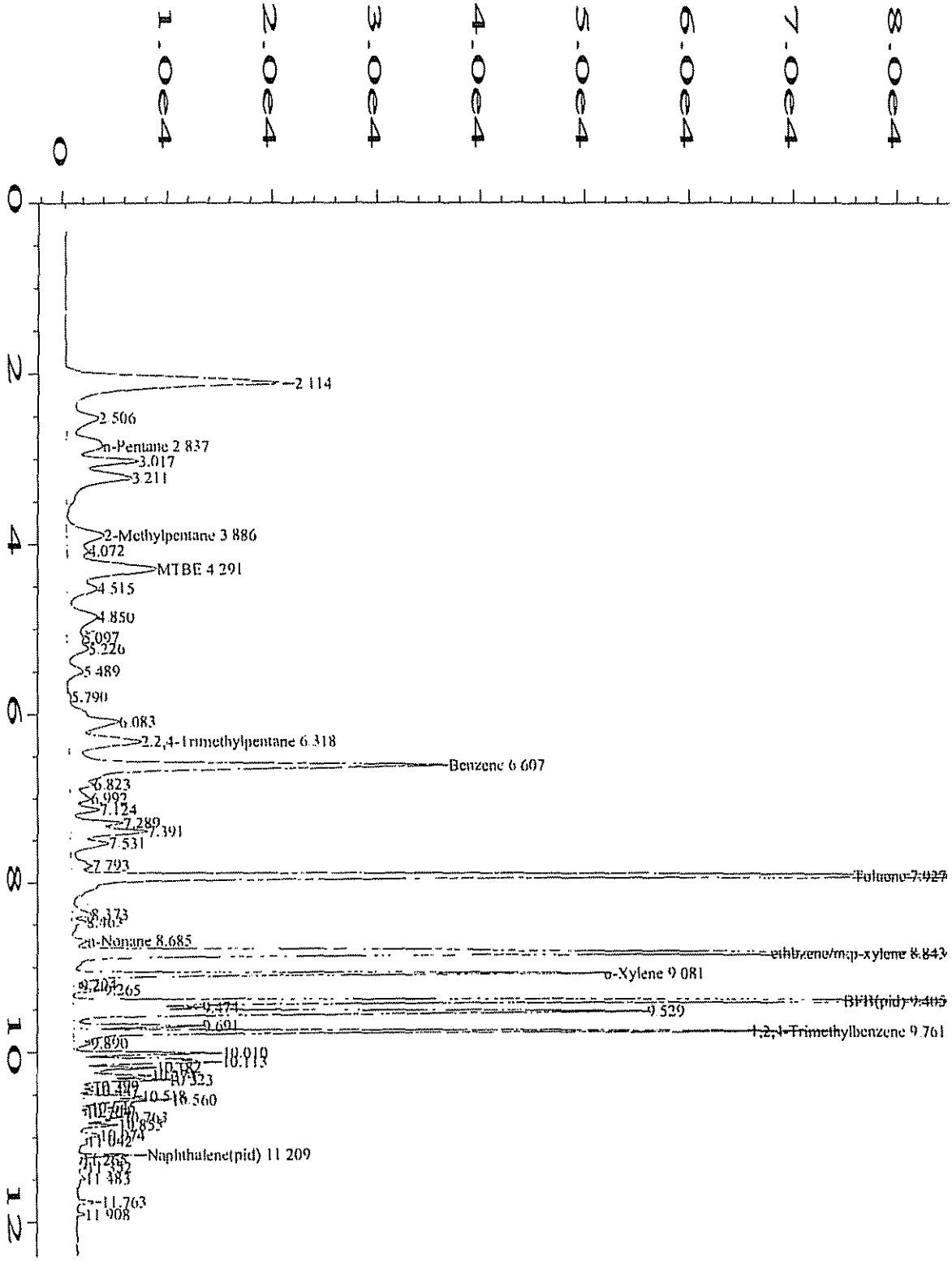

Data File Name	: C:\HPCHEM\1\DATA\vp070805\023R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: 138441 x1 MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:17 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 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

Data File Name	: C:\HPCHEM\1\DATA\vp070805\024F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method:	GAS1.MTH
Report Created on:	11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp070805\024F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.770	20161	BV	0.081	1	20.109	n-Pentane
3.876	37407	VV	0.110	1	6.644	2-Methylpentane
4.224	46448	VV	0.179	1	108.882	MTBE
6.308	51849	VV	0.112	1	9.959	2,2,4-Trimethylpentane
6.597	62901	VV	0.085	1	7.972	Benzene
7.924	211608	VV	0.040	1	22.462	Toluene
8.682	9386	VV	0.048	1	2.355	n-Nonane
8.841	211398	VV	0.040	1	20.665	EBenz, m-,p-Xylene
9.080	71900	VV	0.047	1	7.139	o-Xylene
9.403	80873	PV	0.029	1	311.523	BFB
9.760	93141	VV	0.045	1	9.913	1,2,4-Trimethylbenzene
11.209	6055	VV	0.029	1	1.429	Naphthalene
3.006	10465	PV	0.067		104.647	* uncalibrated *
3.205	10659	PV	0.066		106.593	* uncalibrated *
3.716	2229	PV	0.046		22.288	* uncalibrated *
4.533	25423	VV	0.108		254.235	* uncalibrated *
4.852	19281	PV	0.169		192.815	* uncalibrated *
5.099	10911	VV	0.115		109.106	* uncalibrated *
5.222	9623	VV	0.106		96.228	* uncalibrated *
5.478	19247	VV	0.106		192.474	* uncalibrated *
5.791	1611	PV	0.092		16.112	* uncalibrated *
5.961	17917	VV	0.086		179.173	* uncalibrated *
6.087	43279	VV	0.141		432.790	* uncalibrated *
6.736	9085	VV	0.074		90.848	* uncalibrated *
6.825	7366	VV	0.065		73.660	* uncalibrated *
6.982	17316	VV	0.108		173.161	* uncalibrated *
7.118	11777	VV	0.073		117.770	* uncalibrated *
7.283	22955	VV	0.073		229.548	* uncalibrated *
7.389	36917	VV	0.076		369.172	* uncalibrated *
7.524	23907	VV	0.092		239.073	* uncalibrated *
7.794	15230	VV	0.065		152.301	* uncalibrated *
8.057	9373	VV	0.124		93.732	* uncalibrated *
8.380	12681	VV	0.066		126.808	* uncalibrated *
8.460	5998	VV	0.047		59.984	* uncalibrated *
9.203	1955	VV	0.035		19.550	* uncalibrated *
9.264	5308	VV	0.038		53.083	* uncalibrated *
9.527	109166	VV	0.053		1091.657	* uncalibrated *
9.691	19137	VV	0.034		191.369	* uncalibrated *
9.891	3251	VV	0.048		32.509	* uncalibrated *
10.009	19387	VV	0.032		193.870	* uncalibrated *
10.113	34899	VV	0.052		348.994	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\024F0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.182	12910	VV	0.044	129.103	* uncalibrated *
10.273	14718	VV	0.046	147.184	* uncalibrated *
10.323	14558	VV	0.032	145.577	* uncalibrated *
10.398	3585	VV	0.036	35.845	* uncalibrated *
10.447	2806	VV	0.034	28.061	* uncalibrated *
10.518	9135	VV	0.036	91.349	* uncalibrated *
10.559	16006	VV	0.058	160.056	* uncalibrated *
10.645	2710	VV	0.038	27.097	* uncalibrated *
10.704	2522	VV	0.048	25.219	* uncalibrated *
10.762	7199	VV	0.037	71.988	* uncalibrated *
10.799	4831	VV	0.033	48.307	* uncalibrated *
10.855	7414	VV	0.045	74.139	* uncalibrated *
10.973	7157	VV	0.063	71.574	* uncalibrated *
11.055	5432	VV	0.084	54.323	* uncalibrated *
11.352	1989	VV	0.047	19.893	* uncalibrated *
11.483	2940	VV	0.060	29.399	* uncalibrated *
11.763	4077	VV	0.041	40.771	* uncalibrated *
11.908	1024	VV	0.032	10.237	* uncalibrated *

Calibration table contains at least one peak with amt = 0

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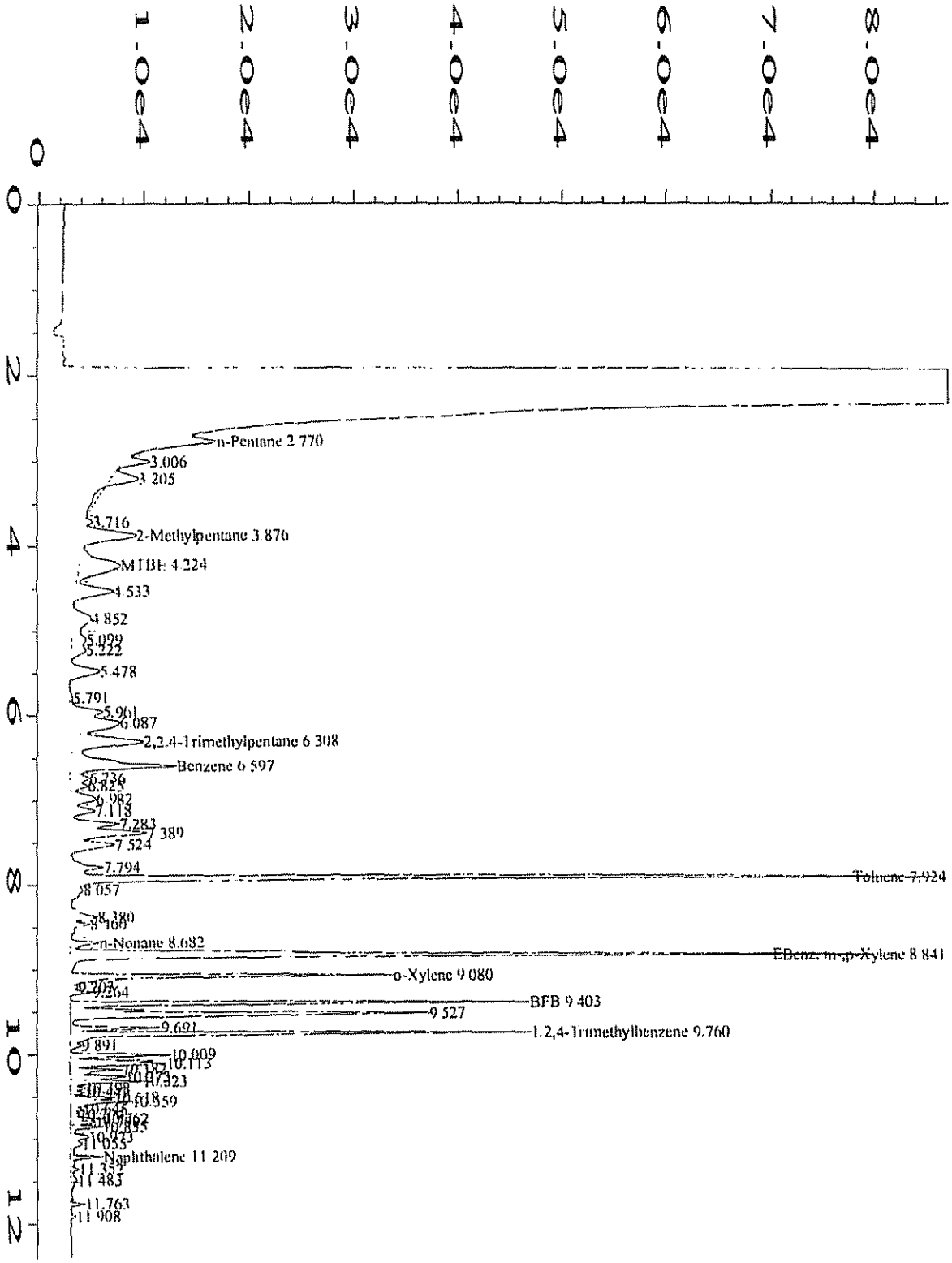

Data File Name	: C:\HPCHEM\1\DATA\vp070805\024F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 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\vp070805\024R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp070805\024R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.833	42511	VV	0.146	1	6.779	n-Pentane
3.890	41547	VV	0.152	1	4.400	2-Methylpentane
4.293	86270	VV	0.154	1	2.862	MTBE
6.318	65905	VV	0.128	1	4.331	2,2,4-Trimethylpentane
6.608	209188	VV	0.079	1	2.629	Benzene
7.928	544107	VV	0.045	1	13.335	Toluene
8.685	6581	VV	0.069	1	0.970	n-Nonane
8.843	453656	VV	0.042	1	13.412	ethbzene/m,p-xylene
9.081	128020	VV	0.037	1	3.305	o-Xylene
9.405	378904	VV	0.047	1	25.502	BFB(pid)
9.761	170643	VV	0.034	1	5.558	1,2,4-Trimethylbenzene
11.209	12846	VV	0.029	1	0.734	Naphthalene(pid)
2.141	225799	BV	0.115		2257.988	* uncalibrated *
2.505	36283	VV	0.145		362.834	* uncalibrated *
3.018	44605	VV	0.091		446.054	* uncalibrated *
3.211	73897	VV	0.160		738.971	* uncalibrated *
4.073	14678	VV	0.096		146.778	* uncalibrated *
4.517	29723	VV	0.141		297.234	* uncalibrated *
4.850	38066	VV	0.176		380.659	* uncalibrated *
5.097	11594	VV	0.097		115.937	* uncalibrated *
5.227	18512	VV	0.121		185.118	* uncalibrated *
5.491	12067	VV	0.116		120.671	* uncalibrated *
5.792	2049	PV	0.087		20.491	* uncalibrated *
6.084	54977	VV	0.139		549.771	* uncalibrated *
6.824	11672	VV	0.066		116.718	* uncalibrated *
6.993	16468	VV	0.098		164.684	* uncalibrated *
7.124	16736	VV	0.075		167.358	* uncalibrated *
7.290	27189	VV	0.071		271.891	* uncalibrated *
7.392	47414	VV	0.085		474.139	* uncalibrated *
7.531	26060	VV	0.096		260.602	* uncalibrated *
7.794	15586	VV	0.087		155.861	* uncalibrated *
8.372	12961	VV	0.088		129.606	* uncalibrated *
8.463	7871	VV	0.066		78.707	* uncalibrated *
9.204	1678	VV	0.036		16.776	* uncalibrated *
9.265	8508	VV	0.040		85.075	* uncalibrated *
9.474	23076	VV	0.028		230.757	* uncalibrated *
9.530	188671	VV	0.052		1886.714	* uncalibrated *
9.691	29967	VV	0.035		299.675	* uncalibrated *
9.890	5976	VV	0.054		59.761	* uncalibrated *
10.010	30708	VV	0.033		307.081	* uncalibrated *
10.113	58153	VV	0.051		581.530	* uncalibrated *

Data File Name	: C:\HPCHEM\1\DATA\vp070805\024R0101.D		
Operator	: DCS	Page Number	: 2
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

10.182	21147	VV	0.044	211.465	* uncalibrated *
10.274	21662	VV	0.048	216.621	* uncalibrated *
10.323	22072	VV	0.037	220.718	* uncalibrated *
10.399	4785	VV	0.041	47.852	* uncalibrated *
10.447	4223	VV	0.035	42.228	* uncalibrated *
10.560	41732	VV	0.074	417.316	* uncalibrated *
10.646	3745	VV	0.038	37.448	* uncalibrated *
10.705	2987	VV	0.042	29.866	* uncalibrated *
10.763	18721	VV	0.057	187.211	* uncalibrated *
10.855	10445	VV	0.045	104.451	* uncalibrated *
10.974	10525	VV	0.063	105.254	* uncalibrated *
11.040	6367	VV	0.086	63.665	* uncalibrated *
11.266	2141	VV	0.053	21.405	* uncalibrated *
11.352	2865	VV	0.049	28.645	* uncalibrated *
11.483	5915	VV	0.079	59.149	* uncalibrated *
11.763	6378	VV	0.034	63.783	* uncalibrated *
11.908	2116	VV	0.034	21.160	* uncalibrated *

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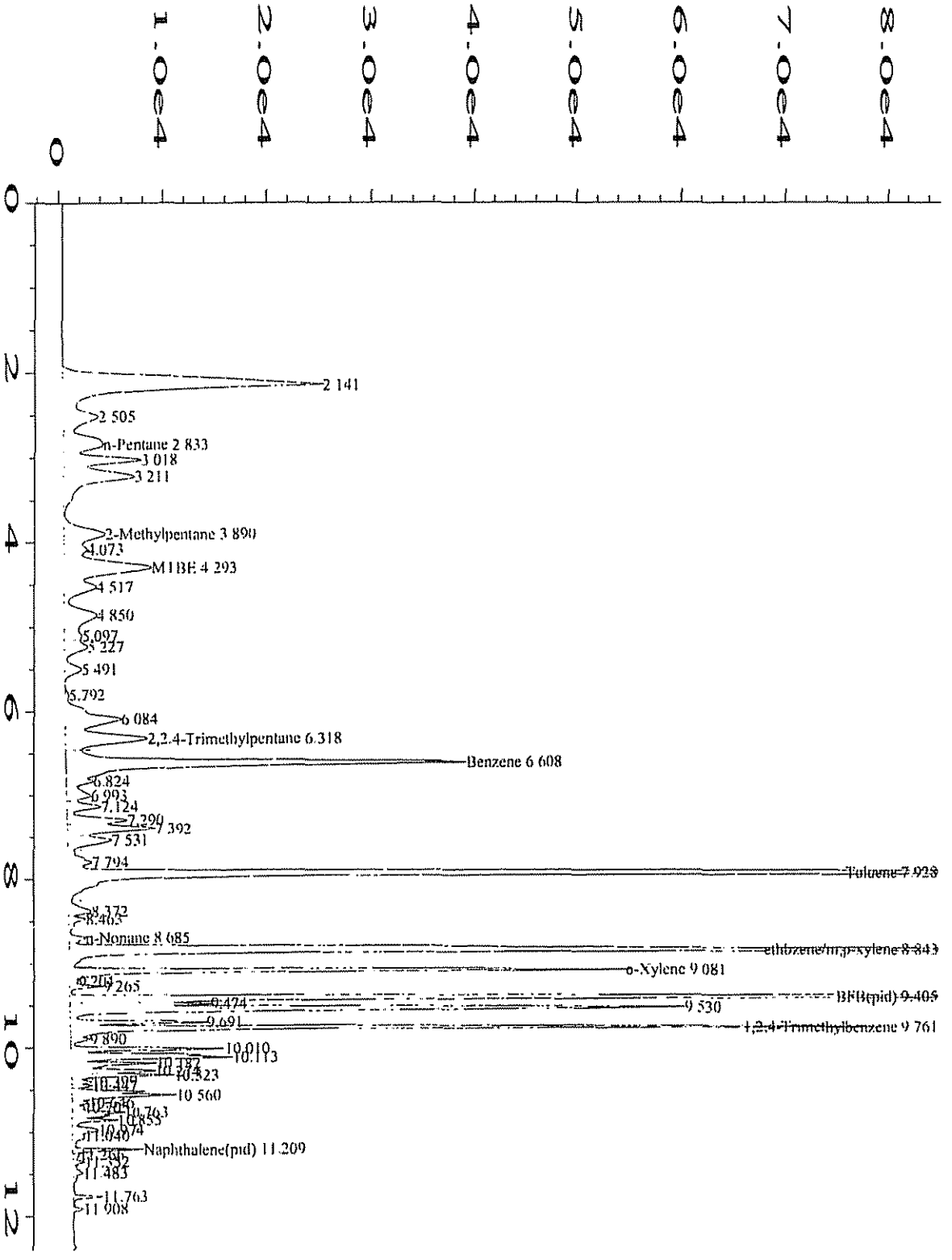


Data File Name	: C:\HPCHEM\1\DATA\vp070805\024R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: 138441 x1 MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 08 Jul 05 05:42 PM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Jul 05 07:15 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH Prep, Standard, Run Logs

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-06/08/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	b	7/8/05 7:43				DCS		
002F0101.D	V 500	7/8/05 8:09				DCS		
003F0101.D	b	7/8/05 8:34				DCS		
004F0101.D	G500	7/8/05 8:59				DCS		
005F0101.D	lcs4070805a	7/8/05 9:25				DCS		
006F0101.D	b	7/8/05 9:50				DCS		
007F0101.D	vblk4070805a	7/8/05 10:15				DCS		
008F0101.D	G211-1829-12E x20	7/8/05 10:42	cid= 135630			DCS		
009F0101.D	G122-2613-1E x1	7/8/05 11:07	cid= 136410			DCS		
010F0101.D	G122-2613-2C x1	7/8/05 11:32	cid= 136414			DCS		
011F0101.D	G161-2054-1B x1	7/8/05 11:57	cid= 138109			DCS		
012F0101.D	G161-2055-1E x1	7/8/05 12:23	cid= 138118			DCS		
013F0101.D	G161-2055-2E x1	7/8/05 12:48	cid= 138124			DCS		
014F0101.D	137598 x1	7/8/05 13:13				DCS		
015F0101.D	G161-2049-1A x5	7/8/05 13:38	cid= 137588			DCS		
016F0101.D	G161-2046-1D x1	7/8/05 14:04	cid= 136912			DCS		
017F0101.D	G161-2046-4E x1	7/8/05 14:29	cid= 136950			DCS		
018F0101.D	G161-2046-2D x100	7/8/05 14:54	cid= 136922			DCS		
019F0101.D	b	7/8/05 15:36				DCS		
020F0101.D	G500	7/8/05 16:01				DCS		

Analyst: _____

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-06/08/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
021F0101.D	lcs4070805b	7/8/05 16:26				DCS		
022F0101.D	vblk4070805b	7/8/05 16:51				DCS		
023F0101.D	G161-2059-2B x1 MS	7/8/05 17:17	cid= 138441			DCS		
024F0101.D	G161-2059-2B x1 MSD	7/8/05 17:42	cid= 138441			DCS		
025F0101.D	G161-2058-5B x1	7/8/05 18:07	cid= 138432			DCS		
026F0101.D	G161-2058-6B x1	7/8/05 18:33	cid= 138435			DCS		
027F0101.D	G161-2059-1B x1	7/8/05 18:58	cid= 138438			DCS		
028F0101.D	G161-2059-2B x1	7/8/05 19:23	cid= 138441			DCS		
029F0101.D	G161-2059-3B x1	7/8/05 19:48	cid= 138444			DCS		
030F0101.D	G161-2059-4A x1	7/8/05 20:14	cid= 138446			DCS		
031F0101.D	G161-2059-5B x1	7/8/05 20:39	cid= 138450			DCS		
032F0101.D	G161-2059-6B x1	7/8/05 21:04	cid= 138453			DCS		
033F0101.D	G161-2059-7B x1	7/8/05 21:29	cid= 138456			DCS		
034F0101.D	G161-2059-8A x1	7/8/05 21:55	cid= 138458			DCS		
035F0101.D	G161-2061-1B x1	7/8/05 22:20	cid= 138940			DCS		
036F0101.D	G161-2061-2B x1	7/8/05 22:45	cid= 138943			DCS		
037F0101.D	G161-2061-3A x1	7/8/05 23:11	cid= 138945			DCS		
038F0101.D	G161-2061-4B x1	7/8/05 23:36	cid= 138949			DCS		
039F0101.D	G161-2061-5B x1	7/9/05 0:01	cid= 138952			DCS		
040F0101.D	G161-2061-6B x1	7/9/05 0:26	cid= 138955			DCS		

Analyst: _____

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: VPH/5030 GRO

Initial Cal. Curve: VPH-06/08/05 GRO-06/01/05

Matrix: Water/Soil

Batch: vp070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
041F0101.D	G161-2061-7A x1	7/9/05 0:52	cid= 138957			DCS		
042F0101.D	G161-2061-8B x1	7/9/05 1:17	cid= 138961			DCS		
043F0101.D	G161-2061-8B x1 MS	7/9/05 1:42	cid= 138961			DCS		
044F0101.D	G161-2061-8B x1 MSD	7/9/05 2:07	cid= 138961			DCS		
045F0101.D	vlcs4070805b	7/9/05 2:32				DCS		

Analyst: _____

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Volatiles Standard Logbook # 6
Paradigm Analytical

Working Standard

ID: VPH-QC-7-060805

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: 6/8/05
Expires: 12/8/05

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\EP071205\011F1101.D
Operator : DCS
Page Number :
Instrument : GC6
Vial Number : Vial 11
Sample Name : G161-2055-1H x1 K
Injection Number : 1
Run Time Bar Code: 139161
Sequence Line : 11
Acquired on : 12 Jul 05 4:43:16 PM
Instrument Method: PROEPH.M
Report Created on: 13 Jul 2005 8:32:21 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 :

DCS 7/13

Sig. 1 in C:\HPCHEM\1\DATA\EP071205\011F1101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.092	3.66198	VP	0.01	1	4.424e-6	nonane
3.893	8.17665	VV	0.03	2	9.877e-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
9.586	0.00000	XX	0.00	9	0.00000	OTP
9.605	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
11.030	19.43399	VV	0.06	12	2.348e-5	docosane
11.395	1826.02454	VV	0.02	13	0.00221	COD
11.884	26.86058	VV	0.04	14	3.245e-5	tetracosane
12.536	38.54742	VV	0.03	15	4.656e-5	hexacosane
13.378	83.12586	VV	0.03	16	0.00010	octacosane
14.073	128.68462	VV	0.04	17	0.00016	triacontane
16.244	67.62158	VV	0.08	18	8.168e-5	hexatriacontane
0.555	90.11564	PV	0.02	1	0.00011	* uncalibrated *
0.589	40.95718	VV	0.01	2	4.947e-5	* uncalibrated *
0.639	3984.83984	VVS	0.01	3	0.00481	* uncalibrated *
0.677	2.83194e5	VVS	0.01	4	0.34209	* uncalibrated *
1.876	8.14374e7	VVS	1.00	5	98.37357	* uncalibrated *
1.904	9.09918e5	VVS	0.01	6	1.09915	* uncalibrated *
1.949	9654.77441	VVS	0.02	7	0.01166	* uncalibrated *
1.993	1.93588e4	VVS	0.06	8	0.02338	* uncalibrated *
2.066	7739.38135	VVS	0.02	9	0.00935	* uncalibrated *
2.119	1.12459e4	VVS	0.04	10	0.01358	* uncalibrated *
2.171	1.39015e4	VVS	0.05	11	0.01679	* uncalibrated *
2.231	9449.72949	VVS	0.03	12	0.01141	* uncalibrated *
2.276	7084.41064	VVS	0.03	13	0.00856	* uncalibrated *
2.324	1.01452e4	VVS	0.05	14	0.01226	* uncalibrated *
2.377	6825.36914	VVS	0.03	15	0.00824	* uncalibrated *
2.425	1.04987e4	VVS	0.05	16	0.01268	* uncalibrated *
2.484	6297.67822	VVS	0.03	17	0.00761	* uncalibrated *
2.525	6141.29102	VVS	0.02	18	0.00742	* uncalibrated *
2.561	5544.36670	VVS	0.02	19	0.00670	* uncalibrated *
2.596	5925.11279	VVS	0.03	20	0.00716	* uncalibrated *
2.634	4614.67285	VVS	0.03	21	0.00557	* uncalibrated *
2.691	2469.25952	VVS	0.02	22	0.00298	* uncalibrated *
2.725	1883.09521	VVS	0.02	23	0.00227	* uncalibrated *
2.758	1308.78979	VVS	0.02	24	0.00158	* uncalibrated *
2.780	653.40680	VBAS	0.01	25	0.00079	* uncalibrated *

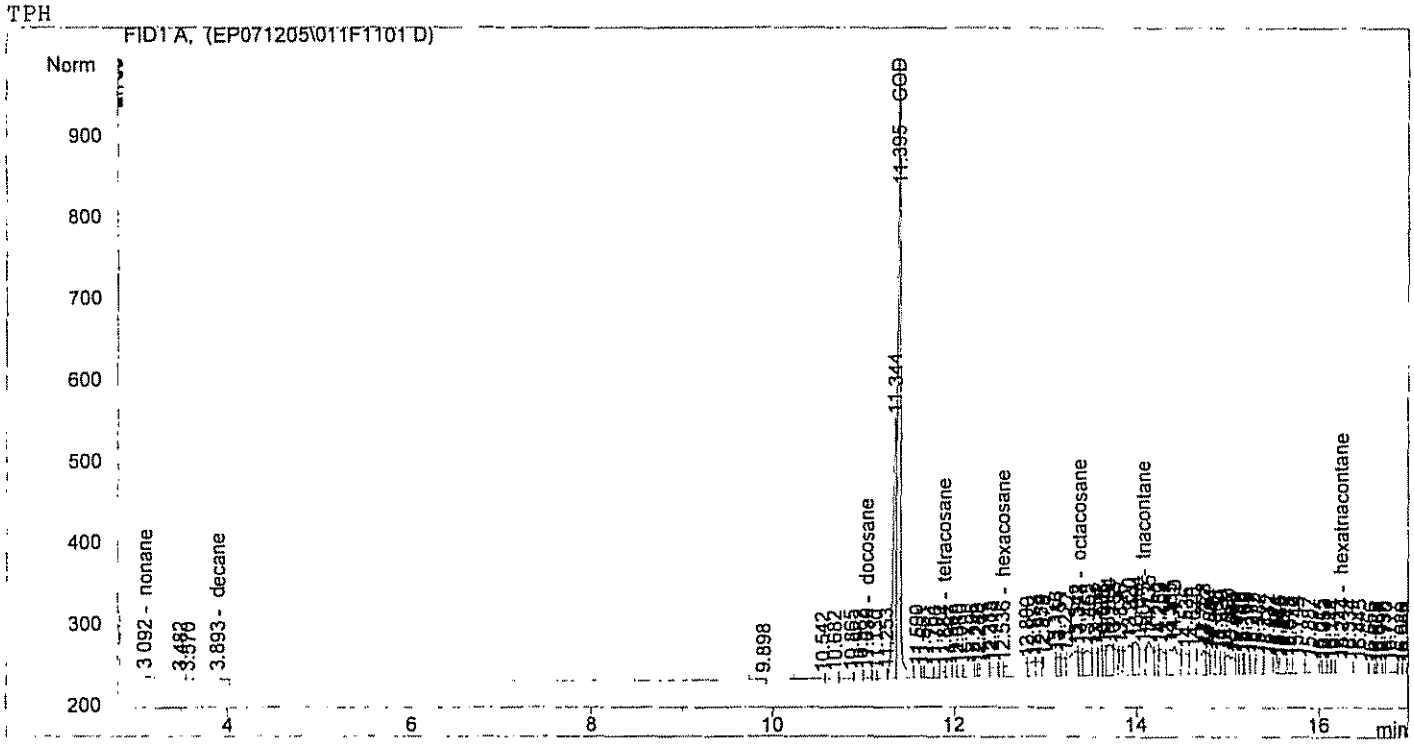
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP071205\012F1201.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 12
Sample Name	: G161-2055-1H x1 R	Injection Number	: 1
Run Time Bar Code	: 139161	Sequence Line	: 12
Acquired on	: 12 Jul 05 5:10:38 PM	Instrument Method	: PROEPH.M
Report Created on	: 13 Jul 2005 8:32:29 AM	Analysis Method	: EPH-R_F.M
Last Recalib on	: 11 Jul 2005 3:08:31 PM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP071205\012F1201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.338	10.20237	PB	0.03	1	1.723e-5	naphthalene
6.141	0.00000	XX	0.00	2	0.00000	2-methylnaphthalene
6.634	7010.98193	VB	0.02	3	0.01184	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.310	5092.63721	BB	0.03	5	0.00860	2-BrN(frac)
7.362	0.00000	XX	0.00	6	0.00000	acenaphthene
8.000	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
9.566	2259.20312	BV	0.02	10	0.00382	OTP
10.460	0.00000	XX	0.00	11	0.00000	fluoranthene
10.683	10.68990	BB	0.04	12	1.805e-5	pyrene
11.380	76.29913	BB	0.02	13	0.00013	COD
12.094	28.33012	VV	0.10	14	4.784e-5	benzo(a)anthracene
12.165	29.08780	VB	0.05	15	4.912e-5	chrysene
13.274	84.10403	VV	0.05	16	0.00014	benzo(k)fluoranthene
13.319	42.24355	VV	0.03	17	7.134e-5	benzo(b)fluoranthene
13.626	218.36269	VV	0.12	18	0.00037	benzo(a)pyrene
14.592	111.26029	VV	0.07	19	0.00019	dibenzo(a,h)anthracene
14.639	66.48142	VV	0.06	20	0.00011	indeno(1,2,3-cd)pyrene
14.742	195.23656	VB	0.11	21	0.00033	benzo(g,h,i)perylene
0.522	4.96001	PV	0.02	1	8.377e-6	* uncalibrated *
1.495	5.52524e7	VVS	0.72	2	93.31076	* uncalibrated *
1.582	2.29397e5	VVS	0.03	3	0.38741	* uncalibrated *
1.636	2.43477e5	VVS	0.04	4	0.41119	* uncalibrated *
1.676	1.61110e5	VVS	0.02	5	0.27208	* uncalibrated *
1.716	1.28603e5	VVS	0.02	6	0.21719	* uncalibrated *
1.737	1.69272e5	VVS	0.03	7	0.28587	* uncalibrated *
1.782	1.60369e5	VVS	0.02	8	0.27083	* uncalibrated *
1.816	2.06141e5	VVS	0.03	9	0.34813	* uncalibrated *
1.877	1.82798e5	VVS	0.02	10	0.30871	* uncalibrated *
1.926	5.16620e5	VVS	0.12	11	0.87247	* uncalibrated *
2.047	9.90109e4	VVS	0.02	12	0.16721	* uncalibrated *
2.098	2.73673e5	VVS	0.07	13	0.46218	* uncalibrated *
2.173	1.59320e5	VVS	0.03	14	0.26906	* uncalibrated *
2.225	1.68172e5	VVS	0.04	15	0.28401	* uncalibrated *
2.269	1.20829e5	VVS	0.02	16	0.20406	* uncalibrated *
2.315	1.36145e5	VVS	0.03	17	0.22992	* uncalibrated *
2.353	1.03018e5	VVS	0.02	18	0.17398	* uncalibrated *
2.395	1.49242e5	VVS	0.03	19	0.25204	* uncalibrated *
2.482	2.19068e5	VVS	0.06	20	0.36996	* uncalibrated *
2.526	1.06533e5	VVS	0.02	21	0.17991	* uncalibrated *
2.563	9.47365e4	VVS	0.02	22	0.15999	* uncalibrated *

```
==========================================================================
Injection Date  : 7/12/2005 4:43:16 PM          Seq. Line :  11
Sample Name     : 139161 x1 K                    Location : Vial 11
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071205.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    : 6/8/2005 10:16:35 AM by CLP
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   3.092 VP     0.0177    3.66198 4.424e-6 nonane
   2   3.893 VV     0.0361    8.17665 9.877e-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   9.586        0.0000    0.00000  0.00000 OTP
  10   9.605        0.0000    0.00000  0.00000 nonadecane
  11  10.154        0.0000    0.00000  0.00000 eicosane
  12  11.030 VV     0.0618   19.43399 2.348e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.395	VV	0.0274	1826.02454	0.00221	COD
14	11.884	VV	0.0456	26.86058	3.245e-5	tetracosane
15	12.536	VV	0.0399	38.54742	4.656e-5	hexacosane
16	13.378	VV	0.0342	83.12586	0.00010	octacosane
17	14.073	VV	0.0492	128.68462	0.00016	triacontane
18	16.244	VV	0.0802	67.62158	8.168e-5	hexatriacontane

Totals : 2202.13721 2.660e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0209	90.11564	0.00011	?
2	0.589	VV	0.0198	40.95718	4.947e-5	?
3	0.639	VV S	0.0129	3984.83984	0.00481	?
4	0.677	VV S	0.0178	2.83194e5	0.34209	?
5	1.876	VV S	1.0059	8.14374e7	98.37357	?
6	1.904	VV S	0.0189	9.09918e5	1.09915	?
7	1.949	VV S	0.0285	9654.77441	0.01166	?
8	1.993	VV S	0.0636	1.93588e4	0.02338	?
9	2.066	VV S	0.0270	7739.38135	0.00935	?
10	2.119	VV S	0.0440	1.12459e4	0.01358	?
11	2.171	VV S	0.0586	1.39015e4	0.01679	?
12	2.231	VV S	0.0346	9449.72949	0.01141	?
13	2.276	VV S	0.0353	7084.41064	0.00856	?
14	2.324	VV S	0.0512	1.01452e4	0.01226	?
15	2.377	VV S	0.0329	6825.36914	0.00824	?
16	2.425	VV S	0.0567	1.04987e4	0.01268	?
17	2.484	VV S	0.0328	6297.67822	0.00761	?
18	2.525	VV S	0.0292	6141.29102	0.00742	?
19	2.561	VV S	0.0254	5544.36670	0.00670	?
20	2.596	VV S	0.0329	5925.11279	0.00716	?
21	2.634	VV S	0.0398	4614.67285	0.00557	?
22	2.691	VV S	0.0241	2469.25952	0.00298	?
23	2.725	VV S	0.0277	1883.09521	0.00227	?
24	2.758	VV S	0.0242	1308.78979	0.00158	?
25	2.780	VBAS	0.0168	653.40680	0.00079	?
26	3.482	PV	0.0273	6.20158	7.491e-6	?
27	3.570	VV	0.0409	5.61243	6.780e-6	?
28	9.898	VV	0.0602	4.73702	5.722e-6	?
29	10.542	VV	0.1248	14.86132	1.795e-5	?
30	10.682	VV	0.0704	15.86859	1.917e-5	?
31	10.865	VV	0.0907	23.10170	2.791e-5	?
32	10.962	VV	0.0630	19.23602	2.324e-5	?
33	11.130	VV	0.0411	11.86030	1.433e-5	?
34	11.253	VV	0.0673	29.78314	3.598e-5	?
35	11.344	VV	0.0362	795.59326	0.00096	?
36	11.590	VV	0.0587	37.49448	4.529e-5	?
37	11.661	VV	0.0252	12.87755	1.556e-5	?
38	11.754	VV	0.0695	44.79221	5.411e-5	?
39	11.796	VV	0.0511	30.81642	3.723e-5	?
40	11.967	VV	0.0539	32.39857	3.914e-5	?
41	12.019	VV	0.0365	23.96731	2.895e-5	?
42	12.060	VV	0.0479	35.70903	4.314e-5	?
43	12.196	VV	0.0912	65.06463	7.860e-5	?
44	12.243	VV	0.0257	18.01223	2.176e-5	?
45	12.266	VV	0.0171	11.45279	1.383e-5	?
46	12.383	VV	0.0733	70.98515	8.575e-5	?
47	12.418	VV	0.0684	68.17400	8.235e-5	?
48	12.800	VV	0.1686	224.96576	0.00027	?
49	12.873	VV	0.0594	86.91680	0.00010	?
50	12.959	VV	0.0490	71.78750	8.672e-5	?
51	12.979	VV	0.0145	18.13496	2.191e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	13.116	VV	0.0894	170.68987	0.00021	?
53	13.151	VV	0.0445	74.95428	9.054e-5	?
54	13.227	VV	0.0435	75.28841	9.095e-5	?
55	13.342	VV	0.0829	196.39532	0.00024	?
56	13.465	VV	0.0779	191.30322	0.00023	?
57	13.554	VV	0.0373	83.90929	0.00010	?
58	13.602	VV	0.0360	93.13631	0.00011	?
59	13.645	VV	0.0322	78.55029	9.489e-5	?
60	13.694	VV	0.0539	171.20924	0.00021	?
61	13.755	VV	0.0429	116.35249	0.00014	?
62	13.826	VV	0.0326	80.26157	9.695e-5	?
63	13.920	VV	0.0669	196.96887	0.00024	?
64	13.994	VV	0.0551	173.29515	0.00021	?
65	14.135	VV	0.0616	190.06262	0.00023	?
66	14.232	VV	0.0390	101.17471	0.00012	?
67	14.259	VV	0.0597	143.29788	0.00017	?
68	14.365	VV	0.0462	111.95392	0.00014	?
69	14.410	VV	0.0623	166.95822	0.00020	?
70	14.536	VV	0.0608	129.85905	0.00016	?
71	14.620	VV	0.0565	116.50153	0.00014	?
72	14.728	VV	0.0644	155.50357	0.00019	?
73	14.767	VV	0.0333	67.55767	8.161e-5	?
74	14.804	VV	0.0424	83.19675	0.00010	?
75	14.868	VV	0.0410	73.34160	8.859e-5	?
76	14.920	VV	0.0408	64.83961	7.832e-5	?
77	14.990	VV	0.0445	81.23856	9.813e-5	?
78	15.044	VV	0.0436	67.21050	8.119e-5	?
79	15.097	VV	0.0378	51.64587	6.239e-5	?
80	15.148	VV	0.0243	31.93704	3.858e-5	?
81	15.169	VV	0.0166	21.85081	2.640e-5	?
82	15.188	VV	0.0495	75.06570	9.068e-5	?
83	15.272	VV	0.0397	55.63894	6.721e-5	?
84	15.332	VV	0.0664	88.32361	0.00011	?
85	15.432	VV	0.0645	82.47169	9.962e-5	?
86	15.524	VV	0.0348	38.42372	4.641e-5	?
87	15.544	VV	0.0198	20.80782	2.514e-5	?
88	15.565	VV	0.0557	63.15806	7.629e-5	?
89	15.645	VV	0.0225	22.53212	2.722e-5	?
90	15.678	VV	0.0334	24.67435	2.981e-5	?
91	15.744	VV	0.0934	100.98335	0.00012	?
92	15.887	VV	0.1058	97.69532	0.00012	?
93	16.015	VV	0.0234	16.79093	2.028e-5	?
94	16.053	VV	0.0414	31.96530	3.861e-5	?
95	16.111	VV	0.0344	24.44375	2.953e-5	?
96	16.144	VV	0.0335	24.19781	2.923e-5	?
97	16.334	VV	0.0532	35.76682	4.321e-5	?
98	16.445	VV	0.1061	69.24755	8.365e-5	?
99	16.566	VV	0.0457	22.26237	2.689e-5	?
100	16.628	VV	0.0219	8.52657	1.030e-5	?
101	16.667	VV	0.0487	22.26825	2.690e-5	?
102	16.730	VV	0.0295	11.38653	1.375e-5	?
103	16.777	VV	0.0901	46.29120	5.592e-5	?
104	16.926	VV	0.0384	13.96317	1.687e-5	?
105	16.967	VV	0.0434	13.14905	1.588e-5	?
106	17.000	VV	0.0621	24.81305	2.997e-5	?
107	17.102	VV	0.0330	9.23675	1.116e-5	?
108	17.161	VV	0.0433	12.55757	1.517e-5	?
109	17.196	VV	0.0216	5.18778	6.267e-6	?
110	17.223	VV	0.0233	6.06220	7.323e-6	?
111	17.254	VV	0.0570	14.54149	1.757e-5	?
112	17.331	VV	0.0532	12.59406	1.521e-5	?
113	17.432	VV	0.0312	3.45838	4.178e-6	?
114	17.535	VV	0.0605	6.75822	8.164e-6	?
115	17.576	VV	0.0312	3.16042	3.818e-6	?

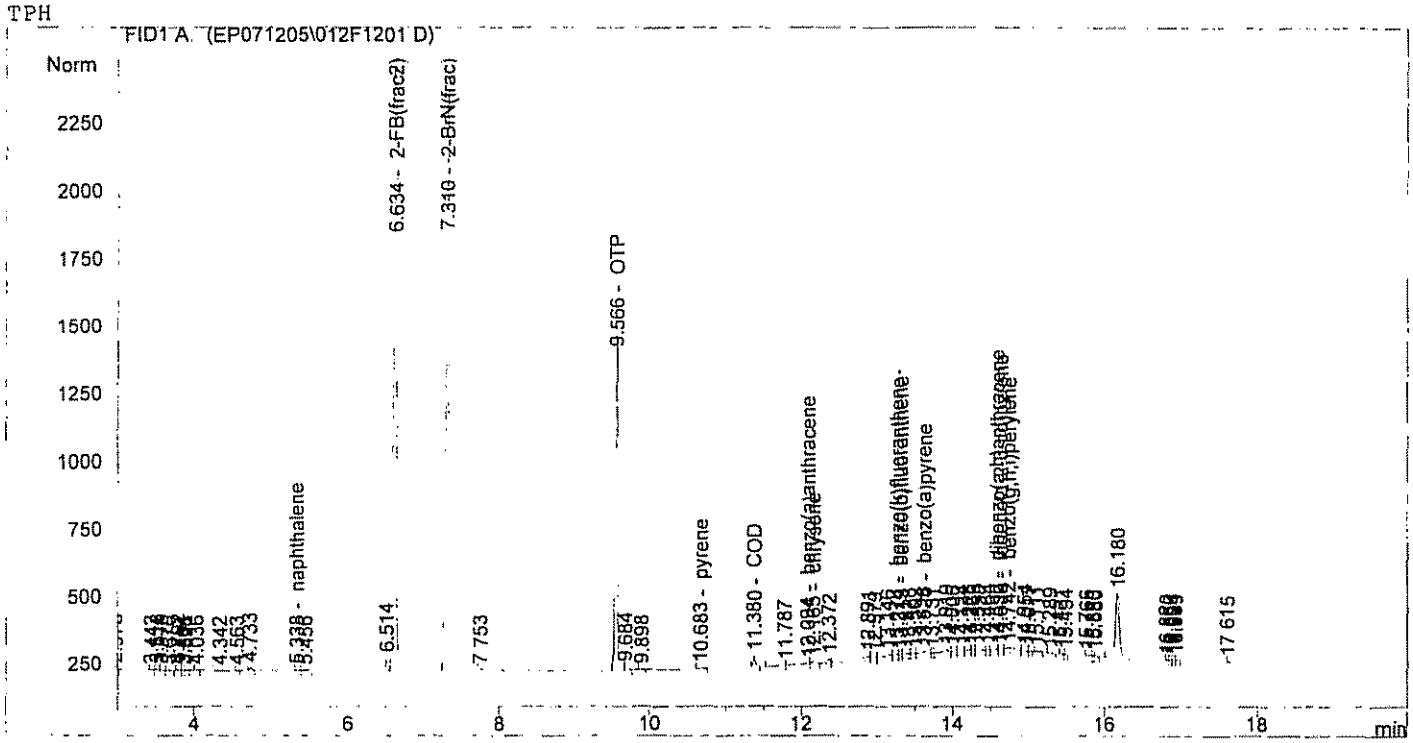
Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
Uncalib. totals :				8.27816e7	99.9973	

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  : 7/12/2005 5:10:38 PM          Seq. Line :  12
Sample Name     : 139161 x1 R                    Location : Vial 12
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\071205.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    : 7/11/2005 3:10:06 PM by DCS
TPH
```




```
==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/11/2005 3:08:31 PM
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   5.338 PB     0.0303   10.20237 1.723e-5 naphthalene
   2   6.141        0.0000    0.00000  0.00000 2-methylnaphthalene
   3   6.634 VB     0.0294 7010.98193  0.01184 2-FB(frac2)
   4   7.158        0.0000    0.00000  0.00000 acenaphthylene
   5   7.310 BB     0.0327 5092.63721  0.00860 2-BrN(frac)
   6   7.362        0.0000    0.00000  0.00000 acenaphthene
   7   8.000        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   9.566 BV     0.0274 2259.20312  0.00382 OTP
  11  10.460        0.0000    0.00000  0.00000 fluoranthene
  12  10.683 BB     0.0434   10.68990 1.805e-5 pyrene
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.380	BB	0.0284	76.29913	0.00013	COD
14	12.094	VV	0.1048	28.33012	4.784e-5	benzo(a)anthracene
15	12.165	VB	0.0519	29.08780	4.912e-5	chrysene
16	13.274	VV	0.0566	84.10403	0.00014	benzo(k)fluoranthene
17	13.319	VV	0.0363	42.24355	7.134e-5	benzo(b)fluoranthene
18	13.626	VV	0.1250	218.36269	0.00037	benzo(a)pyrene
19	14.592	VV	0.0761	111.26029	0.00019	dibenzo(a,h)anthracene
20	14.639	VV	0.0661	66.48142	0.00011	indeno(1,2,3-cd)pyrene
21	14.742	VB	0.1185	195.23656	0.00033	benzo(g,h,i)perylene

Totals : 1.52351e4 2.573e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.522	PV	0.0252	4.96001	8.377e-6	?
2	1.495	VV S	0.7236	5.52524e7	93.31076	?
3	1.582	VV S	0.0321	2.29397e5	0.38741	?
4	1.636	VV S	0.0438	2.43477e5	0.41119	?
5	1.676	VV S	0.0273	1.61110e5	0.27208	?
6	1.716	VV S	0.0257	1.28603e5	0.21719	?
7	1.737	VV S	0.0310	1.69272e5	0.28587	?
8	1.782	VV S	0.0264	1.60369e5	0.27083	?
9	1.816	VV S	0.0350	2.06141e5	0.34813	?
10	1.877	VV S	0.0293	1.82798e5	0.30871	?
11	1.926	VV S	0.1278	5.16620e5	0.87247	?
12	2.047	VV S	0.0247	9.90109e4	0.16721	?
13	2.098	VV S	0.0734	2.73673e5	0.46218	?
14	2.173	VV S	0.0375	1.59320e5	0.26906	?
15	2.225	VV S	0.0465	1.68172e5	0.28401	?
16	2.269	VV S	0.0264	1.20829e5	0.20406	?
17	2.315	VV S	0.0320	1.36145e5	0.22992	?
18	2.353	VV S	0.0287	1.03018e5	0.17398	?
19	2.395	VV S	0.0345	1.49242e5	0.25204	?
20	2.482	VV S	0.0659	2.19068e5	0.36996	?
21	2.526	VV S	0.0246	1.06533e5	0.17991	?
22	2.563	VV S	0.0292	9.47365e4	0.15999	?
23	2.606	VV S	0.0582	1.69569e5	0.28637	?
24	2.665	VB S	0.0619	1.45858e5	0.24633	?
25	2.978	BB X	0.0224	3.01411	5.090e-6	?
26	3.442	PB	0.0244	2.48656	4.199e-6	?
27	3.518	BV	0.0274	11.62950	1.964e-5	?
28	3.576	VB	0.0243	4.45692	7.527e-6	?
29	3.670	BP	0.0208	2.10727	3.559e-6	?
30	3.792	PV	0.0236	13.56315	2.291e-5	?
31	3.861	VV	0.0214	3.31888	5.605e-6	?
32	3.896	VB	0.0295	3.72007	6.282e-6	?
33	4.036	PP	0.0241	3.42406	5.783e-6	?
34	4.342	PB	0.0592	11.24522	1.899e-5	?
35	4.563	PP	0.0223	2.53155	4.275e-6	?
36	4.733	BB	0.0296	21.76266	3.675e-5	?
37	5.456	BB	0.0472	6.91301	1.167e-5	?
38	6.514	PV	0.0300	97.27348	0.00016	?
39	7.753	PB	0.0267	2.31242	3.905e-6	?
40	9.684	VB	0.0375	30.55690	5.160e-5	?
41	9.898	PP	0.0276	2.55634	4.317e-6	?
42	11.787	PV	0.0982	15.94919	2.694e-5	?
43	12.372	BV	0.0411	49.47150	8.355e-5	?
44	12.891	VV	0.1862	245.31795	0.00041	?
45	12.979	VV	0.0787	58.85070	9.939e-5	?
46	13.146	VV	0.1035	170.79436	0.00029	?
47	13.428	VV	0.0700	115.62032	0.00020	?
48	13.502	VV	0.0560	74.31139	0.00013	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	13.731	VV	0.0247	34.30953	5.794e-5	?
50	13.919	VV	0.1251	262.49139	0.00044	?
51	14.006	VV	0.0596	89.07466	0.00015	?
52	14.124	VV	0.0607	98.38725	0.00017	?
53	14.225	VV	0.0554	91.72041	0.00015	?
54	14.269	VV	0.0371	54.14053	9.143e-5	?
55	14.350	VV	0.0879	141.64706	0.00024	?
56	14.464	VV	0.0348	56.19035	9.489e-5	?
57	14.954	BV	0.0522	36.35471	6.140e-5	?
58	15.017	VB	0.0236	6.23105	1.052e-5	?
59	15.111	BB	0.0396	6.25862	1.057e-5	?
60	15.289	PP	0.0273	4.92232	8.313e-6	?
61	15.421	BP	0.0279	4.00291	6.760e-6	?
62	15.494	BP	0.0119	1.49832	2.530e-6	?
63	15.766	BB	0.0425	9.57124	1.616e-5	?
64	15.850	BP	0.0141	2.13864	3.612e-6	?
65	15.880	VP	0.0239	3.73612	6.310e-6	?
66	16.180	BP	0.0505	847.42413	0.00143	?
67	16.820	BP	0.0210	2.78886	4.710e-6	?
68	16.866	VP	0.0189	1.95172	3.296e-6	?
69	16.904	VV	0.0284	3.31898	5.605e-6	?
70	16.939	VB	0.0226	2.94910	4.980e-6	?
71	17.615	PP	0.0140	1.75577	2.965e-6	?

Uncalib. totals : 5.91981e7 99.9743

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

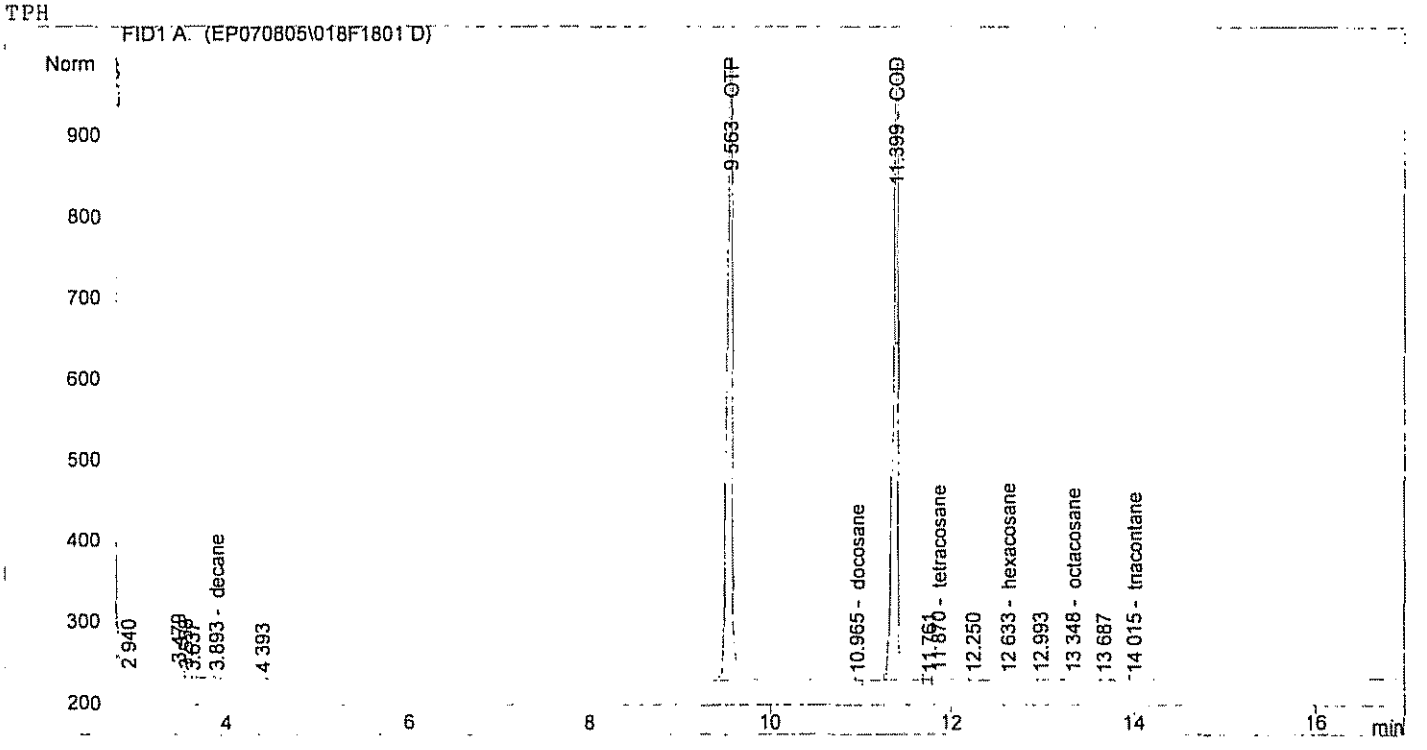
Data File Name : C:\HPCHEM\1\DATA\EP070805\018F1801.D
Operator : DCS
Page Number :
Instrument : GC6
Vial Number : Vial 18
Sample Name : G161-2055-2G x1 T
Injection Number : 1
Run Time Bar Code: 139162
Sequence Line : 18
Acquired on : 8 Jul 05 4:32:56 PM
Instrument Method: PROEPH.M
Report Created on: 11 Jul 2005 1:36:42 PM
Analysis Method : EPHTK_F.M
Last Recalib on : 11 Jul 2005 11:25:11 AM
Sample Amount : 10 µl
Multiplier : 1.0000
ISTD Amount :

JCS 7/11

Sig. 1 in C:\HPCHEM\1\DATA\EP070805\018F1801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.072	0.00000	XX	0.00	1	0.00000	nonane
3.893	3.82285	VB	0.03	2	4.643e-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
9.563	3371.58350	BB	0.03	9	0.00409	OTP
9.586	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
10.965	3.01189	VP	0.03	12	3.658e-6	docosane
11.399	2986.64697	BB	0.03	13	0.00363	COD
11.870	25.74467	VV	0.10	14	3.127e-5	tetracosane
12.633	8.56539	VP	0.05	15	1.040e-5	hexacosane
13.348	8.55855	VV	0.05	16	1.039e-5	octacosane
14.015	3.74193	VP	0.04	17	4.545e-6	triacontane
16.215	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.555	180.65900	PV	0.02	1	0.00022	* uncalibrated *
0.590	70.63283	VV	0.01	2	8.579e-5	* uncalibrated *
0.639	5063.33301	VVS	0.01	3	0.00615	* uncalibrated *
0.675	2.30740e5	VVS	0.01	4	0.28024	* uncalibrated *
1.840	8.11426e7	VVS	0.99	5	98.54974	* uncalibrated *
1.890	8.42242e5	VVS	0.01	6	1.02292	* uncalibrated *
1.954	8485.89453	VVS	0.02	7	0.01031	* uncalibrated *
1.982	1.10271e4	VVS	0.04	8	0.01339	* uncalibrated *
2.040	1.03307e4	VVS	0.04	9	0.01255	* uncalibrated *
2.095	7660.25879	VVS	0.02	10	0.00930	* uncalibrated *
2.126	5049.89063	VVS	0.02	11	0.00613	* uncalibrated *
2.161	5794.08057	VVS	0.03	12	0.00704	* uncalibrated *
2.192	6121.10010	VVS	0.02	13	0.00743	* uncalibrated *
2.231	5157.17334	VVS	0.02	14	0.00626	* uncalibrated *
2.263	6535.27637	VVS	0.03	15	0.00794	* uncalibrated *
2.311	5878.74707	VVS	0.02	16	0.00714	* uncalibrated *
2.351	4897.35596	VVS	0.03	17	0.00595	* uncalibrated *
2.395	5820.01025	VVS	0.03	18	0.00707	* uncalibrated *
2.445	6520.85498	VVS	0.04	19	0.00792	* uncalibrated *
2.494	4154.15186	VVS	0.02	20	0.00505	* uncalibrated *
2.538	5641.59326	VVS	0.04	21	0.00685	* uncalibrated *
2.612	7028.38379	VVS	0.04	22	0.00854	* uncalibrated *
2.666	1741.94336	VVS	0.02	23	0.00212	* uncalibrated *
2.708	1182.29065	VVS	0.03	24	0.00144	* uncalibrated *
2.757	292.93268	VBAS	0.01	25	0.00036	* uncalibrated *

```
==================================================================
Injection Date  : 7/8/2005 4:32:56 PM          Seq. Line :  18
Sample Name     : 139162 x1 T                   Location : Vial 18
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    : 7/11/2005 11:25:13 AM by DCS
                  (modified after loading)
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/11/2005 11:25:11 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	3.893	VB	0.0376	3.82285	4.643e-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	9.563	BB	0.0384	3371.58350	0.00409	OTP
10	9.586		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	10.965	VP	0.0302	3.01189	3.658e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.399	BB	0.0364	2986.64697	0.00363	COD
14	11.870	VV	0.1018	25.74467	3.127e-5	tetracosane
15	12.633	VP	0.0556	8.56539	1.040e-5	hexacosane
16	13.348	VV	0.0597	8.55855	1.039e-5	octacosane
17	14.015	VP	0.0484	3.74193	4.545e-6	triacontane
18	16.215		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6411.67575 7.787e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0242	180.65900	0.00022	?
2	0.590	VV	0.0166	70.63283	8.579e-5	?
3	0.639	VV S	0.0128	5063.33301	0.00615	?
4	0.675	VV S	0.0166	2.30740e5	0.28024	?
5	1.840	VV S	0.9960	8.11426e7	98.54974	?
6	1.890	VV S	0.0177	8.42242e5	1.02292	?
7	1.954	VV S	0.0246	8485.89453	0.01031	?
8	1.982	VV S	0.0428	1.10271e4	0.01339	?
9	2.040	VV S	0.0459	1.03307e4	0.01255	?
10	2.095	VV S	0.0267	7660.25879	0.00930	?
11	2.126	VV S	0.0227	5049.89063	0.00613	?
12	2.161	VV S	0.0302	5794.08057	0.00704	?
13	2.192	VV S	0.0299	6121.10010	0.00743	?
14	2.231	VV S	0.0276	5157.17334	0.00626	?
15	2.263	VV S	0.0317	6535.27637	0.00794	?
16	2.311	VV S	0.0295	5878.74707	0.00714	?
17	2.351	VV S	0.0318	4897.35596	0.00595	?
18	2.395	VV S	0.0380	5820.01025	0.00707	?
19	2.445	VV S	0.0486	6520.85498	0.00792	?
20	2.494	VV S	0.0281	4154.15186	0.00505	?
21	2.538	VV S	0.0473	5641.59326	0.00685	?
22	2.612	VV S	0.0474	7028.38379	0.00854	?
23	2.666	VV S	0.0289	1741.94336	0.00212	?
24	2.708	VV S	0.0313	1182.29065	0.00144	?
25	2.757	VBAS	0.0124	292.93268	0.00036	?
26	2.940	BP	0.0150	1.08885	1.322e-6	?
27	3.479	VV	0.0232	18.16663	2.206e-5	?
28	3.558	VV	0.0343	11.01512	1.338e-5	?
29	3.637	VP	0.0438	3.82657	4.647e-6	?
30	4.393	VB	0.0297	2.41782	2.937e-6	?
31	11.761	BV	0.0524	5.07811	6.167e-6	?
32	12.250	VV	0.0557	9.88254	1.200e-5	?
33	12.993	VP	0.0532	9.43302	1.146e-5	?
34	13.687	VP	0.0604	7.63305	9.271e-6	?

Uncalib. totals : 8.23303e7 99.9922

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

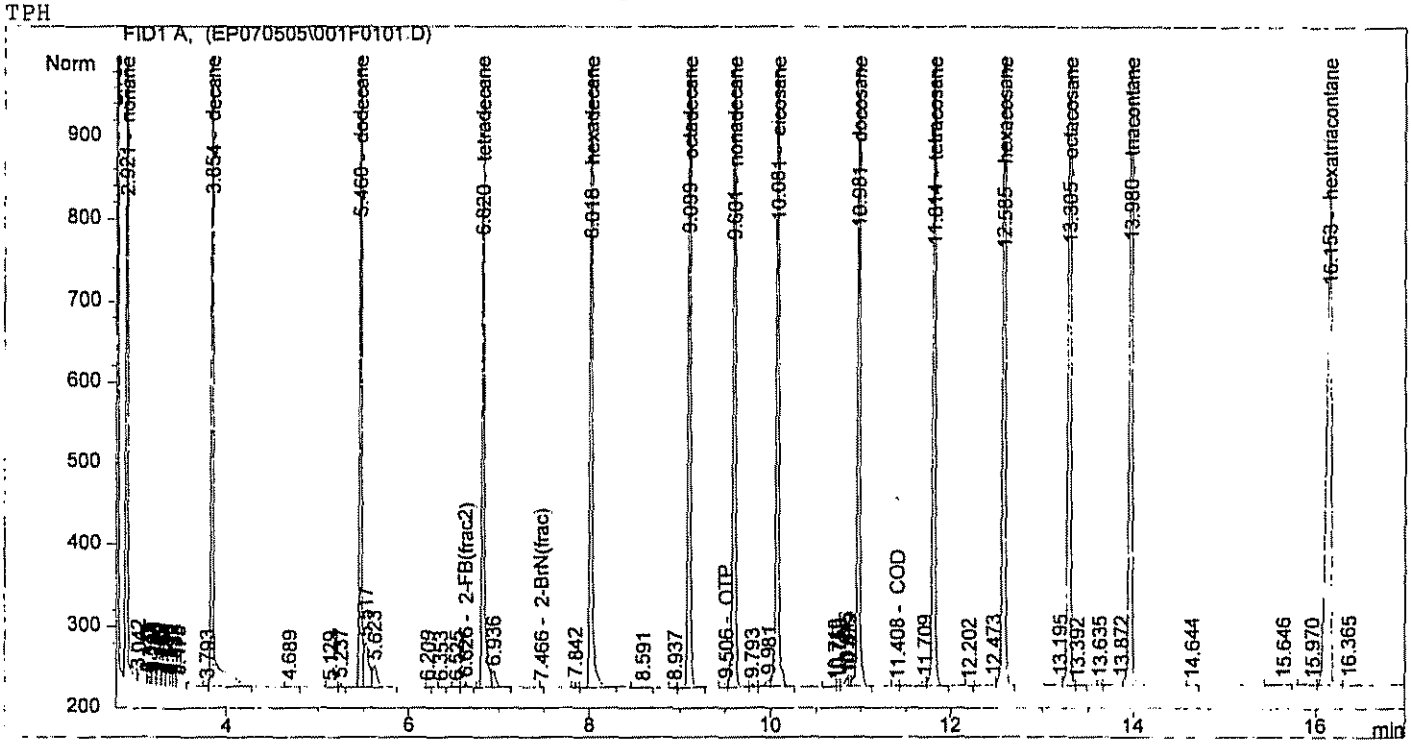
Calibration Check

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

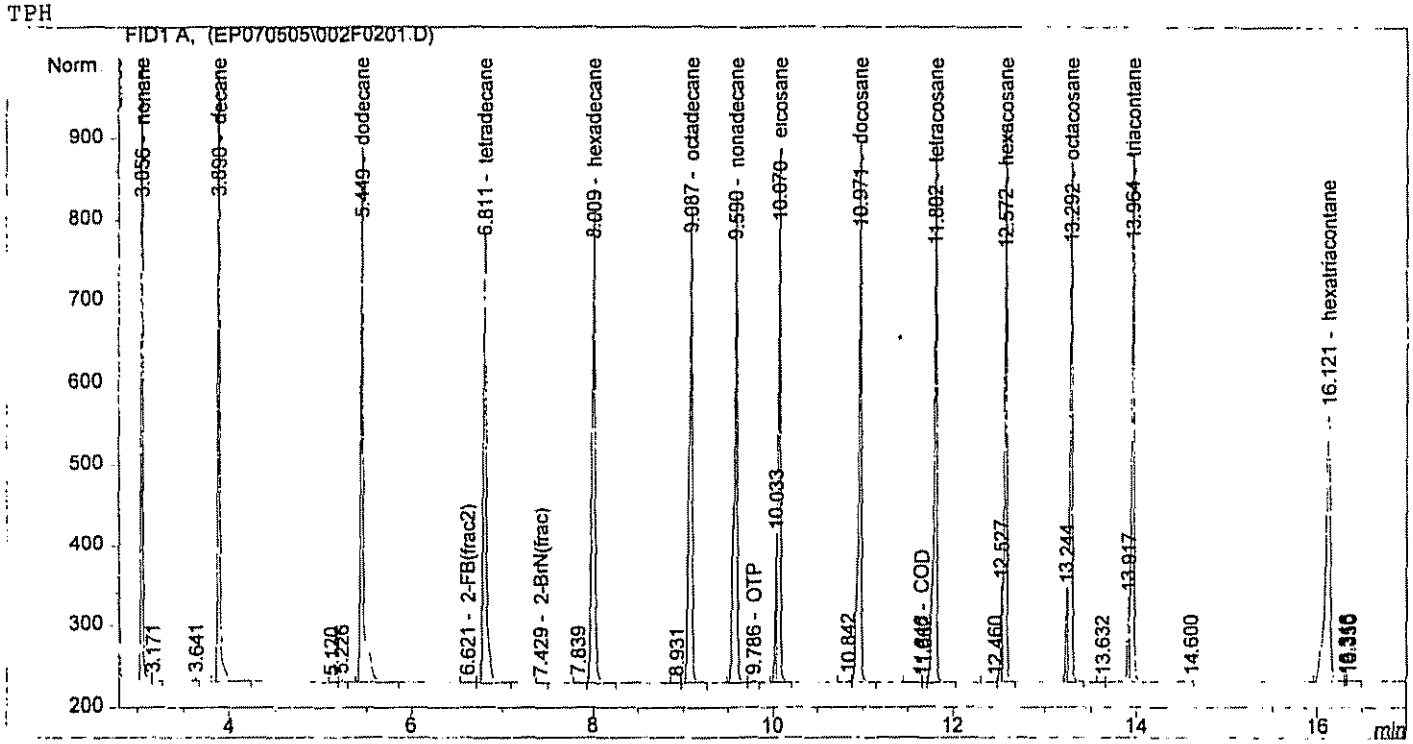
Results obtained with enhanced integrator!
1 Warnings or Errors :

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



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Area Percent Report

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```
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 :

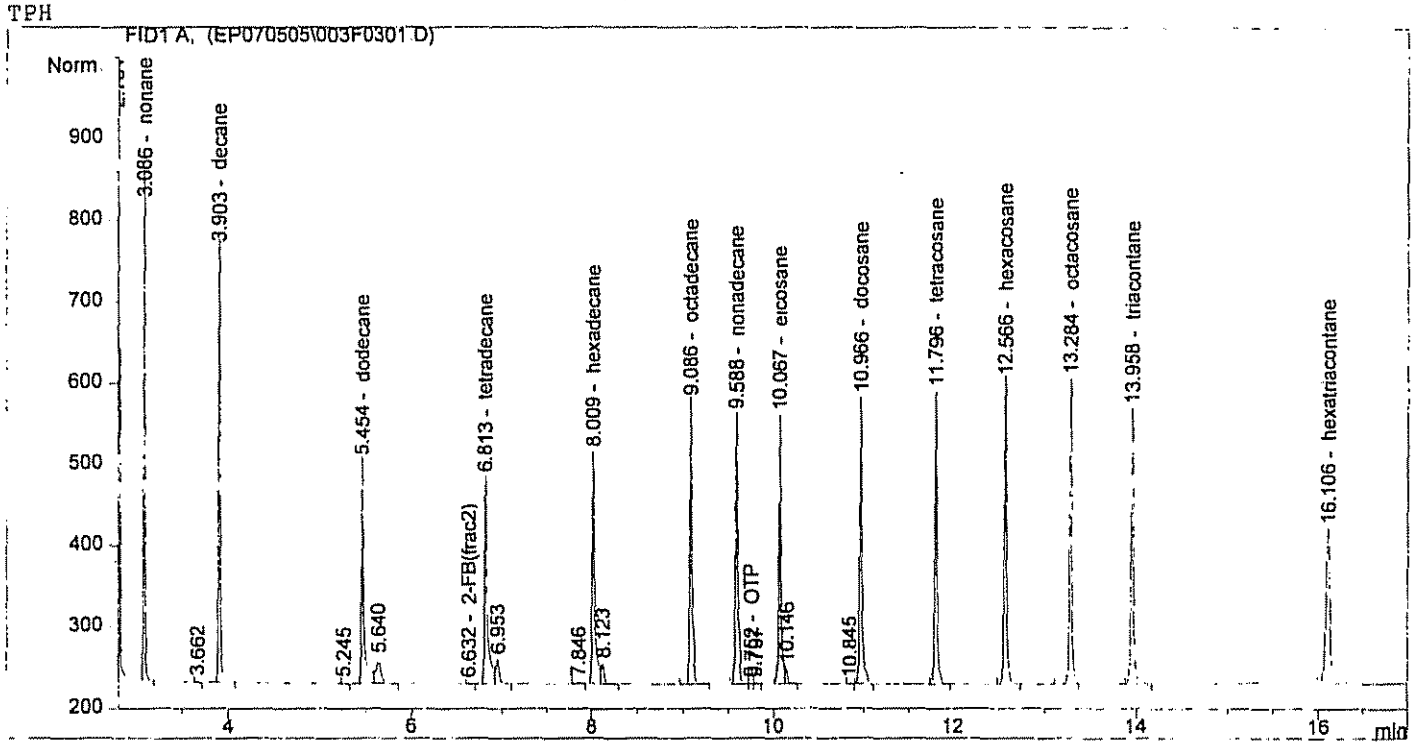
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** 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

*** 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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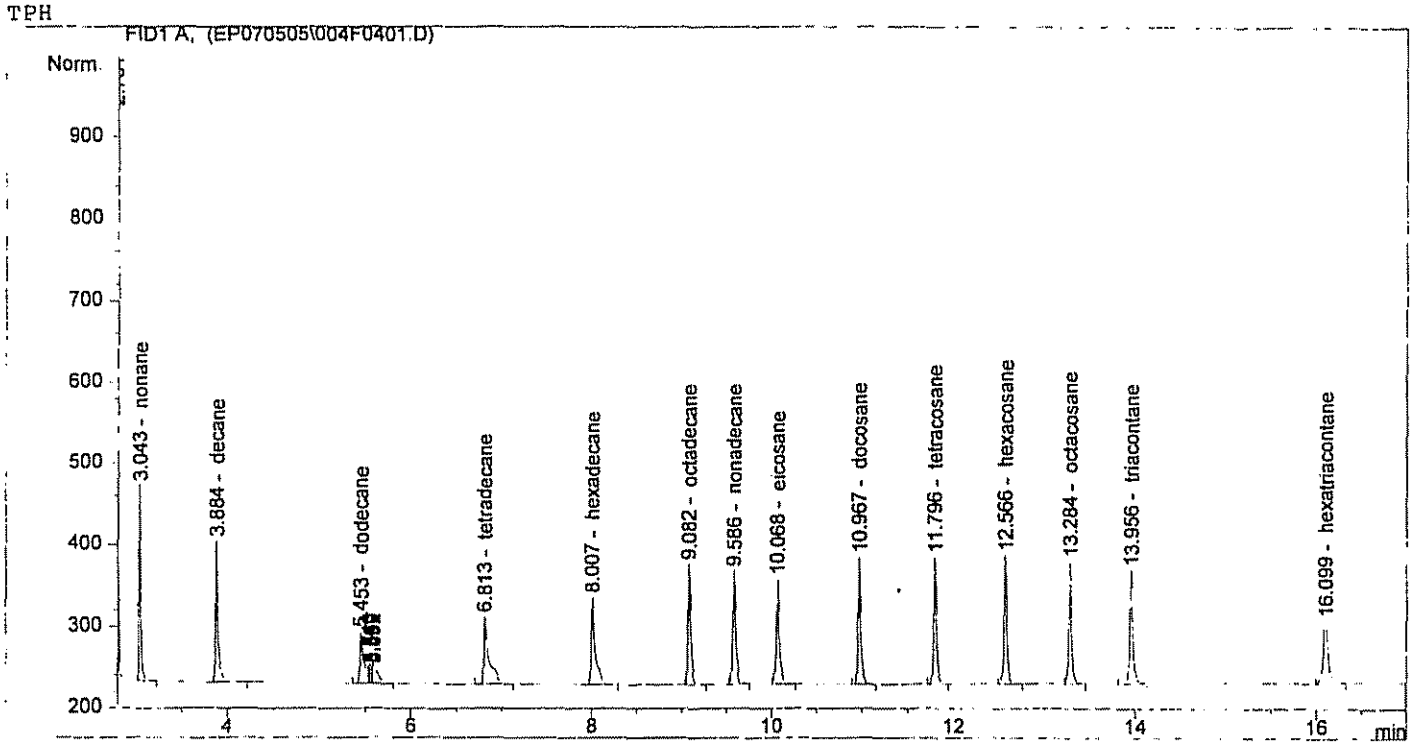
TPH




```
==========================================================================
                          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 :

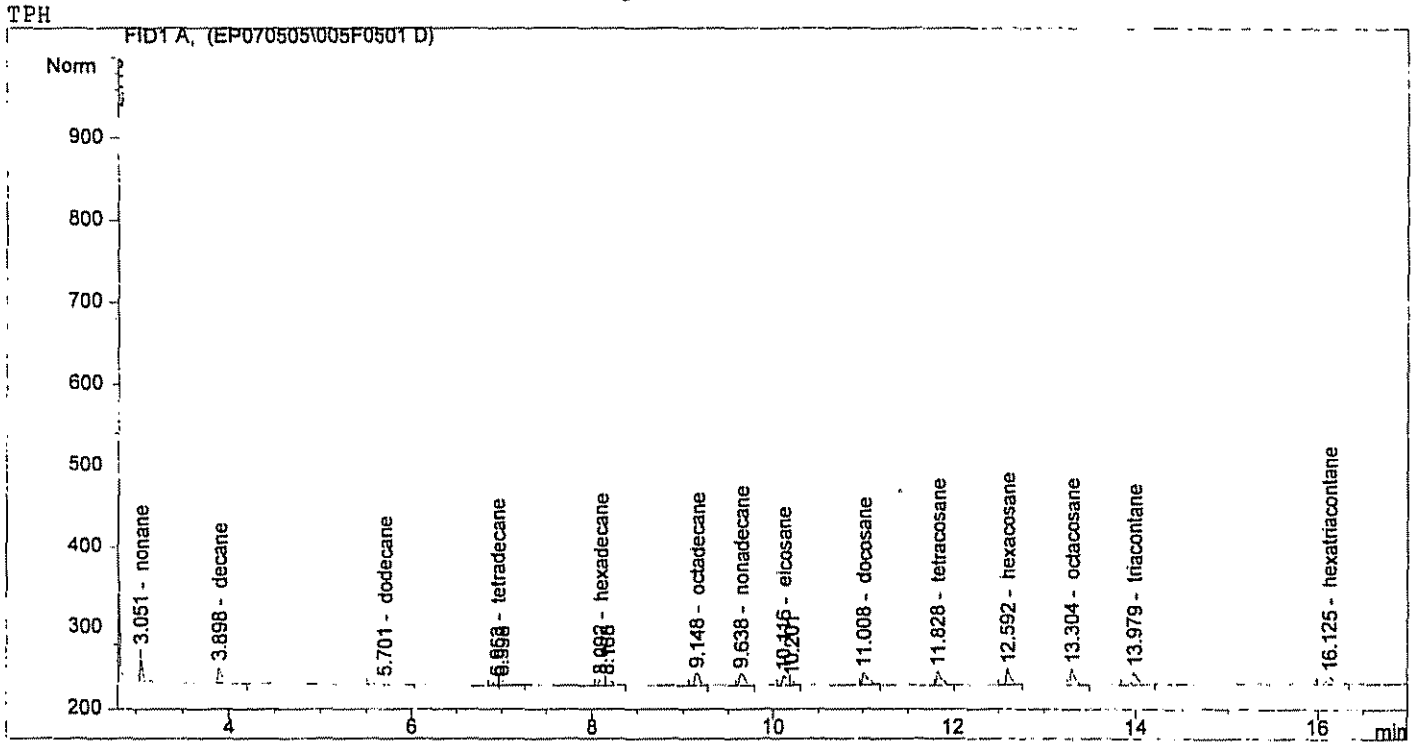
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** 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

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)
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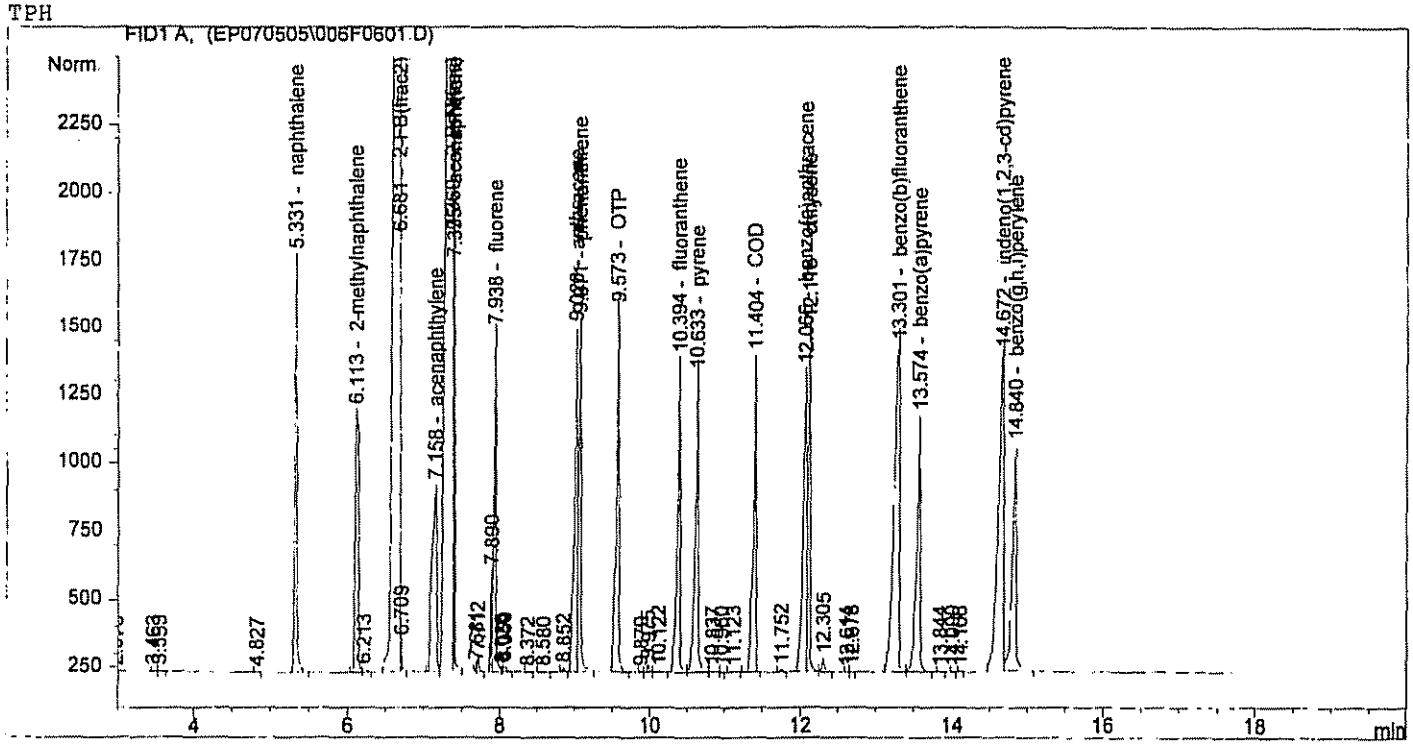
TPH




```
==========================================================================
                          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

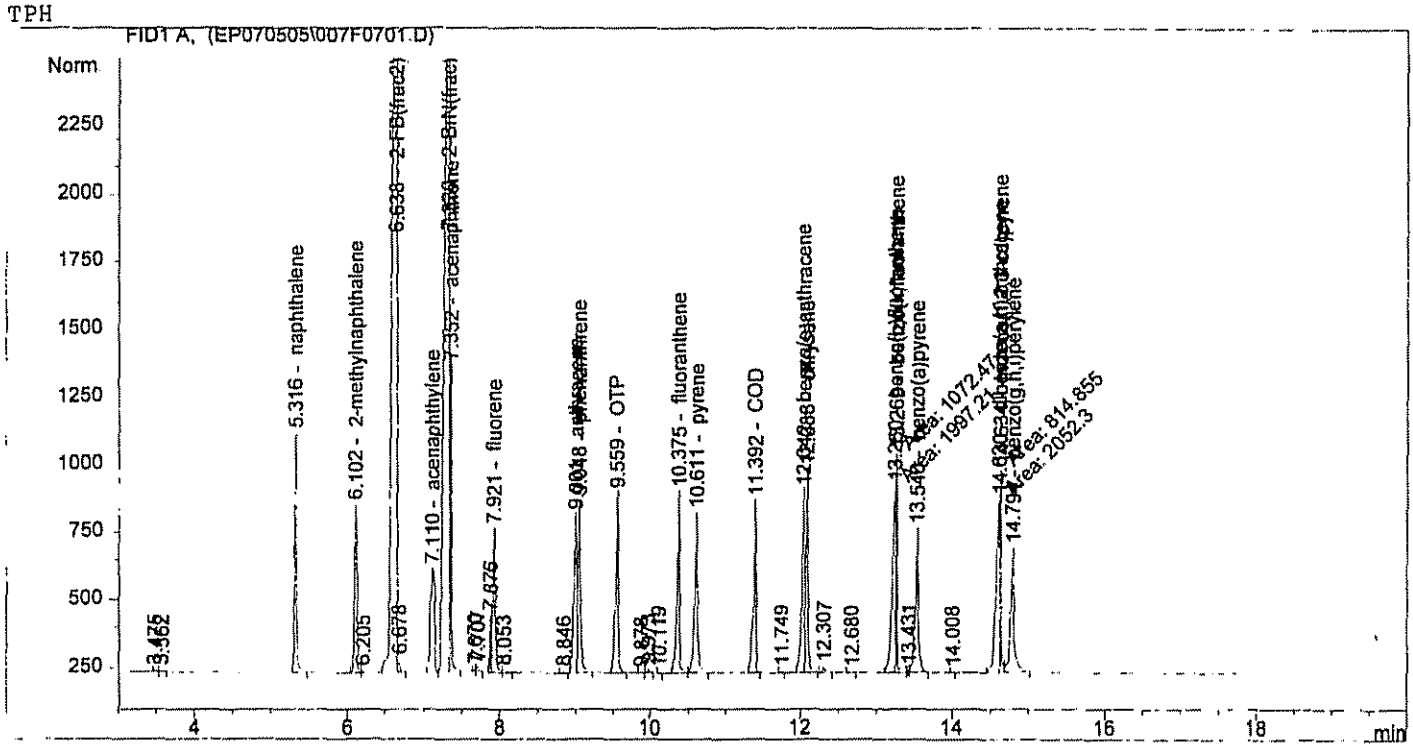
Results obtained with enhanced integrator!
3 Warnings or Errors :

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

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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)
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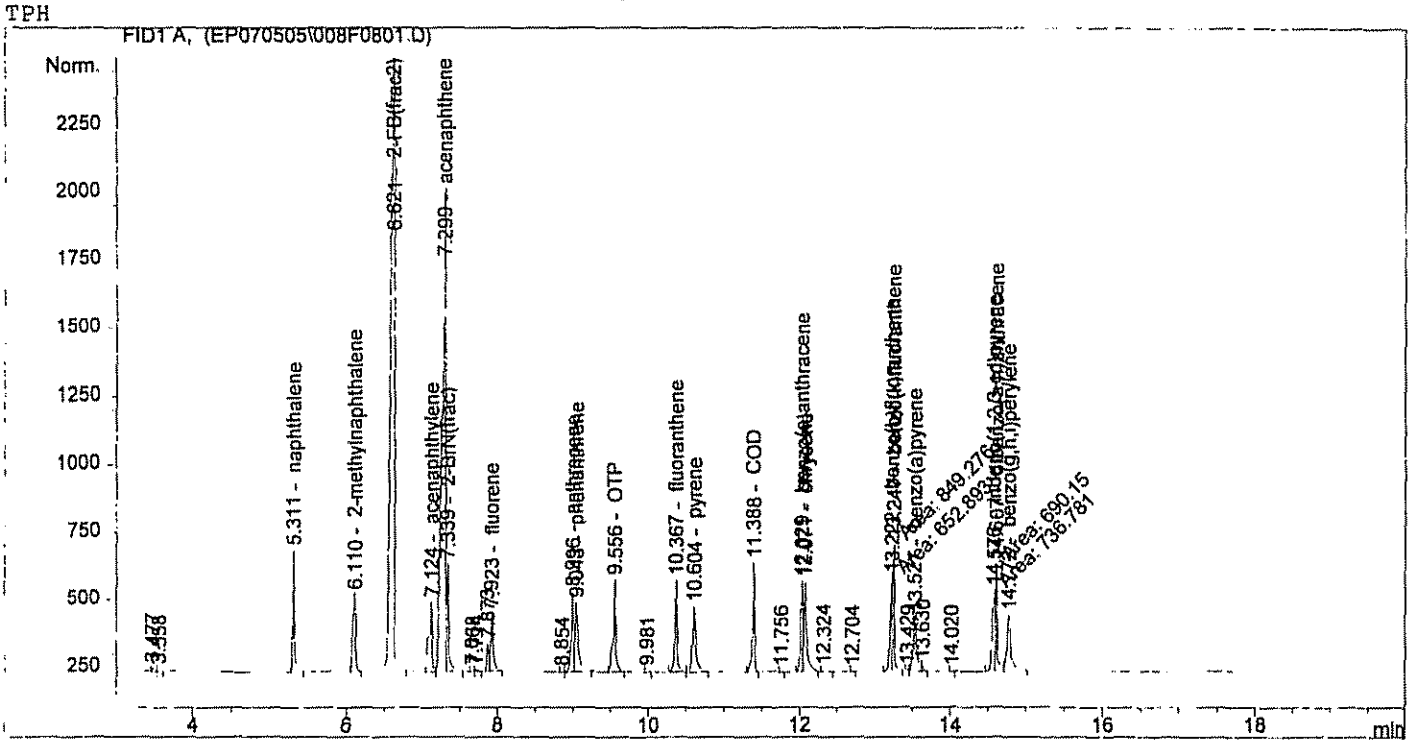
TPH




```
==================================================================
                        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  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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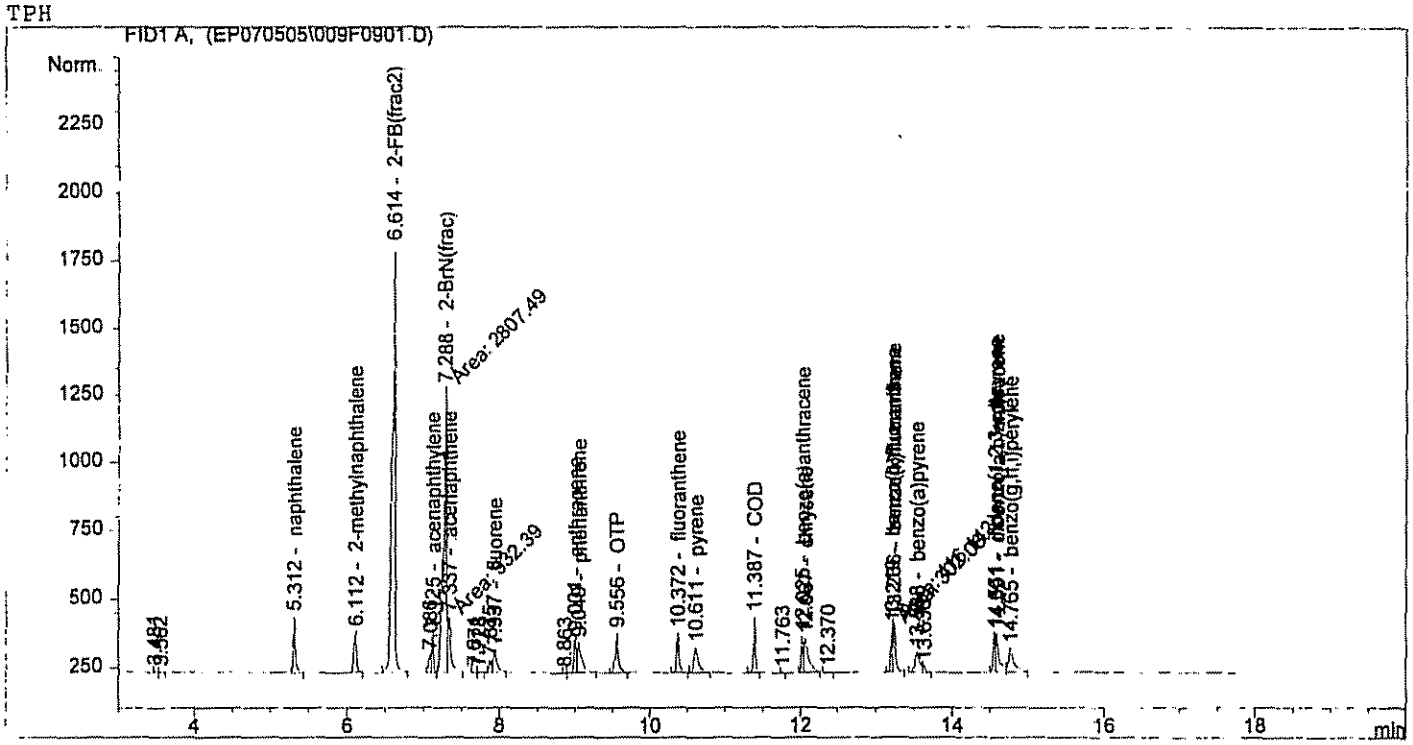
*** End of Report ***

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)
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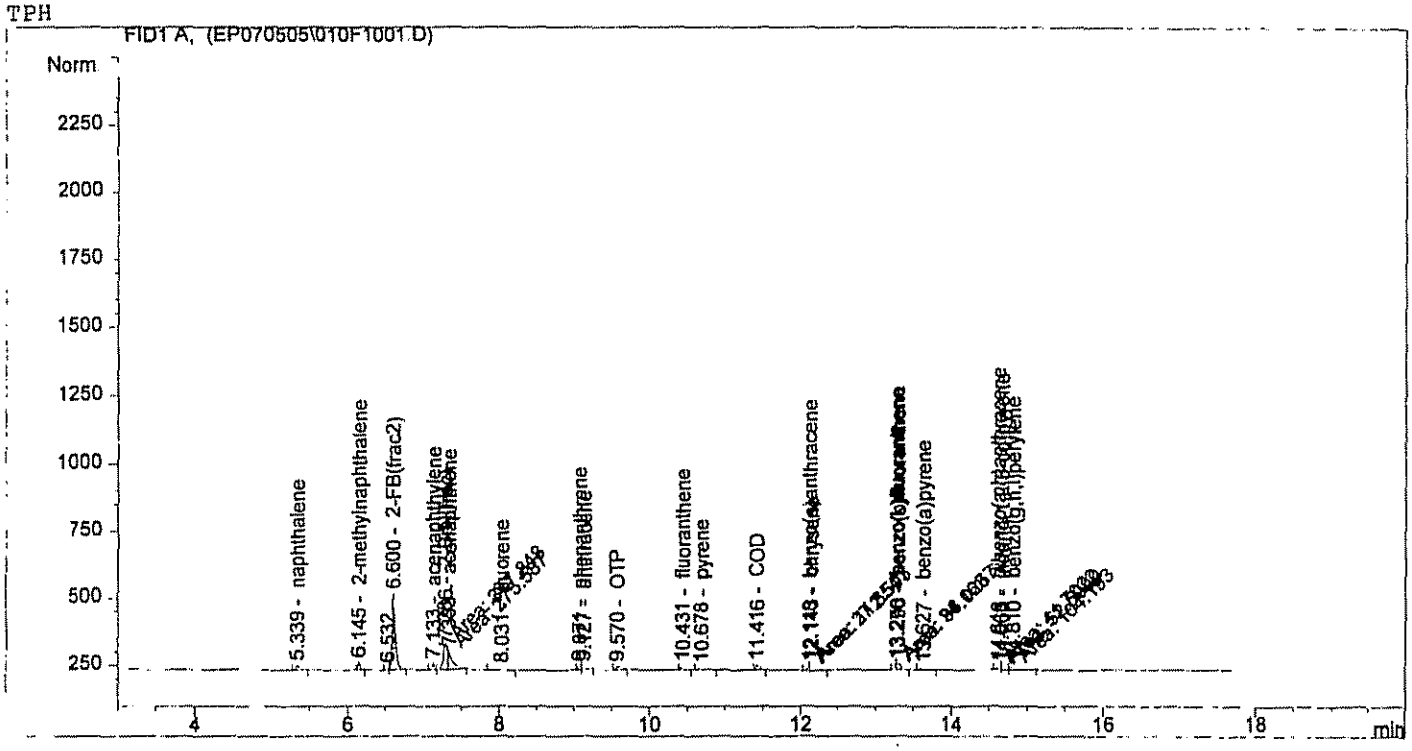
TPH



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	5.339	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

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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: 07/08/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	18.2
C_{19}-C_{36} Aliphatics	160	13.0
C_{11}-C_{22} Aromatics	340	-5.2

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  : 7/8/2005 8:53:10 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    : 7/8/2005 2:26:24 PM by DCS
                  (modified after loading)
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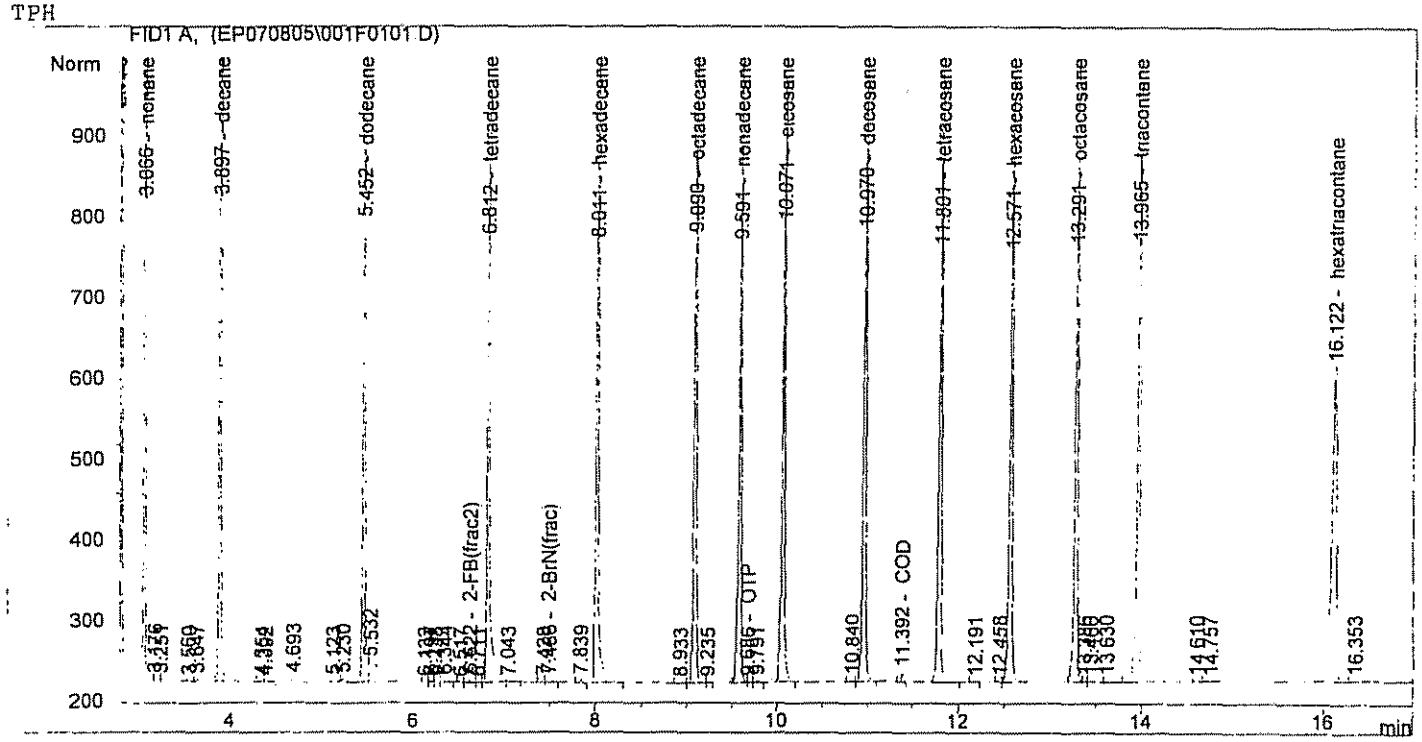
TPH

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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      7/8/2005 2:25:50 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	3.066	VV	0.0169	1319.76624	0.00175	nonane
2	3.897	VB	0.0179	1383.24524	0.00184	decane
3	5.452	VV	0.0223	1175.50598	0.00156	dodecane
4	6.622	VP	0.0260	7.76854	1.032e-5	2-FB(frac2)
5	6.812	VV	0.0273	1331.48303	0.00177	tetradecane
6	7.486	VB	0.0413	11.95660	1.588e-5	2-BrN(frac)
7	8.011	PB	0.0263	1332.80408	0.00177	hexadecane
8	9.090	VV	0.0249	1327.90027	0.00176	octadecane
9	9.591	VV	0.0253	1340.86804	0.00178	nonadecane
10	9.686	VV	0.0372	5.17154	6.870e-6	OTP
11	10.071	BB	0.0266	1323.79834	0.00176	eicosane
12	10.970	VB	0.0268	1326.19739	0.00176	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.392	VV	0.0257	21.44013	2.848e-5	COD
14	11.801	VB	0.0267	1336.54602	0.00178	tetracosane
15	12.571	VB	0.0259	1348.91016	0.00179	hexacosane
16	13.291	VV	0.0256	1355.46082	0.00180	octacosane
17	13.965	BB	0.0265	1364.37073	0.00181	triacontane
18	16.122	VV	0.0488	1335.48499	0.00177	hexatriacontane

Totals : 1.86487e4 2.477e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.525	PP	0.0217	1.69009	2.245e-6	?
2	1.704	VV S	0.9189	7.24097e7	96.18398	?
3	1.767	VV S	0.0189	8.89279e5	1.18126	?
4	1.823	VV S	0.0314	1.25581e5	0.16681	?
5	1.871	VV S	0.0400	1.31832e5	0.17512	?
6	1.907	VV S	0.0271	1.06297e5	0.14120	?
7	1.959	VV S	0.0545	1.72703e5	0.22941	?
8	2.024	VV S	0.0438	1.35777e5	0.18036	?
9	2.066	VV S	0.0324	1.08776e5	0.14449	?
10	2.108	VV S	0.0235	7.82295e4	0.10391	?
11	2.144	VV S	0.0336	8.68517e4	0.11537	?
12	2.173	VV S	0.0302	8.17493e4	0.10859	?
13	2.211	VV S	0.0195	6.42300e4	0.08532	?
14	2.243	VV S	0.0317	8.96300e4	0.11906	?
15	2.285	VV S	0.0270	7.28590e4	0.09678	?
16	2.312	VV S	0.0270	6.28003e4	0.08342	?
17	2.352	VV S	0.0284	5.91707e4	0.07860	?
18	2.392	VV S	0.0332	8.58522e4	0.11404	?
19	2.423	VV S	0.0213	5.08007e4	0.06748	?
20	2.454	VV S	0.0306	6.32928e4	0.08407	?
21	2.498	VV S	0.0345	6.92289e4	0.09196	?
22	2.539	VV S	0.0758	1.68561e5	0.22390	?
23	2.633	VV S	0.0256	5.88662e4	0.07819	?
24	2.669	VV S	0.0261	3.05253e4	0.04055	?
25	2.693	VV S	0.0309	2.65048e4	0.03521	?
26	2.732	VV S	0.0291	1.57935e4	0.02098	?
27	2.770	VBAS	0.0354	1.86132e4	0.02472	?
28	3.176	VV	0.0416	6.73996	8.953e-6	?
29	3.251	VV	0.0223	1.72805	2.295e-6	?
30	3.560	VP	0.0324	3.23790	4.301e-6	?
31	3.647	VP	0.0183	4.72454	6.276e-6	?
32	4.354	PV	0.0237	2.82315	3.750e-6	?
33	4.392	VP	0.0447	3.93445	5.226e-6	?
34	4.693	PV	0.0505	24.18271	3.212e-5	?
35	5.123	BV	0.0530	8.48340	1.127e-5	?
36	5.230	VP	0.0274	7.13050	9.472e-6	?
37	5.532	VB	0.0910	183.61371	0.00024	?
38	6.132	PV	0.0289	2.25342	2.993e-6	?
39	6.197	VV	0.0278	5.02303	6.672e-6	?
40	6.238	VV	0.0312	3.18190	4.227e-6	?
41	6.344	VP	0.0426	8.20496	1.090e-5	?
42	6.517	VV	0.0298	2.26474	3.008e-6	?
43	6.711	VV	0.0284	1.96157	2.606e-6	?
44	7.043	VB	0.0456	4.10875	5.458e-6	?
45	7.428	PV	0.0323	3.92067	5.208e-6	?
46	7.839	VB	0.0230	6.40588	8.509e-6	?
47	8.933	VP	0.0294	3.13449	4.164e-6	?
48	9.235	VB	0.0372	3.14058	4.172e-6	?
49	9.791	VP	0.0310	5.60783	7.449e-6	?
50	10.840	VP	0.0263	4.99052	6.629e-6	?
51	12.191	PV	0.0299	2.51920	3.346e-6	?

Data File C:\HPCHEM\1\DATA\EP070805\001F0101.D Sample Name: K 20 ccal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
52	12.458	VV	0.0308	2.79573	3.714e-6	?
53	13.386	VV	0.0290	4.52860	6.015e-6	?
54	13.460	VB	0.0489	4.56615	6.065e-6	?
55	13.630	BB	0.0274	3.39100	4.504e-6	?
56	14.610	VV	0.0380	3.90522	5.187e-6	?
57	14.757	VV	0.0521	4.42959	5.884e-6	?
58	16.353	VP	0.0889	14.15912	1.881e-5	?

Uncalib. totals : 7.52639e7 99.9752

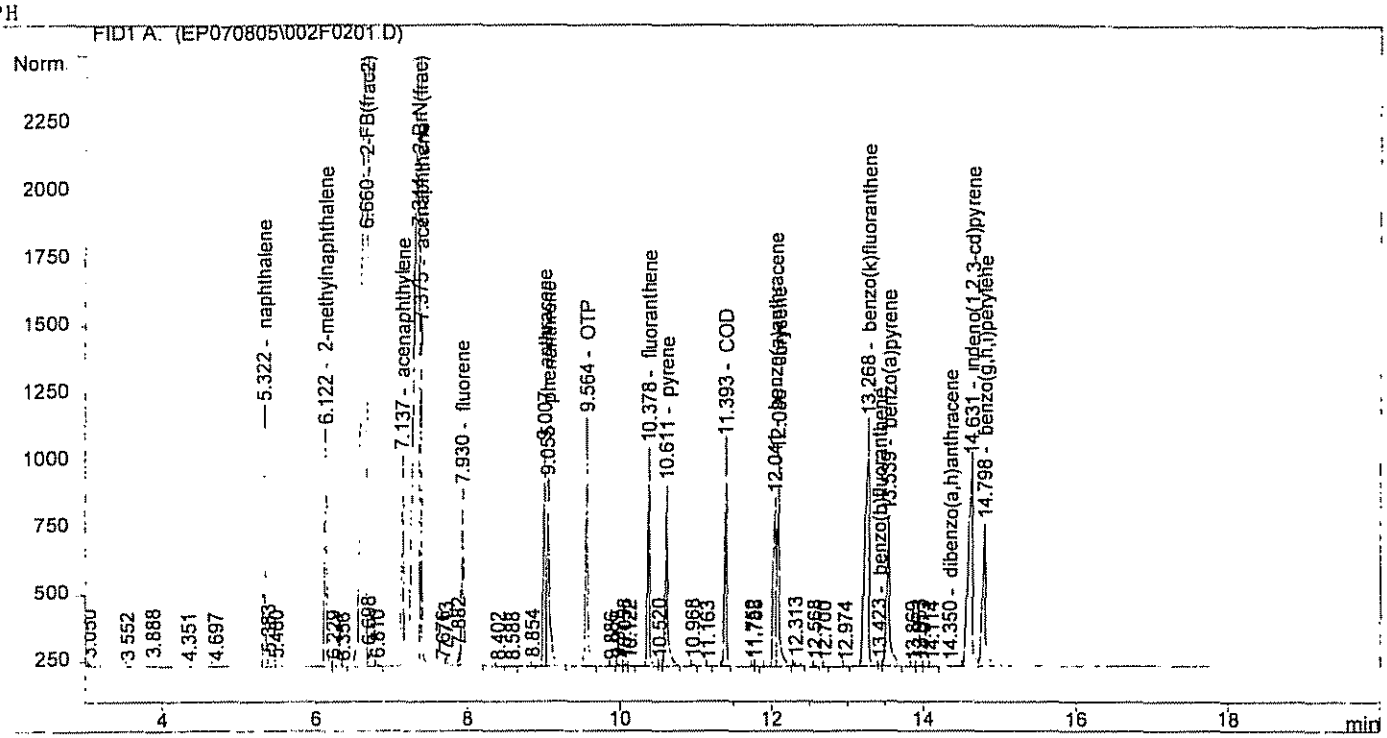
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

Injection Date	: 7/8/2005 9:20:50 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	: 7/8/2005 2:27:48 PM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/8/2005 2:27:42 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	5.322	BV	0.0231	1425.80859	0.00193	naphthalene
2	6.122	BV	0.0242	1458.18250	0.00198	2-methylnaphthalene
3	6.660	BV	0.0434	1.67606e4	0.02273	2-FB(frac2)
4	7.137	BP	0.0289	1478.28992	0.00200	acenaphthylene
5	7.344	VV	0.0427	1.16154e4	0.01575	2-BrN(frac)
6	7.375	VB	0.0156	1359.98889	0.00184	acenaphthene
7	7.930	VB	0.0292	1420.61841	0.00193	fluorene
8	9.007	BV	0.0249	1334.68164	0.00181	anthracene
9	9.055	VB	0.0325	1571.38635	0.00213	phenanthrene
10	9.564	BB	0.0274	1624.87671	0.00220	OTP
11	10.378	BV	0.0277	1443.40393	0.00196	fluoranthene
12	10.611	VB	0.0311	1512.16931	0.00205	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.393	BB	0.0247	1413.08252	0.00192	COD
14	12.041	BV	0.0306	1434.32349	0.00195	benzo(a)anthracene
15	12.086	VB	0.0271	1565.82092	0.00212	chrysene
16	13.268	PV	0.0433	3165.18213	0.00429	benzo(k)fluoranthene
17	13.423	VV	0.0309	20.79473	2.820e-5	benzo(b)fluoranthene
18	13.539	VB	0.0354	1503.11096	0.00204	benzo(a)pyrene
19	14.350	PB	0.0316	3.56379	4.833e-6	dibenzo(a,h)anthracene
20	14.631	BV	0.0503	3051.60034	0.00414	indeno(1,2,3-cd)pyrene
21	14.798	VB	0.0419	1590.92456	0.00216	benzo(g,h,i)perylene

Totals : 5.67538e4 7.697e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.537	BV	0.0218	47.21525	6.403e-5	?
2	0.646	VV S	0.0713	5.54802e5	0.75243	?
3	1.701	VV S	0.9075	7.13255e7	96.73200	?
4	1.810	VV S	0.0348	1.20317e5	0.16317	?
5	1.846	VV S	0.0283	9.79598e4	0.13285	?
6	1.896	VV S	0.0563	1.65684e5	0.22470	?
7	1.956	VV S	0.0372	1.34484e5	0.18239	?
8	2.013	VV S	0.0415	1.24184e5	0.16842	?
9	2.077	VV S	0.0409	1.11036e5	0.15059	?
10	2.123	VV S	0.0286	8.57123e4	0.11624	?
11	2.169	VV S	0.0733	1.58279e5	0.21466	?
12	2.253	VV S	0.0335	9.76235e4	0.13240	?
13	2.298	VV S	0.0334	8.86091e4	0.12017	?
14	2.337	VV S	0.0326	8.00141e4	0.10852	?
15	2.392	VV S	0.0533	1.04132e5	0.14123	?
16	2.451	VV S	0.0336	7.59837e4	0.10305	?
17	2.499	VV S	0.0429	8.81483e4	0.11955	?
18	2.558	VV S	0.0429	8.63705e4	0.11714	?
19	2.621	VV S	0.0423	8.55107e4	0.11597	?
20	2.669	VV S	0.0334	4.06027e4	0.05507	?
21	2.707	VV S	0.0274	2.35244e4	0.03190	?
22	2.764	VB S	0.0455	2.92224e4	0.03963	?
23	3.050	PB	0.0166	12.63341	1.713e-5	?
24	3.552	BP	0.0278	3.04285	4.127e-6	?
25	3.888	BB	0.0197	14.39569	1.952e-5	?
26	4.351	PB	0.0195	1.30323	1.767e-6	?
27	4.697	BP	0.0484	4.78719	6.492e-6	?
28	5.383	VV	0.0364	84.98678	0.00012	?
29	5.480	VB	0.0344	23.93178	3.246e-5	?
30	6.229	VP	0.0343	19.55365	2.652e-5	?
31	6.356	BP	0.0270	3.42098	4.640e-6	?
32	6.698	VB	0.0218	96.24105	0.00013	?
33	6.810	BB	0.0278	19.84129	2.691e-5	?
34	7.676	PV	0.0188	4.52338	6.135e-6	?
35	7.713	VB	0.0191	47.69567	6.469e-5	?
36	7.882	PV	0.0205	72.40391	9.819e-5	?
37	8.402	BB	0.0346	5.49109	7.447e-6	?
38	8.588	PB	0.0283	5.11354	6.935e-6	?
39	8.854	BB	0.0182	14.67584	1.990e-5	?
40	9.886	PB	0.0225	4.17281	5.659e-6	?
41	9.975	PV	0.0259	19.83724	2.690e-5	?
42	10.058	VV	0.0245	15.56659	2.111e-5	?
43	10.122	VB	0.0279	6.74971	9.154e-6	?
44	10.520	VV	0.0299	23.41678	3.176e-5	?
45	10.968	BB	0.0253	14.69968	1.994e-5	?
46	11.163	BB	0.0250	4.01063	5.439e-6	?
47	11.752	PV	0.0212	12.28630	1.666e-5	?
48	11.788	VP	0.0254	14.09152	1.911e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	12.313	BP	0.0581	67.79007	9.194e-5	?
50	12.568	PB	0.0244	13.86847	1.881e-5	?
51	12.700	PB	0.0212	4.78610	6.491e-6	?
52	12.974	BB	0.0300	3.09598	4.199e-6	?
53	13.869	PV	0.0274	2.94098	3.989e-6	?
54	13.953	VV	0.0307	18.73054	2.540e-5	?
55	14.013	VP	0.0217	3.35235	4.546e-6	?
56	14.114	BP	0.0262	2.07682	2.817e-6	?

Uncalib. totals : 7.36784e7 99.9230

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 ***

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 07/12/05

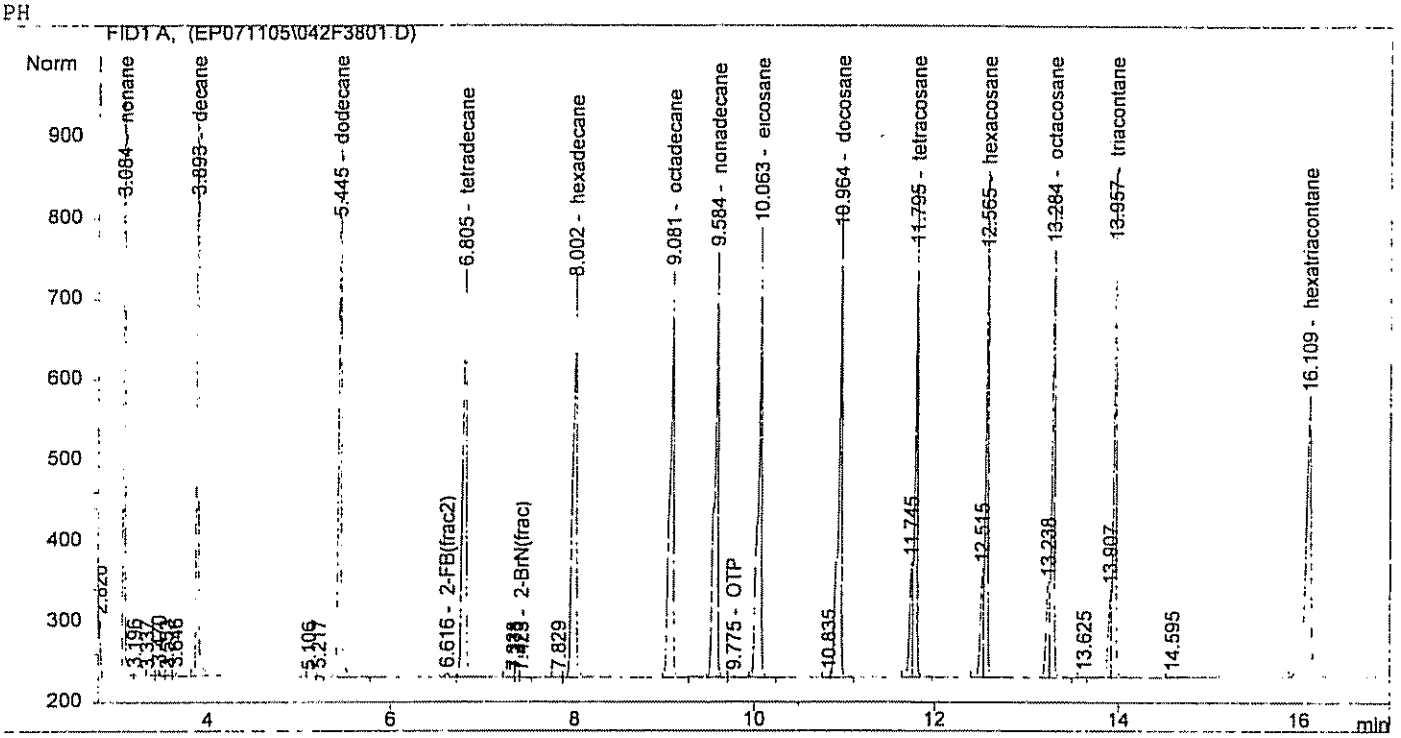
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	21.1
C_{19}-C_{36} Aliphatics	160	3.4
C_{11}-C_{22} Aromatics	340	6.6

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

Injection Date	: 7/12/2005 4:52:22 AM	Seq. Line	: 38
Sample Name	: K 20 ccal	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\EPHTK_F.M		
Last changed	: 7/12/2005 8:10:32 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 7/12/2005 8:09:55 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	3.084	VV	0.0163	1339.66174	0.00168	nonane
2	3.893	BB	0.0185	1337.87634	0.00168	decane
3	5.445	VB	0.0308	1356.41431	0.00170	dodecane
4	6.616	VV	0.0456	15.70759	1.970e-5	2-FB(frac2)
5	6.805	VB	0.0353	1350.62354	0.00169	tetradecane
6	7.423	VP	0.0354	3.16664	3.972e-6	2-BrN(frac)
7	8.002	VV	0.0373	1356.44775	0.00170	hexadecane
8	9.081	VV	0.0366	1365.08557	0.00171	octadecane
9	9.584	VV	0.0352	1367.49268	0.00172	nonadecane
10	9.775	VB	0.0496	6.67363	8.372e-6	OTP
11	10.063	BB	0.0336	1367.44934	0.00172	eicosane
12	10.964	VB	0.0332	1361.62195	0.00171	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.795	VB	0.0264	1062.95374	0.00133	tetracosane
15	12.565	VB	0.0255	1074.81909	0.00135	hexacosane
16	13.284	VB	0.0283	1085.38135	0.00136	octacosane
17	13.957	VB	0.0269	1127.70374	0.00141	triacontane
18	16.109	VB	0.0559	1306.72559	0.00164	hexatriacontane

Totals : 1.78858e4 2.244e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.543	VV	0.0196	90.21911	0.00011	?
2	0.590	VV	0.0194	25.00003	3.136e-5	?
3	0.699	VV S	0.0348	8.94193e5	1.12175	?
4	1.798	VV S	0.6804	7.78984e7	97.72190	?
5	1.864	VV S	0.0166	7.72293e5	0.96883	?
6	1.953	VV S	0.1178	3.27776e4	0.04112	?
7	2.060	VV S	0.0410	1.11047e4	0.01393	?
8	2.111	VV S	0.0557	1.20882e4	0.01516	?
9	2.163	VV S	0.0400	9459.03809	0.01187	?
10	2.224	VV S	0.0367	8306.14063	0.01042	?
11	2.274	VV S	0.0322	7746.94629	0.00972	?
12	2.326	VV S	0.0374	7424.34424	0.00931	?
13	2.373	VV S	0.0399	7279.86914	0.00913	?
14	2.424	VV S	0.0315	6300.86963	0.00790	?
15	2.471	VV S	0.0362	6069.77051	0.00761	?
16	2.515	VV S	0.0248	4365.22949	0.00548	?
17	2.557	VV S	0.0361	4785.86621	0.00600	?
18	2.597	VV S	0.0302	4953.95117	0.00621	?
19	2.638	VV S	0.0299	4124.67236	0.00517	?
20	2.683	VV S	0.0367	2123.94043	0.00266	?
21	2.742	VBAS	0.0500	1385.69556	0.00174	?
22	2.820	BP	5.93e-3	8.74912	1.098e-5	?
23	3.196	VV	0.0403	6.81003	8.543e-6	?
24	3.337	VP	0.0198	1.48822	1.867e-6	?
25	3.470	BV	0.0172	7.78520	9.766e-6	?
26	3.553	VV	0.0286	3.80238	4.770e-6	?
27	3.646	VB	0.0182	4.83977	6.071e-6	?
28	5.106	BB	0.0419	3.74908	4.703e-6	?
29	5.217	BP	0.0263	6.37449	7.997e-6	?
30	7.338	PV	0.0329	3.31958	4.164e-6	?
31	7.373	VV	0.0394	4.13824	5.191e-6	?
32	7.829	VP	0.0413	6.90223	8.659e-6	?
33	10.835	VV	0.0352	7.35927	9.232e-6	?
34	11.745	VV	0.0307	302.89468	0.00038	?
35	12.515	VV	0.0325	295.54276	0.00037	?
36	13.238	VV	0.0378	280.90540	0.00035	?
37	13.625	BP	0.0313	2.66820	3.347e-6	?
38	13.907	VV	0.0312	235.49156	0.00030	?
39	14.595	BP	0.0331	2.49309	3.128e-6	?

Uncalib. totals : 7.96965e7 99.9776

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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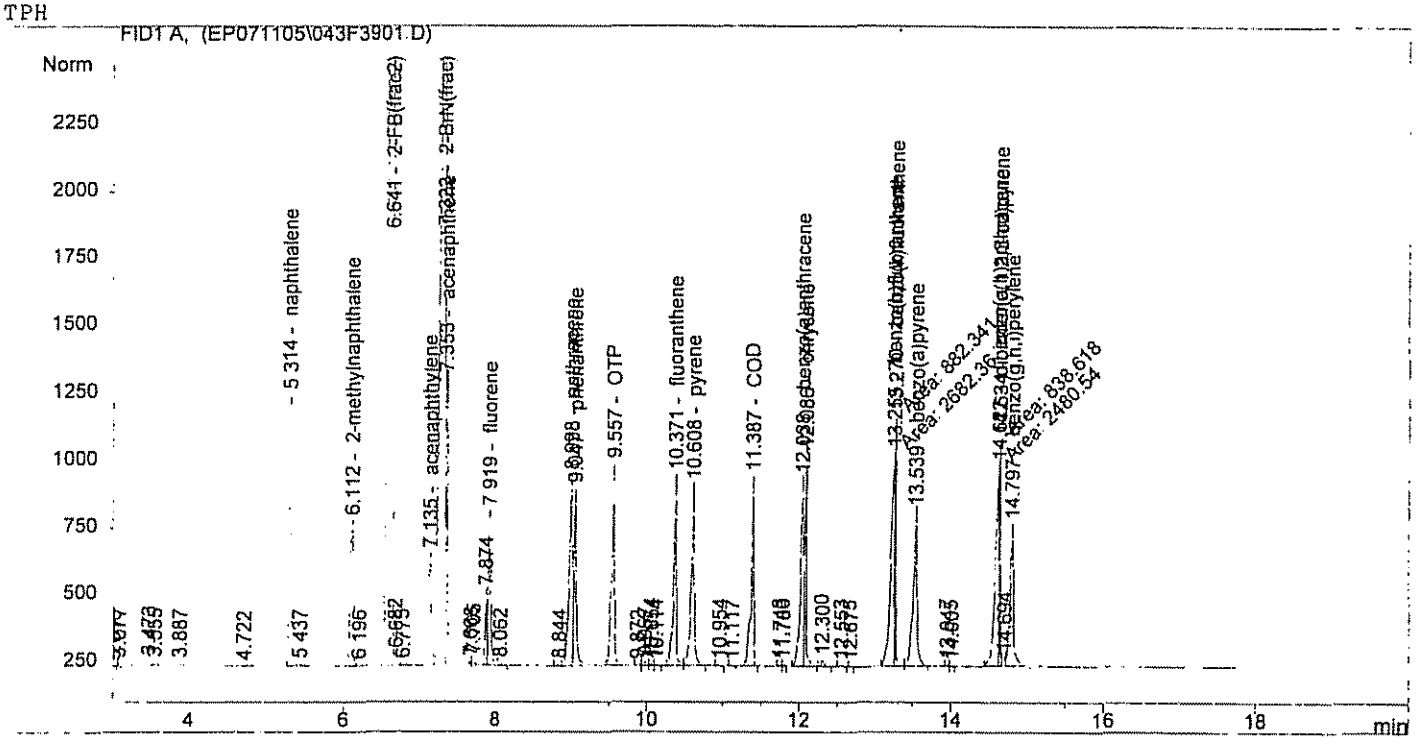
*** End of Report ***

Injection Date	: 7/12/2005 5:19:41 AM	Seq. Line	: 39
Sample Name	: R 20 ccal	Location	: Vial 43
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	: 7/11/2005 3:14:52 PM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	7/12/2005 8:06:31 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	5.314	BV	0.0268	1799.87012	0.00227	naphthalene
2	6.112	BV	0.0418	1713.39734	0.00216	2-methylnaphthalene
3	6.641	BV	0.0523	1.96321e4	0.02480	2-FB(frac2)
4	7.135	PV	0.0549	1709.02014	0.00216	acenaphthylene
5	7.322	VV	0.0541	1.38899e4	0.01754	2-BrN(frac)
6	7.353	VB	0.0194	1399.17737	0.00177	acenaphthene
7	7.919	VV	0.0307	1215.61890	0.00154	fluorene
8	8.998	VV	0.0383	1964.13184	0.00248	anthracene
9	9.047	VB	0.0314	1437.75085	0.00182	phenanthrene
10	9.557	PB	0.0347	1906.95422	0.00241	OTP
11	10.371	BV	0.0353	1715.87866	0.00217	fluoranthene
12	10.608	VB	0.0363	1803.66553	0.00228	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.387	BB	0.0333	1650.41455	0.00208	COD
14	12.038	BV	0.0427	1956.74390	0.00247	benzo(a)anthracene
15	12.086	VB	0.0291	1500.13367	0.00189	chrysene
16	13.255	MF	0.0563	2682.36499	0.00339	benzo(b)fluoranthene
17	13.270	FM	0.0158	882.34113	0.00111	benzo(k)fluoranthene
18	13.539	VB	0.0425	1700.59070	0.00215	benzo(a)pyrene
19	14.622	MF	0.0553	2480.53833	0.00313	dibenzo(a,h)anthracene
20	14.634	FM	0.0166	838.61798	0.00106	indeno(1,2,3-cd)pyrene
21	14.797	VB	0.0422	1731.60657	0.00219	benzo(g,h,i)perylene

Totals : 6.56109e4 8.287e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.569	BV S	0.0122	2021.28687	0.00255	?
2	0.606	VV S	0.0162	6.62774e4	0.08371	?
3	0.686	VV S	0.0338	6.77472e5	0.85569	?
4	1.831	VV S	0.9652	7.74415e7	97.81377	?
5	1.864	VV S	0.0168	7.69797e5	0.97230	?
6	1.915	VV S	0.0365	1.37390e4	0.01735	?
7	1.961	VV S	0.0275	8512.00293	0.01075	?
8	2.003	VV S	0.0418	1.34920e4	0.01704	?
9	2.052	VV S	0.0396	1.06904e4	0.01350	?
10	2.108	VV S	0.0327	9961.18555	0.01258	?
11	2.141	VV S	0.0287	6331.38965	0.00800	?
12	2.182	VV S	0.0364	8851.86133	0.01118	?
13	2.226	VV S	0.0398	9514.15137	0.01202	?
14	2.280	VV S	0.0354	7973.77051	0.01007	?
15	2.328	VV S	0.0443	8700.89453	0.01099	?
16	2.387	VV S	0.0440	9478.66992	0.01197	?
17	2.439	VV S	0.0575	9678.16016	0.01222	?
18	2.514	VV S	0.0499	8717.87500	0.01101	?
19	2.573	VV S	0.0416	7989.61182	0.01009	?
20	2.637	VV S	0.0385	6758.69043	0.00854	?
21	2.675	VV S	0.0321	3597.79785	0.00454	?
22	2.725	VV S	0.0329	2541.04150	0.00321	?
23	2.764	VB S	0.0348	2016.67224	0.00255	?
24	2.929	PB	0.0170	1.30690	1.651e-6	?
25	3.016	BB	0.0182	1.32190	1.670e-6	?
26	3.077	BB	0.0167	10.68007	1.349e-5	?
27	3.473	PB	0.0189	21.87812	2.763e-5	?
28	3.555	BB	0.0222	12.76144	1.612e-5	?
29	3.887	BB	0.0216	11.69459	1.477e-5	?
30	4.722	BB	0.0458	5.75494	7.269e-6	?
31	5.437	VB	0.0395	23.63944	2.986e-5	?
32	6.196	VB	0.0496	26.16681	3.305e-5	?
33	6.682	VV	0.0326	108.88713	0.00014	?
34	6.775	VB	0.0655	28.32446	3.578e-5	?
35	7.668	PV	0.0282	23.25413	2.937e-5	?
36	7.705	VB	0.0264	41.16413	5.199e-5	?
37	7.874	BV	0.0284	507.55905	0.00064	?
38	8.062	VB	0.0425	30.85287	3.897e-5	?
39	8.844	BP	0.0355	17.05848	2.155e-5	?
40	9.872	PB	0.0323	5.99955	7.578e-6	?
41	9.967	BV	0.0319	29.14946	3.682e-5	?
42	10.054	VV	0.0313	14.94024	1.887e-5	?
43	10.114	VP	0.0288	4.63547	5.855e-6	?
44	10.954	BP	0.0295	12.59353	1.591e-5	?
45	11.117	BP	0.0319	3.26330	4.122e-6	?
46	11.743	BV	0.0285	14.62503	1.847e-5	?
47	11.786	VB	0.0248	9.64204	1.218e-5	?
48	12.300	BB	0.0460	79.89489	0.00010	?

Data File C:\HPCHEM\1\DATA\EP071105\043F3901.D Sample Name: R 20 ccal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
49	12.553	BB	0.0303	13.39580	1.692e-5	?
50	12.675	BB	0.0284	4.38421	5.538e-6	?
51	13.947	BP	0.0242	10.42555	1.317e-5	?
52	14.005	VP	0.0226	3.03459	3.833e-6	?
53	14.694	VV	0.0353	85.80957	0.00011	?

Uncalib. totals : 7.91068e7 99.9171

Results obtained with enhanced integrator!
2 Warnings or Errors :

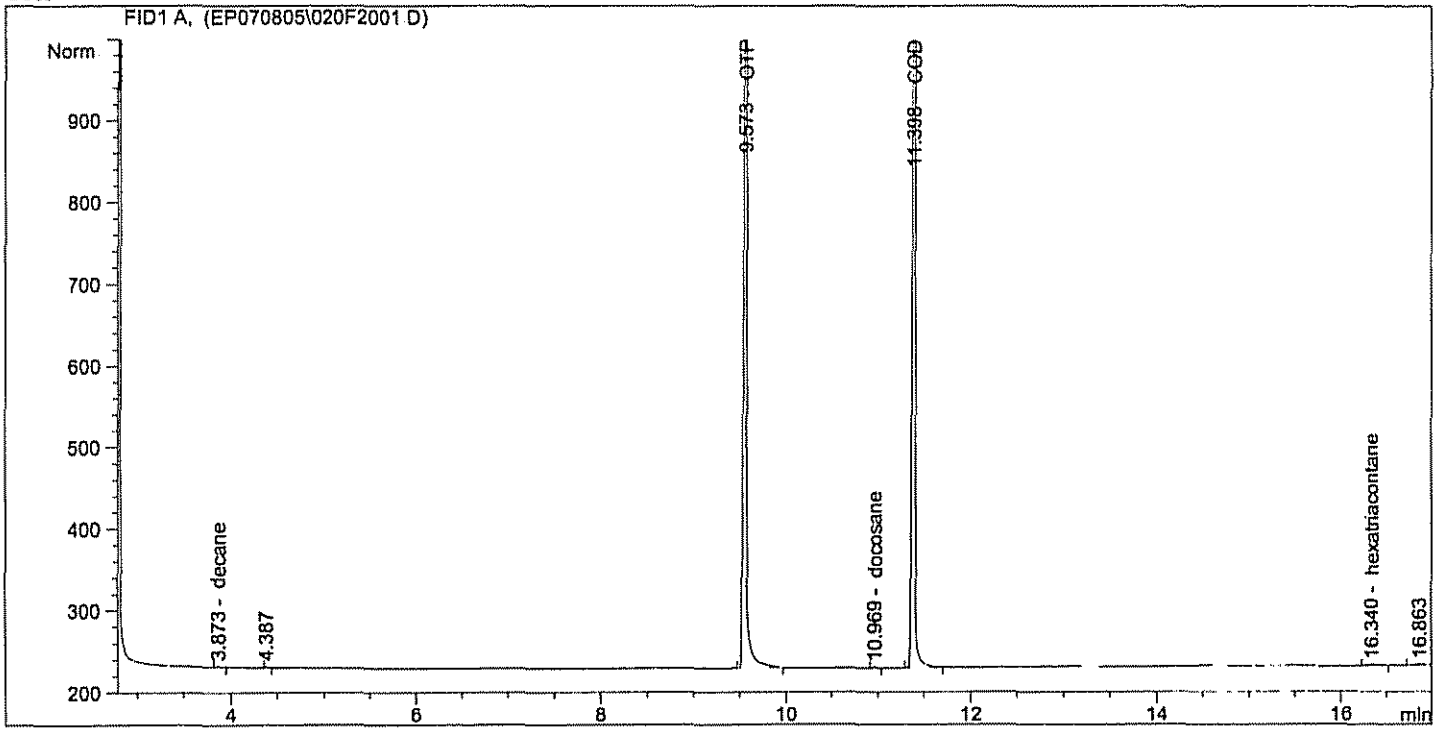
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

*** End of Report ***

EPH QC, Blanks Raw Data

```
=====================================================================
Injection Date  : 7/8/2005 5:27:22 PM          Seq. Line :  20
Sample Name     : pb3191 x1 T                   Location : Vial 20
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    : 9/16/2005 9:37:50 AM by DCS
                  (modified after loading)
```

TPH




```
=====================================================================
                          Area Percent Report
=====================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/15/2005 1:41:18 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	3.072		0.0000	0.00000	0.00000	nonane
2	3.873	PB	0.0305	2.79600	4.383e-6	decane
3	5.410		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	9.551		0.0000	0.00000	0.00000	nonadecane
10	9.573	VB	0.0245	2911.61450	0.00456	OTP
11	10.154		0.0000	0.00000	0.00000	eicosane
12	10.969	BP	0.0298	2.43296	3.814e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.398	BB	0.0339	2614.91479	0.00410	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.340	PB	0.1079	12.10227	1.897e-5	hexatriacontane

Totals : 5543.86053 8.691e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.513	VV S	0.7805	6.06397e7	95.06128	?
2	1.669	VV S	0.0451	2.82663e5	0.44311	?
3	1.711	VV S	0.0307	1.70026e5	0.26654	?
4	1.744	VV S	0.0224	1.15613e5	0.18124	?
5	1.777	VV S	0.0384	1.79561e5	0.28149	?
6	1.834	VV S	0.0405	2.08483e5	0.32683	?
7	1.886	VV S	0.0340	1.81144e5	0.28397	?
8	1.934	VV S	0.0264	1.38195e5	0.21664	?
9	1.979	VV S	0.0339	1.48987e5	0.23356	?
10	2.016	VV S	0.0303	1.33392e5	0.20911	?
11	2.065	VV S	0.0348	1.58701e5	0.24879	?
12	2.108	VV S	0.0272	1.19060e5	0.18664	?
13	2.157	VV S	0.0459	1.61509e5	0.25319	?
14	2.209	VV S	0.0344	1.12208e5	0.17590	?
15	2.241	VV S	0.0310	9.13251e4	0.14316	?
16	2.276	VV S	0.0251	1.02187e5	0.16019	?
17	2.337	VV S	0.0476	1.33180e5	0.20878	?
18	2.382	VV S	0.0511	1.32262e5	0.20734	?
19	2.458	VV S	0.0449	1.28705e5	0.20176	?
20	2.498	VV S	0.0330	8.52656e4	0.13367	?
21	2.524	VV S	0.0235	5.19851e4	0.08149	?
22	2.561	VV S	0.0330	1.14918e5	0.18015	?
23	2.617	VV S	0.0368	9.04894e4	0.14185	?
24	2.650	VV S	0.0200	5.19276e4	0.08140	?
25	2.683	VV S	0.0444	4.30708e4	0.06752	?
26	2.761	VBAS	0.0215	9996.39258	0.01567	?
27	4.387	VP	0.0236	2.39656	3.757e-6	?
28	16.863	PB	0.1268	14.30658	2.243e-5	?

