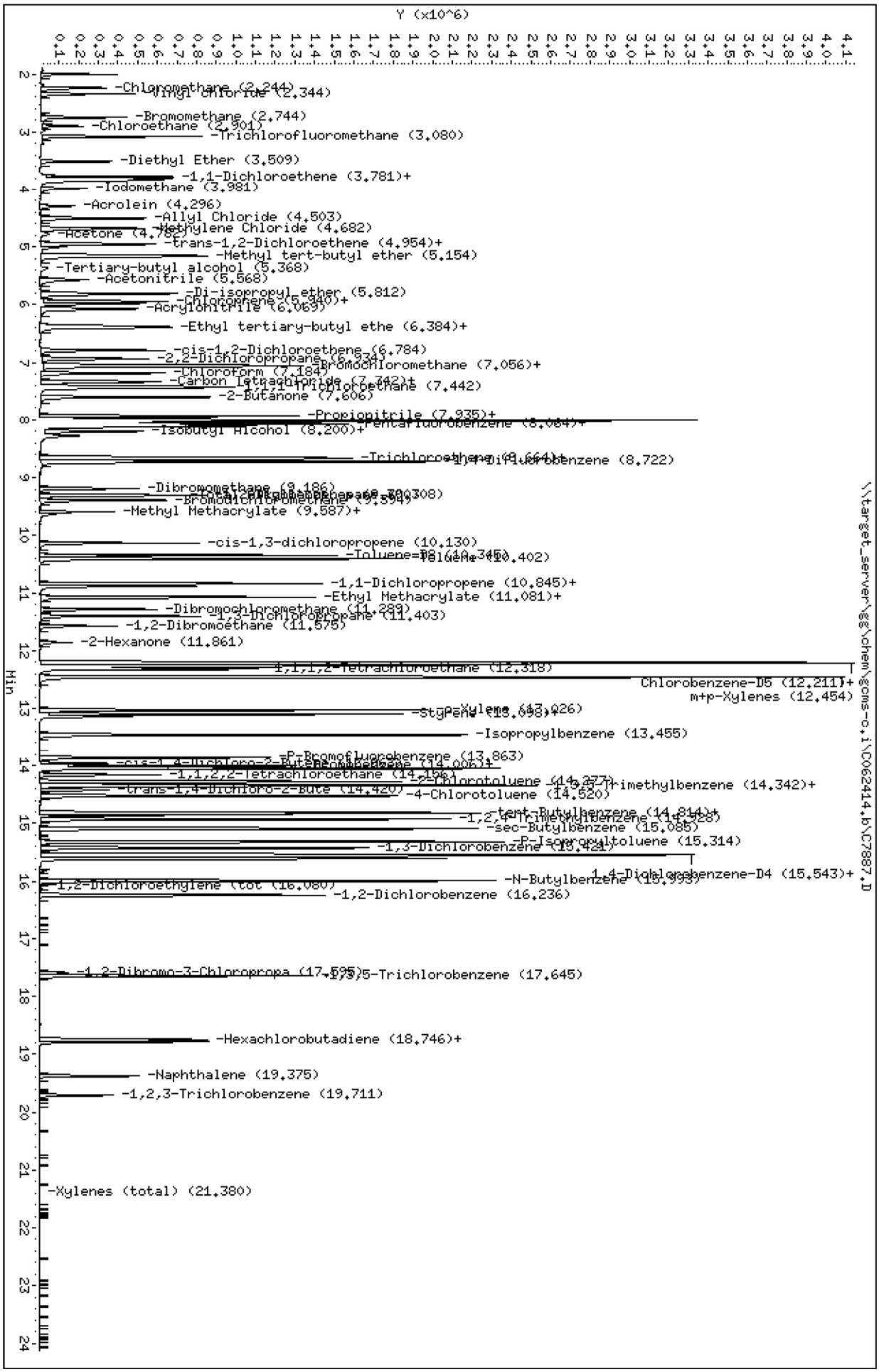


Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7887.D
Date : 24-JUN-2014 17:32
Client ID: FTA-MW-210-061814MS
Sample Info: WG145321-5,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-c.i\C062414.b\C7887.D

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7888.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7888.D
Lab Smp Id: WG145321-6 Client Smp ID: FTA-MW-210-061814MS
Inj Date : 24-JUN-2014 18:02 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-6,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-8
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.002	2.000	(0.248)	324876	74.2474	74.2	
2	Chloromethane	50	2.245	2.236	(0.278)	427093	59.5793	59.6	
3	Vinyl chloride	62	2.345	2.343	(0.291)	379290	62.2928	62.3	
4	Bromomethane	94	2.746	2.744	(0.340)	268287	61.2572	61.2	
5	Chloroethane	64	2.903	2.894	(0.360)	134512	50.5628	50.6	
6	Trichlorofluoromethane	101	3.082	3.080	(0.382)	647512	69.2700	69.3	
7	Diethyl Ether	59	3.511	3.509	(0.435)	223260	61.3109	61.3	
8	Tertiary-butyl alcohol	59	5.363	5.361	(0.665)	57307	208.885	209	
9	1,1-Dichloroethene	96	3.775	3.773	(0.468)	280037	59.3107	59.3	
10	Carbon Disulfide	76	3.811	3.809	(0.473)	872898	61.7566	61.8	
11	Freon-113	151	3.840	3.838	(0.476)	181016	48.0596	48.0	
12	Iodomethane	142	3.983	3.981	(0.494)	347572	55.1480	55.1	
13	Acrolein	56	4.290	4.288	(0.532)	206883	253.810	254	
14	Methylene Chloride	84	4.676	4.681	(0.580)	328982	57.3364	57.3	
15	Acetone	43	4.784	4.774	(0.593)	74520	51.1229	51.1	
16	Isobutyl Alcohol	43	8.273	8.271	(1.026)	150493	1048.94	1050	
17	trans-1,2-Dichloroethene	96	4.948	4.946	(0.614)	304611	54.2649	54.3	
18	Allyl Chloride	41	4.505	4.502	(0.559)	455221	58.2329	58.2	
19	Methyl tert-butyl ether	73	5.155	5.153	(0.639)	1139408	107.962	108	
20	Acetonitrile	39	5.570	5.568	(0.691)	85695	586.176	586	
21	Di-isopropyl ether	45	5.806	5.811	(0.720)	812984	55.6769	55.7	
22	Chloroprene	53	5.942	5.940	(0.737)	439473	58.5209	58.5	
23	Propionitrile	54	7.987	7.985	(0.990)	383472	608.739	609(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7888.D
Report Date: 15-Jul-2014 12:24

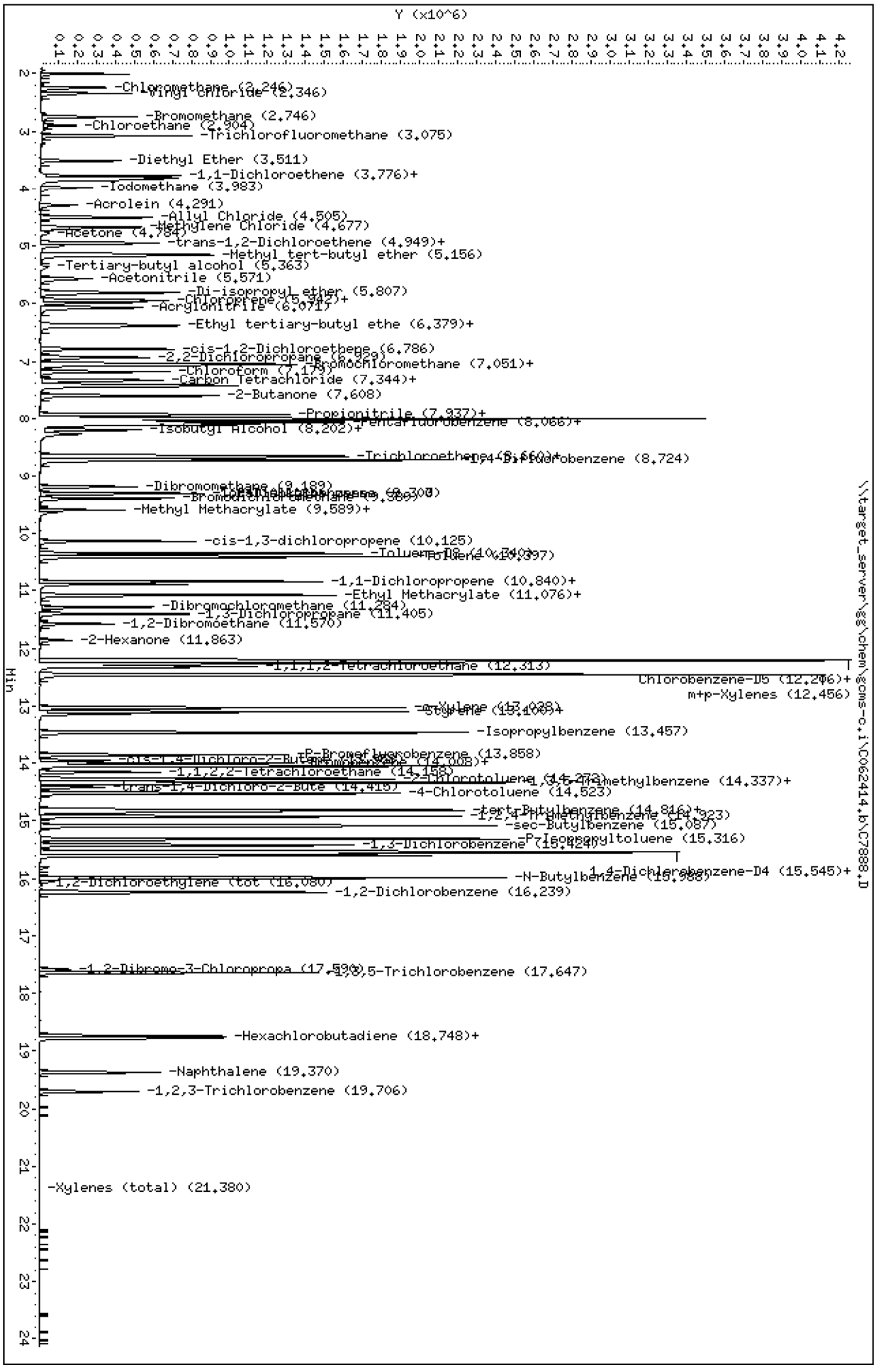
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.008	8.013	(0.993)	1625318	636.493	636(R)	
	25	1,1-Dichloroethane	63	5.978	5.975	(0.741)	572340	61.3807	61.4	
	26	Acrylonitrile	52	6.071	6.068	(0.753)	408791	285.824	286	
	27	Ethyl tertiary-butyl ether	59	6.378	6.376	(0.791)	630845	51.5230	51.5	
	28	Vinyl Acetate	43	6.392	6.397	(0.733)	568015	49.5518	49.6	
	29	cis-1,2-Dichloroethene	96	6.786	6.783	(0.841)	323134	53.9897	54.0	
M	30	1,2-Dichloroethylene (total)	96				627745	108.255	108	
	31	Methyl Methacrylate	41	9.589	9.586	(1.099)	196415	44.8747	44.9	
	32	2,2-Dichloropropane	77	6.929	6.934	(0.859)	378826	52.2597	52.2	
	33	Bromochloromethane	128	7.057	7.062	(0.875)	155276	51.0513	51.0	
	34	Chloroform	83	7.179	7.177	(0.890)	557286	58.2157	58.2	
	35	Carbon Tetrachloride	117	7.343	7.341	(0.842)	442584	55.6336	55.6	
	36	Tetrahydrofuran	42	7.386	7.384	(0.916)	53139	47.2557	47.2	
$	37	Dibromofluoromethane	113	7.422	7.427	(0.920)	285189	48.7819	48.8	
	38	1,1,1-Trichloroethane	97	7.436	7.441	(0.922)	501177	58.6786	58.7	
	39	1,1-Dichloropropene	75	10.890	10.888	(1.248)	374610	51.7950	51.8	
	40	2-Butanone	43	7.608	7.606	(0.943)	94684	52.7129	52.7	
	41	Benzene	78	7.937	7.935	(0.910)	1167485	53.4814	53.5	
*	42	Pentafluorobenzene	168	8.066	8.063	(1.000)	1028830	50.0000		
	43	Cyclohexane	56	7.050	7.048	(0.874)	502155	63.1210	63.1	
	44	Ethyl Methacrylate	69	11.076	11.081	(1.270)	307823	46.0124	46.0	
$	45	1,2-Dichloroethane-D4	65	8.108	8.113	(1.005)	330076	55.5064	55.5	
	46	Tertiary-amyl methyl ether	73	8.101	8.099	(1.004)	518590	49.4895	49.5	
	47	1,2-Dichloroethane	62	8.201	8.199	(0.940)	397157	55.2010	55.2	
	48	Trichloroethene	95	8.673	8.670	(0.994)	323766	54.3998	54.4	
*	49	1,4-Difluorobenzene	114	8.723	8.721	(1.000)	1600121	50.0000		
	50	Dibromomethane	93	9.181	9.186	(1.052)	184279	49.0716	49.1	
	51	1,2-Dichloropropane	63	9.303	9.307	(1.066)	293163	55.5955	55.6	
	52	Bromodichloromethane	83	9.388	9.386	(1.076)	428540	57.3253	57.3	
	53	cis-1,3-dichloropropene	75	10.125	10.130	(1.161)	423895	50.2519	50.2	
	54	1,4-Dioxane	88	9.631	9.629	(1.104)	58260	845.231	845	
$	55	Toluene-D8	98	10.339	10.344	(1.185)	952670	47.6136	47.6	
	57	Toluene	92	10.397	10.401	(1.192)	757231	52.8351	52.8	
	58	4-methyl-2-pentanone	43	10.847	10.845	(1.243)	196365	48.4566	48.4	
	59	Tetrachloroethene	164	10.840	10.845	(0.888)	280909	43.4307	43.4	
	60	trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	374610	51.7950	51.8	
	61	1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	227321	52.3141	52.3	
	62	Dibromochloromethane	129	11.283	11.288	(0.924)	313886	48.6664	48.7	
	63	1,3-Dichloropropane	76	11.405	11.402	(0.934)	464824	52.2323	52.2	
	64	1,2-Dibromoethane	107	11.576	11.574	(1.327)	267221	47.5703	47.6	
	65	2-Hexanone	43	11.862	11.860	(0.971)	122674	39.2629	39.3	
*	66	Chlorobenzene-D5	117	12.213	12.210	(1.000)	1645928	50.0000		
	67	Chlorobenzene	112	12.234	12.232	(1.002)	909027	54.4335	54.4	
	152	1-Chlorohexane	91	12.205	12.203	(0.999)	503590	50.7488	50.7	
	68	Ethylbenzene	106	12.263	12.268	(1.004)	485183	49.7065	49.7	
	69	1,1,1,2-Tetrachloroethane	131	12.313	12.318	(1.008)	328416	49.3438	49.3	
M	70	Xylenes (total)	106				1779296	164.886	165	
	71	m+p-Xylenes	106	12.456	12.453	(1.020)	1215025	110.132	110	
	72	o-Xylene	106	13.028	13.025	(1.067)	564271	54.7545	54.8	
	73	Styrene	104	13.099	13.097	(1.073)	941372	53.3053	53.3	
	74	Bromoform	173	13.135	13.140	(1.076)	208846	45.8511	45.8	
	75	Isopropylbenzene	105	13.457	13.462	(0.866)	1554578	55.1483	55.1	
$	76	P-Bromofluorobenzene	95	13.857	13.855	(1.588)	438397	51.1126	51.1	
	77	cis-1,4-Dichloro-2-Butene	53	13.957	13.962	(0.898)	85060	42.4747	42.5	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7888.D
Report Date: 15-Jul-2014 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.415	14.420	(0.928)	82732	44.2769	44.3	
	79 Bromobenzene	156	14.007	14.005	(0.902)	408285	47.9990	48.0	
	80 N-Propylbenzene	91	14.043	14.048	(0.904)	1924727	60.3622	60.4	
	81 1,1,2,2-Tetrachloroethane	83	14.157	14.155	(0.911)	349456	50.8643	50.9	
	82 1,3,5-Trimethylbenzene	105	14.336	14.341	(0.923)	1301416	49.6290	49.6	
	83 2-Chlorotoluene	91	14.272	14.277	(0.919)	1097179	59.1745	59.2	
	84 1,2,3-Trichloropropane	75	14.351	14.355	(0.924)	286706	53.9862	54.0	
	85 4-Chlorotoluene	91	14.522	14.520	(0.935)	1141573	61.5550	61.6	
	86 tert-Butylbenzene	119	14.815	14.813	(0.954)	1404167	58.7565	58.8	
	87 Pentachloroethane	117	14.844	14.849	(0.955)	293736	51.8682	51.9	
	88 1,2,4-Trimethylbenzene	105	14.923	14.927	(0.960)	1288182	50.3400	50.3	
	89 P-Isopropyltoluene	119	15.316	15.313	(0.986)	1504433	54.6855	54.7	
	90 1,3-Dichlorobenzene	146	15.423	15.421	(0.993)	782426	53.6595	53.6	
*	91 1,4-Dichlorobenzene-D4	152	15.537	15.542	(1.000)	970507	50.0000		
	92 1,4-Dichlorobenzene	146	15.566	15.564	(1.002)	802148	48.9288	48.9	
	93 N-Butylbenzene	91	15.988	15.993	(1.029)	1467790	57.0623	57.1	
	94 sec-Butylbenzene	105	15.087	15.092	(0.971)	1840068	59.2242	59.2	
	95 1,2-Dichlorobenzene	146	16.238	16.242	(1.045)	697920	53.4626	53.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.590	17.594	(1.132)	44496	45.1765	45.2	
	97 1,3,5-Trichlorobenzene	180	17.647	17.644	(1.136)	542818	45.5868	45.6	
	98 Hexachlorobutadiene	225	18.748	18.746	(1.207)	207189	43.4821	43.5	
	99 1,2,4-Trichlorobenzene	180	18.784	18.788	(1.209)	335040	42.0681	42.1	
	100 1,2,3-Trimethylbenzene	105	15.602	15.607	(1.004)	1281428	52.9459	52.9	
	101 Naphthalene	128	19.370	19.375	(1.247)	536535	42.0387	42.0	
	102 1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	180874	42.6091	42.6	
	103 Methyl Acetate	43	4.998	4.996	(0.620)	170016	51.7500	51.8	
	104 Methylcyclohexane	83	8.652	8.650	(1.073)	561089	60.5015	60.5	
M	153 Total Alkylbenzenes	100				10730783	390.060	390	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7888.D
Date : 24-JUN-2014 18:02
Client ID: FTA-MW-210-061814MS
Sample Info: WG145321-6,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

MS/MSD Recovery Report

MS ID: WG145321-7
MSD ID: WG145321-8
Sample ID: SH4521-14
Client ID: FTA-SW-03-061914
Project:
SDG: WE53-7
MS File ID: C7889.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321
Report Date: 15-JUL-14
MSD File ID: C7890.D

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Chloromethane	50.0	50.0	ug/L	UMM1.0	63.7	74.0	127.*	148.*	15	30	40-125
Chloroethane	50.0	50.0	ug/L	U1.0	52.3	57.8	105.	116.	10	30	60-135
1,1-Dichloroethene	50.0	50.0	ug/L	UM0.50	62.1	74.8	124.	150.*	18	30	70-130
Methylene Chloride	50.0	50.0	ug/L	U2.5	57.8	68.7	116.	137.	17	30	55-140
Acetone	50.0	50.0	ug/L	UM2.5	64.9	72.1	130.	144.*	10	30	40-140
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U0.50	56.6	67.4	113.	135.	17	30	60-140
Methyl tert-butyl Ether	100.	100.	ug/L	UM0.50	123.	133.	123.	133.*	8	30	65-125
1,1-Dichloroethane	50.0	50.0	ug/L	UM0.50	62.2	73.6	124.	147.*	17	30	70-135
cis-1,2-Dichloroethene	50.0	50.0	ug/L	UM0.50	55.6	67.6	111.	135.*	19	30	70-125
Chloroform	50.0	50.0	ug/L	UM0.50	59.1	69.0	118.	138.*	15	30	65-135
Carbon Tetrachloride	50.0	50.0	ug/L	U0.50	57.3	67.6	115.	135.	16	30	65-140
1,1,1-Trichloroethane	50.0	50.0	ug/L	UM0.50	61.0	72.0	122.	144.*	16	30	65-130
Benzene	50.0	50.0	ug/L	UM0.50	55.5	65.8	111.	132.*	17	30	80-120
1,2-Dichloroethane	50.0	50.0	ug/L	UM0.50	57.3	67.6	115.	135.*	16	30	70-130
Trichloroethene	50.0	50.0	ug/L	UM0.50	55.5	67.5	111.	135.*	20	30	70-125
Toluene	50.0	50.0	ug/L	UM0.50	55.0	63.9	110.	128.*	15	30	75-120
1,1,2-Trichloroethane	50.0	50.0	ug/L	UM0.50	54.0	63.9	108.	128.*	17	30	75-125
Chlorobenzene	50.0	50.0	ug/L	UM0.50	55.6	65.3	111.	131.*	16	30	80-120
Ethylbenzene	50.0	50.0	ug/L	U0.50	51.6	60.8	103.	122.	16	30	75-125
m+p-Xylenes	100.	100.	ug/L	UM1.0	113.	133.	113.	133.*	16	30	75-130
o-Xylene	50.0	50.0	ug/L	UM0.50	58.1	68.3	116.	137.*	16	30	80-120
Styrene	50.0	50.0	ug/L	U0.50	54.9	64.9	110.	130.	17	30	65-135
Isopropylbenzene	50.0	50.0	ug/L	UM0.50	57.1	69.4	114.	139.*	19	30	75-125
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	UM0.50	58.6	65.2	117.	130.*	11	30	65-130
1,3-Dichlorobenzene	50.0	50.0	ug/L	UM0.50	55.9	66.4	112.	133.*	17	30	75-125
1,4-Dichlorobenzene	50.0	50.0	ug/L	U0.50	50.8	60.6	102.	121.	18	30	75-125
1,2-Dichlorobenzene	50.0	50.0	ug/L	UM0.50	56.9	67.9	114.	136.*	18	30	70-120
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U0.50	50.0	56.9	100.	114.	13	30	65-135
Xylenes (Total)	150.	150.	ug/L	UM1.5	171.	202.	114.	135.*	17	30	89-116
Methylcyclohexane	50.0	50.0	ug/L	U0.50	59.9	58.5	120.	117.	2	30	73-125
2-Hexanone	50.0	50.0	ug/L	U2.5	54.8	59.5	110.	119.	8	30	55-130
Vinyl Chloride	50.0	50.0	ug/L	UM1.0	66.2	77.5	132.	155.*	16	30	50-145
Tetrachloroethene	50.0	50.0	ug/L	U0.50	45.1	54.4	90.2	109.	19	30	45-150

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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MS/MSD Recovery Report

MS ID: WG145321-7
MSD ID: WG145321-8
Sample ID: SH4521-14
Client ID: FTA-SW-03-061914
Project:
SDG: WE53-7
MS File ID: C7889.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321
Report Date: 15-JUL-14
MSD File ID: C7890.D

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

P-Bromofluorobenzene		102.	104.	75-120
Toluene-d8		95.5	97.2	85-120
1,2-Dichloroethane-d4		109.	108.	70-120
Dibromofluoromethane		96.6	97.2	85-115

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7889.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7889.D
Lab Smp Id: WG145321-7 Client Smp ID: FTA-SW-03-061914MS
Inj Date : 24-JUN-2014 18:33 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-7,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-14
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 21 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.004	2.000	(0.249)	352637	78.1355	78.1(R)	
2 Chloromethane	50	2.247	2.236	(0.279)	471196	63.7281	63.7(R)	
3 Vinyl chloride	62	2.340	2.343	(0.290)	416103	66.2558	66.2	
4 Bromomethane	94	2.747	2.744	(0.341)	282216	62.4735	62.5	
5 Chloroethane	64	2.897	2.894	(0.360)	143485	52.2918	52.3	
6 Trichlorofluoromethane	101	3.069	3.080	(0.381)	696517	72.2414	72.2	
7 Diethyl Ether	59	3.512	3.509	(0.436)	249737	66.4916	66.5(R)	
8 Tertiary-butyl alcohol	59	5.364	5.361	(0.666)	89259	303.653	304	
9 1,1-Dichloroethene	96	3.770	3.773	(0.468)	302641	62.1445	62.1	
10 Carbon Disulfide	76	3.805	3.809	(0.472)	971313	66.6249	66.6	
11 Freon-113	151	3.834	3.838	(0.476)	197330	50.7941	50.8	
12 Iodomethane	142	3.977	3.981	(0.493)	392169	60.3275	60.3	
13 Acrolein	56	4.292	4.288	(0.532)	253088	301.031	301	
14 Methylene Chloride	84	4.678	4.681	(0.580)	342189	57.8287	57.8	
15 Acetone	43	4.778	4.774	(0.593)	97626	64.9329	64.9	
16 Isobutyl Alcohol	43	8.274	8.271	(1.027)	223333	1458.43	1460	
17 trans-1,2-Dichloroethene	96	4.949	4.946	(0.614)	327535	56.5702	56.6	
18 Allyl Chloride	41	4.499	4.502	(0.558)	499231	61.9163	61.9(R)	
19 Methyl tert-butyl ether	73	5.157	5.153	(0.640)	1335526	122.688	123	
20 Acetonitrile	39	5.564	5.568	(0.690)	98518	653.349	653(R)	
21 Di-isopropyl ether	45	5.807	5.811	(0.721)	901817	59.8781	59.9	
22 Chloroprene	53	5.936	5.940	(0.737)	478330	61.7538	61.8	
23 Propionitrile	54	7.988	7.985	(0.991)	480558	739.606	740(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7889.D
Report Date: 15-Jul-2014 12:24

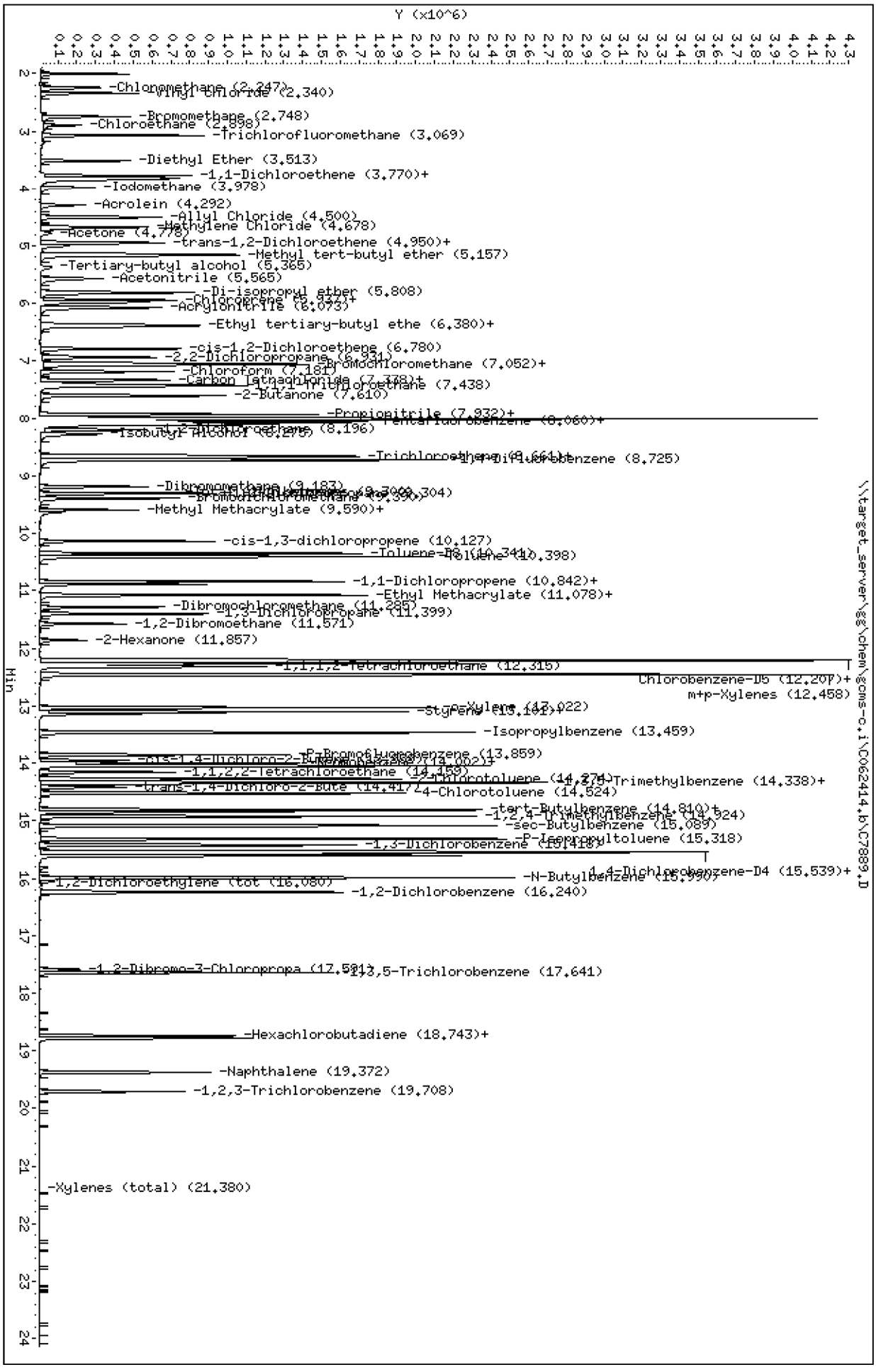
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	8.010	8.013	(0.994)	1910259	725.278	725(R)	
	25	1,1-Dichloroethane	63	5.972	5.975	(0.741)	597953	62.1730	62.2	
	26	Acrylonitrile	52	6.065	6.068	(0.753)	497555	337.284	337(R)	
	27	Ethyl tertiary-butyl ether	59	6.372	6.376	(0.791)	728719	57.7026	57.7	
	28	Vinyl Acetate	43	6.394	6.397	(0.733)	675460	56.5232	56.5	
	29	cis-1,2-Dichloroethene	96	6.780	6.783	(0.841)	343088	55.5764	55.6	
M	30	1,2-Dichloroethylene (total)	96				670623	112.147	112	
	31	Methyl Methacrylate	41	9.590	9.586	(1.099)	237312	51.7443	51.7	
	32	2,2-Dichloropropane	77	6.930	6.934	(0.860)	417876	55.8897	55.9	
	33	Bromochloromethane	128	7.059	7.062	(0.876)	165567	52.7756	52.8	
	34	Chloroform	83	7.180	7.177	(0.891)	583982	59.1450	59.1	
	35	Carbon Tetrachloride	117	7.338	7.341	(0.841)	473262	57.3050	57.3	
	36	Tetrahydrofuran	42	7.388	7.384	(0.917)	70595	60.8656	60.9	
$	37	Dibromofluoromethane	113	7.423	7.427	(0.921)	291309	48.3100	48.3	
	38	1,1,1-Trichloroethane	97	7.438	7.441	(0.923)	537441	61.0066	61.0	
	39	1,1-Dichloropropene	75	10.884	10.888	(1.247)	420693	56.0304	56.0	
	40	2-Butanone	43	7.609	7.606	(0.944)	123977	66.9173	66.9	
	41	Benzene	78	7.931	7.935	(0.909)	1257358	55.4831	55.5	
*	42	Pentafluorobenzene	168	8.060	8.063	(1.000)	1061174	50.0000		
	43	Cyclohexane	56	7.044	7.048	(0.874)	537834	65.5669	65.6	
	44	Ethyl Methacrylate	69	11.077	11.081	(1.270)	352315	50.5606	50.6	
$	45	1,2-Dichloroethane-D4	65	8.110	8.113	(1.006)	333635	54.3948	54.4	
	46	Tertiary-amyl methyl ether	73	8.103	8.099	(1.005)	593805	54.9401	54.9	
	47	1,2-Dichloroethane	62	8.196	8.199	(0.939)	427980	57.3005	57.3	
	48	Trichloroethene	95	8.668	8.670	(0.993)	342812	55.4845	55.5	
*	49	1,4-Difluorobenzene	114	8.725	8.721	(1.000)	1661127	50.0000		
	50	Dibromomethane	93	9.182	9.186	(1.052)	196158	50.3165	50.3	
	51	1,2-Dichloropropane	63	9.304	9.307	(1.066)	315733	57.6767	57.7	
	52	Bromodichloromethane	83	9.390	9.386	(1.076)	449814	57.9613	58.0	
	53	cis-1,3-dichloropropene	75	10.126	10.130	(1.161)	467496	53.3853	53.4	
	54	1,4-Dioxane	88	9.633	9.629	(1.104)	76349	1060.58	1060	
$	55	Toluene-D8	98	10.341	10.344	(1.185)	992195	47.7679	47.8	
	57	Toluene	92	10.398	10.401	(1.192)	817890	54.9716	55.0	
	58	4-methyl-2-pentanone	43	10.848	10.845	(1.243)	249624	61.7120	61.7	
	59	Tetrachloroethene	164	10.841	10.845	(0.888)	298746	45.0852	45.1	
	60	trans-1,3-Dichloropropene	75	10.884	10.888	(1.247)	420693	56.0304	56.0	
	61	1,1,2-Trichloroethane	83	11.077	11.073	(1.270)	243722	54.0286	54.0	
	62	Dibromochloromethane	129	11.285	11.288	(0.924)	340921	51.5955	51.6	
	63	1,3-Dichloropropane	76	11.399	11.402	(0.934)	505441	55.4398	55.4	
	64	1,2-Dibromoethane	107	11.571	11.574	(1.326)	301040	51.6225	51.6	
	65	2-Hexanone	43	11.857	11.860	(0.971)	169259	54.8374	54.8	
*	66	Chlorobenzene-D5	117	12.207	12.210	(1.000)	1686204	50.0000		
	67	Chlorobenzene	112	12.228	12.232	(1.002)	950420	55.5528	55.6	
	152	1-Chlorohexane	91	12.200	12.203	(0.999)	527668	51.9051	51.9	
	68	Ethylbenzene	106	12.264	12.268	(1.005)	515922	51.5932	51.6	
	69	1,1,1,2-Tetrachloroethane	131	12.314	12.318	(1.009)	346802	50.8617	50.9	
M	70	Xylenes (total)	106				1889166	170.977	171	
	71	m+p-Xylenes	106	12.457	12.453	(1.020)	1275443	112.847	113	
	72	o-Xylene	106	13.022	13.025	(1.067)	613723	58.1307	58.1	
	73	Styrene	104	13.101	13.097	(1.073)	992543	54.8604	54.9	
	74	Bromoform	173	13.136	13.140	(1.076)	236966	50.7821	50.8	
	75	Isopropylbenzene	105	13.458	13.462	(0.866)	1619873	57.1333	57.1	
$	76	P-Bromofluorobenzene	95	13.859	13.855	(1.588)	452828	50.8562	50.8	
	77	cis-1,4-Dichloro-2-Butene	53	13.959	13.962	(0.898)	110532	53.8304	53.8	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7889.D
Report Date: 15-Jul-2014 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.416	14.420	(0.928)	105503	55.2343	55.2	
79	Bromobenzene	156	14.009	14.005	(0.902)	432686	50.2756	50.3	
80	N-Propylbenzene	91	14.044	14.048	(0.904)	1997483	62.3638	62.4	
81	1,1,2,2-Tetrachloroethane	83	14.152	14.155	(0.911)	407256	58.5873	58.6	
82	1,3,5-Trimethylbenzene	105	14.338	14.341	(0.923)	1364168	51.7476	51.7	
83	2-Chlorotoluene	91	14.273	14.277	(0.919)	1145224	61.0469	61.0	
84	1,2,3-Trichloropropane	75	14.352	14.355	(0.924)	327849	61.0149	61.0	
85	4-Chlorotoluene	91	14.524	14.520	(0.935)	1211217	64.5502	64.6	
86	tert-Butylbenzene	119	14.810	14.813	(0.953)	1470946	60.8345	60.8	
87	Pentachloroethane	117	14.845	14.849	(0.955)	316017	55.1532	55.2	
88	1,2,4-Trimethylbenzene	105	14.924	14.927	(0.960)	1354050	52.6339	52.6	
89	P-Isopropyltoluene	119	15.317	15.313	(0.986)	1581215	57.2491	57.2	
90	1,3-Dichlorobenzene	146	15.424	15.421	(0.993)	824711	55.9012	55.9	
* 91	1,4-Dichlorobenzene-D4	152	15.539	15.542	(1.000)	981935	50.0000		
92	1,4-Dichlorobenzene	146	15.560	15.564	(1.001)	843099	50.8282	50.8	
93	N-Butylbenzene	91	15.989	15.993	(1.029)	1508615	58.1766	58.2	
94	sec-Butylbenzene	105	15.088	15.092	(0.971)	1893449	60.5048	60.5	
95	1,2-Dichlorobenzene	146	16.240	16.242	(1.045)	751678	56.9104	56.9	
96	1,2-Dibromo-3-Chloropropane	75	17.591	17.594	(1.132)	57588	57.0010	57.0	
97	1,3,5-Trichlorobenzene	180	17.641	17.644	(1.135)	561823	46.6337	46.6	
98	Hexachlorobutadiene	225	18.742	18.746	(1.206)	219920	45.6167	45.6	
99	1,2,4-Trichlorobenzene	180	18.785	18.788	(1.209)	404867	50.0303	50.0	
100	1,2,3-Trimethylbenzene	105	15.603	15.607	(1.004)	1361378	55.5946	55.6	
101	Naphthalene	128	19.371	19.375	(1.247)	780762	59.8440	59.8	
102	1,2,3-Trichlorobenzene	180	19.707	19.711	(1.268)	276556	63.7610	63.8	
103	Methyl Acetate	43	5.000	4.996	(0.620)	226564	66.8604	66.9(R)	
104	Methylcyclohexane	83	8.653	8.650	(1.074)	573260	59.9298	59.9	
M 153	Total Alkylbenzenes	100				11169926	403.510	404	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7889.D
Date : 24-JUN-2014 18:33
Client ID: FTA-SW-03-061914HS
Sample Info: WG145321-7,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
-Chloromethane (2.247)
-Vinyl Chloride (2.340)
-Bromomethane (2.748)
-Chloroethane (2.898)
-Trichlorofluoromethane (3.069)
-Diethyl Ether (3.513)
-1,1-Dichloroethene (3.770)+
-Iodomethane (3.978)
-Acrolein (4.292)
-Allyl Chloride (4.500)
-Methylene Chloride (4.678)
-Acetone (4.778)
-trans-1,2-Dichloroethene (4.950)+
-Methyl tert-butyl ether (5.157)
-Tertiary-butyl alcohol (5.365)
-Acetonitrile (5.565)
-Di-isopropyl ether (5.808)
-Chloroprene (6.022)+
-Acrylonitrile (6.073)
-Ethyl tertiary-butyl ethe (6.380)+
-cis-1,2-Dichloroethene (6.780)
-2,2-Dichloropropane (6.934)
-Bromochloromethane (7.052)+
-Chloroform (7.181)
-Carbon Tetrachloride (7.378)+
-1,1,1-Trichloroethane (7.438)
-2-Butanone (7.610)
-Propionitrile (7.832)+
-Pentafluorobenzene (8.060)+
-1,2-Dichloroethane (8.196)
-Isobutyl Alcohol (8.275)
-Trichloroethene (8.661)
-1,4-Difluorobenzene (8.725)
-Dibromomethane (9.183)
-Bromodichloromethane (9.390)
-Methyl Methacrylate (9.590)+
-cis-1,3-dichloropropene (10.127)
-Toluene-D8 (10.341)
-Toluene (10.398)
-1,1-Dichloropropene (10.842)+
-Ethyl Methacrylate (11.078)+
-Dibromochloromethane (11.286)
-1,3-Dichloropropane (11.399)
-1,2-Dibromoethane (11.571)
-2-Hexanone (11.857)
-1,1,1,2-Tetrachloroethane (12.315)
Chlorobenzene-D5 (12.207)+
m+p-Xylenes (12.458)
-Styrene (13.142)+
-o-Xylene (13.022)
-Isopropylbenzene (13.459)
-P-Bromofluorobenzene (13.859)
-cis-1,4-Dichloro-2-Butene (14.002)+
-1,1,2,2-Tetrachloroethane (14.159)
-2-Chlorotoluene (14.274)
-1,2,3-Trimethylbenzene (14.338)+
-trans-1,4-Dichloro-2-Bute (14.417)+
-4-Chlorotoluene (14.524)
-tert-Butylbenzene (14.810)+
-1,2,4-Trimethylbenzene (14.924)
-sec-Butylbenzene (15.089)
-P-Isopropyltoluene (15.318)
-1,3-Dichlorobenzene (15.418)
-1,4-Dichlorobenzene-D4 (15.539)+
-N-Butylbenzene (15.990)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.240)
-1,2-Dibromo-3-Chloropropa (17.581)
-1,3,5-Trichlorobenzene (17.641)
-Hexachlorobutadiene (18.743)+
-Naphthalene (19.372)
-1,2,3-Trichlorobenzene (19.708)
-Xylenes (total) (21.380)
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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Lab Smp Id: WG145321-8 Client Smp ID: FTA-SW-03-061914MSD
Inj Date : 24-JUN-2014 19:05 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-8,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-14
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 22 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.002	2.000	(0.248)	417068	91.2938	91.3(R)	
2 Chloromethane	50	2.245	2.236	(0.278)	553742	73.9862	74.0(R)	
3 Vinyl chloride	62	2.345	2.343	(0.291)	492993	77.5493	77.5(R)	
4 Bromomethane	94	2.746	2.744	(0.340)	349674	76.4700	76.5(R)	
5 Chloroethane	64	2.896	2.894	(0.359)	160412	57.7534	57.8	
6 Trichlorofluoromethane	101	3.075	3.080	(0.381)	805819	82.5668	82.6(R)	
7 Diethyl Ether	59	3.511	3.509	(0.435)	255976	67.3281	67.3(R)	
8 Tertiary-butyl alcohol	59	5.370	5.361	(0.666)	76512	261.285	261	
9 1,1-Dichloroethene	96	3.775	3.773	(0.468)	368768	74.8069	74.8(R)	
10 Carbon Disulfide	76	3.811	3.809	(0.473)	1152647	78.1065	78.1	
11 Freon-113	151	3.840	3.838	(0.476)	195941	49.8264	49.8	
12 Iodomethane	142	3.983	3.981	(0.494)	483251	73.4393	73.4	
13 Acrolein	56	4.290	4.288	(0.532)	239327	281.220	281	
14 Methylene Chloride	84	4.676	4.681	(0.580)	410557	68.7239	68.7	
15 Acetone	43	4.784	4.774	(0.593)	109675	72.0644	72.1(R)	
16 Isobutyl Alcohol	43	8.273	8.271	(1.026)	189863	1246.45	1250	
17 trans-1,2-Dichloroethene	96	4.948	4.946	(0.614)	395254	67.4404	67.4	
18 Allyl Chloride	41	4.498	4.502	(0.558)	500398	61.3102	61.3(R)	
19 Methyl tert-butyl ether	73	5.155	5.153	(0.639)	1468902	133.308	133(R)	
20 Acetonitrile	39	5.563	5.568	(0.690)	91705	600.809	601	
21 Di-isopropyl ether	45	5.806	5.811	(0.720)	958337	62.8611	62.9(R)	
22 Chloroprene	53	5.935	5.940	(0.736)	483108	61.6160	61.6	
23 Propionitrile	54	7.987	7.985	(0.990)	454885	691.624	692(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Report Date: 15-Jul-2014 12:24

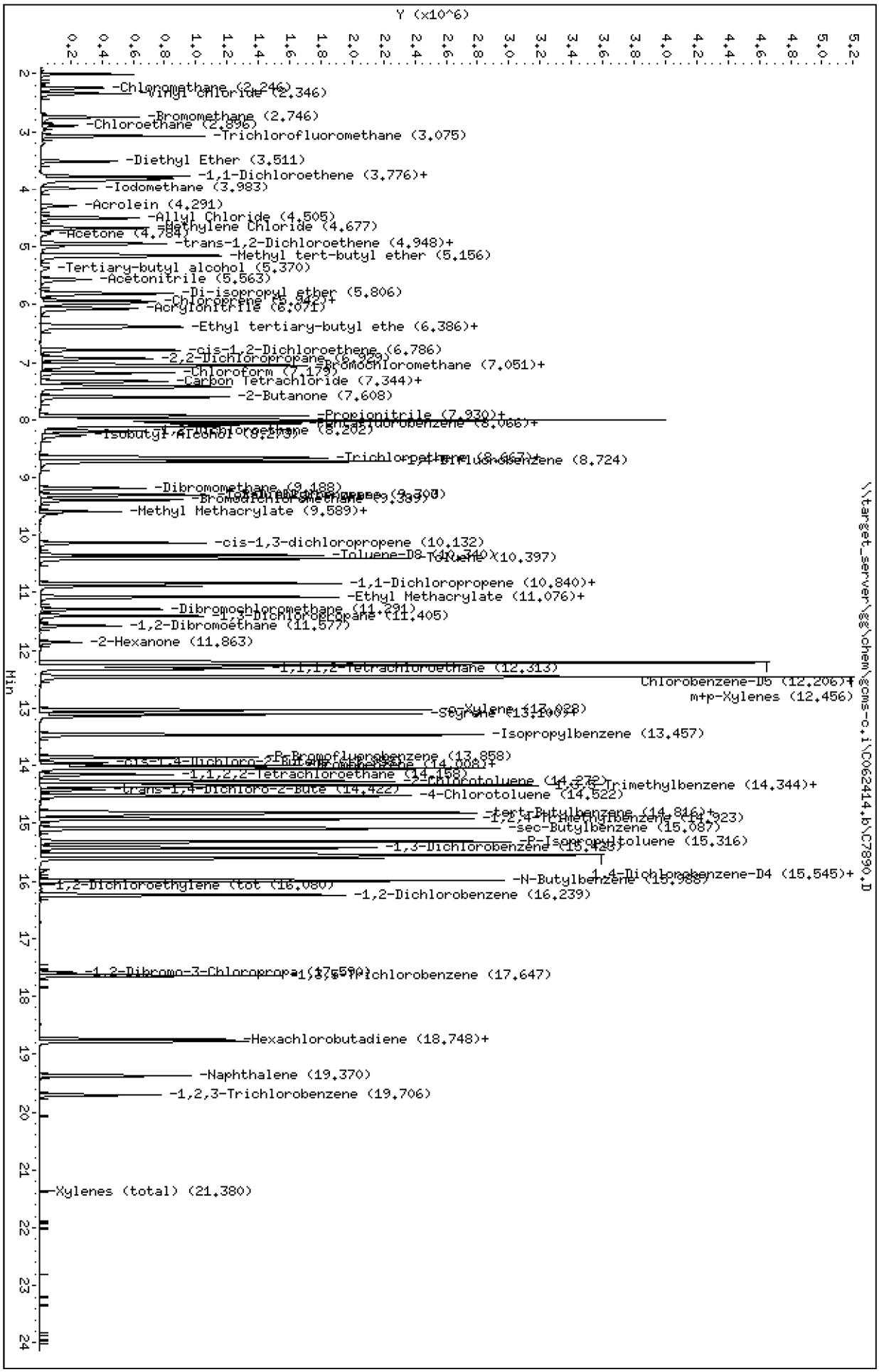
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	8.008	8.013	(0.993)	1861776	698.318	698(R)	
	25 1,1-Dichloroethane	63	5.978	5.975	(0.741)	716267	73.5738	73.6(R)	
	26 Acrylonitrile	52	6.071	6.068	(0.753)	472360	316.331	316(R)	
	27 Ethyl tertiary-butyl ether	59	6.371	6.376	(0.790)	761109	59.5382	59.5(R)	
	28 Vinyl Acetate	43	6.392	6.397	(0.733)	783775	65.1820	65.2(R)	
	29 cis-1,2-Dichloroethene	96	6.786	6.783	(0.841)	422602	67.6286	67.6(R)	
M	30 1,2-Dichloroethylene (total)	96				817856	135.069	135(R)	
	31 Methyl Methacrylate	41	9.588	9.586	(1.099)	234233	51.0030	51.0	
	32 2,2-Dichloropropane	77	6.929	6.934	(0.859)	497196	65.6939	65.7	
	33 Bromochloromethane	128	7.057	7.062	(0.875)	203093	63.9541	64.0	
	34 Chloroform	83	7.179	7.177	(0.890)	689469	68.9838	69.0(R)	
	35 Carbon Tetrachloride	117	7.343	7.341	(0.842)	559734	67.6233	67.6	
	36 Tetrahydrofuran	42	7.386	7.384	(0.916)	78981	67.2720	67.3(R)	
$	37 Dibromofluoromethane	113	7.422	7.427	(0.920)	296608	48.5936	48.6	
	38 1,1,1-Trichloroethane	97	7.436	7.441	(0.922)	642582	72.0589	72.0(R)	
	39 1,1-Dichloropropene	75	10.890	10.888	(1.248)	507827	67.4835	67.5(R)	
	40 2-Butanone	43	7.608	7.606	(0.943)	139869	74.5818	74.6	
	41 Benzene	78	7.930	7.935	(0.909)	1495726	65.8532	65.8(R)	
*	42 Pentafluorobenzene	168	8.065	8.063	(1.000)	1074170	50.0000		
	43 Cyclohexane	56	7.043	7.048	(0.873)	642222	77.4470	77.4(R)	
	44 Ethyl Methacrylate	69	11.076	11.081	(1.270)	355893	50.9464	50.9	
$	45 1,2-Dichloroethane-D4	65	8.108	8.113	(1.005)	335950	54.1096	54.1	
	46 Tertiary-amyl methyl ether	73	8.101	8.099	(1.004)	613339	56.0609	56.1	
	47 1,2-Dichloroethane	62	8.201	8.199	(0.940)	506200	67.6208	67.6(R)	
	48 Trichloroethene	95	8.673	8.670	(0.994)	417850	67.4776	67.5(R)	
*	49 1,4-Difluorobenzene	114	8.723	8.721	(1.000)	1664867	50.0000		
	50 Dibromomethane	93	9.181	9.186	(1.052)	239089	61.1910	61.2	
	51 1,2-Dichloropropane	63	9.302	9.307	(1.066)	370654	67.5573	67.6(R)	
	52 Bromodichloromethane	83	9.388	9.386	(1.076)	537421	69.0944	69.1(R)	
	53 cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	561276	63.9505	64.0	
	54 1,4-Dioxane	88	9.631	9.629	(1.104)	71118	987.418	987	
$	55 Toluene-D8	98	10.339	10.344	(1.185)	1011291	48.5778	48.6	
	57 Toluene	92	10.396	10.401	(1.192)	953564	63.9465	63.9(R)	
	58 4-methyl-2-pentanone	43	10.847	10.845	(1.243)	275557	69.0428	69.0(R)	
	59 Tetrachloroethene	164	10.840	10.845	(0.888)	367276	54.3643	54.4	
	60 trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	507827	67.4835	67.5	
	61 1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	288861	63.8912	63.9(R)	
	62 Dibromochloromethane	129	11.290	11.288	(0.924)	411988	61.1550	61.2	
	63 1,3-Dichloropropane	76	11.405	11.402	(0.934)	598405	64.3778	64.4(R)	
	64 1,2-Dibromoethane	107	11.569	11.574	(1.326)	359744	61.5506	61.6(R)	
	65 2-Hexanone	43	11.862	11.860	(0.971)	185815	59.4801	59.5	
*	66 Chlorobenzene-D5	117	12.213	12.210	(1.000)	1719178	50.0000		
	67 Chlorobenzene	112	12.234	12.232	(1.002)	1139776	65.3430	65.3(R)	
	152 1-Chlorohexane	91	12.205	12.203	(0.999)	644472	62.1788	62.2(R)	
	68 Ethylbenzene	106	12.270	12.268	(1.005)	619768	60.7892	60.8	
	69 1,1,1,2-Tetrachloroethane	131	12.313	12.318	(1.008)	415345	59.7458	59.7	
M	70 Xylenes (total)	106				2271302	201.603	202(R)	
	71 m+p-Xylenes	106	12.456	12.453	(1.020)	1536123	133.304	133(R)	
	72 o-Xylene	106	13.028	13.025	(1.067)	735179	68.2992	68.3(R)	
	73 Styrene	104	13.099	13.097	(1.073)	1196560	64.8685	64.9	
	74 Bromoform	173	13.135	13.140	(1.076)	279328	58.7122	58.7	
	75 Isopropylbenzene	105	13.457	13.462	(0.866)	1929028	69.4088	69.4(R)	
$	76 P-Bromofluorobenzene	95	13.857	13.855	(1.588)	461924	51.7612	51.8	
	77 cis-1,4-Dichloro-2-Butene	53	13.957	13.962	(0.898)	101736	49.0406	49.0	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Report Date: 15-Jul-2014 12:24

			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	78	trans-1,4-Dichloro-2-Butene	53	14.422	14.420	(0.928)	97473	50.4627	50.5	
	79	Bromobenzene	156	14.007	14.005	(0.902)	523574	59.9239	59.9	
	80	N-Propylbenzene	91	14.050	14.048	(0.904)	2370700	76.4796	76.5(R)	
	81	1,1,2,2-Tetrachloroethane	83	14.157	14.155	(0.911)	460132	65.2013	65.2(R)	
	82	1,3,5-Trimethylbenzene	105	14.336	14.341	(0.923)	1626522	62.7593	62.8	
	83	2-Chlorotoluene	91	14.272	14.277	(0.919)	1366510	71.7503	71.8(R)	
	84	1,2,3-Trichloropropane	75	14.350	14.355	(0.924)	374983	68.7403	68.7(R)	
	85	4-Chlorotoluene	91	14.522	14.520	(0.935)	1421361	74.6136	74.6(R)	
	86	tert-Butylbenzene	119	14.815	14.813	(0.954)	1710902	69.6973	69.7(R)	
	87	Pentachloroethane	117	14.844	14.849	(0.955)	334174	57.4474	57.4	
	88	1,2,4-Trimethylbenzene	105	14.922	14.927	(0.960)	1605810	63.2780	63.3	
	89	P-Isopropyltoluene	119	15.316	15.313	(0.986)	1891635	69.9893	70.0(R)	
	90	1,3-Dichlorobenzene	146	15.423	15.421	(0.993)	994344	66.3886	66.4(R)	
*	91	1,4-Dichlorobenzene-D4	152	15.537	15.542	(1.000)	996885	50.0000		
	92	1,4-Dichlorobenzene	146	15.566	15.564	(1.002)	1020431	60.5964	60.6	
	93	N-Butylbenzene	91	15.988	15.993	(1.029)	1797002	71.0251	71.0(R)	
	94	sec-Butylbenzene	105	15.087	15.092	(0.971)	2262297	74.6202	74.6(R)	
	95	1,2-Dichlorobenzene	146	16.238	16.242	(1.045)	910016	67.8651	67.9(R)	
	96	1,2-Dibromo-3-Chloropropane	75	17.589	17.594	(1.132)	65612	63.6246	63.6	
	97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.136)	563860	46.1009	46.1	
	98	Hexachlorobutadiene	225	18.748	18.746	(1.207)	261594	53.4472	53.4	
	99	1,2,4-Trichlorobenzene	180	18.783	18.788	(1.209)	468632	56.8874	56.9	
	100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.005)	1367117	54.9918	55.0	
	101	Naphthalene	128	19.370	19.375	(1.247)	817876	61.7037	61.7	
	102	1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	272773	62.0117	62.0	
	103	Methyl Acetate	43	4.998	4.996	(0.620)	216335	63.0693	63.1	
	104	Methylcyclohexane	83	8.652	8.650	(1.073)	566330	58.4890	58.5	
M	153	Total Alkylbenzenes	100				13264868	487.849	488(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Date : 24-JUN-2014 19:05
Client ID: FTA-SW-03-061914HSD
Sample Info: WG145321-8,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C062414.b\C7890.D
Y (x10^6)
Min
-Chloromethane (2.246)
-Vinyl Chloride (2.346)
-Bromomethane (2.746)
-Chloroethane (2.896)
-Trichlorofluoromethane (3.075)
-Diethyl Ether (3.511)
-1,1-Dichloroethene (3.776)+
-Iodomethane (3.983)
-Acrolein (4.291)
-Allyl Chloride (4.505)
-Methylene Chloride (4.677)
-Acetone (4.784)
-trans-1,2-Dichloroethene (4.948)+
-Methyl tert-butyl ether (5.156)
-Tertiary-butyl alcohol (5.370)
-Acetonitrile (5.563)
-Di-isopropyl ether (5.806)
-Chloroprene (6.044)+
-Acrylonitrile (6.071)
-Ethyl tertiary-butyl ethe (6.386)+
-cis-1,2-Dichloroethene (6.786)
-2,2-Dichloropropane (6.929)
-Bromochloromethane (7.051)+
-Chloroform (7.179)
-Carbon Tetrachloride (7.344)+
-2-Butanone (7.608)
-Propionitrile (7.930)+
-Isobutyl Alcohol (8.202)
-Trichloroethene (8.667)+
-Dibromomethane (9.188)
-Methyl Methacrylate (9.589)+
-cis-1,3-dichloropropene (10.132)
-Toluene-D8 (10.340)
-Toluene (10.397)
-1,1-Dichloropropene (10.840)+
-Ethyl Methacrylate (11.076)+
-Dibromochloromethane (11.291)
-1,3-Dichloropropane (11.405)
-1,2-Dibromoethane (11.577)
-2-Hexanone (11.863)
-1,1,1,2-Tetrachloroethane (12.313)
Chlorobenzene-D5 (12.206)+
m+p-Xylenes (12.456)
-o-Xylene (13.028)
-Styrene (13.110)+
-Isopropylbenzene (13.457)
-Bromofluorobenzene (13.858)
-1,1,2,2-Tetrachloroethane (14.158)
-2-Chlorotoluene (14.272)
-1,2,4-Trimethylbenzene (14.344)+
-4-Chlorotoluene (14.522)
-tert-Butylbenzene (14.846)+
-1,2,4-Trimethylbenzene (14.923)
-sec-Butylbenzene (15.087)
-P-Isopropyltoluene (15.316)
-1,3-Dichlorobenzene (15.428)
1,4-Dichlorobenzene-D4 (15.545)+
-N-Butylbenzene (15.988)
1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.239)
-1,2,3-Trichlorobenzene (17.647)
-Hexachlorobutadiene (18.748)+
-Naphthalene (19.370)
-1,2,3-Trichlorobenzene (19.706)
-Xylenes (total) (21.380)

Logbooks and Supporting Documents

GCMS-C INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 06/09/14 10:43

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	RH	COMMENTS
50 ng BFB -10	CB859	1	-1	VOABFBAQ							Y	REC		
VSTD200C09A	C7524	1	1	C826A08							Y			W6144357-6
VSTD100C09A	25	1	2								Y			-5
VSTD050C09C	26	1	3								N			
VSTD020C09A	27	1	4								N			Curve
VSTD005C09A	28	1	5								Y			Okay
VSTD001C09A	29	1	6								Y			-2
VSTD050C09D	30	1	7								Y			-1
VSTD020C09B	31	1	8								Y			-4
LCSA -8	32	1	9								Y			-3
VBLKA	33	1	10								N			IND -7
VBLKB	34	1	11								N			
VBLKC -9	35	1	12								Y			hexa<PQL
SH3824-2RA B	36	1	13		X				X		Y		<2	
+ -4 B	37	1	14								Y		<2	
SU3857-1 A	38	1	15								Y		<2	ISS↑ no hits
-2 A	39	1	16								Y		<2	
-3 A	40	1	17								Y		<2	ISS↑ RA
-4DL A	41	100	18								N		<2	400uL→40mL overdilute
-6 A	42	1	19								Y		<2	ISS↑ no hits
-4DL2 A	43	10	20								Y		<2	4mL→40mL 21:55
Rinse	44	1	21								N		Z	4 run stc @ end
Rinse	45	1	22								N			
Rinse	46	1	23								N		Z	
Rinse	47	1	24								N			
														06/10/14 REC

STANDARD	CODE
BFB	V9381
CAL. STD.	V9389 V9391
LCS/MS MIX	V9387
EXTRAS MIX	V9392

STANDARD	CODE
IS MIX	V9384
SS MIX	V9385

Circle Methods:

(SW846 8260) OLM 04.2

SW846 8260 SIM OLC 03.2

SW846 8260 SIM EPA 624

(heated purge) EPA 524

Katahdin Analytical Services 1000339

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/23/14 8:04

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB852	1	-1	V04BFBAQ							Y	REC	—	
VSTD050C23A -4	C845	1	1	C826A08							Y			
LCSA WG145261-1	C846	1	2								Y			
VBLKA	47	1	3								N			
VBLKB	48	1	4								N			
VBLKC -2	49	1	5								Y			hexa 2 PQL
MeOHBLK -5	50	1	6								Y			hexa CPQL R 06/23/14 REC
SH4272-5DL A	51	1	7			X		X	X		Y			400uL→20mL (Trip Blank for DoD only)
SH4115-2 A	52	1	8		X						Y		L2	
SH4401-1 A	53	1	9								Y		L2	
SH4115-1 A	54	1	10								Y		L2	
SH4401-2 A	55	1	11								Y		L2	
-4 A	56	1	12								Y		L2	
-6 A	57	1	13								Y		L2	
-8 A	58	1	14								Y		L2	
-10 A	59	1	15								Y		L2	
-12 A	60	1	16								Y		L2	
-14 A	61	1	17								Y		L2	
-16 A	62	1	18								Y		L2	
-18 A	63	1	19								Y		L2	
-20 A	64	1	20								Y		L2	18:33
Rinse	65	1	21								N		Z	
Rinse	66	1	22								N			
Rinse	67	1	23								N		Z	
Rinse	68	1	24								N			
														06/24/14 REC

STANDARD	CODE
BFB	V9381
CAL. STD.	V9420 V9425
LCS/MS MIX	V9411
EXTRAS MIX	V9417

STANDARD	CODE
IS MIX	V9422
SS MIX	V9385

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-C INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 6/24/14 7:30

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	MCP	Y/N	ANALYST	PH	COMMENTS
50 ng BFB -3	CB853	1	-1	VOADFBAQ							Y	REC	7	
VSTD050C24A -4	C7869	1	1	C826A08							Y			
LCSA W6145321-1	70	1	2								Y			
VBLKA	71	1	3								N			
VBLKB	72	1	4								N			
VBLKC -2	73	1	5								Y		L	hexaCPAL
SH4521-1 A	74	1	6		X				X		Y		22	
-24 A	75	1	7								Y		<2	
-2 A	76	1	8								Y		<2	
-4 A	77	1	9								Y		<2	ISS↑ no hits > PQL
-6 A	78	1	10								Y		<2	ISS↑ no hits
-8 A	79	1	11								~~Y~~ 6/24/14 REC		<2	
-10 A	80	1	12								Y		<2	
-12 A	81	1	13								Y		<2	
-14 A	82	1	14								Y		<2	ISS↑ no hits
-16 A	83	1	15								Y		<2	ISS↑ RA
-18 A	84	1	16								Y		<2	ISS↑ RA
-20 A	85	1	17								Y		<2	ISS↑ RA
-22 A	86	1	18								Y		<2	ISS↑ RA
-8MS -5 B	87	1	19								Y		<2	
-8MSD -6 C	88	1	20								Y		<2	
-14MS -7 B	89	1	21								Y		<2	
-14MSD -8 C	90	1	22								Y		<2	19:05
Rinse	91	1	23								N		Z	
Rinse	92	1	24								N		Z	
Rinse	93	1	25								N		Z	

STANDARD	CODE
BFB	V9381
CAL. STD.	V9420 V9405
LCS/MS MIX	V9411
EXTRAS MIX	V9417

STANDARD	CODE
IS MIX	V9422
SS MIX	V9385

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

GCMS-D INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 6-11-14 1338

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD: 5030	5035	3541	Criteria: Key	Dep	Surr	Y/N	ANALYST	PH	COMMENTS
50ngBFB-10	D8850	1	-1	VoaDFbAQ							Y	DTP		
VSTD020 -3	D8861	1	1	0826948							Y			
005 -2	D8862	1	2								Y			
001 -1	D8863	1	3								Y			
~~200~~ 001B	D8864	1	4								N			
~~100~~ 200 -6	D8865	1	5								Y			
~~50~~ 100 -5	D8866	1	6								Y			
50 -4	D8867	1	7								Y			curve ok
LCS WG144515-8	D8868(a)	1	8								Y			
VBLKA	D8869	1	9								N			(a) -7 ind ✓
B	D8870	1	10								N			
C	D8871	1	11								N			
D -9	D8872	1	12								Y			
SH4056-8 A	D8873	1	13		X				X		Y		<2	
-1 A	D8874	1	14								Y		<2	
-4 A	D8875	1	15								Y		<2	
-5 A	D8876	1	16								Y		<2	
-6 A	D8877	1	17								Y		<2	
-7 A	D8878	1	18								Y		<2	
-9 A	D8879	1	19								Y		<2	
-10 A	D8880	1	20								Y		<2	
SH3969-2DL B	D8881	100	21								Y		<2	400uL→40mL
-2DL2 B	D8882	10	22								Y		<2	128✓ 4mL→40mL
Rinse	D8883	1	23								N			
Rinse	D8884	1	24								N		Z	

STANDARD	CODE
BFB	V9391
CAL. STD.	V9400 V9402
LCS/MS MIX	V9396
EXTRAS MIX	V9392

STANDARD	CODE
IS MIX	V9393
SS MIX	V9394

Circle Methods:

SW846 8260 (circled)
~~SW846 8260 SIM~~
SW846 8260 SIM (heated purge)
OLM 04.2
OLC 03.2
EPA 624
EPA 524

VOA-012 - Revision 1 - 06/02/2010

QAMS538

0000087

Katahdin Analytical Services 1000342

KATAHDIN ANALYTICAL SERVICES

GCMS-D INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 062814 808

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50ngBFB -3	0B368	-1	-1	V0a64640							Y	DJP		
VSTD050 -4	D9205	10 DF	1	D826a48							Y			
LCS WG145586-1	06	2 1	2								Y			
VBIKA	07	3 1	3								N			
B	08	4 1	4								N			
C -2	09	5 1	5											
SH4521-16RA B	10	6 1	6		X				X		Y		<2	
-18RA B	11	7 1	7								Y		<2	
-20RA B	12	8 1	8								Y		<2	
-22RA B	13	9 1	9								Y		<2	
SH4749-2 A	14	10 1	10								Y		<2	
-3 A	15	11 1	11								Y		<2	
-7DL A+B	16	12 1	12								Y		7	11mL→2mL decanted
SH4673-1 A	17	13 1	13					X			Y		<2	
-2 A	18	14 1	14					X			Y		7	
SH4749-4 A	19	15 1	15						X		Y		<2	decanted
-5 A	20	16 1	16								Y		<2	ISST no hits >PQL
-6 A+B	21	17 1	17								Y		<2	ISST decanted
-6MS B+C	22	18 1	18								Y		<2	decanted
-6MSD D+E	23	19 1	19								Y		<2	1843 decanted
Rinse	D9224	20 1	20								N			
Rinse	25										N			
Rinse	26										N			
														QJP 6/28/14

STANDARD	CODE
BFB	V9391
CAL. STD.	V9436, V9435
LCS/MS MIX	V9437
EXTRAS MIX	V9417

STANDARD	CODE
IS MIX	V9413
SS MIX	V9421

Circle Methods:

(SW846 8260)	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

QAMS549

0000006

Katahdin Analytical Services 1000343

SIM VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	DBF #	TOL #
FTA-GW-TB01-061714	SH4401-1		115.	105.
FTA-MW-5-061814	SH4401-10		123.	90.3
FTA-MW-203-061814	SH4401-12		109.	99.0
FTA-GW-DUP01-061814	SH4401-14		120.	92.1
FTA-MW-218-061814	SH4401-16		113.	93.8
FTA-MW-206-061814	SH4401-18		111.	101.
FTA-MW-9-061714	SH4401-2		117.	95.4
FTA-MW-14-061714	SH4401-20		117.	82.9
FTA-MW-10-061714	SH4401-4		120.	96.4
FTA-MW-11-061714	SH4401-6		119.	97.1
FTA-MW-12-061714	SH4401-8		123.	98.4
FTA-GW-TB02-061814	SH4521-1		120.	101.
FTA-SW-01-061914	SH4521-10		118.	105.
FTA-SW-02-061914	SH4521-12		114.	113.
FTA-SW-03-061914	SH4521-14		119.	96.8
FTA-SW-06-061914	SH4521-16		118.	104.
FTA-SW-07-061914	SH4521-18		116.	87.6
FTA-MW-208-061814	SH4521-2		119.	103.
FTA-SW-08-061914	SH4521-20		116.	104.
FTA-SW-DUP01-061914	SH4521-22		115.	98.5
FTA-MW-1-061814	SH4521-4		118.	102.
FTA-GW-DUP02-061814	SH4521-6		121.	100.
FTA-MW-210-061814	SH4521-8		108.	112.
Laboratory Control S	WG145589-1		100.	90.5
Method Blank Sample	WG145589-2		105.	96.8
Laboratory Control S	WG145683-1		99.3	94.6
Method Blank Sample	WG145683-2		103.	108.
Matrix Spike	WG145683-5		113.	91.2
Matrix Spike Duplica	WG145683-6		109.	89.1
Matrix Spike	WG145683-7		109.	88.2
Matrix Spike Duplica	WG145683-8		113.	89.5

QC Limits

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

TOL	TOLUENE-D8	70-130
DBF	DIBROMOFLUOROMETHANE	70-130

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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sales@katahdinlab.com

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : S0468.D
Instrument ID : GCMS-S
Heated Purge : No

SDG : WE53-7
Lab Sample ID : WG145589-2
Date Analyzed : 28-JUN-14
Time Analyzed : 09:04

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145589-1	S0467.D	06/28/14	08:22
FTA-MW-203-061814	SH4401-12	S0469.D	06/28/14	09:44
FTA-GW-DUP01-061814	SH4401-14	S0470.D	06/28/14	10:23
FTA-MW-218-061814	SH4401-16	S0471.D	06/28/14	11:02
FTA-MW-206-061814	SH4401-18	S0472.D	06/28/14	11:41
FTA-GW-TB01-061714	SH4401-1	S0473.D	06/28/14	12:20
FTA-MW-10-061714	SH4401-4	S0474.D	06/28/14	12:59
FTA-MW-11-061714	SH4401-6	S0475.D	06/28/14	13:38
FTA-MW-12-061714	SH4401-8	S0476.D	06/28/14	14:17
FTA-MW-5-061814	SH4401-10	S0477.D	06/28/14	14:56
FTA-MW-14-061714	SH4401-20	S0478.D	06/28/14	15:35
FTA-MW-9-061714	SH4401-2	S0479.D	06/28/14	16:14
FTA-GW-TB02-061814	SH4521-1	S0480.D	06/28/14	16:53
FTA-MW-208-061814	SH4521-2	S0481.D	06/28/14	17:33
FTA-MW-1-061814	SH4521-4	S0482.D	06/28/14	18:12
FTA-GW-DUP02-061814	SH4521-6	S0483.D	06/28/14	18:51

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : S0488.D
Instrument ID : GCMS-S
Heated Purge : No

SDG : WE53-7
Lab Sample ID : WG145683-2
Date Analyzed : 30-JUN-14
Time Analyzed : 10:05

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145683-1	S0487.D	06/30/14	09:26
FTA-MW-210-061814	SH4521-8	S0489.D	06/30/14	10:54
FTA-SW-01-061914	SH4521-10	S0490.D	06/30/14	11:33
FTA-SW-02-061914	SH4521-12	S0491.D	06/30/14	12:12
FTA-SW-03-061914	SH4521-14	S0492.D	06/30/14	12:51
FTA-SW-06-061914	SH4521-16	S0493.D	06/30/14	13:30
FTA-SW-07-061914	SH4521-18	S0494.D	06/30/14	14:08
FTA-SW-08-061914	SH4521-20	S0495.D	06/30/14	14:47
FTA-SW-DUP01-061914	SH4521-22	S0496.D	06/30/14	15:26
Matrix Spike	WG145683-5	S0497.D	06/30/14	16:05
Matrix Spike Duplica	WG145683-6	S0498.D	06/30/14	16:44
Matrix Spike	WG145683-7	S0499.D	06/30/14	17:23
Matrix Spike Duplica	WG145683-8	S0500.D	06/30/14	18:02

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : SB442.D
Instrument ID : GCMS-S

SDG : WE53-7
Date Analyzed : 27-JUN-14
Time Analyzed : 10:12
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.2		
75	30.0 - 60.0% of mass 95	48.4		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	8.0		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	73.2		
175	5.0 - 9.0% of mass 174	6.0	8.18	1
176	95.0 - 101.0% of mass 174	72.1	98.50	1
177	5.0 - 9.0% of mass 176	4.4	6.17	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG145721-4	S0452.D	06/27/14	10:40
Initial Calibration	WG145721-3	S0453.D	06/27/14	11:19
Initial Calibration	WG145721-2	S0455.D	06/27/14	12:36
Initial Calibration	WG145721-1	S0456.D	06/27/14	13:15
Initial Calibration	WG145721-6	S0457.D	06/27/14	13:54
Initial Calibration	WG145721-5	S0458.D	06/27/14	14:33

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : SB443.D
Instrument ID : GCMS-S

SDG : WE53-7
Date Analyzed : 28-JUN-14
Time Analyzed : 07:02
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	15.9		
75	30.0 - 60.0% of mass 95	44.5		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.3	0.38	1
174	Greater than 50.0% of mass 95	77.4		
175	5.0 - 9.0% of mass 174	5.7	7.32	1
176	95.0 - 101.0% of mass 174	77.5	100.06	1
177	5.0 - 9.0% of mass 176	4.8	6.24	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145589-4	S0466.D	06/28/14	07:33
Laboratory Control S	WG145589-1	S0467.D	06/28/14	08:22
Independent Source	WG145589-5	S0467A.D	06/28/14	08:22
Method Blank Sample	WG145589-2	S0468.D	06/28/14	09:04
FTA-MW-203-061814	SH4401-12	S0469.D	06/28/14	09:44
FTA-GW-DUP01-061814	SH4401-14	S0470.D	06/28/14	10:23
FTA-MW-218-061814	SH4401-16	S0471.D	06/28/14	11:02
FTA-MW-206-061814	SH4401-18	S0472.D	06/28/14	11:41
FTA-GW-TB01-061714	SH4401-1	S0473.D	06/28/14	12:20
FTA-MW-10-061714	SH4401-4	S0474.D	06/28/14	12:59
FTA-MW-11-061714	SH4401-6	S0475.D	06/28/14	13:38
FTA-MW-12-061714	SH4401-8	S0476.D	06/28/14	14:17
FTA-MW-5-061814	SH4401-10	S0477.D	06/28/14	14:56
FTA-MW-14-061714	SH4401-20	S0478.D	06/28/14	15:35
FTA-MW-9-061714	SH4401-2	S0479.D	06/28/14	16:14
FTA-GW-TB02-061814	SH4521-1	S0480.D	06/28/14	16:53
FTA-MW-208-061814	SH4521-2	S0481.D	06/28/14	17:33
FTA-MW-1-061814	SH4521-4	S0482.D	06/28/14	18:12
FTA-GW-DUP02-061814	SH4521-6	S0483.D	06/28/14	18:51

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : SB444.D
Instrument ID : GCMS-S

SDG : WE53-7
Date Analyzed : 30-JUN-14
Time Analyzed : 08:07
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	15.5		
75	30.0 - 60.0% of mass 95	41.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.2		
173	Less than 2.0% of mass 174	1.3	1.61	1
174	Greater than 50.0% of mass 95	80.5		
175	5.0 - 9.0% of mass 174	5.2	6.46	1
176	95.0 - 101.0% of mass 174	77.9	96.80	1
177	5.0 - 9.0% of mass 176	5.3	6.74	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145683-4	S0486.D	06/30/14	08:41
Laboratory Control S	WG145683-1	S0487.D	06/30/14	09:26
Method Blank Sample	WG145683-2	S0488.D	06/30/14	10:05
FTA-MW-210-061814	SH4521-8	S0489.D	06/30/14	10:54
FTA-SW-01-061914	SH4521-10	S0490.D	06/30/14	11:33
FTA-SW-02-061914	SH4521-12	S0491.D	06/30/14	12:12
FTA-SW-03-061914	SH4521-14	S0492.D	06/30/14	12:51
FTA-SW-06-061914	SH4521-16	S0493.D	06/30/14	13:30
FTA-SW-07-061914	SH4521-18	S0494.D	06/30/14	14:08
FTA-SW-08-061914	SH4521-20	S0495.D	06/30/14	14:47
FTA-SW-DUP01-061914	SH4521-22	S0496.D	06/30/14	15:26
Matrix Spike	WG145683-5	S0497.D	06/30/14	16:05
Matrix Spike Duplica	WG145683-6	S0498.D	06/30/14	16:44
Matrix Spike	WG145683-7	S0499.D	06/30/14	17:23
Matrix Spike Duplica	WG145683-8	S0500.D	06/30/14	18:02

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145721-3
Lab File ID : S0453.D

SDG: WE53-7
Analytical Date: 06/27/14 11:19
Instrument ID: GCMS-S

		PENTAFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#
	Std .	19691		7.52		17564		11.57	
	Upper Limit	39382		8.02		35128		12.07	
	Lower Limit	9845.5		7.02		8782		11.07	
Client Sample ID	Lab Sample ID								
Continuing Calibrati	WG145589-4	19698		7.51		18462		11.57	
Laboratory Control S	WG145589-1	19633		7.51		17918		11.57	
Method Blank Sample	WG145589-2	18317		7.52		15837		11.57	
FTA-MW-203-061814	SH4401-12	16167		7.52		13832		11.57	
FTA-GW-DUP01-0618	SH4401-14	15970		7.52		15417		11.57	
FTA-MW-218-061814	SH4401-16	17012		7.52		16190		11.57	
FTA-MW-206-061814	SH4401-18	17525		7.52		15072		11.57	
FTA-GW-TB01-06171⁴	SH4401-1	15817		7.51		12717		11.57	
FTA-MW-10-061714	SH4401-4	15764		7.51		14151		11.57	
FTA-MW-11-061714	SH4401-6	16439		7.52		14078		11.57	
FTA-MW-12-061714	SH4401-8	15882		7.52		13364		11.57	
FTA-MW-5-061814	SH4401-10	15560		7.51		15046		11.57	
FTA-MW-14-061714	SH4401-20	16498		7.52		17042		11.57	
FTA-MW-9-061714	SH4401-2	16142		7.51		14553		11.57	
FTA-GW-TB02-06181⁴	SH4521-1	15943		7.52		13609		11.57	
FTA-MW-208-061814	SH4521-2	15954		7.52		13076		11.57	
FTA-MW-1-061814	SH4521-4	15813		7.51		12619		11.57	
FTA-GW-DUP02-0618	SH4521-6	15296		7.51		12832		11.57	

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.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145721-3
Lab File ID : S0453.D

SDG: WE53-7
Analytical Date: 06/27/14 11:19
Instrument ID: GCMS-S

		PENTAFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#
	Std .	19691		7.52		17564		11.57	
	Upper Limit	39382		8.02		35128		12.07	
	Lower Limit	9845.5		7.02		8782		11.07	
Client Sample ID	Lab Sample ID								
Continuing Calibrati	WG145683-4	18909		7.52		17409		11.57	
Laboratory Control S	WG145683-1	18670		7.51		16119		11.57	
Method Blank Sample	WG145683-2	17003		7.51		12628		11.57	
FTA-MW-210-061814	SH4521-8	15957		7.51		10944		11.57	
FTA-SW-01-061914	SH4521-10	15810		7.51		11921		11.57	
FTA-SW-02-061914	SH4521-12	15367		7.51		10516		11.57	
FTA-SW-03-061914	SH4521-14	15608		7.51		12838		11.57	
FTA-SW-06-061914	SH4521-16	15210		7.51		11681		11.57	
FTA-SW-07-061914	SH4521-18	16277		7.52		14495		11.59	
FTA-SW-08-061914	SH4521-20	15298		7.51		11365		11.57	
FTA-SW-DUP01-0619	SH4521-22	15368		7.51		12364		11.57	
Matrix Spike	WG145683-5	16697		7.51		14362		11.57	
Matrix Spike Duplica	WG145683-6	17337		7.52		15126		11.57	
Matrix Spike	WG145683-7	17065		7.52		15293		11.57	
Matrix Spike Duplica	WG145683-8	16749		7.51		15352		11.57	

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.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-1
Client ID: FTA-GW-TB01-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0473.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		115.	%					
Toluene-D8		105.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0473.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

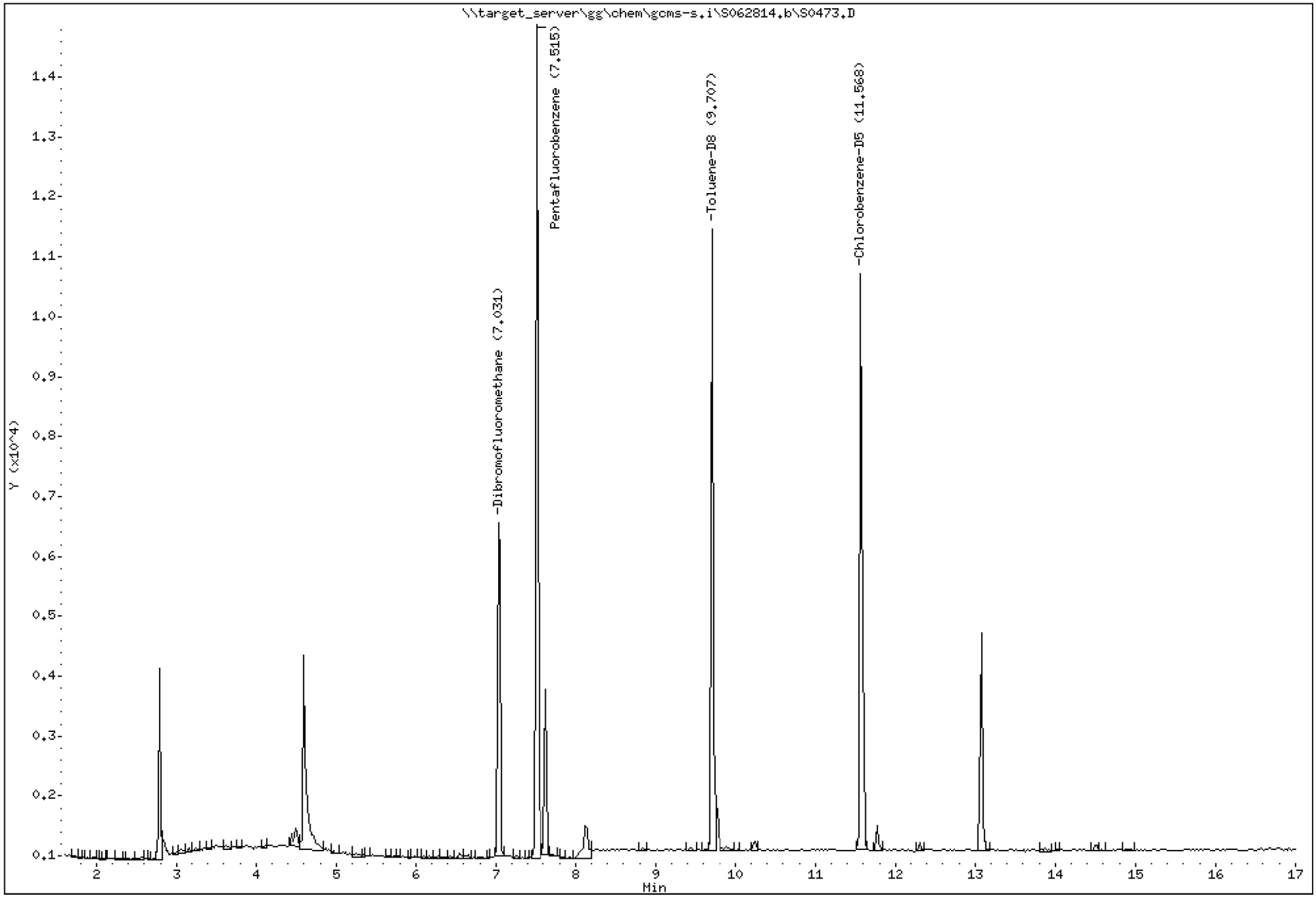
Data file : \\target_server\gg\chem\gcms-s.i\S062814.b\S0473.D
Lab Smp Id: SH4401-1 Client Smp ID: FTA-GW-TB01-061714
Inj Date : 28-JUN-2014 12:20 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-1
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	6829	1.14613	1.1	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15817	1.00000		
$ 22 Toluene-D8	98	9.706	9.708	(0.839)	16824	1.04963	1.0	
* 31 Chlorobenzene-D5	117	11.568	11.569	(1.000)	12717	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0473.D
Date : 28-JUN-2014 12:20
Client ID: FTA-GW-TB01-061714 Instrument: gcms-s.i
Sample Info: SH4401-1



Katahdin Analytical Services 2000017

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0479.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride		0.84	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		117.	%					
Toluene-D8		95.4	%					

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Report Date: 10-Jul-2014 11:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Lab Smp Id: SH4401-2 Client Smp ID: FTA-MW-9-061714
Inj Date : 28-JUN-2014 16:14 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-2
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.974	2.994	(0.396)	49983	0.83851	0.84(M)	M10
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7118	1.17058	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	16142	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	17501	0.95412	0.95	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	14553	1.00000		

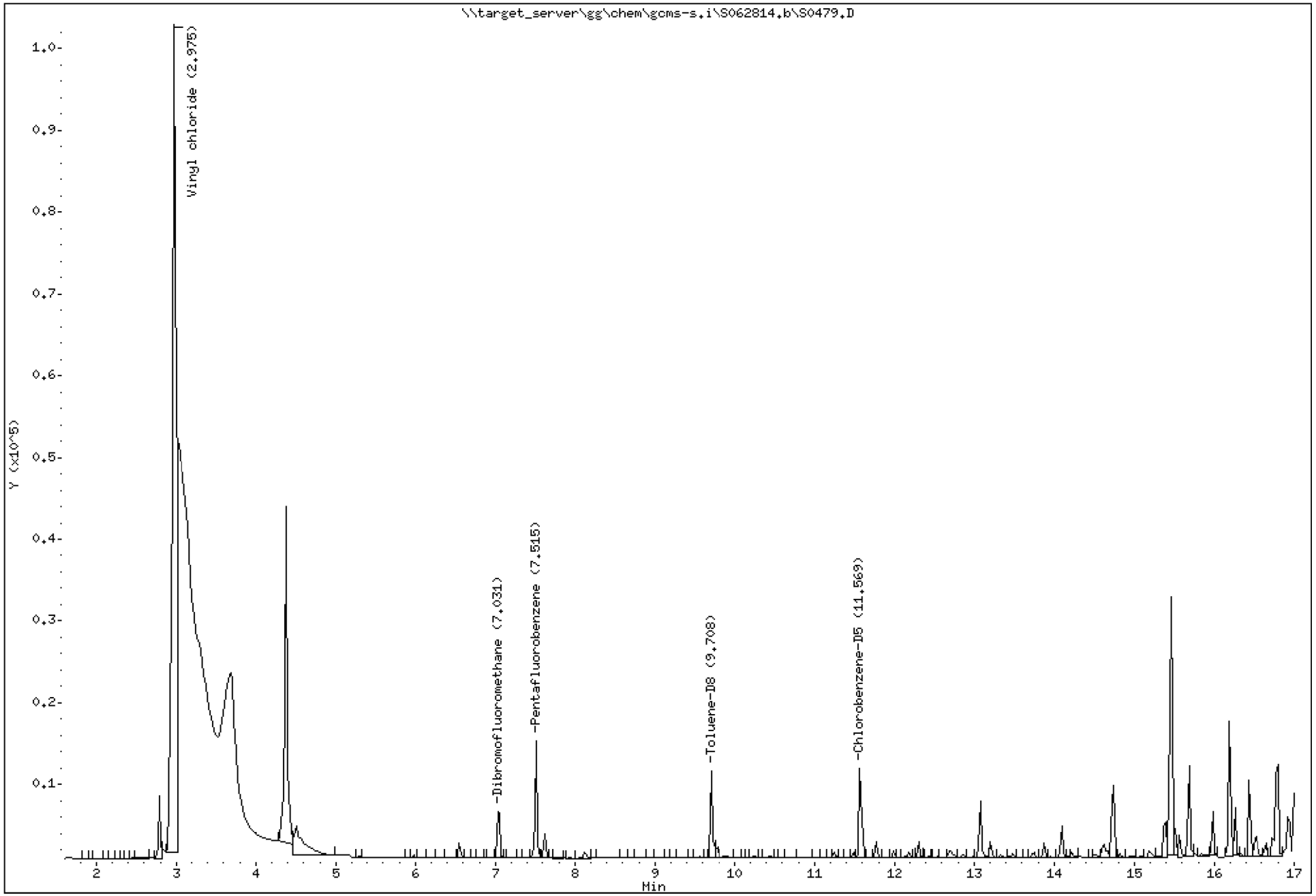
DJP

1:38 pm, Jul 10, 2014

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Date : 28-JUN-2014 16:14
Client ID: FTA-MW-9-061714 Instrument: gcms-s.i
Sample Info: SH4401-2



Katahdin Analytical Services 2000020

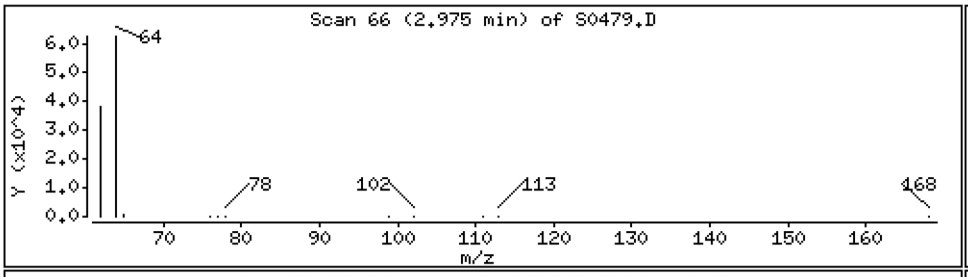
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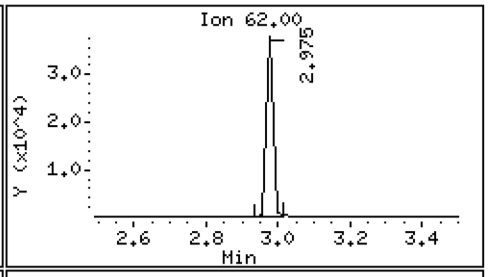
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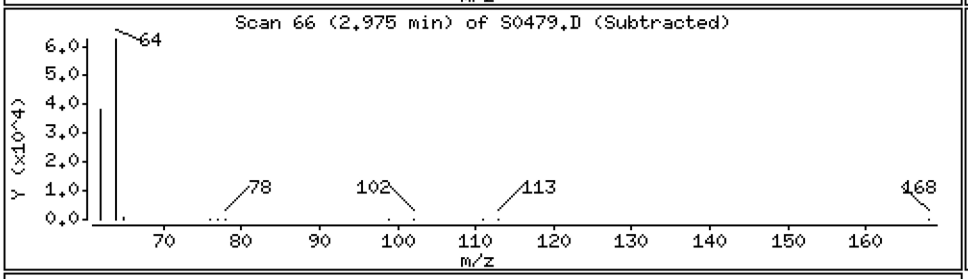
Client ID: FTA-MW-9-061714 Instrument: gcms-s.i