Uncalib. totals : 6.37846e7 99.9913

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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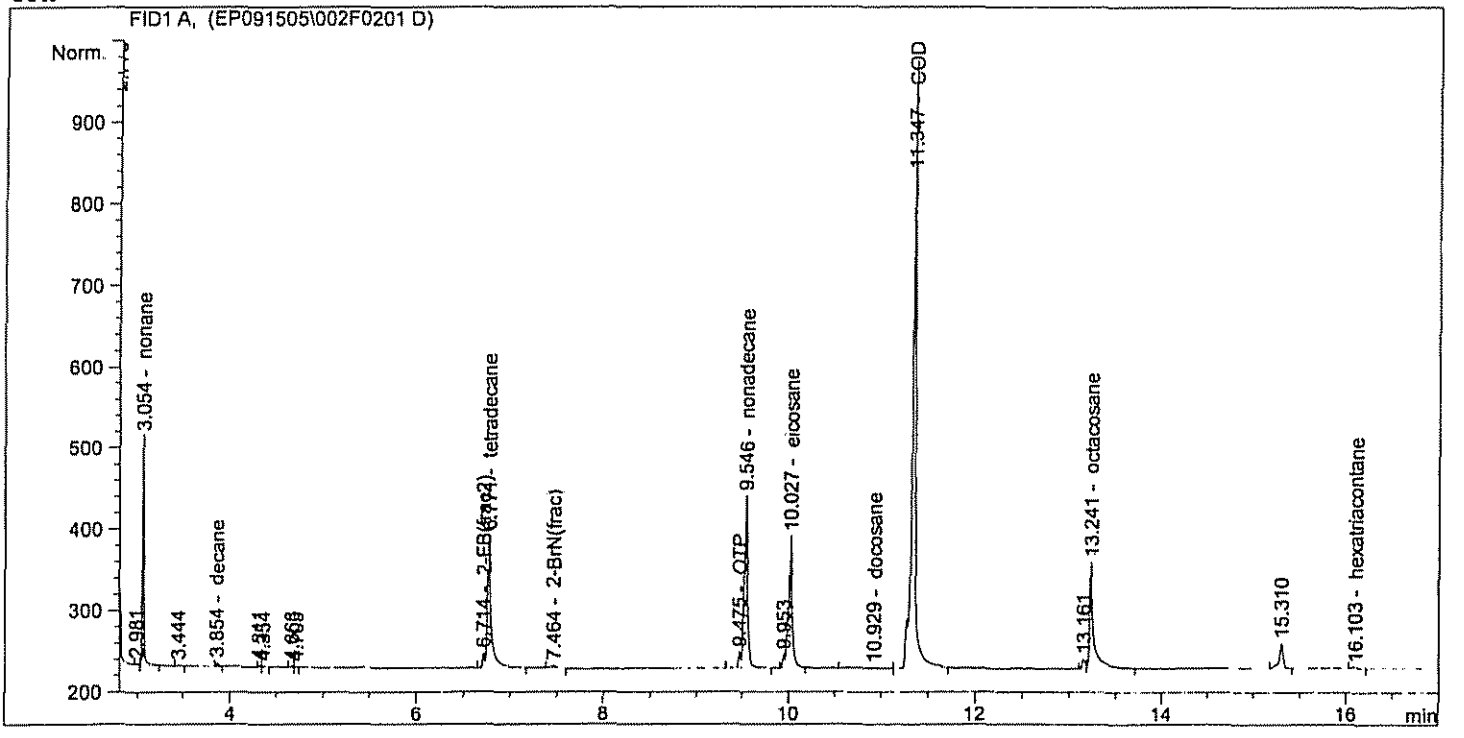
*** End of Report ***

```
==================================================================
Injection Date  : 9/15/2005 2:42:52 PM          Seq. Line :   2
Sample Name     : lcs3191 x1 K                   Location : Vial 2
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\091505.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    : 9/15/2005 1:45:46 PM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/15/2005 1:41:18 PM
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   3.054 VB      0.0170  311.93680  0.00038 nonane
   2   3.854 VV      0.0282    8.89159 1.095e-5 decane
   3   5.410         0.0000    0.00000  0.00000 dodecane
   4   6.714 VV      0.0244   27.85187 3.429e-5 2-FB(frac2)
   5   6.771 VB      0.0403  462.23044  0.00057 tetradecane
   6   7.464 BP      0.0494   11.24358 1.384e-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   9.475 BV      0.0259   33.67286 4.145e-5 OTP
  10   9.546 VB      0.0376  537.29529  0.00066 nonadecane
  11  10.027 VV      0.0393  461.54047  0.00057 eicosane
  12  10.929 VP      0.1273   10.78091 1.327e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	VB	0.0423	1870.82227	0.00230	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.241	VB	0.0476	421.67615	0.00052	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.103	BP	0.0583	6.24608	7.689e-6	hexatriacontane

Totals : 4164.18830 5.126e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.539	PV	0.0194	158.18944	0.00019	?
2	0.584	VV	0.0184	62.85604	7.738e-5	?
3	0.692	VV S	0.0367	9.25052e5	1.13876	?
4	1.806	VV S	0.9739	7.92181e7	97.51932	?
5	1.859	VV S	0.0202	9.61950e5	1.18418	?
6	1.908	PV T	0.0638	2.58144e4	0.03178	?
7	1.955	VV T	0.0316	1.10234e4	0.01357	?
8	1.995	VV T	0.0272	8738.43457	0.01076	?
9	2.053	VV T	0.0366	1.03502e4	0.01274	?
10	2.096	VV T	0.0312	7595.26807	0.00935	?
11	2.136	VV T	0.0377	8444.81250	0.01040	?
12	2.190	VV T	0.0352	8932.15820	0.01100	?
13	2.254	VV T	0.0330	7524.08643	0.00926	?
14	2.303	VV T	0.0413	9720.03320	0.01197	?
15	2.409	VV T	0.0619	8805.54199	0.01084	?
16	2.470	VV T	0.0272	3726.32617	0.00459	?
17	2.507	VV T	0.0455	4268.31055	0.00525	?
18	2.581	VV T	0.0293	4035.77515	0.00497	?
19	2.618	VB T	0.0264	1766.99426	0.00218	?
20	2.738	VV S	0.0323	1887.40381	0.00232	?
21	2.775	VBAS	0.0204	960.17267	0.00118	?
22	2.981	BP	0.0266	1.70994	2.105e-6	?
23	3.444	BV	0.0277	2.65804	3.272e-6	?
24	4.311	VV	0.0220	3.92693	4.834e-6	?
25	4.354	VP	0.0238	2.09888	2.584e-6	?
26	4.663	VV	0.0289	3.95826	4.873e-6	?
27	4.705	VV	0.0295	2.08629	2.568e-6	?
28	9.953	PV	0.0241	25.25124	3.108e-5	?
29	13.161	PV	0.0355	25.12543	3.093e-5	?
30	15.310	BB	0.0463	91.37249	0.00011	?

Uncalib. totals : 8.12291e7 99.9949

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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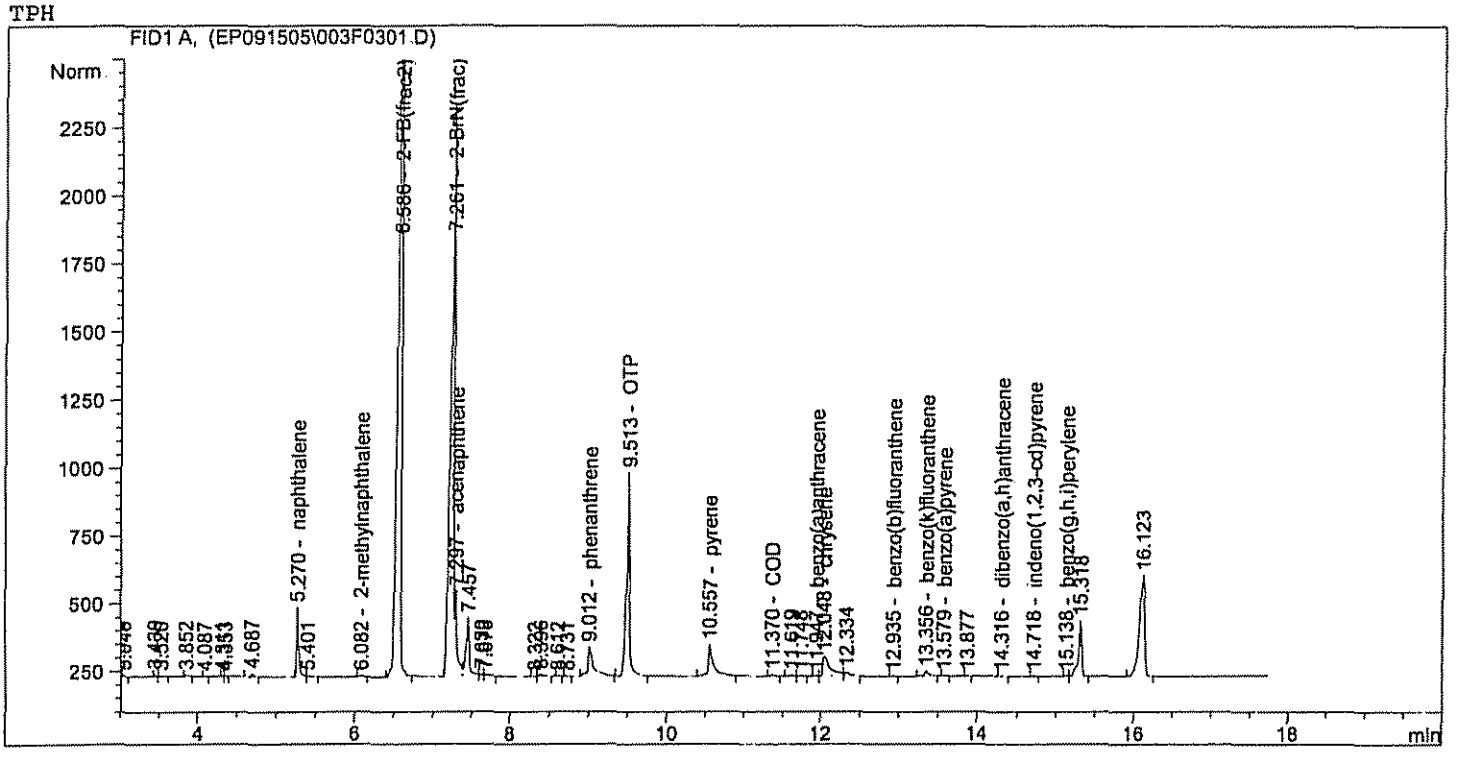
*** End of Report ***

```
==================================================================
Injection Date   : 9/15/2005 3:09:41 PM          Seq. Line :   3
Sample Name      : lcs3191 x1 R                   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\EPH-R_F.M
Last changed     : 9/16/2005 8:12:09 AM by DCS
                   (modified after loading)
```

TPH




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/16/2005 8:11:47 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	5.270	BV	0.0256	451.96115	0.00057	naphthalene
2	6.082	PB	0.0357	6.89431	8.649e-6	2-methylnaphthalene
3	6.586	PP	0.0470	9196.13574	0.01154	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.261	BV	0.0420	6785.71094	0.00851	2-BrN(frac)
6	7.297	VV	0.0280	647.58765	0.00081	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	9.012	BB	0.0630	517.64612	0.00065	phenanthrene
9	9.111		0.0000	0.00000	0.00000	anthracene
10	9.513	BB	0.0376	2106.06665	0.00264	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.557	BB	0.0641	562.52881	0.00071	pyrene

Data File C:\HPCHEM\1\DATA\EP091505\003F0301.D Sample Name: lcs3191 x1 R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.370	BB	0.0398	21.59118	2.709e-5	COD
14	11.947	PV	0.0369	3.54759	4.451e-6	benzo(a)anthracene
15	12.048	VV	0.0845	477.54599	0.00060	chrysene
16	12.935	BP	0.0274	1.84648	2.316e-6	benzo(b)fluoranthene
17	13.356	BB	0.0544	71.08946	8.918e-5	benzo(k)fluoranthene
18	13.579	PB	0.0316	4.68566	5.878e-6	benzo(a)pyrene
19	14.316	PB	0.0433	6.20215	7.781e-6	dibenzo(a,h)anthracene
20	14.718	BB	0.0347	3.72220	4.670e-6	indeno(1,2,3-cd)pyrene
21	15.138	BV	0.0384	2.72462	3.418e-6	benzo(g,h,i)perylene

Totals : 2.08675e4 2.618e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.540	PV	0.0206	213.28780	0.00027	?
2	0.584	VV	0.0218	71.35459	8.952e-5	?
3	0.610	VP	8.71e-3	525.71332	0.00066	?
4	0.629	VV S	0.0109	3659.14966	0.00459	?
5	0.663	VV S	0.0170	2.10207e5	0.26371	?
6	1.786	VV S	0.9620	7.84056e7	98.36237	?
7	1.841	VV S	0.0190	9.23313e5	1.15833	?
8	1.905	VV S	0.0277	8829.06543	0.01108	?
9	1.940	VV S	0.0414	1.15475e4	0.01449	?
10	1.994	VV S	0.0470	1.19730e4	0.01502	?
11	2.045	VV S	0.0397	1.07595e4	0.01350	?
12	2.097	VV S	0.0304	8423.14258	0.01057	?
13	2.145	VV S	0.0400	1.07386e4	0.01347	?
14	2.187	VV S	0.0275	6314.94580	0.00792	?
15	2.221	VV S	0.0379	7935.29053	0.00996	?
16	2.267	VV S	0.0289	6268.01807	0.00786	?
17	2.309	VV S	0.0330	7409.74365	0.00930	?
18	2.360	VV S	0.0619	1.15917e4	0.01454	?
19	2.430	VV S	0.0352	7560.34131	0.00948	?
20	2.476	VV S	0.0322	5989.68799	0.00751	?
21	2.513	VV S	0.0383	6837.90430	0.00858	?
22	2.585	VV S	0.0583	8792.49707	0.01103	?
23	2.624	VV S	0.0333	4865.47852	0.00610	?
24	2.665	VV S	0.0297	2714.94507	0.00341	?
25	2.702	VV S	0.0490	3344.50562	0.00420	?
26	2.764	VB S	0.0309	1231.72217	0.00155	?
27	2.970	PP	0.0178	2.00225	2.512e-6	?
28	3.046	BB	0.0249	5.11609	6.418e-6	?
29	3.439	PB	0.0207	10.61645	1.332e-5	?
30	3.520	BB	0.0339	8.35012	1.048e-5	?
31	3.852	VB	0.0286	9.54076	1.197e-5	?
32	4.087	PB	0.0293	2.60450	3.267e-6	?
33	4.311	BV	0.0179	2.00202	2.512e-6	?
34	4.353	VB	0.0196	2.25675	2.831e-6	?
35	4.687	BB	0.0314	26.36935	3.308e-5	?
36	5.401	VB	0.0524	17.06805	2.141e-5	?
37	7.457	VV	0.0422	690.35120	0.00087	?
38	7.630	VV	0.0465	21.93141	2.751e-5	?
39	7.678	VB	0.0592	24.39018	3.060e-5	?
40	8.322	PV	0.0347	2.99953	3.763e-6	?
41	8.396	VB	0.0562	28.40791	3.564e-5	?
42	8.612	BB	0.0328	2.75475	3.456e-6	?
43	8.731	PB	0.0300	2.25244	2.826e-6	?
44	11.619	BB	0.0356	14.88110	1.867e-5	?
45	11.748	BP	0.0458	8.70612	1.092e-5	?
46	12.334	VB	0.0602	61.72435	7.744e-5	?
47	13.877	BP	0.0340	3.41167	4.280e-6	?
48	15.318	VB	0.0426	607.79144	0.00076	?
49	16.123	BB	0.0686	1834.02759	0.00230	?

Data File C:\HPCHEM\1\DATA\EP091505\003F0301.D Sample Name: lcs3191 x1 R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
Uncalib. totals :				7.96901e7	99.9738	

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 ***

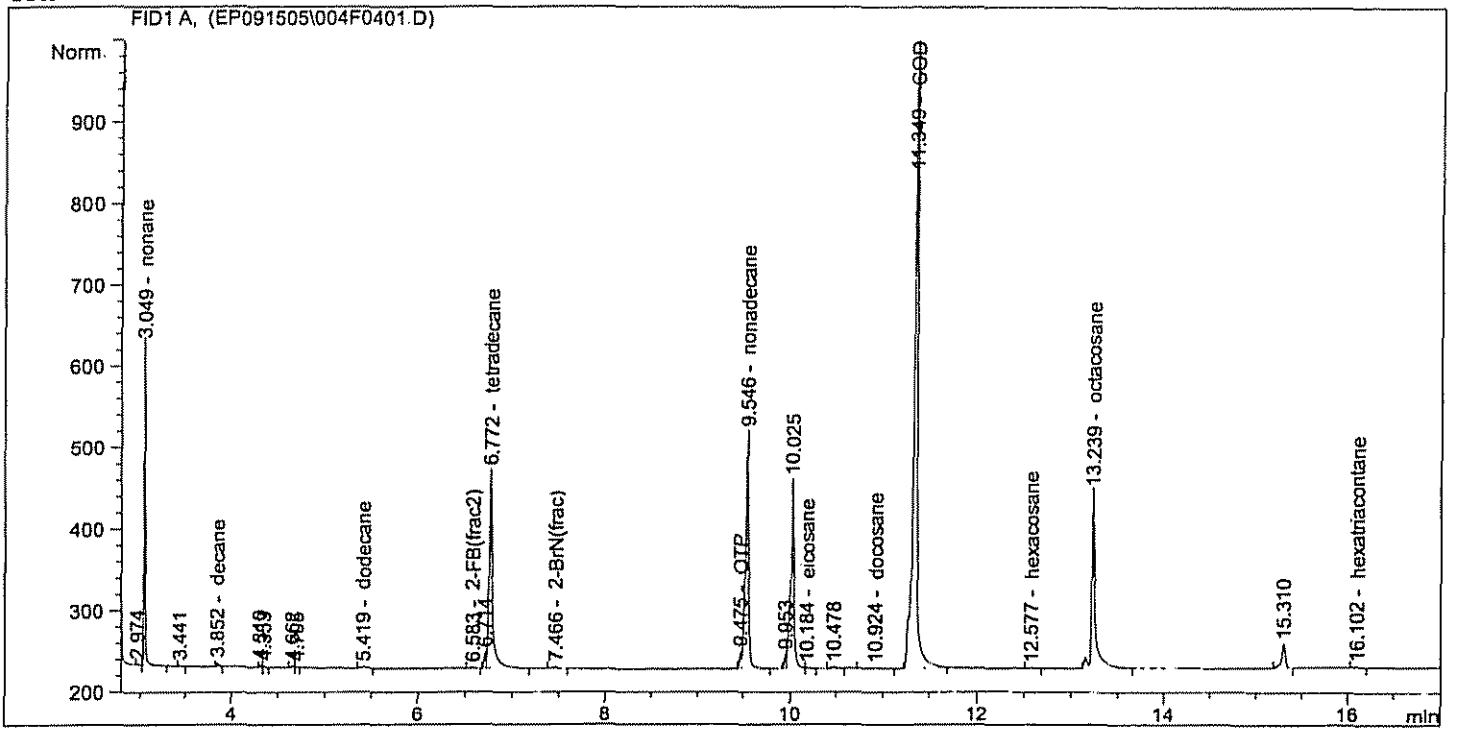
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP091505\004F0401.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 4
Sample Name	: G106-527-31 x1 ms K	Injection Number	: 1
Run Time Bar Code	: 139158	Sequence Line	: 4
Acquired on	: 15 Sep 05 3:37:00 PM	Instrument Method	: PROEPH.M
Report Created on	: 16 Sep 2005 8:03:34 AM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 15 Sep 2005 1:41:18 PM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\EP091505\004F0401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.049	435.97452	VV	0.01	1	0.00054	nonane
3.852	9.44468	VV	0.02	2	1.164e-5	decane
5.419	6.35990	BP	0.05	3	7.836e-6	dodecane
6.583	3.46704	VP	0.04	4	4.272e-6	2-FB(frac2)
6.772	632.70331	VP	0.03	5	0.00078	tetradecane
7.466	6.80928	BB	0.04	6	8.390e-6	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
9.475	34.17978	BV	0.02	9	4.211e-5	OTP
9.546	704.77069	VV	0.03	10	0.00087	nonadecane
10.184	3.77479	VB	0.03	11	4.651e-6	eicosane
10.924	8.34624	VP	0.08	12	1.028e-5	docosane
11.349	2296.83154	BB	0.04	13	0.00283	COD
11.779	0.00000	XX	0.00	14	0.00000	tetracosane
12.577	2.55323	VB	0.03	15	3.146e-6	hexacosane
13.239	593.09827	BB	0.04	16	0.00073	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.102	5.81332	BB	0.05	18	7.163e-6	hexatriacontane
0.533	80.97552	PV	0.01	1	9.977e-5	* uncalibrated *
0.583	21.66393	VV	0.01	2	2.669e-5	* uncalibrated *
1.820	8.00962e7	VVS	0.97	3	98.69099	* uncalibrated *
1.848	9.32651e5	VVS	0.01	4	1.14917	* uncalibrated *
1.907	8560.46191	VVS	0.02	5	0.01055	* uncalibrated *
1.948	9578.58105	VVS	0.02	6	0.01180	* uncalibrated *
1.993	1.10341e4	VVS	0.03	7	0.01360	* uncalibrated *
2.044	9182.21680	VVS	0.03	8	0.01131	* uncalibrated *
2.083	8798.62695	VVS	0.03	9	0.01084	* uncalibrated *
2.135	7960.75244	VVS	0.03	10	0.00981	* uncalibrated *
2.174	7390.24561	VVS	0.03	11	0.00911	* uncalibrated *
2.222	9864.62109	VVS	0.05	12	0.01215	* uncalibrated *
2.292	9391.60059	VVS	0.05	13	0.01157	* uncalibrated *
2.342	6176.69092	VVS	0.03	14	0.00761	* uncalibrated *
2.381	5066.27686	VVS	0.02	15	0.00624	* uncalibrated *
2.425	5519.66357	VVS	0.03	16	0.00680	* uncalibrated *
2.466	5240.11963	VVS	0.02	17	0.00646	* uncalibrated *
2.508	4313.92285	VVS	0.02	18	0.00532	* uncalibrated *
2.549	4810.26807	VVS	0.03	19	0.00593	* uncalibrated *
2.585	3558.39453	VVS	0.02	20	0.00438	* uncalibrated *
2.628	4245.69678	VVS	0.03	21	0.00523	* uncalibrated *
2.666	2321.30444	VVS	0.03	22	0.00286	* uncalibrated *
2.709	802.58173	VPS	0.02	23	0.00099	* uncalibrated *
2.745	287.32001	VBAS	0.01	24	0.00035	* uncalibrated *
2.974	1.71484	BP	0.02	25	2.113e-6	* uncalibrated *

```
==================================================================
Injection Date  : 9/15/2005 3:37:00 PM          Seq. Line :   4
Sample Name     : 139158 x1 ms K                 Location : Vial 4
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\091505.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    : 9/15/2005 1:45:46 PM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/15/2005 1:41:18 PM
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   3.049 VV     0.0169  435.97452  0.00054 nonane
   2   3.852 VV     0.0268    9.44468 1.164e-5 decane
   3   5.419 BP     0.0592    6.35990 7.836e-6 dodecane
   4   6.583 VP     0.0458    3.46704 4.272e-6 2-FB(frac2)
   5   6.772 VP     0.0374  632.70331  0.00078 tetradecane
   6   7.466 BB     0.0424    6.80928 8.390e-6 2-BrN(frac)
   7   8.095        0.0000    0.00000  0.00000 hexadecane
   8   9.080        0.0000    0.00000  0.00000 octadecane
   9   9.475 BV     0.0247   34.17978 4.211e-5 OTP
  10   9.546 VV     0.0352  704.77069  0.00087 nonadecane
  11  10.184 VB     0.0364    3.77479 4.651e-6 eicosane
  12  10.924 VP     0.0865    8.34624 1.028e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.349	BB	0.0431	2296.83154	0.00283	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.577	VB	0.0394	2.55323	3.146e-6	hexacosane
16	13.239	BB	0.0419	593.09827	0.00073	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.102	BB	0.0528	5.81332	7.163e-6	hexatriacontane

Totals : 4744.12659 5.846e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.533	PV	0.0184	80.97552	9.977e-5	?
2	0.583	VV	0.0161	21.66393	2.669e-5	?
3	1.820	VV S	0.9745	8.00962e7	98.69099	?
4	1.848	VV S	0.0194	9.32651e5	1.14917	?
5	1.907	VV S	0.0272	8560.46191	0.01055	?
6	1.948	VV S	0.0270	9578.58105	0.01180	?
7	1.993	VV S	0.0386	1.10341e4	0.01360	?
8	2.044	VV S	0.0333	9182.21680	0.01131	?
9	2.083	VV S	0.0345	8798.62695	0.01084	?
10	2.135	VV S	0.0349	7960.75244	0.00981	?
11	2.174	VV S	0.0325	7390.24561	0.00911	?
12	2.222	VV S	0.0521	9864.62109	0.01215	?
13	2.292	VV S	0.0546	9391.60059	0.01157	?
14	2.342	VV S	0.0308	6176.69092	0.00761	?
15	2.381	VV S	0.0279	5066.27686	0.00624	?
16	2.425	VV S	0.0344	5519.66357	0.00680	?
17	2.466	VV S	0.0288	5240.11963	0.00646	?
18	2.508	VV S	0.0250	4313.92285	0.00532	?
19	2.549	VV S	0.0315	4810.26807	0.00593	?
20	2.585	VV S	0.0283	3558.39453	0.00438	?
21	2.628	VV S	0.0317	4245.69678	0.00523	?
22	2.666	VV S	0.0364	2321.30444	0.00286	?
23	2.709	VP S	0.0204	802.58173	0.00099	?
24	2.745	VBAS	0.0120	287.32001	0.00035	?
25	2.974	BP	0.0224	1.71484	2.113e-6	?
26	3.441	PV	0.0251	2.46383	3.036e-6	?
27	4.310	VV	0.0219	5.04903	6.221e-6	?
28	4.353	VP	0.0231	2.97454	3.665e-6	?
29	4.662	VV	0.0281	4.88383	6.018e-6	?
30	4.705	VV	0.0265	2.57980	3.179e-6	?
31	6.714	BV	0.0221	28.98607	3.572e-5	?
32	9.953	BV	0.0198	23.95333	2.951e-5	?
33	10.025	VV	0.0363	602.15594	0.00074	?
34	10.478	PB	0.0540	8.46678	1.043e-5	?
35	15.310	BB	0.0467	87.06393	0.00011	?

Uncalib. totals : 8.11538e7 99.9942

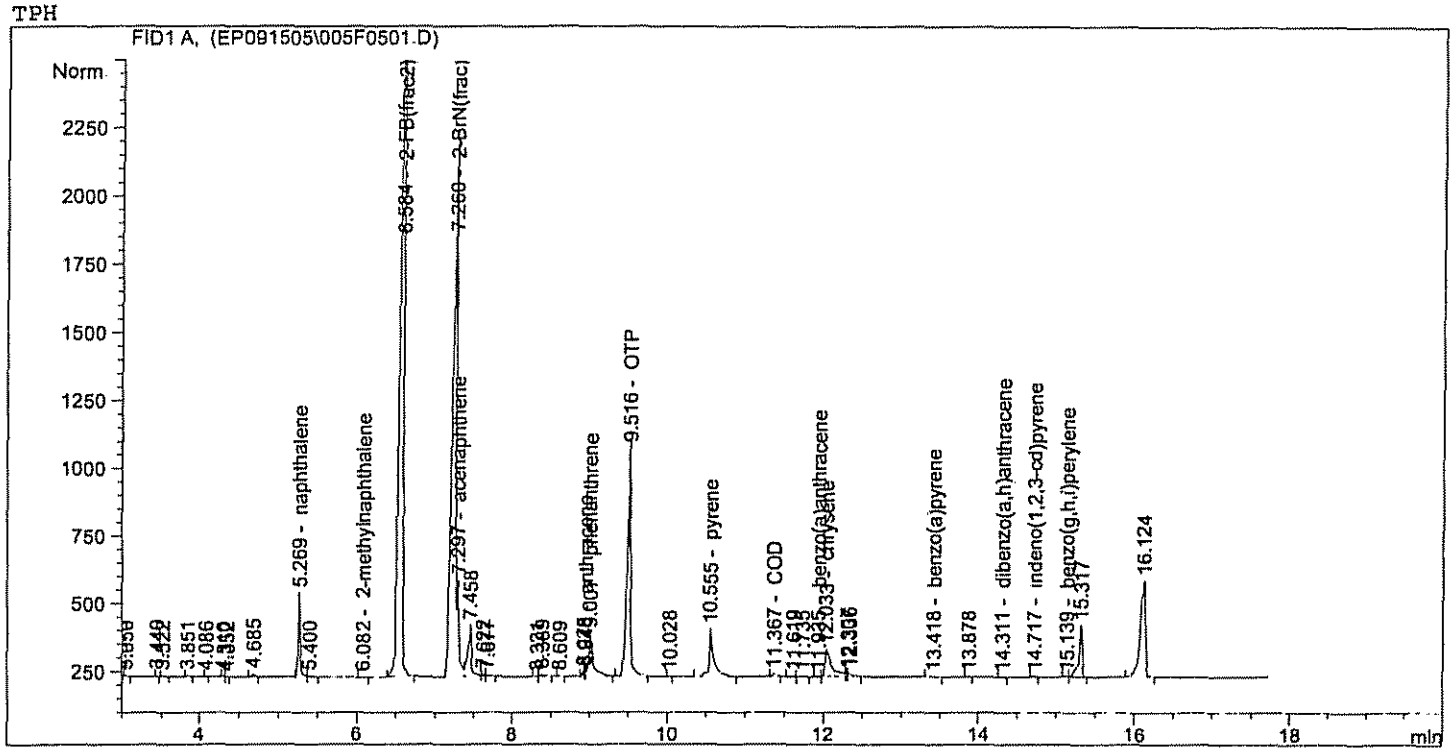
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

Injection Date	: 9/15/2005 4:04:02 PM	Seq. Line	: 5
Sample Name	: 139158 x1 ms R	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	: 9/16/2005 8:12:09 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/16/2005 8:11:47 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	BV	0.0272	564.94012	0.00070	naphthalene
2	6.082	BB	0.0373	5.65367	7.038e-6	2-methylnaphthalene
3	6.584	PB	0.0461	9463.50586	0.01178	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.260	BV	0.0447	7091.51807	0.00883	2-BrN(frac)
6	7.297	VV	0.0286	721.33600	0.00090	acenaphthene
7	7.920		0.0000	0.00000	0.00000	fluorene
8	8.948	VV	0.0201	23.50851	2.927e-5	anthracene
9	9.007	VB	0.0537	633.30908	0.00079	phenanthrene
10	9.516	BB	0.0410	2603.43774	0.00324	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.555	PB	0.0542	724.52545	0.00090	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.367	BB	0.0347	22.63808	2.818e-5	COD
14	11.935	PV	0.0425	5.92715	7.379e-6	benzo(a)anthracene
15	12.033	VV	0.0767	585.85443	0.00073	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	13.418	BB	0.0663	12.03317	1.498e-5	benzo(a)pyrene
19	14.311	BB	0.0321	3.67181	4.571e-6	dibenzo(a,h)anthracene
20	14.717	BB	0.0340	3.99047	4.968e-6	indeno(1,2,3-cd)pyrene
21	15.139	BV	0.0407	4.00112	4.981e-6	benzo(g,h,i)perylene

Totals : 2.24699e4 2.797e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.550	PV	0.0210	198.00095	0.00025	?
2	0.584	VV	0.0199	71.12807	8.855e-5	?
3	0.672	VV S	0.0213	3.61491e5	0.45001	?
4	1.796	VV S	0.9679	7.88728e7	98.18727	?
5	1.851	VV S	0.0192	9.29424e5	1.15702	?
6	1.934	VV S	0.0388	1.21497e4	0.01512	?
7	1.982	VV S	0.0348	1.05782e4	0.01317	?
8	2.024	VV S	0.0303	8414.88086	0.01048	?
9	2.053	VV S	0.0296	7445.62354	0.00927	?
10	2.133	VV S	0.0560	1.63371e4	0.02034	?
11	2.183	VV S	0.0348	9027.12891	0.01124	?
12	2.226	VV S	0.0316	7570.48828	0.00942	?
13	2.259	VV S	0.0301	5755.92529	0.00717	?
14	2.301	VV S	0.0338	7320.86719	0.00911	?
15	2.350	VV S	0.0774	1.34457e4	0.01674	?
16	2.449	VV S	0.0465	9008.45508	0.01121	?
17	2.495	VV S	0.0401	7040.32861	0.00876	?
18	2.538	VV S	0.0258	4719.72705	0.00588	?
19	2.571	VV S	0.0304	5104.57959	0.00635	?
20	2.618	VV S	0.0452	6742.32471	0.00839	?
21	2.657	VV S	0.0288	3338.48779	0.00416	?
22	2.694	VV S	0.0241	1982.45862	0.00247	?
23	2.726	VV S	0.0227	1309.77771	0.00163	?
24	2.756	VB S	0.0403	2024.19702	0.00252	?
25	2.975	BB	0.0191	2.17628	2.709e-6	?
26	3.050	BP	0.0209	5.73944	7.145e-6	?
27	3.440	PB	0.0180	10.09741	1.257e-5	?
28	3.522	BB	0.0298	7.33832	9.135e-6	?
29	3.851	VB	0.0281	9.10796	1.134e-5	?
30	4.086	PB	0.0236	2.04738	2.549e-6	?
31	4.310	BV	0.0178	1.96901	2.451e-6	?
32	4.352	VP	0.0193	2.38106	2.964e-6	?
33	4.685	PB	0.0294	22.56646	2.809e-5	?
34	5.400	VB	0.0518	16.44225	2.047e-5	?
35	7.458	VB	0.0433	638.90869	0.00080	?
36	7.622	BV	0.0384	17.26898	2.150e-5	?
37	7.677	VB	0.0471	17.48038	2.176e-5	?
38	8.321	PV	0.0354	3.45291	4.298e-6	?
39	8.389	VB	0.0499	24.56735	3.058e-5	?
40	8.609	BP	0.0371	2.61441	3.255e-6	?
41	8.925	BV	0.0246	27.30062	3.399e-5	?
42	10.028	PB	0.0227	2.08955	2.601e-6	?
43	11.619	BP	0.0380	14.29636	1.780e-5	?
44	11.735	VP	0.0420	8.53738	1.063e-5	?
45	12.307	VV	0.0220	14.22594	1.771e-5	?
46	12.336	VB	0.0579	46.77882	5.823e-5	?
47	13.878	BB	0.0322	3.95359	4.922e-6	?
48	15.317	VB	0.0433	577.30231	0.00072	?
49	16.124	BB	0.0665	1700.30994	0.00212	?

Data File C:\HPCHEM\1\DATA\EP091505\005F0501.D Sample Name: 139158 x1 ms R

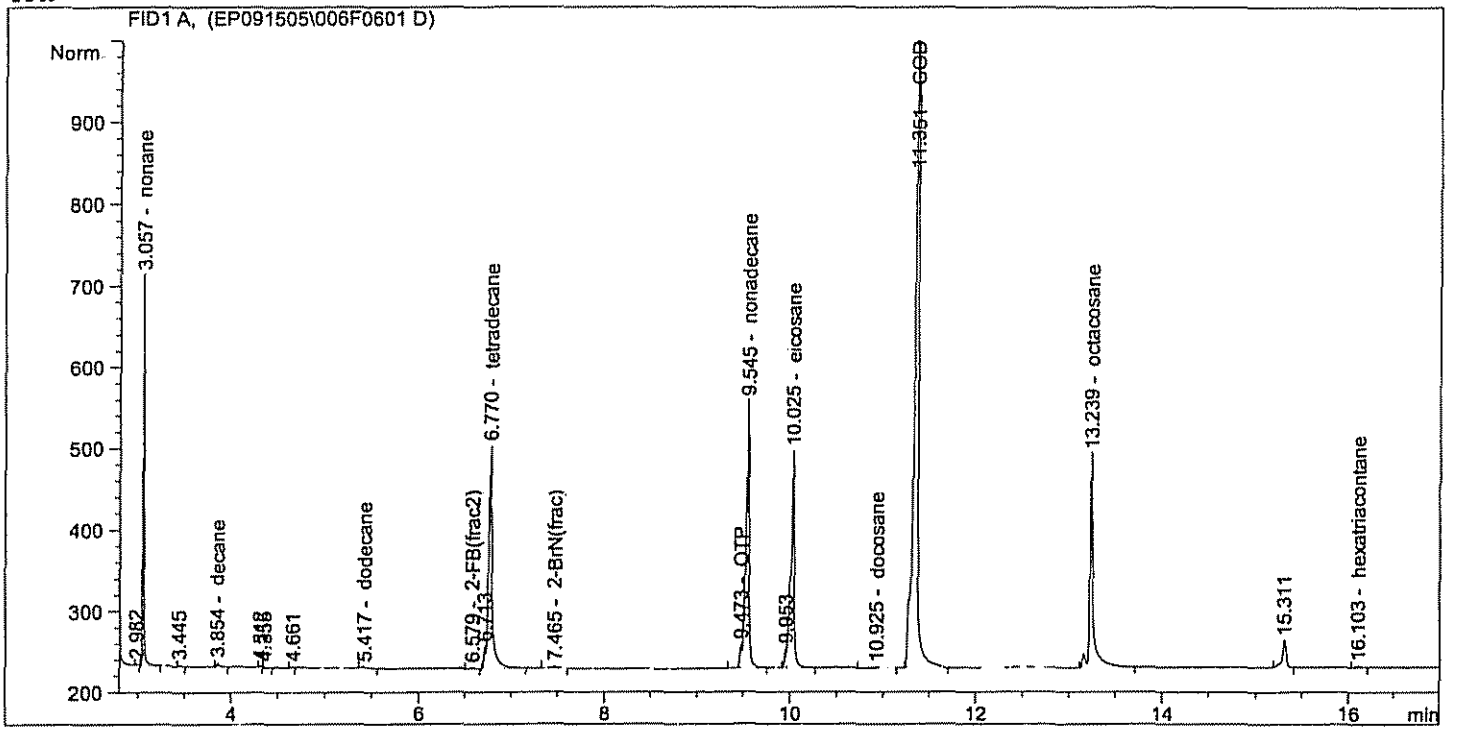
Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
Uncalib. totals :				8.03065e7	99.9720	

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  : 9/15/2005 4:30:30 PM          Seq. Line :   6
Sample Name     : 139158 x1 msd K                Location : Vial 6
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                          Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\091505.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    : 9/15/2005 1:45:46 PM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/15/2005 1:41:18 PM
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   3.057 VB     0.0161  497.18274  0.00061 nonane
   2   3.854 VP     0.0272    9.99380 1.224e-5 decane
   3   5.417 BB     0.0455    5.87509 7.197e-6 dodecane
   4   6.579 VP     0.0391    3.16671 3.879e-6 2-FB(frac2)
   5   6.770 VB     0.0384  713.37006  0.00087 tetradecane
   6   7.465 PB     0.0442    7.82001 9.580e-6 2-BrN(frac)
   7   8.095        0.0000    0.00000  0.00000 hexadecane
   8   9.080        0.0000    0.00000  0.00000 octadecane
   9   9.473 PV     0.0242   44.69913 5.476e-5 OTP
  10   9.545 VB     0.0345  801.76611  0.00098 nonadecane
  11  10.025 VB     0.0363  692.91913  0.00085 eicosane
  12  10.925 VP     0.0706    7.12354 8.727e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.351	BB	0.0401	2735.13428	0.00335	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.239	PB	0.0411	699.26440	0.00086	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.103	BB	0.0544	7.05540	8.643e-6	hexatriacontane

Totals : 6225.37040 7.626e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.536	PV	0.0202	125.28889	0.00015	?
2	0.584	VV	0.0176	50.29697	6.162e-5	?
3	1.782	VV S	0.9834	8.05312e7	98.65369	?
4	1.862	VP S	0.0196	9.27082e5	1.13571	?
5	1.917	VV S	0.0863	3.00788e4	0.03685	?
6	1.973	VV S	0.0538	1.55566e4	0.01906	?
7	2.028	VV S	0.0341	9754.04688	0.01195	?
8	2.066	VV S	0.0311	8815.89551	0.01080	?
9	2.113	VV S	0.0364	9207.83301	0.01128	?
10	2.149	VV S	0.0284	7424.16650	0.00909	?
11	2.193	VV S	0.0496	1.04388e4	0.01279	?
12	2.252	VV S	0.0463	1.03345e4	0.01266	?
13	2.298	VV S	0.0322	6940.03613	0.00850	?
14	2.344	VV S	0.0386	8827.46387	0.01081	?
15	2.399	VV S	0.0464	9635.22656	0.01180	?
16	2.464	VV S	0.0485	9461.12793	0.01159	?
17	2.507	VV S	0.0277	4958.77295	0.00607	?
18	2.536	VV S	0.0269	4678.80127	0.00573	?
19	2.575	VV S	0.0290	4606.91797	0.00564	?
20	2.611	VV S	0.0324	5022.34326	0.00615	?
21	2.645	VV S	0.0297	3927.54126	0.00481	?
22	2.686	VV S	0.0487	3526.11841	0.00432	?
23	2.743	VBAS	0.0369	2133.25049	0.00261	?
24	2.982	BP	0.0229	2.04924	2.510e-6	?
25	3.445	PV	0.0230	3.82263	4.683e-6	?
26	4.312	VV	0.0222	3.34694	4.100e-6	?
27	4.355	VB	0.0305	3.11438	3.815e-6	?
28	4.661	VV	0.0311	3.79356	4.647e-6	?
29	6.713	BV	0.0233	40.23126	4.928e-5	?
30	9.953	VV	0.0226	33.73758	4.133e-5	?
31	15.311	BB	0.0468	98.85041	0.00012	?

Uncalib. totals : 8.16240e7 99.9924

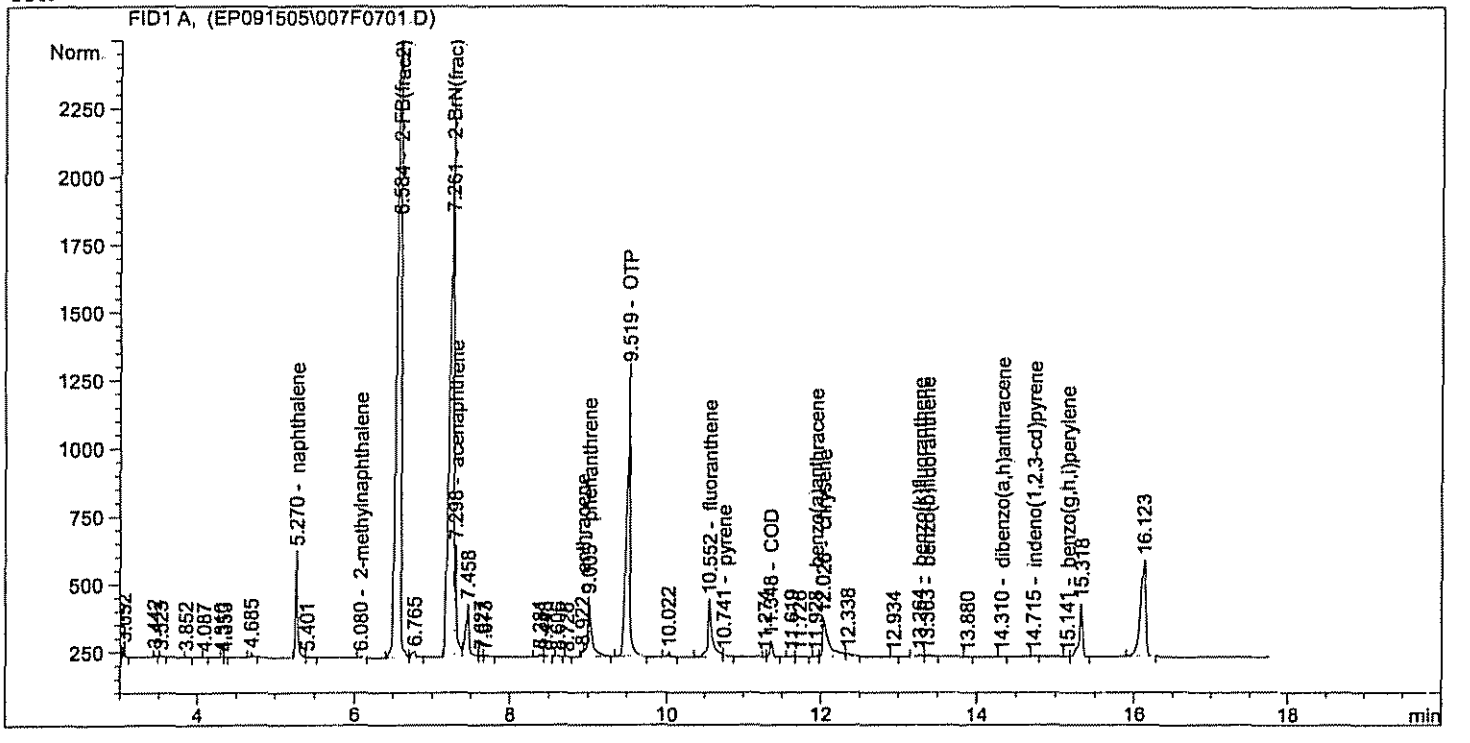
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

```
==================================================================
Injection Date  : 9/15/2005 4:57:35 PM          Seq. Line :   7
Sample Name     : 139158 x1 msd R                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    : 9/16/2005 8:12:09 AM by DCS
                  (modified after loading)
```

TPH




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/16/2005 8:11:47 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   5.270 BB     0.0263  685.06873  0.00085 naphthalene
   2   6.080 PB     0.0361    6.08491 7.543e-6 2-methylnaphthalene
   3   6.584 BV     0.0427 9636.23633  0.01195 2-FB(frac2)
   4   7.158        0.0000    0.00000  0.00000 acenaphthylene
   5   7.261 PV     0.0498 7252.23730  0.00899 2-BrN(frac)
   6   7.298 VV     0.0266  796.83435  0.00099 acenaphthene
   7   7.920        0.0000    0.00000  0.00000 fluorene
   8   8.922 BV     0.0224   33.70327 4.178e-5 anthracene
   9   9.005 VB     0.0520  803.87195  0.00100 phenanthrene
  10   9.519 PB     0.0399 3273.94287  0.00406 OTP
  11  10.552 BV     0.0533  822.17255  0.00102 fluoranthene
  12  10.741 VB     0.0437   30.09958 3.731e-5 pyrene
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.348	VB	0.0420	156.64056	0.00019	COD
14	11.928	PV	0.0404	9.62263	1.193e-5	benzo(a)anthracene
15	12.026	VV	0.0722	764.31415	0.00095	chrysene
16	13.264	BV	0.0599	30.42599	3.772e-5	benzo(k)fluoranthene
17	13.363	VB	0.0645	28.53241	3.537e-5	benzo(b)fluoranthene
18	13.477		0.0000	0.00000	0.00000	benzo(a)pyrene
19	14.310	BB	0.0389	3.89799	4.832e-6	dibenzo(a,h)anthracene
20	14.715	BB	0.0334	3.32160	4.118e-6	indeno(1,2,3-cd)pyrene
21	15.141	BV	0.0393	3.61768	4.485e-6	benzo(g,h,i)perylene

Totals : 2.43406e4 3.017e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0236	249.84331	0.00031	?
2	0.668	VV S	0.0185	2.74763e5	0.34060	?
3	1.805	VV S	0.9703	7.92774e7	98.27398	?
4	1.857	VV S	0.0191	9.54034e5	1.18264	?
5	1.919	VV S	0.0603	1.77393e4	0.02199	?
6	1.973	VV S	0.0352	9410.88867	0.01167	?
7	2.023	VV S	0.0477	1.16607e4	0.01445	?
8	2.070	VV S	0.0338	8198.41602	0.01016	?
9	2.124	VV S	0.0391	9423.24707	0.01168	?
10	2.166	VV S	0.0381	8033.06641	0.00996	?
11	2.218	VV S	0.0301	6934.50195	0.00860	?
12	2.255	VV S	0.0357	7156.86182	0.00887	?
13	2.307	VV S	0.0350	7290.78320	0.00904	?
14	2.343	VV S	0.0368	6838.91699	0.00848	?
15	2.403	VV S	0.0376	6843.59912	0.00848	?
16	2.454	VV S	0.0431	7505.09961	0.00930	?
17	2.508	VV S	0.0523	8373.62695	0.01038	?
18	2.568	VV S	0.0488	7022.92041	0.00871	?
19	2.624	VV S	0.0462	6302.68311	0.00781	?
20	2.669	VV S	0.0460	4120.03320	0.00511	?
21	2.748	VB S	0.0413	2754.29590	0.00341	?
22	2.978	PP	0.0188	2.10090	2.604e-6	?
23	3.052	BB	0.0179	39.28537	4.870e-5	?
24	3.442	BB	0.0180	13.21777	1.639e-5	?
25	3.523	BV	0.0280	9.34751	1.159e-5	?
26	3.852	VB	0.0286	9.75252	1.209e-5	?
27	4.087	PB	0.0253	2.55378	3.166e-6	?
28	4.310	BV	0.0184	1.39169	1.725e-6	?
29	4.353	VB	0.0185	2.53473	3.142e-6	?
30	4.685	BB	0.0269	25.49116	3.160e-5	?
31	5.401	BB	0.0505	17.57194	2.178e-5	?
32	6.765	VB	0.0466	77.36272	9.590e-5	?
33	7.458	VV	0.0444	641.01770	0.00079	?
34	7.627	VV	0.0422	21.74588	2.696e-5	?
35	7.673	VB	0.0500	22.71198	2.815e-5	?
36	8.381	BV	0.0445	25.74665	3.192e-5	?
37	8.448	VB	0.0347	6.11145	7.576e-6	?
38	8.606	BB	0.0323	2.47132	3.064e-6	?
39	8.726	PB	0.0278	1.99913	2.478e-6	?
40	10.022	BB	0.0356	43.38923	5.379e-5	?
41	11.274	BV	0.0274	9.58988	1.189e-5	?
42	11.619	BV	0.0335	13.68296	1.696e-5	?
43	11.726	VP	0.0381	9.10695	1.129e-5	?
44	12.338	VB	0.0563	44.11906	5.469e-5	?
45	12.934	BP	0.0308	2.06437	2.559e-6	?
46	13.880	BB	0.0394	3.76193	4.663e-6	?
47	15.318	VB	0.0431	589.37128	0.00073	?
48	16.123	BB	0.0691	1739.29395	0.00216	?

Uncalib. totals : 8.06454e7 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

==========
*** End of Report ***

EPH Prep, Standard, Run Logs

Prep Report for Batch 3191 (EPH/3540/SOIL) on 2005-07-08

Sample ID	EXT	InitWt	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot	Analyst
G106-527-1H		13.82			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G106-527-2H		13.33			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G106-527-3H		12.71			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G106-527-3I	MS	13.65	EPHQCSV03N34	1.0	EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G106-527-3J	MSD	12.45	EPHQCSV03N34	1.0	EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G161-2054-1H		12.68			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G161-2055-1H		12.56			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G161-2055-2G		12.01			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
G197-55-1L		13.38			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
LCS3191	LCS	12.0	EPHQCSV03N34	1.0	EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw
PB3191	PB	12.0			EPHSRSV03W17K	1.0	10.0	CO196	CO232	eaw

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep070805

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	7/8/05 8:53					DCS	
002F0201.D	R 20 ccal	7/8/05 9:20					DCS	
003F0301.D	lcs3143 x1 K	7/8/05 9:48					DCS	
004F0401.D	lcs3143 x1 R	7/8/05 10:14					DCS	
005F0501.D	lcs3118 x1 K	7/8/05 10:42					DCS	
006F0601.D	lcs3118 x1 R	7/8/05 11:09					DCS	
007F0701.D	G349-106-5D x4 K DUP	7/8/05 11:35	cid= 135242				DCS	
008F0801 D	G349-106-5D x1 R DUP	7/8/05 12:02	cid= 135242				DCS	
009F0901.D	G510-221-1I x50 K MS	7/8/05 12:29	cid= 131481				DCS	
010F1001.D	G510-221-1J x10 R MS	7/8/05 12:56	cid= 131482				DCS	
011F1101.D	lcs3173 x1 K	7/8/05 13:23					DCS	
012F1201.D	lcs3173 x1 R	7/8/05 13:50					DCS	
013F1301.D	lcs3157 x1 K	7/8/05 14:17					DCS	
014F1401.D	lcs3157 x1 R	7/8/05 14:44					DCS	
015F1501.D	G106-527-1H x1 T	7/8/05 15:11	cid= 139155				DCS	✓✓
016F1601.D	G106-527-3H x1 T	7/8/05 15:38	cid= 139157	✓			DCS	
017F1701.D	G161-2054-1H x1 T	7/8/05 16:05	cid= 139160	✓			DCS	
018F1801.D	G161-2055-2G x1 T	7/8/05 16:32	cid= 139162	✓			DCS	
019F1901.D	G197-55-1L x1 T	7/8/05 16:59	cid= 139163				DCS	✓✓
020F2001.D	pb3191 x1 T	7/8/05 17:27					DCS	

Analyst: _____ Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC

N.C CERTIFICATION #481

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	1000ng/mL	1000ng/L	Acetone	DDT Isomer Mix	5/06	5/10/05	JR
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	100ng/mL	200ng/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	500mL	25mL	5000ug/mL	1000ug/mL	MeCl2	—	6/05	5/13/05	CP
N	SV03-W17D	8/05	EPH Surr	6mL	↓	400ug/mL	100ug/mL	↓		↓	↓	↓
O	ECD03-WRSA	5/16/06	PCP Matrix Spike	20mL	10mL	1000ug/mL	2000ug/L	MeOH		5/15/05	5/15/05	[illegible]
P	ECD03-R7K	5/16/06	Aromatic Std	850mL	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-R5T	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 5/21/05	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.

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

DC#SV28.110202.1

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	EPM 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-V12Q	↓	Frac	400mL	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7L~~ V17L		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	40mL	10mL	250ug/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~~ SV03-R6U	1/24/06	Herb ICAL Std	50mL	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-R7Q	4/21/06	Herb CCAL Std	50mL	25mL	200ug/mL	400ug/L	Hexane		4/06	8/18/05	CP
T	ECD03-R7W	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	–	—	Surr	10mL	↓	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.

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

DC#SV28.110202.1

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2104

Client Project: Sierra 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: Sierra Property
Paradigm Analytical ID: G161-2104

One water sample 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

% 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# 48665
Page 1 **of** 1

Client: ECS, Ltd
Address: 6909 International Dr, St 103
Address: Greensboro, NC 27409
Quote #: 1842
Project ID: Sierra Property
Contact: Jason Ricks
Phone: (336) 856-7150
Fax: 856-7160
Date: 8/3/05
Turnaround: Standard
Job Number: G-9506
P.O. Number:
Report To: jricks@ecslimited.com
Invoice To:

Sample ID	Date	Time	Matrix	Preservatives: HCL	None	HNO3		Analyses: 601/602	EPH	VPH	504.1 (EDB)	3030C-Pb	625 BN+10 TICs					Comments: Please specify any special reporting requirements
RSmw-1	8/3/05	12:15	GW	X	X	X		X	X	X	X	X	X					City of Greensboro Project
Trip Blank	↓	-	↓	X				X										
																		G161-2104

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	8/3/05	3:30	[signature]	8/4/05	10:30	1-2°C	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: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1B
Lab Project ID: G161-2104

Analyzed By: MJC
Date Collected: 8/3/2005 12:15
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	**1.02**	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	**3.67**	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	**1.25**	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	**7.29**	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	**35.5**	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	**5.12**	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	**3.67**	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: _____

Results for Volatiles
by GC 601

Client Sample ID: Trip Blank
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-2A
Lab Project ID: G161-2104

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	40.6	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1B
Lab Project ID: G161-2104

Analyzed By: MJC
Date Collected: 8/3/2005 12:15
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	40.6	102

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: Sierra Property
Lab Sample ID: G161-2104-2A
Lab Project ID: G161-2104

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	40.3	101

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: 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: _____

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: _____

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
Trichloroflurometh ane	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: RAW

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: [illegible]

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	RSMW-1	G161-2104-1A	013F0101.D	103	70 - 130	0
02	Trip Blank	G161-2104-2A	010F0101.D	101	70 - 130	0
03						
04						
05						
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S1 (DCB) = 1,4-dichlorobutane

Paradigm Analytical Laboratories, INC.

IV

601 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1081005A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab Sample ID: VBLK1081005A Lab File ID: 008F0101.D

Date Analyzed: 2005-08-10 Instrument ID: GC1

Time Analyzed: 12:37 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	G161-2104-2A	010F0101.D	2005-08-10 13:39
02	G161-2104-1B	G161-2104-1B	013F0101.D	2005-08-10 15:12
03				
04				
05				
06				
07				
08				
09				
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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	RSMW-1	G161-2104-1A	013R0101.D	102	70 - 130	0
02	Trip Blank	G161-2104-2A	010R0101.D	101	70 - 130	0
03						
04						
05						
06						
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S1 (TFT) = trifluorotoluene

Paradigm Analytical Laboratories, INC.

IV

602 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1081005A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab Sample ID: VBLK1081005A Lab File ID: 008R0101 D

Date Analyzed: 2005-08-10 Instrument ID: GC1

Time Analyzed: 12:37 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	G161-2104-2A	010R0101.D	2005-08-10 13:39
02	G161-2104-1B	G161-2104-1B	013R0101.D	2005-08-10 15:12
03				
04				
05				
06				
07				
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COMMENTS:

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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	8.9	89
Nitrobenzene-d5	10	9.5	95
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 of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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	Unknown	19.36			867
2	Unknown	20.80			689
3	Unknown	22.86			236
4	Unknown	18.05			223
5	Know Compound peak (added by lab)	11.66			160
6	Know Solvent peak (added by lab)	3.71			136
7	Unknown	19.89			114
8	Unknown	21.53			75.3
9	Unknown	16.59			52.4
10	Unknown	9.23			46.8

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: [illegible]

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	RSMW-1	95	89	138				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								
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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	RSMW-1	G161-2104-1N	0812622.D	08/12 19:38
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06				
07				
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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	RSMW-1	G161-2104-1N	0812622.D	08/12/05	19:38
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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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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

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
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.

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

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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	RSMW-1	148508	6.8	520952	8.72	334610	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	RSMW-1	475359	13.88	232428	18.12	126244	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: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	08/03/05
Date Received	08/04/05
Date Extracted	08/09/05
Date Analyzed	08/09/05
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: g161-2104-1e

Reviewed By: _____

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	08/09/05
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	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: vblk4080905a

Reviewed By: _____

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	8/9/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4080905	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		310			
C_9-C_{12} Aliphatics		130			
C_9-C_{10} Aromatics		65			
Gasoline	500	505	101	70	130

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	8/9/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC4080905	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	49	430	390
C_9-C_{12} Aliphatics	520	510	540
C_9-C_{10} Aromatics	530	450	500

		Total	%Rec	Total	%Rec	RPD
Gasoline	1099	1390	58%	1430	66%	12.9

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	RSMW-1	G161-2104-1E	013F0101.D	96	97	70-130	0
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
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24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							

S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

VPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4080905A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

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

Lab Sample ID: VBLK4080905A Lab File ID: 005F0101.D

Date Analyzed: 2005-08-09 Instrument ID: GC4

Time Analyzed: 10:15 GC Column:

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

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	RSMW-1	G161-2104-1E	013F0101.D	2005-08-09 14:30
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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34				
35				

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	10	10
C_9-C_{10} Aromatics	0.13	0.41	10	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: 08/09/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	13.3
C_9-C_{12} Aliphatics	500	50	6.2
C_9-C_{10} Aromatics	500	50	-7.2

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: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-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	64
Aromatic Surrogate % Recovery	76
Fractionation Surrogate 1 % Recovery	120

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2104-1O

Reviewed By: [illegible]

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	RSMW-1	G161-2104-10	64	76	120	40 - 140	0
02							
03							
04							
05							
06							
07							
08							
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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.

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	RSMW-1	G161-2104-1O
02	G161-2104-1P MS	G161-2104-1P MS
03	G161-2104-1Q MSD	G161-2104-1Q MSD
04		
05		
06		
07		
08		
09		
10		
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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: 08/16/05

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:	RSMW-1	Analyzed By:	CLP
Client Project ID:	Sierra Property	Date Collected:	8/3/05 12:15
Lab Sample ID:	G161-2104-1R	Date Received:	8/4/05 10:30
Lab Project ID:	G161-2104	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0191	1	8/15/05

Reviewed By: _____

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: _____

8011_LIMS_1 32

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:	RSMW-1	Analyzed By:	RML
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 12:15
Lab Sample ID:	G161-2104-1	Date Received:	8/4/05
Lab Project ID:	G161-2104	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: DW

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: DW

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

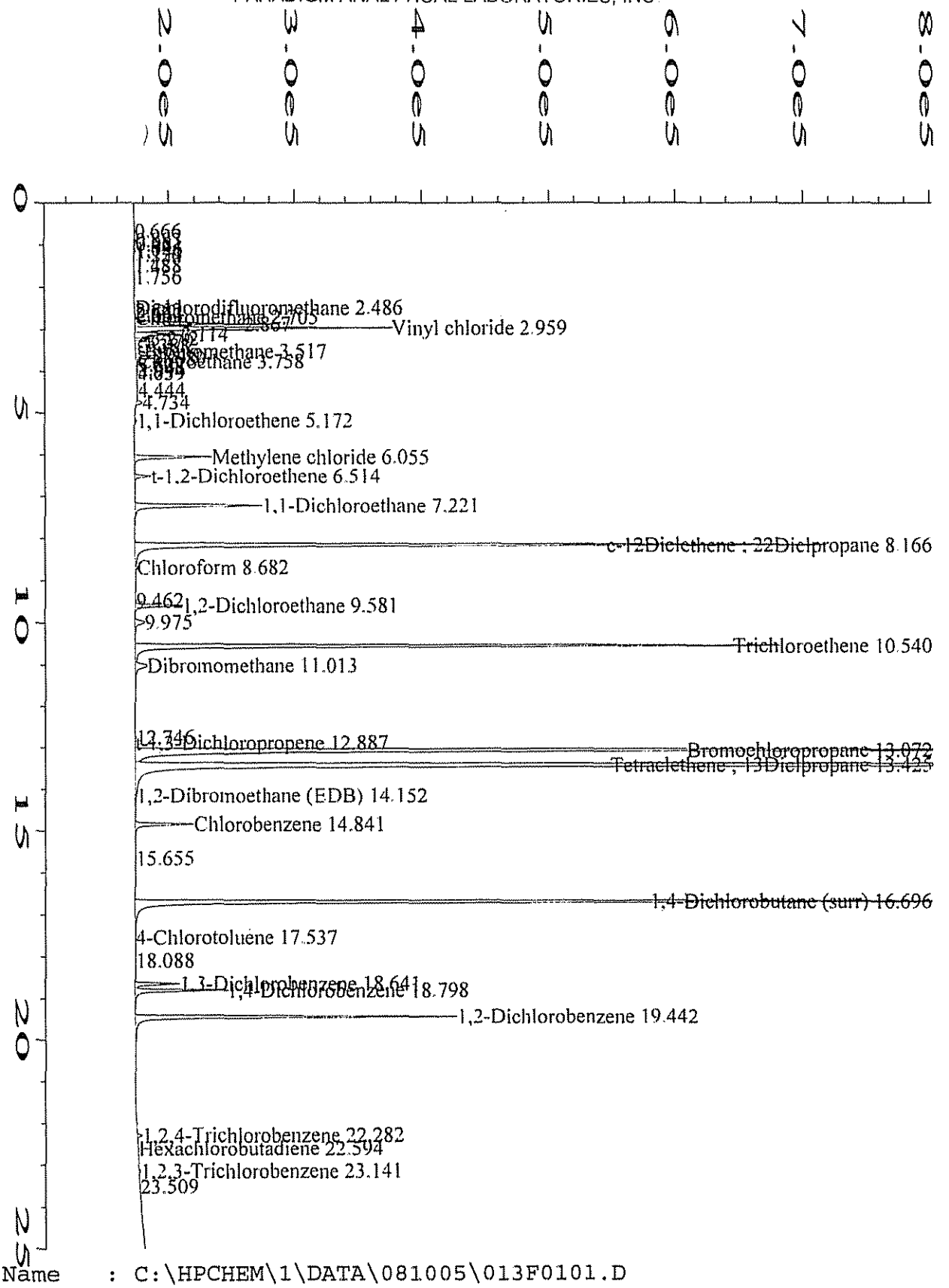
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\013F0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2104-1b
un Time Bar Code:
cquired on : 10 Aug 05 03:12 PM
eport Created on: 10 Aug 05 03:37 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 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

ig. 1 in C:\HPCHEM\1\DATA\081005\013F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.486	1870	VV	0.041	1	-0.0935	Dichlorodifluoromethane
2.705	1800	VV	0.033	1	-0.608	Chloromethane
2.959	656258	VV	0.046	1	3.665	Vinyl chloride
3.517	21457	VV	0.046	1	0.500	Bromomethane
3.758	4658	VV	0.054	1	-0.429	Chloroethane
4.208	* not found *			1		Trichlorofluoromethane
5.172	6691	PB	0.062	1	-0.166	1,1-Dichloroethene
6.055	212612	BV	0.054	1	0.353	Methylene chloride
6.514	46282	PV	0.054	1	-0.0105	t-1,2-Dichloroethene
7.221	419918	BV	0.065	1	1.251	1,1-Dichloroethane
8.166	1987194	PV	0.056	1	7.293	c-12Diclethene ; 22Diclpropane
8.536	* not found *			1		Bromochloromethane
8.682	9554	VB	0.121	1	-0.204	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.581	131939	VV	0.056	1	0.349	1,2-Dichloroethane
10.540	1845181	PV	0.057	1	5.120	Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.013	87319	VB	0.142	1	0.984	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.887	1694	VV	0.063	1	-0.0648	t-1,3-Dichloropropene
13.072	3319733	VV	0.062	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.425	7037392	VV	0.056	1	35.503	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.152	14932	VV	0.145	1	0.252	1,2-Dibromoethane (EDB)
14.841	169685	VV	0.055	1	1.016	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.696	2463162	BV	0.054	1	103.333	1,4-Dichlorobutane (surr)
17.023	* not found *			1		Brbenzene;123triclprop;1122tet
17.339	* not found *			1		2-Chlorotoluene
17.537	3156	VV	0.150	1	-0.1494	-Chlorotoluene
18.641	117498	BV	0.051	1	0.419	1,3-Dichlorobenzene
18.798	260083	VV	0.054	1	0.820	1,4-Dichlorobenzene
19.442	892791	PV	0.052	1	3.665	1,2-Dichlorobenzene
20.818	* not found *			1		1,2-Dibromo-3-chloropropane
22.282	15101	PV	0.060	1	0.0824	1,2,4-Trichlorobenzene
22.594	2030	PV	0.059	1	-0.111	Hexachlorobutadiene
23.141	7275	PV	0.075	1	0.0171	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\013F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 13
Sample Name	: g161-2104-1b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 03:12 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 03:37 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\010F0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2104-2a
un Time Bar Code:
cquired on : 10 Aug 05 01:39 PM
eport Created on: 10 Aug 05 02:04 PM
ast Recalib on : 03 AUG 05 10:02 AM
ultiplier : 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

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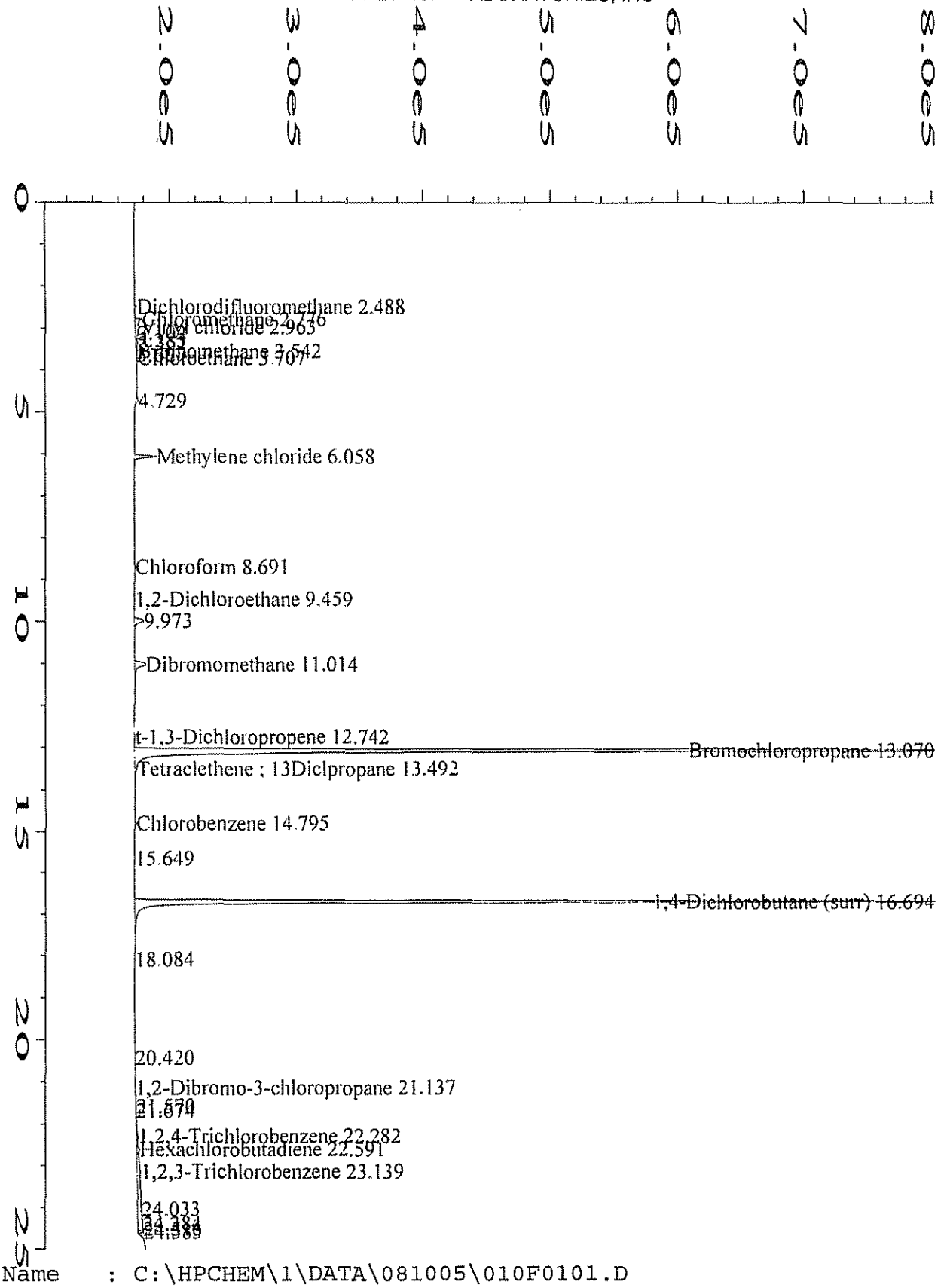
ig. 1 in C:\HPCHEM\1\DATA\081005\010F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.488	4228	BV	0.037	1	-0.0787	Dichlorodifluoromethane
2.776	32364	PV	0.080	1	-0.471	Chloromethane
2.963	25060	VV	0.084	1	-0.373	Vinyl chloride
3.542	8557	VV	0.092	1	0.347	Bromomethane
3.707	3916	VB	0.058	1	-0.434	Chloroethane
4.208	* not found *			1		Trichlorofluoromethane
5.152	* not found *			1		1,1-Dichloroethene
6.058	61396	PV	0.055	1	-0.122	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
8.691	2384	BV	0.071	1	-0.223	Chloroform
8.917	* not found *			1		1,1,1-Trichloroethane
9.188	* not found *			1		Carbon Tetracl ; 11Diclpropene
9.459	2651	BB	0.064	1	-0.247	1,2-Dichloroethane
10.528	* not found *			1		Trichloroethene
10.889	* not found *			1		1,2-Dichloropropane
11.014	76854	PV	0.136	1	0.887	Dibromomethane
11.333	* not found *			1		Bromodichloromethane
12.035	* not found *			1		c-1,3-Dichloropropene
12.742	2889	BB	0.064	1	-0.0575	t-1,3-Dichloropropene
13.070	3342464	VV	0.063	1-I	40.000	Bromochloropropane
13.219	* not found *			1		1,1,2-Trichloroethane
13.492	16489	VV	0.149	1	-0.862	Tetraclethene ; 13Diclpropane
13.847	* not found *			1		Dibromochloromethane
14.026	* not found *			1		1,2-Dibromoethane (EDB)
14.795	4743	BV	0.074	1	-0.0856	Chlorobenzene
14.963	* not found *			1		1,1,1,2-Tetrachloroethane
16.204	* not found *			1		Bromoform
16.694	2433716	PV	0.054	1	101.403	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
21.137	3431	PV	0.164	1	0.414	1,2-Dibromo-3-chloropropane
22.282	25981	VV	0.226	1	0.121	1,2,4-Trichlorobenzene
22.591	26082	VV	0.141	1	-0.0419	Hexachlorobutadiene
23.139	57592	VV	0.257	1	0.220	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\081005\010F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 10
Sample Name	: g161-2104-2a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 01:39 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 02:04 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\013R0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2104-1b
un Time Bar Code:
cquired on : 10 Aug 05 03:12 PM
eport Created on: 10 Aug 05 03:38 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 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

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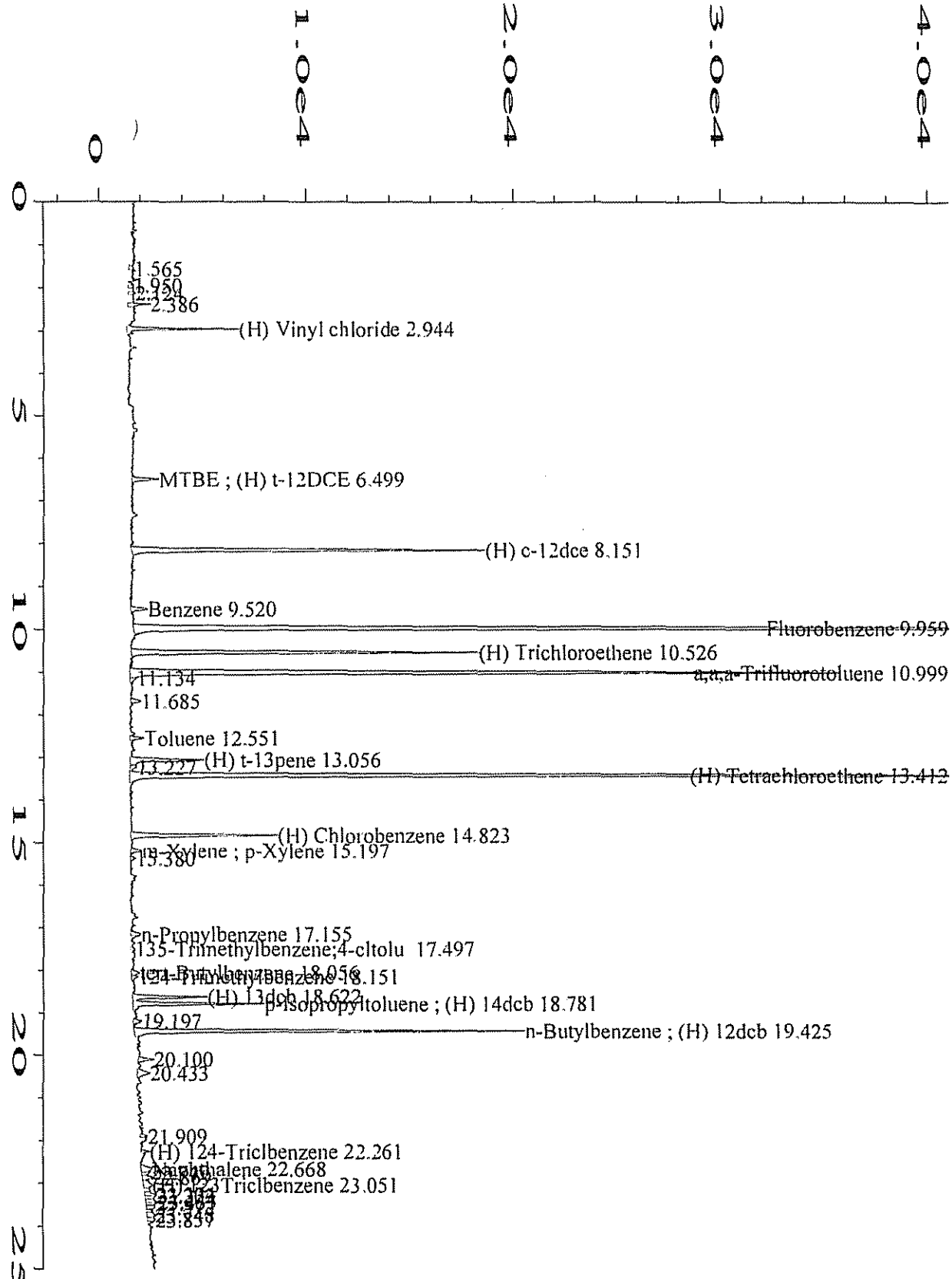
et Time	Area	Type	Width	Ref#	µg/L	Name
2.944	13464	VV	0.037	1	~~3.583~~	(H) Vinyl chloride
5.140	* not found *			1		(H) 1,1-Dichloroethene
6.499	4953	VV	0.054	1	~~0.342~~	MTBE ; (H) t-12DCE
7.329	* not found *			1		DIPE
8.151	62578	PV	0.057	1	~~6.520~~	(H) c-12dce
9.179	* not found *			1		(H) 11-Diclpropene
9.520	3351	PV	0.053	1	~~0.197~~	Benzene
9.959	256705	VV	0.057	1-I	40.000	Fluorobenzene
10.526	60370	VV	0.055	1	~~4.913~~	(H) Trichloroethene
10.999	139405	VV	0.062	1	101.570	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.551	2545	VV	0.052	1	~~0.199~~	Toluene
13.056	14946	VV	0.061	1	~~3.066~~	(H) t-13pene
13.412	169510	VV	0.057	1	~~17.084~~	(H) Tetrachloroethene
14.823	24925	PV	0.053	1	~~1.194~~	(H) Chlorobenzene
15.002	* not found *			1		Ethylbenzene
15.197	2300	VV	0.051	1	~~0.338~~	m-Xylene ; p-Xylene
15.878	* not found *			1		o-Xylene ; Styrene
16.486	* not found *			1		Isopropylbenzene
16.990	* not found *			1		(H) Bromobenzene
17.155	2279	PV	0.058	1	0.253	n-Propylbenzene
17.328	* not found *			1		(H) 2Cltoluene
17.497	1240	VV	0.082	1	0.529	135-Trimethylbenzene;4-cltolu
18.056	2143	VV	0.071	1	0.371	tert-Butylbenzene
18.151	1449	VV	0.056	1	0.375	124-Trimethylbenzene
18.436	* not found *			1		sec-Butylbenzene
18.622	13048	VV	0.055	1	0.763	(H) 13dcb
18.781	21937	VV	0.052	1	2.174	p-Isopropyltoluene ; (H) 14dcb
19.425	64551	PV	0.053	1	4.283	n-Butylbenzene ; (H) 12dcb
22.261	1175	PV	0.038	1	0.520	(H) 124-Triclbenzene
22.563	* not found *			1		(H) Hexaclbutadiene
22.668	4047	BV	0.092	1	0.710	Naphthalene
23.051	3584	VV	0.111	1	0.782	(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\013R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 13
Sample Name	: g161-2104-1b	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 03:12 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	10 Aug 05 03:38 PM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

PARADIGM ANALYTICAL LABORATORIES, INC.

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\081005\010R0101.D
perator : MJC
nstrument : GC1
ample Name : g161-2104-2a
un Time Bar Code:
cquired on : 10 Aug 05 01:39 PM
eport Created on: 10 Aug 05 02:04 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 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

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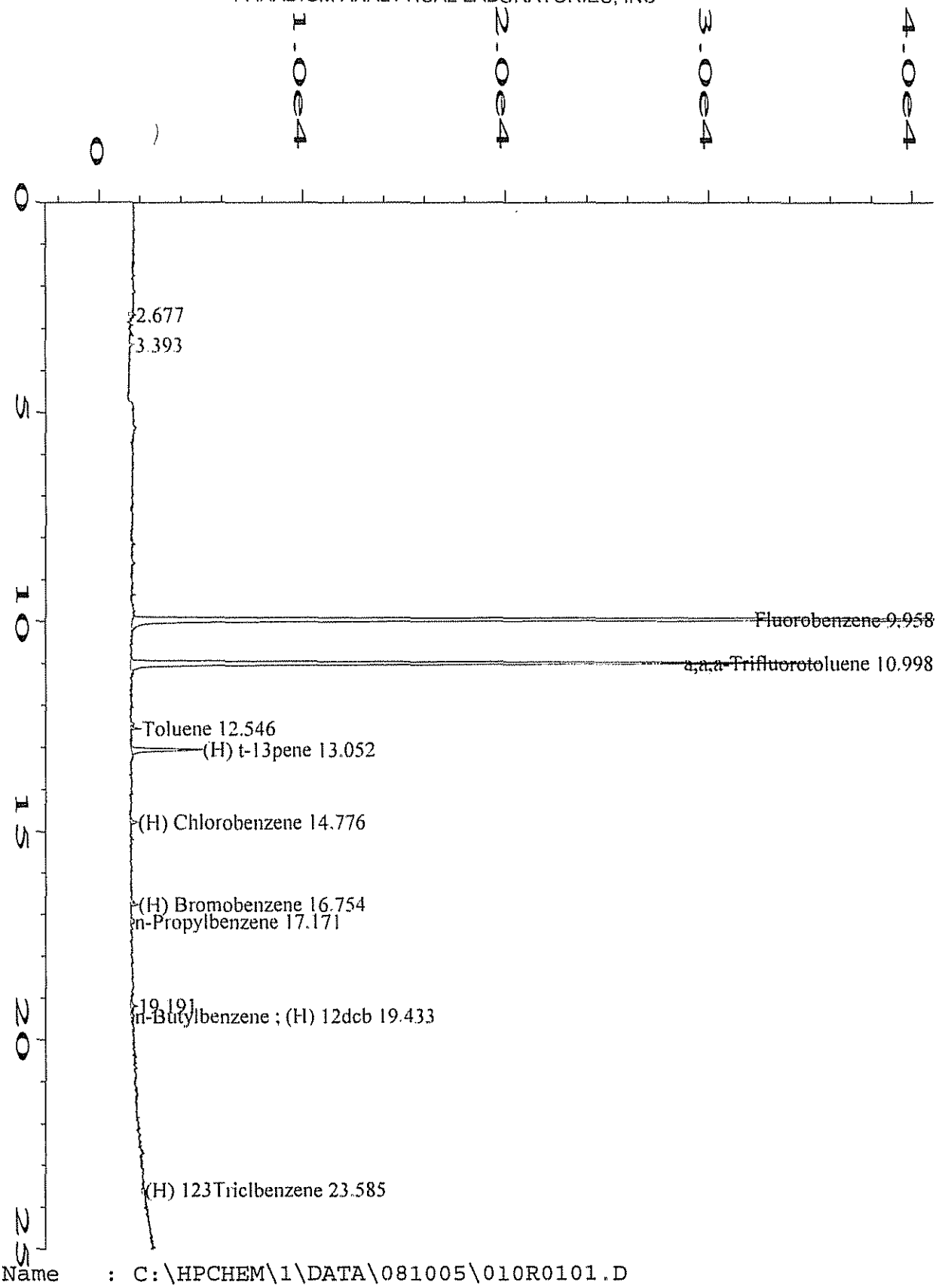
ig. 2 in C:\HPCHEM\1\DATA\081005\010R0101.D

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
9.958	258331	PV	0.059	1-I	40.000	Fluorobenzene
10.516	* not found *			1		(H) Trichloroethene
10.998	139098	VV	0.063	1	100.708	a,a,a-Trifluorotoluene
12.023	* not found *			1		(H) c-13pene
12.546	1094	VV	0.028	1	~~0.133~~	Toluene
13.052	13534	PV	0.049	1	~~2.759~~	(H) t-13pene
13.404	* not found *			1		(H) Tetrachloroethene
14.776	1585	VV	0.051	1	~~0.169~~	(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
16.754	1330	VV	0.045	1	0.196	(H) Bromobenzene
17.171	1134	VV	0.100	1	0.198	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	1015	VV	0.073	1	~~0.760~~	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
23.585	1171	VV	0.078	1	~~0.587~~	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\081005\010R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 10
Sample Name	: g161-2104-2a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Aug 05 01:39 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 10 Aug 05 02:04 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

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-Diclpropene				
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.

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

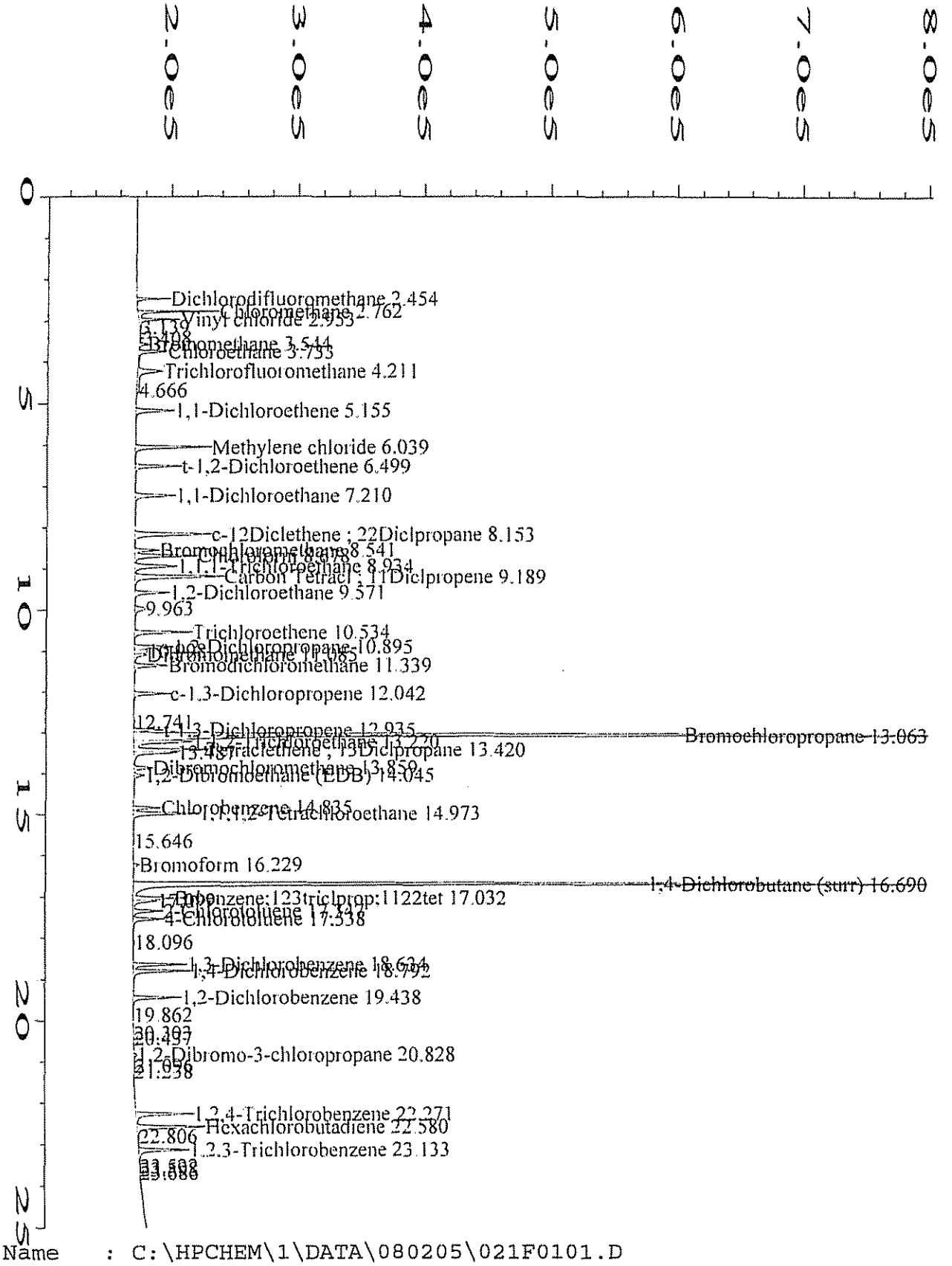
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\021F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v0.5
Run Time Bar Code:
Acquired on : 02 Aug 05 05:28 PM
Report Created on: 03 Aug 05 10:17 AM
Last Recalib on : 03 AUG 05 10:02 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\080205\021F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\021F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: v0.5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:28 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

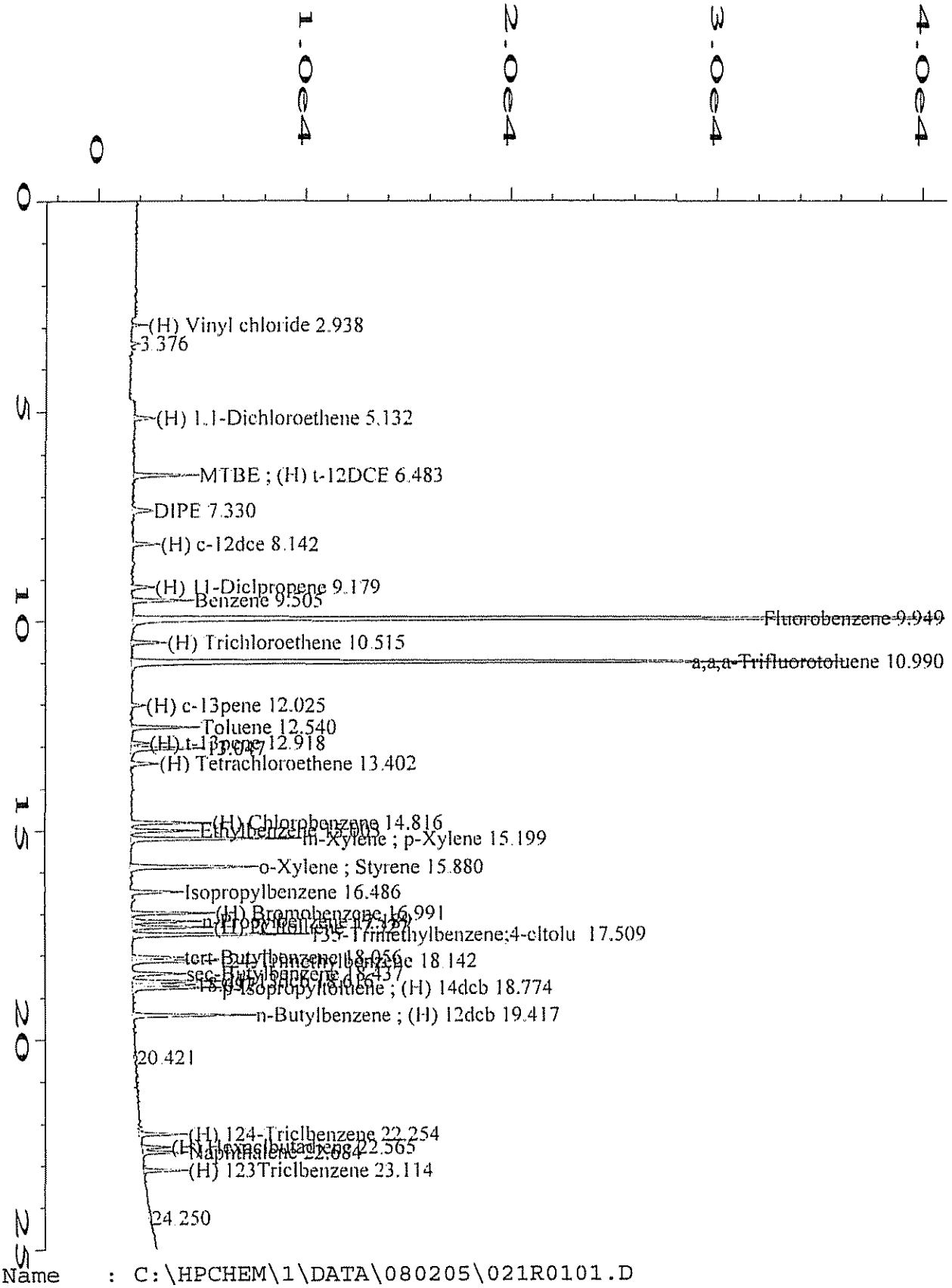
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\021R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: v0.5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:28 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\021R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



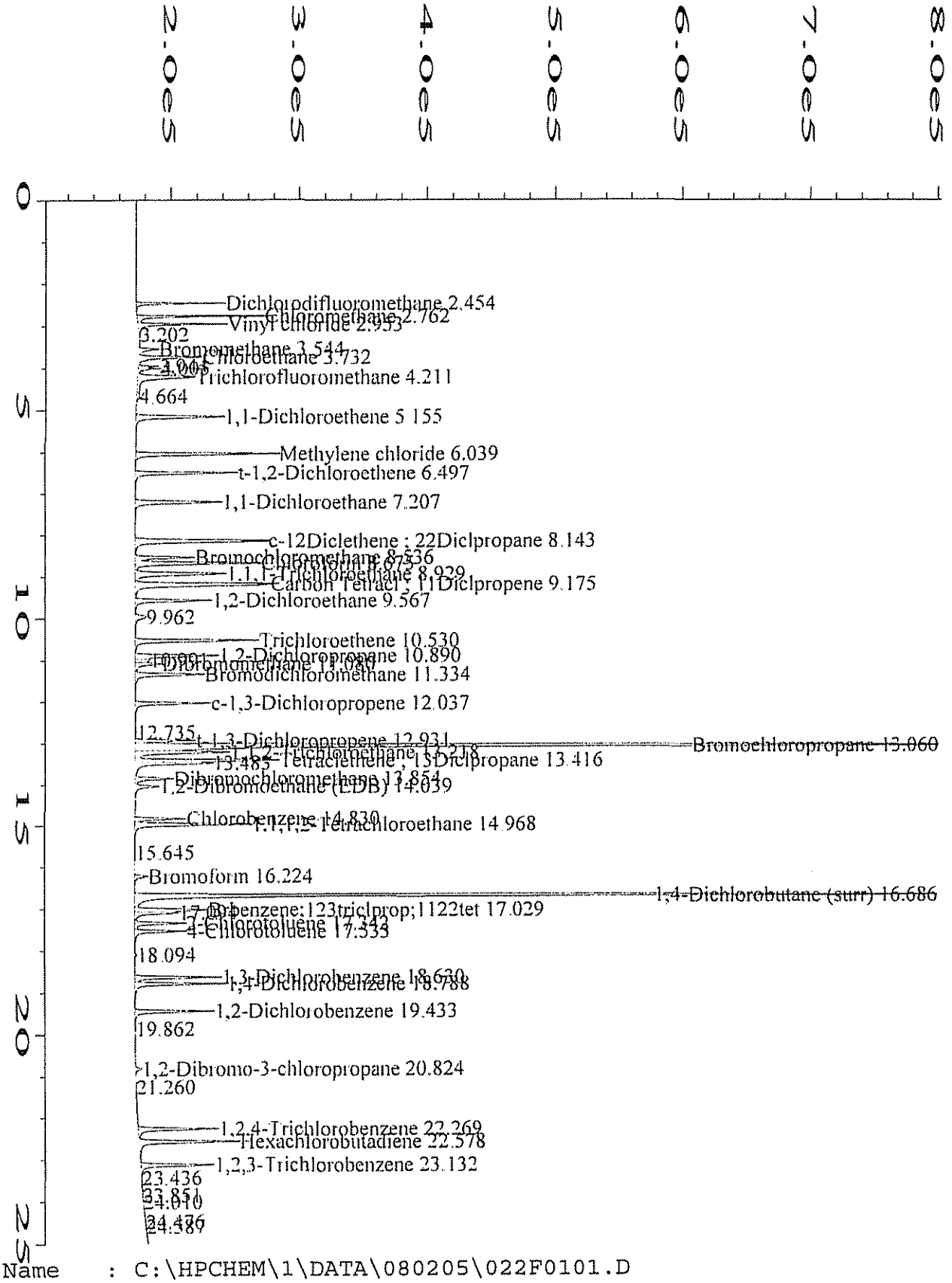
Data File Name	: C:\HPCHEM\1\DATA\080205\021R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 21
Sample Name	: v0.5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:28 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\022F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:59 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 1 in C:\HPCHEM\1\DATA\080205\022F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\022F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:59 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

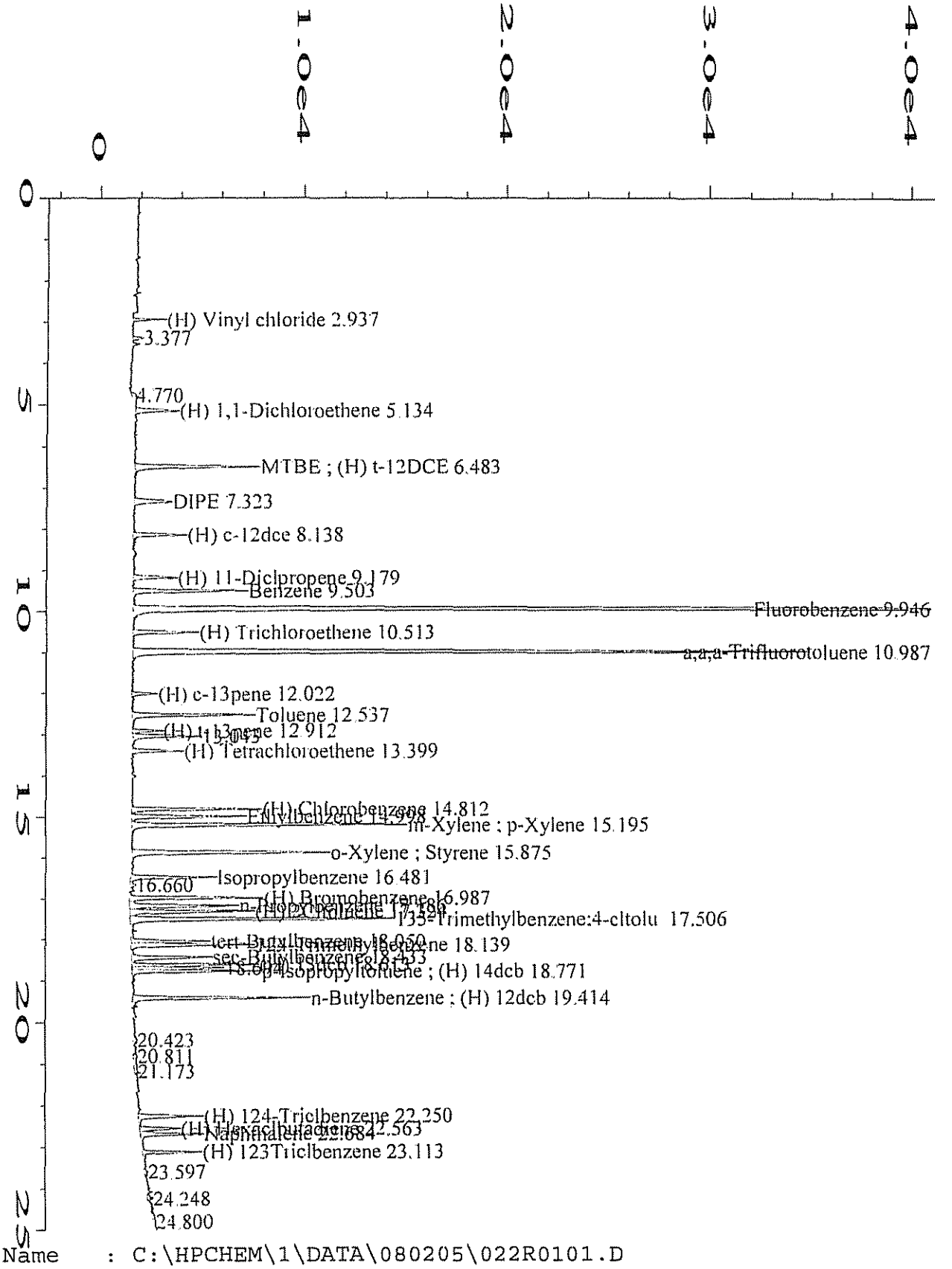
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\022R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:59 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\022R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\022R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 22
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 05:59 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

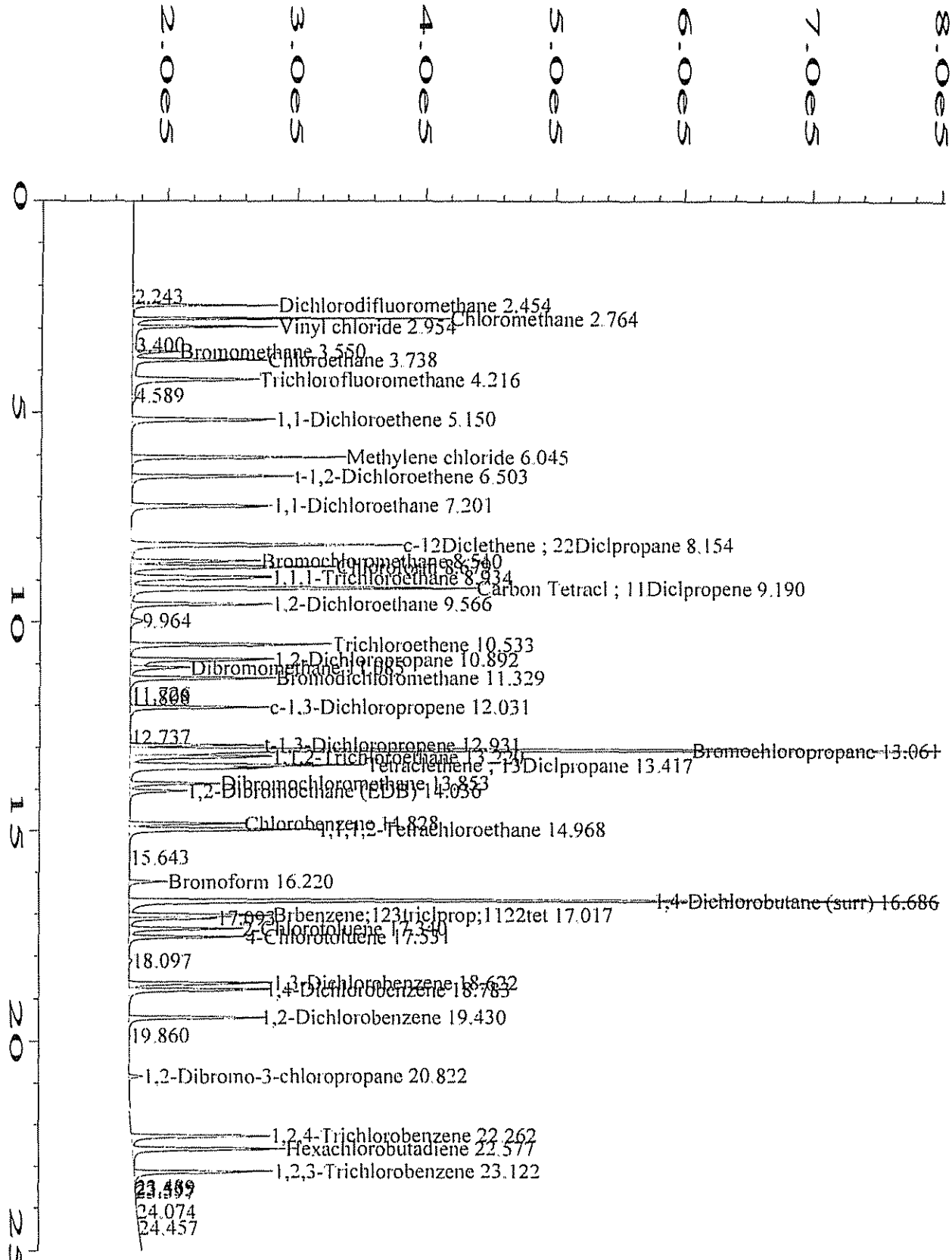
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\023F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v2
Run Time Bar Code:
Acquired on : 02 Aug 05 06:31 PM
Report Created on: 03 Aug 05 10:17 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 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

Sig. 1 in C:\HPCHEM\1\DATA\080205\023F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\023F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 06:31 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

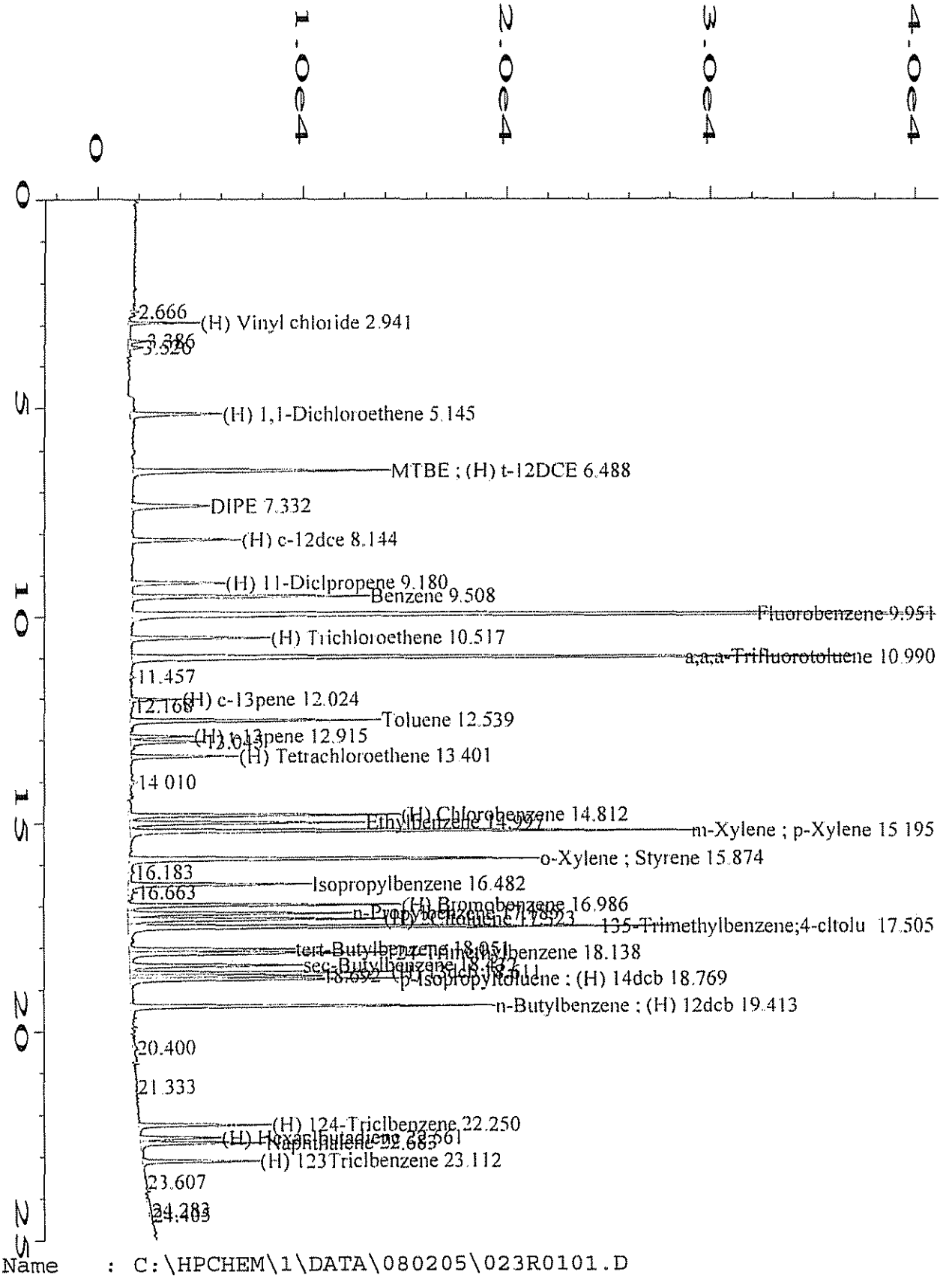
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\023R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 06:31 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\023R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\023R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 23
Sample Name	: v2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 06:31 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

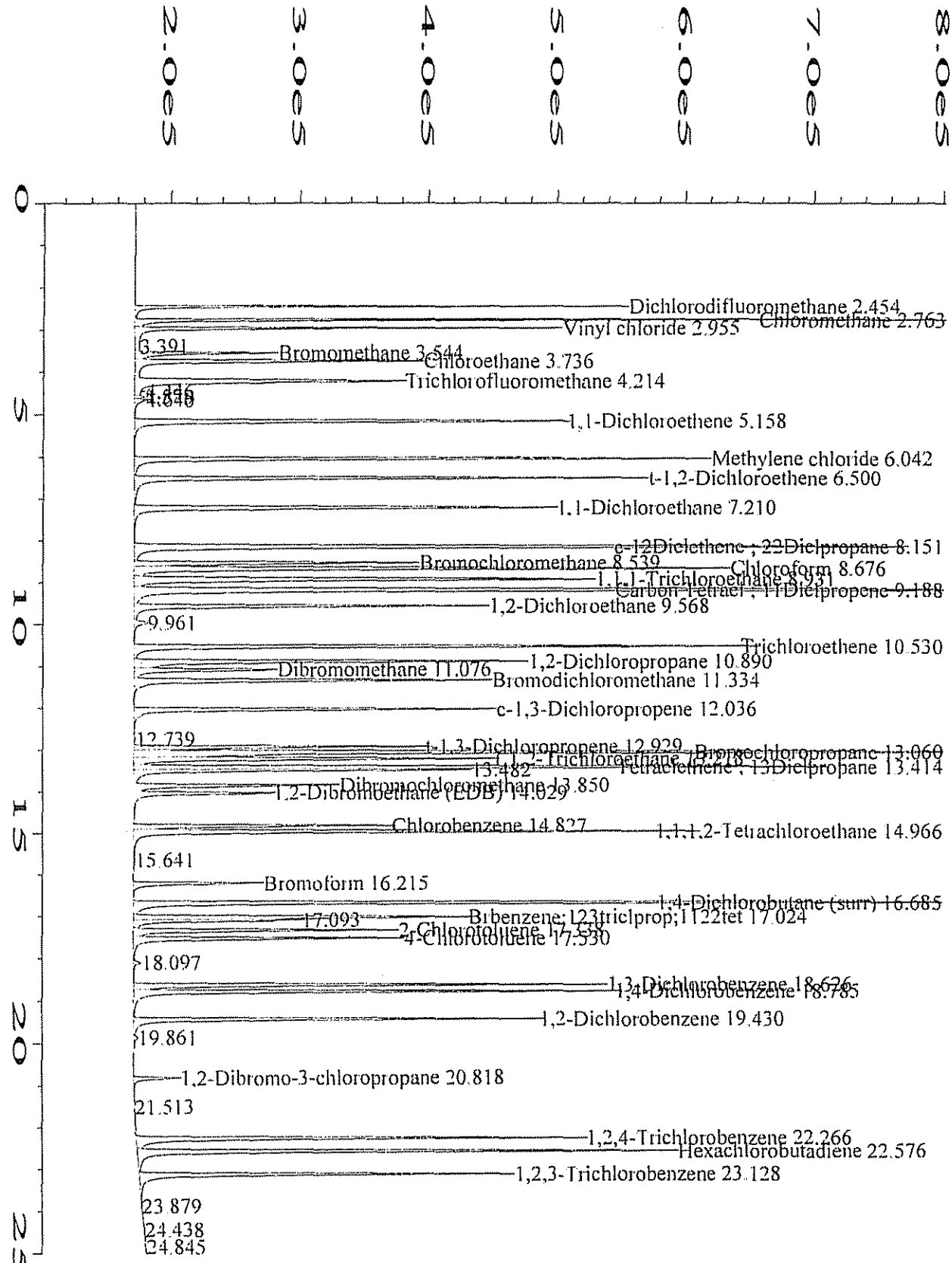
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\024F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v5
Run Time Bar Code:
Acquired on : 02 Aug 05 07:02 PM
Report Created on: 03 Aug 05 10:17 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 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

Sig. 1 in C:\HPCHEM\1\DATA\080205\024F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\024F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 24
Sample Name	: v5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 07:02 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:17 AM	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

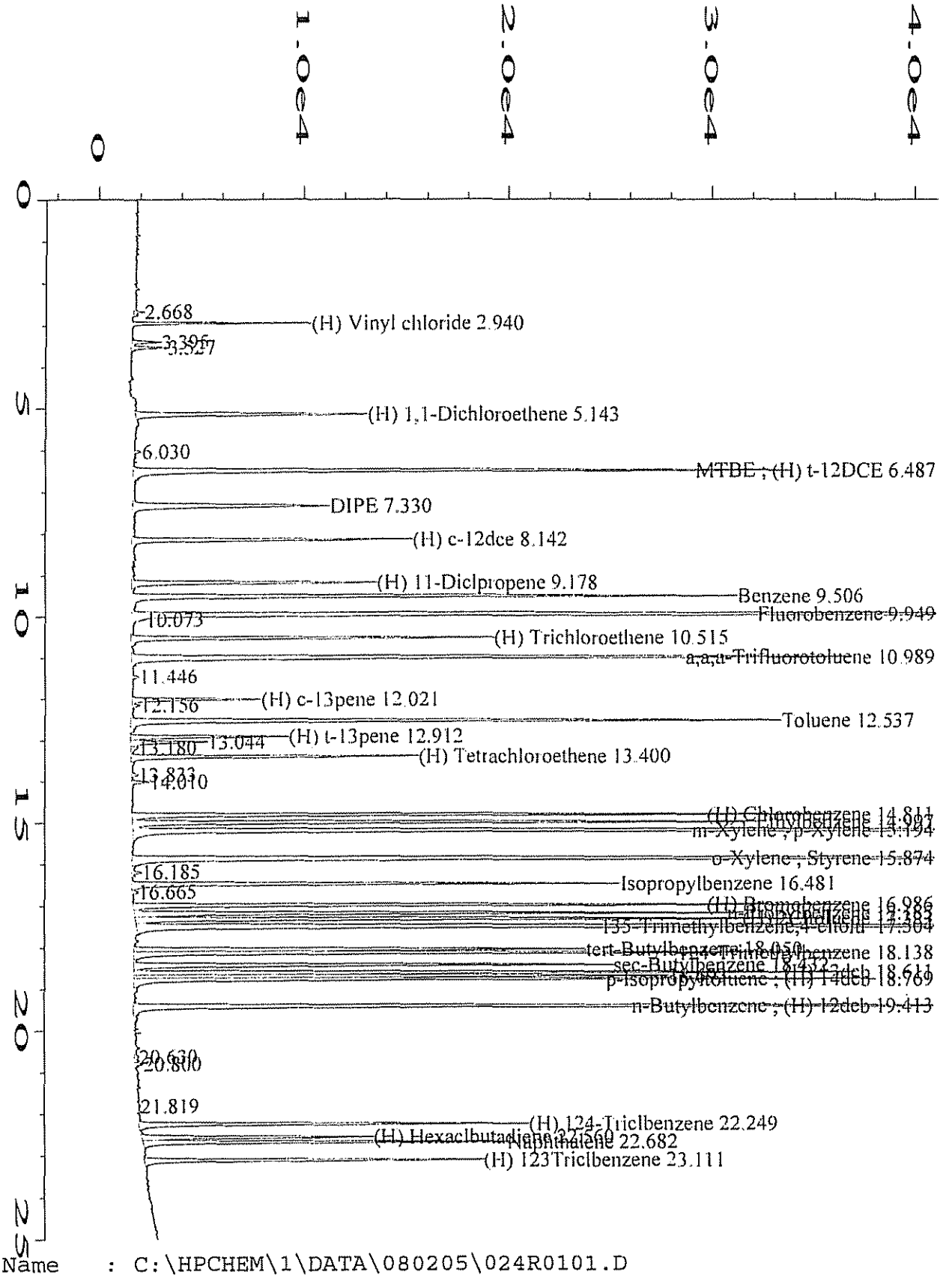
Data File Name : C:\HPCHEM\1\DATA\080205\024R0101.D
Operator : MJC
Instrument : GC1
Sample Name : v5
Run Time Bar Code:
Acquired on : 02 Aug 05 07:02 PM
Report Created on: 03 Aug 05 10:18 AM
Last Recalib on : 03 AUG 05 09:47 AM
Multiplier : 1

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

Sig. 2 in C:\HPCHEM\1\DATA\080205\024R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\024R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 24
Sample Name	: v5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 07:02 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

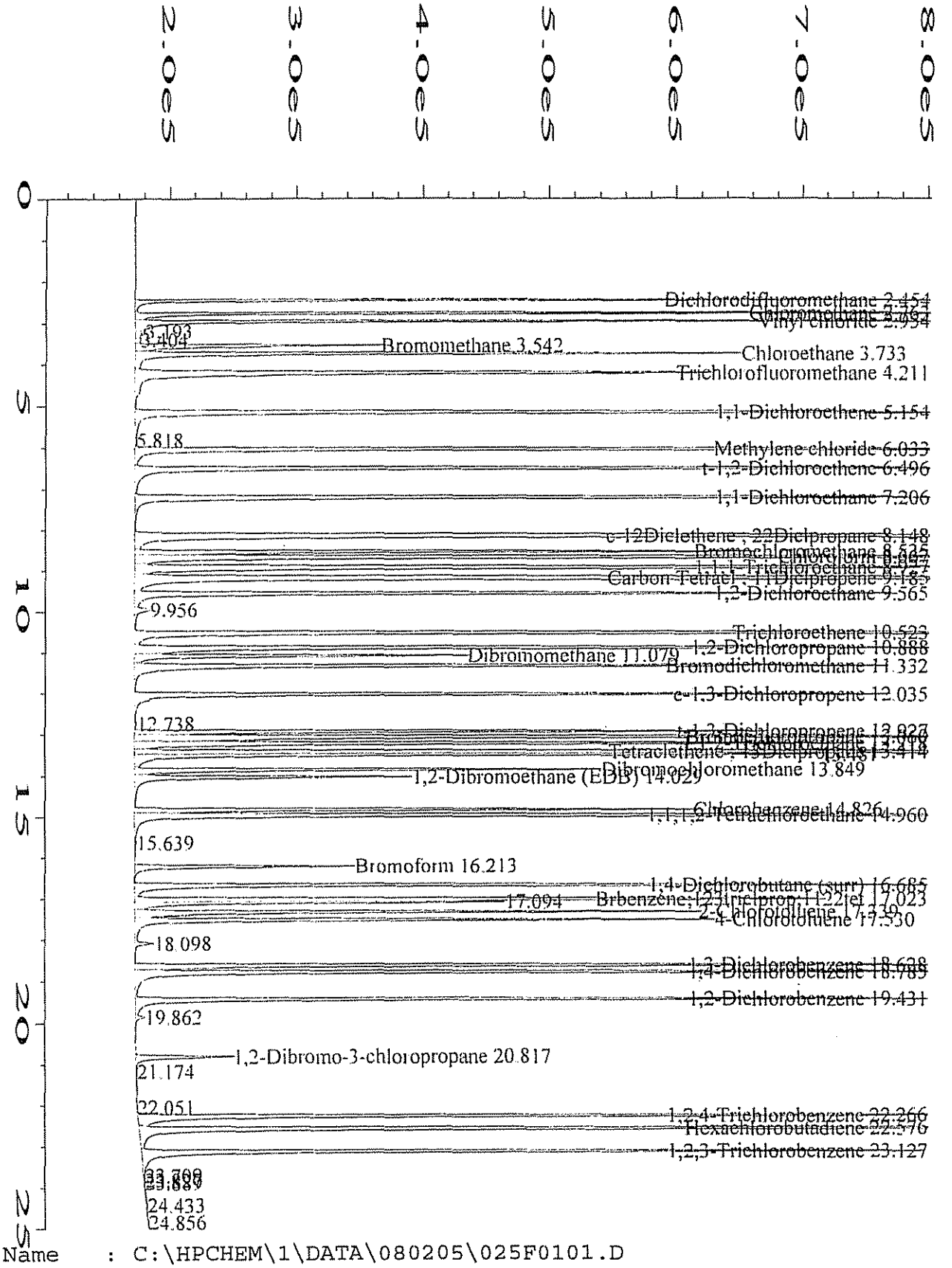
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\025F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v10
Run Time Bar Code:
Acquired on : 02 Aug 05 07:34 PM
Report Created on: 03 Aug 05 10:18 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 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

Sig. 1 in C:\HPCHEM\1\DATA\080205\025F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\025F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 07:34 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

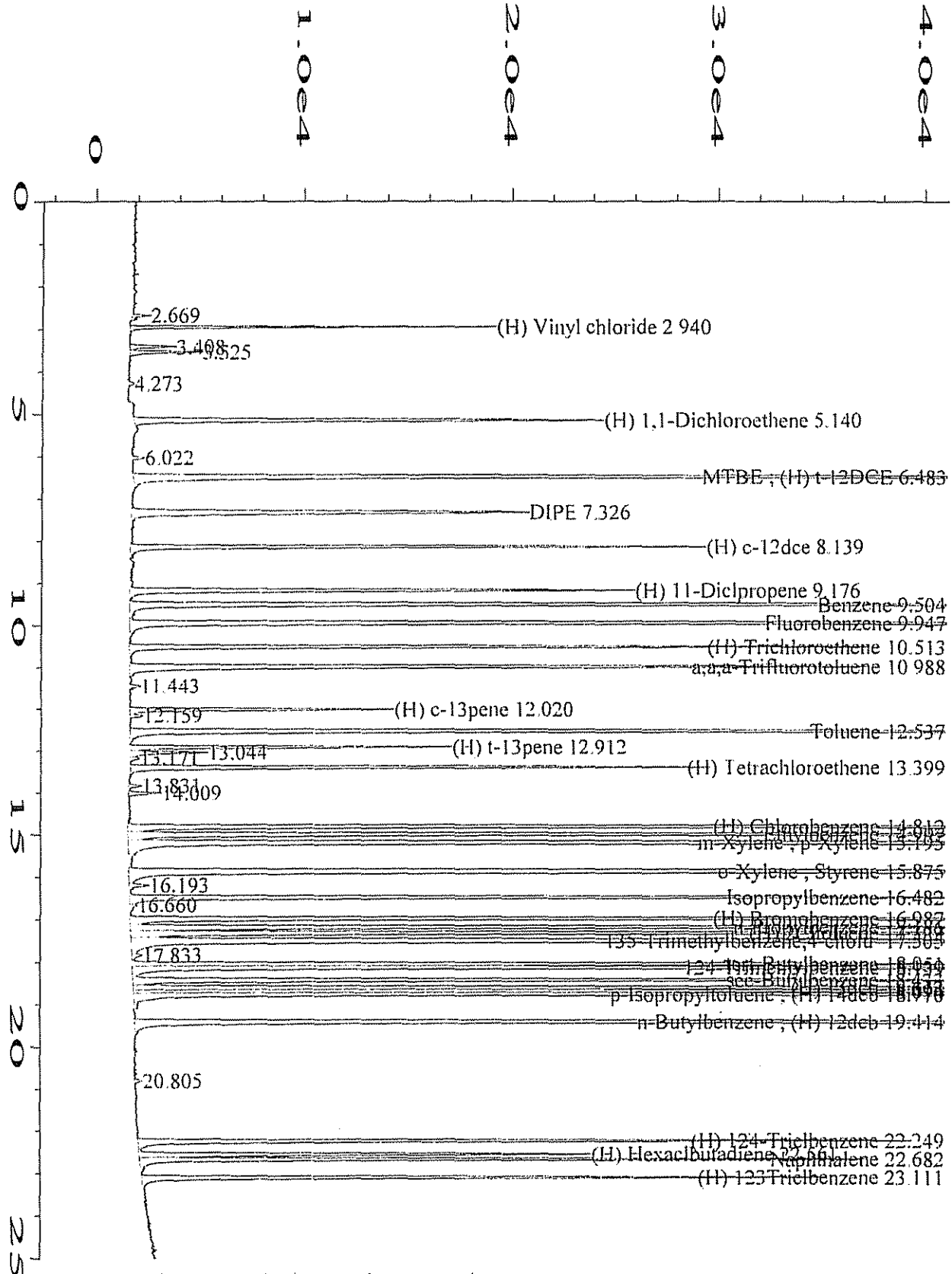
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\025R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 07:34 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\025R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\025R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 25
Sample Name	: v10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 07:34 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

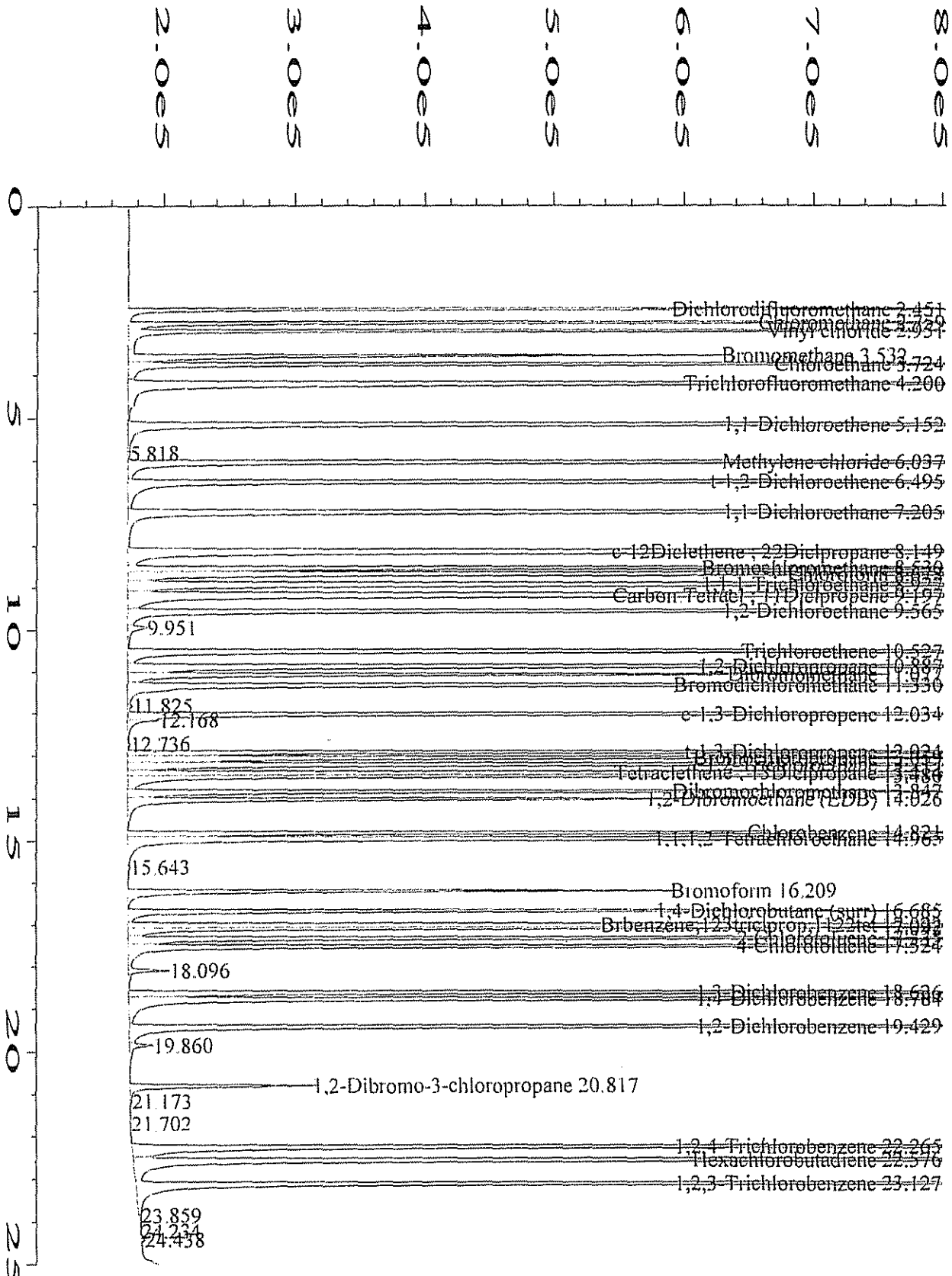
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\026F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v20
Run Time Bar Code:
Acquired on : 02 Aug 05 08:05 PM
Report Created on: 03 Aug 05 10:18 AM
Last Recalib on : 03 AUG 05 10:02 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\080205\026F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\026F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 26
Sample Name	: v20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:05 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

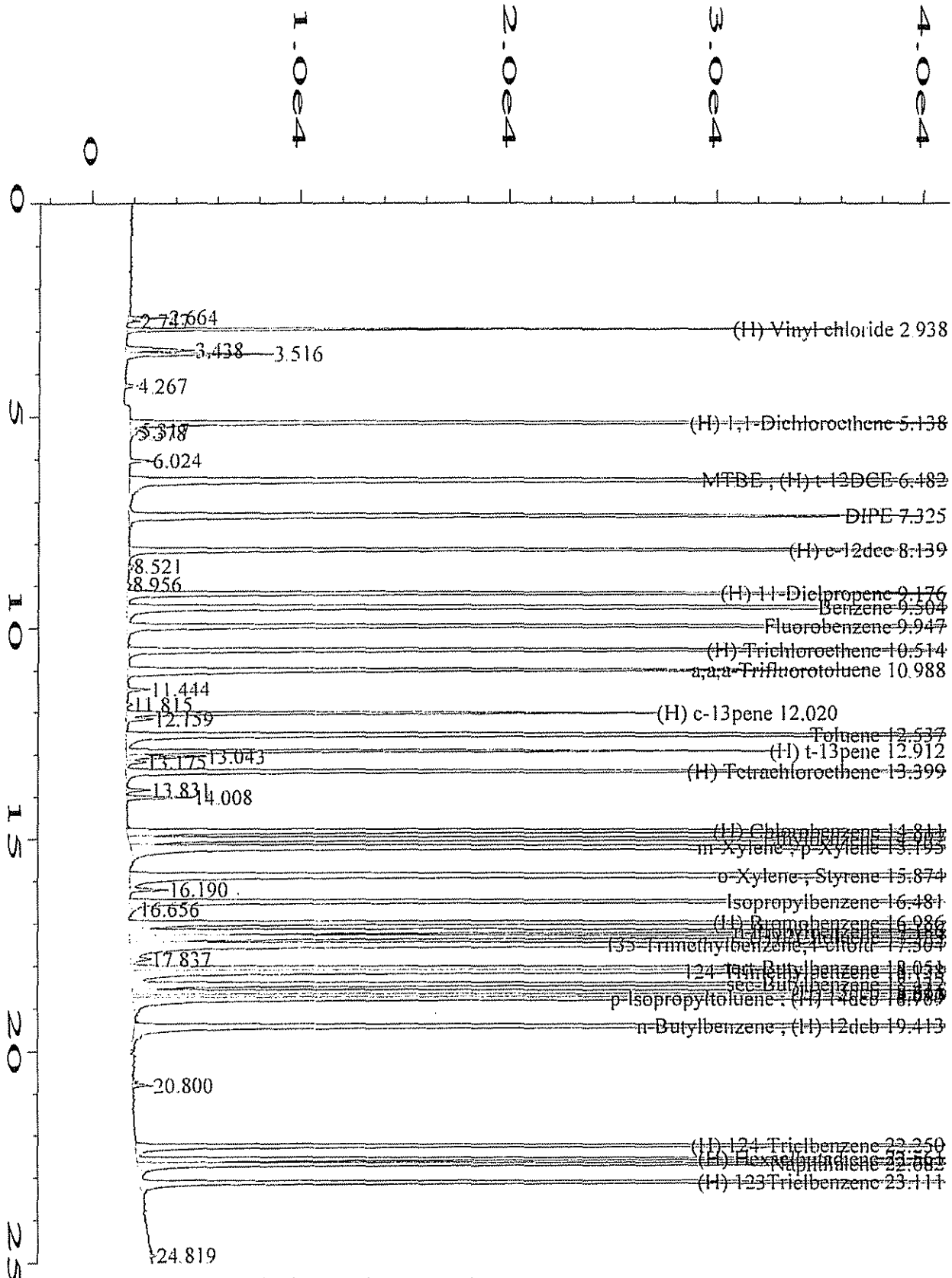
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\026R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 26
Sample Name	: v20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:05 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\026R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\026R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 26
Sample Name	: v20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:05 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

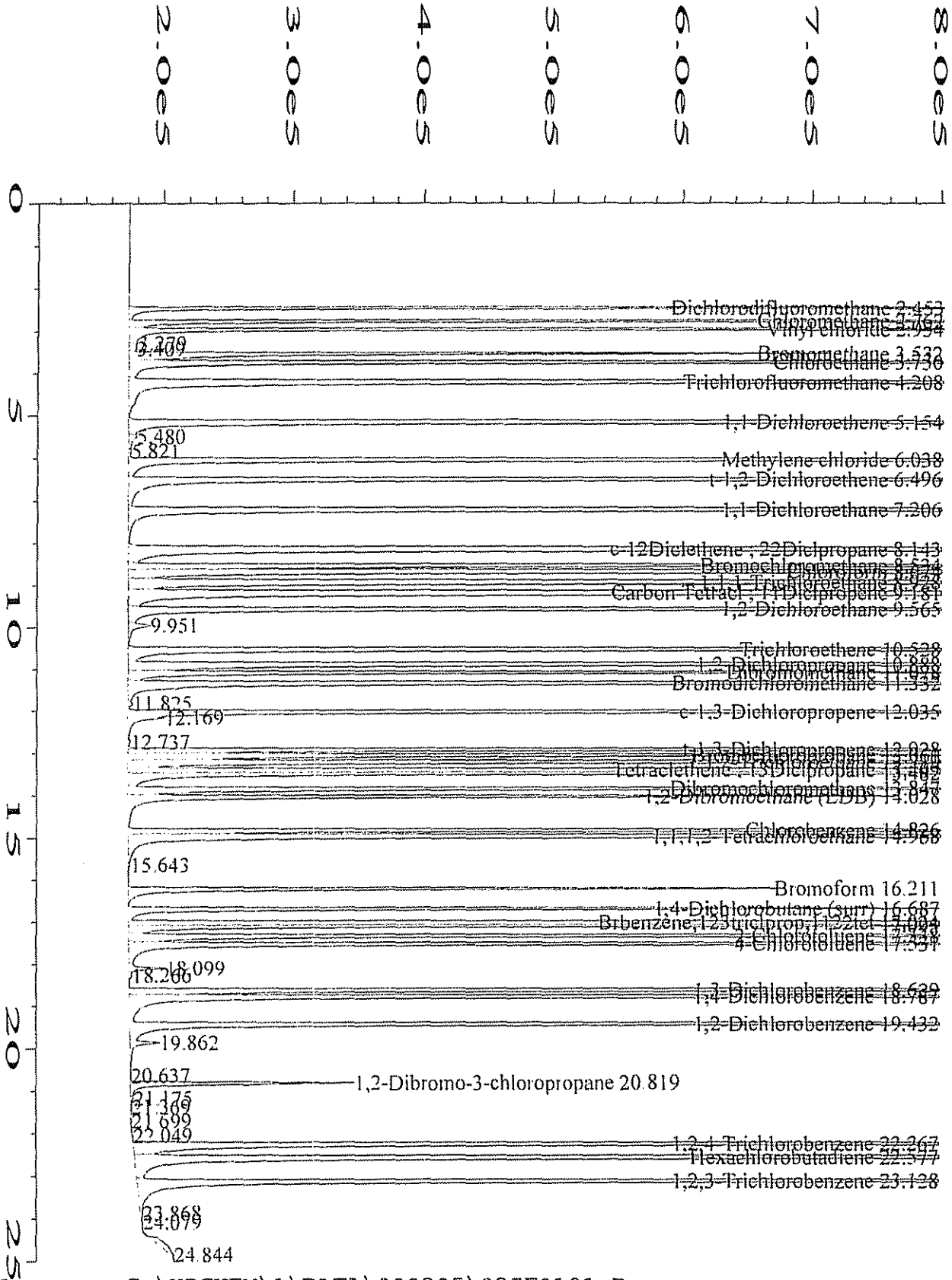
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\027F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v25
Run Time Bar Code:
Acquired on : 02 Aug 05 08:37 PM
Report Created on: 03 Aug 05 10:18 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 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

Sig. 1 in C:\HPCHEM\1\DATA\080205\027F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\027F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 27
Sample Name	: v25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:37 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 03 Aug 05 10:18 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

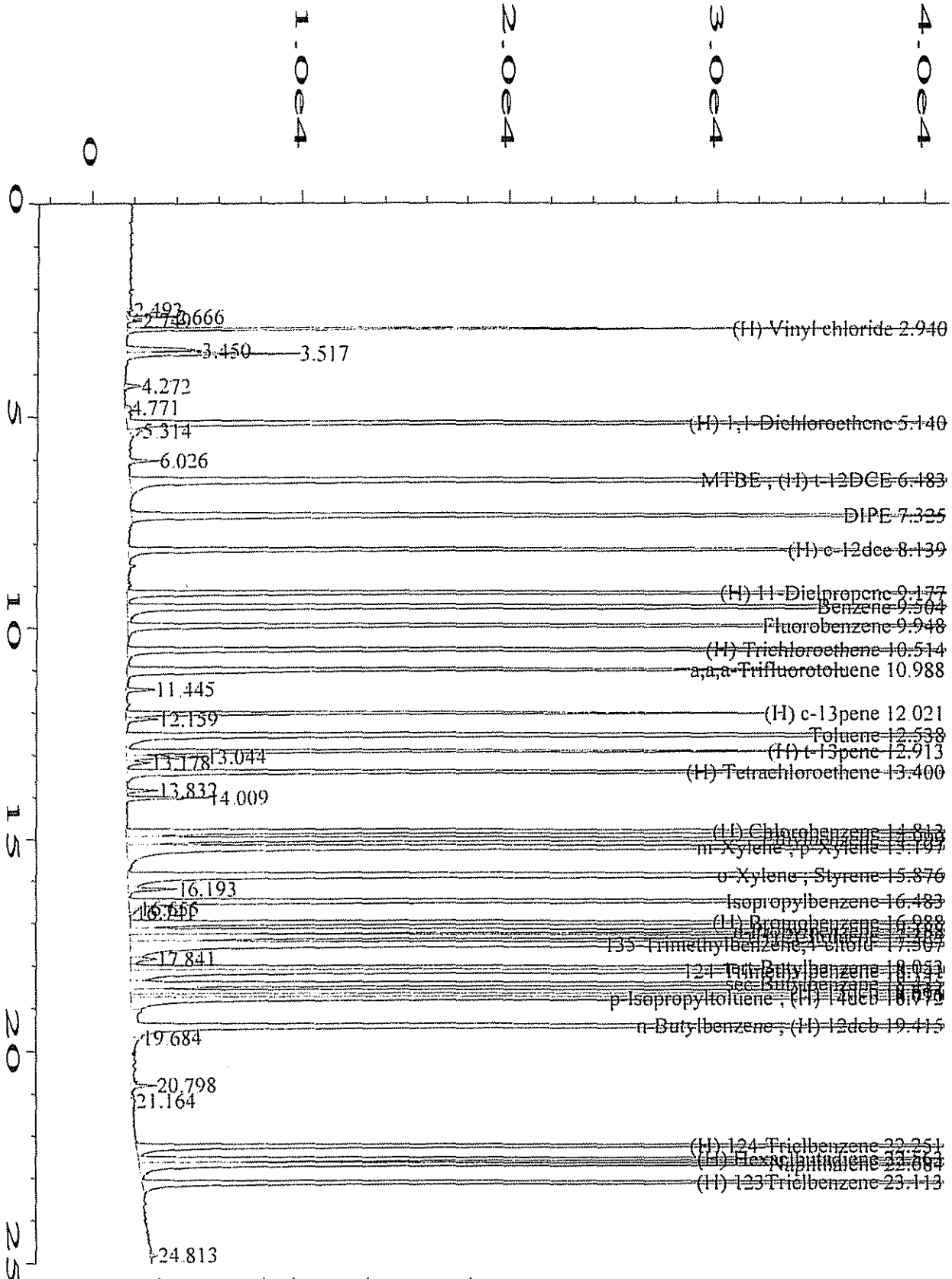
Internal Standard Report

Data File Name	: C:\HPCHEM\1\DATA\080205\027R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 27
Sample Name	: v25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:37 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:18 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\027R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\027R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 27
Sample Name	: v25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 08:37 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

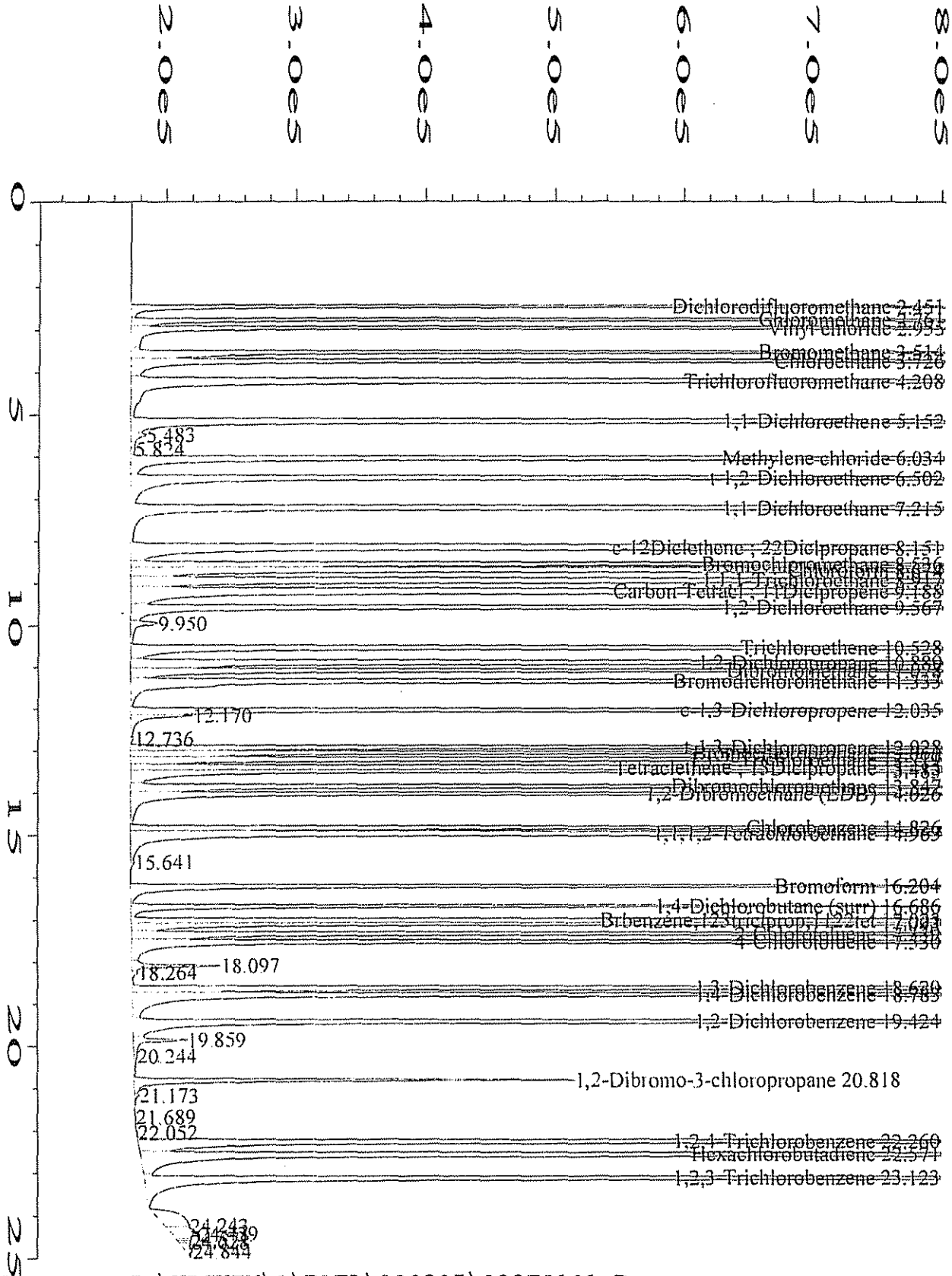
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\028F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v40
Run Time Bar Code:
Acquired on : 02 Aug 05 09:08 PM
Report Created on: 03 Aug 05 10:19 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 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

Sig. 1 in C:\HPCHEM\1\DATA\080205\028F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\028F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 28
Sample Name	: v40	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 09:08 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	03 Aug 05 10:19 AM	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

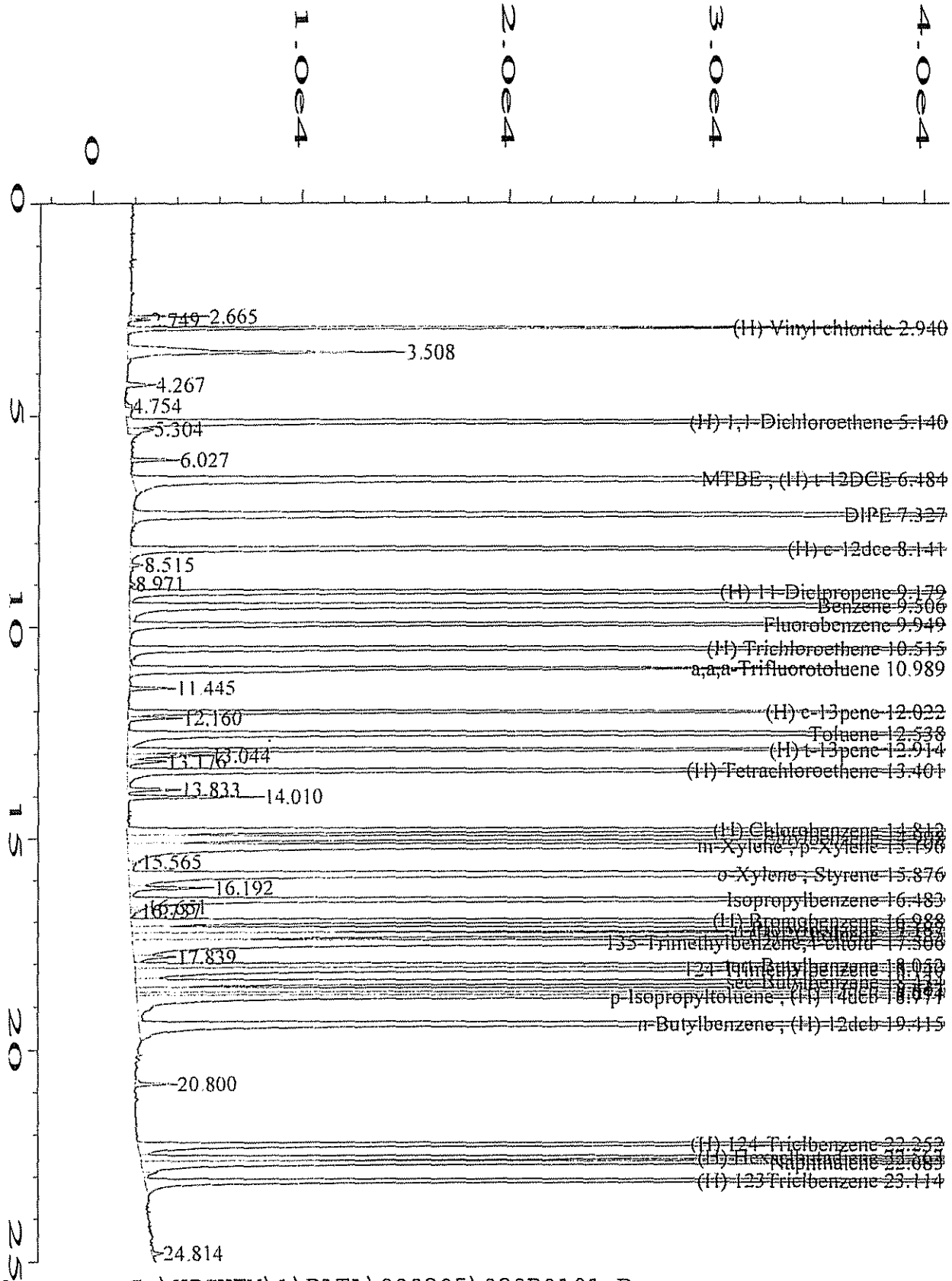
Data File Name : C:\HPCHEM\1\DATA\080205\028R0101.D
Operator : MJC
Instrument : GC1
Sample Name : v40
Run Time Bar Code:
Acquired on : 02 Aug 05 09:08 PM
Report Created on: 03 Aug 05 10:19 AM
Last Recalib on : 03 AUG 05 09:47 AM
Multiplier : 1

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

Sig. 2 in C:\HPCHEM\1\DATA\080205\028R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\080205\028R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC1	Vial Number	: 28
Sample Name	: v40	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 02 Aug 05 09:08 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

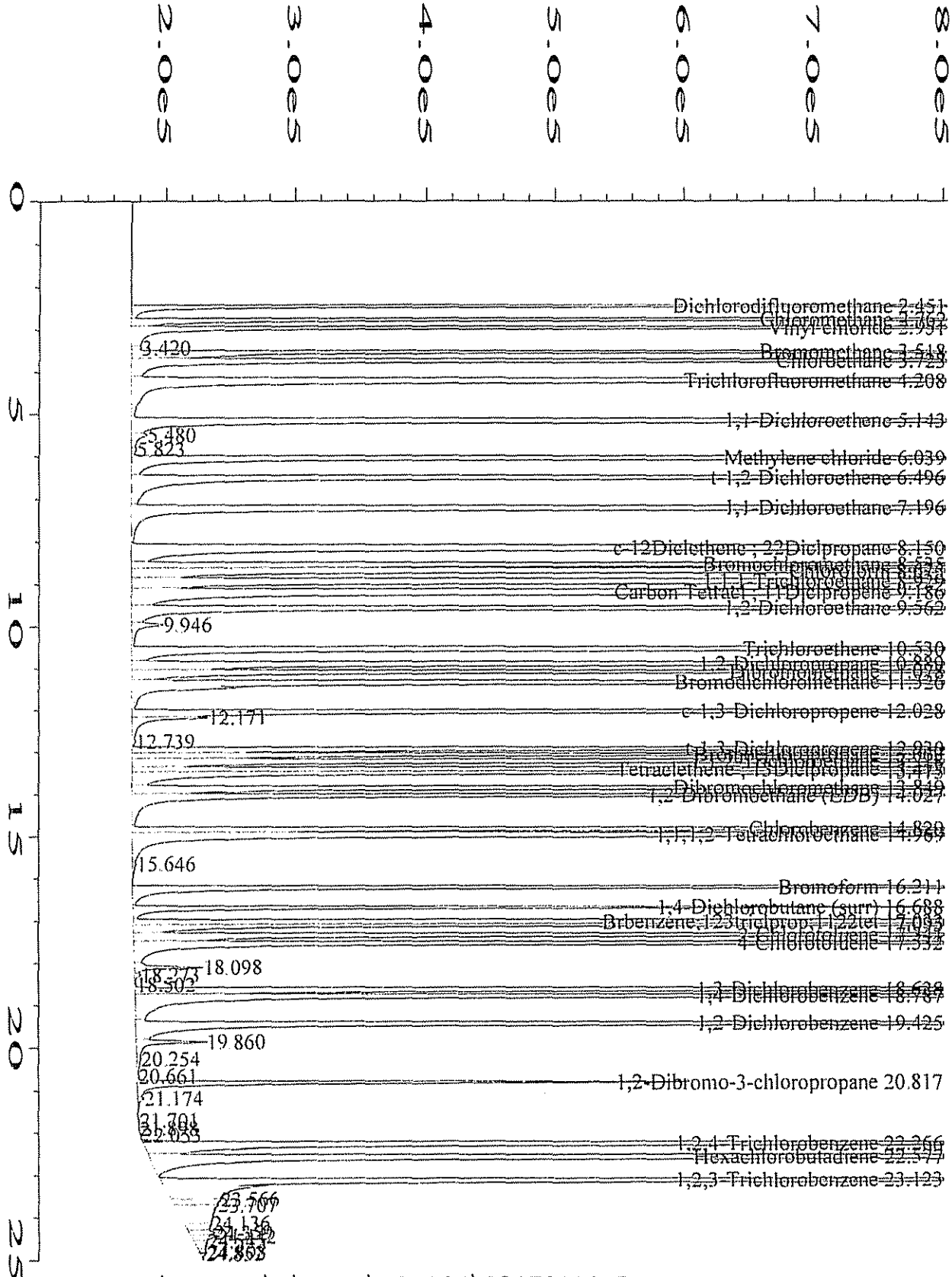
Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\029F0101.D
Operator : MJC
Instrument : GC1
Sample Name : v50
Run Time Bar Code:
Acquired on : 02 Aug 05 09:39 PM
Report Created on: 03 Aug 05 10:19 AM
Last Recalib on : 03 AUG 05 10:02 AM
Multiplier : 1

Page Number : 1
Vial Number : 29
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\080205\029F0101.D

Ret 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



Data File Name	: C:\HPCHEM\1\DATA\080205\029F0101.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_HAL.MTH
Last Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\080205\029R0101.D
Operator : MJC
Instrument : GC1
Sample Name : v50
Run Time Bar Code:
Acquired on : 02 Aug 05 09:39 PM
Report Created on: 03 Aug 05 10:19 AM
Last Recalib on : 03 AUG 05 09:47 AM
Multiplier : 1

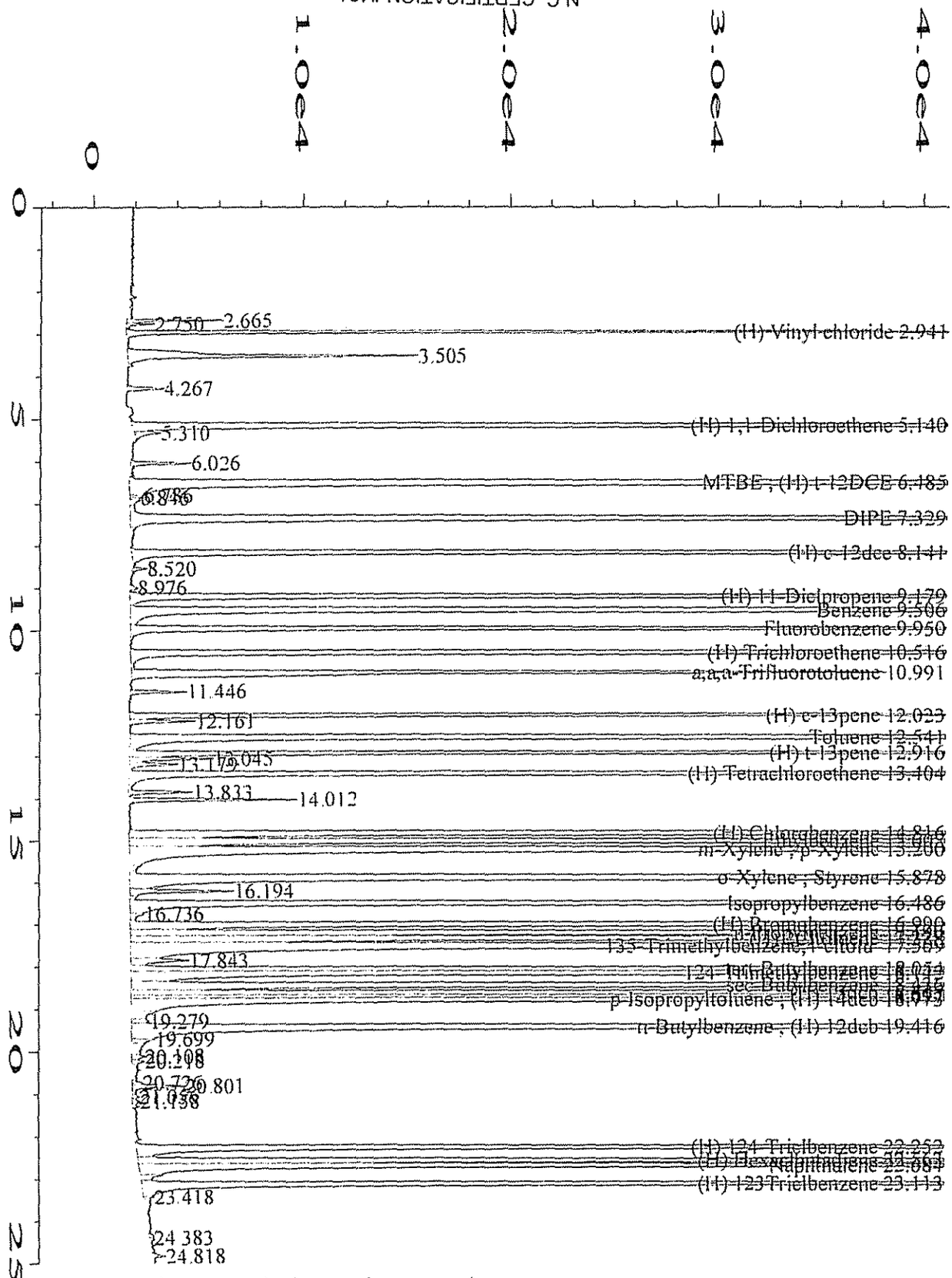
Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\080205\029R0101.D

Ret 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

Calibration table contains at least one peak with amt = 0

N.C. CERTIFICATION #481



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
Trichloroflurometh ane	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:_____

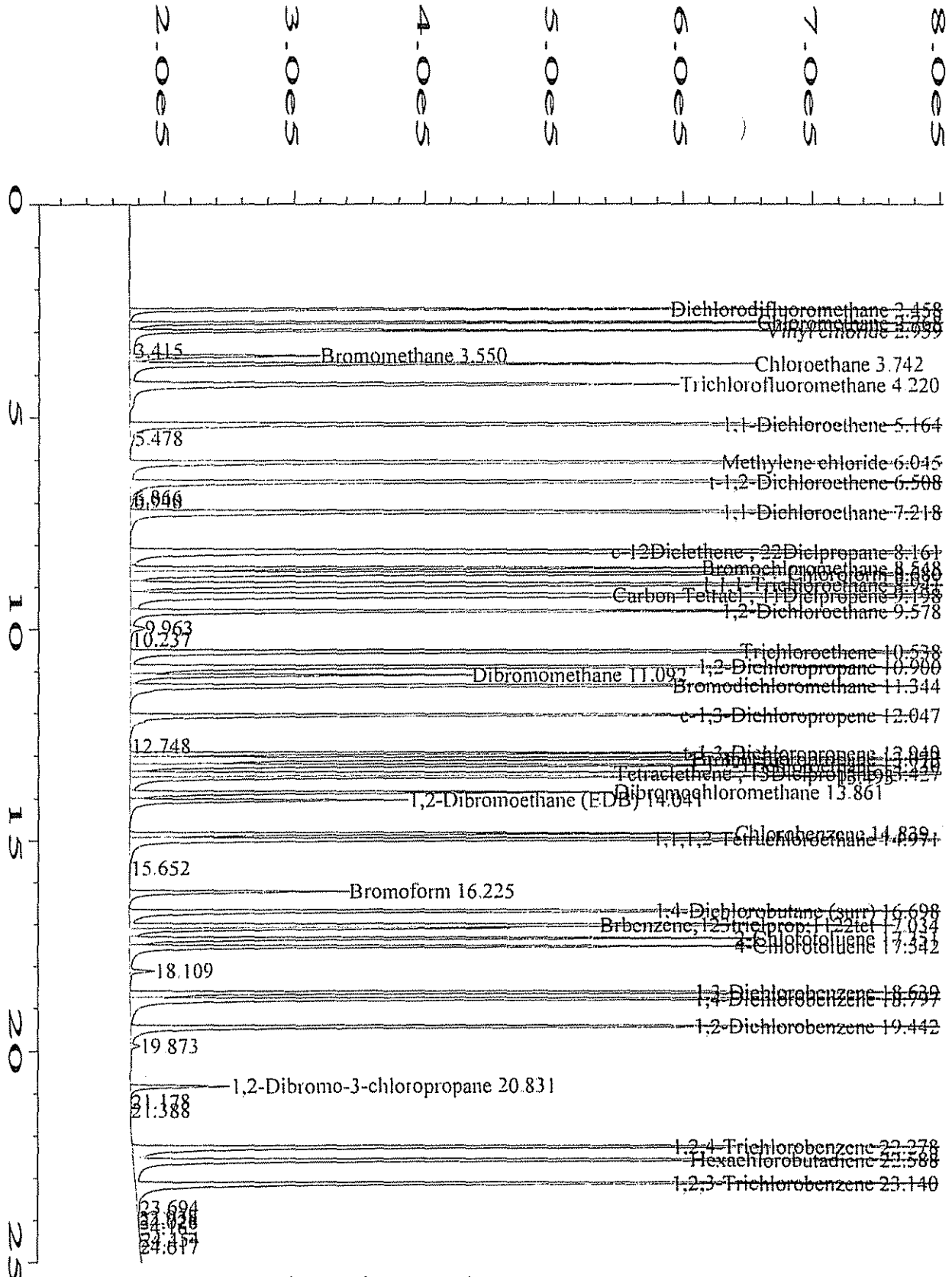
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\081005\005F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : qchk010
ın Time Bar Code:
ɔquired on : 10 Aug 05 11:04 AM
ɜport Created on: 11 Aug 05 01:47 PM
ast Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 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



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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_HAL.MTH
ast Recalib on	: 03 AUG 05 10:02 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

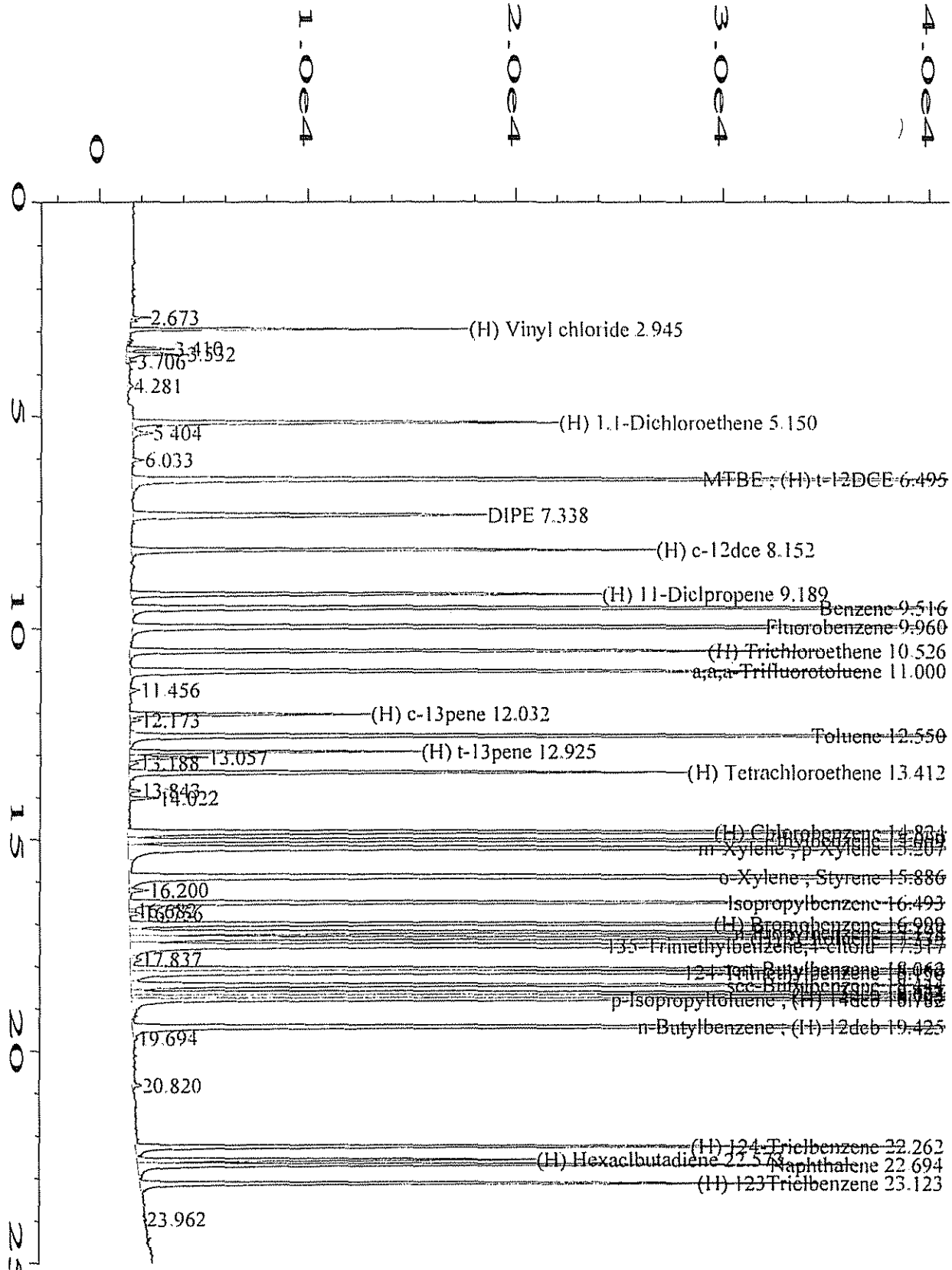
ıta File Name : C:\HPCHEM\1\DATA\081005\005R0101.D
)erator : MJC
ıstrument : GC1
ımple Name : qchk010
ın Time Bar Code:
:quired on : 10 Aug 05 11:04 AM
eport Created on: 11 Aug 05 01:47 PM
ast Recalib on : 03 AUG 05 09:47 AM
ıltiplier : 1

Page Number : 1
Vial Number : 5
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\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

:alibration table contains at least one peak with amt = 0



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 01:48 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

601/602 QC, Blanks Raw Data

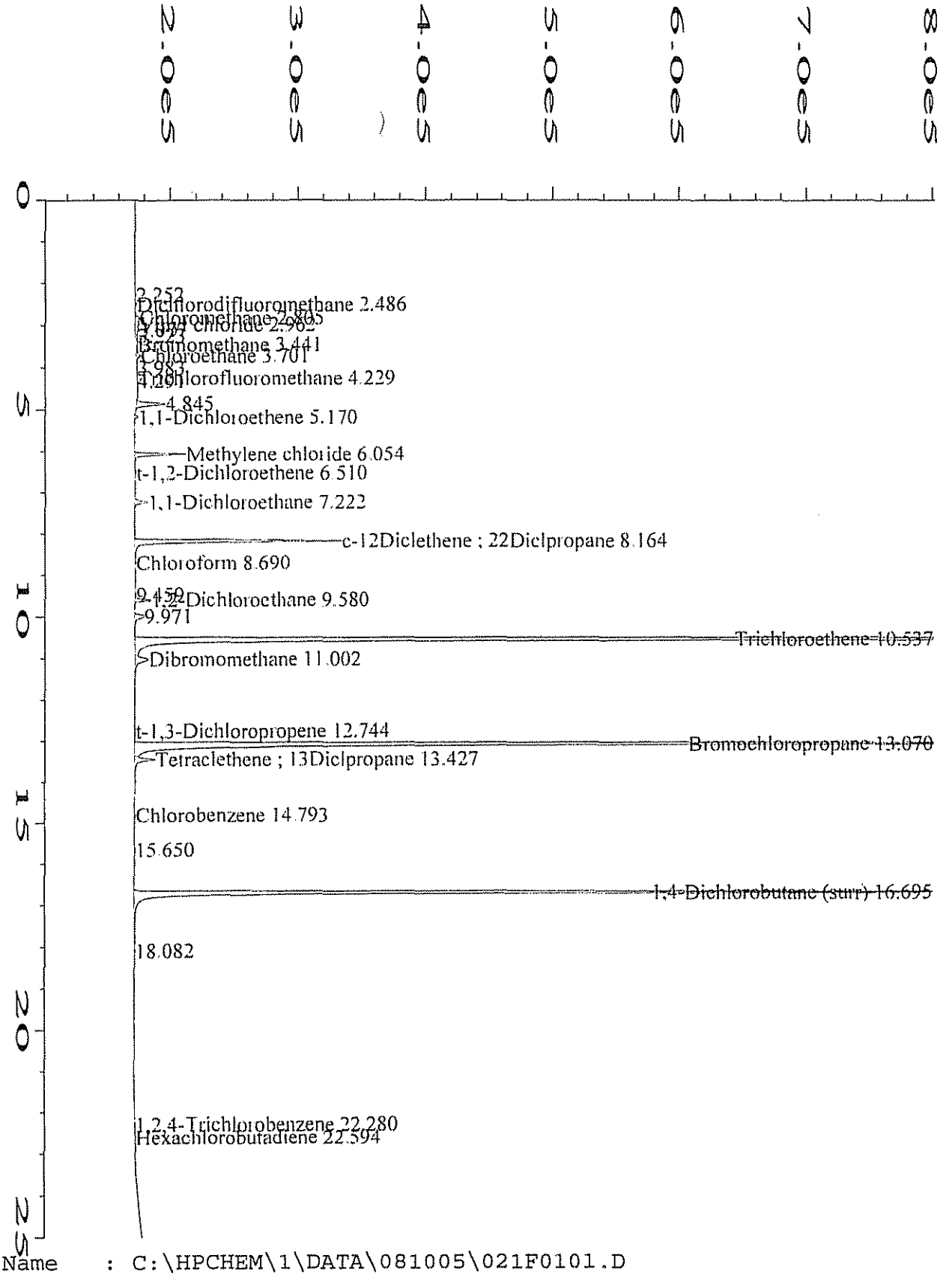
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\081005\021F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : g537-162-22a x8
ın Time Bar Code:
:quired on : 10 Aug 05 07:22 PM
ɜport Created on: 11 Aug 05 01:50 PM
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

ıg. 1 in C:\HPCHEM\1\DATA\081005\021F0101.D

ɜt 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



ata File Name	: C:\HPCHEM\1\DATA\081005\021F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 21
ample Name	: g537-162-22a x8	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Aug 05 07:22 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	11 Aug 05 01:50 PM	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

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

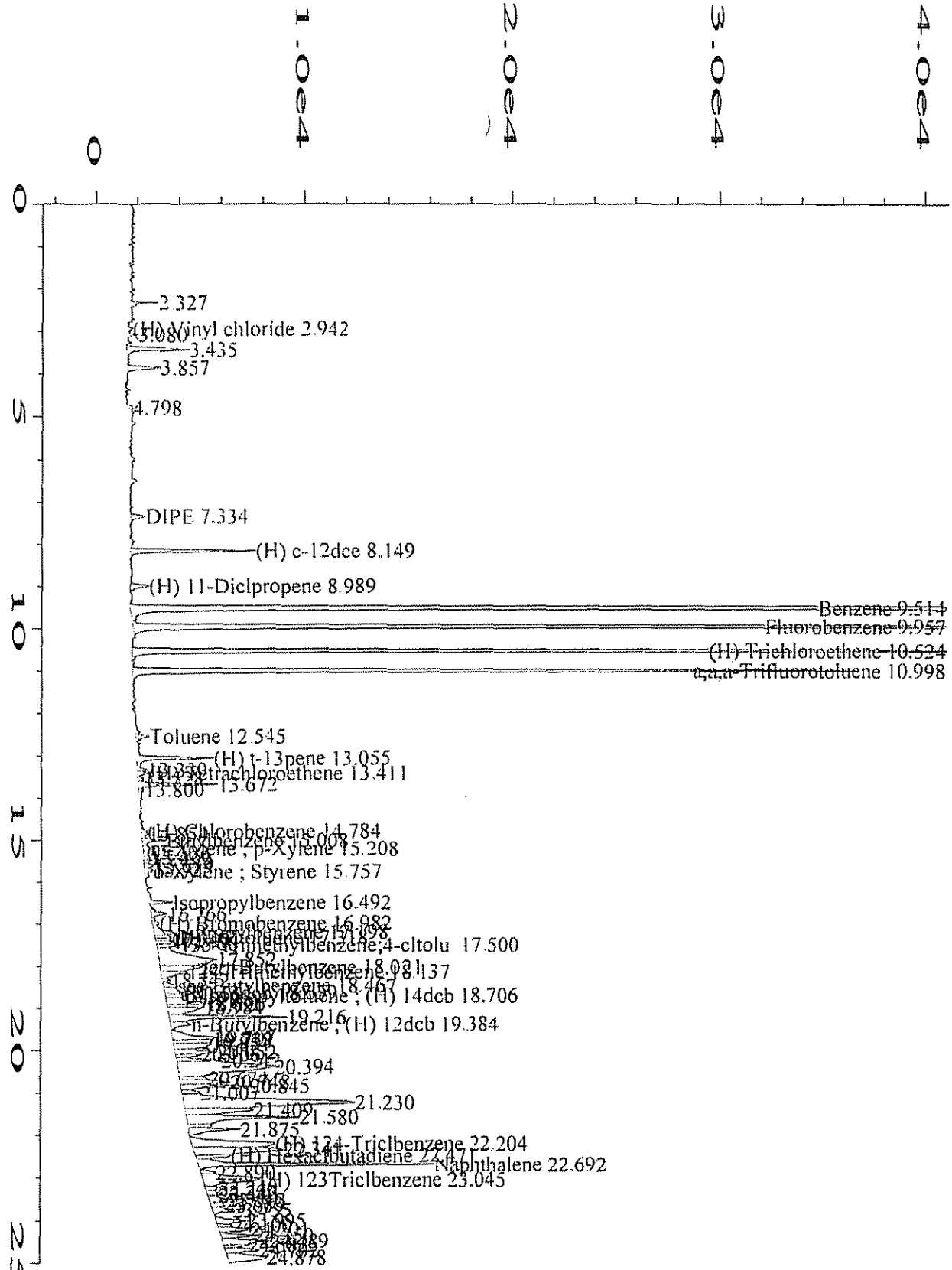
Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

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

Not all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\081005\021R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 21
ample Name	: g537-162-22a x8	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Aug 05 07:22 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	11 Aug 05 01:51 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 03 AUG 05 09:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

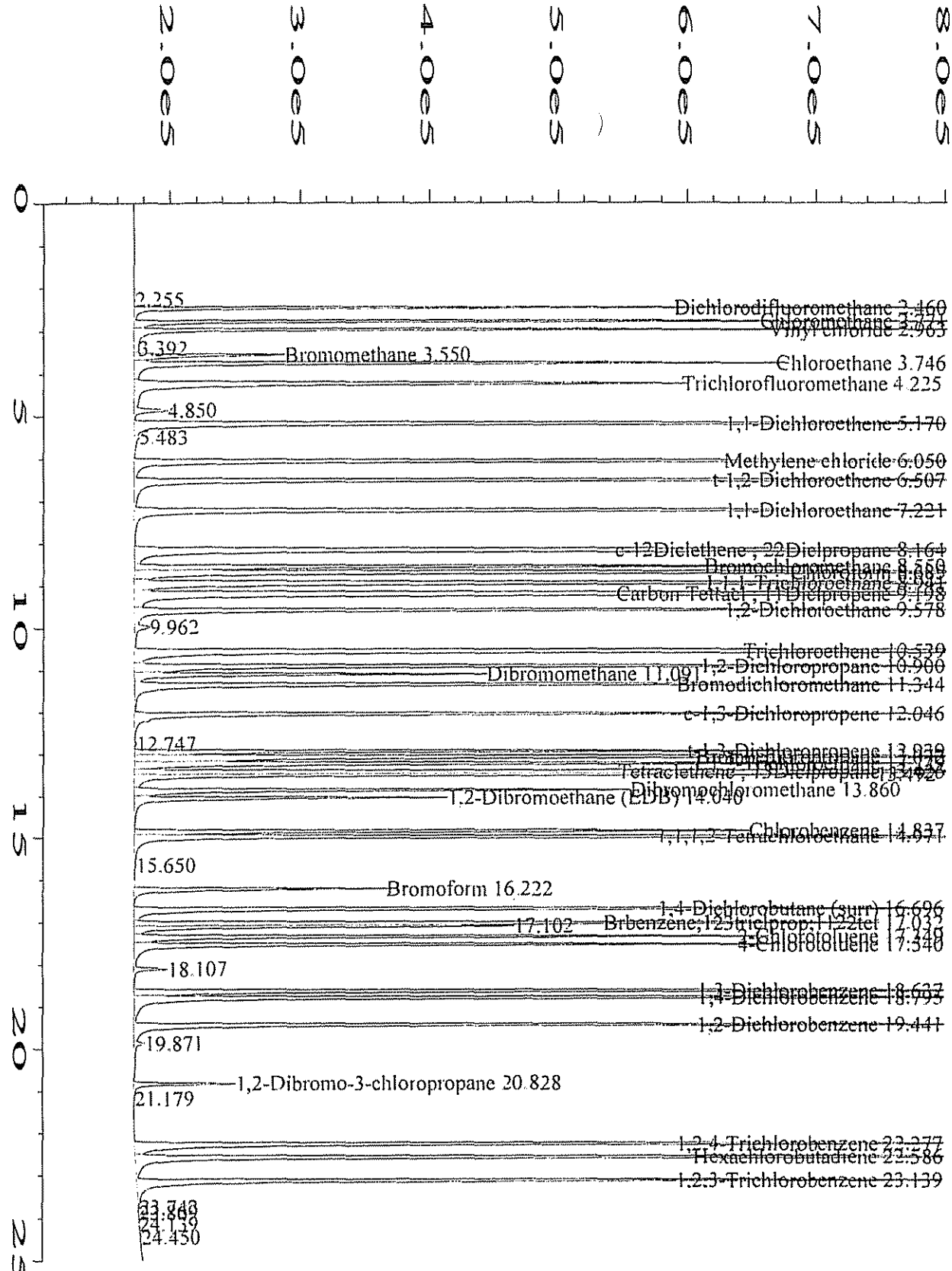
Internal Standard Report

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

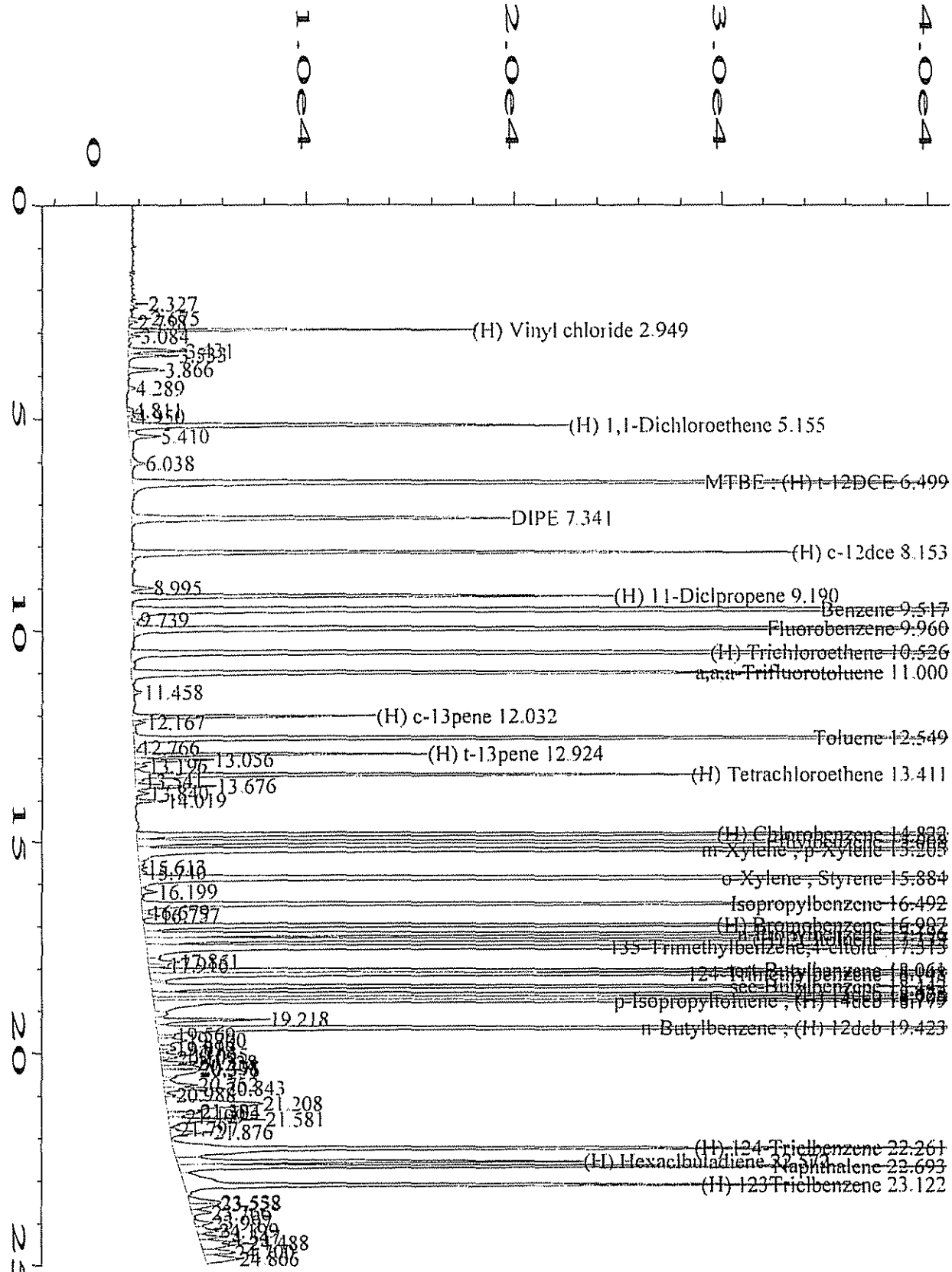
Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\081005\022R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 22
ample Name	: 148781 x8 ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Aug 05 07:53 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	11 Aug 05 01:51 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\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

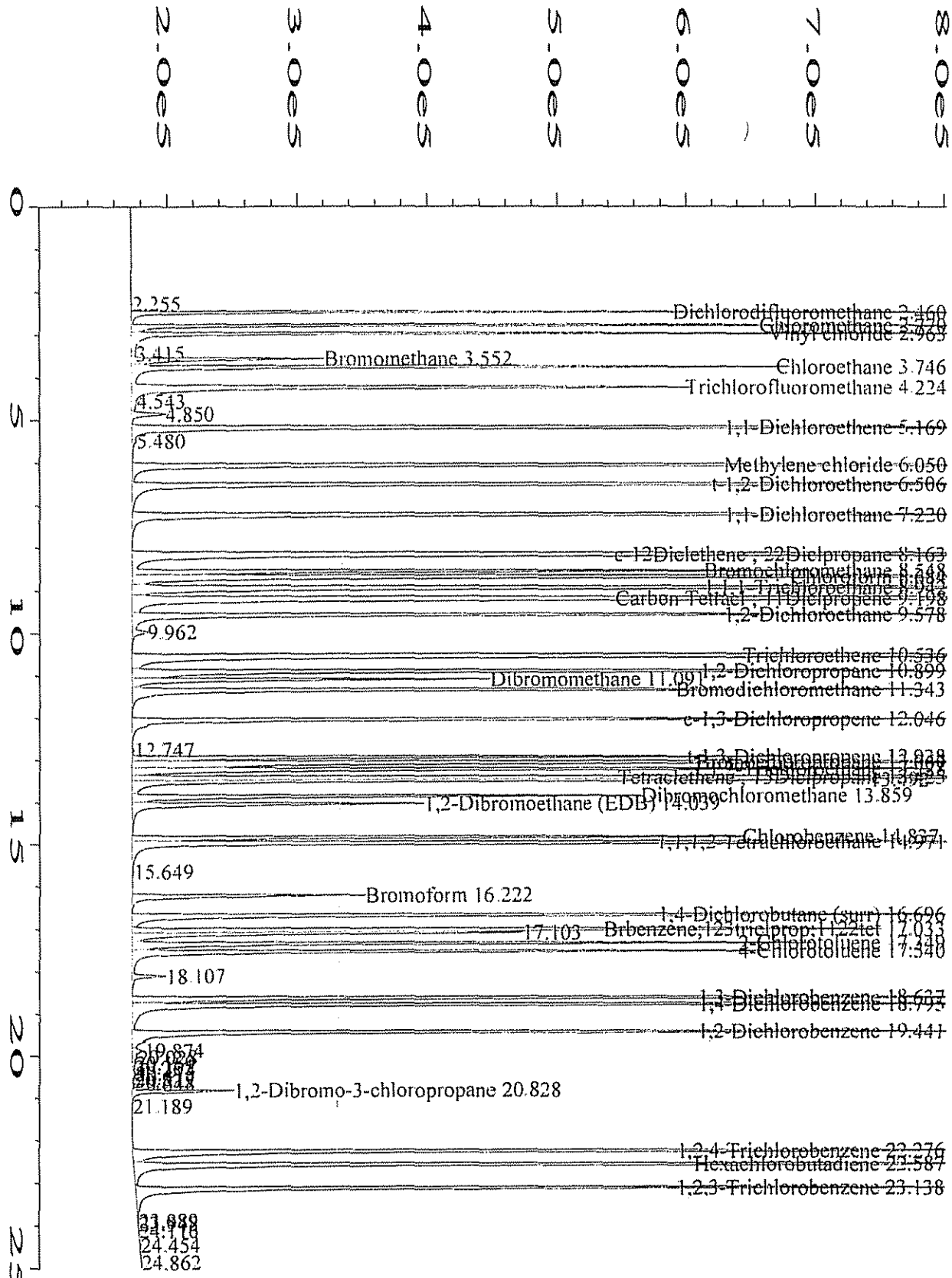
Internal Standard Report

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

ig. 1 in C:\HPCHEM\1\DATA\081005\023F0101.D

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



ata File Name	: C:\HPCHEM\1\DATA\081005\023F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC1	Vial Number	: 23
ample Name	: 148781 x8 msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Aug 05 08:25 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	11 Aug 05 01:51 PM	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

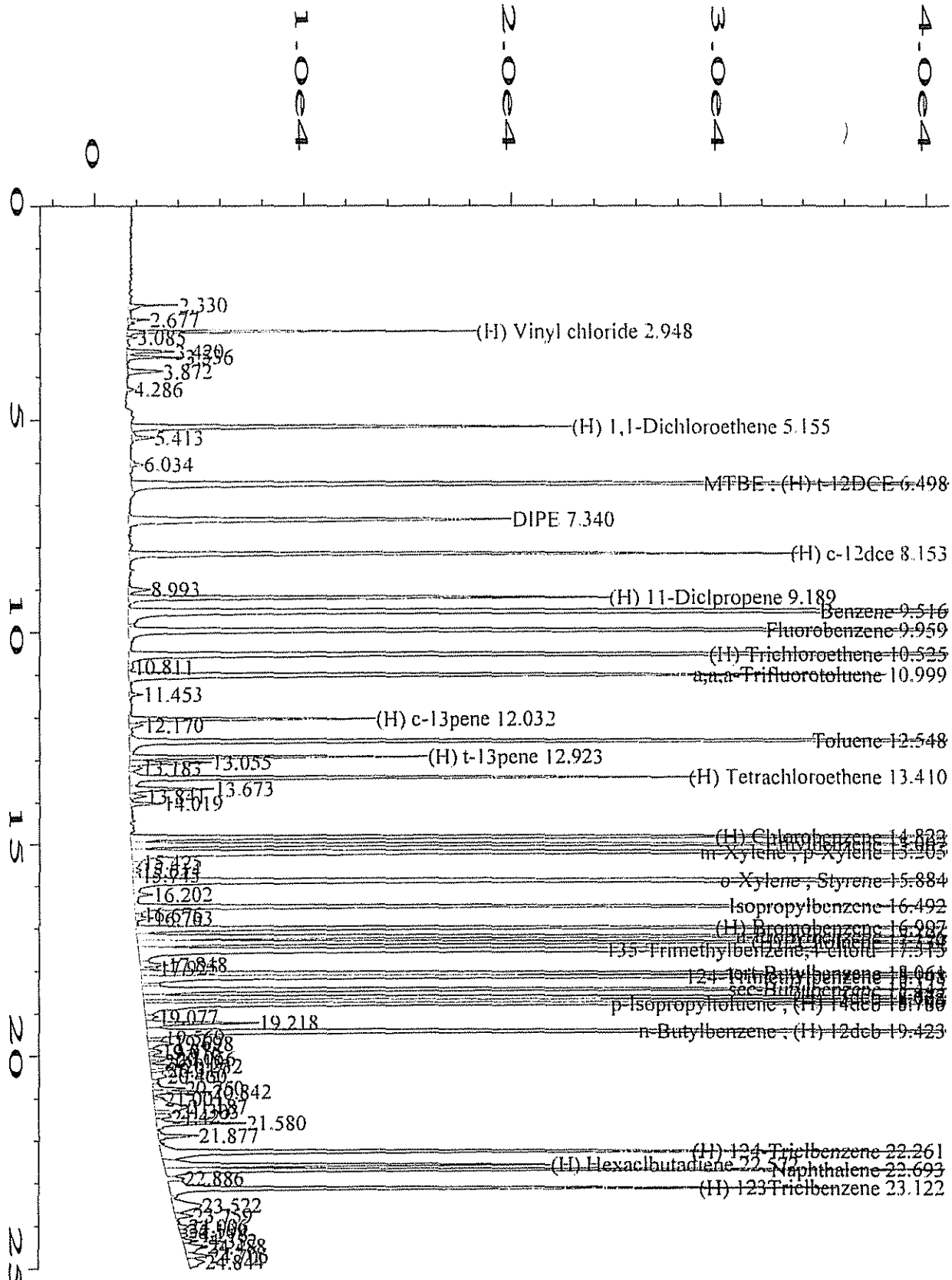
ıta File Name : C:\HPCHEM\1\DATA\081005\023R0101.D
)erator : MJC
ıstrument : GC1
ımple Name : 148781 x8 msd
ın Time Bar Code:
:quired on : 10 Aug 05 08:25 PM
:port Created on: 11 Aug 05 01:51 PM
ıst Recalib on : 03 AUG 05 09:47 AM
ıltiplier : 1

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

ıg. 2 in C:\HPCHEM\1\DATA\081005\023R0101.D

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

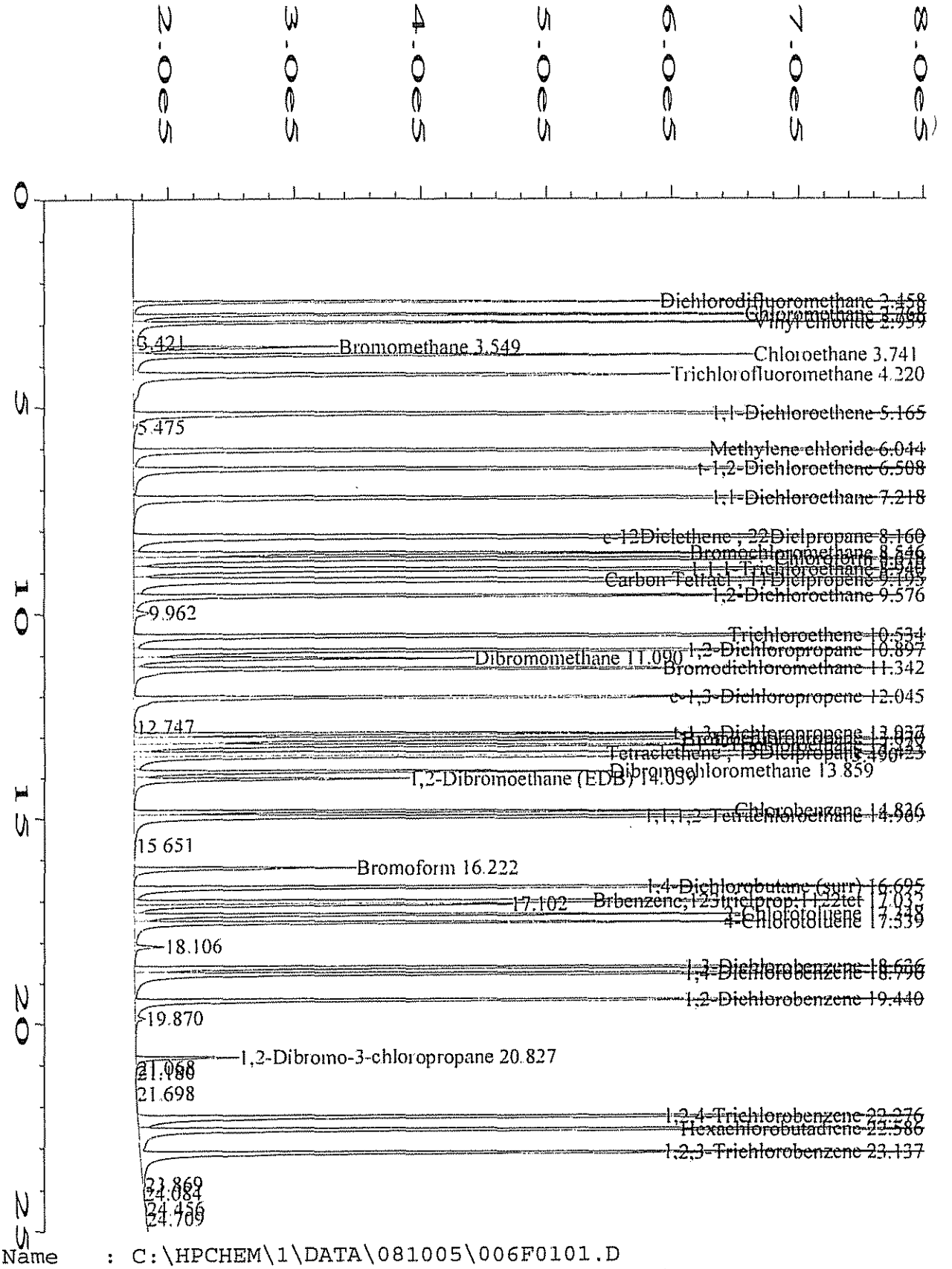
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\081005\006F0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : lcs1081005a
ın Time Bar Code:
ɔquired on : 10 Aug 05 11:35 AM
ɜport Created on: 11 Aug 05 01:48 PM
ɜst Recalib on : 03 AUG 05 10:02 AM
ıltiplier : 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

ig. 1 in C:\HPCHEM\1\DATA\081005\006F0101.D

ɜt 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

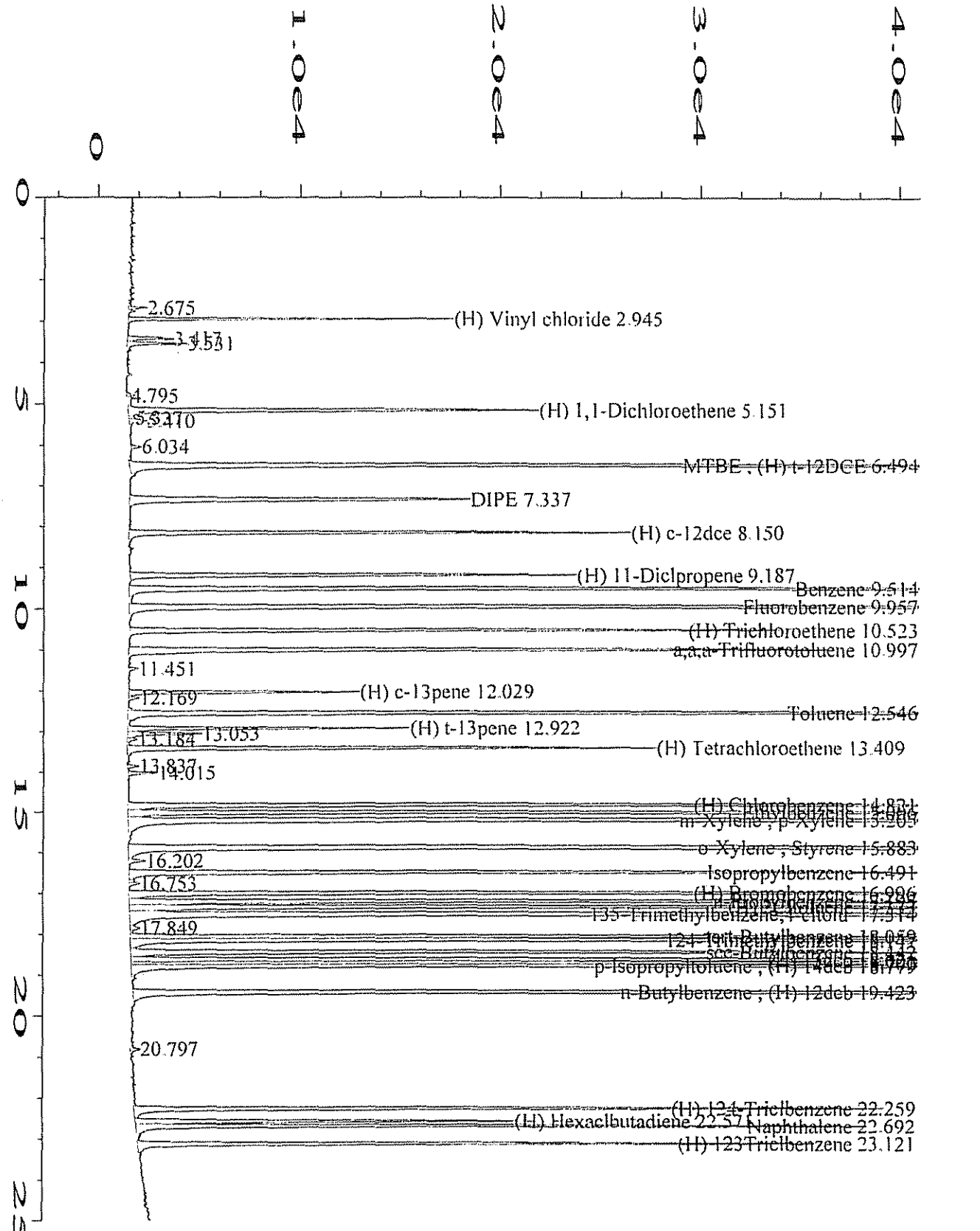
ata File Name : C:\HPCHEM\1\DATA\081005\006R0101.D
perator : MJC
nstrument : GC1
ample Name : lcs1081005a
in Time Bar Code:
cquired on : 10 Aug 05 11:35 AM
eport Created on: 11 Aug 05 01:48 PM
ast Recalib on : 03 AUG 05 09:47 AM
ultiplier : 1

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

ig. 2 in C:\HPCHEM\1\DATA\081005\006R0101.D

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

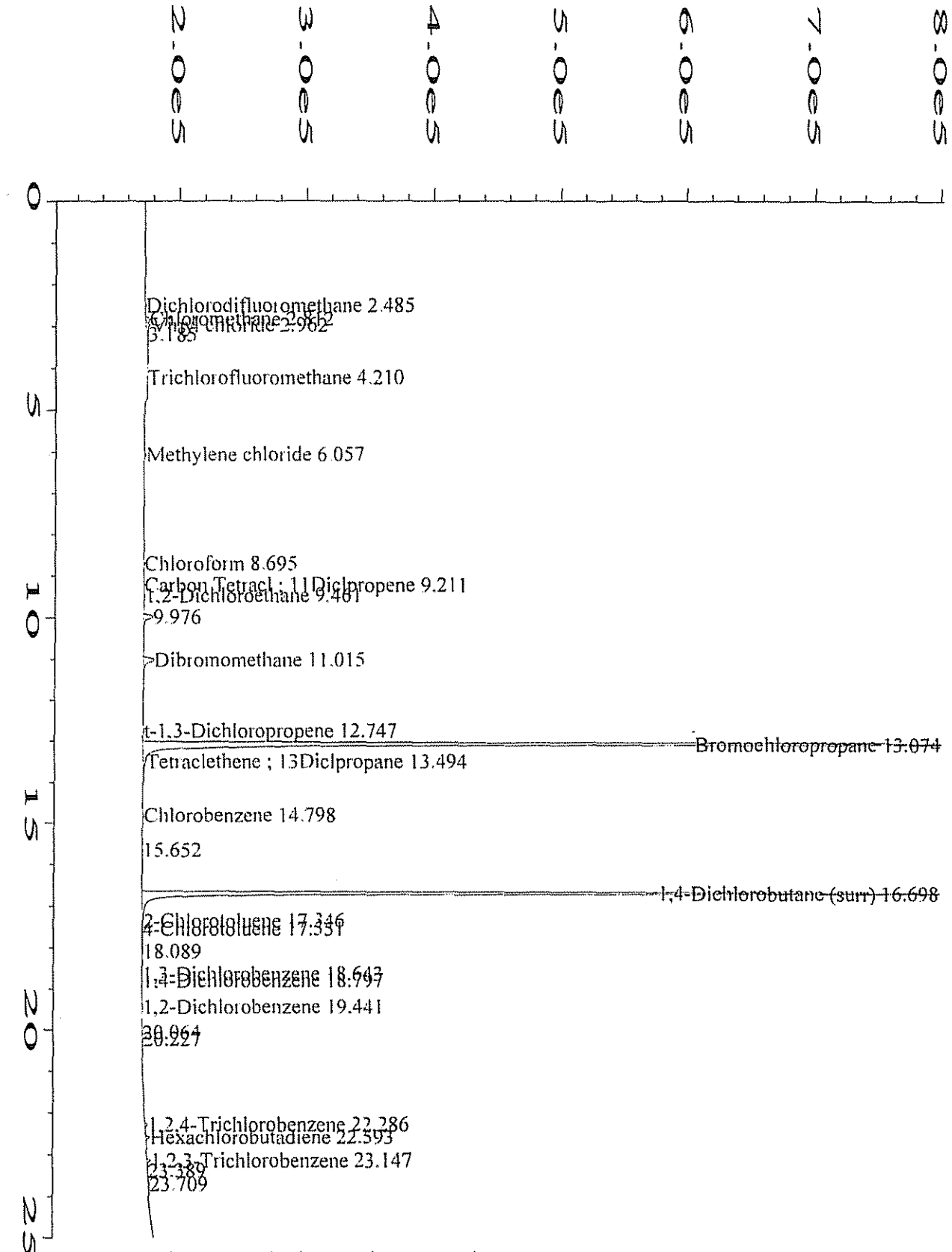
Internal Standard Report

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

ıta File Name : C:\HPCHEM\1\DATA\081005\008R0101.D
ɔerator : MJC
ıstrument : GC1
ımple Name : vblk1081005a
ın Time Bar Code:
ɔquired on : 10 Aug 05 12:37 PM
ɜport Created on: 11 Aug 05 01:49 PM
ıast Recalib on : 03 AUG 05 09:47 AM
ıltiplier : 1

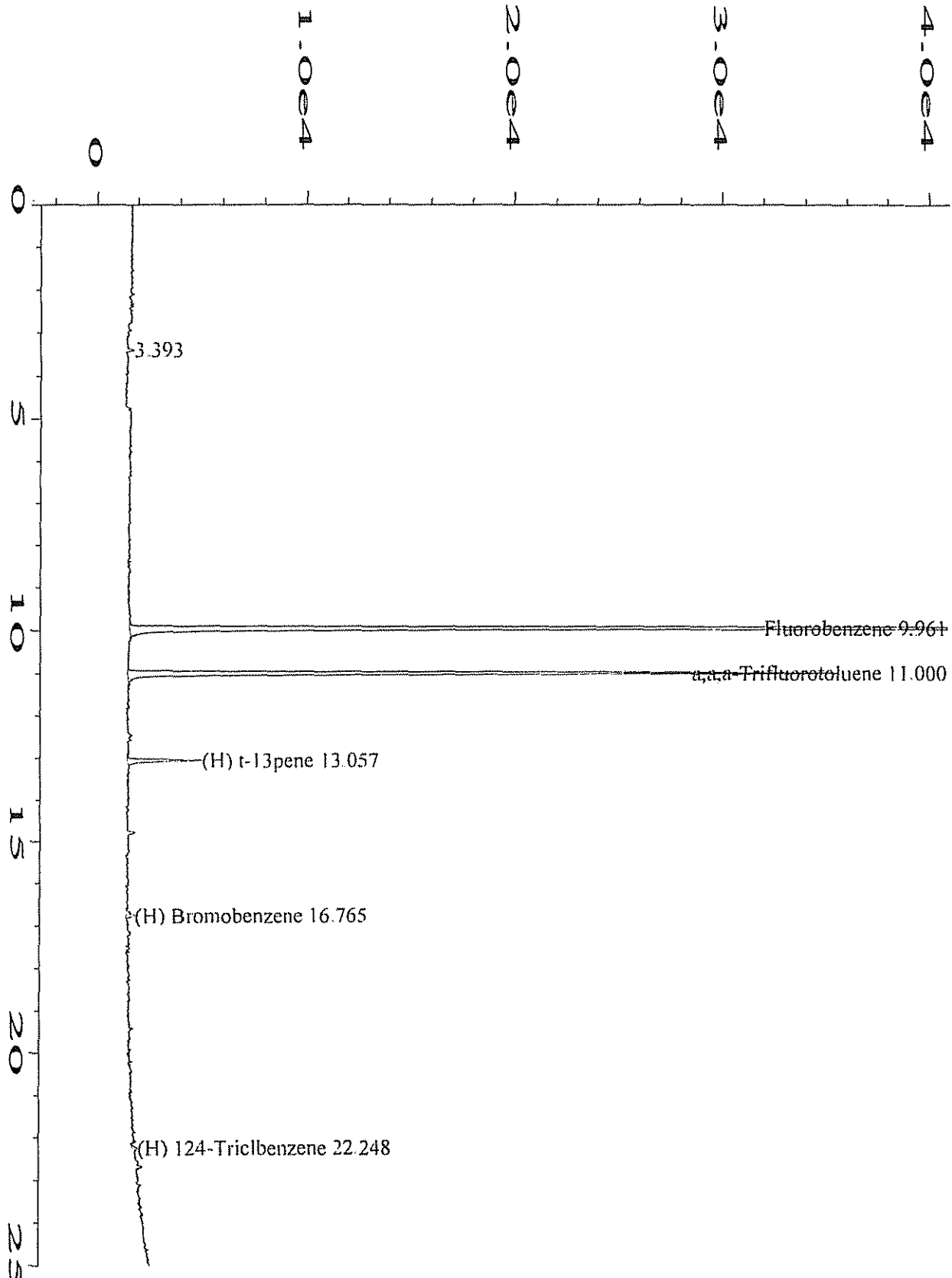
Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\081005\008R0101.D

ɜt 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

ſot 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

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- 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: C6

VO12.112202.1

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: 670

VO14.112202.1

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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 Hgl			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

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N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

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	↓	↓

Analyst: MJC

Page Number: ~~4824~~ 4835

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

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

625-BN Sample Raw Data

Quantitation Report

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 15 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

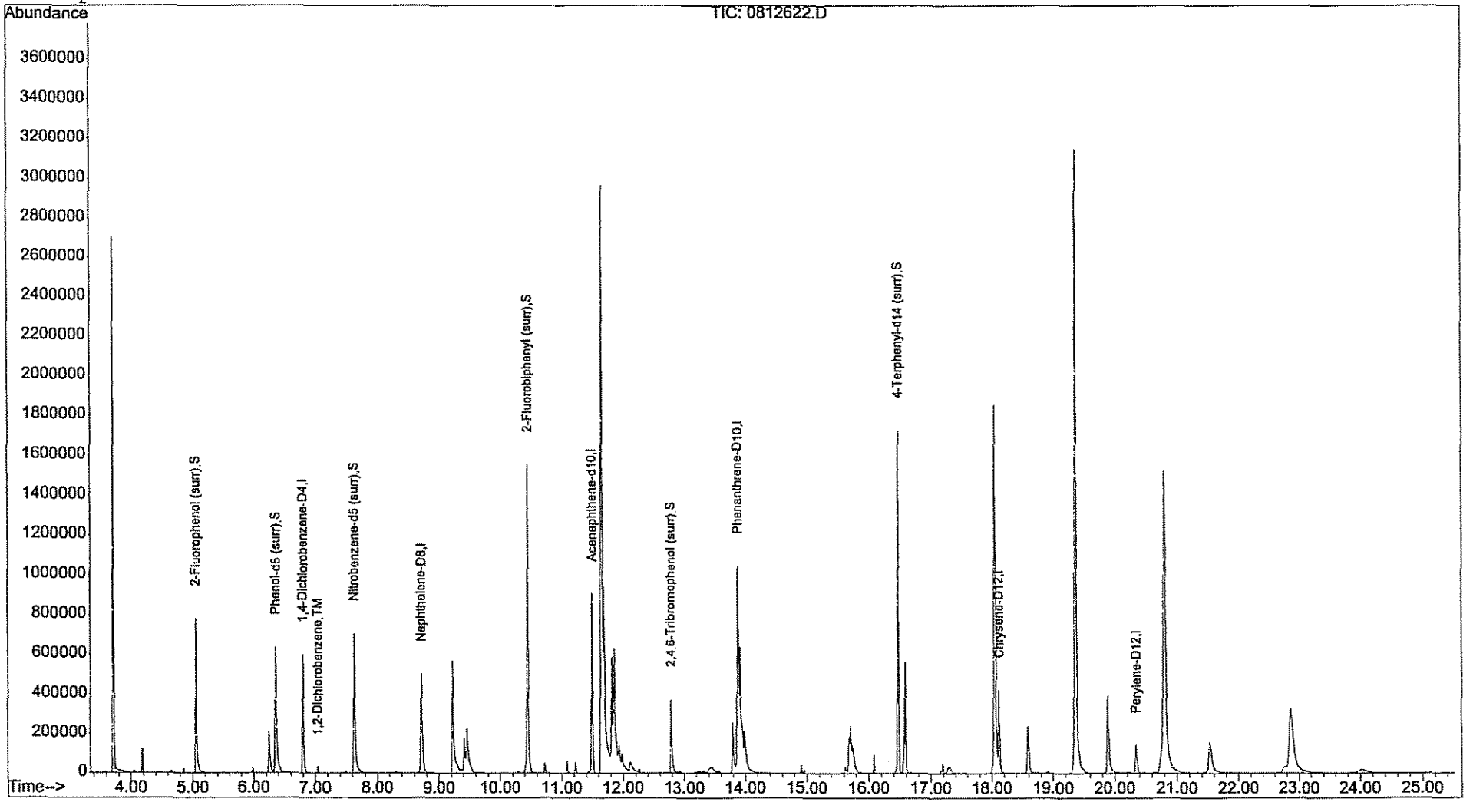
pl 08.15.05

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	6.80	152	148508	4.00 ug/mL	-0.10
18) Naphthalene-D8	8.72	136	520952	4.00 ug/mL	-0.10
33) Acenaphthene-d10	11.50	164	334610	4.00 ug/mL	-0.11
55) Phenanthrene-D10	13.88	188	475359	4.00 ug/mL	-0.10
85) Chrysene-D12	18.12	240	232428	4.00 ug/mL	-0.11
93) Perylene-D12	20.34	264	126244	4.00 ug/mL	-0.13
System Monitoring Compounds					
16) 2-Fluorophenol (surr)	5.06	112	312305	8.32 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 83.20%	
17) Phenol-d6 (surr)	6.36	99	481444	8.11 ug/mL	-0.06
Spiked Amount 10.000			Recovery	= 81.10%	
32) Nitrobenzene-d5 (surr)	7.64	128	173860	9.49 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 94.90%	
53) 2-Fluorobiphenyl (surr)	10.45	172	843733	8.94 ug/mL	-0.10
Spiked Amount 10.000			Recovery	= 89.40%	
54) 2,4,6-Tribromophenol (surr	12.78	330	78291	7.96 ug/mL	-0.09
Spiked Amount 10.000			Recovery	= 79.60%	
92) 4-Terphenyl-d14 (surr)	16.48	244	797464	13.86 ug/mL	-0.11
Spiked Amount 10.000			Recovery	= 138.60%	
Target Compounds					Qvalue
10) 1,2-Dichlorobenzene	7.05	146	15086	0.33 ug/mL#	86

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N x1 Inst : MSD6
Misc : 625 - BN - TICS - CLP [3520-3409] Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Aug 15 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



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.71	13.60 ug/mL	2935180	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	87
5	Toluene	92	C7H8	000108-88-3	87

****

Peak Number 2 Disulfide, ethyl isopentyl Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.18	0.62 ug/mL	132890	1,4-Dichlorobenzene-D4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Disulfide, ethyl isopentyl	164	C7H16S2	072437-60-6	16
2	1-Propene, 2-chloro-1,1,3,3,3-penta	166	C3ClF5	002804-50-4	9
3	2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	7
4	Silanediamine, 1-chloro-N,N,N',N',1	166	C5H15ClN2Si	010339-02-3	7
5	Benzene, (2-chloro-2-butenyl)-	166	C10H11Cl	054411-12-0	7

****

Peak Number 3 Ether Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.25	1.67 ug/mL	360302	1,4-Dichlorobenzene-D4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ether	74	C4H10O	000060-29-7	9
2	Ethane, methoxy-	60	C3H8O	000540-67-0	7
3	Ethane, 1,2-dimethoxy-	90	C4H10O2	000110-71-4	5
4	Diazene, 2-methoxy-1-methyl-, 1-oxi	90	C2H6N2O2	000000-00-0	5
5	Ethane, methoxy-	60	C3H8O	000540-67-0	4

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 Ethane, 1,1'-oxybis[2-methoxy- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.23	4.69 ug/mL	1131540	Naphthalene-D8	8.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3	000111-96-6	78
2	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3	000111-96-6	64
3	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3	000111-96-6	64
4	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3	000111-96-6	56
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	40

****
Peak Number 5 1-Propanol, 2-(2-hydroxypropox Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	1.05 ug/mL	252859	Naphthalene-D8	8.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	78
2	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	74
3	Propane, 1,2-dimethoxy-	104	C5H12O2	007778-85-0	39
4	1,2-Dideoxy-l-erythro-pentitol	120	C5H12O3	000000-00-0	9
5	3-Heptanol, 5-methyl-	130	C8H18O	018720-65-5	9

****
Peak Number 6 2-Propanol, 1,1'-[(1-methyl-1, Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.46	2.13 ug/mL	513809	Naphthalene-D8	8.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	83
2	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	74
3	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64
4	2-Pentanol, 5-methoxy-2-methyl-	132	C7H16O2	055724-04-4	39
5	2-Propanol, 1,1'-oxybis-	134	C6H14O3	000110-98-5	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 7 Spiro[3.3]heptane-2,6-dione Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	15.98 ug/mL	5085420	Acenaphthene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Spiro[3.3]heptane-2,6-dione	124	C7H8O2	020061-23-8	38
2	Pyrimidine, 5-methyl-, 1-oxide	110	C5H6N2O	017758-50-8	35
3	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	32
4	Cyclobutane, 1,2-diethenyl-	108	C8H12	002422-85-7	27
5	5H-Pyrrolotetrazole, 6,7-dihydro-	110	C4H6N4	005817-87-8	25

****

Peak Number 8 Methane, diethoxy- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	2.15 ug/mL	685006	Acenaphthene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	72
2	2-Propanol, 1-[1-methyl-2-(2-propen	174	C9H18O3	055956-25-7	72
3	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	64
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	64

****

Peak Number 9 2-Propanol, 1-[1-methyl-2-(2-p Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	2.77 ug/mL	880163	Acenaphthene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-[1-methyl-2-(2-propen	174	C9H18O3	055956-25-7	78
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	64
4	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64
5	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	64

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 10 2,5,8,11,14-Pentaoxapentadecan Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	0.95 ug/mL	407372	Phenanthrene-D10	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	59
2	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	59
3	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	59
4	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	59
5	Ethane, 1,1'-oxybis[2-methoxy-	134	C6H14O3	000111-96-6	45

****
Peak Number 11 2-Propanol, 1,1'-[(1-methyl-1, Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	0.55 ug/mL	236499	Phenanthrene-D10	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	50
2	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
3	2-Butanol, 3,3'-oxybis-	162	C8H18O3	054305-61-2	45
4	1-Butanol, 3-methoxy-	104	C5H12O2	002517-43-3	40
5	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	40

****
Peak Number 12 3-Pentanol, 3-ethyl-2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.08	0.57 ug/mL	93496	Chrysene-D12	18.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanol, 3-ethyl-2-methyl-	130	C8H18O	000597-05-7	23
2	3-Hexanol, 2,2,5,5-tetramethyl-	158	C10H22O	055073-86-4	9
3	Di-sec-butyl ether	130	C8H18O	006863-58-7	9
4	2-Butanol, 3,3-dimethyl-	102	C6H14O	000464-07-3	9
5	5-Hexen-2-ol, (.+/-.)-	100	C6H12O	054774-27-5	9

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 13 Hydrazine, 2-butyl-1,1-dimethy Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.59	5.24 ug/mL	860095	Chrysene-D12	18.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydrazine, 2-butyl-1,1-dimethyl-	116	C6H16N2	054007-23-7	52
2	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	38
3	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	28
4	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	28
5	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	28

****
Peak Number 14 Methane, diethoxy- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	22.32 ug/mL	3660230	Chrysene-D12	18.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	53
5	2,5,8,11-Tetraoxatetradecan-13-ol,	264	C13H28O5	020324-34-9	53

****
Peak Number 15 2,5,8,11,14-Pentaoxapentadecan Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	2.89 ug/mL	474187	Chrysene-D12	18.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5,8,11,14-Pentaoxapentadecane	222	C10H22O5	000143-24-8	47
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
3	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	47
4	Propane, 1,1-diethoxy-	132	C7H16O2	004744-08-5	40
5	1-Propanol, 2-(2-methoxy-1-methylet	148	C7H16O3	055956-21-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 16 2-Propanol, 1,1'-[(1-methyl-1, Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.36	86.75 ug/mL	6009220	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	53
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	47
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	47

****
Peak Number 17 Methane, diethoxy- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.89	11.39 ug/mL	789083	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	52
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	50
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	50
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	50
5	2-Propanol, 1-[1-methyl-2-(2-propen	174	C9H18O3	055956-25-7	40

****
Peak Number 18 Methane, diethoxy- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.80	68.89 ug/mL	4772050	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
3	2-Propanol, 1-[1-methyl-2-(2-propen	174	C9H18O3	055956-25-7	45
4	2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	45
5	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	43

Data File : C:\HPCHEM\1\DATA\6081205\0812622.D Vial: 22
Acq On : 12 Aug 2005 7:38 pm Operator: MRC
Sample : G161-2104-1N 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 19 Methane, diethoxy- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.53	7.53 ug/mL	521689	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	42
2	Propane, 1,1-diethoxy-	132	C7H16O2	004744-08-5	36
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	36
4	Propane, 1,1-diethoxy-	132	C7H16O2	004744-08-5	36
5	Butanoic acid, 3-hydroxy-3-methyl-	118	C5H10O3	000625-08-1	17

****
Peak Number 20 1-Propanol, 2-(2-methoxy-1-met Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.75	1.25 ug/mL	86788	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-methoxy-1-methylet	148	C7H16O3	055956-21-3	4
2	1-Propanamine	59	C3H9N	000107-10-8	3
3	2-Pentanol, 2-methyl-	102	C6H14O	000590-36-3	2
4	Acetamide	59	C2H5NO	000060-35-5	2
5	1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	2

****
Peak Number 21 Methane, diethoxy- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.86	23.55 ug/mL	1631420	Perylene-D12	20.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methane, diethoxy-	104	C5H12O2	000462-95-3	58
2	Methane, diethoxy-	104	C5H12O2	000462-95-3	52
3	Methane, diethoxy-	104	C5H12O2	000462-95-3	50
4	2-Propanol, 1,1'-[(1-methyl-1,2-eth	192	C9H20O4	001638-16-0	47
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	43

Tentatively Identified Compound (LSC) summary

Operator ID: MRC Date Acquired: 12 Aug 2005 7:38 pm
Data File: C:\HPCHEM\1\DATA\6081205\0812622.D
Name: G161-2104-1N 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

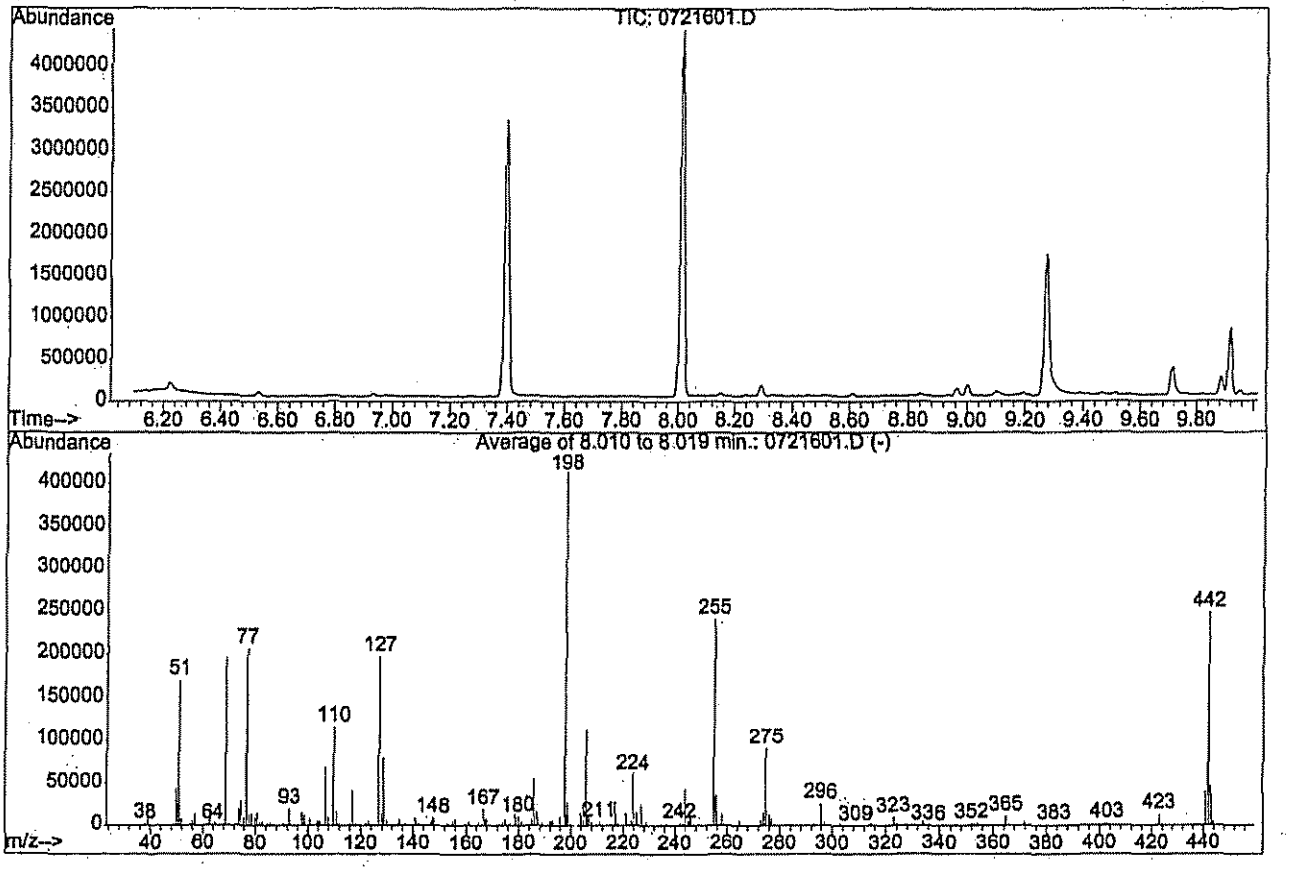
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Toluene	3.71	13.6	ug/mL	2935180	ISTD01	6.80	863244	4.0
Disulfide, ethyl iso	4.18	0.6	ug/mL	132890	ISTD01	6.80	863244	4.0
Ether	6.25	1.7	ug/mL	360302	ISTD01	6.80	863244	4.0
Ethane, 1,1'-oxybis[	9.23	4.7	ug/mL	1131540	ISTD02	8.72	965997	4.0
1-Propanol, 2-(2-hyd	9.42	1.0	ug/mL	252859	ISTD02	8.72	965997	4.0
2-Propanol, 1,1'-[(1	9.46	2.1	ug/mL	513809	ISTD02	8.72	965997	4.0
Spiro[3.3]heptane-2,	11.66	16.0	ug/mL	5085420	ISTD03	11.50	1272970	4.0
Methane, diethoxy-	11.82	2.2	ug/mL	685006	ISTD03	11.50	1272970	4.0
2-Propanol, 1-[1-met	11.86	2.8	ug/mL	880163	ISTD03	11.50	1272970	4.0
2,5,8,11,14-Pentaoxa	13.80	0.9	ug/mL	407372	ISTD04	13.88	1719660	4.0
2-Propanol, 1,1'-[(1	15.68	0.6	ug/mL	236499	ISTD04	13.88	1719660	4.0
3-Pentanol, 3-ethyl-	16.08	0.6	ug/mL	93496	ISTD05	18.12	655979	4.0
Hydrazine, 2-butyl-1	16.59	5.2	ug/mL	860095	ISTD05	18.12	655979	4.0
Methane, diethoxy-	18.05	22.3	ug/mL	3660230	ISTD05	18.12	655979	4.0
2,5,8,11,14-Pentaoxa	18.59	2.9	ug/mL	474187	ISTD05	18.12	655979	4.0
2-Propanol, 1,1'-[(1	19.36	86.7	ug/mL	6009220	ISTD06	20.34	277085	4.0
Methane, diethoxy-	19.89	11.4	ug/mL	789083	ISTD06	20.34	277085	4.0
Methane, diethoxy-	20.80	68.9	ug/mL	4772050	ISTD06	20.34	277085	4.0
Methane, diethoxy-	21.53	7.5	ug/mL	521689	ISTD06	20.34	277085	4.0
1-Propanol, 2-(2-met	22.75	1.3	ug/mL	86788	ISTD06	20.34	277085	4.0
Methane, diethoxy-	22.86	23.6	ug/mL	1631420	ISTD06	20.34	277085	4.0

0812622.D 8270.M Mon Aug 15 11:20:50 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

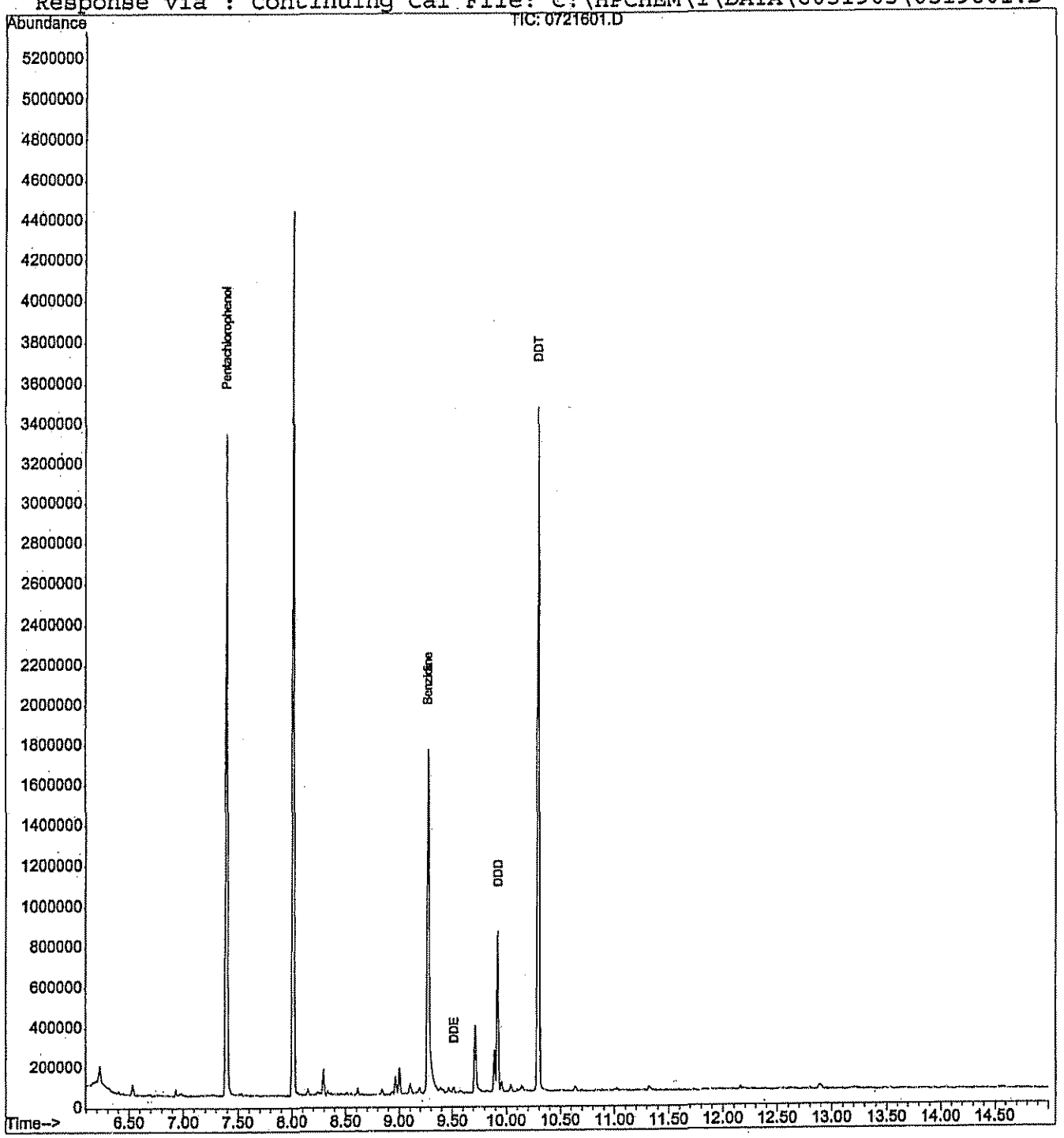
Quantitation Report

Data File : C:\HPCHEM\1\DATA\6072105\0721601.D
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

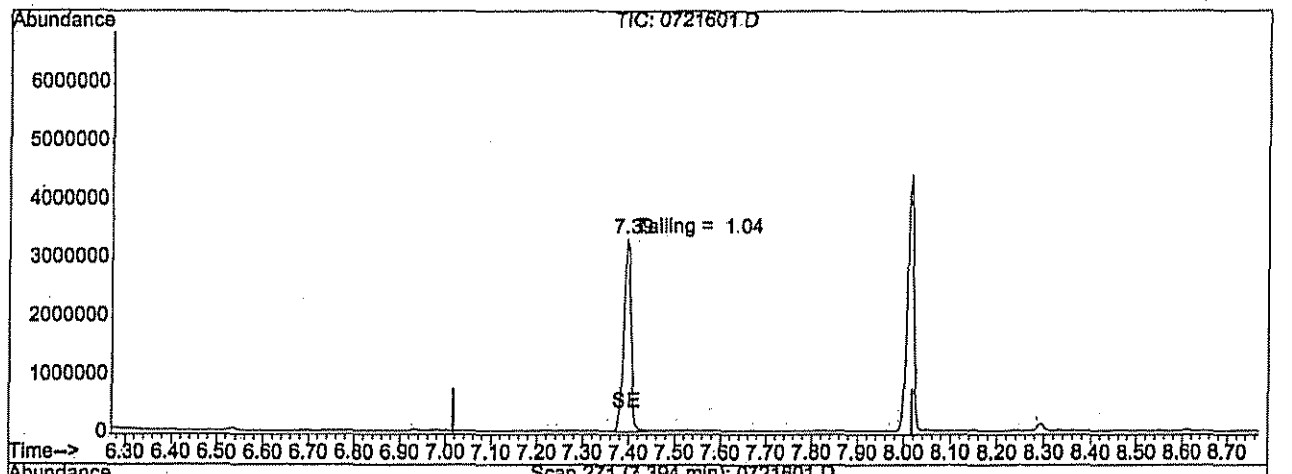
Method : C:\HPCHEM\1\DATA\6072105\DFTPP.M (RTE Integrator)
Title :
Last Update : Fri Feb 11 16:46:48 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6051905\0519601.D

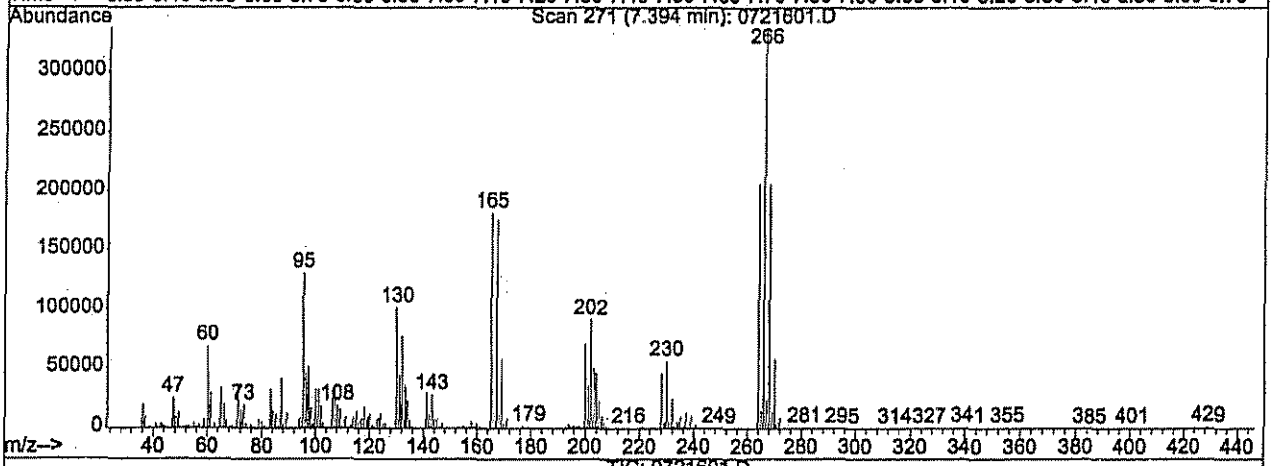


Quantitation Report (Qedit)

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

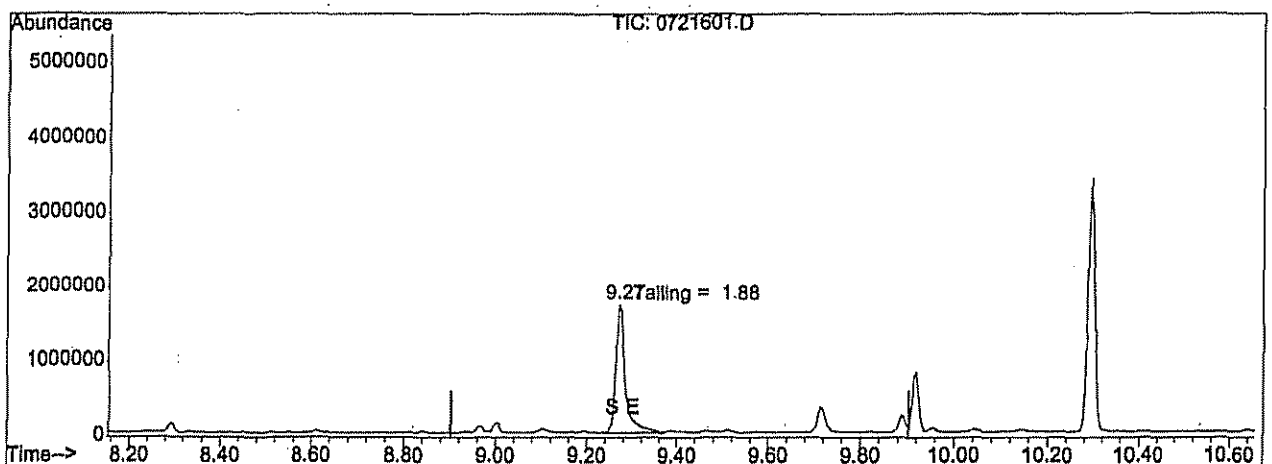
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

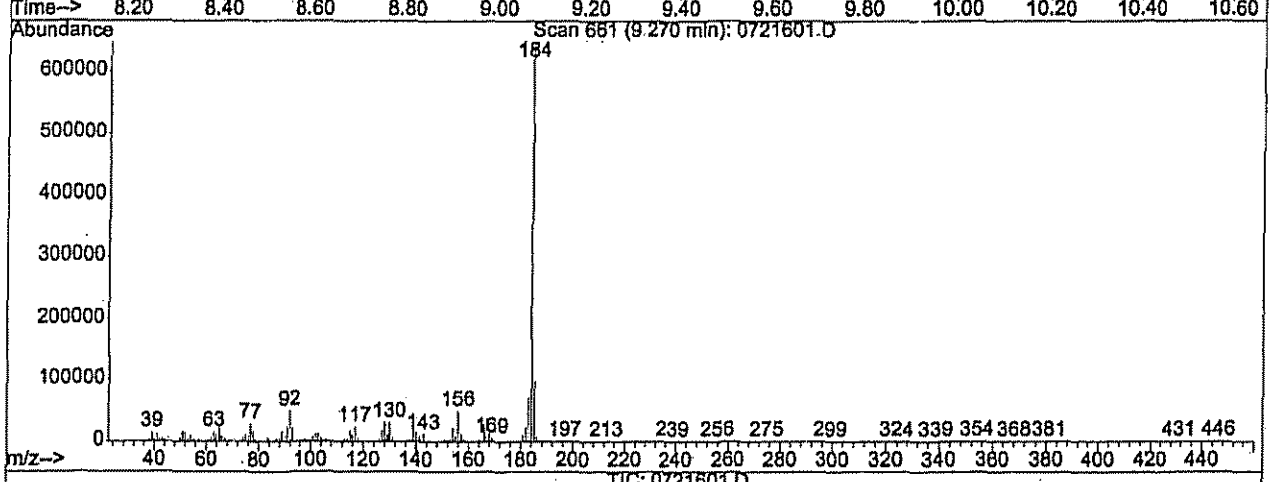
0721601.D DFTPP.M Thu Jul 21 11:11:21 2005 ENV

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%**

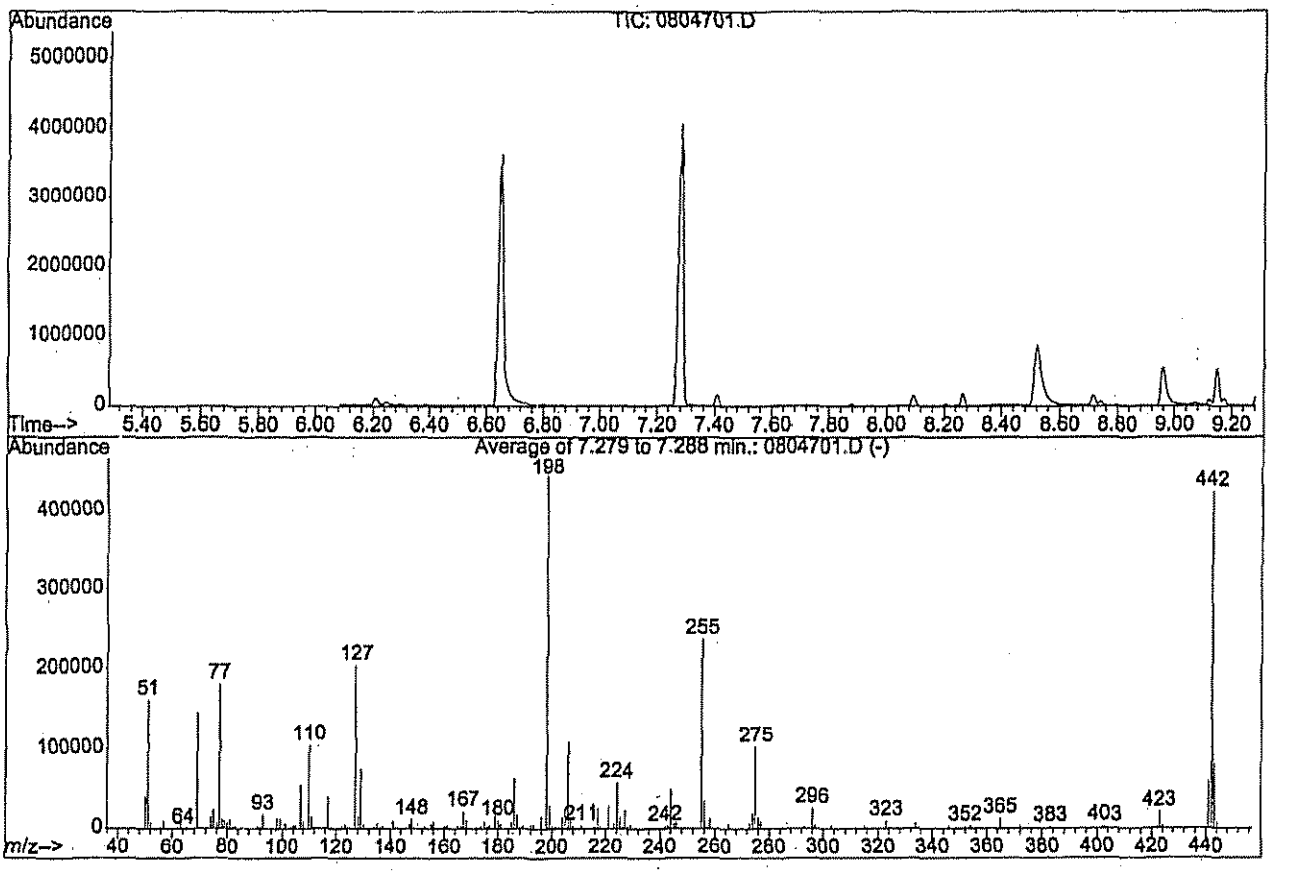
Date: 07/21/05

Instrument: MSD6

File: 0721601.d

DFTPP

Data File : C:\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
Method : C:\MSDCHEM\1\DATA\7080405\DFTPP.M (RTE Integrator)
Title :



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	

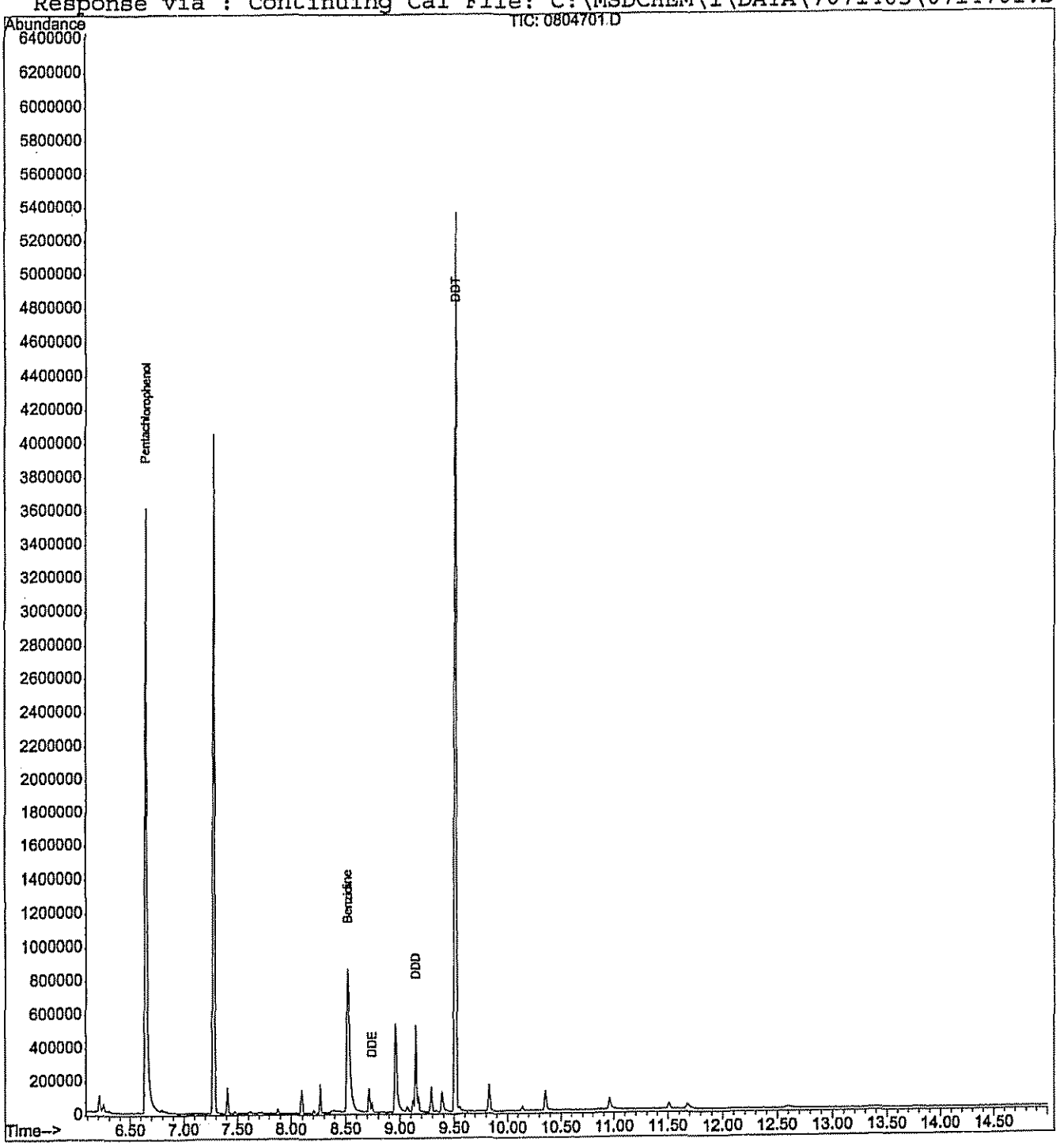
(#) = qualifier out of range (m) = manual integration
0804701.D DFTPP.M Thu Aug 04 09:00:10 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7080405\0804701.D
Acq On : 4 Aug 2005 8:20 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 8:59 2005

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00
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

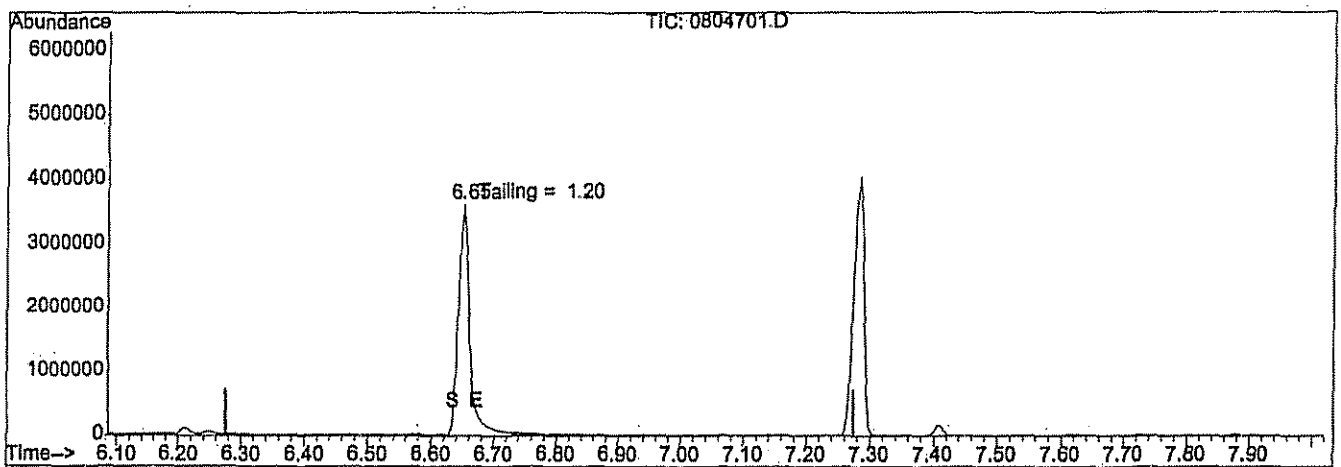


0804701.D DFTPP.M Thu Aug 04 09:00:11 2005 ENV Page 2

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



TIC: 0804701.D

(1) Pentachlorophenol

6.65min 12.03

response 4663965

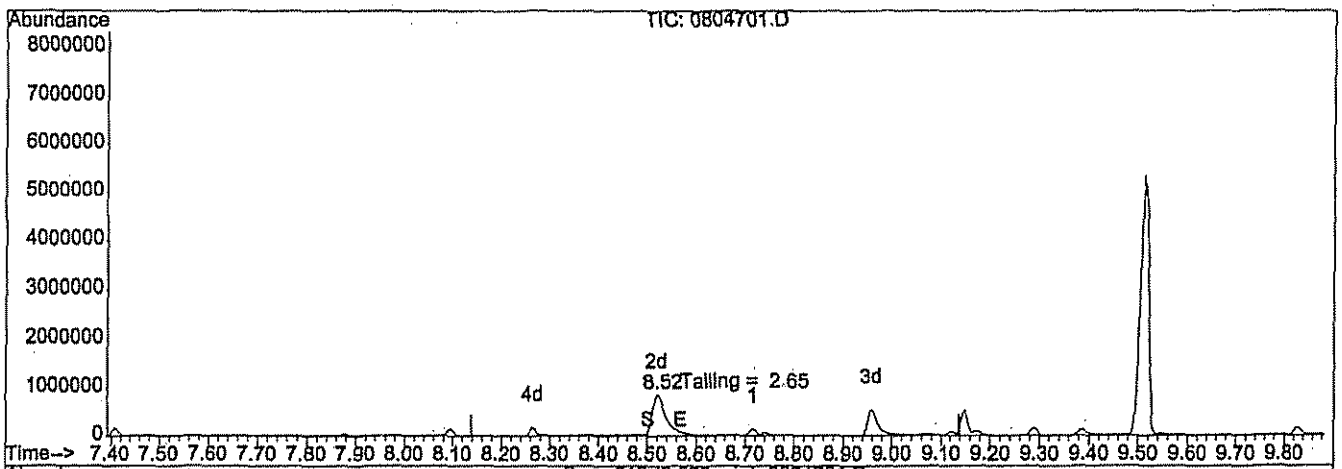
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

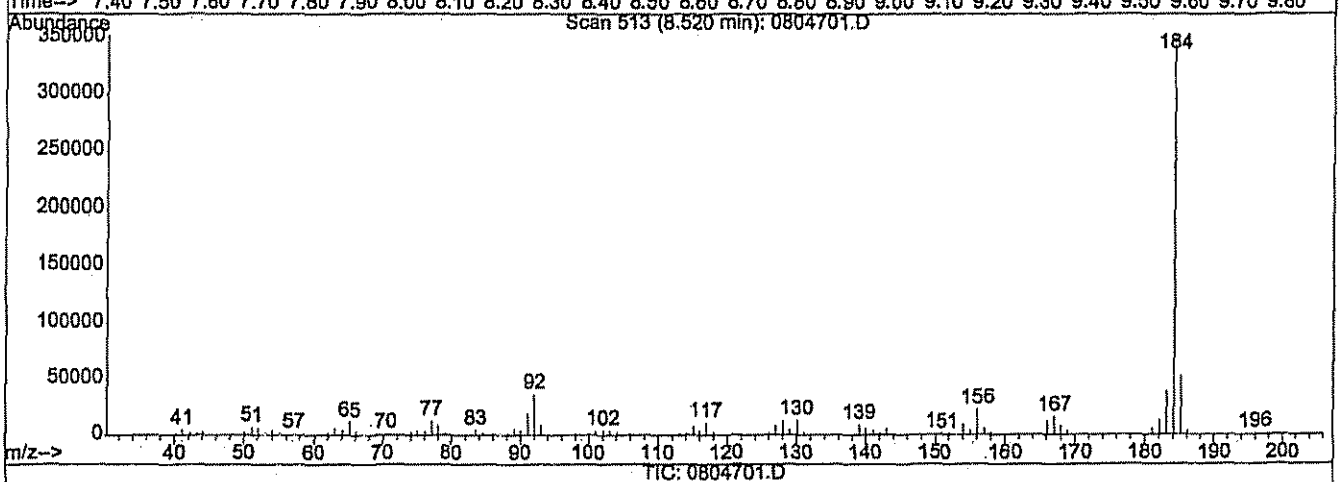
0804701.D DFTPP.M Thu Aug 04 09:00:41 2005 ENV

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

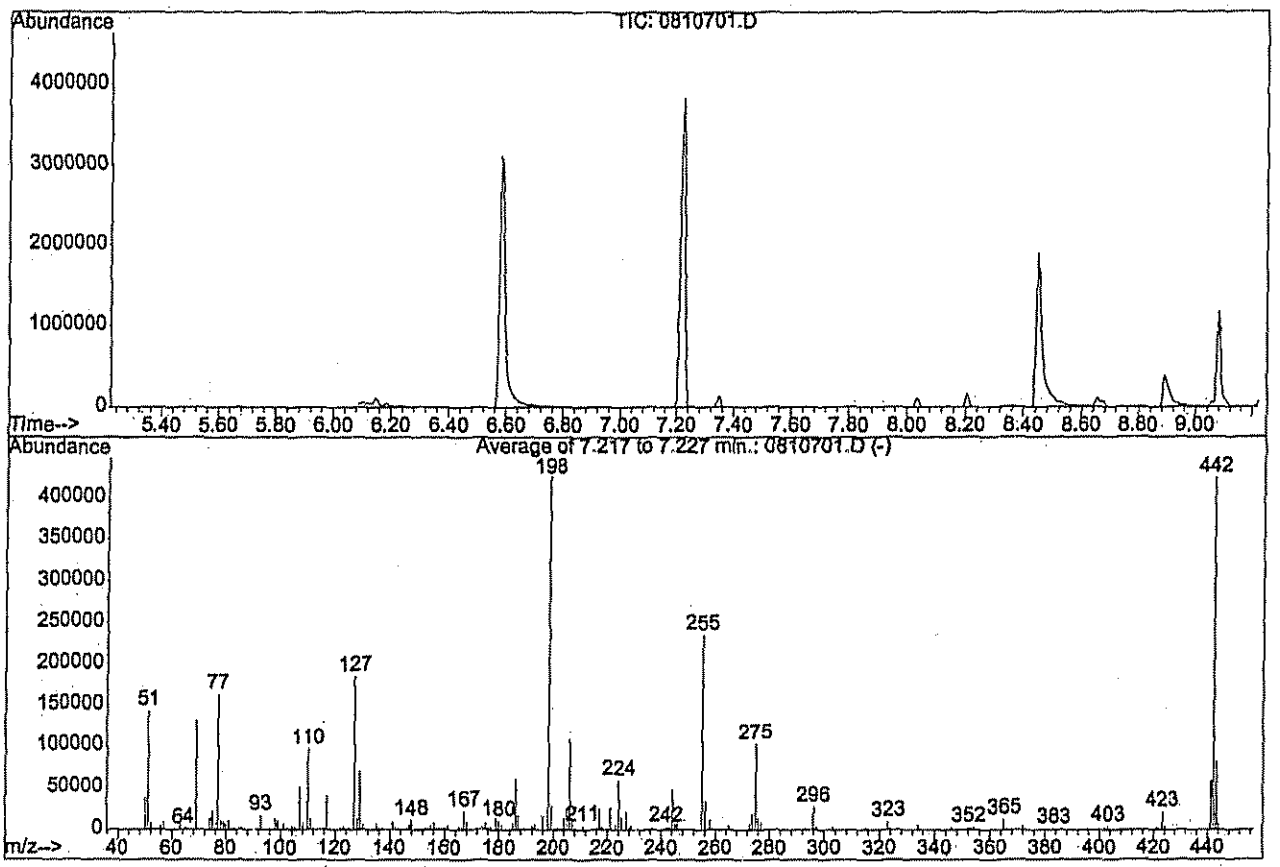
DFTPP TUNE

		Area
GCMS	DDT	6267740
	DDD	438115
	DDE	39658
	% Breakdown =	**7.08%**

Date: 08/04/05
Instrument: MSD7
File: 0804701.d

DFTPP

Data File : C:\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

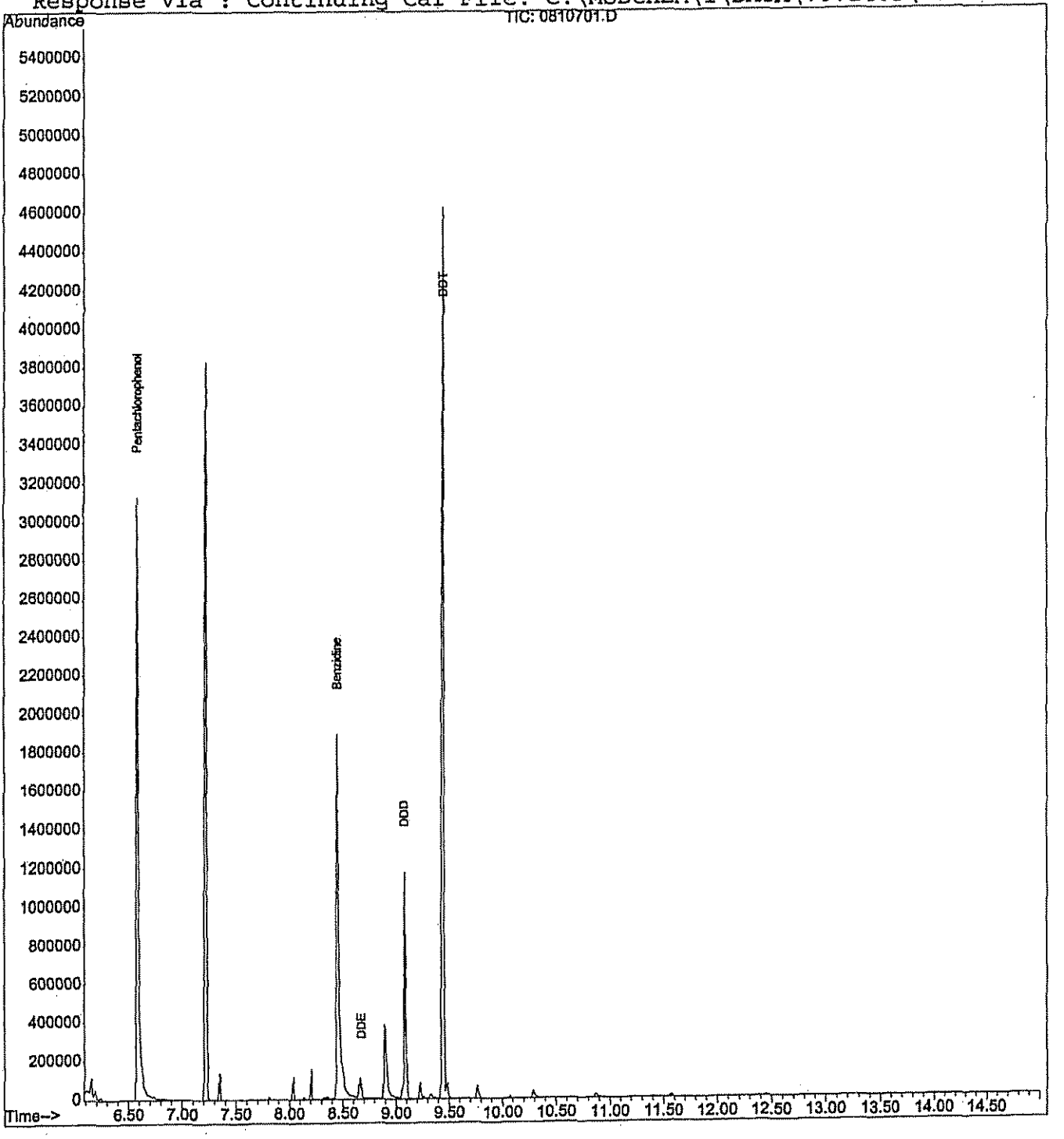
Quantitation Report (QT Reviewed)

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

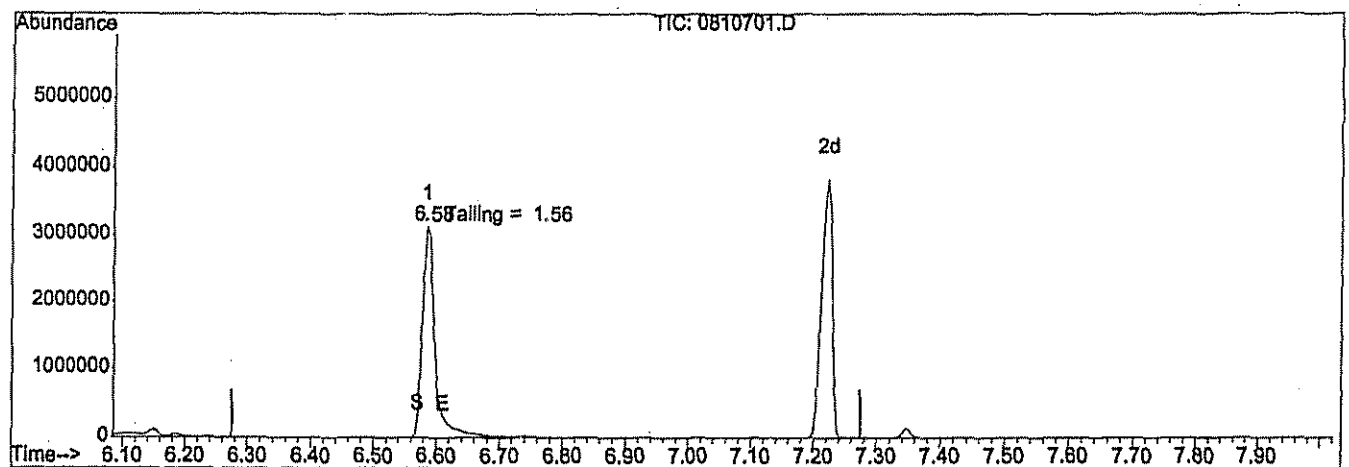


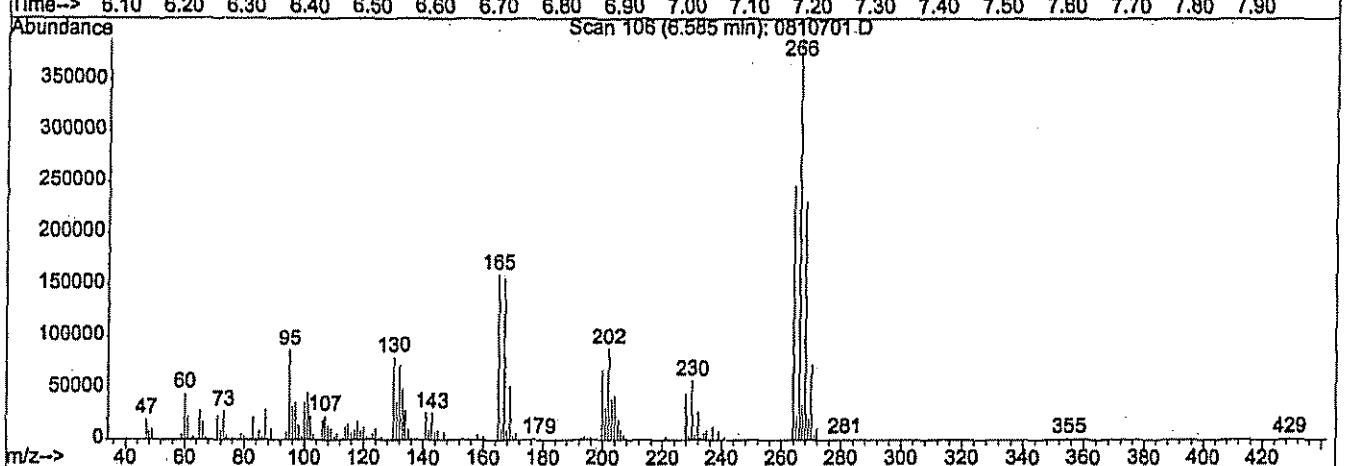
0810701.D DFTPP.M Wed Aug 10 11:20:58 2005 ENV Page 2

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

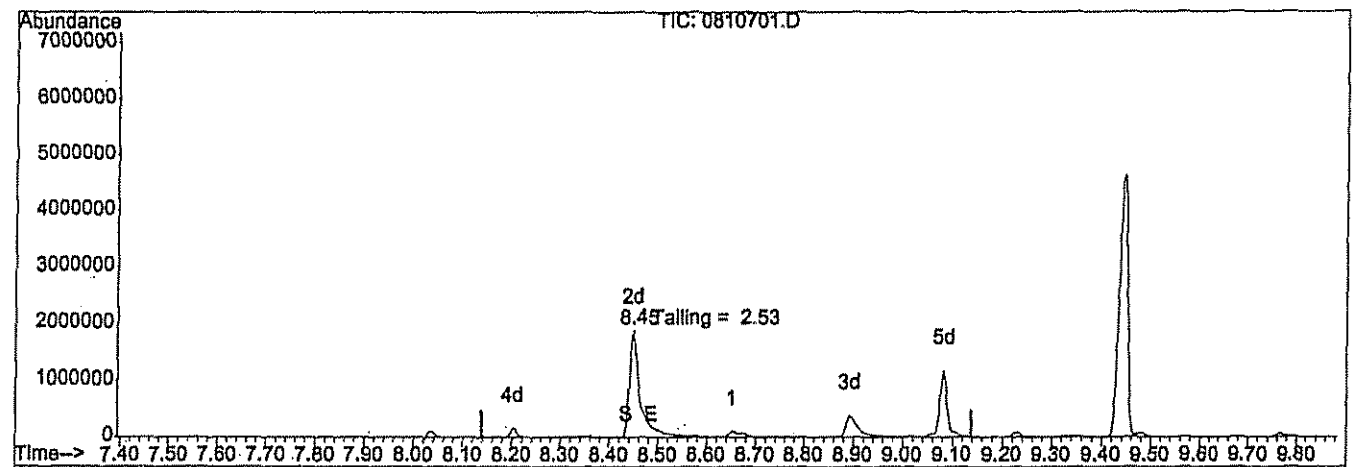
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

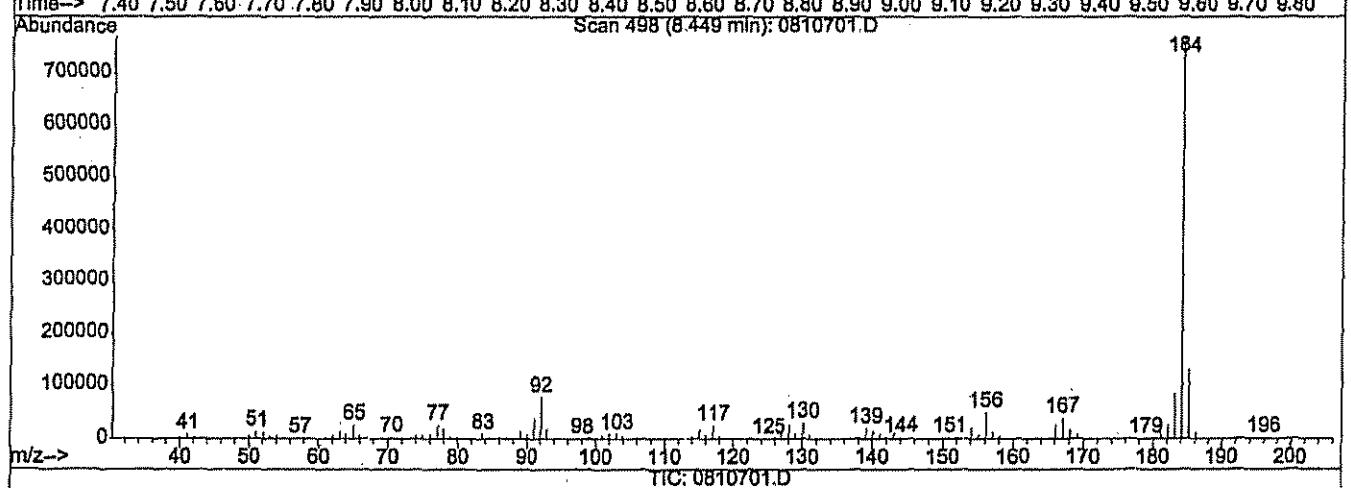
0810701.D DFTPP.M Wed Aug 10 11:24:04 2005 ENV

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

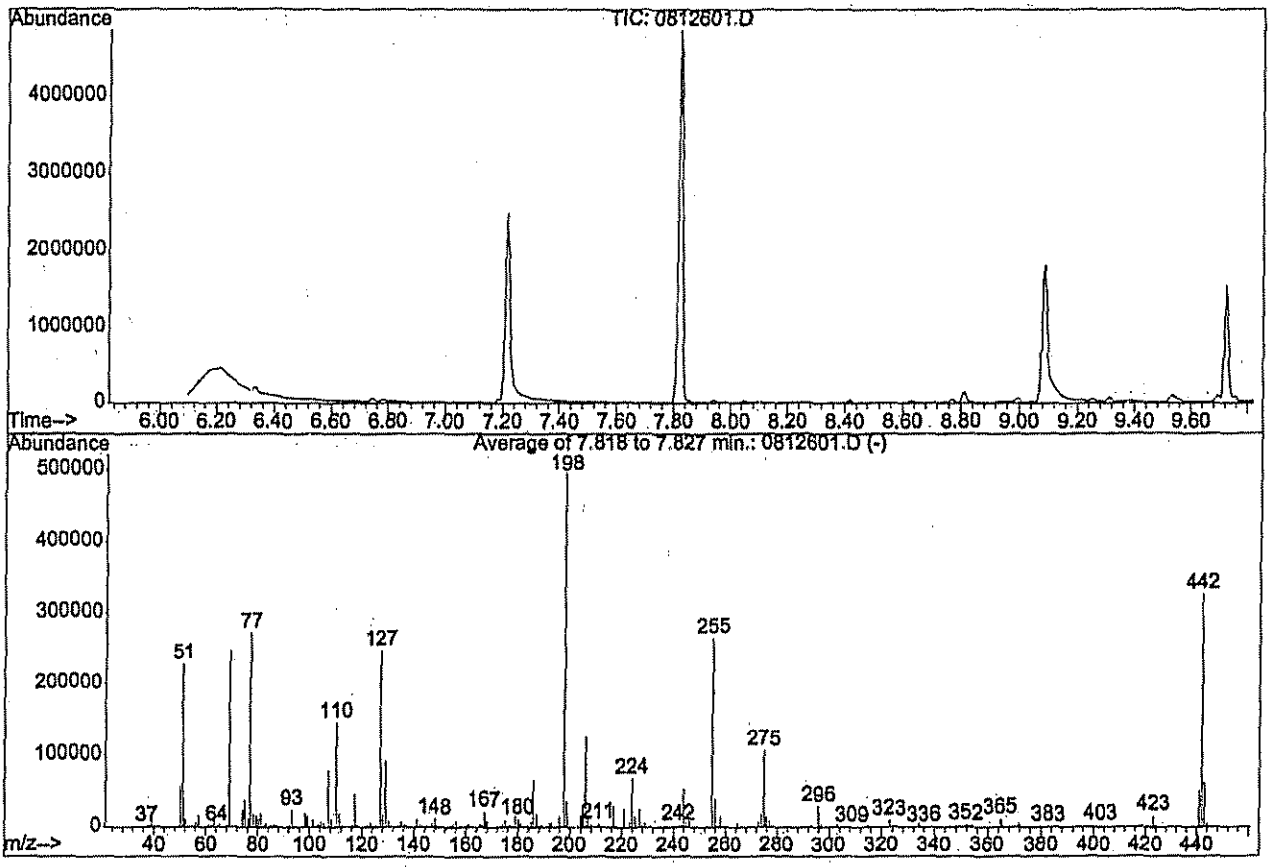
DFTPP TUNE

		Area
GCMS	DDT	5633737
	DDD	1029739
	DDE	51740
	% Breakdown =	**16.10%**

Date: 08/10/05
Instrument: MSD7
File: 0810701.d

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	

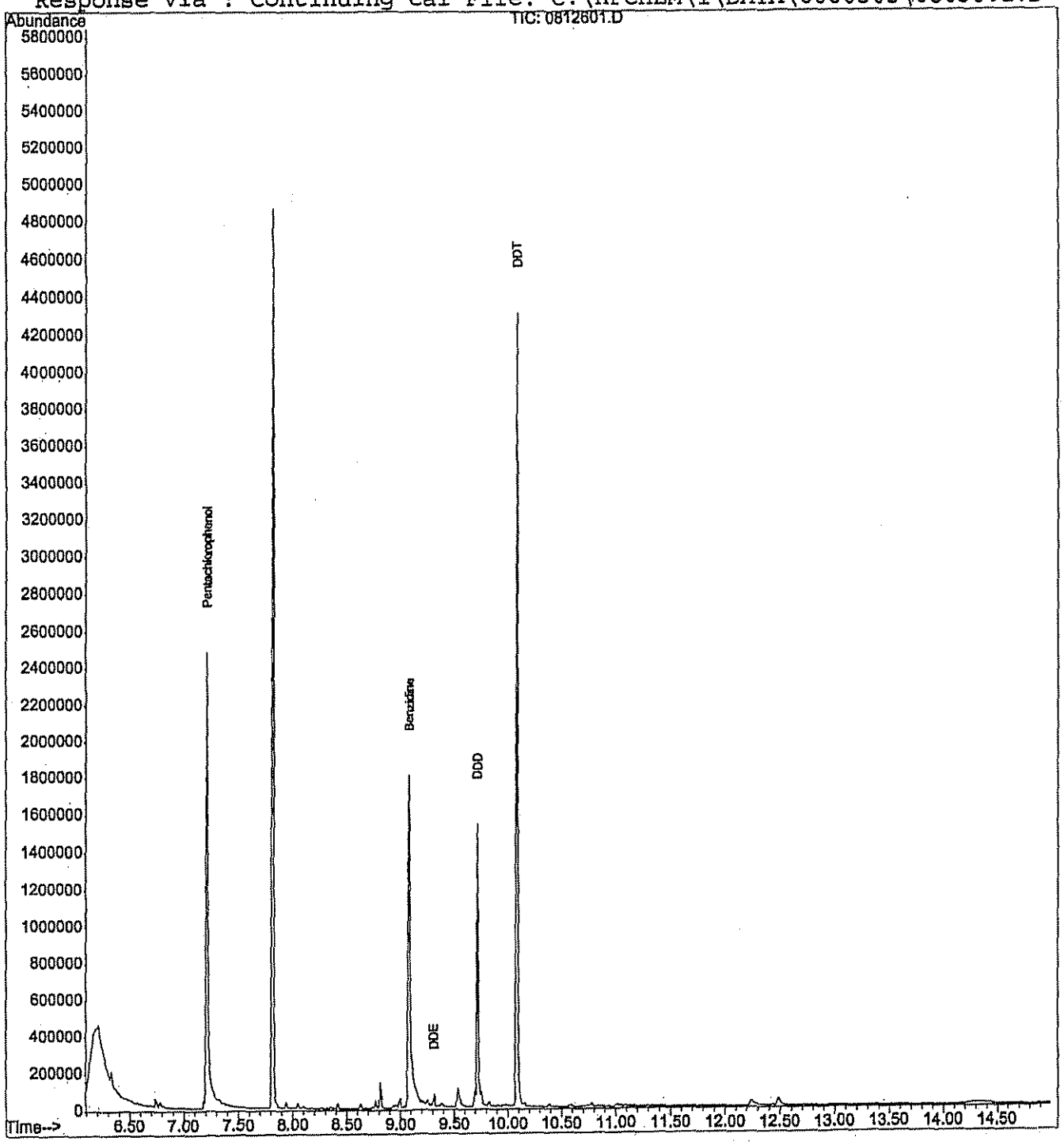
(#) = qualifier out of range (m) = manual integration
0812601.D DFTPP.M Fri Aug 12 08:33:37 2005 ENV Page 1

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

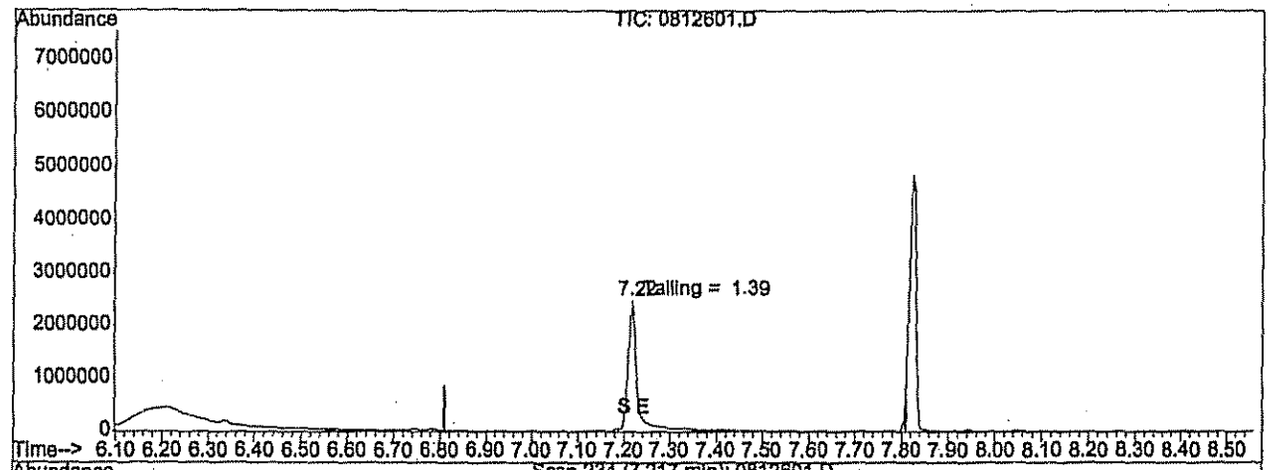
Method : C:\HPCHEM\1\DATA\6081205\DFTPP.M (RTE Integrator)
Title :
Last Update : Wed Aug 03 09:55:38 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\6080305\0803601.D

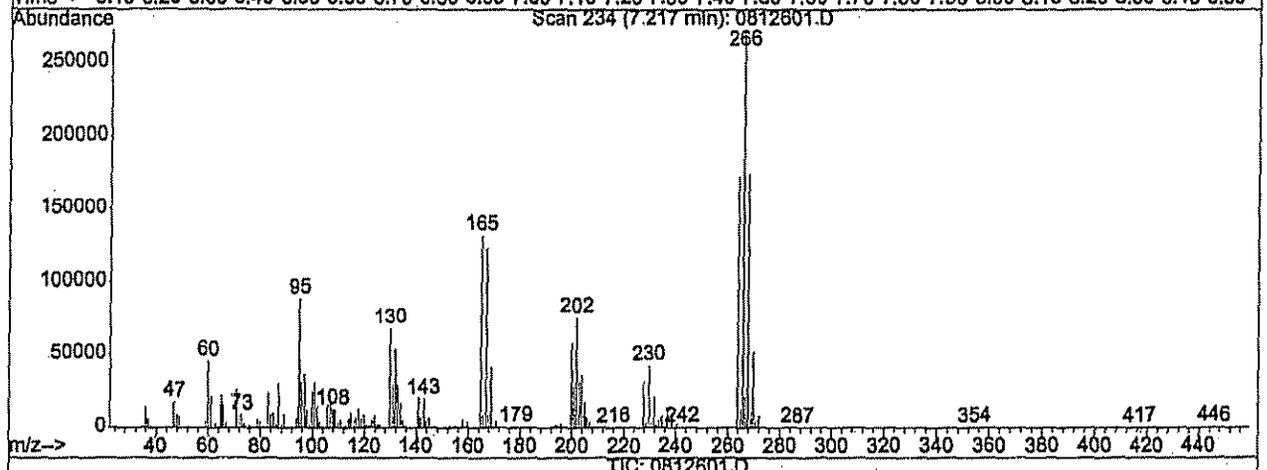


Quantitation Report (Qedit)

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

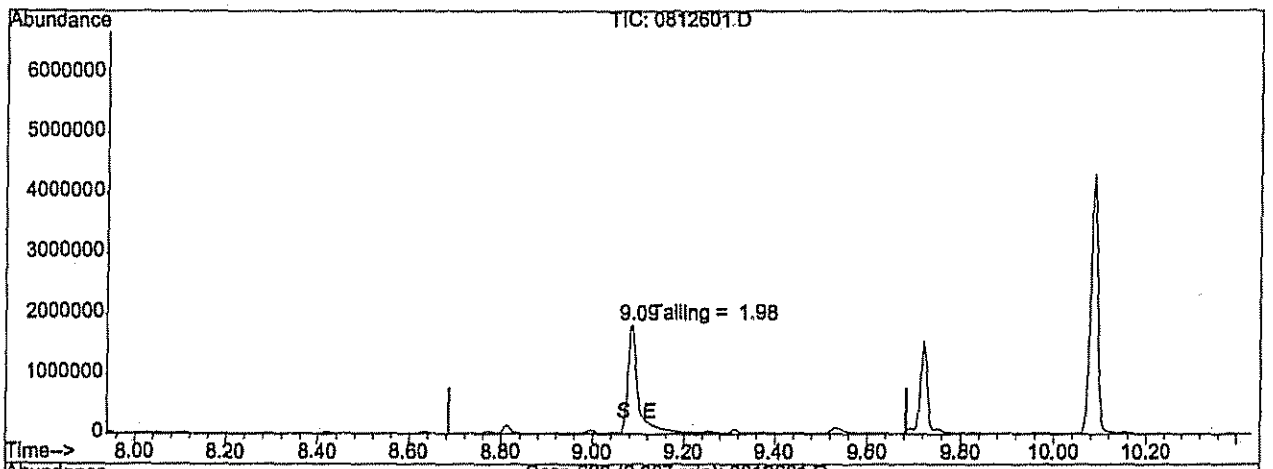
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

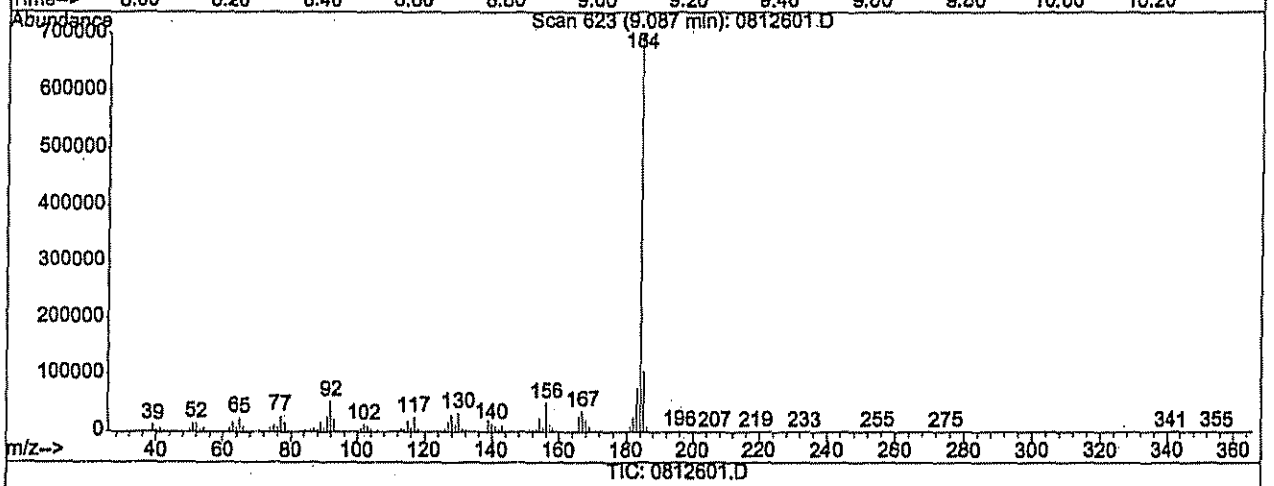
0812601.D DFTPP.M Fri Aug 12 08:34:23 2005 ENV

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

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

MRC 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
0721602.D 8270.M Thu Jul 21 14:10:01 2005 ENV Page 1

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

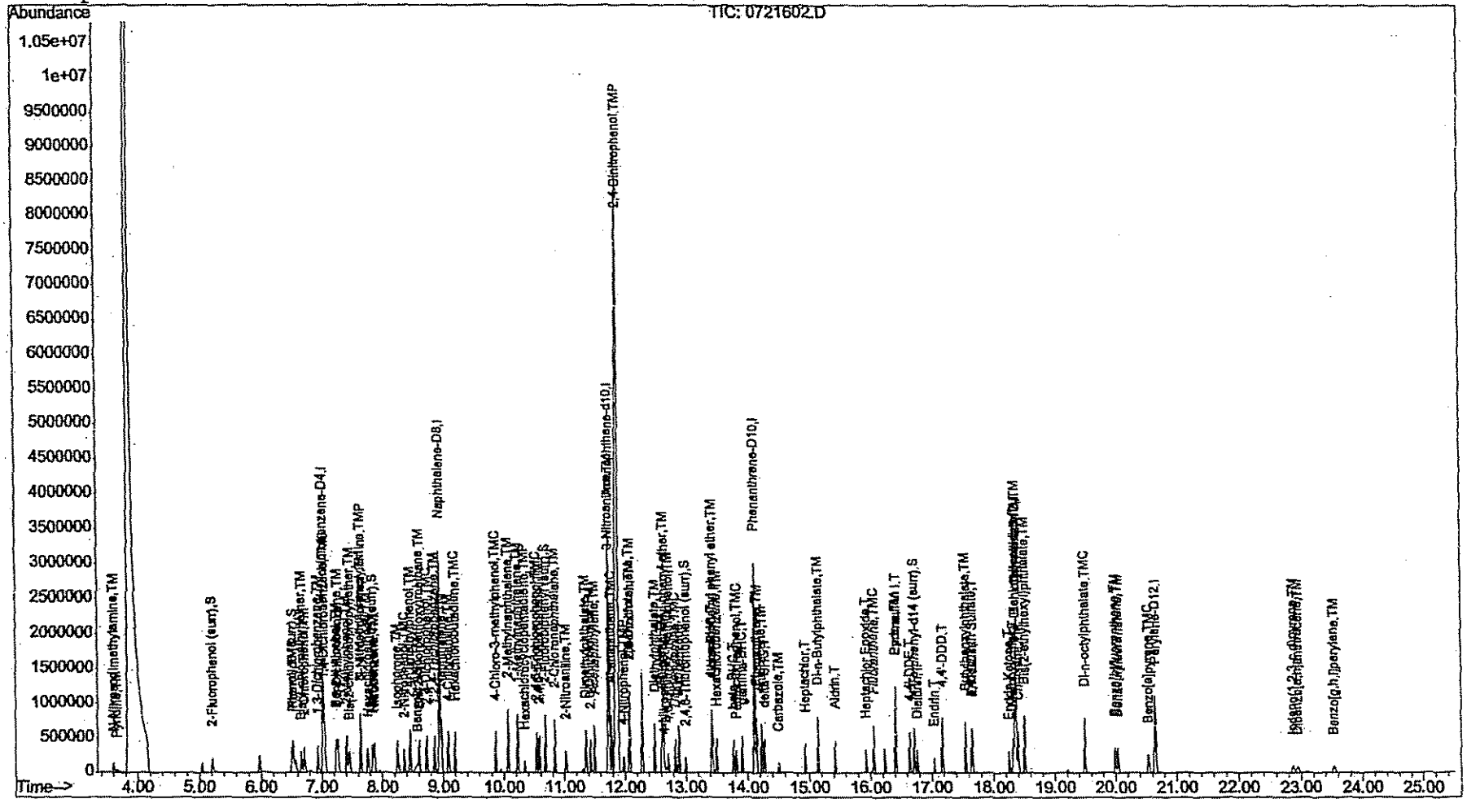
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	65538	1.11 ug/mL	97
72)	Aldrin	15.42	66	69627	1.02 ug/mL	92
73)	Heptachlor Epoxide	15.93	353	21321	1.03 ug/mL	98
74)	Endosulfan I	16.42	195	16419	0.96 ug/mL#	67
75)	4,4'-DDE	16.64	246	100530	1.04 ug/mL	98
76)	Dieldrin	16.76	79	83921	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