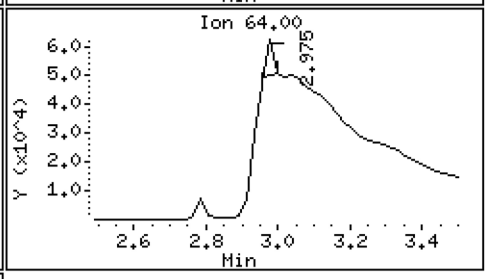
Sample Info: SH4401-2

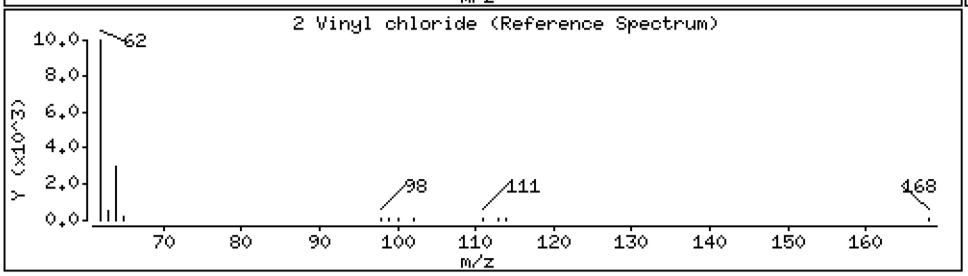
2 Vinyl chloride Concentration: 0.84 ug/l







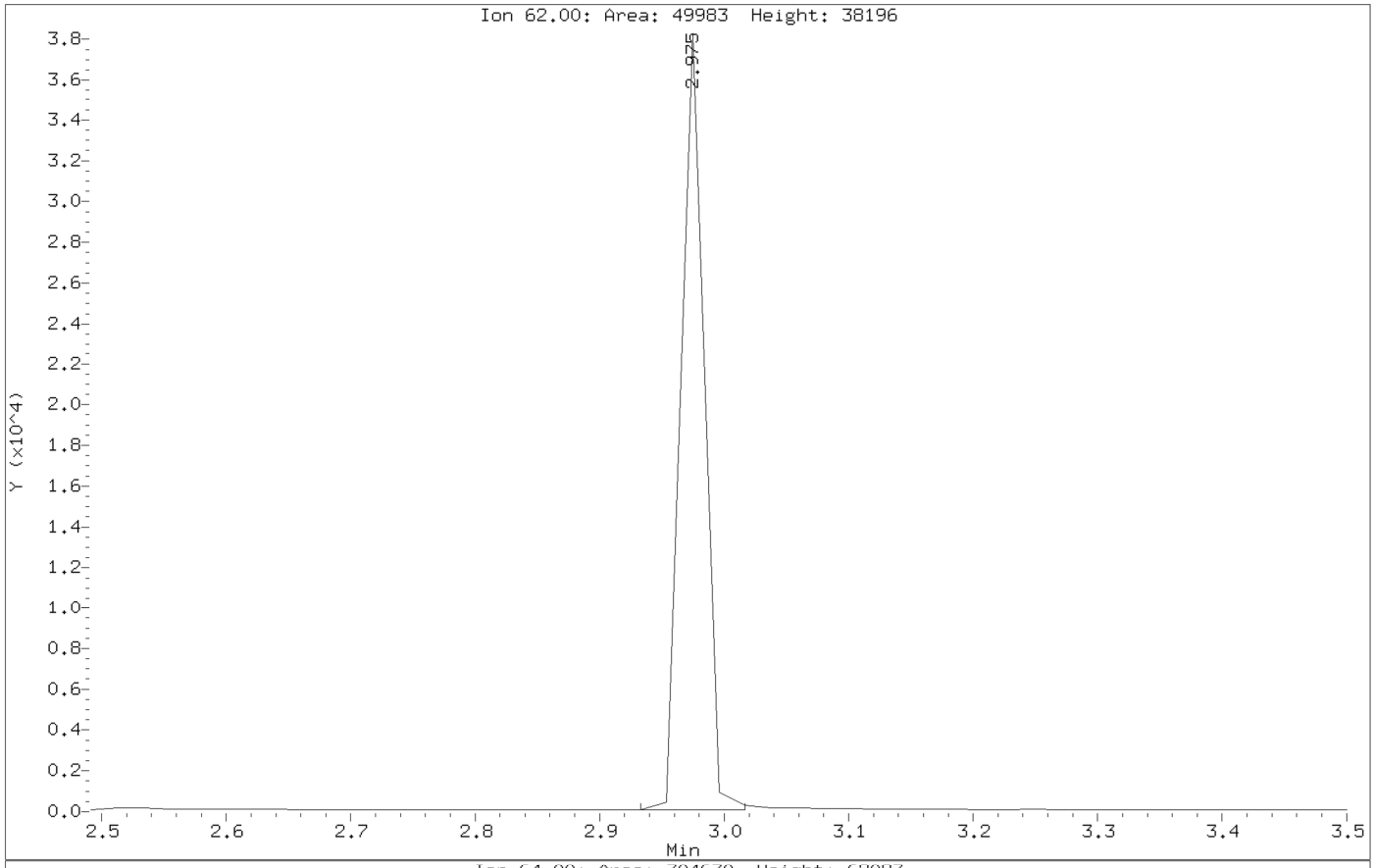


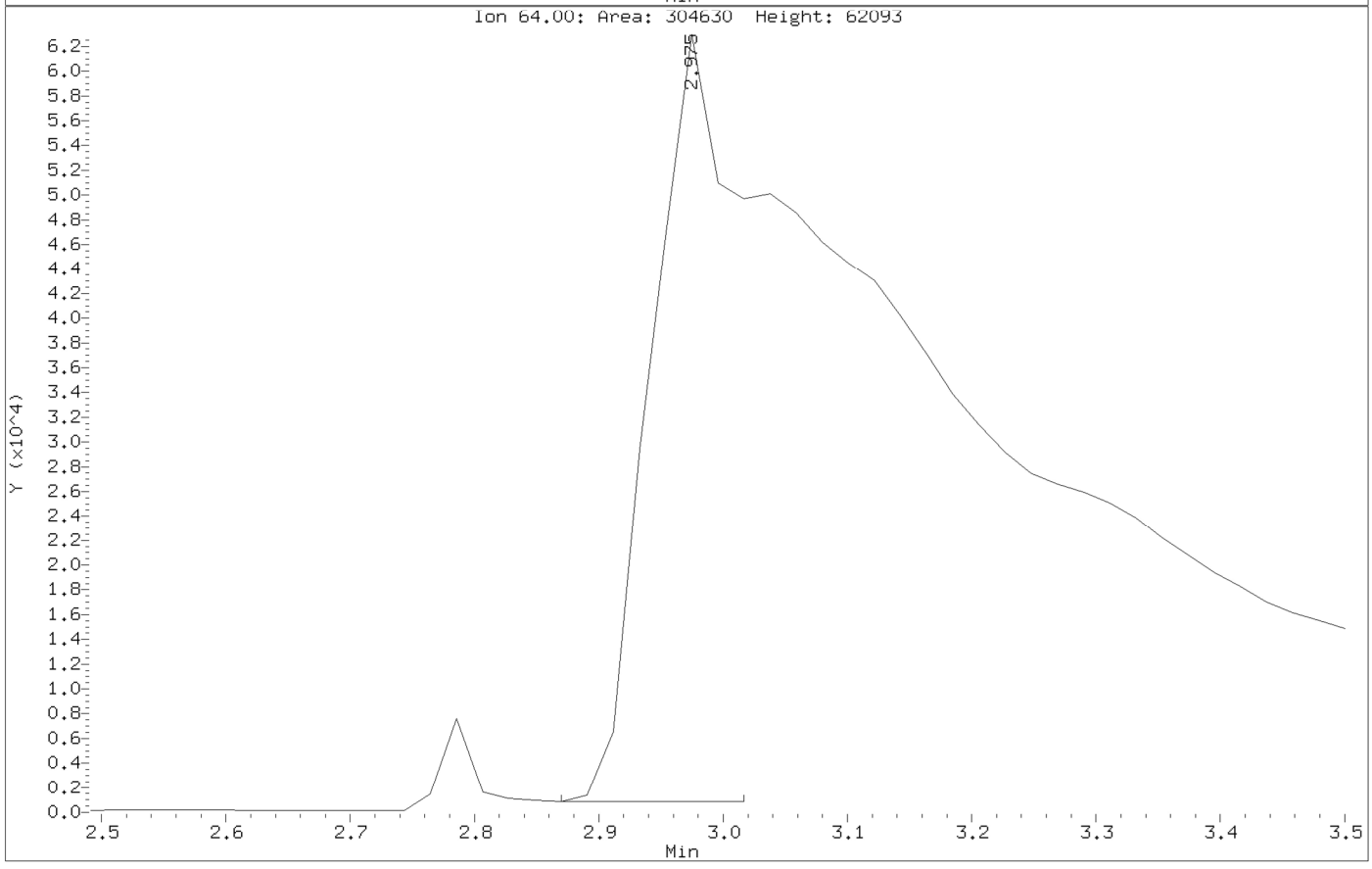


Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Injection Date: 28-JUN-2014 16:14
Instrument: gcms-s.i
Client Sample ID: FTA-MW-9-061714

Compound: Vinyl chloride
CAS Number: 75-01-4

BEFORE MANUAL INTEGRATION

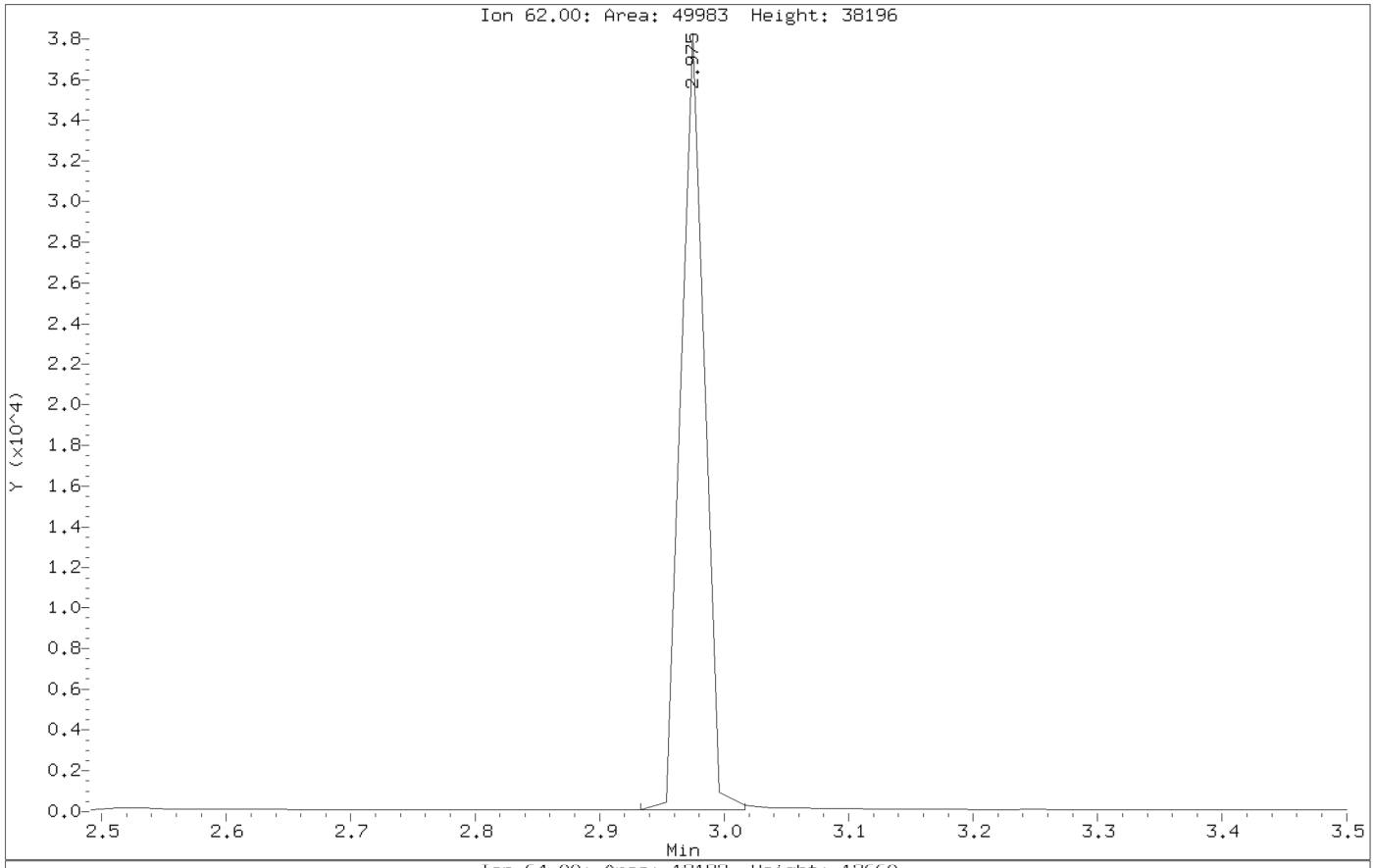


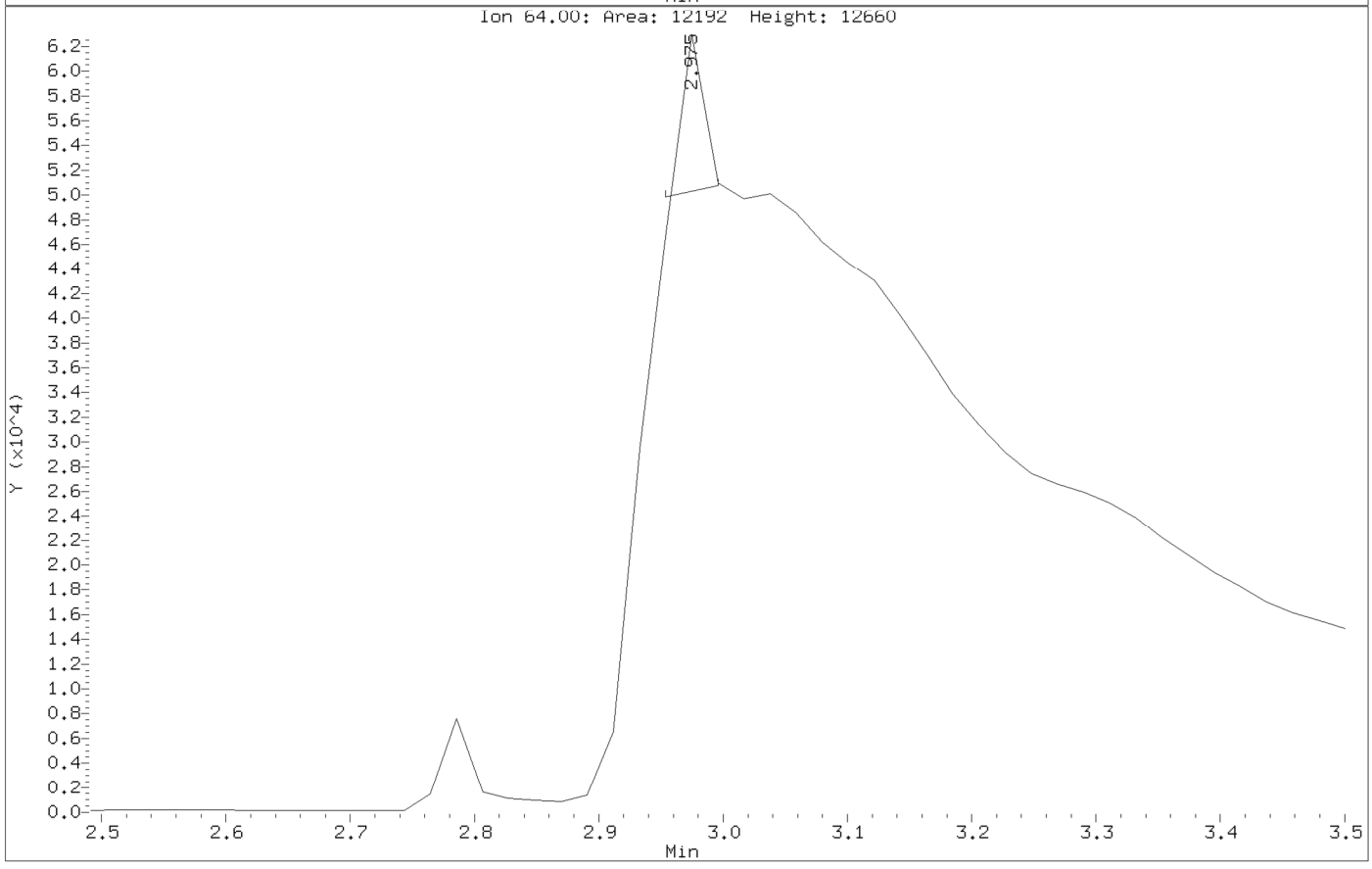


Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Injection Date: 28-JUN-2014 16:14
Instrument: gcms-s.i
Client Sample ID: FTA-MW-9-061714

Compound: Vinyl chloride
CAS Number: 75-01-4

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0474.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	J	0.081	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	J	0.012	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		120.	%					
Toluene-D8		96.4	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0474.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S062814.b\S0474.D
Lab Smp Id: SH4401-4 Client Smp ID: FTA-MW-10-061714
Inj Date : 28-JUN-2014 12:59 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-4
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

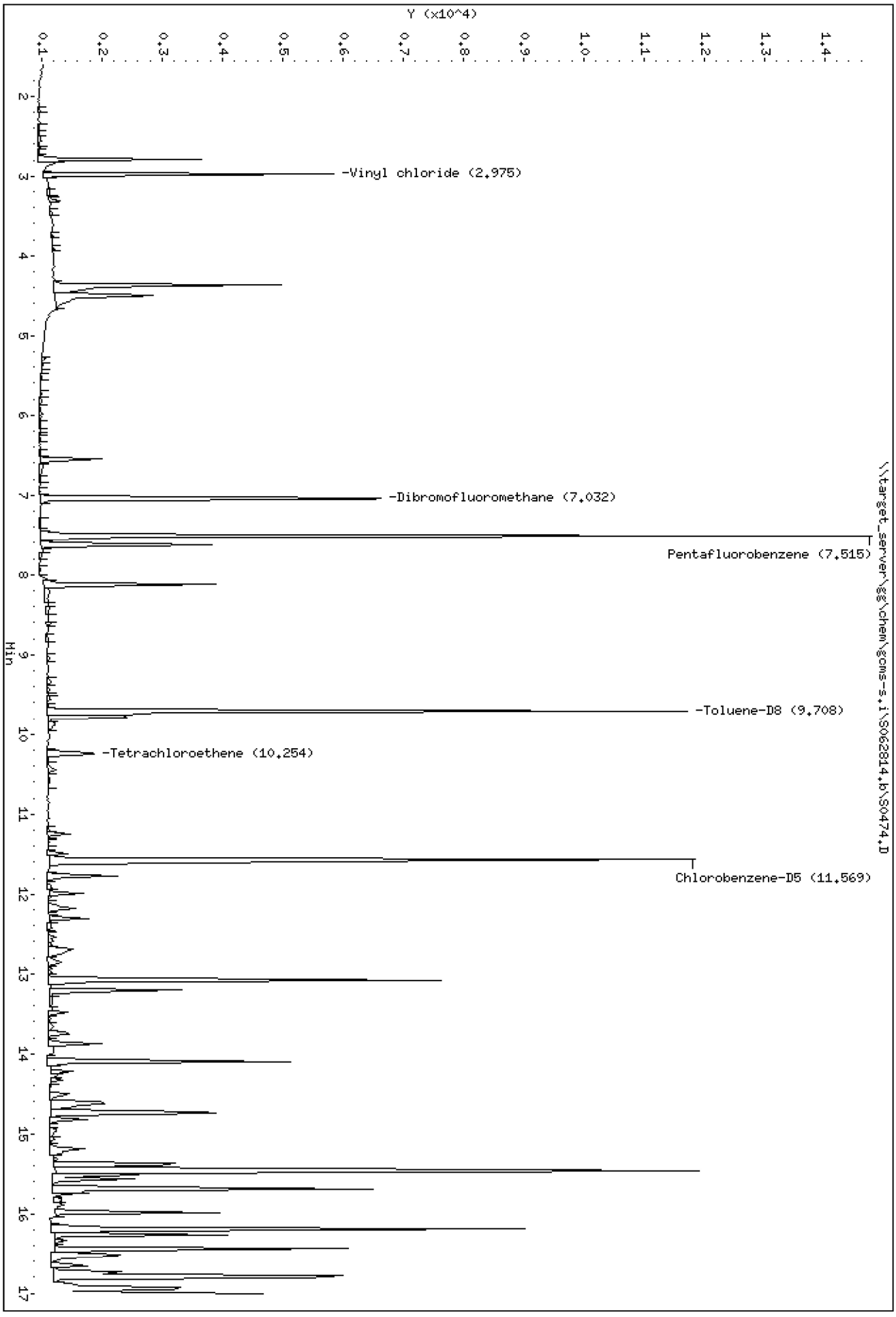
Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	4709	0.08089	0.081	
$	11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7123	1.19949	1.2	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15764	1.00000		
$	22 Toluene-D8	98	9.707	9.708	(0.839)	17189	0.96373	0.96	
	24 Tetrachloroethene	164	10.253	10.254	(0.886)	512	0.01182	0.012(a)	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	14151	1.00000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^4)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min
-Vinyl chloride (2.975)
-Dibromofluoromethane (7.032)
Pentafluorobenzene (7.515)
-Toluene-D8 (9.708)
-Tetrachloroethene (10.254)
Chlorobenzene-D5 (11.569)
\\target_server\gg\chem\gcms-s.i\S062814.b\S0474.D
Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0474.D
Date : 28-JUN-2014 12:59
Client ID: FTA-MW-10-061714
Sample Info: SH4401-4
Instrument: gcms-s.i

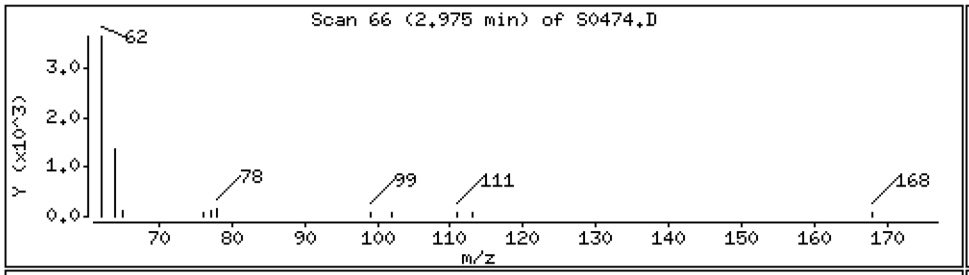
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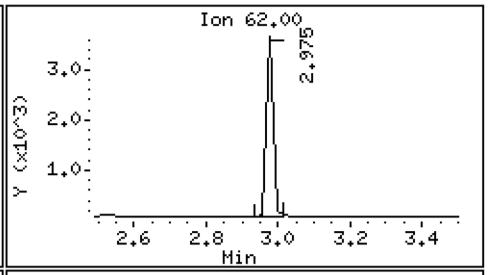
Date : 28-JUN-2014 12:59

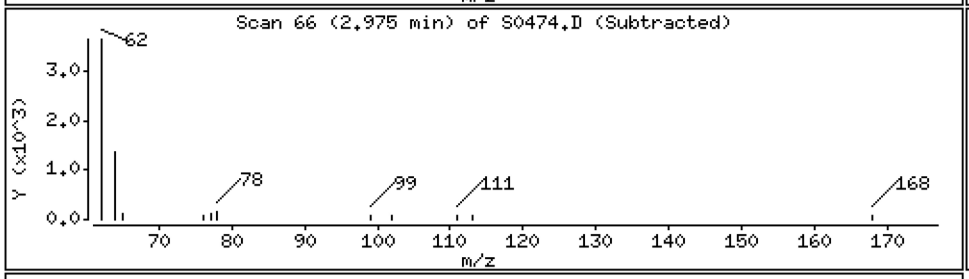
Client ID: FTA-MW-10-061714 Instrument: gcms-s.i

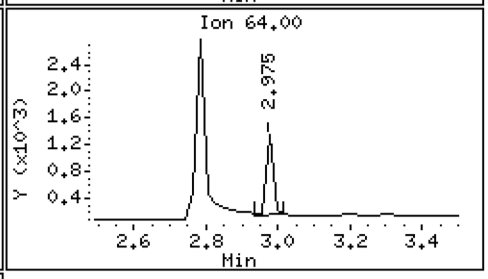
Sample Info: SH4401-4

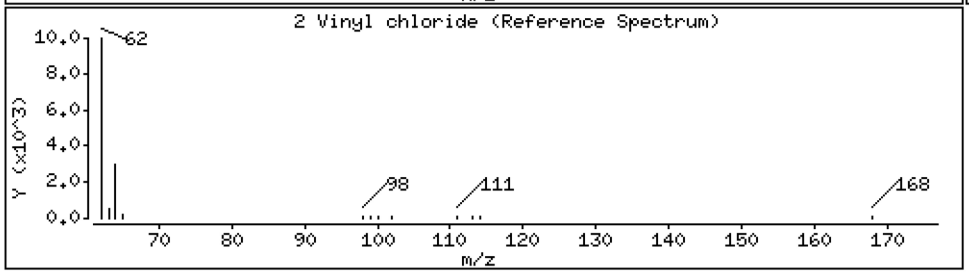
2 Vinyl chloride Concentration: 0.081 ug/l



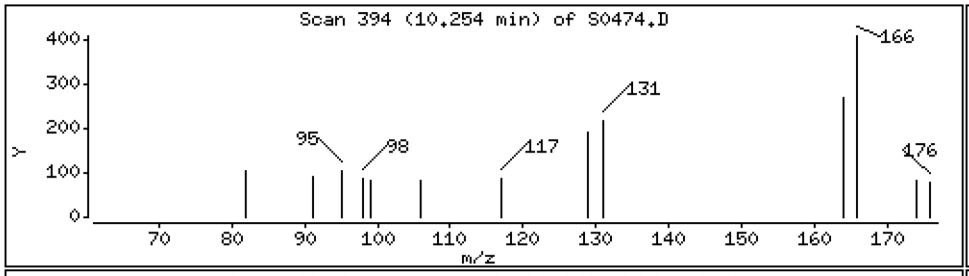


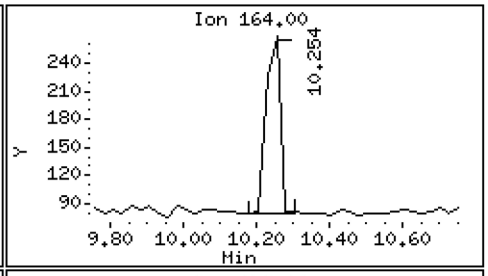


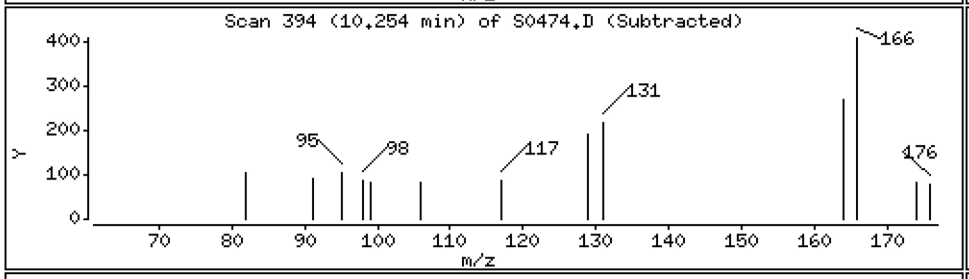


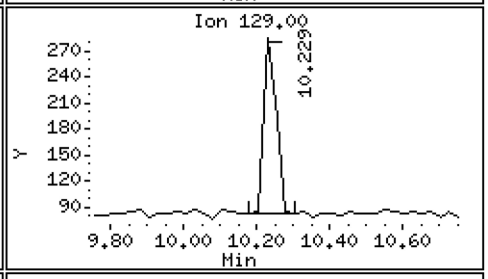


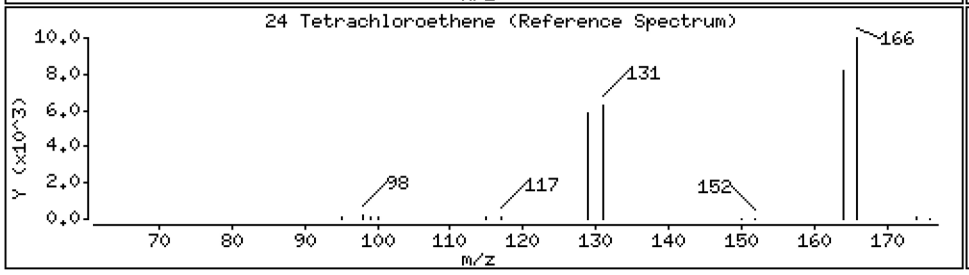
24 Tetrachloroethene Concentration: 0.012 ug/l

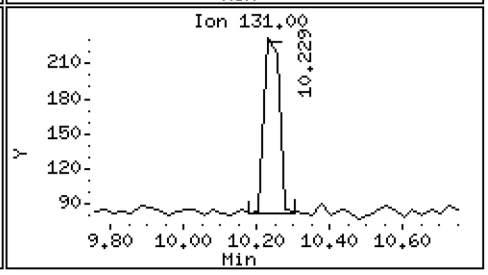












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0475.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		119.	%					
Toluene-D8		97.1	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0475.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

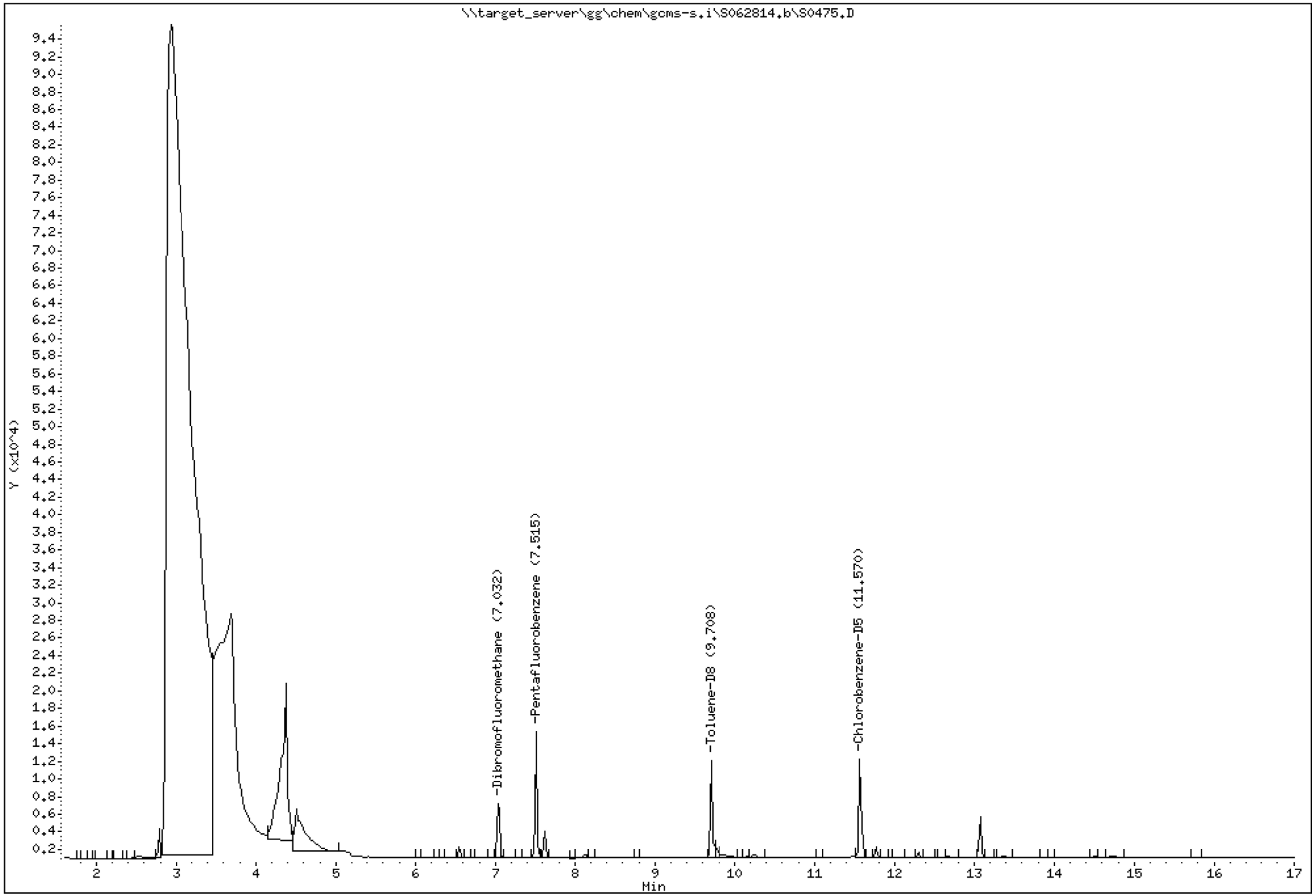
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Lab Smp Id: SH4401-6 Client Smp ID: FTA-MW-11-061714
Inj Date : 28-JUN-2014 13:38 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-6
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7371	1.19028	1.2	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	16439	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17230	0.97104	0.97	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	14078	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0475.D
Date : 28-JUN-2014 13:38
Client ID: FTA-MW-11-061714 Instrument: gcms-s.i
Sample Info: SH4401-6



Katahdin Analytical Services 2000030

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0476.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		123.	%					
Toluene-D8		98.4	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0476.D
Report Date: 10-Jul-2014 11:13

Katahdin Analytical Services

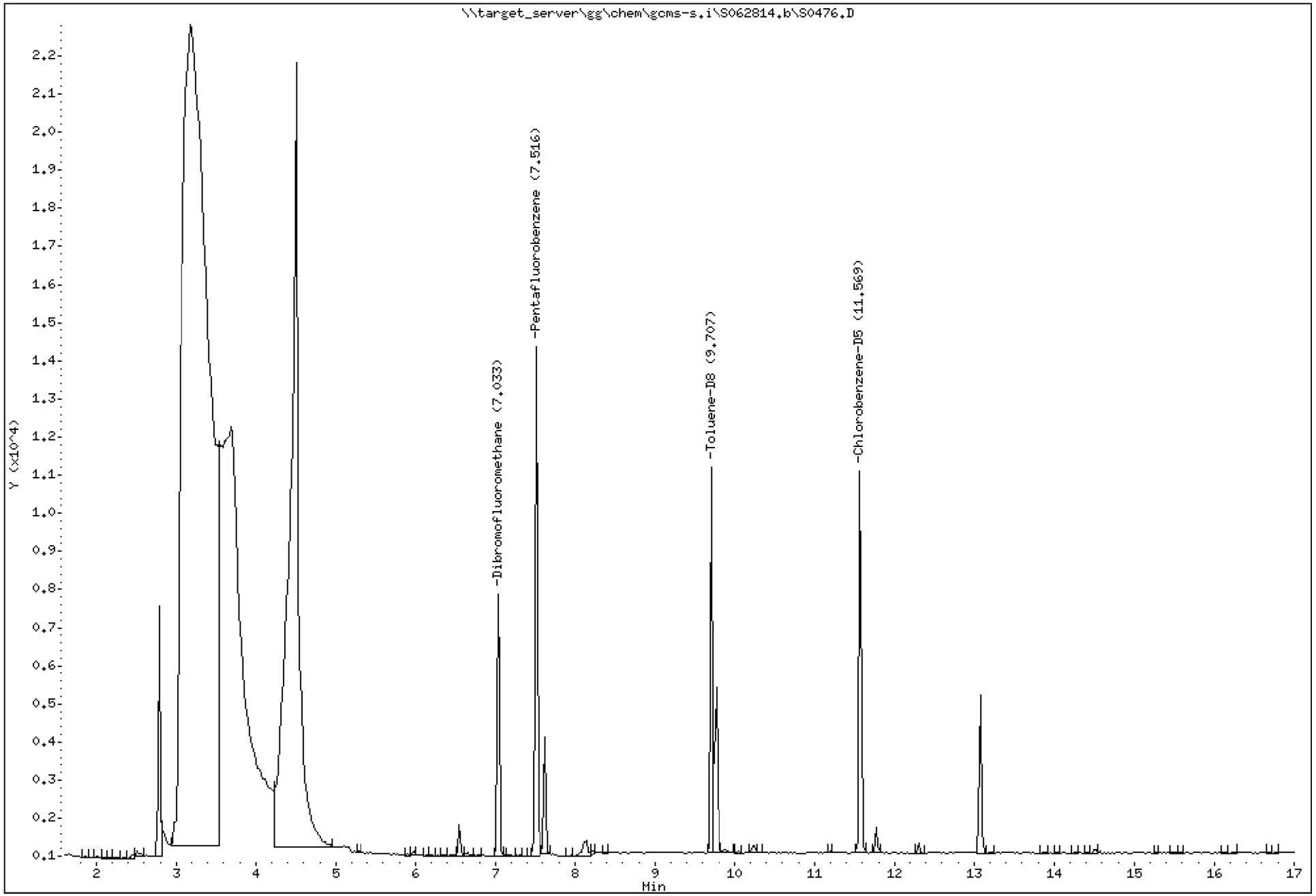
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Lab Smp Id: SH4401-8 Client Smp ID: FTA-MW-12-061714
Inj Date : 28-JUN-2014 14:17 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-8
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7370	1.23186	1.2	
* 14 Pentafluorobenzene	168	7.516	7.534	(1.000)	15882	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	16566	0.98350	0.98	
* 31 Chlorobenzene-D5	117	11.568	11.569	(1.000)	13364	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0476.D
Date : 28-JUN-2014 14:17
Client ID: FTA-MW-12-061714 Instrument: gcms-s.i
Sample Info: SH4401-8



Katahdin Analytical Services 2000033

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0477.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		123.	%					
Toluene-D8		90.3	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0477.D
Report Date: 10-Jul-2014 10:41

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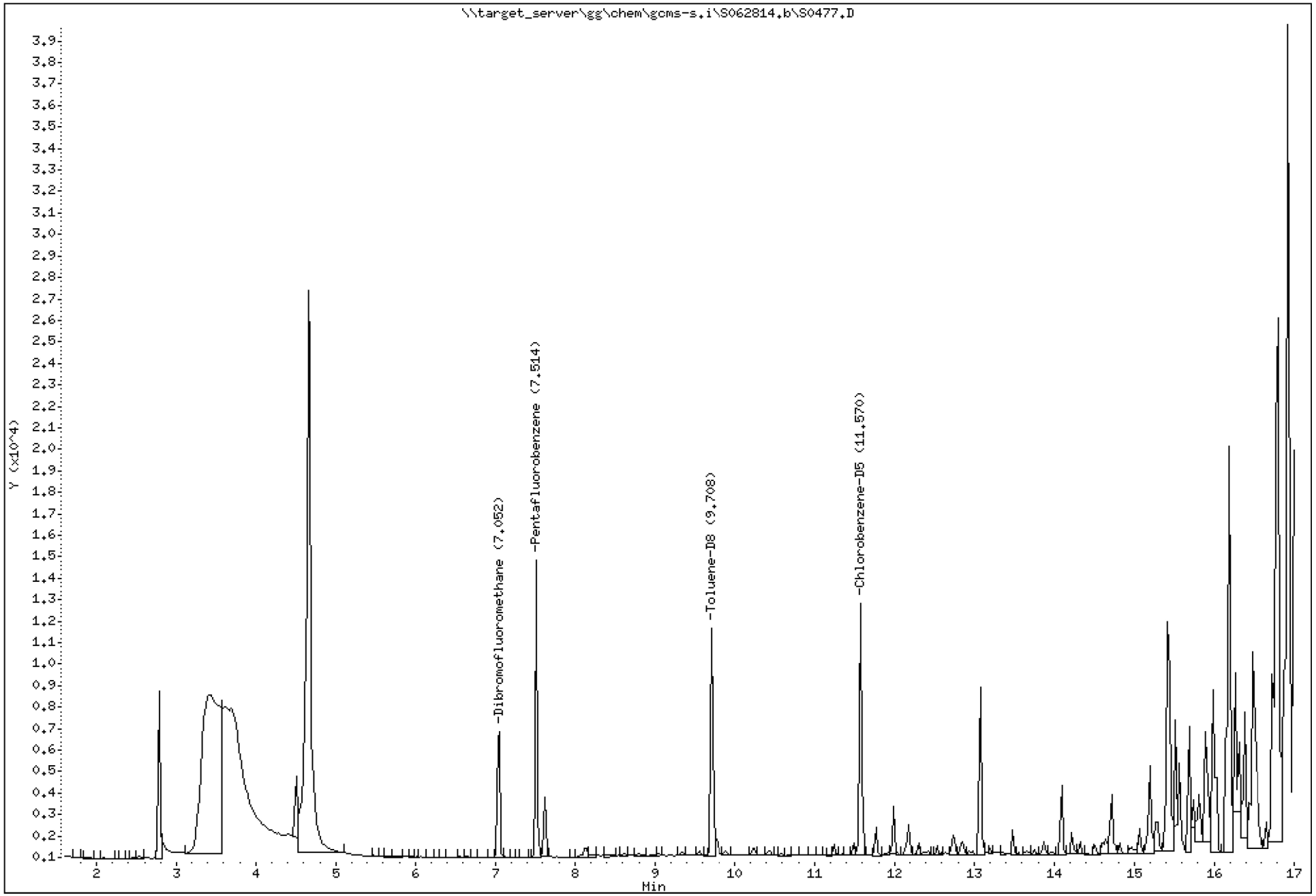
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Lab Smp Id: SH4401-10 Client Smp ID: FTA-MW-5-061814
Inj Date : 28-JUN-2014 14:56 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-10
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.051	7.072	(0.938)	7238	1.23483	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15560	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17118	0.90266	0.90	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15046	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0477.D
Date : 28-JUN-2014 14:56
Client ID: FTA-MW-5-061814 Instrument: gcms-s.i
Sample Info: SH4401-10



Katahdin Analytical Services 2000036

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0469.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		109.	%					
Toluene-D8		99.0	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0469.D
Report Date: 10-Jul-2014 10:40

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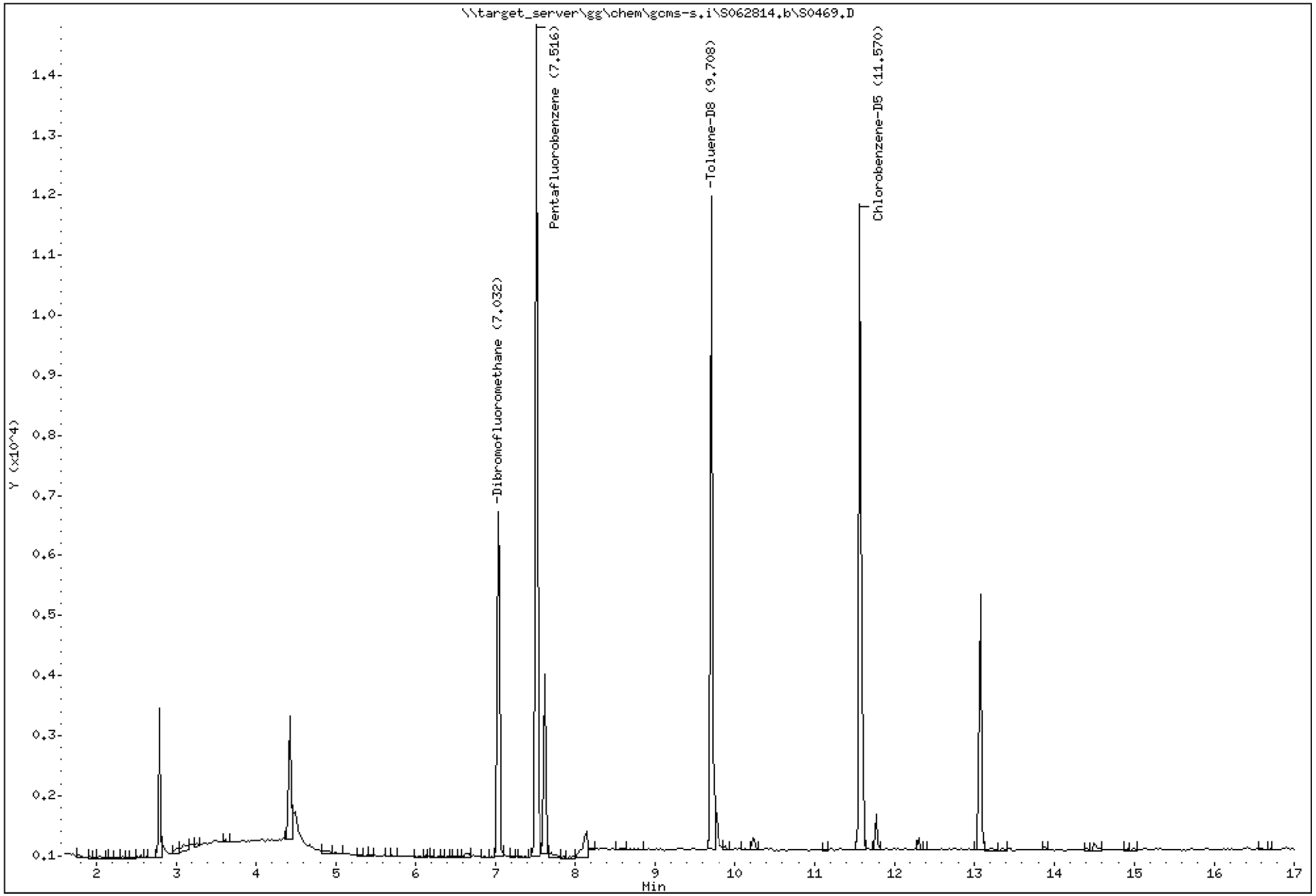
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Lab Smp Id: SH4401-12 Client Smp ID: FTA-MW-203-061814
Inj Date : 28-JUN-2014 09:44 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-12
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	6617	1.08650	1.1	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	16167	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17256	0.98980	0.99	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	13832	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0469.D
Date : 28-JUN-2014 09:44
Client ID: FTA-MW-203-061814 Instrument: gcms-s.i
Sample Info: SH4401-12



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0470.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		120.	%					
Toluene-D8		92.1	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0470.D
Report Date: 10-Jul-2014 10:40

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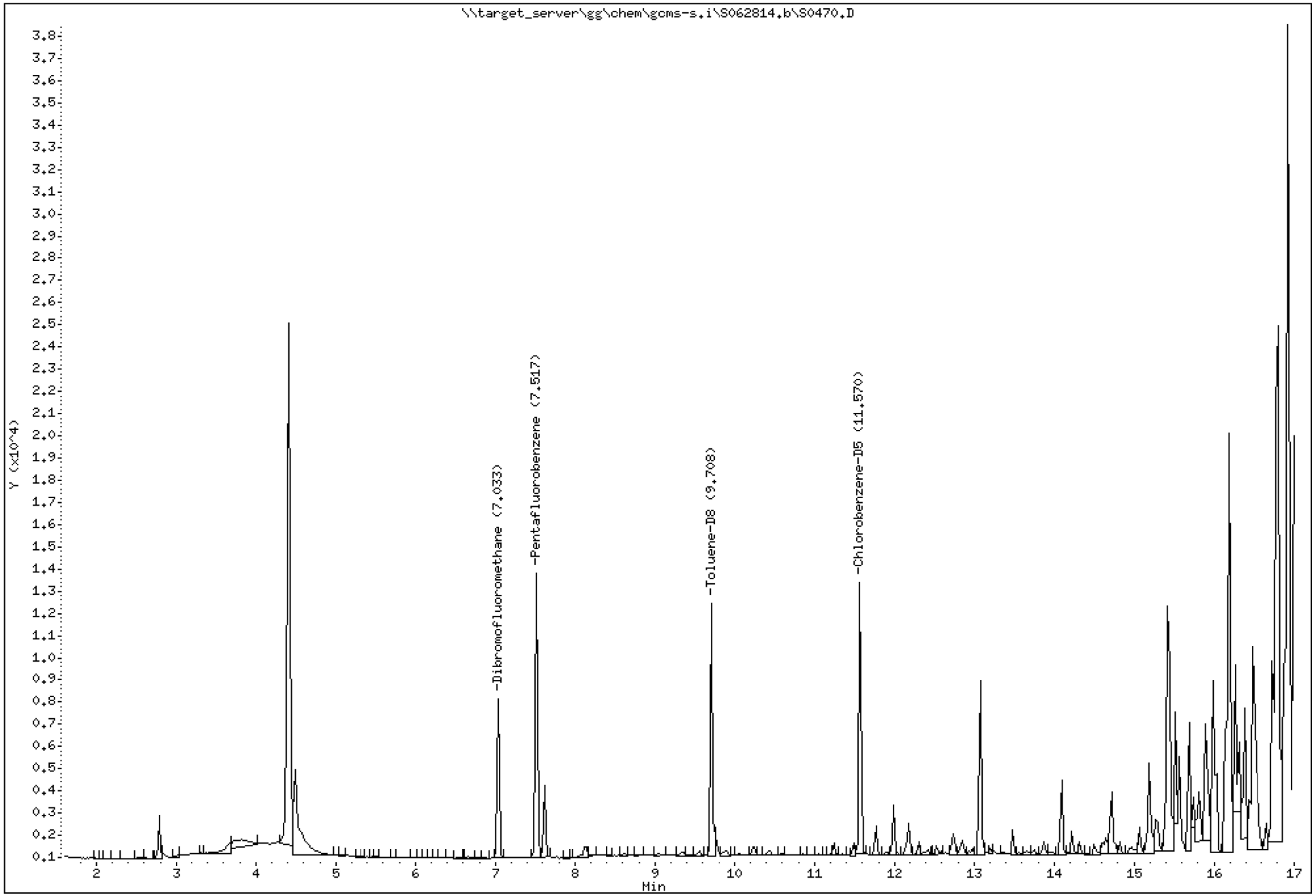
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Lab Smp Id: SH4401-14 Client Smp ID: FTA-GW-DUP01-061814
Inj Date : 28-JUN-2014 10:23 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-14
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.033	7.072	(0.936)	7253	1.20562	1.2	
* 14 Pentafluorobenzene	168	7.516	7.534	(1.000)	15970	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17894	0.92087	0.92	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15417	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0470.D
Date : 28-JUN-2014 10:23
Client ID: FTA-GW-DUP01-061814 Instrument: gcms-s.i
Sample Info: SH4401-14



Katahdin Analytical Services 2000042

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0471.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		113.	%					
Toluene-D8		93.8	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0471.D
Report Date: 10-Jul-2014 10:40

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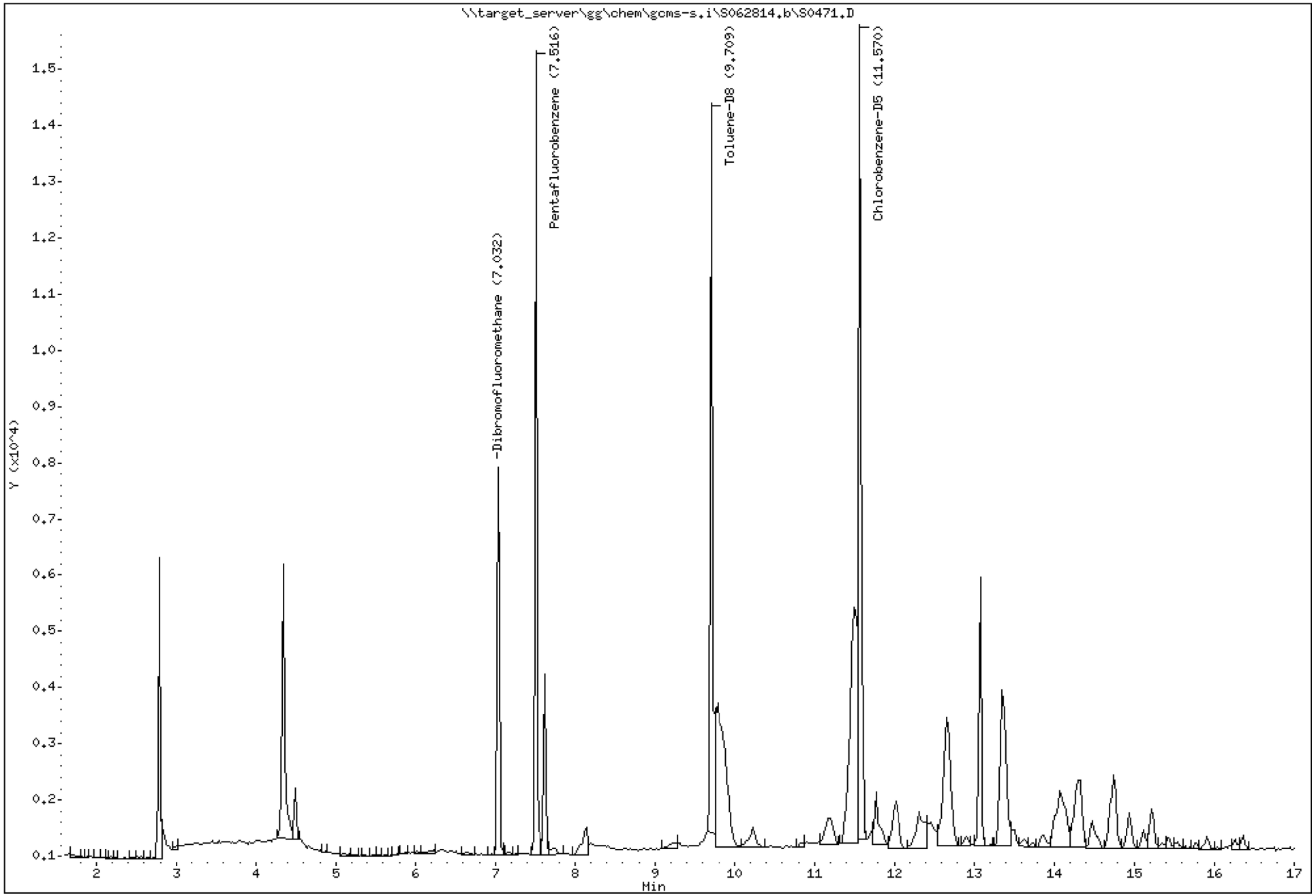
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Lab Smp Id: SH4401-16 Client Smp ID: FTA-MW-218-061814
Inj Date : 28-JUN-2014 11:02 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-16
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7273	1.13490	1.1	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	17012	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	19142	0.93807	0.94	
* 31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	16190	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0471.D
Date : 28-JUN-2014 11:02
Client ID: FTA-MW-218-061814
Instrument: gcms-s.i
Sample Info: SH4401-16



Katahdin Analytical Services 2000045

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0472.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	J	0.054	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		111.	%					
Toluene-D8		101.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0472.D
Report Date: 10-Jul-2014 10:41

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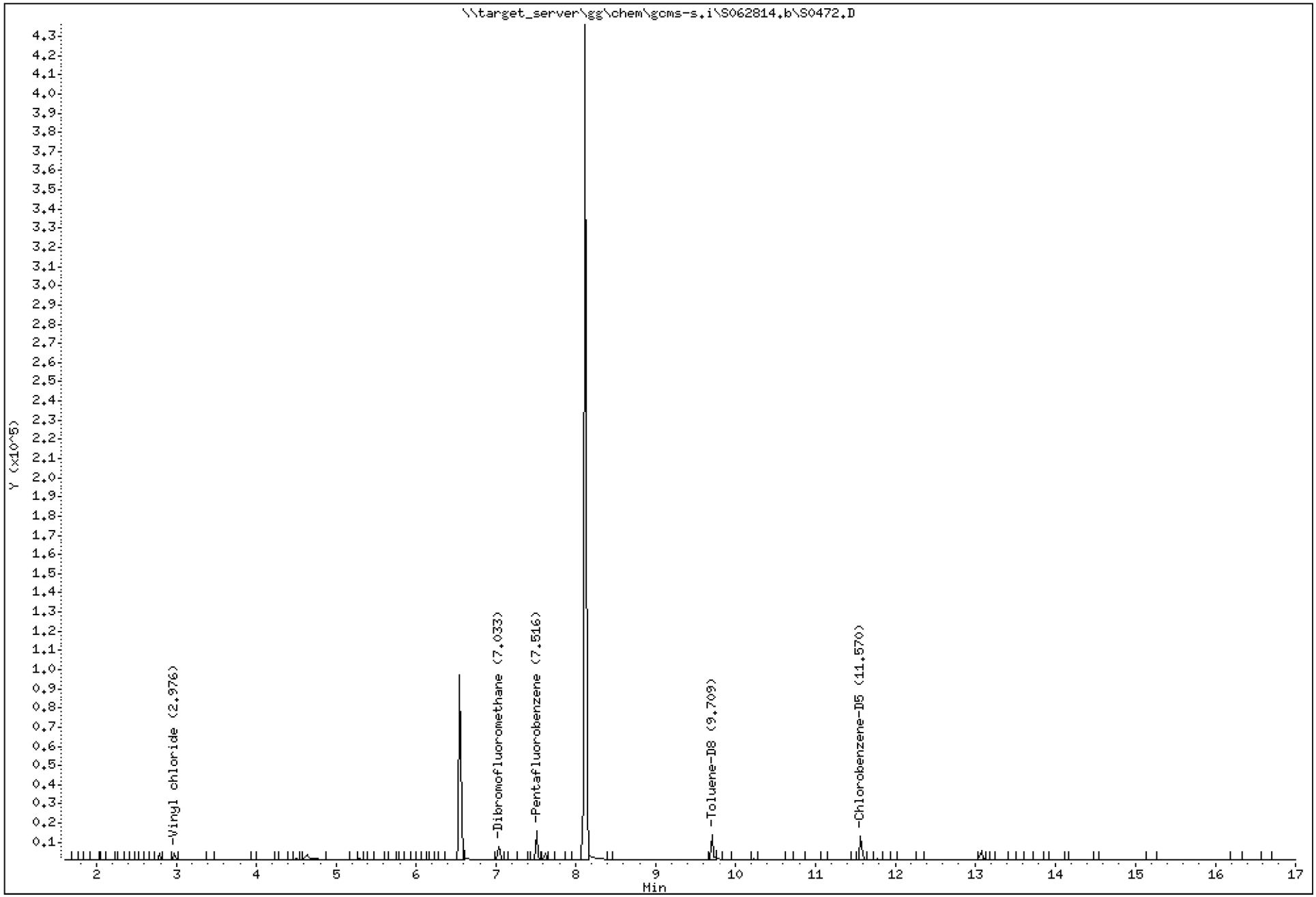
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Lab Smp Id: SH4401-18 Client Smp ID: FTA-MW-206-061814
Inj Date : 28-JUN-2014 11:41 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-18
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.975	2.994	(0.396)	3479	0.05376	0.054	
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7318	1.10849	1.1	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	17525	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	19236	1.01260	1.0	
* 31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	15072	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0472.D
Date : 28-JUN-2014 11:41
Client ID: FTA-MW-206-061814 Instrument: gcms-s.i
Sample Info: SH4401-18



Katahdin Analytical Services 2000048

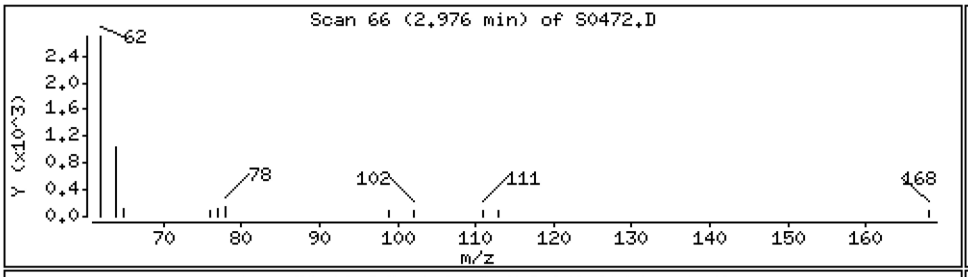
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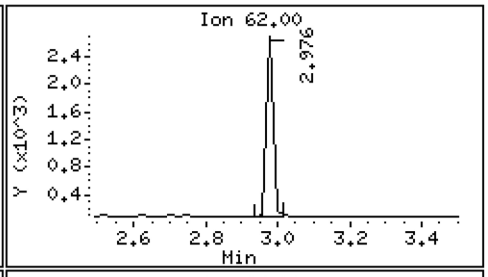
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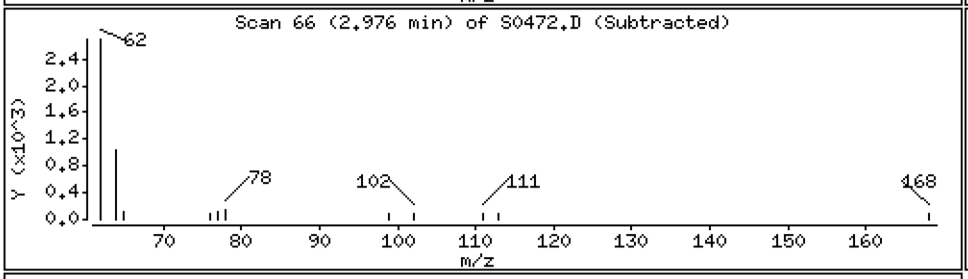
Client ID: FTA-MW-206-061814 Instrument: gcms-s.i

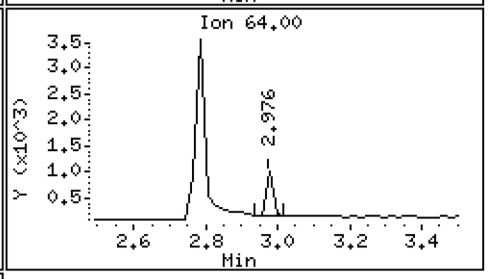
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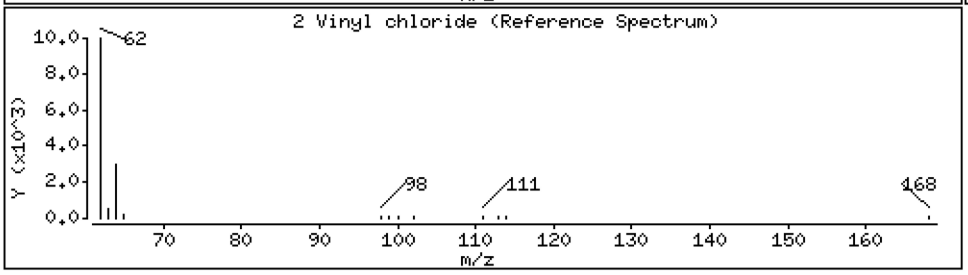
2 Vinyl chloride Concentration: 0.054 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0478.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		117.	%					
Toluene-D8		82.9	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0478.D
Report Date: 10-Jul-2014 10:41

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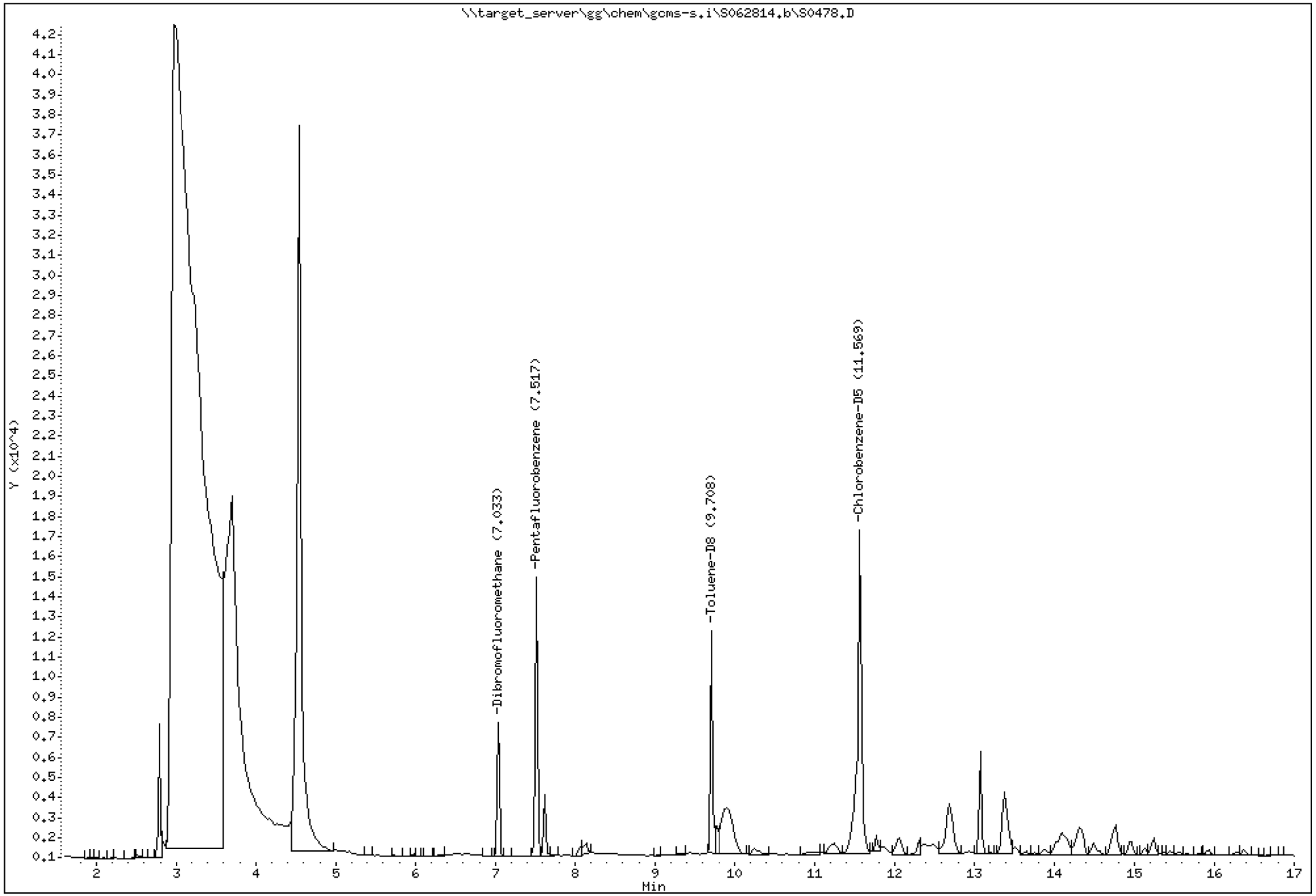
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Lab Smp Id: SH4401-20 Client Smp ID: FTA-MW-14-061714
Inj Date : 28-JUN-2014 15:35 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4401-20
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.033	7.072	(0.936)	7257	1.16768	1.2	
* 14 Pentafluorobenzene	168	7.516	7.534	(1.000)	16498	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	17810	0.82916	0.83	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	17042	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0478.D
Date : 28-JUN-2014 15:35
Client ID: FTA-MW-14-061714 Instrument: gcms-s.i
Sample Info: SH4401-20



Katahdin Analytical Services 2000052

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-1
Client ID: FTA-GW-TB02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0480.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		120.	%					
Toluene-D8		101.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0480.D
Report Date: 10-Jul-2014 10:41

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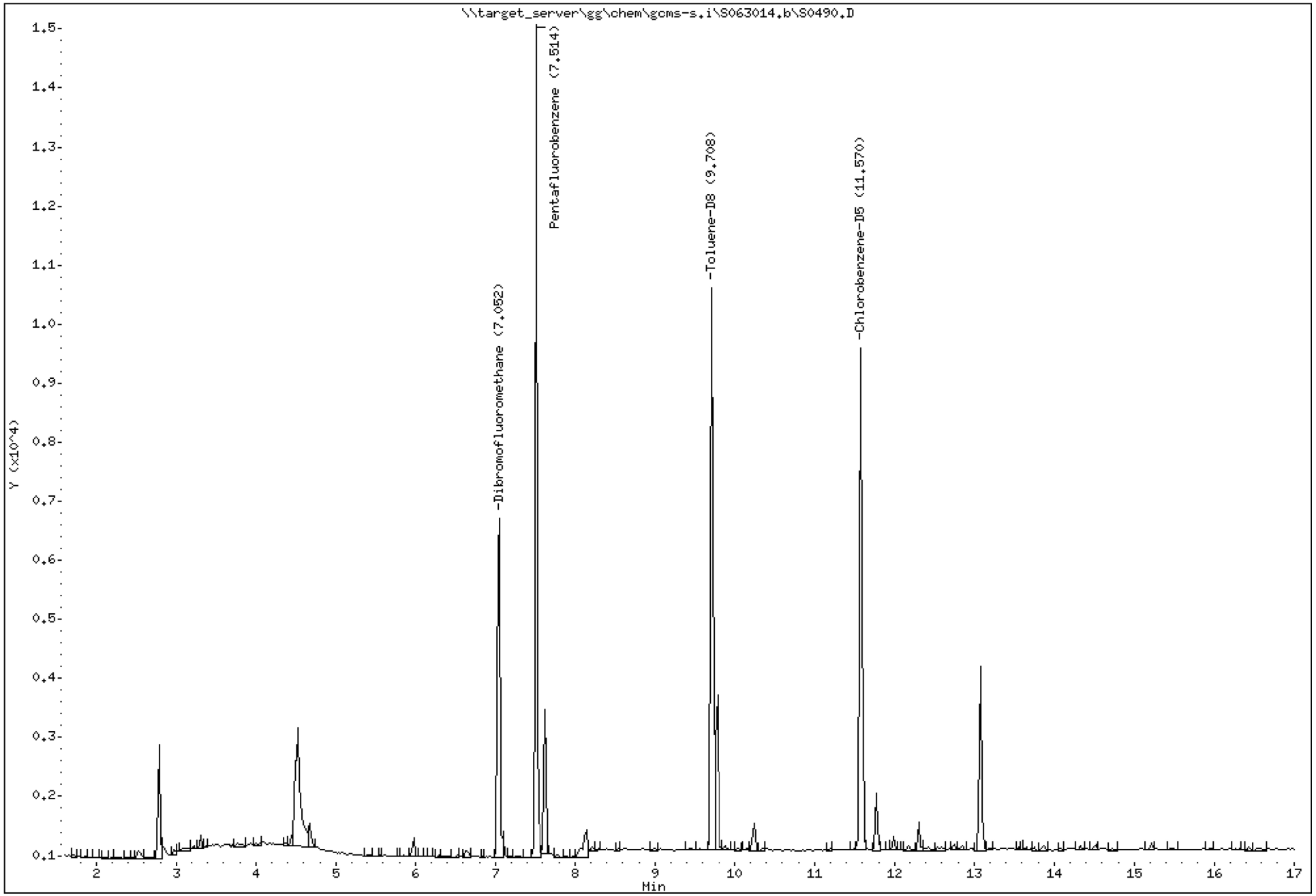
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Lab Smp Id: SH4521-1 Client Smp ID: FTA-GW-TB02-061814
Inj Date : 28-JUN-2014 16:53 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-1
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

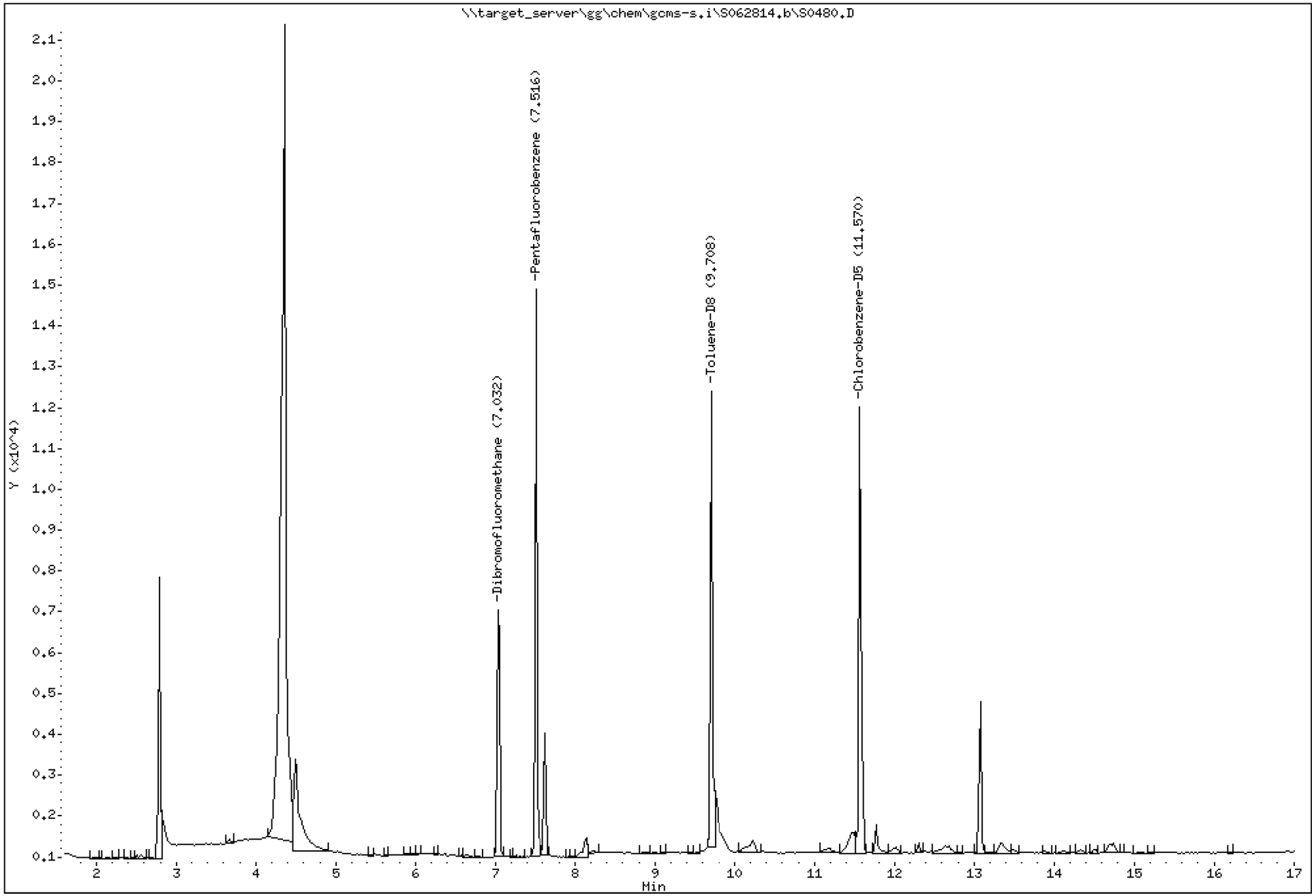
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.053	7.072	(0.938)	7239	1.20533	1.2	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	15943	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17317	1.00958	1.0	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	13609	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0490.D
Date : 30-JUN-2014 11:33
Client ID: FTA-SW-01-061914
Instrument: gcms-s.i
Sample Info: SH4521-10



Katahdin Analytical Services 2000055

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0480.D
Date : 28-JUN-2014 16:53
Client ID: FTA-GW-TB02-061814 Instrument: gcms-s.i
Sample Info: SH4521-1



Katahdin Analytical Services 2000056

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0481.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		119.	%					
Toluene-D8		103.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0481.D
Report Date: 10-Jul-2014 11:13

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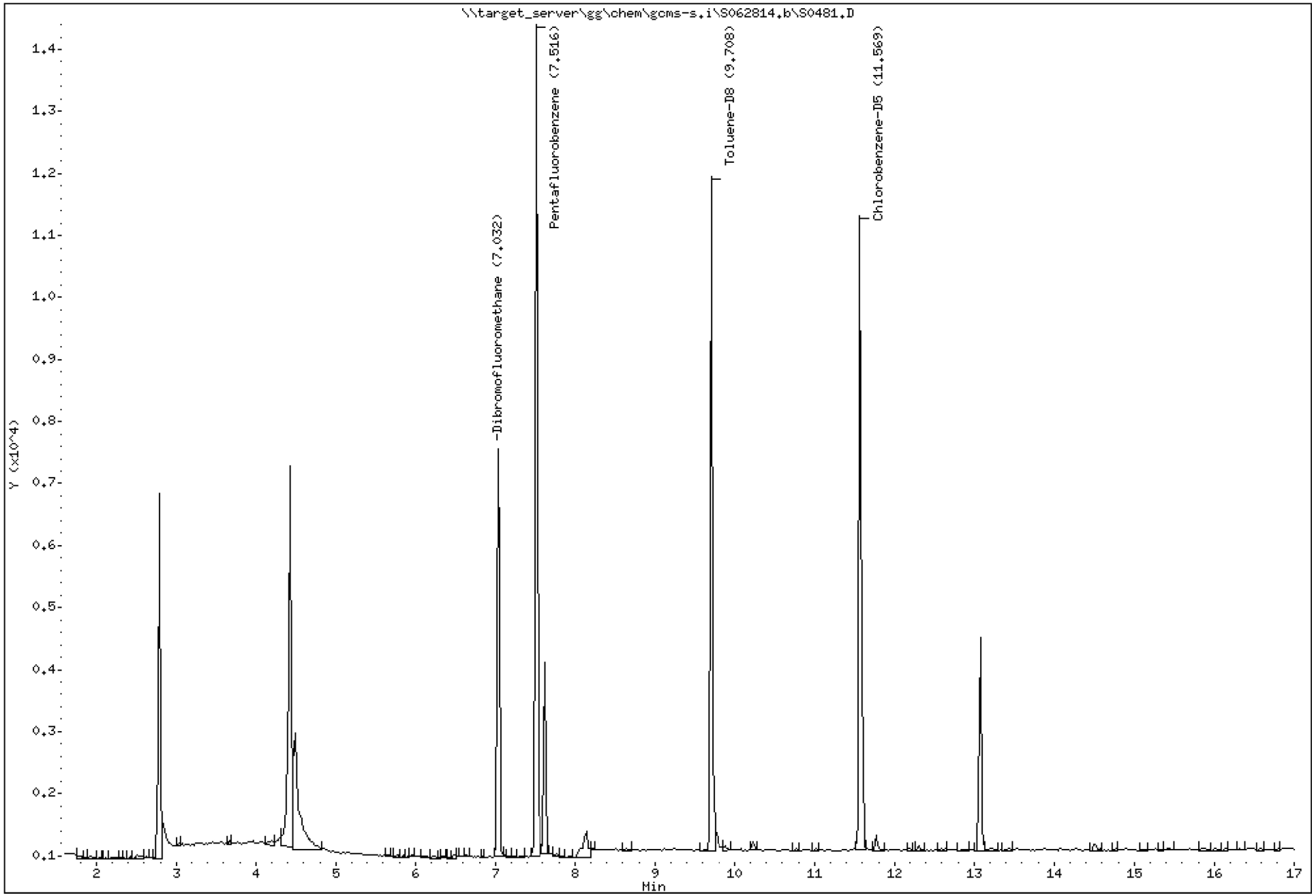
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Lab Smp Id: SH4521-2 Client Smp ID: FTA-MW-208-061814
Inj Date : 28-JUN-2014 17:33 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-2
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7158	1.19103	1.2	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	15954	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	16946	1.02822	1.0	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	13076	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0481.D
Date : 28-JUN-2014 17:33
Client ID: FTA-MW-208-061814 Instrument: gcms-s.i
Sample Info: SH4521-2



Katahdin Analytical Services 2000059

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0482.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		118.	%					
Toluene-D8		102.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0482.D
Report Date: 10-Jul-2014 11:13

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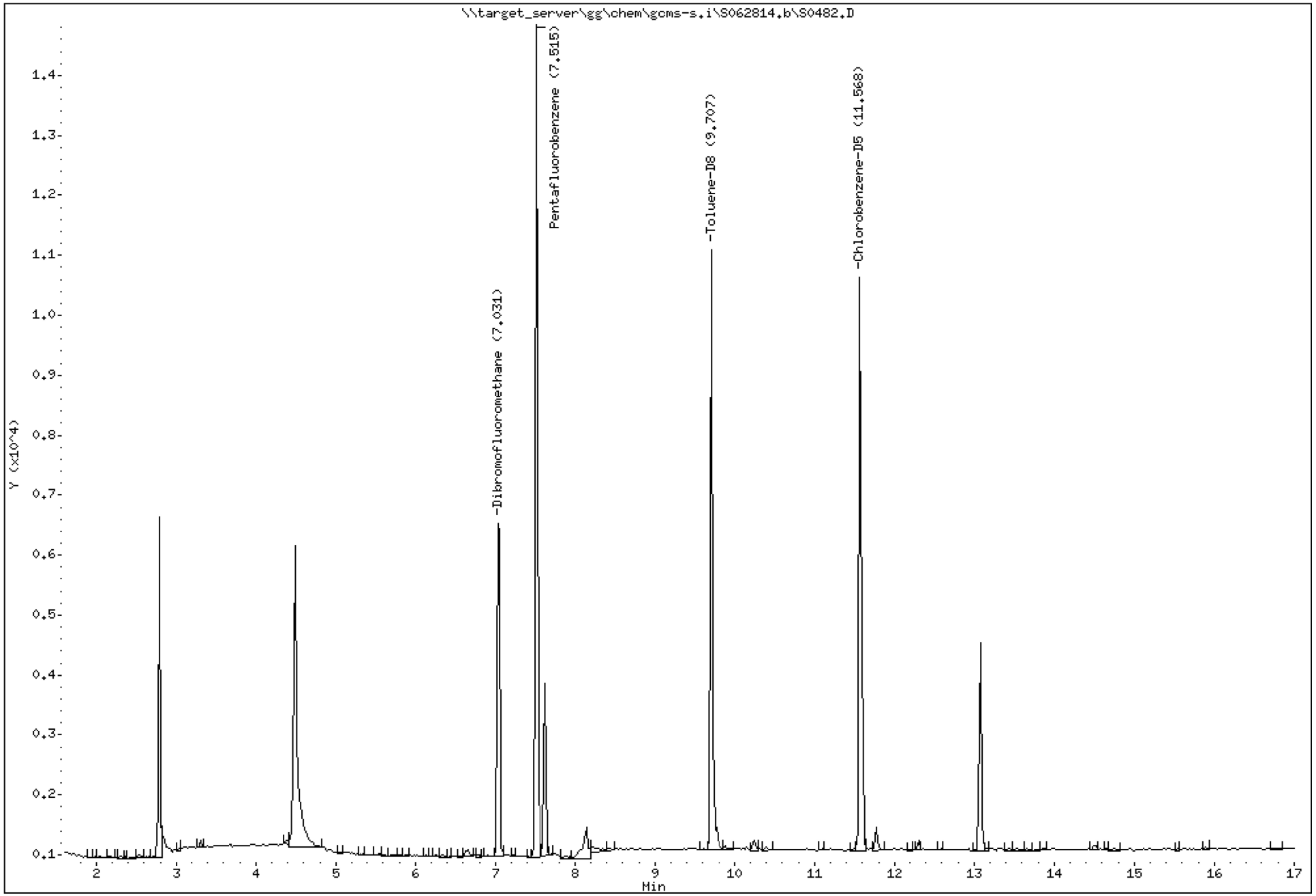
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Lab Smp Id: SH4521-4 Client Smp ID: FTA-MW-1-061814
Inj Date : 28-JUN-2014 18:12 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-4
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7019	1.17831	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15813	1.00000		
$ 22 Toluene-D8	98	9.706	9.708	(0.839)	16187	1.01773	1.0	
* 31 Chlorobenzene-D5	117	11.568	11.569	(1.000)	12619	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0482.D
Date : 28-JUN-2014 18:12
Client ID: FTA-MW-1-061814
Instrument: gcms-s.i
Sample Info: SH4521-4



Katahdin Analytical Services 2000062

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0483.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		121.	%					
Toluene-D8		100.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0483.D
Report Date: 10-Jul-2014 11:13

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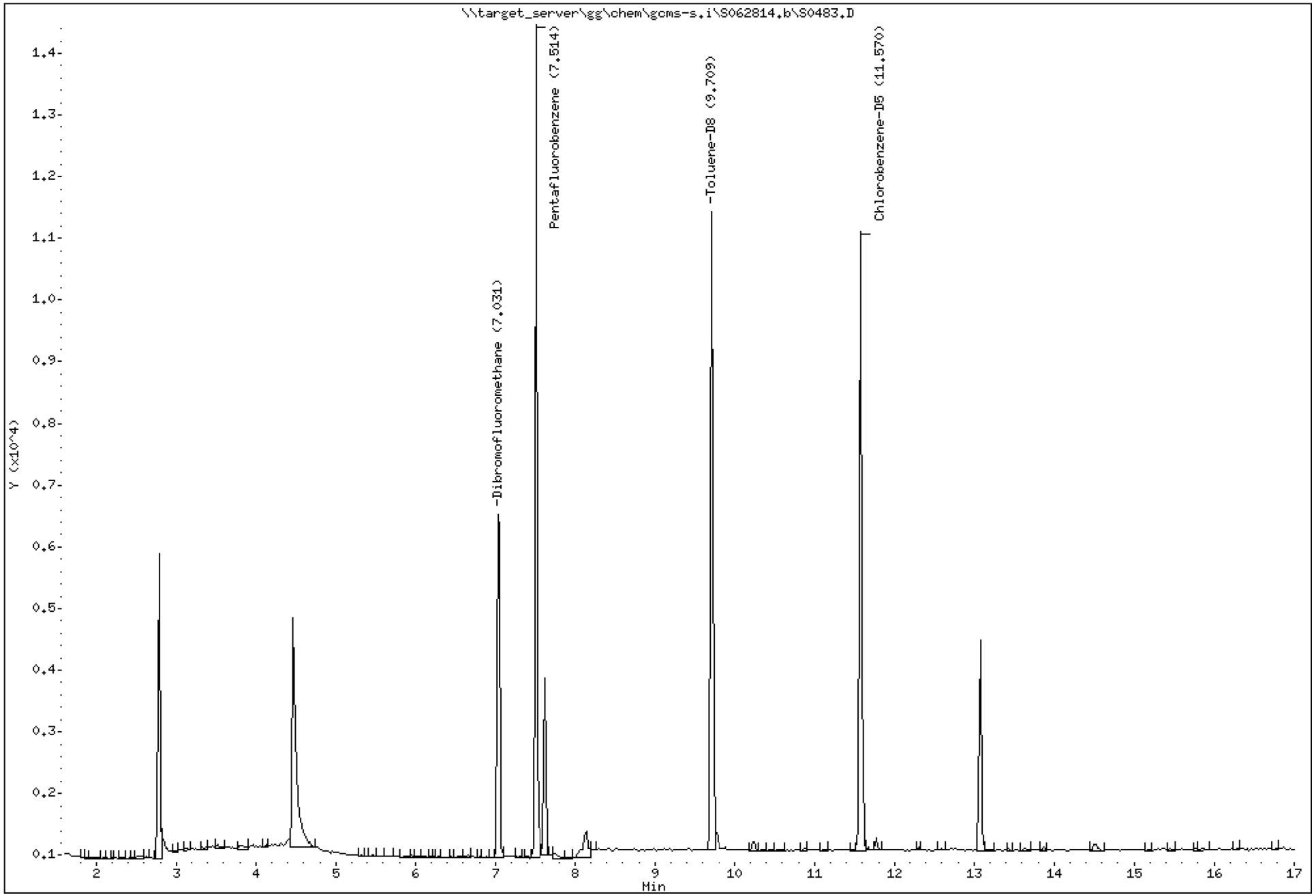
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Lab Smp Id: SH4521-6 Client Smp ID: FTA-GW-DUP02-061814
Inj Date : 28-JUN-2014 18:51 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-6
Misc Info : WG145589,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.051	7.072	(0.938)	6993	1.21363	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15296	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	16192	1.00115	1.0	
* 31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	12832	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0483.D
Date : 28-JUN-2014 18:51
Client ID: FTA-GW-DUP02-061814 Instrument: gcms-s.i
Sample Info: SH4521-6



Katahdin Analytical Services 2000065

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0489.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	J	0.011	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		108.	%					
Toluene-D8		112.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0489.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S063014.b\S0489.D
Lab Smp Id: SH4521-8 Client Smp ID: FTA-MW-210-061814
Inj Date : 30-JUN-2014 10:54 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-8
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

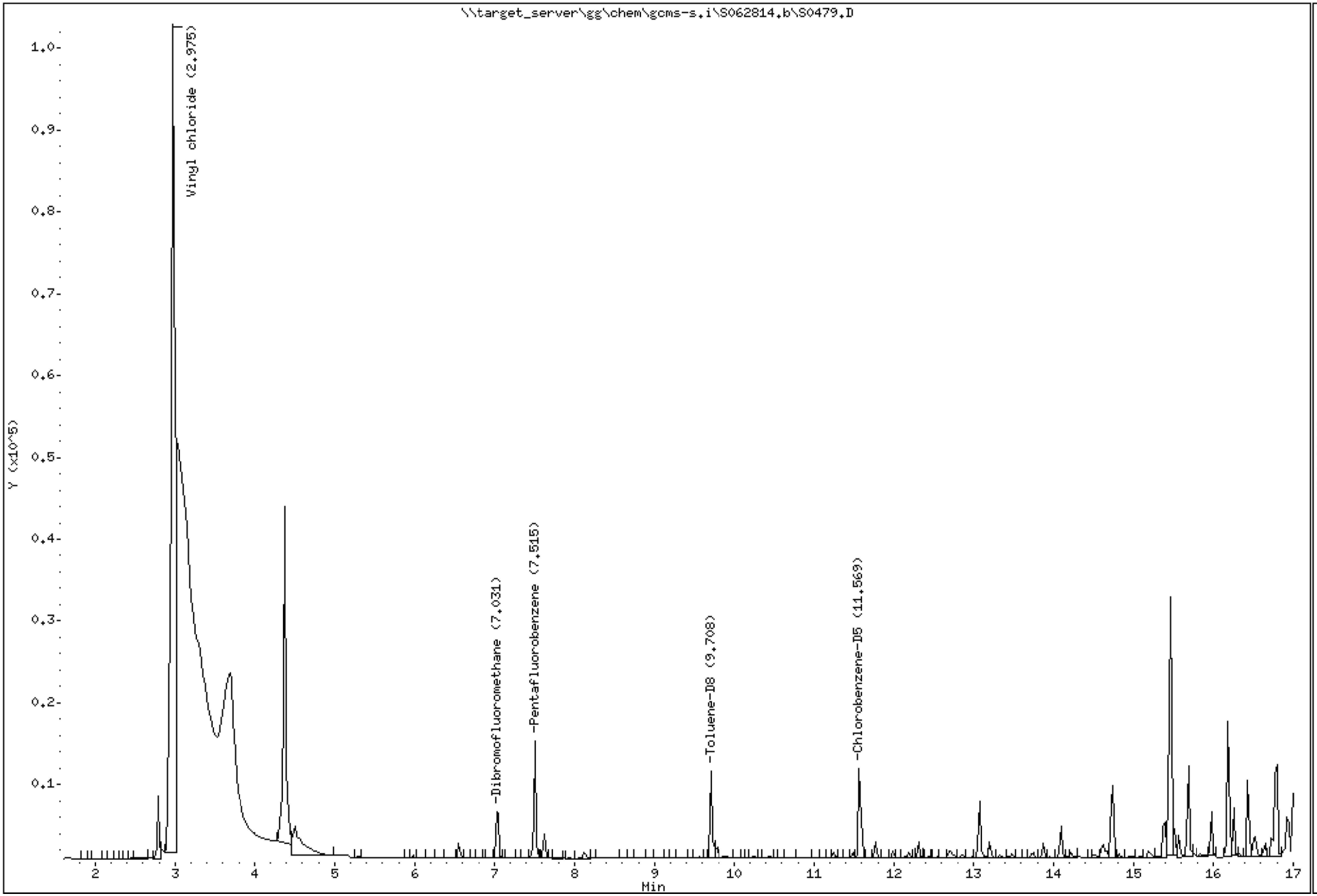
Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	6506	1.08234	1.1	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15957	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	15426	1.11833	1.1	
24 Tetrachloroethene	164	10.253	10.254	(0.886)	382	0.01141	0.011(a)	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	10944	1.00000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0479.D
Date : 28-JUN-2014 16:14
Client ID: FTA-MW-9-061714
Instrument: gcms-s.i
Sample Info: SH4401-2