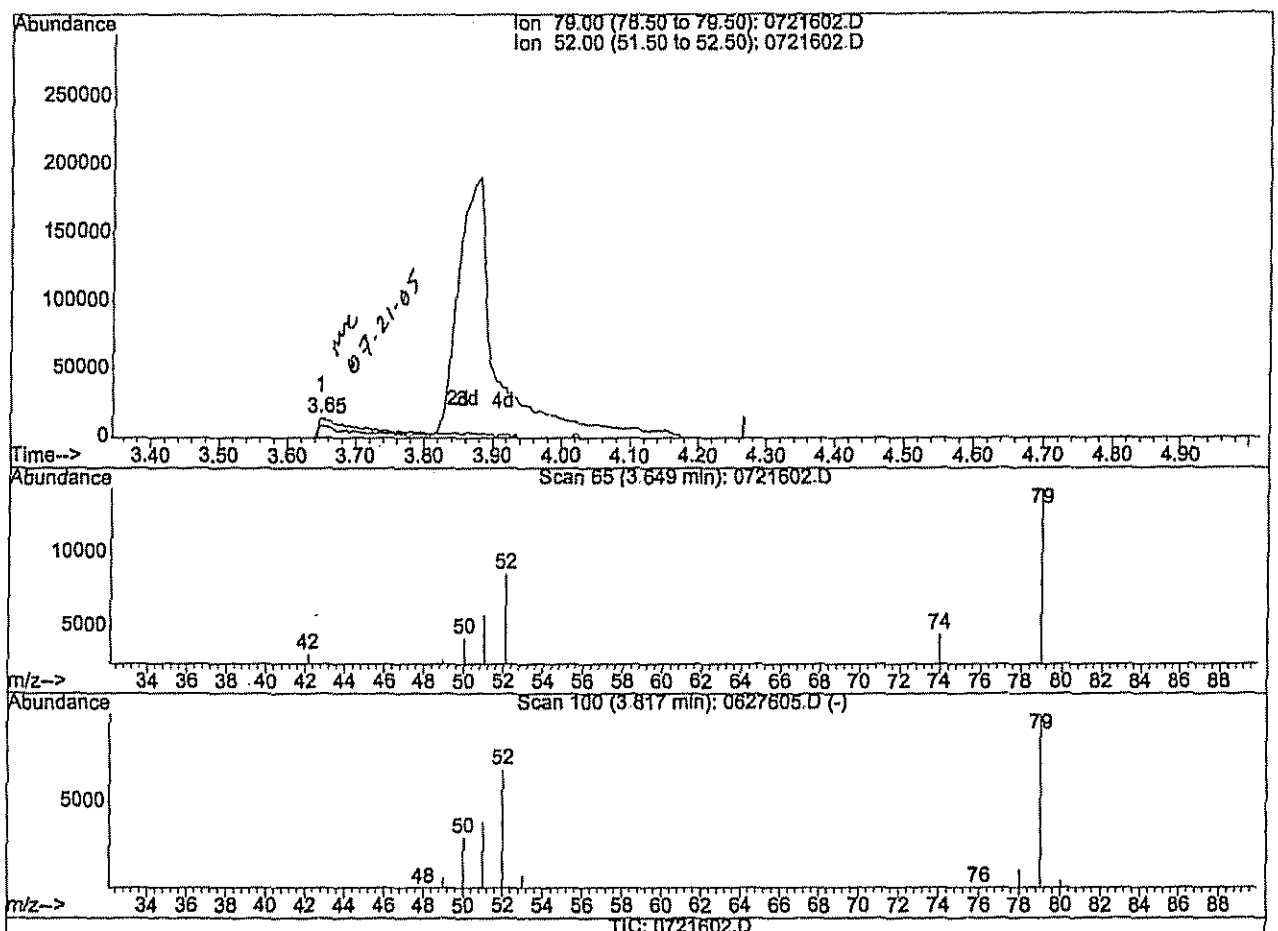


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721602.D
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



(2) Pyridine (TM)

3.65min 1.37ug/mL m

response 86705

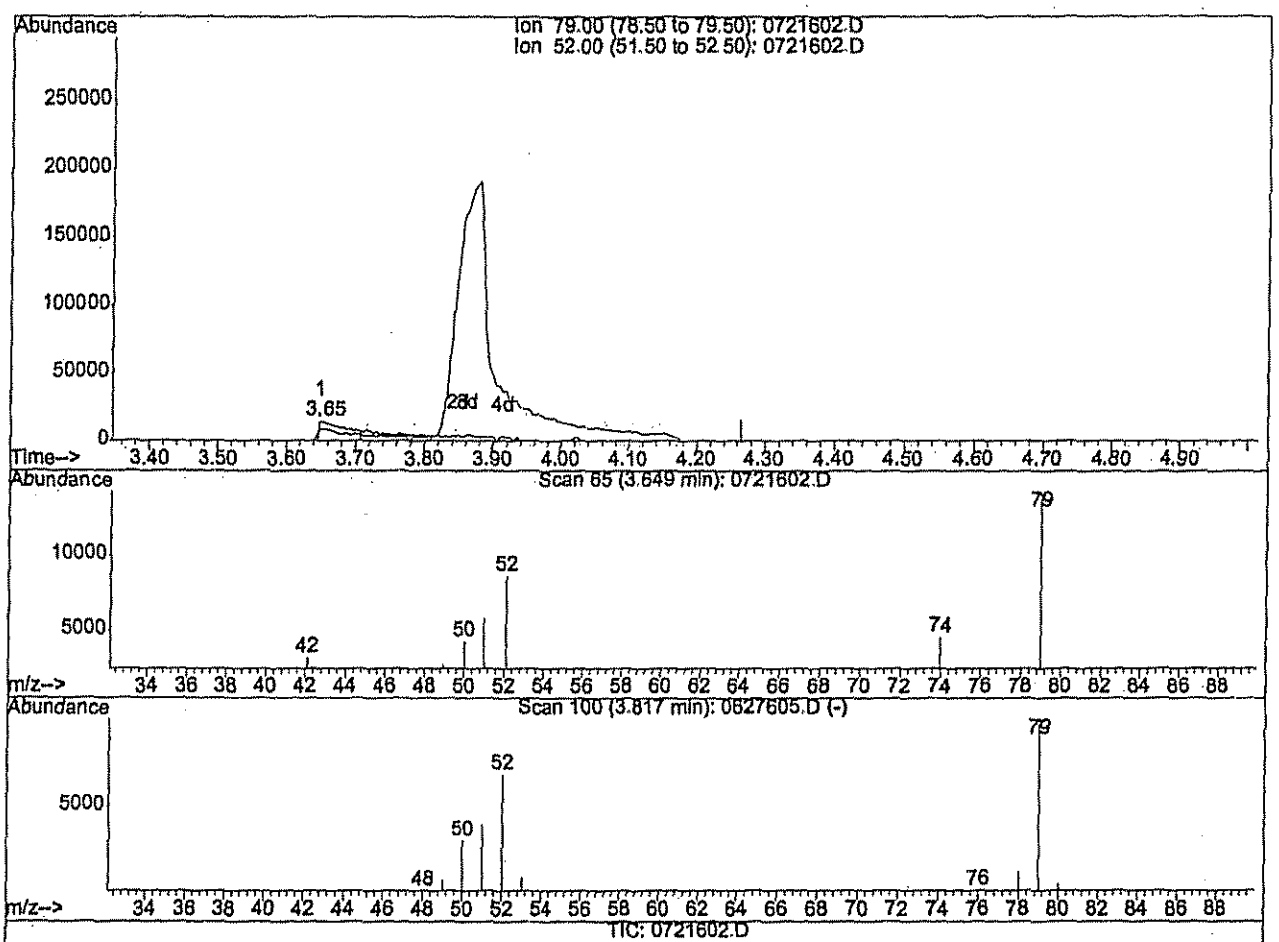
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	22.98#
0.00	0.00	0.00
0.00	0.00	0.00

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

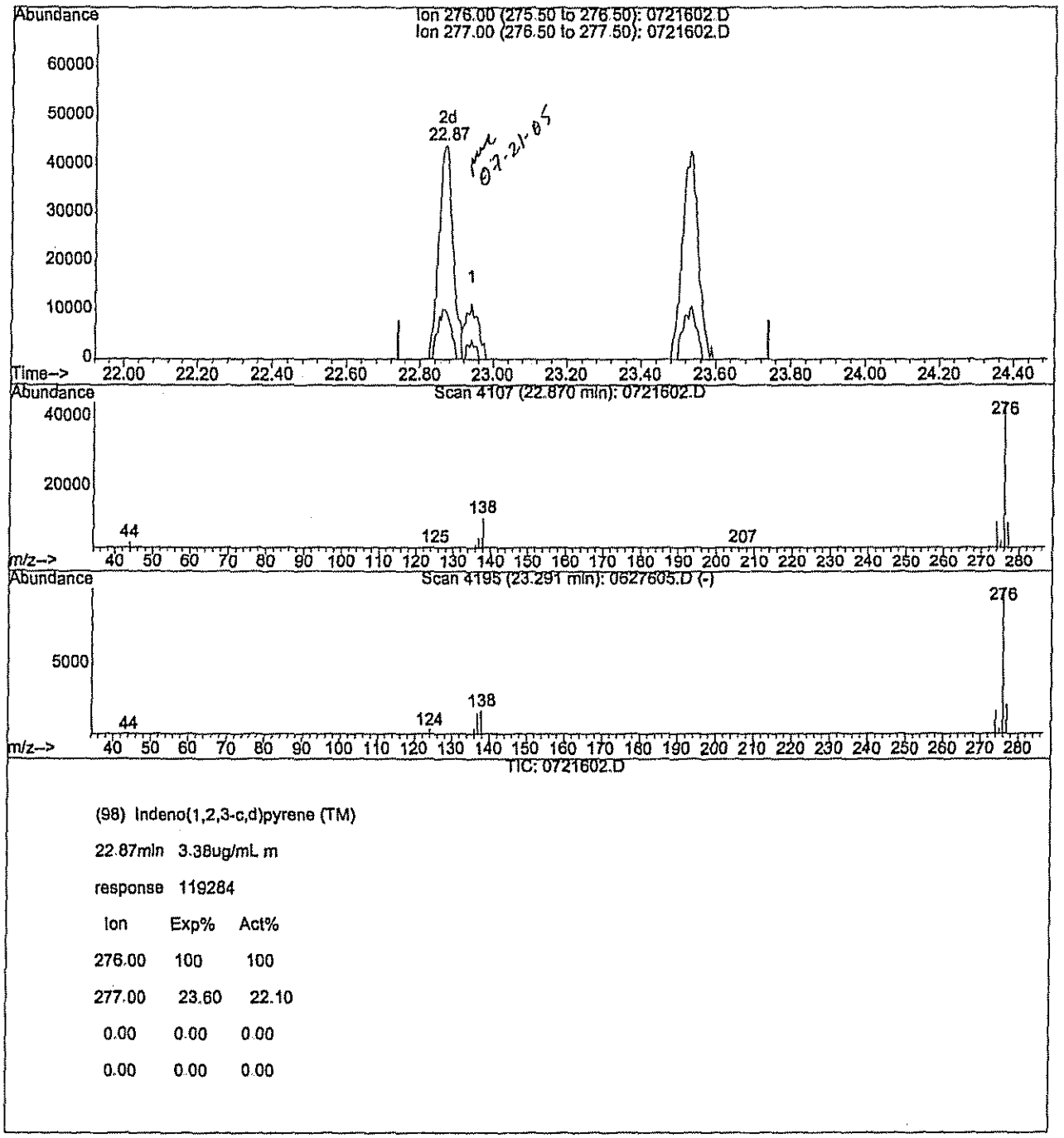
Ion	Exp%	Act%
79.00	100	100
52.00	59.70	52.51
0.00	0.00	0.00
0.00	0.00	0.00

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

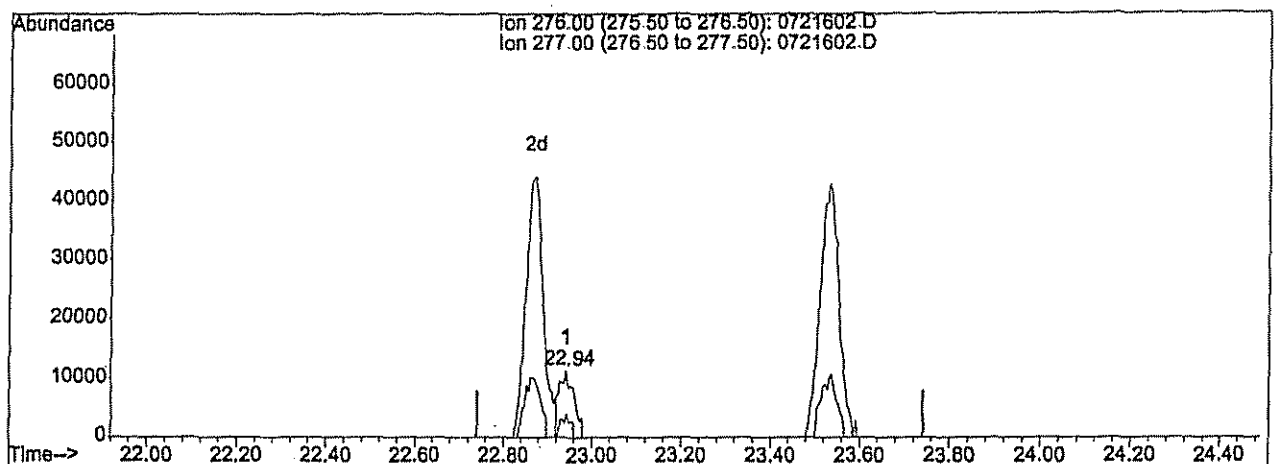
0721602.D 8270.M Thu Jul 21 11:14:50 2005 ENV

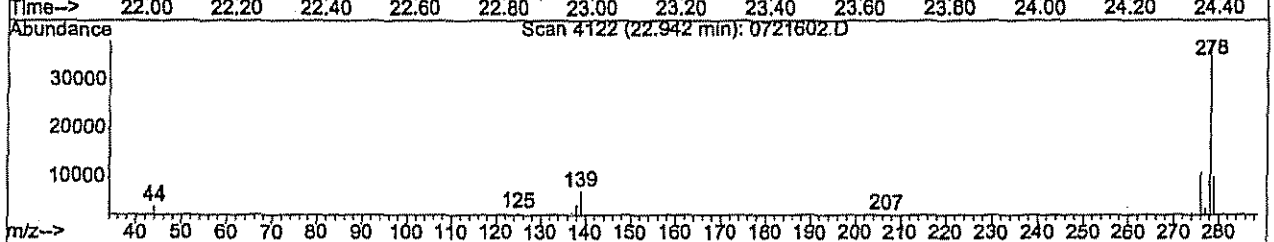
Quantitation Report (Qedit)

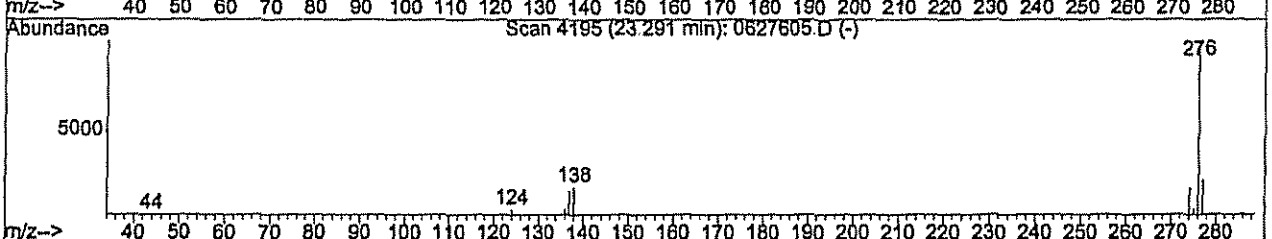
Data File : C:\HPCHEM\1\DATA\6072105\0721602.D
Acq On : 21 Jul 2005 9:18 am
Sample : SVCAL1
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:13 2005

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







TIC: 0721602.D

(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

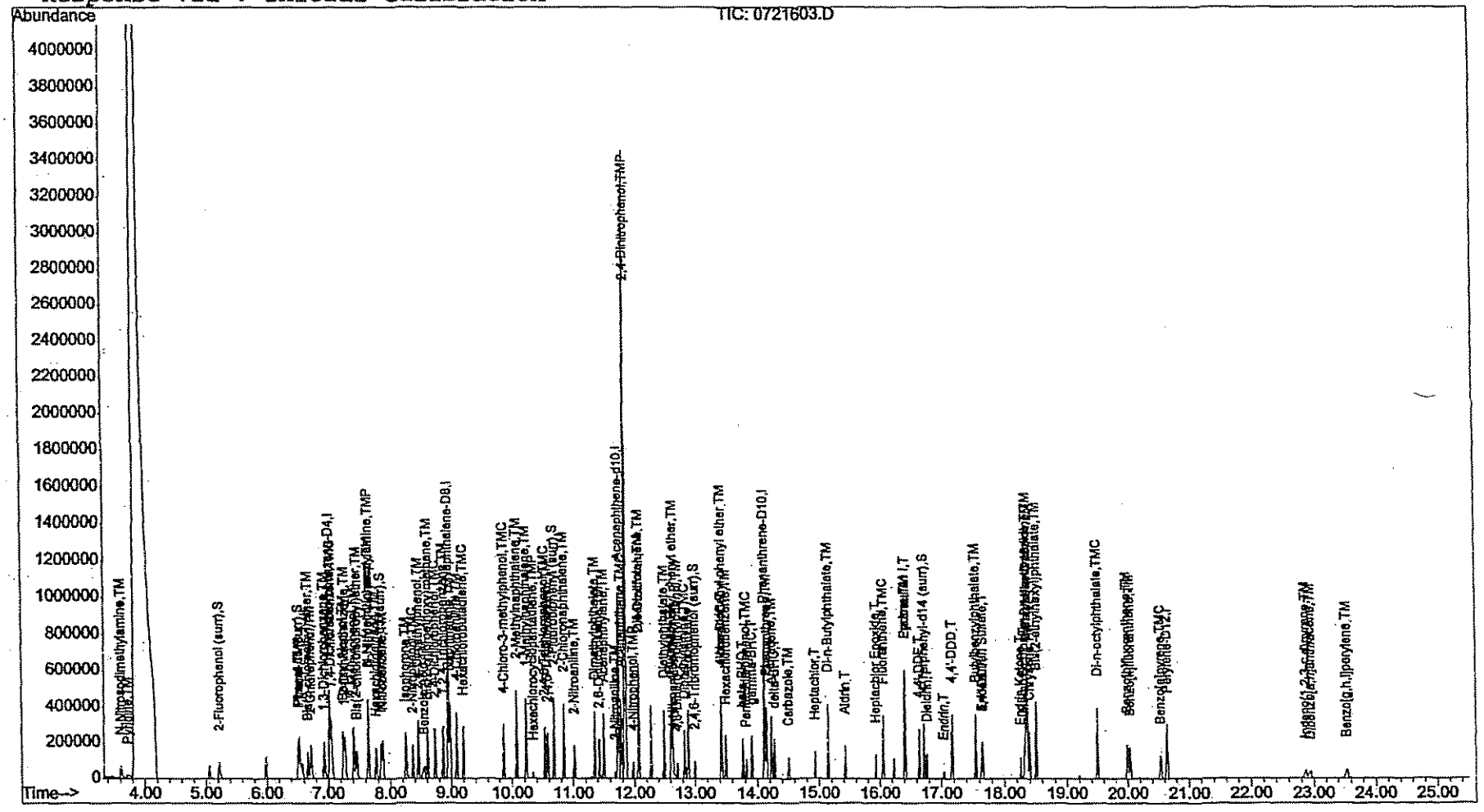
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	32349	1.78 ug/mL	98
72)	Aldrin	15.42	66	36921	1.91 ug/mL	95
73)	Heptachlor Epoxide	15.93	353	12141	2.05 ug/mL	93
74)	Endosulfan I	16.42	195	9346	2.05 ug/mL#	73
75)	4,4'-DDE	16.64	246	49144	1.76 ug/mL	92
76)	Dieldrin	16.76	79	47157	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

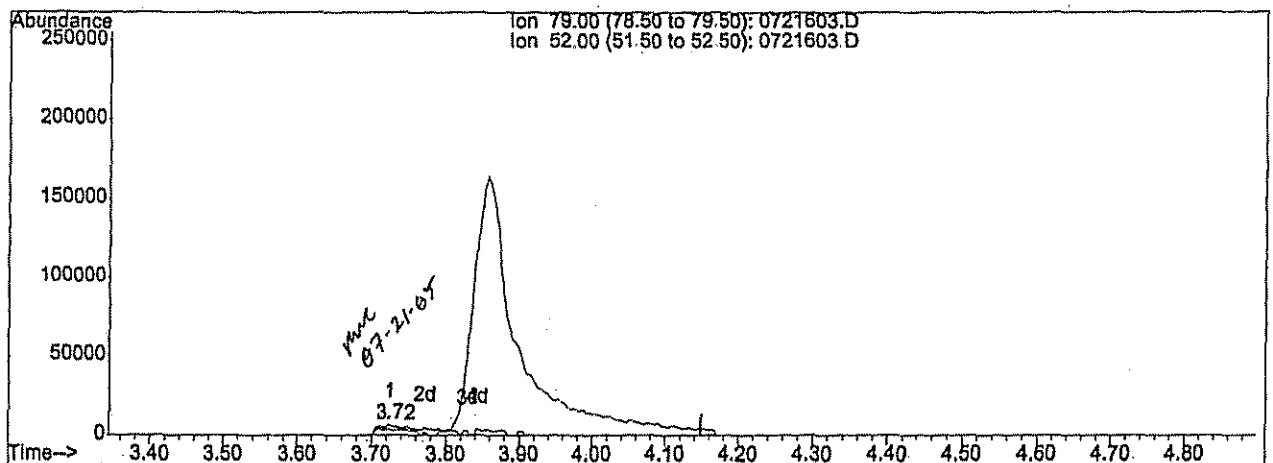
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

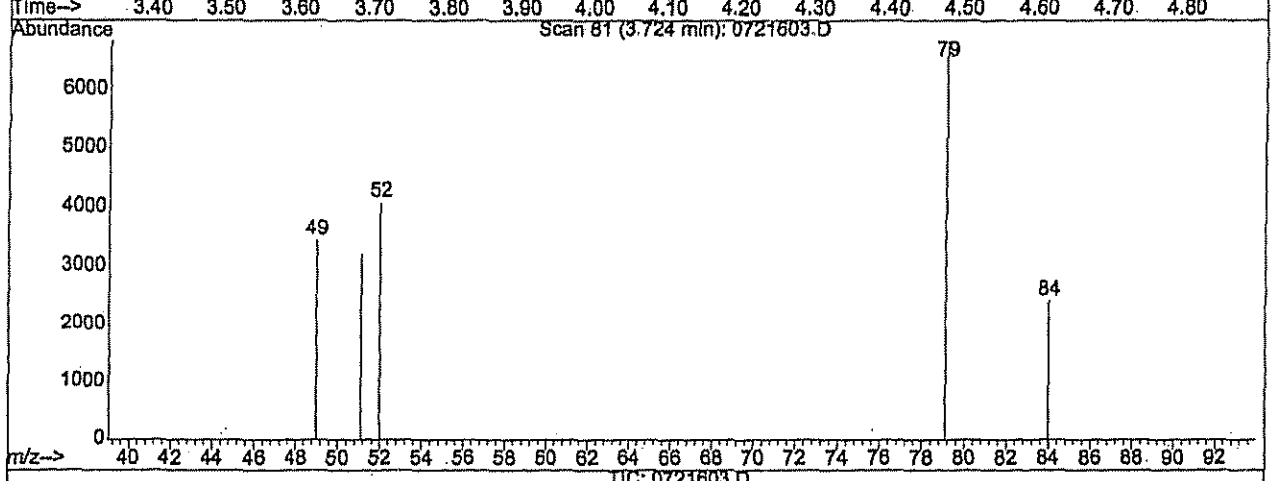


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D 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

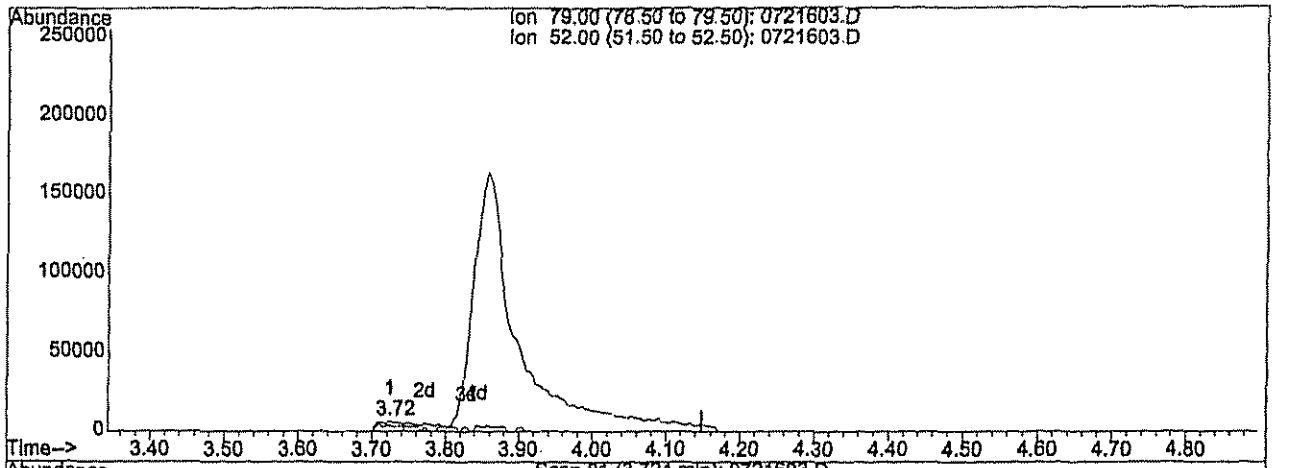
0721603.D 8270.M Thu Jul 21 11:16:05 2005 ENV

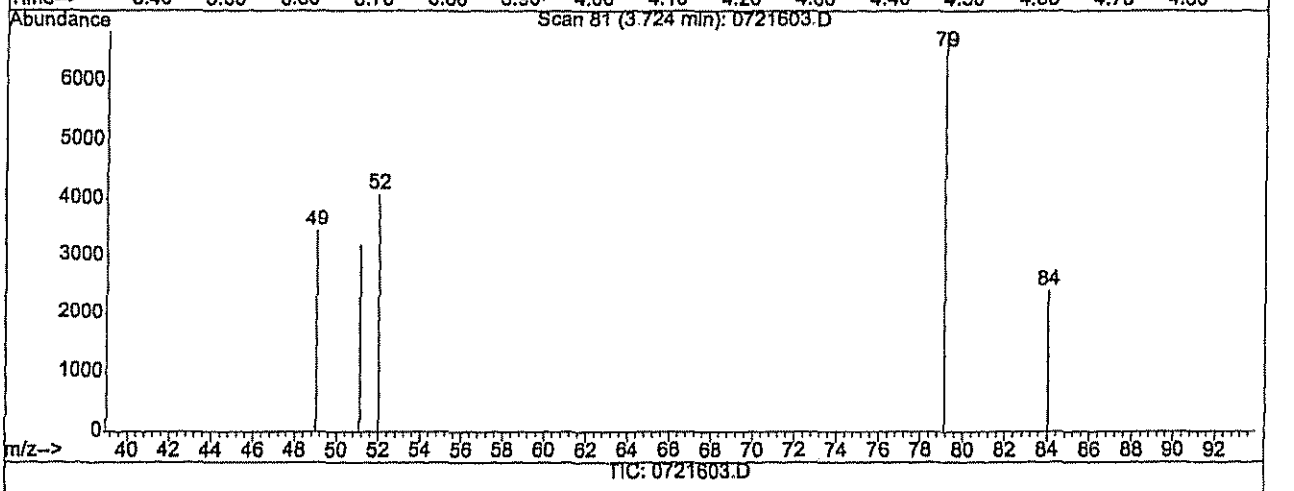
Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
Acq On : 21 Jul 2005 9:52 am
Sample : SVCAL2
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:15 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 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

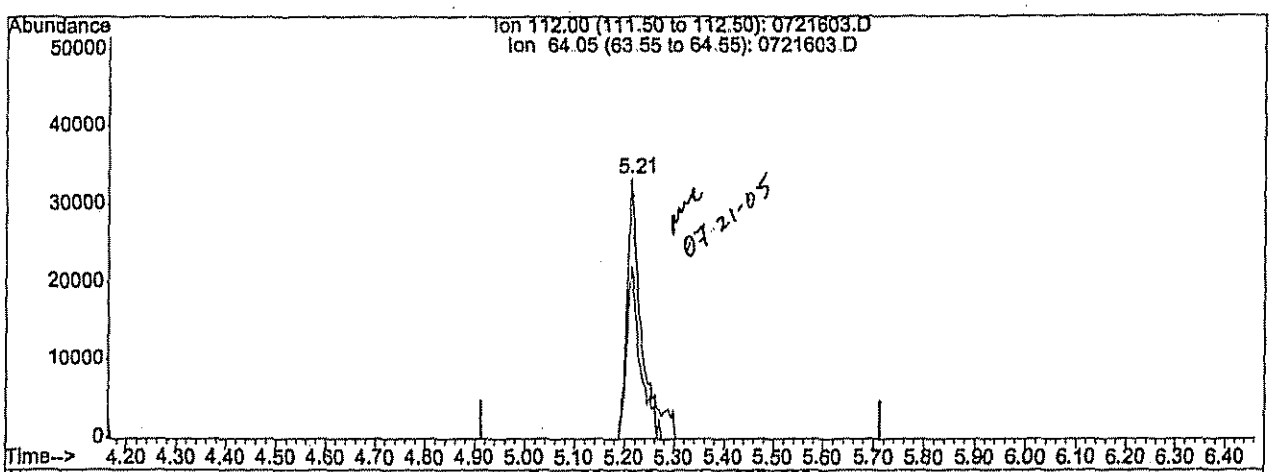
0721603.D 8270.M Thu Jul 21 11:15:59 2005 ENV

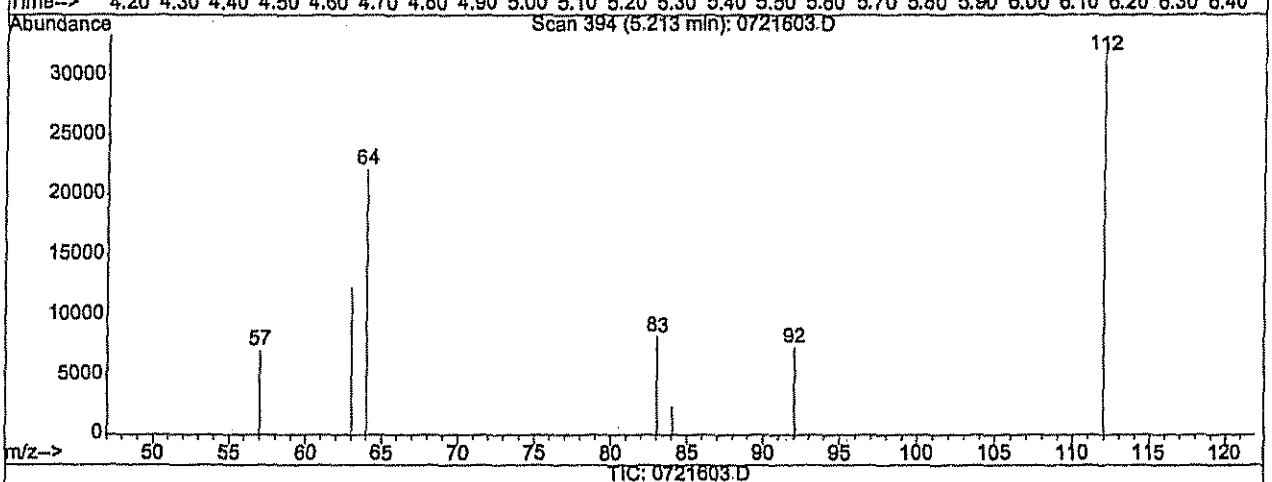
Quantitation Report (Qedit)

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

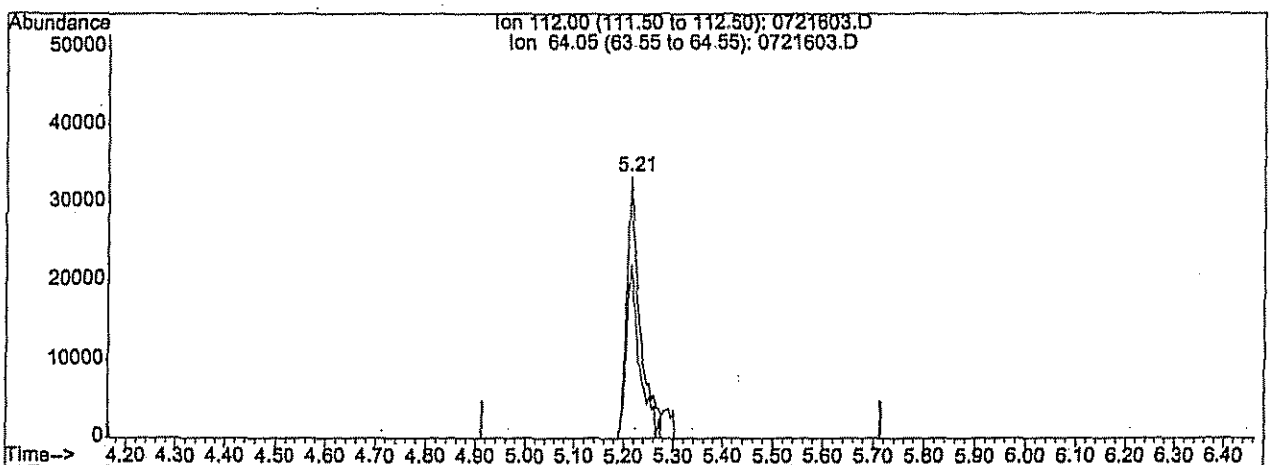
0721603.D 8270.M Thu Jul 21 11:16:21 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721603.D
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

WMC 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
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
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

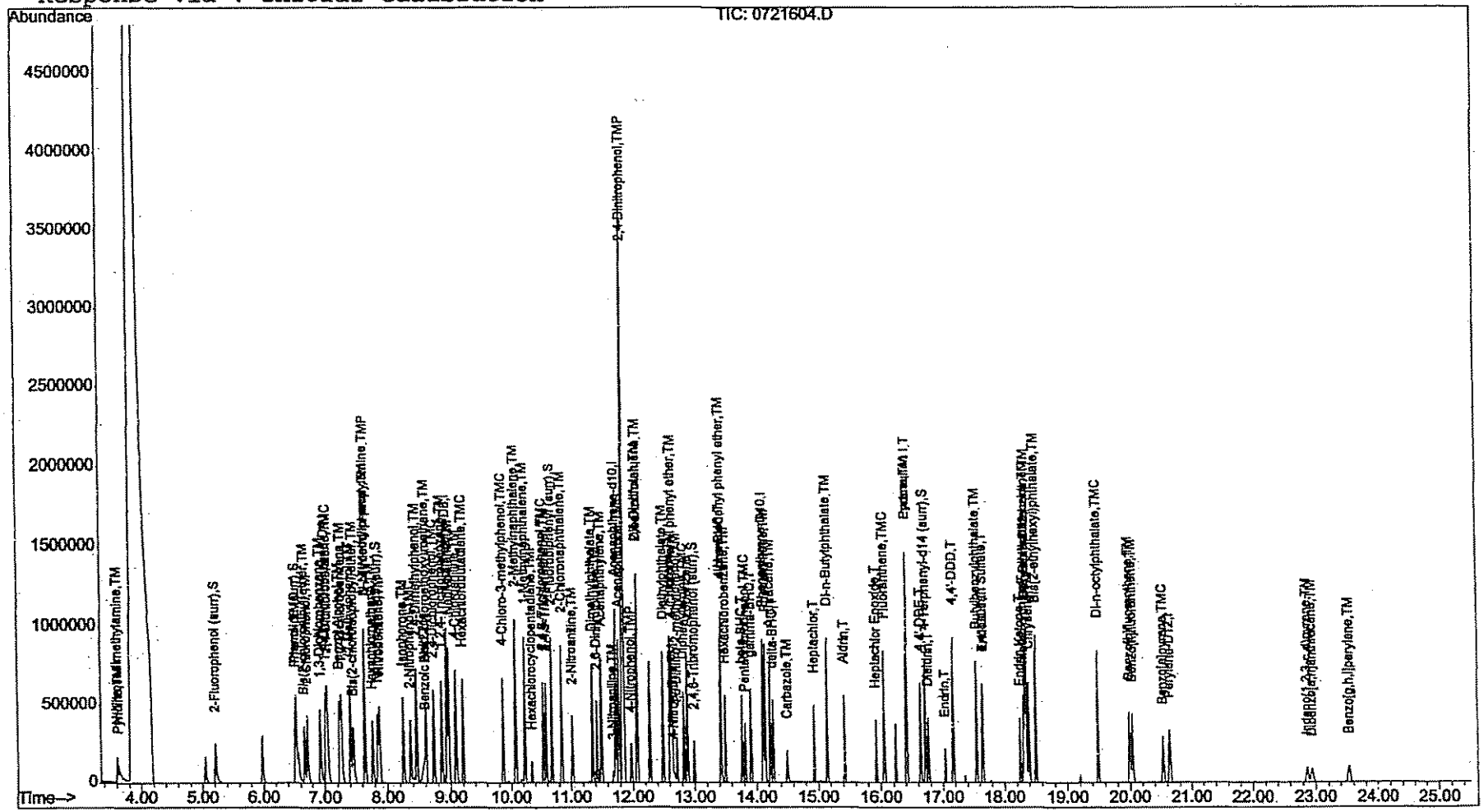
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	14.93	100	71282	3.73 ug/mL	96
72)	Aldrin	15.42	66	79432	3.78 ug/mL	94
73)	Heptachlor Epoxide	15.93	353	26939	4.04 ug/mL	95
74)	Endosulfan I	16.41	195	19790	3.85 ug/mL#	100
75)	4,4'-DDE	16.64	246	114389	3.92 ug/mL	95
76)	Dieldrin	16.76	79	96440	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

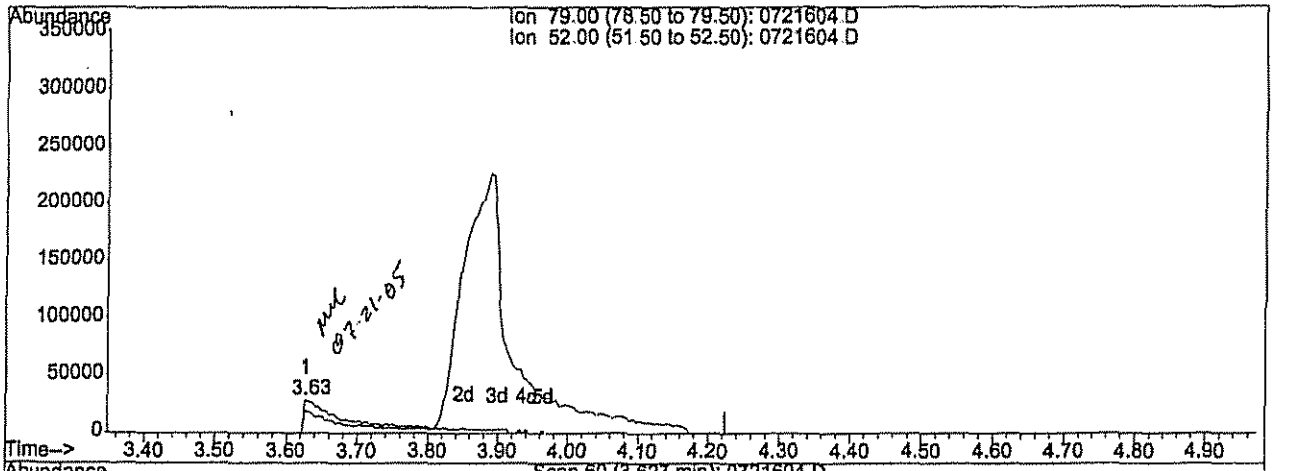
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

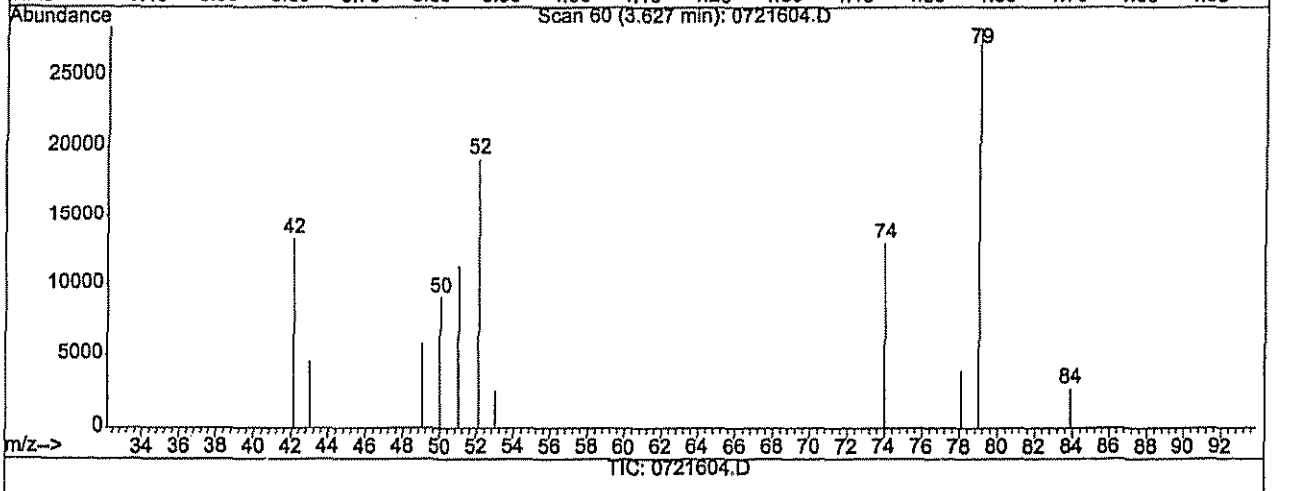


Quantitation Report (Qedit)

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

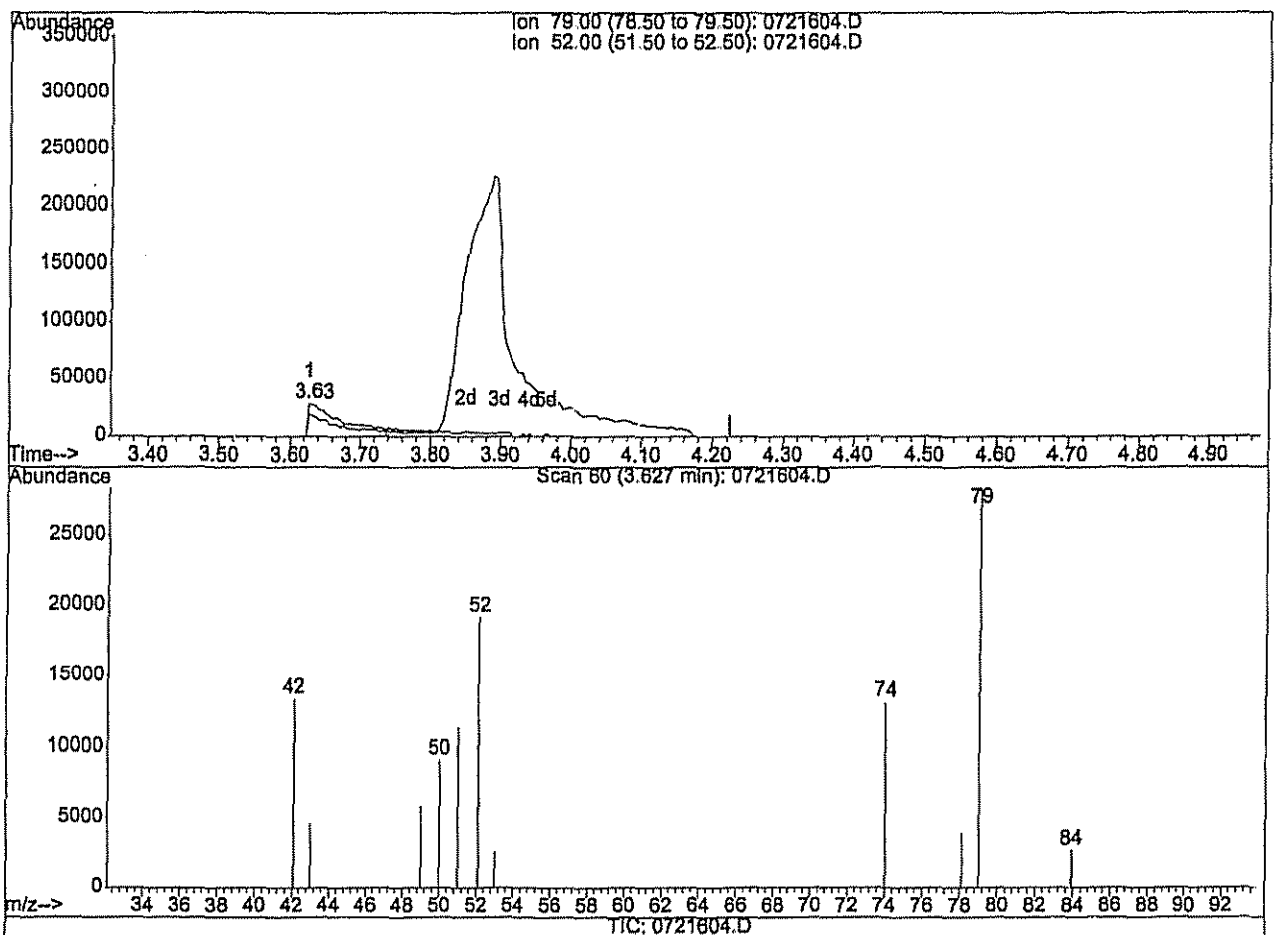
0721604.D 8270.M Thu Jul 21 11:18:02 2005 ENV

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\6072105\0721604.D
Acq On : 21 Jul 2005 10:25 am
Sample : SVCAL4
Misc :
MS Integration Params: LSCINT.P
Quant Time: Jul 21 11:17 2005

Vial: 4
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 11:17:27 2005
Response via : Multiple Level Calibration



(2) Pyridine (TM)

3.63min 3.97ug/mL

response 97610

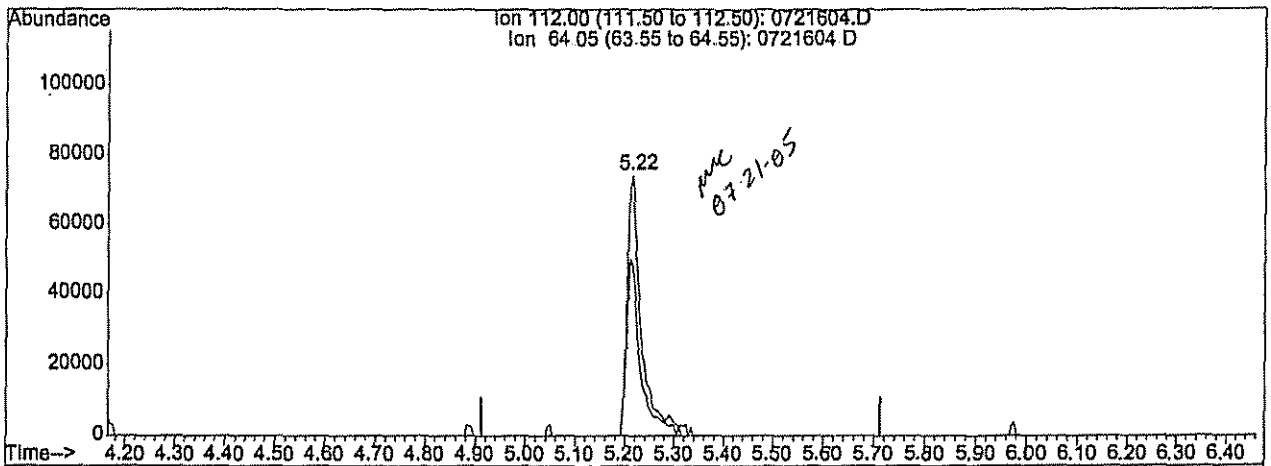
Ion	Exp%	Act%
79.00	100	100
52.00	10.30	52.29#
0.00	0.00	0.00
0.00	0.00	0.00

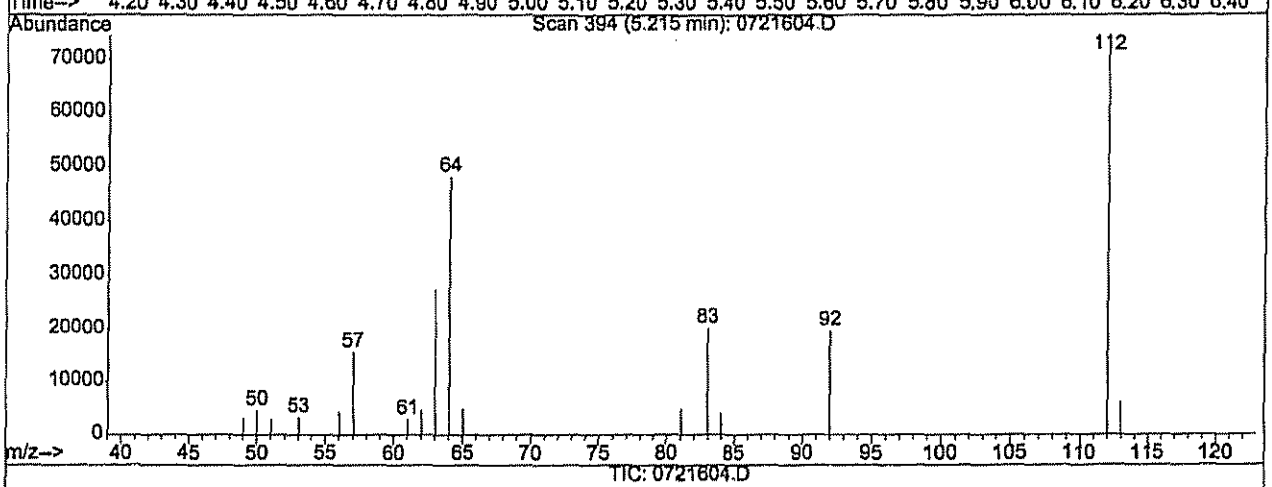
0721604.D 8270.M Thu Jul 21 11:17:57 2005 ENV

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

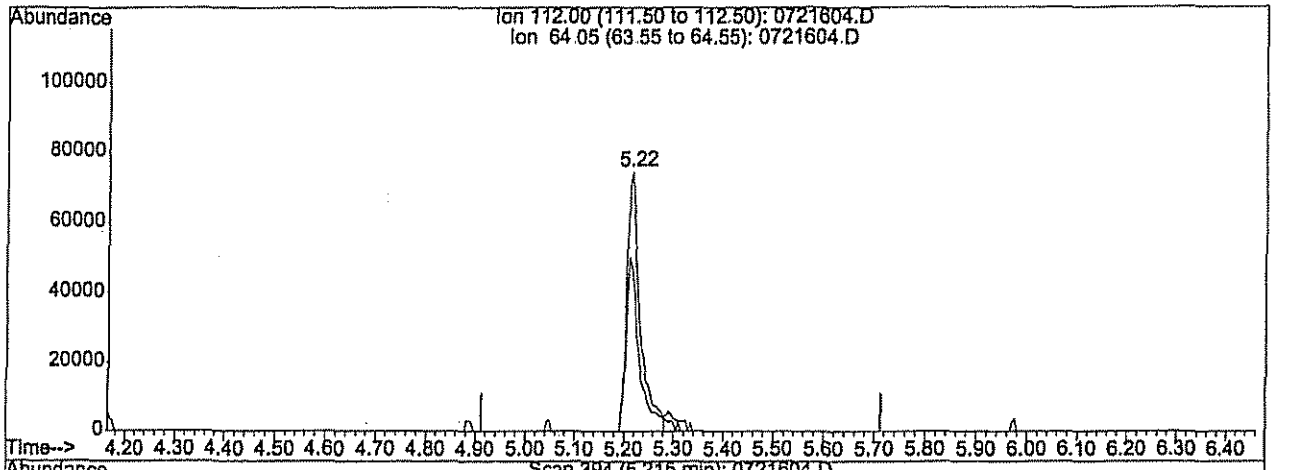
Ion	Exp%	Act%
112.00	100	100
64.05	61.30	64.80
0.00	0.00	0.00
0.00	0.00	0.00

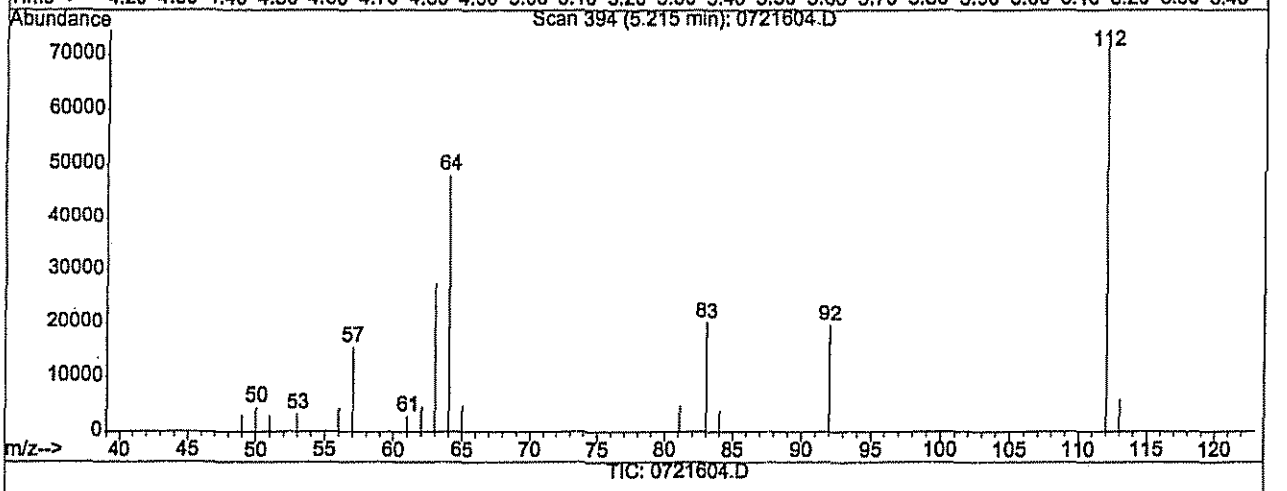
0721604.D 8270.M Thu Jul 21 11:18:16 2005 ENV

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
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: 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
0721605.D 8270.M Thu Jul 21 14:10:38 2005 ENV Page 2

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

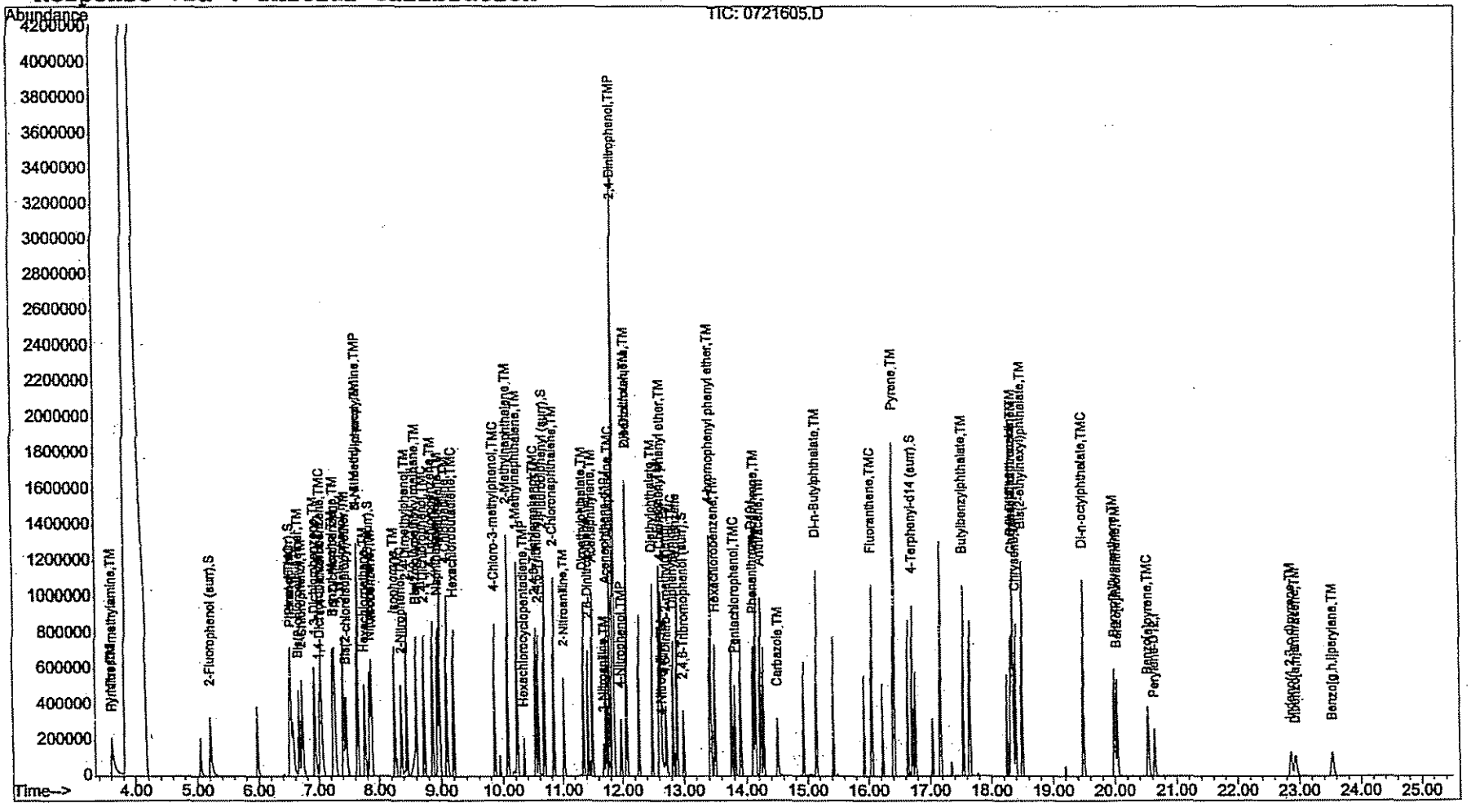
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	0.00	100	0	N.D. d	
72)	Aldrin	0.00	66	0	N.D. d	
73)	Heptachlor Epoxide	0.00	353	0	N.D. d	
74)	Endosulfan I	0.00	195	0	N.D. d	
75)	4,4'-DDE	0.00	246	0	N.D. d	
76)	Dieldrin	0.00	79	0	N.D. d	
77)	Endrin	0.00	263	0	N.D. d	
78)	Endosulfan II	0.00	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

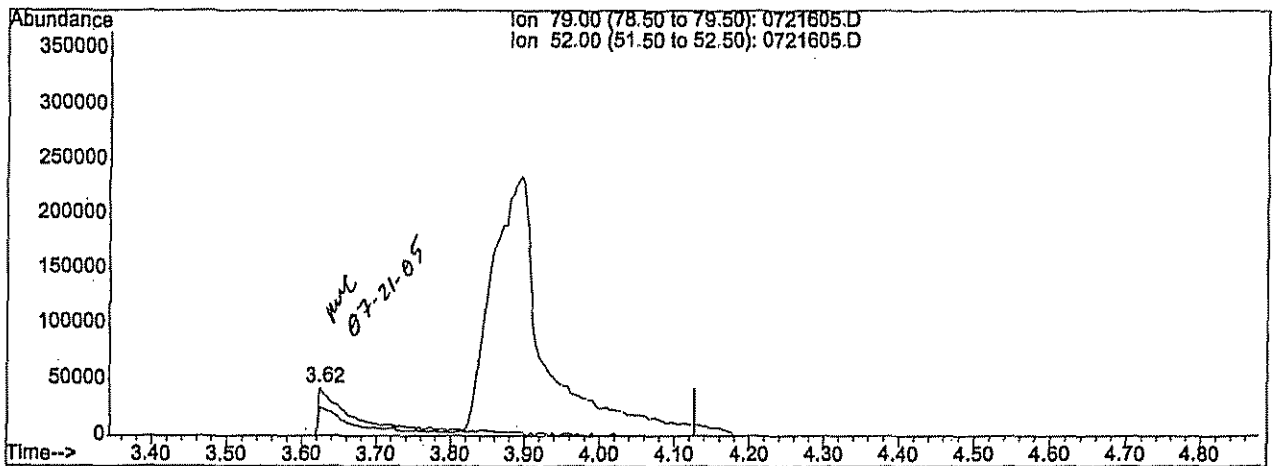
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

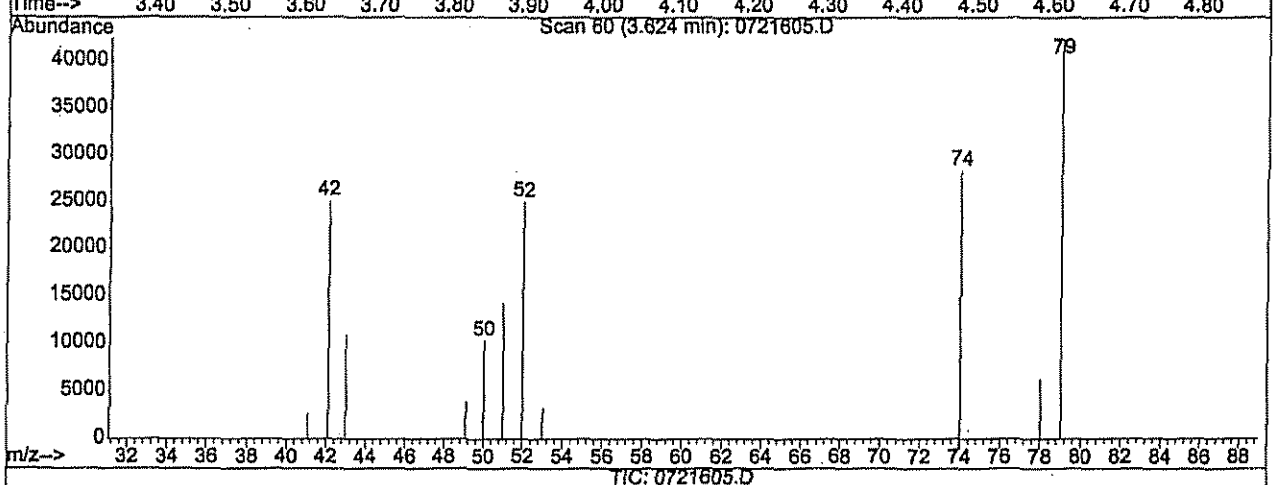


Quantitation Report (Qedit)

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

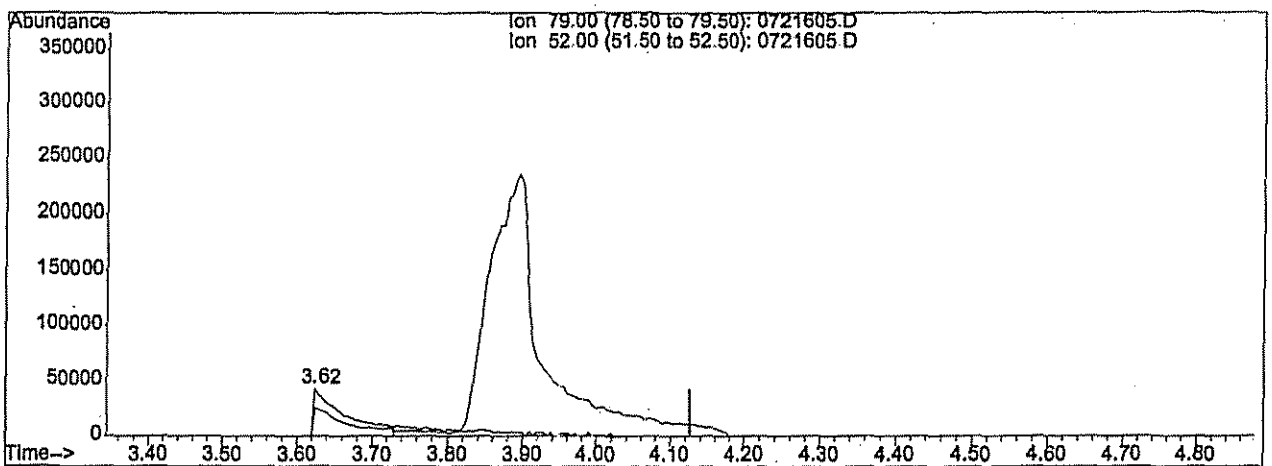
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	35.36
0.00	0.00	0.00
0.00	0.00	0.00

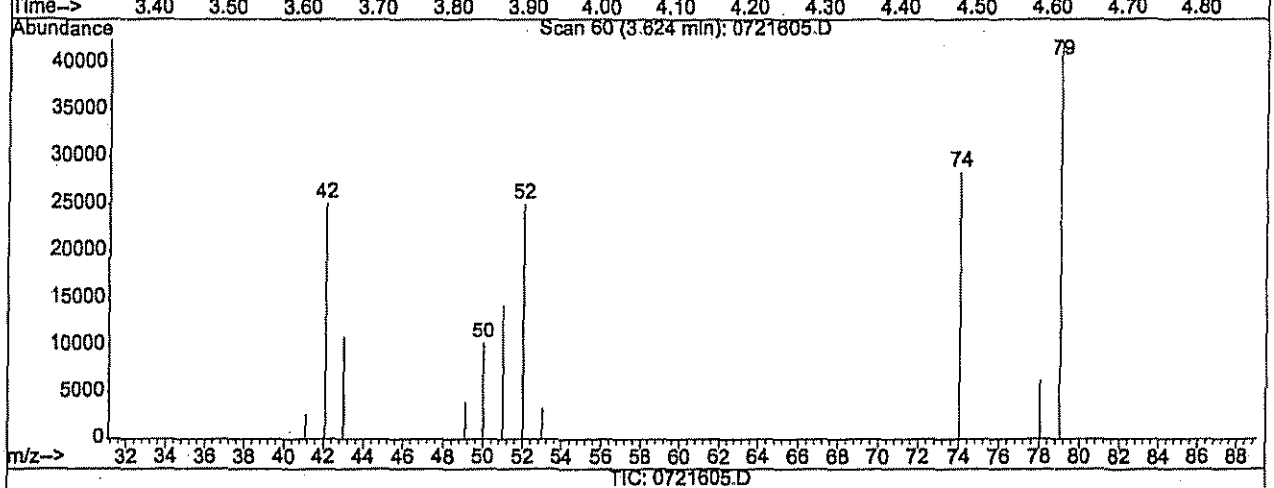
0721605.D 8270DXN.M Thu Jul 21 13:45:54 2005 ENV

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

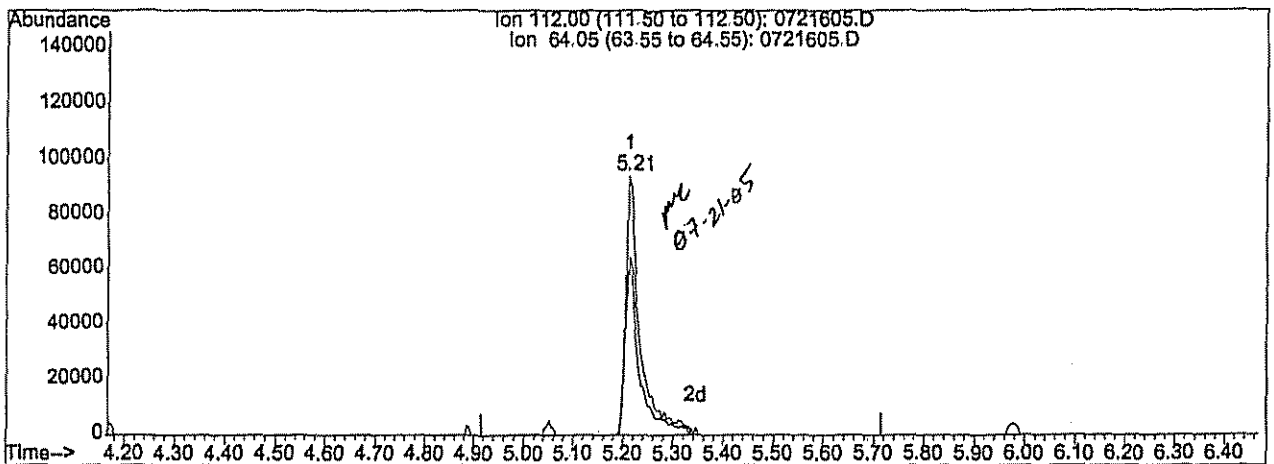
Ion	Exp%	Act%
79.00	100	100
52.00	35.70	51.06#
0.00	0.00	0.00
0.00	0.00	0.00

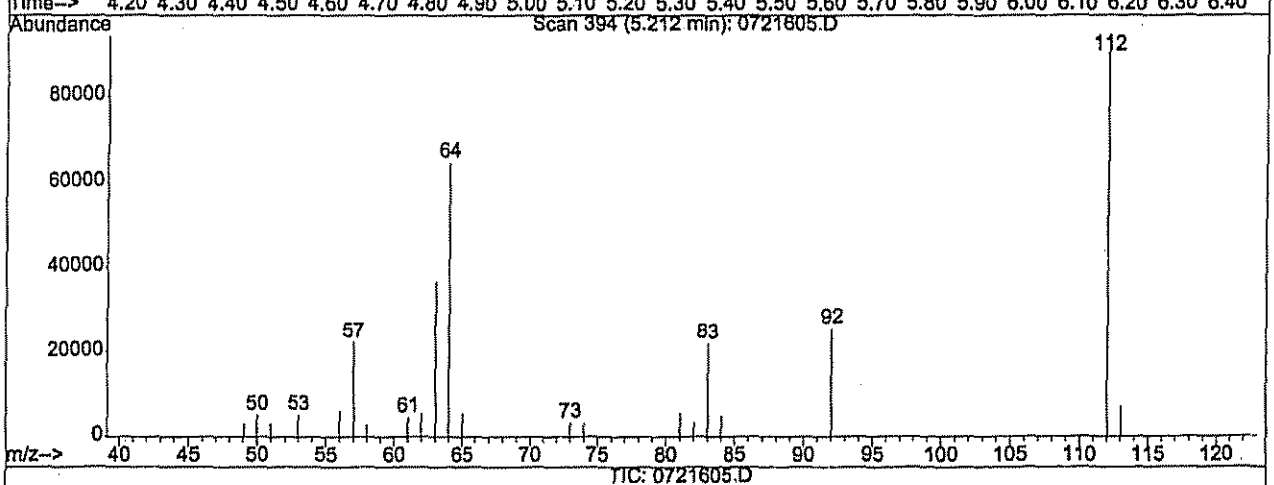
0721605.D 8270DXN.M Thu Jul 21 13:45:48 2005 ENV

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





TIC: 0721605.D

(16) 2-Fluorophenol (surr) (S)

5.21min 6.14ug/mL m

response 189995

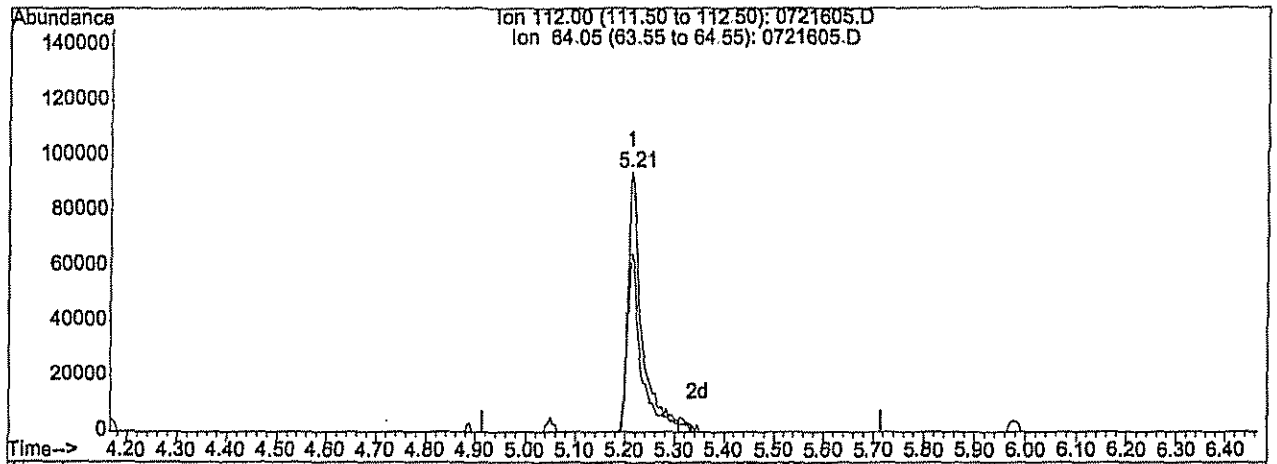
Ion	Exp%	Act%
112.00	100	100
64.05	64.80	66.94
0.00	0.00	0.00
0.00	0.00	0.00

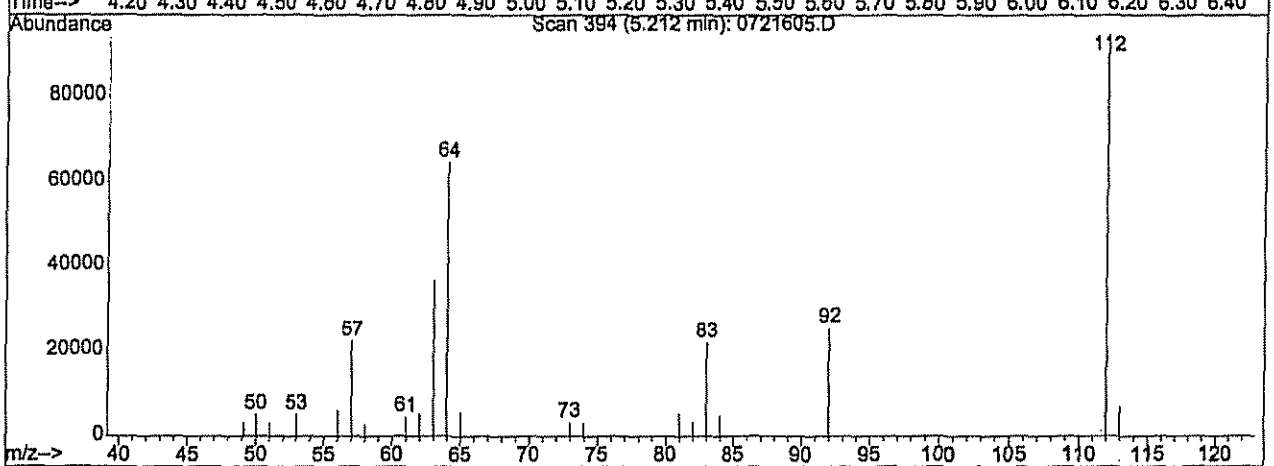
0721605.D 8270DXN.M Thu Jul 21 13:46:12 2005 ENV

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
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

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

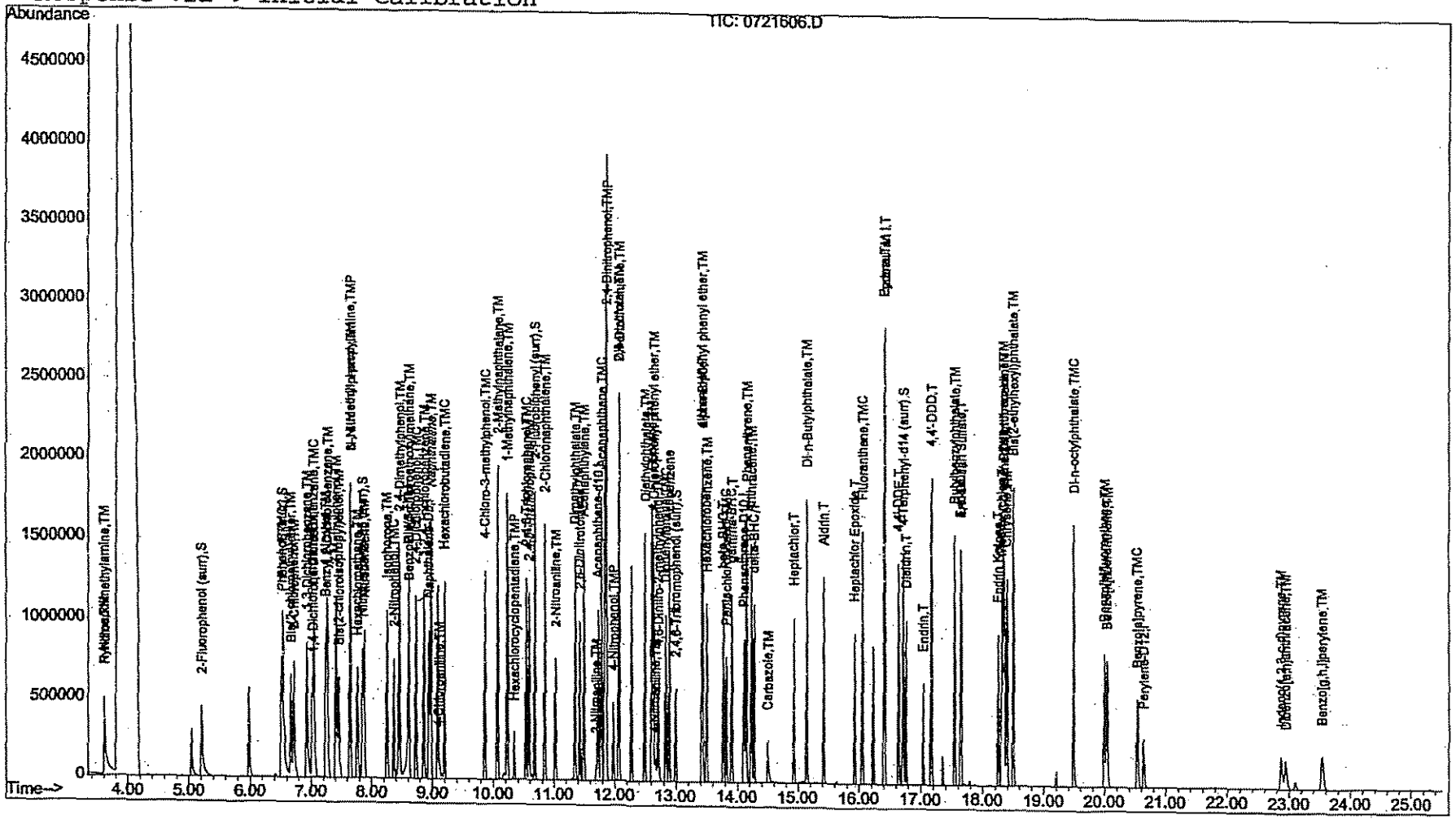
Quantitation Report

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

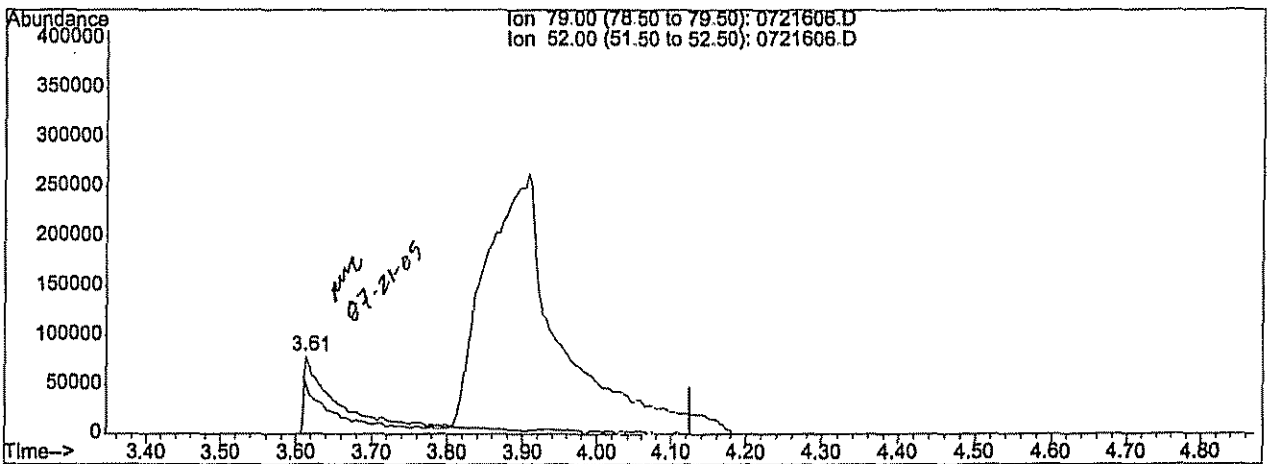
PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

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

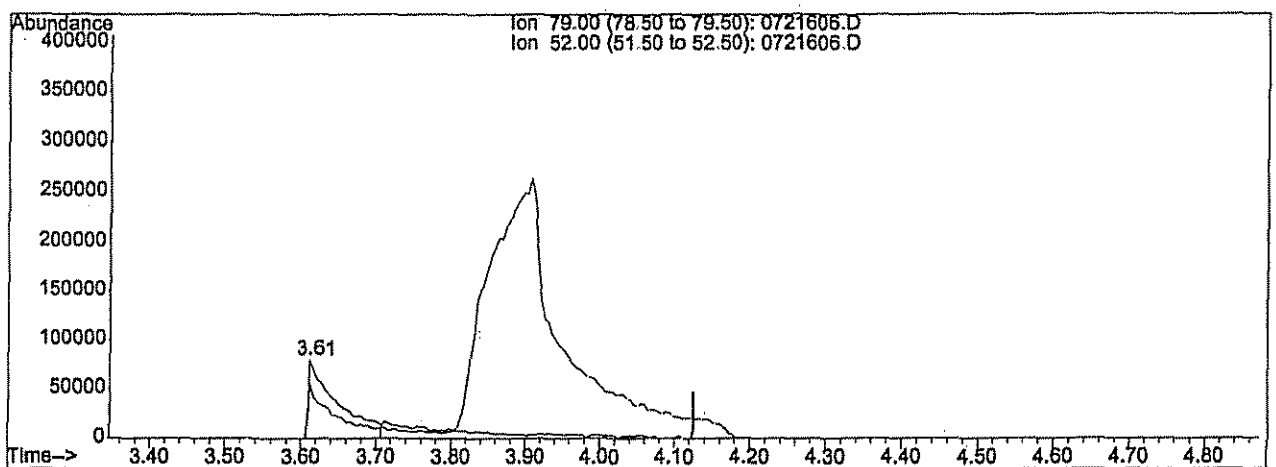
Ion	Exp%	Act%
79.00	100	100
52.00	35.40	41.35
0.00	0.00	0.00
0.00	0.00	0.00

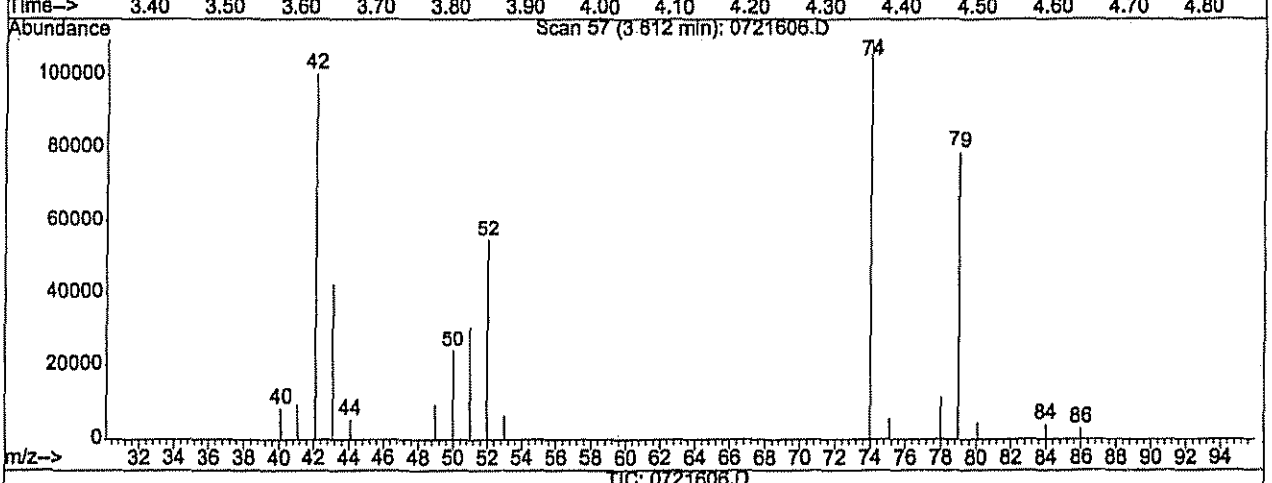
0721606.D 8270.M Thu Jul 21 13:54:58 2005 ENV

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





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

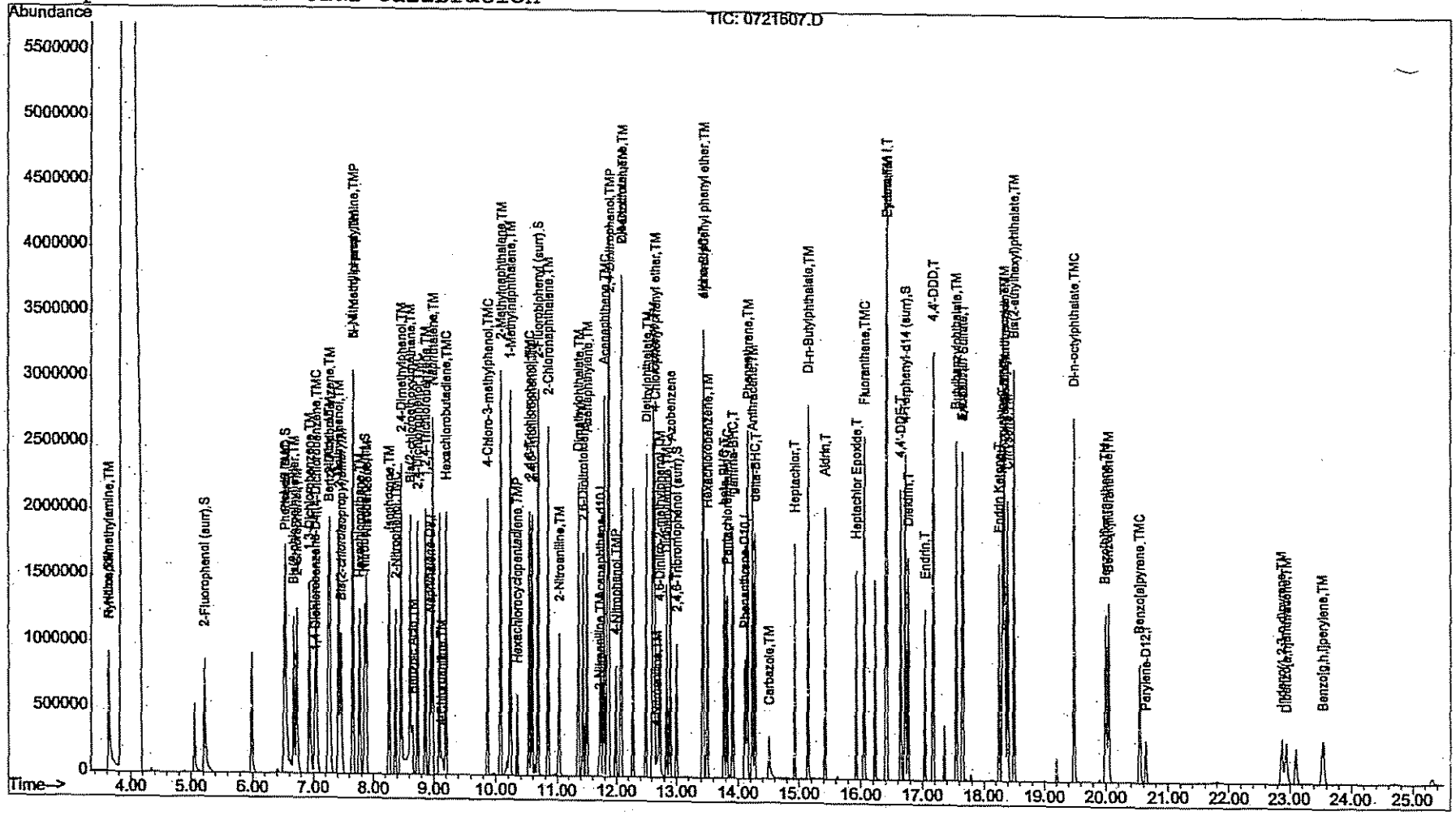
Quantitation Report

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

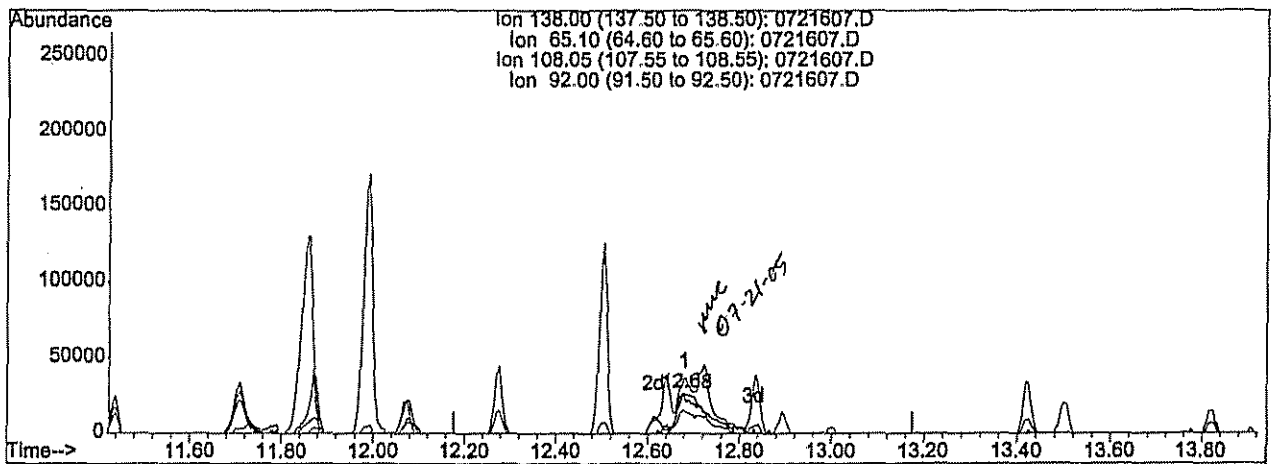
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

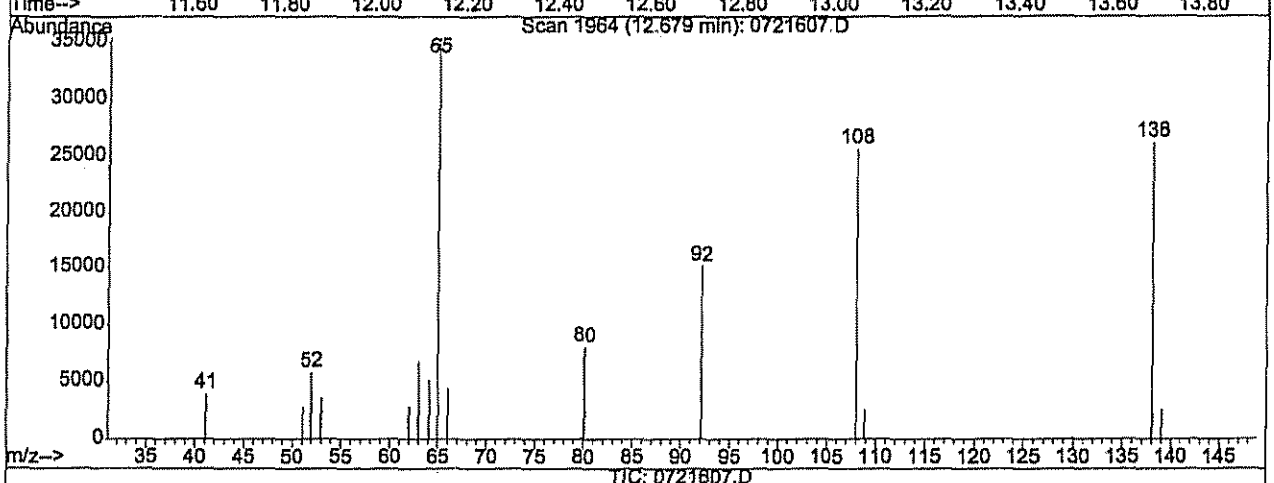


Quantitation Report (Qedit)

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

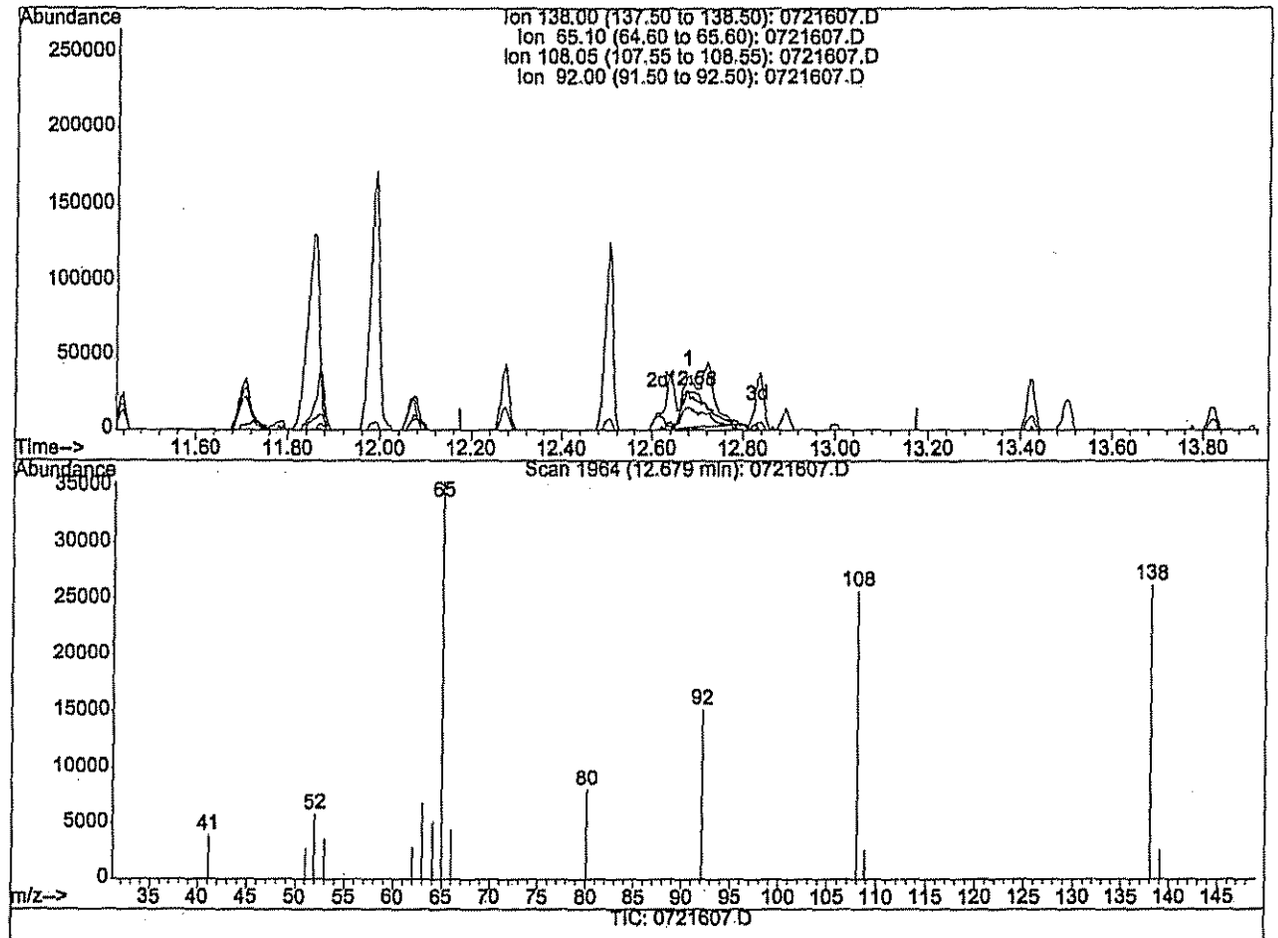
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	134.67
108.05	86.20	97.81
92.00	49.30	57.87

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

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
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
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

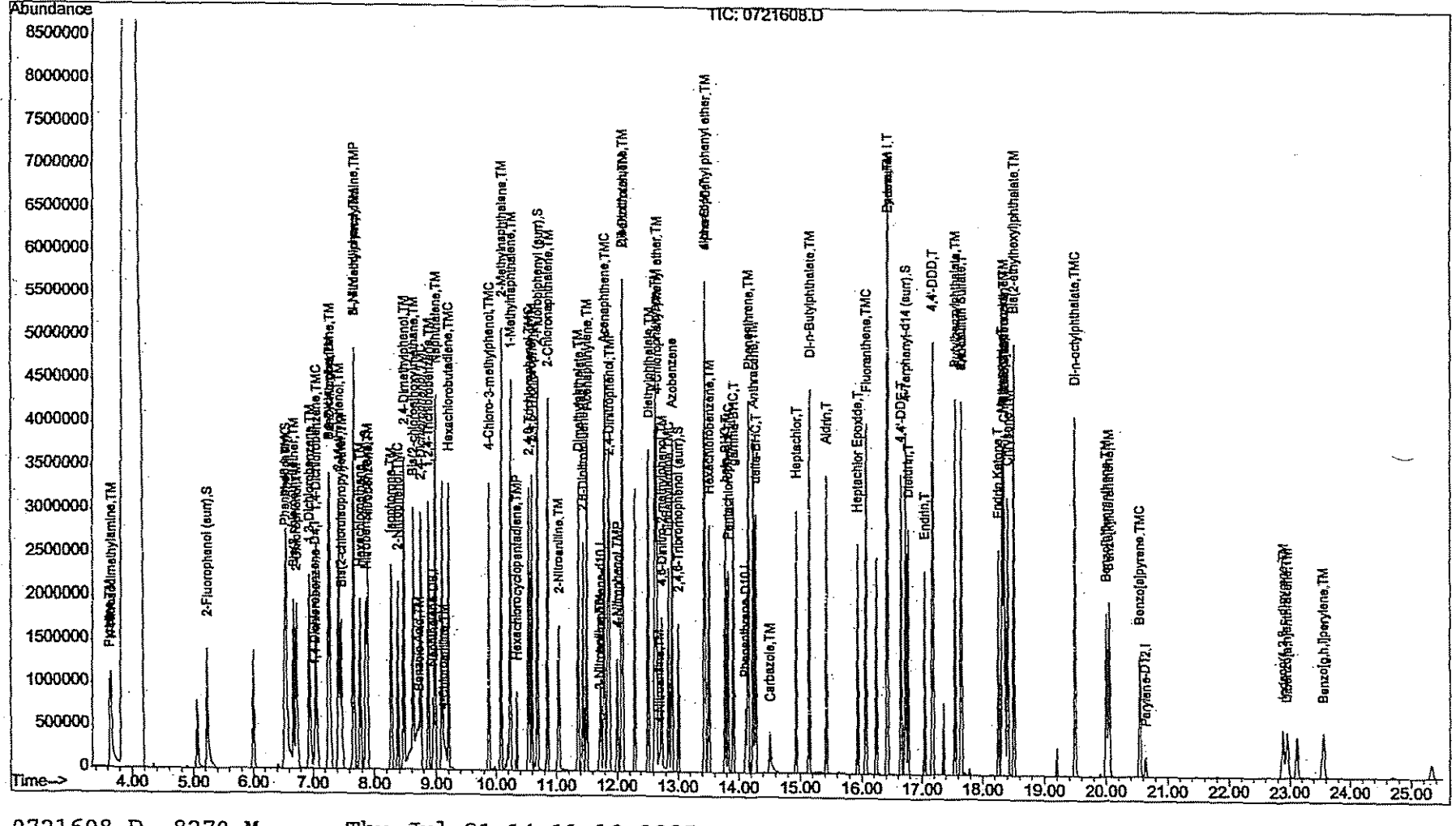
Quantitation Report

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

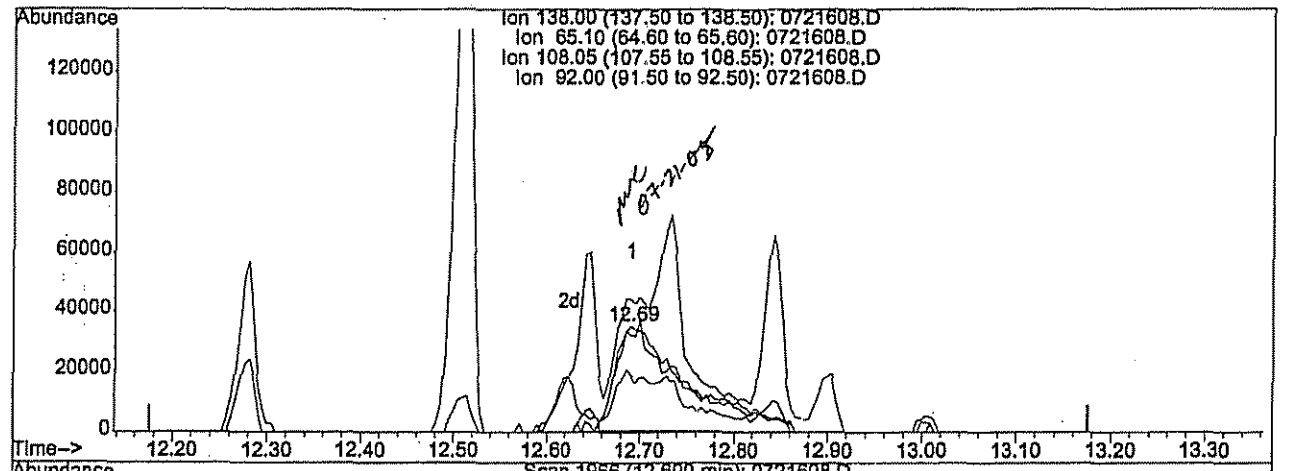
Method : C:\HPCHEM\1\DATA\6072105\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Jul 21 14:08:56 2005
Response via : Initial Calibration

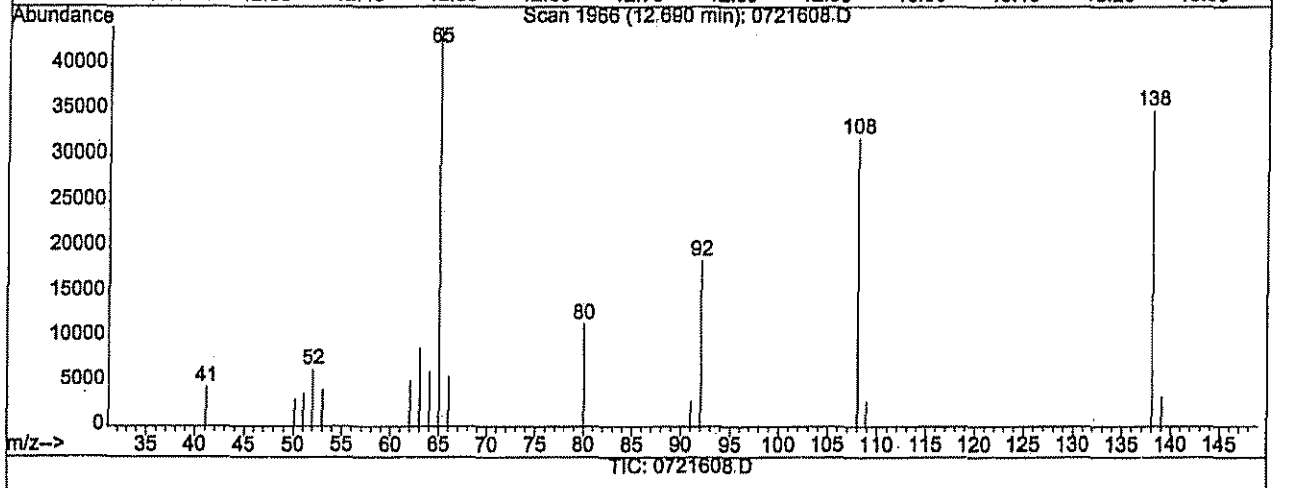


Quantitation Report (Qedit)

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





(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

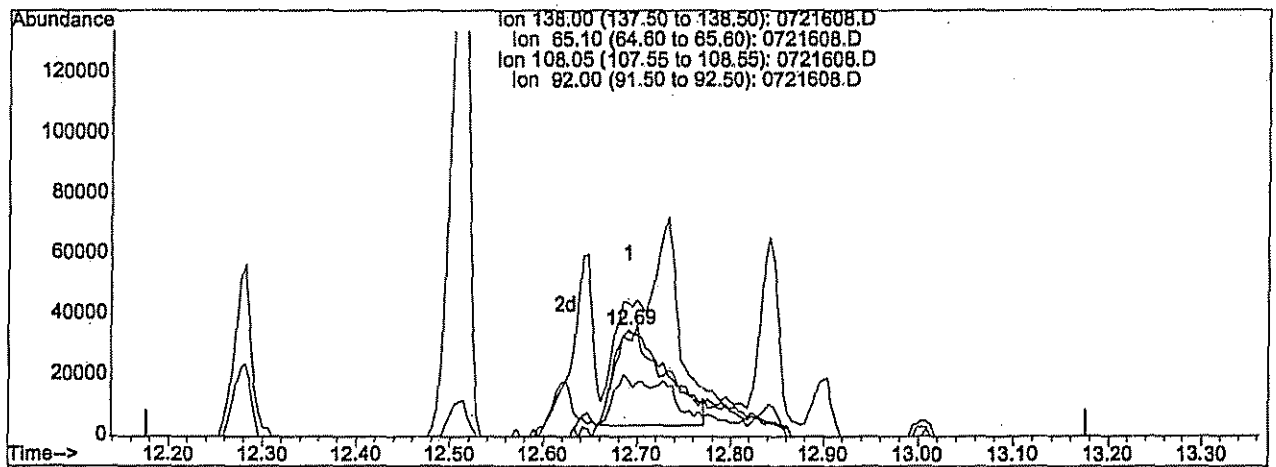
0721608.D 8270.M Thu Jul 21 14:01:18 2005 ENV

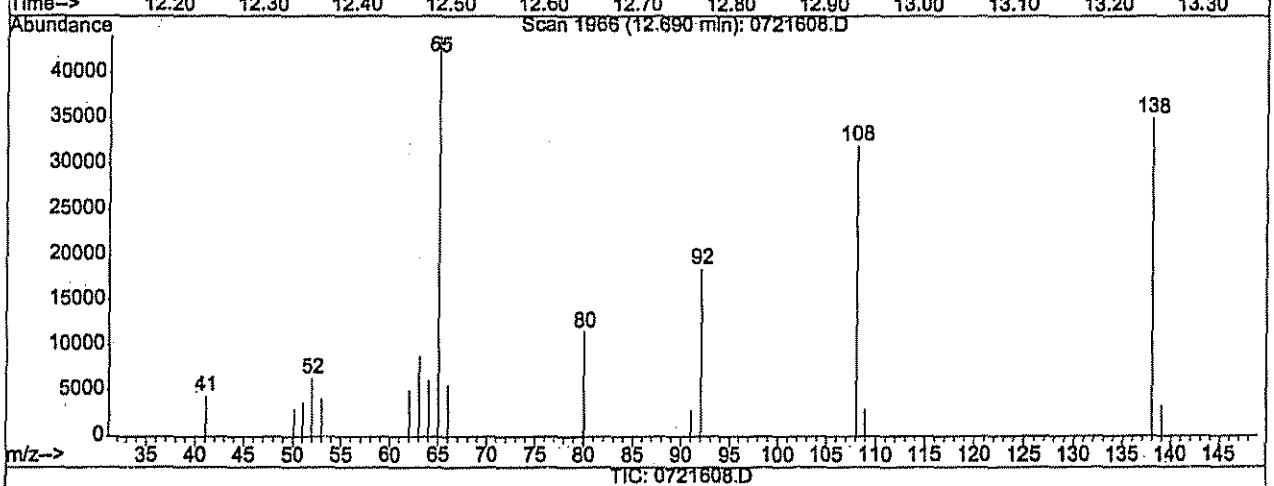
Quantitation Report (Qedit)

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

MRC 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

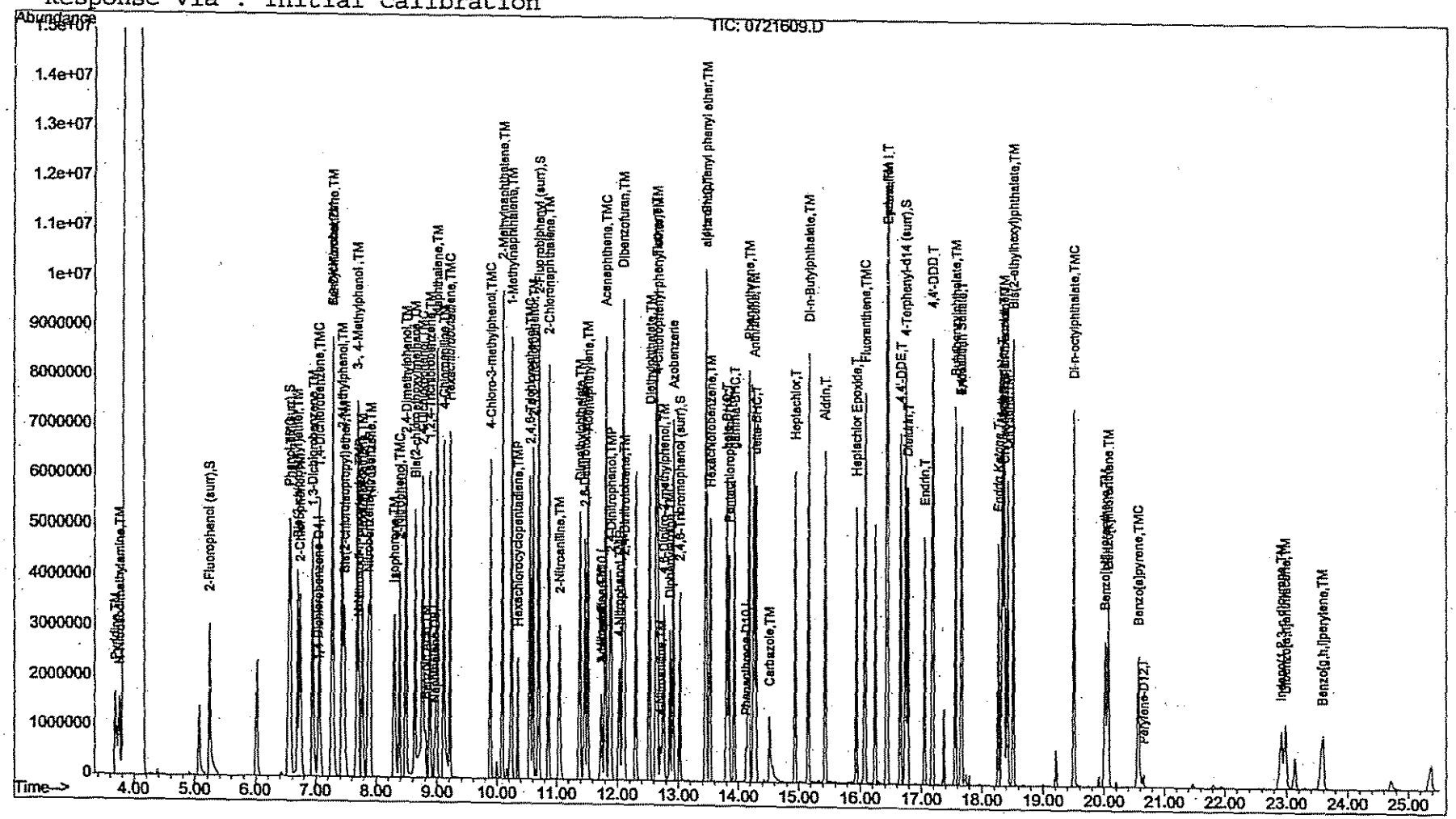
Quantitation Report

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

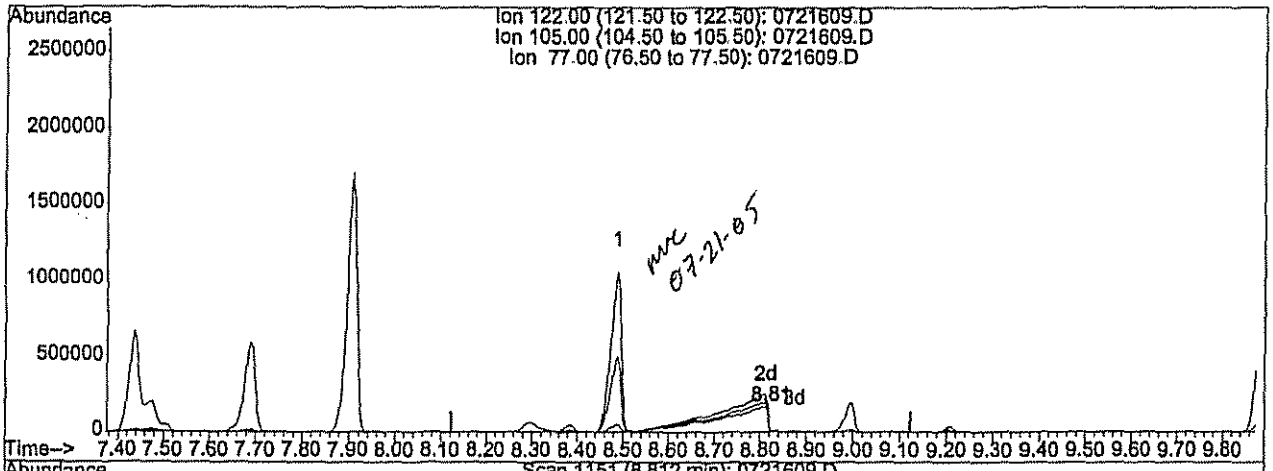


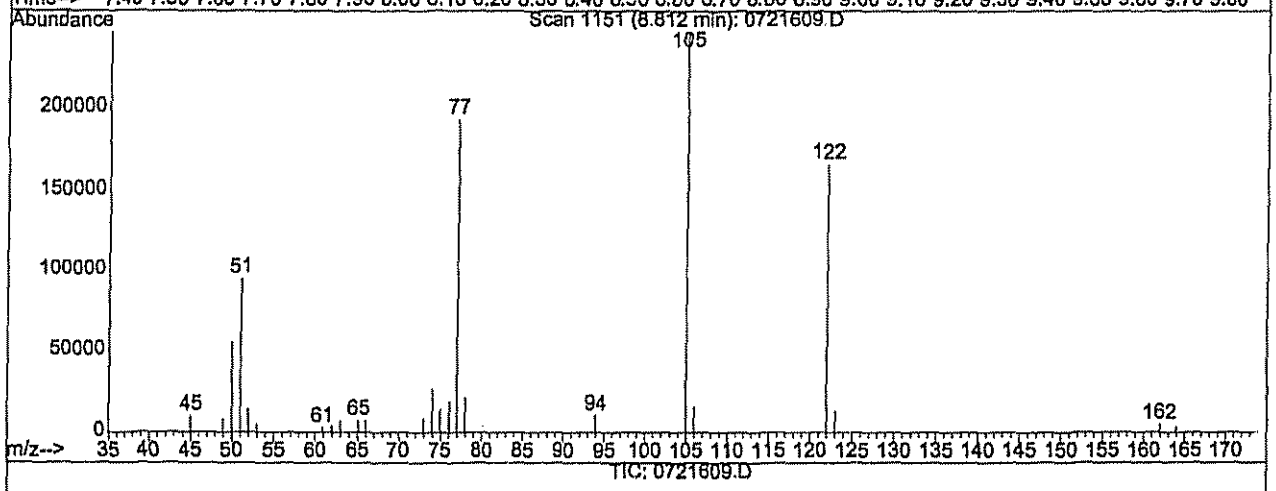
0721609.D 8270.M Thu Jul 21 14:11:30 2005 ENV

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





TIC: 0721609.D

(23) Benzoic Acid (TM)

8.81min 59.39ug/mL m

response 1289762

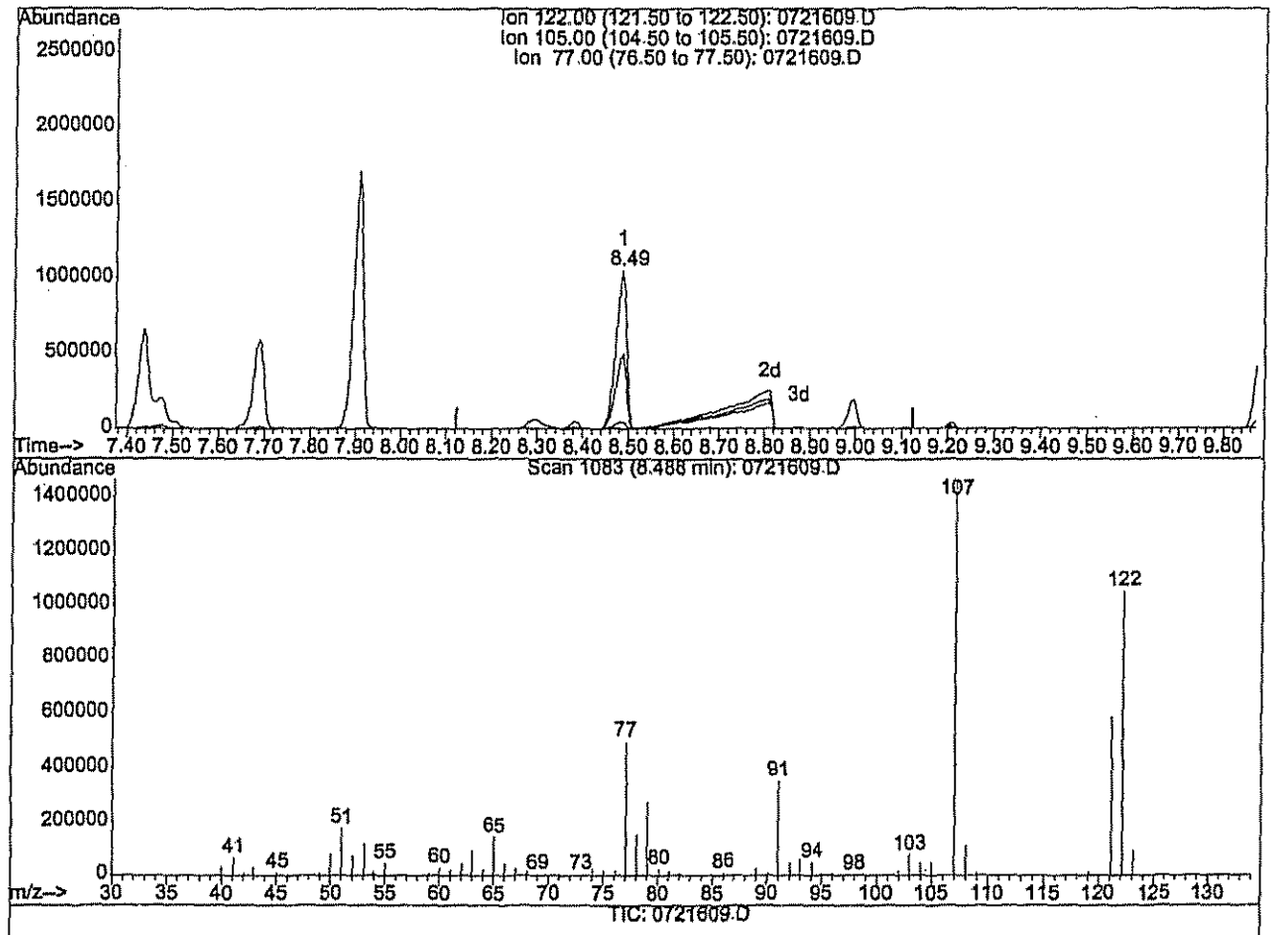
Ion	Exp%	Act%
122.00	100	100
105.00	143.90	5.75#
77.00	115.50	62.60#
0.00	0.00	0.00

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

mc 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

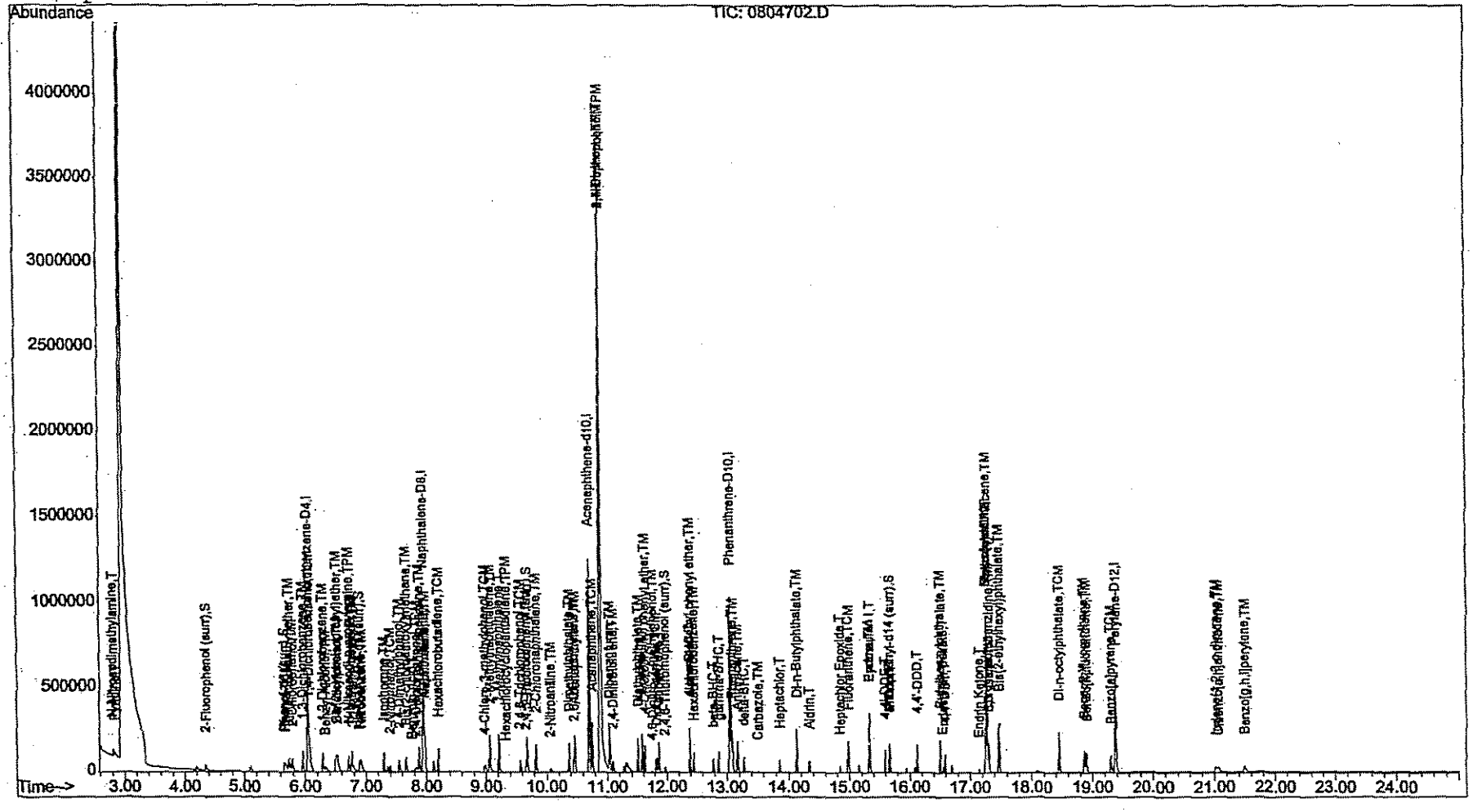
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	21257	1.15 ug/mL	91
72)	Aldrin	14.34	66	20755	1.13 ug/mL	91
73)	Heptachlor Epoxide	14.85	353	7263	0.99 ug/mL	100
74)	Endosulfan I	15.33	195	4158	0.98 ug/mL#	43
75)	4,4'-DDE	15.59	246	29700	1.07 ug/mL	100
76)	Dieldrin	15.67	79	27651	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



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

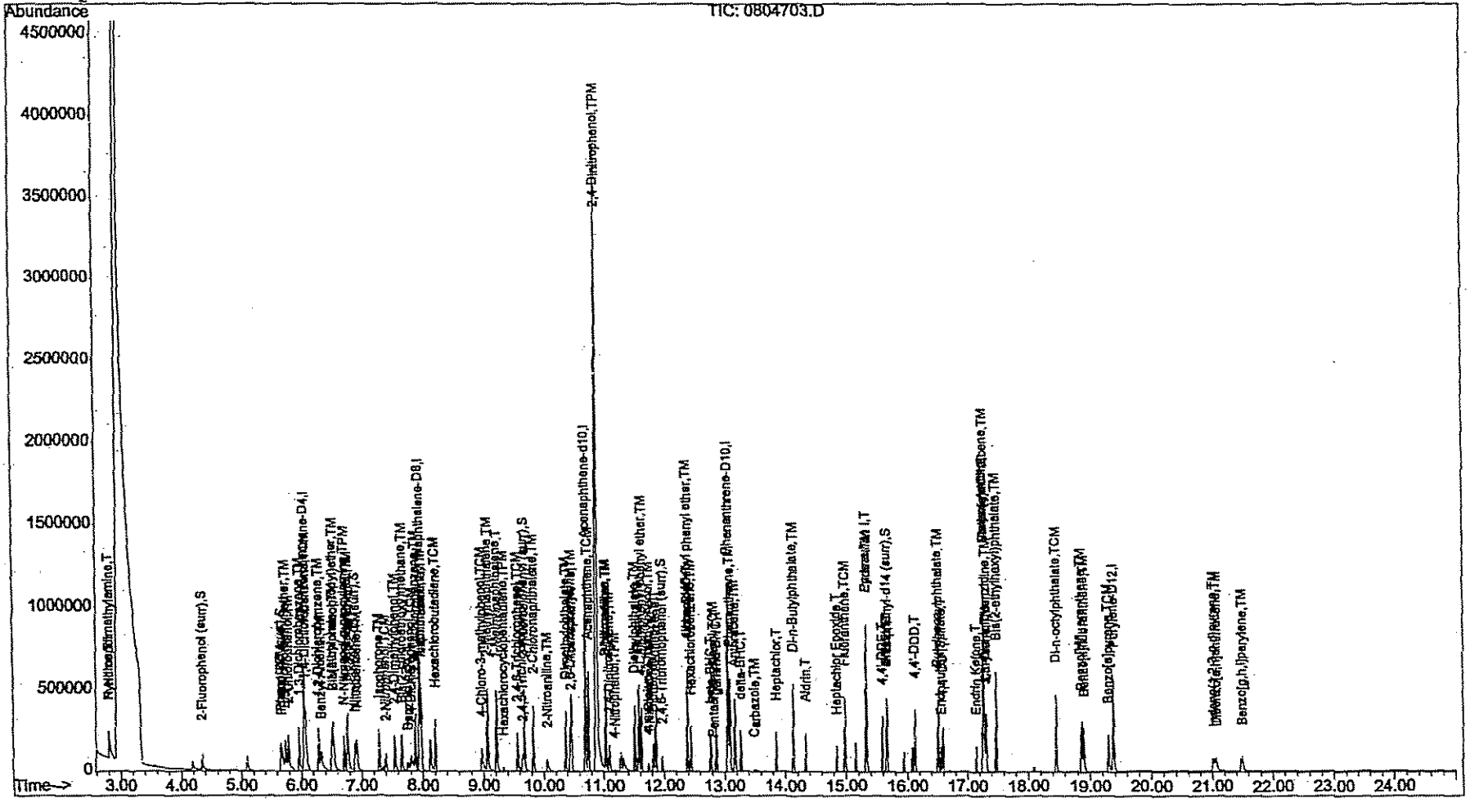
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	43579	2.28 ug/mL	95
72)	Aldrin	14.34	66	42113	2.25 ug/mL	94
73)	Heptachlor Epoxide	14.85	353	16074	2.11 ug/mL	96
74)	Endosulfan I	15.33	195	9239	2.16 ug/mL#	100
75)	4,4'-DDE	15.59	246	60564	2.12 ug/mL	100
76)	Dieldrin	15.67	79	55572	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



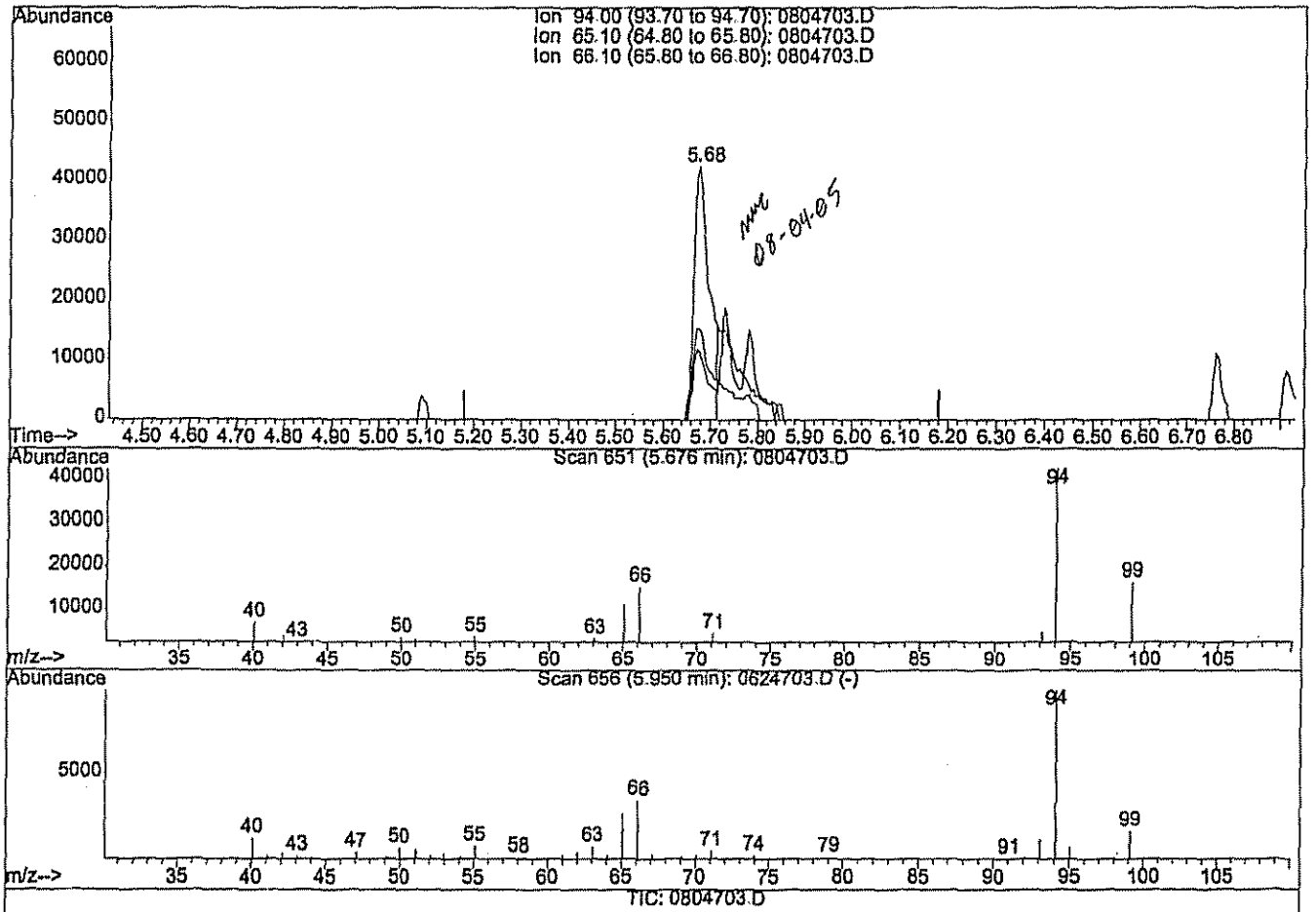
N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

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

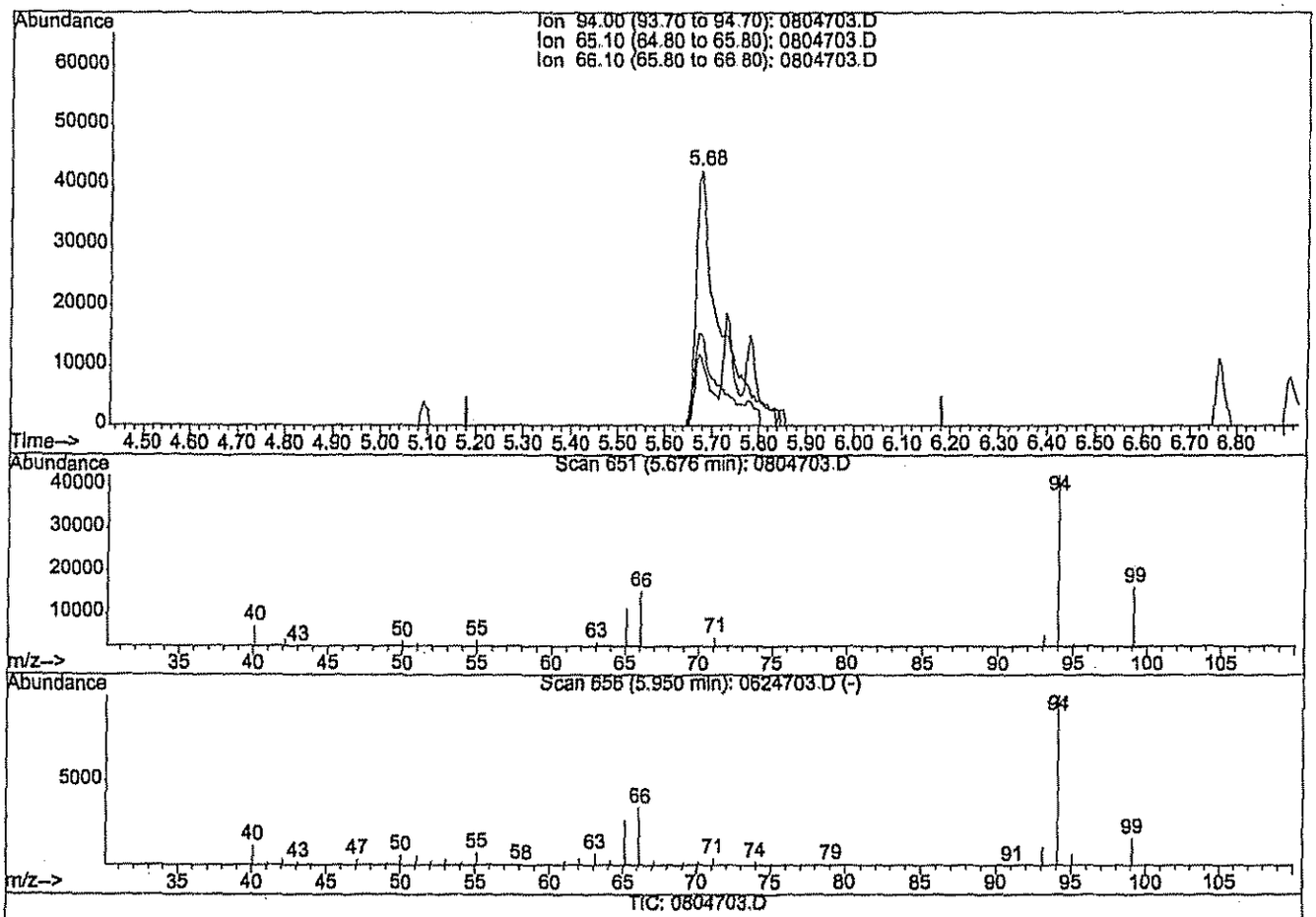
Ion	Exp%	Act%
94.00	100	100
65.10	29.90	26.42
66.10	40.60	35.91
0.00	0.00	0.00

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

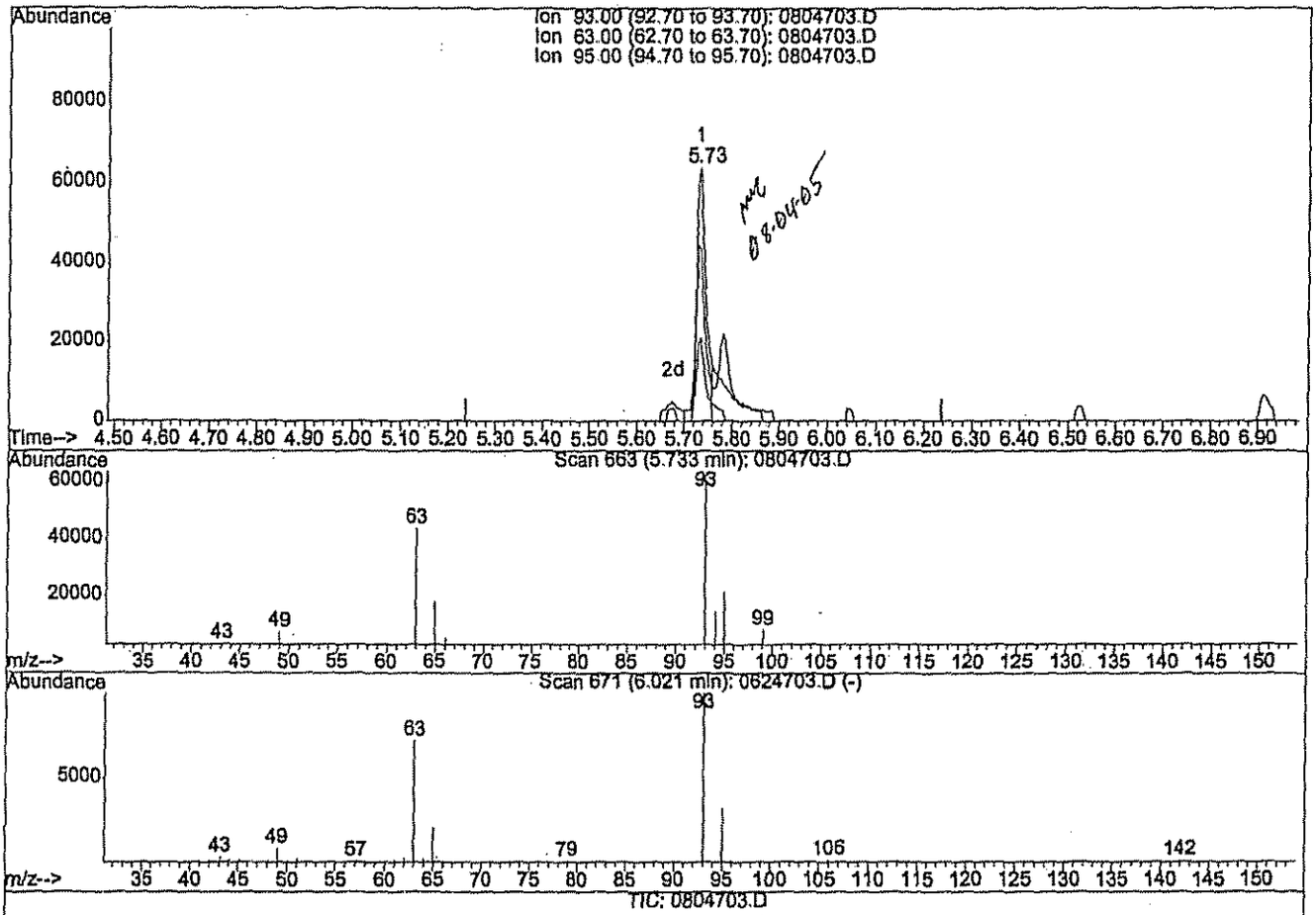
Ion	Exp%	Act%
94.00	100	100
65.10	29.90	26.42
66.10	40.60	35.91
0.00	0.00	0.00

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

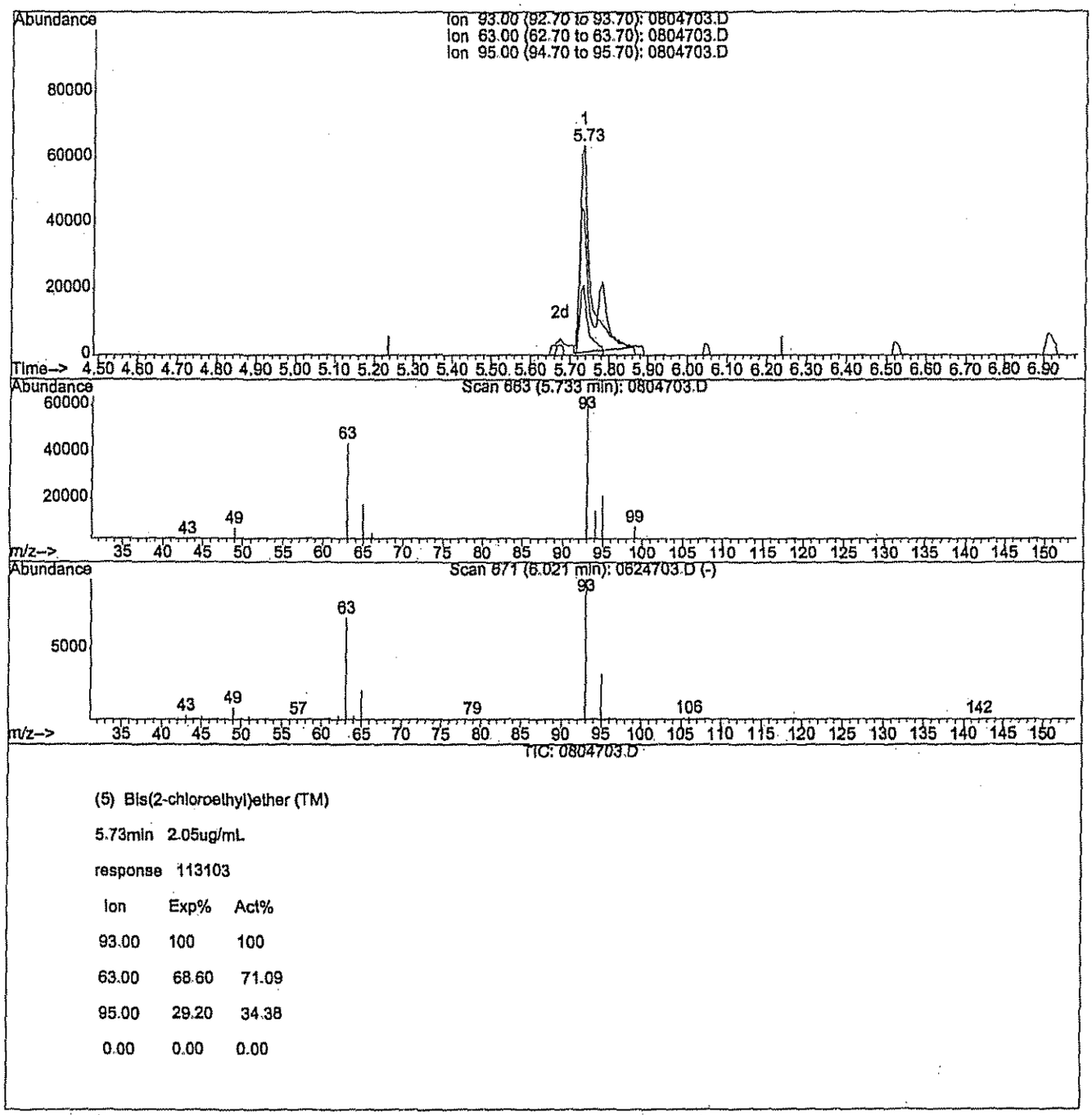
Ion	Exp%	Act%
93.00	100	100
63.00	68.60	68.34
95.00	29.20	33.05
0.00	0.00	0.00

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

MRC 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

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

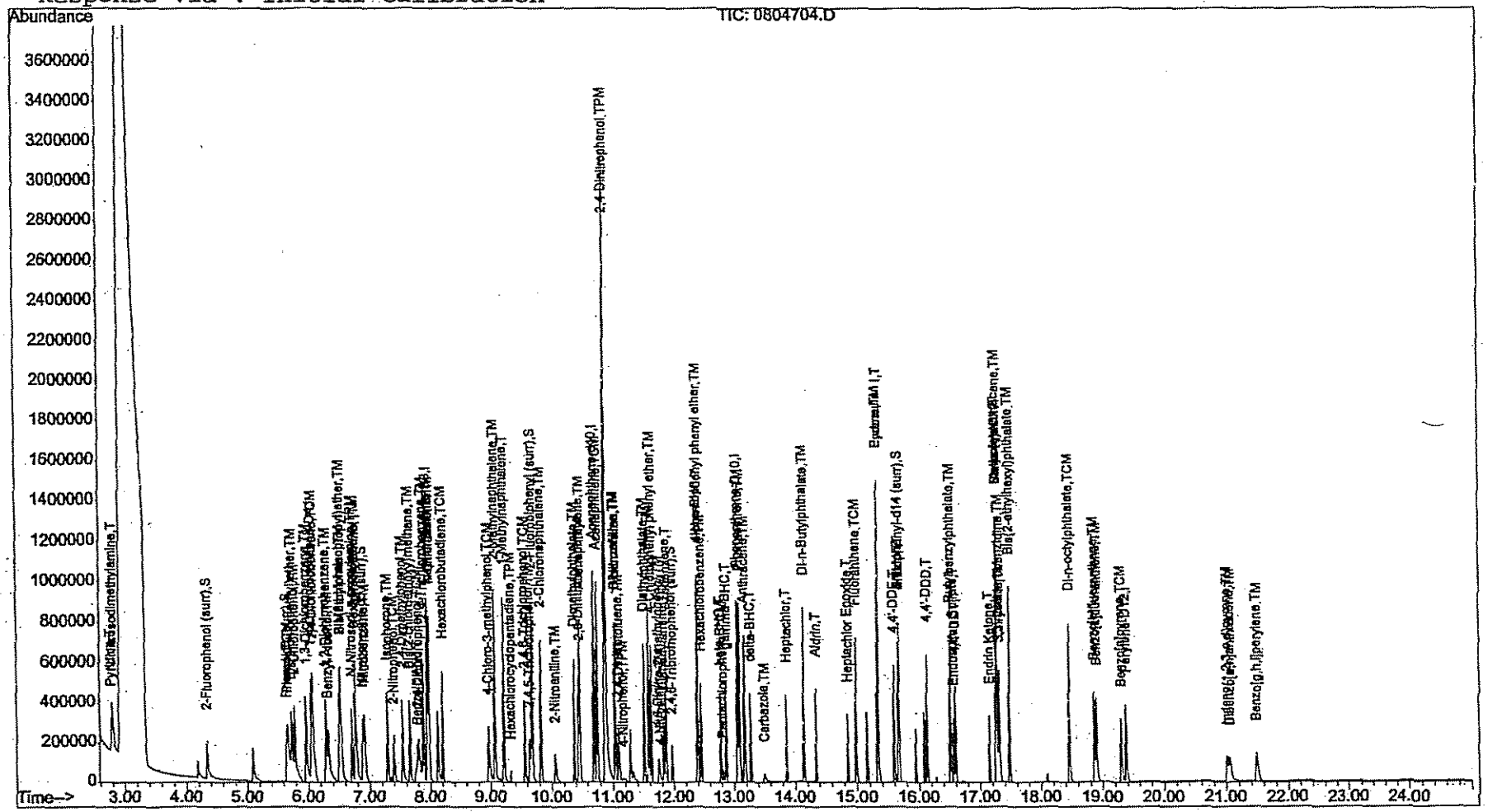
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	68996	4.47 ug/mL	99
72)	Aldrin	14.34	66	67273	4.48 ug/mL	98
73)	Heptachlor Epoxide	14.85	353	26987	4.37 ug/mL	96
74)	Endosulfan I	15.33	195	16323	4.80 ug/mL#	82
75)	4,4'-DDE	15.59	246	98004	4.28 ug/mL	99
76)	Dieldrin	15.67	79	87600	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

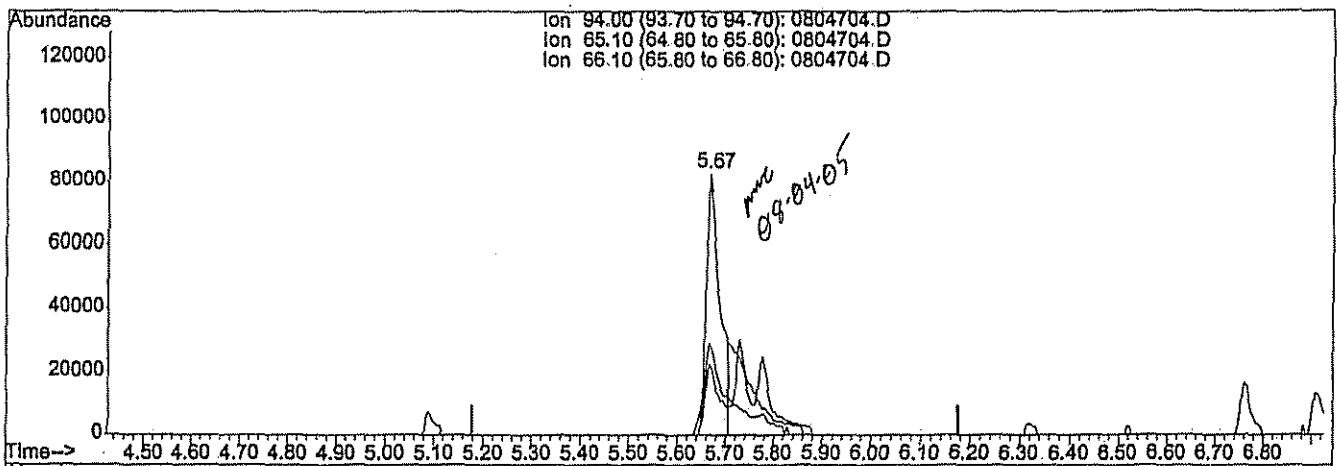
Method : C:\MSDCHEM\1\DATA\7080405\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



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

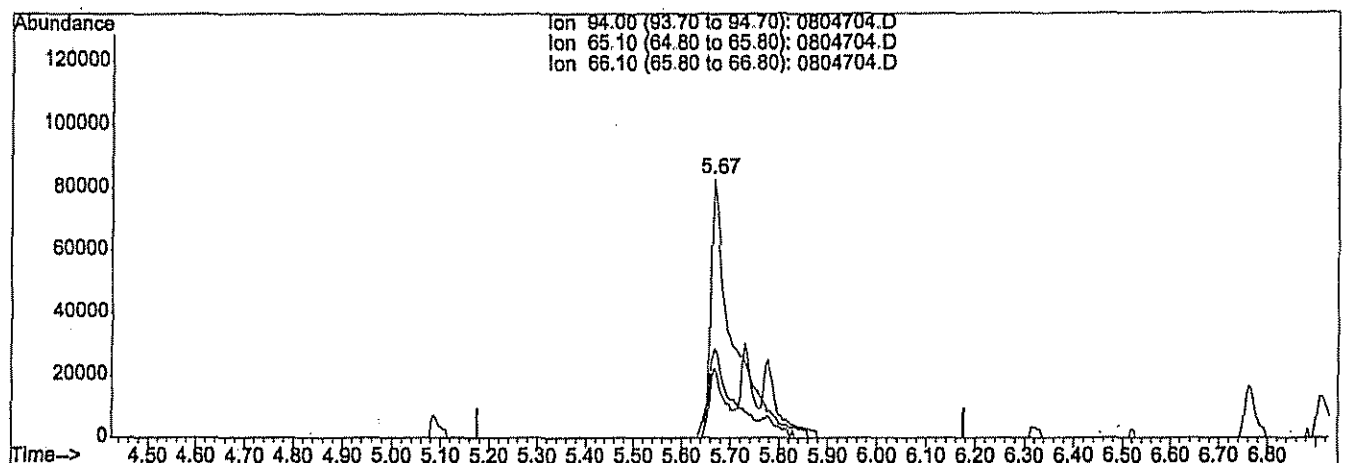
Ion	Exp%	Act%
94.00	100	100
65.10	26.40	27.18
66.10	35.90	34.79
0.00	0.00	0.00

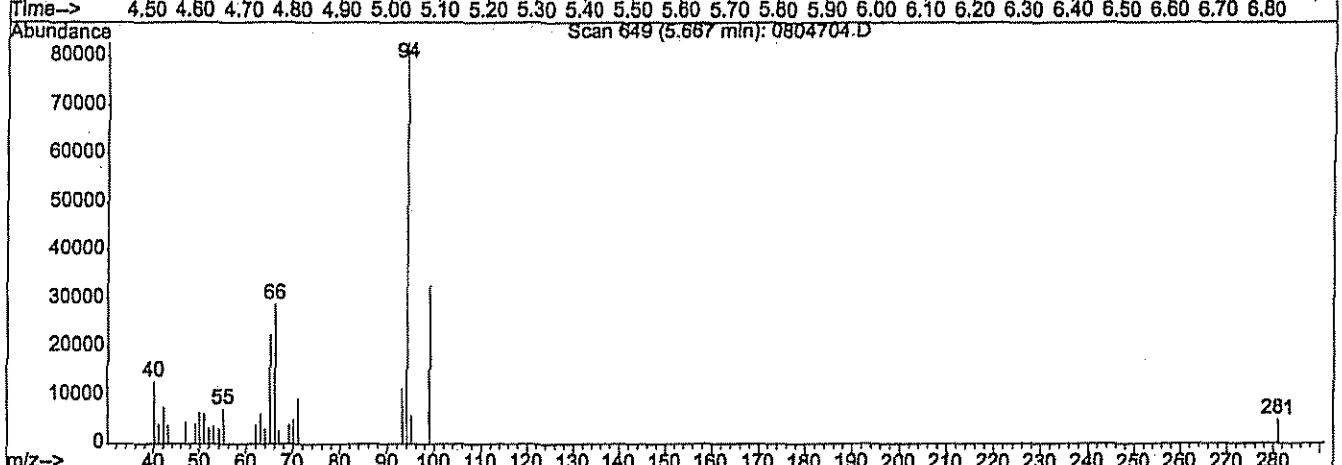
0804704.D 8270.M Thu Aug 04 11:20:47 2005 ENV

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

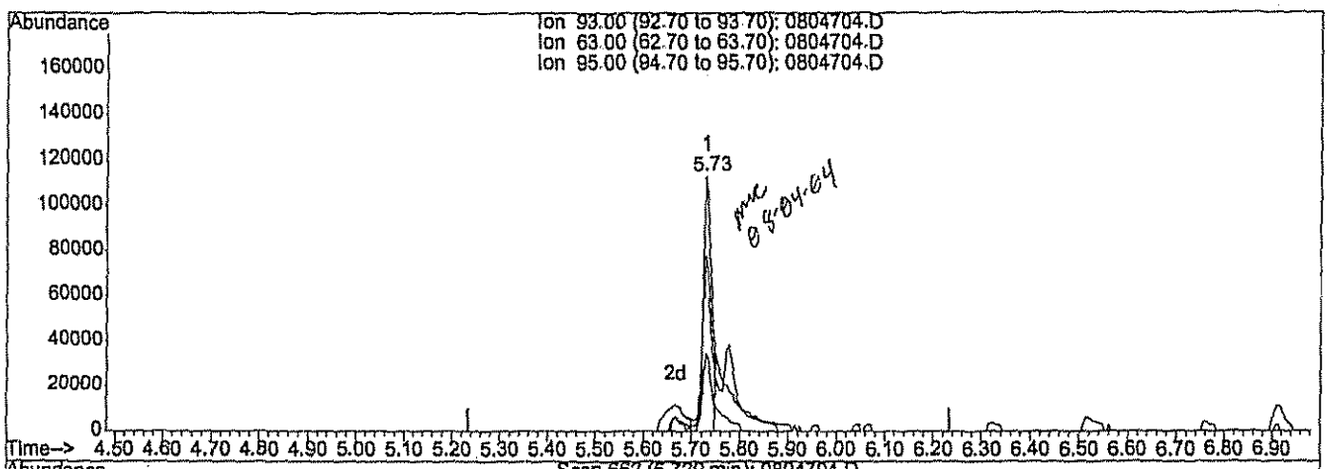
Ion	Exp%	Act%
94.00	100	100
65.10	26.40	27.18
66.10	35.90	34.79
0.00	0.00	0.00

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

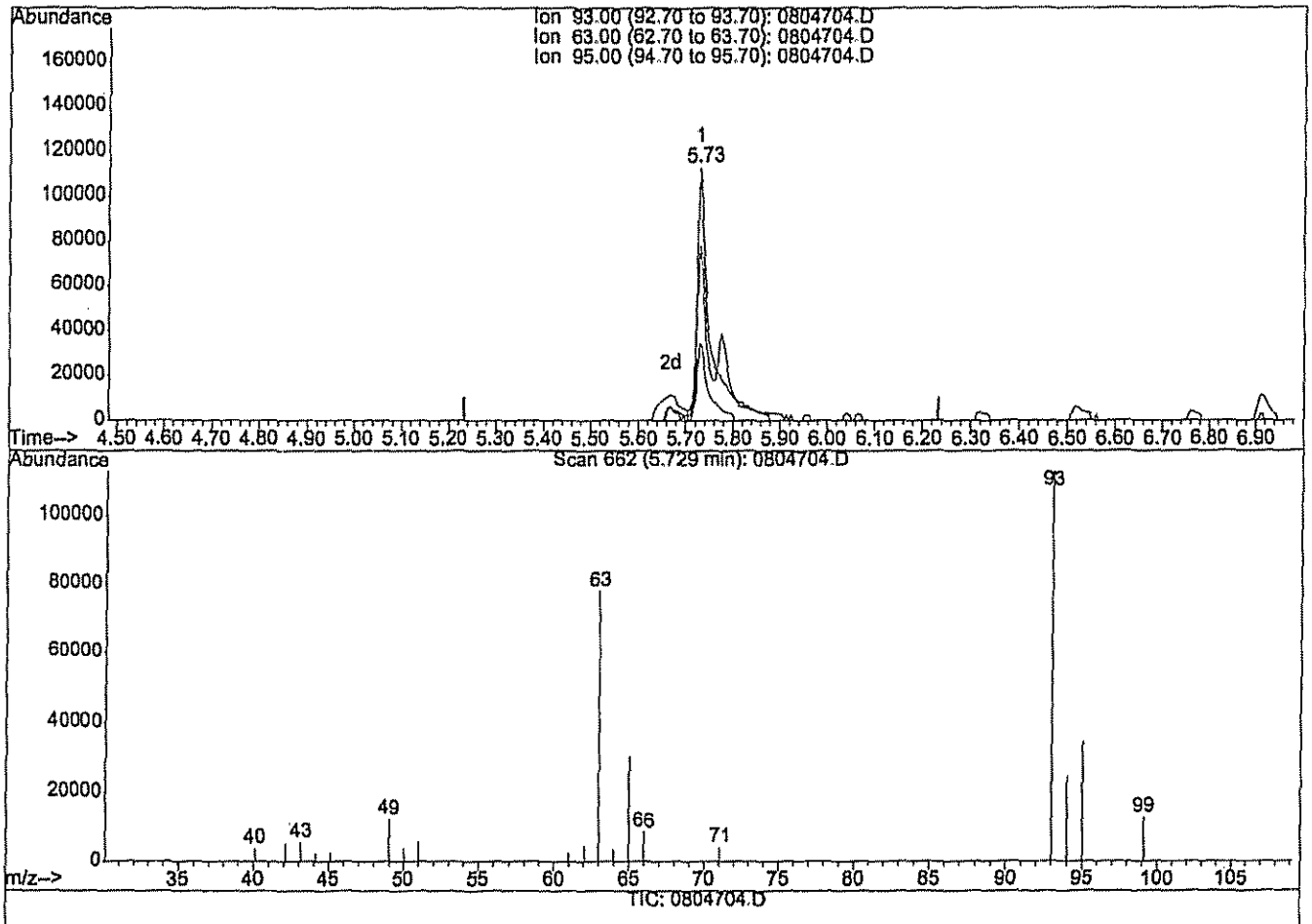
Ion	Exp%	Act%
93.00	100	100
63.00	68.30	69.10
95.00	33.00	30.60
0.00	0.00	0.00

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

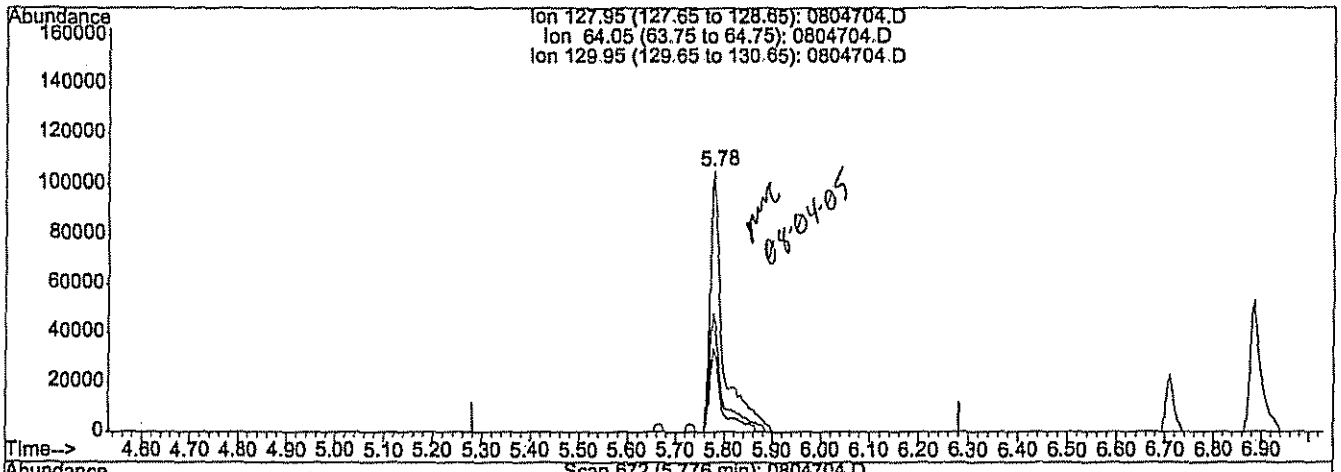
Ion	Exp%	Act%
93.00	100	100
63.00	68.30	69.10
95.00	33.00	30.60
0.00	0.00	0.00

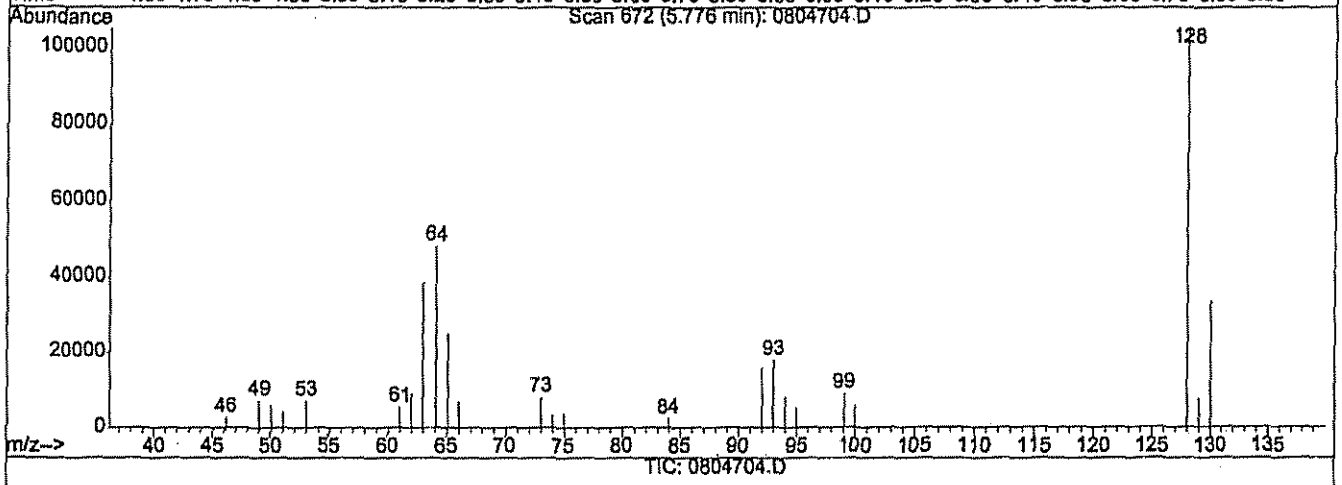
0804704.D 8270.M Thu Aug 04 11:20:52 2005 ENV

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

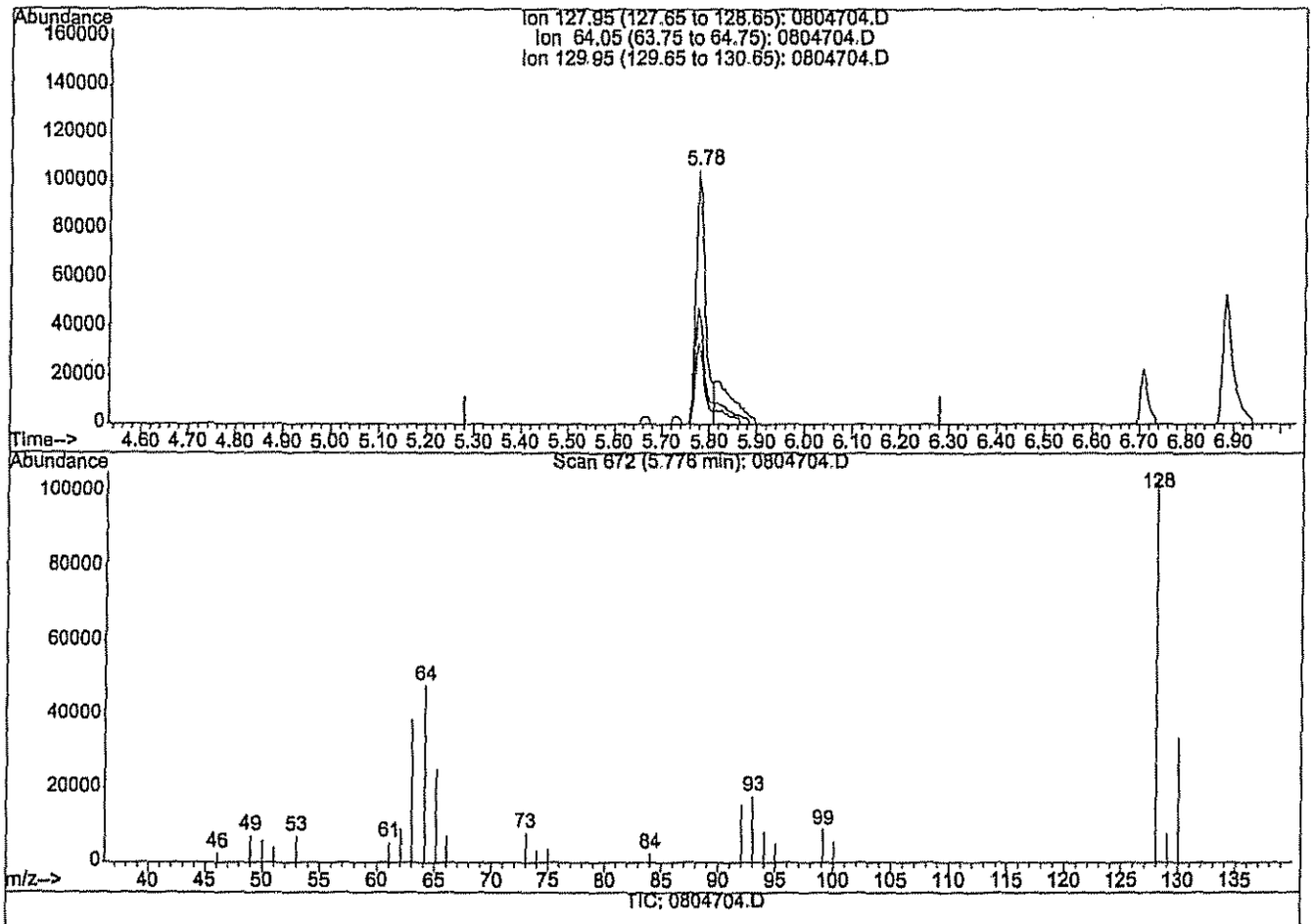
Ion	Exp%	Act%
127.95	100	100
64.05	46.40	45.70
129.95	31.90	32.13
0.00	0.00	0.00

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

mc 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
0804705.D 8270.M Thu Aug 04 14:35:22 2005 ENV Page 1

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
0804705.D 8270.M Thu Aug 04 14:35:23 2005 ENV Page 2

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

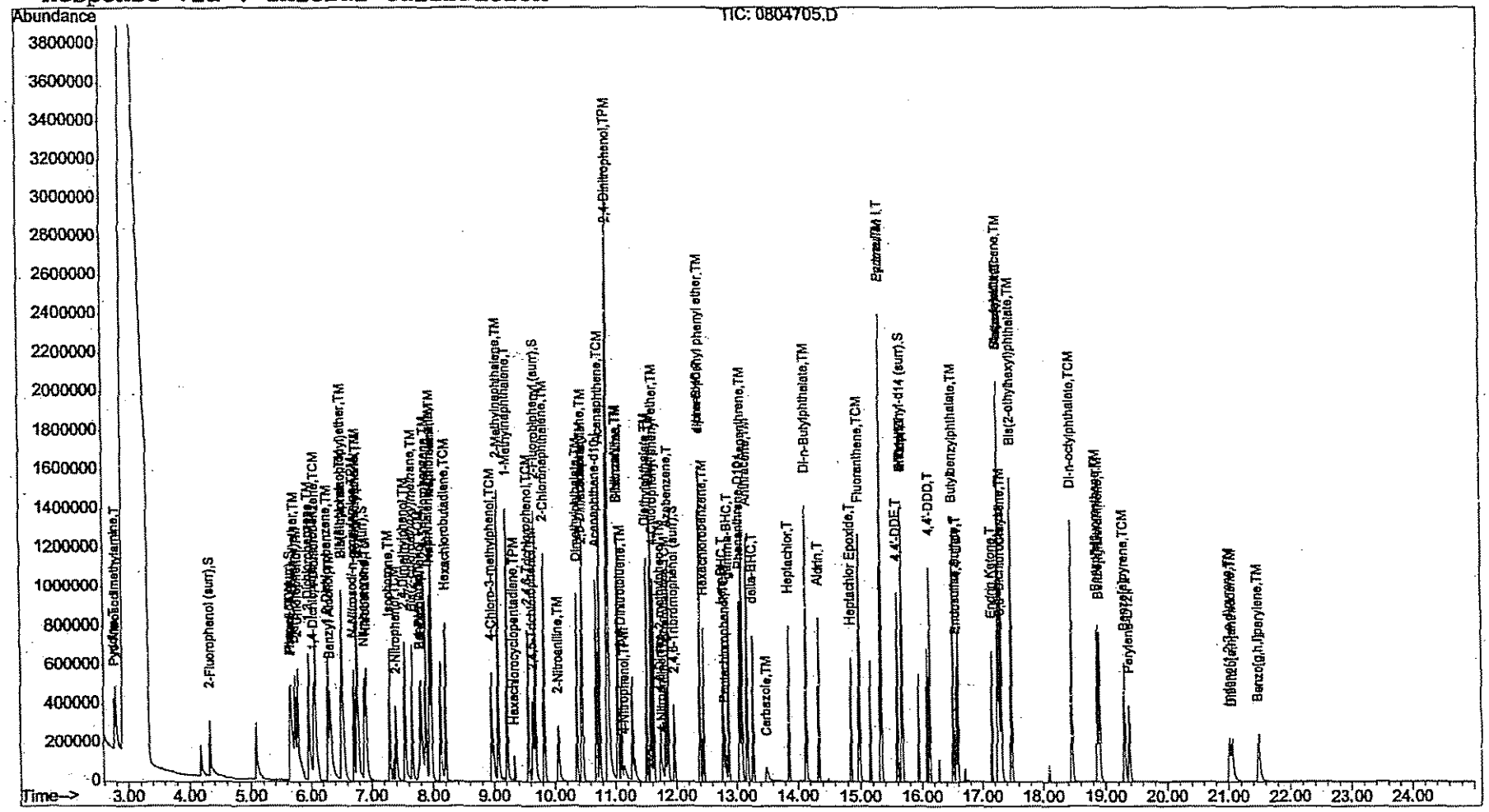
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	13.86	100	111188	6.91 ug/mL	99
72)	Aldrin	14.34	66	103985	6.66 ug/mL	98
73)	Heptachlor Epoxide	14.85	353	41705	6.45 ug/mL	92
74)	Endosulfan I	15.33	195	26845	7.57 ug/mL	95
75)	4,4'-DDE	15.59	246	157724	6.62 ug/mL	98
76)	Dieldrin	15.67	79	135057	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

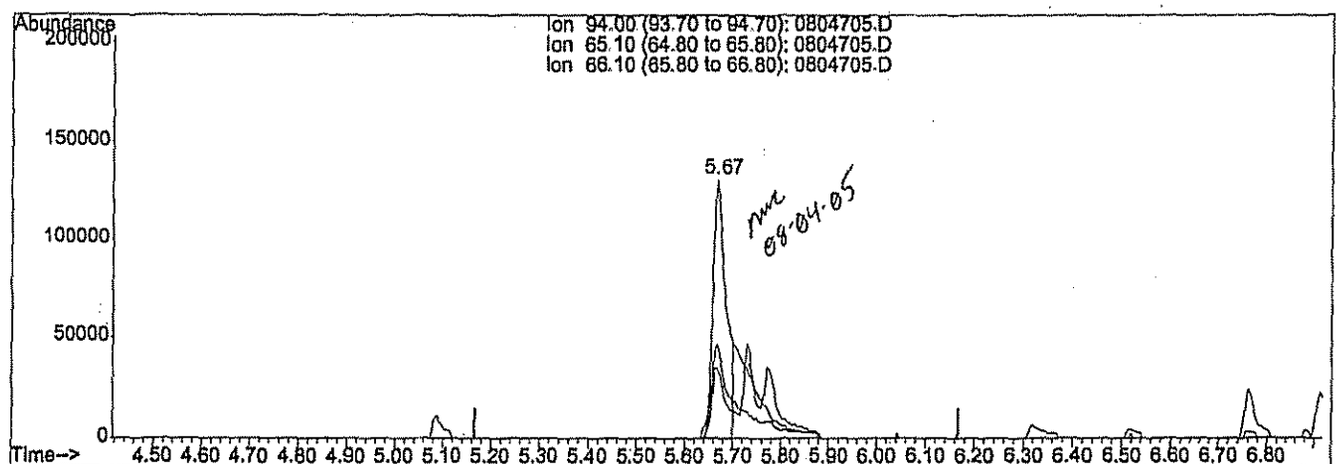


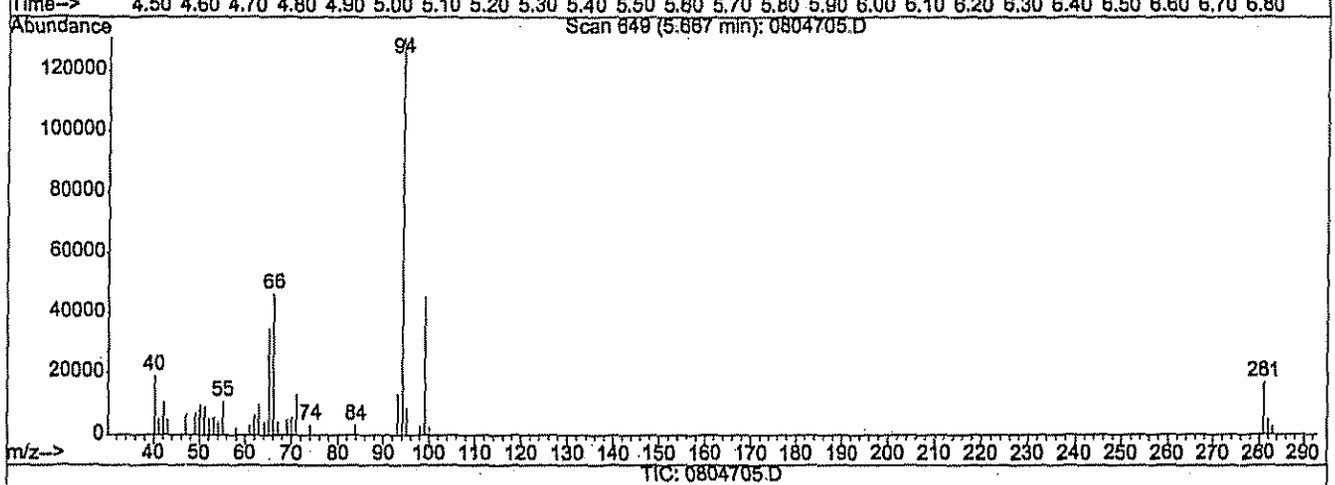
0804705.D 8270.M Thu Aug 04 14:35:25 2005 ENV Page 4

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





(4) Phenol (TCM)

5.67min 4.83ug/mL m

response 250440

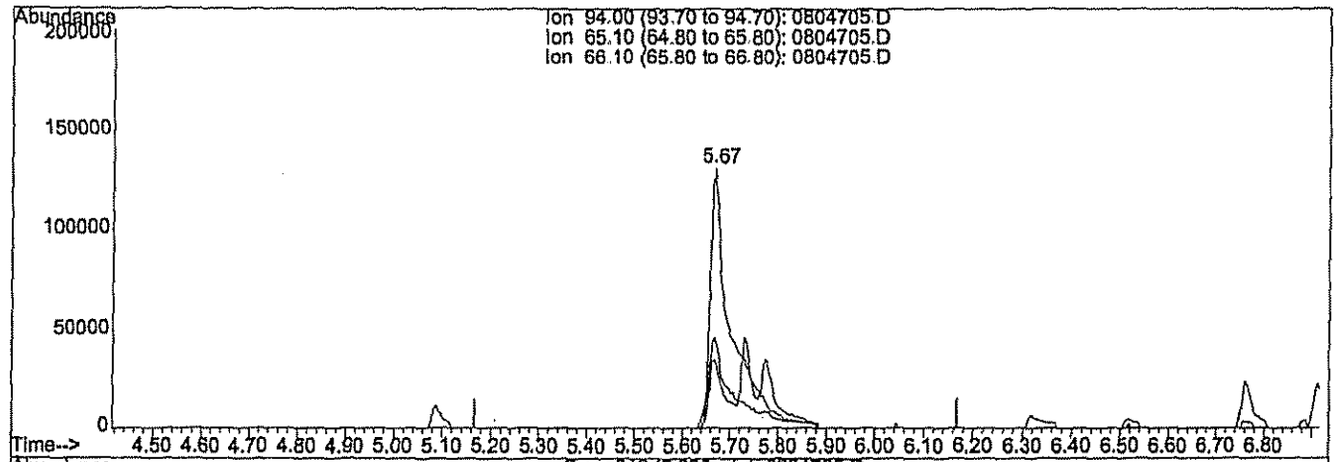
Ion	Exp%	Act%
94.00	100	100
65.10	27.20	26.48
66.10	34.80	35.41
0.00	0.00	0.00

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



(4) Phenol (TCM)

5.67min 7.89ug/mL

response 408971

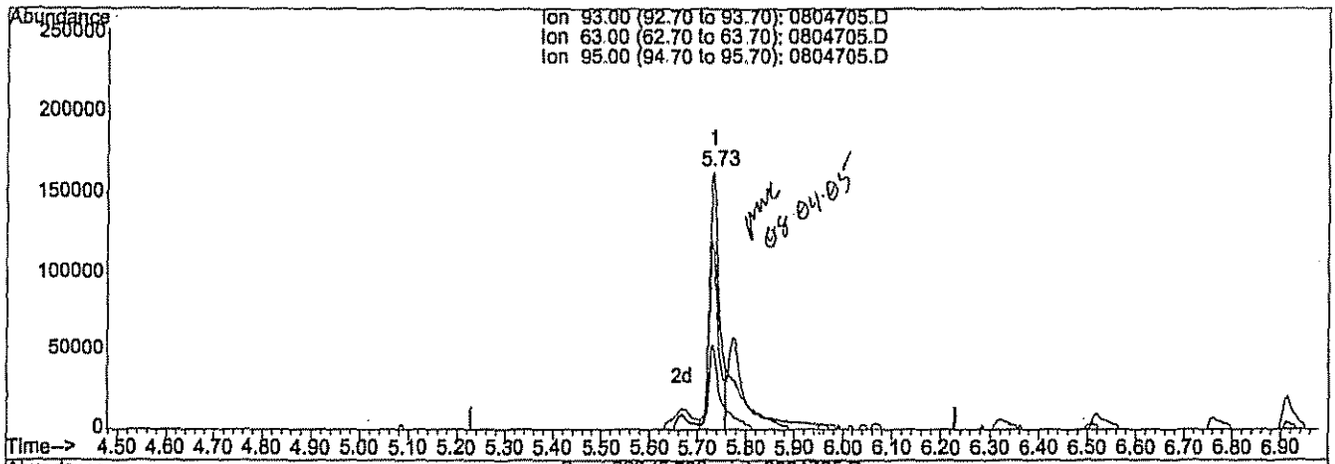
Ion	Exp%	Act%
94.00	100	100
65.10	27.20	26.48
66.10	34.80	35.41
0.00	0.00	0.00

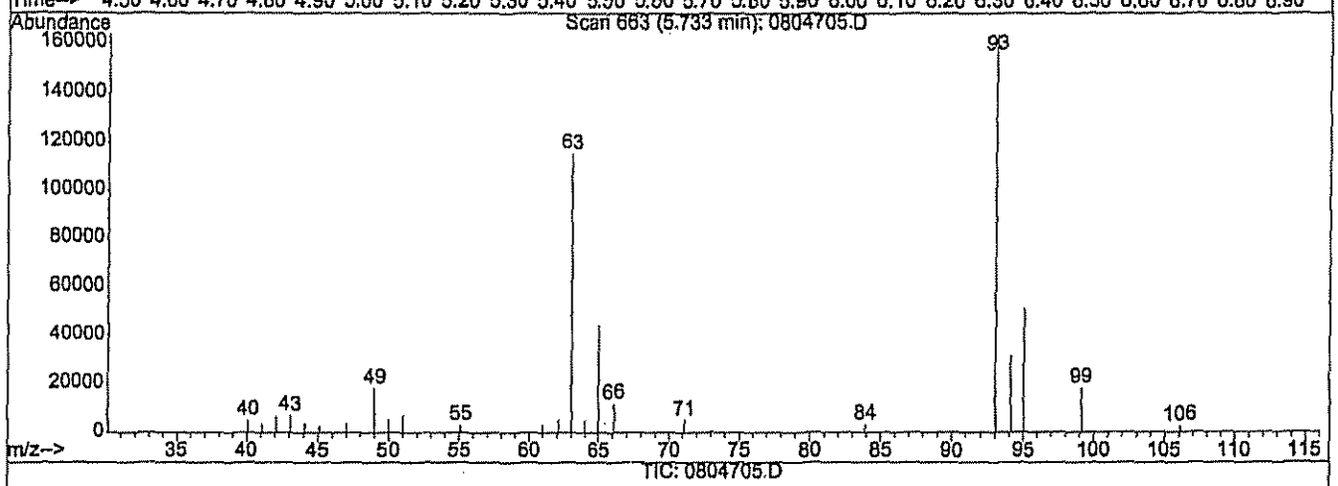
0804705.D 8270.M Thu Aug 04 12:01:29 2005 ENV

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

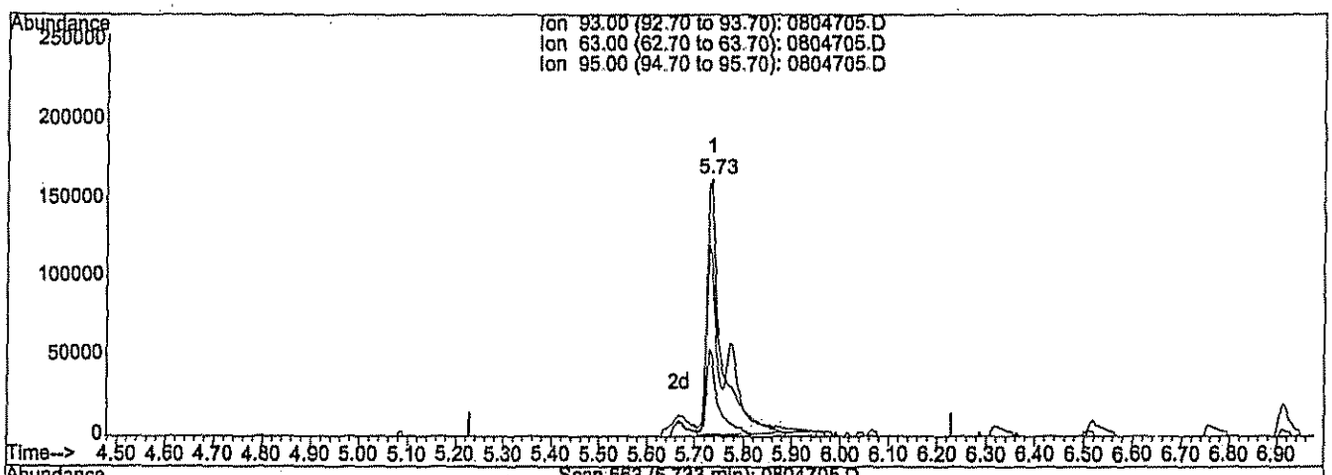
Ion	Exp%	Act%
93.00	100	100
63.00	69.10	70.53
95.00	30.60	31.47
0.00	0.00	0.00

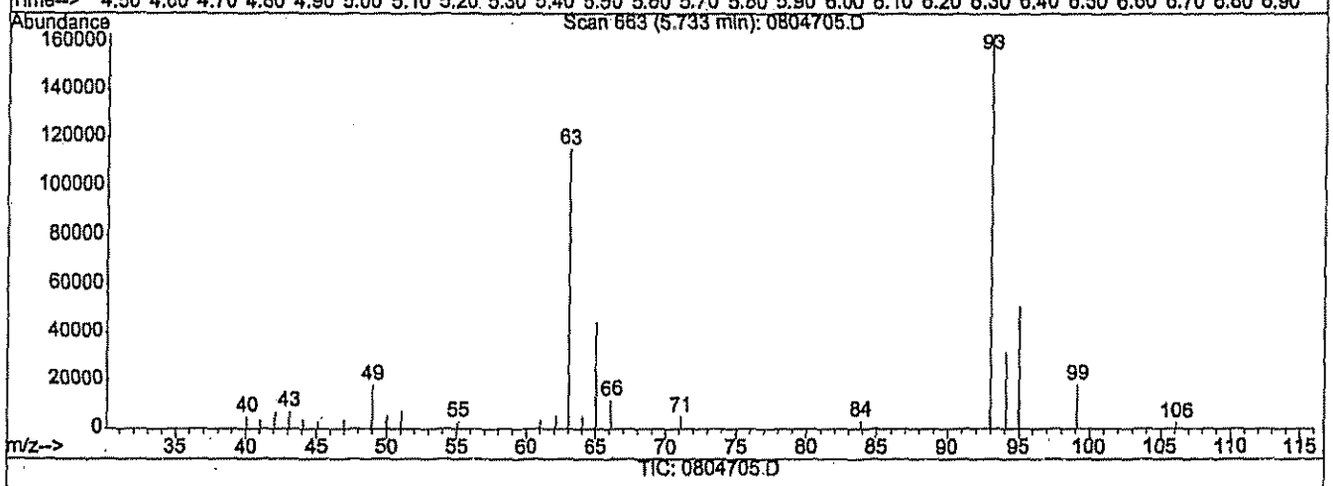
0804705.D 8270.M Thu Aug 04 12:02:00 2005 ENV

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

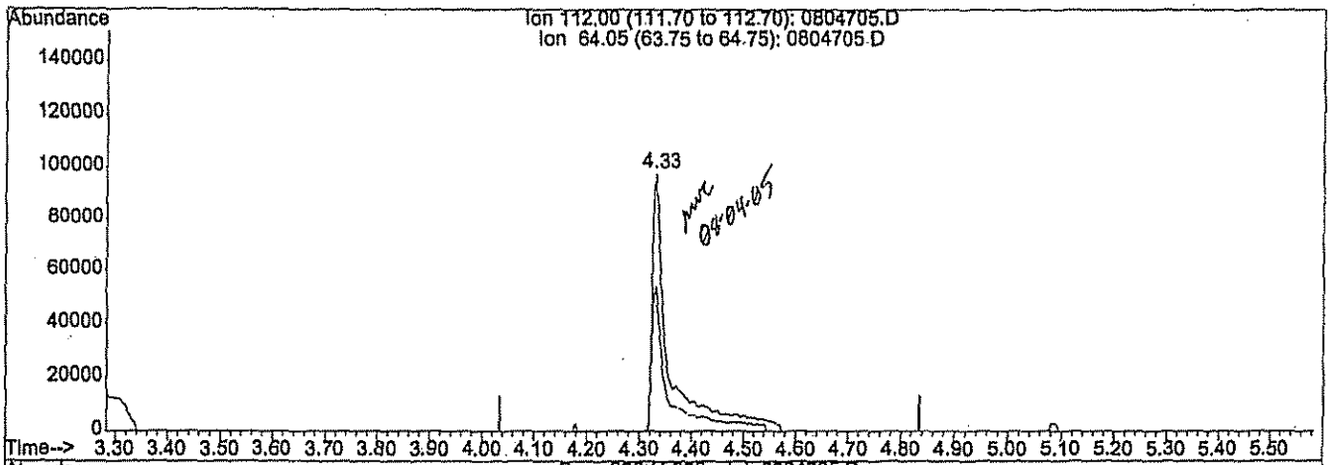
Ion	Exp%	Act%
93.00	100	100
63.00	69.10	71.91
95.00	30.60	32.09
0.00	0.00	0.00

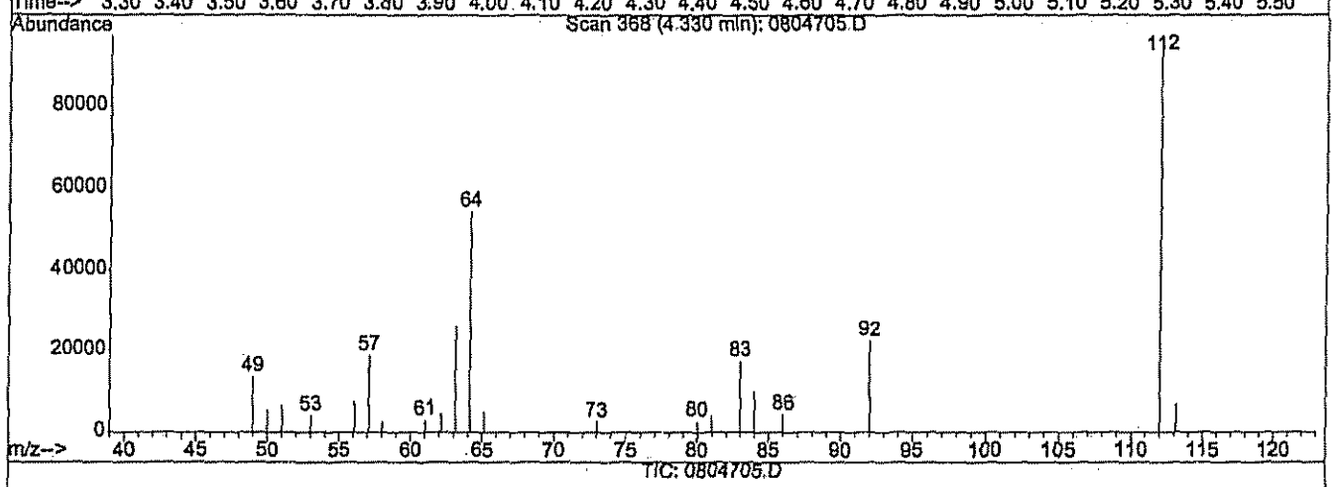
0804705.D 8270.M Thu Aug 04 12:01:42 2005 ENV

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

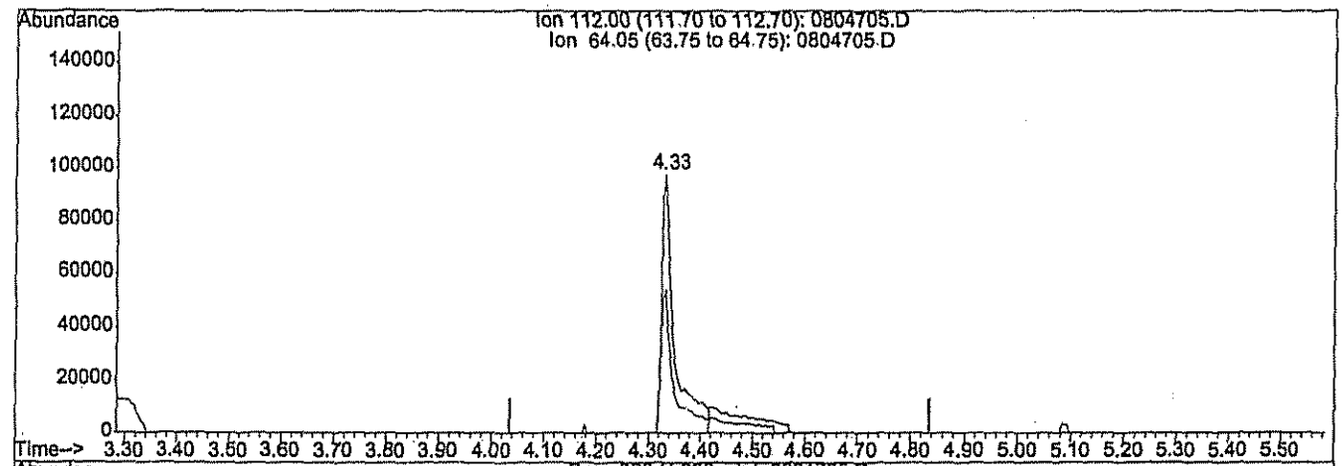
Ion	Exp%	Act%
112.00	100	100
64.05	42.10	42.17
0.00	0.00	0.00
0.00	0.00	0.00

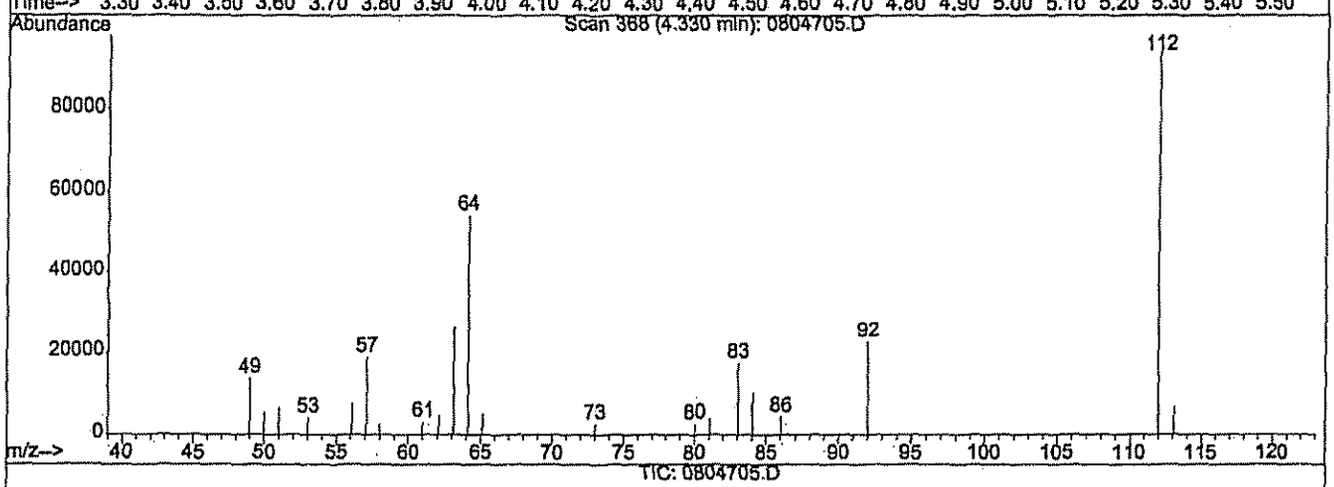
0804705.D 8270.M Thu Aug 04 12:02:17 2005 ENV

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





TIC: 0804705.D

(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

mrc 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

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
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

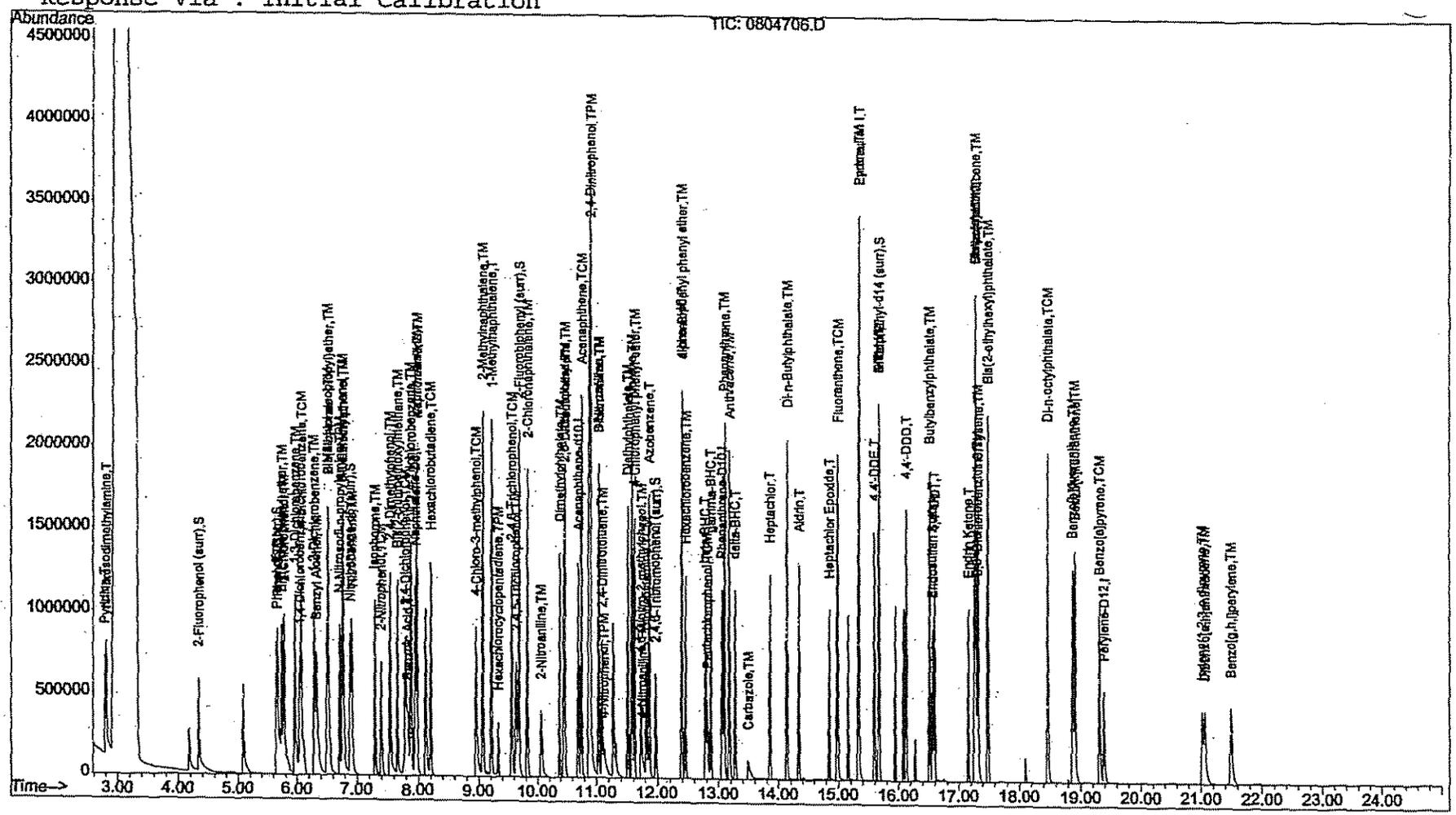
Quantitation Report (QT Reviewed)

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

Page 4

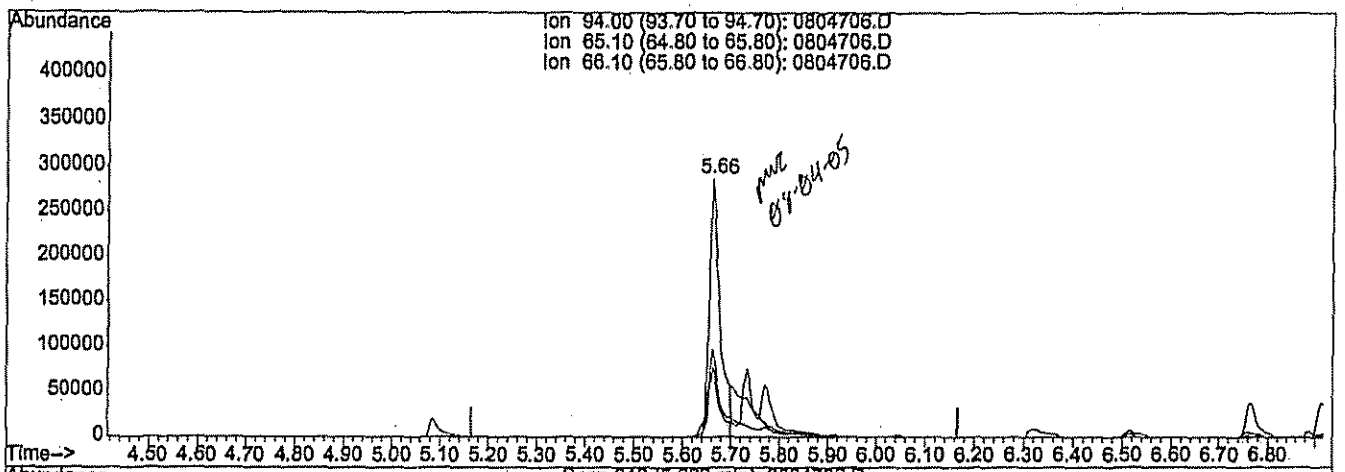
Quantitation Report (Qedit)

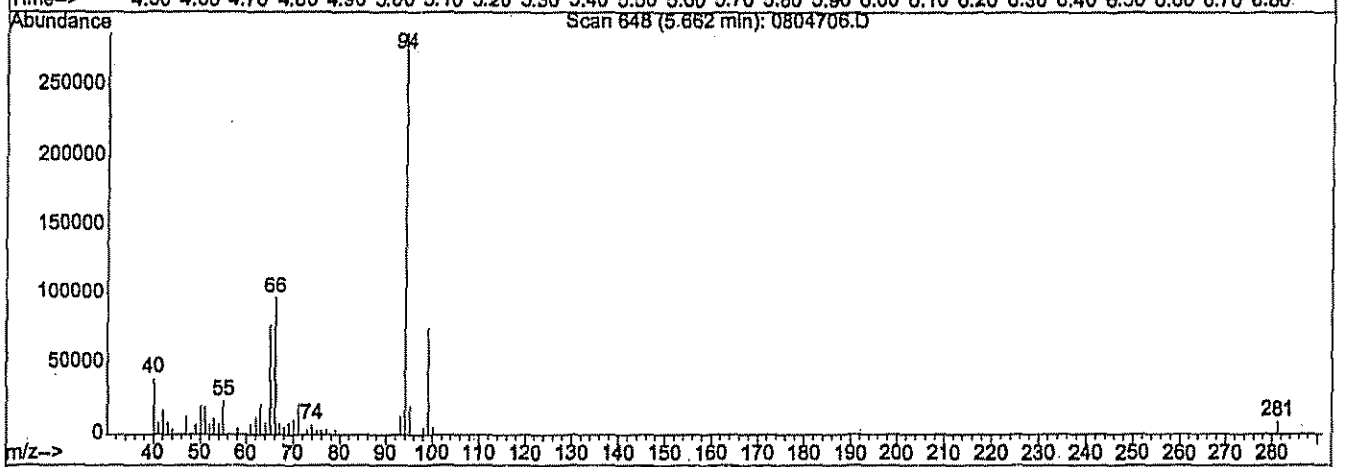
Data File : C:\MSDCHEM\1\DATA\7080405\0804706.D
Acq On : 4 Aug 2005 12:00 pm
Sample : SVCAL08
Misc :
MS Integration Params: rteint.p
Quant Time: Aug 4 14:17 2005

Vial: 6
Operator: MRC
Inst : MSD7
Multiplr: 1.00

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

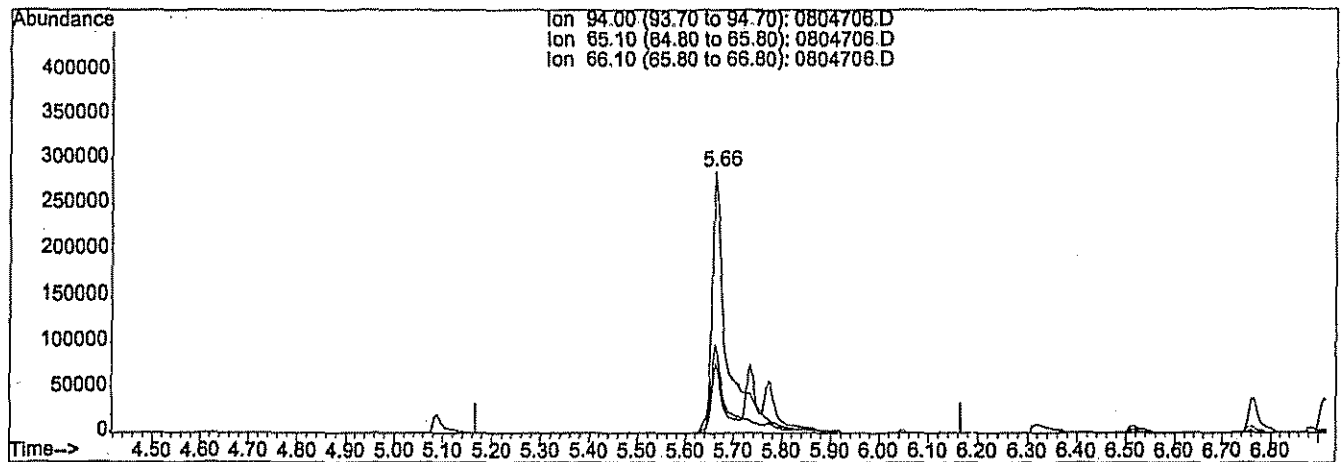
Ion	Exp%	Act%
94.00	100	100
65.10	26.50	26.86
66.10	35.40	33.89
0.00	0.00	0.00

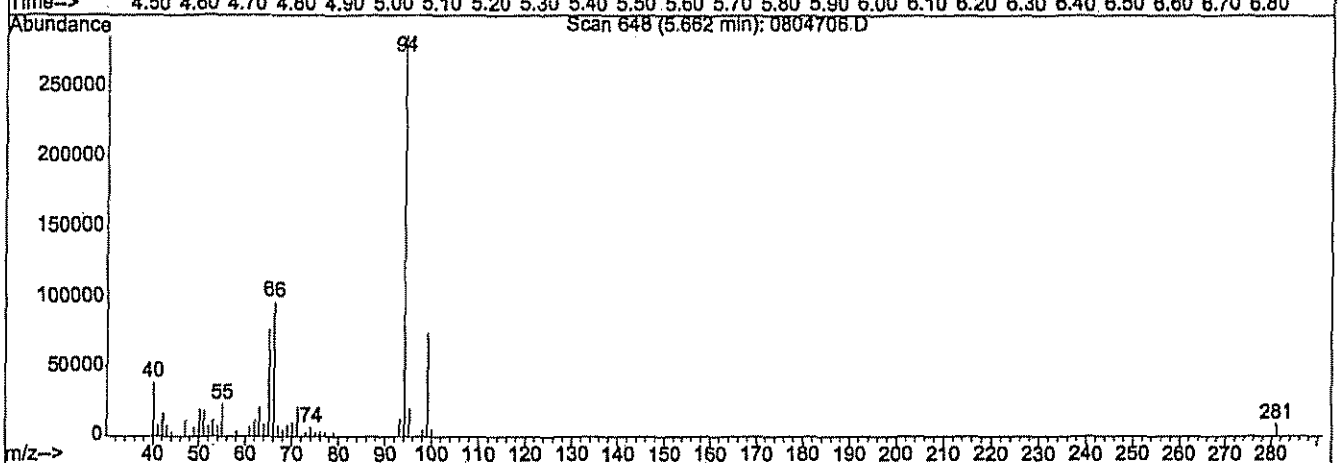
0804706.D 8270.M Thu Aug 04 14:17:36 2005 ENV

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





TIC: 0804706.D

(4) Phenol (TCM)

5.66min 12.79ug/mL

response 633227

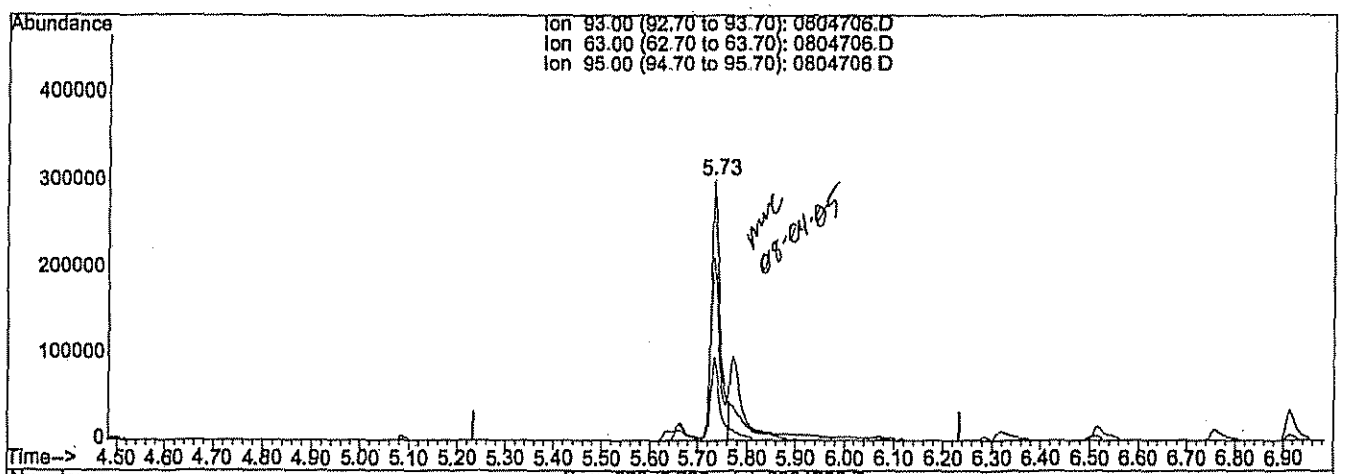
Ion	Exp%	Act%
94.00	100	100
65.10	26.50	25.75
66.10	35.40	32.68
0.00	0.00	0.00

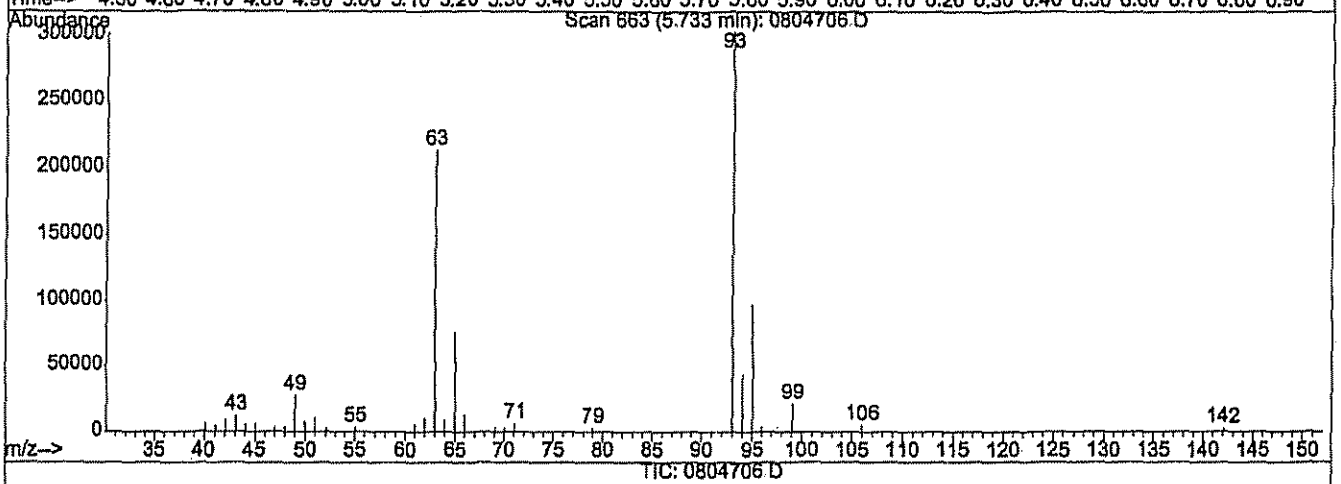
0804706.D 8270.M Thu Aug 04 14:17:31 2005 ENV

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

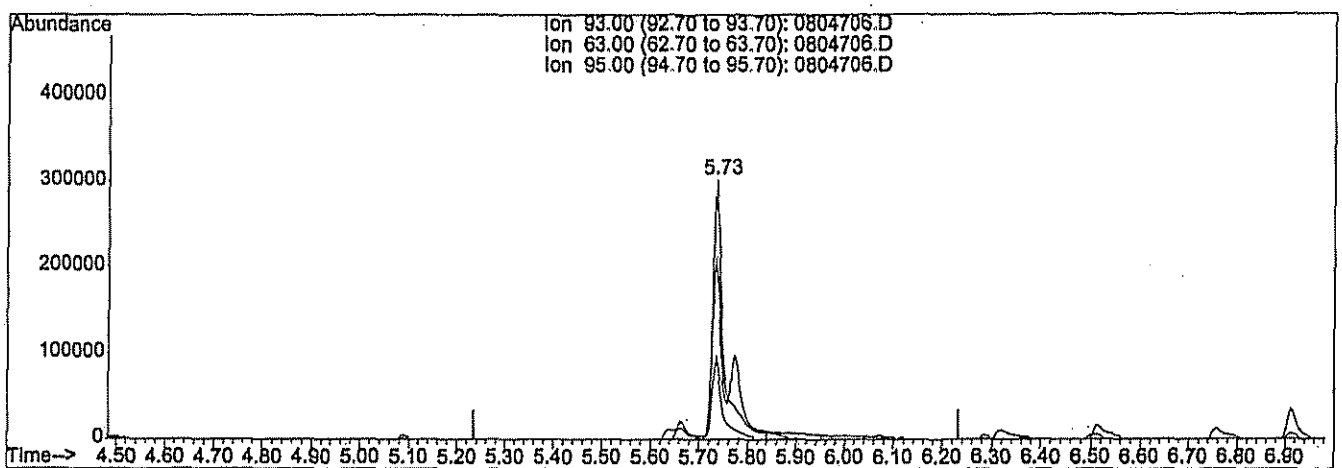
Ion	Exp%	Act%
93.00	100	100
63.00	70.50	70.60
95.00	31.50	32.15
0.00	0.00	0.00

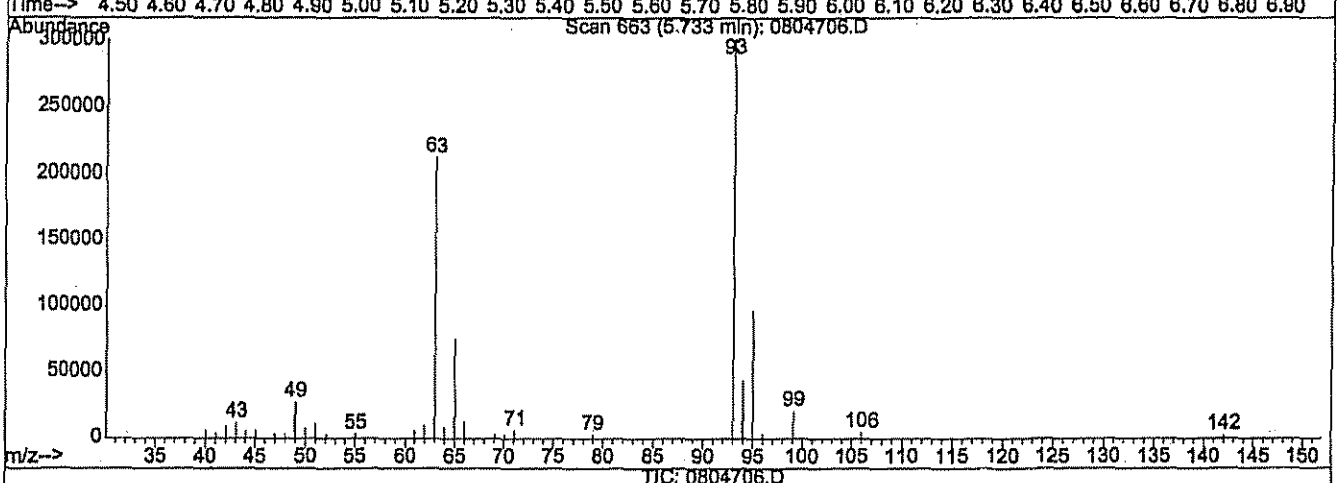
0804706.D 8270.M Thu Aug 04 14:17:47 2005 ENV

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

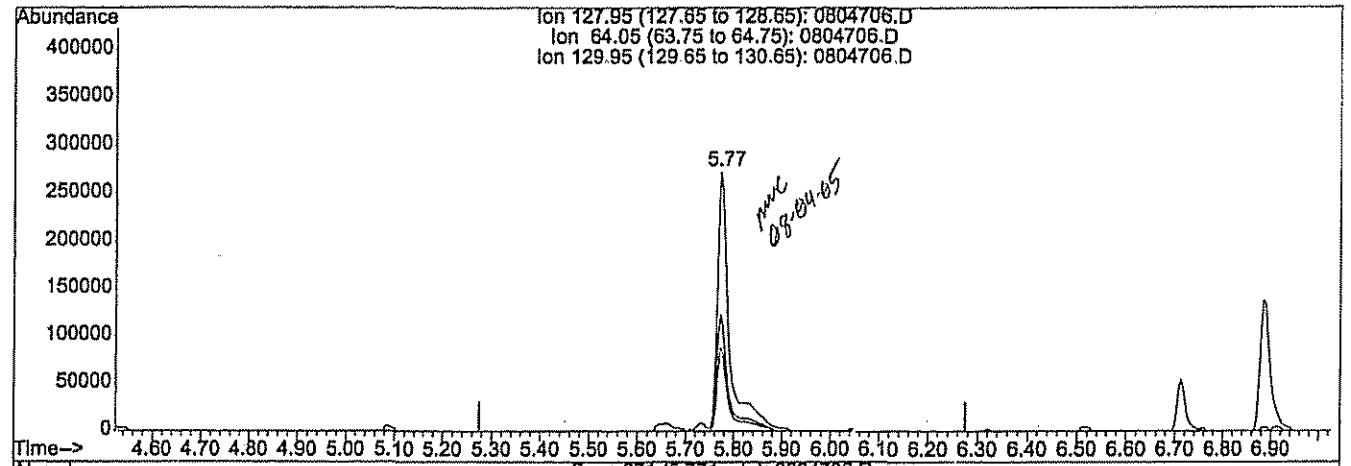
Ion	Exp%	Act%
93.00	100	100
63.00	70.50	69.30
95.00	31.50	32.15
0.00	0.00	0.00

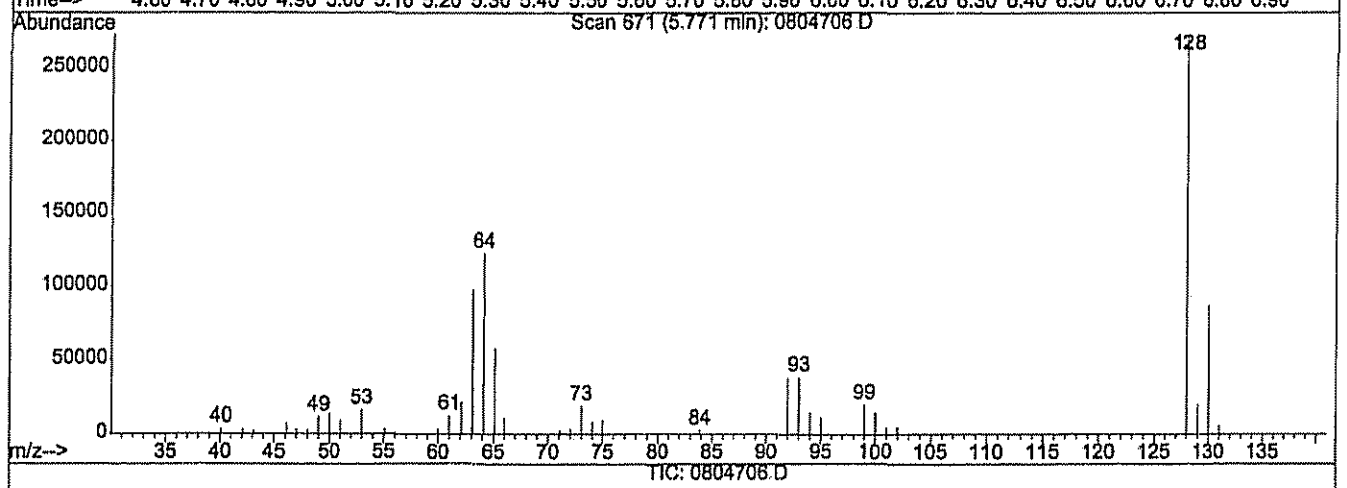
0804706.D 8270.M Thu Aug 04 14:17:40 2005 ENV

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





(6) 2-Chlorophenol (TM)

5.77min 7.96ug/mL m

response 490048

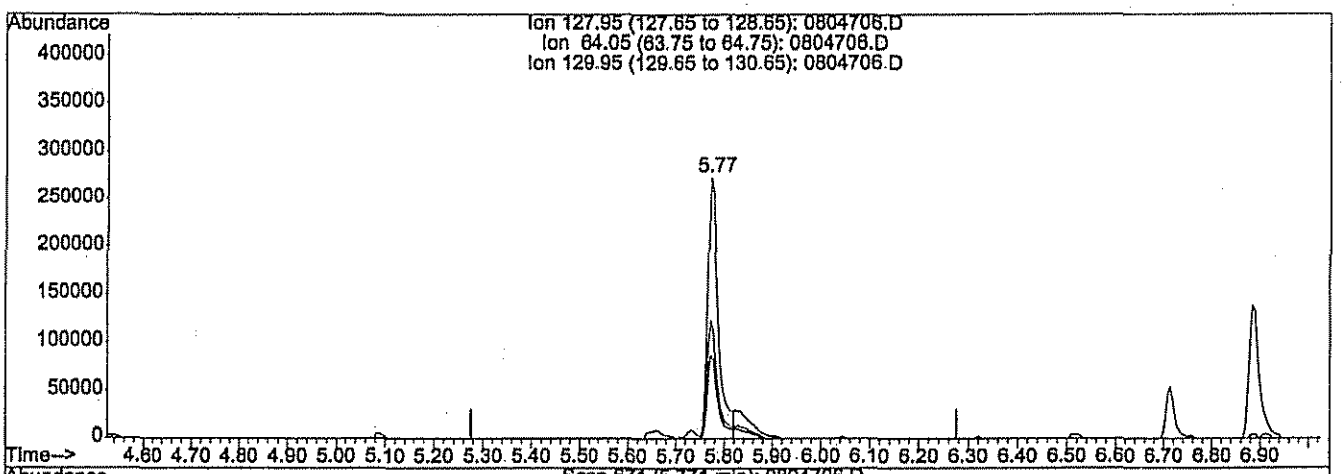
Ion	Exp%	Act%
127.95	100	100
64.05	45.80	44.91
129.95	32.80	32.06
0.00	0.00	0.00

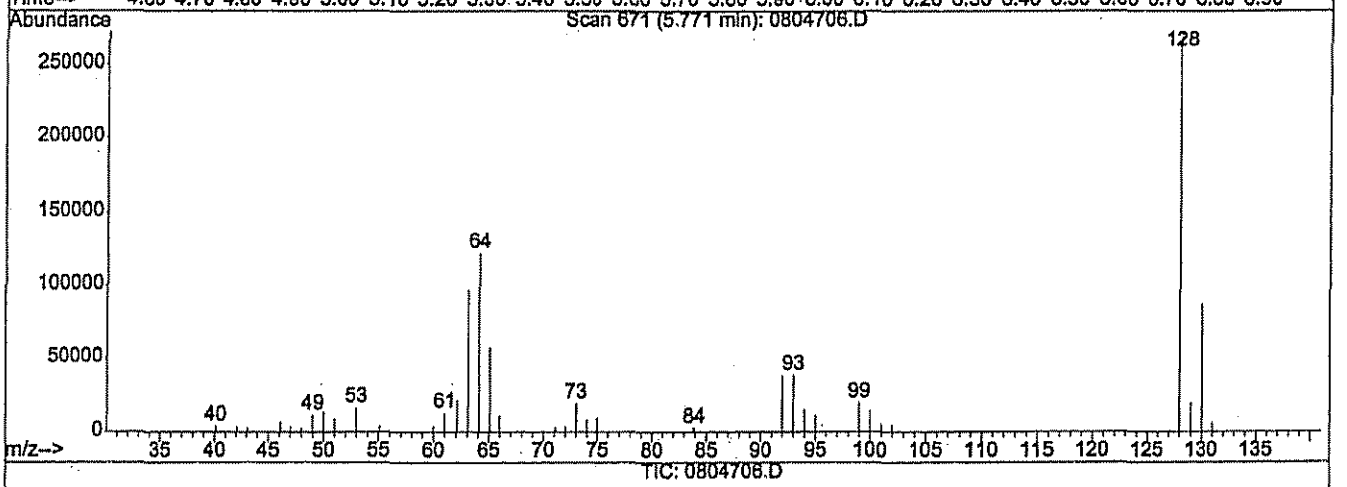
0804706.D 8270.M Thu Aug 04 14:18:00 2005 ENV

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





TIC: 0804706.D

(6) 2-Chlorophenol (TM)

5.77min 6.75ug/mL

response 415518

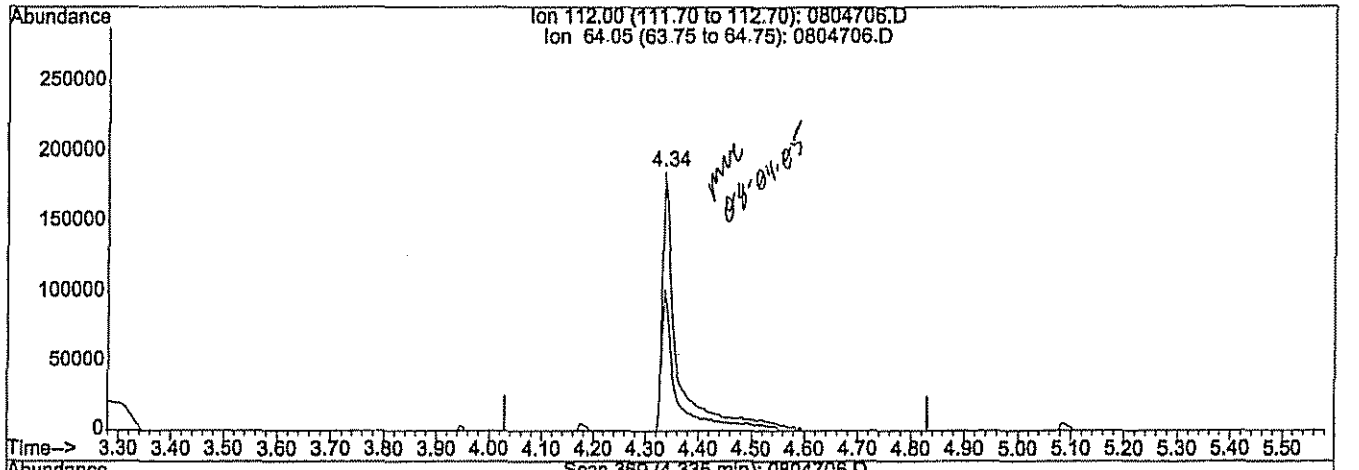
Ion	Exp%	Act%
127.95	100	100
64.05	45.80	43.91
129.95	32.80	32.06
0.00	0.00	0.00

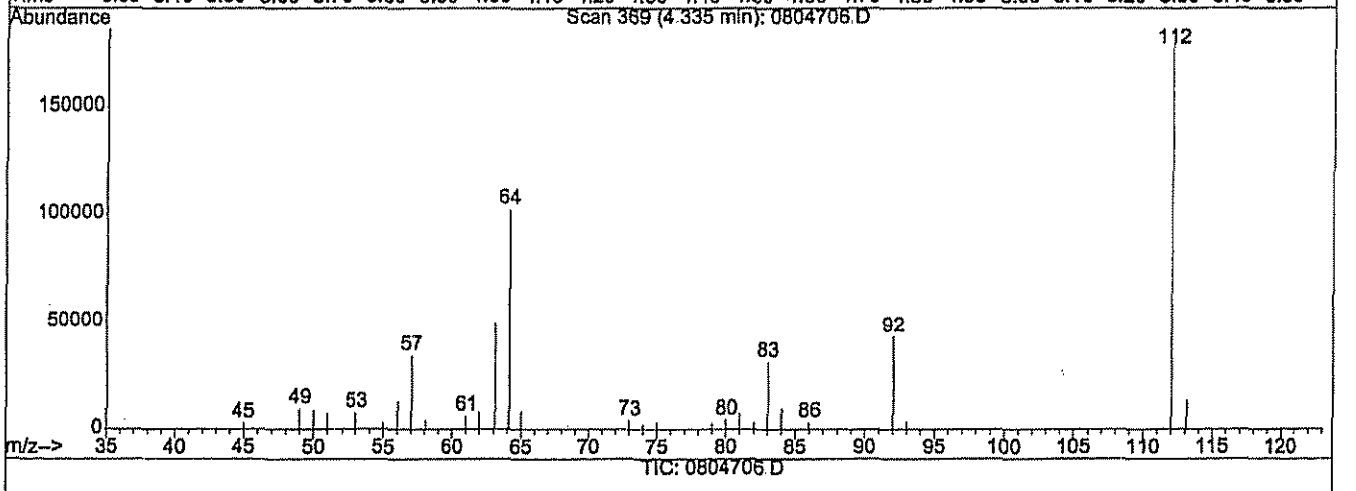
0804706.D 8270.M Thu Aug 04 14:17:56 2005 ENV

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

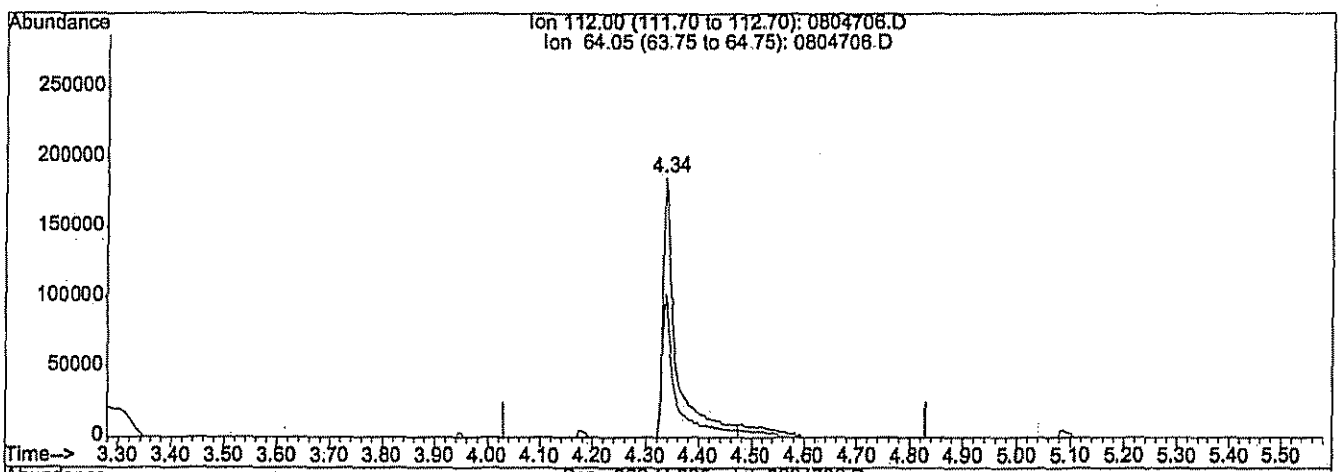
Ion	Exp%	Act%
112.00	100	100
64.05	42.20	48.84
0.00	0.00	0.00
0.00	0.00	0.00

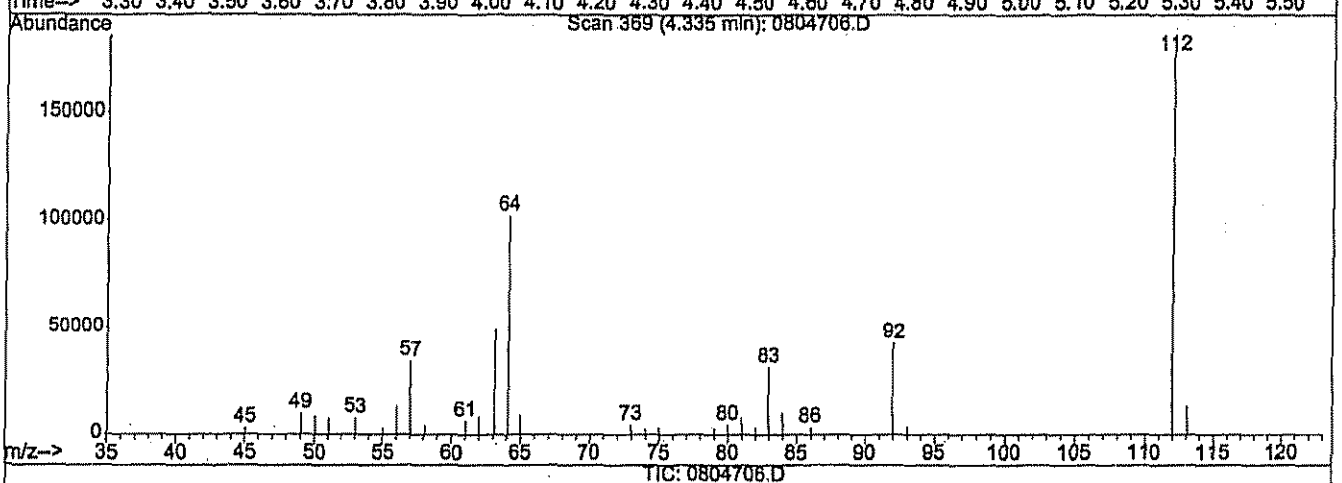
0804706.D 8270.M Thu Aug 04 14:18:13 2005 ENV

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

mre 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

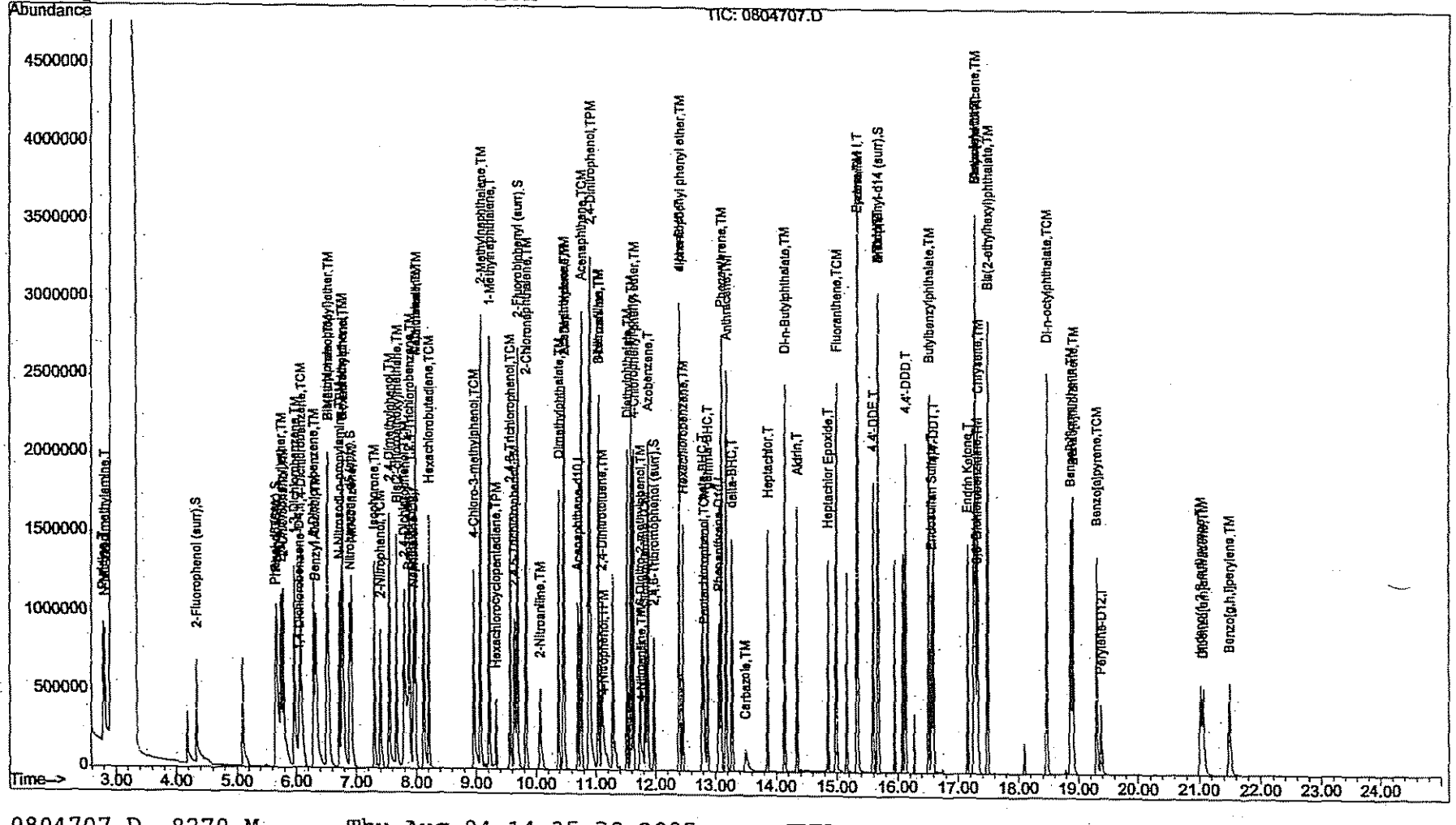
Quantitation Report (QT Reviewed)

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



0804707.D 8270.M Thu Aug 04 14:35:39 2005 ENV

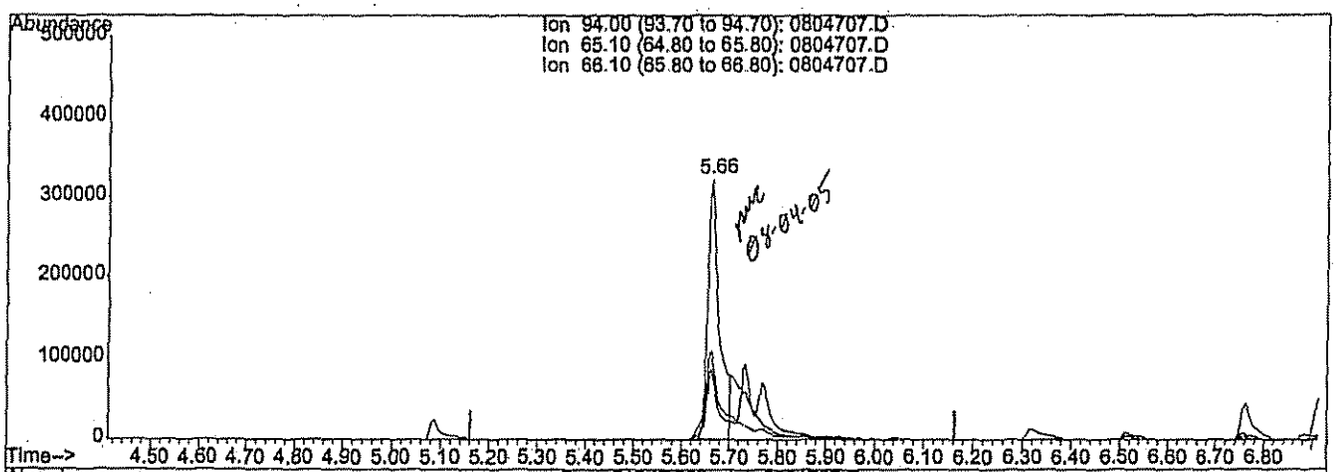
PARADIGM ANALYTICAL LABORATORIES, INC.

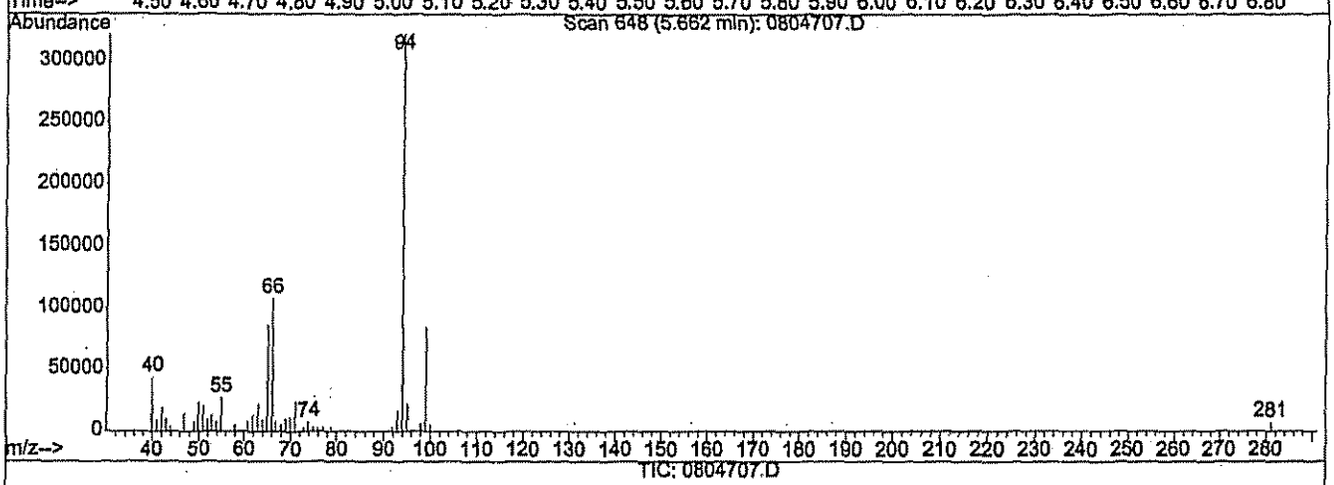
N.C. CERTIFICATION #481

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

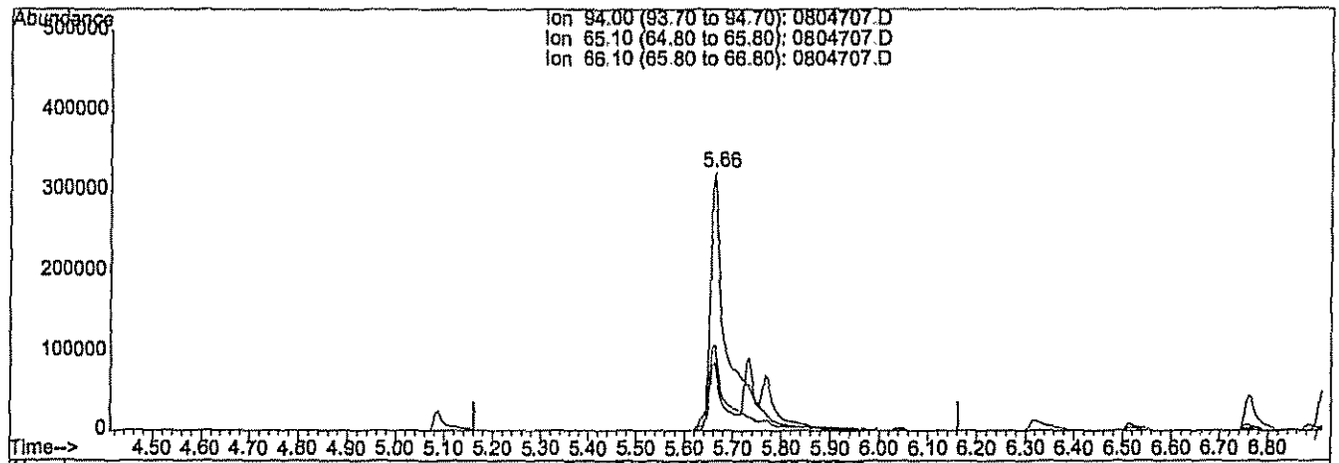
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.76
66.10	33.90	33.50
0.00	0.00	0.00

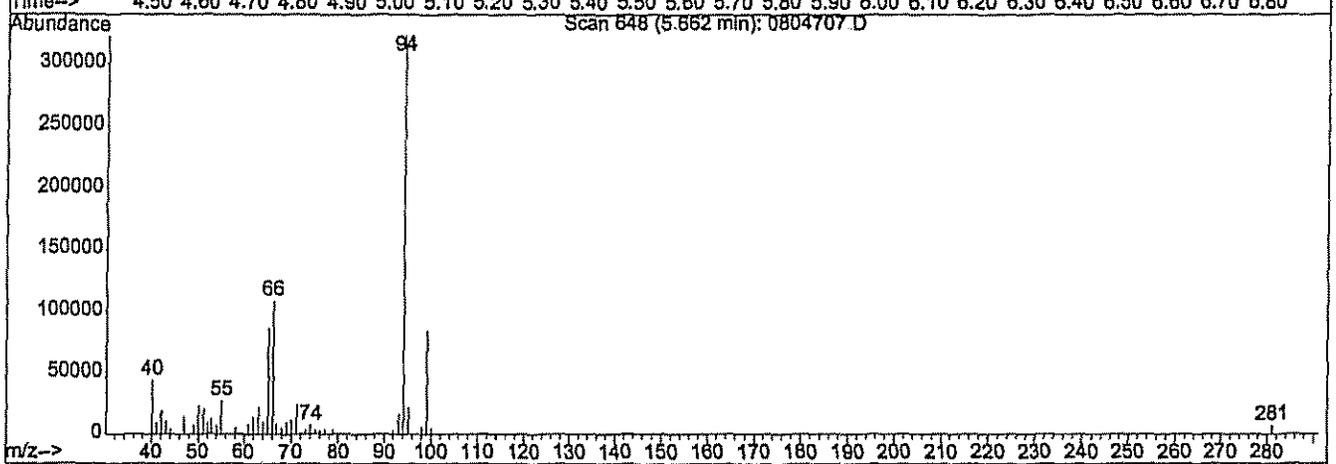
0804707.D 8270.M Thu Aug 04 14:19:53 2005 ENV

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





TIC: 0804707.D

(4) Phenol (TCM)

5.66min 19.39ug/mL

response 806913

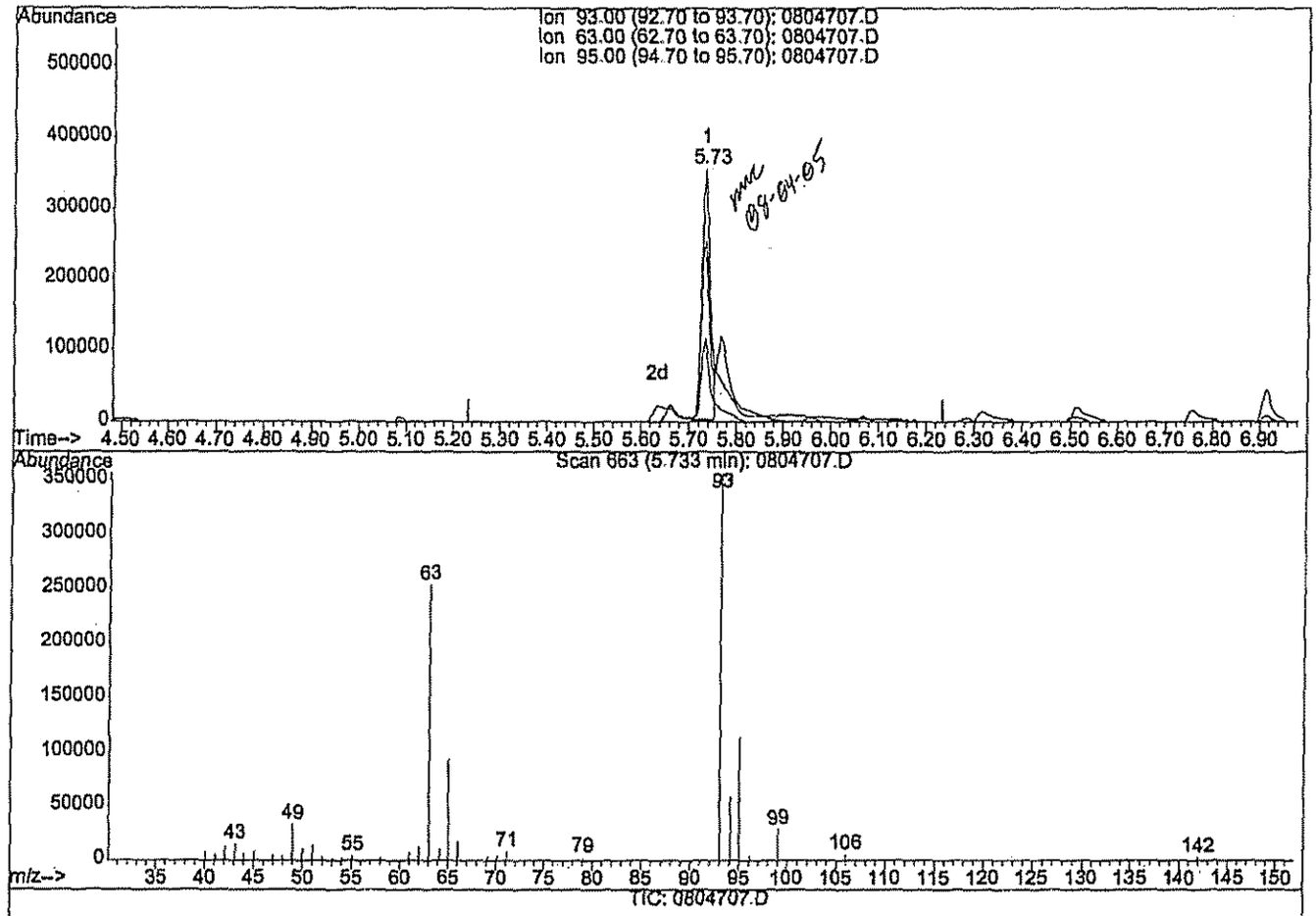
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	25.45
66.10	33.90	32.44
0.00	0.00	0.00

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

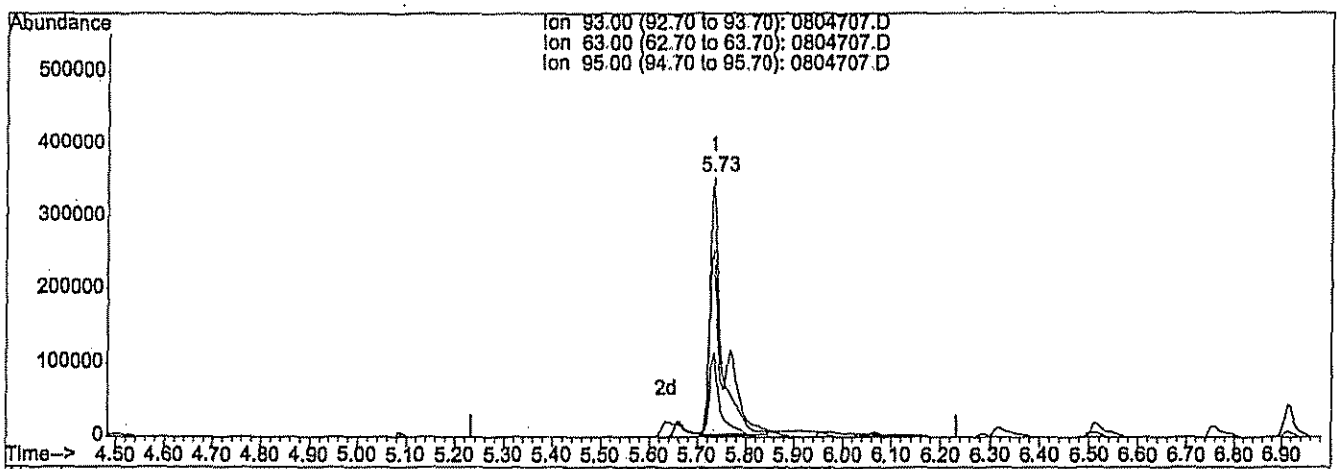
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.23
95.00	32.20	32.10
0.00	0.00	0.00

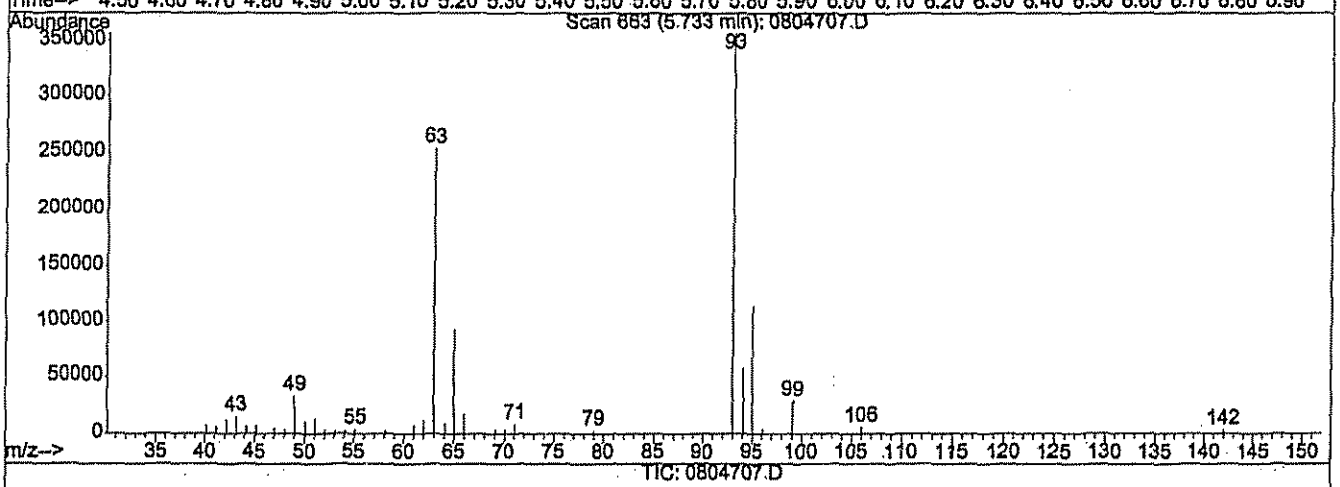
0804707.D 8270.M Thu Aug 04 14:20:08 2005 ENV

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





TIC: 0804707.D

(5) Bis(2-chloroethyl)ether (TM)

5.73min 13.21ug/mL

response 560414

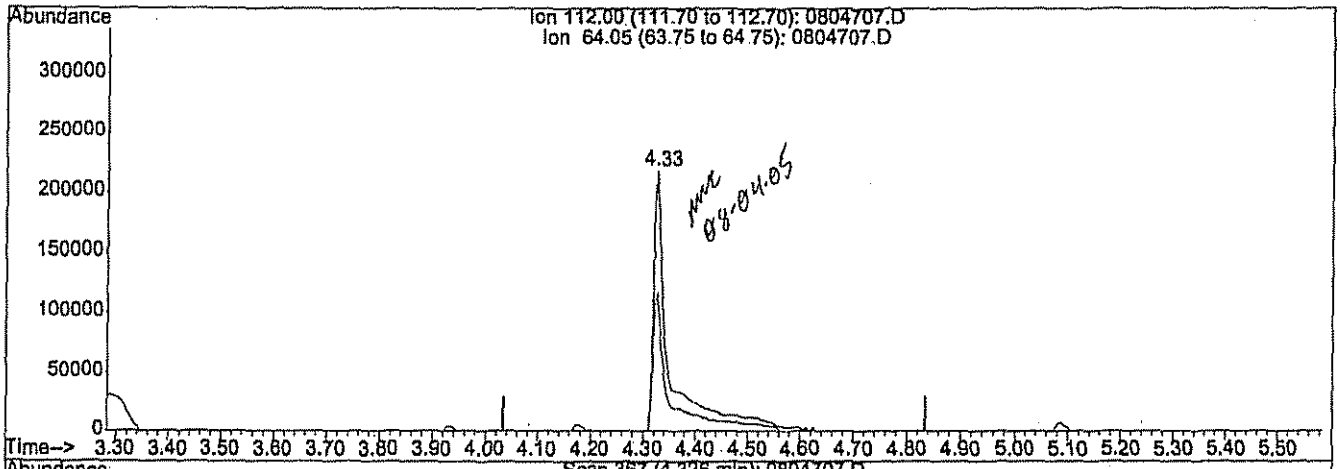
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.51
95.00	32.20	32.50
0.00	0.00	0.00

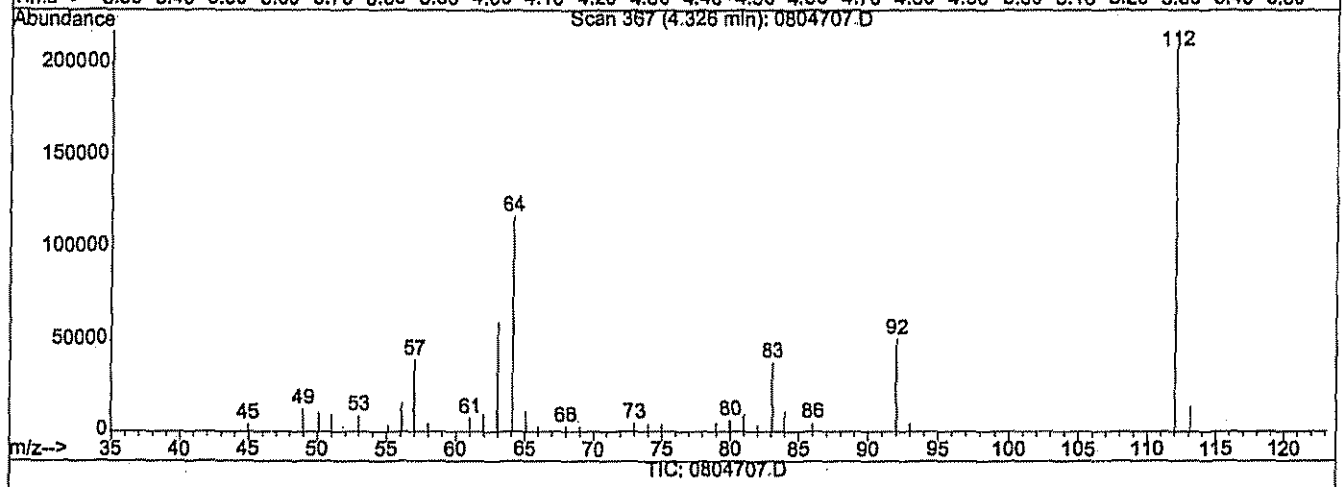
0804707.D 8270.M Thu Aug 04 14:19:57 2005 ENV

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

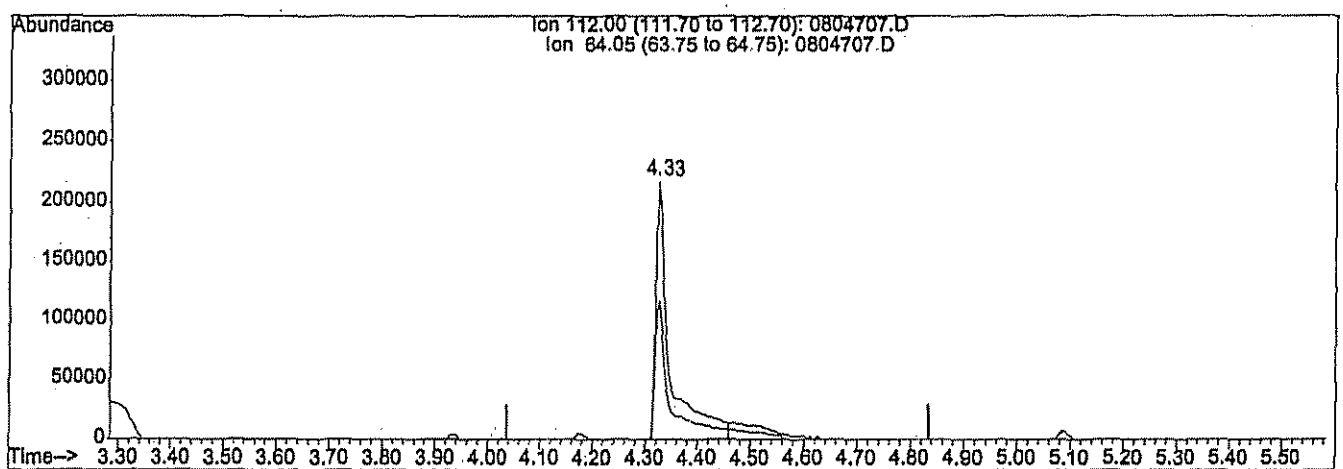
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	54.73
0.00	0.00	0.00
0.00	0.00	0.00

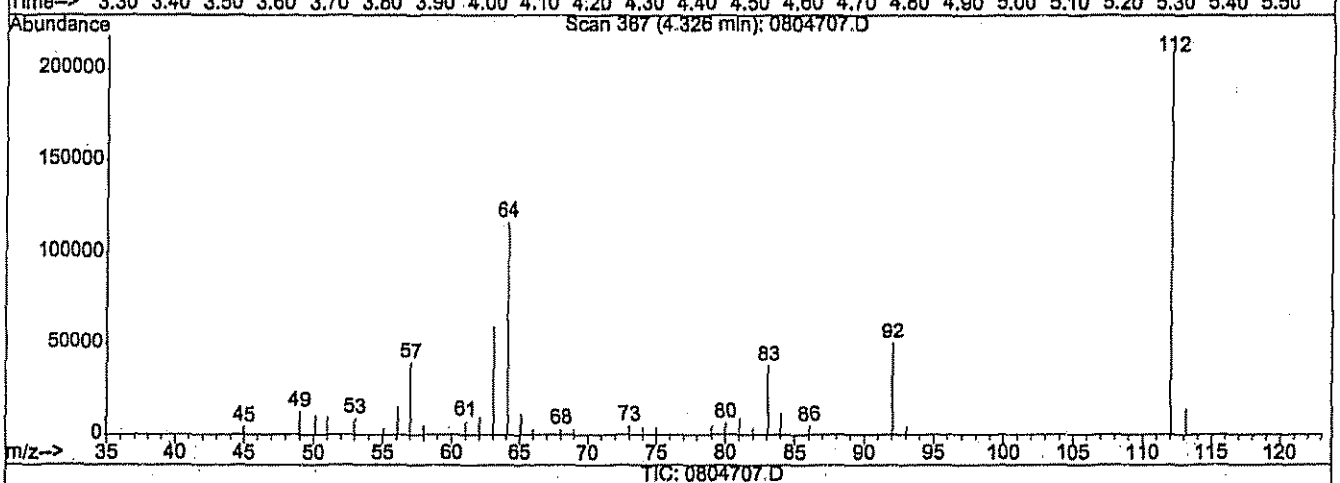
0804707.D 8270.M Thu Aug 04 14:20:23 2005 ENV

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





TIC: 0804707.D

(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

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

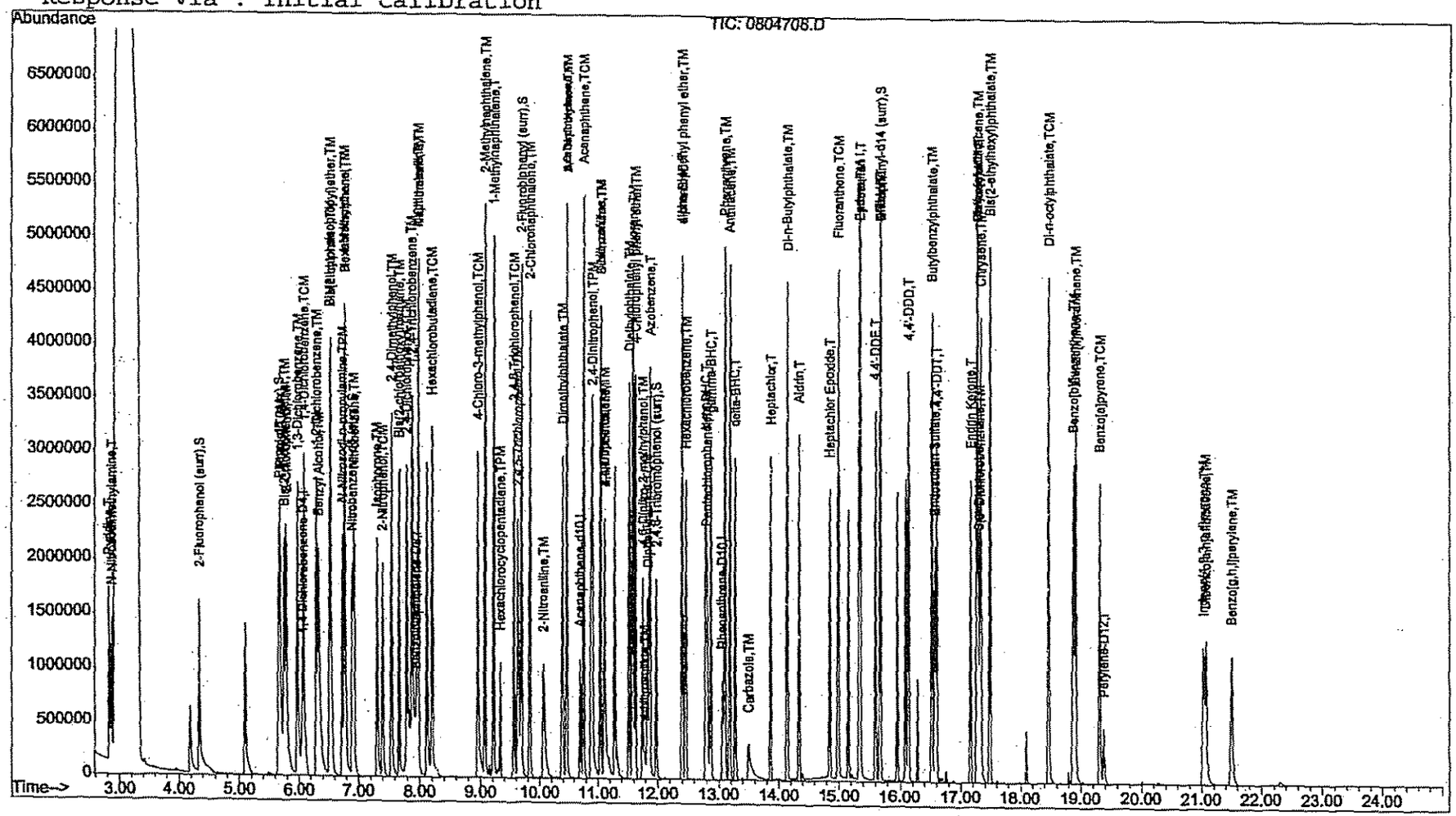
Quantitation Report (QT Reviewed)

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



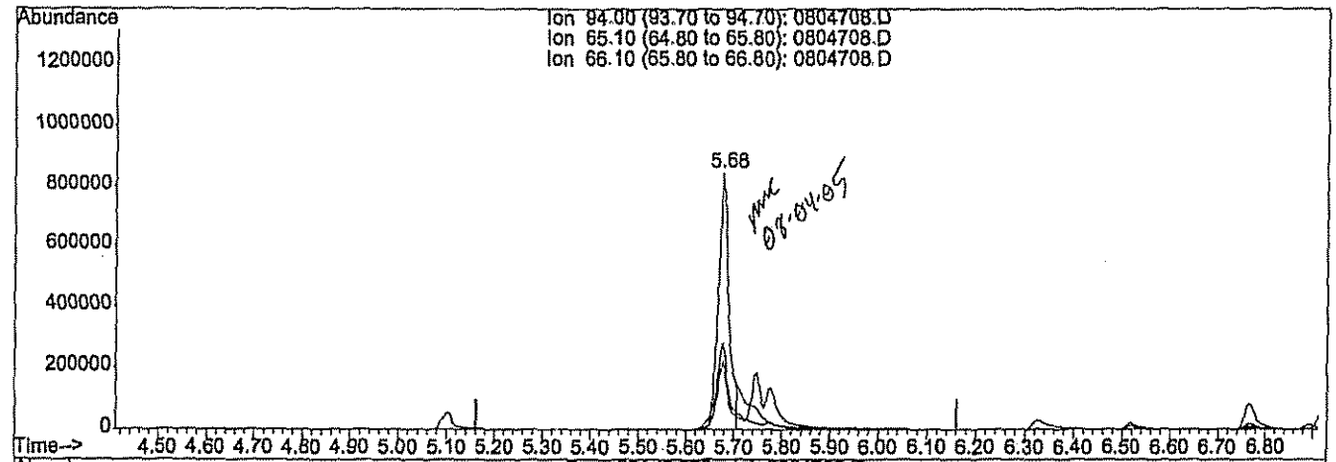
0804708.D 8270.M Thu Aug 04 14:35:45 2005 ENV

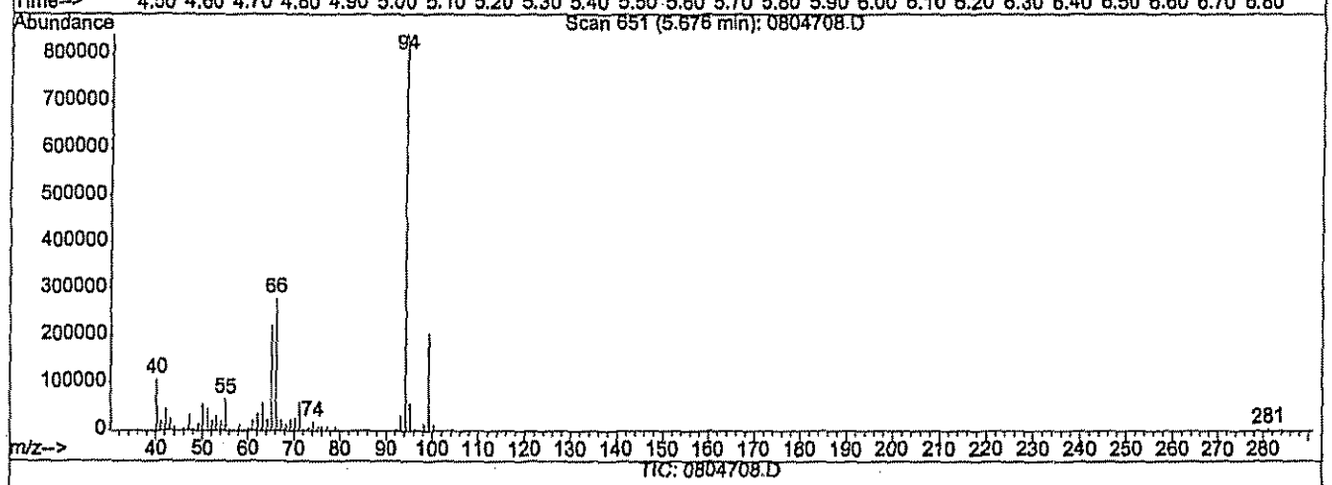
Page 4

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

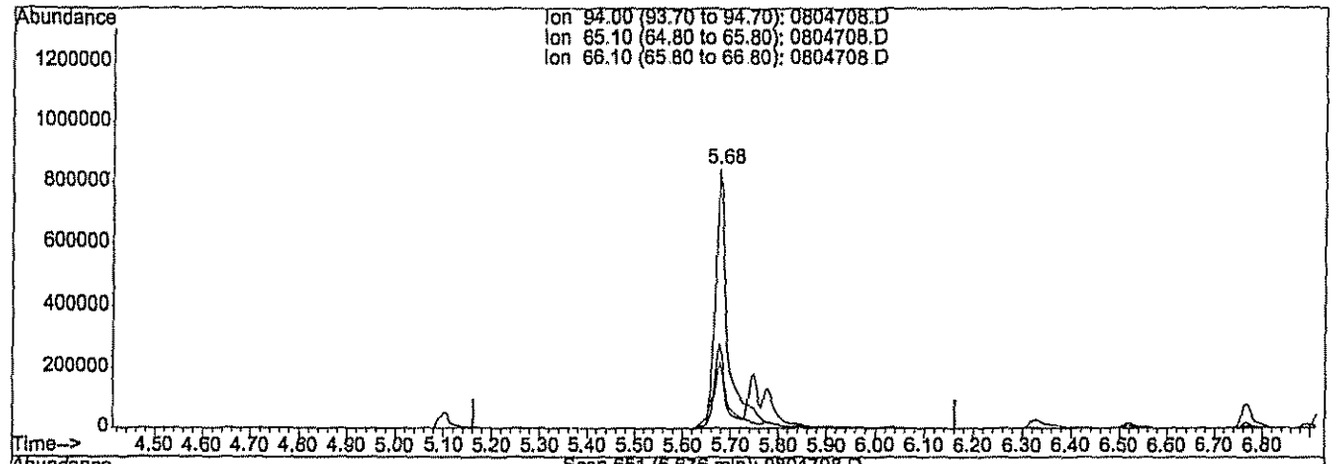
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	28.22
66.10	33.90	33.11
0.00	0.00	0.00

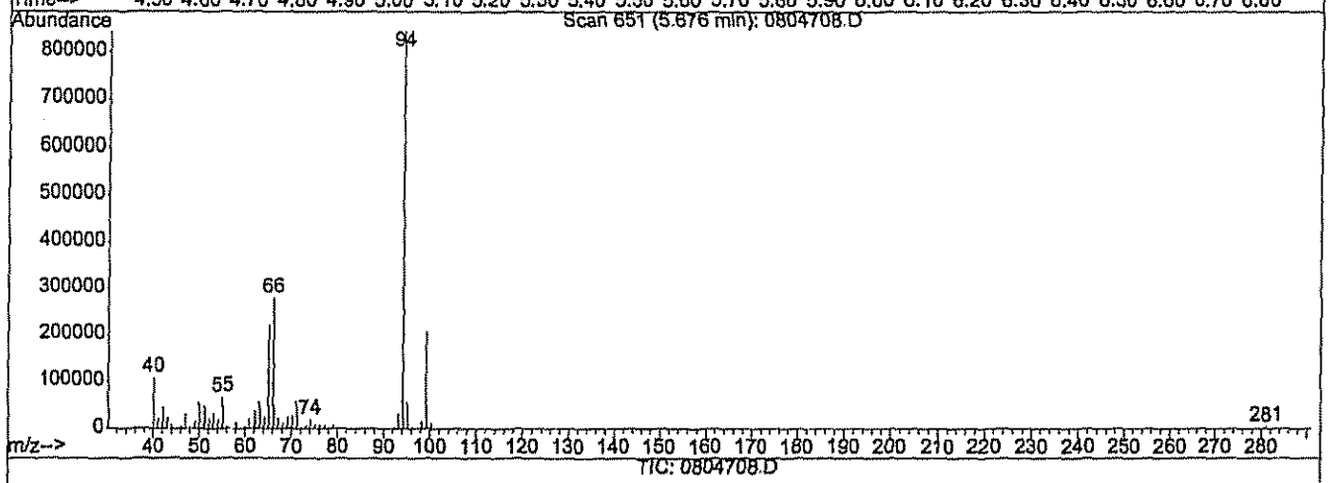
0804708.D 8270.M Thu Aug 04 14:25:24 2005 ENV

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





TIC: 0804708.D

(4) Phenol (TCM)

5.68min 36.85ug/mL

response 1635985

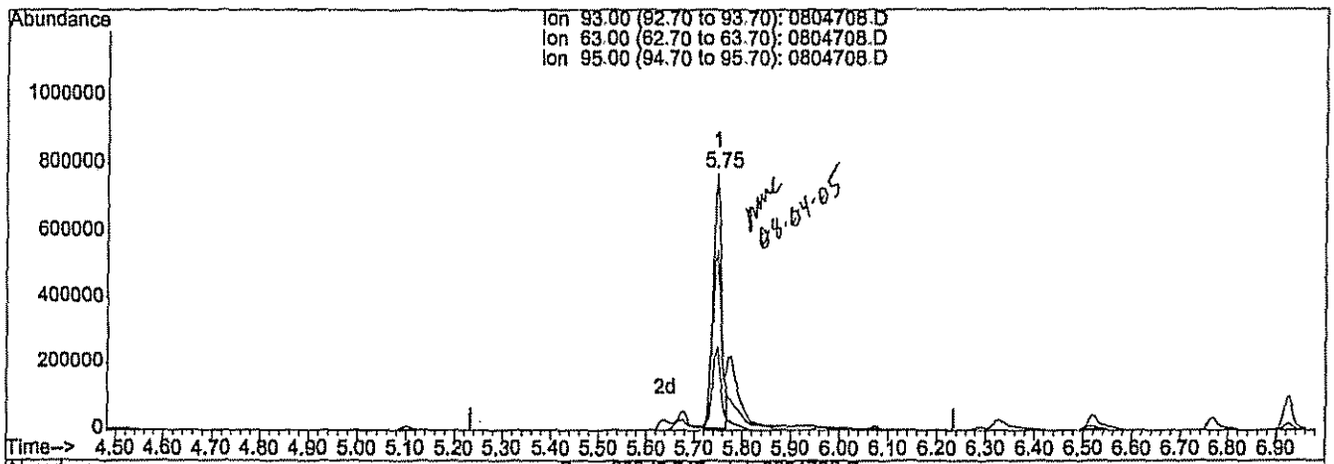
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.22
66.10	33.90	32.68
0.00	0.00	0.00

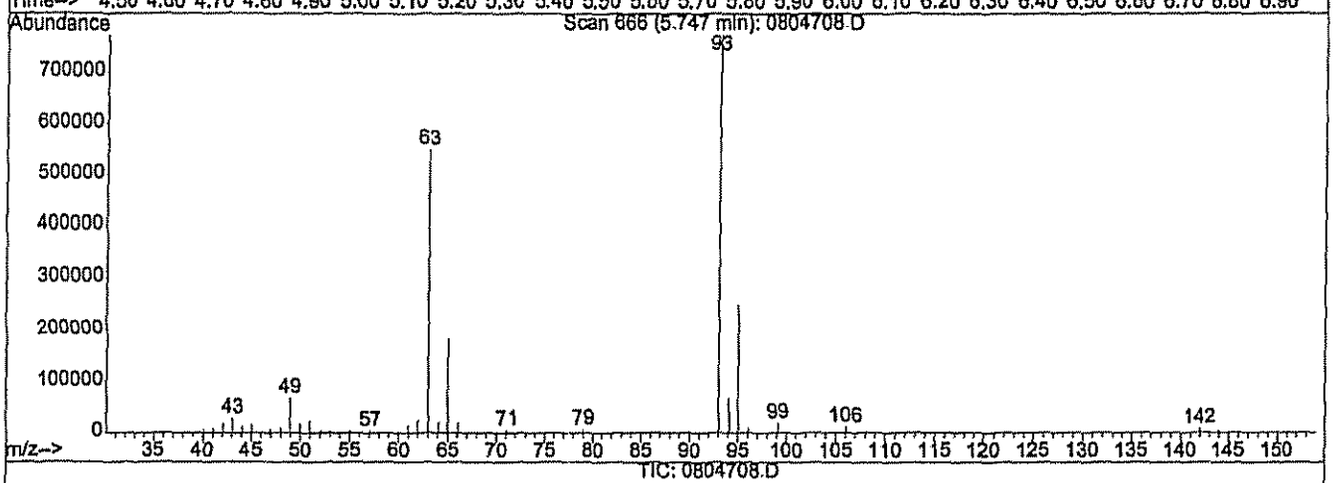
0804708.D 8270.M Thu Aug 04 14:25:20 2005 ENV

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

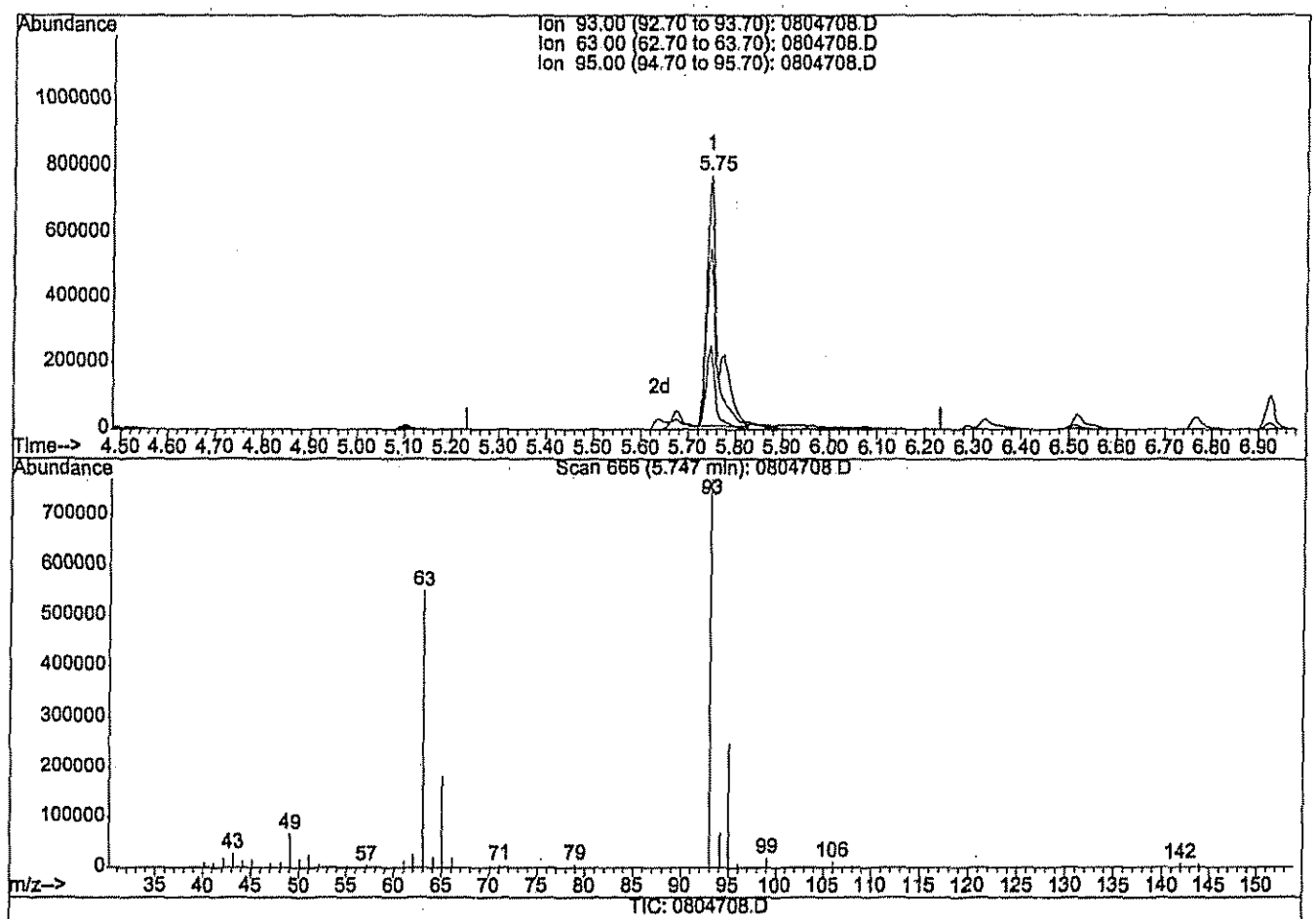
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	71.24
95.00	32.20	32.47
0.00	0.00	0.00

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

mc 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

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

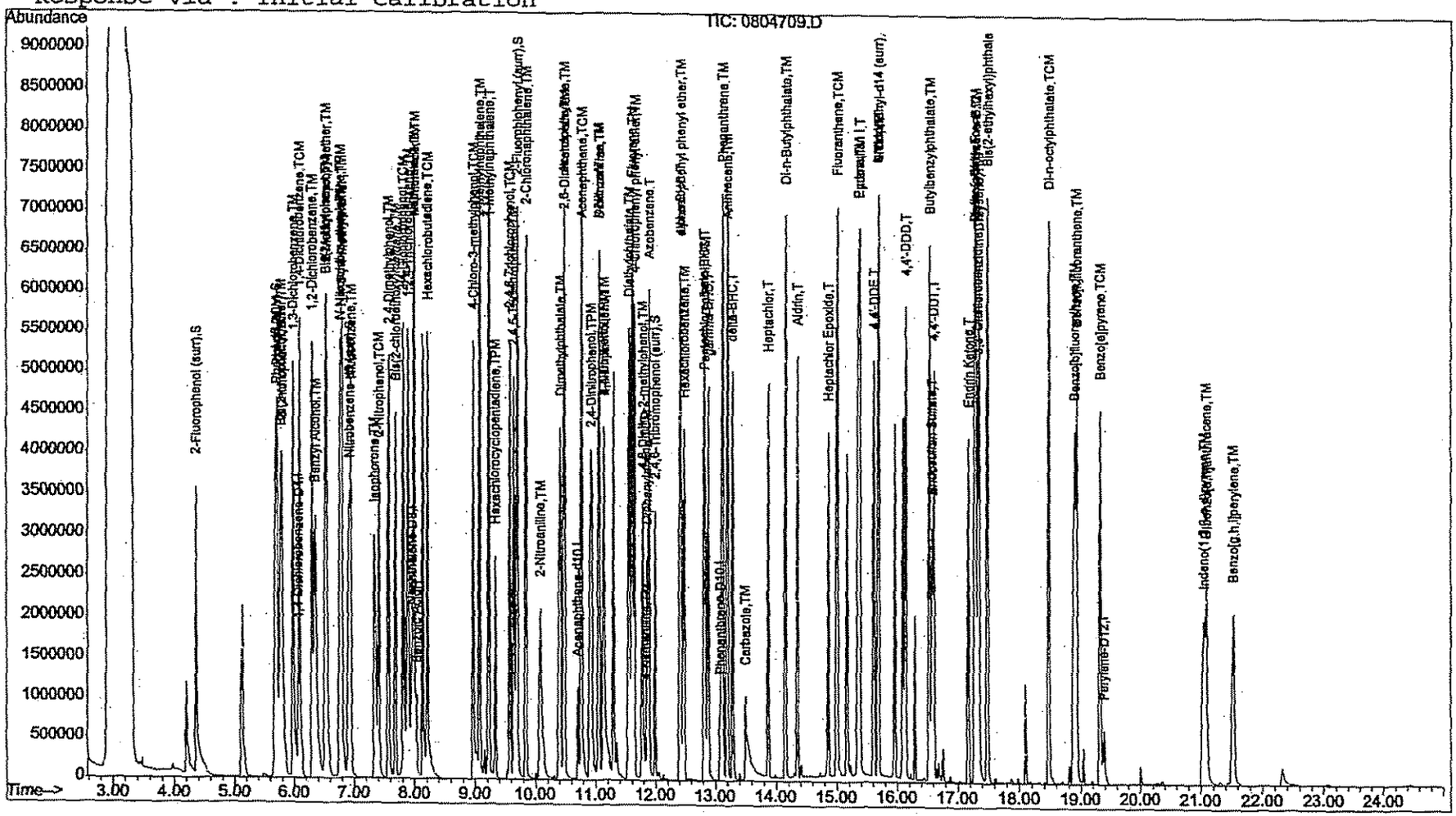
Quantitation Report (QT Reviewed)

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



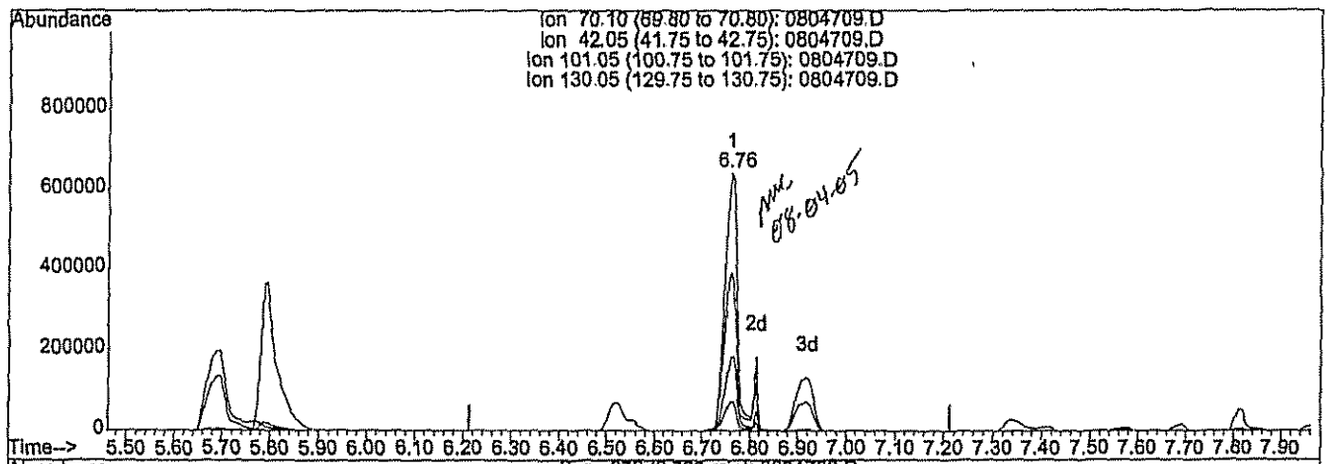
0804709.D 8270.M Thu Aug 04 14:35:52 2005 ENV

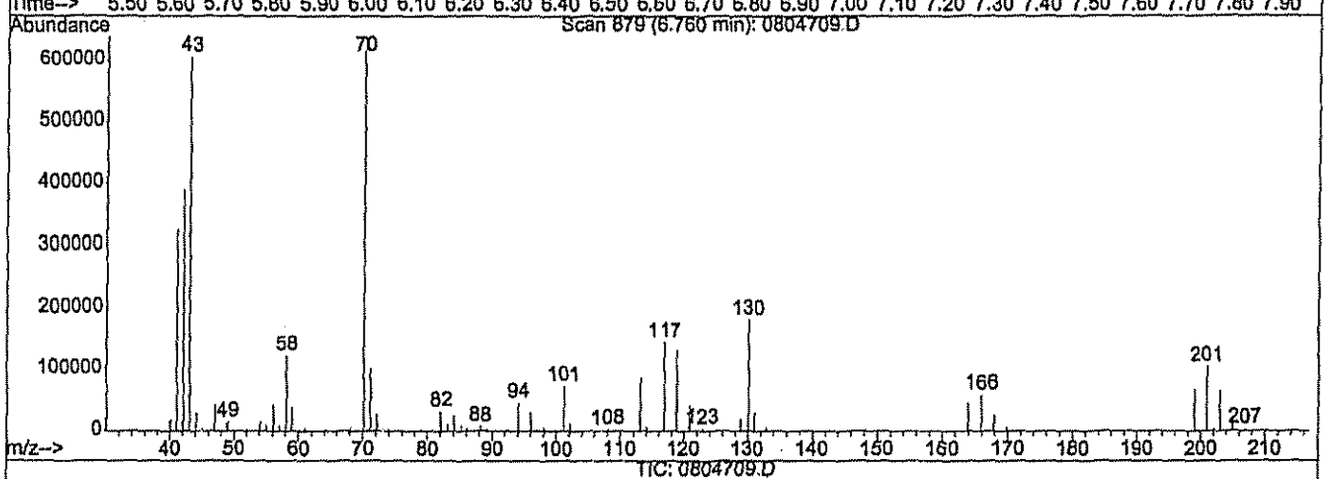
Page 4

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

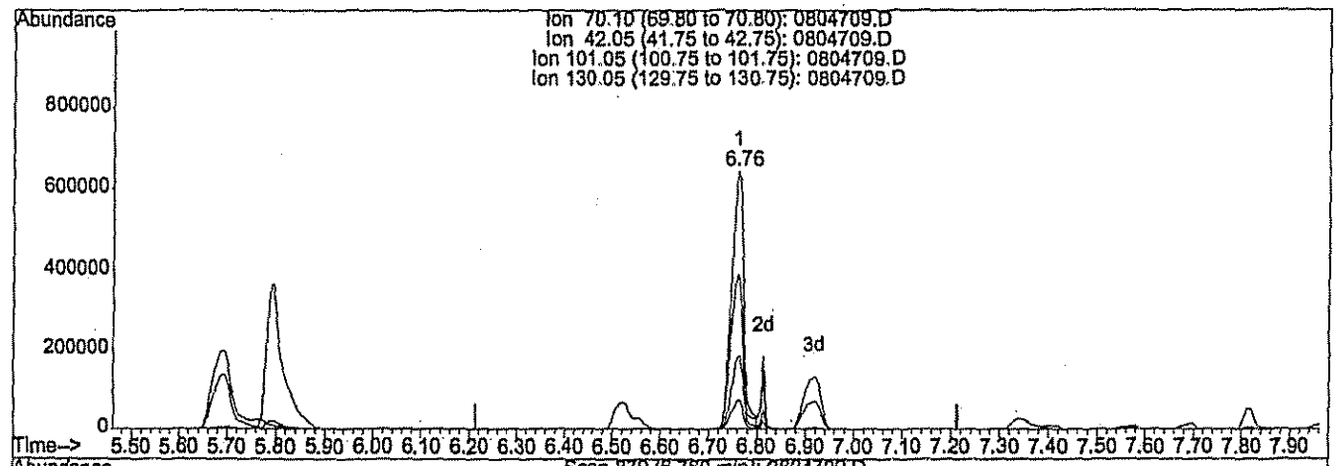
Ion	Exp%	Act%
70.10	100	100
42.05	65.10	60.92
101.05	10.60	11.36
130.05	26.20	28.33

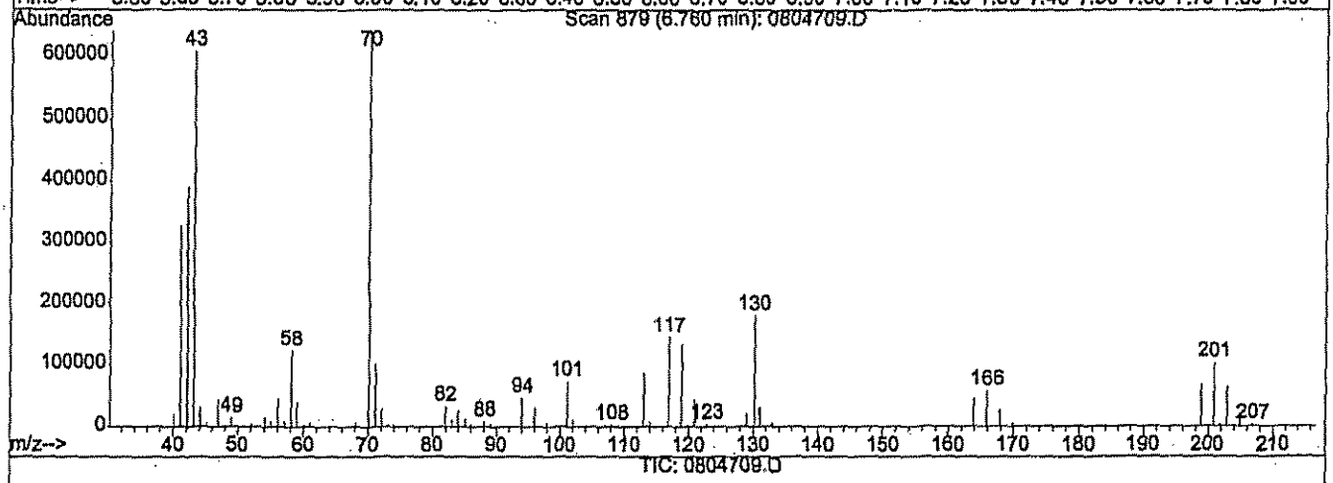
0804709.D 8270.M Thu Aug 04 14:28:39 2005 ENV

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

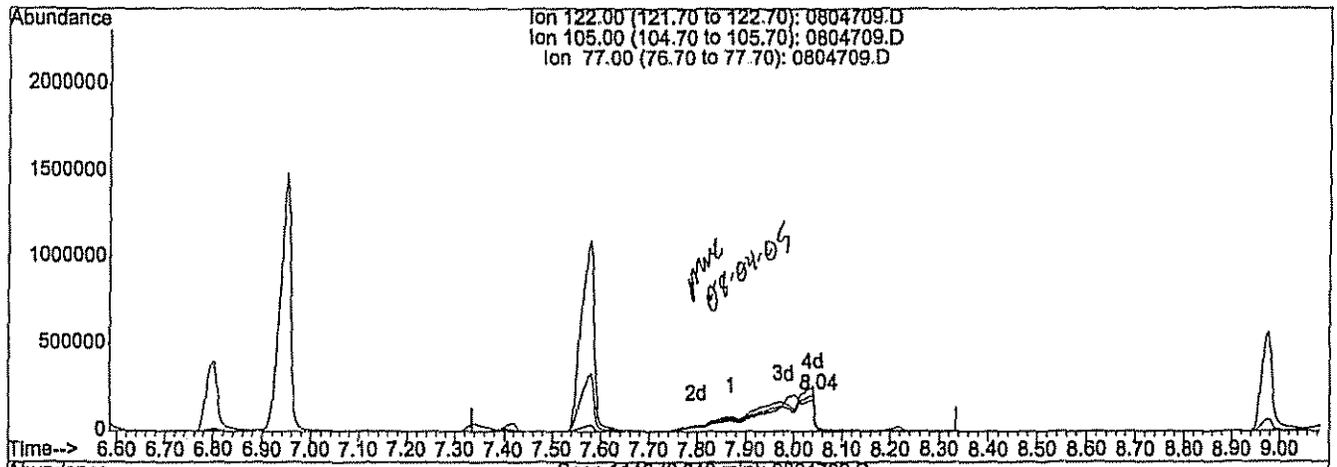
0804709.D 8270.M Thu Aug 04 14:28:35 2005 ENV

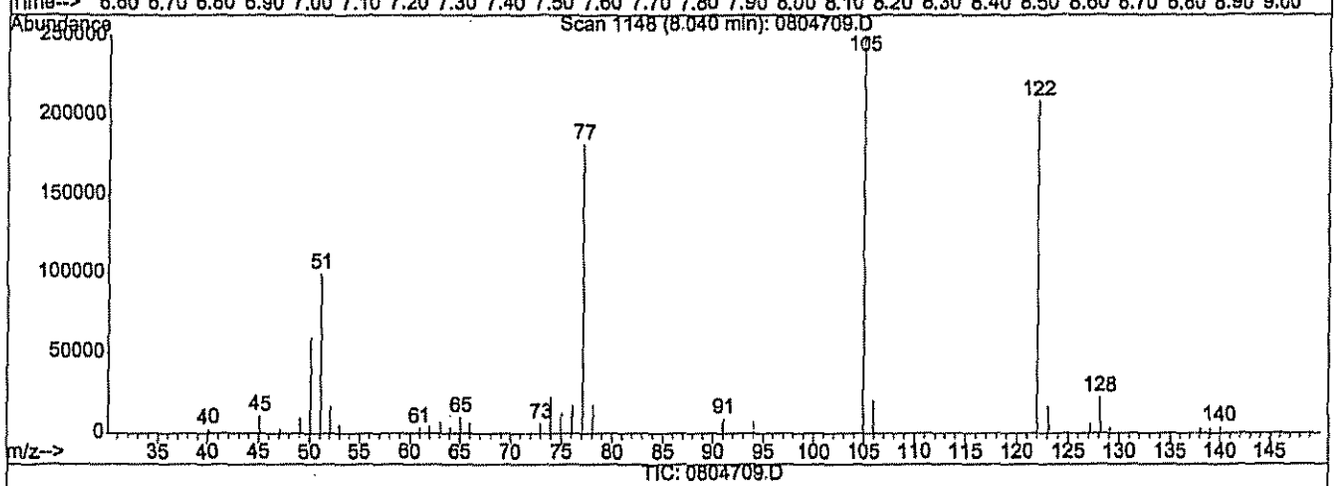
PARADIGM ANALYTICAL LABORATORIES, INC.