Katahdin Analytical Services 2000068

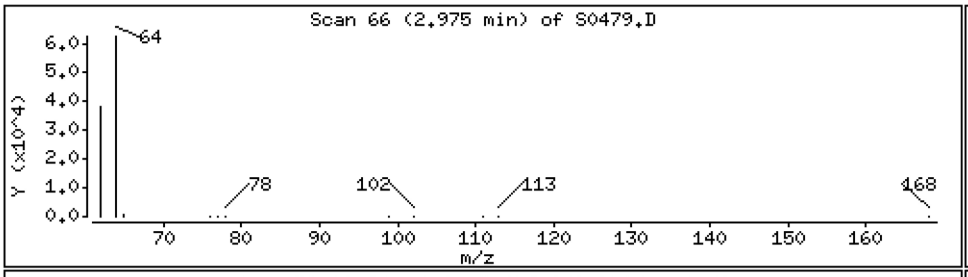
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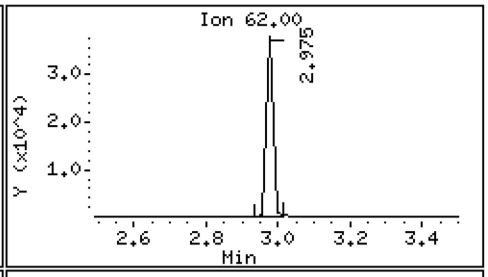
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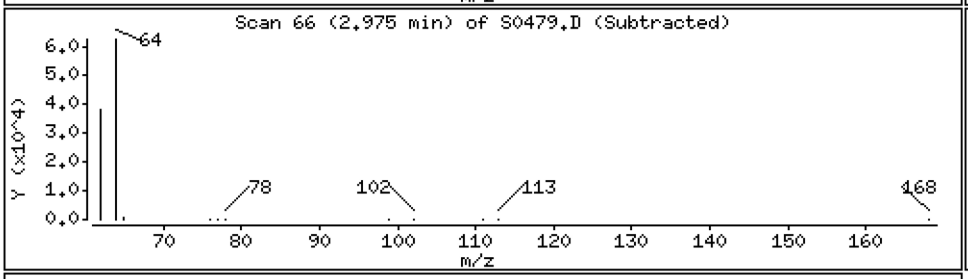
Client ID: FTA-MW-9-061714 Instrument: gcms-s.i

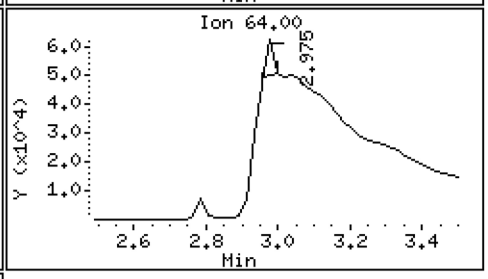
Sample Info: SH4401-2

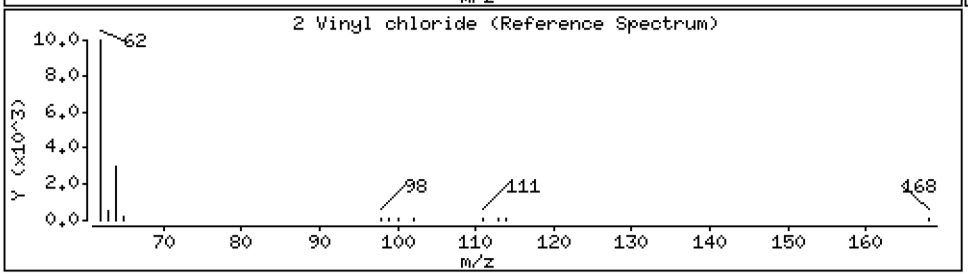
2 Vinyl chloride Concentration: 0.84 ug/l











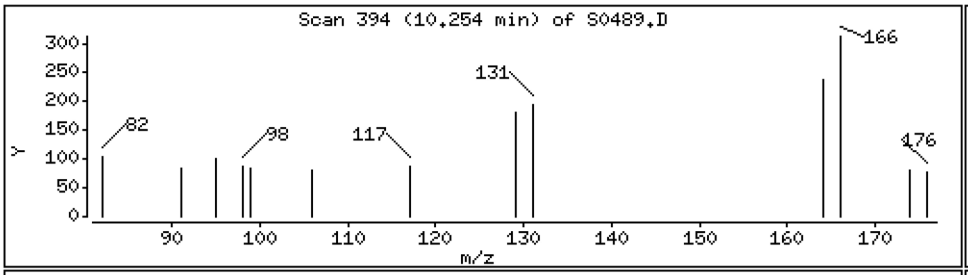
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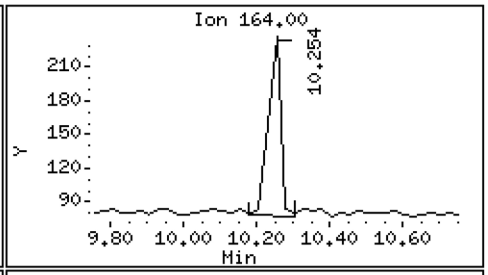
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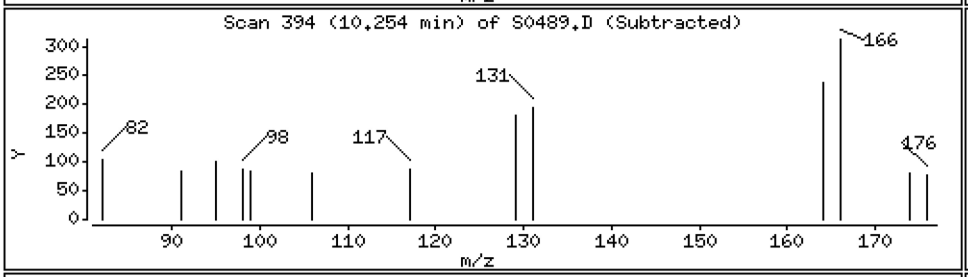
Client ID: FTA-MW-210-061814 Instrument: gcms-s.i

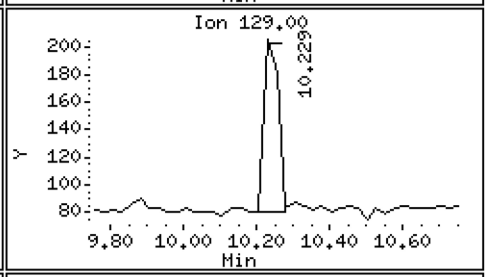
Sample Info: SH4521-8

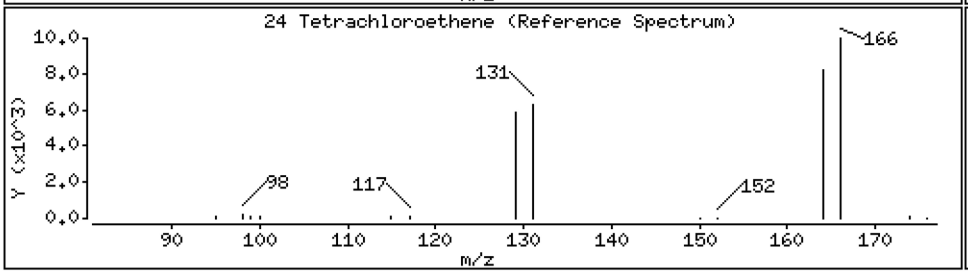
24 Tetrachloroethene Concentration: 0.011 ug/l

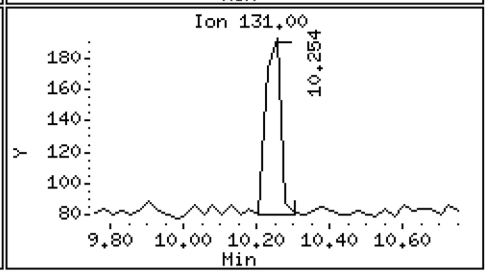












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-10
Client ID: FTA-SW-01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0490.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		118.	%					
Toluene-D8		105.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0490.D
Report Date: 10-Jul-2014 11:14

Katahdin Analytical Services

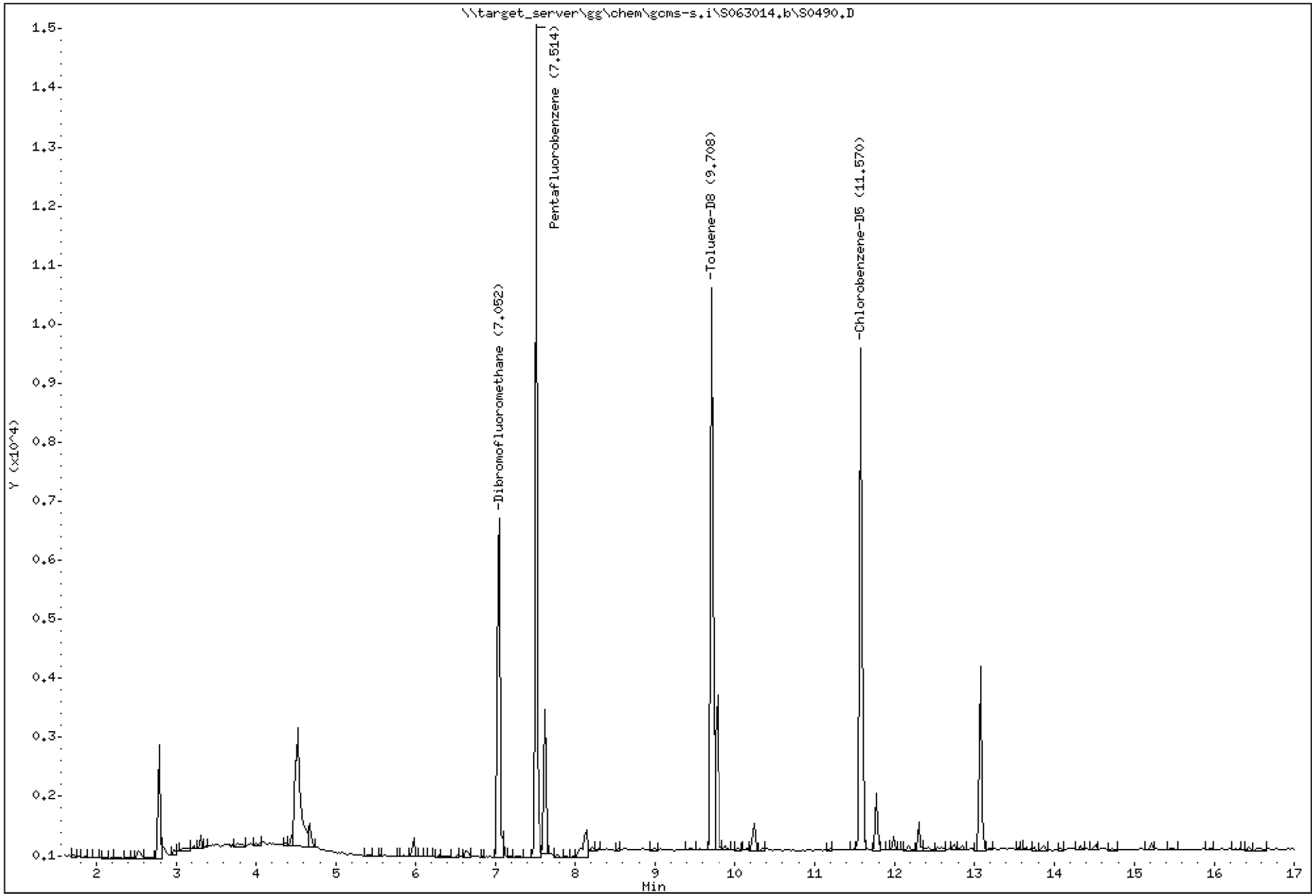
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Lab Smp Id: SH4521-10 Client Smp ID: FTA-SW-01-061914
Inj Date : 30-JUN-2014 11:33 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-10
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7028	1.18005	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15810	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	15787	1.05070	1.0	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	11921	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0490.D
Date : 30-JUN-2014 11:33
Client ID: FTA-SW-01-061914 Instrument: gcms-s.i
Sample Info: SH4521-10



Katahdin Analytical Services 2000073

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-12
Client ID: FTA-SW-02-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0491.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		114.	%					
Toluene-D8		113.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0491.D
Report Date: 10-Jul-2014 10:41

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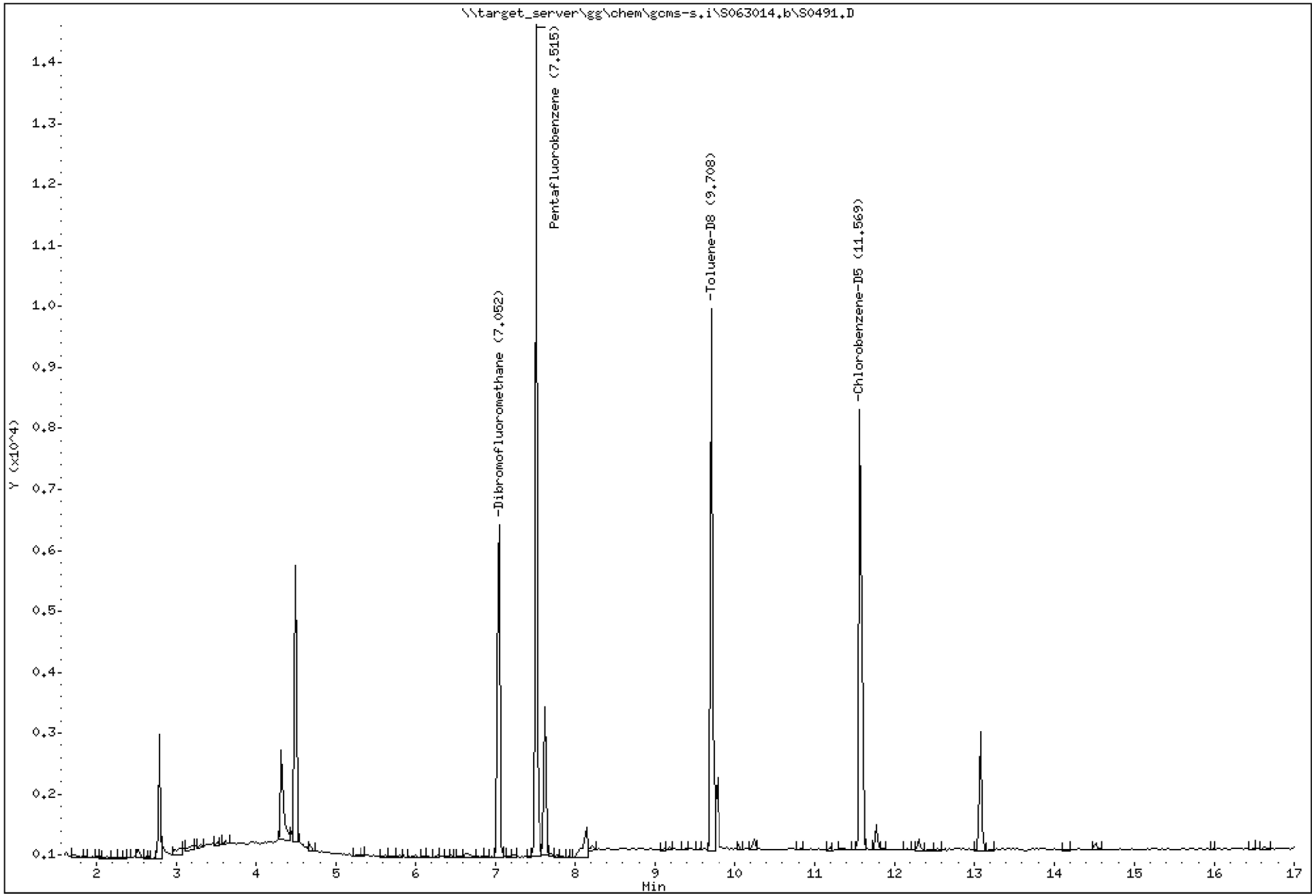
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Lab Smp Id: SH4521-12 Client Smp ID: FTA-SW-02-061914
Inj Date : 30-JUN-2014 12:12 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-12
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	6594	1.13909	1.1	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15367	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	15030	1.13397	1.1	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	10516	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0491.D
Date : 30-JUN-2014 12:12
Client ID: FTA-SW-02-061914
Instrument: gcms-s.i
Sample Info: SH4521-12



Katahdin Analytical Services 2000076

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-14
Client ID: FTA-SW-03-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0492.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		119.	%					
Toluene-D8		96.8	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0492.D
Report Date: 10-Jul-2014 11:14

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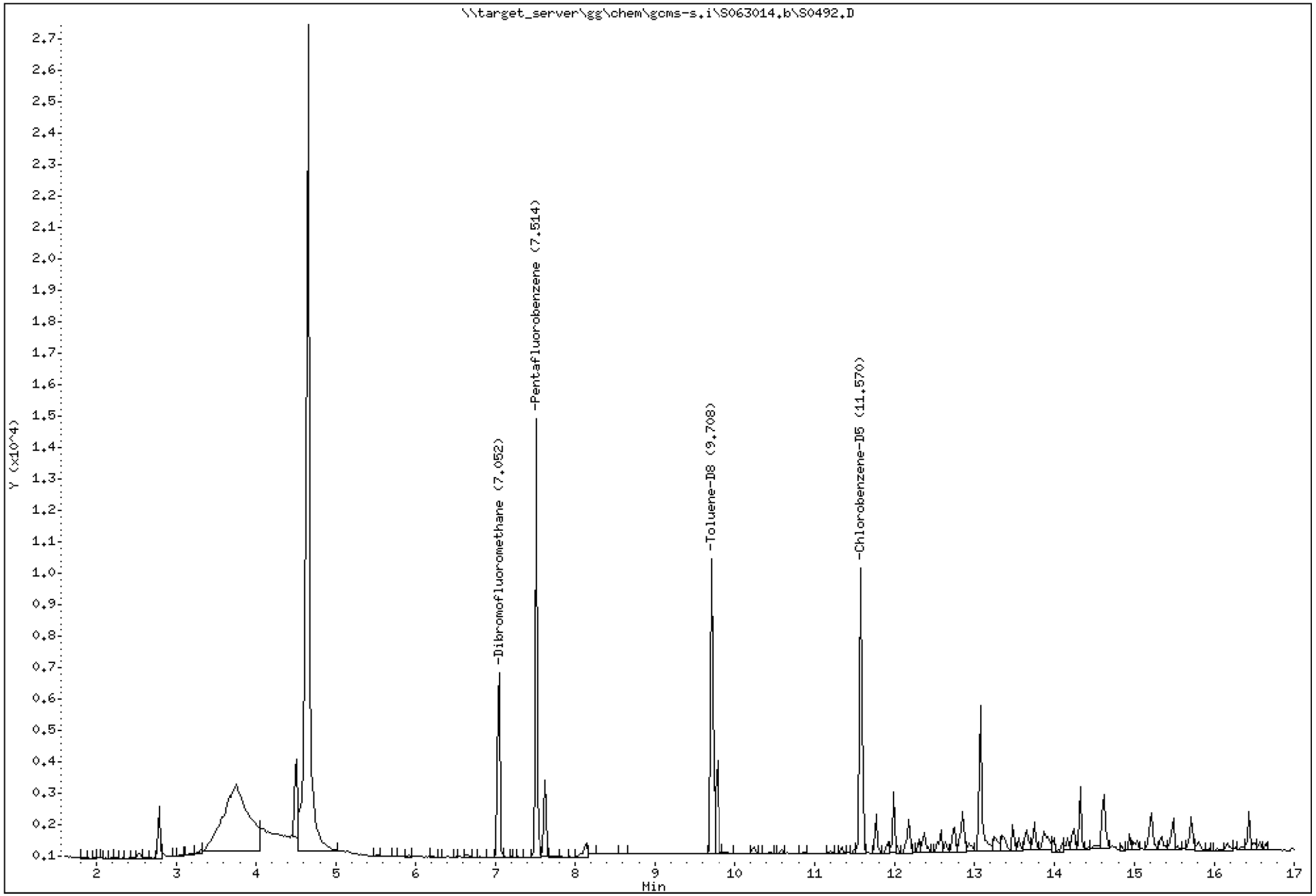
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Lab Smp Id: SH4521-14 Client Smp ID: FTA-SW-03-061914
Inj Date : 30-JUN-2014 12:51 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-14
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.051	7.072	(0.938)	7001	1.19073	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15608	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	15672	0.96855	0.97	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	12838	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0492.D
Date : 30-JUN-2014 12:51
Client ID: FTA-SW-03-061914 Instrument: gcms-s.i
Sample Info: SH4521-14



Katahdin Analytical Services 2000079

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0493.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		118.	%					
Toluene-D8		104.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0493.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

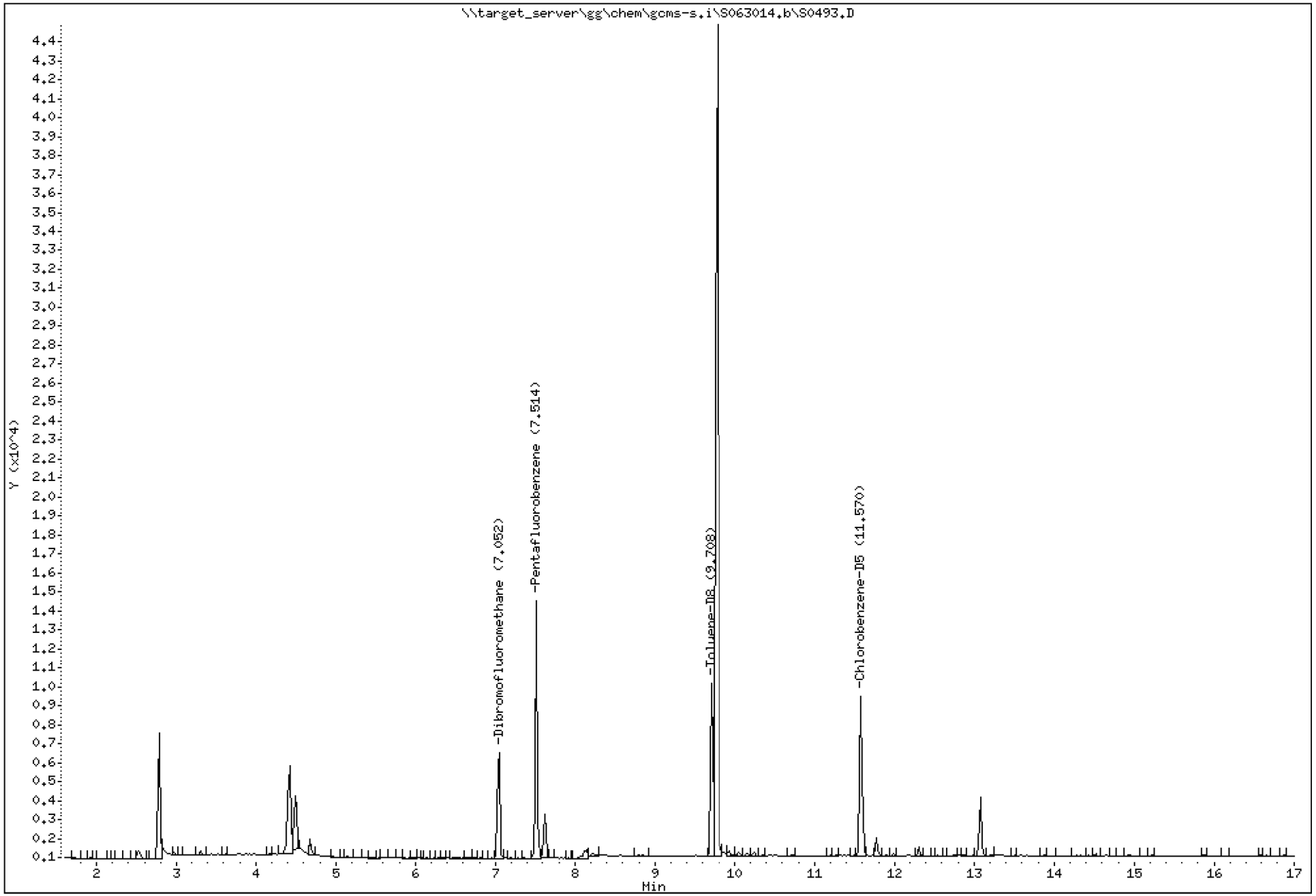
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Lab Smp Id: SH4521-16 Client Smp ID: FTA-SW-06-061914
Inj Date : 30-JUN-2014 13:30 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-16
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.051	7.072	(0.938)	6760	1.17982	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15210	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	15277	1.03765	1.0	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	11681	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0493.D
Date : 30-JUN-2014 13:30
Client ID: FTA-SW-06-061914 Instrument: gcms-s.i
Sample Info: SH4521-16



Katahdin Analytical Services 2000082

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0494.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		116.	%					
Toluene-D8		87.6	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0494.D
Report Date: 10-Jul-2014 10:41

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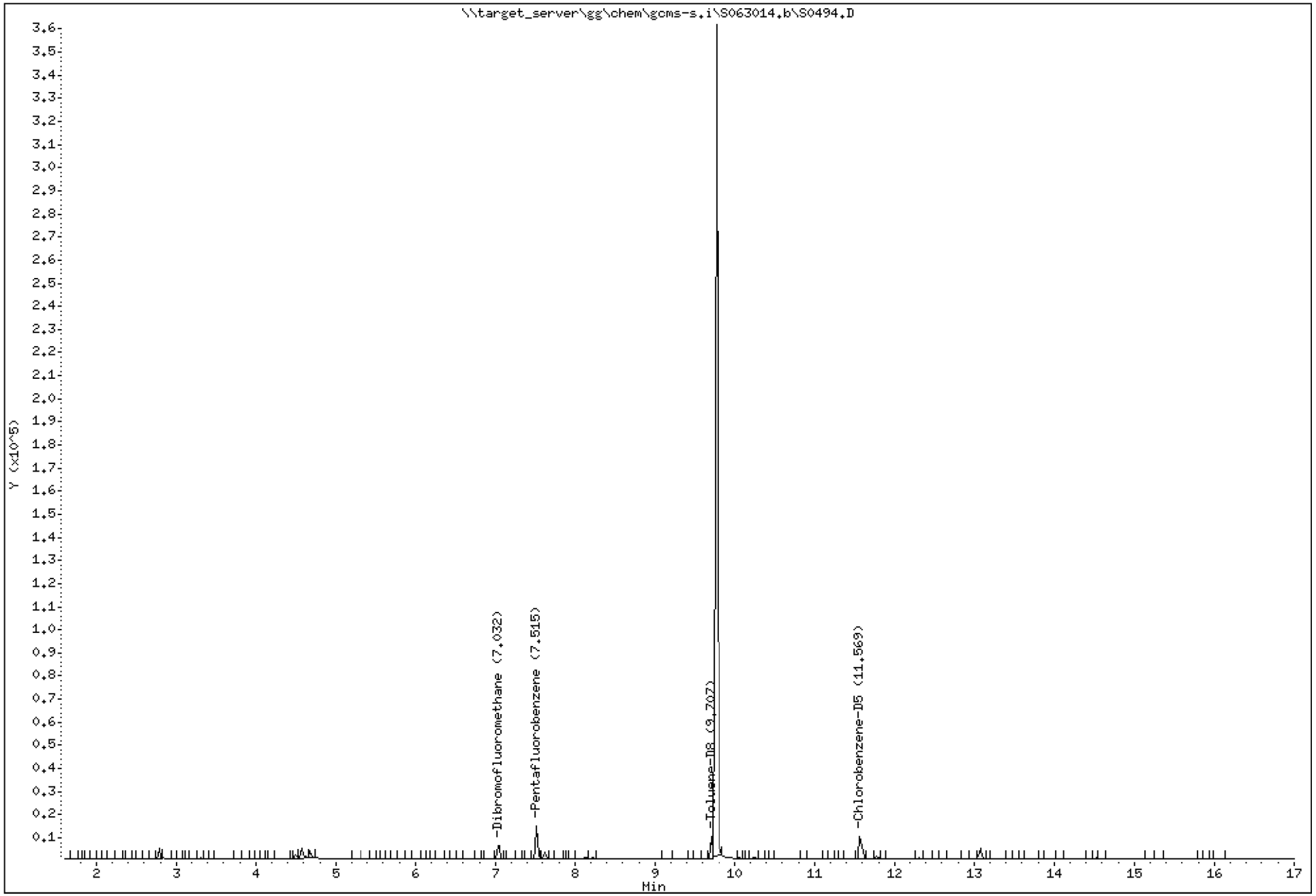
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Lab Smp Id: SH4521-18 Client Smp ID: FTA-SW-07-061914
Inj Date : 30-JUN-2014 14:08 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-18
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7100	1.15793	1.2	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	16277	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.837)	15996	0.87556	0.88	
* 31 Chlorobenzene-D5	117	11.593	11.569	(1.000)	14495	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0494.D
Date : 30-JUN-2014 14:08
Client ID: FTA-SW-07-061914 Instrument: gcms-s.i
Sample Info: SH4521-18



Katahdin Analytical Services 2000085

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0495.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		116.	%					
Toluene-D8		104.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0495.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

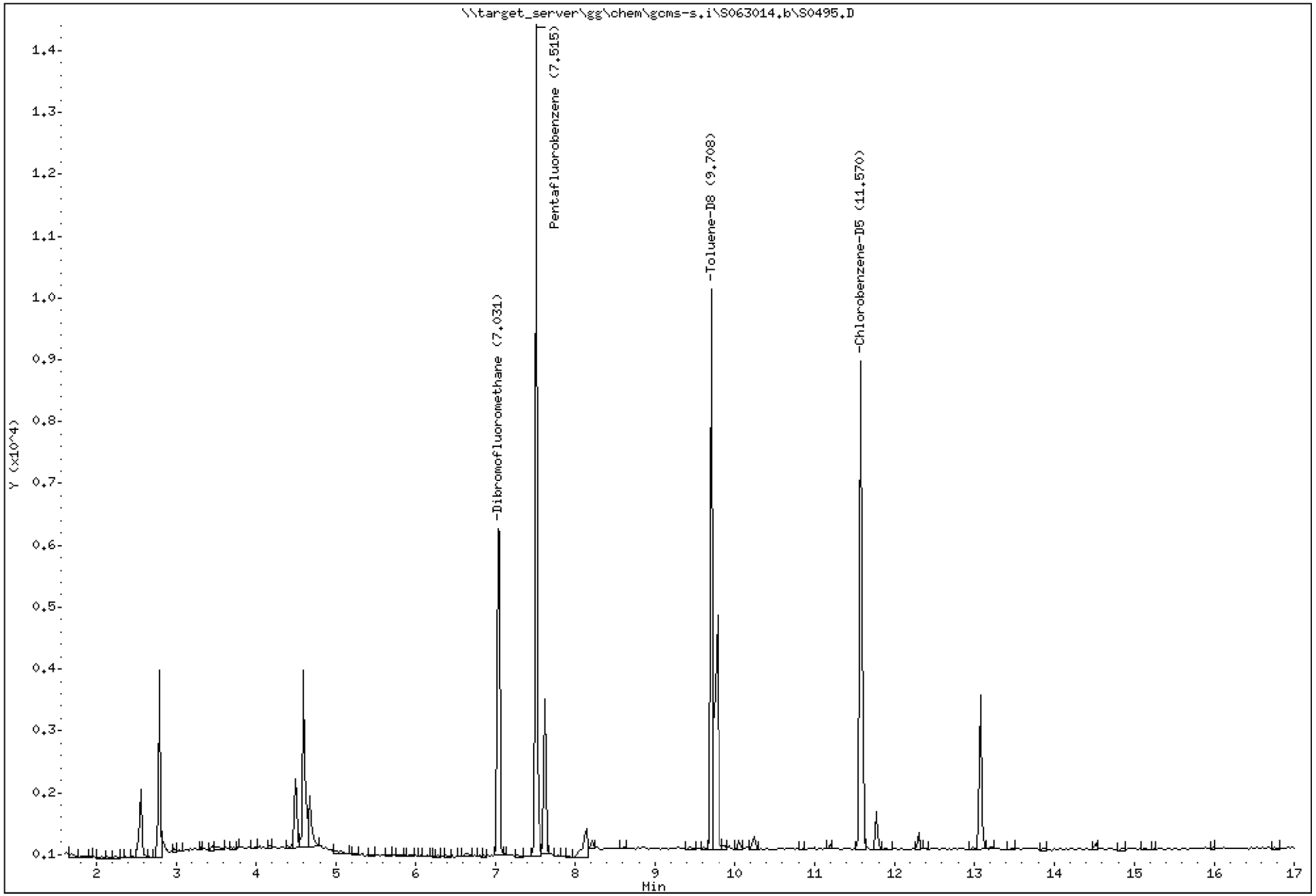
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Inj Date : 30-JUN-2014 14:47 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-20
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	6699	1.16245	1.2	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15298	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	14957	1.04416	1.0	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	11365	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0495.D
Date : 30-JUN-2014 14:47
Client ID: FTA-SW-08-061914
Instrument: gcms-s.i
Sample Info: SH4521-20



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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: S0496.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		115.	%					
Toluene-D8		98.5	%					

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P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0496.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

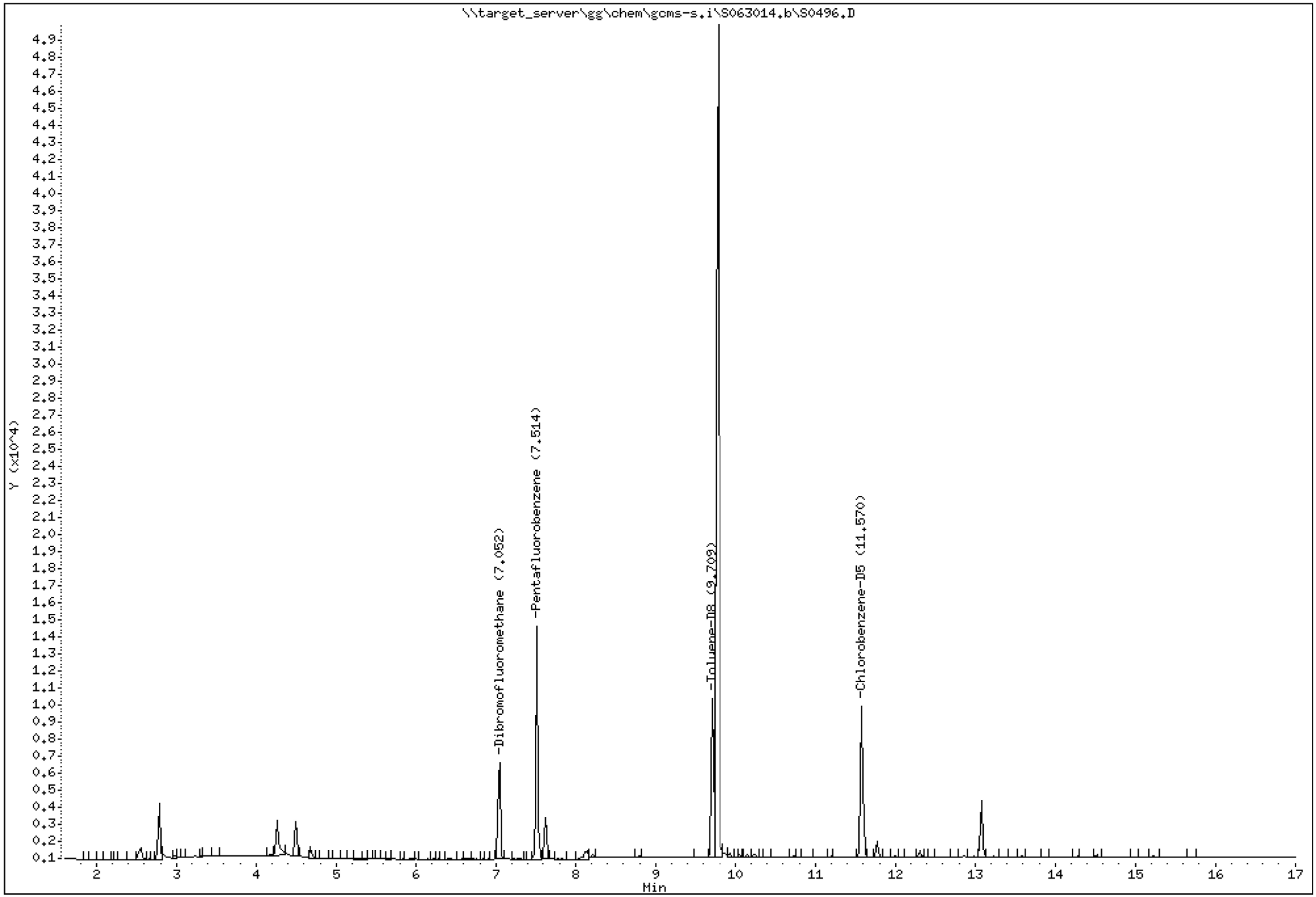
Data file : \\target_server\gg\chem\gcms-s.i\S063014.b\S0496.D
Lab Smp Id: SH4521-22 Client Smp ID: FTA-SW-DUP01-061914
Inj Date : 30-JUN-2014 15:26 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : SH4521-22
Misc Info : WG145683,WG145721-3
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.051	7.072	(0.938)	6641	1.14714	1.1	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	15368	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	15352	0.98514	0.98	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	12364	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0496.D
Date : 30-JUN-2014 15:26
Client ID: FTA-SW-DUP01-061914 Instrument: gcms-s.i
Sample Info: SH4521-22



Katahdin Analytical Services 2000091

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-S
Lab File IDs : S0456.D S0455.D S0453.D S0452.D S0458.D S0457.D
Column ID:
Calibration Date(s): 27-JUN-14 10:40, 27-JUN-14 14:33

	0.0500000 Level 1	0.0750000 Level 2	0.1000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Vinyl chloride	4.13227	4.03505	3.51013	3.38049	3.56828	3.53051	AVG		3.69279		8.41670	15.00000	O
Tetrachloroethene	3.55461	2.55393	2.89706	2.57286	2.91769	3.01144	AVG		2.91793		12.5087(	15.00000	O
Dibromofluoromethane	0.40496	0.39907	0.38119	0.35111	0.35574	0.35535	AVG		0.37457		6.36484	15.00000	
Toluene-D8	1.32148	1.33027	1.26594	1.21413	1.26897	1.17340	AVG		1.26237		4.80601	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0467A.D
Report Date: 10-Jul-2014 09:18

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG145589
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG145589-5 Client Smp ID: Independent Source
Level: LOW Operator: DJP
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECKSIM.spk Quant Type: ISTD
Sublist File: SW8260SIM-S.sub
Method File: \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Misc Info: WG145589,WG145589-3,SH4401-12

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
2 Vinyl chloride	0.50	0.47	93.33	80-120
24 Tetrachloroethene	0.50	0.42	84.69	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 11 Dibromofluorometha	1.0	1.0	100.49	70-130
$ 22 Toluene-D8	1.0	0.90	90.49	70-130

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0452.D
Report Date: 10-Jul-2014 13:15

Katahdin Analytical Services

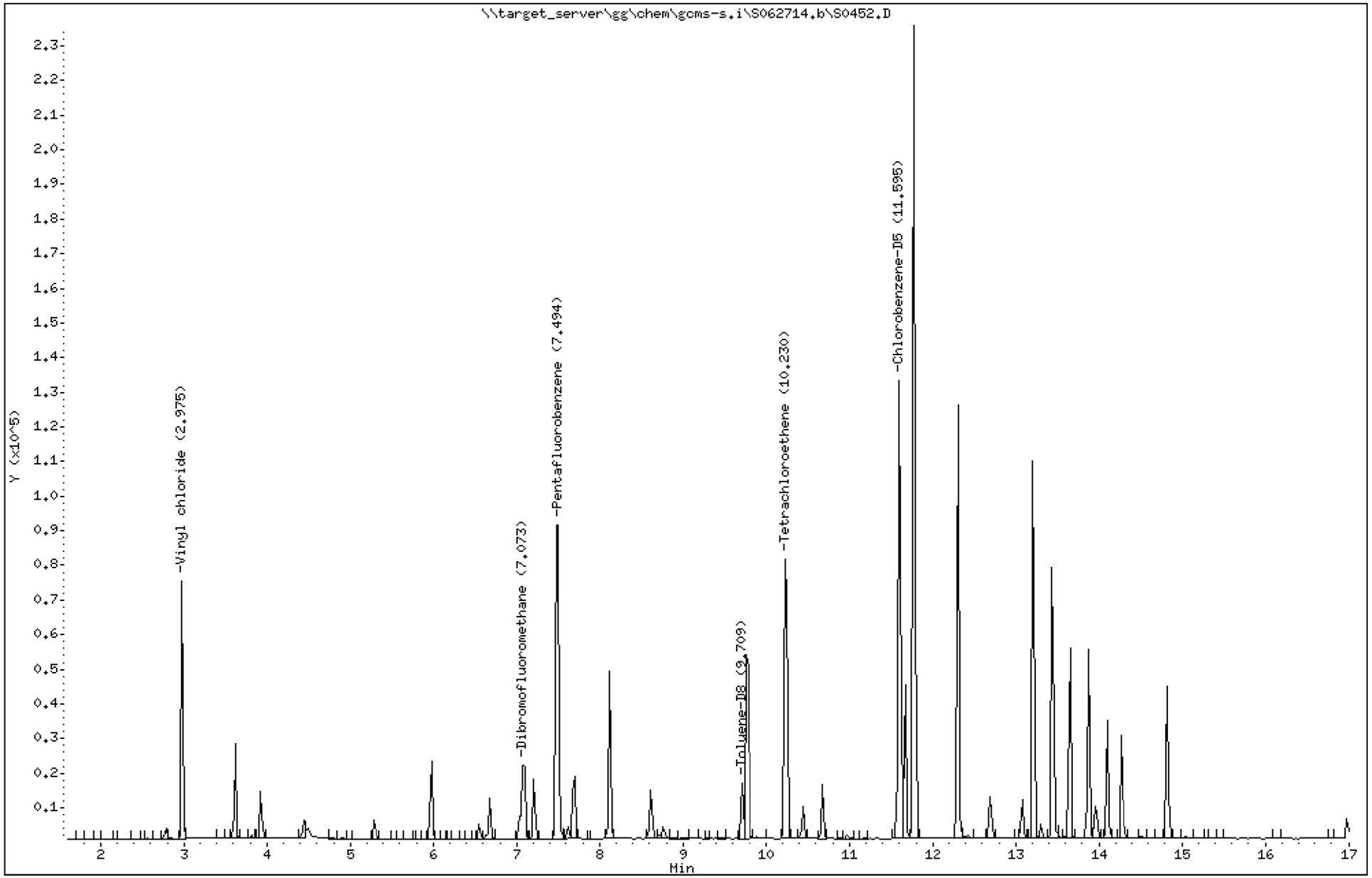
Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0452.D
Lab Smp Id: WG145721-4 Client Smp ID: Initial Calibration
Inj Date : 27-JUN-2014 10:40
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 13:15 gcms-s.i Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	74800	1.00000	0.92	
$	11 Dibromofluoromethane	113	7.031	7.072	(0.936)	7769	1.00000	0.94	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	22127	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	24863	1.00000	0.96	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	52687	1.00000	0.88	
*	31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	20478	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0452.D
Date : 27-JUN-2014 10:40
Client ID: Initial Calibration
Instrument: gcms-s.i
Sample Info: WG145721-4
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000096

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0453.D
Report Date: 10-Jul-2014 12:04

Katahdin Analytical Services

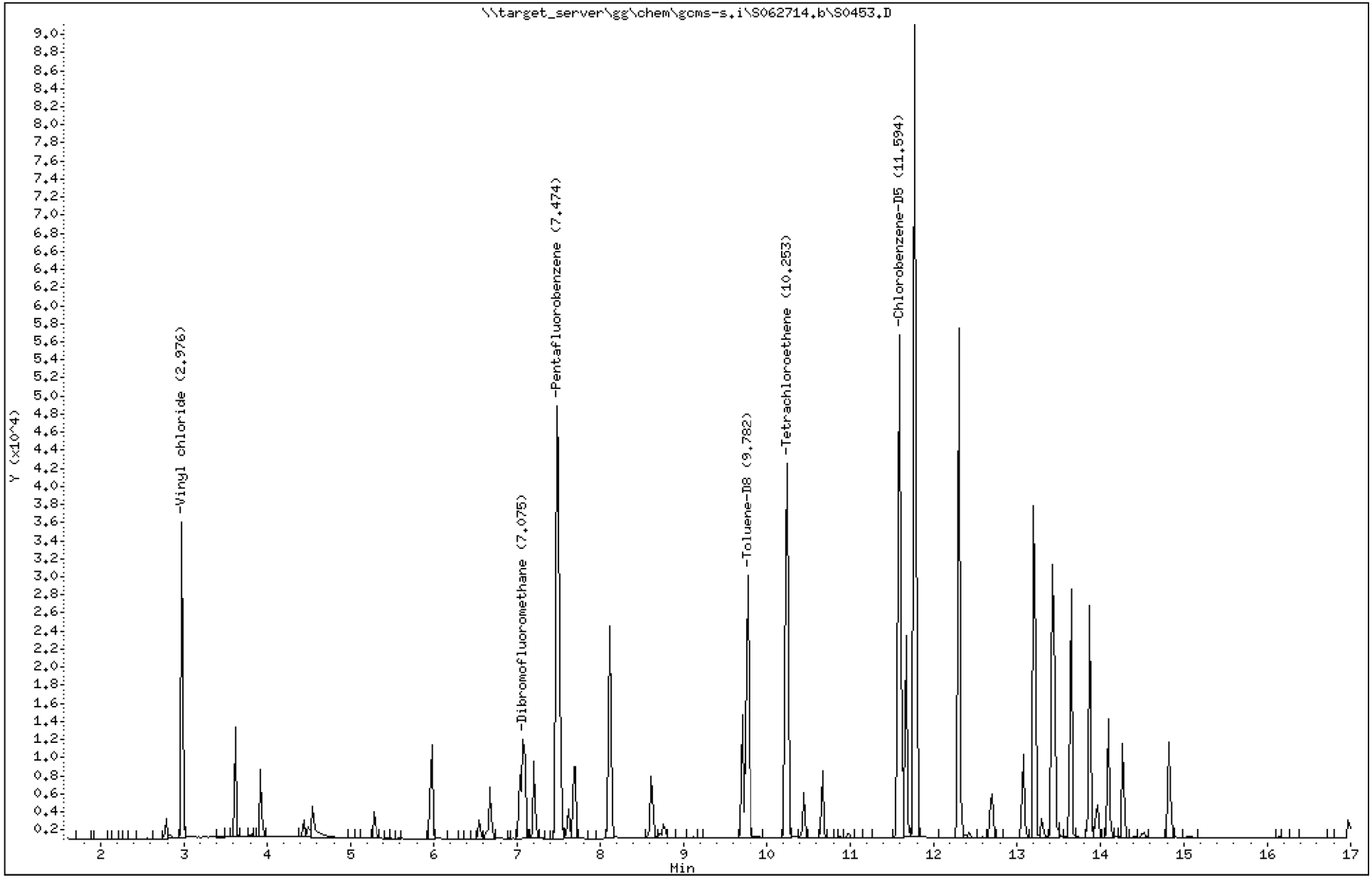
Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0453.D
Lab Smp Id: WG145721-3 Client Smp ID: Initial Calibration
Inj Date : 27-JUN-2014 11:19
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-3
Misc Info : SW846 M8260B SIM
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 12:04 djpaul Quant Type: ISTD
Cal Date : 25-JUN-2014 11:44 Cal File: S0455.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.976	2.994	(0.396)	34559	0.50000	0.52	
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7506	1.00000	1.1	
* 14 Pentafluorobenzene	168	7.516	7.534	(1.000)	19691	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	22235	1.00000	1.0	
24 Tetrachloroethene	164	10.253	10.254	(0.886)	25442	0.50000	0.56	
* 31 Chlorobenzene-D5	117	11.568	11.569	(1.000)	17564	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0453.D
Date : 27-JUN-2014 11:19
Client ID: Initial Calibration
Instrument: gcms-s.i
Sample Info: WG145721-3
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000098

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0455.D
Report Date: 10-Jul-2014 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0455.D
Lab Smp Id: WG145721-2
Inj Date : 27-JUN-2014 12:36 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 12:04 djpaul Quant Type: ISTD
Cal Date : 25-JUN-2014 13:03 Cal File: S0457.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

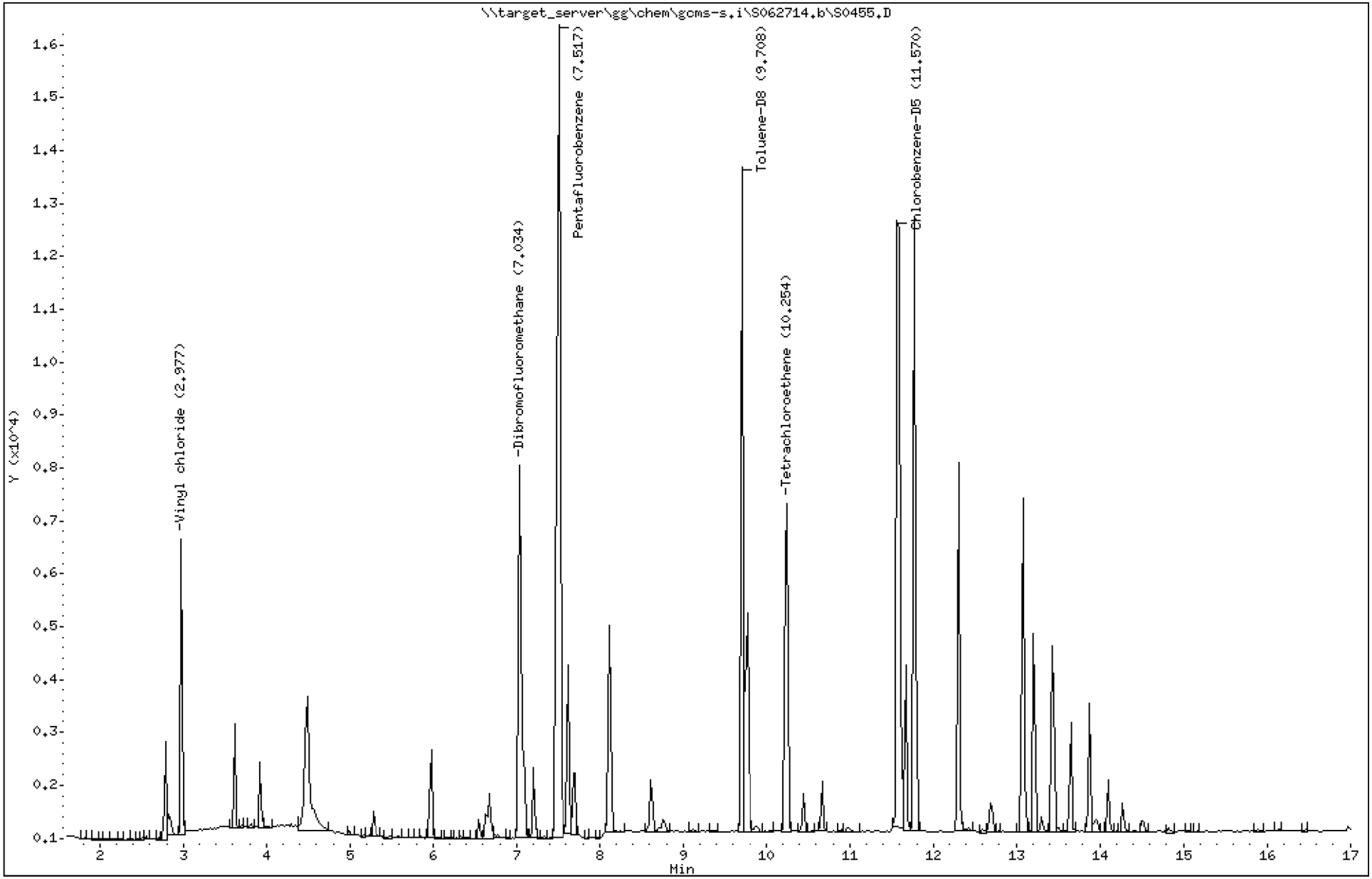
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.977	2.994	(0.396)	5526	0.07500	0.016(a)	
$ 11 Dibromofluoromethane	113	7.033	7.072	(0.936)	7287	1.00000	1.1	
* 14 Pentafluorobenzene	168	7.517	7.534	(1.000)	18260	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	20413	1.00000	1.1	
24 Tetrachloroethene	164	10.254	10.254	(0.886)	3919	0.10000	0.093	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15345	1.00000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0455.D
Date : 27-JUN-2014 12:36
Client ID:
Sample Info: WG145721-2
Purge Volume: 25.0
Column phase: RTX-VMS

Instrument: gcms-s.i
Operator: DJP
Column diameter: 0.18



Katahdin Analytical Services 2000100

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0456.D
Report Date: 10-Jul-2014 13:15

Katahdin Analytical Services

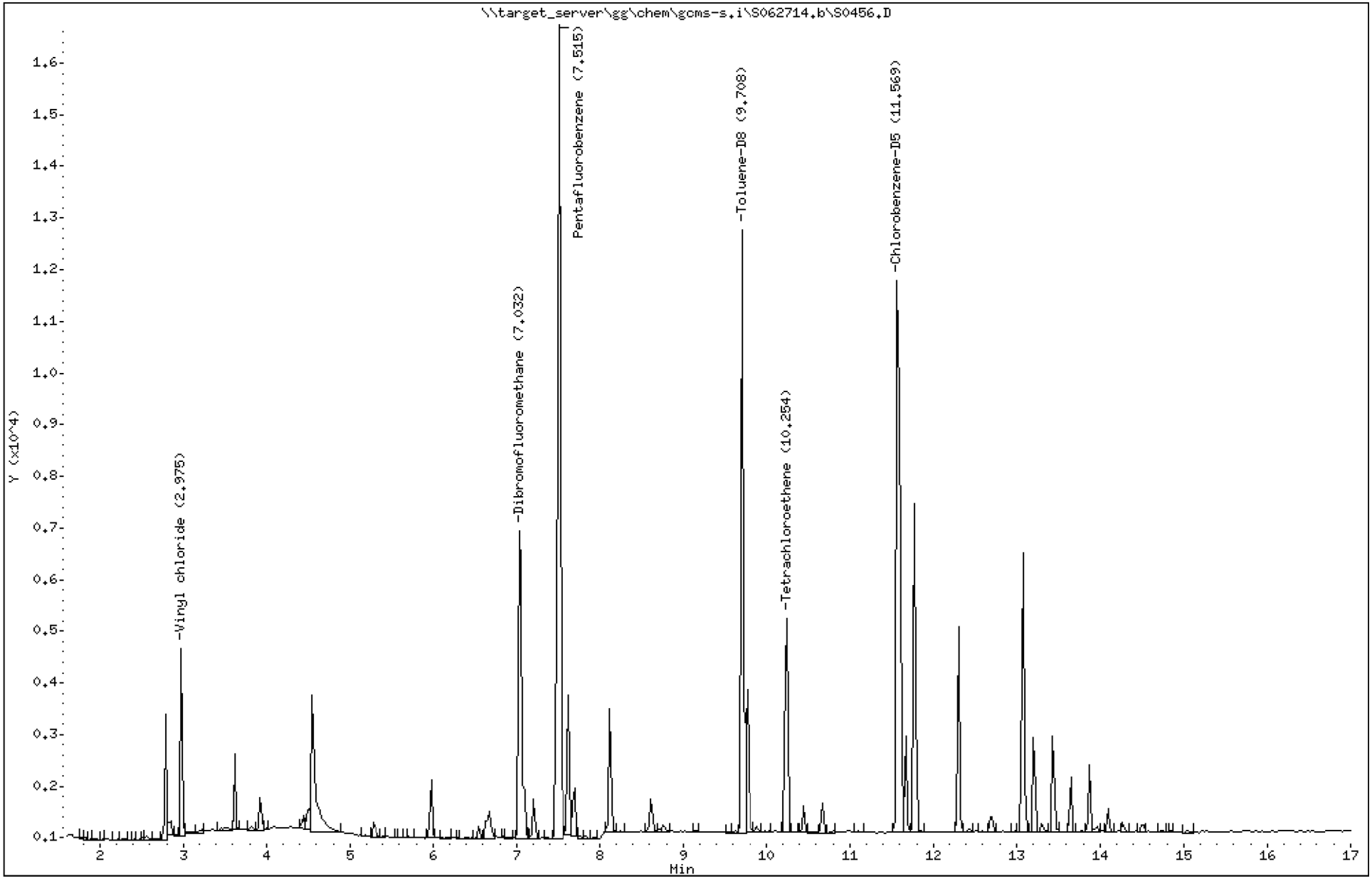
Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0456.D
Lab Smp Id: WG145721-1 Client Smp ID: Initial Calibration
Inj Date : 27-JUN-2014 13:15 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-1
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 13:15 gcms-s.i Quant Type: ISTD
Cal Date : 27-JUN-2014 12:36 Cal File: S0455.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	3649	0.05000	0.056	
$	11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7152	1.00000	1.1	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	17661	1.00000		
$	22 Toluene-D8	98	9.707	9.708	(0.839)	19250	1.00000	1.0	
	24 Tetrachloroethene	164	10.253	10.254	(0.886)	2589	0.05000	0.061	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	14567	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0456.D
Date : 27-JUN-2014 13:15
Client ID: Initial Calibration
Instrument: gcms-s.i
Sample Info: WG145721-1
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000102

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0457.D
Report Date: 10-Jul-2014 12:04

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0457.D
Lab Smp Id: WG145721-6 Client Smp ID: Initial Calibration
Inj Date : 27-JUN-2014 13:54 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-6
Misc Info : SW846 M8260B SIM
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 12:04 djpaul Quant Type: ISTD
Cal Date : 25-JUN-2014 10:26 Cal File: S0453.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

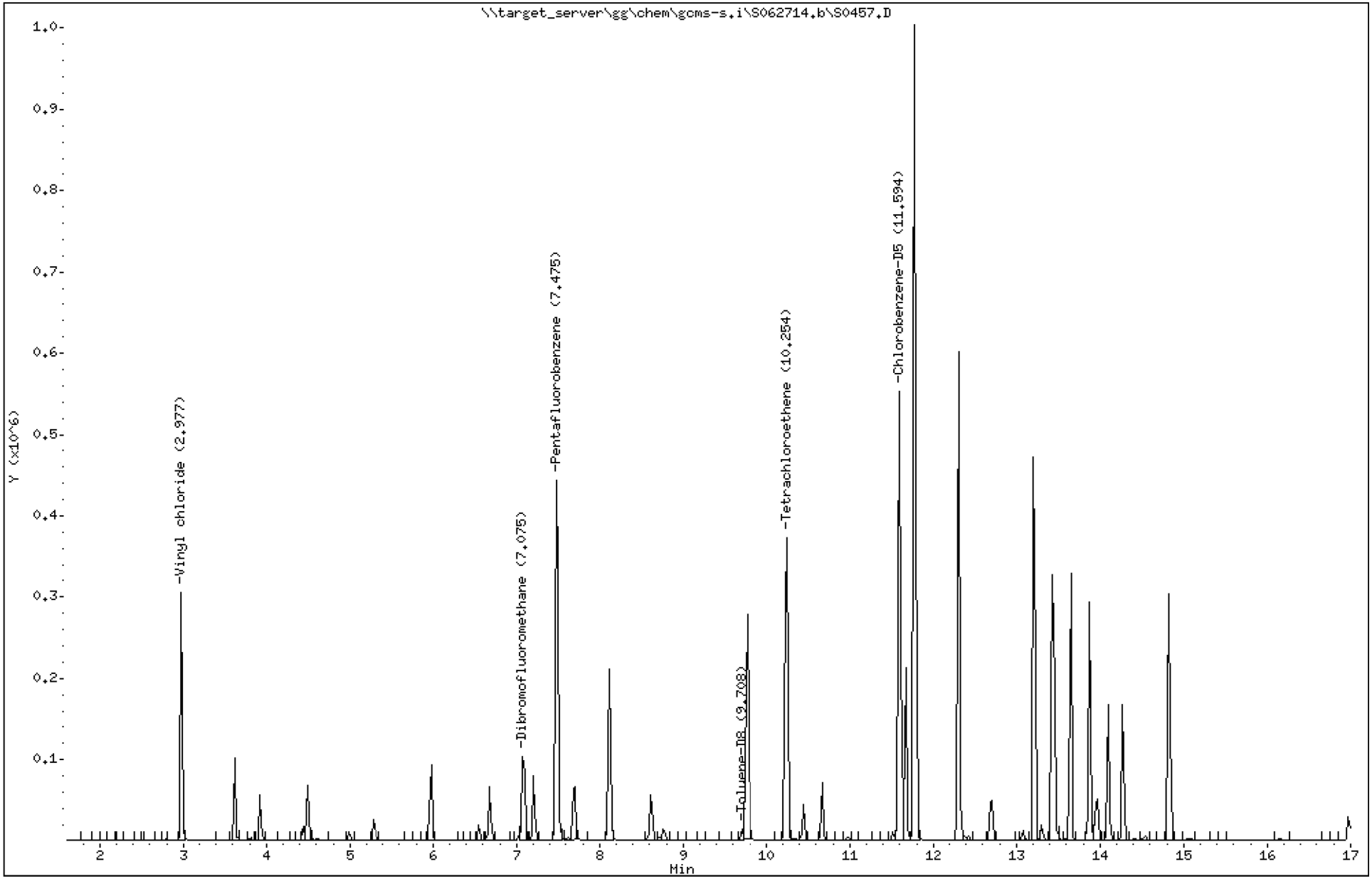
Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.976	2.994	(0.396)	304415	4.00000	1.2	
$ 11 Dibromofluoromethane	113	7.033	7.072	(0.936)	7660	1.00000	0.92	
* 14 Pentafluorobenzene	168	7.516	7.534	(1.000)	21556	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	22839	1.00000	0.91	
24 Tetrachloroethene	164	10.253	10.254	(0.886)	234459	4.00000	4.2(A)	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	19464	1.00000		

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0457.D
Date : 27-JUN-2014 13:54
Client ID: Initial Calibration
Instrument: gcms-s.i
Sample Info: WG145721-6
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000104

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0458.D
Report Date: 10-Jul-2014 12:04

Katahdin Analytical Services

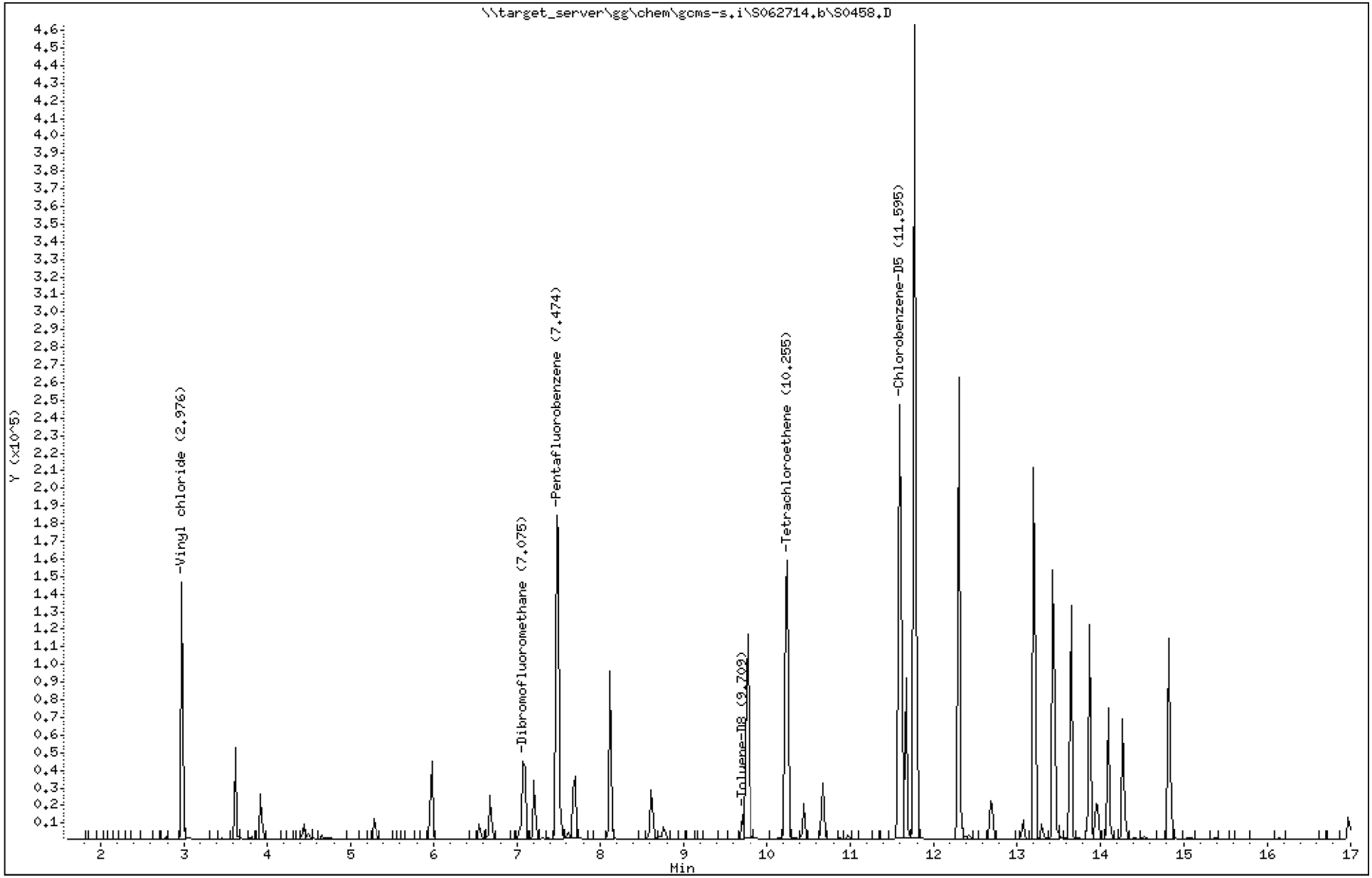
Data file : \\target_server\gg\chem\gcms-s.i\S062714.b\S0458.D
Lab Smp Id: WG145721-5 Client Smp ID: Initial Calibration
Inj Date : 27-JUN-2014 14:33 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145721-5
Misc Info : SW846 M8260B SIM
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062714.b\SSIMVP05.m
Meth Date : 10-Jul-2014 12:04 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.975	2.994	(0.396)	146528	2.00000	0.71	
$ 11 Dibromofluoromethane	113	7.032	7.072	(0.936)	7304	1.00000	0.94	
* 14 Pentafluorobenzene	168	7.515	7.534	(1.000)	20532	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	22641	1.00000	1.0	
24 Tetrachloroethene	164	10.254	10.254	(0.886)	104115	2.00000	2.0	
* 31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	17842	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\S0458.D
Date : 27-JUN-2014 14:33
Client ID: Initial Calibration
Instrument: gcms-s.i
Sample Info: WG145721-5
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000106

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0467A.D
Report Date: 10-Jul-2014 09:18

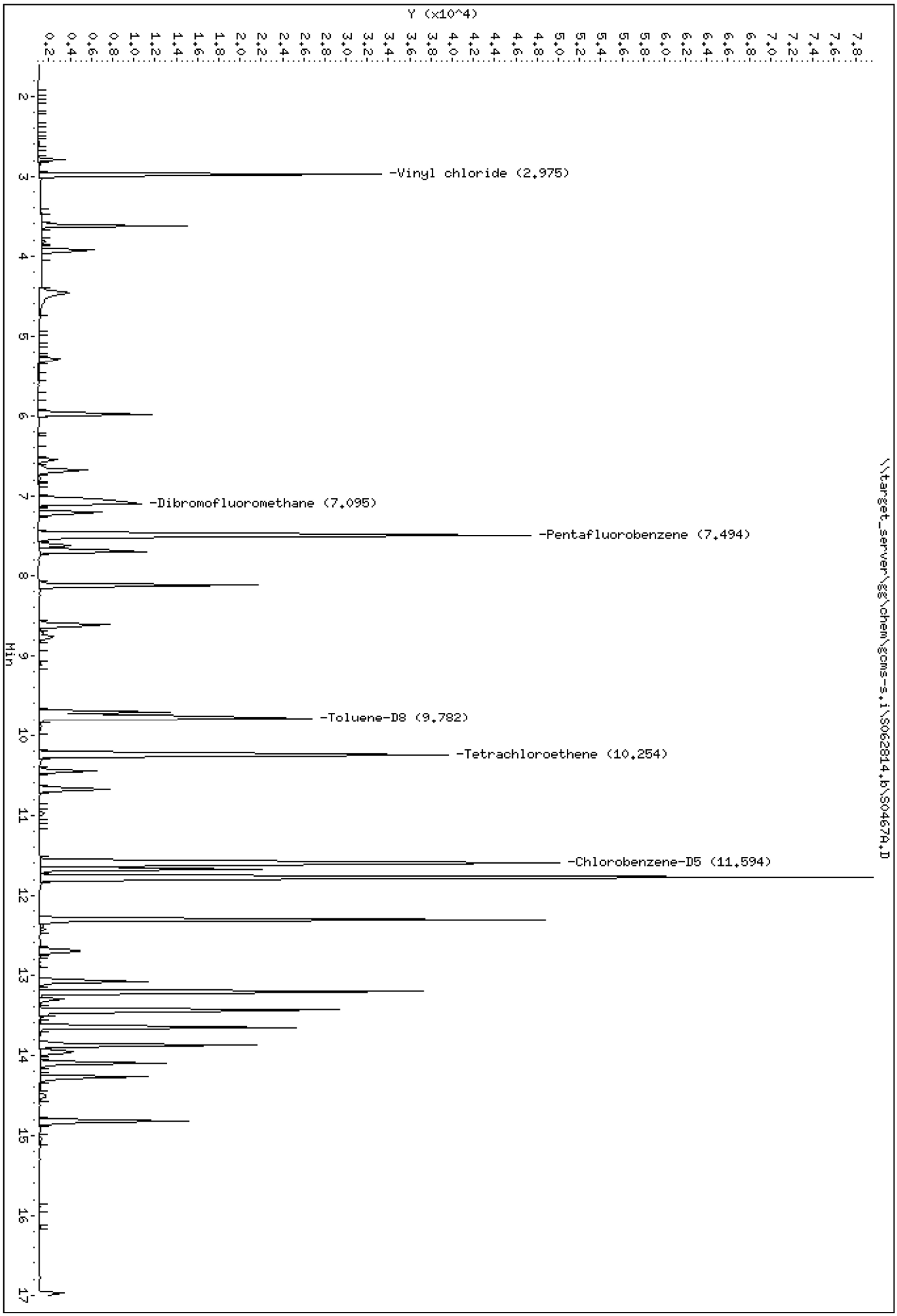
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-s.i\S062814.b\S0467A.D
Lab Smp Id: WG145589-5 Client Smp ID: Independent Source
Inj Date : 28-JUN-2014 08:22 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145589-5,WE53-7
Misc Info : WG145589,WG145589-3,SH4401-12
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260SIM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.974	2.994	(0.396)	33833	0.46666	0.47	
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7432	1.00489	1.0	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	19633	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	20436	0.90490	0.90	
24 Tetrachloroethene	164	10.253	10.254	(0.886)	23216	0.42345	0.42	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	17918	1.00000		


Y (x10^4)
Min
-Vinyl chloride (2.975)
-Dibromofluoromethane (7.095)
-Pentafluorobenzene (7.494)
-Toluene-D8 (9.782)
-Tetrachloroethene (10.254)
-Chlorobenzene-D5 (11.594)
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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0467A.D
Date : 28-JUN-2014 08:22
Client ID: Independent Source
Sample Info: WG145589-5,WE53-7
Instrument: gcms-s.i

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 FTA
SDG: WE53-7
Lab ID : WG145589-4
Analytical Date: 06/28/14 07:33
Lab File ID : S0466.D
Instrument ID: GCMS-S
Initial Calibration Date(s): 06/27/14 10:40 06/27/14 14:33
Column ID:

	Compound	$\overline{RRF}$/Amount	RF0.500	CCAL RRF	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Vinyl chloride	3.69279	3.64595	0.010	-1.2682	20.00000	Averaged	
24	Tetrachloroethene	3.05982	2.76882	0.010	-9.5102	20.00000	Averaged	
11	Dibromofluoromethane	0.37670	0.44502	0.010	18.1349	20.00000	Averaged	
22	Toluene-D8	1.26040	1.30663	0.010	3.66821	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0466.D
Report Date: 10-Jul-2014 10:40

Katahdin Analytical Services

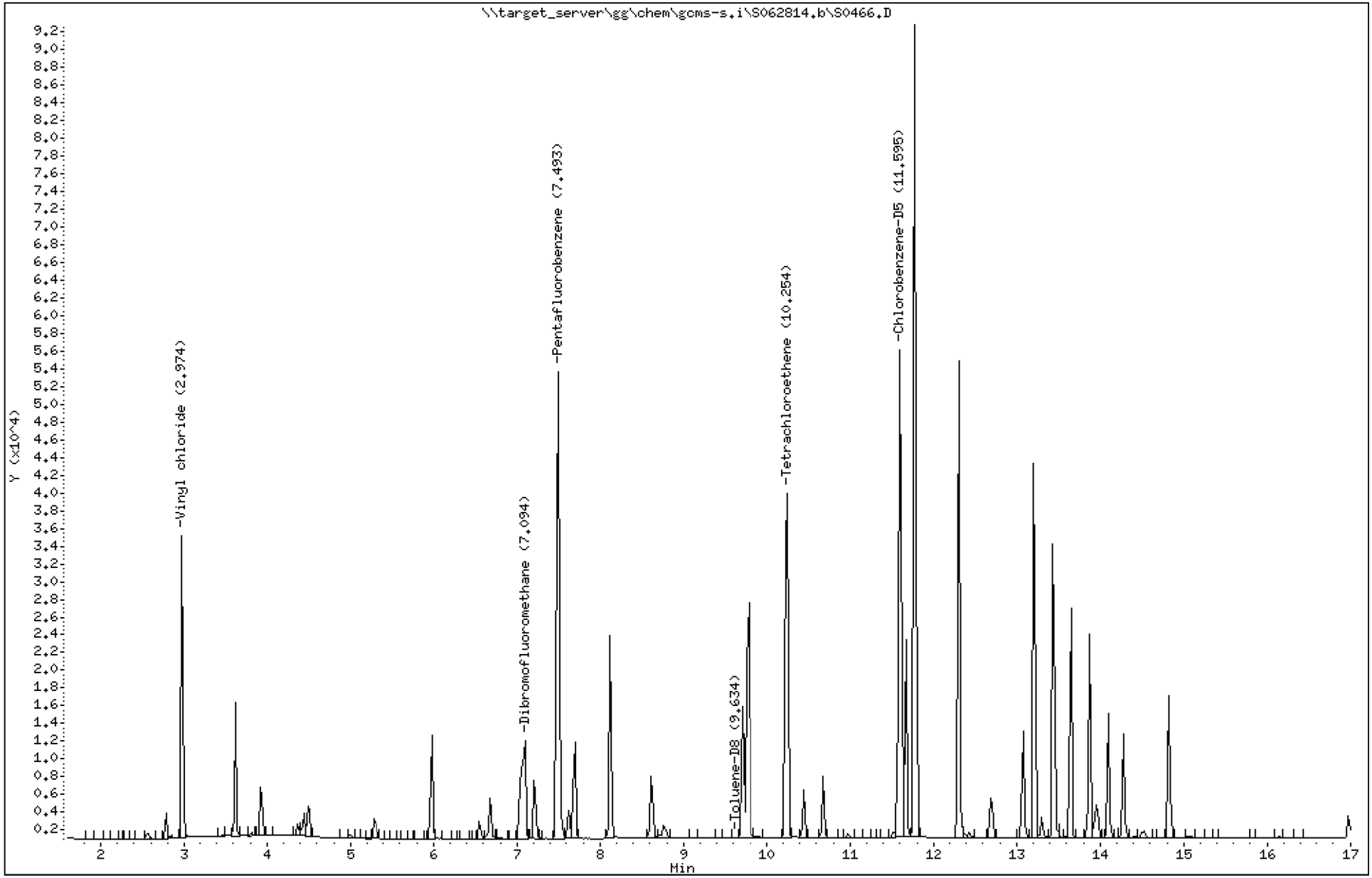
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Lab Smp Id: WG145589-4 Client Smp ID: ontinuing Calibrati
Inj Date : 28-JUN-2014 07:33 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145589-4,WE53-7
Misc Info : WG145589,WG145721-3,SH4401-1
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	35909	0.50000	0.49	
$	11 Dibromofluoromethane	113	7.051	7.072	(0.938)	8766	1.00000	1.2	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	19698	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	24123	1.00000	1.0	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	25559	0.50000	0.45	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	18462	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0466.D
Date : 28-JUN-2014 07:33
Client ID: ontinuing Calibrati
Instrument: gcms-s.i
Sample Info: WG145589-4,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000111

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 FTA
SDG: WE53-7
Lab ID : WG145683-4
Analytical Date: 06/30/14 08:41
Lab File ID : S0486.D
Instrument ID: GCMS-S
Initial Calibration Date(s): 06/27/14 10:40 06/27/14 14:33
Column ID:

	Compound	$\overline{RRF}$/Amount	RF0.500	CCAL RRF	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Vinyl chloride	3.69279	4.19155	0.010	13.5063	20.00000	Averaged	
24	Tetrachloroethene	3.05982	3.38055	0.010	10.4820	20.00000	Averaged	
11	Dibromofluoromethane	0.37670	0.40129	0.010	6.52654	20.00000	Averaged	
22	Toluene-D8	1.26040	1.15015	0.010	-8.7467	20.00000	Averaged	

*** = Compound out of QC criteria**

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0486.D
Report Date: 10-Jul-2014 13:59

Katahdin Analytical Services

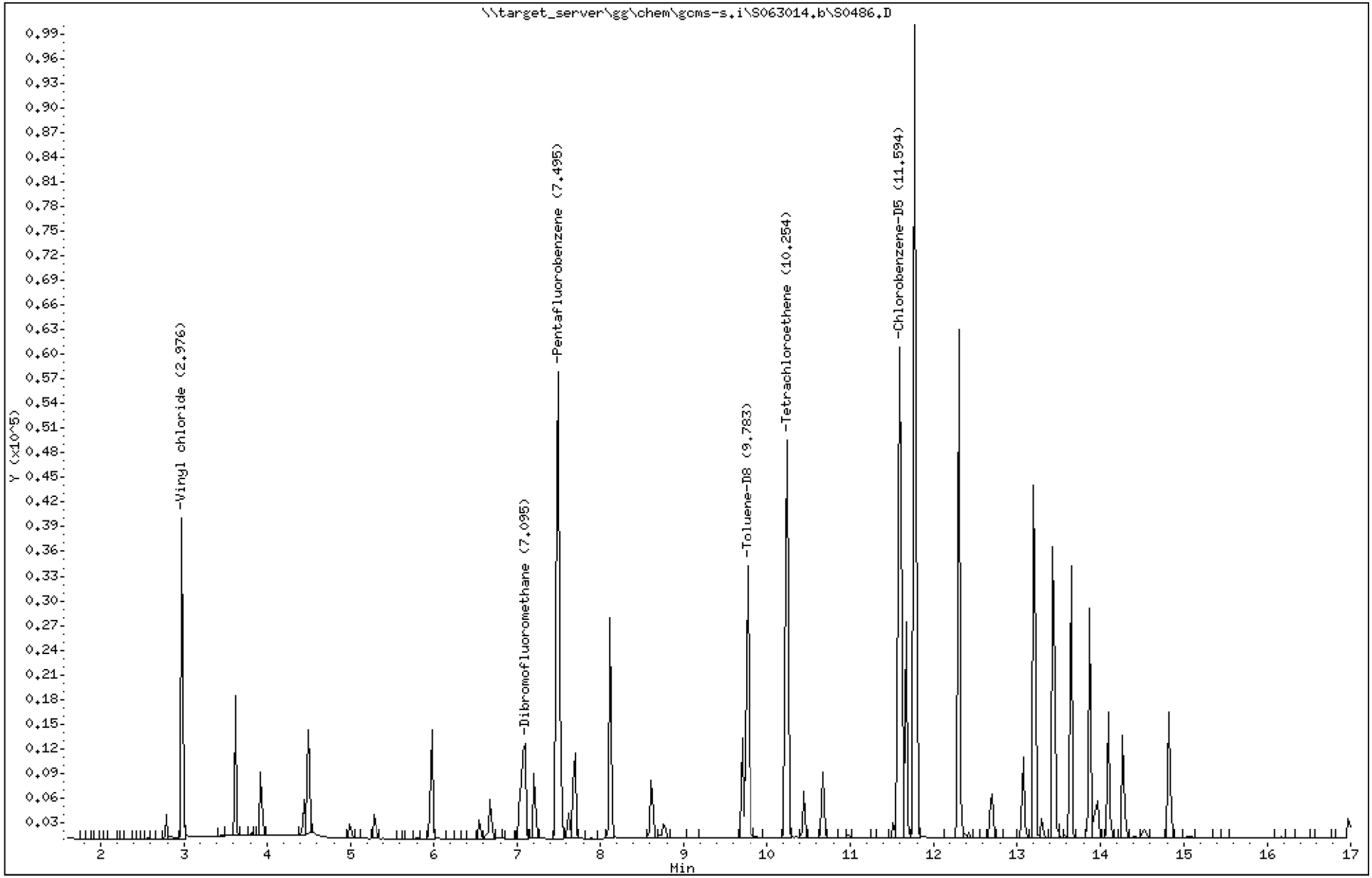
Data file : \\target_server\gg\chem\gcms-s.i\S063014.b\S0486.D
Lab Smp Id: WG145683-4 Client Smp ID: ontinuing Calibrati
Inj Date : 30-JUN-2014 08:41 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-4,WE53-7
Misc Info : WG145683,WG145721-4,SH4521-8
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 13:47 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.975	2.994	(0.396)	39629	0.50000	0.57	
$	11 Dibromofluoromethane	113	7.053	7.072	(0.938)	7588	1.00000	1.1	
*	14 Pentafluorobenzene	168	7.515	7.534	(1.000)	18909	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	20023	1.00000	0.91	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	29426	0.50000	0.55	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	17409	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0486.D
Date : 30-JUN-2014 08:41
Client ID: ontinuing Calibrati
Instrument: gcms-s.i
Sample Info: WG145683-4,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000114

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\SB442.D

Date : 27-JUN-2014 10:12

Client ID:

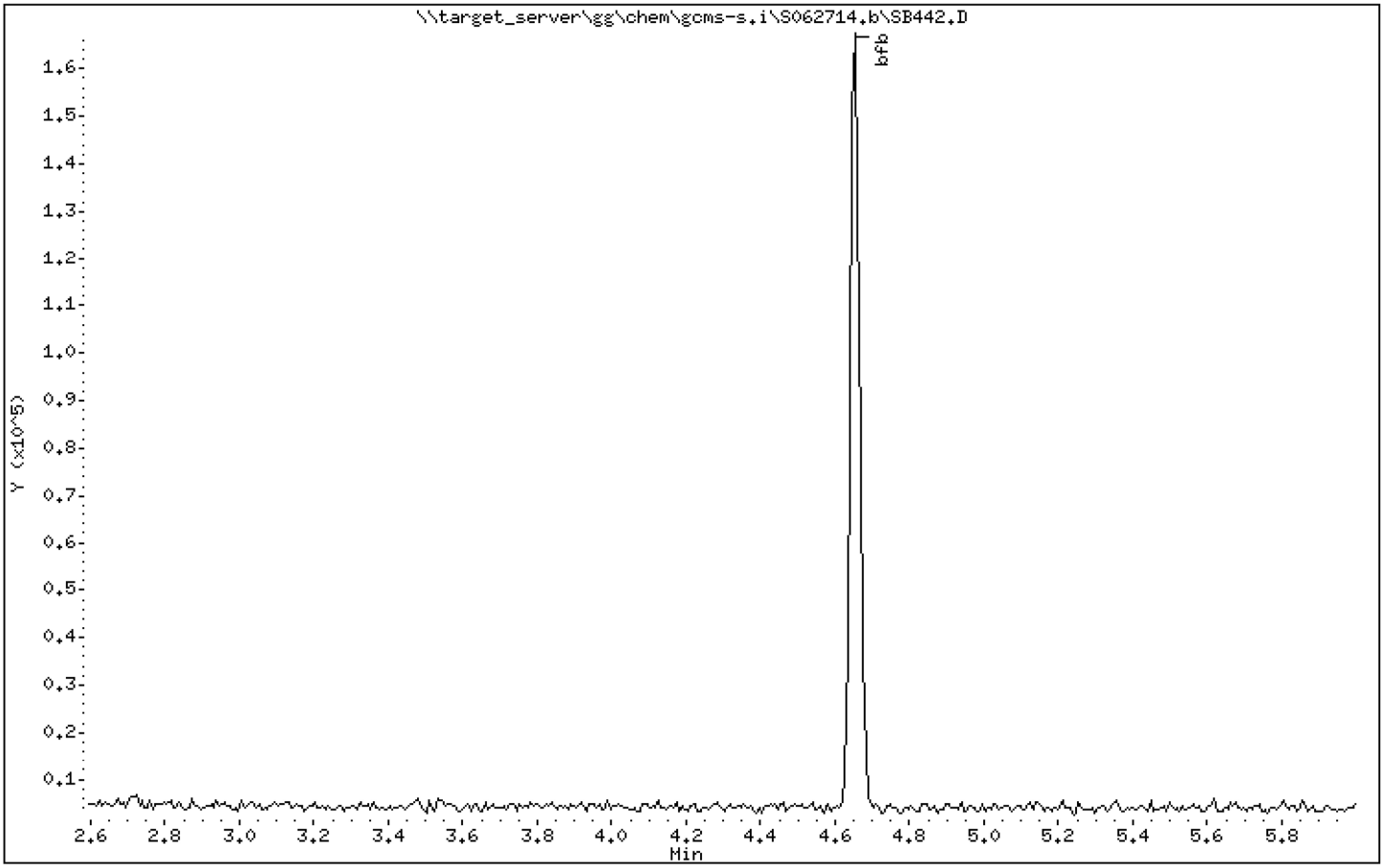
Instrument: gcms-s.i

Sample Info: WG145721-8,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\SB442.D

Date : 27-JUN-2014 10:12

Client ID:

Instrument: gcms-s.i

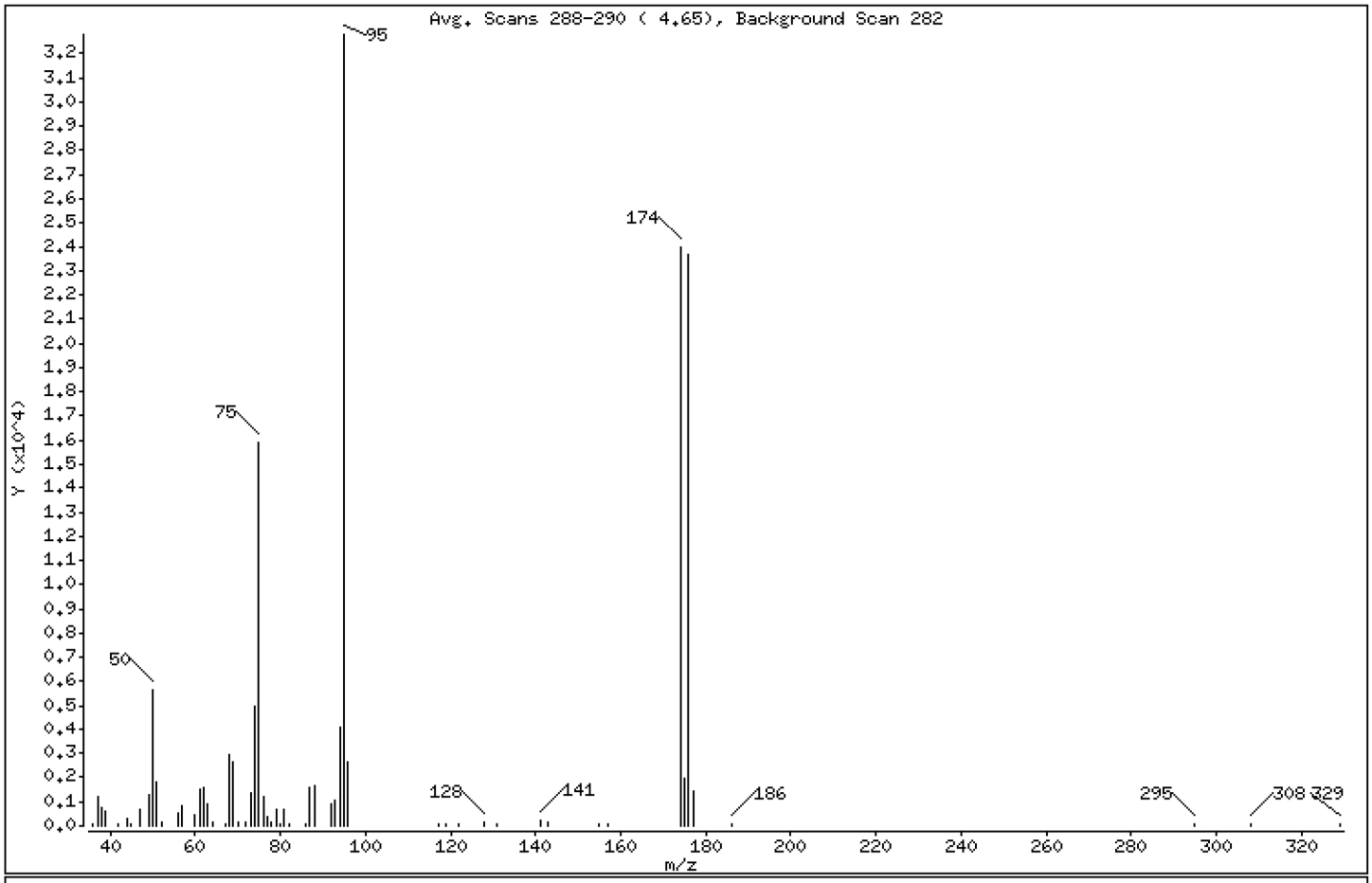
Sample Info: WG145721-8,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.20
75	30.00 - 60.00% of mass 95	48.42
96	5.00 - 9.00% of mass 95	7.97
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.18
175	5.00 - 9.00% of mass 174	5.98 (8.18)
176	95.00 - 101.00% of mass 174	72.08 (98.50)
177	5.00 - 9.00% of mass 176	4.45 (6.17)

Data File: \\target_server\gg\chem\gcms-s.i\S062714.b\SB442.D

Date : 27-JUN-2014 10:12

Client ID:

Instrument: gcms-s.i

Sample Info: WG145721-8,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

Data File: SB442.D

Spectrum: Avg. Scans 288-290 (4.65), Background Scan 282

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	85	61.00	1532	79.00	660	128.00	158
37.00	1219	62.00	1548	80.00	77	131.00	98
38.00	766	63.00	912	81.00	705	141.00	221
39.00	588	64.00	120	82.00	88	143.00	153
42.00	78	67.00	95	86.00	100	155.00	74
44.00	315	68.00	2953	87.00	1563	157.00	82
45.00	89	69.00	2605	88.00	1640	174.00	23992
47.00	669	70.00	174	92.00	887	175.00	1962
49.00	1260	72.00	142	93.00	1079	176.00	23632
50.00	5638	73.00	1385	94.00	4068	177.00	1458
51.00	1778	74.00	4946	95.00	32784	186.00	68
52.00	136	75.00	15873	96.00	2614	295.00	70
56.00	538	76.00	1213	117.00	90	308.00	80
57.00	853	77.00	397	119.00	101	329.00	67
60.00	449	78.00	152	122.00	68		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\SB443.D

Date : 28-JUN-2014 07:02

Client ID:

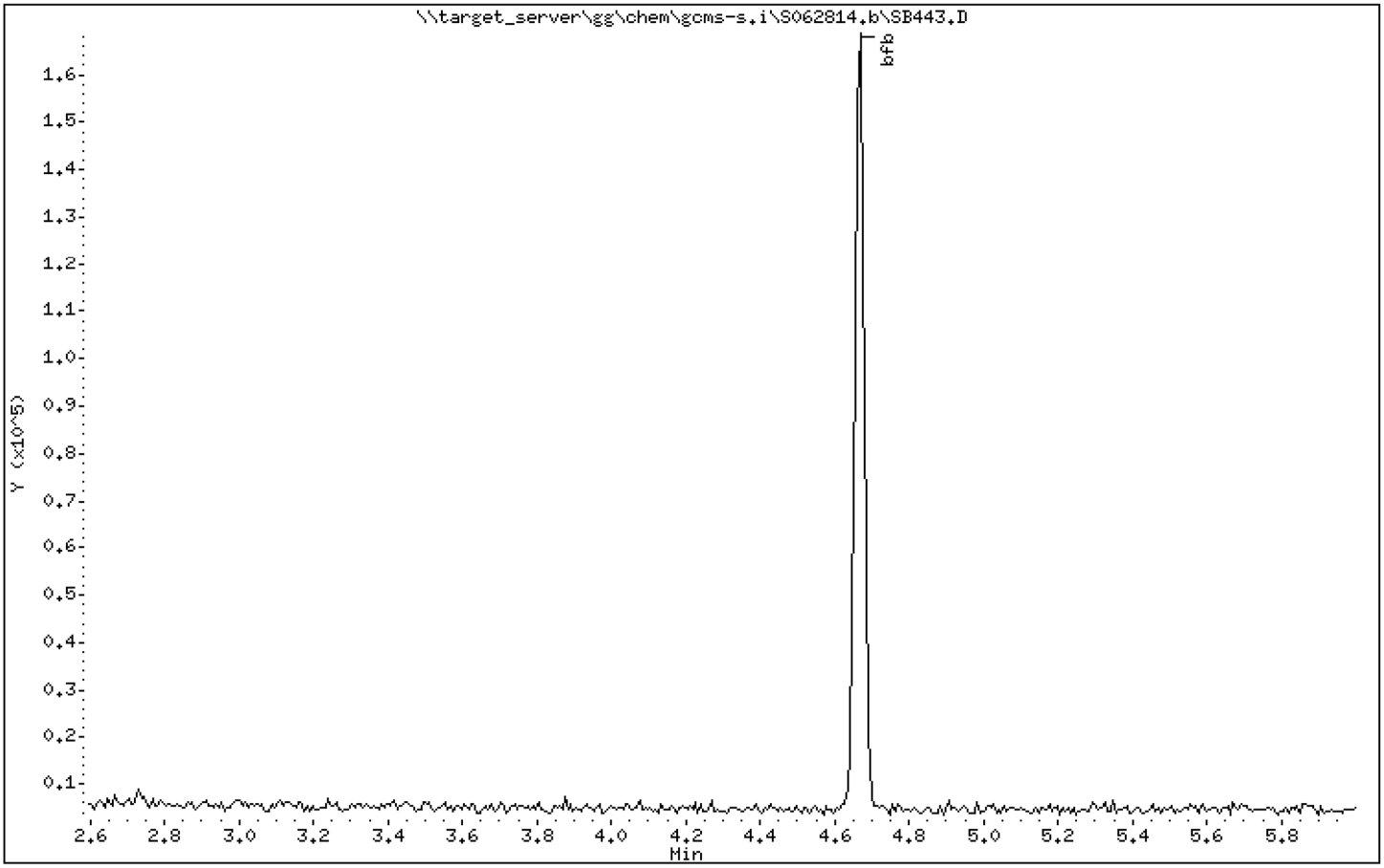
Instrument: gcms-s.i

Sample Info: WG145589-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\SB443.D

Date : 28-JUN-2014 07:02

Client ID:

Instrument: gcms-s.i

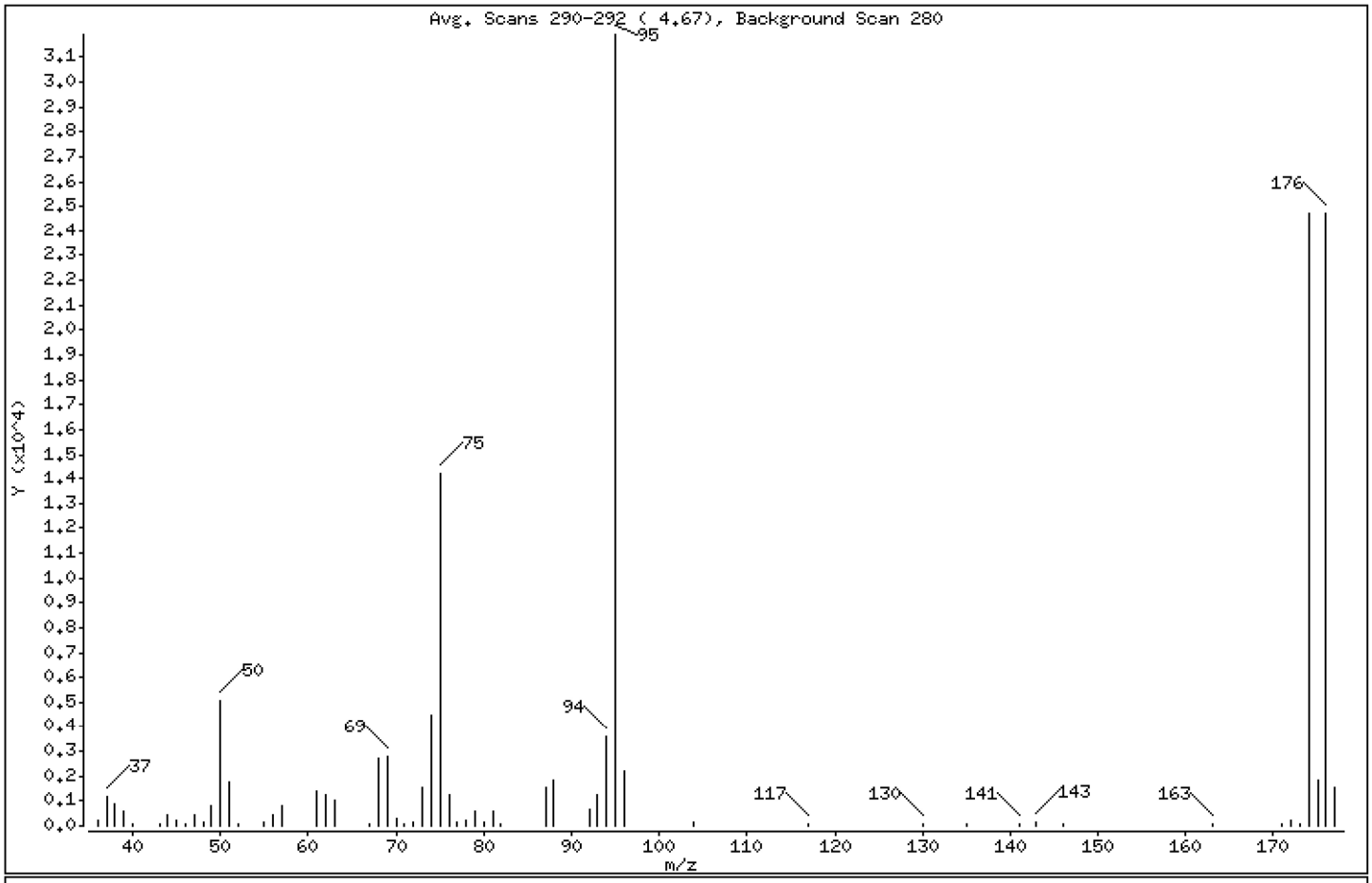
Sample Info: WG145589-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.91
75	30.00 - 60.00% of mass 95	44.50
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.30 (0.38)
174	Greater than 50.00% of mass 95	77.41
175	5.00 - 9.00% of mass 174	5.67 (7.32)
176	95.00 - 101.00% of mass 174	77.46 (100.06)
177	5.00 - 9.00% of mass 176	4.84 (6.24)

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\SB443.D

Date : 28-JUN-2014 07:02

Client ID:

Instrument: gcms-s.i

Sample Info: WG145589-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

Data File: SB443.D

Spectrum: Avg. Scans 290-292 (4.67), Background Scan 280

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	233	55.00	155	76.00	1222	117.00	77
37.00	1180	56.00	458	77.00	115	130.00	78
38.00	905	57.00	830	78.00	222	135.00	68
39.00	555	61.00	1410	79.00	555	141.00	105
40.00	104	62.00	1242	80.00	164	143.00	182
43.00	102	63.00	997	81.00	601	146.00	94
44.00	476	67.00	76	82.00	69	163.00	69
45.00	252	68.00	2704	87.00	1536	171.00	87
46.00	101	69.00	2766	88.00	1857	172.00	195
47.00	423	70.00	294	92.00	630	173.00	95
48.00	154	71.00	74	93.00	1276	174.00	24704
49.00	791	72.00	164	94.00	3623	175.00	1808
50.00	5078	73.00	1526	95.00	31912	176.00	24720
51.00	1777	74.00	4511	96.00	2226	177.00	1543
52.00	88	75.00	14200	104.00	122		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\SB444.D

Date : 30-JUN-2014 08:07

Client ID:

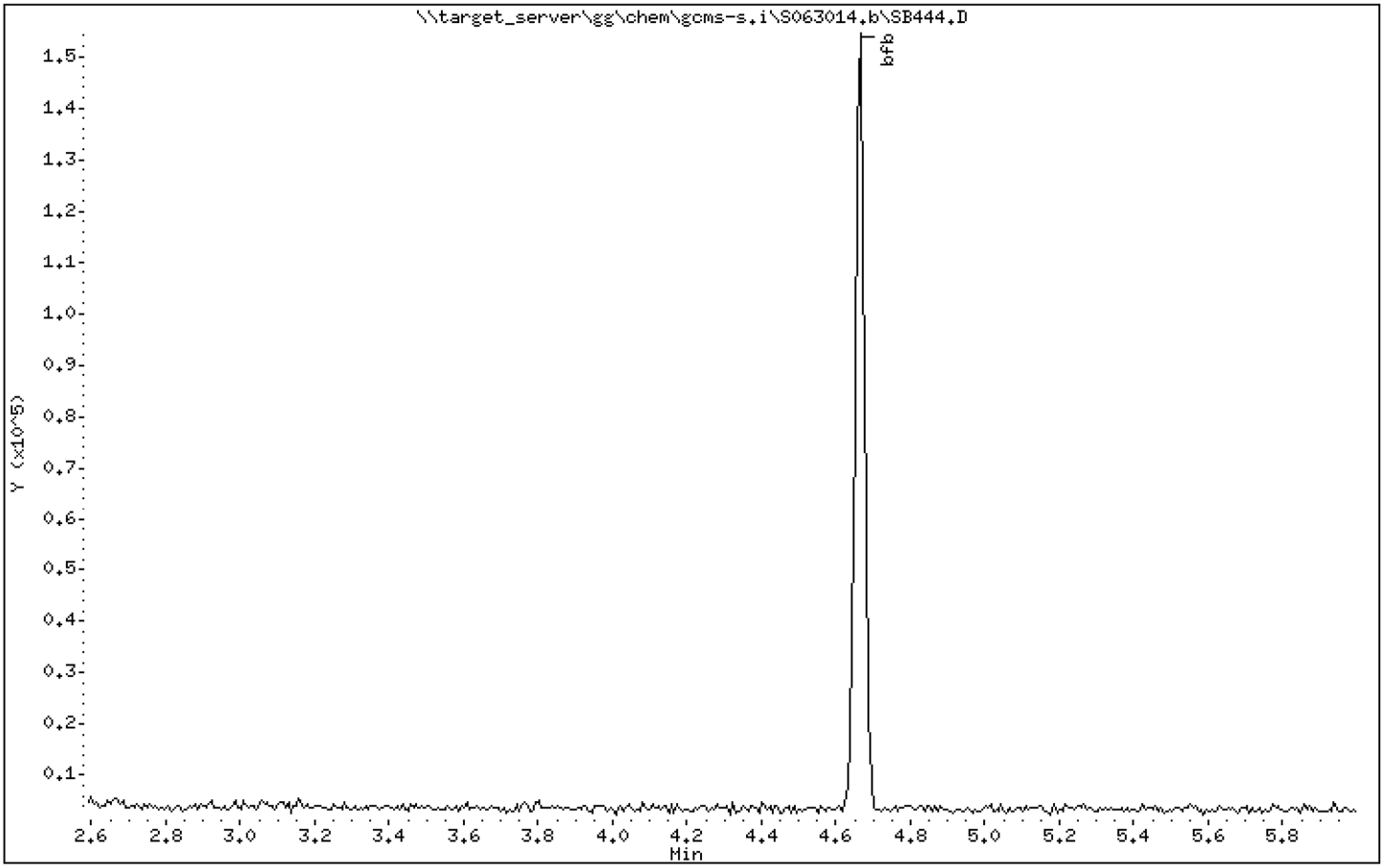
Instrument: gcms-s.i

Sample Info: WG145683-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\SB444.D

Date : 30-JUN-2014 08:07

Client ID:

Instrument: gcms-s.i

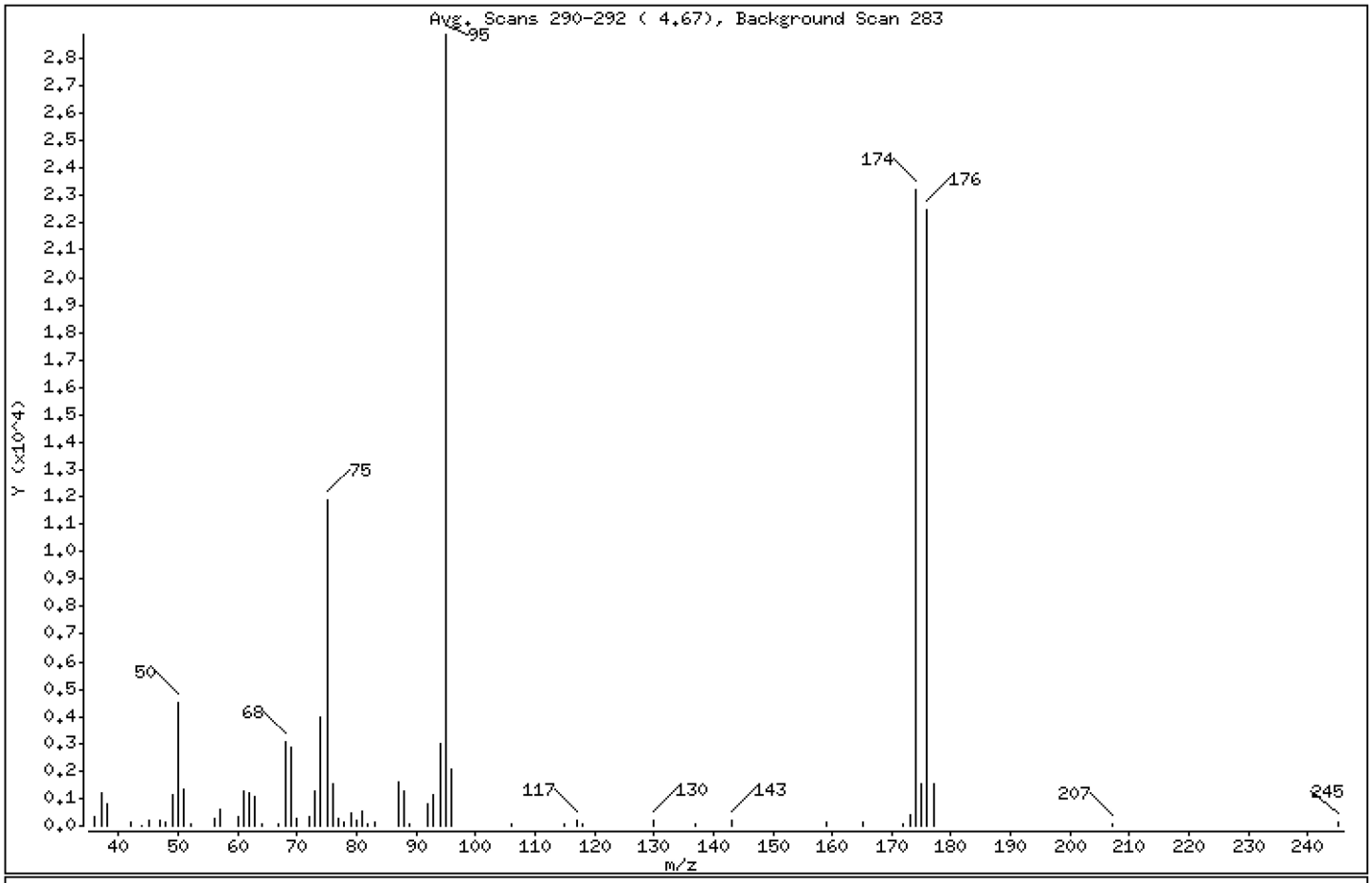
Sample Info: WG145683-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.54
75	30.00 - 60.00% of mass 95	41.25
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	1.30 (1.61)
174	Greater than 50.00% of mass 95	80.51
175	5.00 - 9.00% of mass 174	5.20 (6.46)
176	95.00 - 101.00% of mass 174	77.93 (96.80)
177	5.00 - 9.00% of mass 176	5.25 (6.74)

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\SB444.D

Date : 30-JUN-2014 08:07

Client ID:

Instrument: gcms-s.i

Sample Info: WG145683-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

Data File: SB444.D

Spectrum: Avg. Scans 290-292 (4.67), Background Scan 283

Location of Maximum: 95.00

Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	321	62.00	1207	81.00	509	137.00	69
37.00	1203	63.00	1069	82.00	72	143.00	224
38.00	772	64.00	94	83.00	101	159.00	108
42.00	163	67.00	69	87.00	1570	165.00	102
44.00	22	68.00	3050	88.00	1232	172.00	83
45.00	177	69.00	2863	89.00	96	173.00	374
47.00	232	70.00	240	92.00	828	174.00	23232
48.00	151	72.00	317	93.00	1157	175.00	1500
49.00	1102	73.00	1229	94.00	2985	176.00	22488
50.00	4484	74.00	3957	95.00	28856	177.00	1515
51.00	1319	75.00	11904	96.00	2065	207.00	72
52.00	76	76.00	1542	106.00	78	245.00	100
56.00	287	77.00	285	115.00	86		
57.00	577	78.00	149	117.00	187		
60.00	313	79.00	443	118.00	75		
61.00	1291	80.00	167	130.00	174		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG145589-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: S0468.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		105.	%					
Toluene-D8		96.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0468.D
Report Date: 10-Jul-2014 10:40

Katahdin Analytical Services

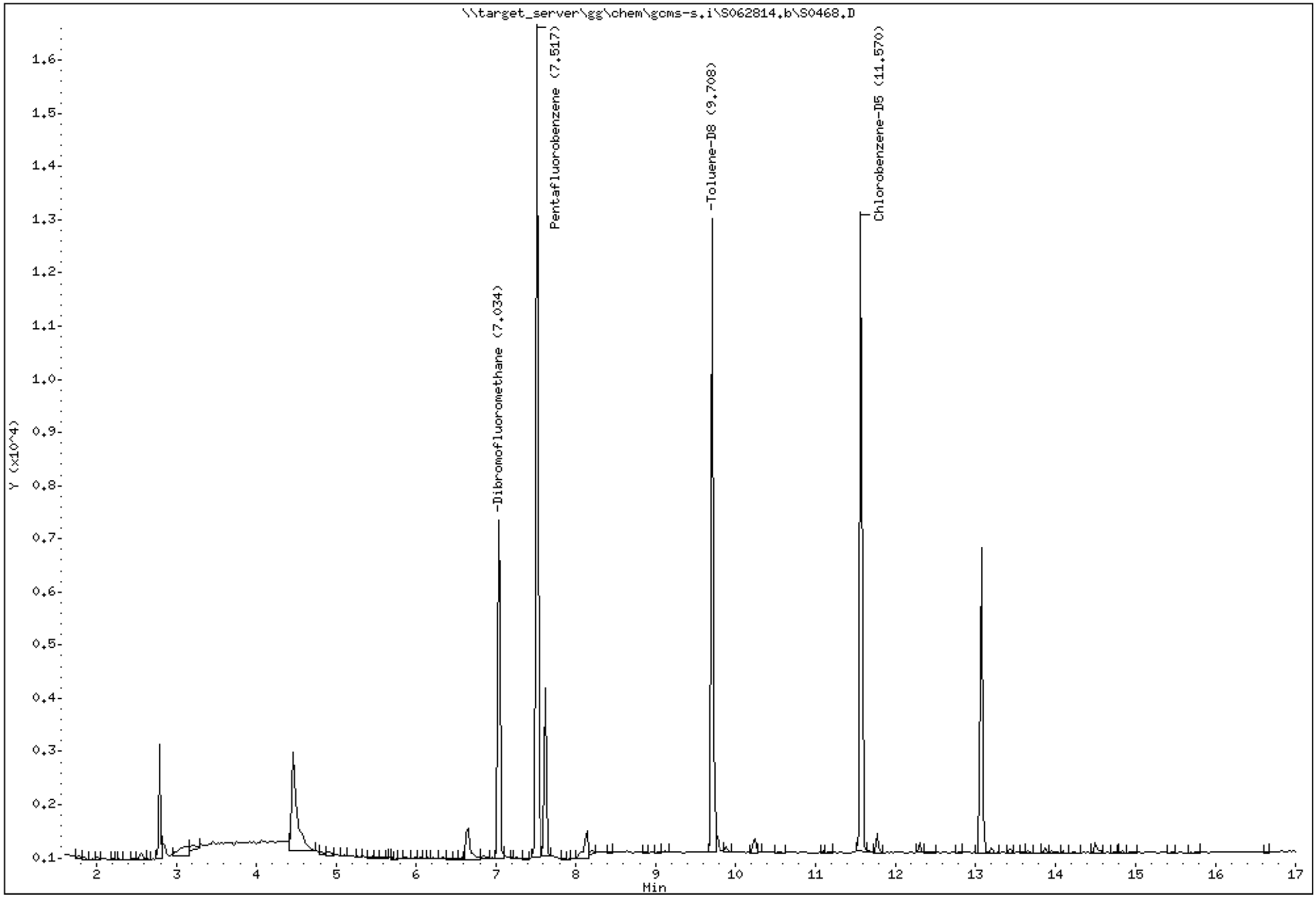
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Lab Smp Id: WG145589-2 Client Smp ID: WG145589-Blank
Inj Date : 28-JUN-2014 09:04 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145589-2,WE53-7
Misc Info : WG145589,WG145721-3,SH4401-1
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.033	7.072	(0.936)	7253	1.05114	1.0	
* 14 Pentafluorobenzene	168	7.517	7.534	(1.000)	18317	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	19316	0.96769	0.97	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15837	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0468.D
Date : 28-JUN-2014 09:04
Client ID: WG145589-Blank
Instrument: gcms-s.i
Sample Info: WG145589-2,WE53-7



Katahdin Analytical Services 2000127

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG145683-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: S0488.D

Sample Date:
Received Date:
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	0.050	ug/L	1	.1	0.10	0.024	0.050
Tetrachloroethene	U	0.025	ug/L	1	.05	0.050	0.0091	0.025
Dibromofluoromethane		103.	%					
Toluene-D8		108.	%					

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0488.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

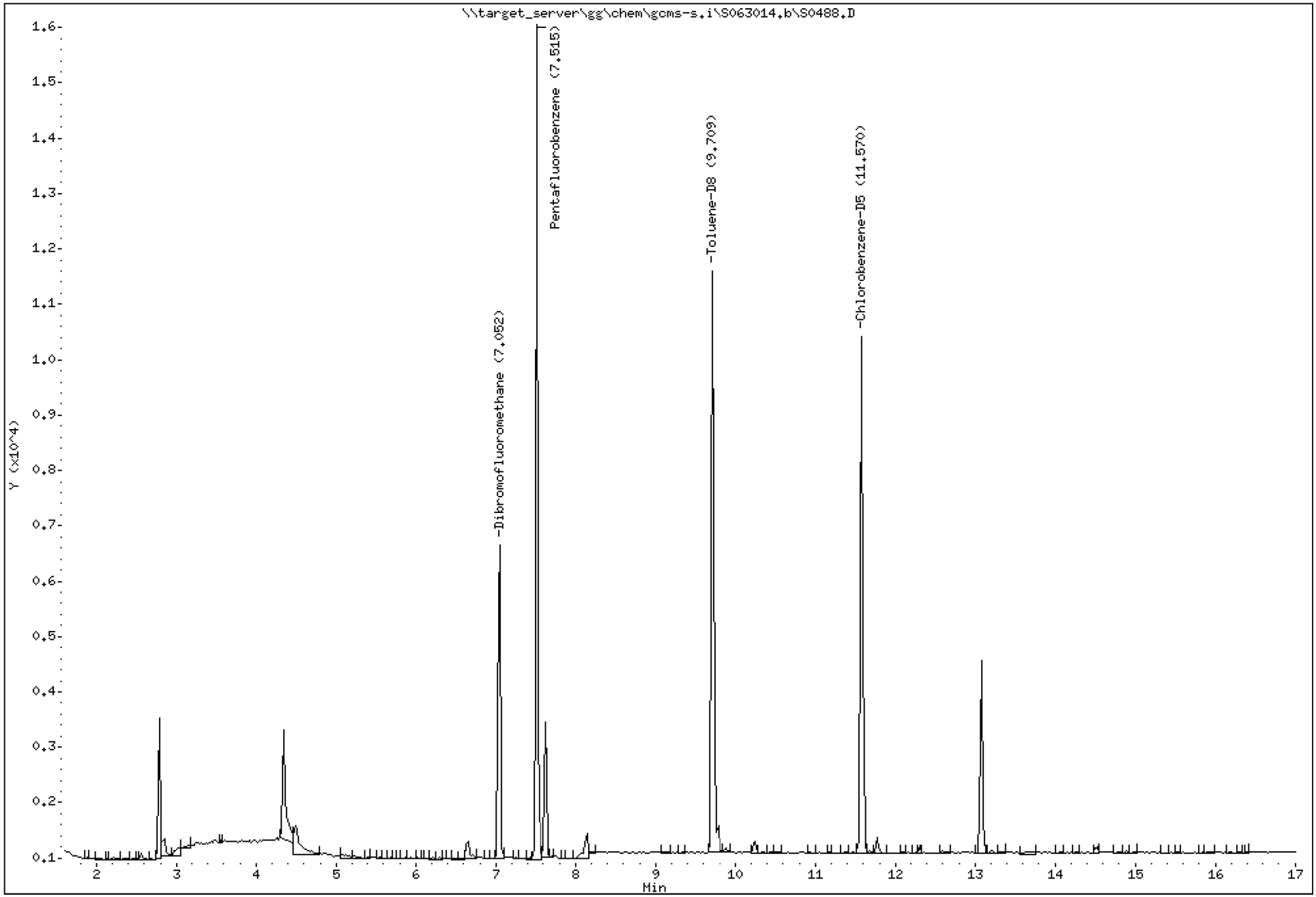
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Lab Smp Id: WG145683-2 Client Smp ID: WG145683-Blank
Inj Date : 30-JUN-2014 10:05 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-2,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-8
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	6618	1.03324	1.0	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	17003	1.00000		
$ 22 Toluene-D8	98	9.708	9.708	(0.839)	17127	1.07607	1.1	
* 31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	12628	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0488.D
Date : 30-JUN-2014 10:05
Client ID: WG145683-Blank
Instrument: gcms-s.i
Sample Info: WG145683-2,WE53-7



Katahdin Analytical Services 2000130

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG145589-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: S0467.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145589

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Vinyl Chloride	94.0	0.500	0.470	ug/L	70-130
Tetrachloroethene	84.0	0.500	0.420	ug/L	70-130
Dibromofluoromethane	100.				70-130
Toluene-D8	90.5				70-130

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Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0467.D
Report Date: 10-Jul-2014 11:17

Katahdin Analytical Services

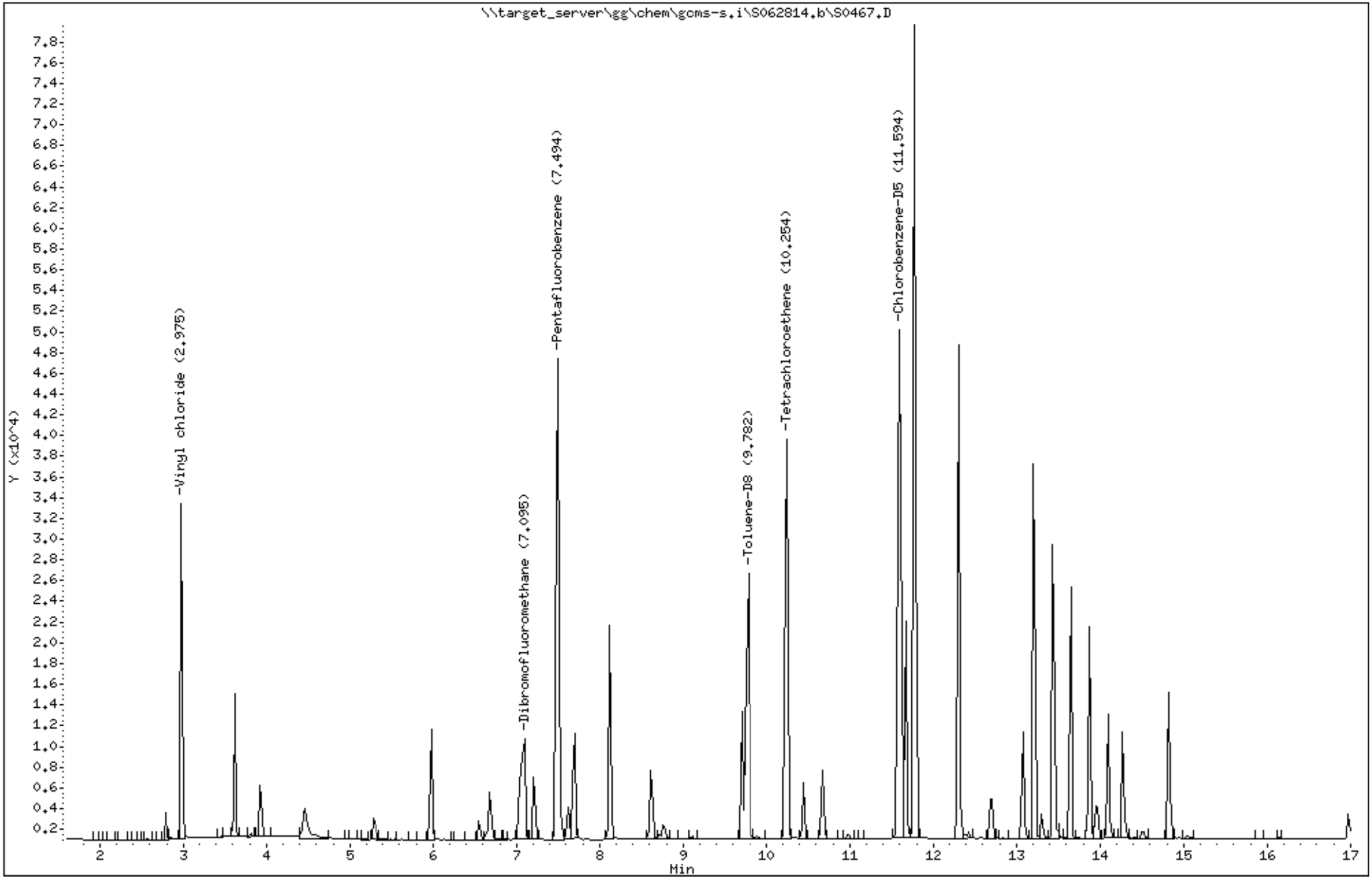
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Lab Smp Id: WG145589-1 Client Smp ID: WG145589-LCS
Inj Date : 28-JUN-2014 08:22 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145589-1,WE53-7
Misc Info : WG145589,WG145721-3,SH4401-1
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S062814.b\SSIMVP05.m
Meth Date : 09-Jul-2014 15:55 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
2 Vinyl chloride	62	2.974	2.994	(0.396)	33833	0.46666	0.47	
$ 11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7432	1.00489	1.0	
* 14 Pentafluorobenzene	168	7.514	7.534	(1.000)	19633	1.00000		
$ 22 Toluene-D8	98	9.707	9.708	(0.839)	20436	0.90490	0.90	
24 Tetrachloroethene	164	10.253	10.254	(0.886)	23216	0.42345	0.42	
* 31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	17918	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S062814.b\S0467.D
Date : 28-JUN-2014 08:22
Client ID: WG145589-LCS
Instrument: gcms-s.i
Sample Info: WG145589-1,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000133

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG145683-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: S0487.D

Sample Date:
Received Date:
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA
Report Date: 10-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Vinyl Chloride	90.0	0.500	0.450	ug/L	70-130
Tetrachloroethene	100.	0.500	0.500	ug/L	70-130
Dibromofluoromethane	99.3				70-130
Toluene-D8	94.6				70-130

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0487.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

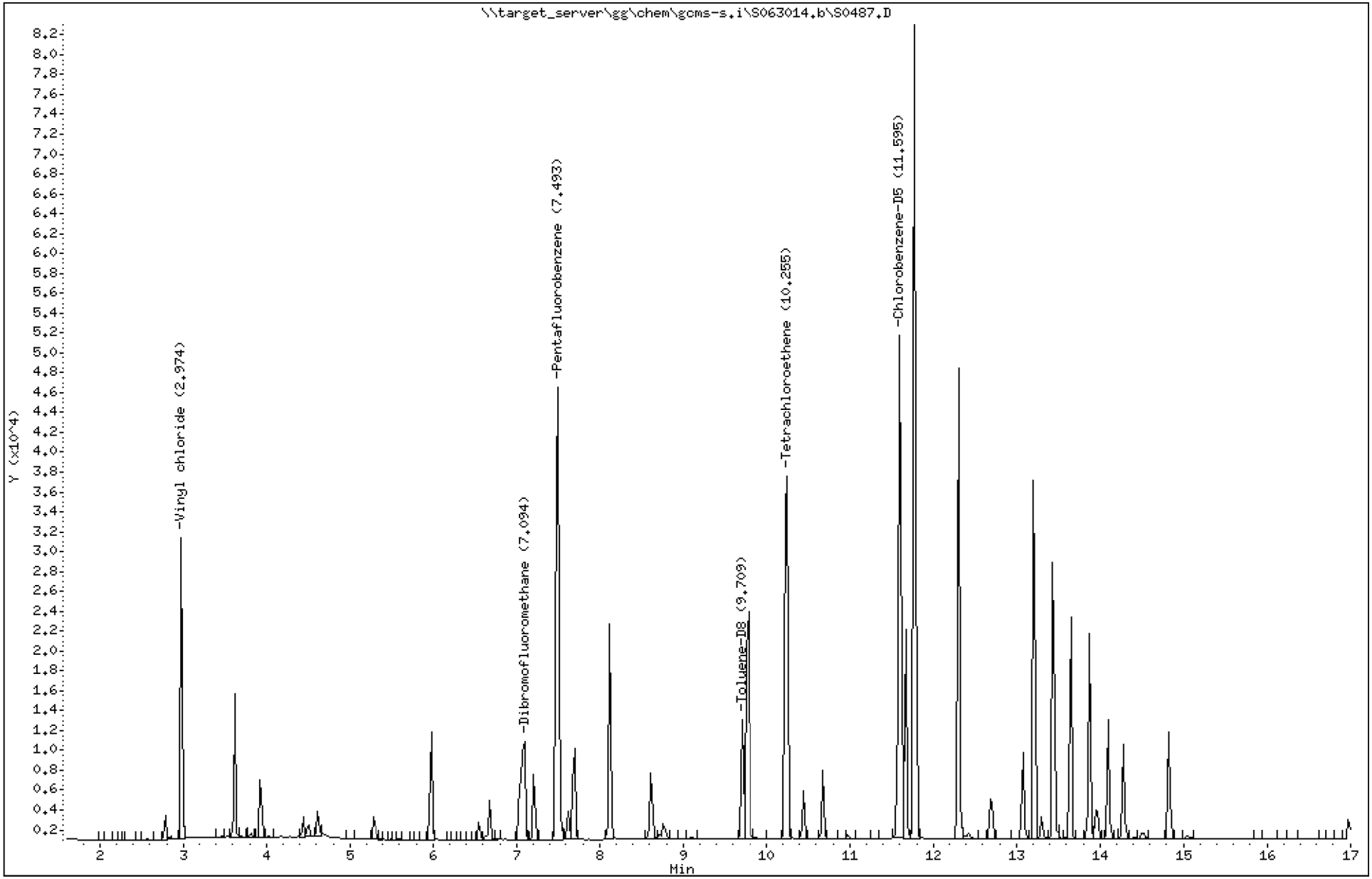
Data file : \\target_server\gg\chem\gcms-s.i\S063014.b\S0487.D
Lab Smp Id: WG145683-1 Client Smp ID: WG145683-LCS
Inj Date : 30-JUN-2014 09:26 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-1,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-8
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	31128	0.45149	0.45	
$	11 Dibromofluoromethane	113	7.051	7.072	(0.938)	6985	0.99316	0.99	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	18670	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	19210	0.94555	0.94	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	24628	0.49934	0.50	
*	31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	16119	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0487.D
Date : 30-JUN-2014 09:26
Client ID: WG145683-LCS
Instrument: gcms-s.i
Sample Info: WG145683-1,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000136

MS/MSD Recovery Report

MS ID: WG145683-5
MSD ID: WG145683-6
Sample ID: SH4521-8
Client ID: FTA-MW-210-061814
Project:
SDG: WE53-7
MS File ID: S0497.D

Received Date:
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683
Report Date: 10-JUL-14
MSD File ID: S0498.D

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Vinyl Chloride	0.500	0.500	ug/L	U0.050	0.410	0.410	82.0	82.0	0	20	70-130
Tetrachloroethene	0.500	0.500	ug/L	J0.011	0.430	0.390	83.8	75.8	10	20	70-130
Dibromofluoromethane							113.	109.			70-130
Toluene-D8							91.2	89.1			70-130

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0497.D
Report Date: 10-Jul-2014 10:41

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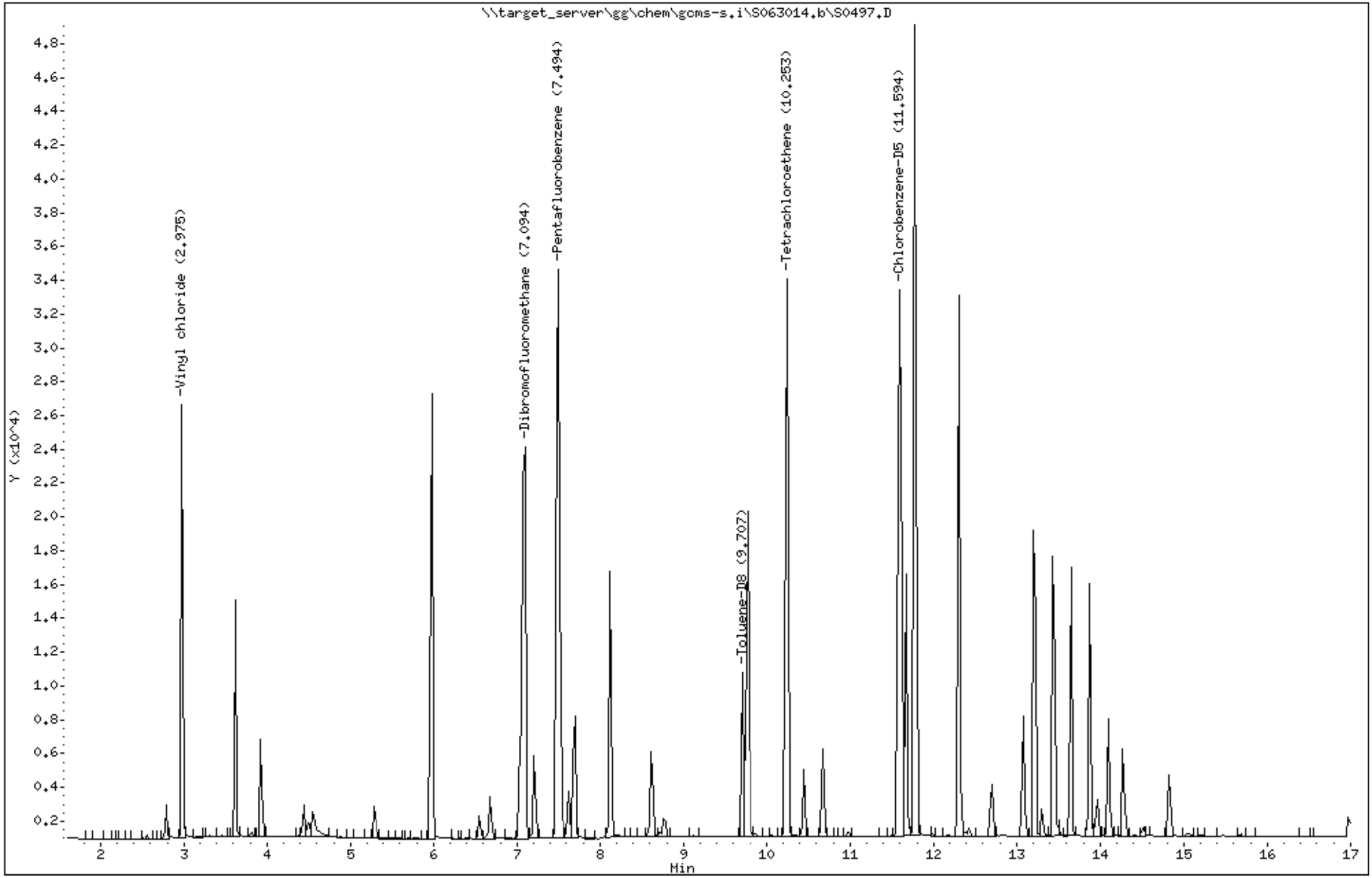
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Lab Smp Id: WG145683-5 Client Smp ID: FTA-MW-210-061814MS
Inj Date : 30-JUN-2014 16:05 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-5,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-8
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	25371	0.41148	0.41	
$	11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7106	1.12976	1.1	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	16697	1.00000		
$	22 Toluene-D8	98	9.707	9.708	(0.839)	16515	0.91234	0.91	
	24 Tetrachloroethene	164	10.253	10.254	(0.886)	18975	0.43179	0.43	
*	31 Chlorobenzene-D5	117	11.568	11.569	(1.000)	14362	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0497.D
Date : 30-JUN-2014 16:05
Client ID: FTA-MW-210-061814MS
Instrument: gcms-s.i
Sample Info: WG145683-5,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000139

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0498.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

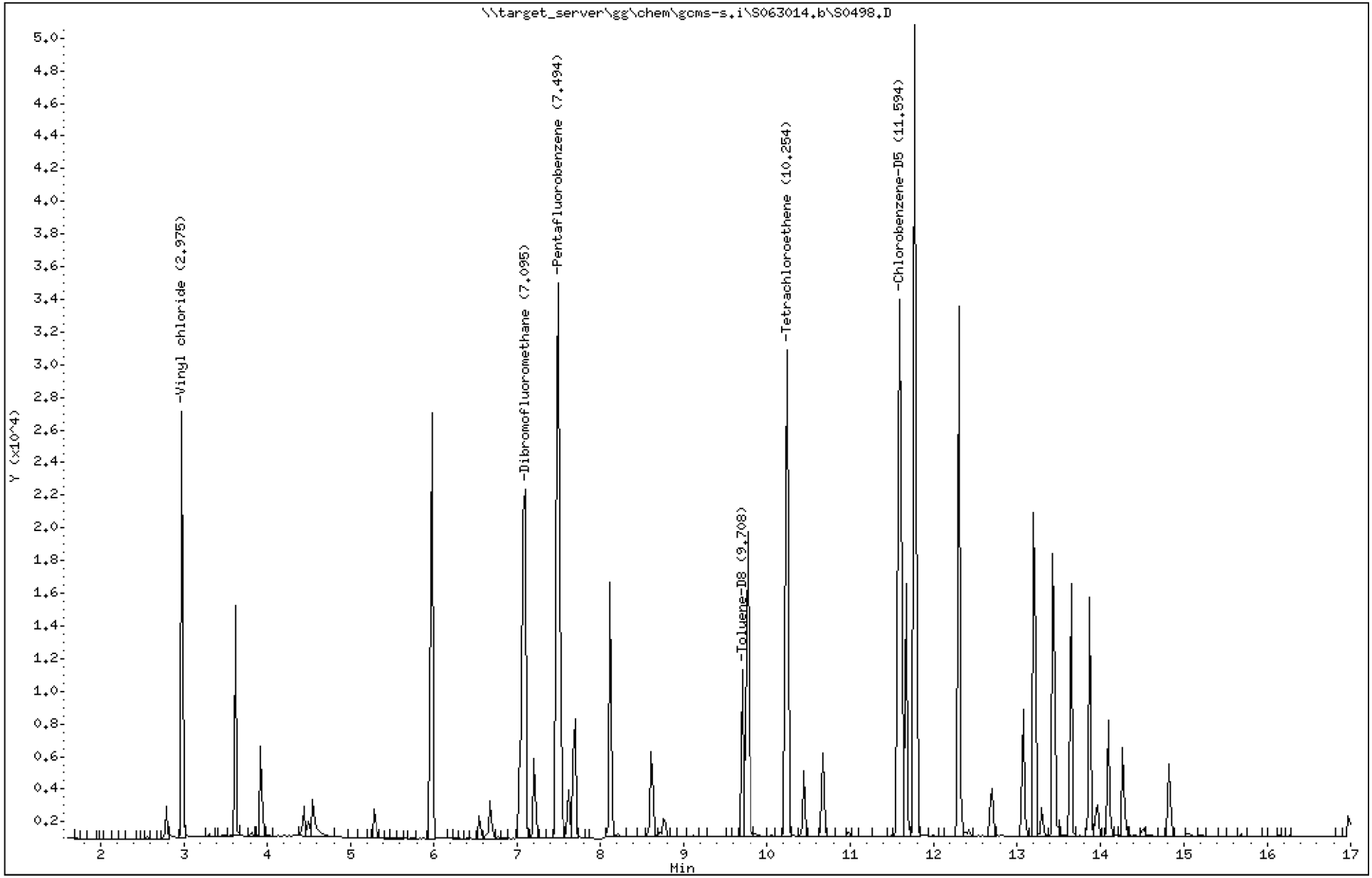
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Lab Smp Id: WG145683-6 Client Smp ID: FTA-MW-210-061814MS
Inj Date : 30-JUN-2014 16:44 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-6,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-8
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.975	2.994	(0.396)	26046	0.40683	0.41	
$	11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7124	1.09081	1.1	
*	14 Pentafluorobenzene	168	7.515	7.534	(1.000)	17337	1.00000		
$	22 Toluene-D8	98	9.707	9.708	(0.839)	16982	0.89075	0.89	
	24 Tetrachloroethene	164	10.253	10.254	(0.886)	18163	0.39244	0.39	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15126	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0498.D
Date : 30-JUN-2014 16:44
Client ID: FTA-MW-210-061814MS
Instrument: gcms-s.i
Sample Info: WG145683-6,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000141

MS/MSD Recovery Report

MS ID: WG145683-7
MSD ID: WG145683-8
Sample ID: SH4521-14
Client ID: FTA-SW-03-061914
Project:
SDG: WE53-7
MS File ID: S0499.D

Received Date:
Extract Date: 30-JUN-14
Extracted By: DJP
Extraction Method: SW846 8260BSIM
Lab Prep Batch: WG145683
Report Date: 10-JUL-14
MSD File ID: S0500.D

Analysis Date: 30-JUN-14
Analyst: DJP
Analysis Method: SW846 8260BSIM
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Vinyl Chloride	0.500	0.500	ug/L	U0.050	0.450	0.510	90.0	102.	12	20	70-130
Tetrachloroethene	0.500	0.500	ug/L	U0.025	0.420	0.420	84.0	84.0	0	20	70-130
Dibromofluoromethane							109.	113.			70-130
Toluene-D8							88.2	89.5			70-130

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Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0499.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

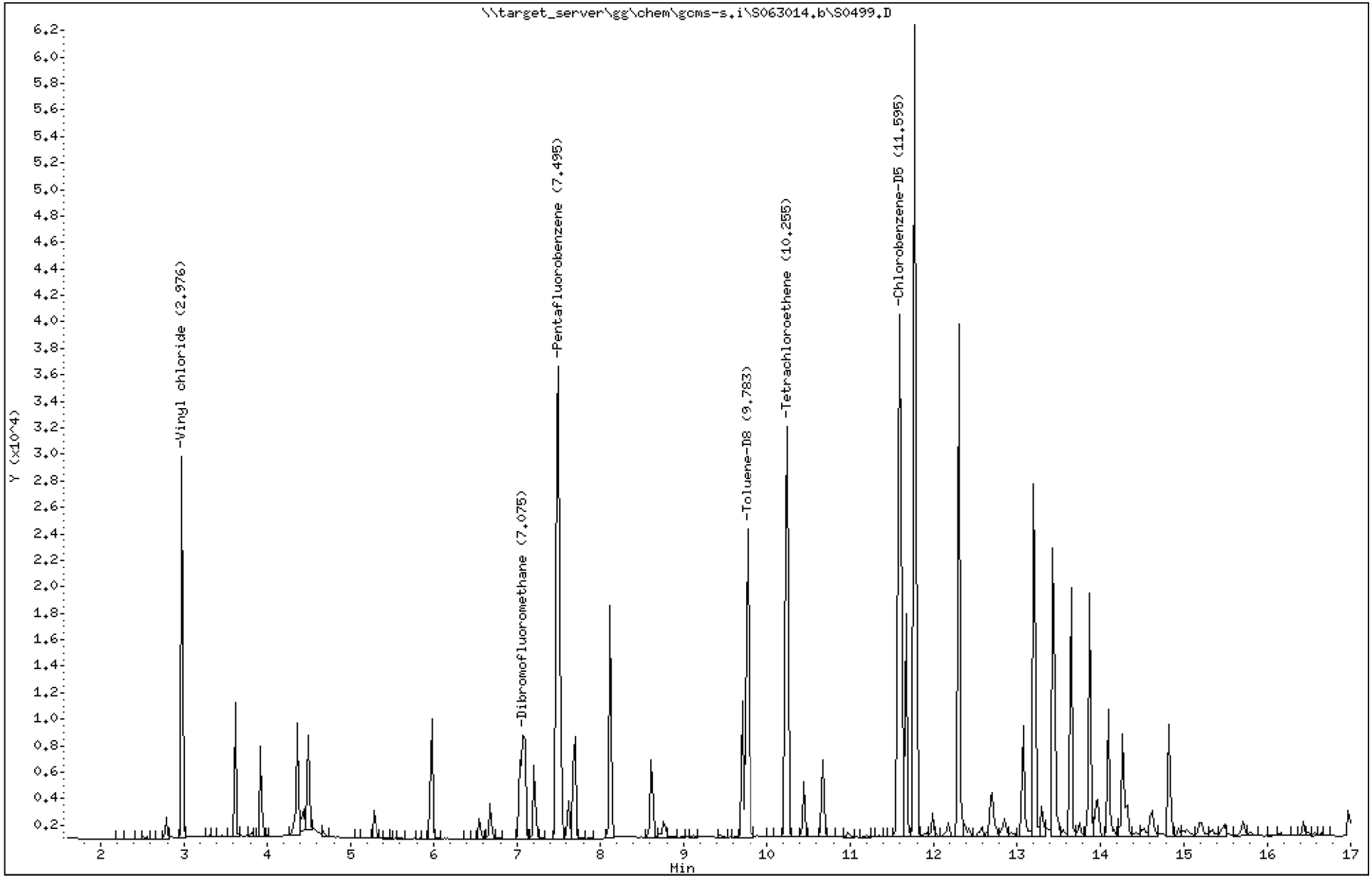
Data file : \\target_server\gg\chem\gcms-s.i\S063014.b\S0499.D
Lab Smp Id: WG145683-7 Client Smp ID: FTA-SW-03-061914MS
Inj Date : 30-JUN-2014 17:23 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-7,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-14
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.975	2.994	(0.396)	28117	0.44618	0.45	
$	11 Dibromofluoromethane	113	7.053	7.072	(0.938)	7029	1.09342	1.1	
*	14 Pentafluorobenzene	168	7.515	7.534	(1.000)	17065	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	17003	0.88212	0.88	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	19602	0.41890	0.42	
*	31 Chlorobenzene-D5	117	11.570	11.569	(1.000)	15293	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0499.D
Date : 30-JUN-2014 17:23
Client ID: FTA-SW-03-061914MS
Instrument: gcms-s.i
Sample Info: WG145683-7,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000144

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0500.D
Report Date: 10-Jul-2014 10:41

Katahdin Analytical Services

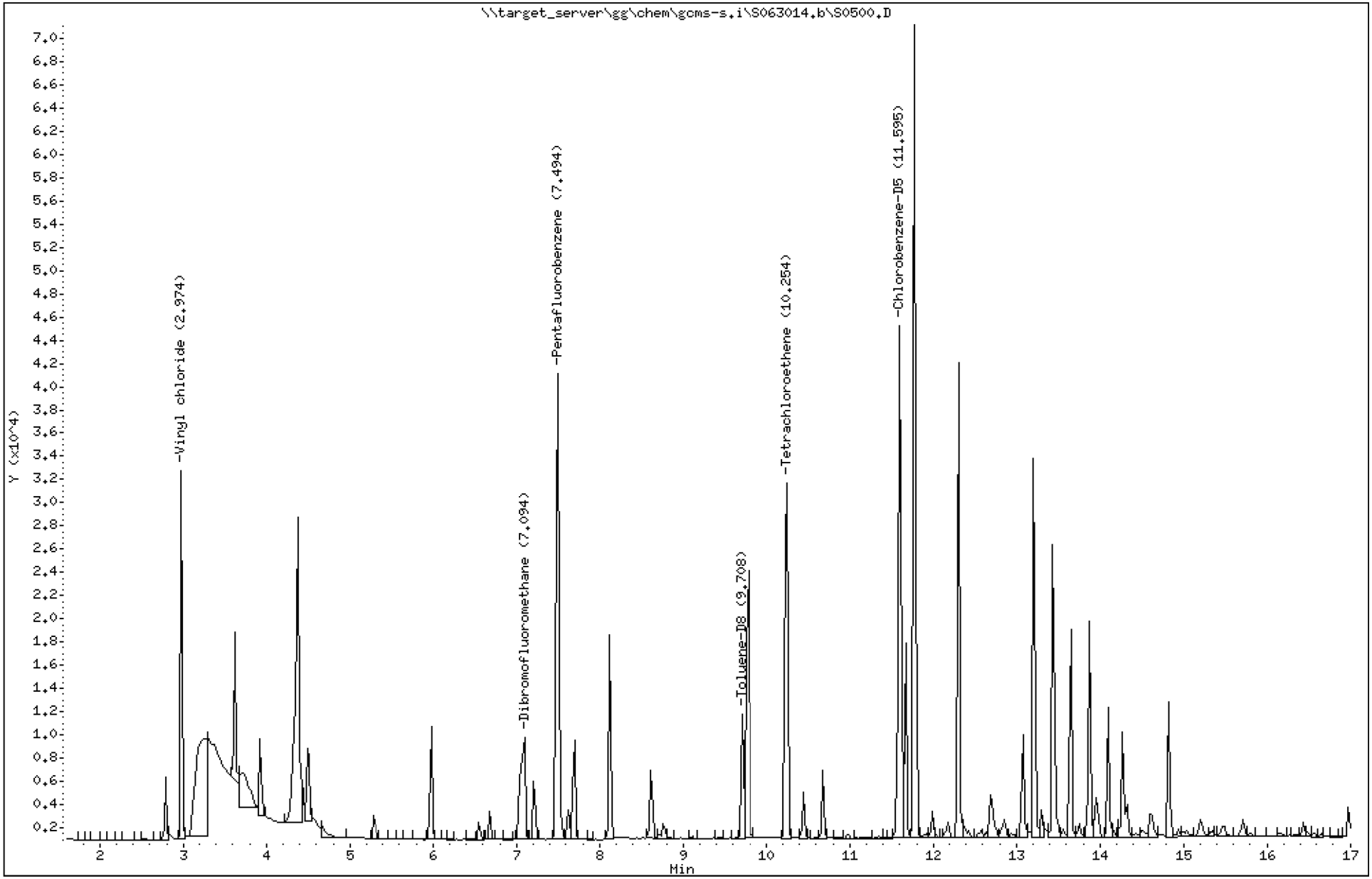
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Inj Date : 30-JUN-2014 18:02 MS Autotune Date: 27-JUN-2014 10:11
Operator : DJP Inst ID: gcms-s.i
Smp Info : WG145683-8,WE53-7
Misc Info : WG145683,WG145721-3,SH4521-14
Comment :
Method : \\target_server\gg\chem\gcms-s.i\S063014.b\SSIMVP05.m
Meth Date : 10-Jul-2014 09:43 djpaul Quant Type: ISTD
Cal Date : 27-JUN-2014 14:33 Cal File: S0458.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	25.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	2 Vinyl chloride	62	2.974	2.994	(0.396)	31311	0.50624	0.51	
$	11 Dibromofluoromethane	113	7.052	7.072	(0.938)	7124	1.12910	1.1	
*	14 Pentafluorobenzene	168	7.514	7.534	(1.000)	16749	1.00000		
$	22 Toluene-D8	98	9.708	9.708	(0.839)	17316	0.89490	0.89	
	24 Tetrachloroethene	164	10.254	10.254	(0.886)	19842	0.42240	0.42	
*	31 Chlorobenzene-D5	117	11.569	11.569	(1.000)	15352	1.00000		

Data File: \\target_server\gg\chem\gcms-s.i\S063014.b\S0500.D
Date : 30-JUN-2014 18:02
Client ID: FTA-SW-03-061914MSD
Instrument: gcms-s.i
Sample Info: WG145683-8,WE53-7
Purge Volume: 25.0
Operator: DJP
Column phase: RTX-VMS
Column diameter: 0.18



Katahdin Analytical Services 2000146

Logbooks and Supporting Documents

GCMS-S INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 6-27-14

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria QAPP	Y/N	ANALYST	PH	COMMENTS
50ngBFB-8	SB442	1	-1	VoabfbAQ							Y	DTP		
VSTD001 -4	S0452*	1	1	SSimVPOS							Y			
00.5 -3	S0453*	1	2								Y			WG145721
00.07 ~~08~~ -2	S0454	1	3								Y			
-2 ~~.05~~ 0.075 -2	S0455*	1	4							DTP 6/27/14	N			
~~004~~ 0.05 -1	S0456*	1	5								Y			
~~002~~ 0.004 -6	S0457*	1	6								Y			
000 -5	58*	1	7								Y			
LCS	59	1	8								N			
LCS/inD	60	1	9								Y			misspiked ↑ VC ind next batch
VBLKA	61	1	10								Y			
↓B	62	1	11								Y			
LOD	63	1	12								N			
LOD	64	1	13								Y			
Rinse	S0465	1	14								N			
			15											
			16											
			17											
			18											
			19											
			20											
														DTP 6/28/14

STANDARD	CODE
BFB	V9391
CAL. STD.	V9432
LCS/MS MIX	V9433
EXTRAS MIX	

STANDARD	CODE
IS MIX	V9408
SS MIX	

Circle Methods:

~~SW846 8260~~	OLM 04.2
SW846 8260 SIM	OLC 03.2
~~SW846 8260 SIM~~ (heated purge)	EPA 624
	EPA 524

GCMS-S INSTRUMENT RUNLOG

KATAHDIN ANALYTICAL SERVICES

DATE/TIME OF BFB INJECTION: 6/28/14 702

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	5035	1311	Criteria KAS	DoD	QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB-3	SB443	1	-1	V0a6PbAQ							Y	DJP		
VSTD00.5 -4	S0466	1	1	SSimVP05							Y			
LCS/inD WG145589-1	S0467 (A)	1	2								Y			A(-5) inD
VBLKA -2	68	1	3								Y			
SH4401-12 B	69	1	4								Y		<2	
-14 B	70	1	5								Y		<2	
-16 B	71	1	6								Y		<2	
-18 B	72	1	7								Y		<2	
DJP 6/28/14 -21E B	73	1	8								Y		<2	
-4 B	74	1	9								Y		<2	
-6 E	75	1	10								Y		<2	
-8 B	76	1	11								Y		<2	
-10 B	77	1	12								Y		<2	
-20 E	78	1	13								Y		<2	
SH4401-2 B	79	1	14								Y		<2	
SH4521-1 G	80	1	15								Y		<2	
-2 F	81	1	16								Y		<2	
-4 H	82	1	17								Y		<2	
-6 H	S0483	1	18								Y		<2	1851
Rinse	S0484	1	19									DJP	—	

DJP 6/30/14

STANDARD	CODE
BFB	V9391
CAL. STD.	V9432 V4 DJP 6/28/14
LCS/MS MIX	V9433
EXTRAS MIX	

STANDARD	CODE
IS MIX	V9408
SS MIX	

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-S INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 6/30/14 807

SAMPLE NAME	DATAFILE	DF	ALS #	METHOD	PREP METHOD 5030	PREP METHOD 5035	PREP METHOD 1311	Criteria KAS	Criteria DoD	Criteria QAPP	Y/N	ANALYST	PH	COMMENTS
50ng BFB-3	S0444	1	-1	V0ACbfbAQ							Y	DJP		
VSTD00.5 -4	S0486	1	1	SSimVP05							Y			
LCS WG145683-1	S0487	1	2								Y			
VBLK -2	S0488	1	3								Y			
SH4521-8 H	S0489	1	4		*				X		Y		<2	
-10 B	S0490	1	5								Y		<2	
-12 B	S0491	1	6								Y		<2	
-14 M	S0492	1	7								Y		<2	
-16 D	S0493	1	8								Y		<2	
-18 D	S0494	1	9								Y		<2	
-20 D	S0495	1	10								Y		<2	
-22 F	S0496	1	11								Y		<2	
SH4521-8MS I	S0497	1	12								Y		<2	
-8MSD J	S0498	1	13								Y		<2	
-14MS J	S0499	1	14								Y		<2	
-14MSD K	S0500	1	15								N		<2	
Rinse	S0501	1	16								N		<2	
Rinse	S0502	1	17								N	DJP	5	

DJP 7/1/14

STANDARD	CODE
BFB	V9391 DJP
CAL. STD.	V9432 ✓ 6/30/14
LCS/MS MIX	V9433
EXTRAS MIX	

STANDARD	CODE
IS MIX	V9408
SS MIX	

Circle Methods:

~~SW846 8260~~	OLM 04.2
SW846 8260 SIM	OLC 03.2
~~SW846 8260 SIM~~ (heated purge)	EPA 624
	EPA 524

Katahdin Analytical Services 200015

SEMIVOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	2FBP	#	2FP	#	NBZ	#	PHL	#	TBP	#	TPH	#
FTA-MW-5-061814	SH4401-10		64.1		28.2		62.6		19.4		76.2		79.5	
FTA-MW-203-061814	SH4401-12		61.8		27.1		55.1		19.0		81.7		75.7	
FTA-GW-DUP01-061814	SH4401-14		67.8		33.3		63.4		22.2		88.4		90.3	
FTA-MW-218-061814	SH4401-16		57.5		34.8		55.4		22.1		78.4		81.2	
FTA-MW-206-061814	SH4401-18		57.3		26.4		52.5		16.1		74.9		76.8	
FTA-MW-9-061714	SH4401-2		69.3		0.00	*	65.4		0.00	*	18.5	*	76.7	
FTA-MW-14-061714	SH4401-20		58.9		28.1		54.2		18.7		89.9		95.5	
FTA-MW-9-061714	SH4401-2RE		64.0		0.00	*	62.0		0.00	*	21.1	*	75.0	
FTA-MW-10-061714	SH4401-4		58.1		23.2		54.8		13.7		64.1		65.6	
FTA-MW-11-061714	SH4401-6		57.3		20.1		54.7		15.7		47.3		34.9	*
FTA-MW-11-061714	SH4401-6RE		69.6		38.4		64.6		26.2		83.9		86.8	
FTA-MW-12-061714	SH4401-8		65.4		14.5	*	61.3		9.06	*	36.4	*	89.8	
FTA-MW-12-061714	SH4401-8RE		68.9		24.9		64.0		16.1		70.3		102.	
FTA-SW-01-061914	SH4521-10		61.8		39.4		57.5		26.1		88.0		94.9	
FTA-SW-02-061914	SH4521-12		58.2		37.6		58.8		24.2		79.1		76.4	
FTA-SW-03-061914	SH4521-14		61.6		38.4		56.9		26.0		89.4		76.0	
FTA-SW-06-061914	SH4521-16		60.5		27.1		57.6		20.3		76.2		60.7	
FTA-SW-07-061914	SH4521-18		69.2		40.2		65.0		26.5		102.		74.3	
FTA-MW-208-061814	SH4521-2		58.0		31.8		54.5		19.7		78.9		88.9	
FTA-SW-08-061914	SH4521-20		61.5		37.4		58.0		25.0		88.6		67.1	
FTA-SW-DUP01-061914	SH4521-22		57.7		30.2		55.1		21.1		87.2		62.3	
FTA-SD-RB01-062014	SH4521-24		77.0		43.9		74.5		29.0		73.0		76.7	
FTA-MW-1-061814	SH4521-4		62.1		35.1		57.2		23.3		71.6		96.2	
FTA-GW-DUP02-061814	SH4521-6		72.3		40.9		68.3		26.8		88.9		89.5	
FTA-MW-210-061814	SH4521-8		66.9		33.7		59.6		21.9		101.		92.0	
Method Blank Sample	WG145277-1		78.2		50.8		76.1		33.5		89.4		92.4	
Laboratory Control S	WG145277-2		77.2		43.7		73.8		27.5		89.8		94.6	
Laboratory Control S	WG145277-3		80.0		45.7		75.9		29.8		99.8		103.	
Method Blank Sample	WG145380-1		69.2		42.7		66.0		27.9		84.2		79.5	
Laboratory Control S	WG145380-2		79.1		41.7		70.9		26.8		83.4		111.	
Laboratory Control S	WG145380-3		87.5		50.4		75.3		35.8		95.3		122.	
Matrix Spike	WG145380-4		75.2		42.6		67.3		28.8		95.9		90.4	
Matrix Spike Duplica	WG145380-5		69.8		36.8		59.8		25.9		92.9		92.5	
Matrix Spike	WG145380-6		82.1		45.0		75.0		31.4		102.		89.1	
Matrix Spike Duplica	WG145380-7		59.1		28.7		63.7		21.9		84.1		54.5	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

		QC Limits
2FBP	2-FLUOROBIPHENYL	50-110
2FP	2-FLUOROPHENOL	20-110
PHL	PHENOL-D6	10-115
TPH	TERPHENYL-D14	50-135
NBZ	NITROBENZENE-D5	40-110
TBP	2,4,6-TRIBROMOPHENOL	40-125

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : U6210.D
Instrument ID : GCMS-U
Matrix : AQ

SDG : WE53-7
Lab Sample ID : WG145277-1
Date Extracted : 23-JUN-14
Date Analyzed : 30-JUN-14
Time Analyzed : 17:44

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145277-2	U6219.D	07/01/14	00:14
Laboratory Control S	WG145277-3	U6220.D	07/01/14	00:57
FTA-MW-10-061714	SH4401-4	U6288.D	07/04/14	02:16
FTA-MW-9-061714	SH4401-2	U6384.D	07/11/14	13:07
FTA-MW-11-061714	SH4401-6	U6385.D	07/11/14	13:49
FTA-MW-12-061714	SH4401-8	U6386.D	07/11/14	14:32
FTA-MW-5-061814	SH4401-10	U6387.D	07/11/14	15:15
FTA-MW-203-061814	SH4401-12	U6388.D	07/11/14	15:58
FTA-GW-DUP01-061814	SH4401-14	U6389.D	07/11/14	16:41
FTA-MW-218-061814	SH4401-16	U6390.D	07/11/14	17:24
FTA-MW-206-061814	SH4401-18	U6391.D	07/11/14	18:07
FTA-MW-14-061714	SH4401-20	U6392.D	07/11/14	18:49

Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : U6209.D
Instrument ID : GCMS-U
Matrix : AQ

SDG : WE53-7
Lab Sample ID : WG145380-1
Date Extracted : 25-JUN-14
Date Analyzed : 30-JUN-14
Time Analyzed : 17:00

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145380-2	U6241.D	07/01/14	20:50
Laboratory Control S	WG145380-3	U6242.D	07/01/14	21:33
FTA-MW-208-061814	SH4521-2	U6393.D	07/11/14	19:32
FTA-MW-1-061814	SH4521-4	U6394.D	07/11/14	20:15
FTA-GW-DUP02-061814	SH4521-6	U6395.D	07/11/14	20:57
FTA-SW-01-061914	SH4521-10	U6396.D	07/11/14	21:40
FTA-MW-210-061814	SH4521-8	U6404.D	07/12/14	11:49
Matrix Spike	WG145380-4	U6405.D	07/12/14	12:32
Matrix Spike Duplica	WG145380-5	U6406.D	07/12/14	13:15
FTA-SW-02-061914	SH4521-12	U6408.D	07/12/14	14:40
FTA-SW-03-061914	SH4521-14	U6409.D	07/12/14	15:22
Matrix Spike	WG145380-6	U6410.D	07/12/14	16:05
Matrix Spike Duplica	WG145380-7	U6411.D	07/12/14	16:47
FTA-SW-06-061914	SH4521-16	U6412.D	07/12/14	17:30
FTA-SW-07-061914	SH4521-18	U6413.D	07/12/14	18:13
FTA-SW-08-061914	SH4521-20	U6414.D	07/12/14	18:55
FTA-SW-DUP01-061914	SH4521-22	U6415.D	07/12/14	19:38
FTA-SD-RB01-062014	SH4521-24	U6421.D	07/14/14	12:27
FTA-MW-9-061714	SH4401-2RE	U6422.D	07/14/14	13:10
FTA-MW-11-061714	SH4401-6RE	U6423.D	07/14/14	13:54
FTA-MW-12-061714	SH4401-8RE	U6424.D	07/14/14	14:37

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD163.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 30-JUN-14
Time Analyzed : 09:48

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	31.7		
68	Less than 2.0% of mass 69	0.4	1.08	1
69	Less than 100.0% of mass 198	38.3		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	44.6		
197	Less than 1.0% of mass 198	0.2		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 30.0% of mass 198	19.9		
365	1.0 - 100.0% of mass 198	2.3		
441	0.0 - 100.0% of mass 443	10.0	84.75	2
442	40.0 - 100.0% of mass 198	62.4		
443	17.0 - 23.0% of mass 442	11.9	18.98	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG145667-4	U6200.D	06/30/14	10:09
Initial Calibration	WG145667-2	U6201.D	06/30/14	10:56
Initial Calibration	WG145667-3	U6202.D	06/30/14	11:40
Initial Calibration	WG145667-5	U6203.D	06/30/14	12:23
Initial Calibration	WG145667-6	U6204.D	06/30/14	13:06
Initial Calibration	WG145667-7	U6205.D	06/30/14	13:49
Independent Source	WG145667-8	U6206.D	06/30/14	14:32

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD164.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 30-JUN-14
Time Analyzed : 15:13

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	31.8		
68	Less than 2.0% of mass 69	0.4	1.02	1
69	Less than 100.0% of mass 198	37.8		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	44.5		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.9		
275	10.0 - 30.0% of mass 198	21.5		
365	1.0 - 100.0% of mass 198	2.3		
441	0.0 - 100.0% of mass 443	13.1	84.54	2
442	40.0 - 100.0% of mass 198	80.7		
443	17.0 - 23.0% of mass 442	15.4	19.12	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145703-2	U6207.D	06/30/14	15:33
Method Blank Sample	WG145380-1	U6209.D	06/30/14	17:00
Method Blank Sample	WG145277-1	U6210.D	06/30/14	17:44
Laboratory Control S	WG145277-2	U6219.D	07/01/14	00:14
Laboratory Control S	WG145277-3	U6220.D	07/01/14	00:57

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD165.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 01-JUL-14
Time Analyzed : 13:13

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	30.5		
68	Less than 2.0% of mass 69	0.5	1.22	1
69	Less than 100.0% of mass 198	37.2		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	44.0		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	20.0		
365	1.0 - 100.0% of mass 198	2.2		
441	0.0 - 100.0% of mass 443	11.9	85.31	2
442	40.0 - 100.0% of mass 198	72.4		
443	17.0 - 23.0% of mass 442	13.9	19.25	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145731-2	U6231.D	07/01/14	13:32
Laboratory Control S	WG145380-2	U6241.D	07/01/14	20:50
Laboratory Control S	WG145380-3	U6242.D	07/01/14	21:33

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD167.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 03-JUL-14
Time Analyzed : 10:12

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	46.7		
68	Less than 2.0% of mass 69	0.4	0.88	1
69	Less than 100.0% of mass 198	45.7		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	49.2		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.1		
275	10.0 - 30.0% of mass 198	22.3		
365	1.0 - 100.0% of mass 198	2.8		
441	0.0 - 100.0% of mass 443	10.8	86.35	2
442	40.0 - 100.0% of mass 198	66.3		
443	17.0 - 23.0% of mass 442	12.5	18.82	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG145897-4	U6267.D	07/03/14	10:31
Initial Calibration	WG145897-2	U6268.D	07/03/14	11:17
Initial Calibration	WG145897-3	U6269.D	07/03/14	12:01
Initial Calibration	WG145897-5	U6270.D	07/03/14	12:46
Initial Calibration	WG145897-6	U6271.D	07/03/14	13:30
Initial Calibration	WG145897-7	U6272.D	07/03/14	14:15
Independent Source	WG145897-8	U6273.D	07/03/14	14:59

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD168.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 03-JUL-14
Time Analyzed : 15:42

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	48.8		
68	Less than 2.0% of mass 69	0.3	0.74	1
69	Less than 100.0% of mass 198	46.1		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	50.4		
197	Less than 1.0% of mass 198	0.3		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.5		
275	10.0 - 30.0% of mass 198	22.6		
365	1.0 - 100.0% of mass 198	3.2		
441	0.0 - 100.0% of mass 443	12.6	81.31	2
442	40.0 - 100.0% of mass 198	81.7		
443	17.0 - 23.0% of mass 442	15.5	19.00	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145924-2	U6274.D	07/03/14	16:01
FTA-MW-10-061714	SH4401-4	U6288.D	07/04/14	02:16

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD173.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 11-JUL-14
Time Analyzed : 10:21

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	43.2		
68	Less than 2.0% of mass 69	0.3	0.71	1
69	Less than 100.0% of mass 198	40.8		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	46.9		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.9		
275	10.0 - 30.0% of mass 198	23.0		
365	1.0 - 100.0% of mass 198	2.5		
441	0.0 - 100.0% of mass 443	14.3	87.34	2
442	40.0 - 100.0% of mass 198	86.3		
443	17.0 - 23.0% of mass 442	16.3	18.92	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG146330-2	U6381.D	07/11/14	10:40
FTA-MW-9-061714	SH4401-2	U6384.D	07/11/14	13:07
FTA-MW-11-061714	SH4401-6	U6385.D	07/11/14	13:49
FTA-MW-12-061714	SH4401-8	U6386.D	07/11/14	14:32
FTA-MW-5-061814	SH4401-10	U6387.D	07/11/14	15:15
FTA-MW-203-061814	SH4401-12	U6388.D	07/11/14	15:58
FTA-GW-DUP01-061814	SH4401-14	U6389.D	07/11/14	16:41
FTA-MW-218-061814	SH4401-16	U6390.D	07/11/14	17:24
FTA-MW-206-061814	SH4401-18	U6391.D	07/11/14	18:07
FTA-MW-14-061714	SH4401-20	U6392.D	07/11/14	18:49
FTA-MW-208-061814	SH4521-2	U6393.D	07/11/14	19:32
FTA-MW-1-061814	SH4521-4	U6394.D	07/11/14	20:15
FTA-GW-DUP02-061814	SH4521-6	U6395.D	07/11/14	20:57
FTA-SW-01-061914	SH4521-10	U6396.D	07/11/14	21:40

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD174.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 12-JUL-14
Time Analyzed : 07:57

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	47.6		
68	Less than 2.0% of mass 69	0.6	1.33	1
69	Less than 100.0% of mass 198	46.0		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	50.9		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	7.0		
275	10.0 - 30.0% of mass 198	23.2		
365	1.0 - 100.0% of mass 198	2.3		
441	0.0 - 100.0% of mass 443	11.8	85.17	2
442	40.0 - 100.0% of mass 198	74.5		
443	17.0 - 23.0% of mass 442	13.9	18.63	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG146400-2	U6399.D	07/12/14	08:16
FTA-MW-210-061814	SH4521-8	U6404.D	07/12/14	11:49
Matrix Spike	WG145380-4	U6405.D	07/12/14	12:32
Matrix Spike Duplica	WG145380-5	U6406.D	07/12/14	13:15
FTA-SW-02-061914	SH4521-12	U6408.D	07/12/14	14:40
FTA-SW-03-061914	SH4521-14	U6409.D	07/12/14	15:22
Matrix Spike	WG145380-6	U6410.D	07/12/14	16:05
Matrix Spike Duplica	WG145380-7	U6411.D	07/12/14	16:47
FTA-SW-06-061914	SH4521-16	U6412.D	07/12/14	17:30
FTA-SW-07-061914	SH4521-18	U6413.D	07/12/14	18:13
FTA-SW-08-061914	SH4521-20	U6414.D	07/12/14	18:55
FTA-SW-DUP01-061914	SH4521-22	U6415.D	07/12/14	19:38

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : UD175.D
Instrument ID : GCMS-U

SDG : WE53-7
Date Analyzed : 14-JUL-14
Time Analyzed : 09:14

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	44.4		
68	Less than 2.0% of mass 69	0.6	1.54	1
69	Less than 100.0% of mass 198	40.2		
70	Less than 2.0% of mass 69	0.0	0.0	1
127	40.0 - 60.0% of mass 198	48.1		
197	Less than 1.0% of mass 198	0.0		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.5		
275	10.0 - 30.0% of mass 198	24.2		
365	1.0 - 100.0% of mass 198	2.6		
441	0.0 - 100.0% of mass 443	14.7	91.77	2
442	40.0 - 100.0% of mass 198	84.8		
443	17.0 - 23.0% of mass 442	16.0	18.86	3

1-Value is % mass 69
2-Value is % mass 443
3-Value is % mass 442

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG146446-2	U6417.D	07/14/14	09:35
FTA-SD-RB01-062014	SH4521-24	U6421.D	07/14/14	12:27
FTA-MW-9-061714	SH4401-2RE	U6422.D	07/14/14	13:10
FTA-MW-11-061714	SH4401-6RE	U6423.D	07/14/14	13:54
FTA-MW-12-061714	SH4401-8RE	U6424.D	07/14/14	14:37

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145667-4
Lab File ID : U6200.D

SDG: WE53-7
Analytical Date: 06/30/14 10:09
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	309873		8.52		1219522		11.34		681765		15.45	
	Upper Limit	619746		9.02		2439044		11.84		1363530		15.95	
	Lower Limit	154936.5		8.02		609761		10.84		340882.5		14.95	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG145703-2	301382		8.52		1239829		11.34		670741		15.45	
Method Blank Sample	WG145380-1	344822		8.52		1360447		11.34		739636		15.45	
Method Blank Sample	WG145277-1	343614		8.52		1356901		11.34		736288		15.45	
Laboratory Control S	WG145277-2	324416		8.52		1285503		11.34		719625		15.45	
Laboratory Control S	WG145277-3	311581		8.53		1213676		11.34		681792		15.45	
Continuing Calibrati	WG145731-2	306152		8.52		1220603		11.34		637429		15.45	
Laboratory Control S	WG145380-2	330328		8.52		1303089		11.34		733977		15.44	
Laboratory Control S	WG145380-3	330235		8.53		1322385		11.33		732480		15.44	

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.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145667-4
Lab File ID : U6200.D

SDG: WE53-7
Analytical Date: 06/30/14 10:09
Instrument ID: GCMS-U

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	1087358		18.95		841991		25.23		586711		28.34	
	Upper Limit	2174716		19.45		1683982		25.73		1173422		28.84	
	Lower Limit	543679		18.45		420995.5		24.73		293355.5		27.84	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG145703-2	971674		18.95		571956		25.22		434718		28.35	
Method Blank Sample	WG145380-1	1114673		18.94		954899		25.22		671643		28.34	
Method Blank Sample	WG145277-1	1081544		18.94		817215		25.22		602385		28.34	
Laboratory Control S	WG145277-2	1106512		18.95		706379		25.22		489438		28.34	
Laboratory Control S	WG145277-3	1051690		18.95		630771		25.22		447048		28.35	
Continuing Calibrati	WG145731-2	880888		18.95		434876		25.22		309276		28.33	
Laboratory Control S	WG145380-2	1048497		18.94		420875	*	25.21		268197	*	28.33	
Laboratory Control S	WG145380-3	1095087		18.94		430764		25.21		284863	*	28.34	

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.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145897-4
Lab File ID : U6267.D

SDG: WE53-7
Analytical Date: 07/03/14 10:31
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	233471		8.52		933058		11.33		447104		15.44	
	Upper Limit	466942		9.02		1866116		11.83		894208		15.94	
	Lower Limit	116735.5		8.02		466529		10.83		223552		14.94	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG145924-2	248563		8.52		999733		11.33		453717		15.44	
FTA-MW-10-061714	SH4401-4	294123		8.52		1181833		11.32		549390		15.43	
Continuing Calibrati	WG146330-2	275576		8.50		1124091		11.31		575085		15.42	
FTA-MW-9-061714	SH4401-2	244114		8.50		996221		11.31		483857		15.41	
FTA-MW-11-061714	SH4401-6	262434		8.50		1045879		11.30		512500		15.41	
FTA-MW-12-061714	SH4401-8	249050		8.50		1015110		11.30		492455		15.41	
FTA-MW-5-061814	SH4401-10	246375		8.50		983719		11.31		495203		15.41	
FTA-MW-203-061814	SH4401-12	254567		8.50		1017527		11.31		503036		15.41	
FTA-GW-DUP01-0618	SH4401-14	249519		8.50		1024597		11.31		490478		15.41	
FTA-MW-218-061814	SH4401-16	249543		8.50		987040		11.30		484894		15.41	
FTA-MW-206-061814	SH4401-18	251797		8.50		1004021		11.31		496888		15.41	
FTA-MW-14-061714	SH4401-20	236743		8.50		929248		11.30		468568		15.41	
FTA-MW-208-061814	SH4521-2	239336		8.50		954048		11.31		471614		15.41	
FTA-MW-1-061814	SH4521-4	249343		8.50		1001672		11.31		487232		15.41	
FTA-GW-DUP02-0618	SH4521-6	229031		8.50		934465		11.30		455777		15.41	
FTA-SW-01-061914	SH4521-10	219417		8.49		884102		11.30		440321		15.41	
Continuing Calibrati	WG146400-2	246823		8.49		1000261		11.30		487805		15.41	
FTA-MW-210-061814	SH4521-8	241625		8.49		962136		11.30		458089		15.41	
Matrix Spike	WG145380-4	275304		8.50		1111593		11.30		559861		15.41	
Matrix Spike Duplica	WG145380-5	258437		8.50		1038562		11.30		511085		15.41	
FTA-SW-02-061914	SH4521-12	246975		8.49		941443		11.30		476753		15.41	
FTA-SW-03-061914	SH4521-14	254215		8.49		1011928		11.30		491327		15.41	
Matrix Spike	WG145380-6	257073		8.50		1046894		11.30		518523		15.41	
Matrix Spike Duplica	WG145380-7	238467		8.49		970410		11.30		490853		15.41	
FTA-SW-06-061914	SH4521-16	240236		8.49		954572		11.30		469847		15.41	
FTA-SW-07-061914	SH4521-18	242872		8.49		972368		11.30		476340		15.41	
FTA-SW-08-061914	SH4521-20	249341		8.49		1015245		11.30		496648		15.41	
FTA-SW-DUP01-0619	SH4521-22	252736		8.49		1030617		11.30		493905		15.41	

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145897-4
Lab File ID : U6267.D

SDG: WE53-7
Analytical Date: 07/03/14 10:31
Instrument ID: GCMS-U

		PHENANTHRENE-D10		CHRYSENE-D12		PERYLENE-D12	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	784946	18.94	500835	25.21	337999	28.33
	Upper Limit	1569892	19.44	1001670	25.71	675998	28.83
	Lower Limit	392473	18.44	250417.5	24.71	168999.5	27.83
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG145924-2	780749	18.94	545833	25.21	404369	28.34
FTA-MW-10-061714	SH4401-4	917684	18.92	558428	25.20	394420	28.33
Continuing Calibrati	WG146330-2	1062026	18.92	640786	25.19	427729	28.31
FTA-MW-9-061714	SH4401-2	842104	18.91	528005	25.18	382957	28.31
FTA-MW-11-061714	SH4401-6	889246	18.91	666664	25.18	489680	28.31
FTA-MW-12-061714	SH4401-8	836843	18.91	521570	25.18	358785	28.31
FTA-MW-5-061814	SH4401-10	826033	18.91	563155	25.18	401263	28.31
FTA-MW-203-061814	SH4401-12	870352	18.91	531929	25.18	374387	28.31
FTA-GW-DUP01-0618	SH4401-14	858052	18.91	559457	25.18	371811	28.31
FTA-MW-218-061814	SH4401-16	851397	18.91	602673	25.18	409404	28.31
FTA-MW-206-061814	SH4401-18	862739	18.91	594718	25.18	451383	28.31
FTA-MW-14-061714	SH4401-20	830966	18.91	489354	25.18	334992	28.31
FTA-MW-208-061814	SH4521-2	808007	18.91	531888	25.18	395364	28.31
FTA-MW-1-061814	SH4521-4	847707	18.91	489775	25.18	348958	28.31
FTA-GW-DUP02-0618	SH4521-6	806100	18.91	630122	25.18	463014	28.31
FTA-SW-01-061914	SH4521-10	764123	18.90	484735	25.17	339129	28.31
Continuing Calibrati	WG146400-2	907084	18.91	539419	25.19	378561	28.31
FTA-MW-210-061814	SH4521-8	847013	18.90	601304	25.17	396170	28.30
Matrix Spike	WG145380-4	1007827	18.91	627587	25.19	471383	28.31
Matrix Spike Duplica	WG145380-5	896797	18.91	521211	25.18	360791	28.30
FTA-SW-02-061914	SH4521-12	822294	18.90	615327	25.17	382763	28.30
FTA-SW-03-061914	SH4521-14	891388	18.90	640019	25.17	410911	28.30
Matrix Spike	WG145380-6	949437	18.91	554348	25.18	398898	28.31
Matrix Spike Duplica	WG145380-7	899384	18.91	461254	25.18	313047	28.30
FTA-SW-06-061914	SH4521-16	837863	18.90	460910	25.17	293936	28.30
FTA-SW-07-061914	SH4521-18	868439	18.90	498116	25.17	317555	28.30
FTA-SW-08-061914	SH4521-20	842143	18.90	464420	25.17	318780	28.30
FTA-SW-DUP01-0619	SH4521-22	936300	18.90	599201	25.17	369705	28.30

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145897-4
Lab File ID : U6267.D

SDG: WE53-7
Analytical Date: 07/03/14 10:31
Instrument ID: GCMS-U

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.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145897-4
Lab File ID : U6267.D

SDG: WE53-7
Analytical Date: 07/03/14 10:31
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4			NAPHTHALENE-D8			ACENAPHTHENE-D10		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	233471		8.52		933058		11.33		447104		15.44	
	Upper Limit	466942		9.02		1866116		11.83		894208		15.94	
	Lower Limit	116735.5		8.02		466529		10.83		223552		14.94	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG146446-2	259048		8.49		1015838		11.30		463253		15.41	
FTA-SD-RB01-062014	SH4521-24	222313		8.49		847881		11.30		378080		15.40	
FTA-MW-9-061714	SH4401-2RE	266333		8.49		1058577		11.30		506672		15.40	
FTA-MW-11-061714	SH4401-6RE	241177		8.49		986002		11.30		478275		15.41	
FTA-MW-12-061714	SH4401-8RE	240328		8.49		962435		11.30		459649		15.41	

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.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145897-4
Lab File ID : U6267.D

SDG: WE53-7
Analytical Date: 07/03/14 10:31
Instrument ID: GCMS-U

		PHENANTHRENE-D10			CHRYSENE-D12			PERYLENE-D12		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	784946		18.94		500835		25.21		337999		28.33	
	Upper Limit	1569892		19.44		1001670		25.71		675998		28.83	
	Lower Limit	392473		18.44		250417.5		24.71		168999.5		27.83	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG146446-2	770842		18.91		548653		25.18		426962		28.31	
FTA-SD-RB01-062014	SH4521-24	534094		18.90		366954		25.17		306636		28.30	
FTA-MW-9-061714	SH4401-2RE	803141		18.90		447040		25.17		334312		28.30	
FTA-MW-11-061714	SH4401-6RE	805793		18.90		484294		25.17		375092		28.30	
FTA-MW-12-061714	SH4401-8RE	779330		18.90		427718		25.17		318248		28.30	

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.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6384.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol	*	0.00	%					
Phenol-D6	*	0.00	%					
Nitrobenzene-d5		65.4	%					
2-Fluorobiphenyl		69.3	%					
2,4,6-Tribromophenol	*	18.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6384.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		76.7	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6384.D
Report Date: 15-Jul-2014 15:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6384.D
Lab Smp Id: SH4401-2 Client Smp ID: FTA-MW-9-061714
Inj Date : 11-JUL-2014 13:07 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-2
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

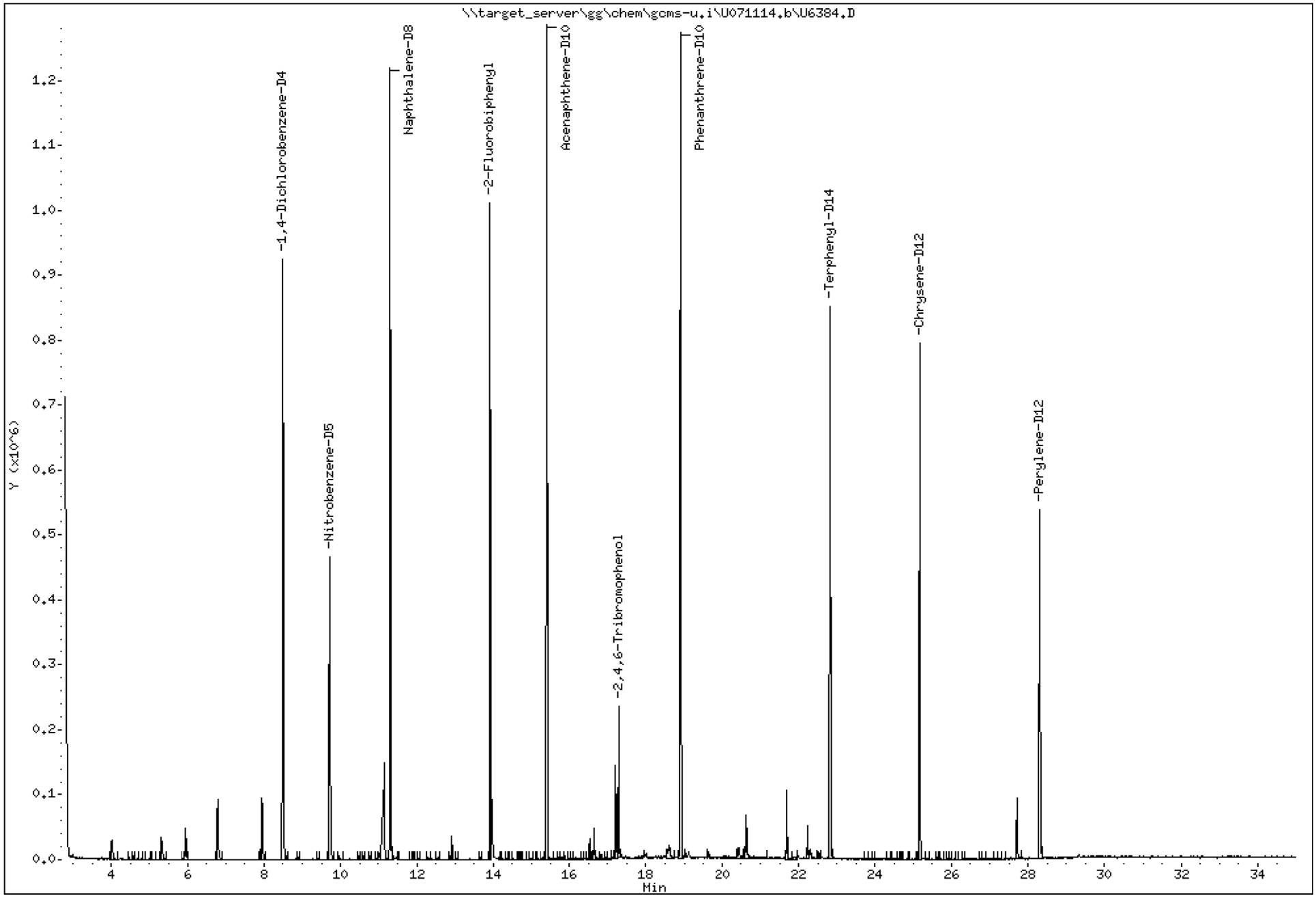
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
* 19 1,4-Dichlorobenzene-D4	152	8.495	8.499	(1.000)	244114	40.0000		
$ 33 Nitrobenzene-D5	82	9.706	9.720	(0.858)	275266	32.7061	30.8	
* 44 Naphthalene-D8	136	11.310	11.314	(1.000)	996221	40.0000		
$ 63 2-Fluorobiphenyl	172	13.919	13.922	(0.903)	471365	34.6450	32.7	
* 78 Acenaphthene-D10	164	15.409	15.423	(1.000)	483857	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.293	17.307	(1.122)	44192	18.4999	17.4(R)	
* 114 Phenanthrene-D10	188	18.907	18.922	(1.000)	842104	40.0000		
$ 129 Terphenyl-D14	244	22.820	22.834	(0.906)	485322	38.3640	36.2	
* 140 Chrysene-D12	240	25.180	25.194	(1.000)	528005	40.0000		
* 149 Perylene-D12	264	28.305	28.309	(1.000)	382957	40.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6384.D
Date : 11-JUL-2014 13:07
Client ID: FTA-MW-9-061714
Instrument: gcms-u.i
Sample Info: SH4401-2