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

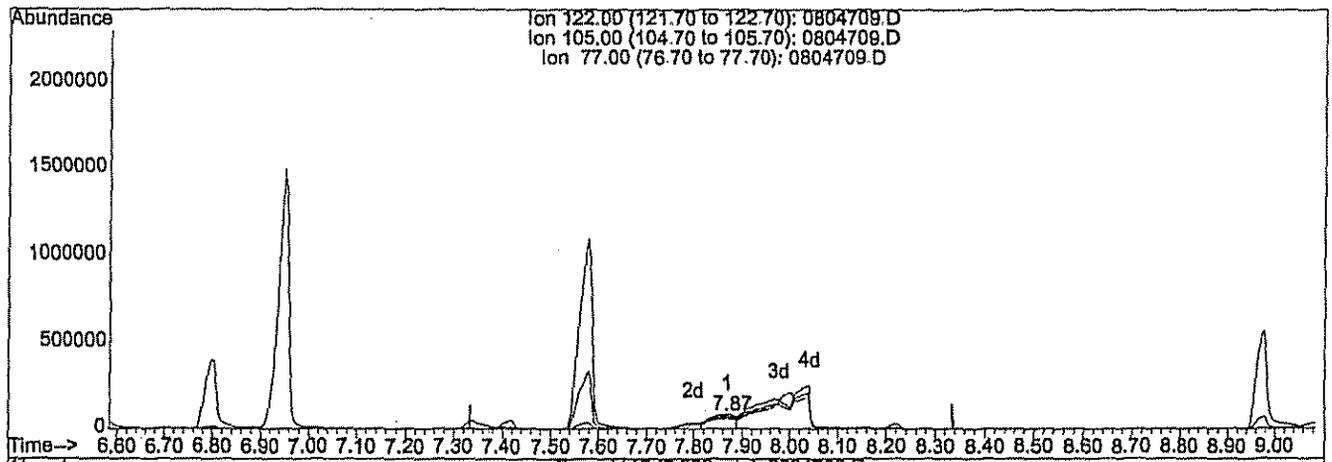
Ion	Exp%	Act%
122.00	100	100
105.00	120.20	18.02#
77.00	88.40	6.55#
0.00	0.00	0.00

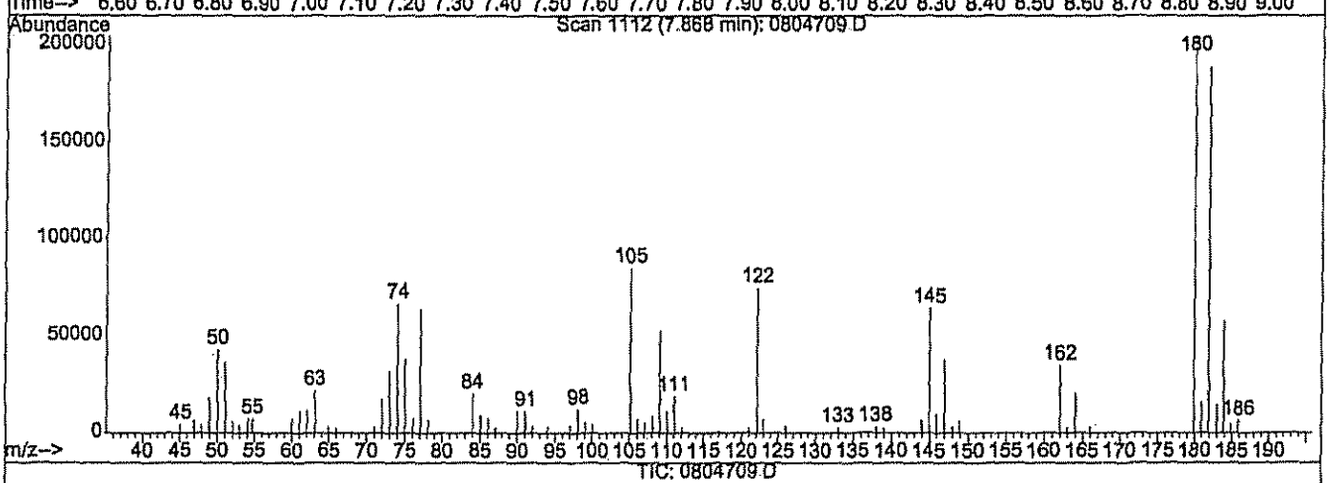
0804709.D 8270.M Thu Aug 04 14:28:50 2005 ENV

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:\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 08/10/05

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

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 : SVQVS6 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

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

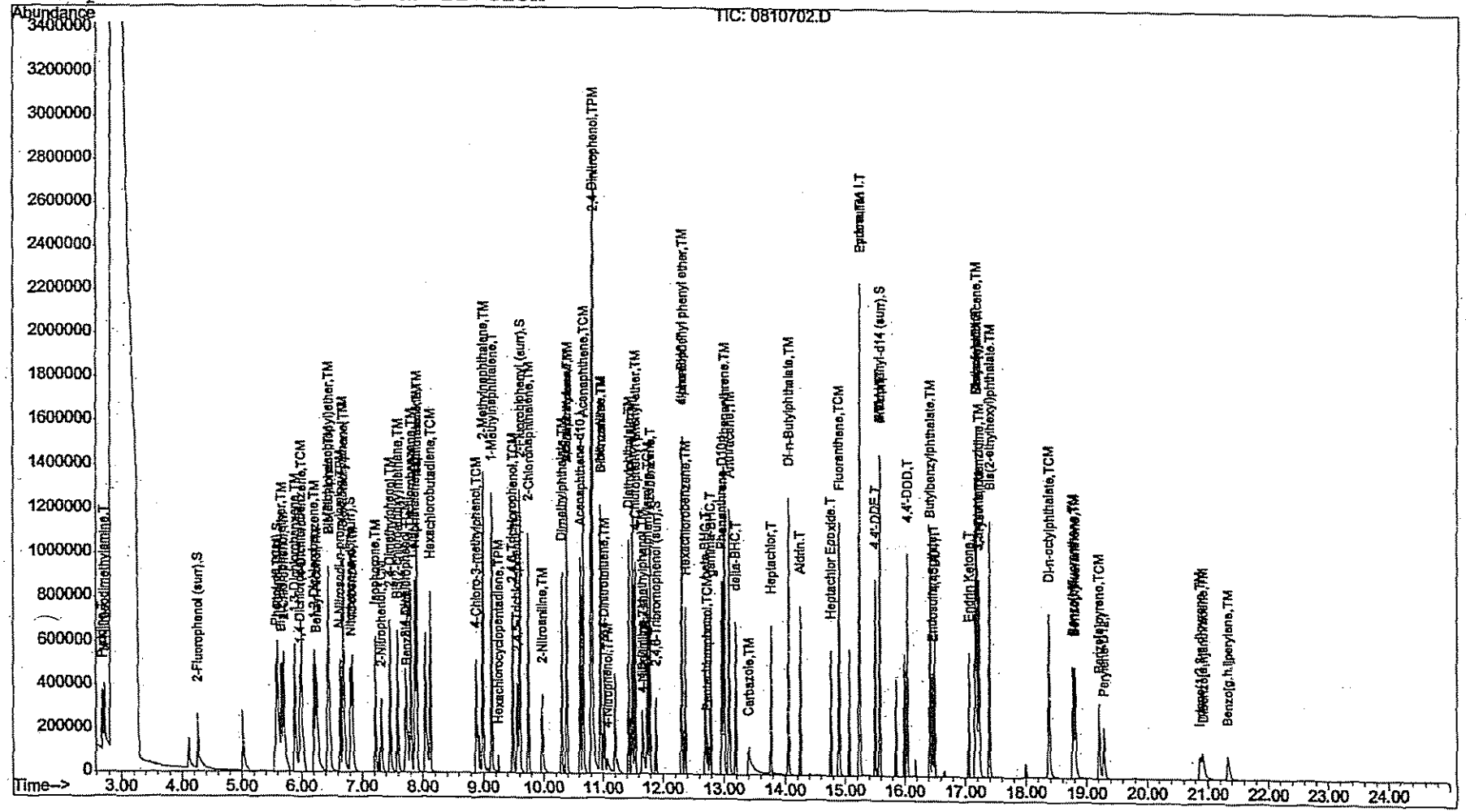
Quantitation Report (QT Reviewed)

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

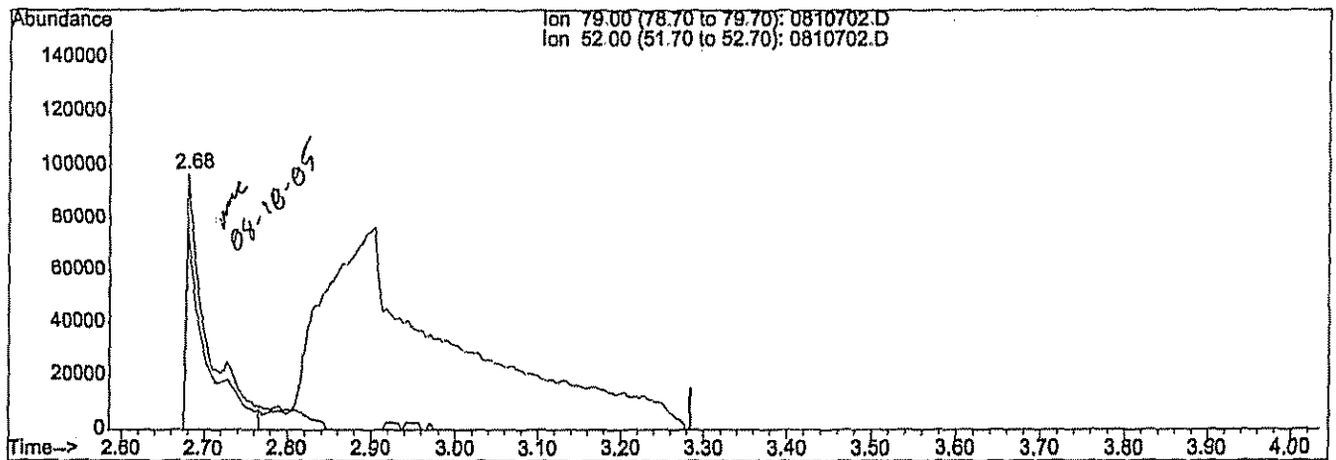
Method : C:\MSDCHEM\1\DATA\7081005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Thu Aug 04 14:33:48 2005
Response via : Initial Calibration



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

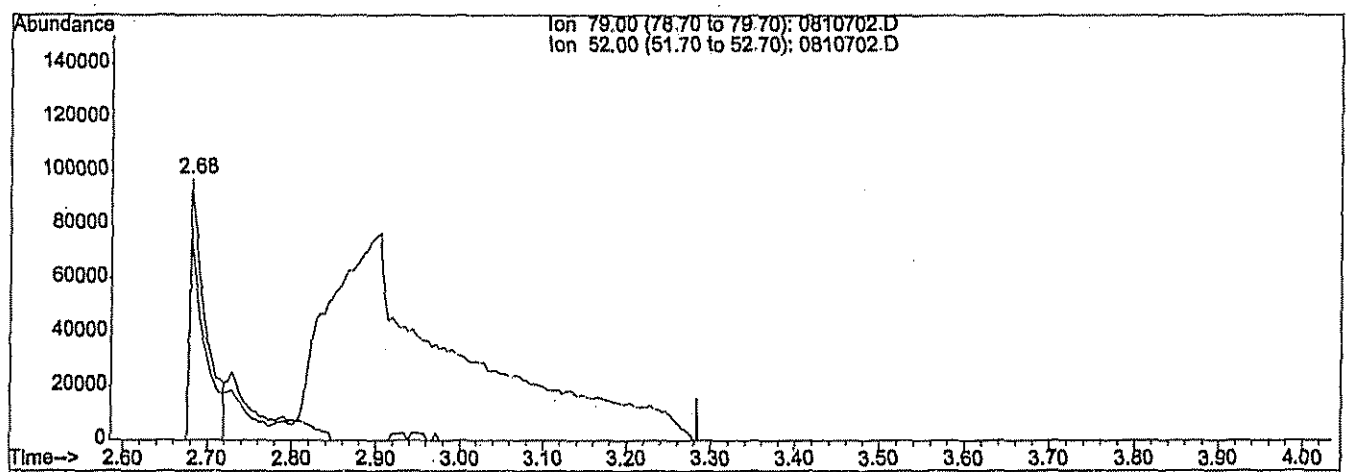
Ion	Exp%	Act%
79.00	100	100
52.00	76.70	57.16#
0.00	0.00	0.00
0.00	0.00	0.00

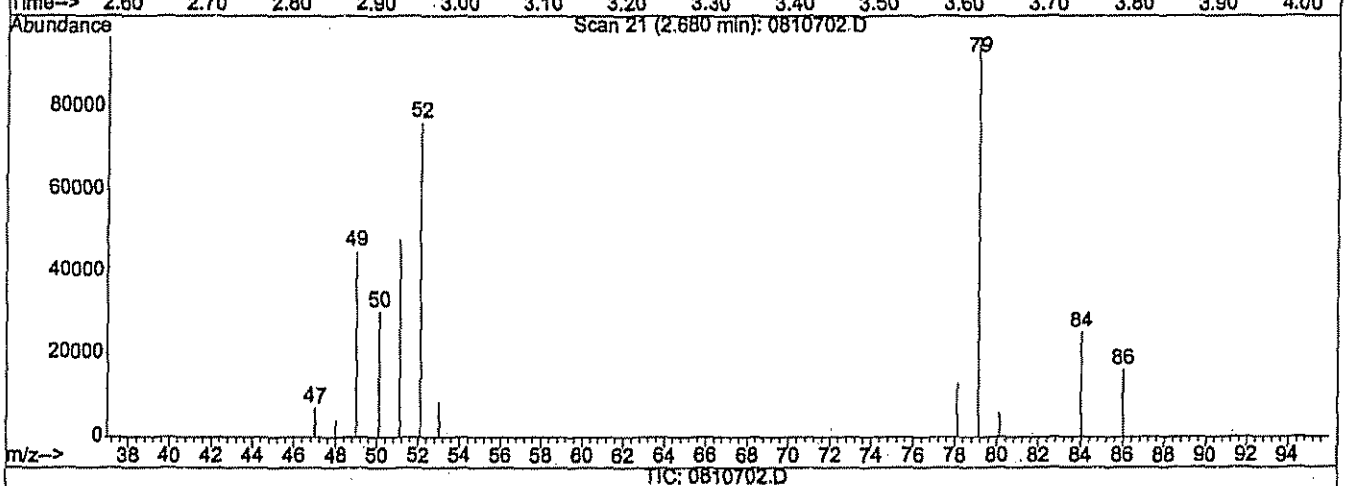
0810702.D 8270.M Wed Aug 10 11:33:26 2005 ENV

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

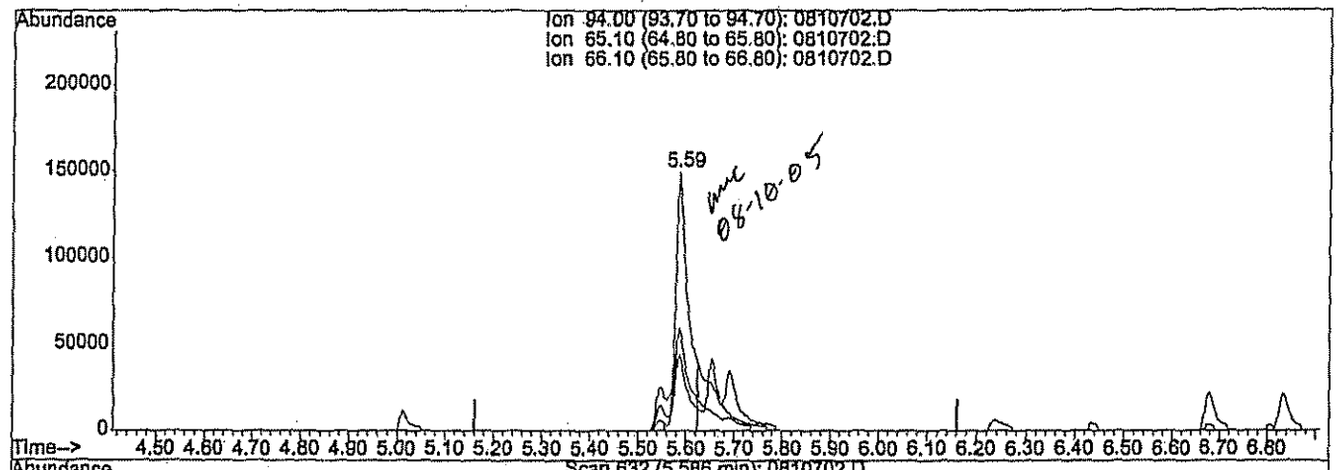
Ion	Exp%	Act%
79.00	100	100
52.00	76.70	78.09
0.00	0.00	0.00
0.00	0.00	0.00

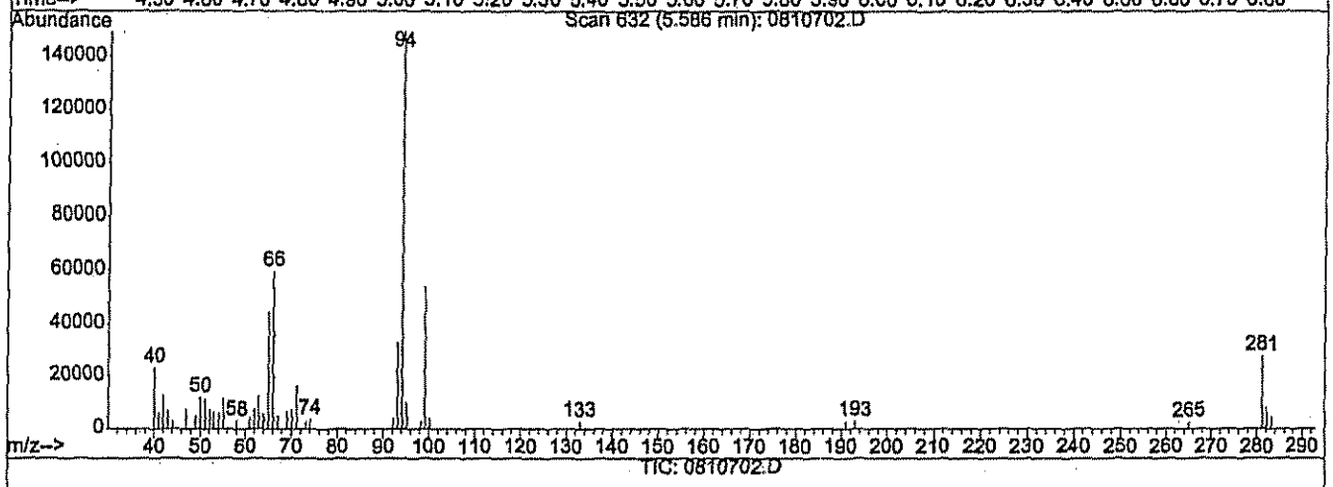
0810702.D 8270.M Wed Aug 10 11:33:21 2005 ENV

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





TIC: 0810702.D

(4) Phenol (TCM)

5.59min 6.87ug/mL m

response 271047

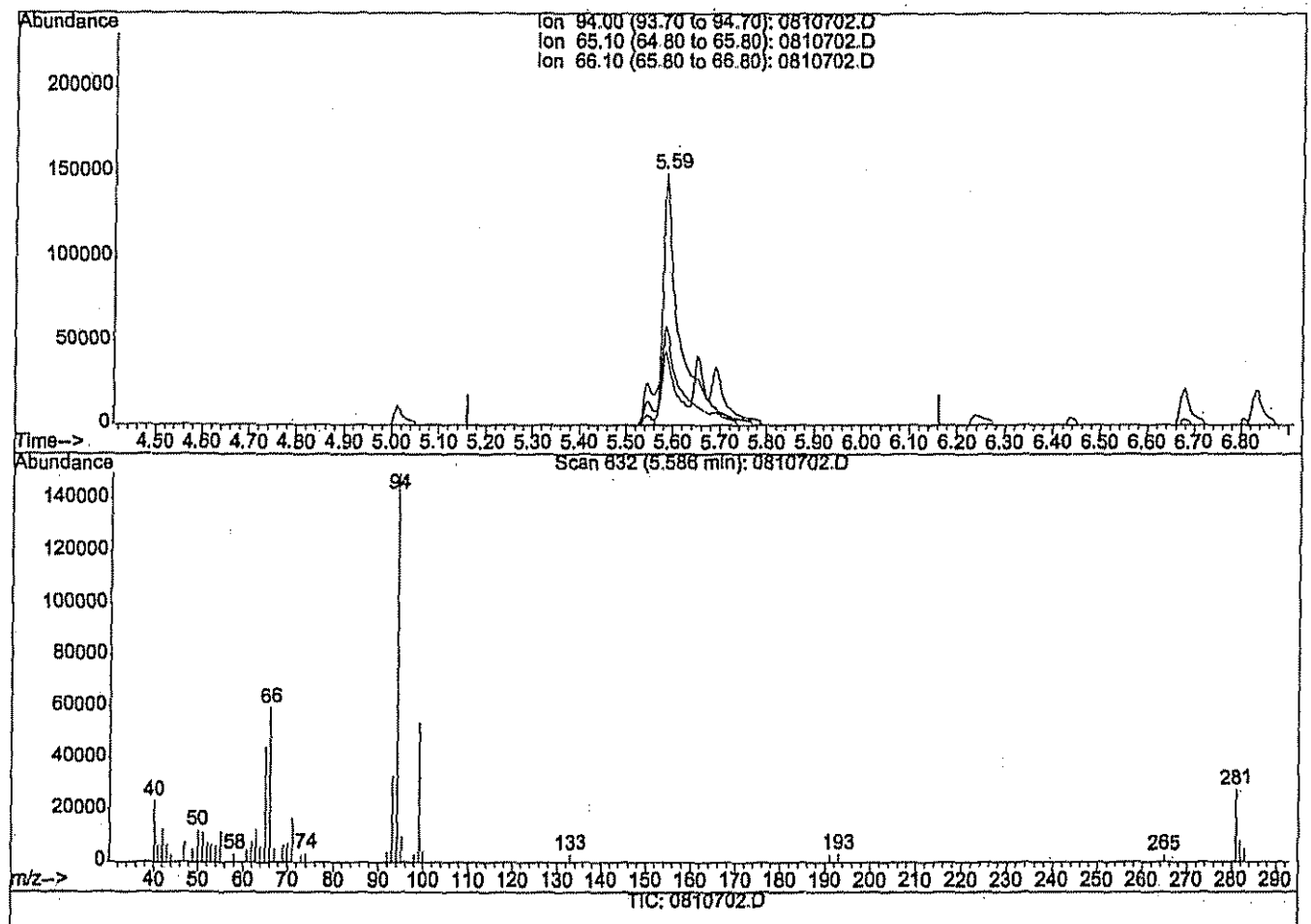
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	29.88
66.10	33.90	39.86
0.00	0.00	0.00

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

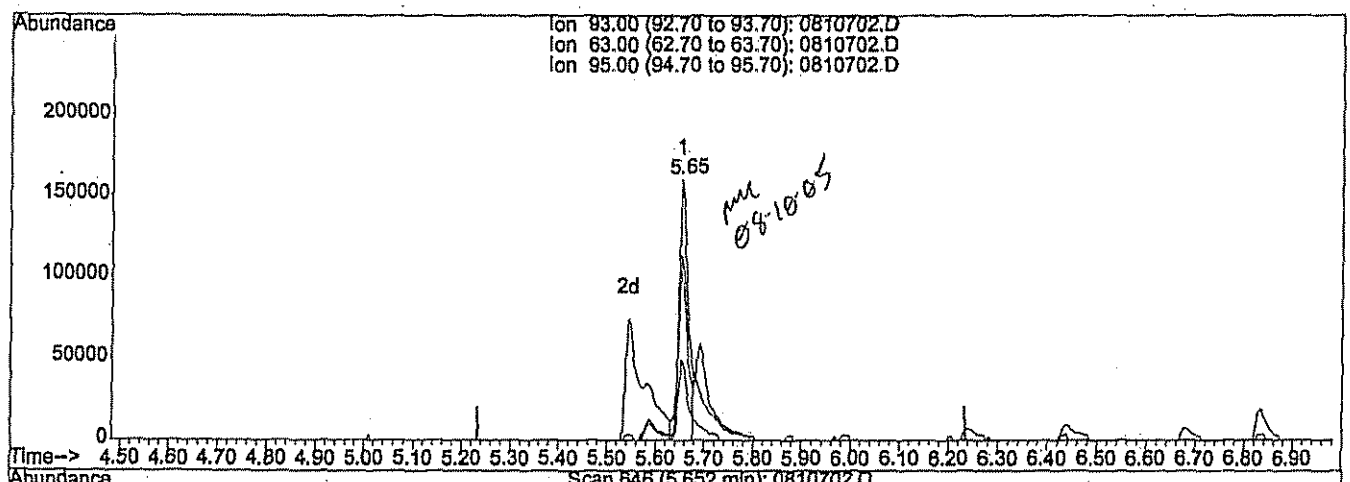
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.58
66.10	33.90	39.86
0.00	0.00	0.00

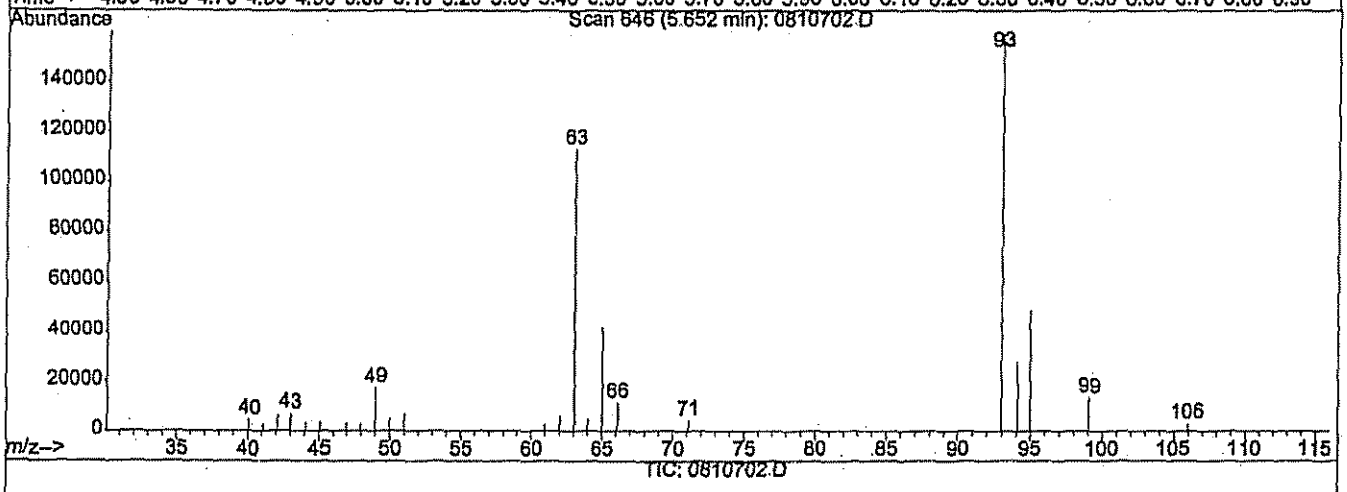
0810702.D 8270.M Wed Aug 10 11:33:31 2005 ENV

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

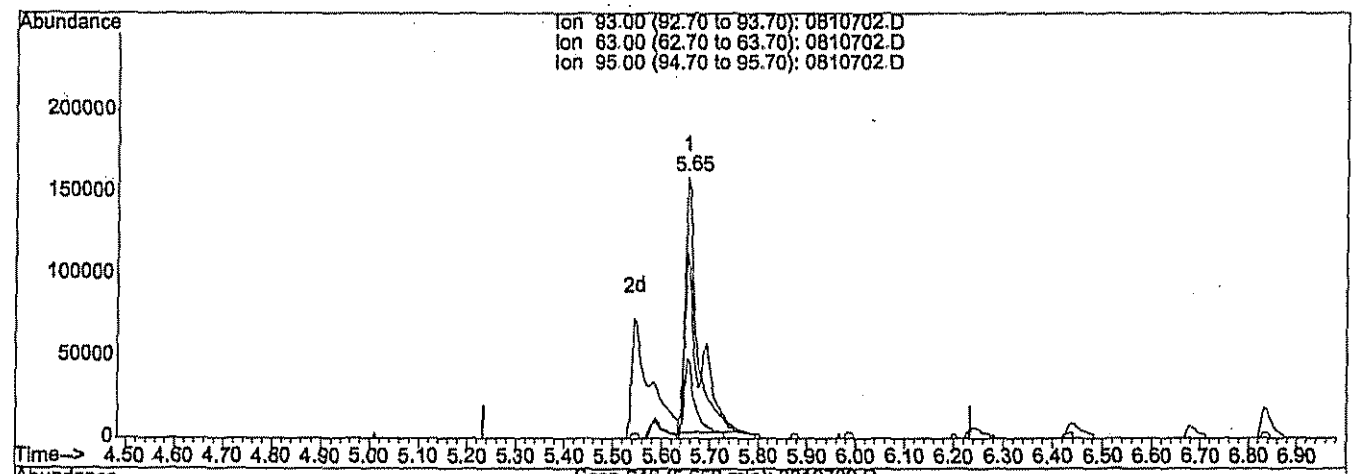
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.57
95.00	32.20	30.42
0.00	0.00	0.00

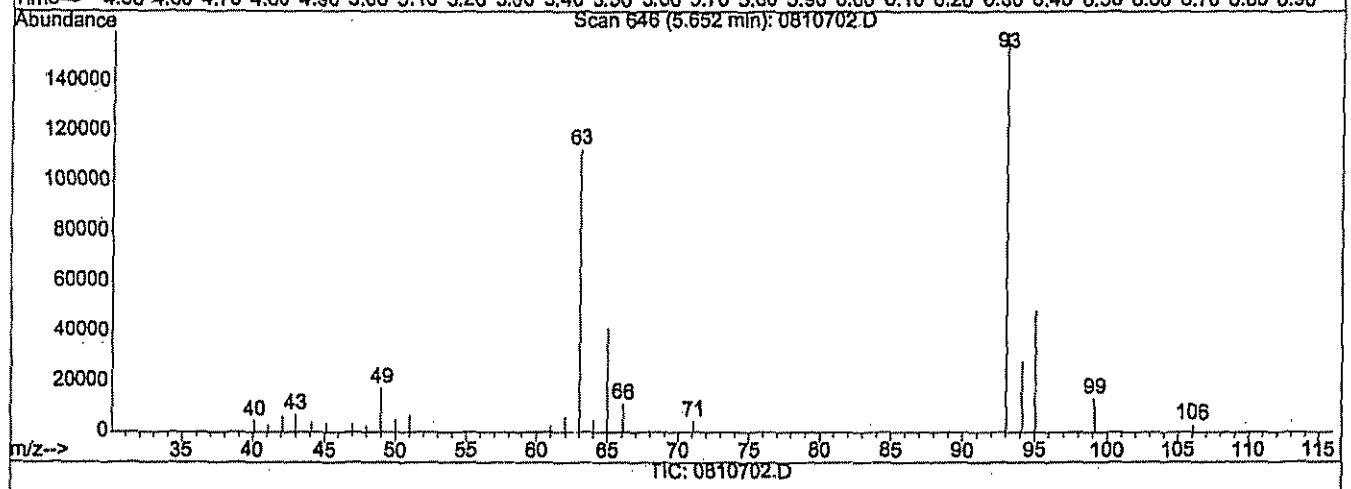
0810702.D 8270.M Wed Aug 10 11:33:53 2005 ENV

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





TIC: 0810702.D

(5) Bis(2-chloroethyl)ether (TM)

5.65min 7.59ug/mL

response 265500

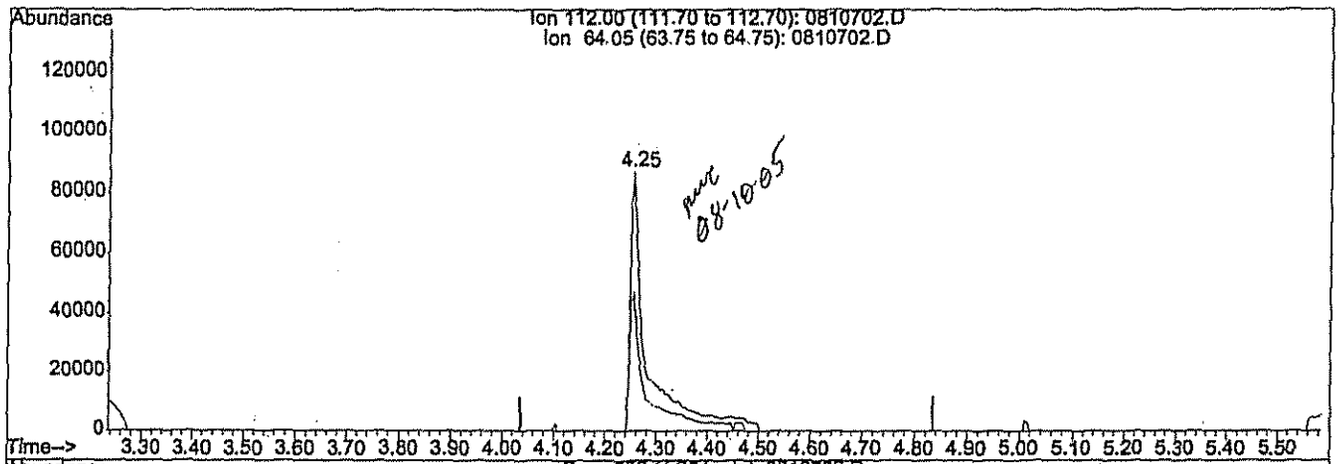
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.53
95.00	32.20	31.17
0.00	0.00	0.00

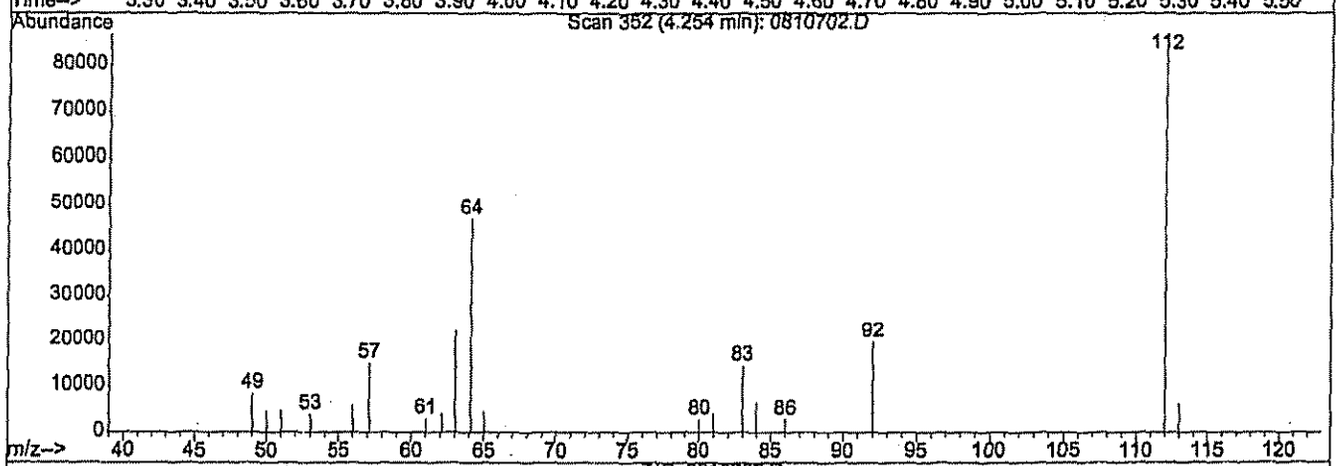
0810702.D 8270.M Wed Aug 10 11:33:44 2005 ENV

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

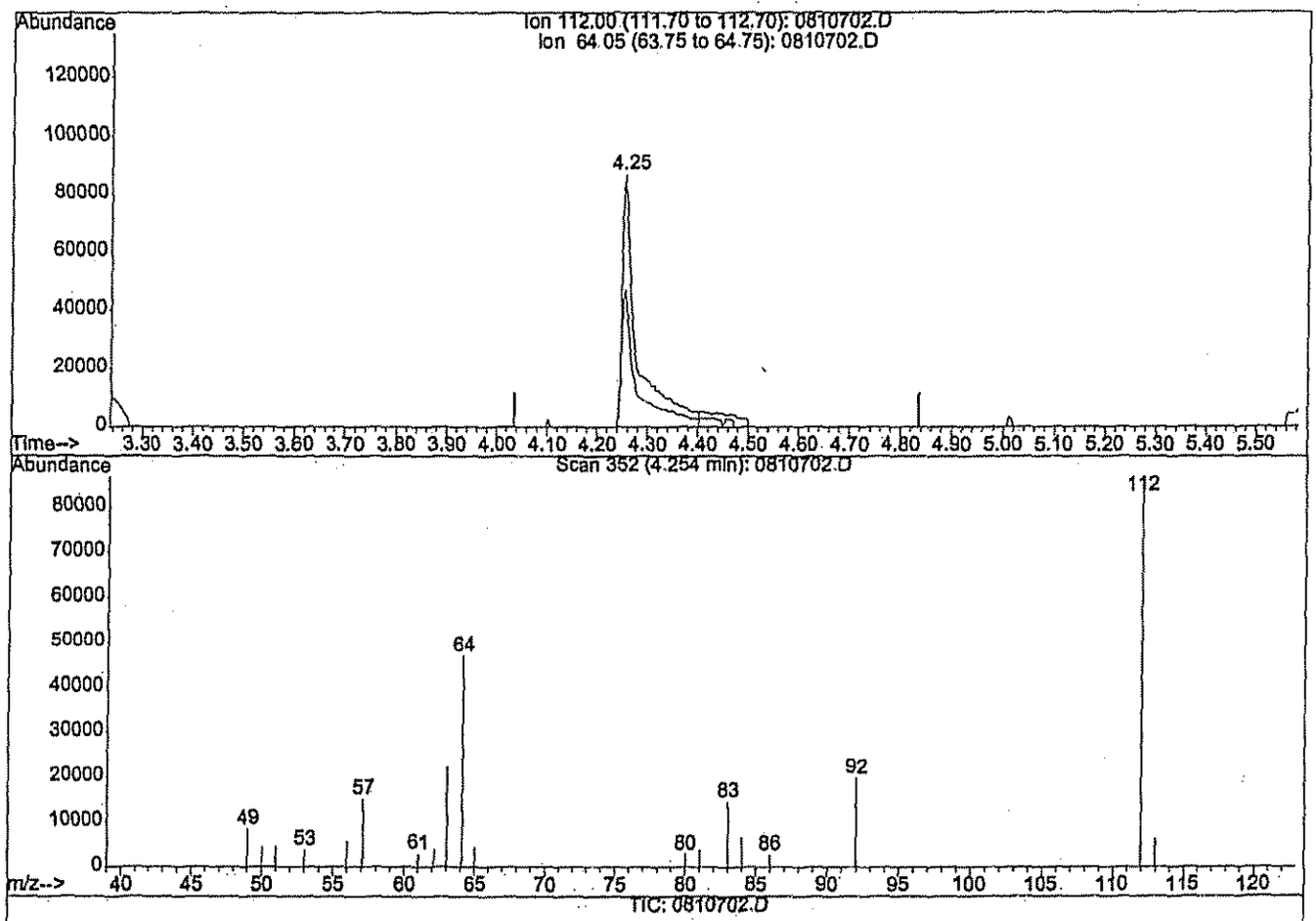
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	48.88
0.00	0.00	0.00
0.00	0.00	0.00

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

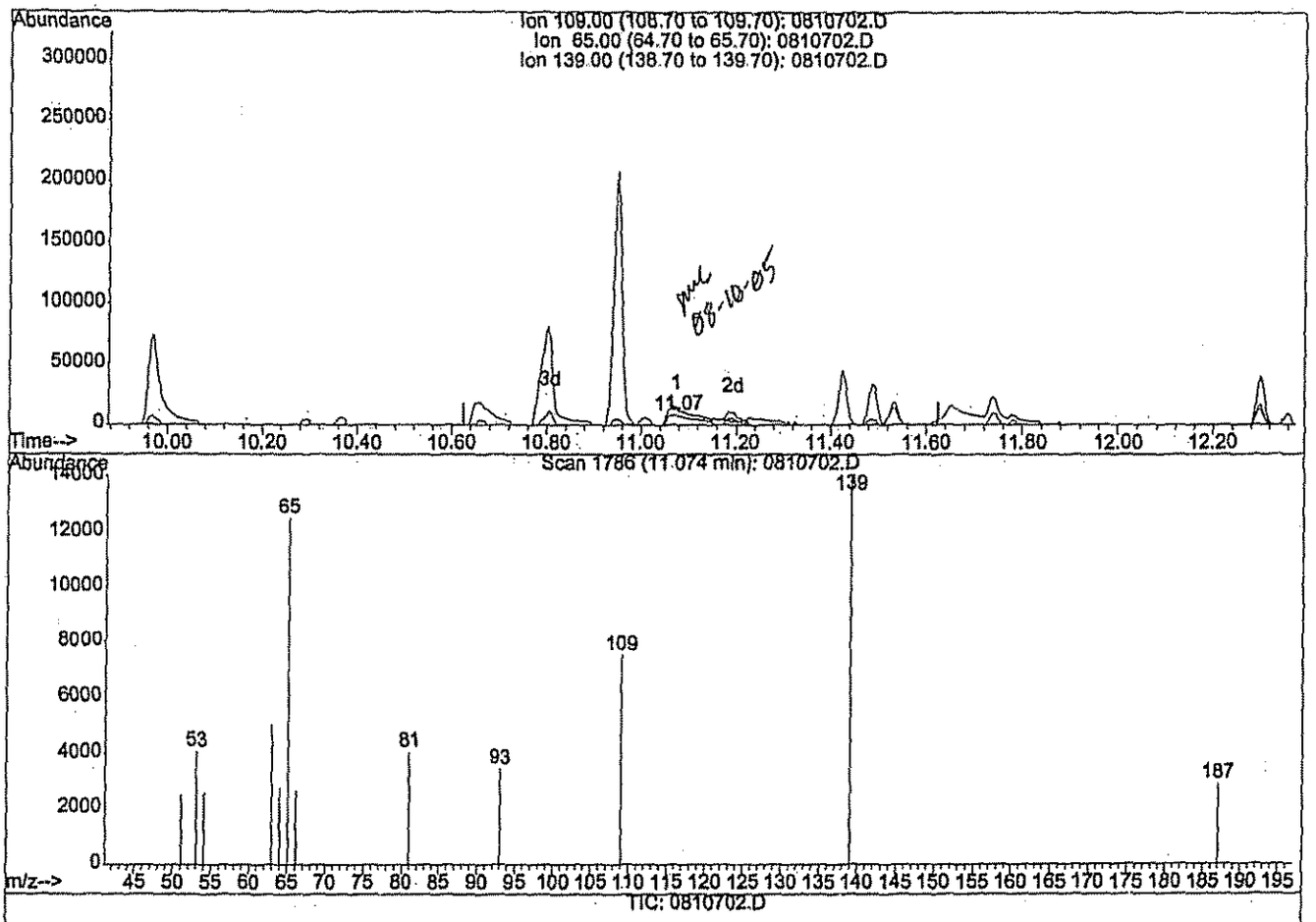
Ion	Exp%	Act%
112.00	100	100
64.05	48.80	55.20
0.00	0.00	0.00
0.00	0.00	0.00

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



(46) 4-Nitrophenol (TPM)

11.07min 5.54ug/ml m

response 30317

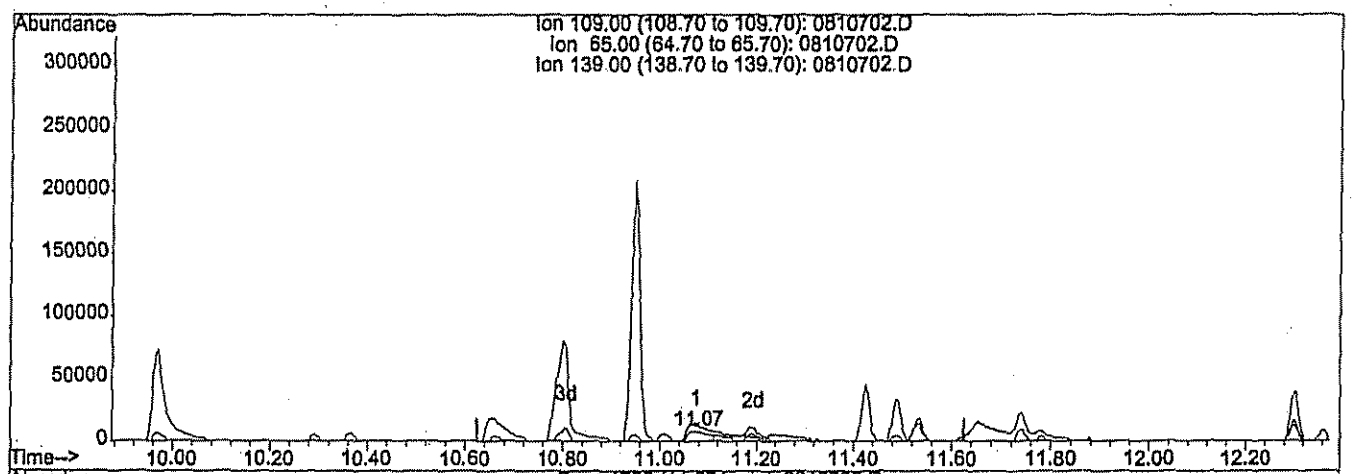
Ion	Exp%	Act%
109.00	100	100
65.00	139.50	165.74
139.00	187.40	186.17
0.00	0.00	0.00

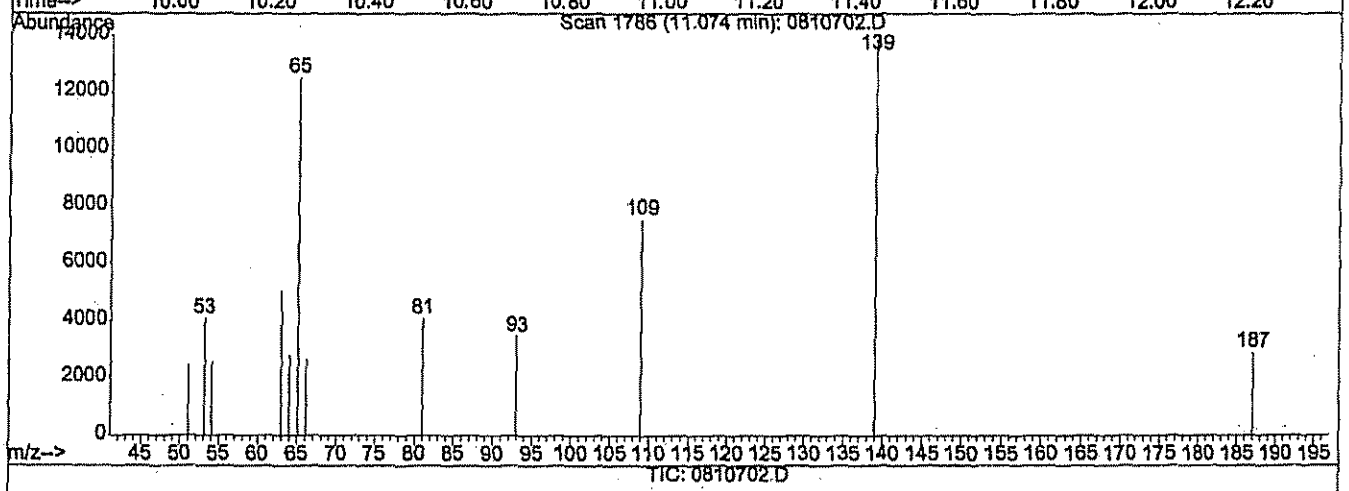
0810702.D 8270.M Wed Aug 10 11:35:14 2005 ENV

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

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

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

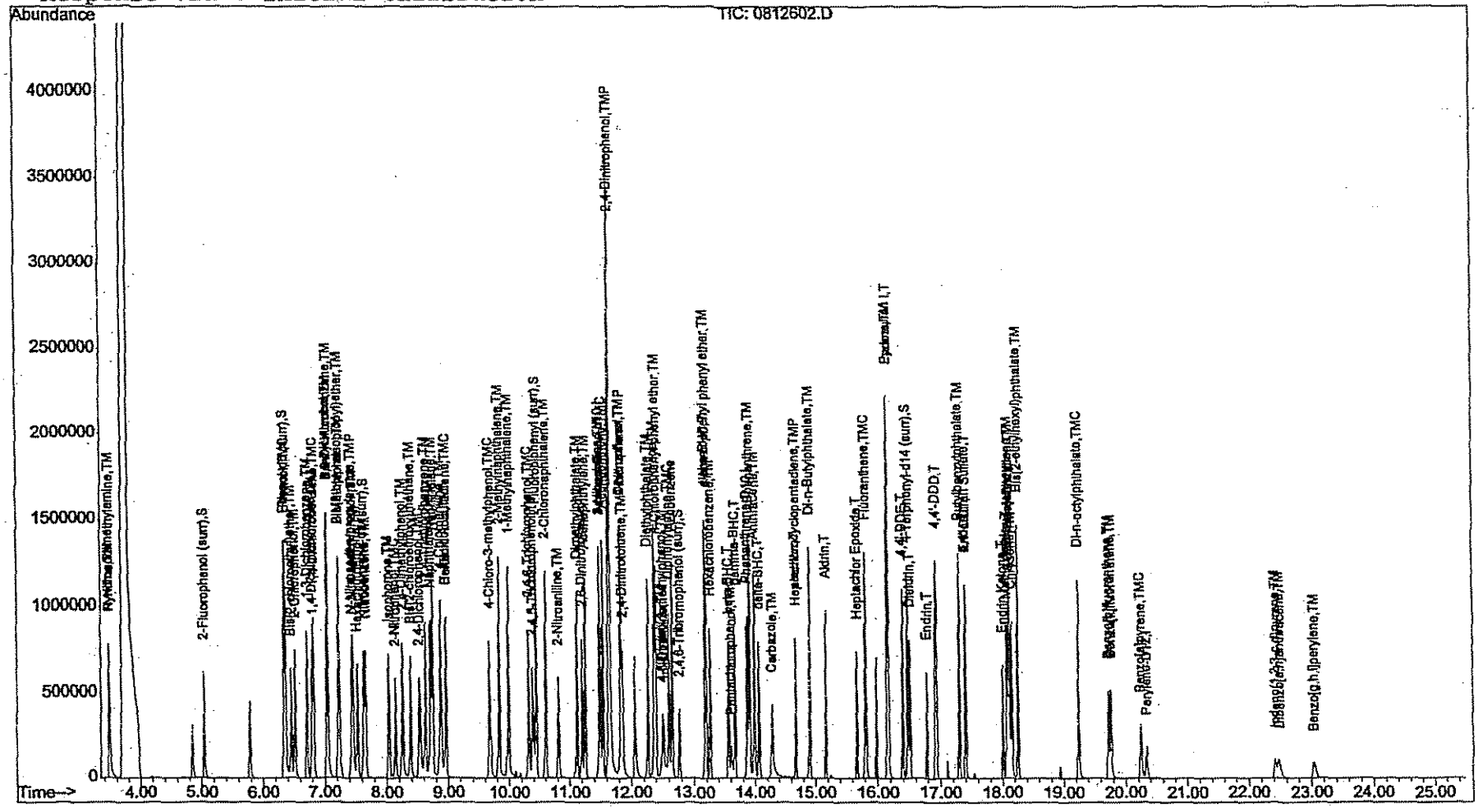
	Compound	R.T.	QIon	Response	Conc Units	Qvalue
71)	Heptachlor	14.68	100	123467	6.04 ug/mL	95
72)	Aldrin	15.17	66	139790	6.39 ug/mL	93
73)	Heptachlor Epoxide	15.67	353	41694	5.57 ug/mL	96
74)	Endosulfan I	16.16	195	32761	5.94 ug/mL	95
75)	4,4'-DDE	16.40	246	194846	6.10 ug/mL	100
76)	Dieldrin	16.51	79	177177	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

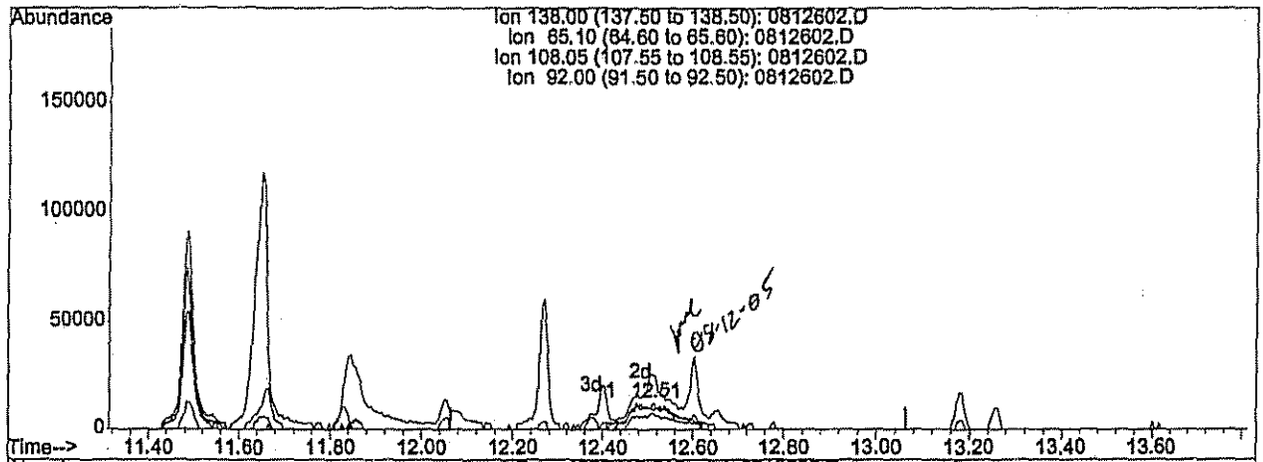
Method : C:\HPCHEM\1\DATA\6081205\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Aug 03 08:46:00 2005
Response via : Initial Calibration

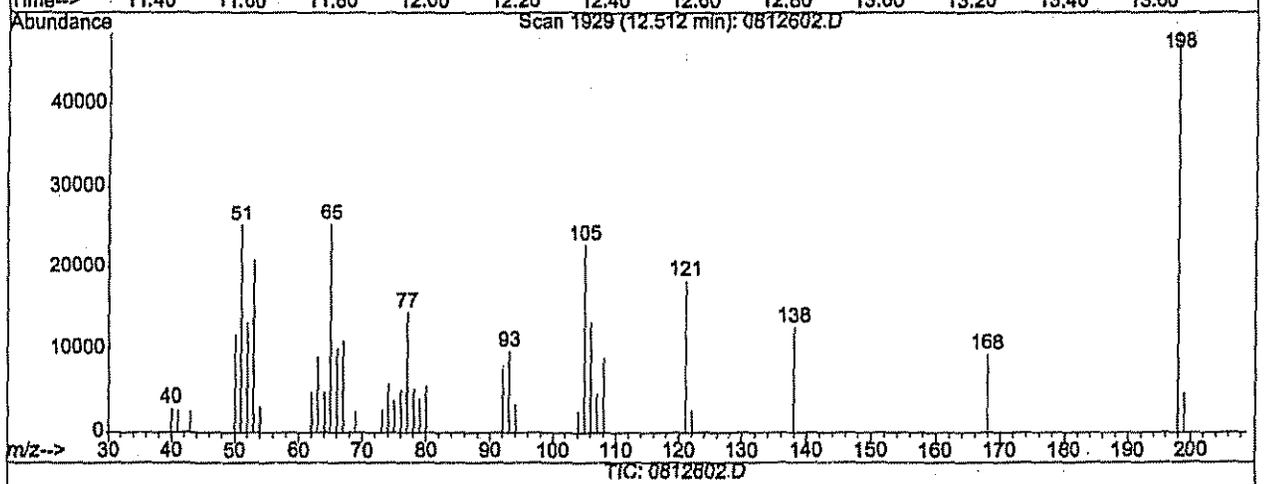


Quantitation Report (Qedit)

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

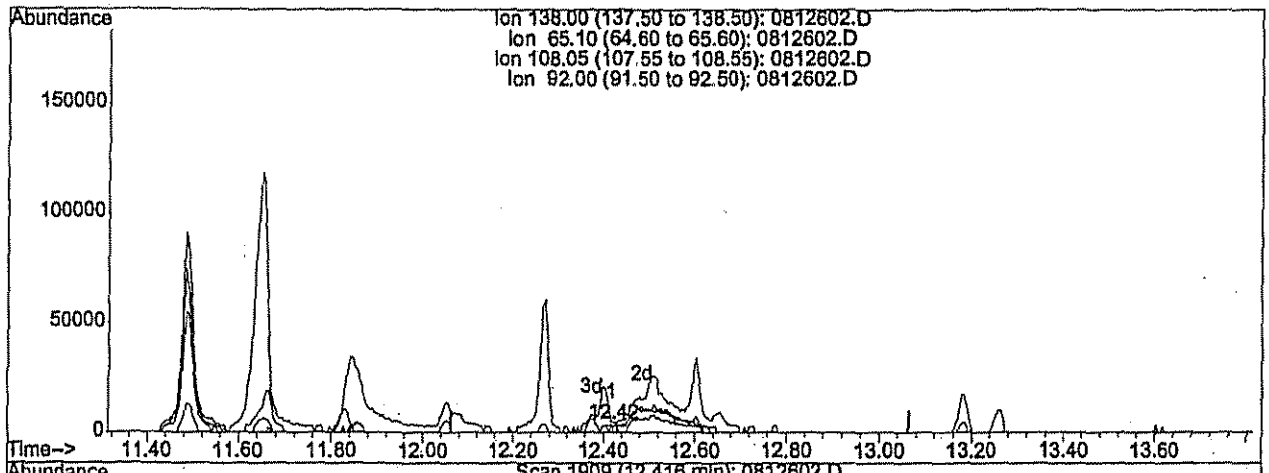
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	201.22#
108.05	86.20	70.21
92.00	49.30	60.09#

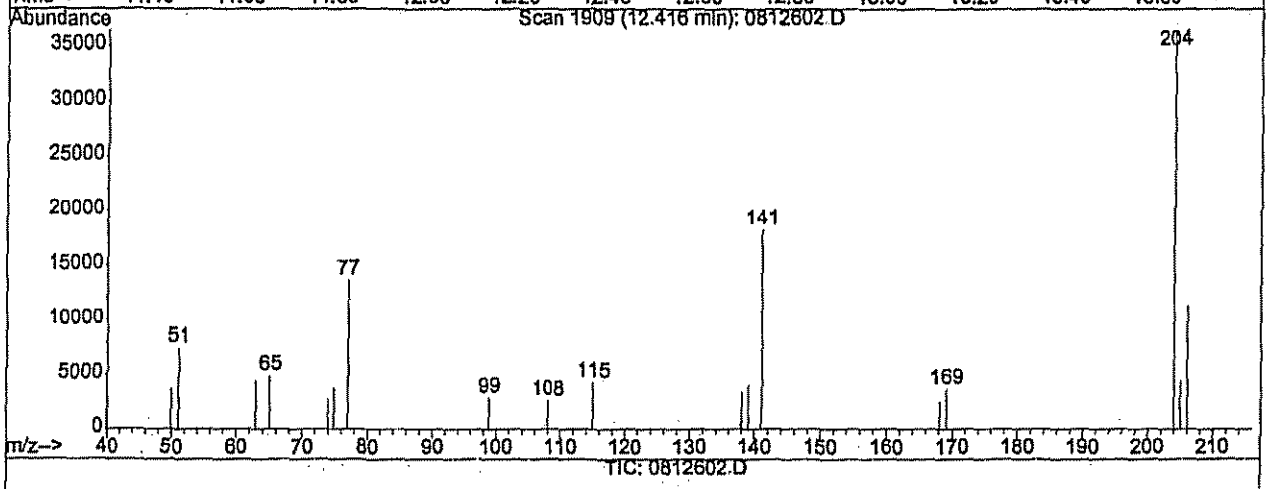
0812602.D 8270.M Fri Aug 12 08:52:47 2005 ENV

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

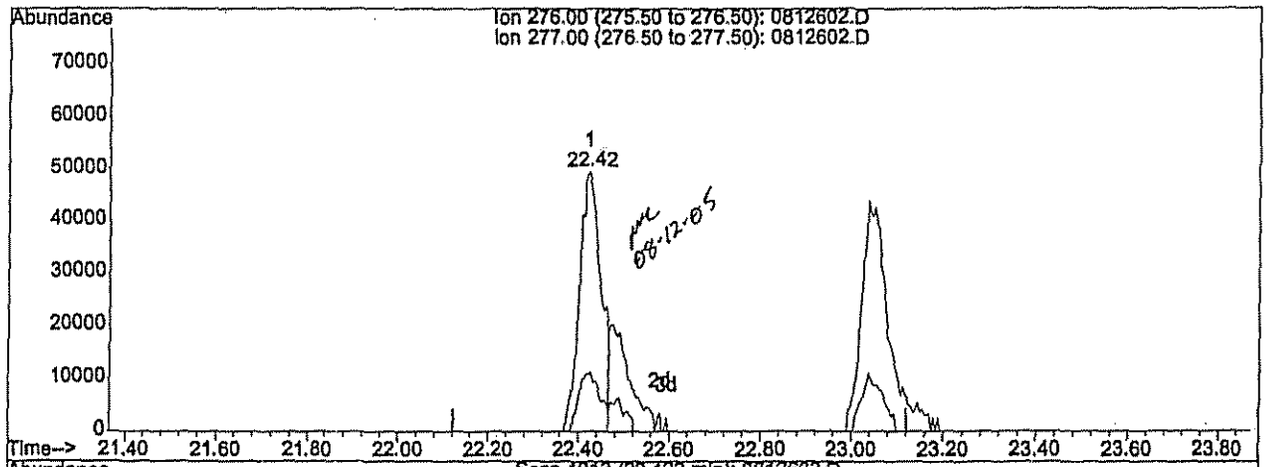
Ion	Exp%	Act%
138.00	100	100
65.10	114.90	4.22#
108.05	86.20	77.33
92.00	49.30	0.00#

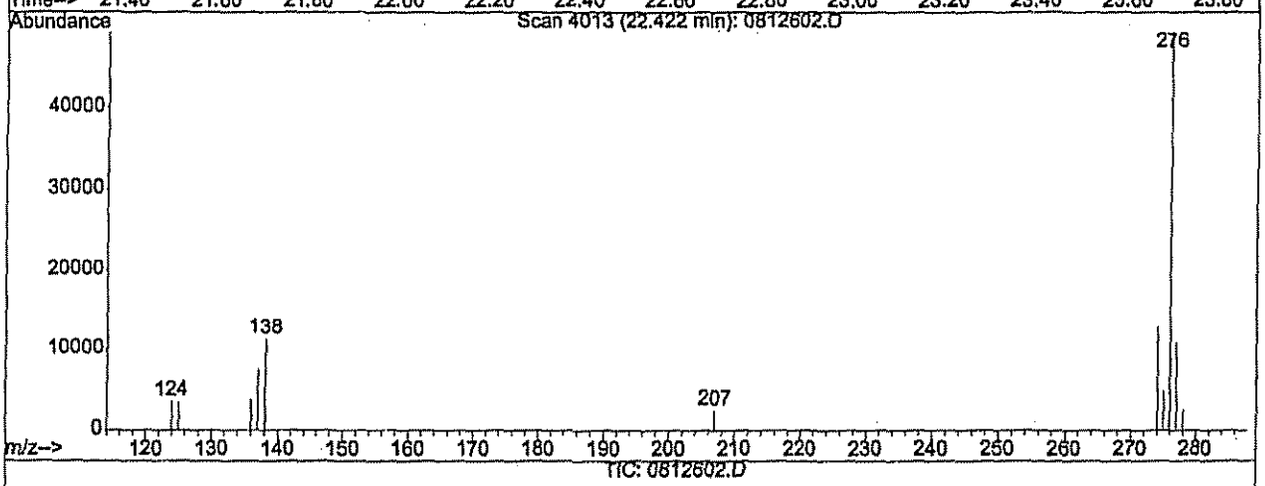
0812602.D 8270.M Fri Aug 12 08:52:43 2005 ENV

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

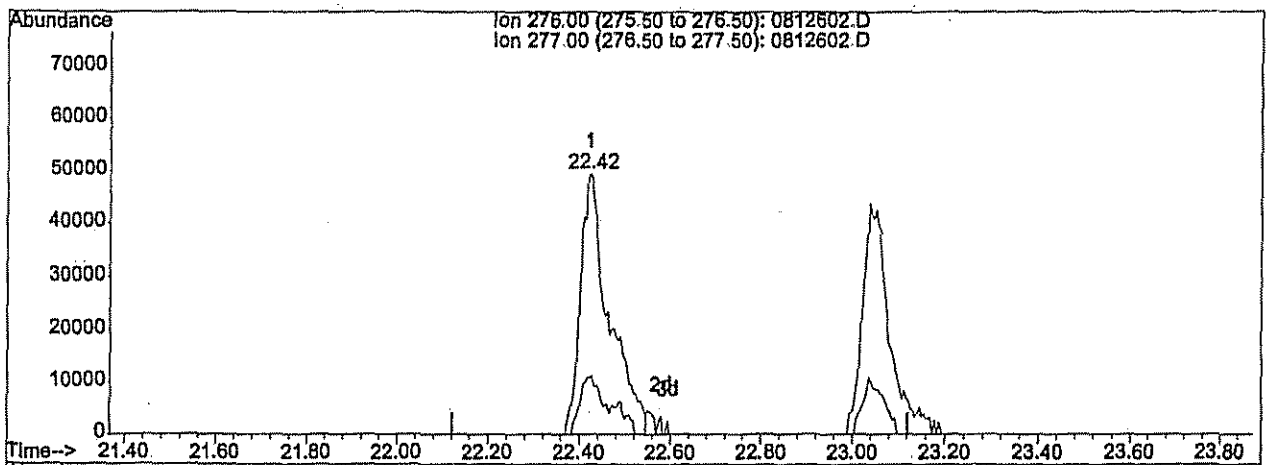
Ion	Exp%	Act%
276.00	100	100
277.00	26.20	21.99
0.00	0.00	0.00
0.00	0.00	0.00

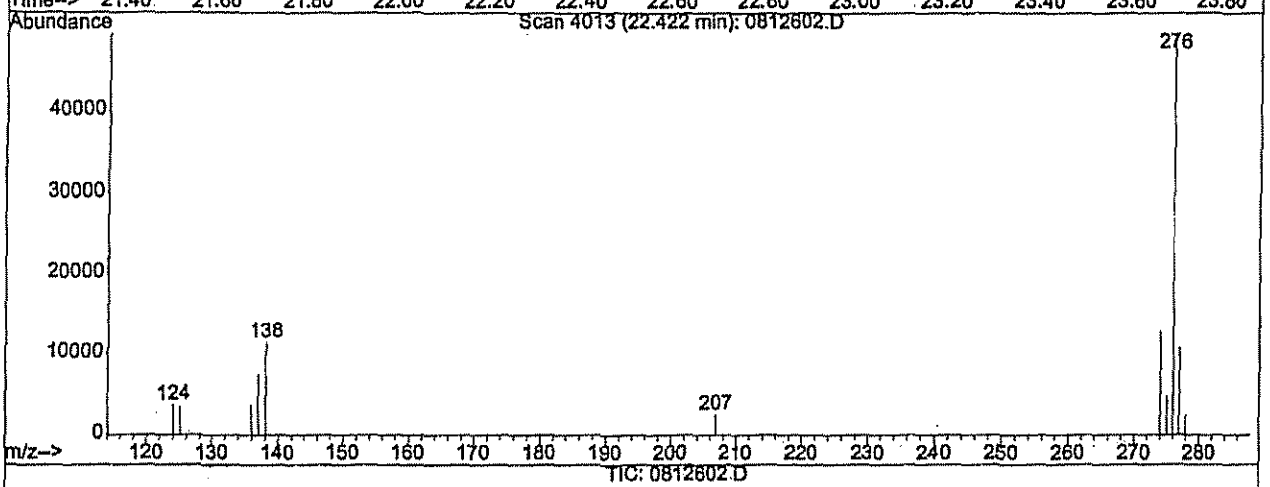
0812602.D 8270.M Fri Aug 12 08:53:49 2005 ENV

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

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

pml 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%	

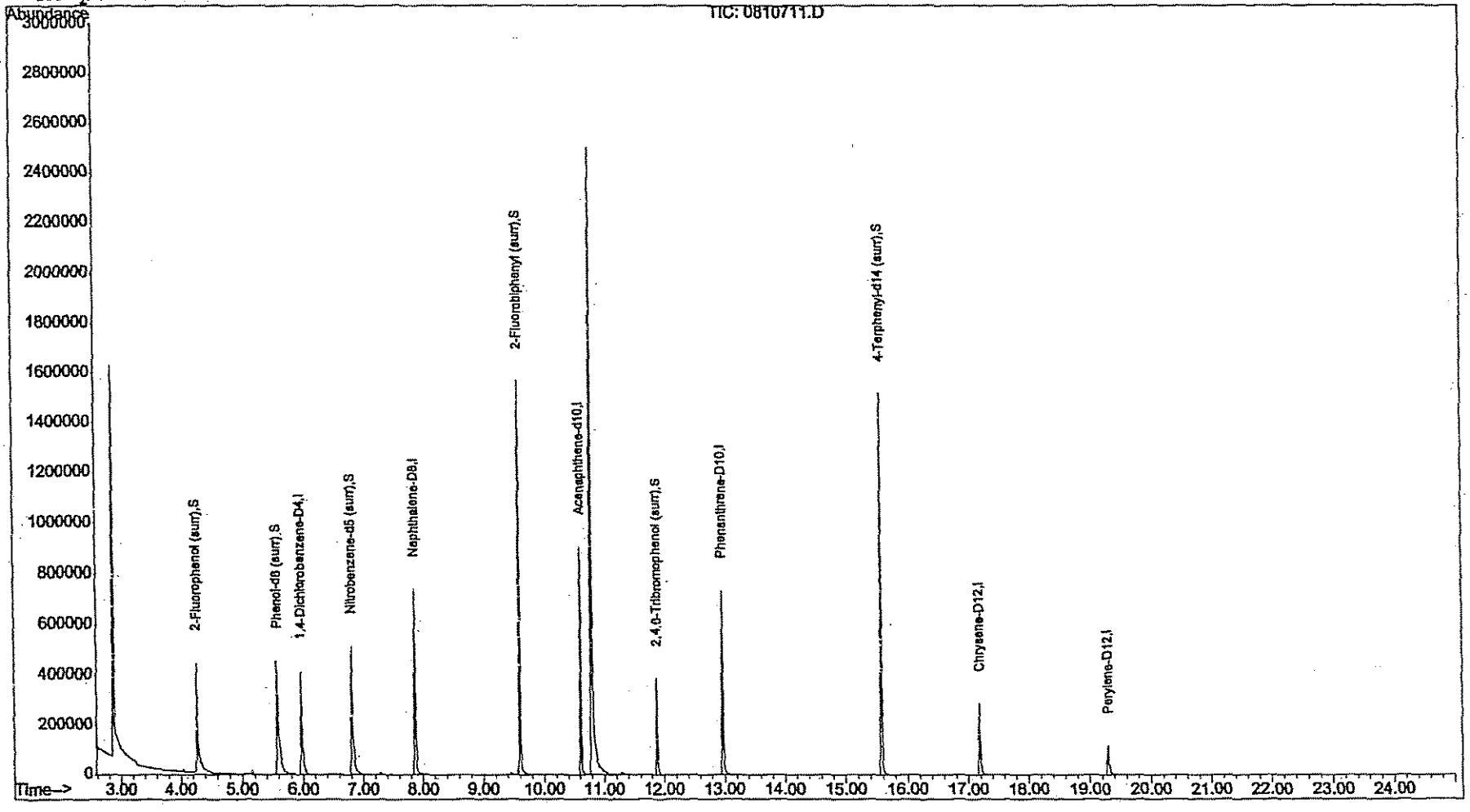
Target Compounds Qvalue

(#) = 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

mc 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

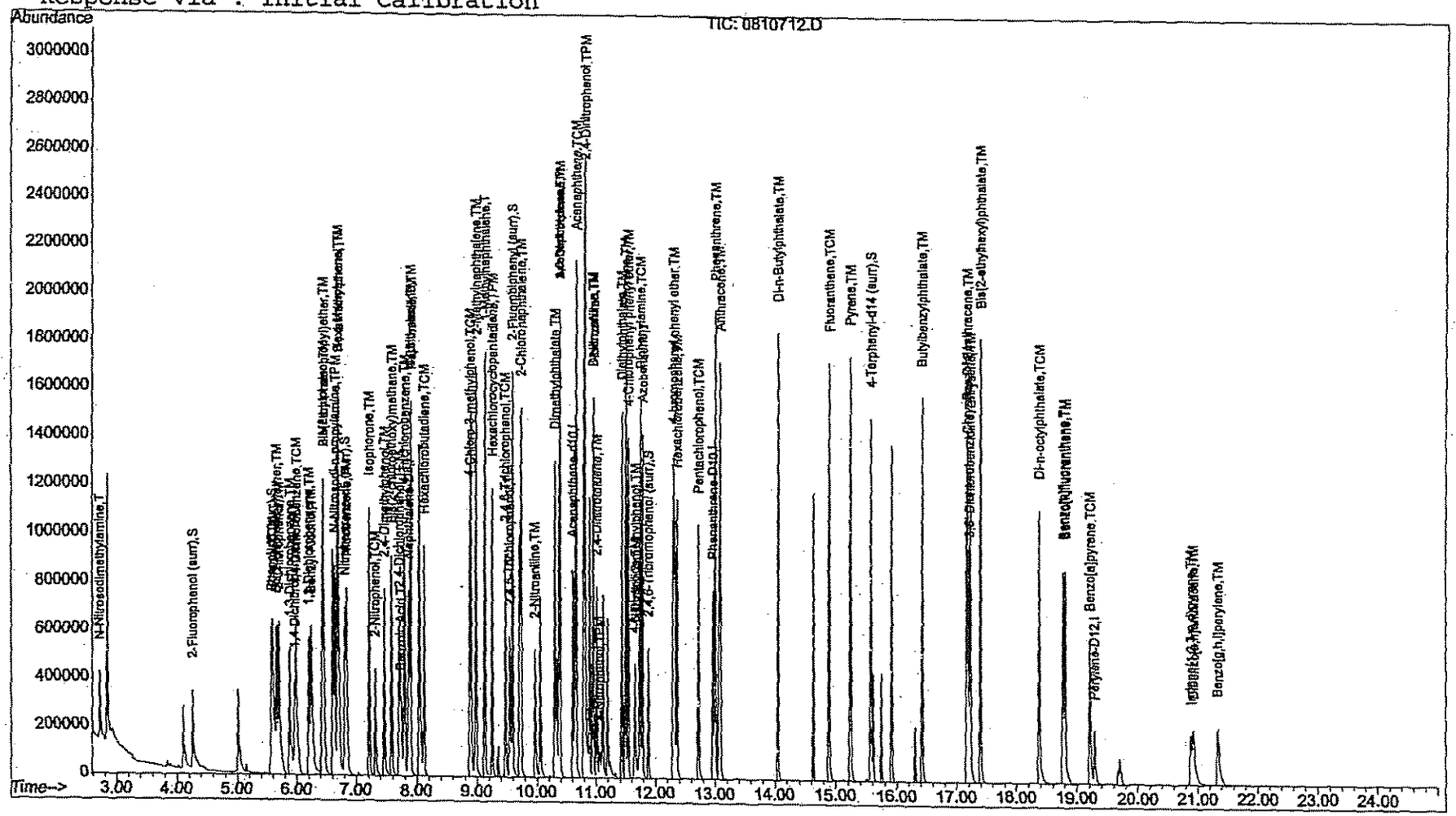
Quantitation Report (QT Reviewed)

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



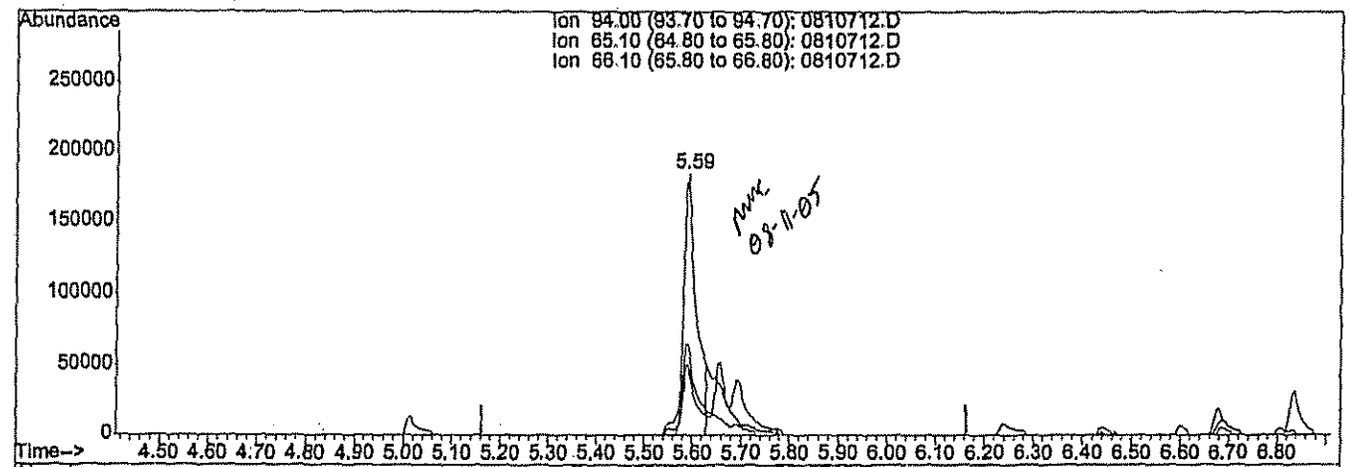
0810712.D 8270.M Thu Aug 11 14:43:34 2005 ENV

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



(4) Phenol (TCM)

5.59min 9.31ug/mL m

response 337847

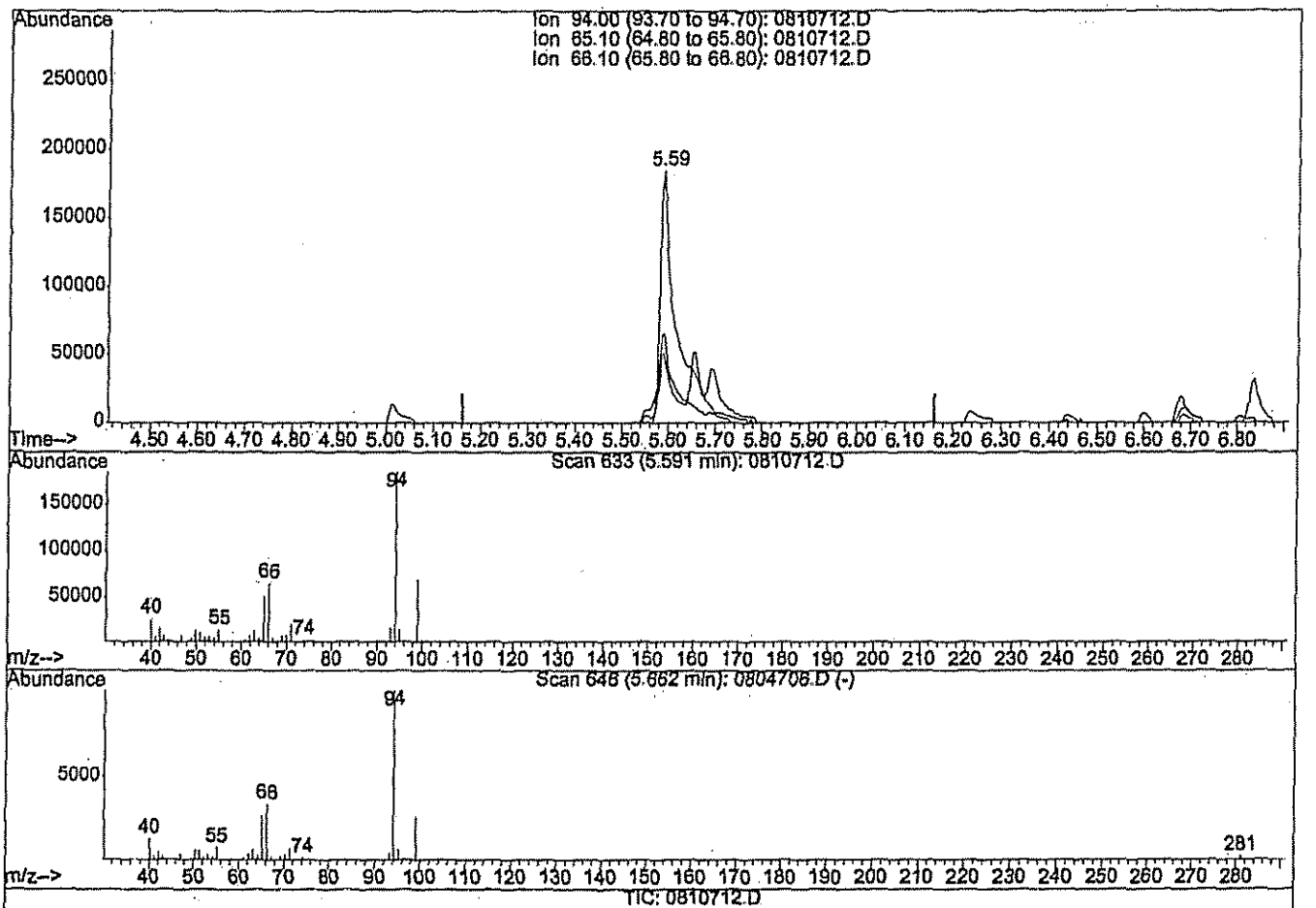
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.67
66.10	33.90	35.32
0.00	0.00	0.00

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



(4) Phenol (TCM)

5.59min 12.98ug/mL

response 470951

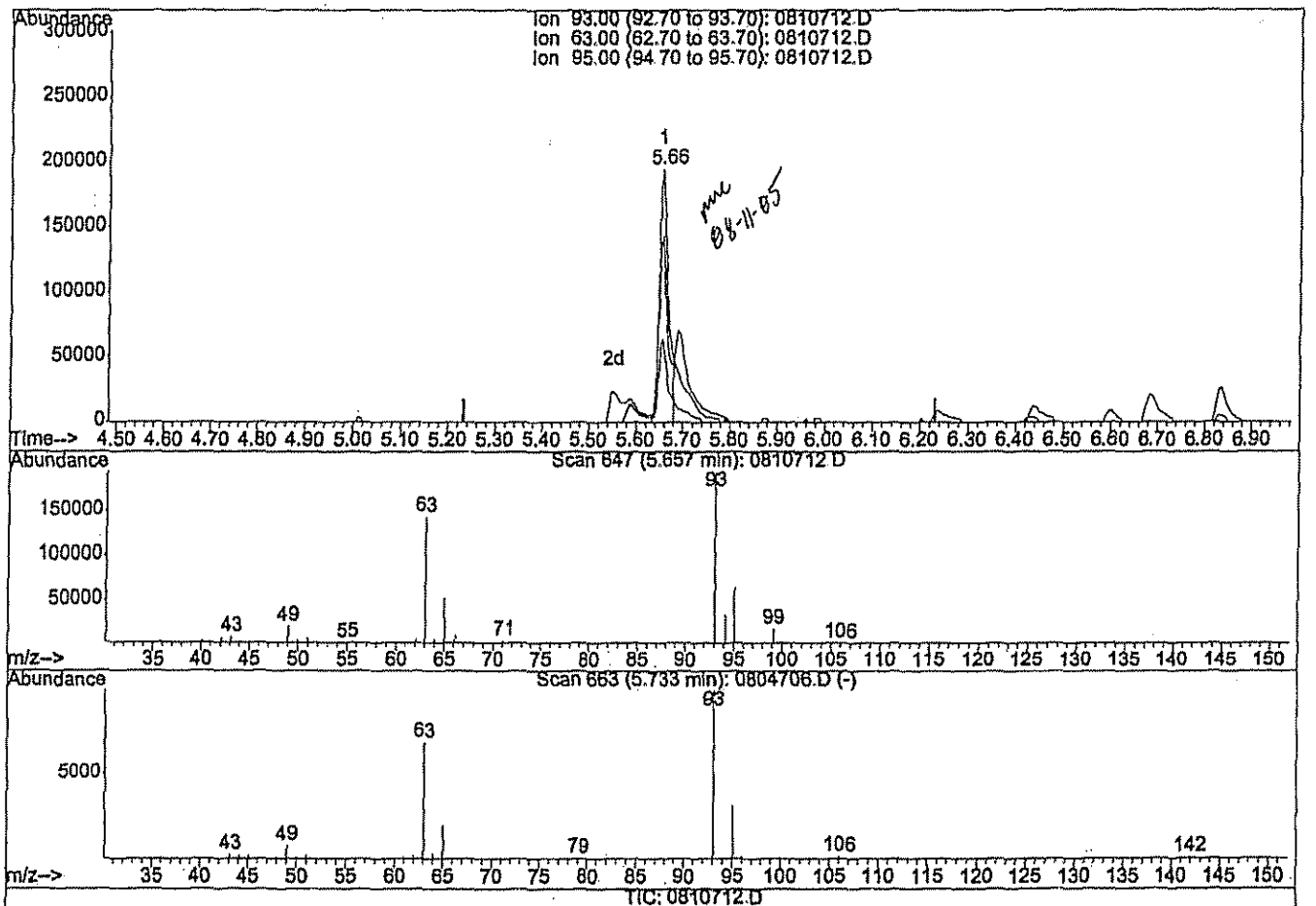
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.17
66.10	33.90	35.32
0.00	0.00	0.00

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

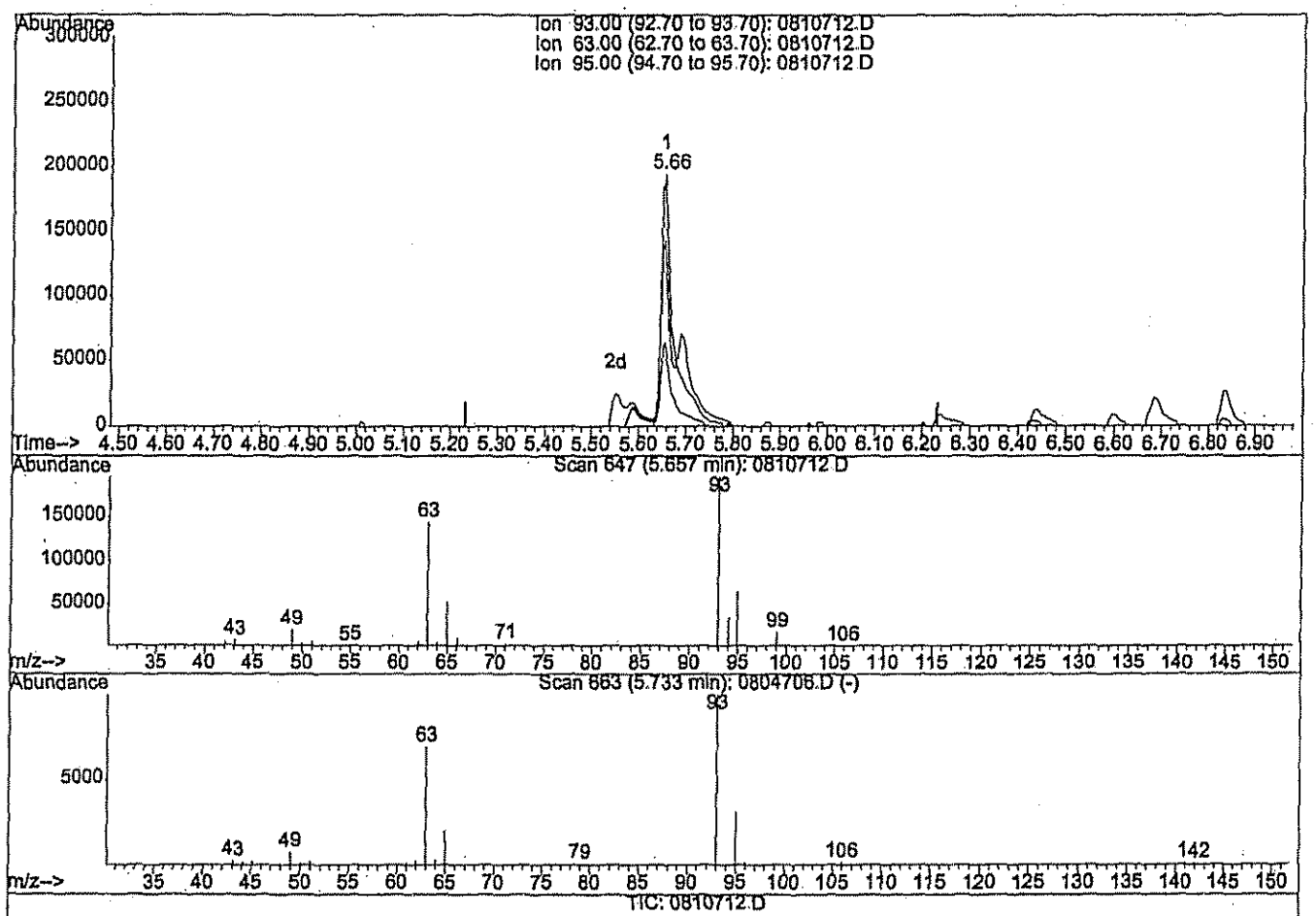
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	73.75
95.00	32.20	32.92
0.00	0.00	0.00

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

mc 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

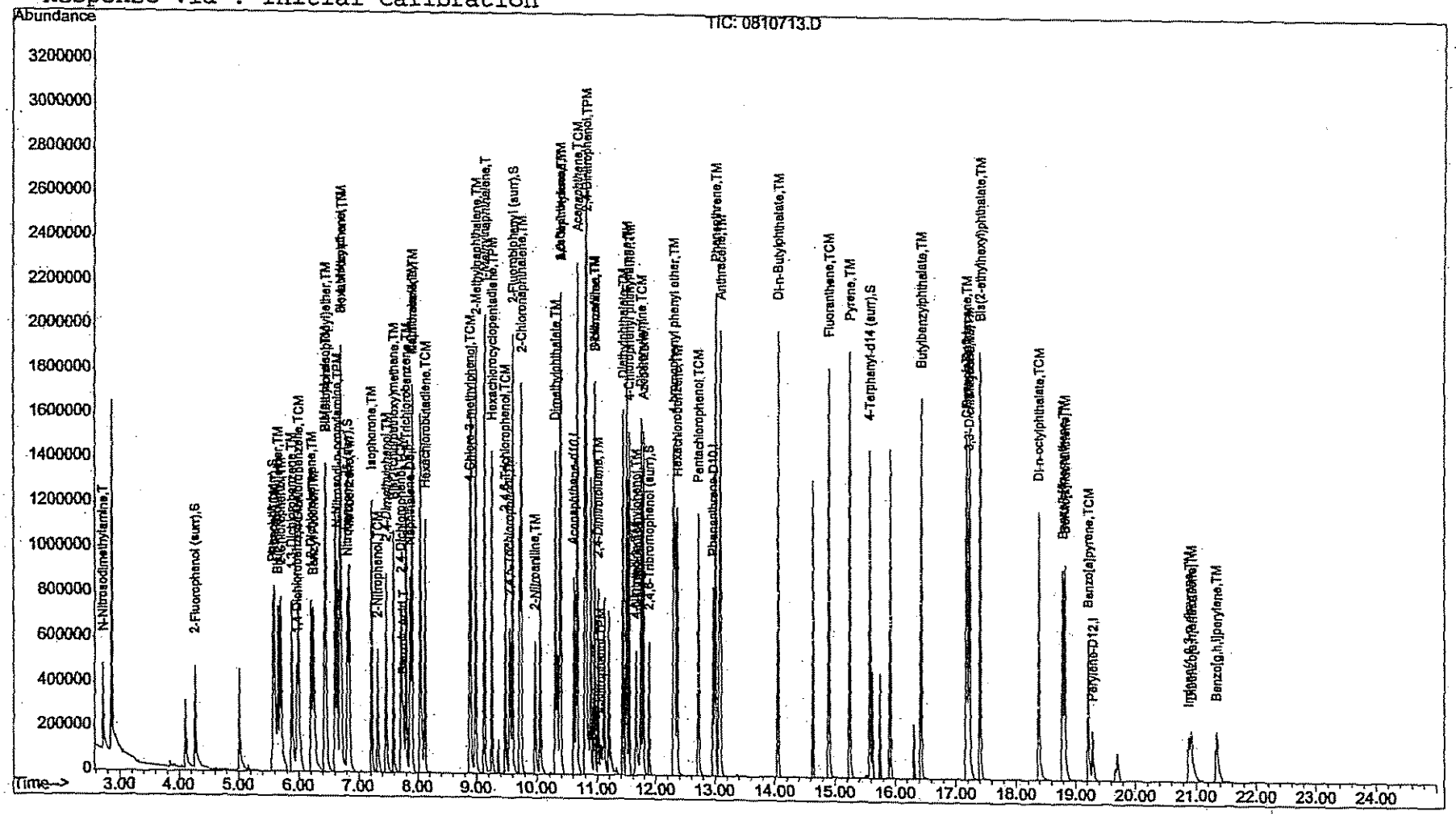
Quantitation Report (QT Reviewed)

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

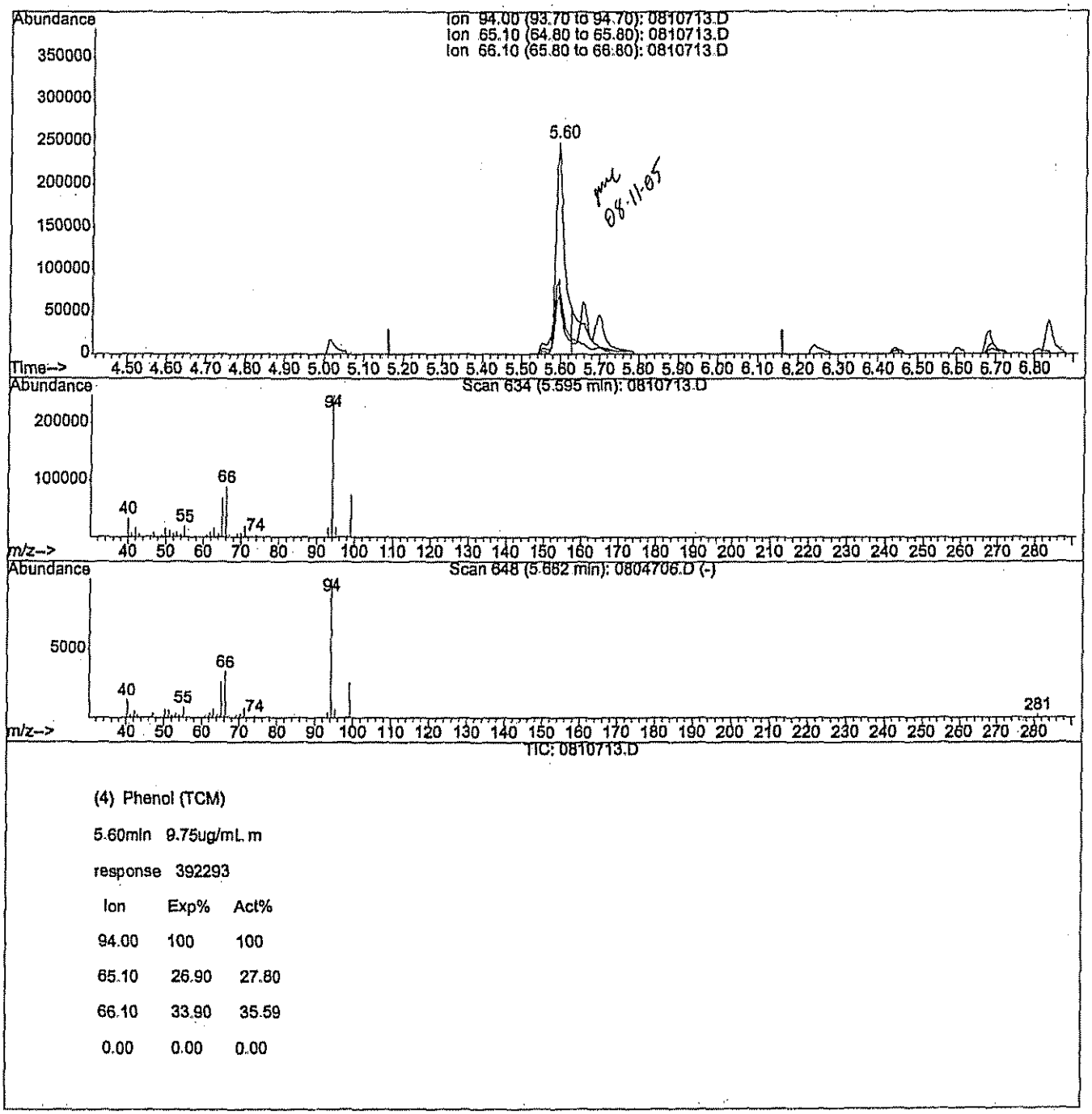
PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

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

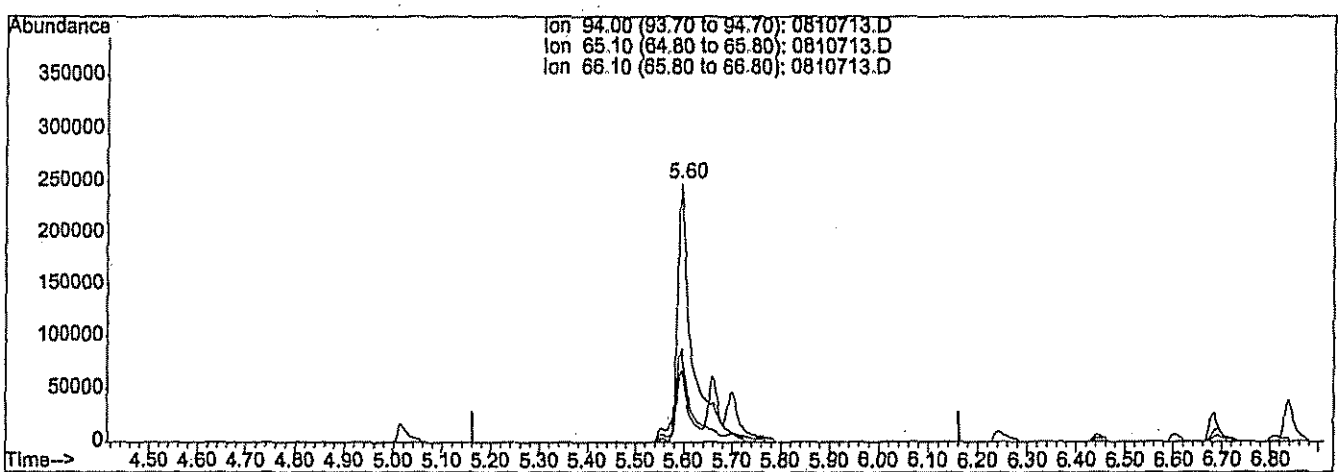
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	27.80
66.10	33.90	35.59
0.00	0.00	0.00

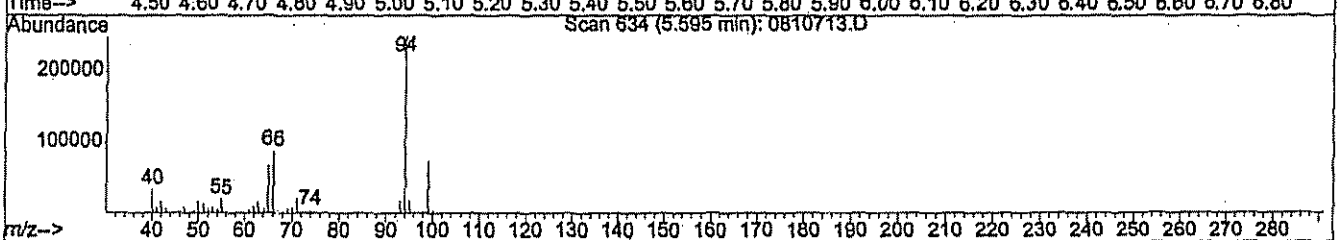
0810713.D 8270.M Thu Aug 11 14:36:06 2005 ENV

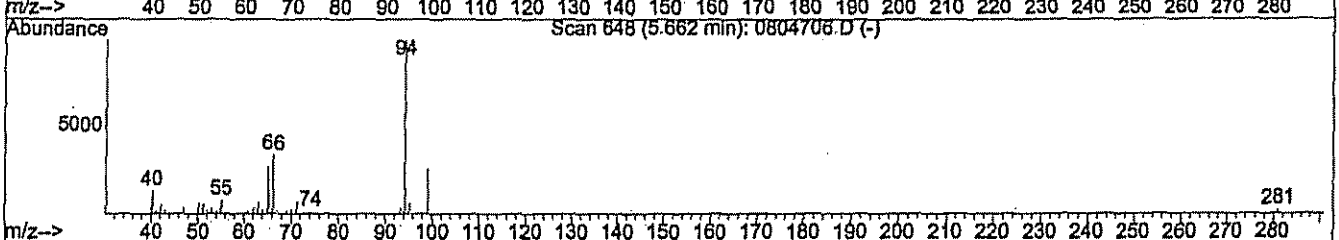
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7081005\0810713.D 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 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

(4) Phenol (TCM)

5.60min 12.98ug/mL

response 522511

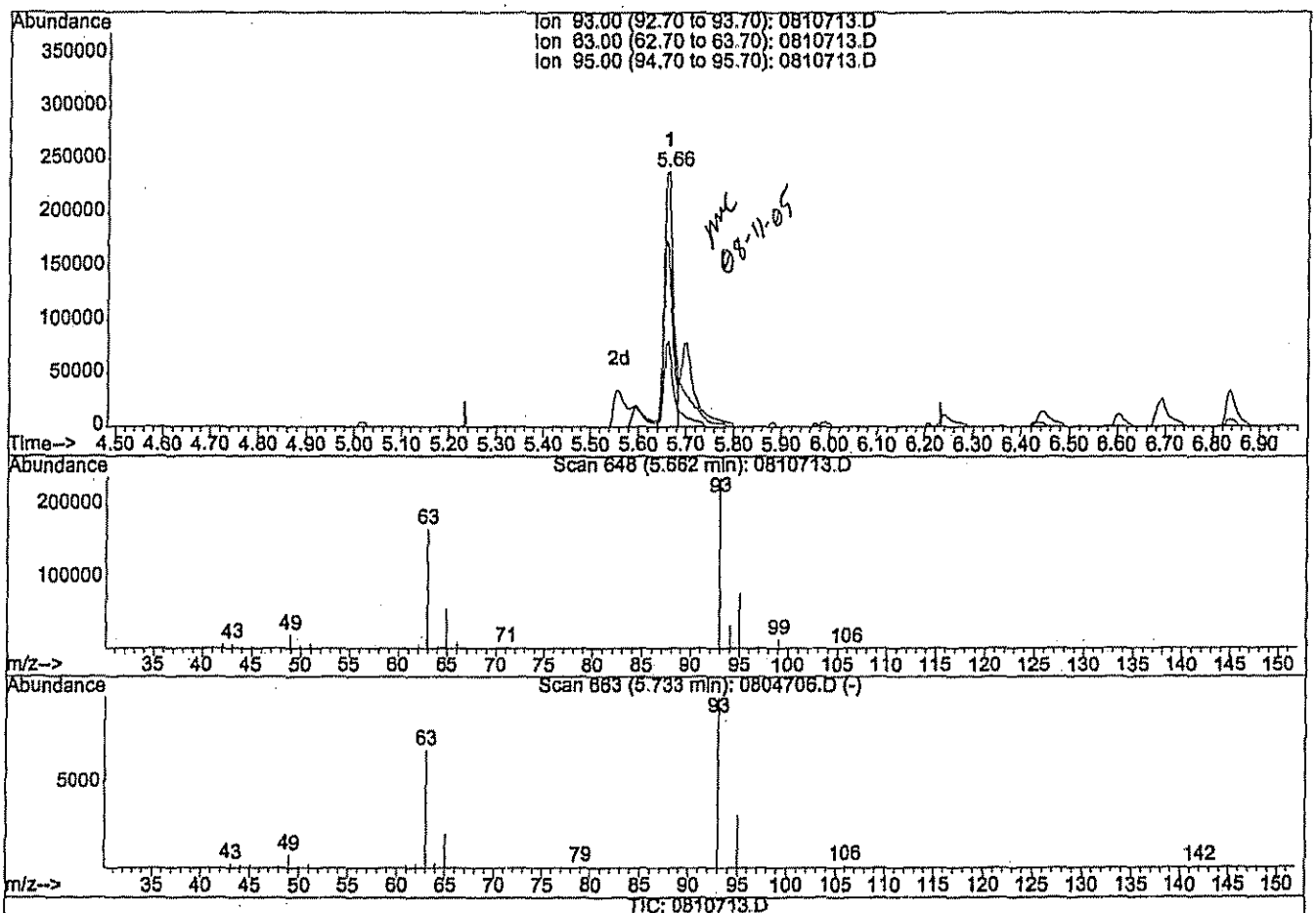
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	25.80
66.10	33.90	35.59
0.00	0.00	0.00

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



(5) Bis(2-chloroethyl)ether (TM)

5.66min 8.77ug/mL m

response 312831

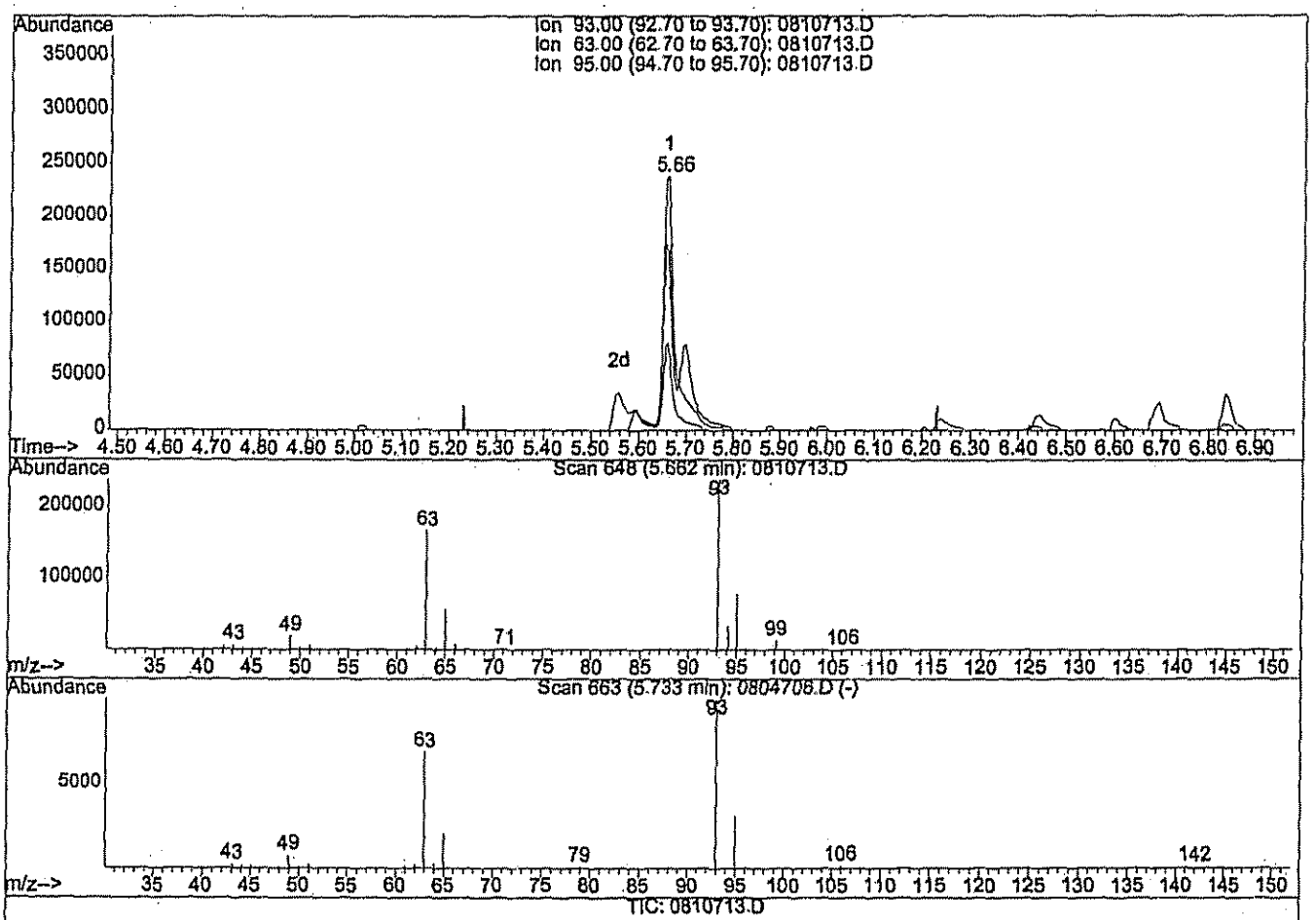
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	70.20
95.00	32.20	33.47
0.00	0.00	0.00

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

mc 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

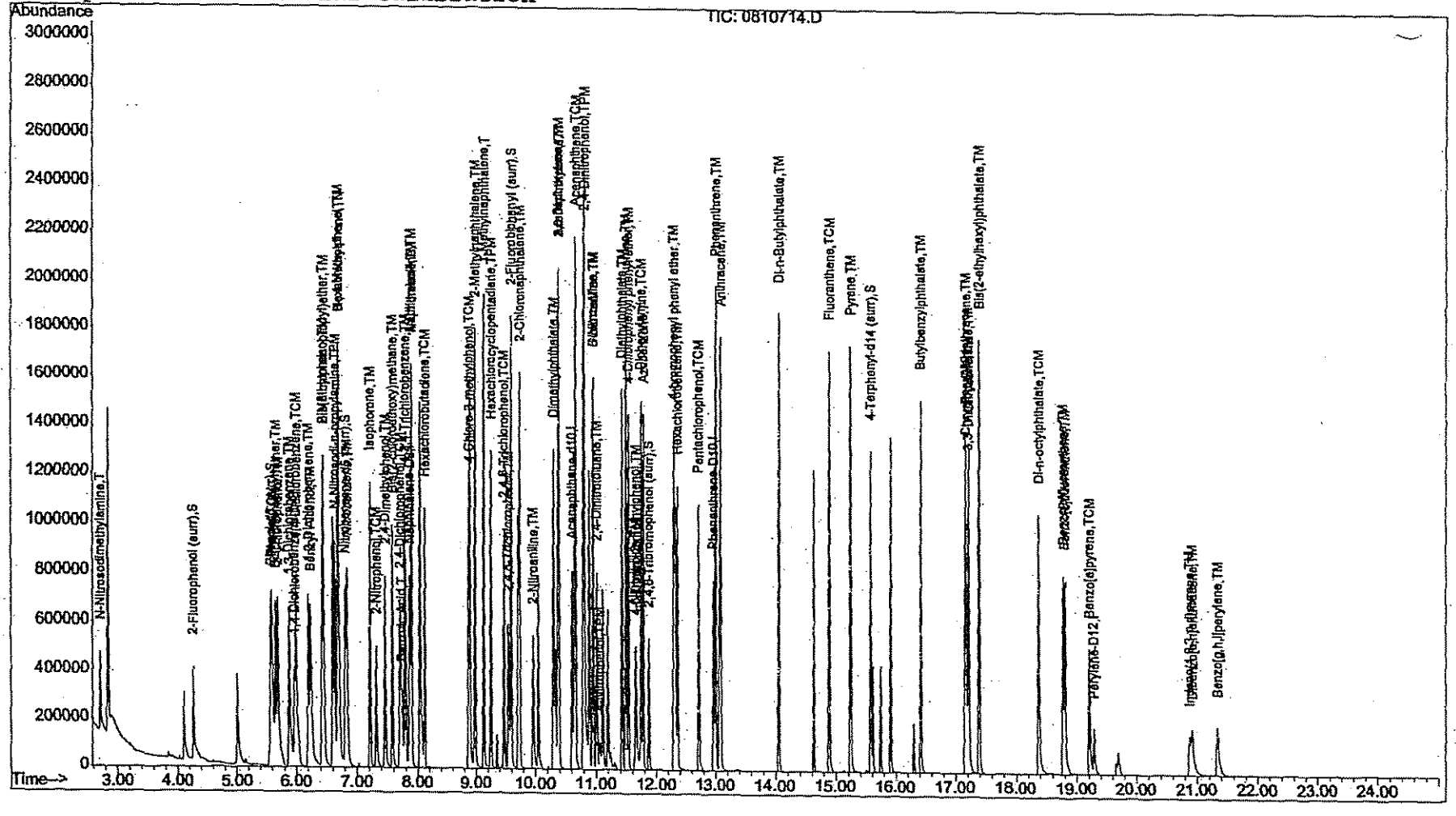
Quantitation Report (QT Reviewed)

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



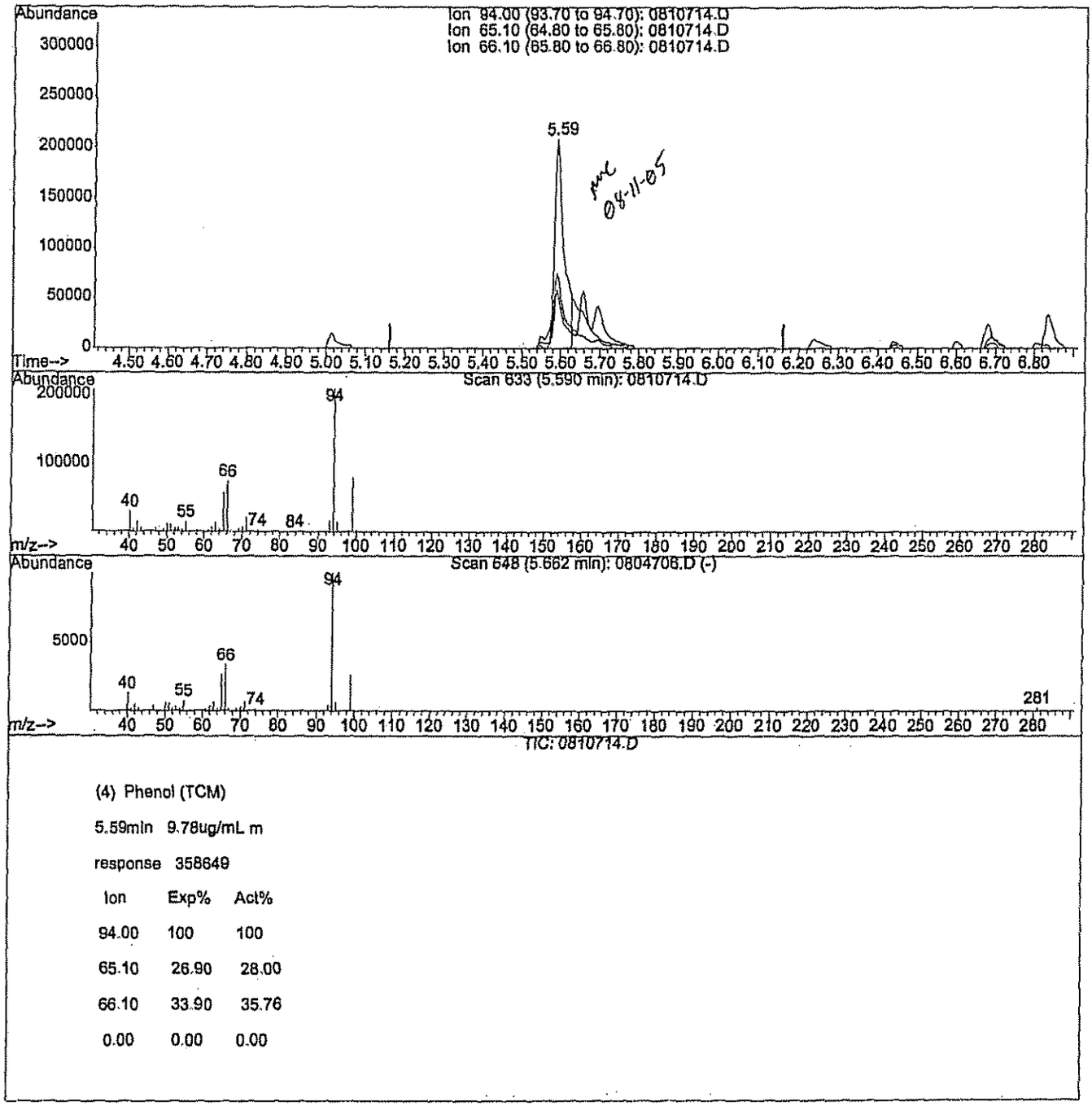
0810714.D 8270.M Thu Aug 11 14:43:43 2005 ENV

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

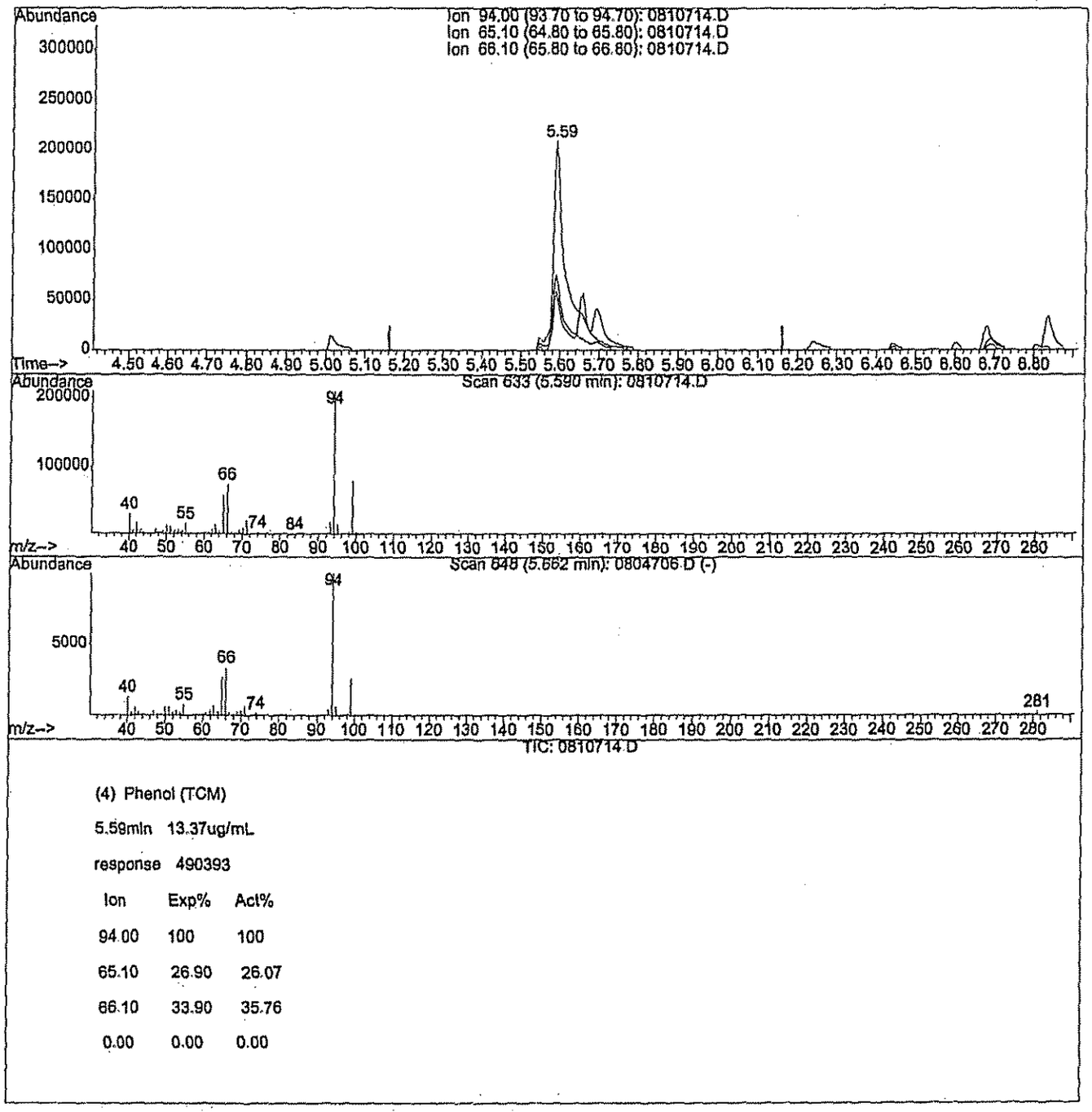
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	28.00
66.10	33.90	35.76
0.00	0.00	0.00

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

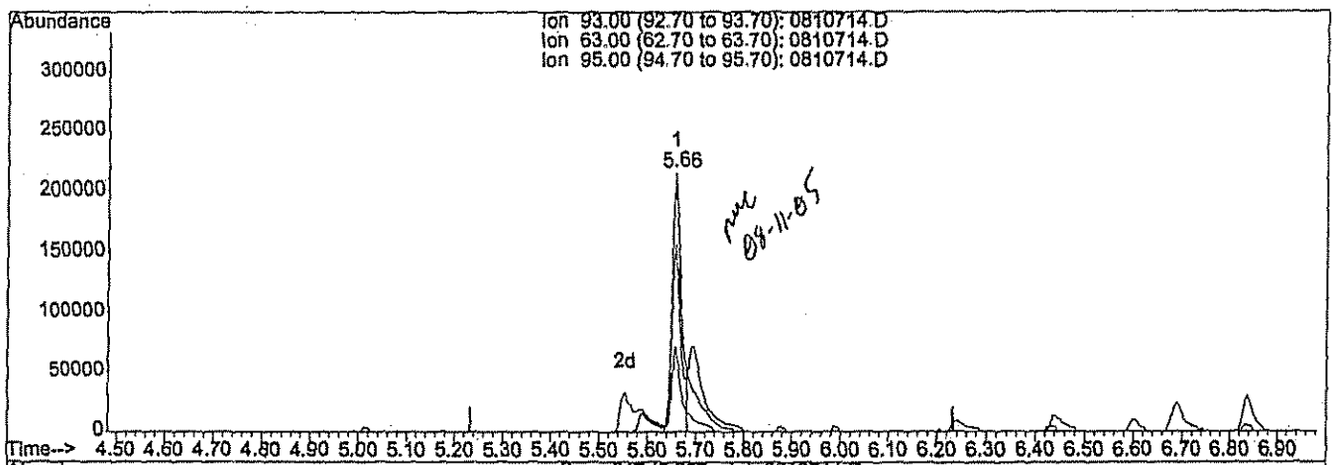
Ion	Exp%	Act%
94.00	100	100
65.10	26.90	26.07
66.10	33.90	35.76
0.00	0.00	0.00

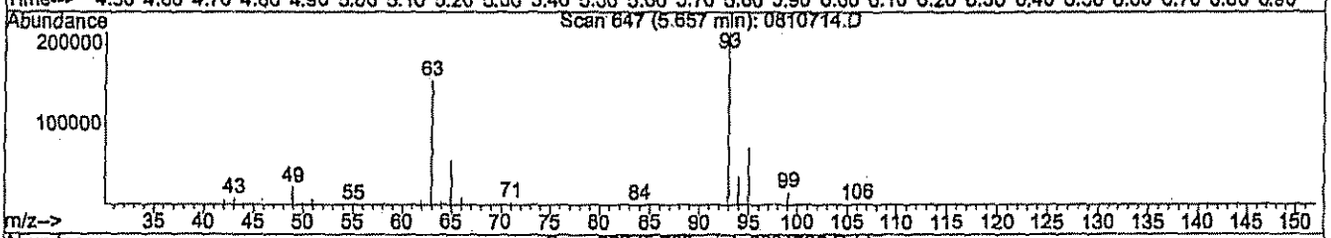
0810714.D 8270.M Thu Aug 11 14:37:03 2005 ENV