Katahdin Analytical Services 3000028

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2RE
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6422.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol	*	0.00	%					
Phenol-D6	*	0.00	%					
Nitrobenzene-d5		62.0	%					
2-Fluorobiphenyl		64.0	%					
2,4,6-Tribromophenol	*	21.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2RE
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6422.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		75.0	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6422.D
Report Date: 15-Jul-2014 15:43

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071414.b\U6422.D
Lab Smp Id: SH4401-2RE Client Smp ID: FTA-MW-9-061714
Inj Date : 14-JUL-2014 13:10 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-2RE
Misc Info : WG146446,WG145380,WG145897-4
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U071414.b\U8270C60.m
Meth Date : 15-Jul-2014 15:42 gcms-u.i Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

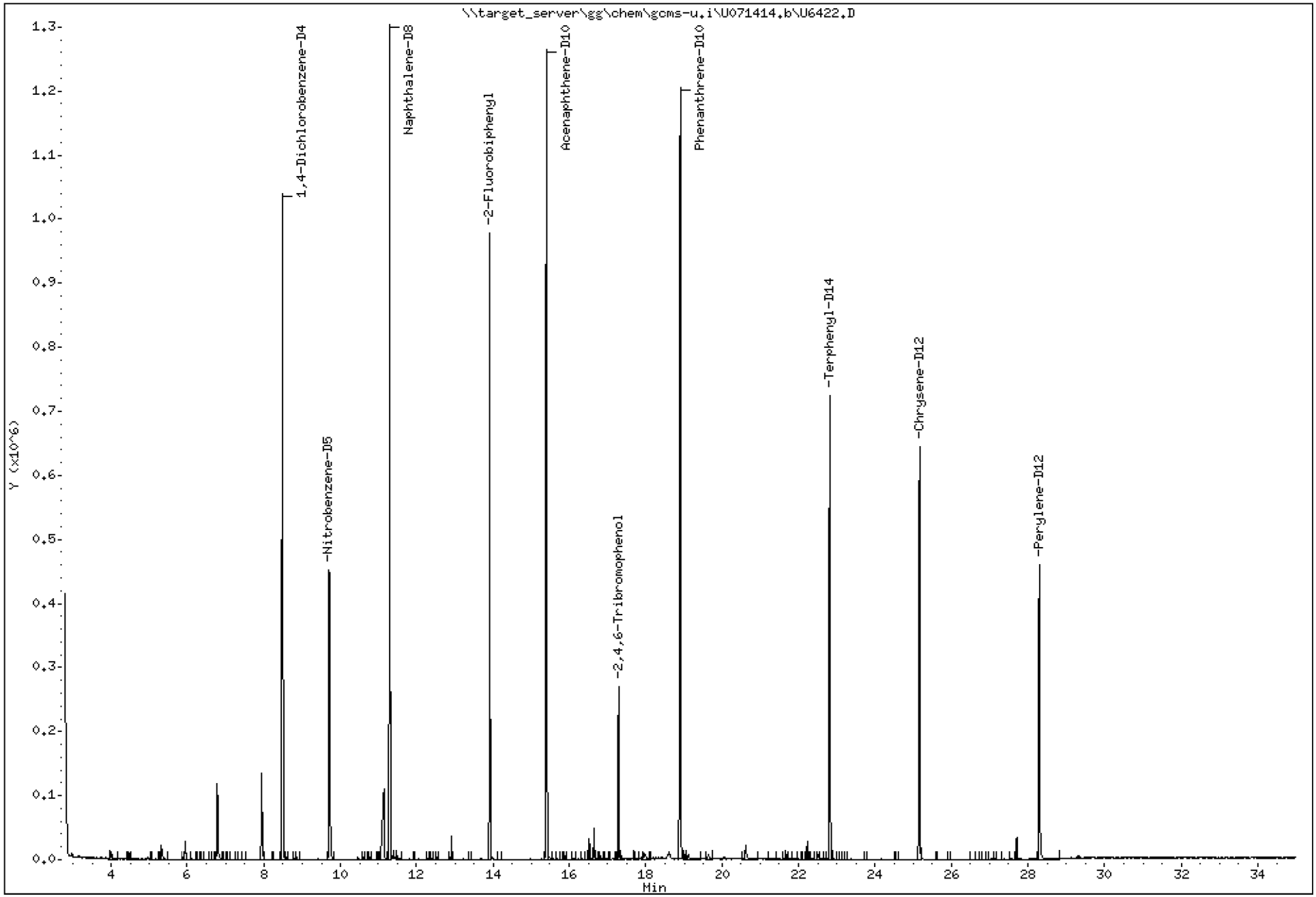
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
* 19 1,4-Dichlorobenzene-D4	152	8.488	8.486	(1.000)	266333	40.0000		
$ 33 Nitrobenzene-D5	82	9.698	9.707	(0.858)	277490	31.0282	29.6	
* 44 Naphthalene-D8	136	11.303	11.301	(1.000)	1058577	40.0000		
$ 63 2-Fluorobiphenyl	172	13.911	13.920	(0.903)	455795	31.9921	30.5	
* 78 Acenaphthene-D10	164	15.401	15.410	(1.000)	506672	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.285	17.294	(1.122)	52847	21.1269	20.1(R)	
* 114 Phenanthrene-D10	188	18.900	18.909	(1.000)	803141	40.0000		
$ 129 Terphenyl-D14	244	22.812	22.821	(0.906)	401607	37.4962	35.7	
* 140 Chrysene-D12	240	25.172	25.181	(1.000)	447040	40.0000		
* 149 Perylene-D12	264	28.298	28.307	(1.000)	334312	40.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6422.D
Date : 14-JUL-2014 13:10
Client ID: FTA-MW-9-061714
Instrument: gcms-u.i
Sample Info: SH4401-2RE



Katahdin Analytical Services 3000032

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6288.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 04-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.2	ug/L	1	10	9.6	1.7	7.2
2-Methylphenol	U	7.2	ug/L	1	10	9.6	3.6	7.2
Isophorone	U	7.2	ug/L	1	10	9.6	1.6	7.2
2-Nitrophenol	U	7.2	ug/L	1	10	9.6	2.6	7.2
2,4-Dimethylphenol	U	7.2	ug/L	1	10	9.6	4.2	7.2
4-Chloro-3-Methylphenol	U	7.2	ug/L	1	10	9.6	3.5	7.2
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Chloronaphthalene	U	7.2	ug/L	1	10	9.6	2.8	7.2
Dimethyl Phthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
Diethylphthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
N-Nitrosodiphenylamine	U	7.2	ug/L	1	10	9.6	3.6	7.2
Carbazole	U	7.2	ug/L	1	10	9.6	2.0	7.2
Di-N-Butylphthalate	U	7.2	ug/L	1	10	9.6	2.4	7.2
Butylbenzylphthalate	U	7.2	ug/L	1	10	9.6	1.8	7.2
Di-N-Octylphthalate	U	7.2	ug/L	1	10	9.6	1.7	7.2
Acetophenone	U	7.2	ug/L	1	10	9.6	3.8	7.2
Caprolactam	ULL	7.2	ug/L	1	10	9.6	0.38	7.2
Benzaldehyde	U	7.2	ug/L	1	10	9.6	0.96	7.2
2,3,4,6-Tetrachlorophenol	U	7.2	ug/L	1	10	9.6	2.6	7.2
4-Bromophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	1.8	7.2
4-Chlorophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	2.1	7.2
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Acenaphthylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Anthracene	U	7.2	ug/L	1	10	9.6	1.6	7.2
Fluorene	U	7.2	ug/L	1	10	9.6	2.0	7.2
Fluoranthene	U	7.2	ug/L	1	10	9.6	2.3	7.2
Benzo(g,h,i)perylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Benzo(k)fluoranthene	U	7.2	ug/L	1	10	9.6	1.5	7.2
Bis(2-Chloroethoxy)Methane	U	7.2	ug/L	1	10	9.6	2.0	7.2
2-Fluorophenol		23.2	%					
Phenol-D6		13.7	%					
Nitrobenzene-d5		54.8	%					
2-Fluorobiphenyl		58.1	%					
2,4,6-Tribromophenol		64.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6288.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 04-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		65.6	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U070314B.b\U6288.D
Report Date: 15-Jul-2014 15:48

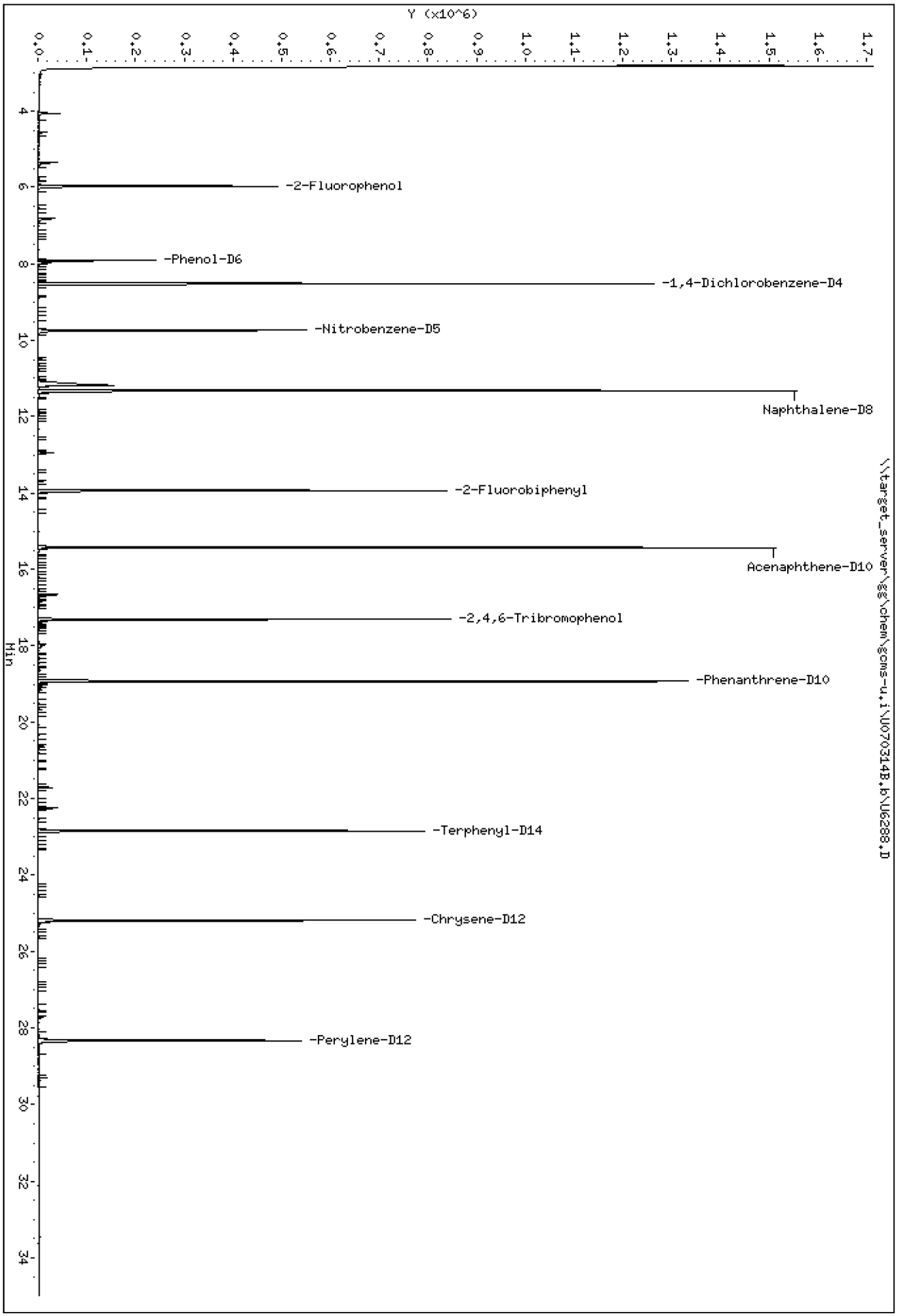
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Data file : \\target_server\gg\chem\gcms-u.i\U070314B.b\U6288.D
Lab Smp Id: SH4401-4 Client Smp ID: FTA-MW-10-061714
Inj Date : 04-JUL-2014 02:16 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-4
Misc Info : WG145924,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U070314B.b\U8270C60.m
Meth Date : 15-Jul-2014 15:33 gcms-u.i Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.040	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.972	5.980	(0.701)	212981	23.1942	22.3	
$ 13 Phenol-D6	99	7.907	7.926	(0.928)	139796	13.7012	13.2	
* 19 1,4-Dichlorobenzene-D4	152	8.518	8.516	(1.000)	294123	40.0000		
$ 33 Nitrobenzene-D5	82	9.729	9.737	(0.859)	273786	27.4213	26.4	
* 44 Naphthalene-D8	136	11.323	11.331	(1.000)	1181833	40.0000		
$ 63 2-Fluorobiphenyl	172	13.941	13.950	(0.903)	448622	29.0402	27.9	
* 78 Acenaphthene-D10	164	15.432	15.440	(1.000)	549390	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.315	17.324	(1.122)	173837	64.0919	61.6	
* 114 Phenanthrene-D10	188	18.920	18.938	(1.000)	917684	40.0000		
$ 129 Terphenyl-D14	244	22.842	22.851	(0.906)	438594	32.7814	31.5	
* 140 Chrysene-D12	240	25.202	25.211	(1.000)	558428	40.0000		
* 149 Perylene-D12	264	28.328	28.336	(1.000)	394420	40.0000		


Y (x10^6)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
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1.2
1.3
1.4
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1.6
1.7
Min
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14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
-Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
\\target_server\gg\chem\gcms-u.i\U070314B.b\U6288.D
Data File: \\target_server\gg\chem\gcms-u.i\U070314B.b\U6288.D
Date : 04-JUL-2014 02:16
Client ID: FTA-MW-10-061714
Sample Info: SH4401-4
Instrument: gcms-u.i

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6385.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		20.1	%					
Phenol-D6		15.7	%					
Nitrobenzene-d5		54.7	%					
2-Fluorobiphenyl		57.3	%					
2,4,6-Tribromophenol		47.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6385.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14	*	34.9	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6385.D
Report Date: 15-Jul-2014 15:37

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Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6385.D
Lab Smp Id: SH4401-6 Client Smp ID: FTA-MW-11-061714
Inj Date : 11-JUL-2014 13:49 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-6
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

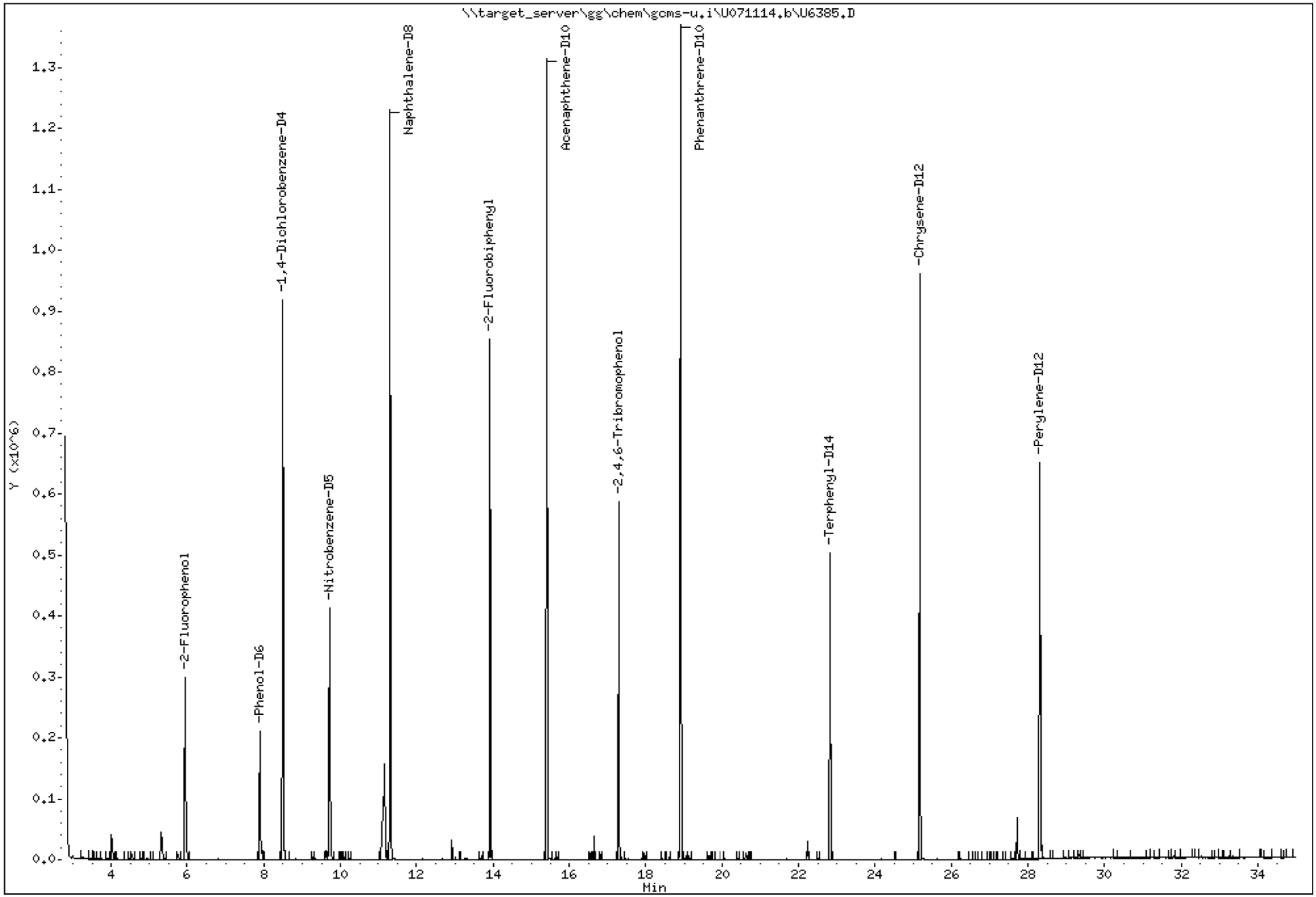
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.953	(0.699)	164825	20.1173	19.2	
$ 13 Phenol-D6	99	7.886	7.909	(0.928)	143165	15.7257	15.0	
* 19 1,4-Dichlorobenzene-D4	152	8.497	8.499	(1.000)	262434	40.0000		
$ 33 Nitrobenzene-D5	82	9.708	9.720	(0.859)	241730	27.3578	26.0	
* 44 Naphthalene-D8	136	11.302	11.314	(1.000)	1045879	40.0000		
$ 63 2-Fluorobiphenyl	172	13.920	13.922	(0.903)	413180	28.6712	27.3	
* 78 Acenaphthene-D10	164	15.411	15.423	(1.000)	512500	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	119664	47.2946	45.0	
* 114 Phenanthrene-D10	188	18.909	18.922	(1.000)	889246	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.834	(0.906)	278711	17.4494	16.6(R)	
* 140 Chrysene-D12	240	25.181	25.194	(1.000)	666664	40.0000		
* 149 Perylene-D12	264	28.307	28.309	(1.000)	489680	40.0000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6385.D
Date : 11-JUL-2014 13:49
Client ID: FTA-MW-11-061714
Instrument: gcms-u.i
Sample Info: SH4401-6



Katahdin Analytical Services 3000040

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6RE
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6423.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		38.4	%					
Phenol-D6		26.2	%					
Nitrobenzene-d5		64.6	%					
2-Fluorobiphenyl		69.6	%					
2,4,6-Tribromophenol		83.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6RE
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6423.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		86.8	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6423.D
Report Date: 15-Jul-2014 15:43

Katahdin Analytical Services

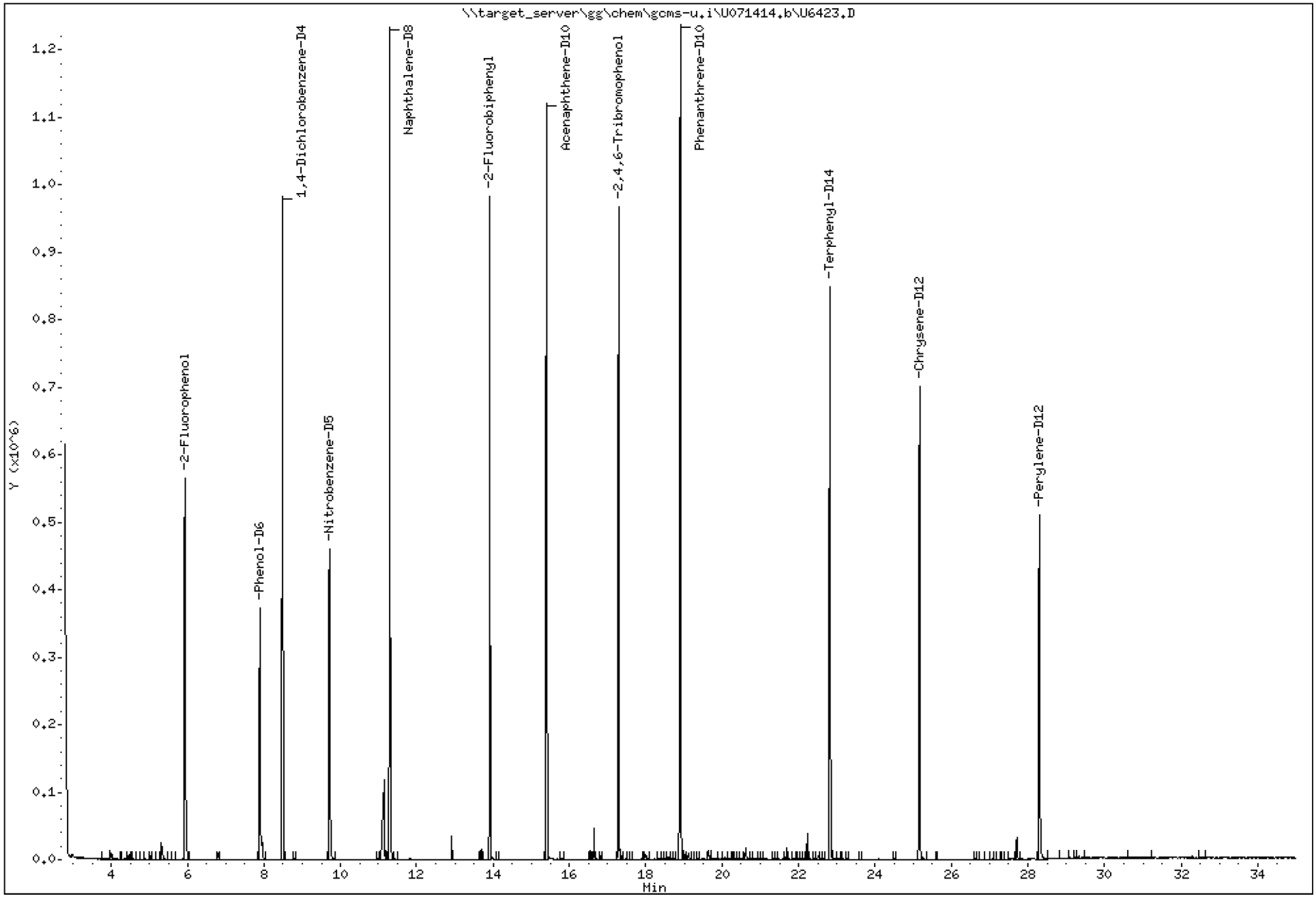
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Lab Smp Id: SH4401-6RE Client Smp ID: FTA-MW-11-061714
Inj Date : 14-JUL-2014 13:54 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-6RE
Misc Info : WG146446,WG145380,WG145897-4
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U071414.b\U8270C60.m
Meth Date : 15-Jul-2014 15:42 gcms-u.i Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.939	5.961	(0.700)	289036	38.3869	36.6	
$ 13 Phenol-D6	99	7.885	7.906	(0.929)	219142	26.1929	24.9	
* 19 1,4-Dichlorobenzene-D4	152	8.485	8.486	(1.000)	241177	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.707	(0.859)	268898	32.2806	30.7	
* 44 Naphthalene-D8	136	11.301	11.301	(1.000)	986002	40.0000		
$ 63 2-Fluorobiphenyl	172	13.909	13.920	(0.903)	467779	34.7827	33.1	
* 78 Acenaphthene-D10	164	15.410	15.410	(1.000)	478275	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.283	17.294	(1.122)	198174	83.9288	79.9	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	805793	40.0000		
$ 129 Terphenyl-D14	244	22.820	22.821	(0.907)	503855	43.4239	41.4	
* 140 Chrysene-D12	240	25.170	25.181	(1.000)	484294	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	375092	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6423.D
Date : 14-JUL-2014 13:54
Client ID: FTA-MW-11-061714
Instrument: gcms-u.i
Sample Info: SH4401-6RE



Katahdin Analytical Services 3000044

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6386.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	8.0	ug/L	1	10	11.	1.9	8.0
2-Methylphenol	U	8.0	ug/L	1	10	11.	4.0	8.0
Isophorone	U	8.0	ug/L	1	10	11.	1.8	8.0
2-Nitrophenol	U	8.0	ug/L	1	10	11.	2.9	8.0
2,4-Dimethylphenol	U	8.0	ug/L	1	10	11.	4.7	8.0
4-Chloro-3-Methylphenol	U	8.0	ug/L	1	10	11.	3.8	8.0
2,4,5-Trichlorophenol	U	20	ug/L	1	25	26.	3.8	20.
2-Chloronaphthalene	U	8.0	ug/L	1	10	11.	3.1	8.0
Dimethyl Phthalate	U	8.0	ug/L	1	10	11.	2.1	8.0
Diethylphthalate	U	8.0	ug/L	1	10	11.	2.1	8.0
N-Nitrosodiphenylamine	U	8.0	ug/L	1	10	11.	3.9	8.0
Carbazole	U	8.0	ug/L	1	10	11.	2.2	8.0
Di-N-Butylphthalate	U	8.0	ug/L	1	10	11.	2.6	8.0
Butylbenzylphthalate	U	8.0	ug/L	1	10	11.	2.0	8.0
Di-N-Octylphthalate	U	8.0	ug/L	1	10	11.	1.9	8.0
Acetophenone	U	8.0	ug/L	1	10	11.	4.1	8.0
Caprolactam	ULL	8.0	ug/L	1	10	11.	0.42	8.0
Benzaldehyde	U	8.0	ug/L	1	10	11.	1.1	8.0
2,3,4,6-Tetrachlorophenol	U	8.0	ug/L	1	10	11.	2.9	8.0
4-Bromophenyl-Phenylether	U	8.0	ug/L	1	10	11.	2.0	8.0
4-Chlorophenyl-Phenylether	U	8.0	ug/L	1	10	11.	2.3	8.0
4-Nitrophenol	U	20	ug/L	1	25	26.	1.9	20.
Acenaphthene	U	8.0	ug/L	1	10	11.	1.6	8.0
Acenaphthylene	U	8.0	ug/L	1	10	11.	1.6	8.0
Anthracene	U	8.0	ug/L	1	10	11.	1.8	8.0
Fluorene	U	8.0	ug/L	1	10	11.	2.2	8.0
Fluoranthene	U	8.0	ug/L	1	10	11.	2.6	8.0
Benzo(g,h,i)perylene	U	8.0	ug/L	1	10	11.	1.6	8.0
Benzo(k)fluoranthene	U	8.0	ug/L	1	10	11.	1.7	8.0
Bis(2-Chloroethoxy)Methane	U	8.0	ug/L	1	10	11.	2.2	8.0
2-Fluorophenol	*	14.5	%					
Phenol-D6	*	9.06	%					
Nitrobenzene-d5		61.3	%					
2-Fluorobiphenyl		65.4	%					
2,4,6-Tribromophenol	*	36.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6386.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		89.8	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6386.D
Report Date: 15-Jul-2014 15:37

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6386.D
Lab Smp Id: SH4401-8 Client Smp ID: FTA-MW-12-061714
Inj Date : 11-JUL-2014 14:32 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-8
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

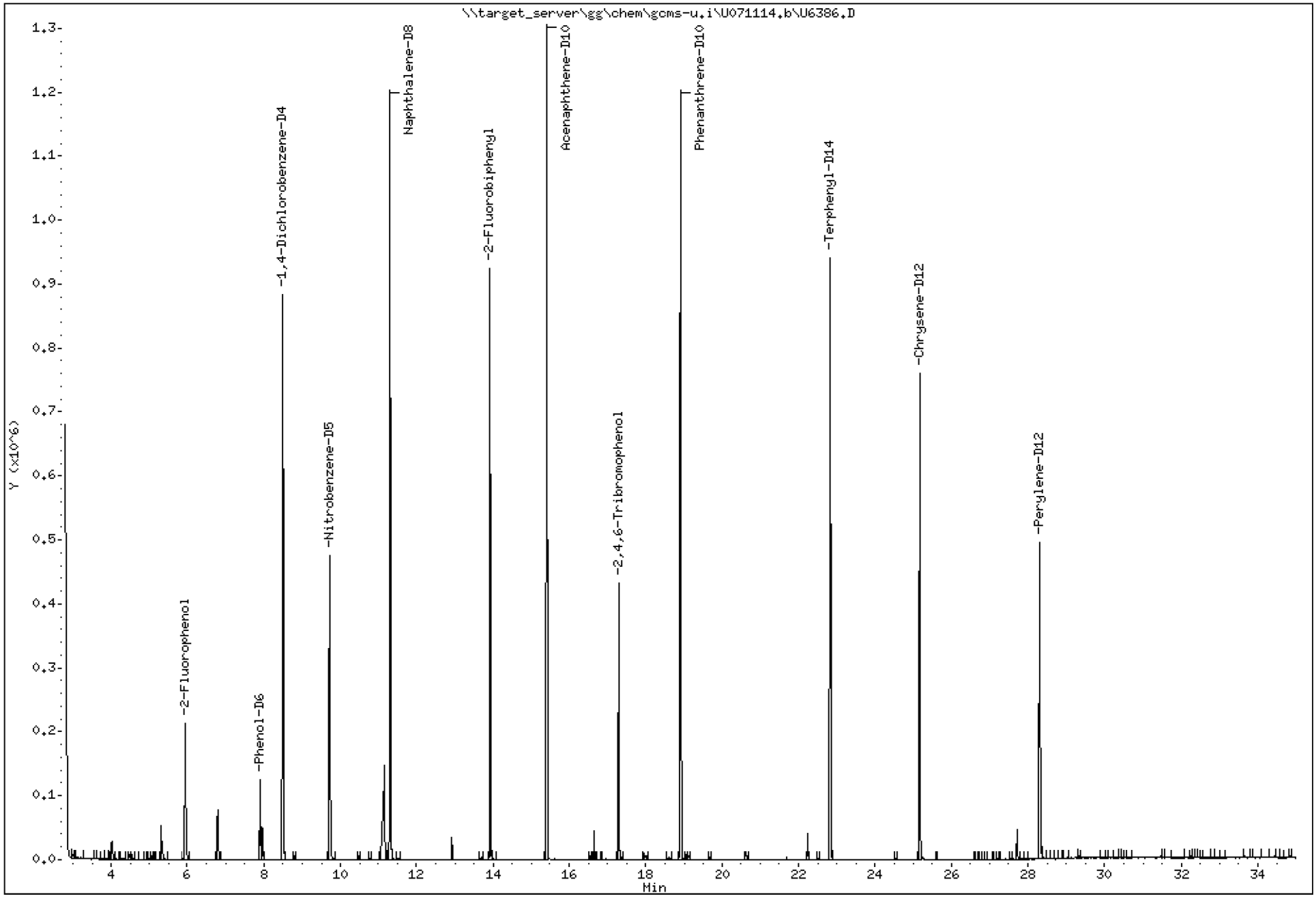
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.94000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.952	5.953	(0.700)	112500	14.4688	15.4(R)	
$ 13 Phenol-D6	99	7.897	7.909	(0.929)	78267	9.05913	9.64(aR)	
* 19 1,4-Dichlorobenzene-D4	152	8.498	8.499	(1.000)	249050	40.0000		
$ 33 Nitrobenzene-D5	82	9.709	9.720	(0.859)	262899	30.6555	32.6	
* 44 Naphthalene-D8	136	11.303	11.314	(1.000)	1015110	40.0000		
$ 63 2-Fluorobiphenyl	172	13.921	13.922	(0.903)	452561	32.6822	34.8	
* 78 Acenaphthene-D10	164	15.412	15.423	(1.000)	492455	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.295	17.307	(1.122)	88467	36.3879	38.7(R)	
* 114 Phenanthrene-D10	188	18.910	18.922	(1.000)	836843	40.0000		
$ 129 Terphenyl-D14	244	22.822	22.834	(0.906)	561285	44.9162	47.8	
* 140 Chrysene-D12	240	25.182	25.194	(1.000)	521570	40.0000		
* 149 Perylene-D12	264	28.308	28.309	(1.000)	358785	40.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6386.D
Date : 11-JUL-2014 14:32
Client ID: FTA-MW-12-061714
Instrument: gcms-u.i
Sample Info: SH4401-8



Katahdin Analytical Services 3000048

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8RE
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6424.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		24.9	%					
Phenol-D6		16.1	%					
Nitrobenzene-d5		64.0	%					
2-Fluorobiphenyl		68.9	%					
2,4,6-Tribromophenol		70.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8RE
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6424.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		102.	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6424.D
Report Date: 15-Jul-2014 15:43

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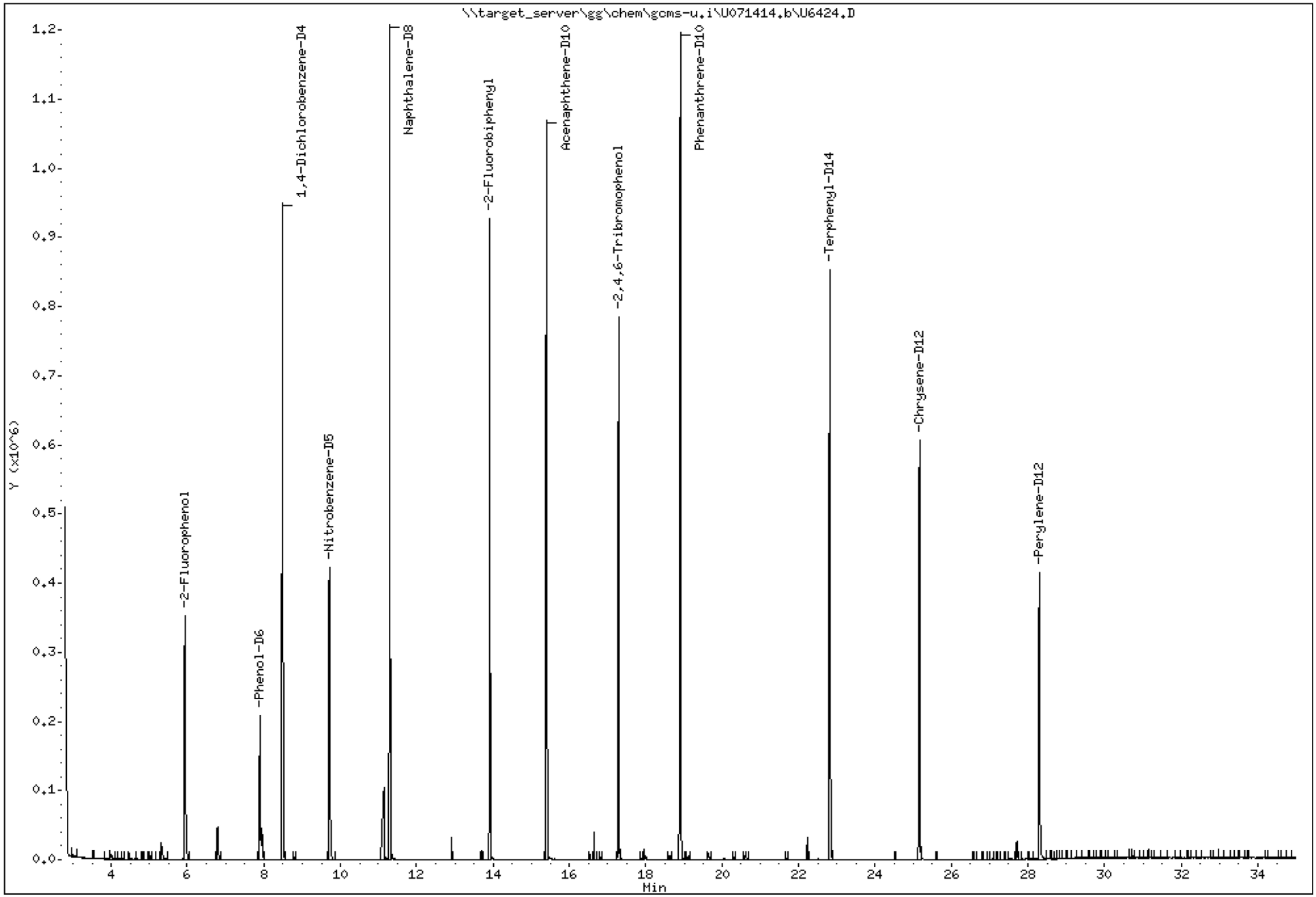
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Lab Smp Id: SH4401-8RE Client Smp ID: FTA-MW-12-061714
Inj Date : 14-JUL-2014 14:37 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-8RE
Misc Info : WG146446,WG145380,WG145897-4
Comment   :
Method   : \\target_server\gg\chem\gcms-u.i\U071414.b\U8270C60.m
Meth Date : 15-Jul-2014 15:42 gcms-u.i Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.961	(0.700)	186541	24.8620	23.7	
$ 13 Phenol-D6	99	7.886	7.906	(0.929)	134176	16.0940	15.3	
* 19 1,4-Dichlorobenzene-D4	152	8.486	8.486	(1.000)	240328	40.0000		
$ 33 Nitrobenzene-D5	82	9.708	9.707	(0.859)	260361	32.0211	30.5	
* 44 Naphthalene-D8	136	11.302	11.301	(1.000)	962435	40.0000		
$ 63 2-Fluorobiphenyl	172	13.910	13.920	(0.903)	445563	34.4733	32.8	
* 78 Acenaphthene-D10	164	15.411	15.410	(1.000)	459649	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.284	17.294	(1.122)	159510	70.2916	66.9	
* 114 Phenanthrene-D10	188	18.899	18.909	(1.000)	779330	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.821	(0.907)	522384	50.9759	48.5	
* 140 Chrysene-D12	240	25.171	25.181	(1.000)	427718	40.0000		
* 149 Perylene-D12	264	28.297	28.307	(1.000)	318248	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6424.D
Date : 14-JUL-2014 14:37
Client ID: FTA-MW-12-061714
Instrument: gcms-u.i
Sample Info: SH4401-8RE



Katahdin Analytical Services 3000052

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6387.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		28.2	%					
Phenol-D6		19.4	%					
Nitrobenzene-d5		62.6	%					
2-Fluorobiphenyl		64.1	%					
2,4,6-Tribromophenol		76.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6387.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		79.5	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6387.D
Report Date: 16-Jul-2014 08:02

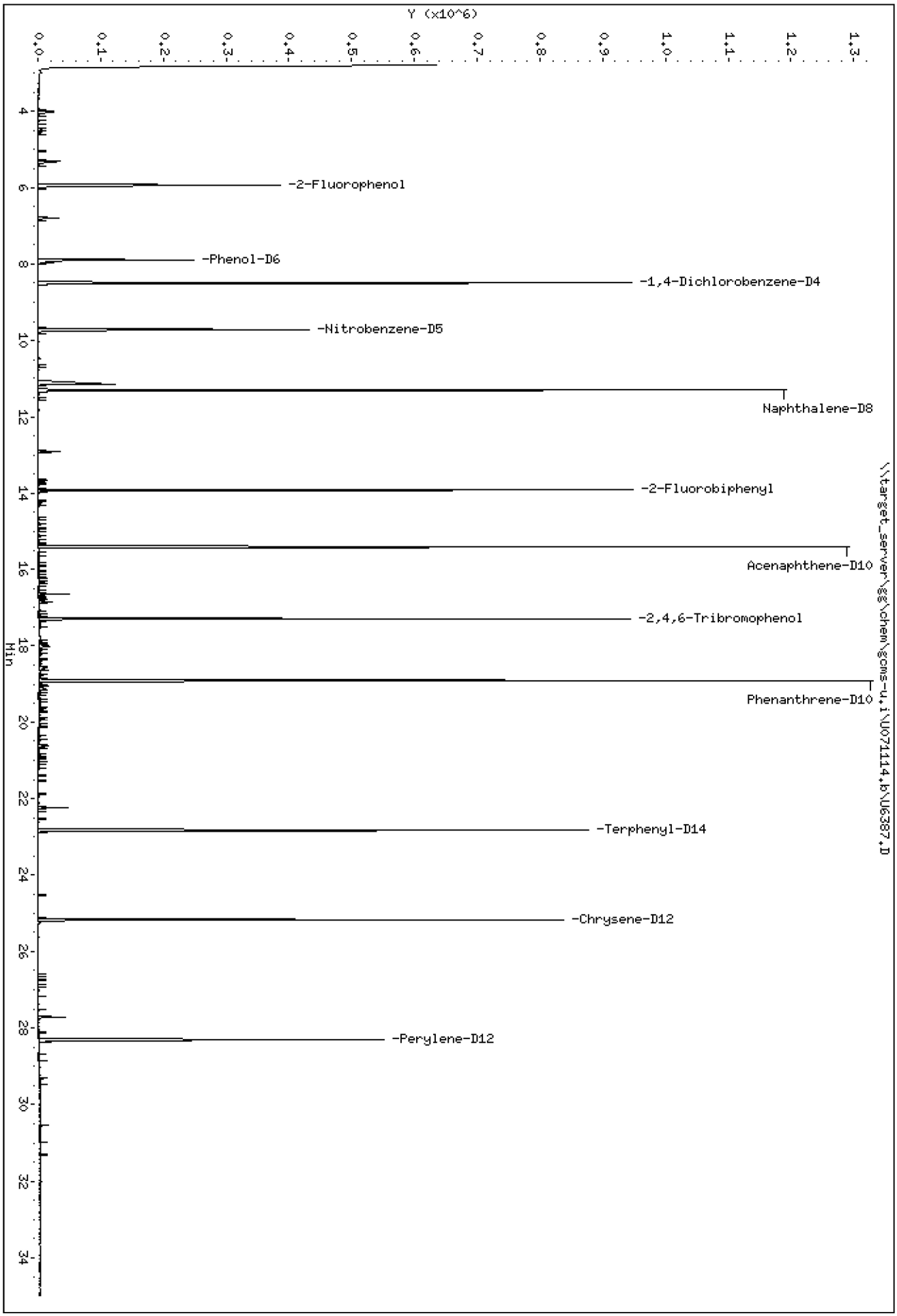
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6387.D
Lab Smp Id: SH4401-10 Client Smp ID: FTA-MW-5-061814
Inj Date : 11-JUL-2014 15:15 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-10
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.949	5.953	(0.700)	217368	28.2596	26.6	
$ 13 Phenol-D6	99	7.895	7.909	(0.929)	165470	19.3605	18.3	
* 19 1,4-Dichlorobenzene-D4	152	8.495	8.499	(1.000)	246375	40.0000		
$ 33 Nitrobenzene-D5	82	9.706	9.720	(0.858)	260160	31.3041	29.5	
* 44 Naphthalene-D8	136	11.310	11.314	(1.000)	983719	40.0000		
$ 63 2-Fluorobiphenyl	172	13.919	13.922	(0.903)	446341	32.0541	30.2	
* 78 Acenaphthene-D10	164	15.409	15.423	(1.000)	495203	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.293	17.307	(1.122)	186436	76.2585	71.9	
* 114 Phenanthrene-D10	188	18.907	18.922	(1.000)	826033	40.0000		
$ 129 Terphenyl-D14	244	22.830	22.834	(0.907)	536578	39.7683	37.5	
* 140 Chrysene-D12	240	25.180	25.194	(1.000)	563155	40.0000		
* 149 Perylene-D12	264	28.305	28.309	(1.000)	401263	40.0000		


Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6387.D
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Client ID: FTA-MW-5-061814
Sample Info: SH4401-10
Instrument: gcms-u.i
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Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6388.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		27.1	%					
Phenol-D6		19.0	%					
Nitrobenzene-d5		55.1	%					
2-Fluorobiphenyl		61.8	%					
2,4,6-Tribromophenol		81.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6388.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		75.7	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6388.D
Report Date: 16-Jul-2014 07:54

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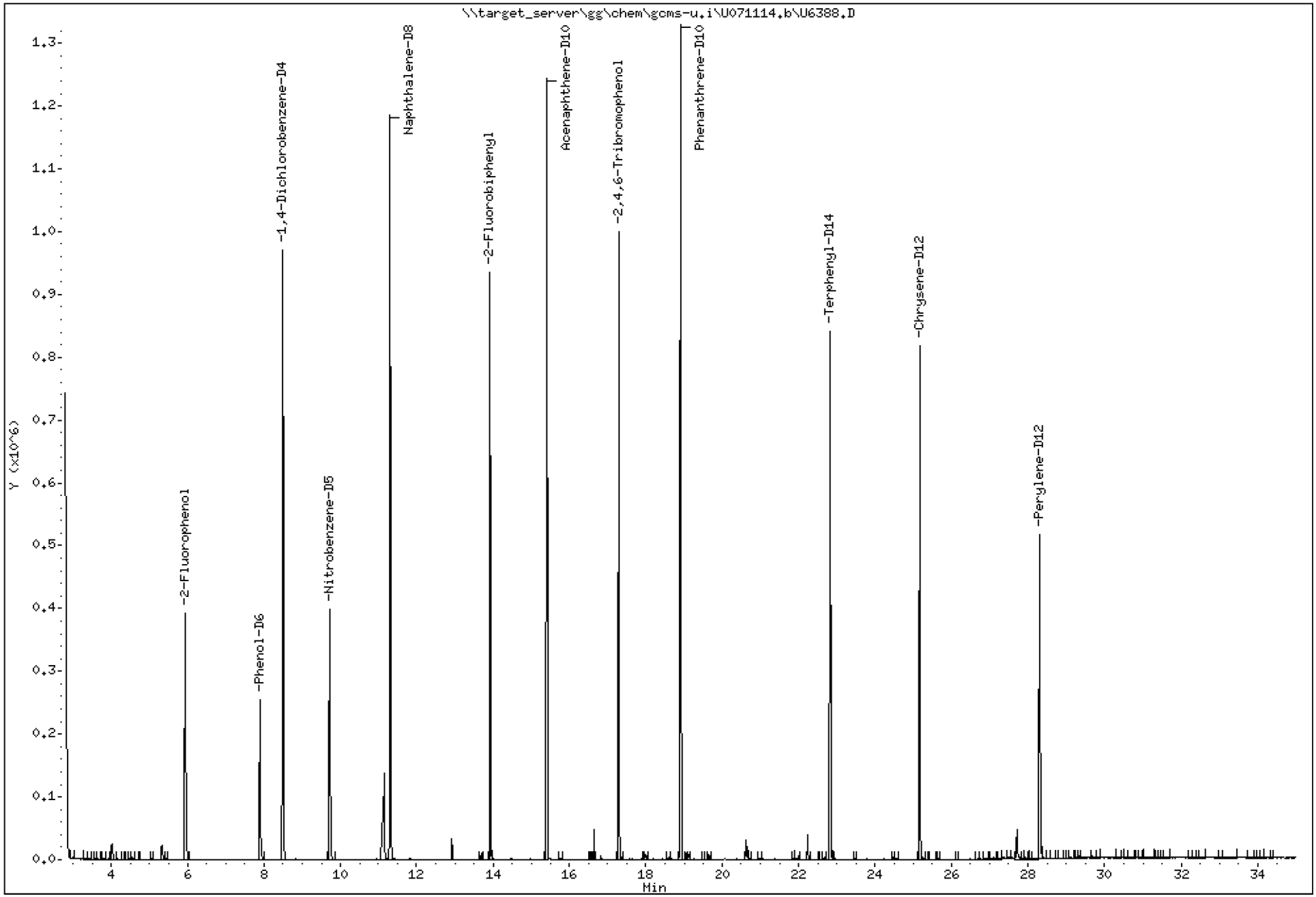
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Inj Date : 11-JUL-2014 15:58 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-12
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.950	5.953	(0.700)	215601	27.1279	25.6	
$ 13 Phenol-D6	99	7.896	7.909	(0.929)	168166	19.0428	18.0	
* 19 1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	254567	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.720	(0.858)	237040	27.5745	26.0	
* 44 Naphthalene-D8	136	11.311	11.314	(1.000)	1017527	40.0000		
$ 63 2-Fluorobiphenyl	172	13.919	13.922	(0.903)	437224	30.9104	29.2	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	503036	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.293	17.307	(1.122)	202891	81.6969	77.1	
* 114 Phenanthrene-D10	188	18.908	18.922	(1.000)	870352	40.0000		
$ 129 Terphenyl-D14	244	22.820	22.834	(0.906)	482579	37.8658	35.7	
* 140 Chrysene-D12	240	25.180	25.194	(1.000)	531929	40.0000		
* 149 Perylene-D12	264	28.306	28.309	(1.000)	374387	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6388.D
Date : 11-JUL-2014 15:58
Client ID: FTA-MW-203-061814
Instrument: gcms-u.i
Sample Info: SH4401-12



Katahdin Analytical Services 3000060

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6389.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		33.3	%					
Phenol-D6		22.2	%					
Nitrobenzene-d5		63.4	%					
2-Fluorobiphenyl		67.8	%					
2,4,6-Tribromophenol		88.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6389.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		90.3	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6389.D
Report Date: 15-Jul-2014 15:37

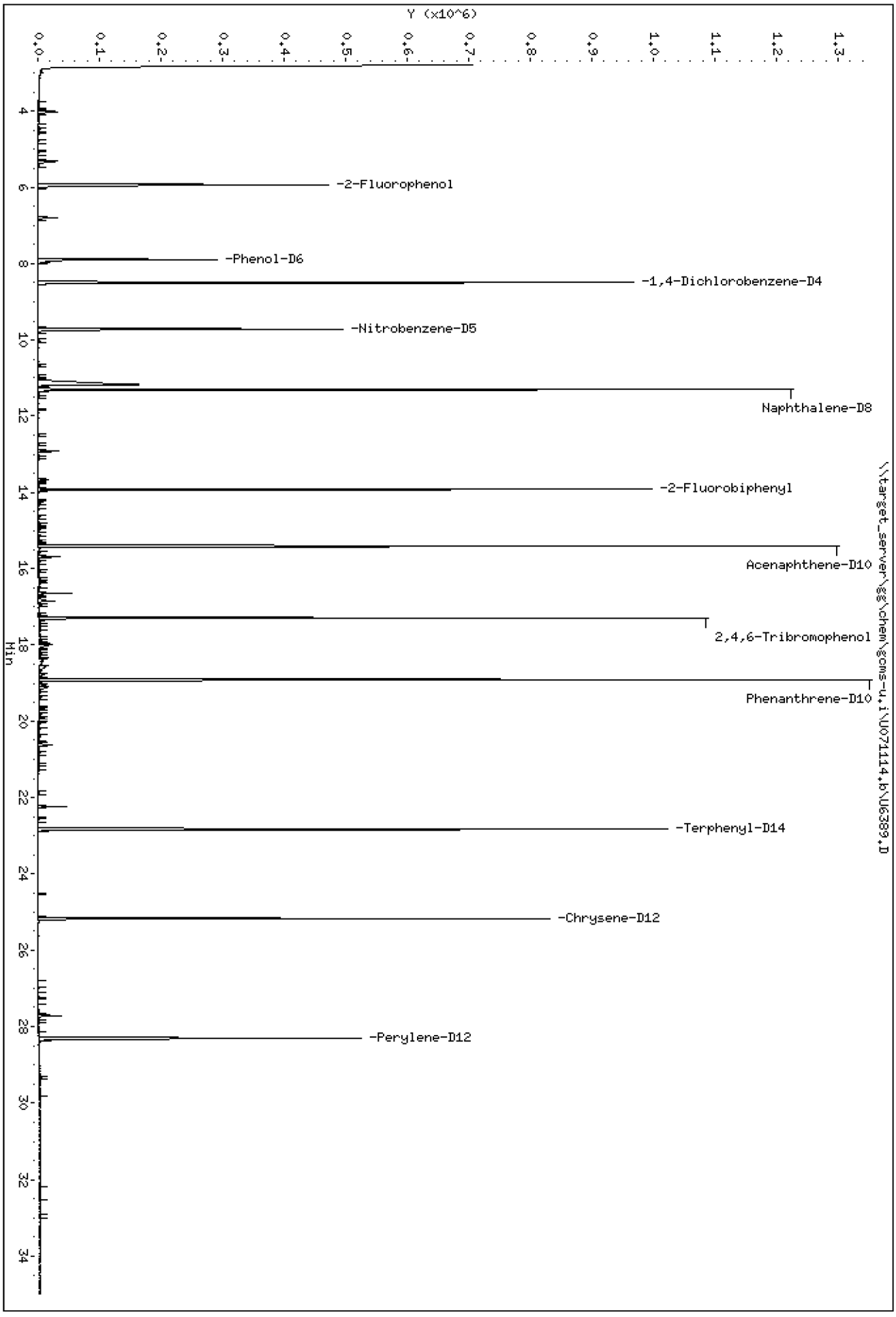
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Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6389.D
Lab Smp Id: SH4401-14 Client Smp ID: FTA-GW-DUP01-061814
Inj Date : 11-JUL-2014 16:41 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-14
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.950	5.953	(0.700)	259141	33.2659	31.4	
$ 13 Phenol-D6	99	7.896	7.909	(0.929)	192038	22.1859	20.9	
* 19 1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	249519	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.720	(0.858)	274410	31.7014	29.9	
* 44 Naphthalene-D8	136	11.311	11.314	(1.000)	1024597	40.0000		
$ 63 2-Fluorobiphenyl	172	13.919	13.922	(0.903)	467820	33.9203	32.0	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	490478	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	213951	88.3561	83.4	
* 114 Phenanthrene-D10	188	18.908	18.922	(1.000)	858052	40.0000		
$ 129 Terphenyl-D14	244	22.831	22.834	(0.907)	605284	45.1570	42.6	
* 140 Chrysene-D12	240	25.180	25.194	(1.000)	559457	40.0000		
* 149 Perylene-D12	264	28.306	28.309	(1.000)	371811	40.0000		


Y (x10^6)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
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Client ID: FTA-GW-DUP01-061814
Sample Info: SH4401-14
Instrument: gcms-u.i
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6390.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.3	ug/L	1	10	9.7	1.7	7.3
2-Methylphenol	U	7.3	ug/L	1	10	9.7	3.7	7.3
Isophorone	U	7.3	ug/L	1	10	9.7	1.6	7.3
2-Nitrophenol	U	7.3	ug/L	1	10	9.7	2.6	7.3
2,4-Dimethylphenol	U	7.3	ug/L	1	10	9.7	4.3	7.3
4-Chloro-3-Methylphenol	U	7.3	ug/L	1	10	9.7	3.5	7.3
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Chloronaphthalene	U	7.3	ug/L	1	10	9.7	2.8	7.3
Dimethyl Phthalate	U	7.3	ug/L	1	10	9.7	2.0	7.3
Diethylphthalate	U	7.3	ug/L	1	10	9.7	1.9	7.3
N-Nitrosodiphenylamine	U	7.3	ug/L	1	10	9.7	3.6	7.3
Carbazole	U	7.3	ug/L	1	10	9.7	2.0	7.3
Di-N-Butylphthalate	U	7.3	ug/L	1	10	9.7	2.4	7.3
Butylbenzylphthalate	U	7.3	ug/L	1	10	9.7	1.8	7.3
Di-N-Octylphthalate	U	7.3	ug/L	1	10	9.7	1.7	7.3
Acetophenone	U	7.3	ug/L	1	10	9.7	3.8	7.3
Caprolactam	ULL	7.3	ug/L	1	10	9.7	0.39	7.3
Benzaldehyde	U	7.3	ug/L	1	10	9.7	0.97	7.3
2,3,4,6-Tetrachlorophenol	U	7.3	ug/L	1	10	9.7	2.6	7.3
4-Bromophenyl-Phenylether	U	7.3	ug/L	1	10	9.7	1.8	7.3
4-Chlorophenyl-Phenylether	U	7.3	ug/L	1	10	9.7	2.1	7.3
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Acenaphthylene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Anthracene	U	7.3	ug/L	1	10	9.7	1.6	7.3
Fluorene	U	7.3	ug/L	1	10	9.7	2.0	7.3
Fluoranthene	U	7.3	ug/L	1	10	9.7	2.3	7.3
Benzo(g,h,i)perylene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Benzo(k)fluoranthene	U	7.3	ug/L	1	10	9.7	1.6	7.3
Bis(2-Chloroethoxy)Methane	U	7.3	ug/L	1	10	9.7	2.0	7.3
2-Fluorophenol		34.8	%					
Phenol-D6		22.1	%					
Nitrobenzene-d5		55.4	%					
2-Fluorobiphenyl		57.5	%					
2,4,6-Tribromophenol		78.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6390.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		81.2	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6390.D
Report Date: 15-Jul-2014 15:37

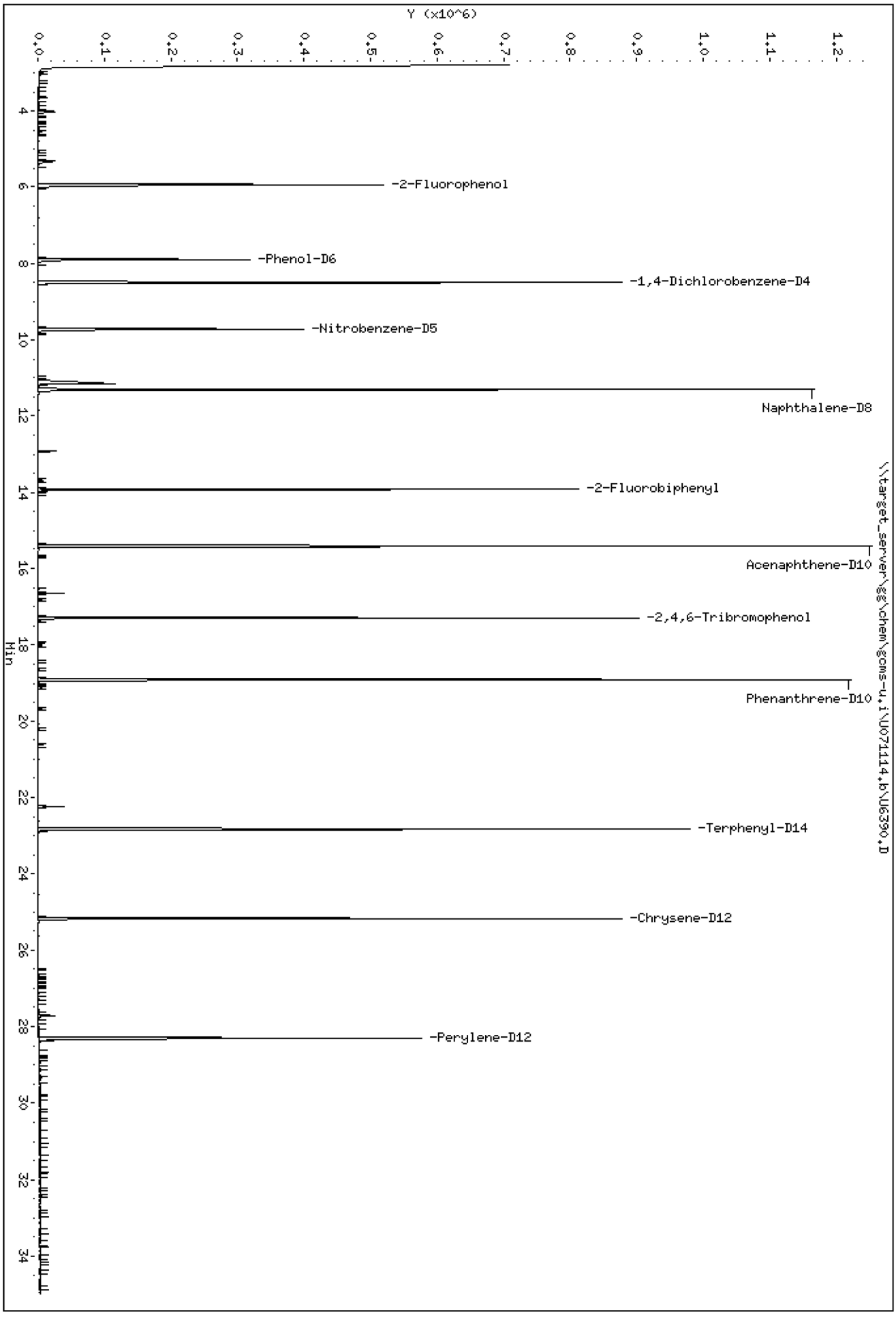
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6390.D
Lab Smp Id: SH4401-16 Client Smp ID: FTA-MW-218-061814
Inj Date : 11-JUL-2014 17:24 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-16
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.030	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.941	5.953	(0.699)	271411	34.8377	33.8	
$ 13 Phenol-D6	99	7.887	7.909	(0.928)	191254	22.0932	21.4	
* 19 1,4-Dichlorobenzene-D4	152	8.498	8.499	(1.000)	249543	40.0000		
$ 33 Nitrobenzene-D5	82	9.709	9.720	(0.859)	230849	27.6838	26.9	
* 44 Naphthalene-D8	136	11.303	11.314	(1.000)	987040	40.0000		
$ 63 2-Fluorobiphenyl	172	13.921	13.922	(0.903)	391969	28.7478	27.9	
* 78 Acenaphthene-D10	164	15.412	15.423	(1.000)	484894	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.296	17.307	(1.122)	187605	78.3681	76.1	
* 114 Phenanthrene-D10	188	18.910	18.922	(1.000)	851397	40.0000		
$ 129 Terphenyl-D14	244	22.822	22.834	(0.906)	585891	40.5758	39.4	
* 140 Chrysene-D12	240	25.182	25.194	(1.000)	602673	40.0000		
* 149 Perylene-D12	264	28.308	28.309	(1.000)	409404	40.0000		


Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6390.D
Date : 11-JUL-2014 17:24
Client ID: FTA-MW-218-061814
Sample Info: SH4401-16
Instrument: gcms-u.i
\\target_server\gg\chem\gcms-u.i\U071114.b\U6390.D
Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6391.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		26.4	%					
Phenol-D6		16.1	%					
Nitrobenzene-d5		52.5	%					
2-Fluorobiphenyl		57.3	%					
2,4,6-Tribromophenol		74.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6391.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		76.8	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6391.D
Report Date: 15-Jul-2014 15:37

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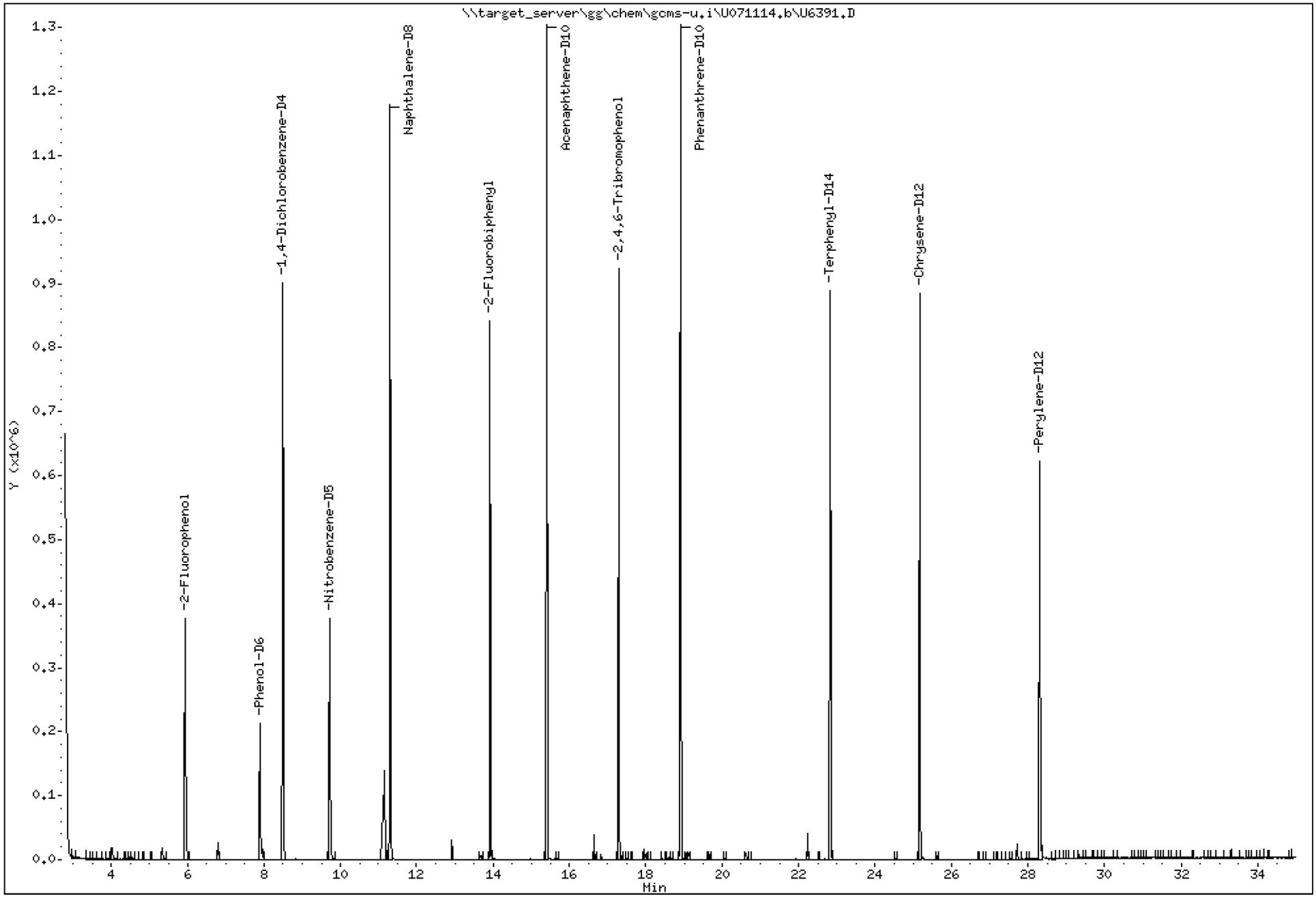
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Lab Smp Id: SH4401-18 Client Smp ID: FTA-MW-206-061814
Inj Date : 11-JUL-2014 18:07 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-18
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8	2-Fluorophenol	112	5.940	5.953	(0.699)	207962	26.4545	25.0	
$ 13	Phenol-D6	99	7.885	7.909	(0.928)	140444	16.0785	15.2	
* 19	1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	251797	40.0000		
$ 33	Nitrobenzene-D5	82	9.707	9.720	(0.858)	222722	26.2574	24.8	
* 44	Naphthalene-D8	136	11.311	11.314	(1.000)	1004021	40.0000		
$ 63	2-Fluorobiphenyl	172	13.920	13.922	(0.903)	400022	28.6303	27.0	
* 78	Acenaphthene-D10	164	15.410	15.423	(1.000)	496888	40.0000		
$ 100	2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	183813	74.9307	70.7	
* 114	Phenanthrene-D10	188	18.908	18.922	(1.000)	862739	40.0000		
$ 129	Terphenyl-D14	244	22.831	22.834	(0.907)	547029	38.3912	36.2	
* 140	Chrysene-D12	240	25.181	25.194	(1.000)	594718	40.0000		
* 149	Perylene-D12	264	28.306	28.309	(1.000)	451383	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6391.D
Date : 11-JUL-2014 18:07
Client ID: FTA-MW-206-061814
Instrument: gcms-u.i
Sample Info: SH4401-18



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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6392.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		28.1	%					
Phenol-D6		18.7	%					
Nitrobenzene-d5		54.2	%					
2-Fluorobiphenyl		58.9	%					
2,4,6-Tribromophenol		89.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6392.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145277

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		95.5	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6392.D
Report Date: 15-Jul-2014 15:37

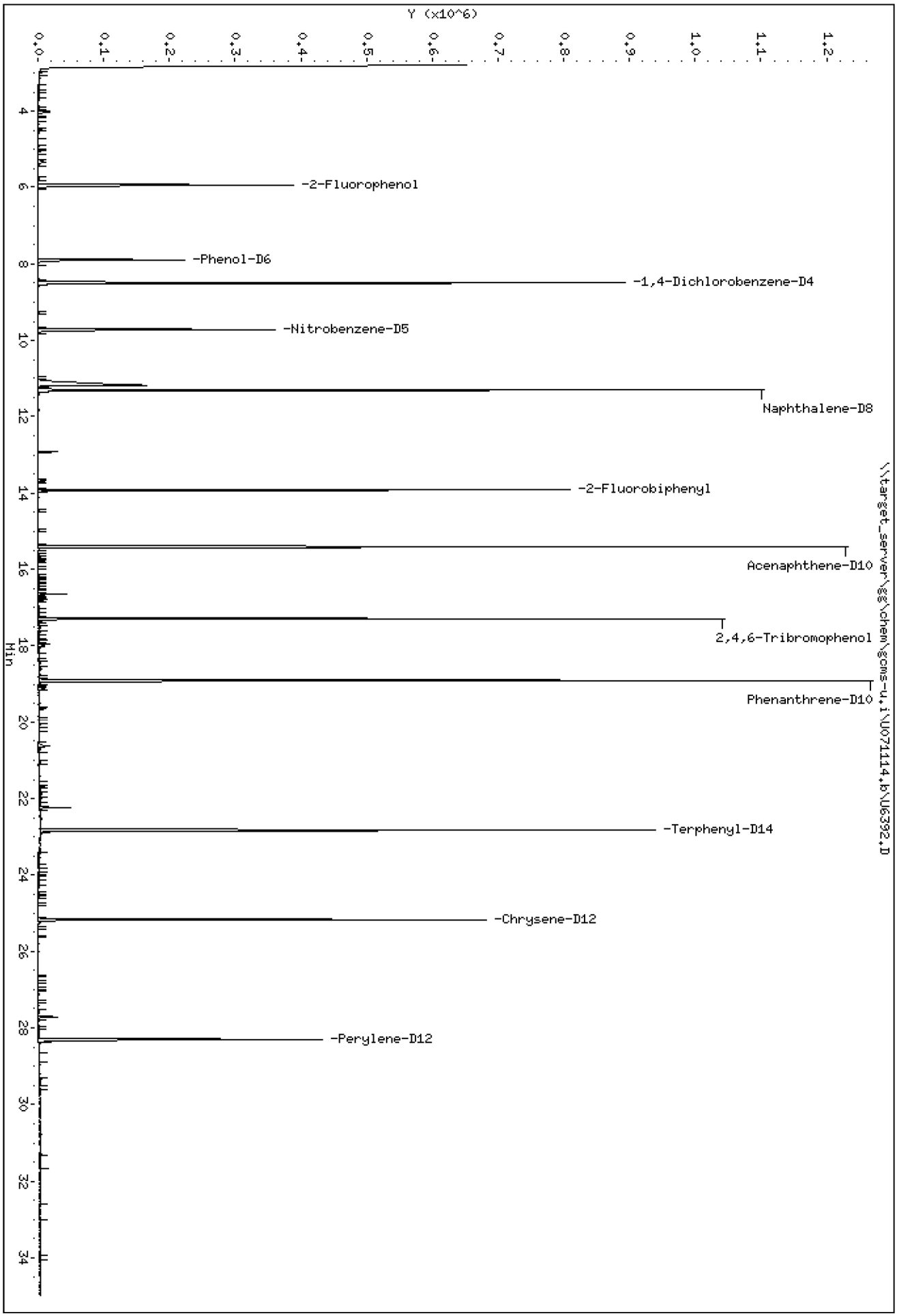
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Data file : \\target_server\gg\chem\gcms-u.i\U071114.b\U6392.D
Lab Smp Id: SH4401-20 Client Smp ID: FTA-MW-14-061714
Inj Date : 11-JUL-2014 18:49 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4401-20
Misc Info : WG146330,WG145277,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.953	(0.699)	207651	28.0947	26.5	
$ 13 Phenol-D6	99	7.886	7.909	(0.928)	153891	18.7383	17.7	
* 19 1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	236743	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.720	(0.859)	212557	27.0755	25.5	
* 44 Naphthalene-D8	136	11.301	11.314	(1.000)	929248	40.0000		
$ 63 2-Fluorobiphenyl	172	13.920	13.922	(0.903)	388032	29.4507	27.8	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	468568	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	208040	89.9324	84.8	
* 114 Phenanthrene-D10	188	18.909	18.922	(1.000)	830966	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.834	(0.906)	560064	47.7691	45.1	
* 140 Chrysene-D12	240	25.181	25.194	(1.000)	489354	40.0000		
* 149 Perylene-D12	264	28.307	28.309	(1.000)	334992	40.0000		


Y (x10^6)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
Min
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
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Date : 11-JUL-2014 18:49
Client ID: FTA-MW-14-061714
Sample Info: SH4401-20
Instrument: gcms-u.i

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6393.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		31.8	%					
Phenol-D6		19.7	%					
Nitrobenzene-d5		54.5	%					
2-Fluorobiphenyl		58.0	%					
2,4,6-Tribromophenol		78.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6393.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		88.9	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6393.D
Report Date: 15-Jul-2014 15:37

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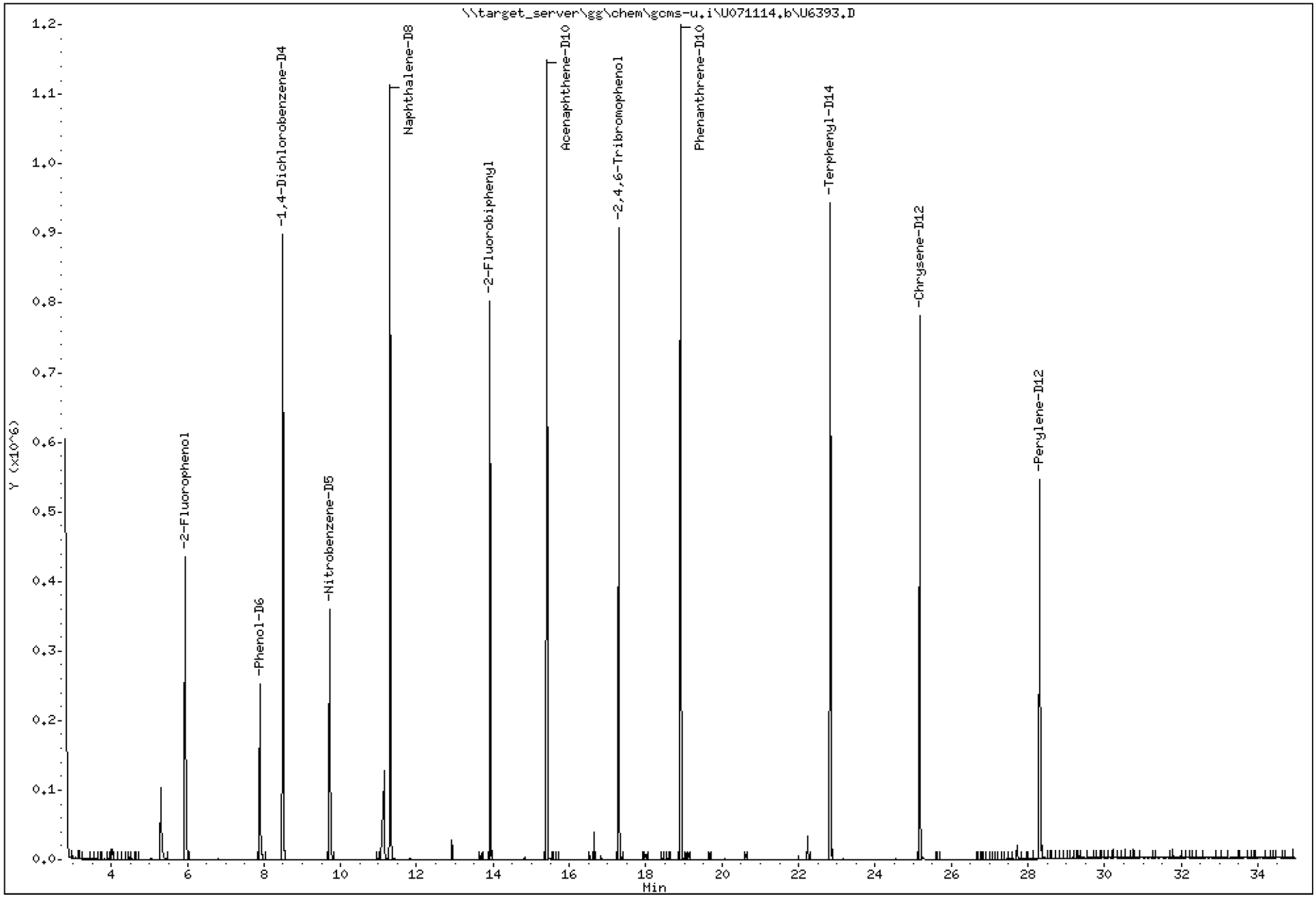
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Lab Smp Id: SH4521-2 Client Smp ID: FTA-MW-208-061814
Inj Date : 11-JUL-2014 19:32 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-2
Misc Info : WG146330,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.950	5.953	(0.700)	237877	31.8355	30.3	
$ 13 Phenol-D6	99	7.885	7.909	(0.928)	163816	19.7307	18.8	
* 19 1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	239336	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.720	(0.858)	219718	27.2601	26.0	
* 44 Naphthalene-D8	136	11.311	11.314	(1.000)	954048	40.0000		
$ 63 2-Fluorobiphenyl	172	13.919	13.922	(0.903)	384462	28.9912	27.6	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	471614	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	183773	78.9291	75.2	
* 114 Phenanthrene-D10	188	18.908	18.922	(1.000)	808007	40.0000		
$ 129 Terphenyl-D14	244	22.831	22.834	(0.907)	566736	44.4726	42.4	
* 140 Chrysene-D12	240	25.180	25.194	(1.000)	531888	40.0000		
* 149 Perylene-D12	264	28.306	28.309	(1.000)	395364	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6393.D
Date : 11-JUL-2014 19:32
Client ID: FTA-MW-208-061814
Instrument: gcms-u.i
Sample Info: SH4521-2



Katahdin Analytical Services 3000080

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6394.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.6	ug/L	1	10	10.	1.8	7.6
2-Methylphenol	U	7.6	ug/L	1	10	10.	3.8	7.6
Isophorone	U	7.6	ug/L	1	10	10.	1.7	7.6
2-Nitrophenol	U	7.6	ug/L	1	10	10.	2.7	7.6
2,4-Dimethylphenol	U	7.6	ug/L	1	10	10.	4.4	7.6
4-Chloro-3-Methylphenol	U	7.6	ug/L	1	10	10.	3.6	7.6
2,4,5-Trichlorophenol	U	19	ug/L	1	25	25.	3.6	19.
2-Chloronaphthalene	U	7.6	ug/L	1	10	10.	2.9	7.6
Dimethyl Phthalate	U	7.6	ug/L	1	10	10.	2.0	7.6
Diethylphthalate	U	7.6	ug/L	1	10	10.	2.0	7.6
N-Nitrosodiphenylamine	U	7.6	ug/L	1	10	10.	3.7	7.6
Carbazole	U	7.6	ug/L	1	10	10.	2.1	7.6
Di-N-Butylphthalate	U	7.6	ug/L	1	10	10.	2.5	7.6
Butylbenzylphthalate	U	7.6	ug/L	1	10	10.	1.9	7.6
Di-N-Octylphthalate	U	7.6	ug/L	1	10	10.	1.8	7.6
Acetophenone	U	7.6	ug/L	1	10	10.	3.9	7.6
Caprolactam	UL	7.6	ug/L	1	10	10.	0.40	7.6
Benzaldehyde	U	7.6	ug/L	1	10	10.	1.0	7.6
2,3,4,6-Tetrachlorophenol	U	7.6	ug/L	1	10	10.	2.7	7.6
4-Bromophenyl-Phenylether	U	7.6	ug/L	1	10	10.	1.9	7.6
4-Chlorophenyl-Phenylether	U	7.6	ug/L	1	10	10.	2.2	7.6
4-Nitrophenol	U	19	ug/L	1	25	25.	1.8	19.
Acenaphthene	U	7.6	ug/L	1	10	10.	1.5	7.6
Acenaphthylene	U	7.6	ug/L	1	10	10.	1.5	7.6
Anthracene	U	7.6	ug/L	1	10	10.	1.7	7.6
Fluorene	U	7.6	ug/L	1	10	10.	2.1	7.6
Fluoranthene	U	7.6	ug/L	1	10	10.	2.4	7.6
Benzo(g,h,i)perylene	U	7.6	ug/L	1	10	10.	1.5	7.6
Benzo(k)fluoranthene	U	7.6	ug/L	1	10	10.	1.6	7.6
Bis(2-Chloroethoxy)Methane	U	7.6	ug/L	1	10	10.	2.1	7.6
2-Fluorophenol		35.1	%					
Phenol-D6		23.3	%					
Nitrobenzene-d5		57.2	%					
2-Fluorobiphenyl		62.1	%					
2,4,6-Tribromophenol		71.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6394.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		96.2	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6394.D
Report Date: 15-Jul-2014 15:37

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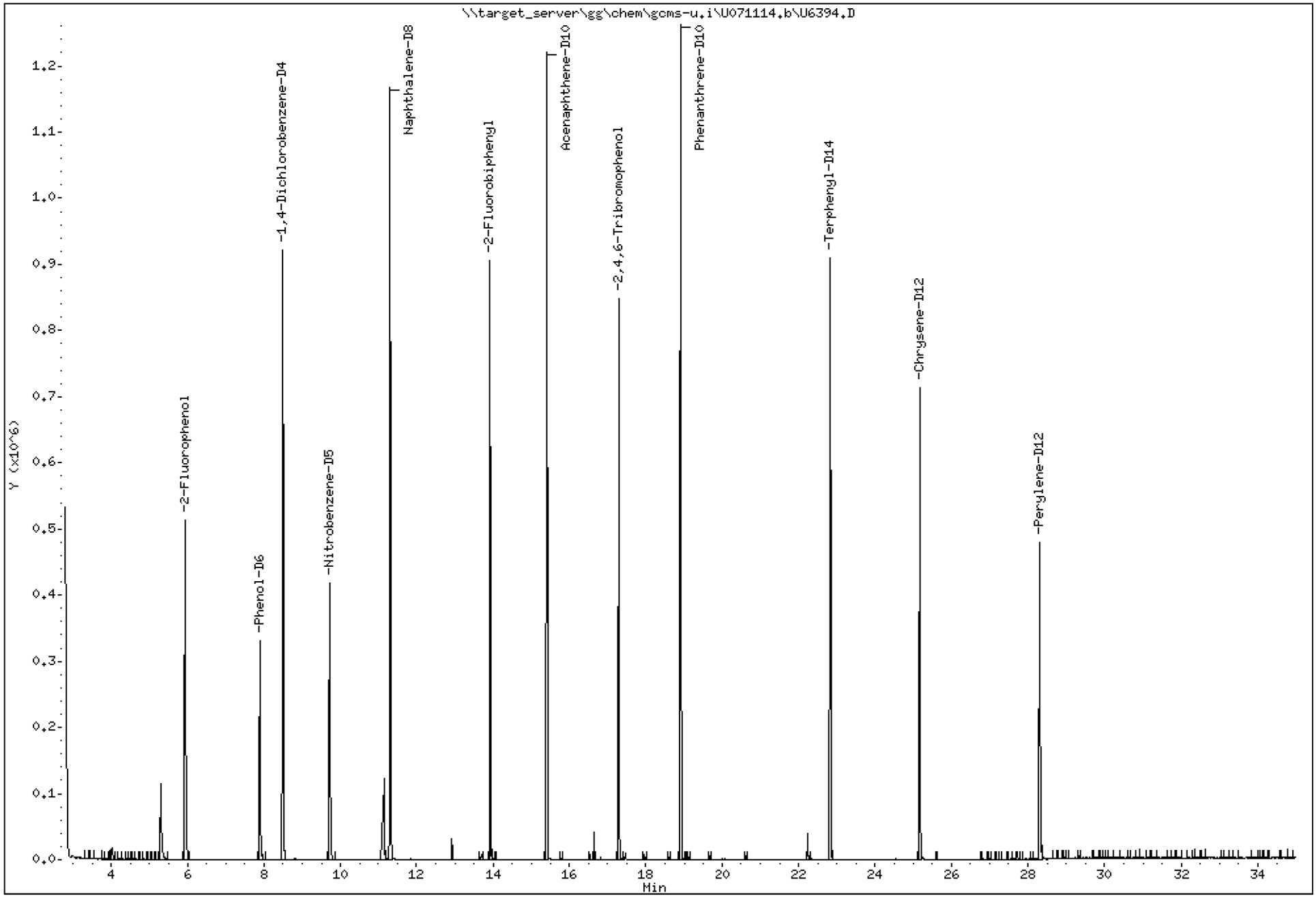
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Inj Date : 11-JUL-2014 20:15 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-4
Misc Info : WG146330,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.99000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.953	(0.699)	273503	35.1343	35.5	
$ 13 Phenol-D6	99	7.886	7.909	(0.928)	201424	23.2867	23.5	
* 19 1,4-Dichlorobenzene-D4	152	8.496	8.499	(1.000)	249343	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.720	(0.858)	242106	28.6096	28.9	
* 44 Naphthalene-D8	136	11.311	11.314	(1.000)	1001672	40.0000		
$ 63 2-Fluorobiphenyl	172	13.920	13.922	(0.903)	425327	31.0447	31.4	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	487232	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	172126	71.5571	72.3	
* 114 Phenanthrene-D10	188	18.908	18.922	(1.000)	847707	40.0000		
$ 129 Terphenyl-D14	244	22.831	22.834	(0.907)	564386	48.0963	48.6	
* 140 Chrysene-D12	240	25.181	25.194	(1.000)	489775	40.0000		
* 149 Perylene-D12	264	28.306	28.309	(1.000)	348958	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6394.D
Date : 11-JUL-2014 20:15
Client ID: FTA-MW-1-061814
Instrument: gcms-u.i
Sample Info: SH4521-4



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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6395.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		40.9	%					
Phenol-D6		26.8	%					
Nitrobenzene-d5		68.3	%					
2-Fluorobiphenyl		72.3	%					
2,4,6-Tribromophenol		88.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6395.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		89.5	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6395.D
Report Date: 15-Jul-2014 15:37

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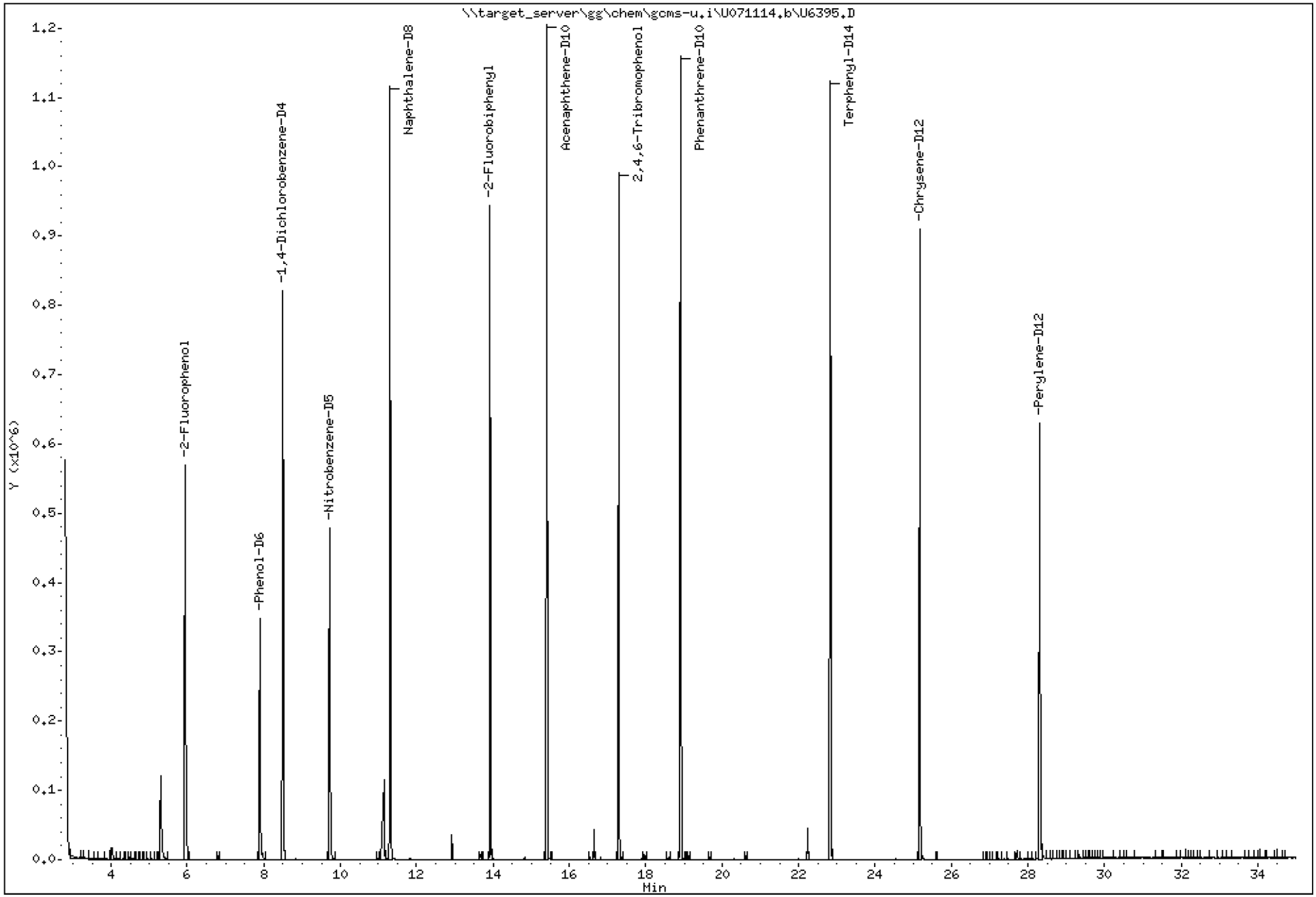
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Inj Date : 11-JUL-2014 20:57 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-6
Misc Info : WG146330,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.953	(0.699)	292312	40.8808	38.9	
$ 13 Phenol-D6	99	7.886	7.909	(0.928)	212550	26.7523	25.5	
* 19 1,4-Dichlorobenzene-D4	152	8.497	8.499	(1.000)	229031	40.0000		
$ 33 Nitrobenzene-D5	82	9.708	9.720	(0.859)	269653	34.1566	32.5	
* 44 Naphthalene-D8	136	11.301	11.314	(1.000)	934465	40.0000		
$ 63 2-Fluorobiphenyl	172	13.920	13.922	(0.903)	463106	36.1350	34.4	
* 78 Acenaphthene-D10	164	15.410	15.423	(1.000)	455777	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.307	(1.122)	200019	88.8916	84.6	
* 114 Phenanthrene-D10	188	18.909	18.922	(1.000)	806100	40.0000		
$ 129 Terphenyl-D14	244	22.831	22.834	(0.907)	675719	44.7583	42.6	
* 140 Chrysene-D12	240	25.181	25.194	(1.000)	630122	40.0000		
* 149 Perylene-D12	264	28.307	28.309	(1.000)	463014	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6395.D
Date : 11-JUL-2014 20:57
Client ID: FTA-GW-DUP02-061814
Instrument: gcms-u.i
Sample Info: SH4521-6



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6404.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	UMM	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	UM	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	ULM	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		33.7	%					
Phenol-D6		21.9	%					
Nitrobenzene-d5		59.6	%					
2-Fluorobiphenyl		66.9	%					
2,4,6-Tribromophenol		101.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6404.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		92.0	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6404.D
Report Date: 15-Jul-2014 15:40

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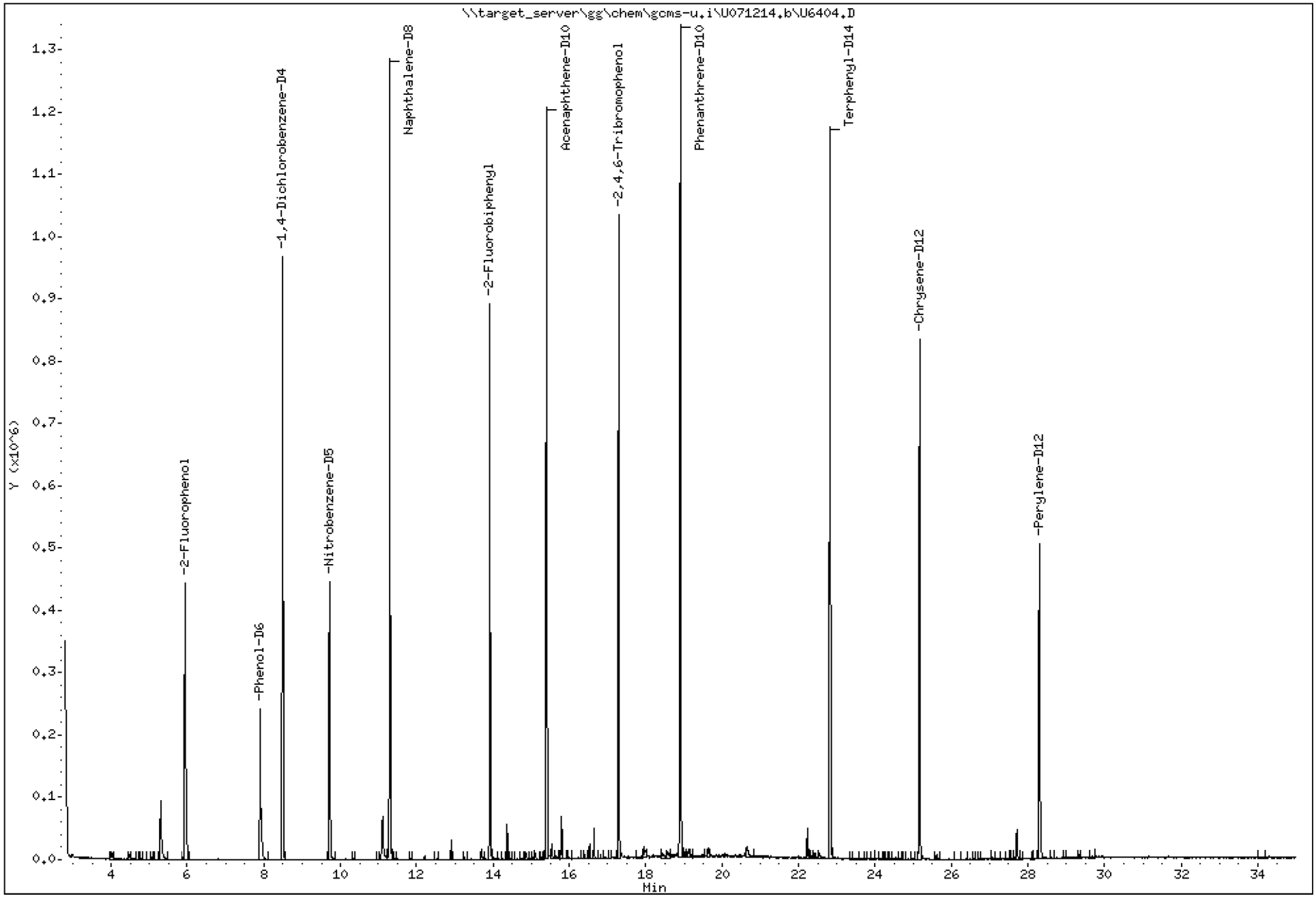
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Lab Smp Id: SH4521-8 Client Smp ID: FTA-MW-210-061814
Inj Date : 12-JUL-2014 11:49 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-8
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.941	5.951	(0.700)	254230	33.7017	31.8	
$ 13 Phenol-D6	99	7.897	7.896	(0.930)	183559	21.8992	20.6	
* 19 1,4-Dichlorobenzene-D4	152	8.487	8.486	(1.000)	241625	40.0000		
$ 33 Nitrobenzene-D5	82	9.708	9.718	(0.859)	242023	29.7750	28.1	
* 44 Naphthalene-D8	136	11.302	11.302	(1.000)	962136	40.0000		
$ 63 2-Fluorobiphenyl	172	13.910	13.920	(0.903)	431016	33.4614	31.6	
* 78 Acenaphthene-D10	164	15.411	15.411	(1.000)	458089	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.295	17.305	(1.122)	228564	101.065	95.3	
* 114 Phenanthrene-D10	188	18.899	18.909	(1.000)	847013	40.0000		
$ 129 Terphenyl-D14	244	22.822	22.821	(0.907)	662667	45.9974	43.4	
* 140 Chrysene-D12	240	25.171	25.191	(1.000)	601304	40.0000		
* 149 Perylene-D12	264	28.297	28.307	(1.000)	396170	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6404.D
Date : 12-JUL-2014 11:49
Client ID: FTA-MW-210-061814
Instrument: gcms-u.i
Sample Info: SH4521-8



Katahdin Analytical Services 3000092

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-10
Client ID: FTA-SW-01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6396.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.2	ug/L	1	10	9.6	1.7	7.2
2-Methylphenol	U	7.2	ug/L	1	10	9.6	3.6	7.2
Isophorone	U	7.2	ug/L	1	10	9.6	1.6	7.2
2-Nitrophenol	U	7.2	ug/L	1	10	9.6	2.6	7.2
2,4-Dimethylphenol	U	7.2	ug/L	1	10	9.6	4.2	7.2
4-Chloro-3-Methylphenol	U	7.2	ug/L	1	10	9.6	3.5	7.2
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Chloronaphthalene	U	7.2	ug/L	1	10	9.6	2.8	7.2
Dimethyl Phthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
Diethylphthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
N-Nitrosodiphenylamine	U	7.2	ug/L	1	10	9.6	3.6	7.2
Carbazole	U	7.2	ug/L	1	10	9.6	2.0	7.2
Di-N-Butylphthalate	U	7.2	ug/L	1	10	9.6	2.4	7.2
Butylbenzylphthalate	U	7.2	ug/L	1	10	9.6	1.8	7.2
Di-N-Octylphthalate	U	7.2	ug/L	1	10	9.6	1.7	7.2
Acetophenone	U	7.2	ug/L	1	10	9.6	3.8	7.2
Caprolactam	UL	7.2	ug/L	1	10	9.6	0.38	7.2
Benzaldehyde	U	7.2	ug/L	1	10	9.6	0.96	7.2
2,3,4,6-Tetrachlorophenol	U	7.2	ug/L	1	10	9.6	2.6	7.2
4-Bromophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	1.8	7.2
4-Chlorophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	2.1	7.2
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Acenaphthylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Anthracene	U	7.2	ug/L	1	10	9.6	1.6	7.2
Fluorene	U	7.2	ug/L	1	10	9.6	2.0	7.2
Fluoranthene	U	7.2	ug/L	1	10	9.6	2.3	7.2
Benzo(g,h,i)perylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Benzo(k)fluoranthene	U	7.2	ug/L	1	10	9.6	1.5	7.2
Bis(2-Chloroethoxy)Methane	U	7.2	ug/L	1	10	9.6	2.0	7.2
2-Fluorophenol		39.4	%					
Phenol-D6		26.1	%					
Nitrobenzene-d5		57.5	%					
2-Fluorobiphenyl		61.8	%					
2,4,6-Tribromophenol		88.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-10
Client ID: FTA-SW-01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6396.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 11-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		94.9	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071114.b\U6396.D
Report Date: 15-Jul-2014 15:37

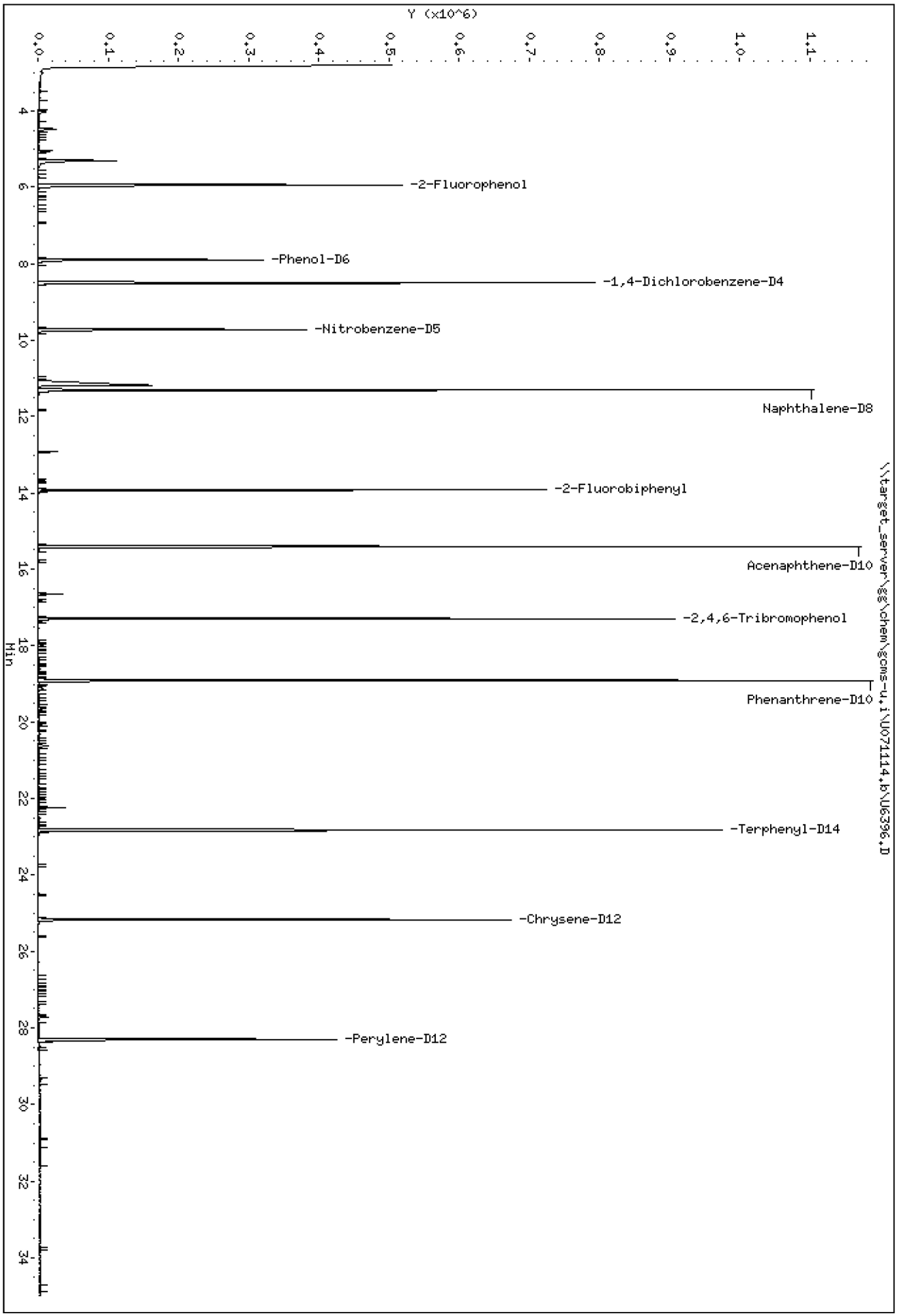
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Lab Smp Id: SH4521-10 Client Smp ID: FTA-SW-01-061914
Inj Date : 11-JUL-2014 21:40 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-10
Misc Info : WG146330,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071114.b\U8270C60.m
Meth Date : 11-Jul-2014 11:35 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.040	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.941	5.953	(0.700)	270038	39.4204	37.9	
$ 13 Phenol-D6	99	7.887	7.909	(0.929)	198602	26.0920	25.1	
* 19 1,4-Dichlorobenzene-D4	152	8.488	8.499	(1.000)	219417	40.0000		
$ 33 Nitrobenzene-D5	82	9.709	9.720	(0.859)	214700	28.7450	27.6	
* 44 Naphthalene-D8	136	11.303	11.314	(1.000)	884102	40.0000		
$ 63 2-Fluorobiphenyl	172	13.921	13.922	(0.903)	382671	30.9070	29.7	
* 78 Acenaphthene-D10	164	15.412	15.423	(1.000)	440321	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.296	17.307	(1.122)	191355	88.0263	84.6	
* 114 Phenanthrene-D10	188	18.900	18.922	(1.000)	764123	40.0000		
$ 129 Terphenyl-D14	244	22.823	22.834	(0.907)	551072	47.4500	45.6	
* 140 Chrysene-D12	240	25.172	25.194	(1.000)	484735	40.0000		
* 149 Perylene-D12	264	28.308	28.309	(1.000)	339129	40.0000		


Y (x10^6)
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0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
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Client ID: FTA-SW-01-061914
Sample Info: SH4521-10
Instrument: gcms-u.i
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-12
Client ID: FTA-SW-02-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6408.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.5	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.5	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.5	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.5	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.5	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.5	2.8	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.5	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.5	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.5	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.5	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.5	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.5	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.5	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.5	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.5	0.95	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.5	2.6	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.5	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.5	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.5	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.5	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.5	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.5	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.5	2.0	7.1
2-Fluorophenol		37.6	%					
Phenol-D6		24.2	%					
Nitrobenzene-d5		58.8	%					
2-Fluorobiphenyl		58.2	%					
2,4,6-Tribromophenol		79.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-12
Client ID: FTA-SW-02-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6408.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		76.4	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6408.D
Report Date: 15-Jul-2014 15:53

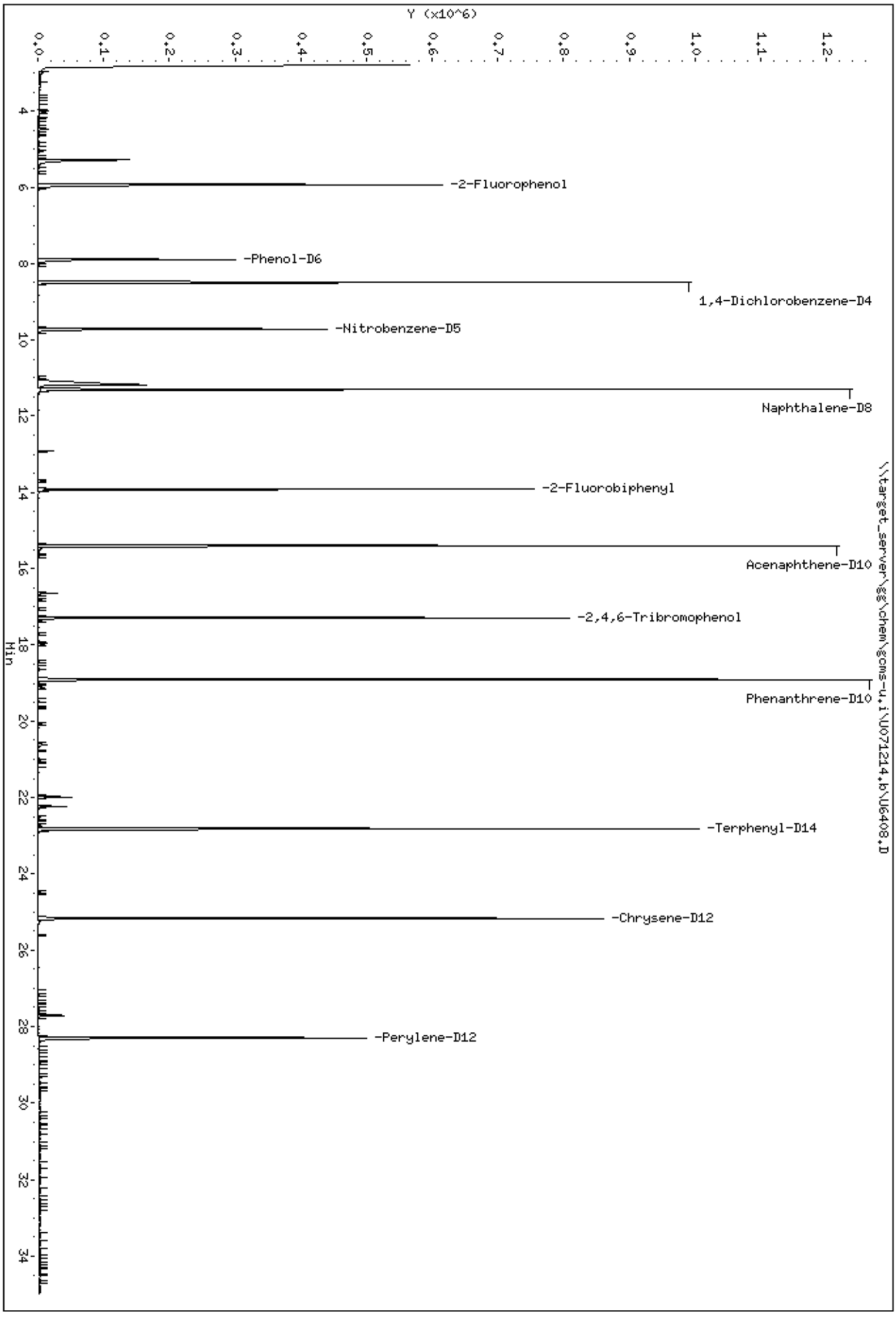
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071214.b\U6408.D
Lab Smp Id: SH4521-12 Client Smp ID: FTA-SW-02-061914
Inj Date : 12-JUL-2014 14:40 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-12
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.939	5.951	(0.700)	290067	37.6194	35.8	
$ 13 Phenol-D6	99	7.896	7.896	(0.930)	207621	24.2333	23.1	
* 19 1,4-Dichlorobenzene-D4	152	8.486	8.486	(1.000)	246975	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.718	(0.859)	234027	29.4242	28.0	
* 44 Naphthalene-D8	136	11.301	11.302	(1.000)	941443	40.0000		
$ 63 2-Fluorobiphenyl	172	13.909	13.920	(0.903)	389956	29.0886	27.7	
* 78 Acenaphthene-D10	164	15.410	15.411	(1.000)	476753	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.305	(1.122)	186242	79.1273	75.4	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	822294	40.0000		
$ 129 Terphenyl-D14	244	22.820	22.821	(0.907)	562958	38.1858	36.4	
* 140 Chrysene-D12	240	25.170	25.191	(1.000)	615327	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	382763	40.0000		


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Date : 12-JUL-2014 14:40
Client ID: FTA-SW-02-061914
Sample Info: SH4521-12
Instrument: gcms-u,i
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Y (x10^6)
Min
-2-Fluorophenol
-Phenol-D6
1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-14
Client ID: FTA-SW-03-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6409.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.6	ug/L	1	10	10.	1.8	7.6
2-Methylphenol	UMM	7.6	ug/L	1	10	10.	3.9	7.6
Isophorone	U	7.6	ug/L	1	10	10.	1.7	7.6
2-Nitrophenol	U	7.6	ug/L	1	10	10.	2.8	7.6
2,4-Dimethylphenol	U	7.6	ug/L	1	10	10.	4.5	7.6
4-Chloro-3-Methylphenol	U	7.6	ug/L	1	10	10.	3.7	7.6
2,4,5-Trichlorophenol	U	19	ug/L	1	25	26.	3.7	19.
2-Chloronaphthalene	UM	7.6	ug/L	1	10	10.	3.0	7.6
Dimethyl Phthalate	U	7.6	ug/L	1	10	10.	2.0	7.6
Diethylphthalate	U	7.6	ug/L	1	10	10.	2.0	7.6
N-Nitrosodiphenylamine	U	7.6	ug/L	1	10	10.	3.8	7.6
Carbazole	U	7.6	ug/L	1	10	10.	2.1	7.6
Di-N-Butylphthalate	U	7.6	ug/L	1	10	10.	2.6	7.6
Butylbenzylphthalate	U	7.6	ug/L	1	10	10.	1.9	7.6
Di-N-Octylphthalate	U	7.6	ug/L	1	10	10.	1.8	7.6
Acetophenone	U	7.6	ug/L	1	10	10.	4.0	7.6
Caprolactam	UL	7.6	ug/L	1	10	10.	0.41	7.6
Benzaldehyde	U	7.6	ug/L	1	10	10.	1.0	7.6
2,3,4,6-Tetrachlorophenol	U	7.6	ug/L	1	10	10.	2.8	7.6
4-Bromophenyl-Phenylether	U	7.6	ug/L	1	10	10.	1.9	7.6
4-Chlorophenyl-Phenylether	U	7.6	ug/L	1	10	10.	2.2	7.6
4-Nitrophenol	U	19	ug/L	1	25	26.	1.8	19.
Acenaphthene	U	7.6	ug/L	1	10	10.	1.5	7.6
Acenaphthylene	U	7.6	ug/L	1	10	10.	1.5	7.6
Anthracene	U	7.6	ug/L	1	10	10.	1.7	7.6
Fluorene	U	7.6	ug/L	1	10	10.	2.1	7.6
Fluoranthene	U	7.6	ug/L	1	10	10.	2.4	7.6
Benzo(g,h,i)perylene	U	7.6	ug/L	1	10	10.	1.5	7.6
Benzo(k)fluoranthene	U	7.6	ug/L	1	10	10.	1.6	7.6
Bis(2-Chloroethoxy)Methane	U	7.6	ug/L	1	10	10.	2.1	7.6
2-Fluorophenol		38.4	%					
Phenol-D6		26.0	%					
Nitrobenzene-d5		56.9	%					
2-Fluorobiphenyl		61.6	%					
2,4,6-Tribromophenol		89.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-14
Client ID: FTA-SW-03-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6409.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		76.0	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6409.D
Report Date: 15-Jul-2014 15:40

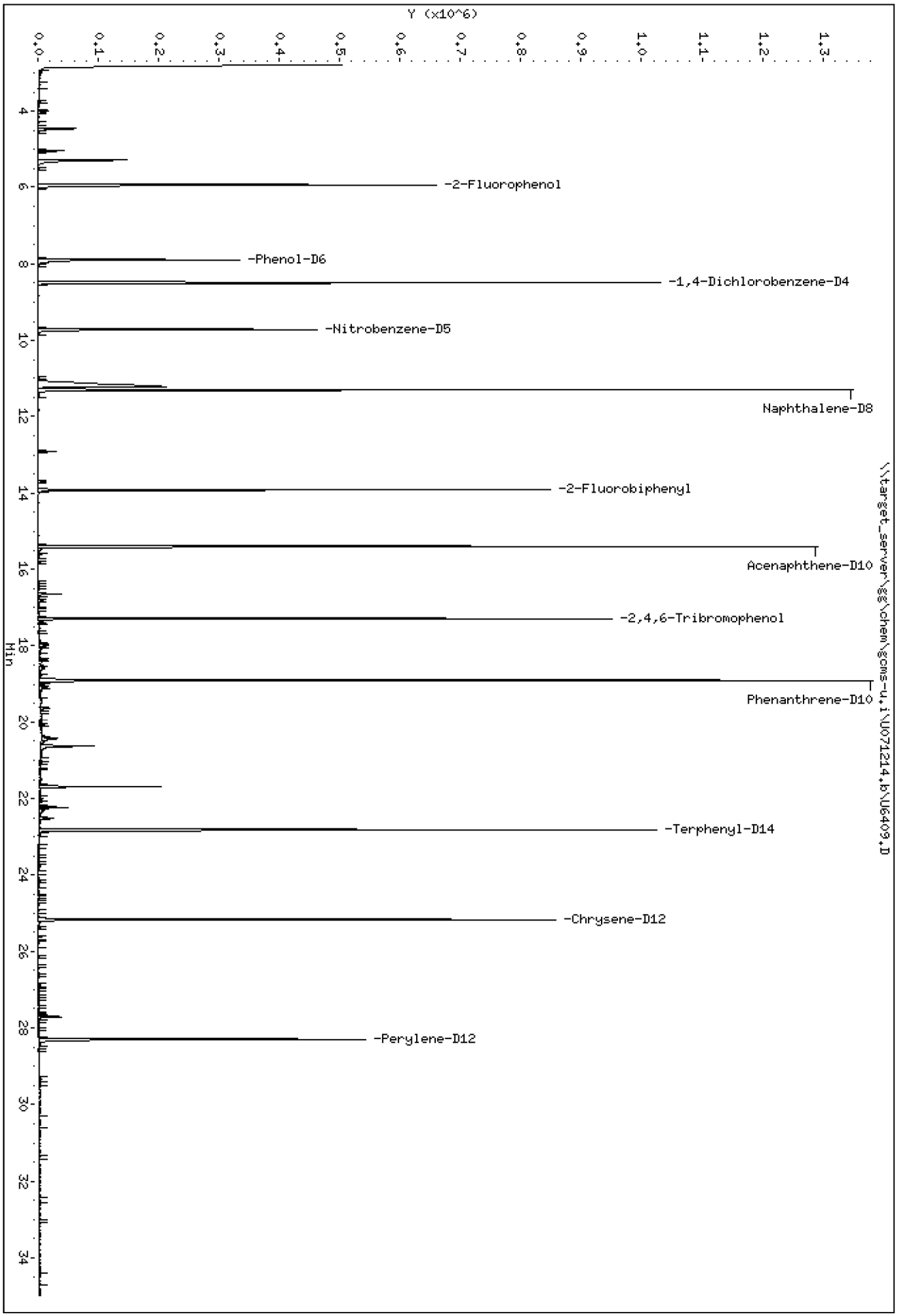
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071214.b\U6409.D
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Inj Date : 12-JUL-2014 15:22 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-14
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	0.98000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.951	(0.700)	304553	38.3732	39.2	
$ 13 Phenol-D6	99	7.896	7.896	(0.930)	229149	25.9843	26.5	
* 19 1,4-Dichlorobenzene-D4	152	8.486	8.486	(1.000)	254215	40.0000		
$ 33 Nitrobenzene-D5	82	9.708	9.718	(0.859)	243130	28.4394	29.0	
* 44 Naphthalene-D8	136	11.301	11.302	(1.000)	1011928	40.0000		
$ 63 2-Fluorobiphenyl	172	13.910	13.920	(0.903)	425656	30.8098	31.4	
* 78 Acenaphthene-D10	164	15.410	15.411	(1.000)	491327	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.305	(1.122)	216800	89.3780	91.2	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	891388	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.821	(0.907)	582735	38.0024	38.8	
* 140 Chrysene-D12	240	25.171	25.191	(1.000)	640019	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	410911	40.0000		


Y (x10^6)
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0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
-1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
Acenaphthene-D10
-2,4,6-Tribromophenol
Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
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Client ID: FTA-SW-03-061914
Sample Info: SH4521-14
Instrument: gcms-u,i

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6412.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.5	ug/L	1	10	10.	1.8	7.5
2-Methylphenol	U	7.5	ug/L	1	10	10.	3.8	7.5
Isophorone	U	7.5	ug/L	1	10	10.	1.7	7.5
2-Nitrophenol	U	7.5	ug/L	1	10	10.	2.7	7.5
2,4-Dimethylphenol	U	7.5	ug/L	1	10	10.	4.4	7.5
4-Chloro-3-Methylphenol	U	7.5	ug/L	1	10	10.	3.6	7.5
2,4,5-Trichlorophenol	U	19	ug/L	1	25	25.	3.6	19.
2-Chloronaphthalene	U	7.5	ug/L	1	10	10.	2.9	7.5
Dimethyl Phthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
Diethylphthalate	U	7.5	ug/L	1	10	10.	2.0	7.5
N-Nitrosodiphenylamine	U	7.5	ug/L	1	10	10.	3.7	7.5
Carbazole	U	7.5	ug/L	1	10	10.	2.1	7.5
Di-N-Butylphthalate	U	7.5	ug/L	1	10	10.	2.5	7.5
Butylbenzylphthalate	U	7.5	ug/L	1	10	10.	1.9	7.5
Di-N-Octylphthalate	U	7.5	ug/L	1	10	10.	1.8	7.5
Acetophenone	U	7.5	ug/L	1	10	10.	3.9	7.5
Caprolactam	UL	7.5	ug/L	1	10	10.	0.40	7.5
Benzaldehyde	U	7.5	ug/L	1	10	10.	1.0	7.5
2,3,4,6-Tetrachlorophenol	U	7.5	ug/L	1	10	10.	2.7	7.5
4-Bromophenyl-Phenylether	U	7.5	ug/L	1	10	10.	1.9	7.5
4-Chlorophenyl-Phenylether	U	7.5	ug/L	1	10	10.	2.2	7.5
4-Nitrophenol	U	19	ug/L	1	25	25.	1.8	19.
Acenaphthene	U	7.5	ug/L	1	10	10.	1.5	7.5
Acenaphthylene	U	7.5	ug/L	1	10	10.	1.5	7.5
Anthracene	U	7.5	ug/L	1	10	10.	1.7	7.5
Fluorene	U	7.5	ug/L	1	10	10.	2.1	7.5
Fluoranthene	U	7.5	ug/L	1	10	10.	2.4	7.5
Benzo(g,h,i)perylene	U	7.5	ug/L	1	10	10.	1.5	7.5
Benzo(k)fluoranthene	U	7.5	ug/L	1	10	10.	1.6	7.5
Bis(2-Chloroethoxy)Methane	U	7.5	ug/L	1	10	10.	2.1	7.5
2-Fluorophenol		27.1	%					
Phenol-D6		20.3	%					
Nitrobenzene-d5		57.6	%					
2-Fluorobiphenyl		60.5	%					
2,4,6-Tribromophenol		76.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6412.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		60.7	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6412.D
Report Date: 15-Jul-2014 15:40

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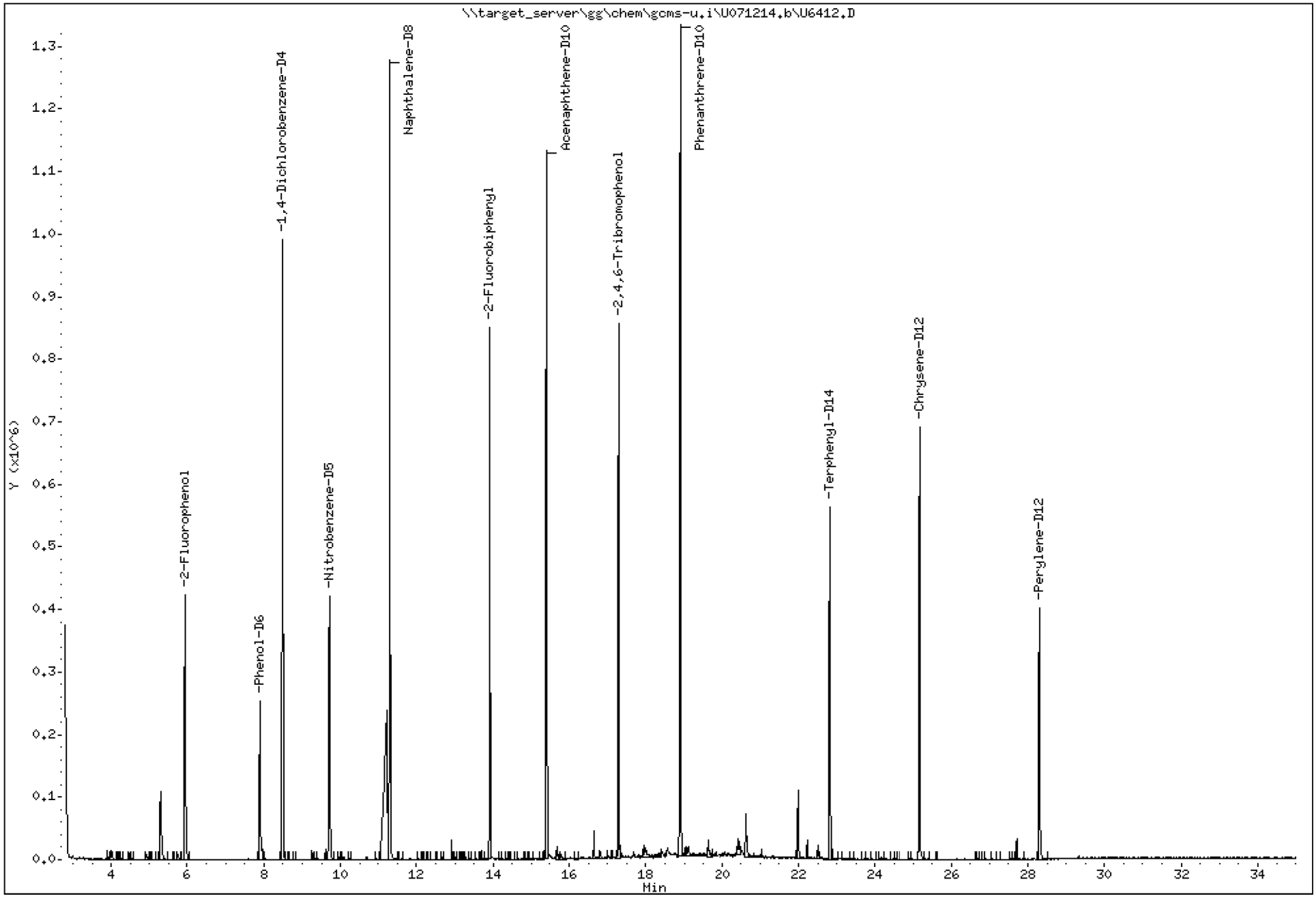
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Inj Date : 12-JUL-2014 17:30 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-16
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.942	5.951	(0.700)	203118	27.0818	27.1	
$ 13 Phenol-D6	99	7.888	7.896	(0.929)	168968	20.2750	20.3	
* 19 1,4-Dichlorobenzene-D4	152	8.488	8.486	(1.000)	240236	40.0000		
$ 33 Nitrobenzene-D5	82	9.709	9.718	(0.859)	232080	28.7780	28.8	
* 44 Naphthalene-D8	136	11.303	11.302	(1.000)	954572	40.0000		
$ 63 2-Fluorobiphenyl	172	13.911	13.920	(0.903)	399680	30.2521	30.2	
* 78 Acenaphthene-D10	164	15.412	15.411	(1.000)	469847	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.296	17.305	(1.122)	176744	76.1956	76.2	
* 114 Phenanthrene-D10	188	18.900	18.909	(1.000)	837863	40.0000		
$ 129 Terphenyl-D14	244	22.812	22.821	(0.906)	335161	30.3508	30.4	
* 140 Chrysene-D12	240	25.172	25.191	(1.000)	460910	40.0000		
* 149 Perylene-D12	264	28.298	28.307	(1.000)	293936	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6412.D
Date : 12-JUL-2014 17:30
Client ID: FTA-SW-06-061914
Instrument: gcms-u.i
Sample Info: SH4521-16



Katahdin Analytical Services 3000108

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6413.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.1	ug/L	1	10	9.4	1.7	7.1
2-Methylphenol	U	7.1	ug/L	1	10	9.4	3.6	7.1
Isophorone	U	7.1	ug/L	1	10	9.4	1.6	7.1
2-Nitrophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
2,4-Dimethylphenol	U	7.1	ug/L	1	10	9.4	4.2	7.1
4-Chloro-3-Methylphenol	U	7.1	ug/L	1	10	9.4	3.4	7.1
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.4	18.
2-Chloronaphthalene	U	7.1	ug/L	1	10	9.4	2.7	7.1
Dimethyl Phthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
Diethylphthalate	U	7.1	ug/L	1	10	9.4	1.9	7.1
N-Nitrosodiphenylamine	U	7.1	ug/L	1	10	9.4	3.5	7.1
Carbazole	U	7.1	ug/L	1	10	9.4	2.0	7.1
Di-N-Butylphthalate	U	7.1	ug/L	1	10	9.4	2.4	7.1
Butylbenzylphthalate	U	7.1	ug/L	1	10	9.4	1.8	7.1
Di-N-Octylphthalate	U	7.1	ug/L	1	10	9.4	1.7	7.1
Acetophenone	U	7.1	ug/L	1	10	9.4	3.7	7.1
Caprolactam	UL	7.1	ug/L	1	10	9.4	0.38	7.1
Benzaldehyde	U	7.1	ug/L	1	10	9.4	0.94	7.1
2,3,4,6-Tetrachlorophenol	U	7.1	ug/L	1	10	9.4	2.5	7.1
4-Bromophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	1.8	7.1
4-Chlorophenyl-Phenylether	U	7.1	ug/L	1	10	9.4	2.1	7.1
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Acenaphthylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Anthracene	U	7.1	ug/L	1	10	9.4	1.6	7.1
Fluorene	U	7.1	ug/L	1	10	9.4	2.0	7.1
Fluoranthene	U	7.1	ug/L	1	10	9.4	2.3	7.1
Benzo(g,h,i)perylene	U	7.1	ug/L	1	10	9.4	1.4	7.1
Benzo(k)fluoranthene	U	7.1	ug/L	1	10	9.4	1.5	7.1
Bis(2-Chloroethoxy)Methane	U	7.1	ug/L	1	10	9.4	2.0	7.1
2-Fluorophenol		40.2	%					
Phenol-D6		26.5	%					
Nitrobenzene-d5		65.0	%					
2-Fluorobiphenyl		69.2	%					
2,4,6-Tribromophenol		102.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6413.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		74.3	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6413.D
Report Date: 15-Jul-2014 15:40

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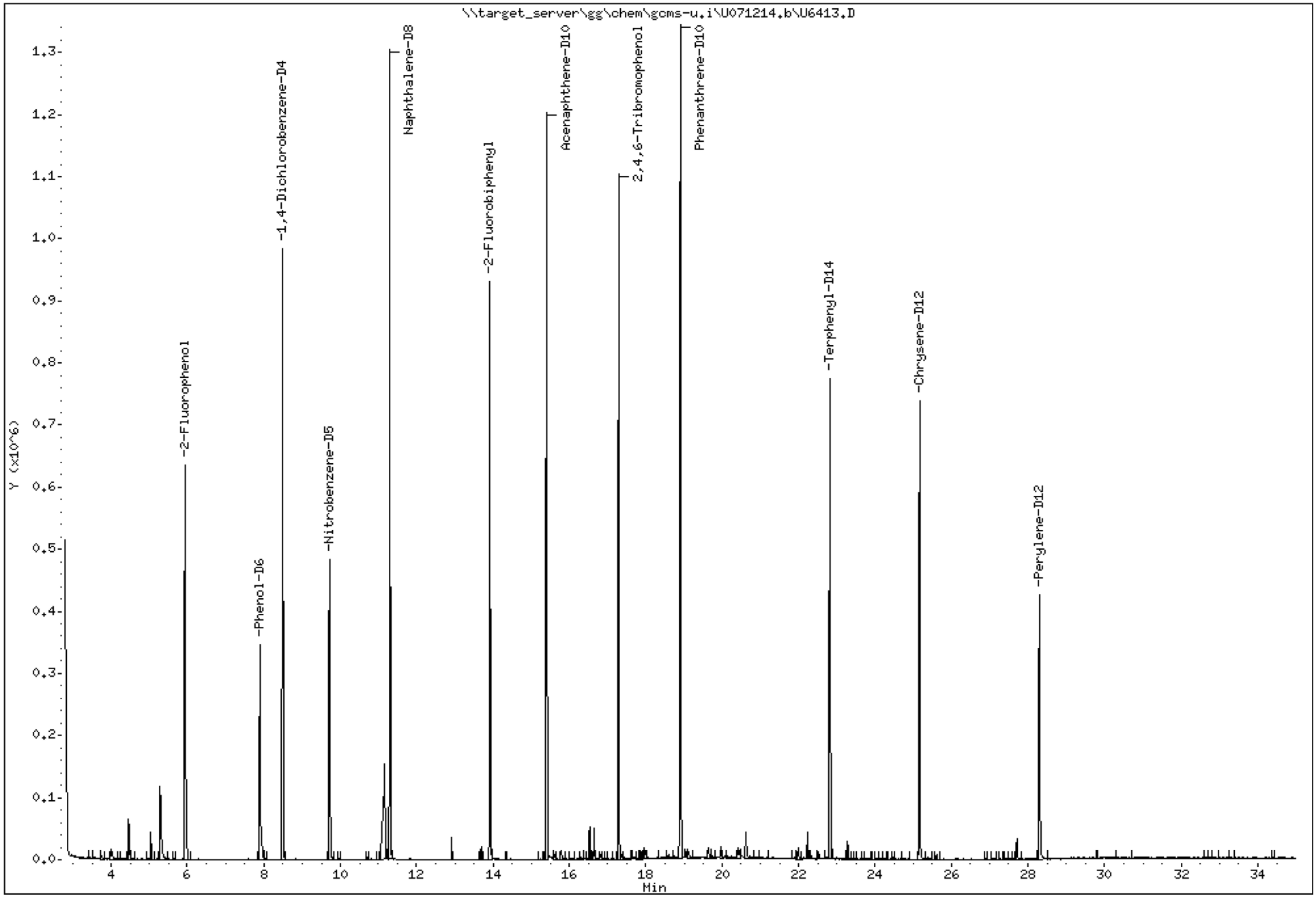
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Inj Date : 12-JUL-2014 18:13 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-18
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.060	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.951	(0.700)	305255	40.2580	38.0	
$ 13 Phenol-D6	99	7.886	7.896	(0.929)	223499	26.5273	25.0	
* 19 1,4-Dichlorobenzene-D4	152	8.486	8.486	(1.000)	242872	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.718	(0.859)	266843	32.4831	30.6	
* 44 Naphthalene-D8	136	11.301	11.302	(1.000)	972368	40.0000		
$ 63 2-Fluorobiphenyl	172	13.909	13.920	(0.903)	463374	34.5951	32.6	
* 78 Acenaphthene-D10	164	15.410	15.411	(1.000)	476340	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.305	(1.122)	239708	101.931	96.2	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	868439	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.821	(0.907)	443615	37.1713	35.1	
* 140 Chrysene-D12	240	25.170	25.191	(1.000)	498116	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	317555	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6413.D
Date : 12-JUL-2014 18:13
Client ID: FTA-SW-07-061914
Instrument: gcms-u.i
Sample Info: SH4521-18



Katahdin Analytical Services 3000112

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6414.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.4	ug/L	1	10	9.8	1.8	7.4
2-Methylphenol	U	7.4	ug/L	1	10	9.8	3.7	7.4
Isophorone	U	7.4	ug/L	1	10	9.8	1.7	7.4
2-Nitrophenol	U	7.4	ug/L	1	10	9.8	2.6	7.4
2,4-Dimethylphenol	U	7.4	ug/L	1	10	9.8	4.3	7.4
4-Chloro-3-Methylphenol	U	7.4	ug/L	1	10	9.8	3.5	7.4
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Chloronaphthalene	U	7.4	ug/L	1	10	9.8	2.8	7.4
Dimethyl Phthalate	U	7.4	ug/L	1	10	9.8	2.0	7.4
Diethylphthalate	U	7.4	ug/L	1	10	9.8	2.0	7.4
N-Nitrosodiphenylamine	U	7.4	ug/L	1	10	9.8	3.6	7.4
Carbazole	U	7.4	ug/L	1	10	9.8	2.0	7.4
Di-N-Butylphthalate	U	7.4	ug/L	1	10	9.8	2.4	7.4
Butylbenzylphthalate	U	7.4	ug/L	1	10	9.8	1.9	7.4
Di-N-Octylphthalate	U	7.4	ug/L	1	10	9.8	1.8	7.4
Acetophenone	U	7.4	ug/L	1	10	9.8	3.8	7.4
Caprolactam	UL	7.4	ug/L	1	10	9.8	0.39	7.4
Benzaldehyde	U	7.4	ug/L	1	10	9.8	0.98	7.4
2,3,4,6-Tetrachlorophenol	U	7.4	ug/L	1	10	9.8	2.6	7.4
4-Bromophenyl-Phenylether	U	7.4	ug/L	1	10	9.8	1.9	7.4
4-Chlorophenyl-Phenylether	U	7.4	ug/L	1	10	9.8	2.2	7.4
4-Nitrophenol	U	18	ug/L	1	25	24.	1.8	18.
Acenaphthene	U	7.4	ug/L	1	10	9.8	1.5	7.4
Acenaphthylene	U	7.4	ug/L	1	10	9.8	1.5	7.4
Anthracene	U	7.4	ug/L	1	10	9.8	1.7	7.4
Fluorene	U	7.4	ug/L	1	10	9.8	2.0	7.4
Fluoranthene	U	7.4	ug/L	1	10	9.8	2.4	7.4
Benzo(g,h,i)perylene	U	7.4	ug/L	1	10	9.8	1.5	7.4
Benzo(k)fluoranthene	U	7.4	ug/L	1	10	9.8	1.6	7.4
Bis(2-Chloroethoxy)Methane	U	7.4	ug/L	1	10	9.8	2.0	7.4
2-Fluorophenol		37.4	%					
Phenol-D6		25.0	%					
Nitrobenzene-d5		58.0	%					
2-Fluorobiphenyl		61.5	%					
2,4,6-Tribromophenol		88.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6414.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		67.1	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6414.D
Report Date: 15-Jul-2014 15:40

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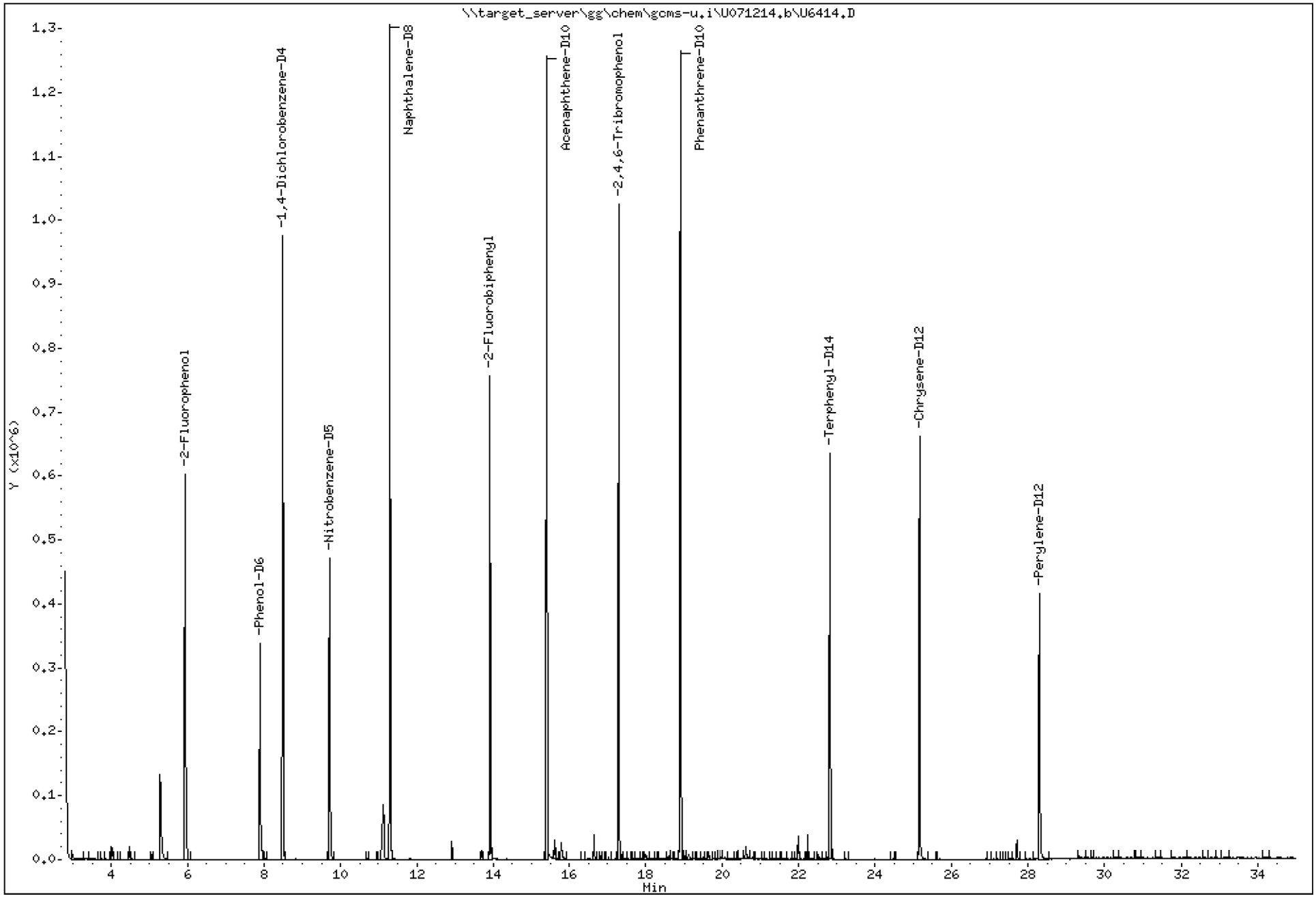
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Inj Date : 12-JUL-2014 18:55 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-20
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.020	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.938	5.951	(0.700)	290863	37.3647	36.6	
$ 13 Phenol-D6	99	7.895	7.896	(0.930)	216747	25.0584	24.6	
* 19 1,4-Dichlorobenzene-D4	152	8.485	8.486	(1.000)	249341	40.0000		
$ 33 Nitrobenzene-D5	82	9.706	9.718	(0.859)	248944	29.0244	28.4	
* 44 Naphthalene-D8	136	11.300	11.302	(1.000)	1015245	40.0000		
$ 63 2-Fluorobiphenyl	172	13.918	13.920	(0.903)	429581	30.7607	30.2	
* 78 Acenaphthene-D10	164	15.409	15.411	(1.000)	496648	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.292	17.305	(1.122)	217193	88.5807	86.8	
* 114 Phenanthrene-D10	188	18.897	18.909	(1.000)	842143	40.0000		
$ 129 Terphenyl-D14	244	22.819	22.821	(0.907)	373309	33.5498	32.9	
* 140 Chrysene-D12	240	25.169	25.191	(1.000)	464420	40.0000		
* 149 Perylene-D12	264	28.295	28.307	(1.000)	318780	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6414.D
Date : 12-JUL-2014 18:55
Client ID: FTA-SW-08-061914
Instrument: gcms-u.i
Sample Info: SH4521-20



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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6415.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Phenol	U	7.3	ug/L	1	10	9.7	1.7	7.3
2-Methylphenol	U	7.3	ug/L	1	10	9.7	3.7	7.3
Isophorone	U	7.3	ug/L	1	10	9.7	1.6	7.3
2-Nitrophenol	U	7.3	ug/L	1	10	9.7	2.6	7.3
2,4-Dimethylphenol	U	7.3	ug/L	1	10	9.7	4.3	7.3
4-Chloro-3-Methylphenol	U	7.3	ug/L	1	10	9.7	3.5	7.3
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Chloronaphthalene	U	7.3	ug/L	1	10	9.7	2.8	7.3
Dimethyl Phthalate	U	7.3	ug/L	1	10	9.7	2.0	7.3
Diethylphthalate	U	7.3	ug/L	1	10	9.7	1.9	7.3
N-Nitrosodiphenylamine	U	7.3	ug/L	1	10	9.7	3.6	7.3
Carbazole	U	7.3	ug/L	1	10	9.7	2.0	7.3
Di-N-Butylphthalate	U	7.3	ug/L	1	10	9.7	2.4	7.3
Butylbenzylphthalate	U	7.3	ug/L	1	10	9.7	1.8	7.3
Di-N-Octylphthalate	U	7.3	ug/L	1	10	9.7	1.7	7.3
Acetophenone	U	7.3	ug/L	1	10	9.7	3.8	7.3
Caprolactam	UL	7.3	ug/L	1	10	9.7	0.39	7.3
Benzaldehyde	U	7.3	ug/L	1	10	9.7	0.97	7.3
2,3,4,6-Tetrachlorophenol	U	7.3	ug/L	1	10	9.7	2.6	7.3
4-Bromophenyl-Phenylether	U	7.3	ug/L	1	10	9.7	1.8	7.3
4-Chlorophenyl-Phenylether	U	7.3	ug/L	1	10	9.7	2.1	7.3
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Acenaphthene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Acenaphthylene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Anthracene	U	7.3	ug/L	1	10	9.7	1.6	7.3
Fluorene	U	7.3	ug/L	1	10	9.7	2.0	7.3
Fluoranthene	U	7.3	ug/L	1	10	9.7	2.3	7.3
Benzo(g,h,i)perylene	U	7.3	ug/L	1	10	9.7	1.4	7.3
Benzo(k)fluoranthene	U	7.3	ug/L	1	10	9.7	1.6	7.3
Bis(2-Chloroethoxy)Methane	U	7.3	ug/L	1	10	9.7	2.0	7.3
2-Fluorophenol		30.2	%					
Phenol-D6		21.1	%					
Nitrobenzene-d5		55.1	%					
2-Fluorobiphenyl		57.7	%					
2,4,6-Tribromophenol		87.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6415.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 12-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Terphenyl-d14		62.3	%					

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Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6415.D
Report Date: 15-Jul-2014 15:40

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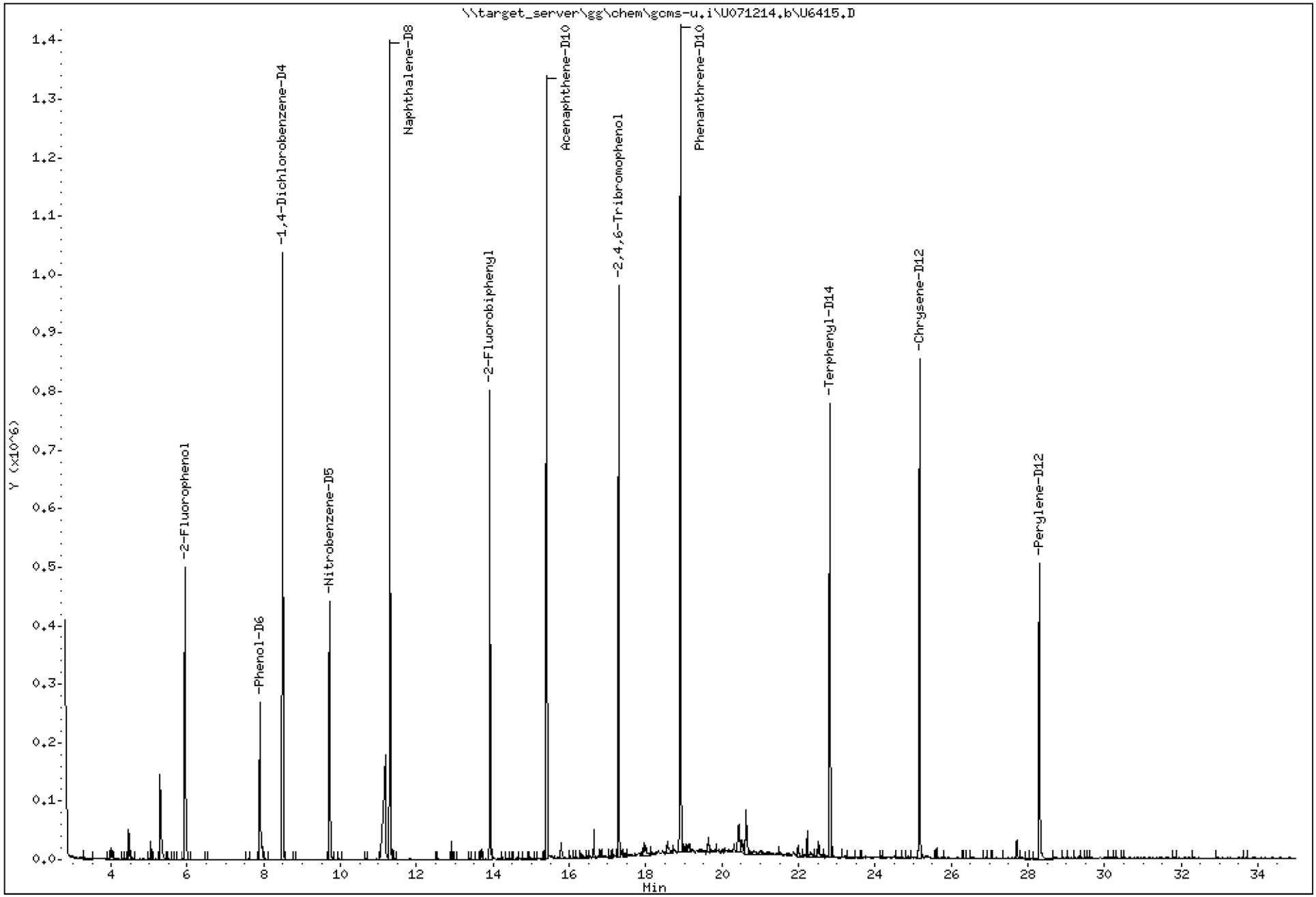
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Inj Date : 12-JUL-2014 19:38 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-22
Misc Info : WG146400,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071214.b\U8270C60.m
Meth Date : 12-Jul-2014 08:53 cgomez Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.030	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.940	5.951	(0.700)	238126	30.1791	29.3	
$ 13 Phenol-D6	99	7.886	7.896	(0.929)	184690	21.0654	20.4	
* 19 1,4-Dichlorobenzene-D4	152	8.486	8.486	(1.000)	252736	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.718	(0.859)	240048	27.5698	26.8	
* 44 Naphthalene-D8	136	11.301	11.302	(1.000)	1030617	40.0000		
$ 63 2-Fluorobiphenyl	172	13.909	13.920	(0.903)	400954	28.8703	28.0	
* 78 Acenaphthene-D10	164	15.410	15.411	(1.000)	493905	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.294	17.305	(1.122)	212642	87.2062	84.7	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	936300	40.0000		
$ 129 Terphenyl-D14	244	22.821	22.821	(0.907)	447116	31.1444	30.2	
* 140 Chrysene-D12	240	25.170	25.191	(1.000)	599201	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	369705	40.0000		

Data File: \\target_server\gg\chem\gcms-u.i\U071214.b\U6415.D
Date : 12-JUL-2014 19:38
Client ID: FTA-SW-DUP01-061914
Instrument: gcms-u.i
Sample Info: SH4521-22



Katahdin Analytical Services 3000120

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-24
Client ID: FTA-SD-RB01-062014
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6421.D

Sample Date: 20-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
2-Nitrophenol	U	7.2	ug/L	1	10	9.6	2.6	7.2
2,4-Dimethylphenol	U	7.2	ug/L	1	10	9.6	4.2	7.2
Bis(2-Chloroethoxy)Methane	U	7.2	ug/L	1	10	9.6	2.0	7.2
2,4-Dichlorophenol	U	7.2	ug/L	1	10	9.6	2.9	7.2
Caprolactam	UL	7.2	ug/L	1	10	9.6	0.38	7.2
4-Chloro-3-Methylphenol	U	7.2	ug/L	1	10	9.6	3.5	7.2
2-Methylnaphthalene	U	7.2	ug/L	1	10	9.6	3.1	7.2
2,4,5-Trichlorophenol	U	18	ug/L	1	25	24.	3.5	18.
2-Nitroaniline	U	18	ug/L	1	25	24.	1.7	18.
Dimethyl Phthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
3-Nitroaniline	U	18	ug/L	1	25	24.	1.4	18.
4-Nitrophenol	U	18	ug/L	1	25	24.	1.7	18.
Dibenzofuran	U	7.2	ug/L	1	10	9.6	1.5	7.2
Diethylphthalate	U	7.2	ug/L	1	10	9.6	1.9	7.2
4-Chlorophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	2.1	7.2
4-Bromophenyl-Phenylether	U	7.2	ug/L	1	10	9.6	1.8	7.2
Carbazole	U	7.2	ug/L	1	10	9.6	2.0	7.2
Bis(2-Ethylhexyl)Phthalate	U	7.2	ug/L	1	10	9.6	1.7	7.2
Di-N-Octylphthalate	U	7.2	ug/L	1	10	9.6	1.7	7.2
Acenaphthylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Anthracene	U	7.2	ug/L	1	10	9.6	1.6	7.2
Benzaldehyde	U	7.2	ug/L	1	10	9.6	0.96	7.2
Benzo(g,h,i)perylene	U	7.2	ug/L	1	10	9.6	1.4	7.2
Benzo(k)fluoranthene	U	7.2	ug/L	1	10	9.6	1.5	7.2
Chrysene	U	7.2	ug/L	1	10	9.6	1.6	7.2
Dibenzo(a,h)anthracene	U	7.2	ug/L	1	10	9.6	1.6	7.2
Fluoranthene	U	7.2	ug/L	1	10	9.6	2.3	7.2
Fluorene	U	7.2	ug/L	1	10	9.6	2.0	7.2
Hexachlorocyclopentadiene	U	7.2	ug/L	1	10	9.6	1.2	7.2
Phenanthrene	U	7.2	ug/L	1	10	9.6	2.3	7.2
Phenol	U	7.2	ug/L	1	10	9.6	1.7	7.2
Pyrene	U	7.2	ug/L	1	10	9.6	1.8	7.2
Isophorone	U	7.2	ug/L	1	10	9.6	1.6	7.2
2-Fluorophenol		43.9	%					
Phenol-d6		29.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-24
Client ID: FTA-SD-RB01-062014
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: U6421.D

Sample Date: 20-JUN-14
Received Date: 20-JUN-14
Extract Date: 25-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145380

Analysis Date: 14-JUL-14
Analyst: JCG
Analysis Method: SW846 8270D
Matrix: AQ
% Solids: NA
Report Date: 16-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Nitrobenzene-d5		74.5	%					
2-Fluorobiphenyl		77.0	%					
2,4,6-Tribromophenol		73.0	%					
Terphenyl-d14		76.7	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-u.i\U071414.b\U6421.D
Report Date: 15-Jul-2014 15:43

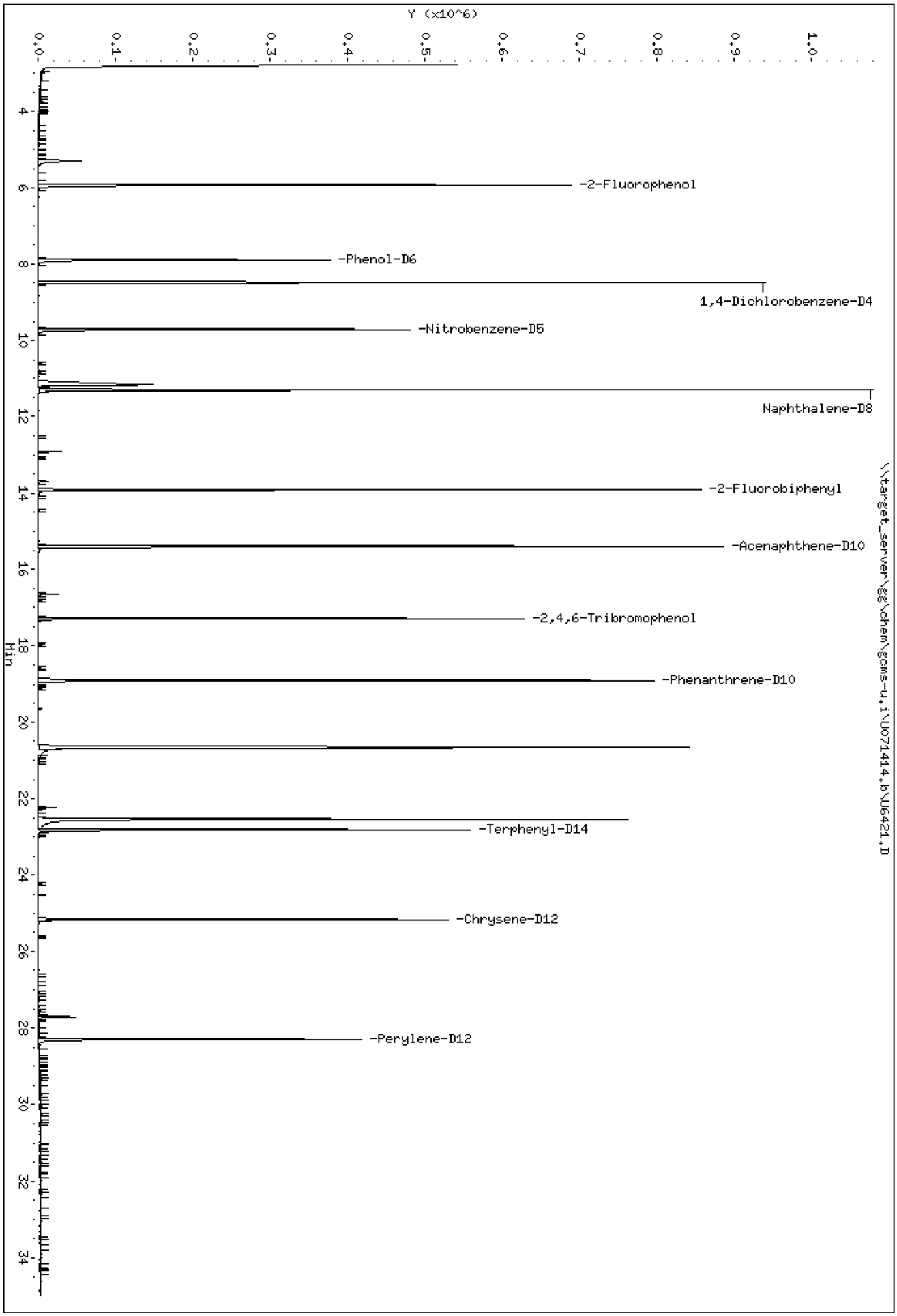
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U071414.b\U6421.D
Lab Smp Id: SH4521-24 Client Smp ID: FTA-SD-RB01-062014
Inj Date : 14-JUL-2014 12:27 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : SH4521-24
Misc Info : WG146446,WG145380,WG145897-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U071414.b\U8270C60.m
Meth Date : 15-Jul-2014 15:42 gcms-u.i Quant Type: ISTD
Cal Date : 03-JUL-2014 14:15 Cal File: U6272.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tt-we53aocs.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.040	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
$ 8 2-Fluorophenol	112	5.939	5.961	(0.700)	304686	43.8990	42.2	
$ 13 Phenol-D6	99	7.885	7.906	(0.929)	223329	28.9584	27.8	
* 19 1,4-Dichlorobenzene-D4	152	8.485	8.486	(1.000)	222313	40.0000		
$ 33 Nitrobenzene-D5	82	9.707	9.707	(0.859)	266704	37.2329	35.8	
* 44 Naphthalene-D8	136	11.301	11.301	(1.000)	847881	40.0000		
$ 63 2-Fluorobiphenyl	172	13.909	13.920	(0.903)	409361	38.5055	37.0	
* 78 Acenaphthene-D10	164	15.399	15.410	(1.000)	378080	40.0000		
$ 100 2,4,6-Tribromophenol	330	17.283	17.294	(1.122)	136282	73.0124	70.2	
* 114 Phenanthrene-D10	188	18.898	18.909	(1.000)	534094	40.0000		
$ 129 Terphenyl-D14	244	22.810	22.821	(0.906)	337086	38.3408	36.9	
* 140 Chrysene-D12	240	25.170	25.181	(1.000)	366954	40.0000		
* 149 Perylene-D12	264	28.296	28.307	(1.000)	306636	40.0000		


Y (x10^6)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Min
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
-2-Fluorophenol
-Phenol-D6
1,4-Dichlorobenzene-D4
-Nitrobenzene-D5
Naphthalene-D8
-2-Fluorobiphenyl
-Acenaphthene-D10
-2,4,6-Tribromophenol
-Phenanthrene-D10
-Terphenyl-D14
-Chrysene-D12
-Perylene-D12
\\target_server\gg\chem\gcms-u,i\U071414,b\U6421.D
Data File: \\target_server\gg\chem\gcms-u,i\U071414,b\U6421.D
Date : 14-JUL-2014 12:27
Client ID: FTA-SD-RB01-062014
Sample Info: SH4521-24
Instrument: gcms-u,i

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6201.D U6202.D U6200.D U6203.D U6204.D U6205.D
Column ID:
Calibration Date(s): 30-JUN-14 10:09, 30-JUN-14 13:49

	10.0000 Level 1	25.0000 Level 2	50.0000 Level 3	75.0000 Level 4	100.0000 Level 5	125.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Benzaldehyde	0.15539	0.15033	0.13878	0.13702	0.12523	0.11577	AVG		0.13709		10.8594	15.00000	O
Phenol	1.53256	1.51327	1.48366	1.44497	1.38141	1.40132	AVG		1.45953		4.16835	30.00000	O
2-Methylphenol	1.13878	1.10274	1.10607	1.11745	1.10143	1.10681	AVG		1.11221		1.27538	15.00000	O
Acetophenone	0.41056	0.40198	0.39656	0.38428	0.37763	0.37532	AVG		0.39105		3.62381	15.00000	O
Isophorone	0.62793	0.61119	0.61074	0.59912	0.58069	0.59092	AVG		0.60343		2.77897	15.00000	O
2-Nitrophenol	0.17547	0.16933	0.17181	0.16965	0.16494	0.16042	AVG		0.16860		3.13301	30.00000	O
2,4-Dimethylphenol	0.31950	0.31174	0.31094	0.29694	0.28730	0.28032	AVG		0.30112		5.11905	15.00000	O
Bis(2-Chloroethoxy)methane	0.39499	0.46905	0.44647	0.41460	0.40704	0.39389	AVG		0.42101		7.20846	15.00000	O
Caprolactam	0.08851	0.08412	0.08864	0.08357	0.08279	0.08530	AVG		0.08549		2.95827	15.00000	O
4-Chloro-3-Methylphenol	0.26579	0.25939	0.26265	0.24091	0.23562	0.21875	AVG		0.24718		7.49501	30.00000	O
2,4,5-Trichlorophenol	0.36331	0.37055	0.37973	0.36674	0.35051	0.35485	AVG		0.36428		2.91497	15.00000	O
2-Chloronaphthalene	1.46726	1.41883	1.38009	1.39614	1.31911	1.31452	AVG		1.38266		4.25876	15.00000	O
Dimethyl Phthalate	1.21458	1.17779	1.13809	1.06373	1.00892	0.98147	AVG		1.09743		8.57244	15.00000	O
Acenaphthylene	1.66472	1.57187	1.50356	1.42650	1.30580	1.25046	AVG		1.45382		10.8712	15.00000	O
Acenaphthene	0.98358	0.95666	0.92076	0.88807	0.81375	0.80874	AVG		0.89526		8.11675	30.00000	O
4-Nitrophenol	0.17181	0.15974	0.20805	0.17110	0.16884	0.16669	AVG		0.17437		9.78352	15.00000	O
2,3,4,6-Tetrachlorophenol	0.28140	0.28340	0.29055	0.25546	0.25342	0.25710	AVG		0.27022		6.15726	15.00000	O
Diethylphthalate	1.20662	1.16331	1.13811	1.01095	0.93494	0.90593	AVG		1.05998		11.9374	15.00000	O
Fluorene	1.17282	1.16497	1.10694	1.03885	0.96716	0.92742	AVG		1.06303		9.64297	15.00000	O
4-Chlorophenyl-phenylether	0.54401	0.53196	0.52673	0.49628	0.47239	0.45928	AVG		0.50511		6.82963	15.00000	O
N-Nitrosodiphenylamine	0.62645	0.61453	0.57492	0.60060	0.57853	0.57992	AVG		0.59582		3.59977	30.00000	O
4-Bromophenyl-phenylether	0.21796	0.20069	0.20188	0.20762	0.20477	0.19859	AVG		0.20525		3.40386	15.00000	O
Anthracene	0.99663	0.93752	0.87853	0.86823	0.81217	0.79010	AVG		0.88053		8.75762	15.00000	O
Carbazole	0.85013	0.76920	0.81809	0.74036	0.71313	0.73528	AVG		0.77103		6.87405	15.00000	O
Di-n-butylphthalate	1.27631	1.19654	1.13294	0.97884	0.94521	0.94732	AVG		1.07953		13.1607	15.00000	O
Fluoranthene	0.97247	0.90298	0.94097	0.79838	0.76626	0.75781	AVG		0.85648		10.9532	30.00000	O
Butylbenzylphthalate	0.64005	0.61943	0.58218	0.54003	0.55237	0.54475	AVG		0.57980		7.22311	15.00000	O
Di-n-octylphthalate	1.81649	1.63565	1.87804	1.46516	1.56816	1.63607	AVG		1.66660		9.26963	30.00000	O
Benzo(k)fluoranthene	1.07911	1.05329	1.05729	1.01039	0.99992	0.99125	AVG		1.03188		3.48594	15.00000	O
Benzo(g,h,i)perylene	0.59167	0.63743	0.60132	0.61755	0.60861	0.57745	AVG		0.60567		3.43961	15.00000	O
2-Fluorophenol	1.16319	1.14746	1.13691	1.16943	1.14792	1.08439	AVG		1.14155		2.65997	15.00000	
Phenol-D6	1.44286	1.42322	1.36045	1.41276	1.38785	1.36397	AVG		1.39852		2.37934	15.00000	
Nitrobenzene-D5	0.32848	0.31798	0.32307	0.31976	0.31002	0.31029	AVG		0.31827		2.27125	15.00000	
2-Fluorobiphenyl	1.15271	1.13800	1.08257	1.07884	1.02434	0.97890	AVG		1.07589		6.14802	15.00000	
2,4,6-Tribromophenol	0.17894	0.17643	0.18135	0.16194	0.15856	0.15750	AVG		0.16912		6.46192	15.00000	
Terphenyl-D14	0.92555	0.92317	0.81272	0.81855	0.83666	0.83233	AVG		0.85816		6.06195	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6201.D U6202.D U6200.D U6203.D U6204.D U6205.D
Column ID:
Calibration Date(s): 30-JUN-14 10:09
30-JUN-14 13:49

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

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sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
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Column ID:
Calibration Date(s): 30-JUN-14 10:09, 30-JUN-14 13:49

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	10.0000	25.0000	50.0000	75.0000	100.0000	125.0000	New	b	m1	m2	%RSD	%RSD	
Benzaldehyde	0.15539	0.15033	0.13878	0.13702	0.12523	0.11577	AVG		0.13709		10.85949	15.00000	O
Phenol	1.53256	1.51327	1.48366	1.44497	1.38141	1.40132	AVG		1.45953		4.16835	30.00000	O
Isophorone	0.62793	0.61119	0.61074	0.59912	0.58069	0.59092	AVG		0.60343		2.77897	15.00000	O
2-Nitrophenol	0.17547	0.16933	0.17181	0.16965	0.16494	0.16042	AVG		0.16860		3.13301	30.00000	O
2,4-Dimethylphenol	0.31950	0.31174	0.31094	0.29694	0.28730	0.28032	AVG		0.30112		5.11905	15.00000	O
Bis(2-Chloroethoxy)methane	0.39499	0.46905	0.44647	0.41460	0.40704	0.39389	AVG		0.42101		7.20846	15.00000	O
2,4-Dichlorophenol	0.27979	0.28113	0.26901	0.25744	0.24497	0.23476	AVG		0.26118		7.22517	30.00000	O
Caprolactam	0.08851	0.08412	0.08864	0.08357	0.08279	0.08530	AVG		0.08549		2.95827	15.00000	O
4-Chloro-3-Methylphenol	0.26579	0.25939	0.26265	0.24091	0.23562	0.21875	AVG		0.24718		7.49501	30.00000	O
2-Methylnaphthalene	0.62849	0.60119	0.57901	0.54511	0.51852	0.51328	AVG		0.56427		8.22345	15.00000	O
Hexachlorocyclopentadiene	0.36163	0.36238	0.35004	0.33780	0.31007	0.29263	AVG		0.33576		8.53466	15.00000	O
2,4,5-Trichlorophenol	0.36331	0.37055	0.37973	0.36674	0.35051	0.35485	AVG		0.36428		2.91497	15.00000	O
2-Nitroaniline	0.30819	0.30995	0.31914	0.30468	0.30127	0.29634	AVG		0.30660		2.56096	15.00000	O
Dimethyl Phthalate	1.21458	1.17779	1.13809	1.06373	1.00892	0.98147	AVG		1.09743		8.57244	15.00000	O
Acenaphthylene	1.66472	1.57187	1.50356	1.42650	1.30580	1.25046	AVG		1.45382		10.87127	15.00000	O
3-Nitroaniline	0.23090	0.23052	0.26188	0.24720	0.25043	0.25824	AVG		0.24653		5.40877	15.00000	O
Dibenzofuran	1.41525	1.37018	1.36127	1.28988	1.22655	1.18222	AVG		1.30756		6.92456	15.00000	O
4-Nitrophenol	0.17181	0.15974	0.20805	0.17110	0.16884	0.16669	AVG		0.17437		9.78352	15.00000	O
Diethylphthalate	1.20662	1.16331	1.13811	1.01095	0.93494	0.90593	AVG		1.05998		11.93742	15.00000	O
Fluorene	1.17282	1.16497	1.10694	1.03885	0.96716	0.92742	AVG		1.06303		9.64297	15.00000	O
4-Chlorophenyl-phenylether	0.54401	0.53196	0.52673	0.49628	0.47239	0.45928	AVG		0.50511		6.82963	15.00000	O
4-Bromophenyl-phenylether	0.21796	0.20069	0.20188	0.20762	0.20477	0.19859	AVG		0.20525		3.40386	15.00000	O
Phenanthrene	1.02214	0.96111	0.90874	0.89338	0.85009	0.84873	AVG		0.91403		7.37336	15.00000	O
Anthracene	0.99663	0.93752	0.87853	0.86823	0.81217	0.79010	AVG		0.88053		8.75762	15.00000	O
Carbazole	0.85013	0.76920	0.81809	0.74036	0.71313	0.73528	AVG		0.77103		6.87405	15.00000	O
Fluoranthene	0.97247	0.90298	0.94097	0.79838	0.76626	0.75781	AVG		0.85648		10.95328	30.00000	O
Pyrene	1.44894	1.41961	1.23999	1.26648	1.31003	1.28531	AVG		1.32839		6.44884	15.00000	O
Chrysene	0.93088	0.87886	0.80859	0.83179	0.77773	0.77181	AVG		0.83327		7.41351	15.00000	O
bis(2-Ethylhexyl)phthalate	0.89093	0.85422	0.81018	0.73208	0.74820	0.74303	AVG		0.79644		8.28681	15.00000	O
Di-n-octylphthalate	1.81649	1.63565	1.87804	1.46516	1.56816	1.63607	AVG		1.66660		9.26963	30.00000	O
Benzo(k)fluoranthene	1.07911	1.05329	1.05729	1.01039	0.99992	0.99125	AVG		1.03188		3.48594	15.00000	O
Dibenzo(a,h)anthracene	0.52651	0.56700	0.56453	0.59444	0.58453	0.57740	AVG		0.56907		4.14995	15.00000	O
Benzo(g,h,i)perylene	0.59167	0.63743	0.60132	0.61755	0.60861	0.57745	AVG		0.60567		3.43961	15.00000	O
2-Fluorophenol	1.16319	1.14746	1.13691	1.16943	1.14792	1.08439	AVG		1.14155		2.65997	15.00000	
Phenol-D6	1.44286	1.42322	1.36045	1.41276	1.38785	1.36397	AVG		1.39852		2.37934	15.00000	
Nitrobenzene-D5	0.32848	0.31798	0.32307	0.31976	0.31002	0.31029	AVG		0.31827		2.27125	15.00000	
2-Fluorobiphenyl	1.15271	1.13800	1.08257	1.07884	1.02434	0.97890	AVG		1.07589		6.14802	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6201.D U6202.D U6200.D U6203.D U6204.D U6205.D
Column ID:
Calibration Date(s): 30-JUN-14 10:09, 30-JUN-14 13:49

2,4,6-Tribromophenol	0.17894	0.17643	0.18135	0.16194	0.15856	0.15750	AVG		0.16912		6.46192	15.00000	
Terphenyl-D14	0.92555	0.92317	0.81272	0.81855	0.83666	0.83233	AVG		0.85816		6.06195	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Report Date: 30-Jun-2014 15:18

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: 021497
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: WG145667-8
Level: LOW Operator: JCG
Data Type: MS DATA SampleType: INDCHECK
SpikeList File: INDcheck8270.spk Quant Type: ISTD
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Misc Info: WG145667,WG145667,WG144667-4

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 1,4-Dioxane	50.0	52.8	105.56	80-120
2 N-Nitrosodimethyla	50.0	48.9	97.77	80-120
3 Pyridine	50.0	55.3	110.70	80-120
5 2-Picoline	50.0	63.1	126.18*	80-120
6 N-Nitrosomethyleth	50.0	59.8	119.60	80-120
7 Methyl Methanesulf	50.0	45.7	91.38	80-120
9 N-Nitrosodiethylam	50.0	60.1	120.21*	80-120
10 Ethyl Methanesulfo	50.0	51.2	102.43	80-120
11 Benzaldehyde	50.0	39.4	78.74*	80-120
12 Aniline	50.0	52.5	104.98	80-120
15 Phenol	50.0	52.1	104.30	80-120
16 Bis(2-Chloroethyl)	50.0	49.4	98.75	80-120
17 2-Chlorophenol	50.0	50.4	100.78	80-120
18 1,3-Dichlorobenzen	50.0	50.9	101.80	80-120
20 1,4-Dichlorobenzen	50.0	49.9	99.75	80-120
21 1,2-Dichlorobenzen	50.0	48.8	97.56	80-120
22 Benzyl alcohol	50.0	48.0	96.05	80-120
25 2,2'-Oxybis(1-chlo	50.0	35.4	70.84*	80-120
23 2-Methylphenol	50.0	50.6	101.20	80-120
27 Acetophenone	100	100	100.59	80-120
26 N-Nitrosopyrrolidi	50.0	61.0	122.07*	80-120
29 o-Toluidine	50.0	59.1	118.15	80-120
28 N-Nitrosomorpholin	50.0	61.0	121.97*	80-120
30 N-Nitroso-di-n-pro	50.0	45.2	90.41	80-120
32 Hexachloroethane	50.0	49.6	99.13	80-120
31 3&4-Methylphenol	50.0	49.8	99.68	80-120
34 Nitrobenzene	50.0	48.4	96.91	80-120
35 N-Nitrosopiperidin	50.0	59.9	119.81	80-120
36 Isophorone	50.0	49.5	99.07	80-120
37 2-Nitrophenol	50.0	51.5	103.02	80-120
38 2,4-Dimethylphenol	50.0	50.5	101.04	80-120
39 O,O,O-Triethylphos	50.0	56.2	112.37	80-120
40 Bis(2-Chloroethoxy	50.0	53.6	107.19	80-120
41 2,4-Dichlorophenol	50.0	52.0	104.08	80-120
43 1,2,4-Trichloroben	50.0	50.1	100.26	80-120
42 Benzoic acid	50.0	54.4	108.81	80-120
45 Naphthalene	50.0	49.8	99.70	80-120
47 2,6-Dichlorophenol	50.0	55.4	110.85	80-120
46 4-Chloroaniline	50.0	52.3	104.55	80-120
48 Hexachloropropene	50.0	54.4	108.73	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Report Date: 30-Jun-2014 15:18

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
50	Hexachlorobutadien	50.0	49.0	98.11	80-120
49	A,A-Dimethylphene	50.0	0.000	*	80-120
53	N-Nitroso-Di-N-But	50.0	60.3	120.59*	80-120
51	p-Phenylenediamine	50.0	0.000	*	80-120
52	Caprolactam	50.0	50.3	100.56	80-120
54	4-Chloro-3-Methylp	50.0	54.8	109.64	80-120
55	Isosafrole	50.0	52.8	105.64	80-120
56	2-Methylnaphthalen	50.0	50.6	101.13	80-120
57	1-Methylnaphthalen	50.0	50.4	100.82	80-120
59	1,2,4,5-Tetrachlor	100	101	101.36	80-120
58	Diethyl Adipate	50.0	0.000	*	80-120
60	Hexachlorocyclopen	50.0	38.9	77.85*	80-120
61	2,4,6-Trichlorophe	50.0	52.7	105.40	80-120
62	2,4,5-Trichlorophe	50.0	53.5	106.94	80-120
64	Safrole	50.0	55.5	110.96	80-120
65	2-Chloronaphthalen	50.0	53.4	106.70	80-120
66	1,1'-Biphenyl	50.0	53.7	107.45	80-120
67	1-Chloronaphthalen	50.0	50.4	100.79	80-120
69	2-Nitroaniline	50.0	45.4	90.92	80-120
70	1,4-Naphthoquinone	50.0	73.7	147.35*	80-120
72	1,3-Dinitrobenzene	50.0	53.3	106.54	80-120
73	Dimethyl Phthalate	50.0	51.0	102.04	80-120
74	2,6-Dinitrotoluene	50.0	52.4	104.73	80-120
75	Acenaphthylene	50.0	46.0	92.06	80-120
77	3-Nitroaniline	50.0	50.0	100.02	80-120
79	Acenaphthene	50.0	48.7	97.36	80-120
80	2,4-Dinitrophenol	50.0	55.0	109.98	80-120
81	Pentachlorobenzene	50.0	55.2	110.35	80-120
82	Dibenzofuran	50.0	52.0	103.99	80-120
83	4-Nitrophenol	50.0	53.0	106.06	80-120
84	2,4-Dinitrotoluene	50.0	48.6	97.29	80-120
85	1-Naphthylamine	50.0	54.4	108.73	80-120
87	2,3,4,6-Tetrachlor	50.0	51.4	102.75	80-120
88	2-Naphthylamine	50.0	56.3	112.63	80-120
89	Diethylphthalate	50.0	50.6	101.28	80-120
90	Fluorene	50.0	49.8	99.58	80-120
91	4-Chlorophenyl-phe	50.0	51.1	102.12	80-120
93	O,O-diethyl-o-2-py	50.0	56.3	112.57	80-120
92	5-Nitro-O-Toluidin	50.0	63.5	126.97*	80-120
94	4-Nitroaniline	50.0	53.8	107.65	80-120
95	4,6-Dinitro-2-Meth	50.0	54.2	108.47	80-120
96	N-Nitrosodiphenyla	100	85.8	85.83	80-120
98	1,2-Diphenylhydraz	50.0	47.2	94.37	80-120
101	Sulfotepp	50.0	54.2	108.40	80-120
103	Diallate	50.0	55.7	111.49	80-120
104	Phorate	50.0	32.8	65.62*	80-120
102	1,3,5-Trinitrobenz	50.0	57.4	114.89	80-120
105	4-Bromophenyl-phen	50.0	49.7	99.43	80-120
106	Phenacetin	50.0	56.2	112.44	80-120
107	Hexachlorobenzene	50.0	47.8	95.63	80-120
108	Dimethoate	50.0	55.5	111.09	80-120
109	Atrazine	50.0	13.3	26.67*	80-120
110	Pentachlorophenol	50.0	55.3	110.62	80-120
112	Pentachloronitrobe	50.0	53.8	107.67	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
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SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
111 4-Aminobiphenyl	50.0	47.7	95.48	80-120
113 Pronamide	50.0	55.0	109.99	80-120
115 Phenanthrene	50.0	48.4	96.76	80-120
116 Anthracene	50.0	48.8	97.67	80-120
118 Disulfoton	50.0	53.2	106.43	80-120
117 Dinoseb	50.0	56.7	113.32	80-120
119 Carbazole	50.0	50.6	101.25	80-120
120 Methyl Parathion	50.0	60.9	121.87*	80-120
121 Di-n-butylphthalat	50.0	52.2	104.33	80-120
122 4-Nitroquinoline-1	50.0	58.1	116.13	80-120
123 Ethyl Parathion	50.0	58.2	116.30	80-120
124 Methapyrilene	50.0	57.7	115.39	80-120
125 Isodrin	50.0	52.8	105.55	80-120
126 Fluoranthene	50.0	47.8	95.66	80-120
127 Benzidine	50.0	39.0	77.95*	80-120
128 Pyrene	50.0	47.4	94.74	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	54.8	109.60	80-120
132 Chlorobenzilate	50.0	53.9	107.79	80-120
133 Kepone	50.0	0.000	*	80-120
134 3,3'-Dimethylbenzi	50.0	65.9	131.77*	80-120
135 Butylbenzylphthala	50.0	46.7	93.45	80-120
136 Bis(2-ethylhexyl)a	50.0	41.5	82.95	80-120
137 2-Acetylaminofluor	50.0	59.2	118.48	80-120
138 Famphur	50.0	0.000	0.00*	80-120
139 Benzo(a)anthracene	50.0	45.5	91.05	80-120
141 3,3'-Dichlorobenzi	50.0	52.4	104.81	80-120
142 Chrysene	50.0	49.9	99.74	80-120
143 bis(2-Ethylhexyl)p	50.0	47.4	94.90	80-120
144 Di-n-octylphthalat	50.0	48.9	97.76	80-120
145 Benzo(b)fluoranthe	50.0	49.7	99.38	80-120
146 7,12-Dimethylbenz(	50.0	54.0	107.92	80-120
147 Benzo(k)fluoranthe	50.0	50.4	100.90	80-120
148 Benzo(a)pyrene	50.0	47.6	95.29	80-120
150 3-Methylcholanthre	50.0	57.0	114.10	80-120
151 Hexachlorophene	50.0	0.000	*	80-120
152 Dibenz(a,j)acridin	50.0	56.0	111.93	80-120
153 Indeno(1,2,3-cd)py	50.0	50.8	101.72	80-120
154 Dibenzo(a,h)anthra	50.0	50.2	100.46	80-120
155 Benzo(g,h,i)peryle	50.0	50.0	99.97	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	20-110
$ 13 Phenol-D6	100	0.000	*	10-115
$ 33 Nitrobenzene-D5	50.0	0.000	*	40-110
$ 63 2-Fluorobiphenyl	50.0	0.000	*	50-110
$ 100 2,4,6-Tribromophe	100	0.000	*	40-125
$ 129 Terphenyl-D14	50.0	0.000	*	50-135