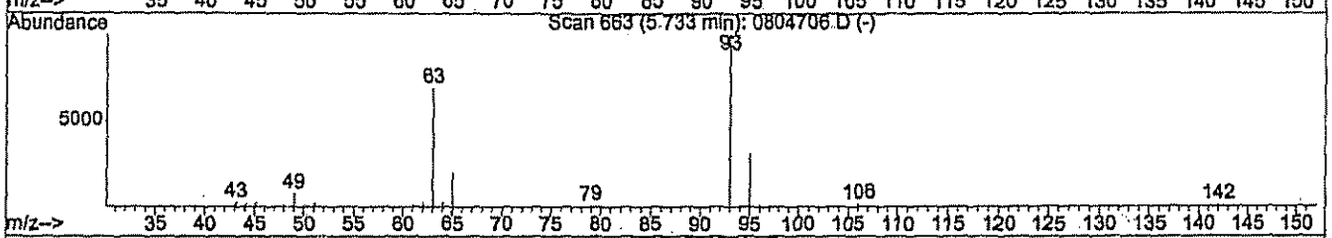
Quantitation Report (Qedit)

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







TIC: 0810714.D

(5) Bis(2-chloroethyl)ether (TM)

5.66min 8.80ug/mL m

response 286132

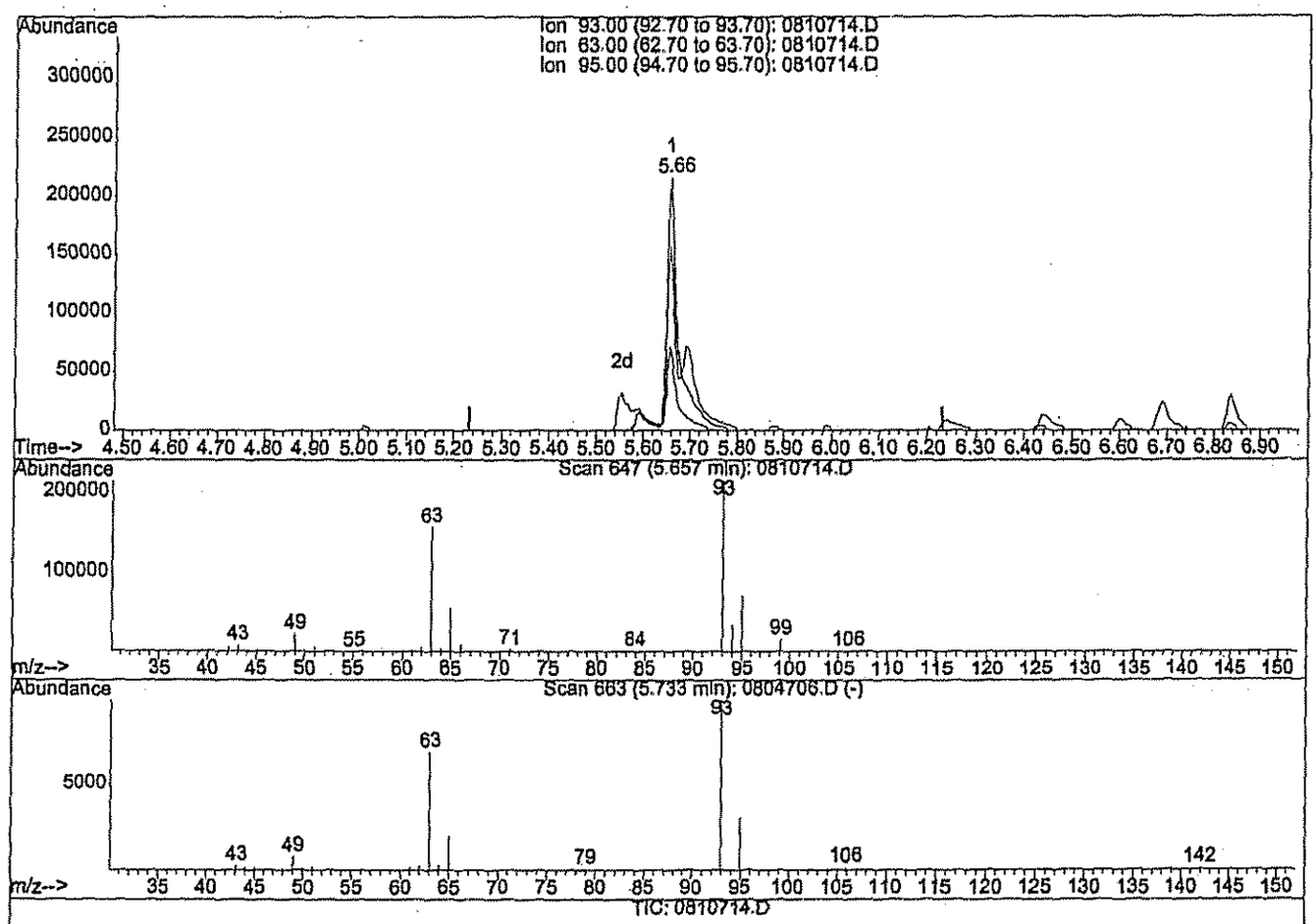
Ion	Exp%	Act%
93.00	100	100
63.00	70.60	72.57
95.00	32.20	33.04
0.00	0.00	0.00

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: MC

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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	DUP			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

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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: MC

Page Number: 1417

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

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	G510-240-1H x1	8/12/2005 15:06				MRC	
0812615.D	G175-494-1J x1	8/12/2005 15:40				MRC	
0812616.D	G175-494-2J x1	8/12/2005 16:13				MRC	
0812617.D	G175-494-3J x1	8/12/2005 16:47				MRC	
0812618.D	G175-494-4J x1	8/12/2005 17:21				MRC	
0812619.D	G175-494-5J x1	8/12/2005 17:56				MRC	x20
0812620.D	G175-494-6J x1	8/12/2005 18:29				MRC	x20

Analyst: MC

Page Number: 1925

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
0812621.D	G175-494-7J x1	8/12/2005 19:04		OK	OK	MRC	
0812622.D	G161-2104-1N x1	8/12/2005 19:38				MRC	
0812623.D	G537-162-1E x2	8/12/2005 20:12				MRC	
0812624.D	G537-162-32E x2	8/12/2005 20:47				MRC	
0812625.D	G537-162-43E x1	8/12/2005 21:22				MRC	
0812626.D	G537-162-43F DUP x1	8/12/2005 21:56				MRC	
0812627.D	G537-162-44E x1	8/12/2005 22:30				MRC	
0812628.D	G537-162-45E x1	8/12/2005 23:04				MRC	
0812629.D	PB3413 x1	8/12/2005 23:39				MRC	
0812630.D	LCS3413 x1	8/13/2005 0:15				MRC	
0812631.D	G537-162-44F MS x1	8/13/2005 0:49				MRC	
0812632.D	G537-162-44G MSD x1	8/13/2005 1:23				MRC	
0812633.D	G537-162-45F DUP x1	8/13/2005 1:57				MRC	

Analyst: ML

Page Number: 1926

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

VPH Sample Raw Data

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp080905\013F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2104-1e x1
un Time Bar Code:
cquired on : 09 Aug 05 02:30 PM
eport Created on: 10 Aug 05 08:26 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

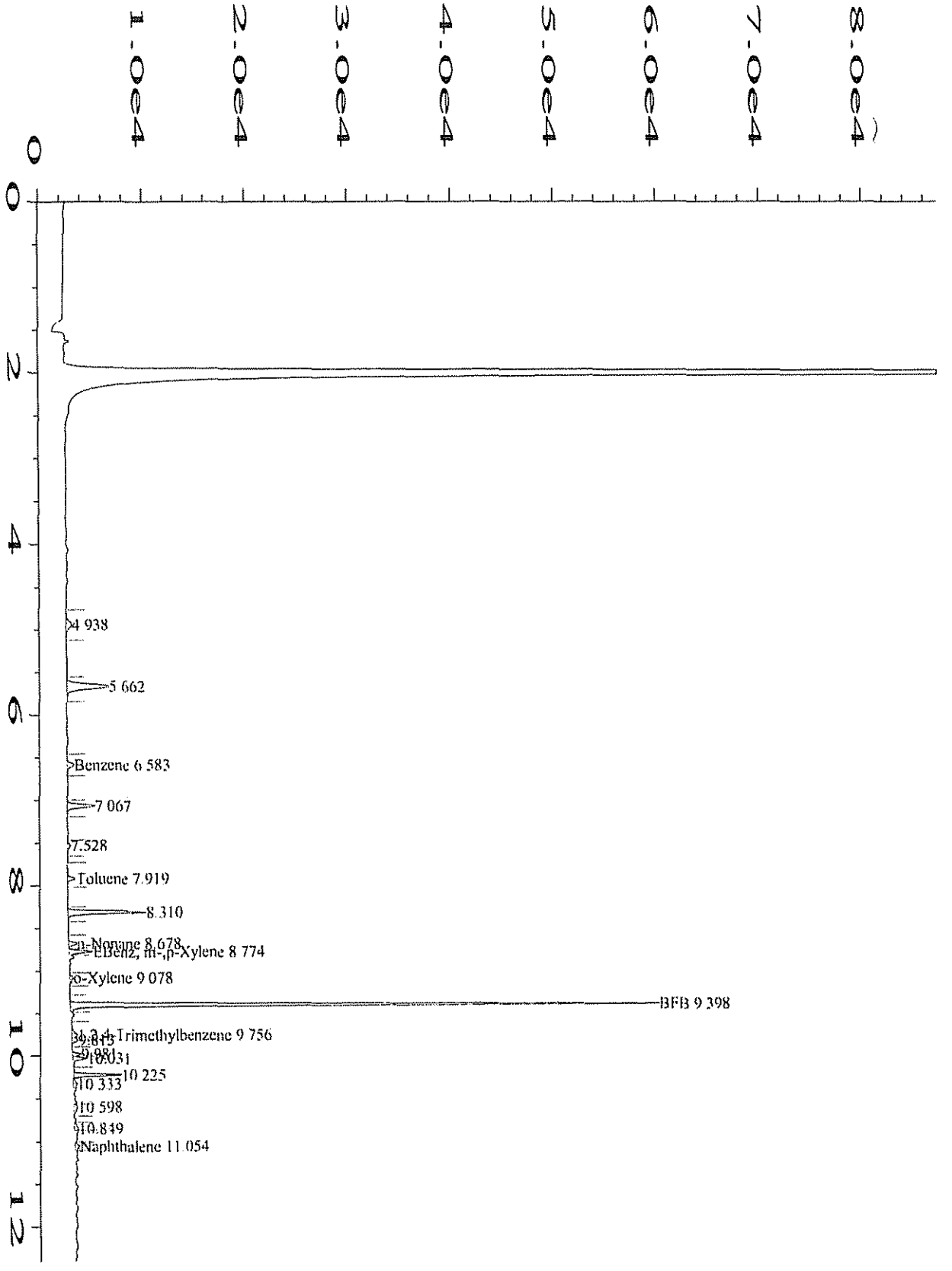
Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp080905\013F0101.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
6.583	2452	BB	0.054	1	0.311	Benzene
7.919	2286	BB	0.045	1	0.243	Toluene
8.678	1967	BV	0.037	1	0.493	n-Nonane
8.774	4533	VV	0.031	1	0.443	EBenz, m-,p-Xylene
9.078	1336	BV	0.055	1	0.133	o-Xylene
9.398	104445	BV	0.028	1	402.322	BFB
9.756	2105	BV	0.053	1	0.224	1,2,4-Trimethylbenzene
11.054	1538	VV	0.049	1	0.363	Naphthalene
4.938	3502	BB	0.096		35.024	* uncalibrated *
5.662	16850	BB	0.063		168.499	* uncalibrated *
7.067	7473	BB	0.044		74.726	* uncalibrated *
7.528	1139	BB	0.054		11.390	* uncalibrated *
8.310	17574	BB	0.036		175.743	* uncalibrated *
9.813	1737	VV	0.043		17.374	* uncalibrated *
9.981	1707	PV	0.032		17.073	* uncalibrated *
10.031	2791	VB	0.030		27.912	* uncalibrated *
10.225	8189	BV	0.028		81.889	* uncalibrated *
10.333	1495	VV	0.060		14.953	* uncalibrated *
10.598	1761	VV	0.061		17.611	* uncalibrated *
10.849	1495	VV	0.051		14.945	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp080905\013F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: g161-2104-1e x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 09 Aug 05 02:30 PM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Aug 05 08:26 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\vp080905\013R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2104-1e x1
un Time Bar Code:
cquired on : 09 Aug 05 02:30 PM
eport Created on: 10 Aug 05 08:26 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_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp080905\013R0101.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
6.596	3991	BV	0.061	1	0.0502	Benzene
7.920	3717	VB	0.040	1	0.0911	Toluene
8.682	1014	VV	0.042	1	0.149	n-Nonane
8.838	2372	VV	0.034	1	0.0701	ethbzene/m,p-xylene
9.077	2818	VV	0.055	1	0.0727	o-Xylene
9.400	485901	PV	0.032	1	32.703	BFB(pid)
9.757	4132	VV	0.066	1	0.135	1,2,4-Trimethylbenzene
11.205	1184	VV	0.032	1	0.0676	Naphthalene(pid)
1.484	612	BB	0.038		6.122	* uncalibrated *
1.632	4760	BV	0.053		47.604	* uncalibrated *
1.987	61620	BB	0.068		616.201	* uncalibrated *
4.425	7505	VB	0.071		75.046	* uncalibrated *
5.669	114183	BV	0.070		1141.833	* uncalibrated *
7.070	64398	BB	0.047		643.980	* uncalibrated *
7.529	1338	PB	0.056		13.380	* uncalibrated *
8.314	147527	BV	0.041		1475.274	* uncalibrated *
8.775	14712	VV	0.033		147.122	* uncalibrated *
9.814	1483	VV	0.052		14.829	* uncalibrated *
9.980	6106	VV	0.032		61.057	* uncalibrated *
10.032	10363	VV	0.031		103.633	* uncalibrated *
10.225	25934	VV	0.030		259.342	* uncalibrated *
10.327	2569	VV	0.090		25.691	* uncalibrated *
10.481	1740	VV	0.047		17.395	* uncalibrated *
10.603	1891	VV	0.068		18.907	* uncalibrated *
10.746	549	PV	0.031		5.492	* uncalibrated *
10.846	2712	VV	0.080		27.121	* uncalibrated *
10.960	1607	VV	0.068		16.074	* uncalibrated *
11.061	1851	VV	0.050		18.515	* uncalibrated *
11.397	1032	VV	0.046		10.317	* uncalibrated *
11.531	680	PB	0.047		6.805	* uncalibrated *
11.761	1049	VV	0.049		10.493	* uncalibrated *

Not all calibrated peaks were found

ata File Name	: C:\HPCHEM\1\DATA\vp080905\013R0101.D		
perator	: DCS	Page Number	: 2
nstrument	: FID/PID	Vial Number	: 13
ample Name	: g161-2104-1e x1	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 09 Aug 05 02:30 PM	Instrument Method	: GAS1.MTH
eport Created on	: 10 Aug 05 08:26 AM	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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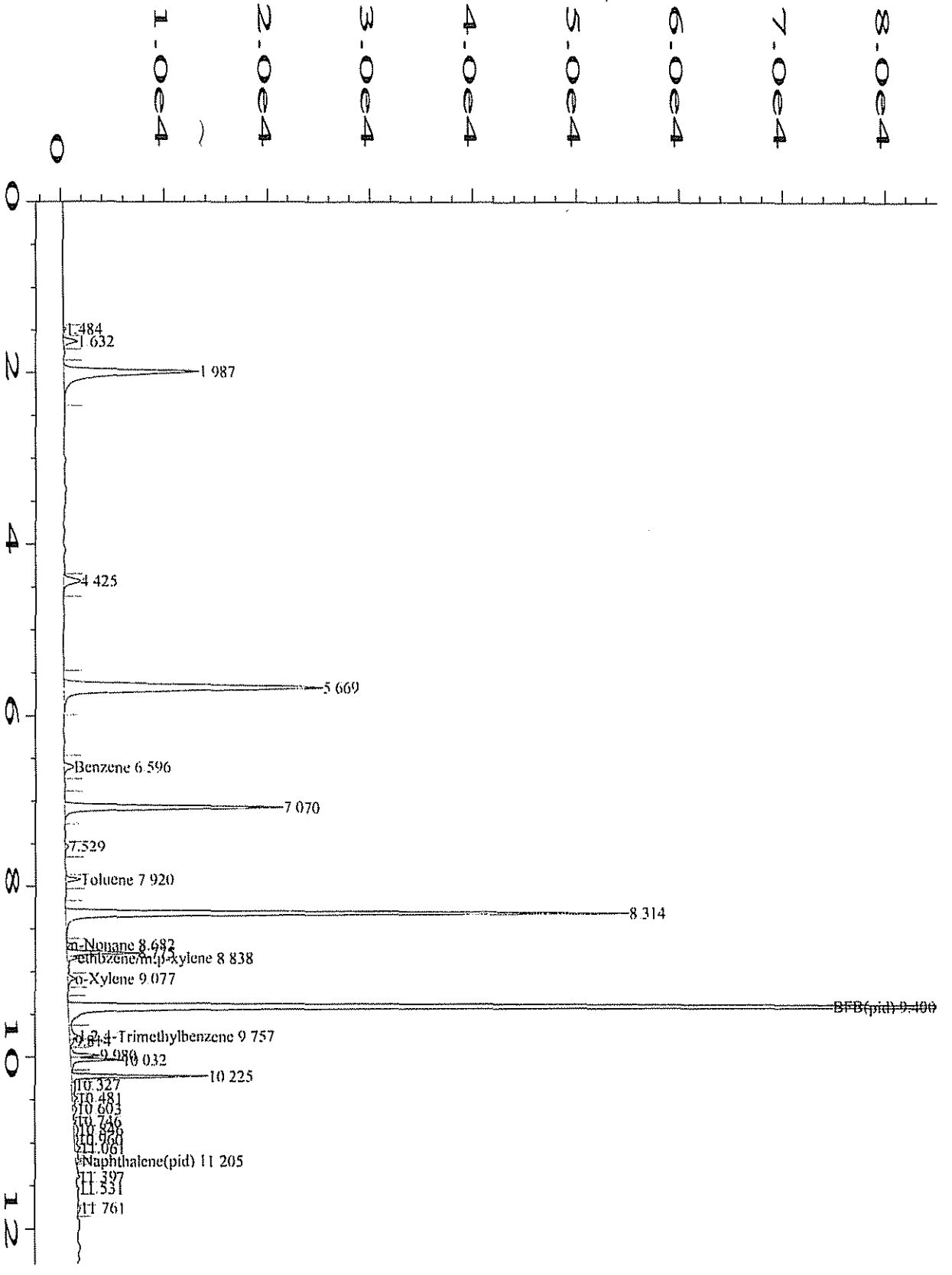

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Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 13
Sample Name	: g161-2104-1e x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 09 Aug 05 02:30 PM	Instrument Method:	GAS1.MTH
Report Created on:	10 Aug 05 08:26 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

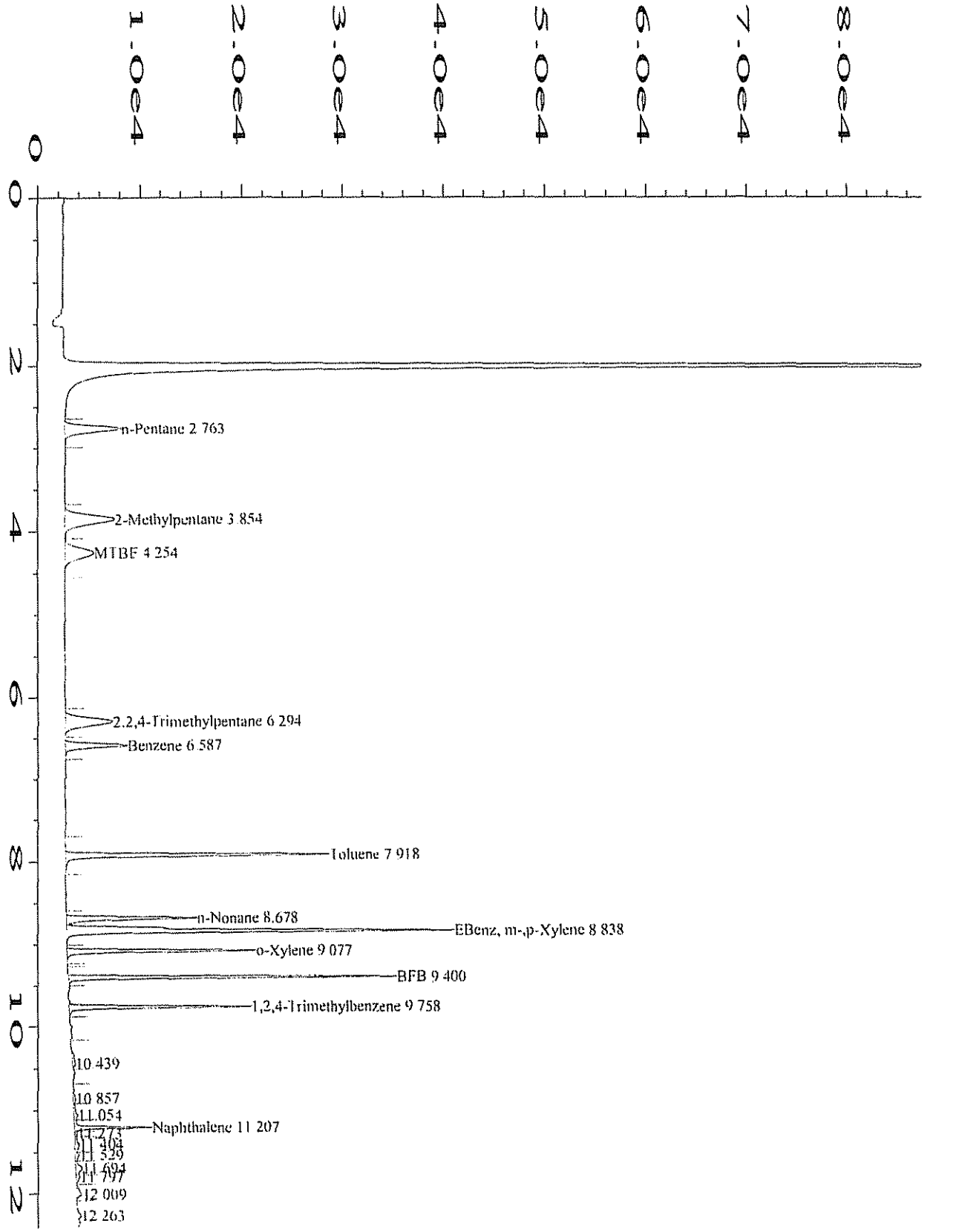
ta File Name : C:\HPCHEM\1\DATA\vp071405\003F0101.D
erator : DCS
strument : FID/PID
mple Name : V 10
n Time Bar Code:
quired on : 14 Jul 05 09:14 AM
port Created on: 07 Sep 05 02:35 PM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

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 *

libration table contains at least one peak with amt = 0



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perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 3
ample Name	: V 10	Injection Number	: 1
an 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	:

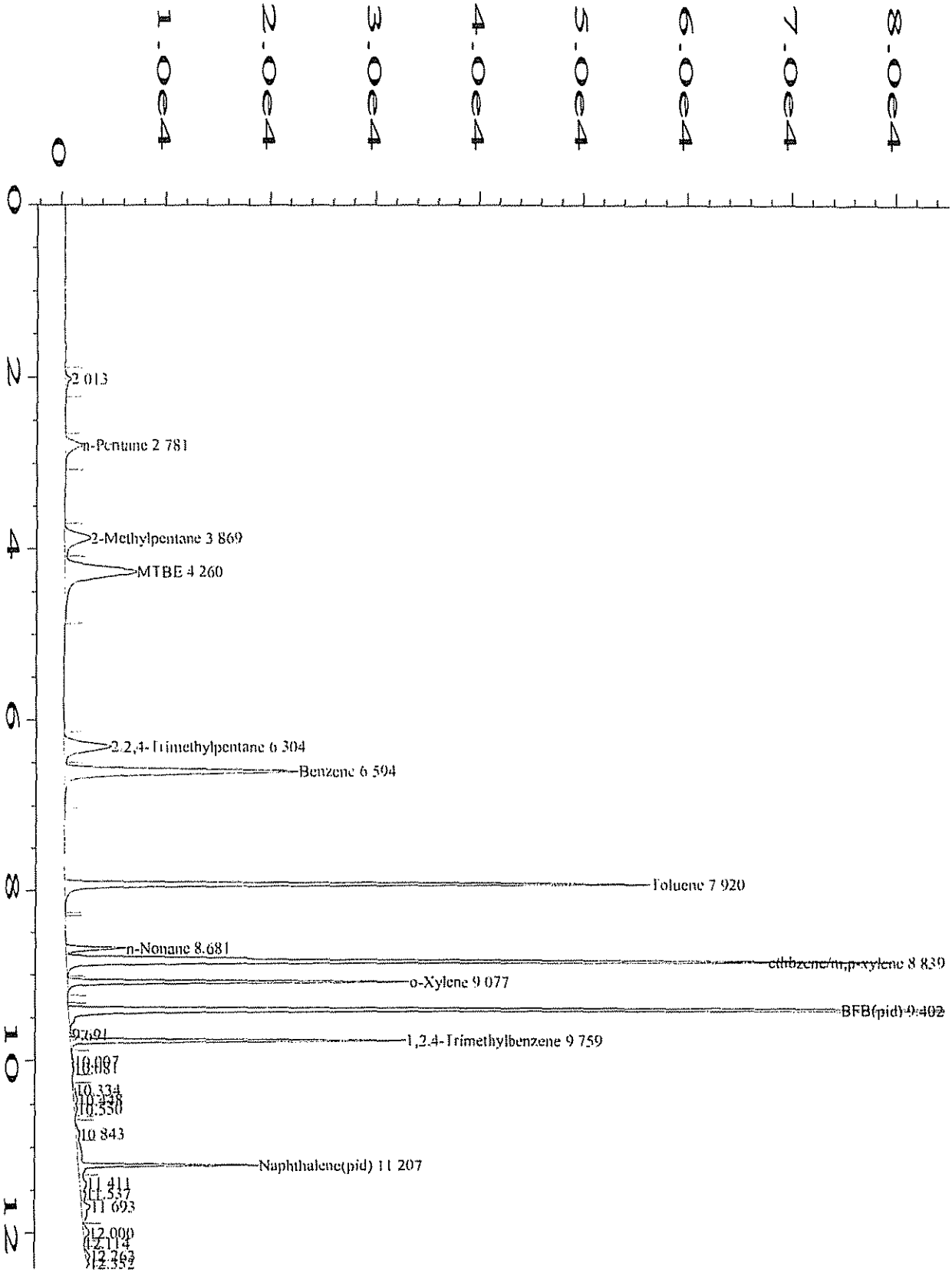
External Standard Report

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

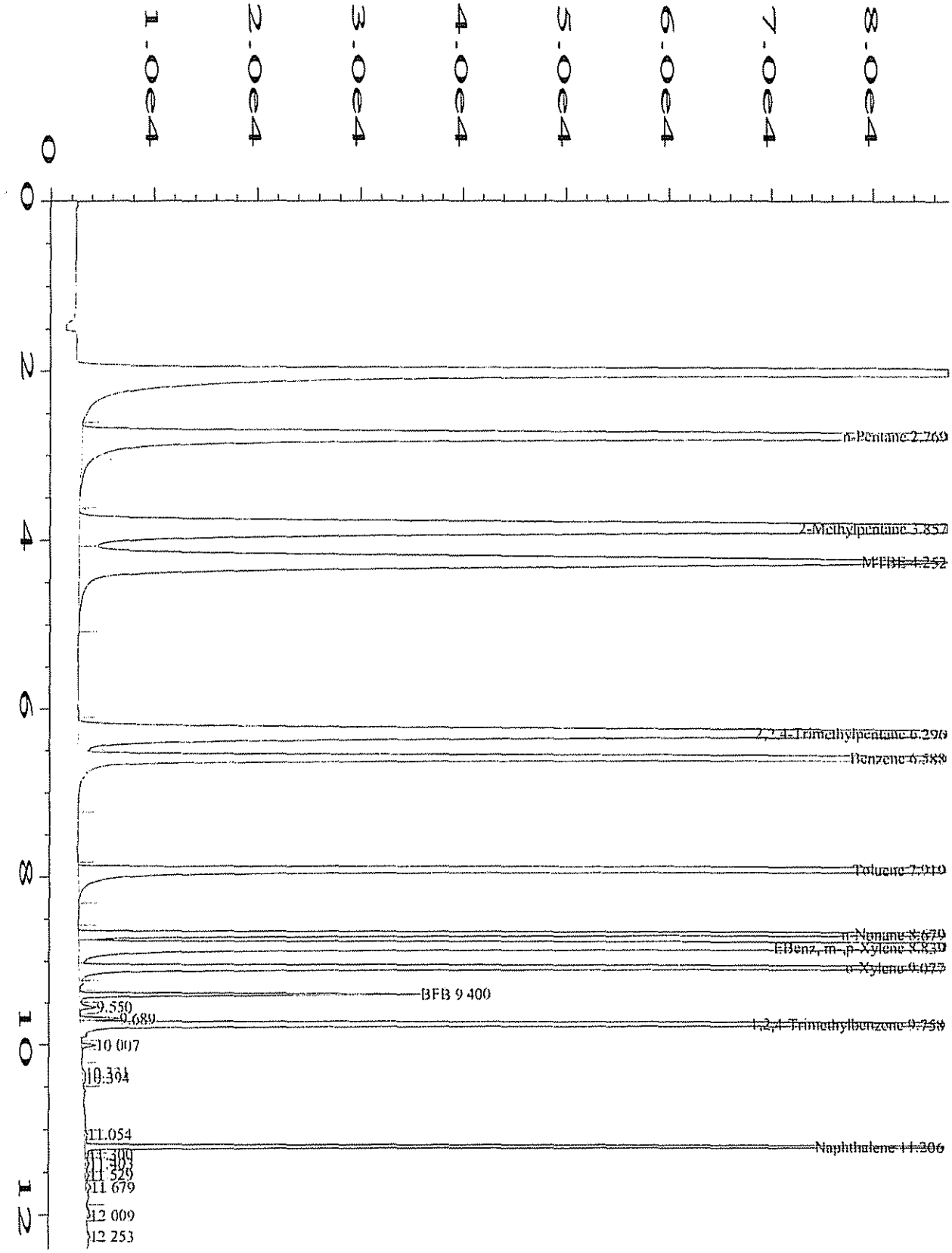
ata File Name : C:\HPCHEM\1\DATA\vp071405\004F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 250
un Time Bar Code:
cquired on : 14 Jul 05 09:40 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_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 *

Calibration table contains at least one peak with amt = 0



ıta File Name	: C:\HPCHEM\1\DATA\vp071405\004F0101.D		
ɔerator	: DCS	Page Number	: 1
ıstrument	: FID/PID	Vial Number	: 4
ımple Name	: V 250	Injection Number	: 1
ın Time Bar Code	:	Sequence Line	: 1
:quired on	: 14 Jul 05 09:40 AM	Instrument Method	: GAS1.MTH
ɜport Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
ıst Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ıltiplier	: 1	ISTD Amount	:

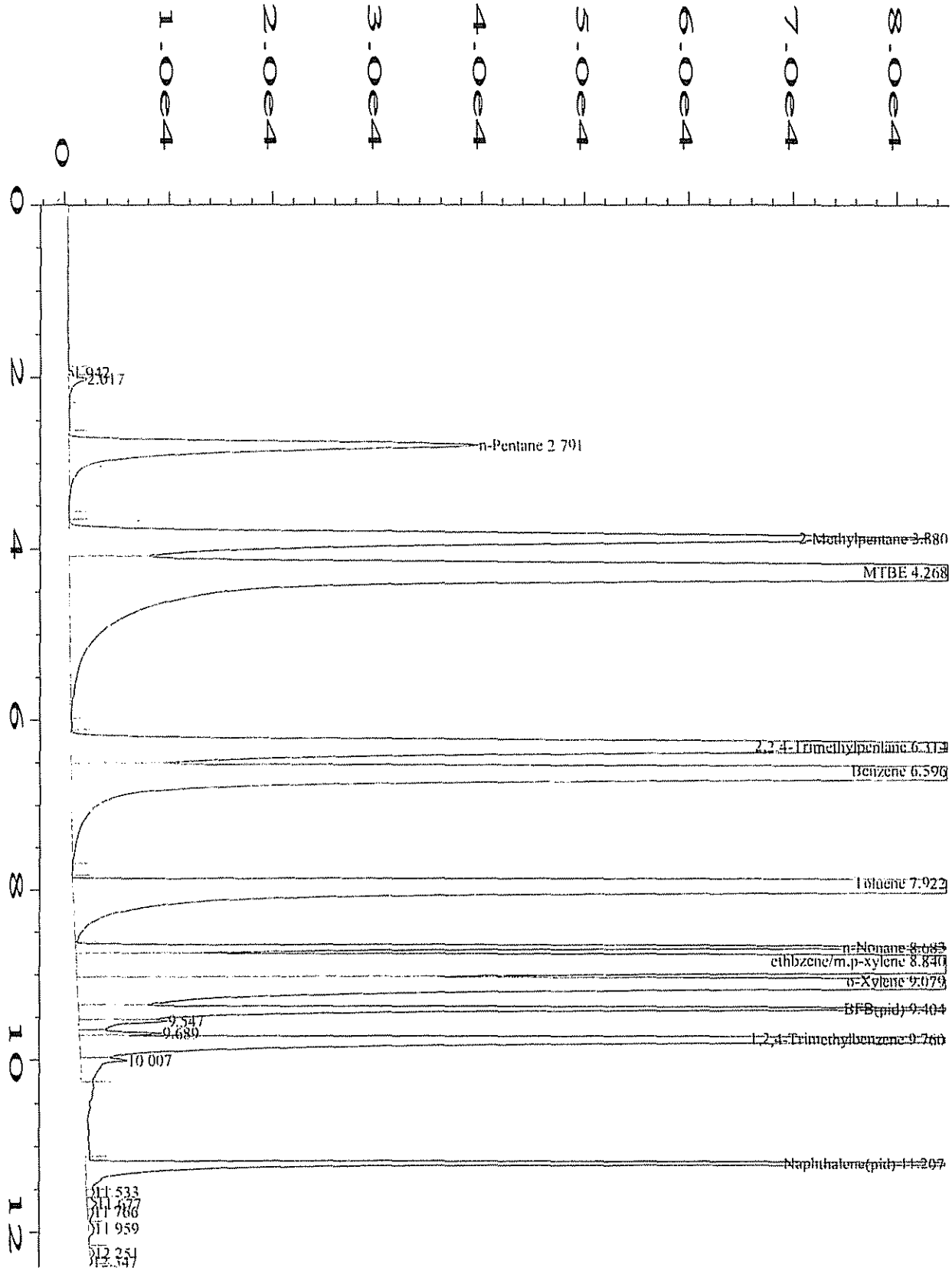
External Standard Report

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	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	:

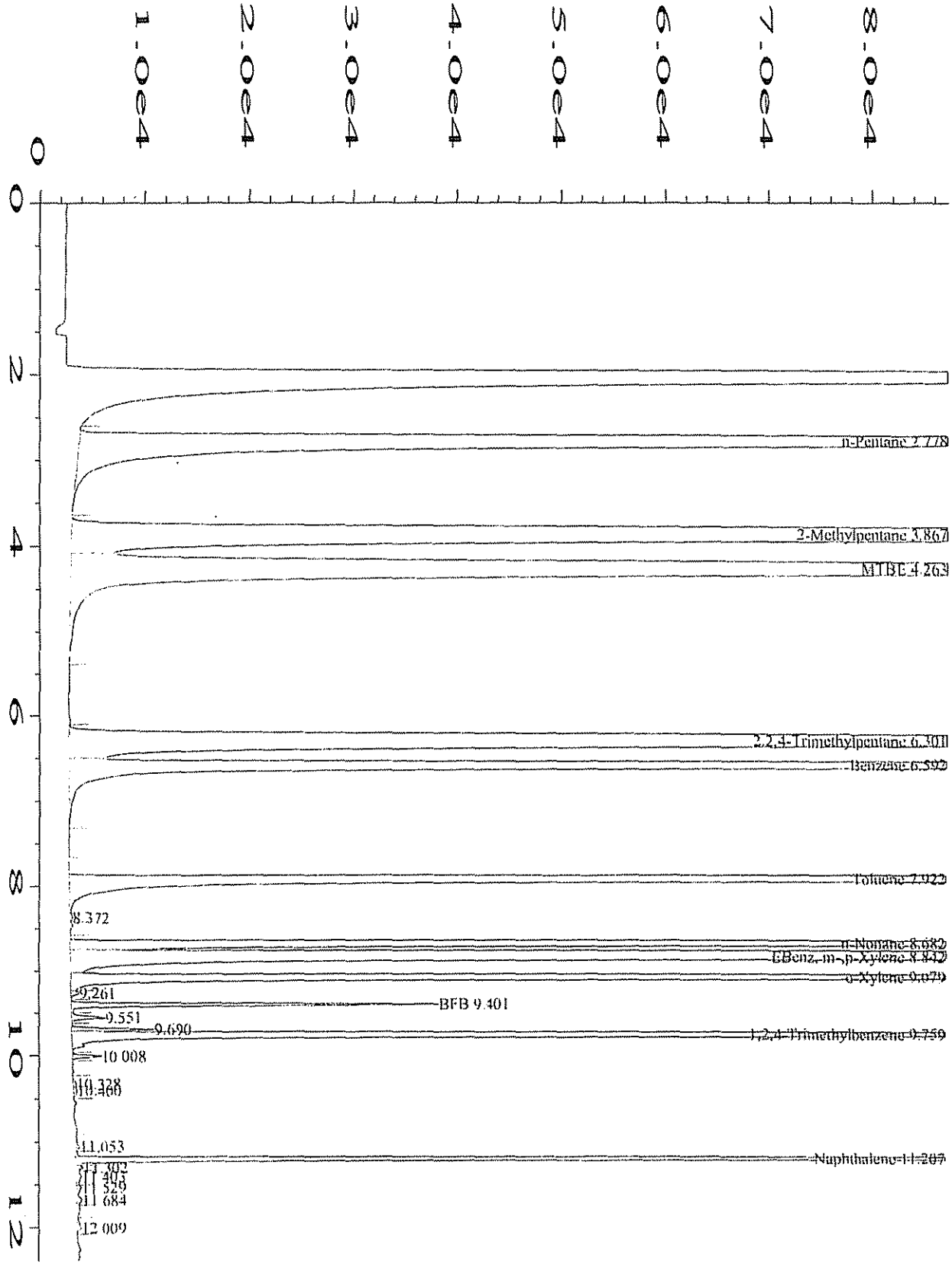
External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\005F0101.D		
erator	: DCS	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_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\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



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	:

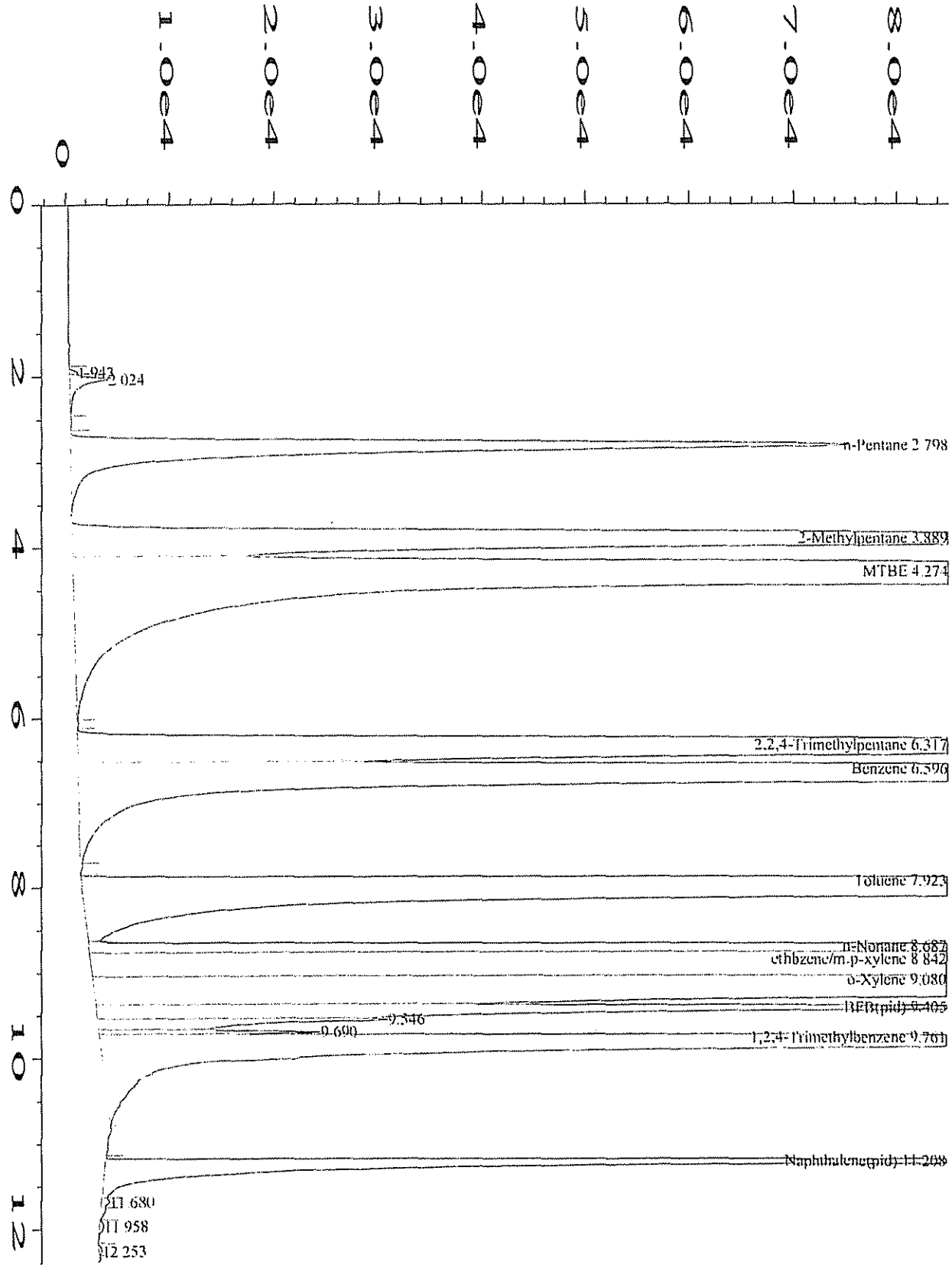
External Standard Report

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
in Time Bar Code:		Sequence Line	: 1
equired 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

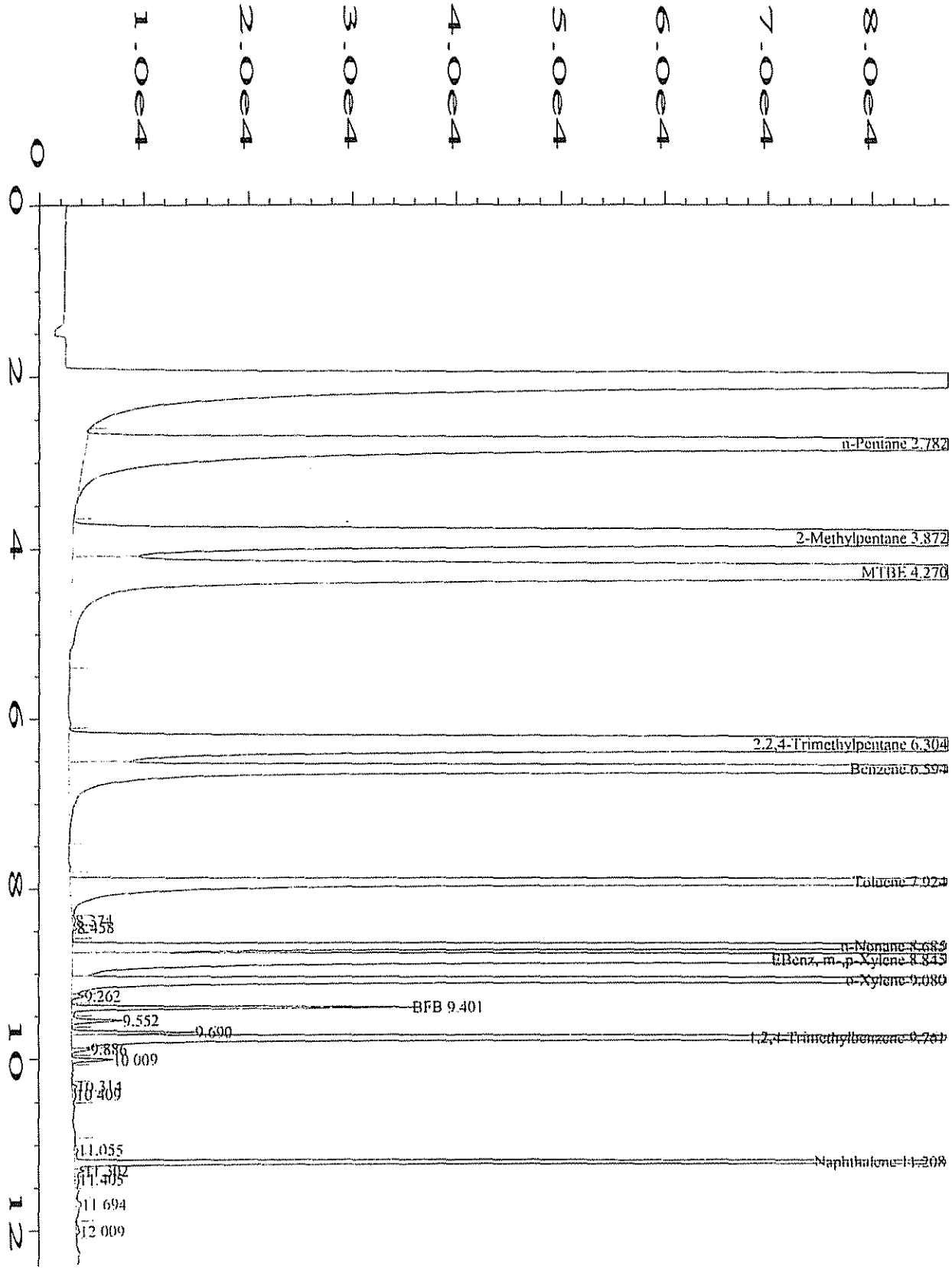
ata File Name : C:\HPCHEM\1\DATA\vp071405\006F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 750
un Time Bar Code:
cquired on : 14 Jul 05 10:30 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

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



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	:

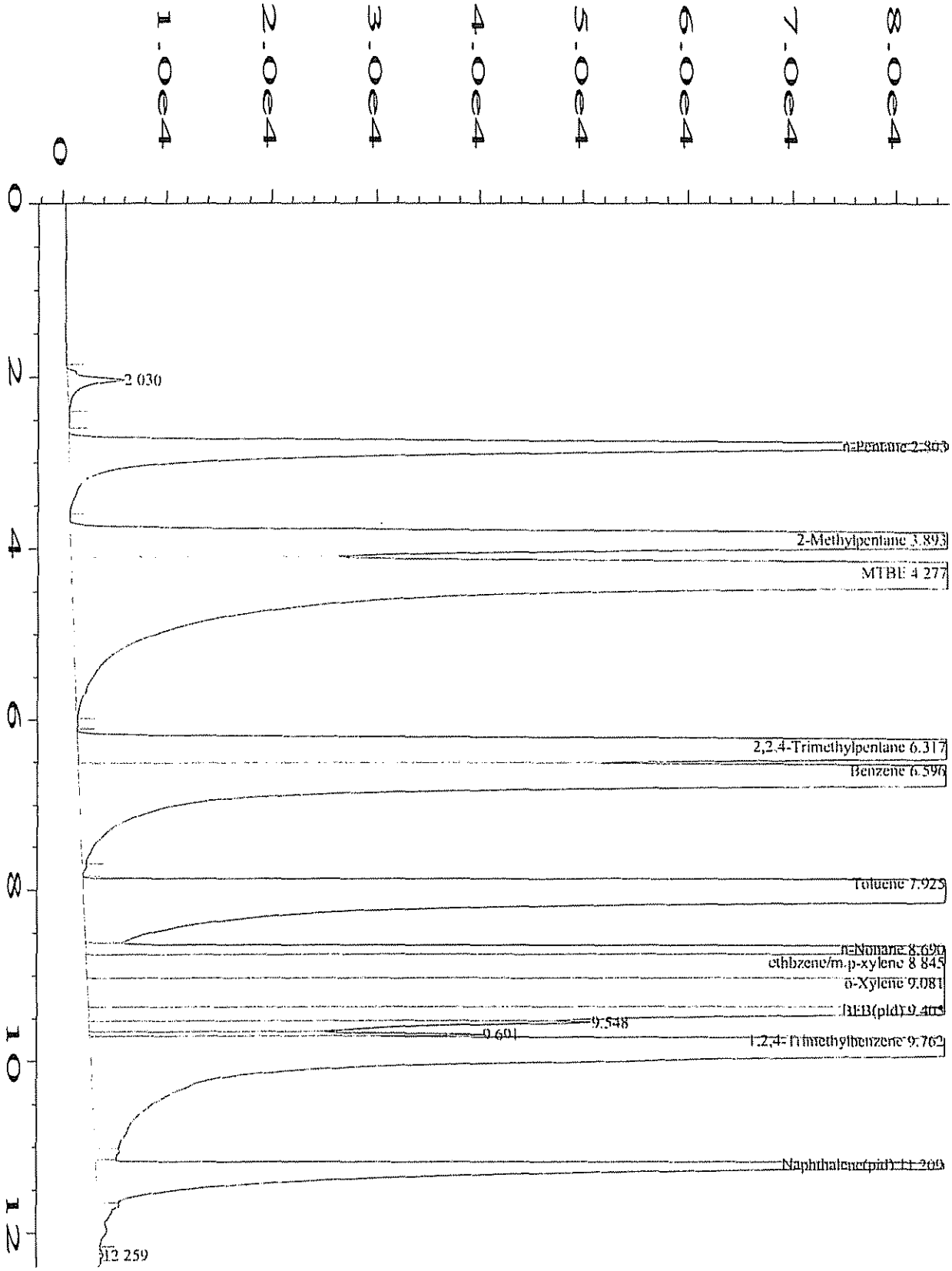
External Standard Report

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

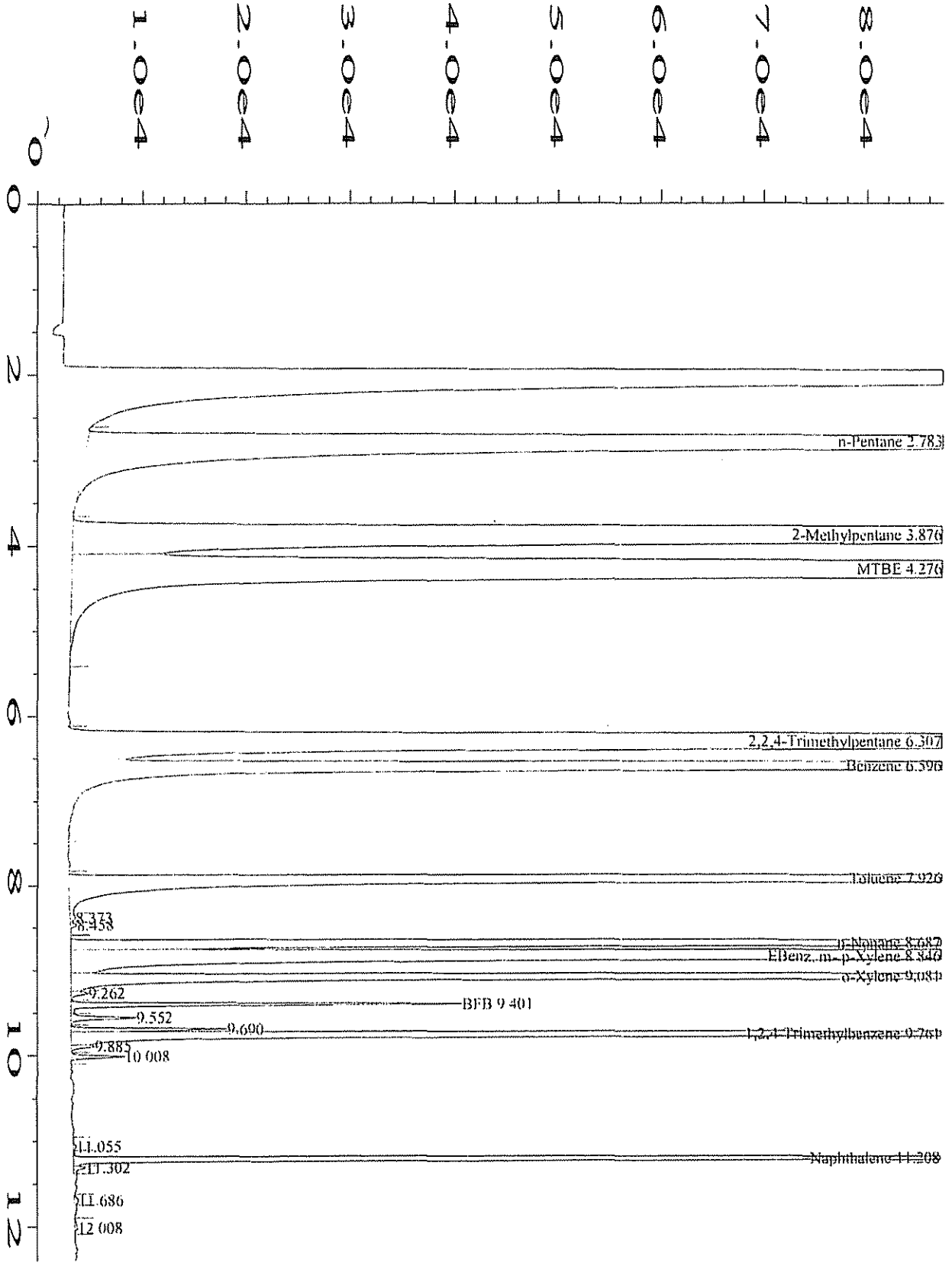
ata File Name : C:\HPCHEM\1\DATA\vp071405\008F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 1000
un Time Bar Code:
cquired on : 14 Jul 05 11:21 AM
eport Created on: 07 Sep 05 02:35 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_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



ta File Name	: C:\HPCHEM\1\DATA\vp071405\008F0101.D		
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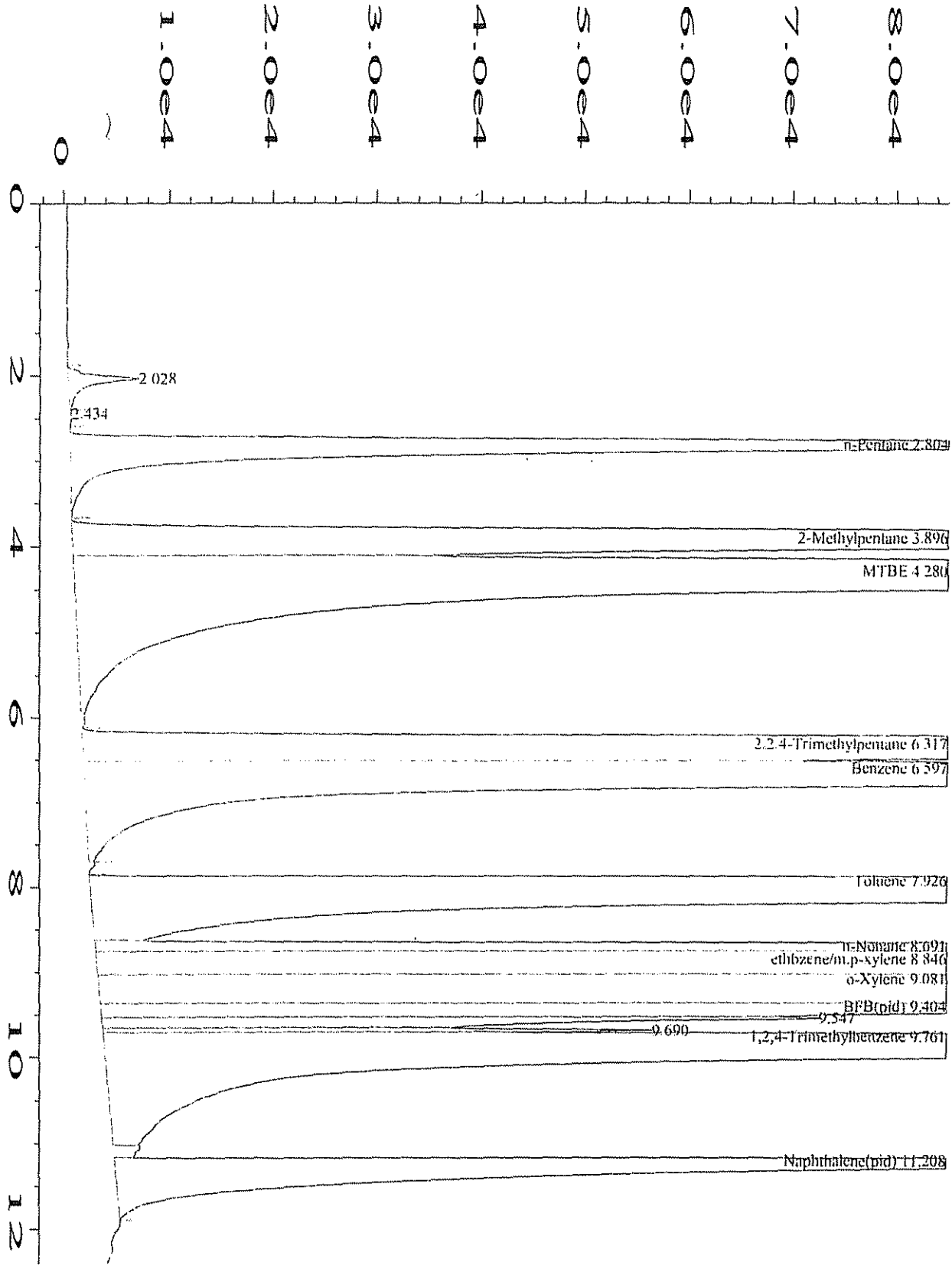
strument	: FID/PID	Vial Number	: 8
mple Name	: V 1000	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 14 Jul 05 11:21 AM	Instrument Method	: GAS1.MTH
port Created on	: 07 Sep 05 02:35 PM	Analysis Method	: VPH_FID.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	:

External Standard Report

ta File Name	: C:\HPCHEM\1\DATA\vp071405\008R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 8
mple Name	: V 1000	Injection Number	: 1
n 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
ltiplier	: 1	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: 08/09/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	13.3
C_9-C_{12} Aliphatics	500	50	6.2
C_9-C_{10} Aromatics	500	50	-7.2

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

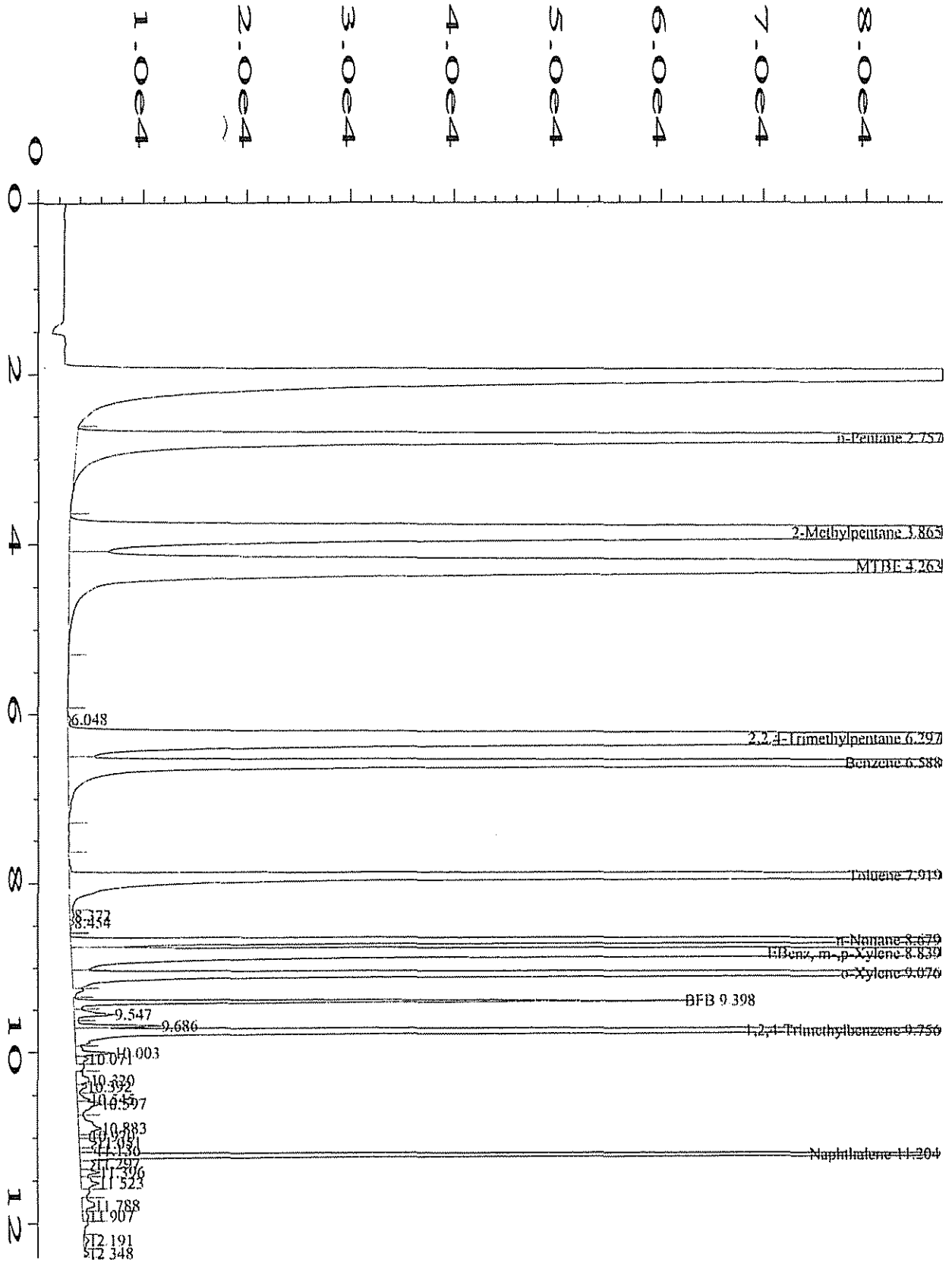
ata File Name : C:\HPCHEM\1\DATA\vp080905\001F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 09 Aug 05 08:33 AM
eport Created on: 09 Aug 05 10:40 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 1
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\vp080905\001F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.757	1240632	BV	0.091	1	2818.595	n-Pentane
3.865	1904491	PV	0.118	1	2769.755	2-Methylpentane
4.263	1667588	VB	0.136	1	48672.55	MTBE
6.297	1940335	VV	0.104	1	4784.579	2,2,4-Trimethylpentane
6.588	1446280	VB	0.057	1	1392.817	Benzene
7.919	4055467	BV	0.038	1	4785.290	Toluene
8.679	1613630	BV	0.035	1	2513.074	n-Nonane
8.839	6243900	VV	0.037	1	8048.411	EBenz, m-,p-Xylene
9.076	2430538	VV	0.033	1	3147.446	o-Xylene
9.398	110317	VV	0.029	1	424.939	BFB
9.756	2094004	VV	0.031	1	3008.851	1,2,4-Trimethylbenzene
11.204	676417	VV	0.027	1	-5649.329	Naphthalene
6.048	1424	BV	0.073		14.237	* uncalibrated *
8.372	2246	VV	0.070		22.457	* uncalibrated *
8.454	1401	VB	0.051		14.010	* uncalibrated *
9.547	13405	VV	0.048		134.054	* uncalibrated *
9.686	16830	VV	0.031		168.300	* uncalibrated *
10.003	10532	VV	0.041		105.320	* uncalibrated *
10.071	4933	VV	0.056		49.325	* uncalibrated *
10.320	7918	VV	0.083		79.176	* uncalibrated *
10.392	3538	VV	0.051		35.379	* uncalibrated *
10.545	4006	VV	0.045		40.060	* uncalibrated *
10.597	11194	VV	0.067		111.939	* uncalibrated *
10.883	16816	VV	0.097		168.156	* uncalibrated *
10.970	2643	VV	0.041		26.428	* uncalibrated *
11.051	8053	VV	0.069		80.533	* uncalibrated *
11.136	4416	VV	0.049		44.156	* uncalibrated *
11.297	7438	VV	0.069		74.382	* uncalibrated *
11.396	5765	VV	0.045		57.653	* uncalibrated *
11.523	9022	VV	0.070		90.221	* uncalibrated *
11.788	7373	VV	0.078		73.730	* uncalibrated *
11.907	3045	VV	0.067		30.450	* uncalibrated *
12.191	2389	VV	0.070		23.888	* uncalibrated *
12.348	1200	VBA	0.043		12.004	* uncalibrated *

libration table contains at least one peak with amt = 0



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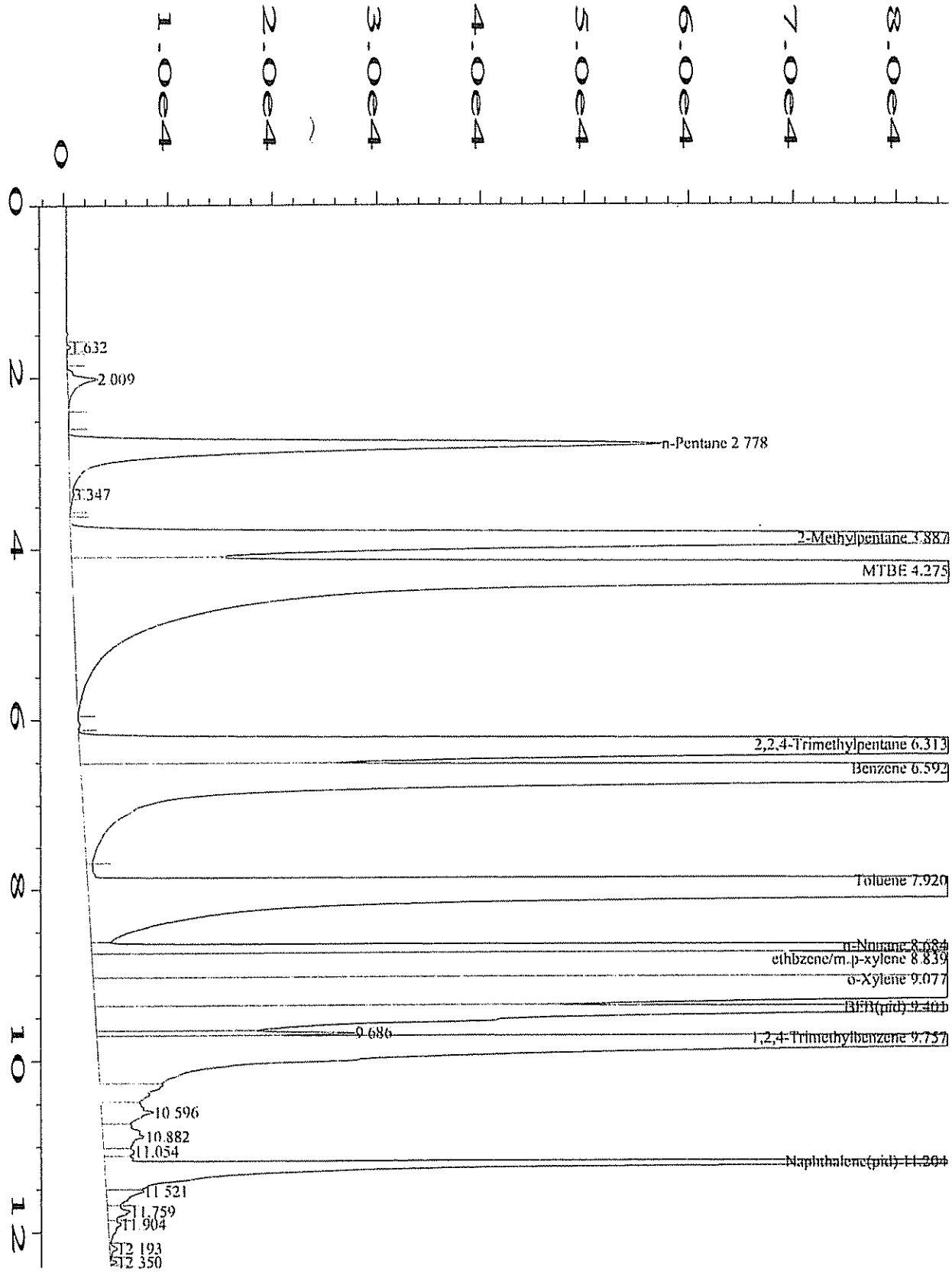
nstrument	: FID/PID	Vial Number	: 1
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 08:33 AM	Instrument Method	: GAS1.MTH
eport Created on	: 09 Aug 05 10:40 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp080905\001R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 1
ample Name	: V 500	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 08:33 AM	Instrument Method	: GAS1.MTH
eport Created on	: 09 Aug 05 10:40 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\vp080905\001R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	483688	BV	0.125	1	77.130	n-Pentane
3.887	1431351	BV	0.145	1	151.574	2-Methylpentane
4.275	6474233	VV	0.166	1	214.785	MTBE
6.313	2826731	PV	0.130	1	185.778	2,2,4-Trimethylpentane
6.592	6946441	VV	0.081	1	87.307	Benzene
7.920	1.19773E+007	VV	0.054	1	293.532	Toluene
8.684	1142961	VV	0.047	1	168.398	n-Nonane
8.839	1.60336E+007	VV	0.052	1	474.015	ethbzene/m,p-xylene
9.077	7789716	VV	0.052	1	201.111	o-Xylene
9.401	1288747	VV	0.058	1	86.739	BFB(pid)
9.757	5132349	VV	0.039	1	167.165	1,2,4-Trimethylbenzene
11.204	1909471	VV	0.031	1	109.094	Naphthalene(pid)
1.632	1052	BB	0.041		10.515	* uncalibrated *
2.009	20569	BB	0.092		205.685	* uncalibrated *
3.347	3303	VB	0.107		33.029	* uncalibrated *
9.686	69162	VV	0.040		691.618	* uncalibrated *
10.596	58967	VV	0.145		589.670	* uncalibrated *
10.882	54783	VV	0.164		547.832	* uncalibrated *
11.054	15070	VV	0.076		150.701	* uncalibrated *
11.521	26508	VV	0.121		265.083	* uncalibrated *
11.759	15391	VV	0.092		153.914	* uncalibrated *
11.904	10256	VV	0.100		102.565	* uncalibrated *
12.193	3448	VV	0.067		34.484	* uncalibrated *
12.350	1901	VBA	0.042		19.010	* uncalibrated *



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:port Created on	: 09 Aug 05 10:40 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

ata File Name : C:\HPCHEM\1\DATA\vp080905\004F0101.D
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ample Name : lcs4080905a
un Time Bar Code:
cquired on : 09 Aug 05 09:50 AM
eport Created on: 09 Aug 05 10:40 AM
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\vp080905\004F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.761	48907	BV	0.086	1	48.782	n-Pentane
3.848	64454	BV	0.129	1	11.448	2-Methylpentane
4.189	66209	VV	0.174	1	155.202	MTBE
6.291	56566	VV	0.112	1	10.865	2,2,4-Trimethylpentane
6.582	62334	VV	0.087	1	7.900	Benzene
7.916	203191	VV	0.040	1	21.569	Toluene
8.676	37158	VV	0.042	1	9.324	n-Nonane
8.835	201948	VV	0.040	1	19.741	EBenz, m-,p-Xylene
9.074	67977	VV	0.036	1	6.749	o-Xylene
9.397	107083	PV	0.029	1	412.481	BFB
9.755	87273	VV	0.033	1	9.289	1,2,4-Trimethylbenzene
11.205	6081	VV	0.028	1	1.435	Naphthalene
2.985	18582	PV	0.074		185.818	* uncalibrated *
3.182	35317	VV	0.115		353.168	* uncalibrated *
4.506	33858	VV	0.112		338.584	* uncalibrated *
4.826	24377	VV	0.175		243.774	* uncalibrated *
5.074	13081	VV	0.116		130.810	* uncalibrated *
5.198	12283	VV	0.111		122.829	* uncalibrated *
5.454	23374	VV	0.108		233.742	* uncalibrated *
5.771	1783	PV	0.090		17.834	* uncalibrated *
5.941	19154	VV	0.087		191.538	* uncalibrated *
6.067	46285	VV	0.123		462.845	* uncalibrated *
6.722	9150	VV	0.074		91.499	* uncalibrated *
6.811	7445	VV	0.066		74.455	* uncalibrated *
6.969	17357	VV	0.108		173.567	* uncalibrated *
7.106	11396	VV	0.071		113.962	* uncalibrated *
7.272	22814	VV	0.073		228.139	* uncalibrated *
7.379	36242	VV	0.076		362.425	* uncalibrated *
7.515	22986	VV	0.090		229.864	* uncalibrated *
7.786	14392	VV	0.065		143.917	* uncalibrated *
8.050	8463	VV	0.122		84.632	* uncalibrated *
8.373	11674	VV	0.065		116.737	* uncalibrated *
8.454	5525	VV	0.047		55.250	* uncalibrated *
9.197	1952	VV	0.036		19.522	* uncalibrated *
9.258	5083	VV	0.037		50.832	* uncalibrated *
9.522	106409	VV	0.047		1064.094	* uncalibrated *
9.686	18327	VV	0.036		183.274	* uncalibrated *
9.887	2425	VV	0.045		24.253	* uncalibrated *
10.005	18433	VV	0.032		184.329	* uncalibrated *
10.108	32670	VV	0.053		326.697	* uncalibrated *
10.177	12084	VV	0.037		120.838	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp080905\004F0101.D
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ıstrument : FID/PID
ımple Name : lcs4080905a
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ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.269	12651	VV	0.040	126.515	* uncalibrated *
10.319	13609	VV	0.036	136.092	* uncalibrated *
10.394	3334	VV	0.043	33.341	* uncalibrated *
10.443	2724	VV	0.034	27.241	* uncalibrated *
10.555	22956	VV	0.064	229.564	* uncalibrated *
10.640	2217	VV	0.036	22.173	* uncalibrated *
10.758	12601	VV	0.063	126.010	* uncalibrated *
10.850	6523	VV	0.034	65.231	* uncalibrated *
10.968	6521	VV	0.063	65.206	* uncalibrated *
11.052	3586	VV	0.068	35.859	* uncalibrated *
11.347	1192	VV	0.040	11.924	* uncalibrated *
11.478	1017	VV	0.050	10.174	* uncalibrated *
11.759	2762	VV	0.043	27.623	* uncalibrated *

.libration table contains at least one peak with amt = 0

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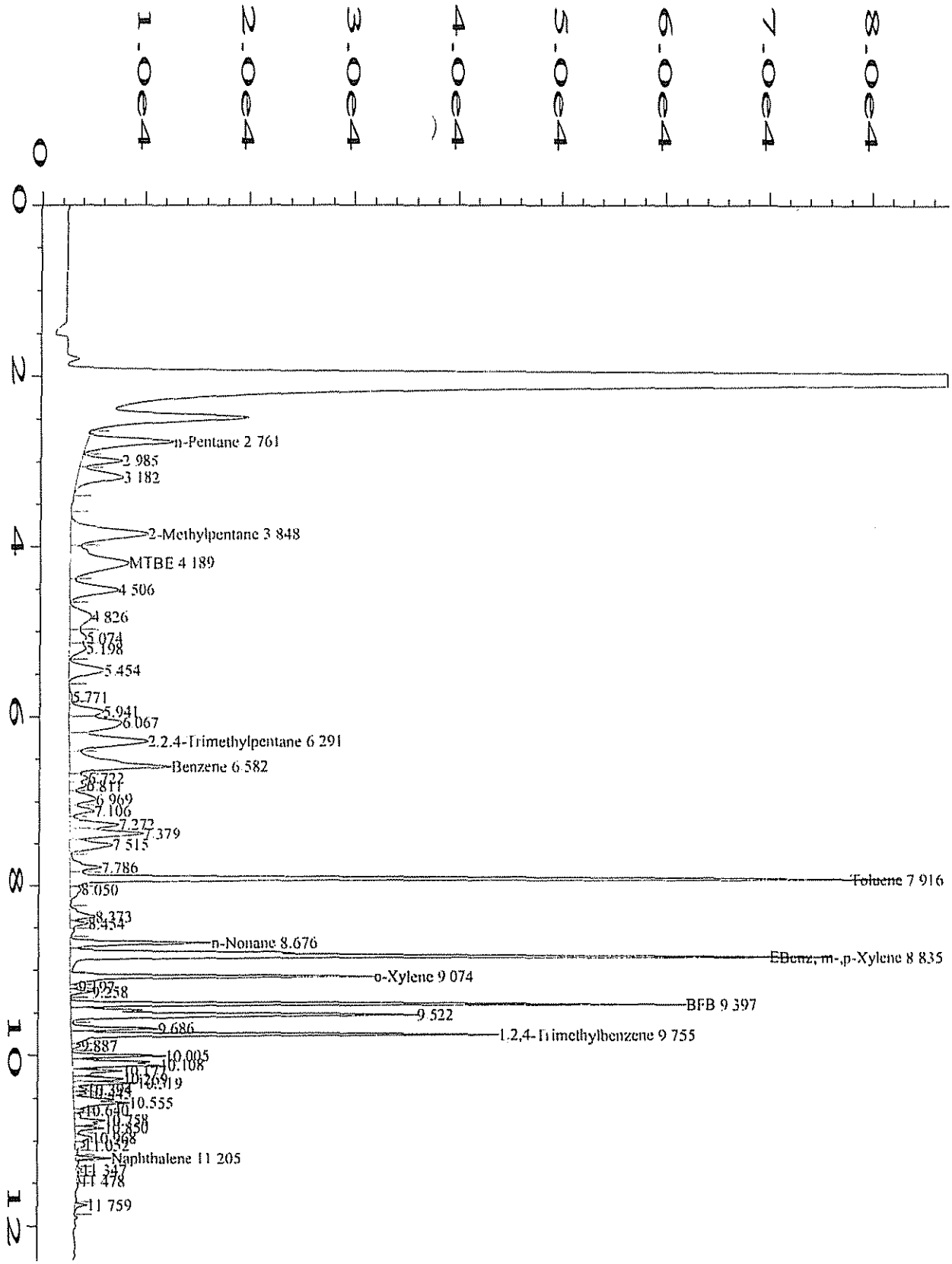

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Instrument	: FID/PID	Vial Number	: 4
Sample Name	: lcs4080905a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 09 Aug 05 09:50 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Aug 05 10:40 AM	Analysis Method	: VPH_FID.MTH
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\vp080905\004R0101.D
erator : DCS
istrument : FID/PID
mple Name : lcs4080905a
in Time Bar Code:
quired on : 09 Aug 05 09:50 AM
port Created on: 09 Aug 05 10:40 AM
ist 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 :

g. 2 in C:\HPCHEM\1\DATA\vp080905\004R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.807	58501	VV	0.128	1	9.329	n-Pentane
3.861	51166	VV	0.156	1	5.418	2-Methylpentane
4.246	80126	VV	0.155	1	2.658	MTBE
6.300	65826	VV	0.125	1	4.326	2,2,4-Trimethylpentane
6.592	184653	VV	0.078	1	2.321	Benzene
7.919	497844	VV	0.044	1	12.201	Toluene
8.679	18789	PV	0.046	1	2.768	n-Nonane
8.837	421178	VV	0.042	1	12.452	ethbzene/m,p-xylene
9.075	117270	VV	0.037	1	3.028	o-Xylene
9.400	527392	PV	0.049	1	35.496	BFB(pid)
9.756	157288	VV	0.034	1	5.123	1,2,4-Trimethylbenzene
11.204	18621	VV	0.035	1	1.064	Naphthalene(pid)
1.954	6221	BV	0.048		62.207	* uncalibrated *
2.043	46309	VV	0.078		463.086	* uncalibrated *
2.157	26617	VV	0.079		266.170	* uncalibrated *
2.506	65282	VV	0.140		652.824	* uncalibrated *
2.991	55843	VV	0.087		558.435	* uncalibrated *
3.184	87909	VV	0.144		879.094	* uncalibrated *
4.045	17802	VV	0.095		178.020	* uncalibrated *
4.490	31594	VV	0.139		315.943	* uncalibrated *
4.824	41625	VV	0.179		416.253	* uncalibrated *
5.068	11878	VV	0.098		118.783	* uncalibrated *
5.202	20121	VV	0.122		201.210	* uncalibrated *
5.464	13152	VV	0.116		131.518	* uncalibrated *
5.770	2121	PV	0.091		21.211	* uncalibrated *
6.065	55383	VV	0.135		553.829	* uncalibrated *
6.810	10927	VV	0.066		109.265	* uncalibrated *
6.980	14650	VV	0.096		146.504	* uncalibrated *
7.112	14290	VV	0.073		142.897	* uncalibrated *
7.278	24618	VV	0.070		246.180	* uncalibrated *
7.380	42524	VV	0.083		425.241	* uncalibrated *
7.521	22937	VV	0.094		229.369	* uncalibrated *
7.785	13060	VV	0.083		130.598	* uncalibrated *
8.365	10171	VV	0.083		101.708	* uncalibrated *
8.456	5849	VV	0.060		58.493	* uncalibrated *
9.197	1420	VV	0.036		14.196	* uncalibrated *
9.259	7205	VV	0.038		72.046	* uncalibrated *
9.524	178012	VV	0.052		1780.121	* uncalibrated *
9.686	28185	VV	0.037		281.847	* uncalibrated *
9.887	4865	VV	0.053		48.646	* uncalibrated *
10.005	29141	VV	0.035		291.415	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080905\004R0101.D
perator : DCS
nstrument : FID/PID
ample Name : lcs4080905a
un Time Bar Code:
cquired on : 09 Aug 05 09:50 AM
eport Created on: 09 Aug 05 10:40 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.108	53873	VV	0.052	538.725	* uncalibrated *
10.177	20017	VV	0.038	200.168	* uncalibrated *
10.270	19635	VV	0.041	196.350	* uncalibrated *
10.319	20156	VV	0.037	201.560	* uncalibrated *
10.395	4795	VV	0.044	47.952	* uncalibrated *
10.443	4885	VV	0.037	48.852	* uncalibrated *
10.556	39986	VV	0.057	399.861	* uncalibrated *
10.641	3708	VV	0.038	37.077	* uncalibrated *
10.758	21475	VV	0.073	214.745	* uncalibrated *
10.850	11059	VV	0.038	110.587	* uncalibrated *
10.971	11997	VV	0.067	119.969	* uncalibrated *
11.034	2908	VV	0.033	29.083	* uncalibrated *
11.062	6217	VV	0.073	62.167	* uncalibrated *
11.348	3947	VV	0.052	39.474	* uncalibrated *
11.479	6038	VV	0.079	60.381	* uncalibrated *
11.758	6658	VV	0.048	66.581	* uncalibrated *
11.904	2160	VV	0.036	21.598	* uncalibrated *
12.255	1030	PV	0.068	10.303	* uncalibrated *
12.351	278	PBA	0.027	2.783	* uncalibrated *

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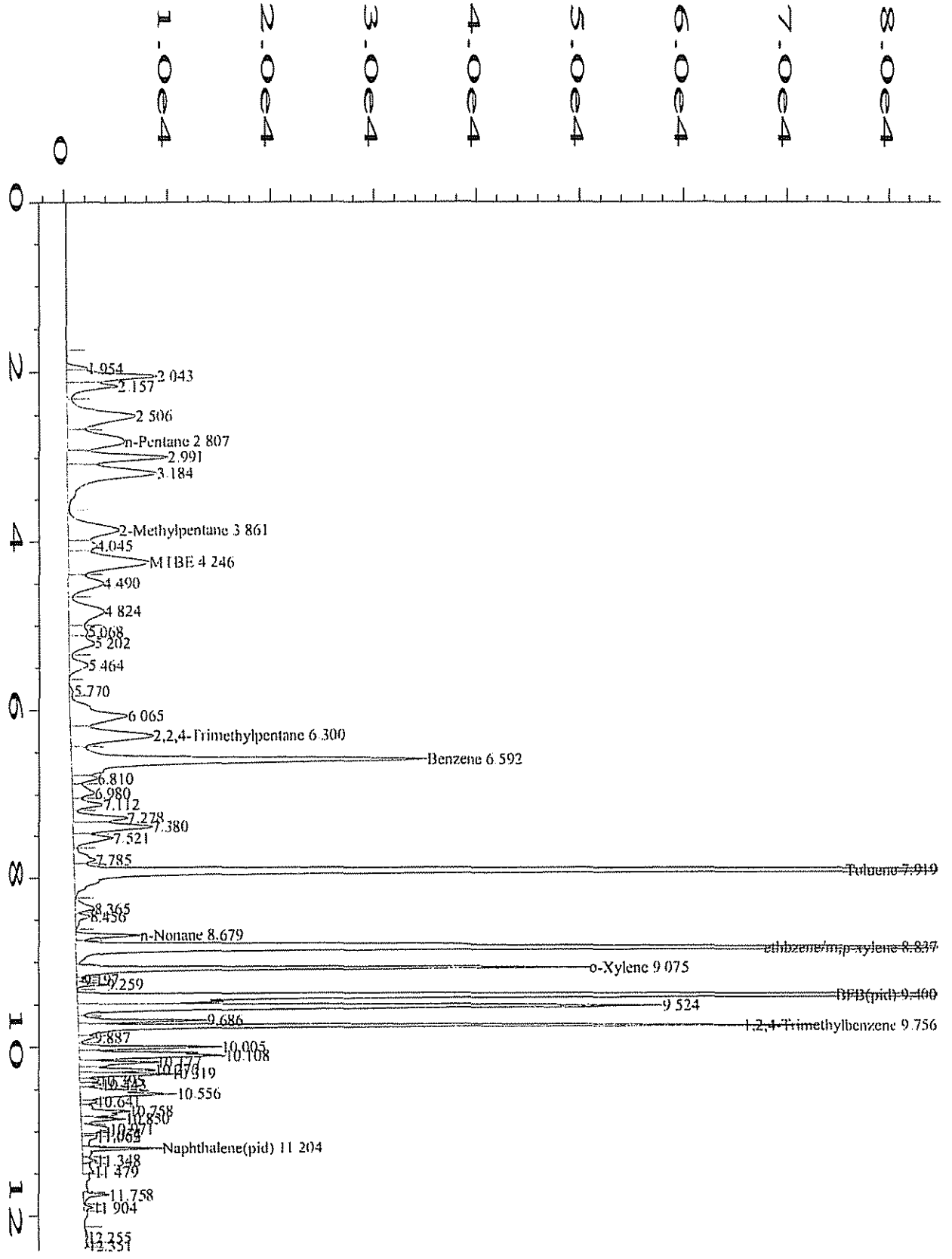

ata File Name	: C:\HPCHEM\1\DATA\vp080905\004R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 4
ample Name	: lcs4080905a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 09:50 AM	Instrument Method	: GAS1.MTH
eport Created on	: 09 Aug 05 10:40 AM	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\vp080905\017F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : G510-241-8A x5 ms
Run Time Bar Code: 148465
Acquired on : 09 Aug 05 05:25 PM
Report Created on: 10 Aug 05 08:27 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 17
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\vp080905\017F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.767	69691	BV	0.088	1	69.513	n-Pentane
3.862	82422	PV	0.131	1	14.639	2-Methylpentane
4.203	76781	VV	0.167	1	179.985	MTBE
6.297	72591	VV	0.112	1	13.943	2,2,4-Trimethylpentane
6.588	75885	VV	0.084	1	9.618	Benzene
7.918	240926	VV	0.041	1	25.575	Toluene
8.685	29013	PV	0.058	1	7.280	n-Nonane
8.836	272630	VV	0.047	1	26.651	EBenz, m-,p-Xylene
9.077	98416	VV	0.044	1	9.771	o-Xylene
9.397	208963	VV	0.037	1	804.930	BFB
9.757	352619	VV	0.067	1	37.530	1,2,4-Trimethylbenzene
11.161	146568	VV	0.067	1	297.618	Naphthalene
2.997	25548	PV	0.075		255.479	* uncalibrated *
3.196	43959	VV	0.114		439.587	* uncalibrated *
4.069	13544	VV	0.078		135.442	* uncalibrated *
4.520	42332	VV	0.109		423.318	* uncalibrated *
4.841	29592	PV	0.177		295.916	* uncalibrated *
5.087	16254	VV	0.114		162.537	* uncalibrated *
5.209	16065	VV	0.112		160.648	* uncalibrated *
5.465	32579	VV	0.107		325.787	* uncalibrated *
5.782	1916	PV	0.089		19.161	* uncalibrated *
5.949	24772	VV	0.085		247.721	* uncalibrated *
6.076	58767	VV	0.121		587.669	* uncalibrated *
6.728	9113	VV	0.071		91.131	* uncalibrated *
6.817	7485	VV	0.063		74.846	* uncalibrated *
6.971	24098	VV	0.101		240.979	* uncalibrated *
7.111	14111	VV	0.068		141.106	* uncalibrated *
7.277	31145	VV	0.070		311.454	* uncalibrated *
7.384	53753	VV	0.075		537.535	* uncalibrated *
7.515	37481	VV	0.077		374.808	* uncalibrated *
7.788	24235	PV	0.068		242.351	* uncalibrated *
8.043	14231	VV	0.054		142.306	* uncalibrated *
8.124	11693	VV	0.056		116.930	* uncalibrated *
8.363	66349	VV	0.086		663.489	* uncalibrated *
8.453	26213	VV	0.044		262.131	* uncalibrated *
8.538	4012	VV	0.043		40.124	* uncalibrated *
8.927	52548	VV	0.066		525.478	* uncalibrated *
9.017	46623	VV	0.045		466.227	* uncalibrated *
9.122	90210	VV	0.046		902.103	* uncalibrated *
9.195	27872	VV	0.043		278.721	* uncalibrated *
9.306	27583	VV	0.064		275.832	* uncalibrated *
9.462	113476	VV	0.054		1134.756	* uncalibrated *
9.519	234363	VV	0.088		2343.631	* uncalibrated *

External Standard Report

ıta File Name : C:\HPCHEM\1\DATA\vp080905\017F0101.D
ɔerator : DCS
ıstrument : FID/PID
ımple Name : 148465 x5 ms
ın Time Bar Code:
:quired on : 09 Aug 05 05:25 PM
ɜport Created on: 10 Aug 05 08:27 AM
ıst Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 1
Vial Number : 17
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\vp080905\017F0101.D

ɜt Time	Area	Type	Width	Ref#	ug/L	Name
2.767	69691	BV	0.088	1	69.513	n-Pentane
3.862	82422	PV	0.131	1	14.639	2-Methylpentane
4.203	76781	VV	0.167	1	179.985	MTBE
6.297	72591	VV	0.112	1	13.943	2,2,4-Trimethylpentane
6.588	75885	VV	0.084	1	9.618	Benzene
7.918	240926	VV	0.041	1	25.575	Toluene
8.685	29013	PV	0.058	1	7.280	n-Nonane
8.836	272630	VV	0.047	1	26.651	EBenz, m-,p-Xylene
9.077	98416	VV	0.044	1	9.771	o-Xylene
9.397	208963	VV	0.037	1	804.930	BFB
9.757	352619	VV	0.067	1	37.530	1,2,4-Trimethylbenzene
11.161	146568	VV	0.067	1	297.618	Naphthalene
2.997	25548	PV	0.075		255.479	* uncalibrated *
3.196	43959	VV	0.114		439.587	* uncalibrated *
4.069	13544	VV	0.078		135.442	* uncalibrated *
4.520	42332	VV	0.109		423.318	* uncalibrated *
4.841	29592	PV	0.177		295.916	* uncalibrated *
5.087	16254	VV	0.114		162.537	* uncalibrated *
5.209	16065	VV	0.112		160.648	* uncalibrated *
5.465	32579	VV	0.107		325.787	* uncalibrated *
5.782	1916	PV	0.089		19.161	* uncalibrated *
5.949	24772	VV	0.085		247.721	* uncalibrated *
6.076	58767	VV	0.121		587.669	* uncalibrated *
6.728	9113	VV	0.071		91.131	* uncalibrated *
6.817	7485	VV	0.063		74.846	* uncalibrated *
6.971	24098	VV	0.101		240.979	* uncalibrated *
7.111	14111	VV	0.068		141.106	* uncalibrated *
7.277	31145	VV	0.070		311.454	* uncalibrated *
7.384	53753	VV	0.075		537.535	* uncalibrated *
7.515	37481	VV	0.077		374.808	* uncalibrated *
7.788	24235	PV	0.068		242.351	* uncalibrated *
8.043	14231	VV	0.054		142.306	* uncalibrated *
8.124	11693	VV	0.056		116.930	* uncalibrated *
8.363	66349	VV	0.086		663.489	* uncalibrated *
8.453	26213	VV	0.044		262.131	* uncalibrated *
8.538	4012	VV	0.043		40.124	* uncalibrated *
8.927	52548	VV	0.066		525.478	* uncalibrated *
9.017	46623	VV	0.045		466.227	* uncalibrated *
9.122	90210	VV	0.046		902.103	* uncalibrated *
9.195	27872	VV	0.043		278.721	* uncalibrated *
9.306	27583	VV	0.064		275.832	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp080905\017F0101.D
erator : DCS
strument : FID/PID
mple Name : 148465 x5 ms
n Time Bar Code:
quired on : 09 Aug 05 05:25 PM
port Created on: 10 Aug 05 08:27 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

9.462	113476	VV	0.054	1134.756	* uncalibrated *
9.519	234363	VV	0.088	2343.631	* uncalibrated *
9.642	42992	VV	0.042	429.924	* uncalibrated *
9.687	48944	VV	0.042	489.440	* uncalibrated *
9.998	160239	VV	0.054	1602.390	* uncalibrated *
10.070	140224	VV	0.049	1402.243	* uncalibrated *
10.166	259747	VV	0.073	2597.466	* uncalibrated *
10.274	52792	VV	0.048	527.922	* uncalibrated *
10.325	77599	VV	0.059	775.994	* uncalibrated *
10.446	224819	VV	0.069	2248.192	* uncalibrated *
10.576	333401	VV	0.087	3334.007	* uncalibrated *
10.750	75708	VV	0.051	757.081	* uncalibrated *
10.820	144606	VV	0.065	1446.062	* uncalibrated *
10.941	223834	VV	0.102	2238.343	* uncalibrated *
11.050	75476	VV	0.039	754.761	* uncalibrated *
11.116	76791	VV	0.052	767.908	* uncalibrated *
11.273	77547	VV	0.057	775.470	* uncalibrated *
11.399	163332	VV	0.101	1633.321	* uncalibrated *
11.527	207090	VV	0.076	2070.901	* uncalibrated *
11.624	115970	VV	0.079	1159.705	* uncalibrated *
11.769	120186	VV	0.056	1201.862	* uncalibrated *
11.845	48180	VV	0.049	481.796	* uncalibrated *
11.930	70512	VV	0.053	705.123	* uncalibrated *
11.992	93424	VV	0.080	934.237	* uncalibrated *
12.171	44871	VV	0.068	448.712	* uncalibrated *
12.259	14692	VV	0.042	146.922	* uncalibrated *
12.332	14831	VBA	0.038	148.315	* uncalibrated *

libration table contains at least one peak with amt = 0

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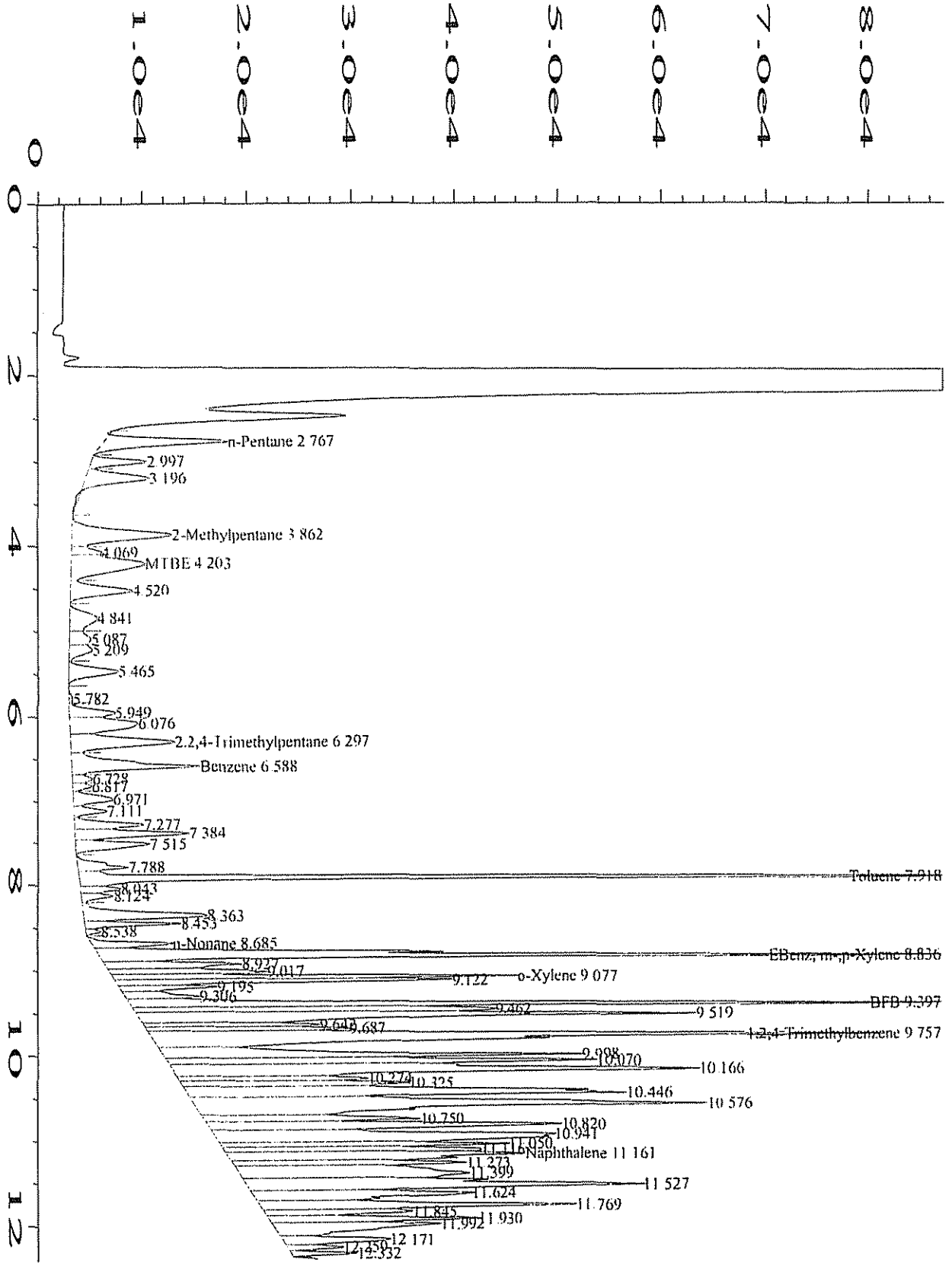


ata File Name	: C:\HPCHEM\1\DATA\vp080905\017F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 17
ample Name	: 148465 x5 ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 05:25 PM	Instrument Method	: GAS1.MTH
eport Created on	: 10 Aug 05 08:27 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\vp080905\017R0101.D
erator : DCS
strument : FID/PID
mple Name : 148465 x5 ms
n Time Bar Code:
quired on : 09 Aug 05 05:25 PM
port Created on: 10 Aug 05 08:27 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

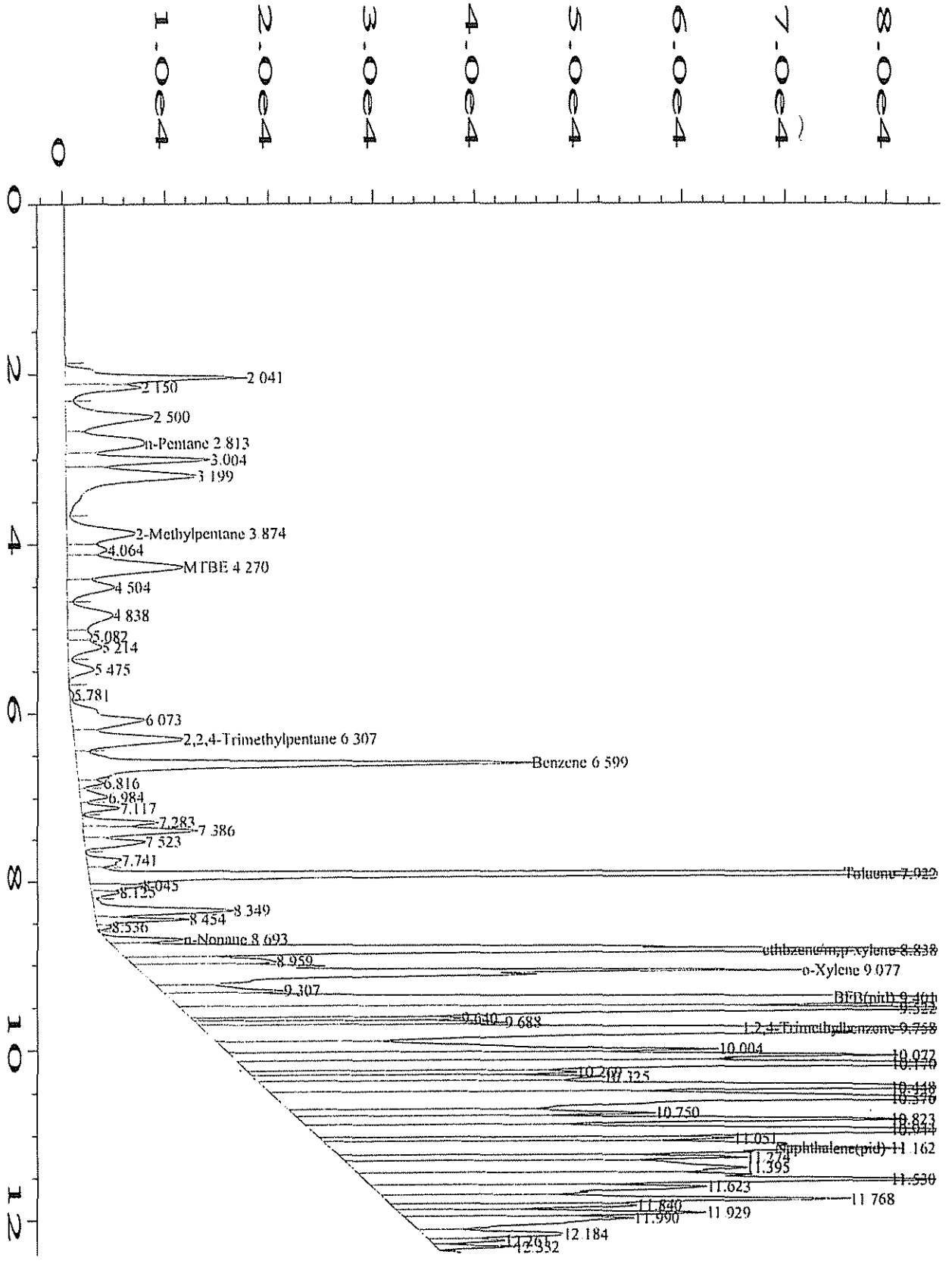
g. 2 in C:\HPCHEM\1\DATA\vp080905\017R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.813	81513	VV	0.145	1	12.998	n-Pentane
3.874	69500	VV	0.154	1	7.360	2-Methylpentane
4.270	116155	VV	0.154	1	3.853	MTBE
6.307	86317	VV	0.125	1	5.673	2,2,4-Trimethylpentane
6.599	230457	VV	0.077	1	2.897	Benzene
7.922	573471	VV	0.044	1	14.054	Toluene
8.693	26875	PV	0.056	1	3.960	n-Nonane
8.838	527571	VV	0.046	1	15.597	ethbzene/m,p-xylene
9.077	358793	VV	0.074	1	9.263	o-Xylene
9.401	909271	VV	0.059	1	61.198	BFB(pid)
9.758	588464	VV	0.069	1	19.167	1,2,4-Trimethylbenzene
11.162	422008	VV	0.097	1	24.111	Naphthalene(pid)
2.041	93224	VV	0.073		932.243	* uncalibrated *
2.150	42883	VV	0.083		428.834	* uncalibrated *
2.500	83861	VV	0.136		838.613	* uncalibrated *
3.004	82362	VV	0.089		823.619	* uncalibrated *
3.199	134630	VV	0.154		1346.302	* uncalibrated *
4.064	25721	VV	0.097		257.213	* uncalibrated *
4.504	42537	VV	0.139		425.366	* uncalibrated *
4.838	53578	VV	0.183		535.779	* uncalibrated *
5.082	15166	VV	0.093		151.663	* uncalibrated *
5.214	27364	VV	0.125		273.641	* uncalibrated *
5.475	18390	VV	0.114		183.905	* uncalibrated *
5.781	1915	PV	0.083		19.147	* uncalibrated *
6.073	69194	VV	0.133		691.943	* uncalibrated *
6.816	9680	VV	0.061		96.798	* uncalibrated *
6.984	16099	VV	0.087		160.992	* uncalibrated *
7.117	16059	VV	0.066		160.587	* uncalibrated *
7.283	32343	VV	0.067		323.431	* uncalibrated *
7.386	60016	VV	0.082		600.165	* uncalibrated *
7.523	32674	VV	0.090		326.740	* uncalibrated *
7.741	19408	PV	0.085		194.079	* uncalibrated *
8.045	19009	VV	0.062		190.089	* uncalibrated *
8.125	9717	VV	0.059		97.171	* uncalibrated *
8.349	71811	VV	0.084		718.114	* uncalibrated *
8.454	28687	VV	0.048		286.870	* uncalibrated *
8.536	3972	VV	0.045		39.721	* uncalibrated *
8.959	64048	VV	0.075		640.482	* uncalibrated *
9.307	48364	VV	0.068		483.640	* uncalibrated *
9.522	423070	VV	0.065		4230.699	* uncalibrated *
9.640	61150	VV	0.039		611.500	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp080905\017R0101.D
perator : DCS
nstrument : FID/PID
ample Name : 148465 x5 ms
un Time Bar Code:
cquired on : 09 Aug 05 05:25 PM
eport Created on: 10 Aug 05 08:27 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

9.688	77499	VV	0.043	774.993	* uncalibrated *
10.004	232854	VV	0.065	2328.541	* uncalibrated *
10.072	301837	VV	0.070	3018.370	* uncalibrated *
10.170	402378	VV	0.066	4023.778	* uncalibrated *
10.269	93222	VV	0.042	932.217	* uncalibrated *
10.325	126960	VV	0.062	1269.600	* uncalibrated *
10.448	400930	VV	0.067	4009.304	* uncalibrated *
10.576	595037	VV	0.087	5950.367	* uncalibrated *
10.750	143066	VV	0.056	1430.663	* uncalibrated *
10.823	261443	VV	0.067	2614.425	* uncalibrated *
10.944	427336	VV	0.100	4273.357	* uncalibrated *
11.051	101285	VV	0.042	1012.852	* uncalibrated *
11.274	138977	VV	0.051	1389.769	* uncalibrated *
11.395	289589	VV	0.099	2895.893	* uncalibrated *
11.530	339874	VV	0.085	3398.742	* uncalibrated *
11.623	182432	VV	0.082	1824.315	* uncalibrated *
11.768	194707	VV	0.061	1947.066	* uncalibrated *
11.840	80497	VV	0.050	804.972	* uncalibrated *
11.929	109605	VV	0.056	1096.052	* uncalibrated *
11.990	134231	VV	0.101	1342.312	* uncalibrated *
12.184	65613	VV	0.076	656.128	* uncalibrated *
12.261	20594	VV	0.046	205.941	* uncalibrated *
12.332	18140	VBA	0.038	181.396	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp080905\017R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 17
ample Name	: 148465 x5 ms	Injection Number	: 1
an Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 05:25 PM	Instrument Method	: GAS1.MTH
eport Created on	: 10 Aug 05 08:27 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\vp080905\018F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 148465 x5 msd
un Time Bar Code:
cquired on : 09 Aug 05 05:50 PM
eport Created on: 10 Aug 05 08:27 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 18
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\vp080905\018F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.765	52963	BV	0.087	1	52.827	n-Pentane
3.857	69418	PV	0.123	1	12.330	2-Methylpentane
4.199	63503	VV	0.146	1	148.861	MTBE
6.295	69499	VV	0.111	1	13.349	2,2,4-Trimethylpentane
6.586	66469	VV	0.087	1	8.424	Benzene
7.917	226777	VV	0.041	1	24.073	Toluene
8.685	31519	PV	0.059	1	7.909	n-Nonane
8.836	271265	VV	0.048	1	26.517	EBenz, m-,p-Xylene
9.076	98798	VV	0.044	1	9.809	o-Xylene
9.397	215754	VV	0.039	1	831.088	BFB
9.757	378489	VV	0.069	1	44.599	1,2,4-Trimethylbenzene
11.161	162695	VV	0.068	1	116.618	Naphthalene
2.993	20488	PV	0.070		204.878	* uncalibrated *
3.191	36400	VV	0.109		363.997	* uncalibrated *
4.062	11290	VV	0.070		112.903	* uncalibrated *
4.516	36716	VV	0.112		367.156	* uncalibrated *
4.835	24731	PV	0.174		247.309	* uncalibrated *
5.083	15436	VV	0.119		154.362	* uncalibrated *
5.204	12678	VV	0.106		126.776	* uncalibrated *
5.461	25145	VV	0.108		251.446	* uncalibrated *
5.778	1550	PV	0.088		15.501	* uncalibrated *
5.946	23520	VV	0.086		235.196	* uncalibrated *
6.077	53086	VV	0.142		530.861	* uncalibrated *
6.727	7987	VV	0.071		79.869	* uncalibrated *
6.815	6283	VV	0.061		62.830	* uncalibrated *
6.969	22837	VV	0.100		228.369	* uncalibrated *
7.110	12594	VV	0.067		125.939	* uncalibrated *
7.275	30050	VV	0.070		300.495	* uncalibrated *
7.383	52849	VV	0.075		528.486	* uncalibrated *
7.513	37014	VV	0.088		370.138	* uncalibrated *
7.786	24049	PV	0.068		240.491	* uncalibrated *
8.042	14251	VV	0.053		142.509	* uncalibrated *
8.123	11764	VV	0.056		117.643	* uncalibrated *
8.362	67496	VV	0.086		674.963	* uncalibrated *
8.452	26975	VV	0.044		269.752	* uncalibrated *
8.537	4049	VV	0.047		40.487	* uncalibrated *
8.926	57660	VV	0.068		576.599	* uncalibrated *
9.017	51101	VV	0.045		511.006	* uncalibrated *
9.121	97247	VV	0.047		972.470	* uncalibrated *
9.194	31738	VV	0.044		317.383	* uncalibrated *
9.305	34870	VV	0.066		348.702	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp080905\018F0101.D
erator : DCS
strument : FID/PID
mple Name : 148465 x5 msd
n Time Bar Code:
quired on : 09 Aug 05 05:50 PM
port Created on: 10 Aug 05 08:27 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 18
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

9.460	124110	VV	0.055	1241.098	* uncalibrated *
9.518	247186	VV	0.061	2471.859	* uncalibrated *
9.642	47234	VV	0.042	472.342	* uncalibrated *
9.686	54212	VV	0.042	542.120	* uncalibrated *
9.998	173725	VV	0.058	1737.250	* uncalibrated *
10.069	149558	VV	0.050	1495.581	* uncalibrated *
10.164	282247	VV	0.072	2822.467	* uncalibrated *
10.273	60384	VV	0.049	603.836	* uncalibrated *
10.324	84552	VV	0.050	845.521	* uncalibrated *
10.445	246871	VV	0.070	2468.710	* uncalibrated *
10.575	364494	VV	0.089	3644.937	* uncalibrated *
10.749	86197	VV	0.052	861.972	* uncalibrated *
10.819	160388	VV	0.065	1603.875	* uncalibrated *
10.940	253257	VV	0.104	2532.568	* uncalibrated *
11.050	82935	VV	0.039	829.346	* uncalibrated *
11.117	87600	VV	0.053	876.001	* uncalibrated *
11.272	88438	VV	0.058	884.376	* uncalibrated *
11.399	185275	VV	0.102	1852.750	* uncalibrated *
11.527	222299	VV	0.076	2222.986	* uncalibrated *
11.623	127661	VV	0.081	1276.609	* uncalibrated *
11.768	125864	VV	0.058	1258.641	* uncalibrated *
11.844	47340	VV	0.054	473.400	* uncalibrated *
11.929	68773	VV	0.054	687.727	* uncalibrated *
11.993	87636	VV	0.080	876.360	* uncalibrated *
12.169	38639	VV	0.068	386.386	* uncalibrated *
12.258	11976	VV	0.043	119.757	* uncalibrated *
12.332	14089	VBA	0.044	140.894	* uncalibrated *

libration table contains at least one peak with amt = 0

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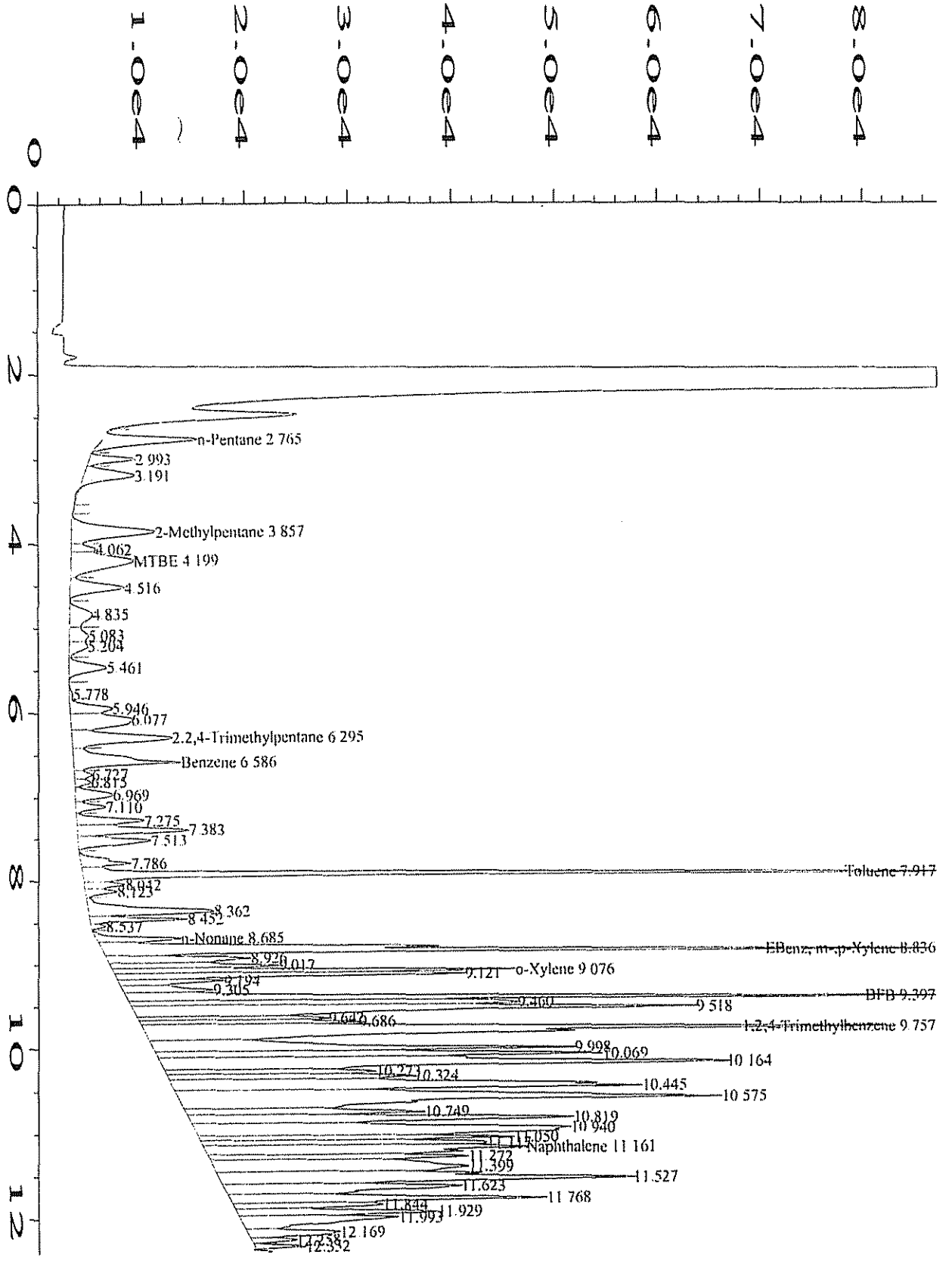

ata File Name : C:\HPCHEM\1\DATA\vp080905\018F0101.D
perator : DCS
nstrument : FID/PID
ample Name : 148465 x5 msd
un Time Bar Code:
cquired on : 09 Aug 05 05:50 PM
eport Created on: 10 Aug 05 08:27 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

:a File Name : C:\HPCHEM\1\DATA\vp080905\018R0101.D
erator : DCS
strument : FID/PID
mple Name : 148465 x5 msd
n Time Bar Code:
quired on : 09 Aug 05 05:50 PM
port Created on: 10 Aug 05 08:27 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 1
Vial Number : 18
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\vp080905\018R0101.D

t Time	Area	Type	Width	Ref#	ug/L	Name
2.815	68014	VV	0.134	1	10.846	n-Pentane
3.869	56579	VV	0.143	1	5.991	2-Methylpentane
4.261	92760	VV	0.139	1	3.077	MTBE
6.306	81991	VV	0.123	1	5.389	2,2,4-Trimethylpentane
6.596	194427	VV	0.077	1	2.444	Benzene
7.920	536268	VV	0.044	1	13.143	Toluene
8.693	29963	PV	0.057	1	4.415	n-Nonane
8.837	521816	VV	0.047	1	15.427	ethbzene/m,p-xylene
9.077	385131	VV	0.078	1	9.943	o-Xylene
9.401	921357	VV	0.061	1	62.012	BFB(pid)
9.757	643712	VV	0.073	1	20.966	1,2,4-Trimethylbenzene
11.162	471569	VV	0.100	1	26.942	Naphthalene(pid)
2.043	86769	BV	0.073		867.694	* uncalibrated *
2.151	38571	VV	0.084		385.707	* uncalibrated *
2.505	72391	VV	0.144		723.913	* uncalibrated *
3.000	67662	VV	0.087		676.624	* uncalibrated *
3.194	107774	VV	0.145		1077.740	* uncalibrated *
4.061	21249	VV	0.093		212.491	* uncalibrated *
4.503	35578	VV	0.139		355.780	* uncalibrated *
4.833	43892	VV	0.176		438.922	* uncalibrated *
5.080	14513	VV	0.101		145.130	* uncalibrated *
5.210	22306	VV	0.122		223.056	* uncalibrated *
5.472	14459	VV	0.115		144.588	* uncalibrated *
5.778	1513	PV	0.085		15.125	* uncalibrated *
6.071	61979	VV	0.153		619.786	* uncalibrated *
6.814	8029	VV	0.060		80.287	* uncalibrated *
6.981	14820	VV	0.089		148.201	* uncalibrated *
7.115	14515	VV	0.066		145.154	* uncalibrated *
7.282	31635	PV	0.067		316.351	* uncalibrated *
7.385	59477	VV	0.082		594.769	* uncalibrated *
7.522	32316	VV	0.090		323.155	* uncalibrated *
7.740	19015	PV	0.084		190.148	* uncalibrated *
8.044	18306	VV	0.062		183.063	* uncalibrated *
8.124	9210	VV	0.058		92.102	* uncalibrated *
8.348	72428	VV	0.083		724.279	* uncalibrated *
8.453	29457	VV	0.048		294.571	* uncalibrated *
8.536	3757	VV	0.046		37.570	* uncalibrated *
8.959	71006	VV	0.075		710.063	* uncalibrated *
9.306	61445	VV	0.070		614.446	* uncalibrated *
9.521	454764	VV	0.067		4547.635	* uncalibrated *
9.639	67440	VV	0.038		674.400	* uncalibrated *

ta File Name : C:\HPCHEM\1\DATA\vp080905\018R0101.D
erator : DCS
strument : FID/PID
mple Name : 148465 x5 msd
n Time Bar Code:
quired on : 09 Aug 05 05:50 PM
port Created on: 10 Aug 05 08:27 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

Page Number : 2
Vial Number : 18
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

9.688	87609	VV	0.043	876.091	* uncalibrated *
10.004	261341	VV	0.068	2613.406	* uncalibrated *
10.072	302081	VV	0.060	3020.814	* uncalibrated *
10.168	471177	VV	0.069	4711.770	* uncalibrated *
10.268	108753	VV	0.043	1087.525	* uncalibrated *
10.324	141582	VV	0.061	1415.820	* uncalibrated *
10.447	446109	VV	0.069	4461.093	* uncalibrated *
10.576	659431	VV	0.090	6594.311	* uncalibrated *
10.750	162982	VV	0.056	1629.821	* uncalibrated *
10.822	292192	VV	0.067	2921.925	* uncalibrated *
10.944	485917	VV	0.102	4859.169	* uncalibrated *
11.051	112729	VV	0.042	1127.293	* uncalibrated *
11.274	158068	VV	0.052	1580.684	* uncalibrated *
11.394	330418	VV	0.100	3304.176	* uncalibrated *
11.529	368264	VV	0.085	3682.641	* uncalibrated *
11.622	204883	VV	0.084	2048.834	* uncalibrated *
11.768	288477	VV	0.083	2884.770	* uncalibrated *
11.928	110511	VV	0.056	1105.107	* uncalibrated *
11.990	131749	VV	0.102	1317.485	* uncalibrated *
12.175	59582	VV	0.078	595.815	* uncalibrated *
12.260	18346	VV	0.047	183.460	* uncalibrated *
12.332	21226	VBA	0.050	212.256	* uncalibrated *

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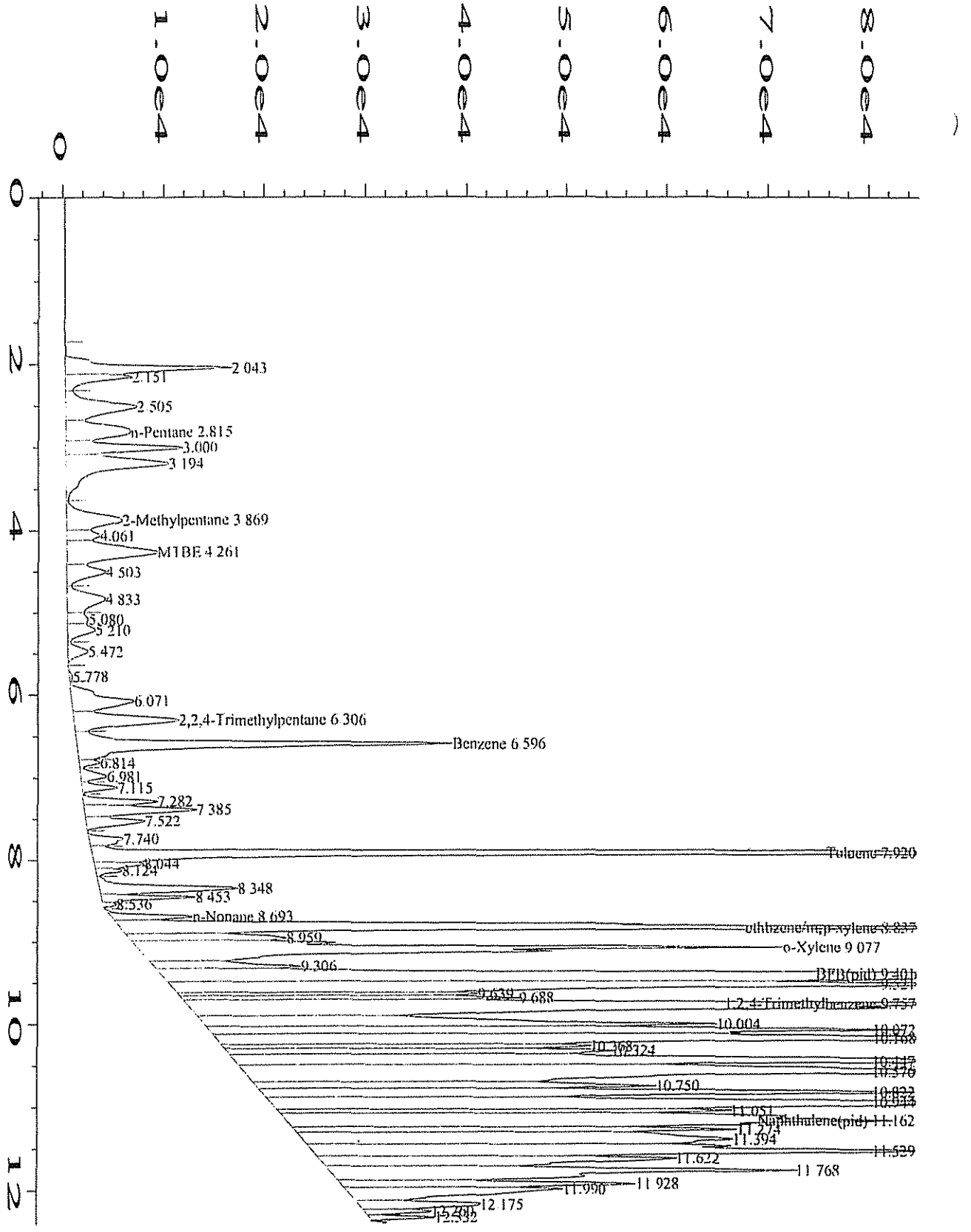


ta File Name	: C:\HPCHEM\1\DATA\vp080905\018R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 18
mple Name	: 148465 x5 msd	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 09 Aug 05 05:50 PM	Instrument Method:	GAS1.MTH
port Created on:	10 Aug 05 08:27 AM	Analysis 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\vp080905\005F0101.D
erator : DCS
strument : FID/PID
mple Name : vblk4080905a
n Time Bar Code:
quired on : 09 Aug 05 10:15 AM
port Created on: 09 Aug 05 10:40 AM
st Recalib on : 24 AUG 04 09:09 AM
ltiplier : 1

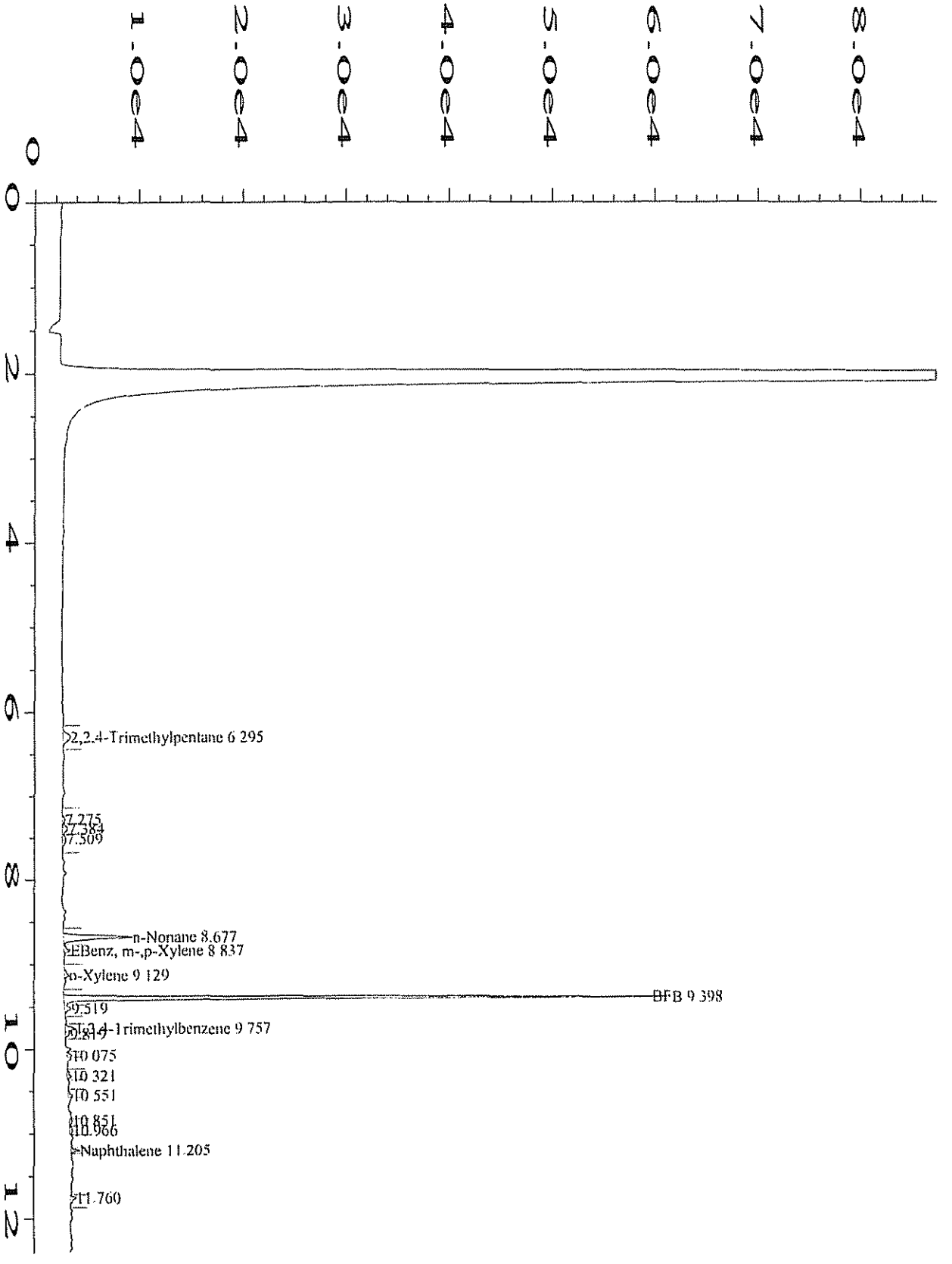
Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

g. 1 in C:\HPCHEM\1\DATA\vp080905\005F0101.D

t 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
6.295	4249	BV	0.094	1	0.816	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	* not found *			1		Toluene
8.677	18790	BV	0.042	1	4.715	n-Nonane
8.837	1732	VV	0.044	1	0.169	EBenz, m-,p-Xylene
9.129	1459	BV	0.052	1	0.145	o-Xylene
9.398	105372	BV	0.028	1	405.891	BFB
9.757	2654	VV	0.041	1	0.283	1,2,4-Trimethylbenzene
11.205	1496	VV	0.027	1	0.353	Naphthalene
7.275	1003	BV	0.061		10.031	* uncalibrated *
7.384	2519	VV	0.074		25.194	* uncalibrated *
7.509	2132	VB	0.083		21.317	* uncalibrated *
9.519	2134	VB	0.049		21.336	* uncalibrated *
9.819	1064	VV	0.041		10.639	* uncalibrated *
10.075	1109	VV	0.035		11.091	* uncalibrated *
10.321	1492	BV	0.047		14.918	* uncalibrated *
10.551	1221	BV	0.041		12.210	* uncalibrated *
10.851	1021	VV	0.052		10.208	* uncalibrated *
10.966	1219	VV	0.067		12.190	* uncalibrated *
11.760	1626	VV	0.042		16.258	* uncalibrated *

libration table contains at least one peak with amt = 0

t all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp080905\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: vblk4080905a	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 09 Aug 05 10:15 AM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Aug 05 10:40 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

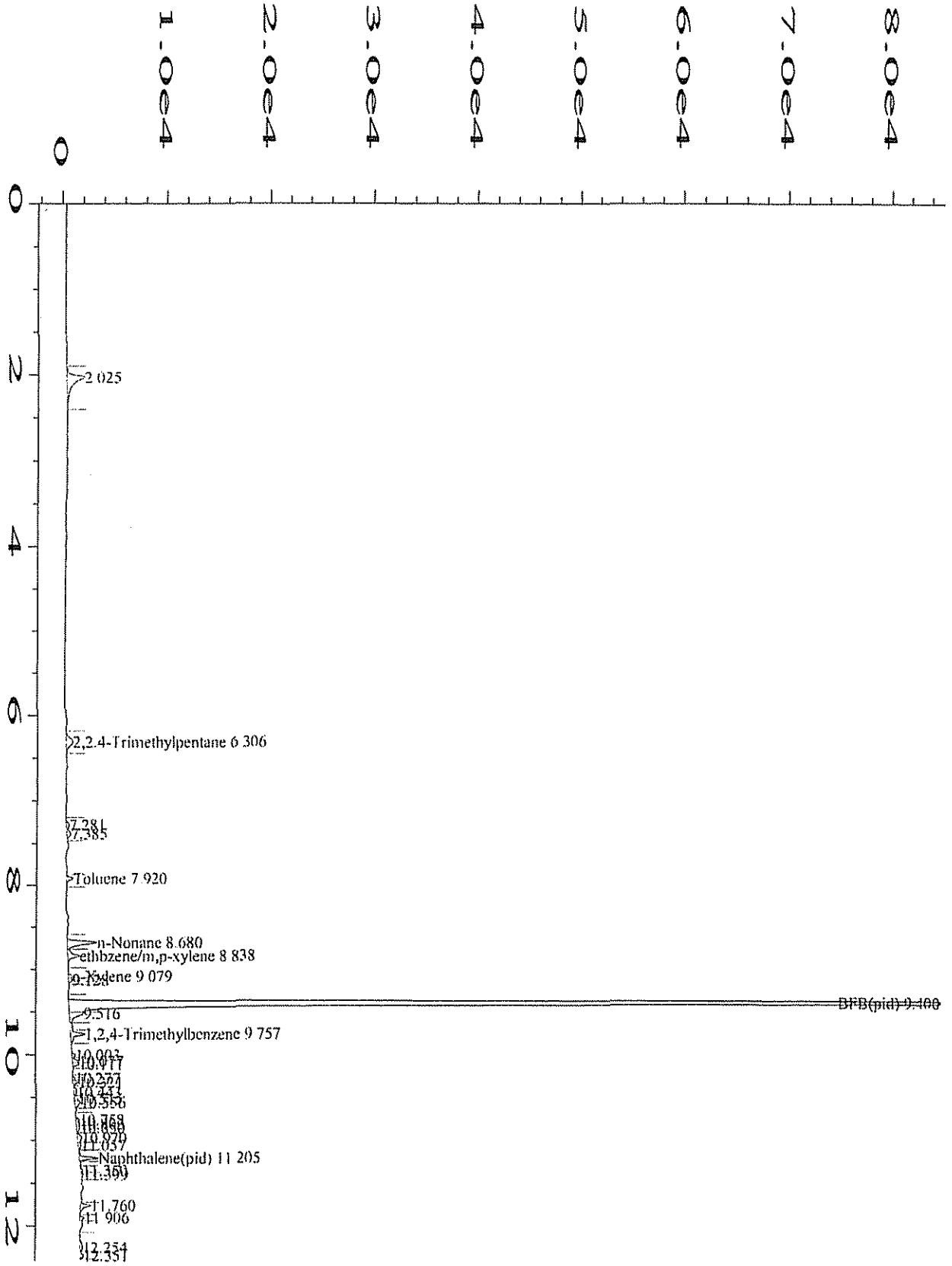
External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp080905\005R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 5
ample Name	: vblk4080905a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 09 Aug 05 10:15 AM	Instrument Method	: GAS1.MTH
eport Created on	: 09 Aug 05 10:40 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\vp080905\005R0101.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
6.306	4047	BV	0.099	1	0.266	2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.920	1681	VB	0.041	1	0.0412	Toluene
8.680	8752	BV	0.045	1	1.289	n-Nonane
8.838	3913	VB	0.049	1	0.116	ethbzene/m,p-xylene
9.079	805	BV	0.035	1	0.0208	o-Xylene
9.400	490971	BV	0.032	1	33.045	BFB(pid)
9.757	4283	VV	0.044	1	0.140	1,2,4-Trimethylbenzene
11.205	3684	VV	0.030	1	0.210	Naphthalene(pid)
2.025	11127	BB	0.089		111.266	* uncalibrated *
7.281	1024	BV	0.060		10.238	* uncalibrated *
7.385	1639	VV	0.065		16.391	* uncalibrated *
9.128	953	VV	0.043		9.526	* uncalibrated *
9.516	4953	VV	0.061		49.527	* uncalibrated *
10.003	925	PV	0.041		9.252	* uncalibrated *
10.077	1370	VV	0.033		13.699	* uncalibrated *
10.111	1346	VV	0.032		13.456	* uncalibrated *
10.277	575	BV	0.037		5.746	* uncalibrated *
10.321	1164	VV	0.035		11.640	* uncalibrated *
10.443	1256	VV	0.066		12.559	* uncalibrated *
10.515	754	VV	0.036		7.535	* uncalibrated *
10.556	2026	VV	0.047		20.264	* uncalibrated *
10.758	727	PV	0.032		7.268	* uncalibrated *
10.803	803	VV	0.036		8.033	* uncalibrated *
10.850	1076	VV	0.044		10.762	* uncalibrated *
10.970	1895	VV	0.067		18.952	* uncalibrated *
11.057	1041	VV	0.060		10.407	* uncalibrated *
11.350	489	PV	0.037		4.886	* uncalibrated *
11.399	533	VV	0.038		5.328	* uncalibrated *
11.760	2578	VV	0.037		25.779	* uncalibrated *
11.906	980	PV	0.034		9.799	* uncalibrated *
12.254	1397	PV	0.073		13.965	* uncalibrated *
12.351	869	VBA	0.041		8.686	* uncalibrated *

ot all calibrated peaks were found



ta File Name	: C:\HPCHEM\1\DATA\vp080905\005R0101.D		
erator	: DCS	Page Number	: 1
strument	: FID/PID	Vial Number	: 5
mple Name	: vblk4080905a	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 09 Aug 05 10:15 AM	Instrument Method:	GAS1.MTH
port Created on:	09 Aug 05 10:40 AM	Analysis Method	: vph_pid.MTH
st Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ltiplier	: 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: vp080905

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	V 500	8/9/05 8:33				DCS		
002F0101.D	b	8/9/05 8:59				DCS		
003F0101.D	G500	8/9/05 9:24				DCS		
004F0101.D	lcs4080905a	8/9/05 9:50				DCS		
005F0101.D	vblk4080905a	8/9/05 10:15				DCS		
006F0101.D	g128-1575-2b x1	8/9/05 10:56				DCS		
007F0101.D	g128-1575-5b x4	8/9/05 11:21				DCS		
008F0101.D	G128-1575-1B x200	8/9/05 11:46	cid= 146819			DCS		
009F0101.D	G128-1573-3B x200	8/9/05 12:11	cid= 146714			DCS		
010F0101.D	G128-1575-4B x400	8/9/05 12:37	cid= 146834			DCS		
011F0101.D	G128-1575-4B x400 dup	8/9/05 13:02	cid= 146834			DCS		
012F0101.D	b	8/9/05 13:27				DCS		
013F0101.D	g161-2104-1e x1	8/9/05 14:30				DCS		
014F0101.D	g161-2104-1f dup	8/9/05 16:07				DCS		
015F0101.D	g510-241-7a x5	8/9/05 16:35				DCS		
016F0101.D	g510-241-8a x5	8/9/05 17:00				DCS		
017F0101.D	G510-241-8A x5 ms	8/9/05 17:25	cid= 148465			DCS		
018F0101.D	G510-241-8A x5 msd	8/9/05 17:50	cid= 148465			DCS		
019F0101.D	g161-2106-1a x10	8/9/05 18:16				DCS		
020F0101.D	g161-2106-7a x4	8/9/05 18:41				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: vp080905

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
021F0101.D	g161-2106-2e x1	8/9/05 19:07				DCS		
022F0101.D	g161-2106-3e x1	8/9/05 19:32				DCS		
023F0101.D	g161-2106-4e x1	8/9/05 19:57				DCS		
024F0101.D	g161-2106-5e x1	8/9/05 20:22				DCS		
025F0101.D	g161-2106-6e x1	8/9/05 20:48				DCS		
026F0101.D	b	8/9/05 21:13				DCS		

Analyst: _____

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

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:

EPH Sample Raw Data

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\EP081605\005F0101.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2104-10 x1 K
Run Time Bar Code: 151863
Acquired on : 16 Aug 05 4:54:44 PM
Report Created on: 17 Aug 2005 8:39:13 AM
Last Recalib on : 12 Aug 2005 9:02:21 AM
Multiplier : 1.0000

Page Number :
Vial Number : Vial 5
Injection Number : 1
Sequence Line : 1
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\EP081605\005F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.075	1.69697	VP	0.01	1	2.099e-6	nonane
3.875	5.69960	VB	0.02	2	7.050e-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
9.080	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
10.969	3.55292	VB	0.04	12	4.395e-6	docosane
11.382	1790.15747	VB	0.03	13	0.00221	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
0.555	226.23149	PV	0.02	1	0.00028	* uncalibrated *
0.586	122.66246	VV	0.01	2	0.00015	* uncalibrated *
0.961	1.78541e7	VVS	0.20	3	22.08388	* uncalibrated *
1.836	6.19742e7	VVS	0.76	4	76.65652	* uncalibrated *
1.887	8.85623e5	VVS	0.01	5	1.09544	* uncalibrated *
1.962	1.50095e4	VVS	0.05	6	0.01857	* uncalibrated *
2.013	6944.06250	VVS	0.02	7	0.00859	* uncalibrated *
2.051	8252.90820	VVS	0.03	8	0.01021	* uncalibrated *
2.089	9988.54199	VVS	0.03	9	0.01235	* uncalibrated *
2.145	9476.58496	VVS	0.03	10	0.01172	* uncalibrated *
2.187	9032.02441	VVS	0.03	11	0.01117	* uncalibrated *
2.234	8627.51172	VVS	0.03	12	0.01067	* uncalibrated *
2.284	6165.51953	VVS	0.02	13	0.00763	* uncalibrated *
2.325	7141.94434	VVS	0.03	14	0.00883	* uncalibrated *
2.381	1.09237e4	VVS	0.05	15	0.01351	* uncalibrated *
2.443	6121.50830	VVS	0.03	16	0.00757	* uncalibrated *
2.486	6564.93359	VVS	0.03	17	0.00812	* uncalibrated *
2.524	5555.16602	VVS	0.03	18	0.00687	* uncalibrated *
2.564	5753.56641	VVS	0.02	19	0.00712	* uncalibrated *
2.607	6126.35889	VVS	0.03	20	0.00758	* uncalibrated *
2.654	3762.34961	VVS	0.02	21	0.00465	* uncalibrated *
2.701	2348.82764	VVS	0.03	22	0.00291	* uncalibrated *
2.735	2537.69604	VBAS	0.04	23	0.00314	* uncalibrated *
3.005	1.77633	BV	0.02	24	2.197e-6	* uncalibrated *
3.468	6.53337	BV	0.02	25	8.081e-6	* uncalibrated *

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\EP081605\006F0201.D
perator : DCS
nstrument : GC6
ample Name : G161-2104-10 x1 R
un Time Bar Code: 151863
cquired on : 16 Aug 05 5:21:23 PM
eport Created on: 17 Aug 2005 8:39:21 AM
ast Recalib on : 12 Aug 2005 9:03:08 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 6
Injection Number : 1
Sequence Line : 2
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP081605\006F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.285	26.11261	PB	0.03	1	3.295e-5	naphthalene
6.141	0.00000	XX	0.00	2	0.00000	2-methylnaphthalene
6.595	1.07044e4	PB	0.04	3	0.01351	2-FB(frac2)
7.158	0.00000	XX	0.00	4	0.00000	acenaphthylene
7.256	7471.45117	BB	0.05	5	0.00943	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
9.539	2326.23315	PB	0.05	10	0.00294	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
12.414	12.85735	BP	0.06	15	1.622e-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
13.525	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
0.555	212.17751	PV	0.02	1	0.00027	* uncalibrated *
0.586	189.93619	VV	0.01	2	0.00024	* uncalibrated *
0.653	4.00616e4	VVS	0.01	3	0.05055	* uncalibrated *
1.757	7.81592e7	VVS	0.96	4	98.62648	* uncalibrated *
1.844	8.84352e5	VVS	0.01	5	1.11593	* uncalibrated *
1.905	8377.70898	VVS	0.02	6	0.01057	* uncalibrated *
1.933	1.08981e4	VVS	0.03	7	0.01375	* uncalibrated *
1.991	1.01316e4	VVS	0.03	8	0.01278	* uncalibrated *
2.038	1.05279e4	VVS	0.03	9	0.01328	* uncalibrated *
2.086	1.00479e4	VVS	0.03	10	0.01268	* uncalibrated *
2.136	1.15058e4	VVS	0.04	11	0.01452	* uncalibrated *
2.184	9466.98145	VVS	0.04	12	0.01195	* uncalibrated *
2.239	8733.16895	VVS	0.03	13	0.01102	* uncalibrated *
2.278	6309.79932	VVS	0.03	14	0.00796	* uncalibrated *
2.332	1.07334e4	VVS	0.05	15	0.01354	* uncalibrated *
2.391	7940.54590	VVS	0.03	16	0.01002	* uncalibrated *
2.437	5111.20361	VVS	0.02	17	0.00645	* uncalibrated *
2.471	5055.95166	VVS	0.03	18	0.00638	* uncalibrated *
2.513	7465.40918	VVS	0.03	19	0.00942	* uncalibrated *
2.569	5974.36426	VVS	0.03	20	0.00754	* uncalibrated *
2.611	4525.54443	VVS	0.02	21	0.00571	* uncalibrated *
2.635	2771.95923	VVS	0.02	22	0.00350	* uncalibrated *

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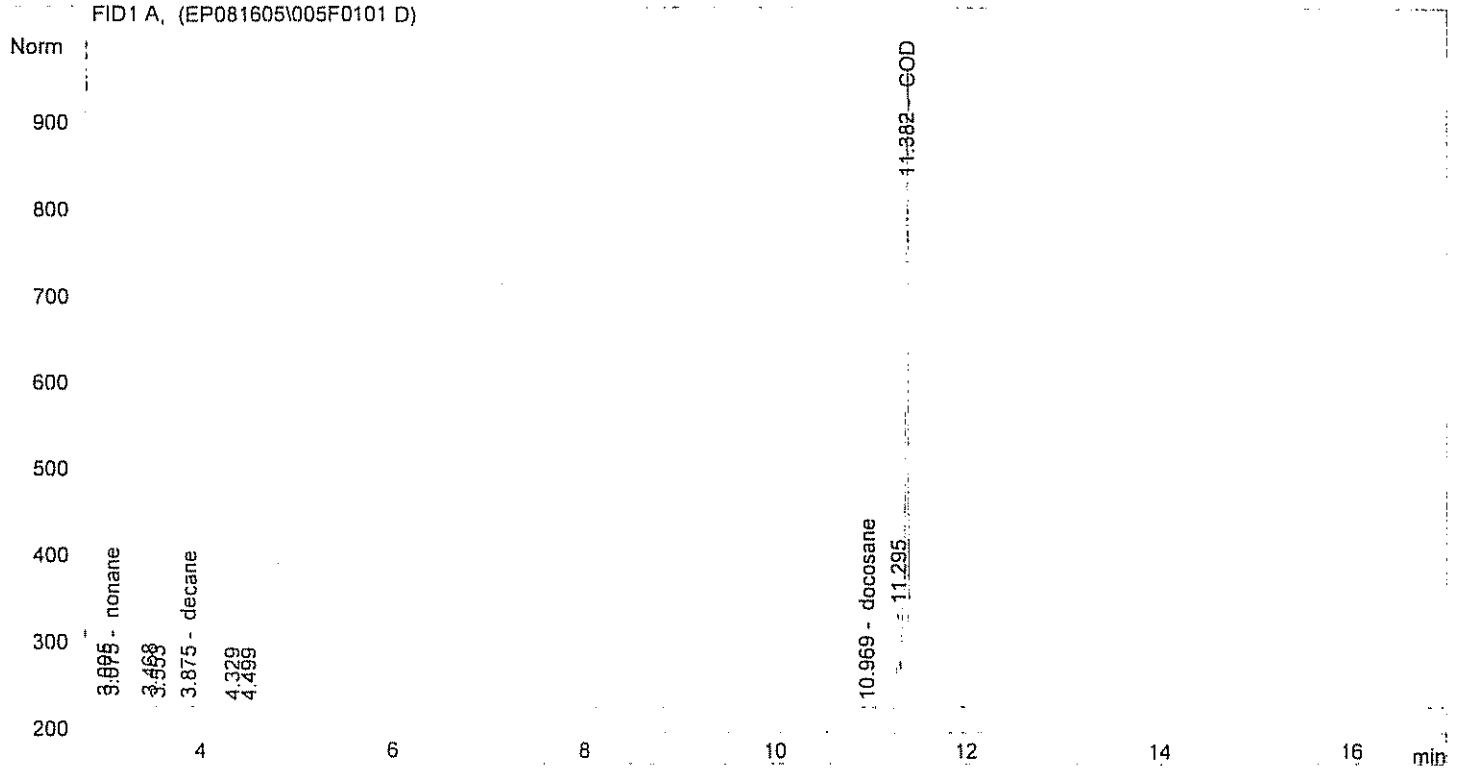
==========================================================================
Injection Date  : 8/16/2005 4:54:44 PM          Seq. Line :   1
Sample Name     : 151863 x1 K                    Location : Vial 5
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           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
```




```
==========================================================================
                          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	3.075	VP	0.0188	1.69697	2.099e-6	nonane
2	3.875	VB	0.0283	5.69960	7.050e-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	9.080		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	10.969	VB	0.0429	3.55292	4.395e-6	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.382	VB	0.0346	1790.15747	0.00221	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 : 1801.10696 2.228e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0259	226.23149	0.00028	?
2	0.586	VV	0.0118	122.66246	0.00015	?
3	0.961	VV S	0.2080	1.78541e7	22.08388	?
4	1.836	VV S	0.7637	6.19742e7	76.65652	?
5	1.887	VV S	0.0185	8.85623e5	1.09544	?
6	1.962	VV S	0.0506	1.50095e4	0.01857	?
7	2.013	VV S	0.0251	6944.06250	0.00859	?
8	2.051	VV S	0.0346	8252.90820	0.01021	?
9	2.089	VV S	0.0357	9988.54199	0.01235	?
10	2.145	VV S	0.0382	9476.58496	0.01172	?
11	2.187	VV S	0.0354	9032.02441	0.01117	?
12	2.234	VV S	0.0383	8627.51172	0.01067	?
13	2.284	VV S	0.0267	6165.51953	0.00763	?
14	2.325	VV S	0.0332	7141.94434	0.00883	?
15	2.381	VV S	0.0504	1.09237e4	0.01351	?
16	2.443	VV S	0.0320	6121.50830	0.00757	?
17	2.486	VV S	0.0337	6564.93359	0.00812	?
18	2.524	VV S	0.0308	5555.16602	0.00687	?
19	2.564	VV S	0.0292	5753.56641	0.00712	?
20	2.607	VV S	0.0303	6126.35889	0.00758	?
21	2.654	VV S	0.0291	3762.34961	0.00465	?
22	2.701	VV S	0.0301	2348.82764	0.00291	?
23	2.735	VBAS	0.0452	2537.69604	0.00314	?
24	3.005	BV	0.0221	1.77633	2.197e-6	?
25	3.468	BV	0.0258	6.53337	8.081e-6	?
26	3.553	VV	0.0409	3.78507	4.682e-6	?
27	4.329	PV	0.0356	2.88439	3.568e-6	?
28	4.499	BV	0.0318	2.38853	2.954e-6	?
29	11.295	PV	0.0305	216.80530	0.00027	?

Uncalib. totals : 8.08448e7 99.9978

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 ***

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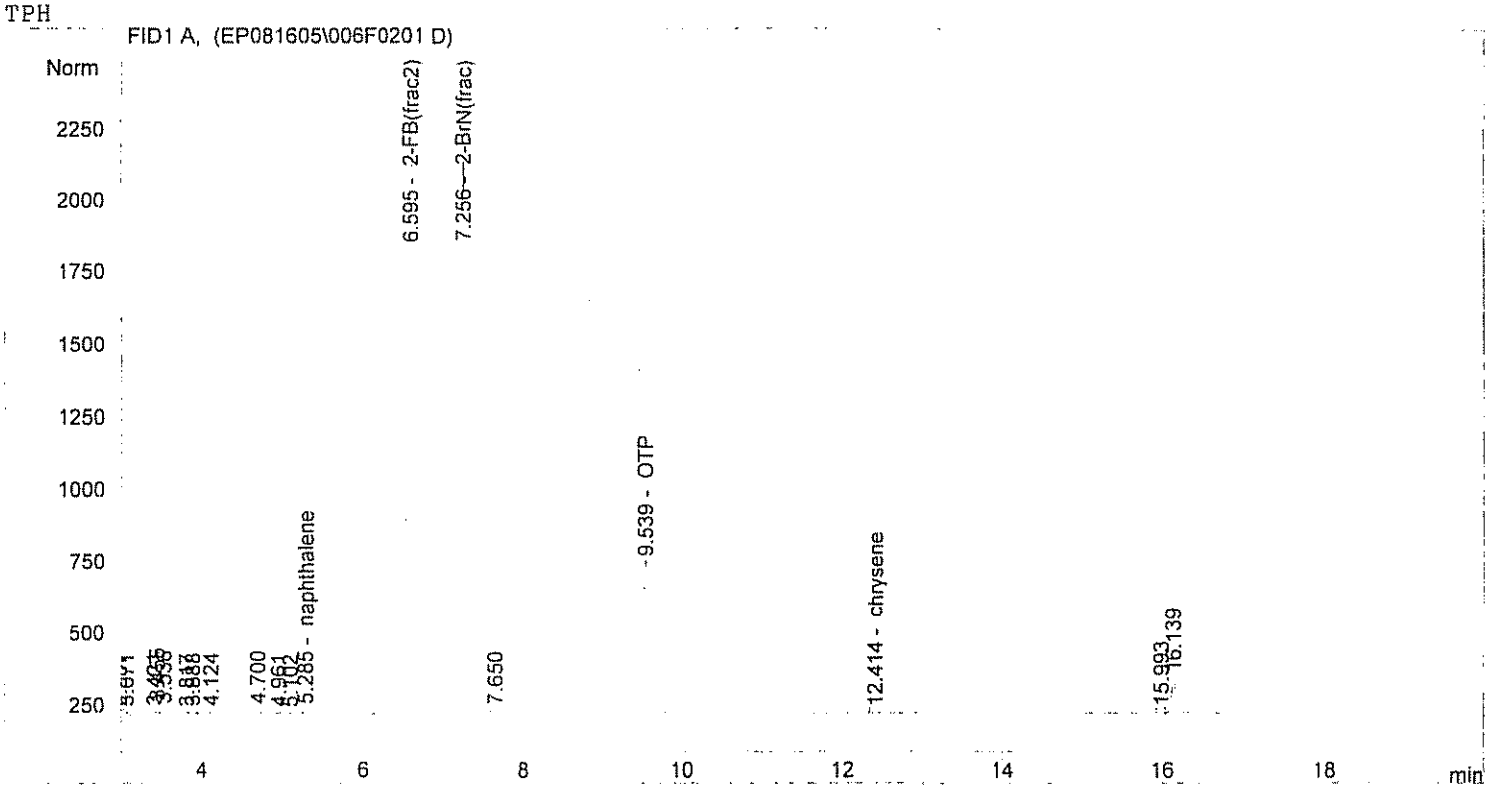
==========================================================================
Injection Date  : 8/16/2005 5:21:23 PM          Seq. Line :   2
Sample Name     : 151863 x1 R                    Location : Vial 6
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           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
```




```
==========================================================================
                          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	5.285	PB	0.0306	26.11261	3.295e-5	naphthalene
2	6.141		0.0000	0.00000	0.00000	2-methylnaphthalene
3	6.595	PB	0.0414	1.07044e4	0.01351	2-FB(frac2)
4	7.158		0.0000	0.00000	0.00000	acenaphthylene
5	7.256	BB	0.0528	7471.45117	0.00943	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	9.539	PB	0.0565	2326.23315	0.00294	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	12.414	BP	0.0629	12.85735	1.622e-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	13.525		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 : 2.05411e4 2.592e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0206	212.17751	0.00027	?
2	0.586	VV	0.0164	189.93619	0.00024	?
3	0.653	VV S	0.0167	4.00616e4	0.05055	?
4	1.757	VV S	0.9612	7.81592e7	98.62648	?
5	1.844	VV S	0.0181	8.84352e5	1.11593	?
6	1.905	VV S	0.0226	8377.70898	0.01057	?
7	1.933	VV S	0.0342	1.08981e4	0.01375	?
8	1.991	VV S	0.0352	1.01316e4	0.01278	?
9	2.038	VV S	0.0340	1.05279e4	0.01328	?
10	2.086	VV S	0.0311	1.00479e4	0.01268	?
11	2.136	VV S	0.0427	1.15058e4	0.01452	?
12	2.184	VV S	0.0406	9466.98145	0.01195	?
13	2.239	VV S	0.0321	8733.16895	0.01102	?
14	2.278	VV S	0.0303	6309.79932	0.00796	?
15	2.332	VV S	0.0569	1.07334e4	0.01354	?
16	2.391	VV S	0.0364	7940.54590	0.01002	?
17	2.437	VV S	0.0245	5111.20361	0.00645	?
18	2.471	VV S	0.0319	5055.95166	0.00638	?
19	2.513	VV S	0.0395	7465.40918	0.00942	?
20	2.569	VV S	0.0342	5974.36426	0.00754	?
21	2.611	VV S	0.0279	4525.54443	0.00571	?
22	2.635	VV S	0.0241	2771.95923	0.00350	?
23	2.673	VV S	0.0339	3146.81885	0.00397	?
24	2.724	VB S	0.0597	3777.12207	0.00477	?
25	2.987	BB	0.0219	1.90164	2.400e-6	?
26	3.071	BP	0.0292	3.80500	4.801e-6	?
27	3.421	PV	0.0162	5.39679	6.810e-6	?
28	3.455	VB	0.0184	23.19157	2.926e-5	?
29	3.536	BB	0.0205	15.62675	1.972e-5	?
30	3.817	PV	0.0259	3.15303	3.979e-6	?
31	3.888	VB	0.0399	12.61153	1.591e-5	?
32	4.124	BB	0.0216	7.90528	9.975e-6	?
33	4.700	BB	0.0264	22.81521	2.879e-5	?
34	4.961	BB	0.0227	5.65760	7.139e-6	?
35	5.102	BB	0.0281	3.07497	3.880e-6	?
36	7.650	BB	0.0842	57.12115	7.208e-5	?
37	15.993	PV	0.0481	11.66658	1.472e-5	?
38	16.139	VB	0.0572	450.58911	0.00057	?

Uncalib. totals : 7.92271e7 99.9741

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

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

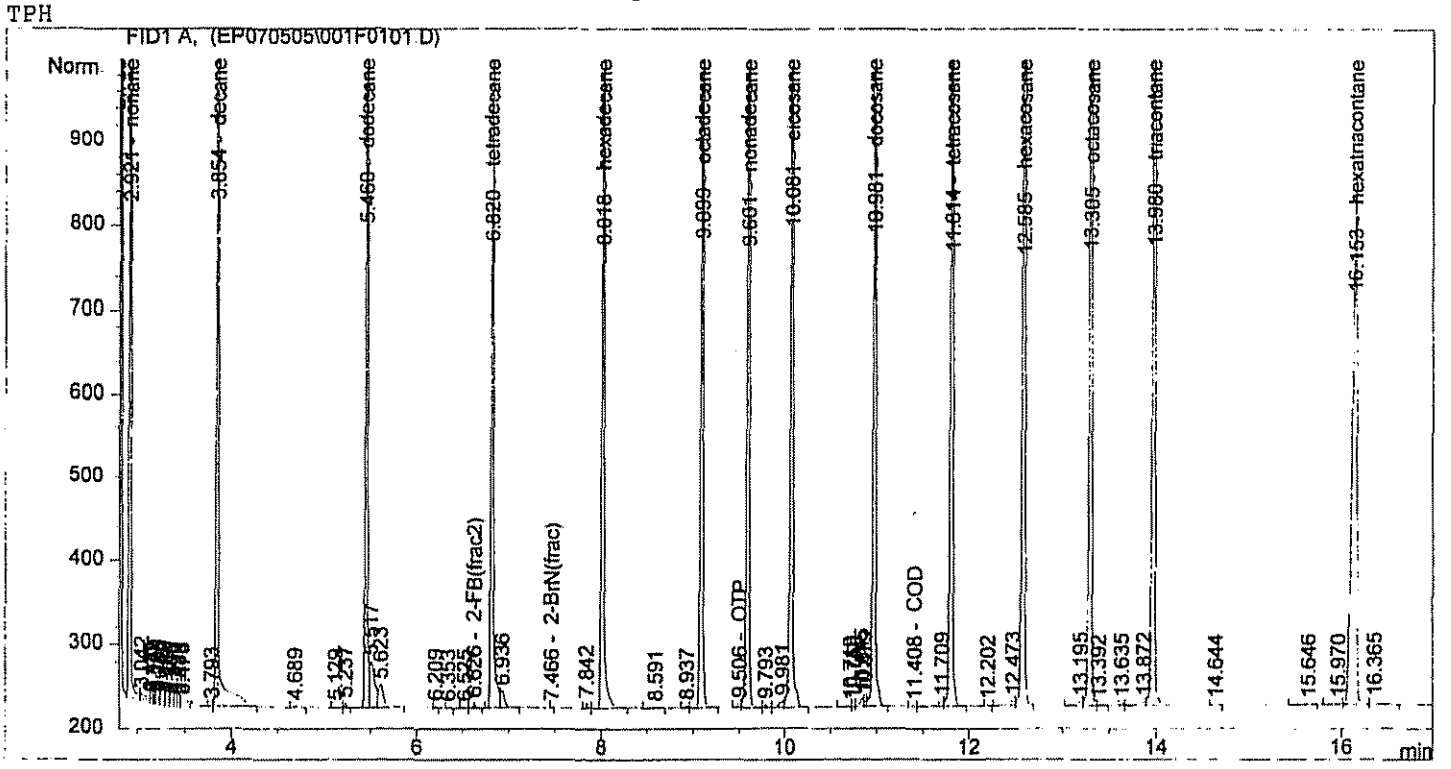
Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	60	7.5
C_{19}-C_{36} Aliphatics	80	5.0
C_{11}-C_{22} Aromatics	340	-6.8

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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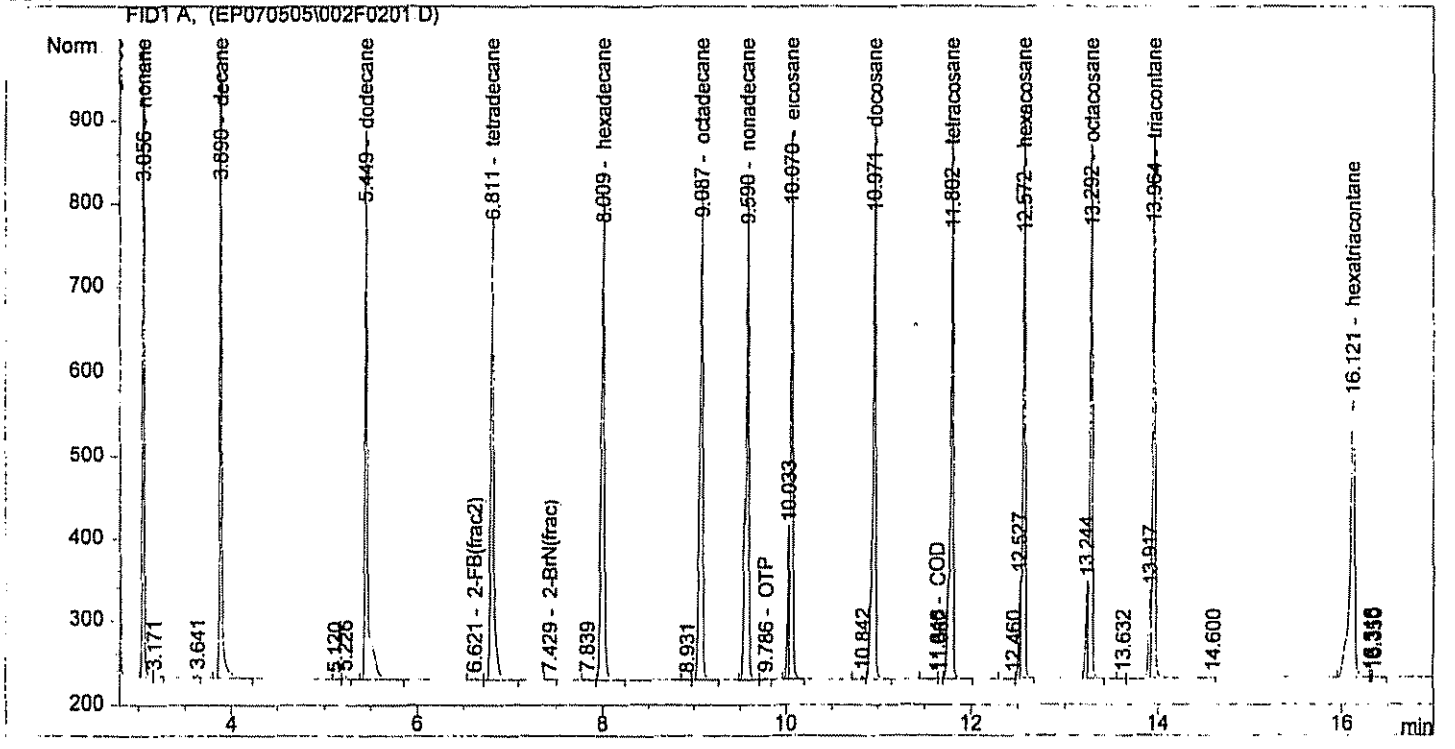
*** End of Report ***

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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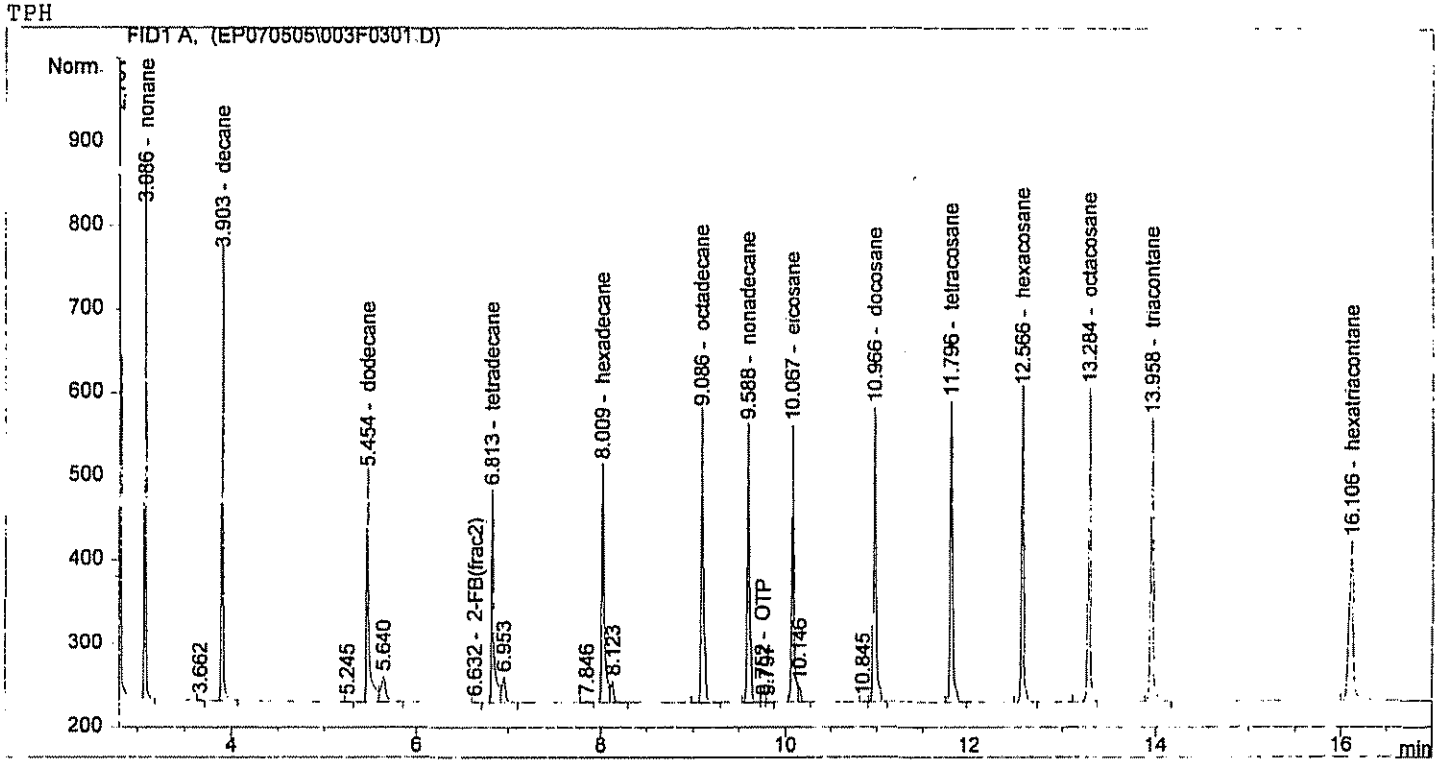
*** End of Report ***

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 :

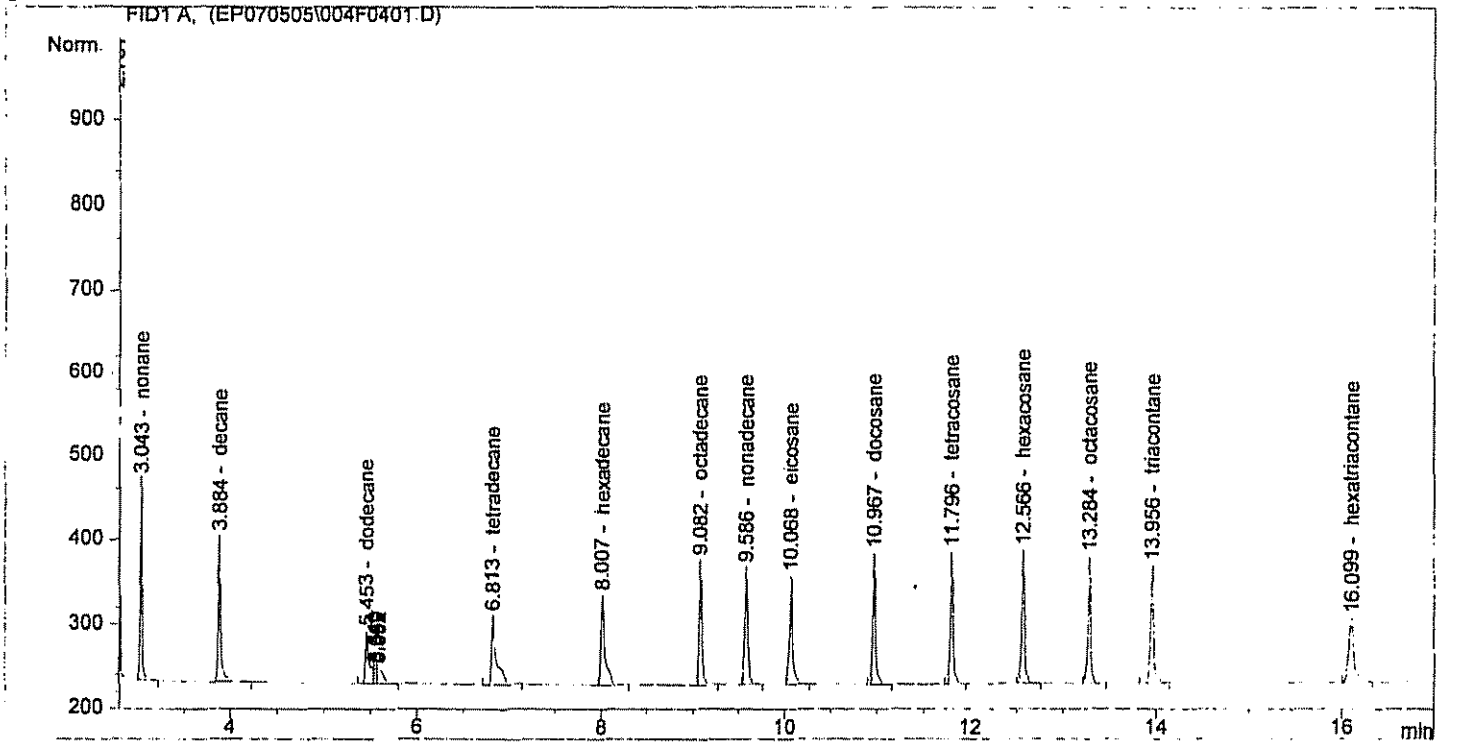
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** 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 :

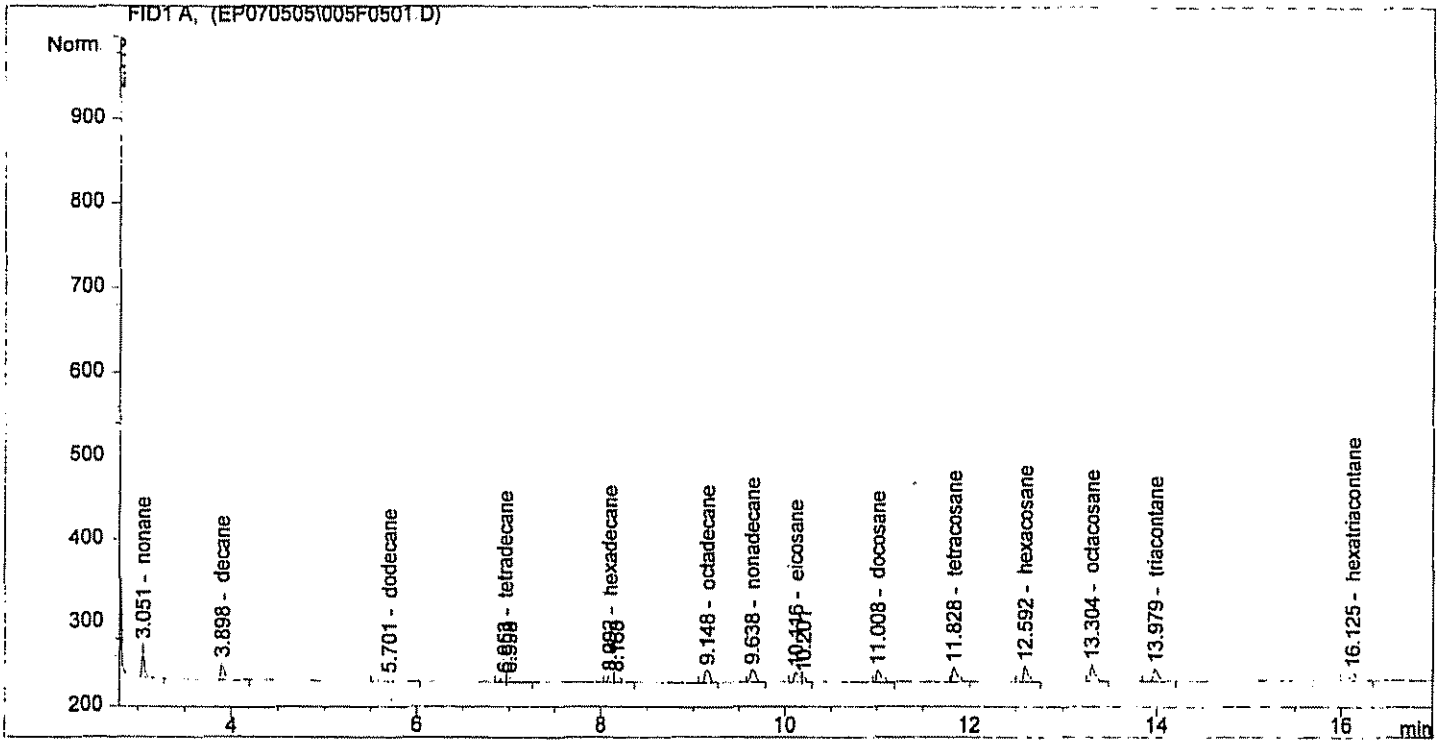
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP070505\005F0501.D Sample Name: K 1 ical

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 :

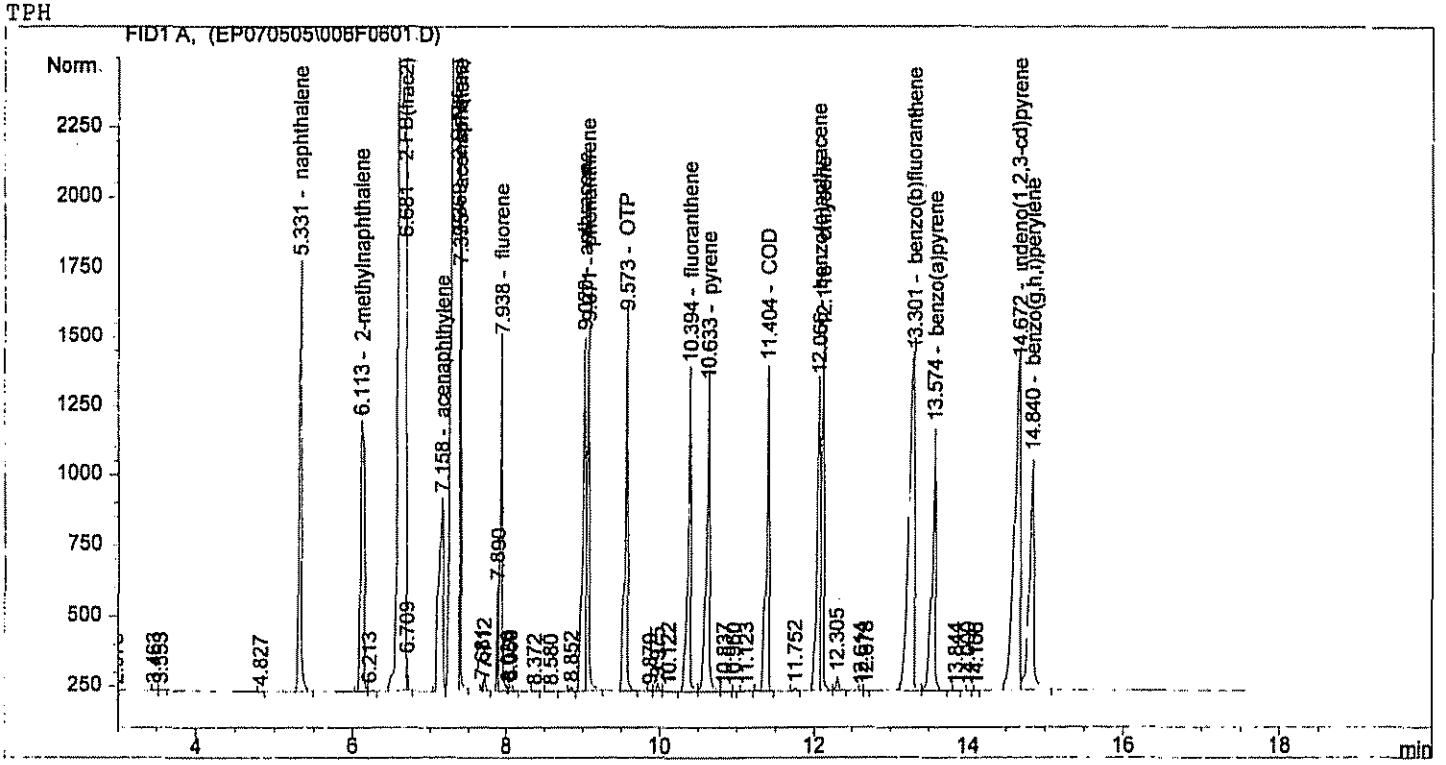
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

*** 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 :

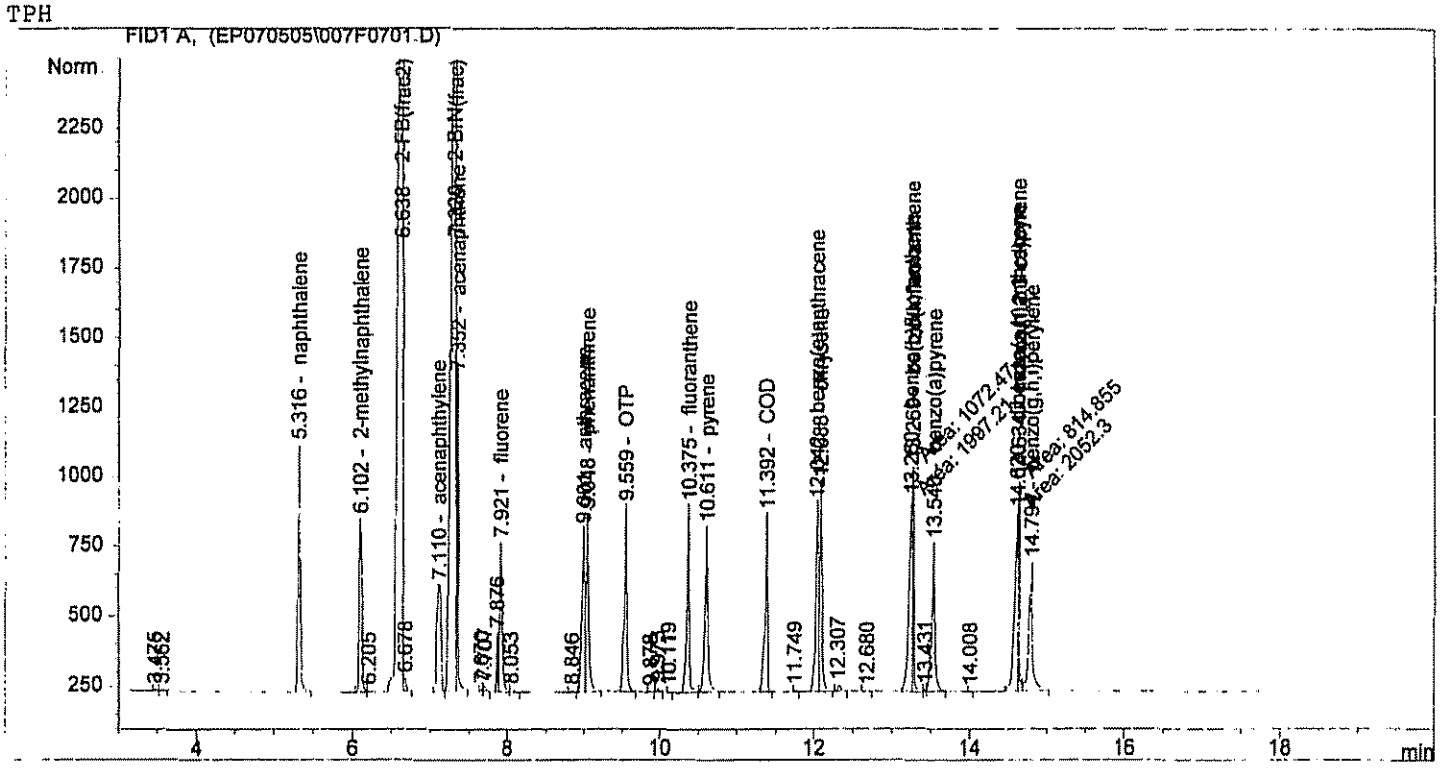
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

*** 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

Data 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 :

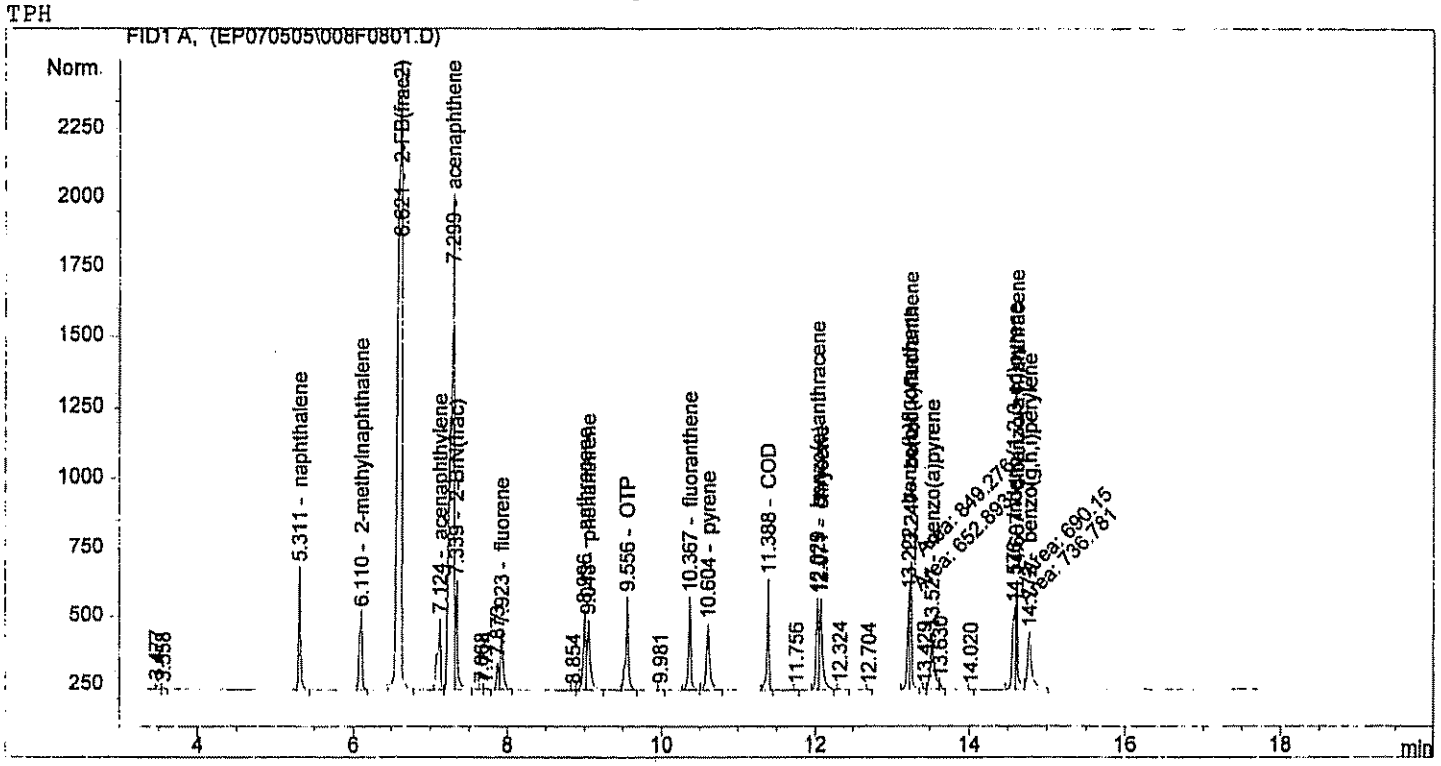
Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

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

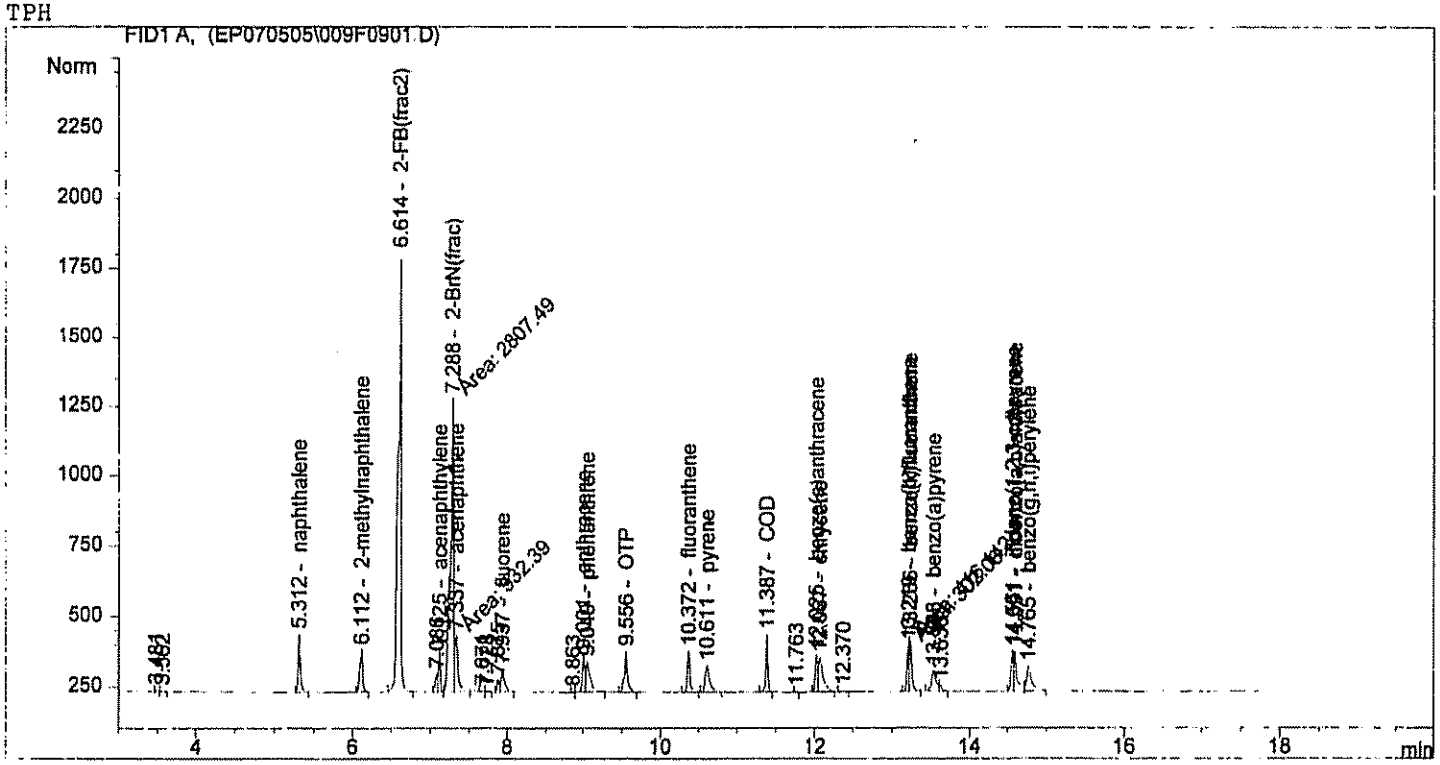
==========

*** 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

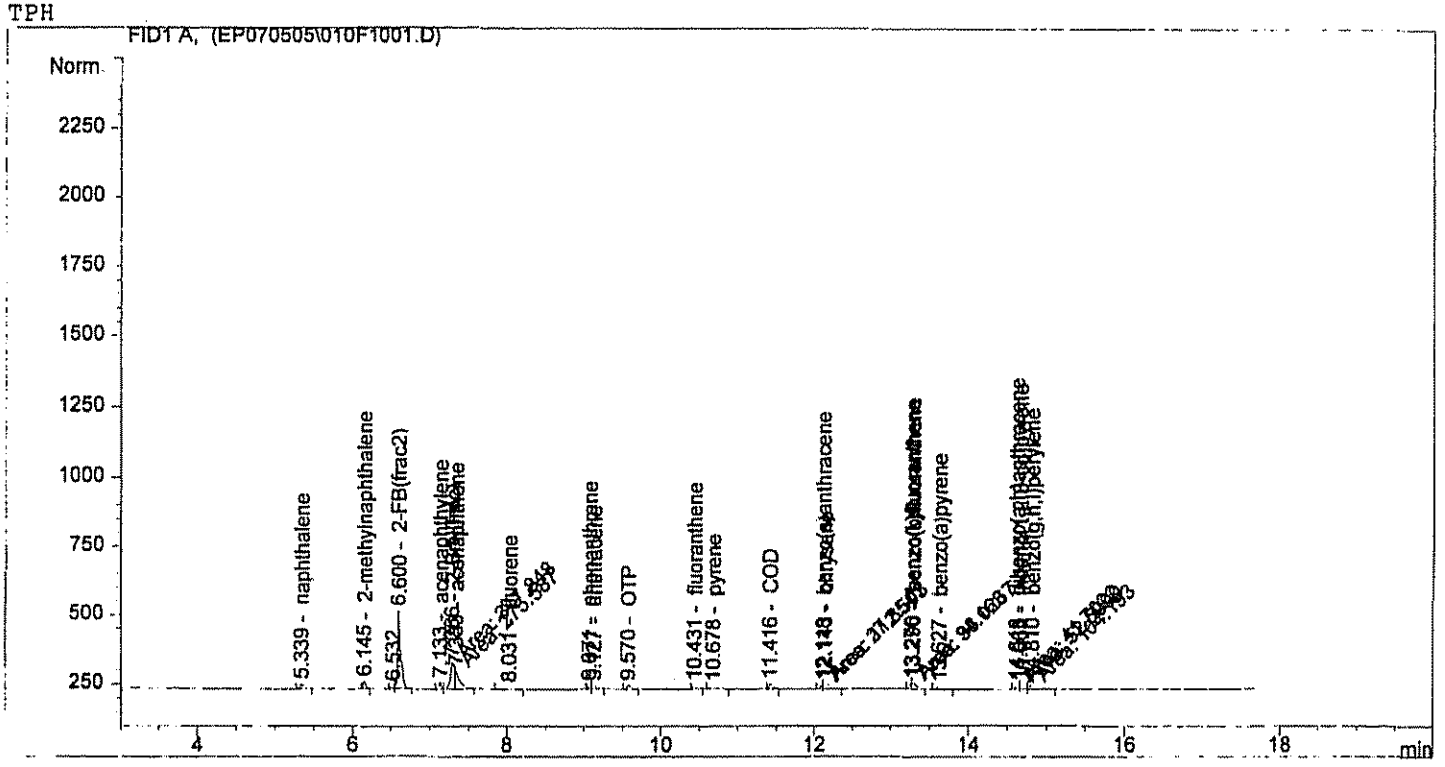
==========

*** 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

==========

*** 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          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    : 8/12/2005 9:02:25 AM by DCS
TPH
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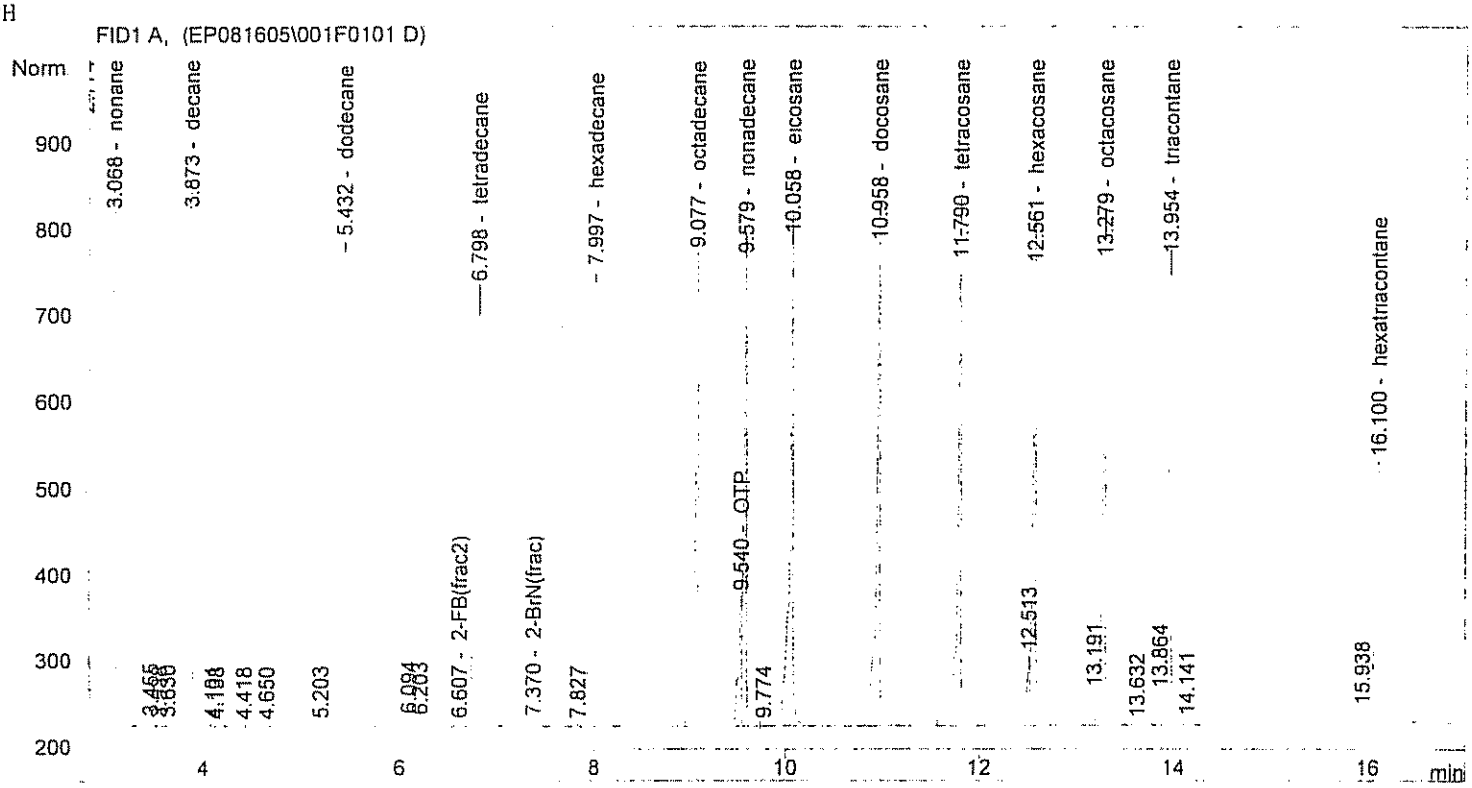



```
==========================================================================
                          Area Percent Report
==========================================================================

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  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|---------------------
   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 :

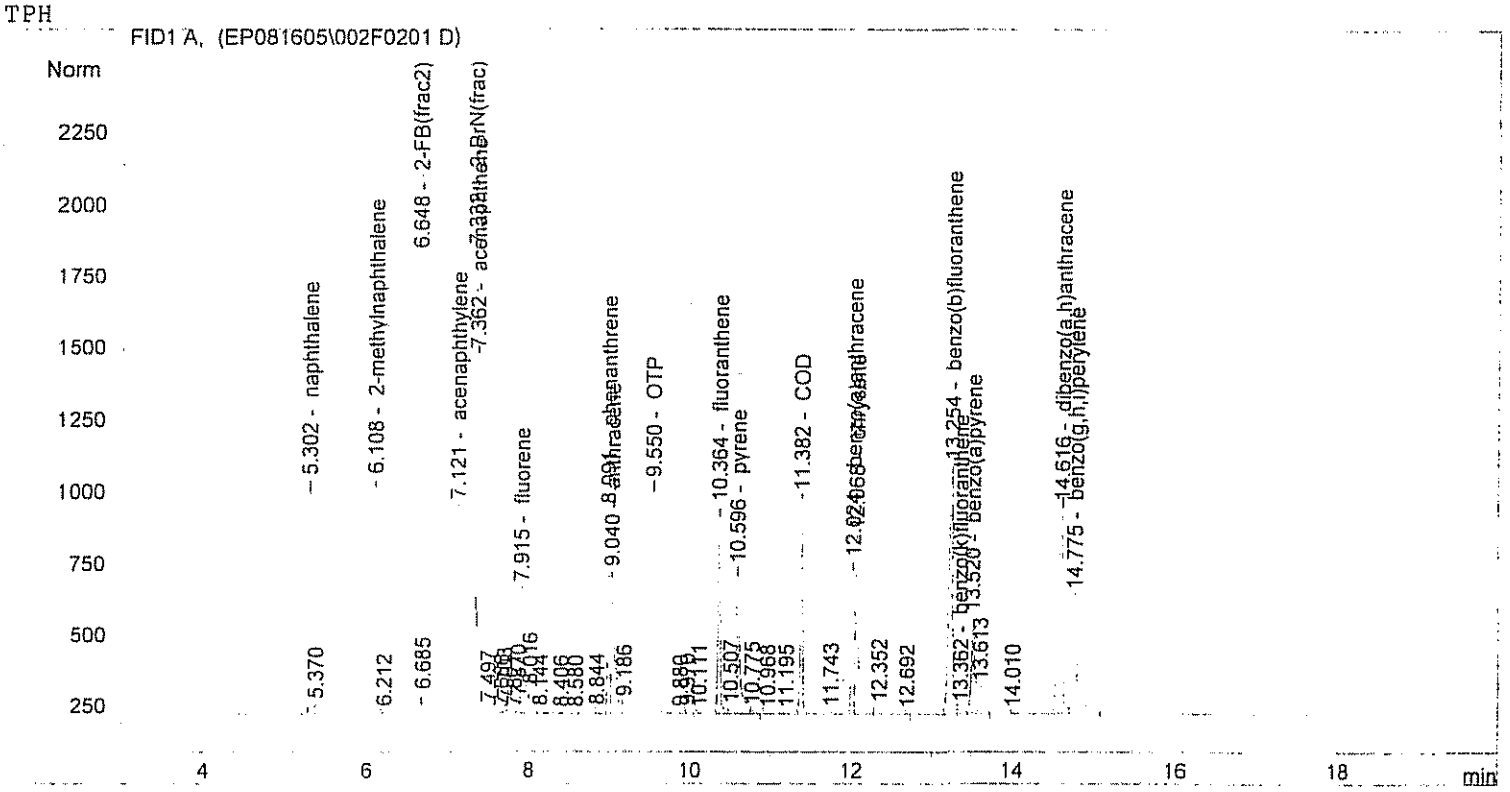
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** 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)
```

TPH




```
==========================================================================
                          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  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|---------------------
   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
```

Data File C:\HPCHEM\1\DATA\EP081605\0021G201.D Sample Name: R 20 ccal

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

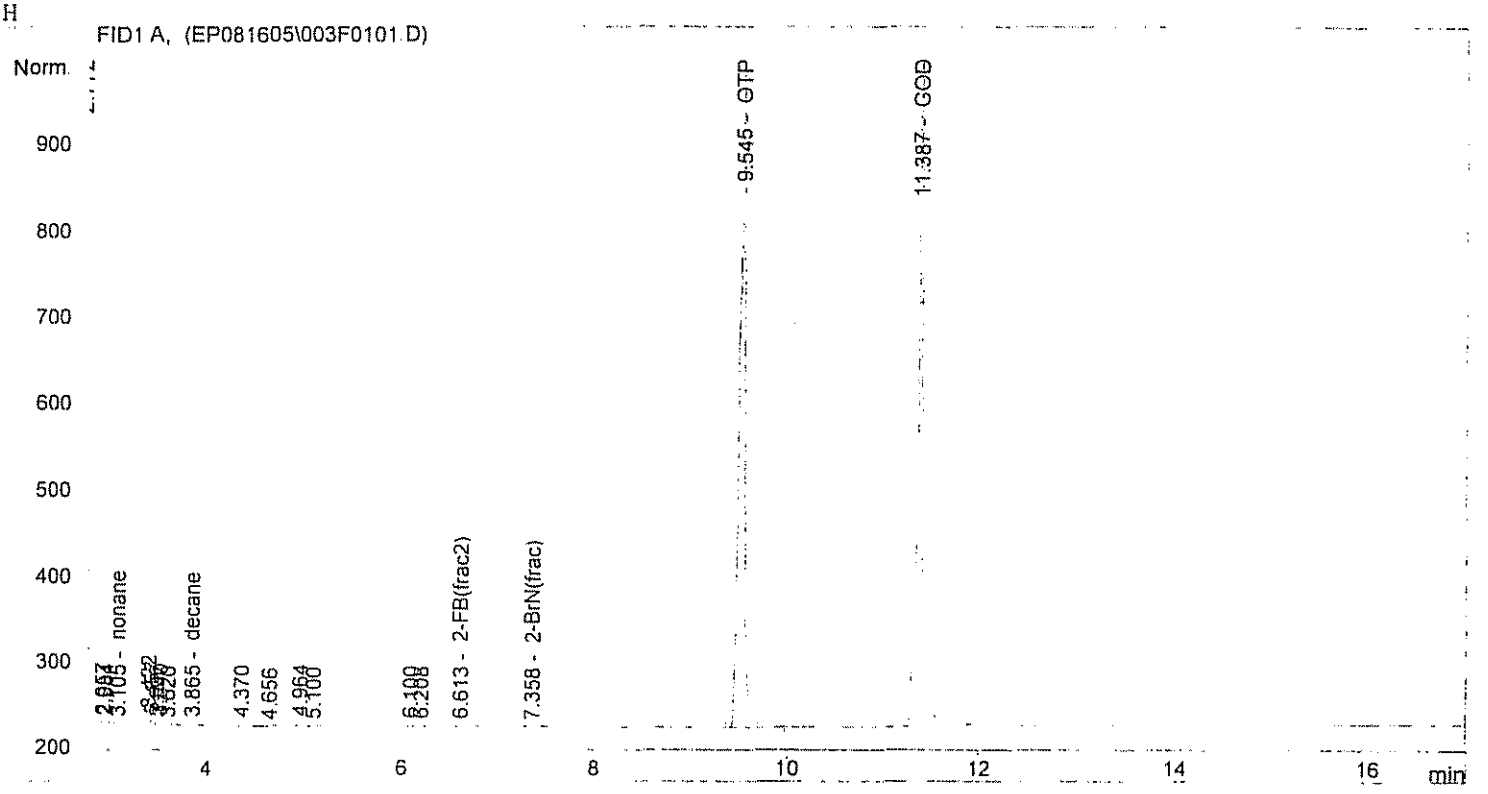
Results obtained with enhanced integrator!
2 Warnings or Errors :

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  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   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

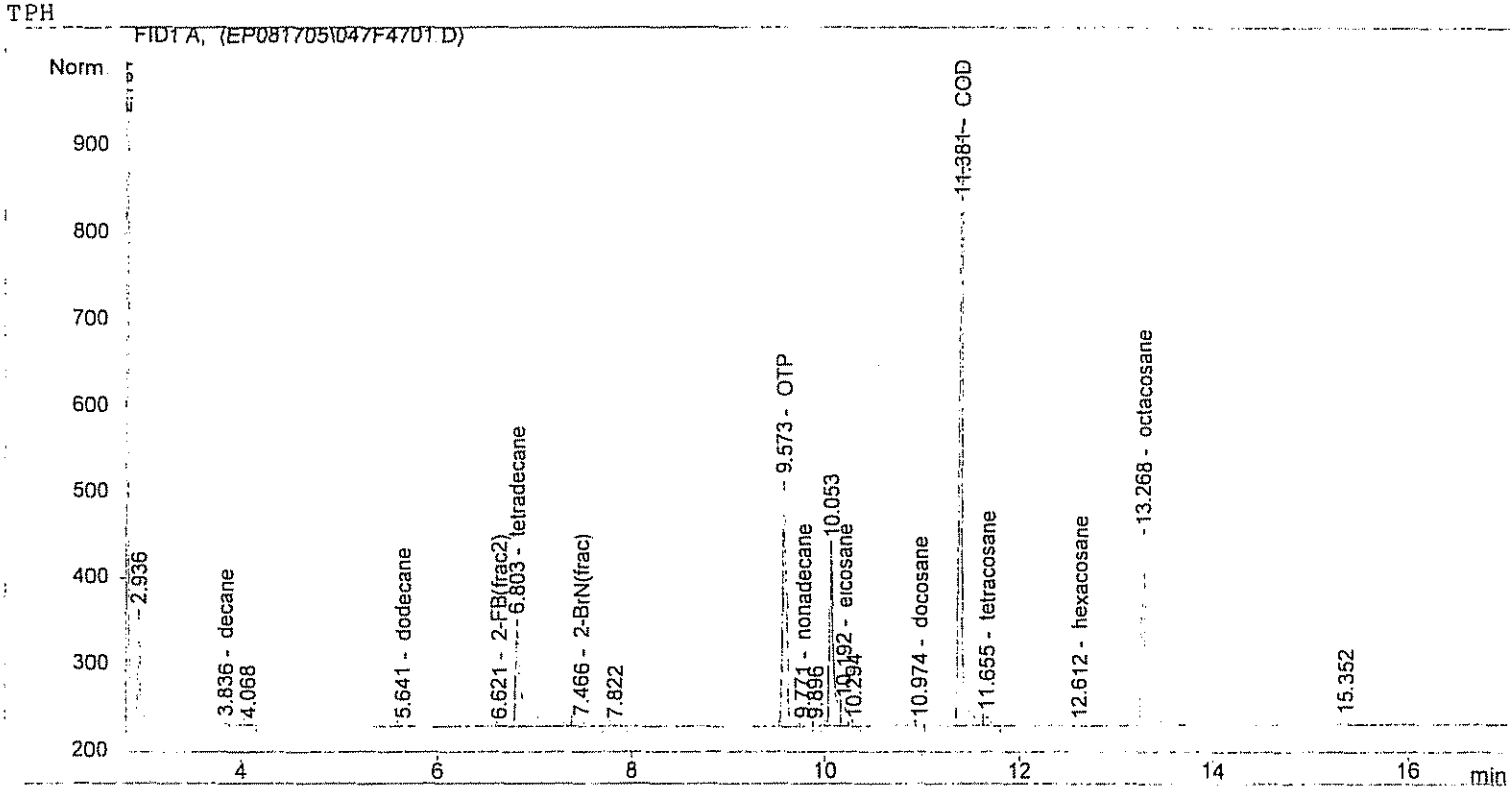
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

```
==========================================================================
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
```




```
==========================================================================
                          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

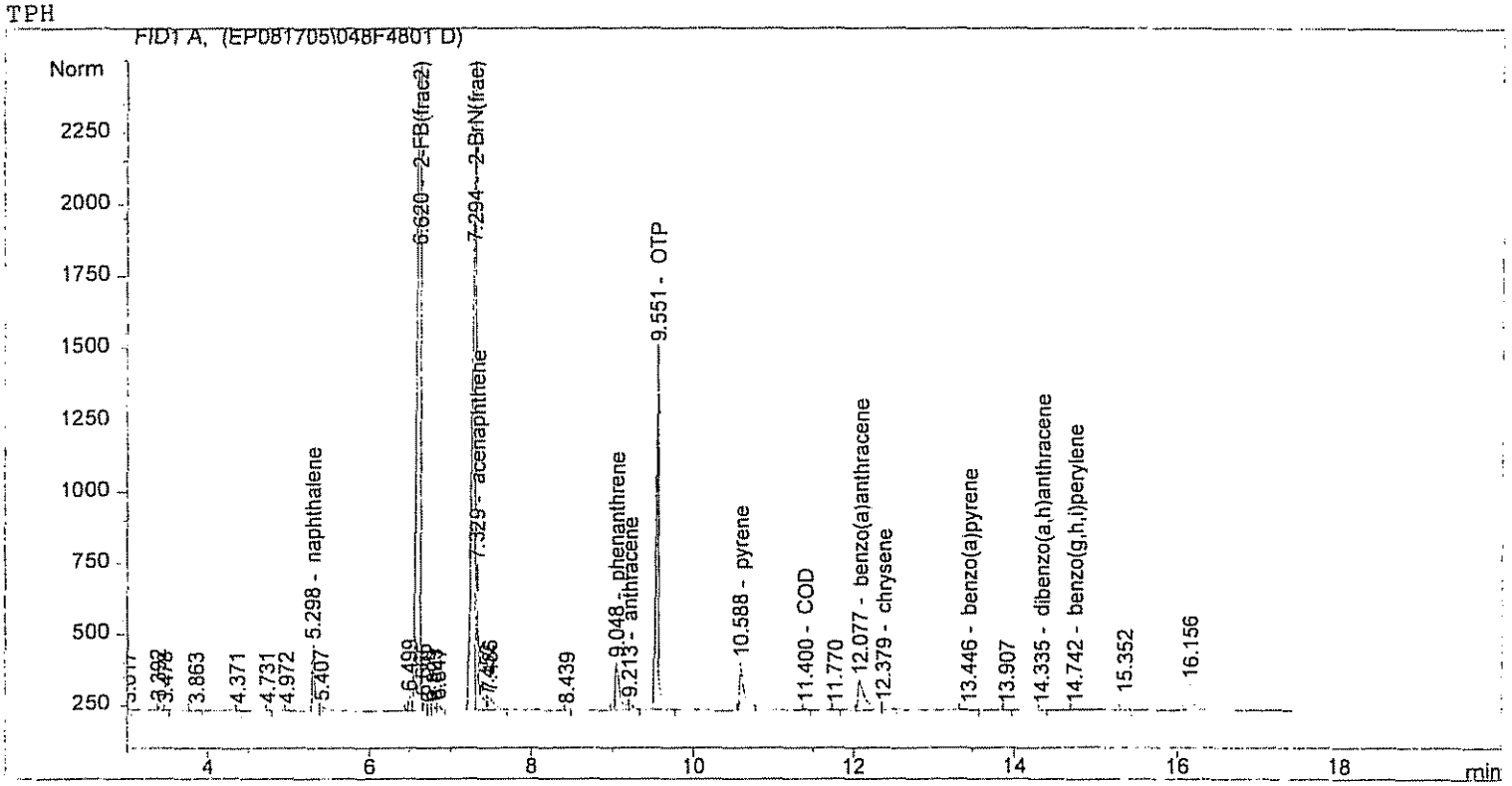
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** 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
```




```
==========================================================================
                          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

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 :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========

*** End of Report ***

External Standard Report

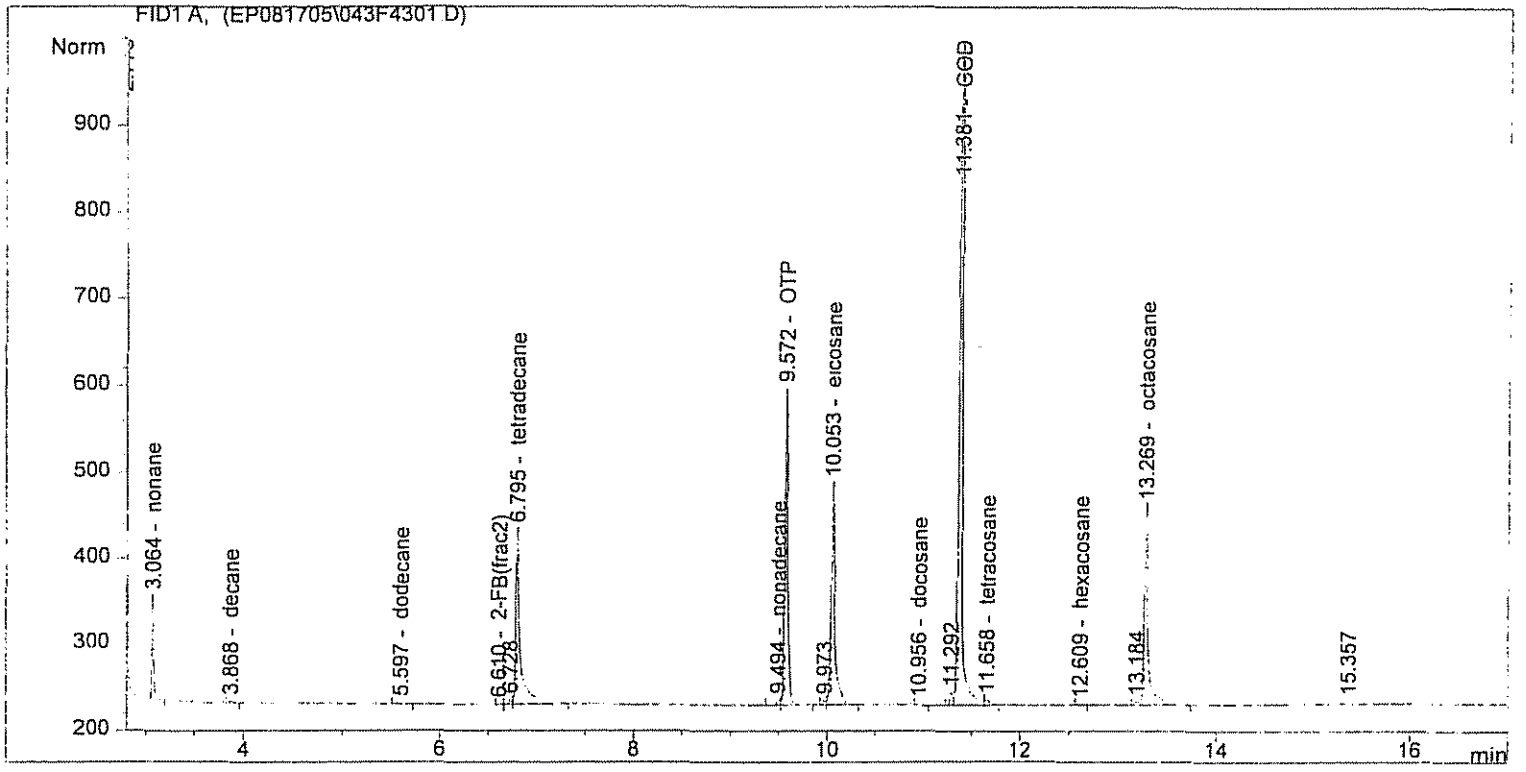
ta File Name : C:\HPCHEM\1\DATA\EP081705\043F4301.D
erator : DCS
strument : GC6
mple Name : G161-2104-1P x1 ms K
n Time Bar Code: 151864
quired on : 18 Aug 05 3:55:00 AM
port Created on: 18 Aug 2005 8:56:00 AM
st Recalib on : 12 Aug 2005 9:02:21 AM
ltiplier : 1.0000

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 [min]	Type	Width [min]	Area [pA*s]	Area %	Name
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 :

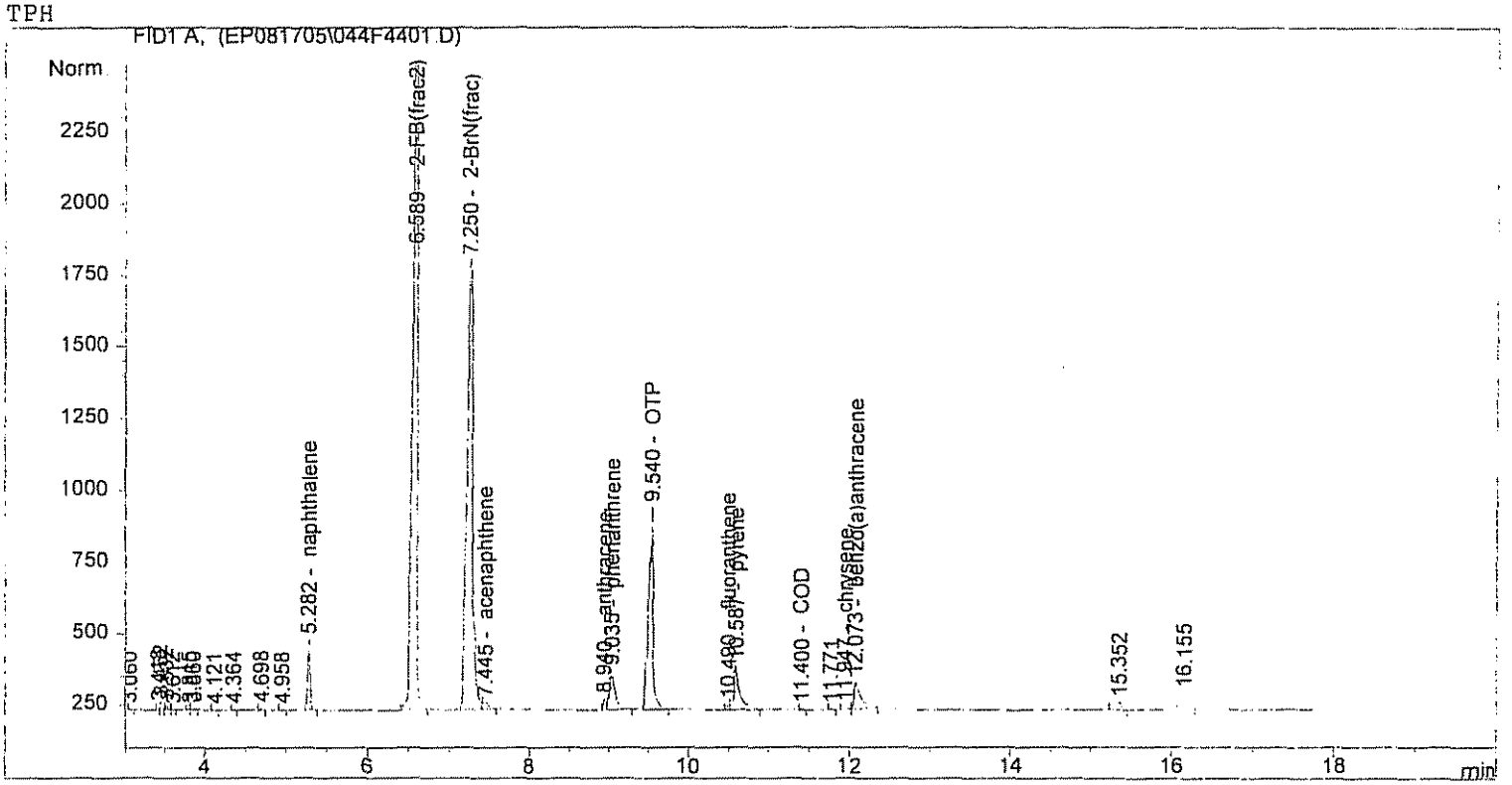
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

Injection Date	: 8/18/2005 4:22:19 AM	Seq. Line	: 44
Sample Name	: 151864 x1 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

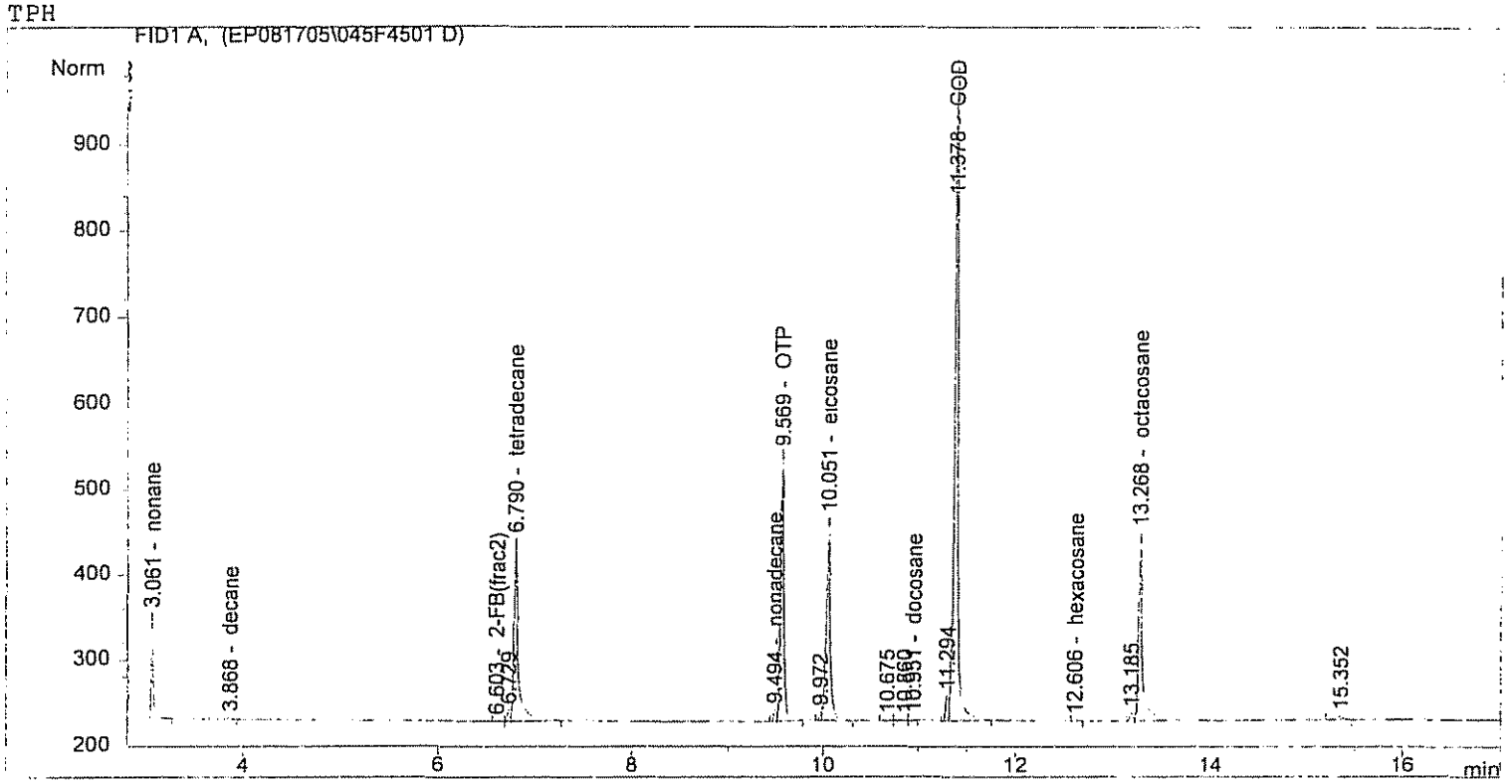
Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

==========

*** 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

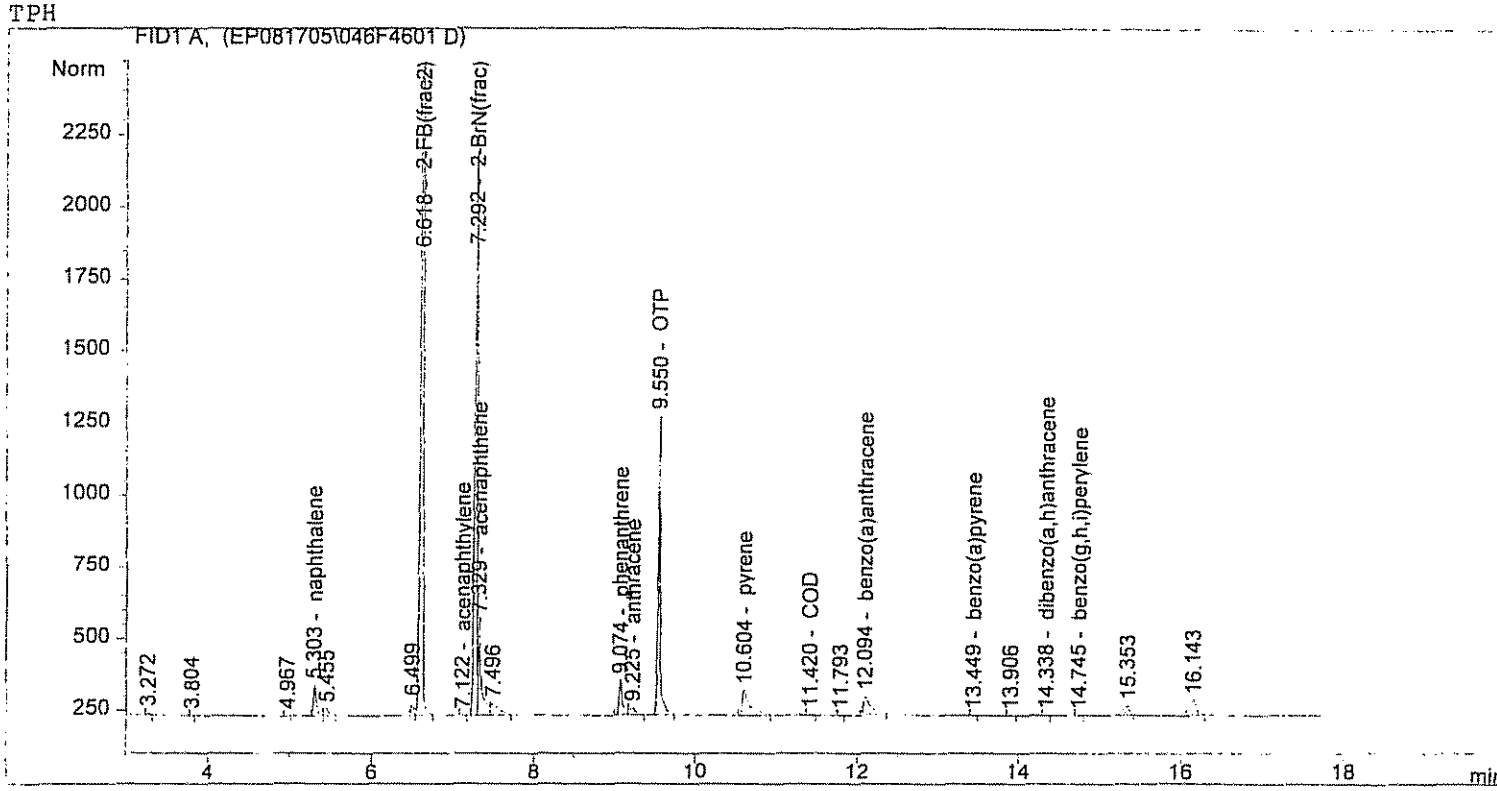
Results obtained with enhanced integrator!
3 Warnings or Errors :

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 x1 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

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	

Analyst: _____ 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-R7N	6/23/06	EPH Aliphatic	1mL	2 mL	1000ug/mL	40ug/mL	Hex		6/23/05	6/23/05	DLS
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	DLS
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	DLS
F	ECD03-V12Q	↓	Frac	400ul	10mL	1000ug/mL	↓	↓	↓	↓	↓	↓
G	SV03-~~R7T~~ 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-R6U	1/26/06	Herb ICAL Std	50ul	25ml	200ug/mL	400 ug/L	Hexane		1/26/05	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-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	↓	30ul	↓	5000ug/mL	↓	↓		↓	↓	↓
V	ECD03-R7Z	9/6/06	1016/260 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.

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

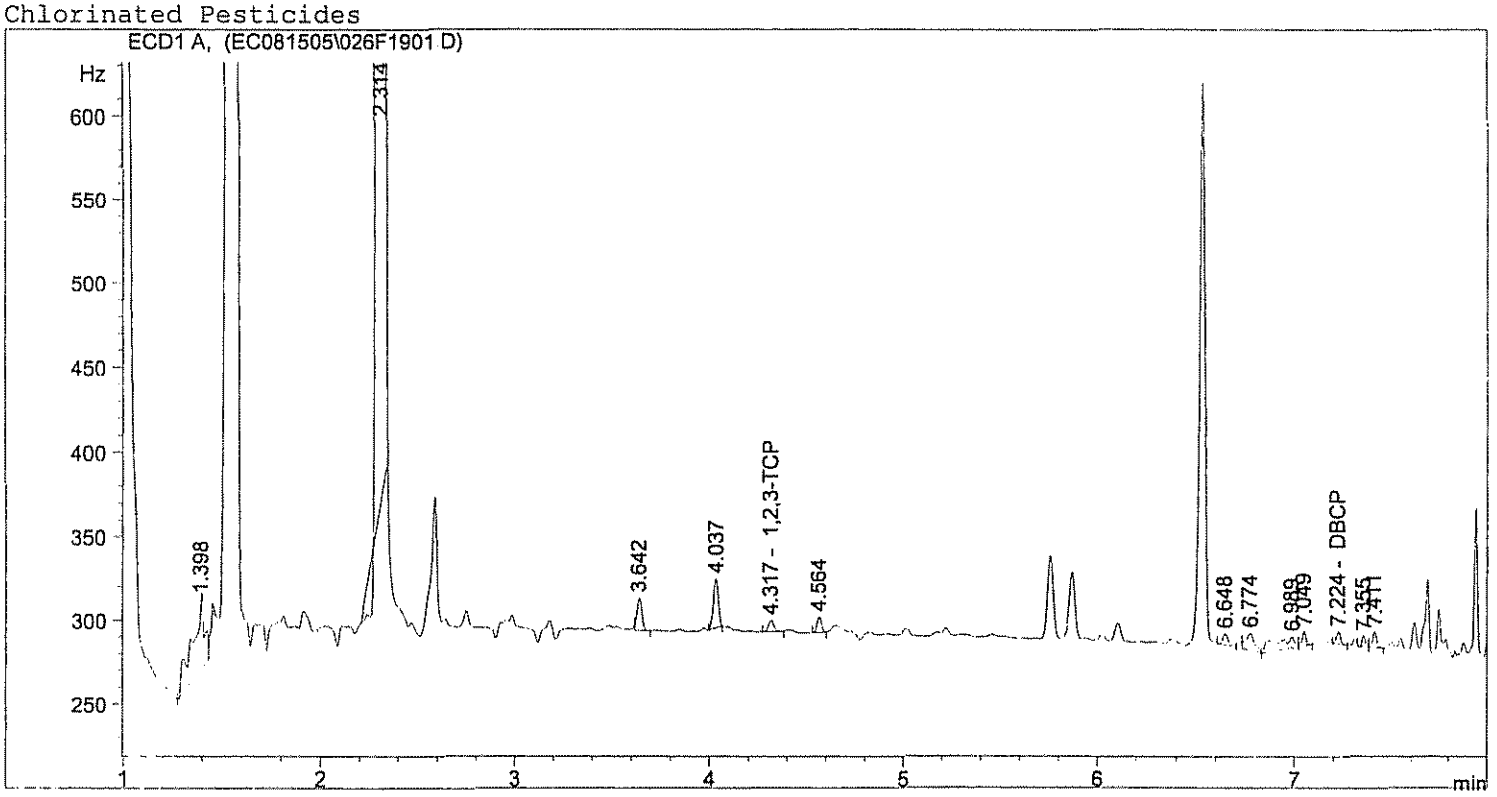
EDB Sample Raw Data

161-2104

Injection Date : 08/15/05 06:28:42 PM
Sample Name : G161-2104-1R x1
Acq. Operator : clp

Seq. Line : 19
Location : Vial 26
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
4.317	PB	12.70322	0.00000	0.00000		1,2,3-TCP
7.224	BB	10.87220	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), (1,2,3-TCP)
Warning : Negative results set to zero (cal. curve intercept), (DBCP)

CD 8/16 2:02

EDB Calibration Raw Data

Method 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,

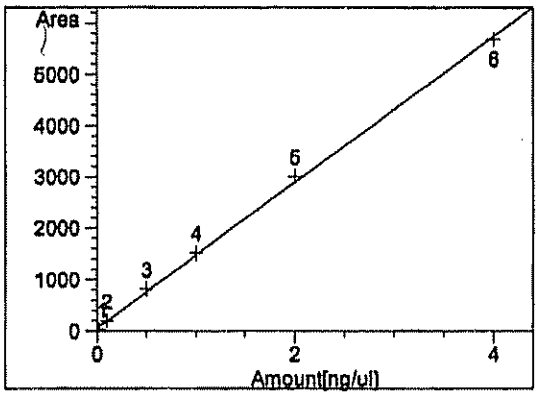
RetTime [min]	Lvl Sig		Amount [ng/ul]	Area	Amt/Area	Ref	Grp	Name
2.423	1	1	2.00000e-2	26.33943	7.59318e-4			EDB
		2	1.00000e-1	194.84070	5.13240e-4			
		3	5.00000e-1	816.20886	6.12588e-4			
		4	1.00000	1507.78394	6.63225e-4			
		5	2.00000	3007.47900	6.65009e-4			
		6	4.00000	5671.67920	7.05259e-4			
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

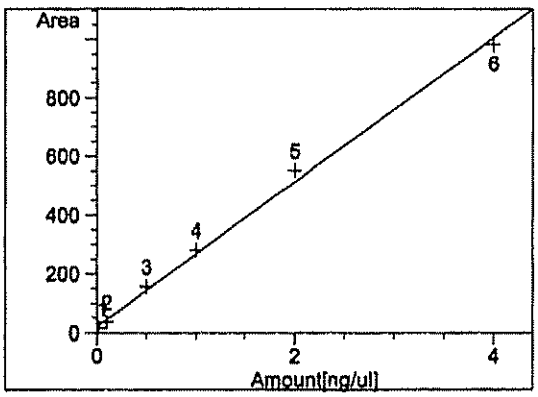
No Entries in table

Method C:\HPCHEM\1\DATA\EC081505\EDB.M

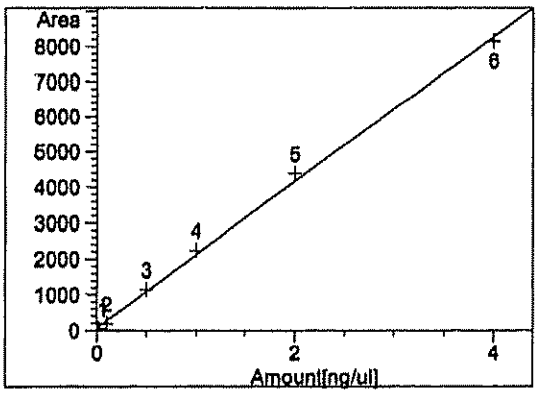
Calibration Curves



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

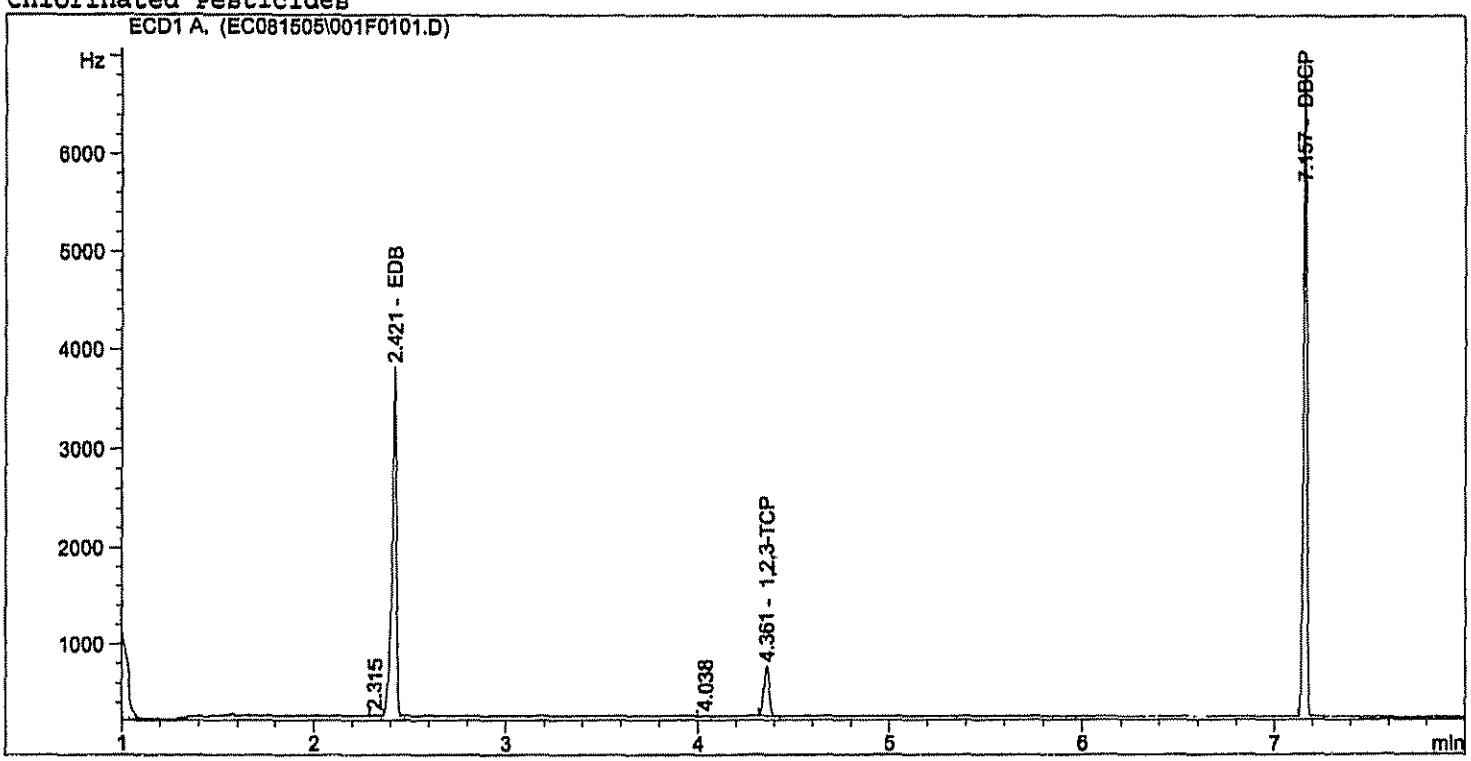


DBCP at exp. RT: 7.158
ECD1 A,
Correlation: 0.99913
Residual Std. Dev.: 137.70500
Formula: y = mx + b
m: 2050.33363
b: 75.24536
x: Amount [ng/ul]
y: Area

Data 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

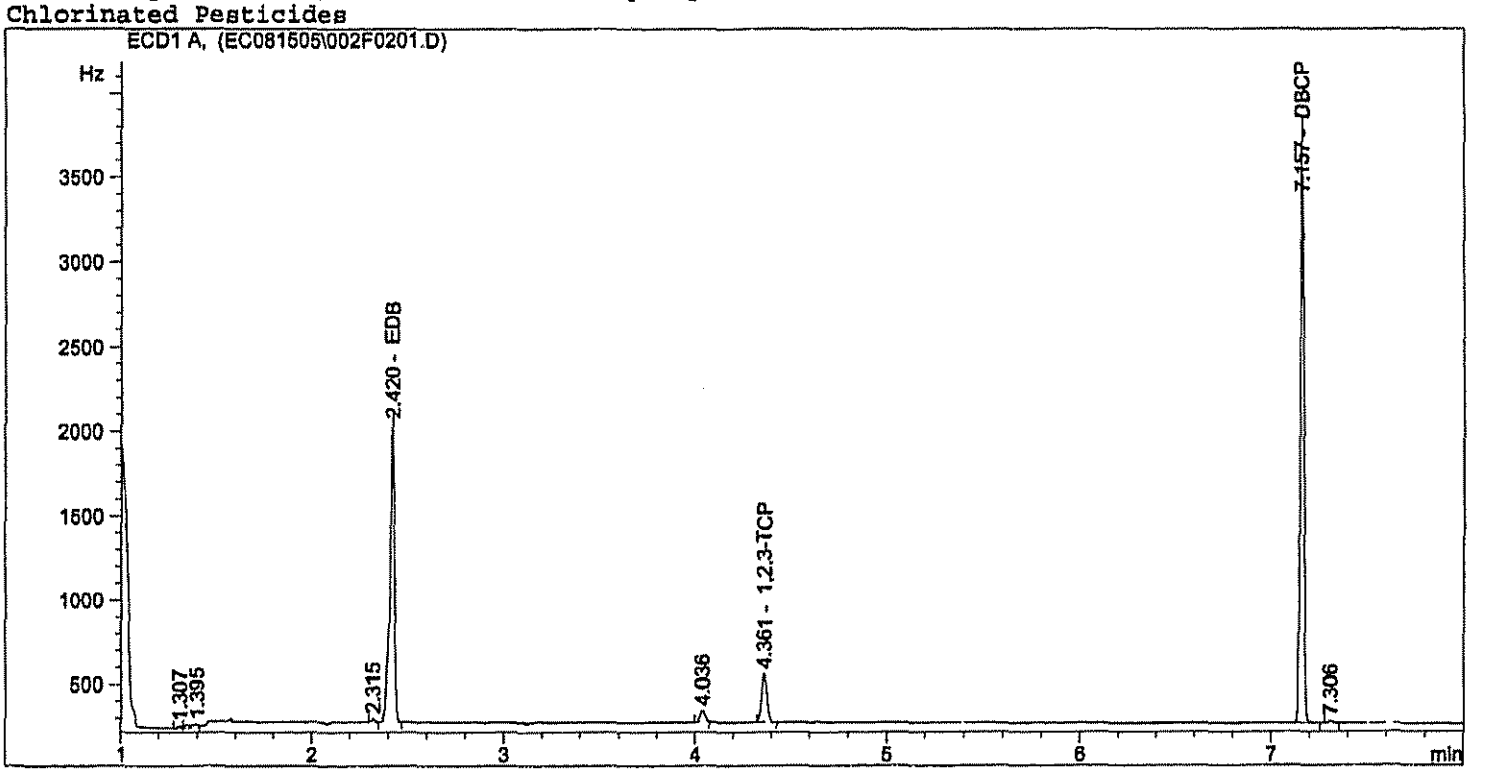
Results obtained with enhanced integrator!

*** 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!

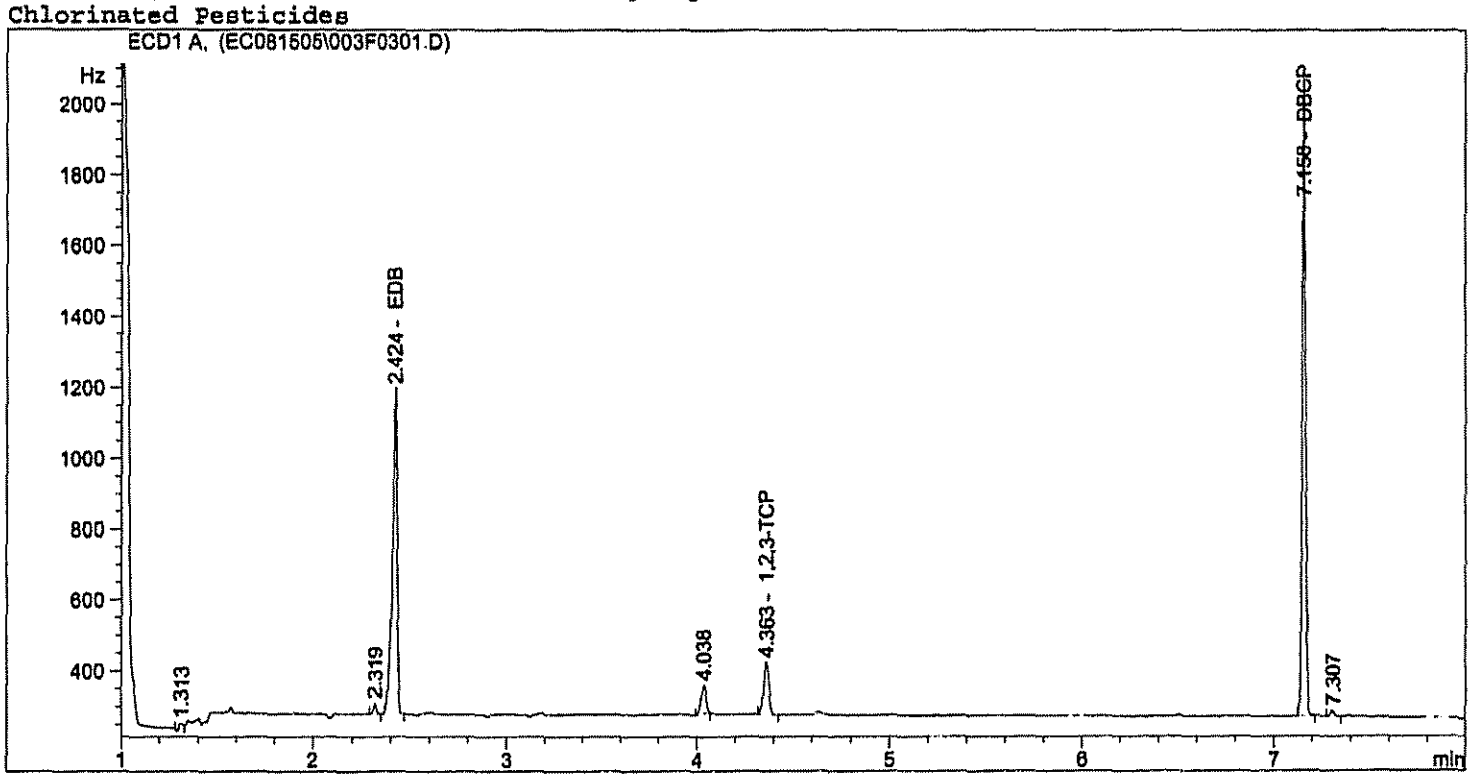
*** End of Report ***

ECD2 11/14/05 10:14:26 AM clp

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

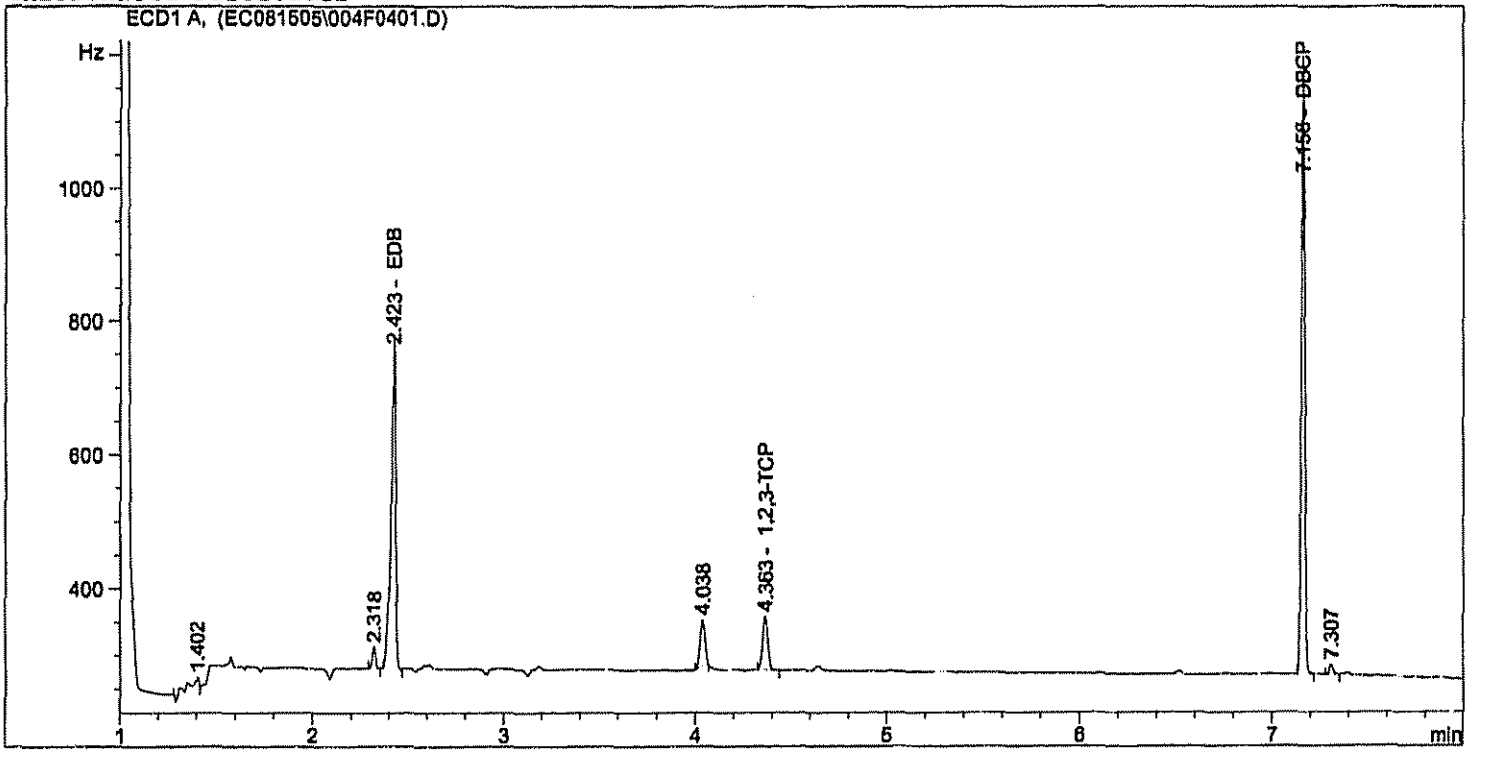
Results obtained with enhanced integrator!

*** 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

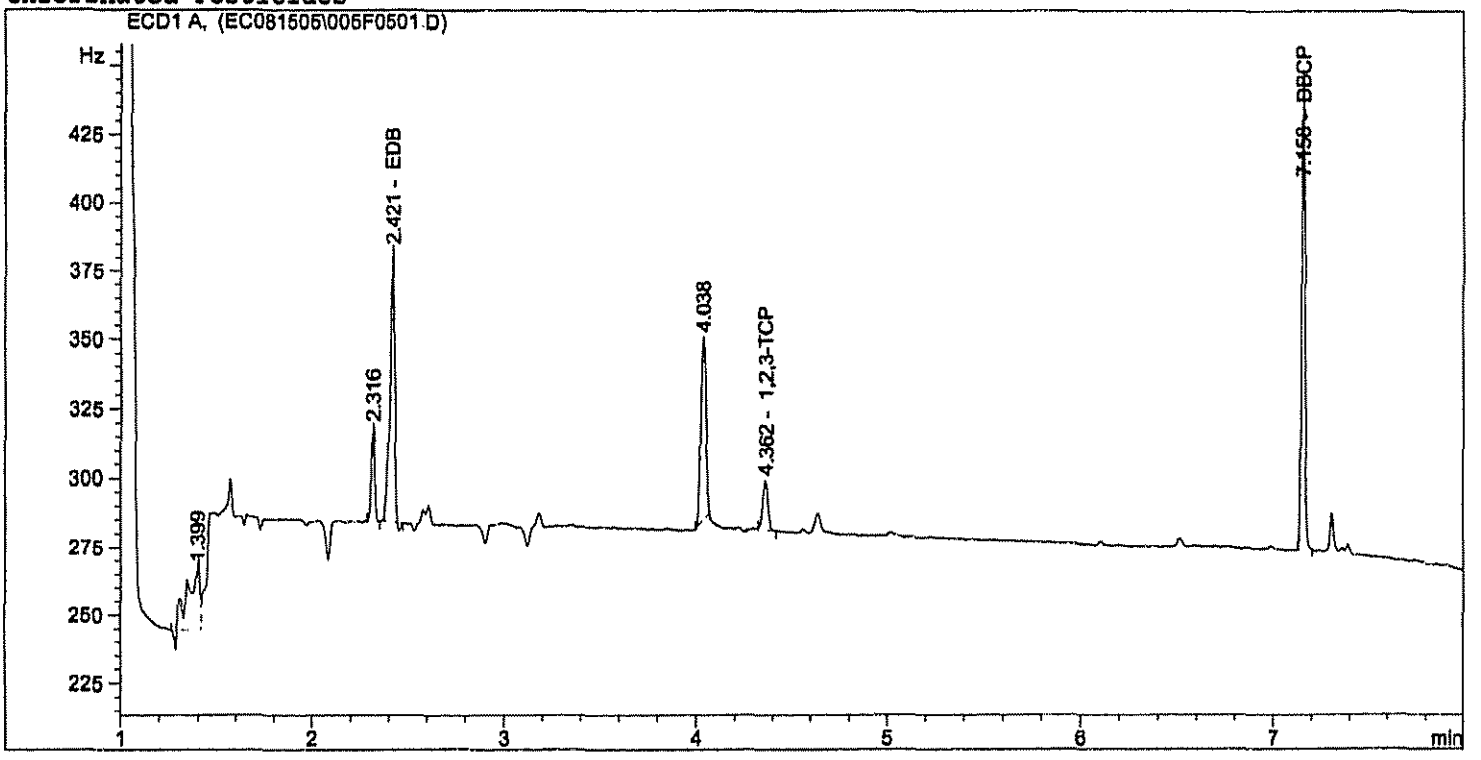
Results obtained with enhanced integrator!

*** End of Report ***

)ata 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

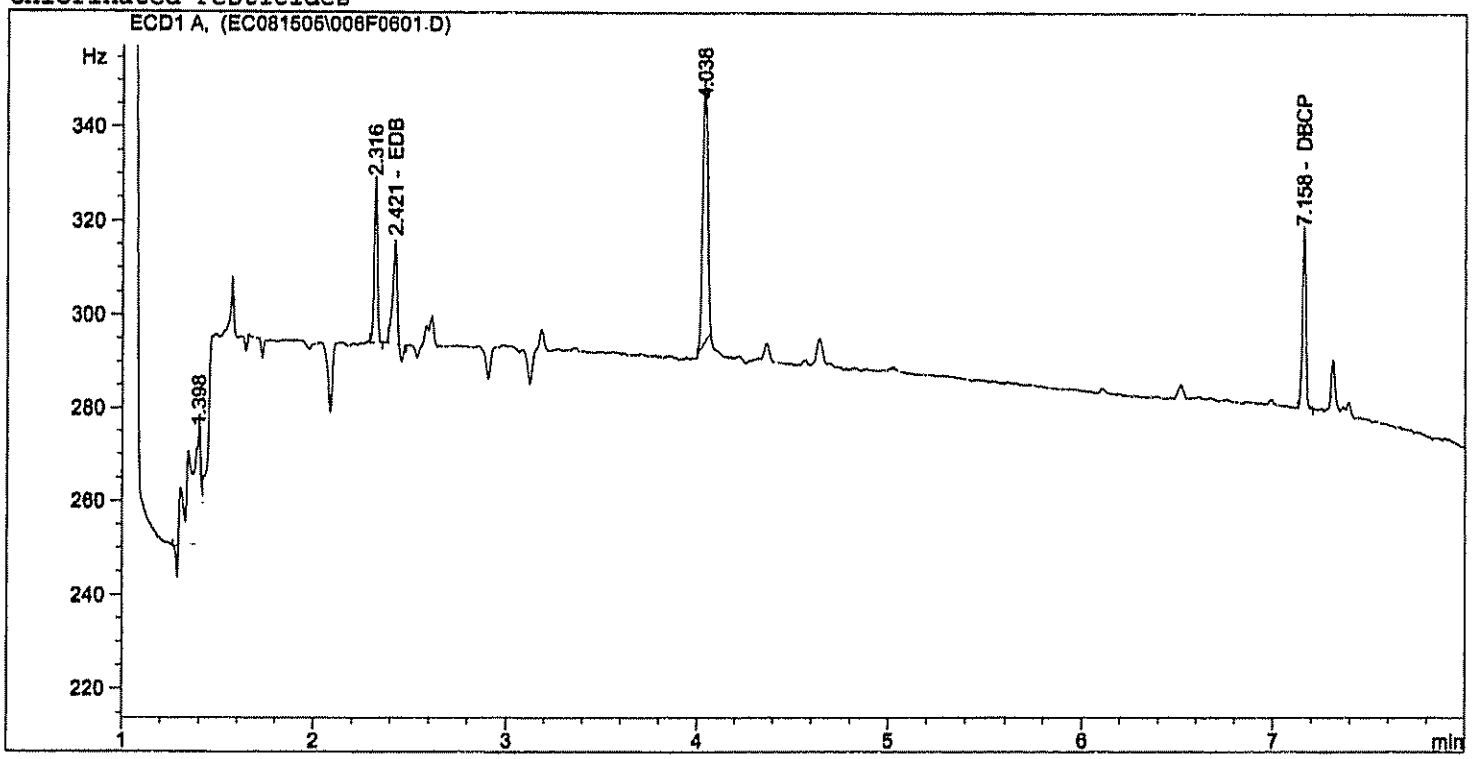
Results obtained with enhanced integrator!

*** 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 ***

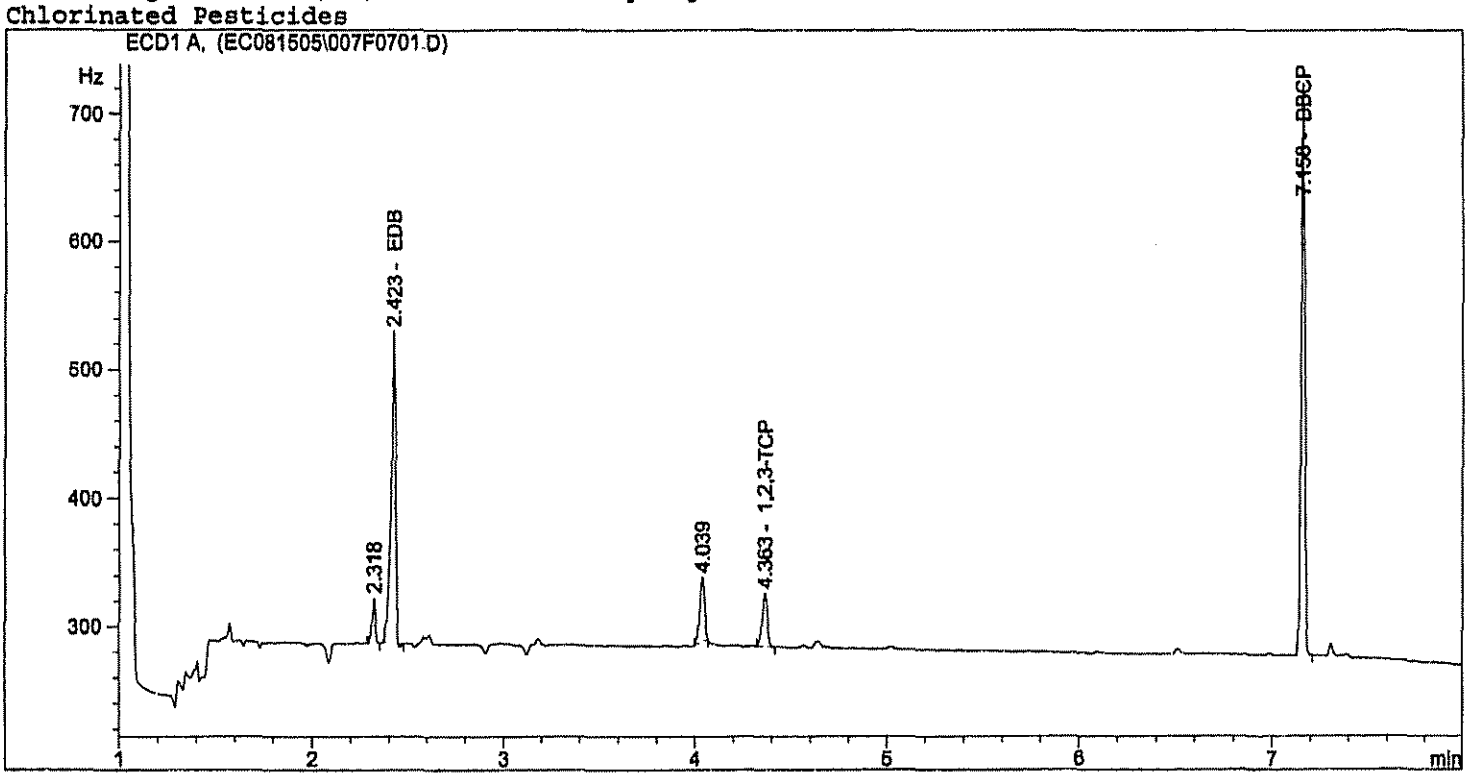
CD2 11/14/05 10:14:56 AM clp

EDB CVS Raw Data

Data 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



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	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

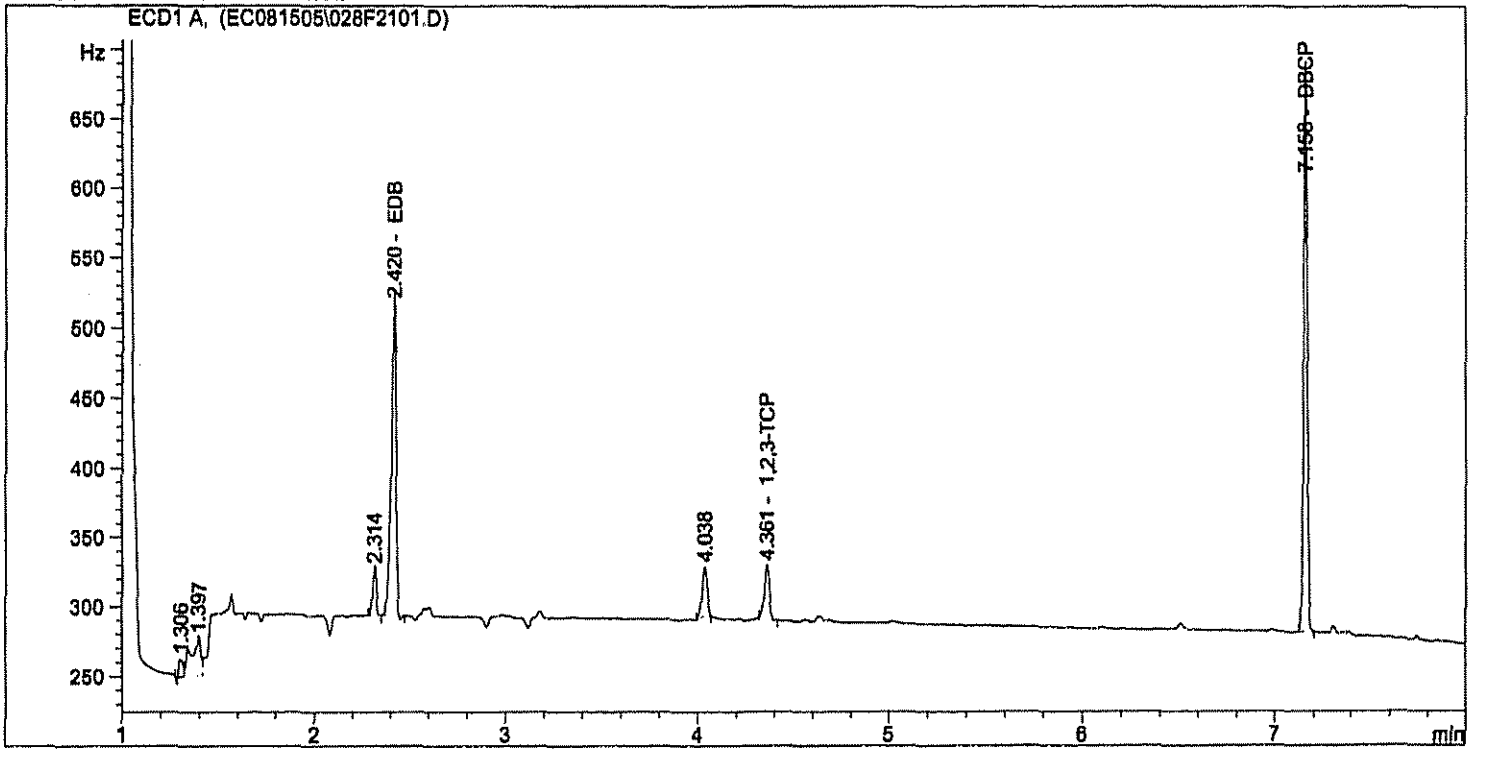
Results obtained with enhanced integrator!

*** End of Report ***

ata 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!

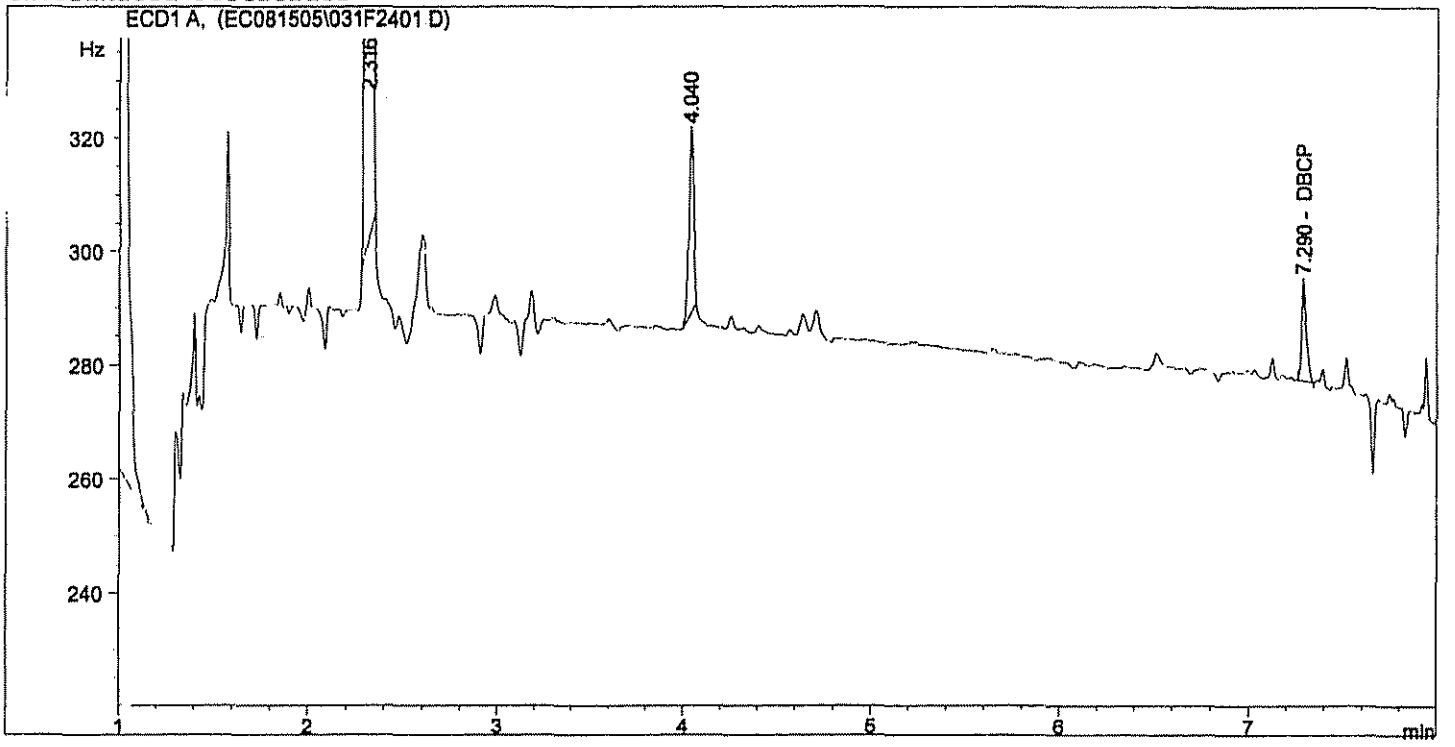
*** End of Report ***

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 ***

ECD2 08/16/05 12:26:30 PM clp

Data File C:\HPCHEM\1\DATA\EC081505\033F2601.D Sample Name: 152633 x1 MS
ECD2 08/16/05 12:26:36 PM clp

==========

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

==========

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		

==========

*** 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

==========

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

==========

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		

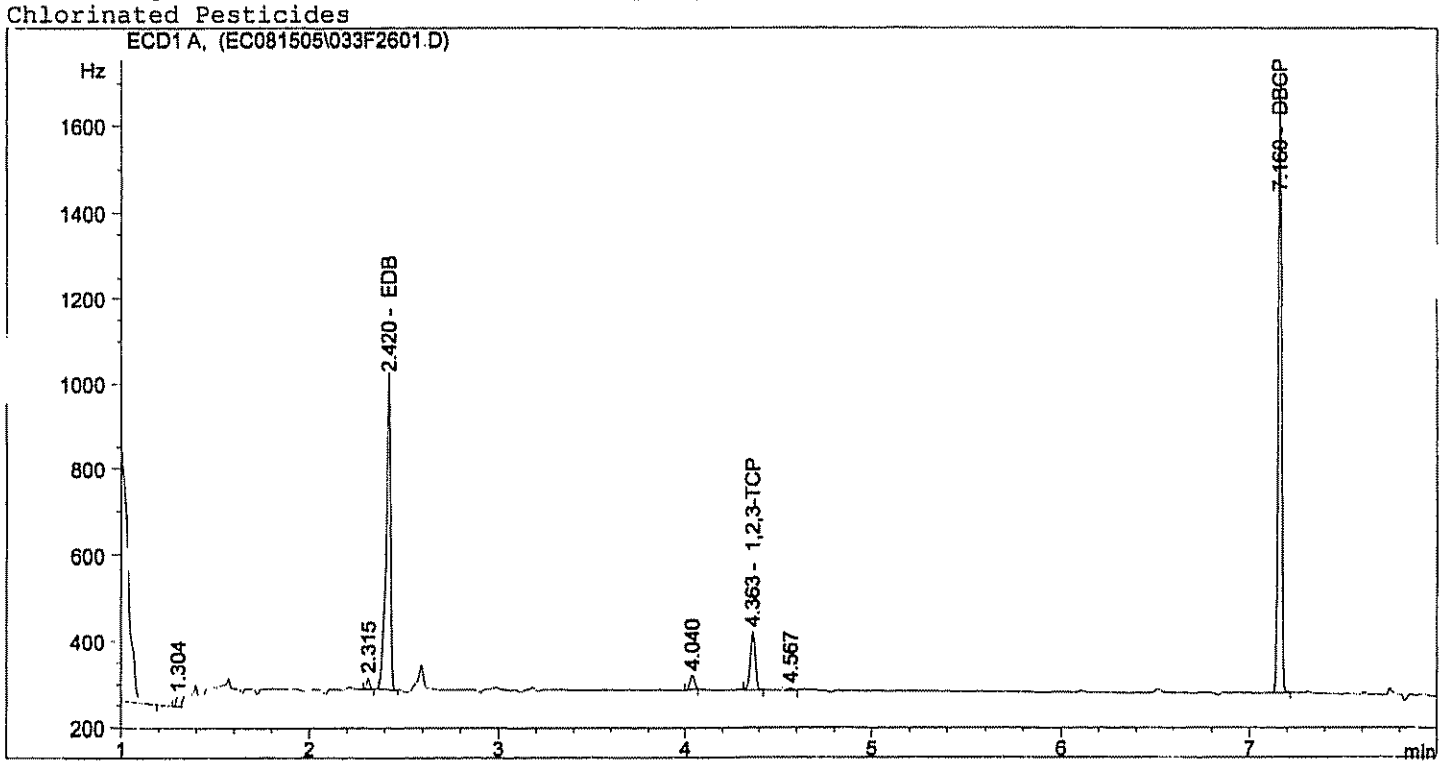
==========

*** 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

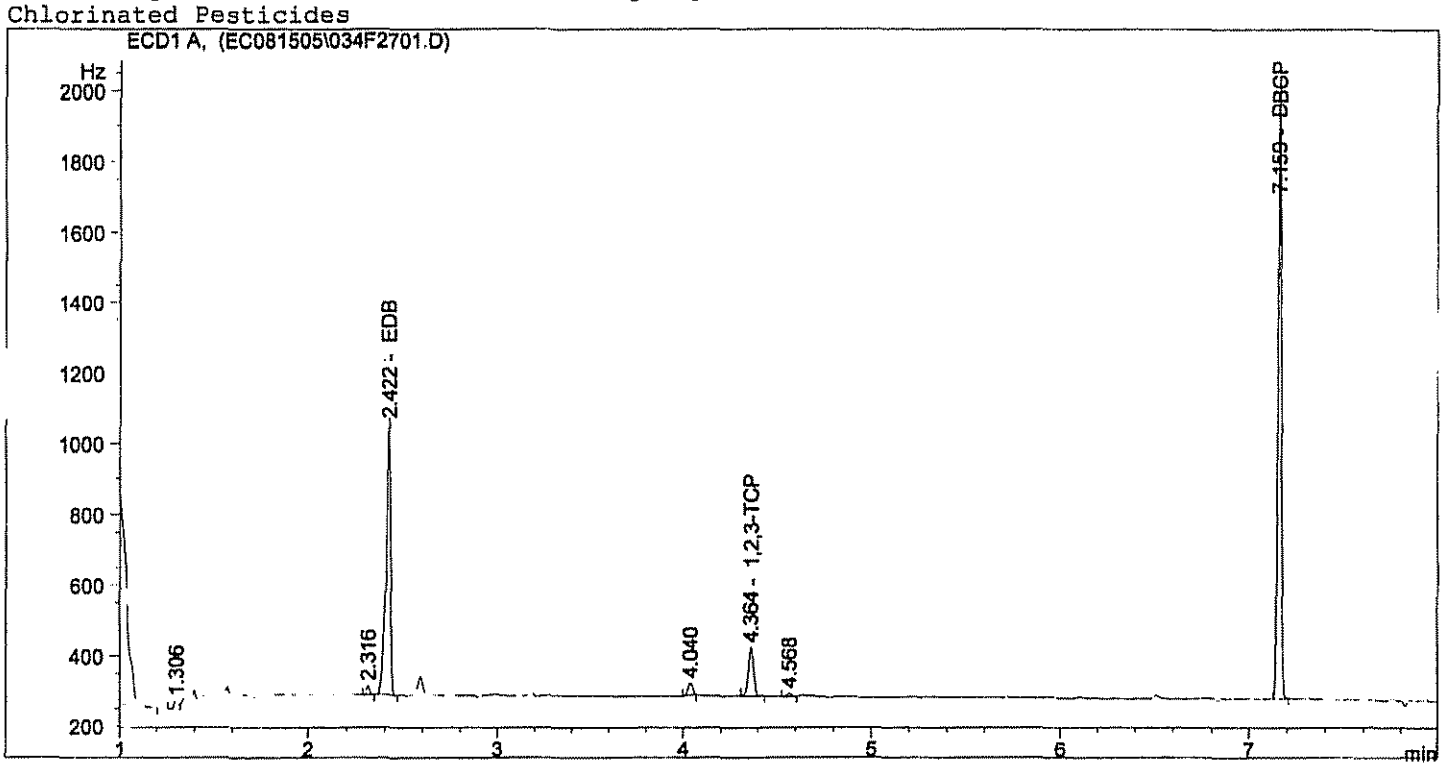
Results obtained with enhanced integrator!

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EC081505\034F2701.D Sample Name: 152634 x1 MSD

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



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!

*** End of Report ***

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: _____

8011_LIMS_1 32

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	

Analyst: _____ 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	2000ug/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-~~W17L~~ 05		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	40ul	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	~~SV03~~ ECD03-R6U	12/26/06	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	4000ug/L	↓		↓	↓	↓
Q	ECD03-R6U	1/19/06				20000ug/mL	40000ug/L					
R	ECD03-R6R	12/29/05				200ug/mL	400 ug/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	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.

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 sol'n							
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

SIERRA PROPERT
LABORATORY DATA SHEETS AND CHAIN OF CUSTODY RECORDS

SIERRA PROPERTY CHECKLIST– August 2005 Sampling

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2104 Collected August 3, 2005	RSMW-1	
	Trip Blank (QC)	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Groundwater
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/601 and 602; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; Ethylene Dibromide (EDB)/504.1; and Lead (Pb)/6020
QA Reporting Levels:	All samples received a Level II Data Validation

ARCADIS G&M, Inc.
4915 Prospectus Drive, Suite F
Durham, North Carolina 27713
Tel 919-544-4535
Fax 919-544-5690

Project: Sierra Property

GROUNDWATER

Project Number:
NC105012.0001.RN001

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 this August 2005 groundwater sample. It should be noted that field QC samples were collected at the appropriate frequency.

One Trip Blank 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)/601 and 602; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; and Ethylene Dibromide (EDB)/504.1. Performance was acceptable, with the following exceptions and notes:

3A. The Method Blanks (MB) associated with this sample 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. Batch samples were used for the MS/MSD analyses and were not evaluated for matrix interference with our samples.

7-9. The LCS recoveries were within control limits.

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 each batch of samples did not detect any of the target compounds above the reporting limit.

4-6. Batch samples were used for the MS/MSD 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.

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 6020 for Lead (Pb). Performance was acceptable, with the following exceptions and notes.

2. Sample RSMW-1 was diluted 1:25, even though the result was nondetect. According to the laboratory, 1:25 is the standard dilution for 6020 analyses. The samples are digested with hydrochloric acid, which causes interferences with the mass spectrometer. However, the detection limit is so low with 6020, that even with the 1:25 dilution, the reporting limit is on par with an undiluted 6010 analysis.

3A. None of the blanks detected Pb at concentrations above the reporting limit.

4-6. The LCS/LCSD recoveries and RPD were within control limits.

7-9. A batch sample was used for the MS/MSD analysis and was not evaluated for matrix interference with our sample.

DATA VALIDATION CHECKLIST

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2104 Collected August 3, 2005	RSMW-1	
	Trip Blank (QC)	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Groundwater
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/601 and 602; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH; Ethylene Dibromide (EDB)/504.1; and Lead (Pb)/6020
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# 43665
Page 1 of 1

Client: ECS, Ltd **Project ID:** Sierra Property **Date:** 8/3/05 **Report To:** jricks@ecslimited.com
Address: 6909 Industrial 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: HCL	None	HNO3		Analyses: 601/602	EPH	VPH	504.1 (EDB)	3030C-Pb	625 BN+10 Tics					Comments: Please specify any special reporting requirements
RSmw-1	8/3/05	12:15	GW	X	X	X		X	X	X	X	X	X					City of Greensboro Project
Trip Blank	↓	–	↓	X				X										
																		G161-2104

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	8/3/05	3:30	[signature]	8/4/05	1030	1-2°C	NC (X) SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Results for Volatiles
by GC 601

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1B
Lab Project ID: G161-2104

Analyzed By: MJC
Date Collected: 8/3/2005 12:15
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	**1.02**	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	**3.67**	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	**1.25**	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	**7.29**	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	**35.5**	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	**5.12**	1.00	1	8/10/2005
Trichlorofluoromethane	BQL	1.00	1	8/10/2005
Vinyl Chloride	**3.67**	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: _____

Results for Volatiles
by GC 601

Client Sample ID: Trip Blank
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-2A
Lab Project ID: G161-2104

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	40.6	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID:	RSMW-1	Analyzed By:	MJC
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 12:15
Lab Sample ID:	G161-2104-1B	Date Received:	8/4/2005
Lab Project ID:	G161-2104	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	102

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID:	Trip Blank	Analyzed By:	MJC
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 0:00
Lab Sample ID:	G161-2104-2A	Date Received:	8/4/2005
Lab Project ID:	G161-2104	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	40.3	101

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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: RSMW-1
Client Project ID: Sierra Property
Lab Sample ID: G161-2104-1N
Lab Project ID: G161-2104

Analyzed By: MRC
Date Collected: 8/3/2005 12:15
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	8.9	89
Nitrobenzene-d5	10	9.5	95
4-Terphenyl-d14	10	13.9	139

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: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	08/03/05
Date Received	08/04/05
Date Extracted	08/09/05
Date Analyzed	08/09/05
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: g161-2104-1e

Reviewed By: RNV

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Sierra Property

Sample Information and Analytical Results	
Sample Identification	RSMW-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	64
Aromatic Surrogate % Recovery	76
Fractionation Surrogate 1 % Recovery	120

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2104-1O

Reviewed By: [illegible]

Results for Organics
by EPA 504

Client Sample ID:	RSMW-1	Analyzed By:	CLP
Client Project ID:	Sierra Property	Date Collected:	8/3/05 12:15
Lab Sample ID:	G161-2104-1R	Date Received:	8/4/05 10:30
Lab Project ID:	G161-2104	Matrix:	Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Ethylene Dibromide	BQL	0.0191	1	8/15/05

Reviewed By: _____

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Results for Metals

Client Sample ID:	RSMW-1	Analyzed By:	RML
Client Project ID:	Sierra Property	Date Collected:	8/3/2005 12:15
Lab Sample ID:	G161-2104-1	Date Received:	8/4/05
Lab Project ID:	G161-2104	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: _____
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