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Report Date: 03-Jul-2014 16:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Lab Smp Id: WG145667-4
Inj Date : 30-JUN-2014 10:09 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 14-JUN-2014 13:01 Cal File: U5870.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.069	3.121	(0.271)	125121	50.0000	51.0	
	3 Pyridine	79	3.556	3.607	(0.417)	539606	50.0000	52.5	
	2 N-Nitrosodimethylamine	42	3.525	3.586	(0.414)	202154	50.0000	50.7	
	4 Ethyl Methacrylate	69	4.311	4.352	(0.506)	357720	50.0000	48.7	
	5 2-Picoline	93	4.818	4.828	(0.565)	437997	50.0000	47.3	
	6 N-Nitrosomethylethylamine	88	5.046	5.077	(0.592)	195245	50.0000	48.0	
	7 Methyl Methanesulfonate	80	5.626	5.677	(0.660)	305930	50.0000	50.5	
$	8 2-Fluorophenol	112	5.988	6.029	(0.703)	440374	50.0000	49.8	
	9 N-Nitrosodiethylamine	102	6.371	6.412	(0.747)	195674	50.0000	48.6	
	10 Ethyl Methanesulfonate	79	7.033	7.085	(0.825)	362208	50.0000	48.1	
	11 Benzaldehyde	77	7.613	7.623	(0.893)	53754	50.0000	50.6	
	14 Pentachloroethane	117	7.923	7.944	(0.930)	167112	50.0000	50.3	
	12 Aniline	93	7.861	7.902	(0.922)	710258	50.0000	48.6	
	16 Bis(2-Chloroethyl)ether	93	8.048	8.089	(0.944)	445016	50.0000	48.9	
$	13 Phenol-D6	99	7.923	7.964	(0.930)	526957	50.0000	48.6	
	15 Phenol	94	7.954	7.996	(0.933)	574683	50.0000	50.8	
	17 2-Chlorophenol	128	8.110	8.140	(0.951)	464224	50.0000	49.9	
	18 1,3-Dichlorobenzene	146	8.400	8.430	(0.985)	509441	50.0000	49.9	
*	19 1,4-Dichlorobenzene-D4	152	8.524	8.544	(1.000)	309873	40.0000		
	20 1,4-Dichlorobenzene	146	8.565	8.586	(1.005)	520589	50.0000	50.3	
	21 1,2-Dichlorobenzene	146	8.876	8.896	(1.041)	495453	50.0000	49.9	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.917	8.958	(1.046)	309405	50.0000	50.5	
	24 Bis(2-Chloroisopropyl)ether	45	9.238	9.248	(1.084)	539194	50.0000	49.0	
	25 2,2'-Oxybis(1-chloropropane)	45	9.238	9.248	(1.084)	539194	50.0000	49.0	
	23 2-Methylphenol	108	9.228	9.269	(1.083)	428426	50.0000	49.7(M)	M9
	27 Acetophenone	105	9.445	9.476	(0.833)	604517	50.0000	50.7	
	32 Hexachloroethane	117	9.610	9.621	(1.127)	209045	50.0000	51.1	
	26 N-Nitrosopyrrolidine	100	9.414	9.507	(1.104)	222835	50.0000	51.2	
	29 o-Toluidine	106	9.528	9.558	(1.118)	568249	50.0000	49.1	
	28 N-Nitrosomorpholine	56	9.497	9.558	(1.114)	242765	50.0000	49.7	
	30 N-Nitroso-di-n-propylamine	70	9.528	9.589	(1.118)	325968	50.0000	49.0	
	31 3&4-Methylphenol	108	9.600	9.641	(1.126)	435447	50.0000	49.4	
$	33 Nitrobenzene-D5	82	9.745	9.786	(0.859)	492491	50.0000	50.8	
	34 Nitrobenzene	77	9.786	9.828	(0.863)	478942	50.0000	50.7	
	35 N-Nitrosopiperidine	114	10.128	10.169	(0.893)	207159	50.0000	50.4	
	36 Isophorone	82	10.376	10.407	(0.915)	931009	50.0000	50.6	
	37 2-Nitrophenol	139	10.511	10.531	(0.927)	261911	50.0000	51.0	
	38 2,4-Dimethylphenol	107	10.759	10.800	(0.949)	473991	50.0000	51.6	
	40 Bis(2-Chloroethoxy)methane	93	10.946	10.976	(0.965)	680602	50.0000	53.0	
	39 O,O,O-Triethylphosphorothioat	198	10.925	10.956	(0.963)	207048	50.0000	52.0	
	41 2,4-Dichlorophenol	162	11.101	11.132	(0.979)	410078	50.0000	51.5	
	43 1,2,4-Trichlorobenzene	180	11.246	11.266	(0.992)	403322	50.0000	51.4	
*	44 Naphthalene-D8	136	11.339	11.359	(1.000)	1219522	40.0000		
	42 Benzoic acid	122	11.142	11.297	(0.983)	223999	50.0000	54.1(M)	M9
	45 Naphthalene	128	11.391	11.411	(1.005)	1215989	50.0000	51.4	
	49 A,A-Dimethylphenethylamine	58	11.743	12.063	(1.036)	818297	50.0000	55.6(M)	M9
	48 Hexachloropropene	213	11.629	11.639	(1.026)	296578	50.0000	54.0	
	47 2,6-Dichlorophenol	162	11.608	11.618	(1.024)	365067	50.0000	52.5	
	46 4-Chloroaniline	127	11.598	11.628	(1.023)	503089	50.0000	51.7	
	50 Hexachlorobutadiene	225	11.774	11.784	(1.038)	243225	50.0000	51.3	
	53 N-Nitroso-Di-N-Butylamine	84	12.488	12.519	(1.101)	374809	50.0000	55.0	
	52 Caprolactam	113	12.477	12.612	(1.100)	135124	50.0000	51.8(Q)	
	51 p-Phenylenediamine	108	12.467	12.519	(1.099)	318888	50.0000	53.5	
	55 Isosafrole	162	12.902	12.933	(1.138)	354012	50.0000	51.8	
	56 2-Methylnaphthalene	142	13.026	13.046	(1.149)	882640	50.0000	51.3	
	54 4-Chloro-3-Methylphenol	107	12.871	12.922	(1.135)	400382	50.0000	53.1(Q)	
	57 1-Methylnaphthalene	142	13.243	13.264	(1.168)	825046	50.0000	51.4	
	59 1,2,4,5-Tetrachlorobenzene	216	13.430	13.450	(0.869)	400873	50.0000	51.3	
	60 Hexachlorocyclopentadiene	237	13.450	13.471	(0.871)	298306	50.0000	52.1	
	61 2,4,6-Trichlorophenol	196	13.751	13.781	(0.890)	302153	50.0000	51.5	
$	63 2-Fluorobiphenyl	172	13.958	13.978	(0.904)	922573	50.0000	50.3	
	62 2,4,5-Trichlorophenol	196	13.833	13.874	(0.895)	323612	50.0000	52.1	
	64 Safrole	104	14.123	14.154	(0.914)	164368	50.0000	53.4(Q)	
	65 2-Chloronaphthalene	162	14.144	14.154	(0.916)	1176119	50.0000	49.9	
	66 1,1'-Biphenyl	154	14.154	14.185	(0.916)	916950	50.0000	52.0	
	67 1-Chloronaphthalene	162	14.185	14.216	(0.918)	802784	50.0000	52.0	
	68 Diphenylether	170	14.434	14.444	(0.934)	556881	50.0000	51.2	
	69 2-Nitroaniline	65	14.465	14.495	(0.936)	271971	50.0000	52.0	
	70 1,4-Naphthoquinone	158	14.579	14.599	(0.944)	215890	50.0000	49.9	
	71 1,4-Dinitrobenzene	75	14.786	14.827	(0.957)	164135	50.0000	52.4	
	75 Acenaphthylene	152	15.096	15.127	(0.977)	1281339	50.0000	51.7	
	73 Dimethyl Phthalate	163	15.013	15.054	(0.972)	969886	50.0000	51.8	
	72 1,3-Dinitrobenzene	168	14.982	15.023	(0.970)	159130	50.0000	53.3	
	74 2,6-Dinitrotoluene	165	15.075	15.116	(0.976)	221485	50.0000	53.0	
	76 1,2-Dinitrobenzene	50	15.169	15.220	(0.982)	117262	50.0000	55.0	

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Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 78 Acenaphthene-D10	164	15.448	15.458	(1.000)	681765	40.0000		
79 Acenaphthene	153	15.531	15.551	(1.005)	784680	50.0000	51.4	
77 3-Nitroaniline	138	15.458	15.510	(1.001)	223177	50.0000	53.1	
80 2,4-Dinitrophenol	184	15.707	15.769	(1.017)	138407	50.0000	59.2	
82 Dibenzofuran	168	15.945	15.976	(1.032)	1160086	50.0000	52.0	
81 Pentachlorobenzene	250	15.872	15.893	(1.027)	355261	50.0000	50.5	
85 1-Naphthylamine	143	16.141	16.172	(1.045)	780593	50.0000	53.3	
84 2,4-Dinitrotoluene	165	16.028	16.079	(1.038)	287100	50.0000	54.0	
86 2,3,5,6-Tetrachlorophenol	232	16.204	16.234	(1.049)	255938	50.0000	54.1	
88 2-Naphthylamine	143	16.348	16.390	(1.058)	747113	50.0000	54.0	
83 4-Nitrophenol	139	16.028	16.079	(1.038)	177299	50.0000	59.6	
87 2,3,4,6-Tetrachlorophenol	232	16.317	16.338	(1.056)	247608	50.0000	53.8	
90 Fluorene	166	16.752	16.783	(1.084)	943339	50.0000	52.1	
89 Diethylphthalate	149	16.711	16.741	(1.082)	969903	50.0000	53.7	
91 4-Chlorophenyl-phenylether	204	16.845	16.855	(1.090)	448883	50.0000	52.1	
93 O,O-diethyl-o-2-pyrazinylphos	107	16.876	16.907	(1.092)	175638	50.0000	53.2	
92 5-Nitro-O-Toluidine	152	16.866	16.917	(1.092)	211620	50.0000	56.3(Q)	
94 4-Nitroaniline	138	16.918	16.969	(1.095)	194469	50.0000	56.0(Q)	
95 4,6-Dinitro-2-Methylphenol	198	16.990	17.042	(0.897)	177150	50.0000	52.1	
96 N-Nitrosodiphenylamine	169	17.145	17.176	(0.905)	781426	50.0000	48.2	
97 N-Nitrosodiphenylamine/DPA	169	17.145	17.176	(0.905)	781426	50.0000	48.2	
98 1,2-Diphenylhydrazine	77	17.207	17.228	(0.908)	958336	50.0000	46.4	
99 Azobenzene	77	17.207	17.228	(0.908)	958336	50.0000	46.5	
$ 100 2,4,6-Tribromophenol	330	17.342	17.362	(1.123)	154545	50.0000	53.6	
101 Sulfotepp	97	17.684	17.704	(0.933)	171776	50.0000	49.3	
103 Diallate	86	17.901	17.921	(0.945)	352226	50.0000	46.7	
105 4-Bromophenyl-phenylether	248	17.984	18.004	(0.949)	274399	50.0000	49.2	
104 Phorate	75	17.901	17.932	(0.945)	735567	50.0000	52.0	
102 1,3,5-Trinitrobenzene	213	17.891	17.952	(0.944)	74251	50.0000	57.5(Q)	
106 Phenacetin	108	18.035	18.097	(0.952)	424713	50.0000	55.0	
107 Hexachlorobenzene	284	18.077	18.097	(0.954)	315658	50.0000	48.2	
108 Dimethoate	87	18.284	18.325	(0.965)	332557	50.0000	54.5	
109 Atrazine	200	18.553	18.573	(0.979)	219356	50.0000	51.5	
111 4-Aminobiphenyl	169	18.615	18.635	(0.983)	705682	50.0000	51.3	
110 Pentachlorophenol	266	18.594	18.615	(0.981)	196477	50.0000	52.4	
112 Pentachloronitrobenzene	237	18.615	18.635	(0.983)	113621	50.0000	50.2	
* 114 Phenanthrene-D10	188	18.946	18.967	(1.000)	1087358	40.0000		
113 Pronamide	173	18.915	18.936	(0.998)	413260	50.0000	52.2	
115 Phenanthrene	178	19.008	19.029	(1.003)	1235152	50.0000	49.7	
116 Anthracene	178	19.122	19.153	(1.009)	1194102	50.0000	49.9	
118 Disulfoton	88	19.153	19.163	(1.011)	528683	50.0000	49.8	
117 Dinoseb	211	19.143	19.153	(1.010)	210276	50.0000	52.0(Q)	
119 Carbazole	167	19.567	19.598	(1.033)	1111940	50.0000	53.0	
120 Methyl Parathion	109	20.002	20.012	(1.056)	287766	50.0000	55.7	
121 Di-n-butylphthalate	149	20.644	20.654	(1.090)	1539885	50.0000	52.5	
122 4-Nitroquinoline-1-Oxide	190	20.871	20.902	(1.102)	83660	50.0000	58.2	
123 Ethyl Parathion	291	20.985	20.995	(1.108)	81828	50.0000	53.9	
124 Methapyrilene	97	20.975	20.995	(1.107)	198372	50.0000	54.9(Q)	
125 Isodrin	193	21.461	21.471	(1.133)	169384	50.0000	51.6	
126 Fluoranthene	202	21.813	21.834	(1.151)	1278958	50.0000	54.9	
128 Pyrene	202	22.320	22.341	(0.885)	1305078	50.0000	46.7	
127 Benzidine	184	22.258	22.268	(0.882)	238126	50.0000	51.3	
$ 129 Terphenyl-D14	244	22.859	22.879	(0.906)	855383	50.0000	47.4	
130 Aramite	185	23.159	23.158	(0.918)	82360	50.0000	49.2	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.221	23.231	(0.920)	211136	50.0000	49.1	
132	Chlorobenzilate	251	23.397	23.407	(0.927)	343780	50.0000	48.4	
134	3,3'-Dimethylbenzidine	212	24.018	24.028	(0.952)	243682	50.0000	49.5	
135	Butylbenzylphthalate	149	24.163	24.173	(0.958)	612736	50.0000	50.2	
136	Bis(2-ethylhexyl)adipate	129	24.525	24.535	(0.972)	529224	50.0000	48.6	
137	2-Acetylaminofluorene	181	24.608	24.628	(0.975)	307886	50.0000	51.2	
139	Benzo(a)anthracene	228	25.208	25.218	(0.999)	977529	50.0000	50.1	
* 140	Chrysene-D12	240	25.229	25.239	(1.000)	841991	40.0000		
142	Chrysene	228	25.291	25.301	(1.002)	851029	50.0000	48.5	
141	3,3'-Dichlorobenzidine	252	25.260	25.270	(1.001)	277550	50.0000	49.8	
143	bis(2-Ethylhexyl)phthalate	149	25.664	25.674	(1.017)	852710	50.0000	50.9	
144	Di-n-octylphthalate	149	27.123	27.133	(0.957)	1377333	50.0000	56.3	
145	Benzo(b)fluoranthene	252	27.589	27.609	(0.973)	750379	50.0000	51.2	
146	7,12-Dimethylbenz(A)Anthracen	256	27.620	27.630	(0.974)	369278	50.0000	51.7	
147	Benzo(k)fluoranthene	252	27.661	27.671	(0.976)	775401	50.0000	51.2(H)	
148	Benzo(a)pyrene	252	28.230	28.251	(0.996)	631470	50.0000	49.5	
* 149	Perylene-D12	264	28.344	28.354	(1.000)	586711	40.0000		
150	3-Methylcholanthrene	268	28.965	28.986	(1.022)	290607	50.0000	50.4	
152	Dibenz(a,j)acridine	279	30.145	30.166	(1.064)	338225	50.0000	49.9	
153	Indeno(1,2,3-cd)pyrene	276	30.497	30.507	(1.076)	422881	50.0000	50.7	
154	Dibenzo(a,h)anthracene	278	30.570	30.590	(1.079)	414022	50.0000	49.6	
155	Benzo(g,h,i)perylene	276	31.077	31.097	(1.096)	441002	50.0000	49.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Date : 30-JUN-2014 10:09
Client ID:
Sample Info: WG145667-4
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCC
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Naphthalene-D8+
-Hexachloropropene+
-Hexachlorobutadiene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Acenaphthylene+
-Acenaphthene
-2,4-Dinitrophenol
-Pentachlorobenzene
-Dibenzofuran
-2-Naphthylamine+
-4-Chlorophenyl-phenylethe+
-Fluorene
-4,6-Dinitro-2-Methylpheno
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Phenacetin+
-Dimethoate
-Atrazine+
-4-Aminobiphenyl+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate+
-Famphur
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(k)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine+
-Total PAHs
Safrole+
Acenaphthene-D10+
Diallate+

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Report Date: 03-Jul-2014 16:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Lab Smp Id: WG145667-2
Inj Date : 30-JUN-2014 10:56
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 10:56 Cal File: U6201.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.079	3.121	(0.272)	29064	10.0000	10.6	
	3 Pyridine	79	3.586	3.607	(0.421)	114969	10.0000	9.95(a)	
	2 N-Nitrosodimethylamine	42	3.524	3.586	(0.413)	46504	10.0000	10.4	
	4 Ethyl Methacrylate	69	4.311	4.352	(0.506)	85328	10.0000	10.3	
	5 2-Picoline	93	4.849	4.828	(0.569)	100758	10.0000	9.67(a)	
	6 N-Nitrosomethylethylamine	88	5.066	5.077	(0.594)	40347	10.0000	8.83(a)	
	7 Methyl Methanesulfonate	80	5.625	5.677	(0.660)	66179	10.0000	9.71(a)	
$	8 2-Fluorophenol	112	5.977	6.029	(0.701)	101303	10.0000	10.2	
	9 N-Nitrosodiethylamine	102	6.381	6.412	(0.749)	44689	10.0000	9.87(a)	
	10 Ethyl Methanesulfonate	79	7.033	7.085	(0.825)	86466	10.0000	10.2	
	11 Benzaldehyde	77	7.612	7.623	(0.893)	13533	10.0000	11.3	
	14 Pentachloroethane	117	7.923	7.944	(0.930)	39271	10.0000	10.5	
	12 Aniline	93	7.861	7.902	(0.922)	167324	10.0000	10.2(a)	
	16 Bis(2-Chloroethyl)ether	93	8.047	8.089	(0.944)	109859	10.0000	10.7	
$	13 Phenol-D6	99	7.912	7.964	(0.928)	125660	10.0000	10.3	
	15 Phenol	94	7.933	7.996	(0.931)	133472	10.0000	10.5	
	17 2-Chlorophenol	128	8.099	8.140	(0.950)	108687	10.0000	10.4	
	18 1,3-Dichlorobenzene	146	8.399	8.430	(0.985)	124148	10.0000	10.8	
*	19 1,4-Dichlorobenzene-D4	152	8.523	8.544	(1.000)	348363	40.0000		
	20 1,4-Dichlorobenzene	146	8.564	8.586	(1.005)	123825	10.0000	10.6	
	21 1,2-Dichlorobenzene	146	8.885	8.896	(1.042)	118146	10.0000	10.6	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.906	8.958	(1.045)	68399	10.0000	9.92(a)	
	24 Bis(2-Chloroisopropyl)ether	45	9.237	9.248	(1.084)	134621	10.0000	10.9	
	25 2,2'-Oxybis(1-chloropropane)	45	9.237	9.248	(1.084)	133842	10.0000	10.8	
	23 2-Methylphenol	108	9.216	9.269	(1.081)	99177	10.0000	10.2	
	27 Acetophenone	105	9.444	9.476	(0.833)	139621	10.0000	10.5	
	32 Hexachloroethane	117	9.610	9.621	(1.127)	51279	10.0000	11.2	
	26 N-Nitrosopyrrolidine	100	9.382	9.507	(1.101)	48077	10.0000	9.82(a)	
	29 o-Toluidine	106	9.517	9.558	(1.117)	139829	10.0000	10.8(a)	
	28 N-Nitrosomorpholine	56	9.465	9.558	(1.111)	58233	10.0000	10.6	
	30 N-Nitroso-di-n-propylamine	70	9.506	9.589	(1.115)	81070	10.0000	10.8	
	31 3&4-Methylphenol	108	9.579	9.641	(1.124)	103856	10.0000	10.5	
$	33 Nitrobenzene-D5	82	9.734	9.786	(0.859)	111706	10.0000	10.3	
	34 Nitrobenzene	77	9.775	9.828	(0.862)	113078	10.0000	10.7	
	35 N-Nitrosopiperidine	114	10.117	10.169	(0.892)	46942	10.0000	10.2	
	36 Isophorone	82	10.365	10.407	(0.914)	213542	10.0000	10.4	
	37 2-Nitrophenol	139	10.510	10.531	(0.927)	59673	10.0000	10.4	
	38 2,4-Dimethylphenol	107	10.748	10.800	(0.948)	108653	10.0000	10.6	
	40 Bis(2-Chloroethoxy)methane	93	10.945	10.976	(0.965)	134324	10.0000	9.38(a)	
	39 O,O,O-Triethylphosphorothioat	198	10.914	10.956	(0.963)	46430	10.0000	10.4	
	41 2,4-Dichlorophenol	162	11.090	11.132	(0.978)	95150	10.0000	10.7	
	43 1,2,4-Trichlorobenzene	180	11.245	11.266	(0.992)	95406	10.0000	10.9	
*	44 Naphthalene-D8	136	11.338	11.359	(1.000)	1360286	40.0000		
	42 Benzoic acid	122	11.017	11.297	(0.972)	39933	10.0000	8.65(a)	
	45 Naphthalene	128	11.380	11.411	(1.004)	295353	10.0000	11.2	
	48 Hexachloropropene	213	11.628	11.639	(1.026)	66956	10.0000	10.9	
	47 2,6-Dichlorophenol	162	11.607	11.618	(1.024)	86501	10.0000	11.2	
	46 4-Chloroaniline	127	11.597	11.628	(1.023)	121786	10.0000	11.2	
	50 Hexachlorobutadiene	225	11.773	11.784	(1.038)	58806	10.0000	11.1	
	53 N-Nitroso-Di-N-Butylamine	84	12.477	12.519	(1.100)	73359	10.0000	9.64(a)	
	52 Caprolactam	113	12.404	12.612	(1.094)	30101	10.0000	10.4(Q)	
	51 p-Phenylenediamine	108	12.456	12.519	(1.099)	68610	10.0000	7.23(a)	
	55 Isosafrole	162	12.901	12.933	(1.138)	85264	10.0000	11.2	
	56 2-Methylnaphthalene	142	13.015	13.046	(1.148)	213733	10.0000	11.1	
	54 4-Chloro-3-Methylphenol	107	12.849	12.922	(1.133)	90387	10.0000	10.8	
	57 1-Methylnaphthalene	142	13.232	13.264	(1.167)	202509	10.0000	11.3	
	59 1,2,4,5-Tetrachlorobenzene	216	13.429	13.450	(0.869)	96970	10.0000	11.0	
	60 Hexachlorocyclopentadiene	237	13.450	13.471	(0.871)	69472	10.0000	10.8	
	61 2,4,6-Trichlorophenol	196	13.750	13.781	(0.890)	69245	10.0000	10.5	
$	63 2-Fluorobiphenyl	172	13.947	13.978	(0.903)	221444	10.0000	10.7	
	62 2,4,5-Trichlorophenol	196	13.833	13.874	(0.895)	69794	10.0000	9.97(a)	
	64 Safrole	104	14.122	14.154	(0.914)	37440	10.0000	10.8(Q)	
	65 2-Chloronaphthalene	162	14.133	14.154	(0.915)	281871	10.0000	10.6	
	66 1,1'-Biphenyl	154	14.154	14.185	(0.916)	229327	10.0000	11.5	
	67 1-Chloronaphthalene	162	14.174	14.216	(0.918)	200657	10.0000	11.5	
	68 Diphenylether	170	14.423	14.444	(0.934)	132035	10.0000	10.8	
	69 2-Nitroaniline	65	14.454	14.495	(0.936)	59205	10.0000	10.0(a)	
	70 1,4-Naphthoquinone	158	14.568	14.599	(0.943)	63907	10.0000	10.3	
	71 1,4-Dinitrobenzene	75	14.775	14.827	(0.956)	33822	10.0000	9.58(a)	
	75 Acenaphthylene	152	15.085	15.127	(0.977)	319803	10.0000	11.4	
	73 Dimethyl Phthalate	163	14.992	15.054	(0.971)	233328	10.0000	11.1(M)	M6
	72 1,3-Dinitrobenzene	168	14.971	15.023	(0.969)	33054	10.0000	9.82(a)	
	74 2,6-Dinitrotoluene	165	15.064	15.116	(0.975)	51621	10.0000	11.0	
	76 1,2-Dinitrobenzene	50	15.157	15.220	(0.981)	24048	10.0000	10.0	
*	78 Acenaphthene-D10	164	15.447	15.458	(1.000)	768426	40.0000		

DJP

8:15 am, Jul 16, 2014

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
79	Acenaphthene	153	15.509	15.551	(1.004)	188953	10.0000	11.0	
77	3-Nitroaniline	138	15.437	15.510	(0.999)	44357	10.0000	9.36(a)	
80	2,4-Dinitrophenol	184	15.696	15.769	(1.016)	20349	10.0000	7.72(a)	
82	Dibenzofuran	168	15.934	15.976	(1.031)	271879	10.0000	10.8	
81	Pentachlorobenzene	250	15.861	15.893	(1.027)	85482	10.0000	10.8	
85	1-Naphthylamine	143	16.130	16.172	(1.044)	176224	10.0000	10.7	
84	2,4-Dinitrotoluene	165	16.006	16.079	(1.036)	61218	10.0000	10.2	
86	2,3,5,6-Tetrachlorophenol	232	16.192	16.234	(1.048)	55335	10.0000	10.4	
88	2-Naphthylamine	143	16.327	16.390	(1.057)	170323	10.0000	10.9	
83	4-Nitrophenol	139	16.006	16.079	(1.036)	33006	10.0000	9.85(a)	
87	2,3,4,6-Tetrachlorophenol	232	16.296	16.338	(1.055)	54058	10.0000	10.4	
90	Fluorene	166	16.741	16.783	(1.084)	225307	10.0000	11.0	
89	Diethylphthalate	149	16.689	16.741	(1.080)	231800	10.0000	11.4	
91	4-Chlorophenyl-phenylether	204	16.834	16.855	(1.090)	104508	10.0000	10.8	
93	O,O-diethyl-o-2-pyrazinylphos	107	16.855	16.907	(1.091)	42294	10.0000	11.4(a)	
92	5-Nitro-O-Toluidine	152	16.845	16.917	(1.090)	46731	10.0000	11.0(Q)	
94	4-Nitroaniline	138	16.876	16.969	(1.092)	39365	10.0000	10.1(a)	
95	4,6-Dinitro-2-Methylphenol	198	16.958	17.042	(0.895)	33754	10.0000	9.46(a)	
96	N-Nitrosodiphenylamine	169	17.134	17.176	(0.904)	178758	10.0000	10.5	
97	N-Nitrosodiphenylamine/DPA	169	17.134	17.176	(0.904)	178758	10.0000	10.5	
98	1,2-Diphenylhydrazine	77	17.196	17.228	(0.908)	223035	10.0000	10.3(a)	
99	Azobenzene	77	17.196	17.228	(0.908)	222650	10.0000	10.3(a)	
$ 100	2,4,6-Tribromophenol	330	17.321	17.362	(1.121)	34375	10.0000	10.6	
101	Sulfotepp	97	17.673	17.704	(0.933)	40493	10.0000	11.1	
103	Diallate	86	17.890	17.921	(0.944)	89862	10.0000	11.4	
105	4-Bromophenyl-phenylether	248	17.973	18.004	(0.949)	62196	10.0000	10.6	
104	Phorate	75	17.880	17.932	(0.944)	149141	10.0000	10.0	
102	1,3,5-Trinitrobenzene	213	17.849	17.952	(0.942)	13296	10.0000	9.81(aQ)	
106	Phenacetin	108	17.983	18.097	(0.949)	84963	10.0000	10.5(H)	
107	Hexachlorobenzene	284	18.066	18.097	(0.954)	76053	10.0000	11.0	
108	Dimethoate	87	18.242	18.325	(0.963)	77503	10.0000	8.85(a)	
109	Atrazine	200	18.521	18.573	(0.978)	53227	10.0000	8.18(aH)	
111	4-Aminobiphenyl	169	18.594	18.635	(0.981)	174382	10.0000	12.1	
110	Pentachlorophenol	266	18.573	18.615	(0.980)	41359	10.0000	10.5(a)	
112	Pentachloronitrobenzene	237	18.604	18.635	(0.982)	26103	10.0000	11.0	
* 114	Phenanthrene-D10	188	18.946	18.967	(1.000)	1141395	40.0000		
113	Pronamide	173	18.894	18.936	(0.997)	94141	10.0000	11.3	
115	Phenanthrene	178	18.987	19.029	(1.002)	291666	10.0000	11.2	
116	Anthracene	178	19.111	19.153	(1.009)	284386	10.0000	11.3	
118	Disulfoton	88	19.132	19.163	(1.010)	130582	10.0000	11.7	
117	Dinoseb	211	19.122	19.153	(1.009)	45582	10.0000	10.7	
119	Carbazole	167	19.556	19.598	(1.032)	242583	10.0000	11.0	
120	Methyl Parathion	109	19.991	20.012	(1.055)	64628	10.0000	9.17(a)	
121	Di-n-butylphthalate	149	20.633	20.654	(1.089)	364194	10.0000	11.8	
123	Ethyl Parathion	291	20.974	20.995	(1.107)	17764	10.0000	11.1(a)	
125	Isodrin	193	21.450	21.471	(1.132)	39348	10.0000	11.4	
126	Fluoranthene	202	21.802	21.834	(1.151)	277492	10.0000	11.4	
128	Pyrene	202	22.309	22.341	(0.885)	291875	10.0000	10.9	
$ 129	Terphenyl-D14	244	22.858	22.879	(0.906)	186443	10.0000	10.8	
130	Aramite	185	23.148	23.158	(0.918)	17929	10.0000	11.2(a)	
131	p-Dimethylaminoazobenzene	225	23.210	23.231	(0.920)	41372	10.0000	10.0	
132	Chlorobenzilate	251	23.396	23.407	(0.928)	72956	10.0000	10.7	
135	Butylbenzylphthalate	149	24.152	24.173	(0.958)	128933	10.0000	11.0	
136	Bis(2-ethylhexyl)adipate	129	24.514	24.535	(0.972)	114697	10.0000	11.0	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
137	2-Acetylaminofluorene	181	24.586	24.628	(0.975)	50620	10.0000	8.80(a)	
139	Benzo(a)anthracene	228	25.197	25.218	(0.999)	195220	10.0000	10.4	
* 140	Chrysene-D12	240	25.218	25.239	(1.000)	805763	40.0000		
142	Chrysene	228	25.270	25.301	(1.002)	187517	10.0000	11.2	
141	3,3'-Dichlorobenzidine	252	25.249	25.270	(1.001)	51150	10.0000	9.59(a)	
143	bis(2-Ethylhexyl)phthalate	149	25.663	25.674	(1.018)	179470	10.0000	11.2	
144	Di-n-octylphthalate	149	27.122	27.133	(0.957)	268560	10.0000	10.9	
145	Benzo(b)fluoranthene	252	27.578	27.609	(0.973)	158943	10.0000	10.7	
146	7,12-Dimethylbenz(A)Anthracen	256	27.598	27.630	(0.974)	79213	10.0000	11.0	
147	Benzo(k)fluoranthene	252	27.640	27.671	(0.975)	159542	10.0000	10.4(H)	
148	Benzo(a)pyrene	252	28.219	28.251	(0.996)	133416	10.0000	10.4	
* 149	Perylene-D12	264	28.344	28.354	(1.000)	591381	40.0000		
150	3-Methylcholanthrene	268	28.965	28.986	(1.022)	58436	10.0000	10.1	
152	Dibenz(a,j)acridine	279	30.144	30.166	(1.064)	59898	10.0000	8.77(a)	
153	Indeno(1,2,3-cd)pyrene	276	30.486	30.507	(1.076)	82886	10.0000	9.86(a)	
154	Dibenzo(a,h)anthracene	278	30.569	30.590	(1.079)	77842	10.0000	9.25(a)	
155	Benzo(g,h,i)perylene	276	31.066	31.097	(1.096)	87475	10.0000	9.77(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Date : 30-JUN-2014 10:56
Client ID:
Sample Info: WG145667-2
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Y (x10^6)
Min
-1,4-Dioxane+
-Pyridine
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-Hexachloropropene+
-Hexachlorobutadiene
Naphthalene-D8+
-Caprolactam
-N-Nitroso-Di-N-Butylamine+
-1,2,4,5-Tetrachlorobenzen+
-Safrole+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Acenaphthene
Acenaphthene-D10+
-2-Naphthylamine+
-Sulfotepp
-Dimethoate
-Atrazine
-4-Aminobiphenyl+
-Pronamide
-Anthracene+
Phenanthrene-D10+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide+
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Benzo(g,h,i)perylene
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Report Date: 03-Jul-2014 16:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Lab Smp Id: WG145667-3
Inj Date : 30-JUN-2014 11:40 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 11:40 Cal File: U6202.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.068	3.121	(0.271)	66444	25.0000	26.1	
	3 Pyridine	79	3.565	3.607	(0.418)	263555	25.0000	24.9(a)	
	2 N-Nitrosodimethylamine	42	3.524	3.586	(0.413)	100455	25.0000	24.4	
	4 Ethyl Methacrylate	69	4.310	4.352	(0.506)	197875	25.0000	26.1	
	5 2-Picoline	93	4.828	4.828	(0.566)	222871	25.0000	23.3	
	6 N-Nitrosomethylethylamine	88	5.055	5.077	(0.593)	103949	25.0000	24.8	
	7 Methyl Methanesulfonate	80	5.614	5.677	(0.659)	152042	25.0000	24.3	
$	8 2-Fluorophenol	112	5.977	6.029	(0.701)	229121	25.0000	25.1	
	9 N-Nitrosodiethylamine	102	6.370	6.412	(0.747)	101390	25.0000	24.4	
	10 Ethyl Methanesulfonate	79	7.022	7.085	(0.824)	189810	25.0000	24.4	
	11 Benzaldehyde	77	7.612	7.623	(0.893)	30017	25.0000	27.4	
	14 Pentachloroethane	117	7.922	7.944	(0.930)	89643	25.0000	26.2	
	12 Aniline	93	7.860	7.902	(0.922)	384711	25.0000	25.5	
	16 Bis(2-Chloroethyl)ether	93	8.047	8.089	(0.944)	239106	25.0000	25.5	
$	13 Phenol-D6	99	7.912	7.964	(0.928)	284186	25.0000	25.4	
	15 Phenol	94	7.943	7.996	(0.932)	302165	25.0000	25.9	
	17 2-Chlorophenol	128	8.098	8.140	(0.950)	247131	25.0000	25.7	
	18 1,3-Dichlorobenzene	146	8.399	8.430	(0.985)	276710	25.0000	26.3	
*	19 1,4-Dichlorobenzene-D4	152	8.523	8.544	(1.000)	319484	40.0000		
	20 1,4-Dichlorobenzene	146	8.564	8.586	(1.005)	279889	25.0000	26.2	
	21 1,2-Dichlorobenzene	146	8.875	8.896	(1.041)	271199	25.0000	26.5	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
22	Benzyl alcohol	108	8.906	8.958	(1.045)	154389	25.0000	24.4	
24	Bis(2-Chloroisopropyl)ether	45	9.237	9.248	(1.084)	291281	25.0000	25.7	
25	2,2'-Oxybis(1-chloropropane)	45	9.237	9.248	(1.084)	291281	25.0000	25.7	
23	2-Methylphenol	108	9.216	9.269	(1.081)	220192	25.0000	24.8	
27	Acetophenone	105	9.444	9.476	(0.833)	318377	25.0000	25.7	
32	Hexachloroethane	117	9.609	9.621	(1.127)	111773	25.0000	26.5	
26	N-Nitrosopyrrolidine	100	9.392	9.507	(1.102)	112238	25.0000	25.0	
29	o-Toluidine	106	9.516	9.558	(1.117)	311116	25.0000	26.1	
28	N-Nitrosomorpholine	56	9.475	9.558	(1.112)	121984	25.0000	24.2	
30	N-Nitroso-di-n-propylamine	70	9.516	9.589	(1.117)	177073	25.0000	25.8	
31	3&4-Methylphenol	108	9.578	9.641	(1.124)	238548	25.0000	26.3	
$ 33	Nitrobenzene-D5	82	9.744	9.786	(0.859)	251850	25.0000	25.0	
34	Nitrobenzene	77	9.785	9.828	(0.863)	249703	25.0000	25.4	
35	N-Nitrosopiperidine	114	10.117	10.169	(0.892)	107736	25.0000	25.2	
36	Isophorone	82	10.365	10.407	(0.914)	484082	25.0000	25.3	
37	2-Nitrophenol	139	10.510	10.531	(0.927)	134112	25.0000	25.1	
38	2,4-Dimethylphenol	107	10.748	10.800	(0.948)	246905	25.0000	25.9	
40	Bis(2-Chloroethoxy)methane	93	10.934	10.976	(0.964)	371502	25.0000	27.8	
39	O,O,O-Triethylphosphorothioat	198	10.914	10.956	(0.963)	107773	25.0000	26.0	
41	2,4-Dichlorophenol	162	11.090	11.132	(0.978)	222659	25.0000	26.9	
43	1,2,4-Trichlorobenzene	180	11.245	11.266	(0.992)	216103	25.0000	26.5	
* 44	Naphthalene-D8	136	11.338	11.359	(1.000)	1267241	40.0000		
42	Benzoic acid	122	11.059	11.297	(0.975)	92101	25.0000	21.4(a)	
45	Naphthalene	128	11.379	11.411	(1.004)	658141	25.0000	26.8	
49	A,A-Dimethylphenethylamine	58	11.421	12.063	(1.007)	444758	25.0000	29.0(M)	M9
48	Hexachloropropene	213	11.628	11.639	(1.026)	155141	25.0000	27.2	
47	2,6-Dichlorophenol	162	11.607	11.618	(1.024)	196352	25.0000	27.2	
46	4-Chloroaniline	127	11.597	11.628	(1.023)	279229	25.0000	27.6	
50	Hexachlorobutadiene	225	11.773	11.784	(1.038)	134017	25.0000	27.2	
53	N-Nitroso-Di-N-Butylamine	84	12.476	12.519	(1.100)	169427	25.0000	23.9	
52	Caprolactam	113	12.425	12.612	(1.096)	66625	25.0000	24.6	
51	p-Phenylenediamine	108	12.456	12.519	(1.099)	171681	25.0000	19.6	
55	Isosafrole	162	12.901	12.933	(1.138)	188955	25.0000	26.6	
56	2-Methylnaphthalene	142	13.015	13.046	(1.148)	476161	25.0000	26.6	
54	4-Chloro-3-Methylphenol	107	12.849	12.922	(1.133)	205440	25.0000	26.2	
57	1-Methylnaphthalene	142	13.232	13.264	(1.167)	441324	25.0000	26.5	
59	1,2,4,5-Tetrachlorobenzene	216	13.429	13.450	(0.869)	212523	25.0000	26.5	
60	Hexachlorocyclopentadiene	237	13.449	13.471	(0.871)	158545	25.0000	27.0	
61	2,4,6-Trichlorophenol	196	13.750	13.781	(0.890)	158159	25.0000	26.2	
$ 63	2-Fluorobiphenyl	172	13.946	13.978	(0.903)	497891	25.0000	26.4	
62	2,4,5-Trichlorophenol	196	13.832	13.874	(0.895)	162119	25.0000	25.4	
64	Safrole	104	14.122	14.154	(0.914)	83036	25.0000	26.2	
65	2-Chloronaphthalene	162	14.133	14.154	(0.915)	620757	25.0000	25.6	
66	1,1'-Biphenyl	154	14.153	14.185	(0.916)	506834	25.0000	28.0	
67	1-Chloronaphthalene	162	14.174	14.216	(0.918)	446526	25.0000	28.2	
68	Diphenylether	170	14.422	14.444	(0.934)	292407	25.0000	26.2	
69	2-Nitroaniline	65	14.453	14.495	(0.936)	135607	25.0000	25.3	
70	1,4-Naphthoquinone	158	14.567	14.599	(0.943)	146283	25.0000	30.6	
71	1,4-Dinitrobenzene	75	14.774	14.827	(0.956)	78519	25.0000	24.4	
75	Acenaphthylene	152	15.095	15.127	(0.977)	687716	25.0000	27.0	
73	Dimethyl Phthalate	163	14.992	15.054	(0.971)	515300	25.0000	26.8	
72	1,3-Dinitrobenzene	168	14.971	15.023	(0.969)	77922	25.0000	25.4	
74	2,6-Dinitrotoluene	165	15.064	15.116	(0.975)	115081	25.0000	26.8	
76	1,2-Dinitrobenzene	50	15.157	15.220	(0.981)	55828	25.0000	25.5	

DJP

8:15 am, Jul 16, 2014

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	15.447	15.458	(1.000)	700023	40.0000		
	79 Acenaphthene	153	15.519	15.551	(1.005)	418552	25.0000	26.7	
	77 3-Nitroaniline	138	15.437	15.510	(0.999)	100858	25.0000	23.4(a)	
	80 2,4-Dinitrophenol	184	15.695	15.769	(1.016)	54679	25.0000	22.8(a)	
	82 Dibenzofuran	168	15.933	15.976	(1.031)	599475	25.0000	26.2	
	81 Pentachlorobenzene	250	15.861	15.893	(1.027)	191725	25.0000	26.5	
	85 1-Naphthylamine	143	16.130	16.172	(1.044)	395308	25.0000	26.3	
	84 2,4-Dinitrotoluene	165	16.016	16.079	(1.037)	143320	25.0000	26.2	
	86 2,3,5,6-Tetrachlorophenol	232	16.192	16.234	(1.048)	126659	25.0000	26.0	
	88 2-Naphthylamine	143	16.327	16.390	(1.057)	375106	25.0000	26.4	
	83 4-Nitrophenol	139	16.006	16.079	(1.036)	69887	25.0000	22.9(a)	
	87 2,3,4,6-Tetrachlorophenol	232	16.296	16.338	(1.055)	123991	25.0000	26.2	
	90 Fluorene	166	16.741	16.783	(1.084)	509689	25.0000	27.4	
	89 Diethylphthalate	149	16.699	16.741	(1.081)	508963	25.0000	27.4	
	91 4-Chlorophenyl-phenylether	204	16.834	16.855	(1.090)	232741	25.0000	26.3	
	93 O,O-diethyl-o-2-pyrazinylphos	107	16.865	16.907	(1.092)	92427	25.0000	27.3	
	92 5-Nitro-O-Toluidine	152	16.844	16.917	(1.090)	100166	25.0000	25.9	
	94 4-Nitroaniline	138	16.886	16.969	(1.093)	85357	25.0000	24.0(a)	
	95 4,6-Dinitro-2-Methylphenol	198	16.968	17.042	(0.896)	77861	25.0000	24.1(a)	
	96 N-Nitrosodiphenylamine	169	17.134	17.176	(0.904)	396634	25.0000	25.8	
	97 N-Nitrosodiphenylamine/DPA	169	17.134	17.176	(0.904)	396634	25.0000	25.8	
	98 1,2-Diphenylhydrazine	77	17.196	17.228	(0.908)	504431	25.0000	25.7	
	99 Azobenzene	77	17.196	17.228	(0.908)	503095	25.0000	25.7	
$	100 2,4,6-Tribromophenol	330	17.331	17.362	(1.122)	77189	25.0000	26.1	
	101 Sulfotepp	97	17.672	17.704	(0.933)	89383	25.0000	27.0	
	103 Diallate	86	17.890	17.921	(0.944)	195522	25.0000	27.3	
	105 4-Bromophenyl-phenylether	248	17.972	18.004	(0.949)	129532	25.0000	24.4	
	104 Phorate	75	17.890	17.932	(0.944)	377789	25.0000	28.1	
	102 1,3,5-Trinitrobenzene	213	17.869	17.952	(0.943)	31248	25.0000	25.5(Q)	
	106 Phenacetin	108	17.993	18.097	(0.950)	179228	25.0000	24.5	
	107 Hexachlorobenzene	284	18.066	18.097	(0.954)	164827	25.0000	26.5	
	108 Dimethoate	87	18.252	18.325	(0.963)	158066	25.0000	21.3	
	109 Atrazine	200	18.531	18.573	(0.978)	114671	25.0000	21.6	
	111 4-Aminobiphenyl	169	18.593	18.635	(0.981)	357740	25.0000	27.4	
	110 Pentachlorophenol	266	18.573	18.615	(0.980)	89959	25.0000	25.3	
	112 Pentachloronitrobenzene	237	18.604	18.635	(0.982)	59694	25.0000	27.8	
*	114 Phenanthrene-D10	188	18.945	18.967	(1.000)	1032682	40.0000		
	113 Pronamide	173	18.894	18.936	(0.997)	200374	25.0000	26.6	
	115 Phenanthrene	178	18.997	19.029	(1.003)	620324	25.0000	26.3	
	116 Anthracene	178	19.111	19.153	(1.009)	605099	25.0000	26.6	
	118 Disulfoton	88	19.142	19.163	(1.010)	281433	25.0000	27.9	
	117 Dinoseb	211	19.121	19.153	(1.009)	103179	25.0000	26.8	
	119 Carbazole	167	19.556	19.598	(1.032)	496461	25.0000	24.9	
	120 Methyl Parathion	109	19.991	20.012	(1.055)	137634	25.0000	23.5	
	121 Di-n-butylphthalate	149	20.632	20.654	(1.089)	772276	25.0000	27.7	
	122 4-Nitroquinoline-1-Oxide	190	20.860	20.902	(1.101)	27254	25.0000	21.2(aQ)	
	123 Ethyl Parathion	291	20.974	20.995	(1.107)	36795	25.0000	25.5	
	124 Methapyrilene	97	20.974	20.995	(1.107)	90485	25.0000	26.4(Q)	
	125 Isodrin	193	21.450	21.471	(1.132)	84064	25.0000	27.0	
	126 Fluoranthene	202	21.802	21.834	(1.151)	582806	25.0000	26.4	
	128 Pyrene	202	22.309	22.341	(0.885)	590755	25.0000	26.7	
	127 Benzidine	184	22.247	22.268	(0.882)	86074	25.0000	23.5(a)	
$	129 Terphenyl-D14	244	22.858	22.879	(0.906)	384167	25.0000	26.9	
	130 Aramite	185	23.147	23.158	(0.918)	37686	25.0000	28.5	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.210	23.231	(0.920)	90943	25.0000	26.8	
132	Chlorobenzilate	251	23.396	23.407	(0.928)	152019	25.0000	27.0	
134	3,3'-Dimethylbenzidine	212	24.007	24.028	(0.952)	83685	25.0000	23.3	
135	Butylbenzylphthalate	149	24.151	24.173	(0.958)	257770	25.0000	26.7	
136	Bis(2-ethylhexyl)adipate	129	24.514	24.535	(0.972)	238377	25.0000	27.7	
137	2-Acetylaminofluorene	181	24.586	24.628	(0.975)	110290	25.0000	23.2	
139	Benzo(a)anthracene	228	25.197	25.218	(0.999)	393188	25.0000	25.5	
* 140	Chrysene-D12	240	25.217	25.239	(1.000)	665820	40.0000		
142	Chrysene	228	25.269	25.301	(1.002)	365728	25.0000	26.4	
141	3,3'-Dichlorobenzidine	252	25.249	25.270	(1.001)	106590	25.0000	24.2	
143	bis(2-Ethylhexyl)phthalate	149	25.663	25.674	(1.018)	355475	25.0000	26.8	
144	Di-n-octylphthalate	149	27.122	27.133	(0.957)	513454	25.0000	24.5	
145	Benzo(b)fluoranthene	252	27.577	27.609	(0.973)	308002	25.0000	24.5	
146	7,12-Dimethylbenz(A)Anthracen	256	27.598	27.630	(0.974)	150373	25.0000	24.6	
147	Benzo(k)fluoranthene	252	27.639	27.671	(0.975)	330645	25.0000	25.5(H)	
148	Benzo(a)pyrene	252	28.219	28.251	(0.996)	273504	25.0000	25.0	
* 149	Perylene-D12	264	28.343	28.354	(1.000)	502264	40.0000		
150	3-Methylcholanthrene	268	28.964	28.986	(1.022)	122073	25.0000	24.8	
152	Dibenz(a,j)acridine	279	30.134	30.166	(1.063)	151000	25.0000	26.0	
153	Indeno(1,2,3-cd)pyrene	276	30.486	30.507	(1.076)	174990	25.0000	24.5	
154	Dibenzo(a,h)anthracene	278	30.558	30.590	(1.078)	177990	25.0000	24.9	
155	Benzo(g,h,i)perylene	276	31.065	31.097	(1.096)	200100	25.0000	26.3	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Date : 30-JUN-2014 11:40
Client ID:
Sample Info: WG145667-3
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-2-Picoline+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-N-Nitrosopyrrolidine
-Nitrobenzene-D5+
-o-Toluidine+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-1,2,4-Trichlorobenzene
-Hexachloropropene+
Naphthalene-D8+
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2-Fluorobiphenyl
-Safrole+
-Diphenylether+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthylene
-Acenaphthene
-2,4-Dinitrophenol
Acenaphthene-D10+
-2-Naphthylamine+
-Fluorene+
-4-Chlorophenyl-phenylethe+
-Sulfotepp
-Diallate+
-Dimethoate
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-Terphenyl-D14
-Aramite+
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-Famphur
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Report Date: 03-Jul-2014 16:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Lab Smp Id: WG145667-5
Inj Date : 30-JUN-2014 12:23 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 12:23 Cal File: U6203.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.082	3.121	(0.272)	206673	75.0000	74.7	
	3 Pyridine	79	3.569	3.607	(0.418)	834592	75.0000	76.0	
	2 N-Nitrosodimethylamine	42	3.548	3.586	(0.416)	332594	75.0000	78.0	
	4 Ethyl Methacrylate	69	4.324	4.352	(0.507)	602086	75.0000	76.7	
	5 2-Picoline	93	4.811	4.828	(0.564)	802117	75.0000	81.0	
	6 N-Nitrosomethylethylamine	88	5.059	5.077	(0.593)	349729	75.0000	80.6	
	7 Methyl Methanesulfonate	80	5.639	5.677	(0.661)	501590	75.0000	77.4	
$	8 2-Fluorophenol	112	6.001	6.029	(0.703)	725963	75.0000	76.8	
	9 N-Nitrosodiethylamine	102	6.384	6.412	(0.748)	335831	75.0000	78.1	
	10 Ethyl Methanesulfonate	79	7.046	7.085	(0.825)	616768	75.0000	76.6	
	11 Benzaldehyde	77	7.615	7.623	(0.892)	85060	75.0000	75.0	
	14 Pentachloroethane	117	7.926	7.944	(0.928)	265398	75.0000	74.8	
	12 Aniline	93	7.874	7.902	(0.922)	1191667	75.0000	76.3	
	16 Bis(2-Chloroethyl)ether	93	8.061	8.089	(0.944)	735946	75.0000	75.7	
$	13 Phenol-D6	99	7.947	7.964	(0.931)	877015	75.0000	75.8	
	15 Phenol	94	7.967	7.996	(0.933)	897014	75.0000	74.2	
	17 2-Chlorophenol	128	8.123	8.140	(0.952)	760189	75.0000	76.4	
	18 1,3-Dichlorobenzene	146	8.412	8.430	(0.985)	818310	75.0000	75.0	
*	19 1,4-Dichlorobenzene-D4	152	8.537	8.544	(1.000)	331084	40.0000		
	20 1,4-Dichlorobenzene	146	8.568	8.586	(1.004)	836117	75.0000	75.6	
	21 1,2-Dichlorobenzene	146	8.889	8.896	(1.041)	802174	75.0000	75.6	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.930	8.958	(1.046)	495231	75.0000	75.6	
	24 Bis(2-Chloroisopropyl)ether	45	9.240	9.248	(1.082)	876709	75.0000	74.6	
	25 2,2'-Oxybis(1-chloropropane)	45	9.240	9.248	(1.082)	876709	75.0000	74.6	
	23 2-Methylphenol	108	9.240	9.269	(1.082)	693693	75.0000	75.4(M)	M9
	27 Acetophenone	105	9.458	9.476	(0.834)	990586	75.0000	73.7	
	32 Hexachloroethane	117	9.613	9.621	(1.126)	321574	75.0000	73.6	
	26 N-Nitrosopyrrolidine	100	9.447	9.507	(1.107)	357783	75.0000	76.9	
	29 o-Toluidine	106	9.541	9.558	(1.118)	932091	75.0000	75.4	
	28 N-Nitrosomorpholine	56	9.520	9.558	(1.115)	415214	75.0000	79.5	
	30 N-Nitroso-di-n-propylamine	70	9.551	9.589	(1.119)	535513	75.0000	75.3	
	31 3&4-Methylphenol	108	9.613	9.641	(1.126)	702045	75.0000	74.6	
$	33 Nitrobenzene-D5	82	9.758	9.786	(0.860)	824255	75.0000	75.4	
	34 Nitrobenzene	77	9.799	9.828	(0.864)	790202	75.0000	74.2	
	35 N-Nitrosopiperidine	114	10.141	10.169	(0.894)	345507	75.0000	74.6	
	36 Isophorone	82	10.379	10.407	(0.915)	1544387	75.0000	74.5	
	37 2-Nitrophenol	139	10.524	10.531	(0.928)	437317	75.0000	75.5	
	38 2,4-Dimethylphenol	107	10.772	10.800	(0.950)	765429	75.0000	74.0	
	40 Bis(2-Chloroethoxy)methane	93	10.959	10.976	(0.966)	1068745	75.0000	73.8	
	39 O,O,O-Triethylphosphorothioat	198	10.928	10.956	(0.963)	314450	75.0000	70.1	
	41 2,4-Dichlorophenol	162	11.114	11.132	(0.980)	663606	75.0000	73.9	
	43 1,2,4-Trichlorobenzene	180	11.248	11.266	(0.992)	654891	75.0000	74.0	
*	44 Naphthalene-D8	136	11.342	11.359	(1.000)	1374804	40.0000		
	42 Benzoic acid	122	11.197	11.297	(0.987)	369772	75.0000	79.2(M)	M9
	45 Naphthalene	128	11.393	11.411	(1.005)	1943451	75.0000	72.9	
	49 A,A-Dimethylphenethylamine	58	11.900	12.063	(1.049)	1246599	75.0000	75.1(M)	M6
	48 Hexachloropropene	213	11.631	11.639	(1.026)	464889	75.0000	75.1	
	47 2,6-Dichlorophenol	162	11.611	11.618	(1.024)	573060	75.0000	73.1	
	46 4-Chloroaniline	127	11.611	11.628	(1.024)	812457	75.0000	74.0	
	50 Hexachlorobutadiene	225	11.776	11.784	(1.038)	388330	75.0000	72.6	
	53 N-Nitroso-Di-N-Butylamine	84	12.490	12.519	(1.101)	607096	75.0000	79.0	
	52 Caprolactam	113	12.532	12.612	(1.105)	215423	75.0000	73.3(Q)	
	51 p-Phenylenediamine	108	12.480	12.519	(1.100)	452768	75.0000	79.6	
	55 Isosafrole	162	12.915	12.933	(1.139)	566764	75.0000	73.5	
	56 2-Methylnaphthalene	142	13.029	13.046	(1.149)	1405150	75.0000	72.4	
	54 4-Chloro-3-Methylphenol	107	12.884	12.922	(1.136)	620999	75.0000	73.1	
	57 1-Methylnaphthalene	142	13.246	13.264	(1.168)	1314287	75.0000	72.6	
	59 1,2,4,5-Tetrachlorobenzene	216	13.443	13.450	(0.870)	630098	75.0000	74.8	
	60 Hexachlorocyclopentadiene	237	13.453	13.471	(0.871)	465106	75.0000	75.4	
	61 2,4,6-Trichlorophenol	196	13.763	13.781	(0.891)	470056	75.0000	74.4	
$	63 2-Fluorobiphenyl	172	13.960	13.978	(0.904)	1485415	75.0000	75.2	
	62 2,4,5-Trichlorophenol	196	13.846	13.874	(0.896)	504951	75.0000	75.5	
	64 Safrole	104	14.136	14.154	(0.915)	250595	75.0000	75.5(Q)	
	65 2-Chloronaphthalene	162	14.136	14.154	(0.915)	1922308	75.0000	75.7	
	66 1,1'-Biphenyl	154	14.167	14.185	(0.917)	1383572	75.0000	72.9	
	67 1-Chloronaphthalene	162	14.198	14.216	(0.919)	1209982	75.0000	72.7	
	68 Diphenylether	170	14.436	14.444	(0.934)	866178	75.0000	73.9	
	69 2-Nitroaniline	65	14.467	14.495	(0.936)	419511	75.0000	74.5	
	70 1,4-Naphthoquinone	158	14.581	14.599	(0.944)	298794	75.0000	67.4	
	71 1,4-Dinitrobenzene	75	14.798	14.827	(0.958)	251466	75.0000	74.6	
	75 Acenaphthylene	152	15.109	15.127	(0.978)	1964101	75.0000	73.6	
	73 Dimethyl Phthalate	163	15.026	15.054	(0.973)	1464610	75.0000	72.7	
	72 1,3-Dinitrobenzene	168	14.995	15.023	(0.971)	239389	75.0000	74.4	
	74 2,6-Dinitrotoluene	165	15.088	15.116	(0.977)	326976	75.0000	72.6	
	76 1,2-Dinitrobenzene	50	15.181	15.220	(0.983)	173313	75.0000	75.4	

DJP

8:15 am, Jul 16, 2014

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Report Date: 03-Jul-2014 16:20

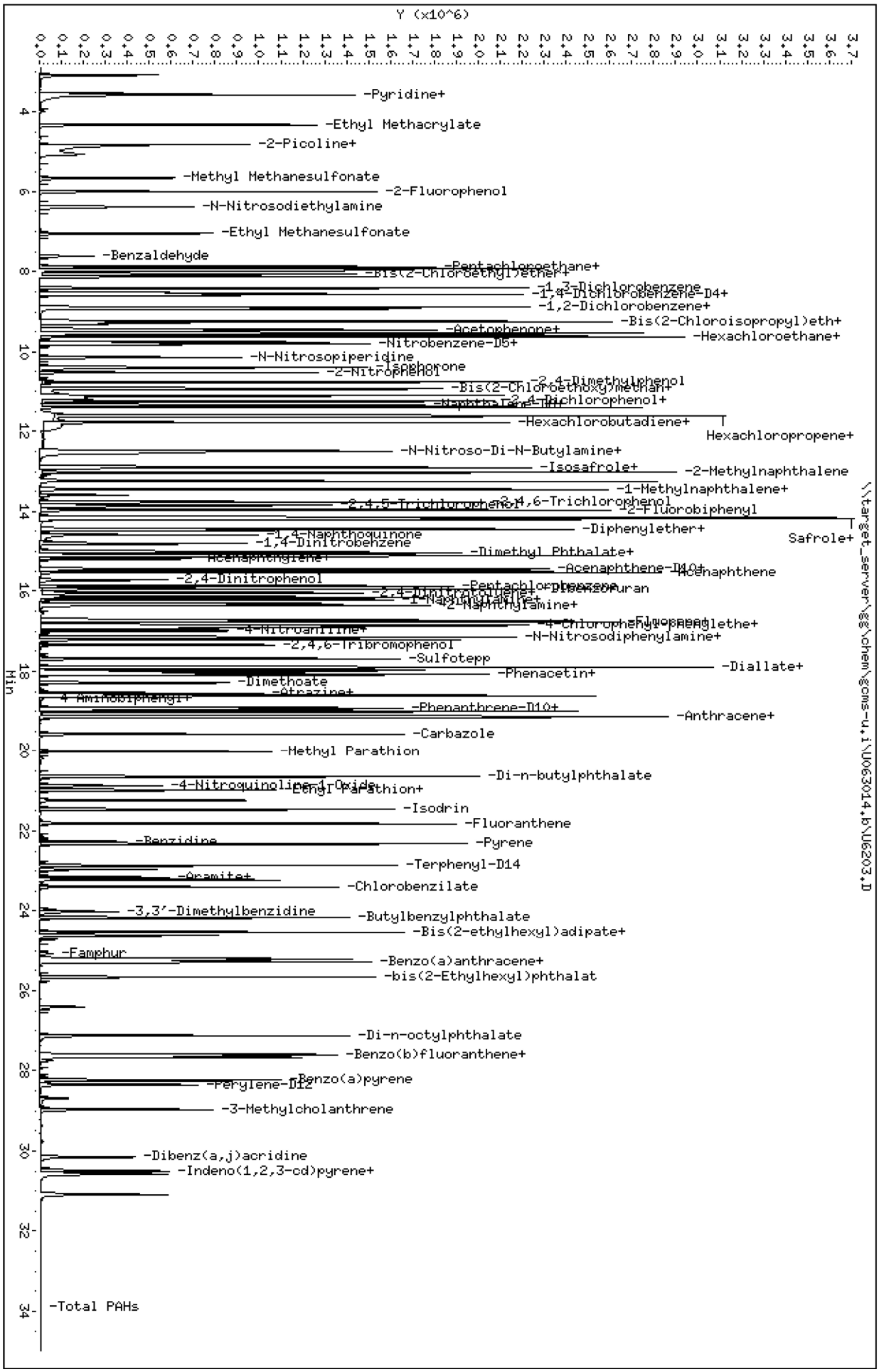
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	15.451	15.458	(1.000)	734330	40.0000		
	79 Acenaphthene	153	15.533	15.551	(1.005)	1222750	75.0000	74.4	
	77 3-Nitroaniline	138	15.471	15.510	(1.001)	340358	75.0000	75.2	
	80 2,4-Dinitrophenol	184	15.730	15.769	(1.018)	197205	75.0000	78.3	
	82 Dibenzofuran	168	15.958	15.976	(1.033)	1775993	75.0000	74.0	
	81 Pentachlorobenzene	250	15.875	15.893	(1.027)	563674	75.0000	74.4	
	85 1-Naphthylamine	143	16.154	16.172	(1.046)	1132313	75.0000	71.7	
	84 2,4-Dinitrotoluene	165	16.040	16.079	(1.038)	413318	75.0000	72.2	
	86 2,3,5,6-Tetrachlorophenol	232	16.216	16.234	(1.050)	377122	75.0000	74.0	
	88 2-Naphthylamine	143	16.361	16.390	(1.059)	1074250	75.0000	72.1	
	83 4-Nitrophenol	139	16.040	16.079	(1.038)	235578	75.0000	73.6	
	87 2,3,4,6-Tetrachlorophenol	232	16.320	16.338	(1.056)	351735	75.0000	70.9	
	90 Fluorene	166	16.765	16.783	(1.085)	1430363	75.0000	73.3	
	89 Diethylphthalate	149	16.713	16.741	(1.082)	1391942	75.0000	71.5	
	91 4-Chlorophenyl-phenylether	204	16.848	16.855	(1.090)	683319	75.0000	73.7	
	93 O,O-diethyl-o-2-pyrazinylphos	107	16.879	16.907	(1.092)	253085	75.0000	71.2	
	92 5-Nitro-O-Toluidine	152	16.879	16.917	(1.092)	282160	75.0000	69.6(Q)	
	94 4-Nitroaniline	138	16.931	16.969	(1.096)	273471	75.0000	73.2	
	95 4,6-Dinitro-2-Methylphenol	198	17.003	17.042	(0.897)	239985	75.0000	76.4	
	96 N-Nitrosodiphenylamine	169	17.158	17.176	(0.906)	1131502	75.0000	75.6	
	97 N-Nitrosodiphenylamine/DPA	169	17.158	17.176	(0.906)	1131502	75.0000	75.6	
	98 1,2-Diphenylhydrazine	77	17.210	17.228	(0.908)	1469128	75.0000	77.0	
	99 Azobenzene	77	17.210	17.228	(0.908)	1461836	75.0000	76.8	
$	100 2,4,6-Tribromophenol	330	17.345	17.362	(1.123)	222971	75.0000	71.8	
	101 Sulfotepp	97	17.686	17.704	(0.933)	237874	75.0000	73.9	
	103 Diallate	86	17.904	17.921	(0.945)	509776	75.0000	73.2	
	105 4-Bromophenyl-phenylether	248	17.986	18.004	(0.949)	391156	75.0000	75.9	
	104 Phorate	75	17.904	17.932	(0.945)	969900	75.0000	74.2	
	102 1,3,5-Trinitrobenzene	213	17.904	17.952	(0.945)	80519	75.0000	67.5	
	106 Phenacetin	108	18.048	18.097	(0.952)	529415	75.0000	74.3	
	107 Hexachlorobenzene	284	18.079	18.097	(0.954)	458059	75.0000	75.6	
	108 Dimethoate	87	18.286	18.325	(0.965)	376856	75.0000	74.1	
	109 Atrazine	200	18.556	18.573	(0.979)	263238	75.0000	78.4	
	111 4-Aminobiphenyl	169	18.618	18.635	(0.983)	889736	75.0000	70.0	
	110 Pentachlorophenol	266	18.597	18.615	(0.981)	253562	75.0000	73.2	
	112 Pentachloronitrobenzene	237	18.618	18.635	(0.983)	150213	75.0000	71.9	
*	114 Phenanthrene-D10	188	18.949	18.967	(1.000)	1004778	40.0000		
	113 Pronamide	173	18.918	18.936	(0.998)	519940	75.0000	71.0	
	115 Phenanthrene	178	19.011	19.029	(1.003)	1683095	75.0000	73.3	
	116 Anthracene	178	19.125	19.153	(1.009)	1635707	75.0000	74.0	
	118 Disulfoton	88	19.156	19.163	(1.011)	699450	75.0000	71.2	
	117 Dinoseb	211	19.146	19.153	(1.010)	252251	75.0000	67.4	
	119 Carbazole	167	19.580	19.598	(1.033)	1394813	75.0000	72.0	
	120 Methyl Parathion	109	20.005	20.012	(1.056)	321304	75.0000	72.1	
	121 Di-n-butylphthalate	149	20.646	20.654	(1.090)	1844093	75.0000	68.0	
	122 4-Nitroquinoline-1-Oxide	190	20.874	20.902	(1.102)	92864	75.0000	70.2	
	123 Ethyl Parathion	291	20.988	20.995	(1.108)	97179	75.0000	69.3	
	124 Methapyrilene	97	20.977	20.995	(1.107)	229564	75.0000	68.8	
	125 Isodrin	193	21.464	21.471	(1.133)	216681	75.0000	71.4	
	126 Fluoranthene	202	21.816	21.834	(1.151)	1504115	75.0000	69.9	
	128 Pyrene	202	22.323	22.341	(0.885)	1501994	75.0000	71.5	
	127 Benzidine	184	22.261	22.268	(0.882)	294538	75.0000	84.5	
$	129 Terphenyl-D14	244	22.861	22.879	(0.906)	970760	75.0000	71.5	
	130 Aramite	185	23.151	23.158	(0.918)	87659	75.0000	69.7	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.223	23.231	(0.920)	233893	75.0000	72.4	
132	Chlorobenzilate	251	23.399	23.407	(0.927)	375275	75.0000	70.3	
134	3,3'-Dimethylbenzidine	212	24.020	24.028	(0.952)	296864	75.0000	75.2	
135	Butylbenzylphthalate	149	24.165	24.173	(0.958)	640451	75.0000	69.8	
136	Bis(2-ethylhexyl)adipate	129	24.528	24.535	(0.972)	560572	75.0000	68.6	
137	2-Acetylaminofluorene	181	24.610	24.628	(0.975)	361635	75.0000	80.1	
139	Benzo(a)anthracene	228	25.200	25.218	(0.999)	1077099	75.0000	73.5	
* 140	Chrysene-D12	240	25.231	25.239	(1.000)	632510	40.0000		
142	Chrysene	228	25.283	25.301	(1.002)	986462	75.0000	74.9	
141	3,3'-Dichlorobenzidine	252	25.262	25.270	(1.001)	327116	75.0000	78.2	
143	bis(2-Ethylhexyl)phthalate	149	25.666	25.674	(1.017)	868212	75.0000	68.9	
144	Di-n-octylphthalate	149	27.125	27.133	(0.957)	1385777	75.0000	65.9	
145	Benzo(b)fluoranthene	252	27.591	27.609	(0.973)	903331	75.0000	71.6	
146	7,12-Dimethylbenz(A)Anthracen	256	27.622	27.630	(0.974)	436533	75.0000	71.1	
147	Benzo(k)fluoranthene	252	27.664	27.671	(0.976)	955647	75.0000	73.4(H)	
148	Benzo(a)pyrene	252	28.233	28.251	(0.996)	827564	75.0000	75.4	
* 149	Perylene-D12	264	28.347	28.354	(1.000)	504436	40.0000		
150	3-Methylcholanthrene	268	28.968	28.986	(1.022)	375557	75.0000	75.8	
152	Dibenz(a,j)acridine	279	30.158	30.166	(1.064)	455523	75.0000	78.2	
153	Indeno(1,2,3-cd)pyrene	276	30.500	30.507	(1.076)	550338	75.0000	76.7	
154	Dibenzo(a,h)anthracene	278	30.572	30.590	(1.079)	562236	75.0000	78.3	
155	Benzo(g,h,i)perylene	276	31.090	31.097	(1.097)	584088	75.0000	76.5	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Katahdin Analytical Services 3000152

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Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Lab Smp Id: WG145667-6
Inj Date : 30-JUN-2014 13:06 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-6
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 13:06 Cal File: U6204.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.111	3.121	(0.274)	277484	100.000	97.3	
	3 Pyridine	79	3.587	3.607	(0.420)	1151746	100.000	102	
	2 N-Nitrosodimethylamine	42	3.566	3.586	(0.417)	426310	100.000	97.1	
	4 Ethyl Methacrylate	69	4.342	4.352	(0.508)	804247	100.000	99.5	
	5 2-Picoline	93	4.818	4.828	(0.564)	1076418	100.000	106(M)	M9
	6 N-Nitrosomethylethylamine	88	5.067	5.077	(0.593)	468807	100.000	105	
	7 Methyl Methanesulfonate	80	5.667	5.677	(0.663)	669332	100.000	100	
$	8 2-Fluorophenol	112	6.019	6.029	(0.704)	978553	100.000	100	
	9 N-Nitrosodiethylamine	102	6.402	6.412	(0.749)	455686	100.000	103	
	10 Ethyl Methanesulfonate	79	7.064	7.085	(0.827)	843596	100.000	102	
	11 Benzaldehyde	77	7.623	7.623	(0.892)	106749	100.000	91.3	
	14 Pentachloroethane	117	7.934	7.944	(0.929)	356070	100.000	97.4	
	12 Aniline	93	7.892	7.902	(0.924)	1610602	100.000	100	
	16 Bis(2-Chloroethyl)ether	93	8.079	8.089	(0.945)	984098	100.000	98.3	
$	13 Phenol-D6	99	7.954	7.964	(0.931)	1183078	100.000	99.2	
	15 Phenol	94	7.986	7.996	(0.935)	1177591	100.000	94.6	
	17 2-Chlorophenol	128	8.130	8.140	(0.952)	1002310	100.000	97.8	
	18 1,3-Dichlorobenzene	146	8.420	8.430	(0.985)	1089758	100.000	97.0	
*	19 1,4-Dichlorobenzene-D4	152	8.544	8.544	(1.000)	340982	40.0000		
	20 1,4-Dichlorobenzene	146	8.575	8.586	(1.004)	1103723	100.000	96.9	
	21 1,2-Dichlorobenzene	146	8.896	8.896	(1.041)	1040763	100.000	95.3	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)		REVIEW CODE
22	Benzyl alcohol	108	8.938	8.958	(1.046)	676115	100.000	100		
24	Bis(2-Chloroisopropyl)ether	45	9.248	9.248	(1.082)	1173032	100.000	96.9		
25	2,2'-Oxybis(1-chloropropane)	45	9.248	9.248	(1.082)	1173032	100.000	97.0		
23	2-Methylphenol	108	9.259	9.269	(1.084)	938922	100.000	99.0	(M)	M9
27	Acetophenone	105	9.466	9.476	(0.834)	1339265	100.000	96.6		
32	Hexachloroethane	117	9.621	9.621	(1.126)	425407	100.000	94.5		
26	N-Nitrosopyrrolidine	100	9.476	9.507	(1.109)	478190	100.000	99.8		
29	o-Toluidine	106	9.548	9.558	(1.117)	1212289	100.000	95.2		
28	N-Nitrosomorpholine	56	9.538	9.558	(1.116)	523767	100.000	97.4		
30	N-Nitroso-di-n-propylamine	70	9.569	9.589	(1.120)	705335	100.000	96.3		
31	3&4-Methylphenol	108	9.631	9.641	(1.127)	936512	100.000	96.6		
$ 33	Nitrobenzene-D5	82	9.766	9.786	(0.860)	1099494	100.000	97.4		
34	Nitrobenzene	77	9.817	9.828	(0.865)	1063288	100.000	96.8		
35	N-Nitrosopiperidine	114	10.159	10.169	(0.895)	466189	100.000	97.5		
36	Isophorone	82	10.397	10.407	(0.916)	2059462	100.000	96.2		
37	2-Nitrophenol	139	10.521	10.531	(0.927)	584981	100.000	97.8		
38	2,4-Dimethylphenol	107	10.790	10.800	(0.951)	1018940	100.000	95.4		
40	Bis(2-Chloroethoxy)methane	93	10.966	10.976	(0.966)	1443585	100.000	96.7		
39	O,O,O-Triethylphosphorothioat	198	10.946	10.956	(0.964)	451774	100.000	97.6		
41	2,4-Dichlorophenol	162	11.122	11.132	(0.980)	868792	100.000	93.8		
43	1,2,4-Trichlorobenzene	180	11.256	11.266	(0.992)	851642	100.000	93.2		
* 44	Naphthalene-D8	136	11.349	11.359	(1.000)	1418619	40.0000			
42	Benzoic acid	122	11.225	11.297	(0.989)	530539	100.000	110	(M)	M9
45	Naphthalene	128	11.401	11.411	(1.005)	2561015	100.000	93.1		
49	A,A-Dimethylphenethylamine	58	11.991	12.063	(1.057)	1594867	100.000	93.1	(M)	M9
48	Hexachloropropene	213	11.639	11.639	(1.026)	576164	100.000	90.2		
47	2,6-Dichlorophenol	162	11.629	11.618	(1.025)	739959	100.000	91.5		
46	4-Chloroaniline	127	11.618	11.628	(1.024)	1027104	100.000	90.7		
50	Hexachlorobutadiene	225	11.784	11.784	(1.038)	508834	100.000	92.3		
53	N-Nitroso-Di-N-Butylamine	84	12.509	12.519	(1.102)	701336	100.000	88.4		
52	Caprolactam	113	12.571	12.612	(1.108)	293606	100.000	96.8	(Q)	
51	p-Phenylenediamine	108	12.498	12.519	(1.101)	528201	100.000	98.9	(M)	M9
55	Isosafrole	162	12.923	12.933	(1.139)	735327	100.000	92.4		
56	2-Methylnaphthalene	142	13.036	13.046	(1.149)	1838963	100.000	91.9		
54	4-Chloro-3-Methylphenol	107	12.902	12.922	(1.137)	835621	100.000	95.3	(Q)	
57	1-Methylnaphthalene	142	13.254	13.264	(1.168)	1710191	100.000	91.6		
59	1,2,4,5-Tetrachlorobenzene	216	13.440	13.450	(0.869)	817405	100.000	93.6		
60	Hexachlorocyclopentadiene	237	13.461	13.471	(0.871)	590386	100.000	92.3		
61	2,4,6-Trichlorophenol	196	13.771	13.781	(0.891)	619085	100.000	94.4		
$ 63	2-Fluorobiphenyl	172	13.968	13.978	(0.904)	1950393	100.000	95.2		
62	2,4,5-Trichlorophenol	196	13.854	13.874	(0.896)	667378	100.000	96.2		
64	Safrole	104	14.144	14.154	(0.915)	317437	100.000	92.2		
65	2-Chloronaphthalene	162	14.144	14.154	(0.915)	2511636	100.000	95.4		
66	1,1'-Biphenyl	154	14.175	14.185	(0.917)	1755498	100.000	89.2		
67	1-Chloronaphthalene	162	14.206	14.216	(0.919)	1531295	100.000	88.7		
68	Diphenylether	170	14.444	14.444	(0.934)	1155560	100.000	95.0		
69	2-Nitroaniline	65	14.485	14.495	(0.937)	573633	100.000	98.3		
70	1,4-Naphthoquinone	158	14.589	14.599	(0.944)	446253	100.000	106	(M)	M9
71	1,4-Dinitrobenzene	75	14.806	14.827	(0.958)	348889	100.000	99.8		
75	Acenaphthylene	152	15.117	15.127	(0.978)	2486306	100.000	89.8		
73	Dimethyl Phthalate	163	15.034	15.054	(0.973)	1921031	100.000	91.9		
72	1,3-Dinitrobenzene	168	15.013	15.023	(0.971)	326631	100.000	97.9		
74	2,6-Dinitrotoluene	165	15.106	15.116	(0.977)	416679	100.000	89.2		
76	1,2-Dinitrobenzene	50	15.200	15.220	(0.983)	221636	100.000	93.0		

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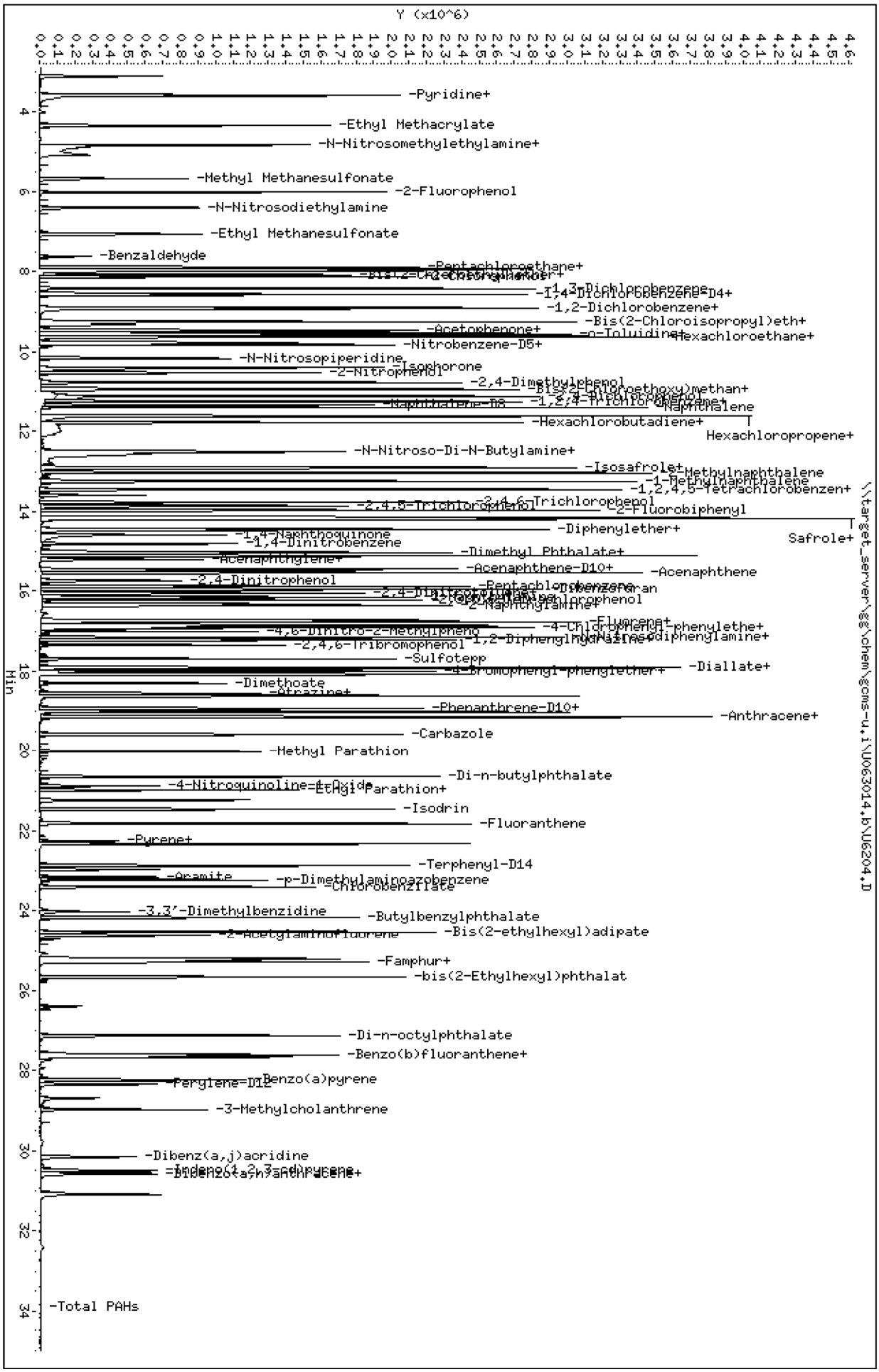
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 78	Acenaphthene-D10	164	15.458	15.458	(1.000)	761618	40.0000		
79	Acenaphthene	153	15.541	15.551	(1.005)	1549421	100.000	90.9	
77	3-Nitroaniline	138	15.489	15.510	(1.002)	476833	100.000	102	
80	2,4-Dinitrophenol	184	15.738	15.769	(1.018)	267261	100.000	102	
82	Dibenzofuran	168	15.965	15.976	(1.033)	2335402	100.000	93.8	
81	Pentachlorobenzene	250	15.883	15.893	(1.027)	741029	100.000	94.2	
85	1-Naphthylamine	143	16.162	16.172	(1.046)	1506501	100.000	92.0	
84	2,4-Dinitrotoluene	165	16.059	16.079	(1.039)	558292	100.000	94.0	
86	2,3,5,6-Tetrachlorophenol	232	16.224	16.234	(1.050)	497504	100.000	94.1	
88	2-Naphthylamine	143	16.369	16.390	(1.059)	1378662	100.000	89.2	
83	4-Nitrophenol	139	16.059	16.079	(1.039)	321474	100.000	96.8	
87	2,3,4,6-Tetrachlorophenol	232	16.328	16.338	(1.056)	482518	100.000	93.8	
90	Fluorene	166	16.773	16.783	(1.085)	1841512	100.000	91.0	
89	Diethylphthalate	149	16.731	16.741	(1.082)	1780171	100.000	88.2	
91	4-Chlorophenyl-phenylether	204	16.856	16.855	(1.090)	899451	100.000	93.5	
93	O,O-diethyl-o-2-pyrazinylphos	107	16.897	16.907	(1.093)	327761	100.000	88.9	
92	5-Nitro-O-Toluidine	152	16.897	16.917	(1.093)	382732	100.000	91.1	
94	4-Nitroaniline	138	16.949	16.969	(1.096)	367446	100.000	94.8	
95	4,6-Dinitro-2-Methylphenol	198	17.011	17.042	(0.897)	320887	100.000	100	
96	N-Nitrosodiphenylamine	169	17.166	17.176	(0.906)	1477596	100.000	97.1	
97	N-Nitrosodiphenylamine/DPA	169	17.166	17.176	(0.906)	1477596	100.000	97.1	
98	1,2-Diphenylhydrazine	77	17.218	17.228	(0.908)	1925058	100.000	99.3	
99	Azobenzene	77	17.218	17.228	(0.908)	1925058	100.000	99.4	
$ 100	2,4,6-Tribromophenol	330	17.352	17.362	(1.123)	301913	100.000	93.8	
101	Sulfotepp	97	17.694	17.704	(0.933)	303772	100.000	92.8	
103	Diallate	86	17.911	17.921	(0.945)	669365	100.000	94.5	
105	4-Bromophenyl-phenylether	248	17.994	18.004	(0.949)	522989	100.000	99.8	
104	Phorate	75	17.911	17.932	(0.945)	1281216	100.000	96.4	
102	1,3,5-Trinitrobenzene	213	17.932	17.952	(0.946)	114661	100.000	94.6(Q)	
106	Phenacetin	108	18.067	18.097	(0.953)	693999	100.000	95.8	
107	Hexachlorobenzene	284	18.087	18.097	(0.954)	581342	100.000	94.4	
108	Dimethoate	87	18.305	18.325	(0.966)	463996	100.000	100	
109	Atrazine	200	18.563	18.573	(0.979)	309228	100.000	99.7	
111	4-Aminobiphenyl	169	18.625	18.635	(0.983)	1149706	100.000	88.9	
110	Pentachlorophenol	266	18.605	18.615	(0.981)	336656	100.000	95.6	
112	Pentachloronitrobenzene	237	18.625	18.635	(0.983)	195294	100.000	91.9	
* 114	Phenanthrene-D10	188	18.957	18.967	(1.000)	1021620	40.0000		
113	Pronamide	173	18.936	18.936	(0.999)	679167	100.000	91.2	
115	Phenanthrene	178	19.019	19.029	(1.003)	2171173	100.000	93.0	
116	Anthracene	178	19.133	19.153	(1.009)	2074322	100.000	92.2	
118	Disulfoton	88	19.164	19.163	(1.011)	894045	100.000	89.6(Q)	
117	Dinoseb	211	19.153	19.153	(1.010)	348065	100.000	91.5	
119	Carbazole	167	19.588	19.598	(1.033)	1821360	100.000	92.5	
120	Methyl Parathion	109	20.012	20.012	(1.056)	403443	100.000	97.2	
121	Di-n-butylphthalate	149	20.654	20.654	(1.090)	2414118	100.000	87.6	
122	4-Nitroquinoline-1-Oxide	190	20.882	20.902	(1.102)	130188	100.000	98.4	
123	Ethyl Parathion	291	20.996	20.995	(1.108)	132413	100.000	92.8	
124	Methapyrilene	97	20.985	20.995	(1.107)	301337	100.000	88.8	
125	Isodrin	193	21.461	21.471	(1.132)	281070	100.000	91.1	
126	Fluoranthene	202	21.824	21.834	(1.151)	1957072	100.000	89.5	
128	Pyrene	202	22.331	22.341	(0.885)	2000202	100.000	98.6	
127	Benzidine	184	22.269	22.268	(0.883)	358706	100.000	107	
$ 129	Terphenyl-D14	244	22.869	22.879	(0.906)	1277446	100.000	97.5	
130	Aramite	185	23.159	23.158	(0.918)	113905	100.000	93.8	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
131	p-Dimethylaminoazobenzene	225	23.231	23.231	(0.921)	311404	100.000	99.9	
132	Chlorobenzilate	251	23.407	23.407	(0.928)	512881	100.000	99.4	
134	3,3'-Dimethylbenzidine	212	24.018	24.028	(0.952)	415884	100.000	101	
135	Butylbenzylphthalate	149	24.163	24.173	(0.958)	843379	100.000	95.3	
136	Bis(2-ethylhexyl)adipate	129	24.525	24.535	(0.972)	755295	100.000	95.7	
137	2-Acetylaminofluorene	181	24.618	24.628	(0.976)	457640	100.000	105	
139	Benzo(a)anthracene	228	25.208	25.218	(0.999)	1376854	100.000	97.2	
* 140	Chrysene-D12	240	25.229	25.239	(1.000)	610736	40.0000		
142	Chrysene	228	25.291	25.301	(1.002)	1187464	100.000	93.3	
141	3,3'-Dichlorobenzidine	252	25.260	25.270	(1.001)	408101	100.000	101	
143	bis(2-Ethylhexyl)phthalate	149	25.664	25.674	(1.017)	1142377	100.000	93.9	
144	Di-n-octylphthalate	149	27.123	27.133	(0.957)	1750729	100.000	94.1	
145	Benzo(b)fluoranthene	252	27.599	27.609	(0.974)	1103182	100.000	98.8	
146	7,12-Dimethylbenz(A)Anthracen	256	27.620	27.630	(0.974)	528505	100.000	97.3	
147	Benzo(k)fluoranthene	252	27.661	27.671	(0.976)	1116326	100.000	96.9(H)	
148	Benzo(a)pyrene	252	28.241	28.251	(0.996)	958227	100.000	98.7	
* 149	Perylene-D12	264	28.344	28.354	(1.000)	446568	40.0000		
150	3-Methylcholanthrene	268	28.976	28.986	(1.022)	440177	100.000	100	
152	Dibenz(a,j)acridine	279	30.155	30.166	(1.064)	537027	100.000	104	
153	Indeno(1,2,3-cd)pyrene	276	30.497	30.507	(1.076)	643541	100.000	101	
154	Dibenzo(a,h)anthracene	278	30.580	30.590	(1.079)	652586	100.000	103	
155	Benzo(g,h,i)perylene	276	31.087	31.097	(1.097)	679468	100.000	100	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Date : 30-JUN-2014 13:06
Client ID:
Sample Info: WG145667-6
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-N-Nitrosomethylethylamine+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-o-Toluidine+
-Hexachloroethane+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Naphthalene-D8
-1,2,4-Trichlorobenzene
-Naphthalene
-Hexachlorobutadiene+
Hexachloropropene+
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-2-Methylnaphthalene
-1-Methylnaphthalene
-1,2,4,5-Tetrachlorobenzen+
-2,4,6-Trichlorophenol
-2,4,5-Trichlorophenol
-2-Fluorobiphenyl
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Dimethyl Phthalate+
-Acenaphthylene+
-Acenaphthene-D10+
-Acenaphthene
-2,4-Dinitrophenol
-Pentachlorobenzene
-2-Naphthylamine
-Fluorene+
-4,6-Dinitro-2-Methylpheno
-4-Chlorophenyl-phenylethe+
-2,4,6-Tribromophenol
-Sulfotepp
-4-Bromophenyl-phenylether+
-Diallate+
-Dimethoate
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Famphur+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-D12
-Benzo(a)pyrene
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Dibenz(a,h)anthracene+
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Report Date: 03-Jul-2014 16:20

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Lab Smp Id: WG145667-7
Inj Date : 30-JUN-2014 13:49 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-7
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 13:49 Cal File: U6205.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.121	3.121	(0.275)	336950	125.000	113	
	3 Pyridine	79	3.607	3.607	(0.422)	1386289	125.000	116	
	2 N-Nitrosodimethylamine	42	3.586	3.586	(0.420)	556556	125.000	120	
	4 Ethyl Methacrylate	69	4.352	4.352	(0.509)	992313	125.000	116	
	5 2-Picoline	93	4.828	4.828	(0.565)	1369186	125.000	127(AM)	M9
	6 N-Nitrosomethylethylamine	88	5.077	5.077	(0.594)	612888	125.000	130(A)	
	7 Methyl Methanesulfonate	80	5.677	5.677	(0.664)	888046	125.000	126(A)	
$	8 2-Fluorophenol	112	6.029	6.029	(0.706)	1218381	125.000	119	
	9 N-Nitrosodiethylamine	102	6.412	6.412	(0.750)	580451	125.000	124	
	10 Ethyl Methanesulfonate	79	7.085	7.085	(0.829)	1092124	125.000	125	
	11 Benzaldehyde	77	7.623	7.623	(0.892)	130080	125.000	106	
	14 Pentachloroethane	117	7.944	7.944	(0.930)	444880	125.000	115	
	12 Aniline	93	7.902	7.902	(0.925)	2054700	125.000	121	
	16 Bis(2-Chloroethyl)ether	93	8.089	8.089	(0.947)	1234513	125.000	117	
$	13 Phenol-D6	99	7.964	7.964	(0.932)	1532513	125.000	122	
	15 Phenol	94	7.996	7.996	(0.936)	1574473	125.000	120	
	17 2-Chlorophenol	128	8.140	8.140	(0.953)	1264369	125.000	117	
	18 1,3-Dichlorobenzene	146	8.430	8.430	(0.987)	1328251	125.000	112	
*	19 1,4-Dichlorobenzene-D4	152	8.544	8.544	(1.000)	359541	40.0000		
	20 1,4-Dichlorobenzene	146	8.586	8.586	(1.005)	1354419	125.000	113	
	21 1,2-Dichlorobenzene	146	8.896	8.896	(1.041)	1324671	125.000	115	

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Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.958	8.958	(1.048)	899693	125.000	126(A)	
	24 Bis(2-Chloroisopropyl)ether	45	9.248	9.248	(1.082)	1503239	125.000	118	
	25 2,2'-Oxybis(1-chloropropane)	45	9.248	9.248	(1.082)	1503239	125.000	118	
	23 2-Methylphenol	108	9.269	9.269	(1.085)	1243570	125.000	124(M)	M9
	27 Acetophenone	105	9.476	9.476	(0.834)	1736829	125.000	120	
	32 Hexachloroethane	117	9.621	9.621	(1.126)	518926	125.000	109	
	26 N-Nitrosopyrrolidine	100	9.507	9.507	(1.113)	612584	125.000	121	
	29 o-Toluidine	106	9.558	9.558	(1.119)	1579278	125.000	118	
	28 N-Nitrosomorpholine	56	9.558	9.558	(1.119)	667897	125.000	118	
	30 N-Nitroso-di-n-propylamine	70	9.589	9.589	(1.122)	904223	125.000	117	
	31 3&4-Methylphenol	108	9.641	9.641	(1.128)	1216747	125.000	119	
$	33 Nitrobenzene-D5	82	9.786	9.786	(0.862)	1435921	125.000	122	
	34 Nitrobenzene	77	9.828	9.828	(0.865)	1341801	125.000	117	
	35 N-Nitrosopiperidine	114	10.169	10.169	(0.895)	617509	125.000	124	
	36 Isophorone	82	10.407	10.407	(0.916)	2734550	125.000	122(M)	M9
	37 2-Nitrophenol	139	10.531	10.531	(0.927)	742345	125.000	119	
	38 2,4-Dimethylphenol	107	10.800	10.800	(0.951)	1297203	125.000	116	
	40 Bis(2-Chloroethoxy)methane	93	10.976	10.976	(0.966)	1822793	125.000	117	
	39 O,O,O-Triethylphosphorothioat	198	10.956	10.956	(0.964)	580738	125.000	120	
	41 2,4-Dichlorophenol	162	11.132	11.132	(0.980)	1086374	125.000	112	
	43 1,2,4-Trichlorobenzene	180	11.266	11.266	(0.992)	1078196	125.000	113	
*	44 Naphthalene-D8	136	11.359	11.359	(1.000)	1480838	40.0000		
	42 Benzoic acid	122	11.297	11.297	(0.995)	652035	125.000	130(AM)	M9
	45 Naphthalene	128	11.411	11.411	(1.005)	3153352	125.000	110	
	49 A,A-Dimethylphenethylamine	58	12.063	12.063	(1.062)	1992819	125.000	111(M)	M9
	48 Hexachloropropene	213	11.639	11.639	(1.025)	695470	125.000	104	
	47 2,6-Dichlorophenol	162	11.618	11.618	(1.023)	905298	125.000	107	
	46 4-Chloroaniline	127	11.628	11.628	(1.024)	1248337	125.000	106	
	50 Hexachlorobutadiene	225	11.784	11.784	(1.037)	634850	125.000	110	
	53 N-Nitroso-Di-N-Butylamine	84	12.519	12.519	(1.102)	1079837	125.000	130(AMH)	M9
	52 Caprolactam	113	12.612	12.612	(1.110)	394740	125.000	125(QM)	M9
	51 p-Phenylenediamine	108	12.519	12.519	(1.102)	620407	125.000	122(M)	M9
	55 Isosafrole	162	12.933	12.933	(1.138)	913222	125.000	110	
	56 2-Methylnaphthalene	142	13.046	13.046	(1.149)	2375248	125.000	114	
	54 4-Chloro-3-Methylphenol	107	12.922	12.922	(1.138)	1012272	125.000	111	
	57 1-Methylnaphthalene	142	13.264	13.264	(1.168)	2187601	125.000	112	
	59 1,2,4,5-Tetrachlorobenzene	216	13.450	13.450	(0.870)	1010137	125.000	110	
	60 Hexachlorocyclopentadiene	237	13.471	13.471	(0.871)	729782	125.000	109	
	61 2,4,6-Trichlorophenol	196	13.781	13.781	(0.892)	805358	125.000	117	
$	63 2-Fluorobiphenyl	172	13.978	13.978	(0.904)	2441228	125.000	114	
	62 2,4,5-Trichlorophenol	196	13.874	13.874	(0.898)	884935	125.000	122	
	64 Safrole	104	14.154	14.154	(0.916)	394249	125.000	109(Q)	
	65 2-Chloronaphthalene	162	14.154	14.154	(0.916)	3278202	125.000	119	
	66 1,1'-Biphenyl	154	14.185	14.185	(0.918)	2119569	125.000	103	
	67 1-Chloronaphthalene	162	14.216	14.216	(0.920)	1863406	125.000	103	
	68 Diphenylether	170	14.444	14.444	(0.934)	1464349	125.000	115	
	69 2-Nitroaniline	65	14.495	14.495	(0.938)	739026	125.000	121	
	70 1,4-Naphthoquinone	158	14.599	14.599	(0.944)	526142	125.000	123(M)	M9
	71 1,4-Dinitrobenzene	75	14.827	14.827	(0.959)	469053	125.000	128(A)	
	75 Acenaphthylene	152	15.127	15.127	(0.979)	3118458	125.000	108	
	73 Dimethyl Phthalate	163	15.054	15.054	(0.974)	2447618	125.000	112	
	72 1,3-Dinitrobenzene	168	15.023	15.023	(0.972)	421555	125.000	120	
	74 2,6-Dinitrotoluene	165	15.116	15.116	(0.978)	557712	125.000	114	
	76 1,2-Dinitrobenzene	50	15.220	15.220	(0.985)	294613	125.000	118	

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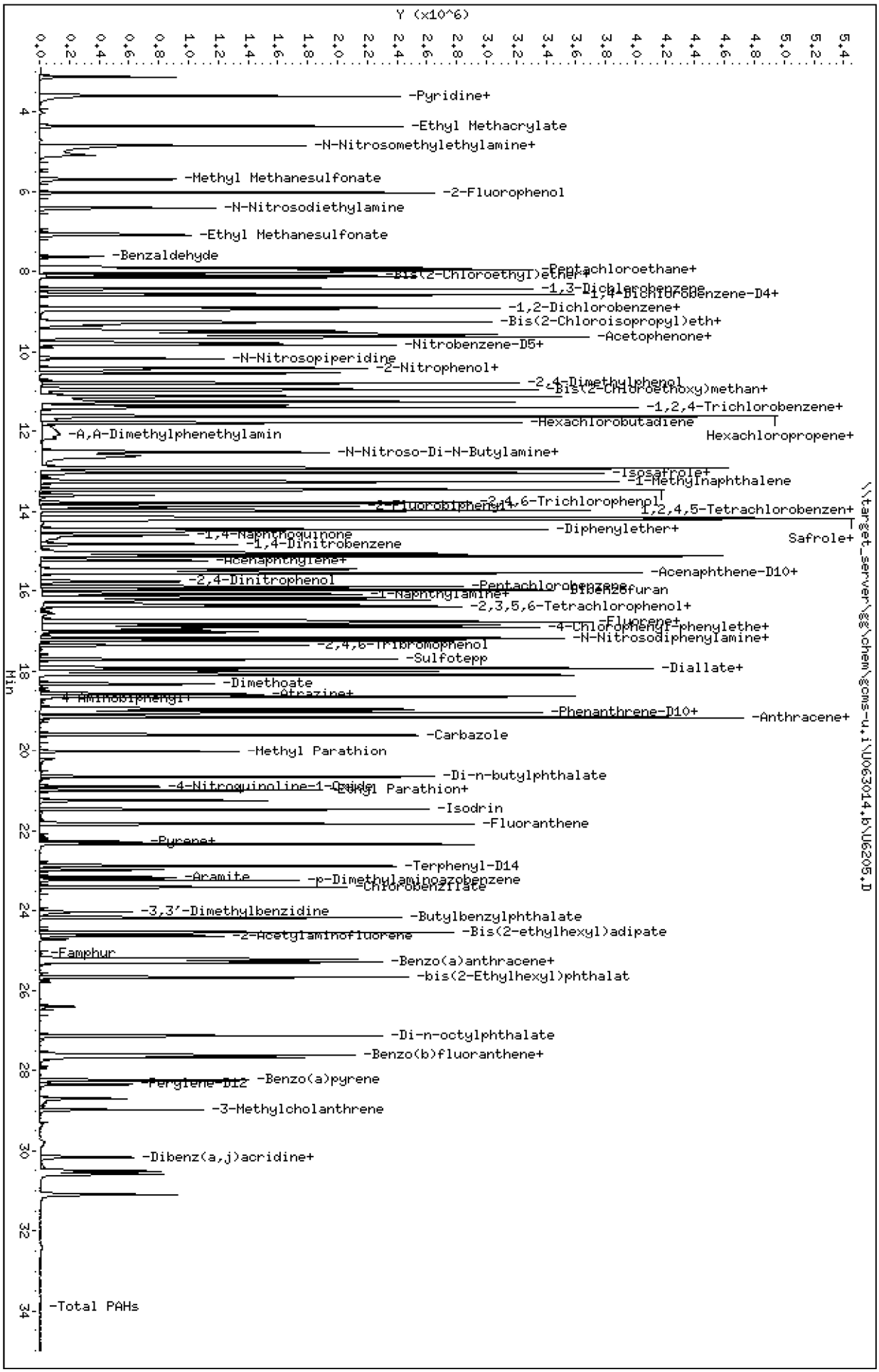
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	15.458	15.458	(1.000)	798029	40.0000		
	79 Acenaphthene	153	15.551	15.551	(1.006)	2016877	125.000	113	
	77 3-Nitroaniline	138	15.510	15.510	(1.003)	644012	125.000	131(A)	
	80 2,4-Dinitrophenol	184	15.769	15.769	(1.020)	363627	125.000	133(A)	
	82 Dibenzofuran	168	15.976	15.976	(1.033)	2948270	125.000	113	
	81 Pentachlorobenzene	250	15.893	15.893	(1.028)	945392	125.000	115	
	85 1-Naphthylamine	143	16.172	16.172	(1.046)	2016349	125.000	118	
	84 2,4-Dinitrotoluene	165	16.079	16.079	(1.040)	736201	125.000	118	
	86 2,3,5,6-Tetrachlorophenol	232	16.234	16.234	(1.050)	632286	125.000	114	
	88 2-Naphthylamine	143	16.390	16.390	(1.060)	1851462	125.000	114	
	83 4-Nitrophenol	139	16.079	16.079	(1.040)	415699	125.000	119	
	87 2,3,4,6-Tetrachlorophenol	232	16.338	16.338	(1.057)	641170	125.000	119	
	90 Fluorene	166	16.783	16.783	(1.086)	2312843	125.000	109	
	89 Diethylphthalate	149	16.741	16.741	(1.083)	2259248	125.000	107	
	91 4-Chlorophenyl-phenylether	204	16.855	16.855	(1.090)	1145381	125.000	114	
	93 O,O-diethyl-o-2-pyrazinylphos	107	16.907	16.907	(1.094)	419777	125.000	109	
	92 5-Nitro-O-Toluidine	152	16.917	16.917	(1.094)	492386	125.000	112	
	94 4-Nitroaniline	138	16.969	16.969	(1.098)	503309	125.000	124(Q)	
	95 4,6-Dinitro-2-Methylphenol	198	17.042	17.042	(0.899)	425180	125.000	128(A)	
	96 N-Nitrosodiphenylamine	169	17.176	17.176	(0.906)	1920919	125.000	122	
	97 N-Nitrosodiphenylamine/DPA	169	17.176	17.176	(0.906)	1920919	125.000	122	
	98 1,2-Diphenylhydrazine	77	17.228	17.228	(0.908)	2497034	125.000	124	
	99 Azobenzene	77	17.228	17.228	(0.908)	2497034	125.000	124	
$	100 2,4,6-Tribromophenol	330	17.362	17.362	(1.123)	392791	125.000	116	
	101 Sulfotepp	97	17.704	17.704	(0.933)	388486	125.000	114	
	103 Diallate	86	17.921	17.921	(0.945)	843437	125.000	115	
	105 4-Bromophenyl-phenylether	248	18.004	18.004	(0.949)	657797	125.000	121	
	104 Phorate	75	17.932	17.932	(0.945)	1510058	125.000	110	
	102 1,3,5-Trinitrobenzene	213	17.952	17.952	(0.947)	157670	125.000	125(AQ)	
	106 Phenacetin	108	18.097	18.097	(0.954)	867514	125.000	115	
	107 Hexachlorobenzene	284	18.097	18.097	(0.954)	735054	125.000	115	
	108 Dimethoate	87	18.325	18.325	(0.966)	550676	125.000	124	
	109 Atrazine	200	18.573	18.573	(0.979)	363082	125.000	123	
	111 4-Aminobiphenyl	169	18.635	18.635	(0.983)	1423807	125.000	106	
	110 Pentachlorophenol	266	18.615	18.615	(0.981)	436070	125.000	119	
	112 Pentachloronitrobenzene	237	18.635	18.635	(0.983)	249145	125.000	113	
*	114 Phenanthrene-D10	188	18.967	18.967	(1.000)	1059970	40.0000		
	113 Pronamide	173	18.936	18.936	(0.998)	868393	125.000	112	
	115 Phenanthrene	178	19.029	19.029	(1.003)	2811345	125.000	116	
	116 Anthracene	178	19.153	19.153	(1.010)	2617125	125.000	112	
	118 Disulfoton	88	19.163	19.163	(1.010)	1128273	125.000	109(Q)	
	119 Carbazole	167	19.598	19.598	(1.033)	2435544	125.000	119	
	120 Methyl Parathion	109	20.012	20.012	(1.055)	501533	125.000	127(A)	
	121 Di-n-butylphthalate	149	20.654	20.654	(1.089)	3137909	125.000	110	
	122 4-Nitroquinoline-1-Oxide	190	20.902	20.902	(1.102)	169149	125.000	126(A)	
	123 Ethyl Parathion	291	20.995	20.995	(1.107)	172596	125.000	117	
	124 Methapyrilene	97	20.995	20.995	(1.107)	383874	125.000	109	
	125 Isodrin	193	21.471	21.471	(1.132)	354090	125.000	111	
	126 Fluoranthene	202	21.834	21.834	(1.151)	2510168	125.000	110	
	128 Pyrene	202	22.341	22.341	(0.885)	2567153	125.000	121	
	127 Benzidine	184	22.268	22.268	(0.882)	489486	125.000	139(A)	
$	129 Terphenyl-D14	244	22.879	22.879	(0.907)	1662407	125.000	121	
	130 Aramite	185	23.158	23.158	(0.918)	141288	125.000	111	
	131 p-Dimethylaminoazobenzene	225	23.231	23.231	(0.920)	398359	125.000	122	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Report Date: 03-Jul-2014 16:20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
132	Chlorobenzilate	251	23.407	23.407	(0.927)	639475	125.000	118	
134	3,3'-Dimethylbenzidine	212	24.028	24.028	(0.952)	575191	125.000	124	
135	Butylbenzylphthalate	149	24.173	24.173	(0.958)	1088037	125.000	117	
136	Bis(2-ethylhexyl)adipate	129	24.535	24.535	(0.972)	977437	125.000	118	
137	2-Acetylaminofluorene	181	24.628	24.628	(0.976)	597392	125.000	131(A)	
139	Benzo(a)anthracene	228	25.218	25.218	(0.999)	1818330	125.000	123	
* 140	Chrysene-D12	240	25.239	25.239	(1.000)	639137	40.0000		
142	Chrysene	228	25.301	25.301	(1.002)	1541530	125.000	116	
141	3,3'-Dichlorobenzidine	252	25.270	25.270	(1.001)	541236	125.000	128(A)	
143	bis(2-Ethylhexyl)phthalate	149	25.674	25.674	(1.017)	1484049	125.000	117	
144	Di-n-octylphthalate	149	27.133	27.133	(0.957)	2327734	125.000	123	
145	Benzo(b)fluoranthene	252	27.609	27.609	(0.974)	1391781	125.000	122	
146	7,12-Dimethylbenz(A)Anthracen	256	27.630	27.630	(0.974)	663516	125.000	120	
147	Benzo(k)fluoranthene	252	27.671	27.671	(0.976)	1410309	125.000	120(H)	
148	Benzo(a)pyrene	252	28.251	28.251	(0.996)	1209168	125.000	122	
* 149	Perylene-D12	264	28.354	28.354	(1.000)	455283	40.0000		
150	3-Methylcholanthrene	268	28.986	28.986	(1.022)	547702	125.000	122	
152	Dibenz(a,j)acridine	279	30.166	30.166	(1.064)	655358	125.000	125	
153	Indeno(1,2,3-cd)pyrene	276	30.507	30.507	(1.076)	795304	125.000	123	
154	Dibenzo(a,h)anthracene	278	30.590	30.590	(1.079)	821500	125.000	127(A)	
155	Benzo(g,h,i)perylene	276	31.097	31.097	(1.097)	821574	125.000	119	

QC Flag Legend

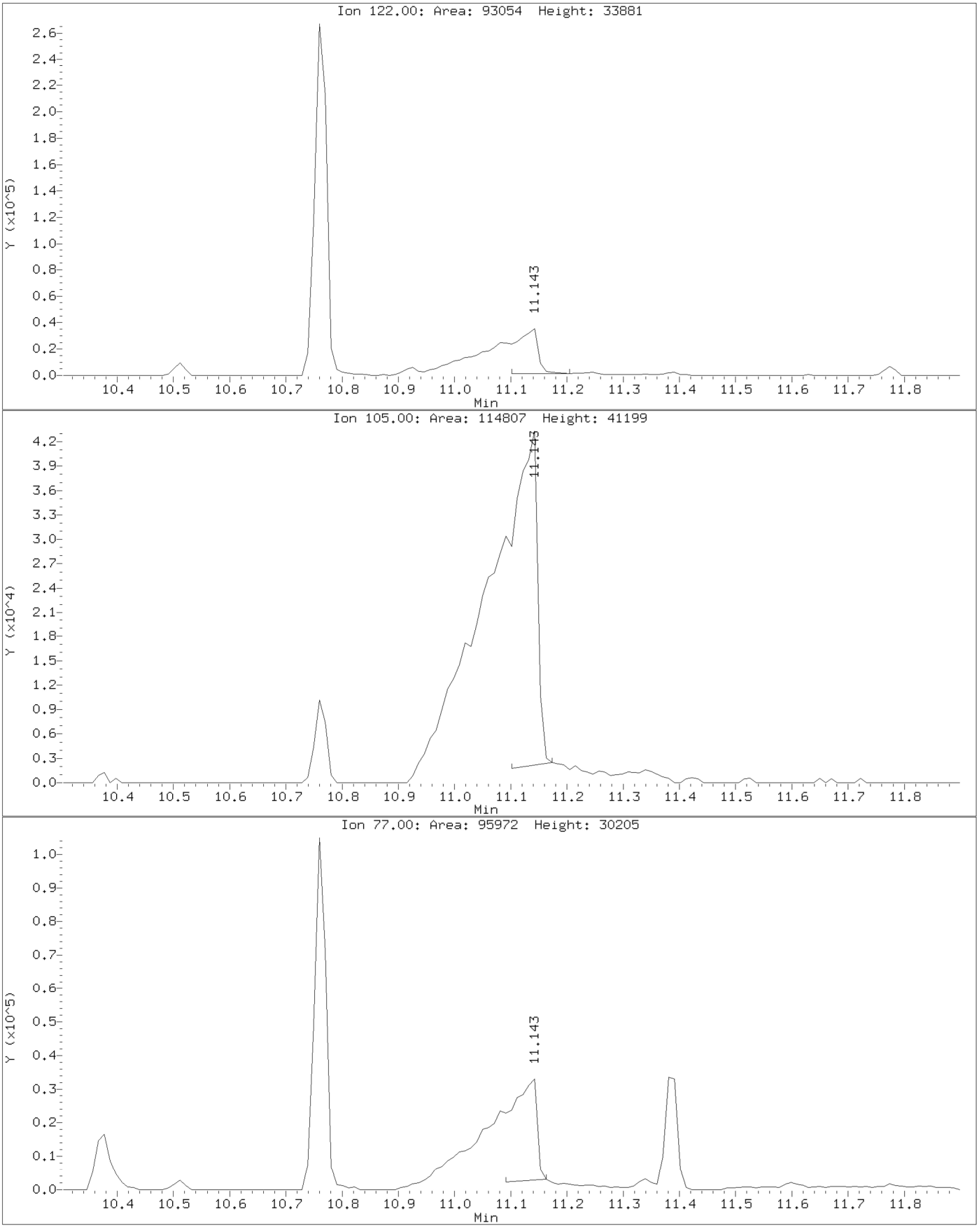
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.


Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Date : 30-JUN-2014 13:49
Client ID:
Sample Info: WG145667-7
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Y (x10^6)
Min
-Pyridine+
-Ethyl Methacrylate
-N-Nitrosomethylethylamine+
-Methyl Methanesulfonate
-2-Fluorophenol
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Pentachloroethane+
-Bis(2-Chloroethyl)ether+
-1,3-Dichlorobenzene
1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-Bis(2-Chloroisopropyl)eth+
-Acetophenone+
-Nitrobenzene-D5+
-N-Nitrosopiperidine
-2-Nitrophenol+
-2,4-Dimethylphenol
-Bis(2-Chloroethoxy)methan+
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
Hexachloropropene+
-A,A-Dimethylphenethylamin
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-1-Methylnaphthalene
-2,4,6-Trichlorophenol
-2-Fluorobiphenyl+
1,2,4,5-Tetrachlorobenzen+
-Diphenylether+
Safrole+
-1,4-Naphthoquinone
-1,4-Dinitrobenzene
-Acenaphthylene+
-Acenaphthene-D10+
-2,4-Dinitrophenol
-Pentachlorobenzene
Dibenzofuran
-1-Naphthylamine+
-2,3,5,6-Tetrachlorophenol+
Fluorene+
-4-Chlorophenyl-phenylethe+
-N-Nitrosodiphenylamine+
-2,4,6-Tribromophenol
-Sulfotepp
-Diallate+
-Dimethoate
4-Aminobiphenyl+
-Atrazine+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Pyrene+
-Terphenyl-D14
-Aramite
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-2-Acetylaminofluorene
-Bis(2-ethylhexyl)adipate
-Famphur
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Perylene-D12
-Benzo(a)pyrene
-3-Methylcholanthrene
-Dibenz(a,j)acridine+
-Total PAHs

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Injection Date: 30-JUN-2014 10:09
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

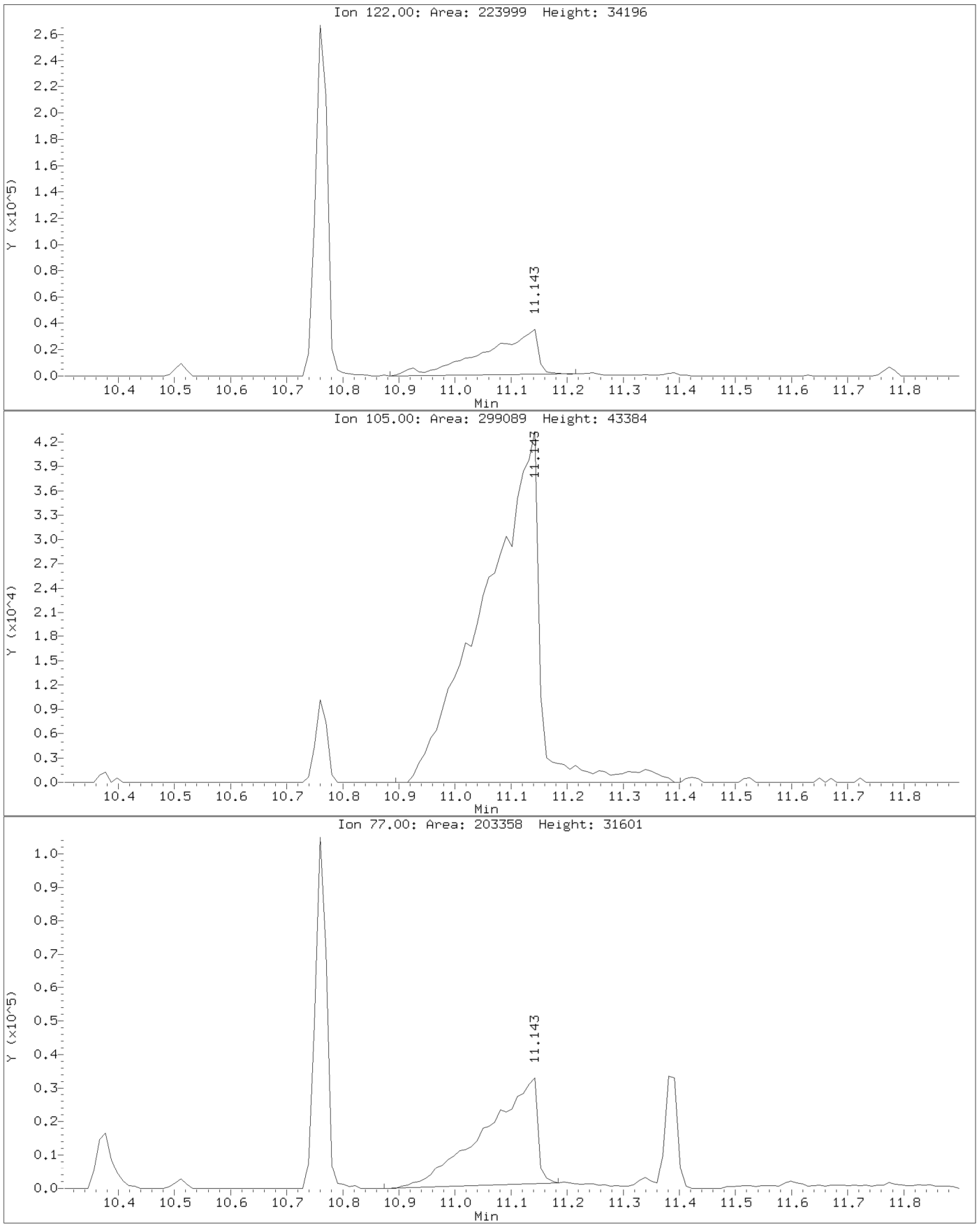
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Injection Date: 30-JUN-2014 10:09
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

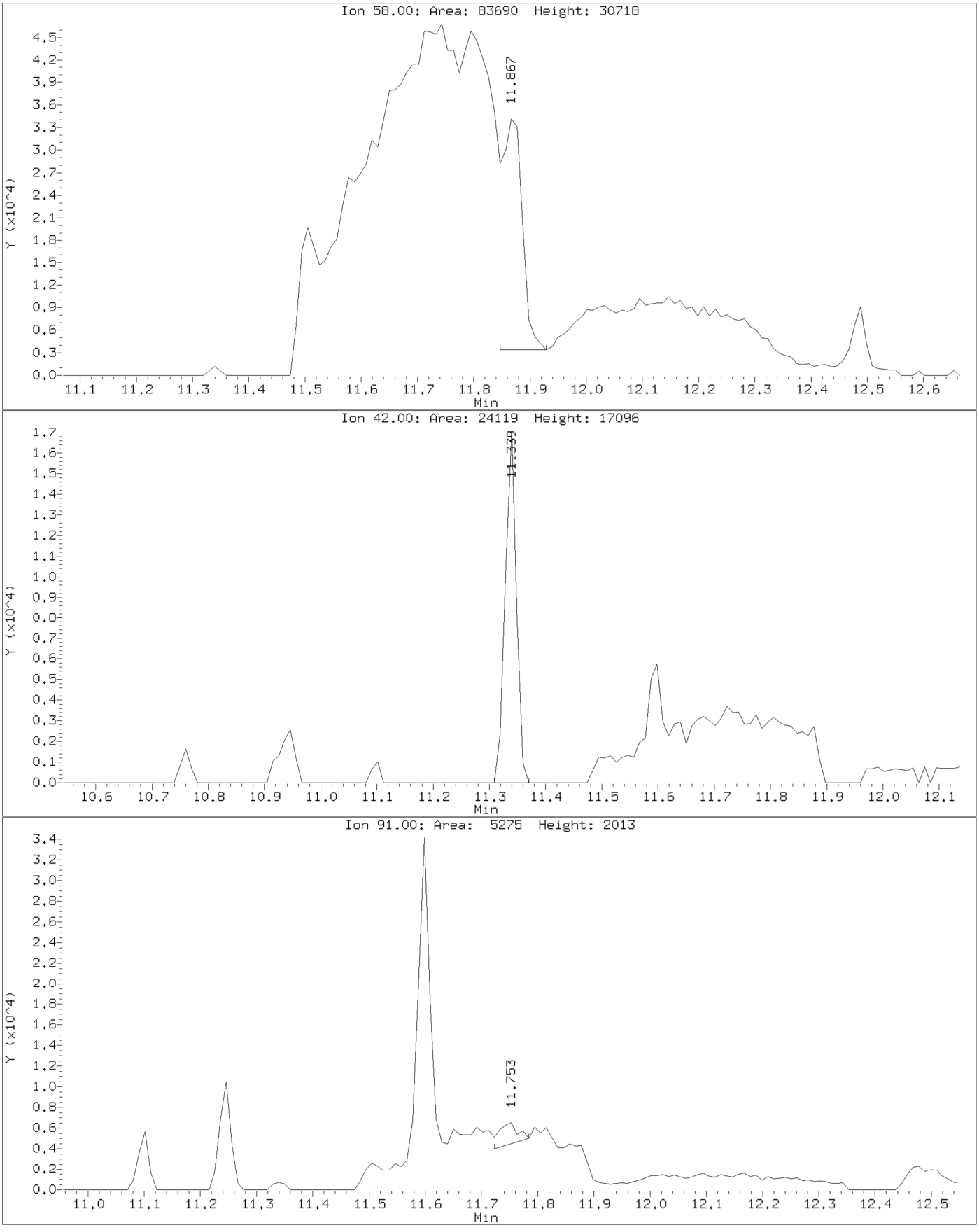
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6200.D
Injection Date: 30-JUN-2014 10:09
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

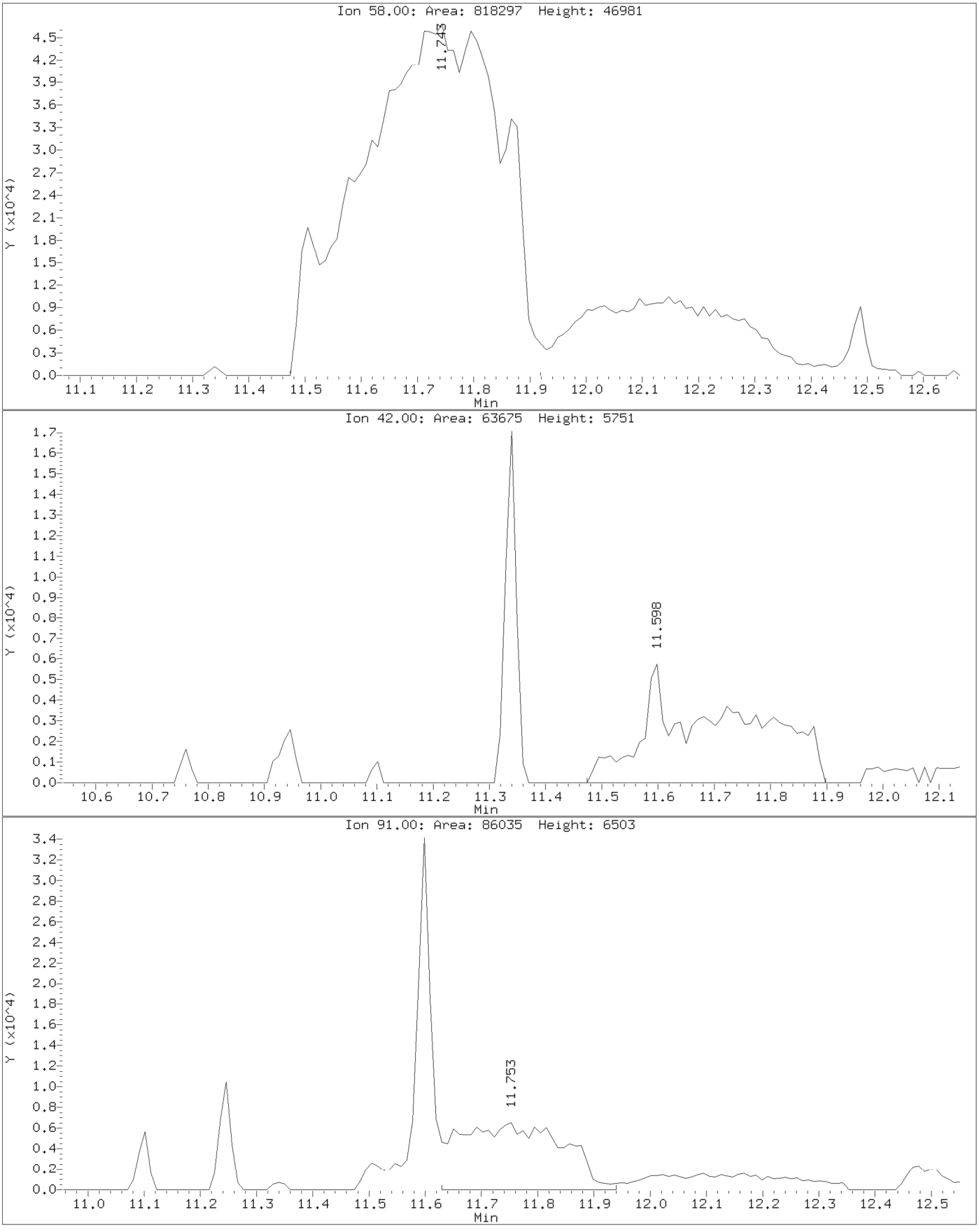
BEFORE MANUAL INTEGRATION



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Injection Date: 30-JUN-2014 10:09
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

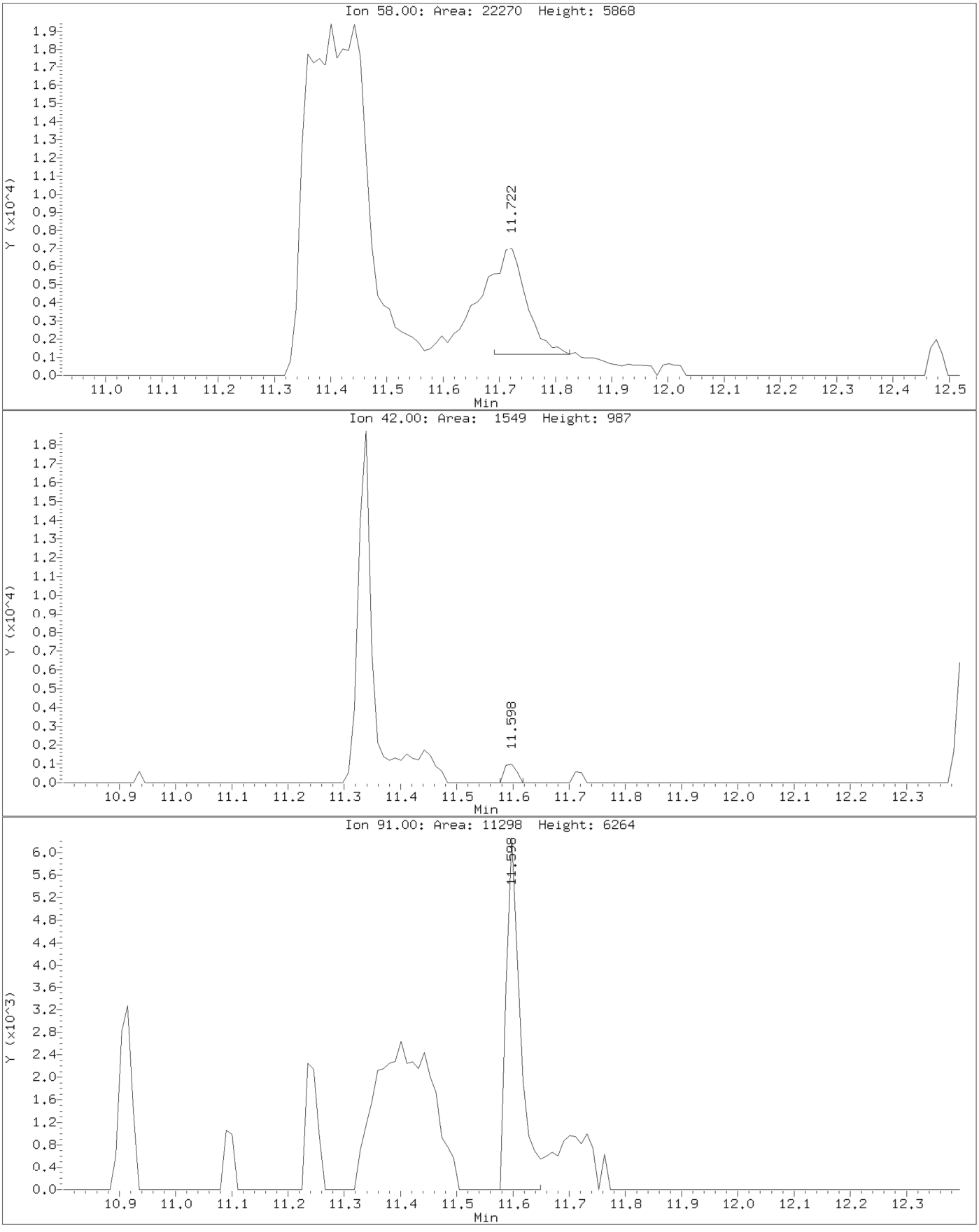
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Injection Date: 30-JUN-2014 10:56
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

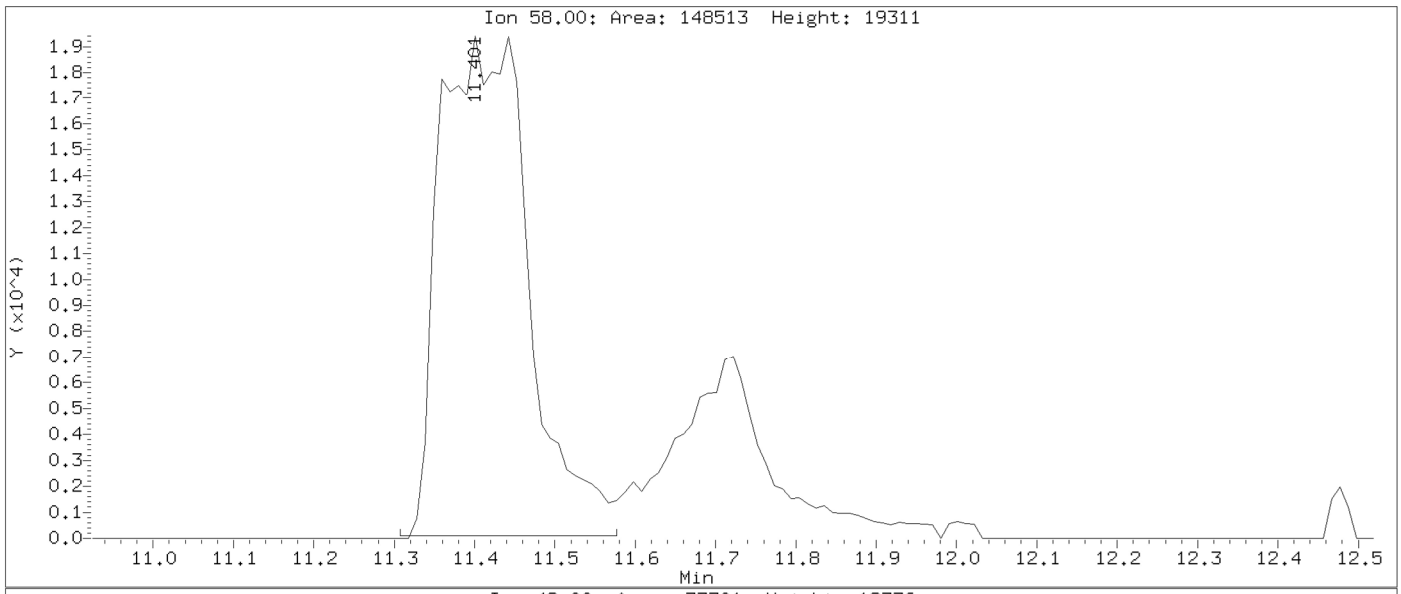
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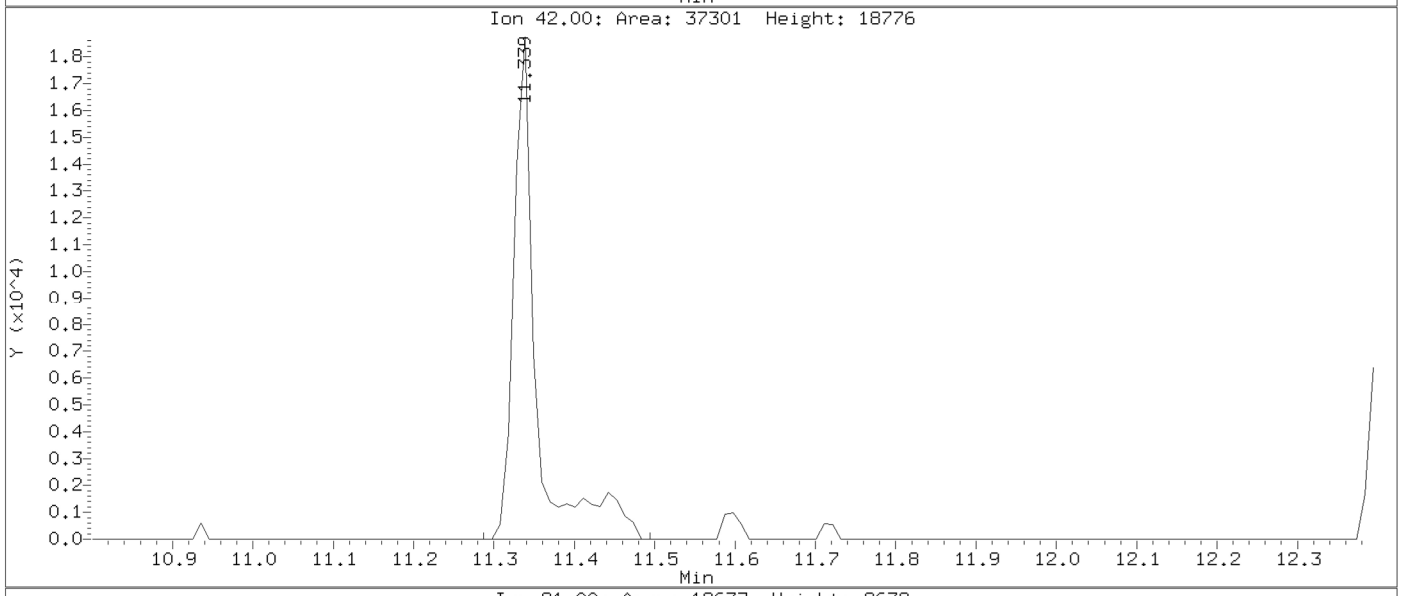


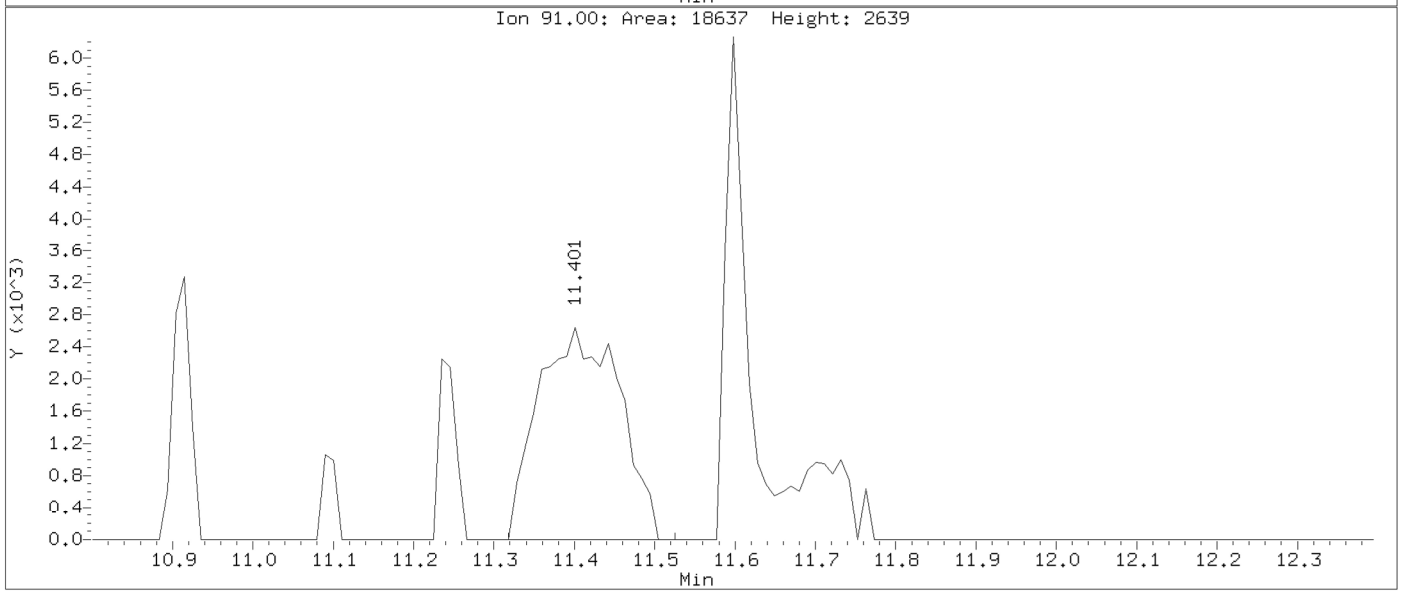
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Injection Date: 30-JUN-2014 10:56
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

AFTER MANUAL INTEGRATION



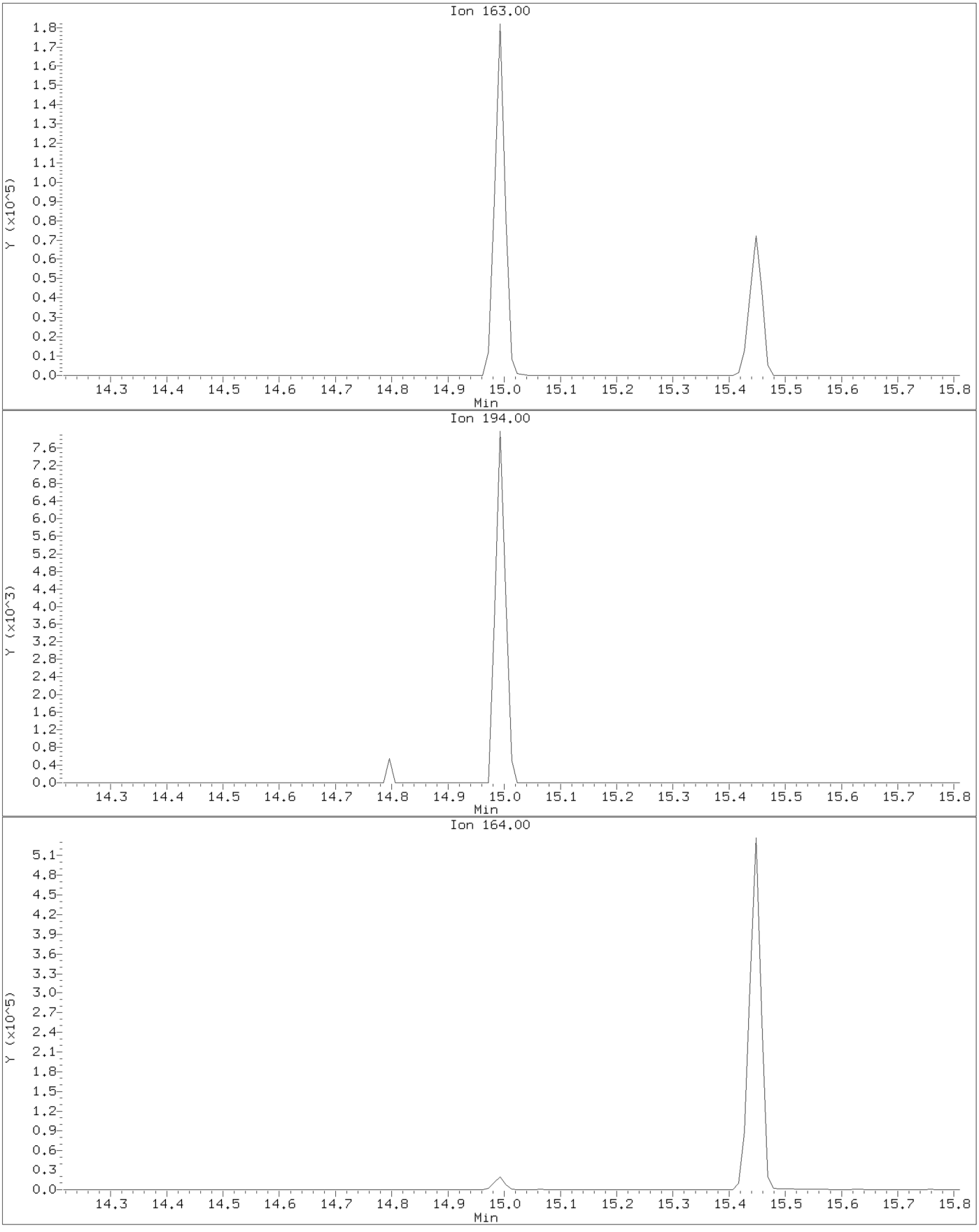




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Injection Date: 30-JUN-2014 10:56
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

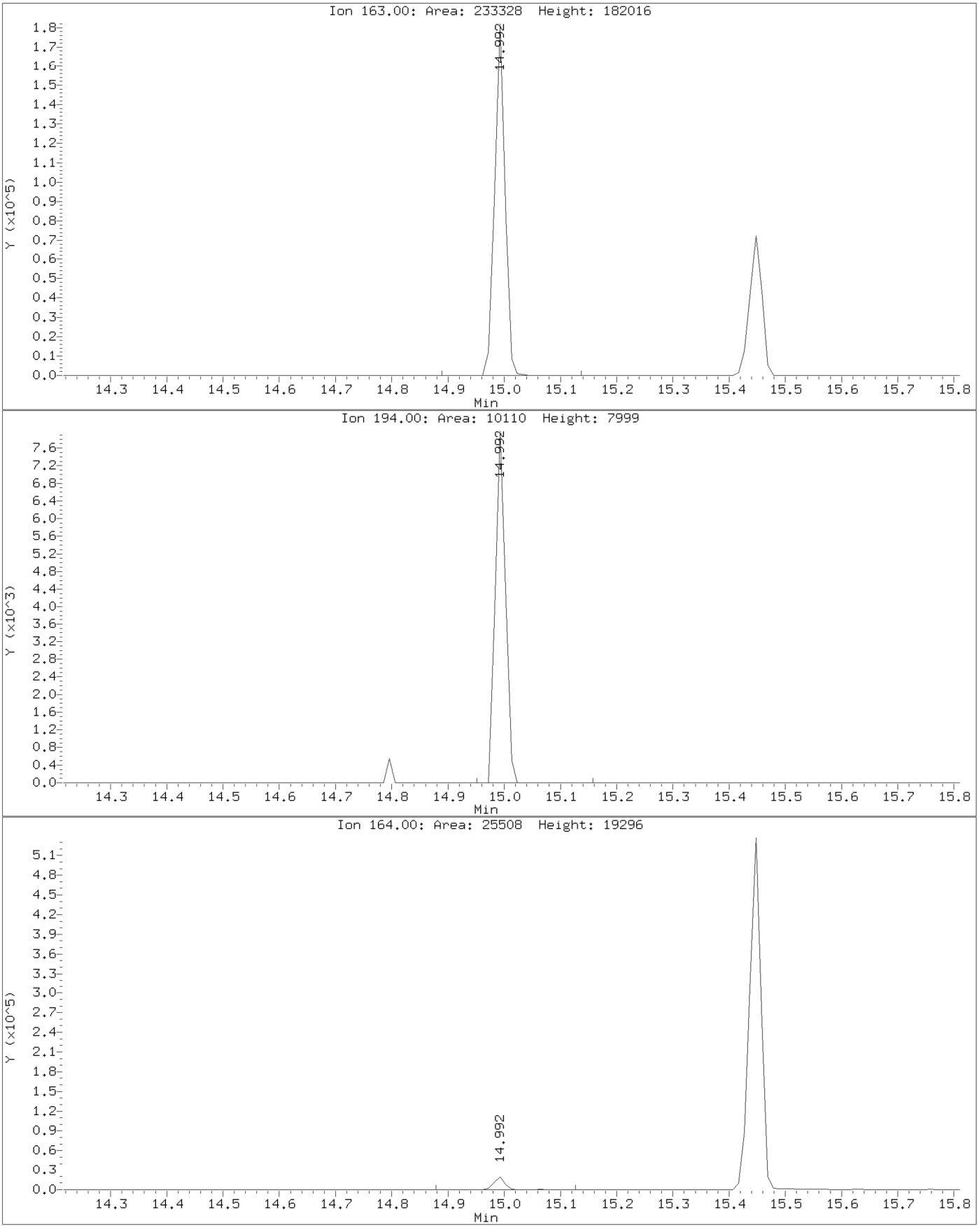
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6201.D
Injection Date: 30-JUN-2014 10:56
Instrument: gcms-u.i
Client Sample ID:

Compound: Dimethyl Phthalate
CAS Number: 131-11-3

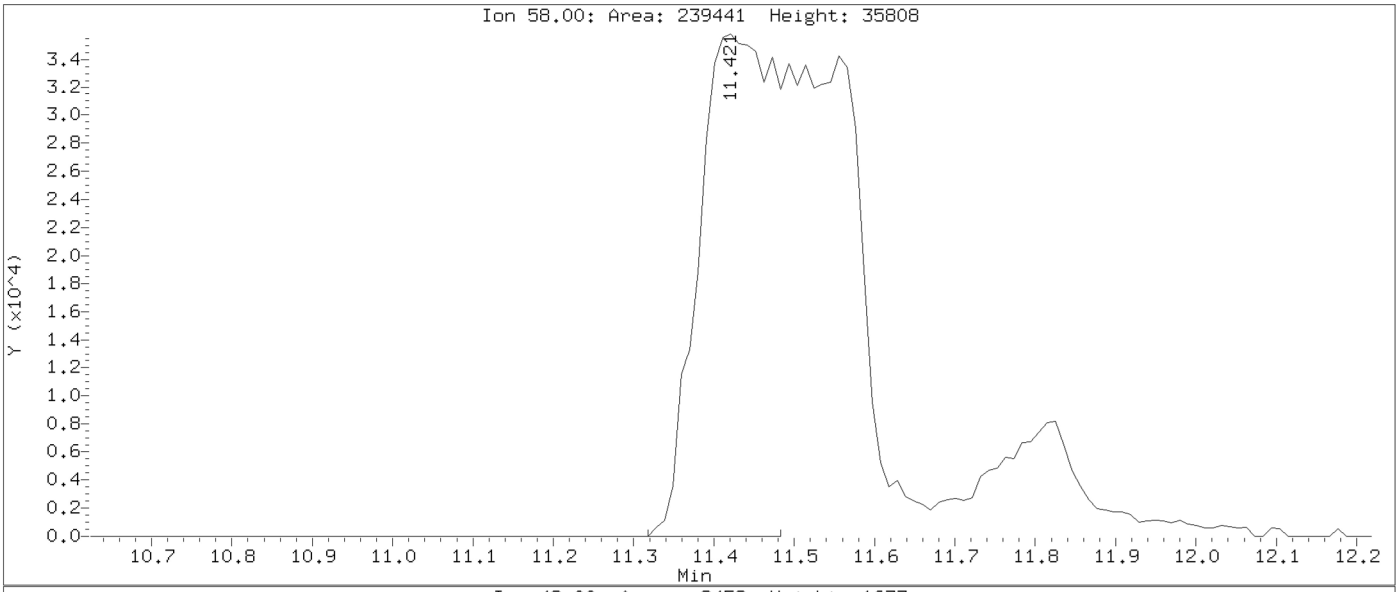
AFTER MANUAL INTEGRATION

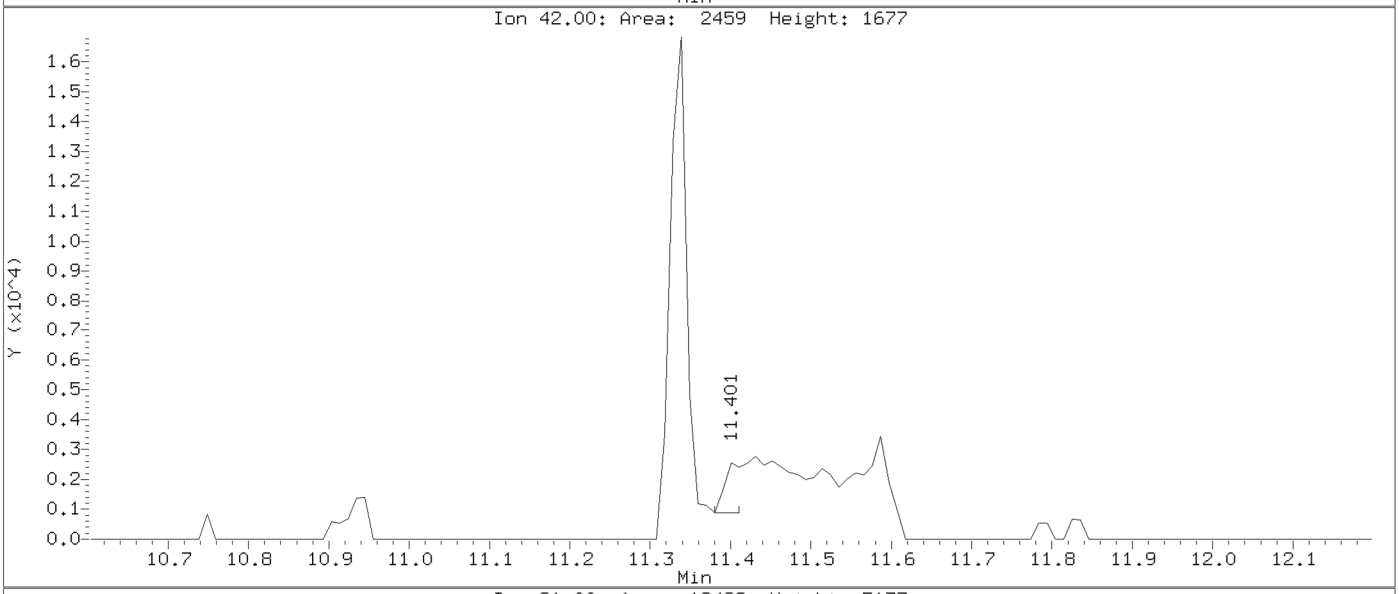


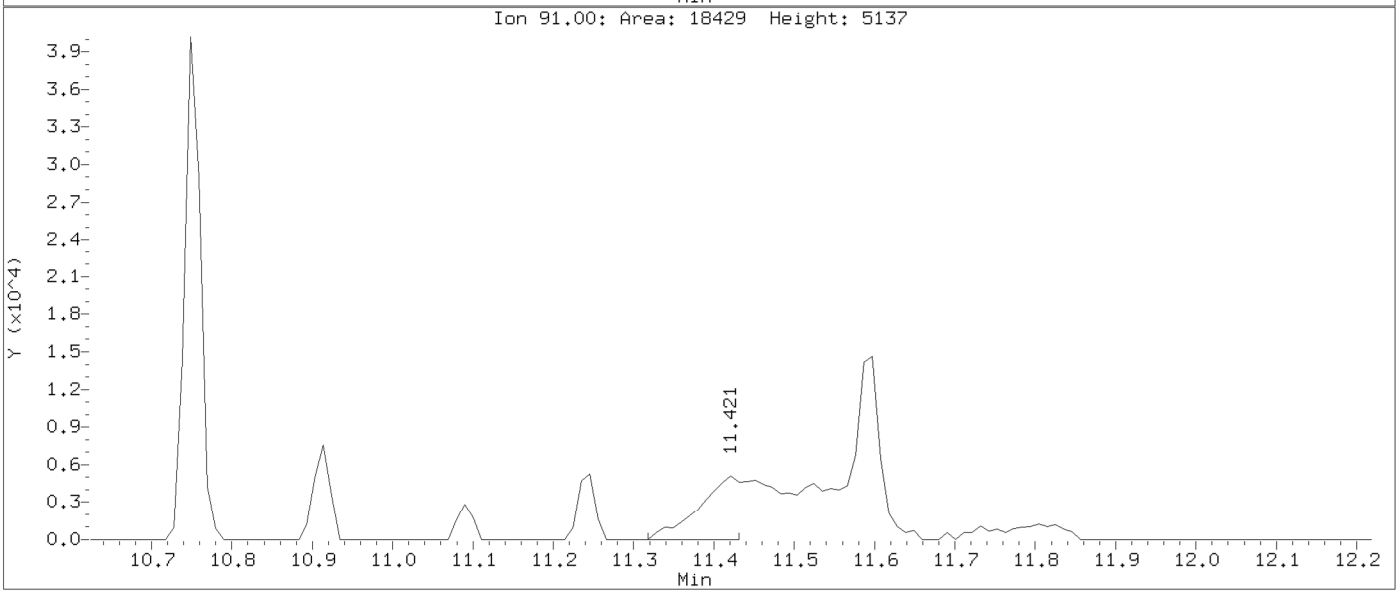
Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Injection Date: 30-JUN-2014 11:40
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

BEFORE MANUAL INTEGRATION



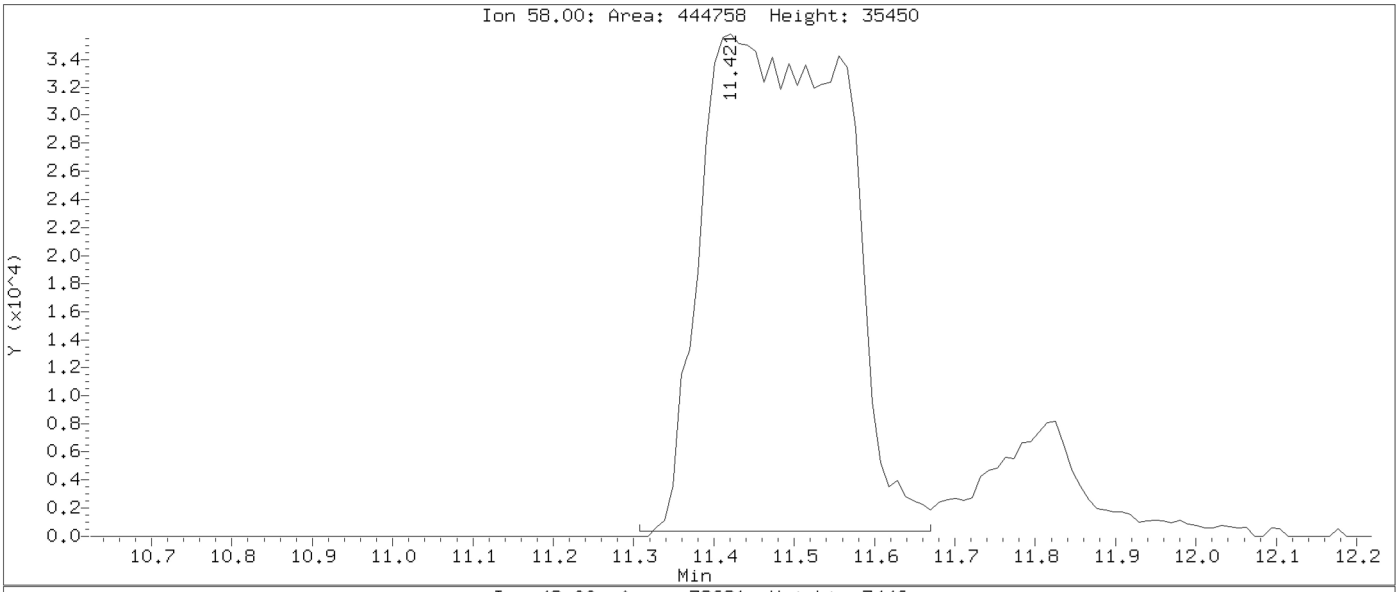


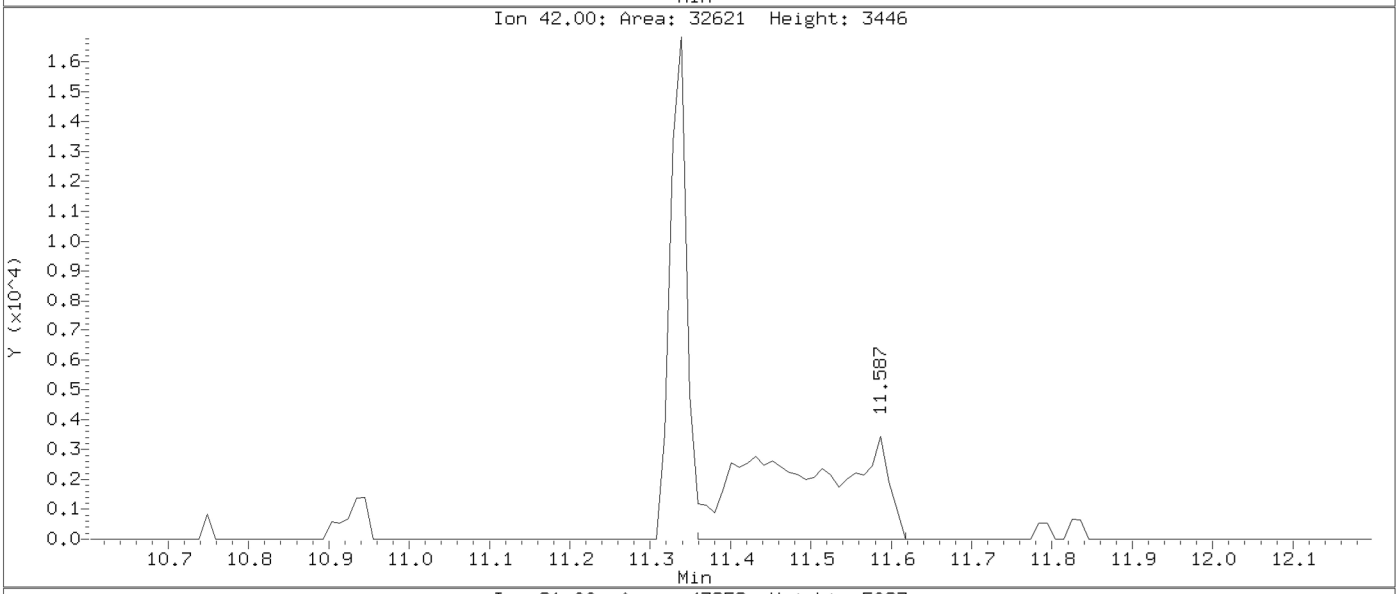


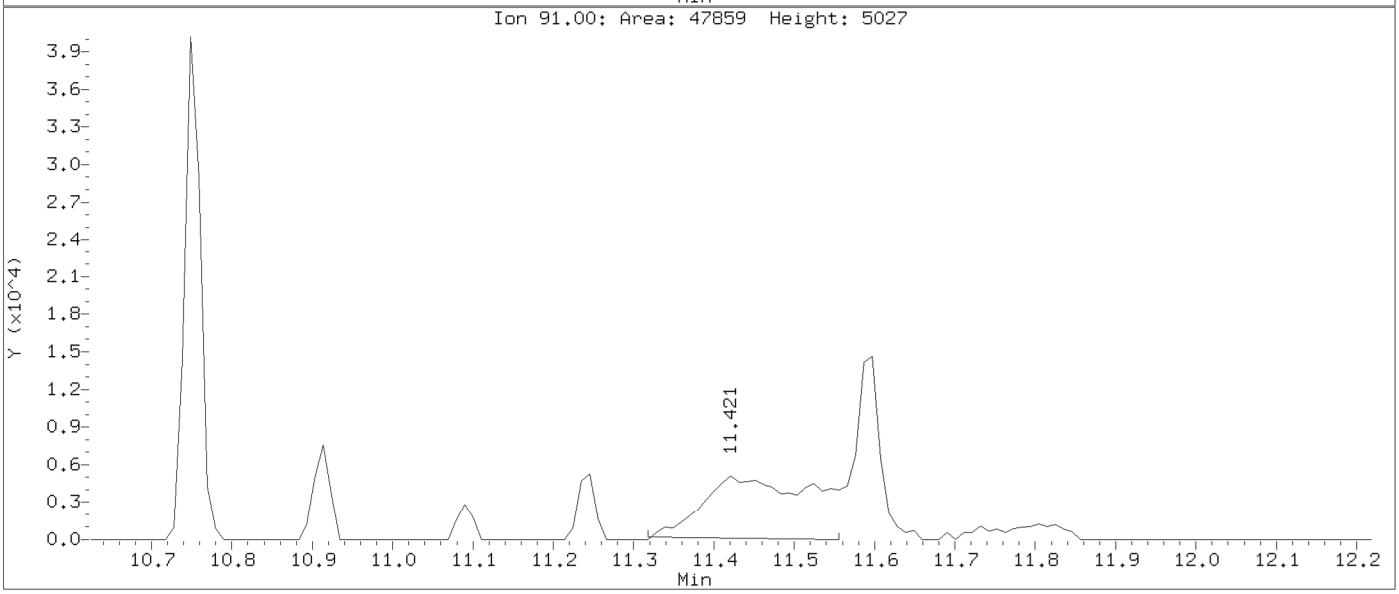
Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6202.D
Injection Date: 30-JUN-2014 11:40
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

AFTER MANUAL INTEGRATION



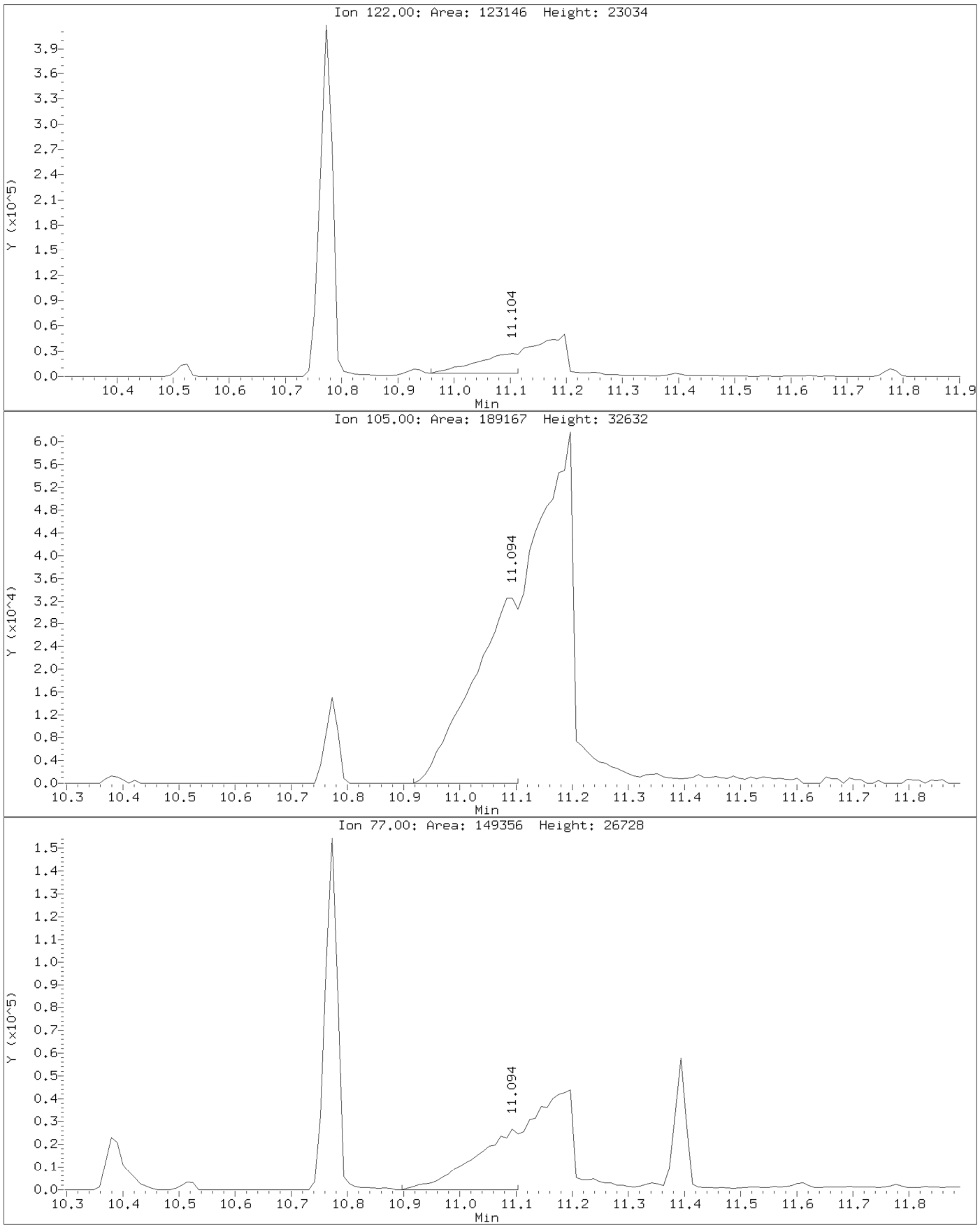




Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Injection Date: 30-JUN-2014 12:23
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

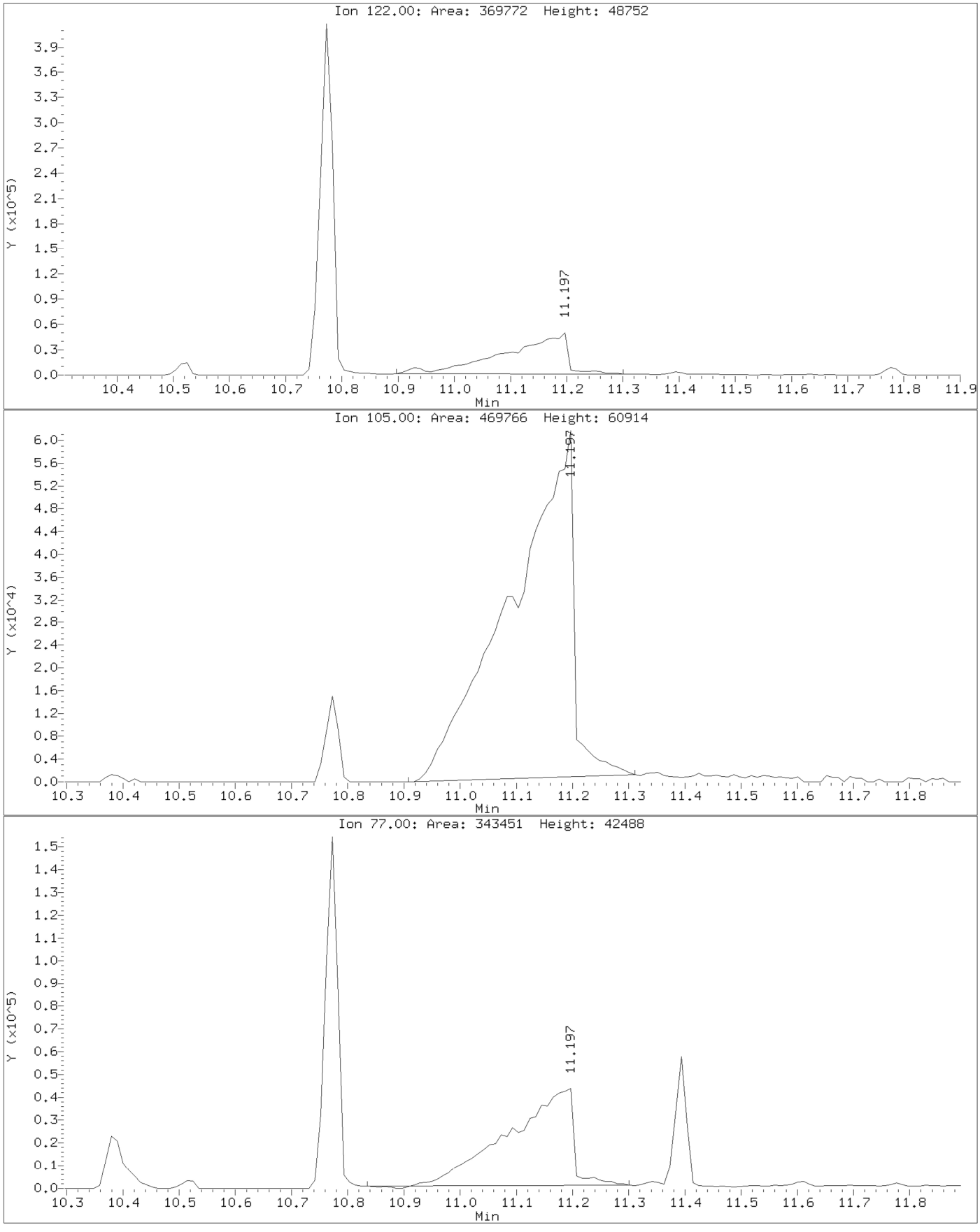
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6203.D
Injection Date: 30-JUN-2014 12:23
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

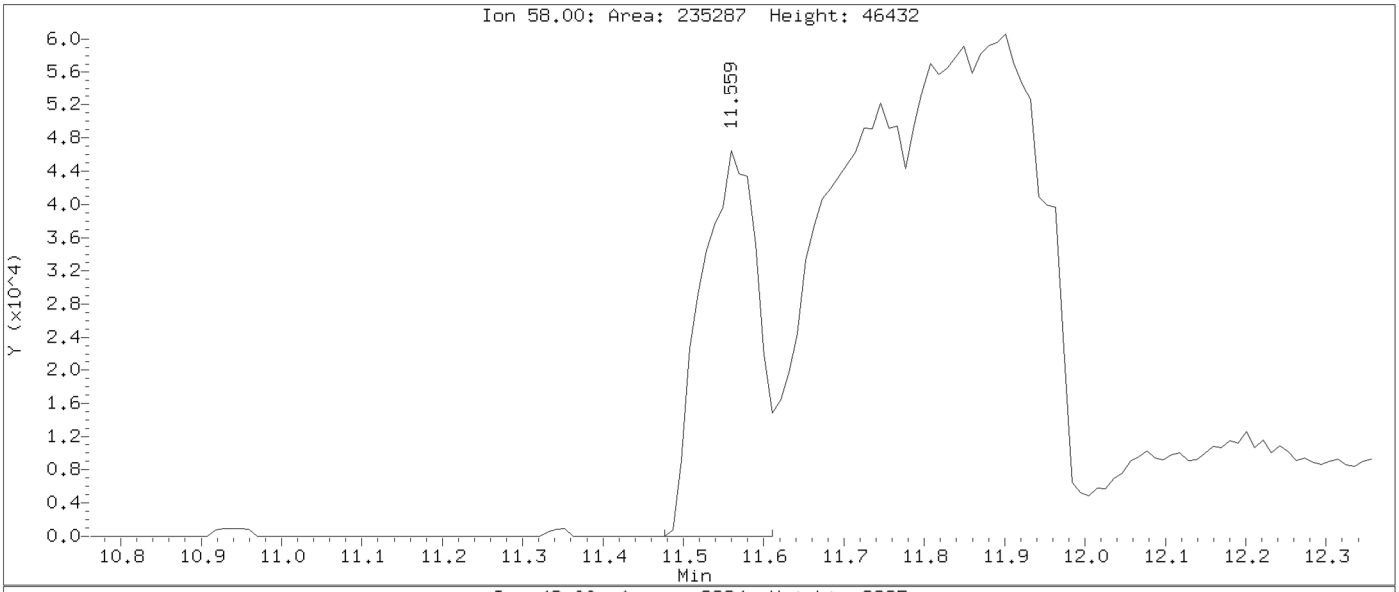
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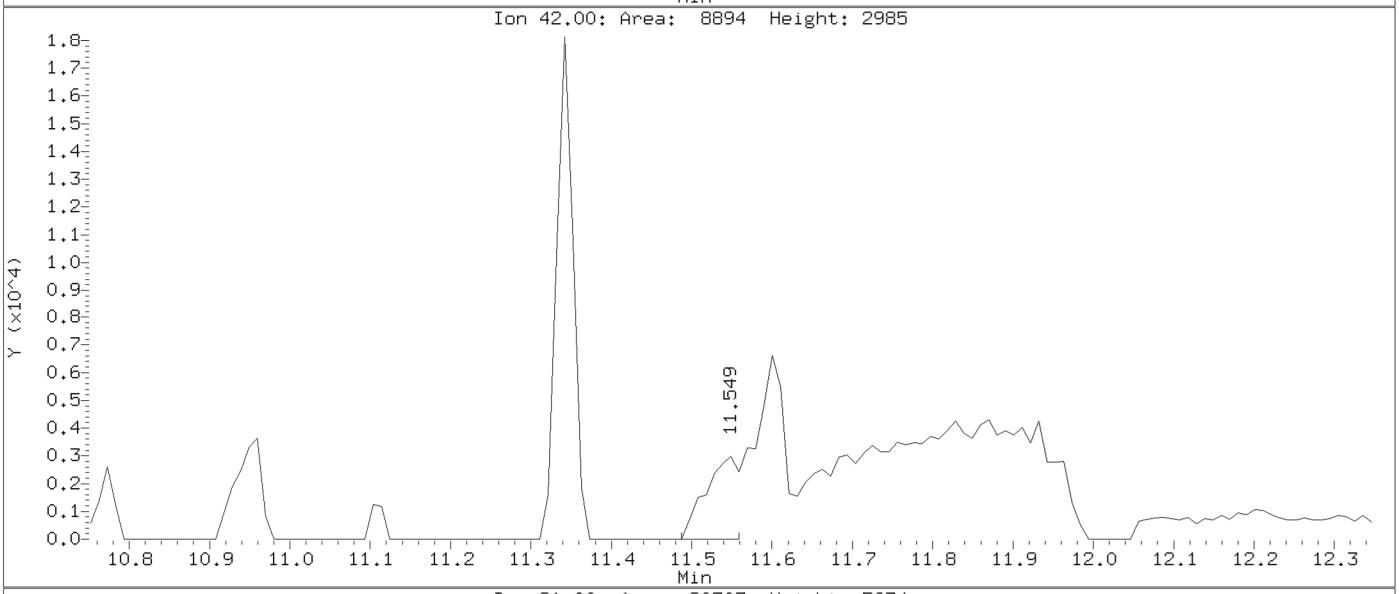


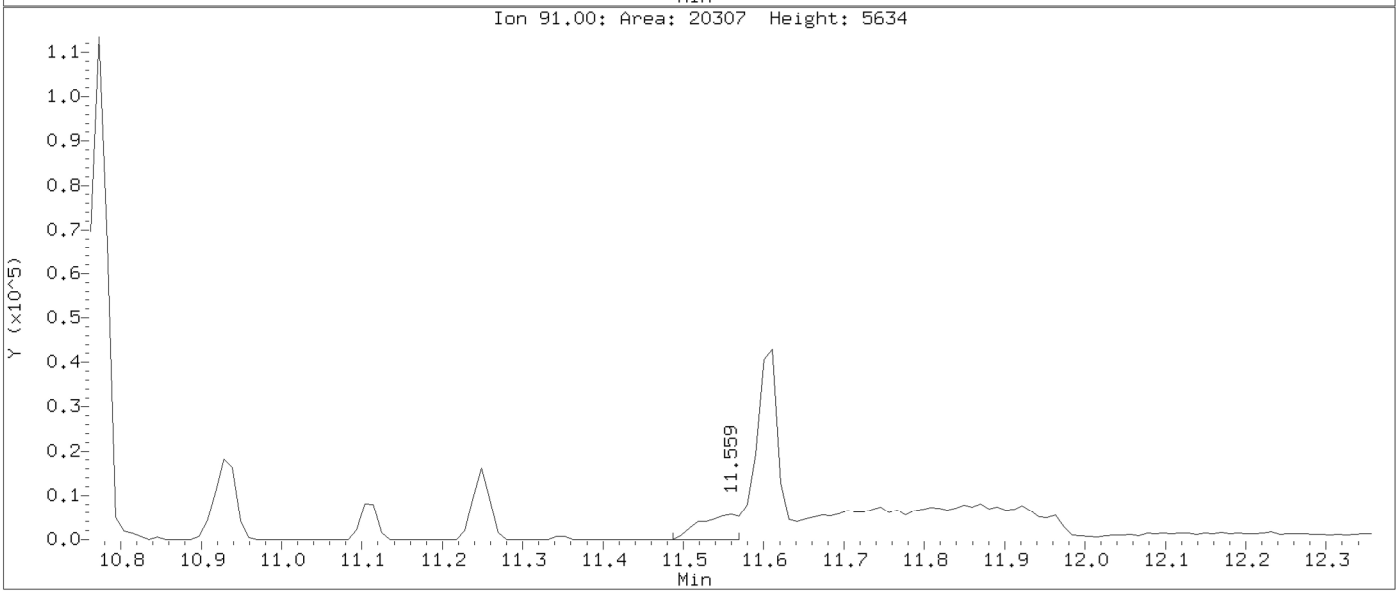
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Injection Date: 30-JUN-2014 12:23
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

BEFORE MANUAL INTEGRATION



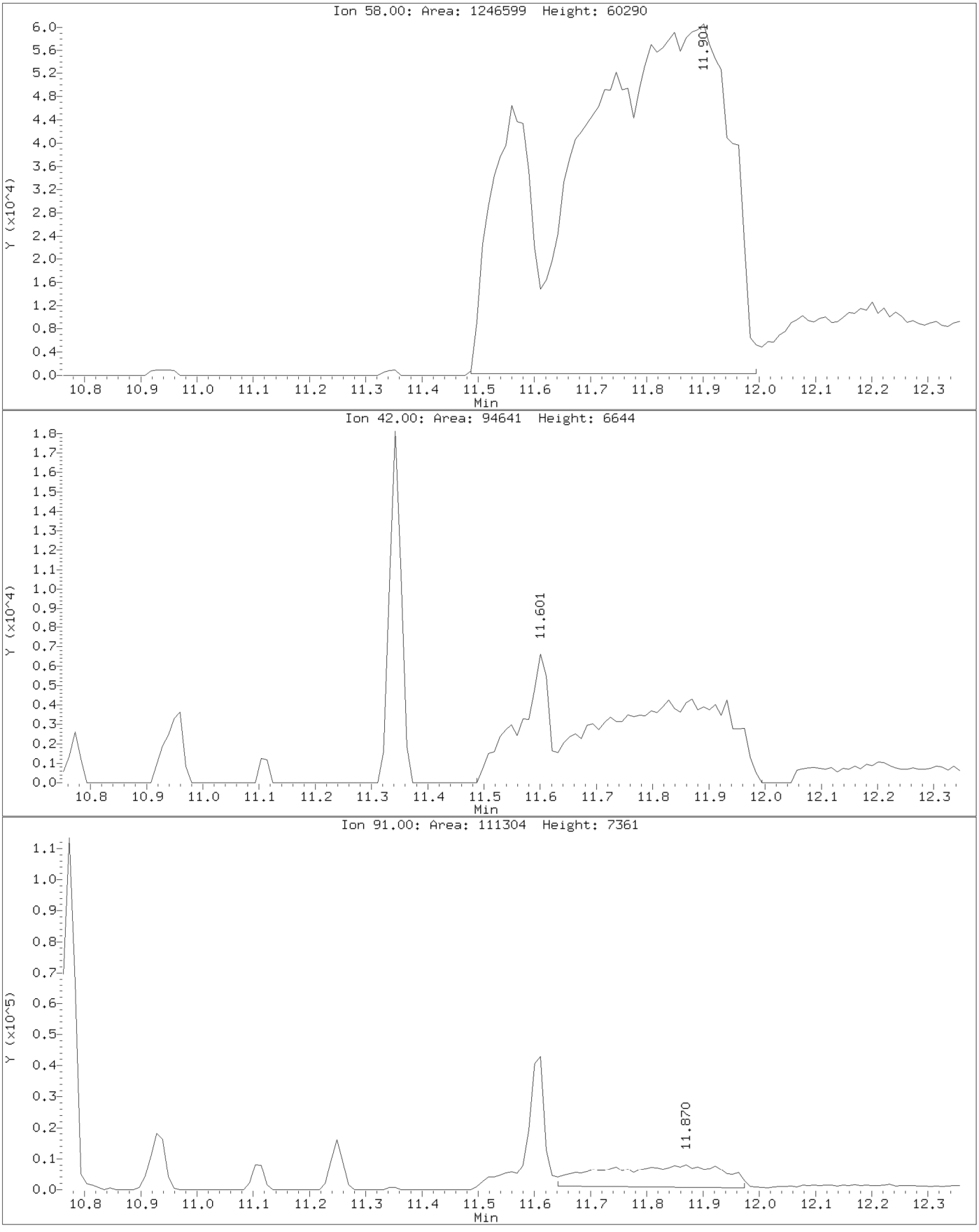




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Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

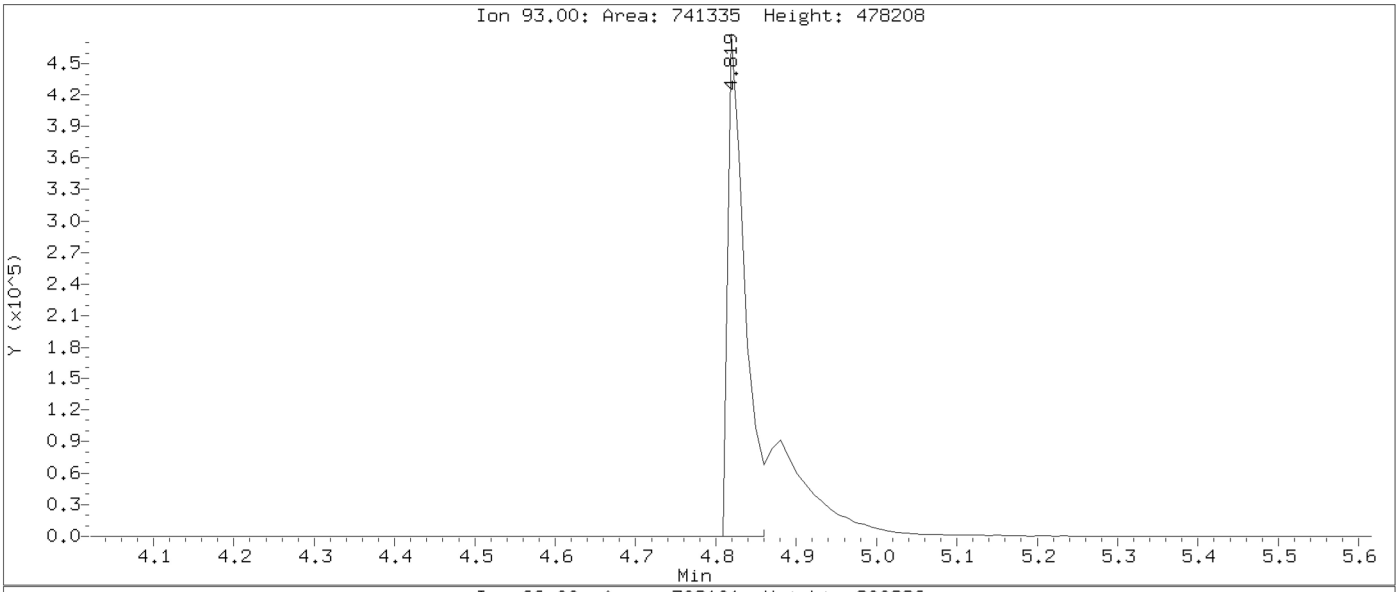
AFTER MANUAL INTEGRATION

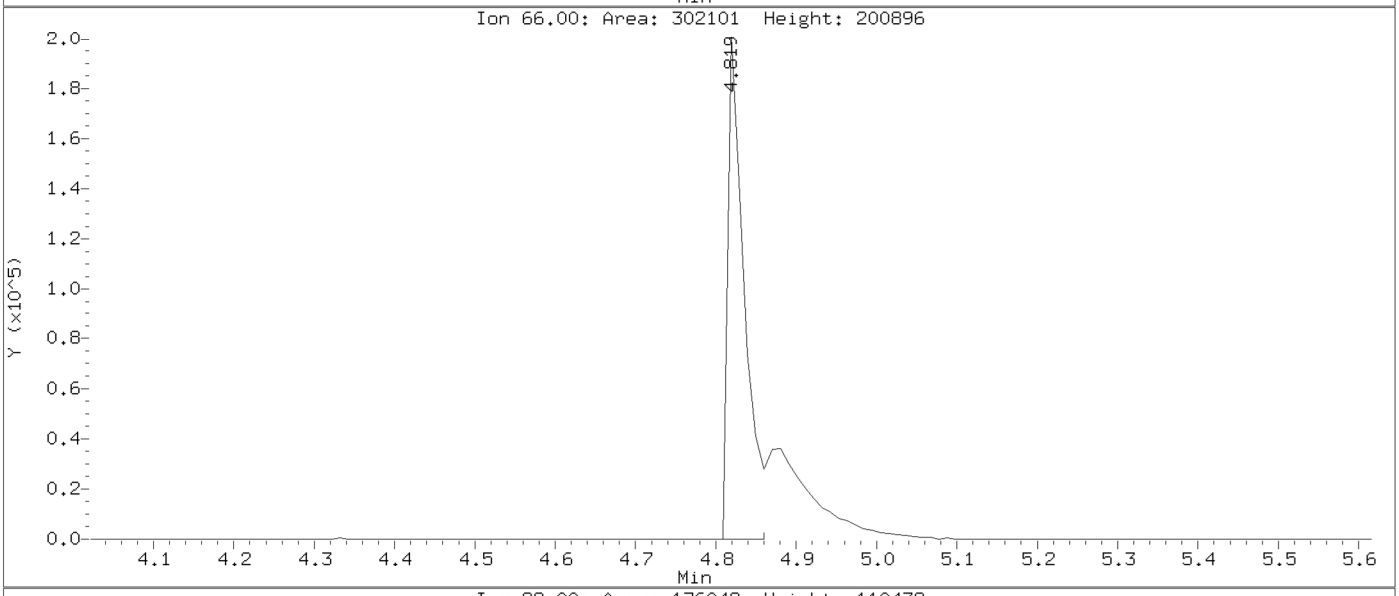


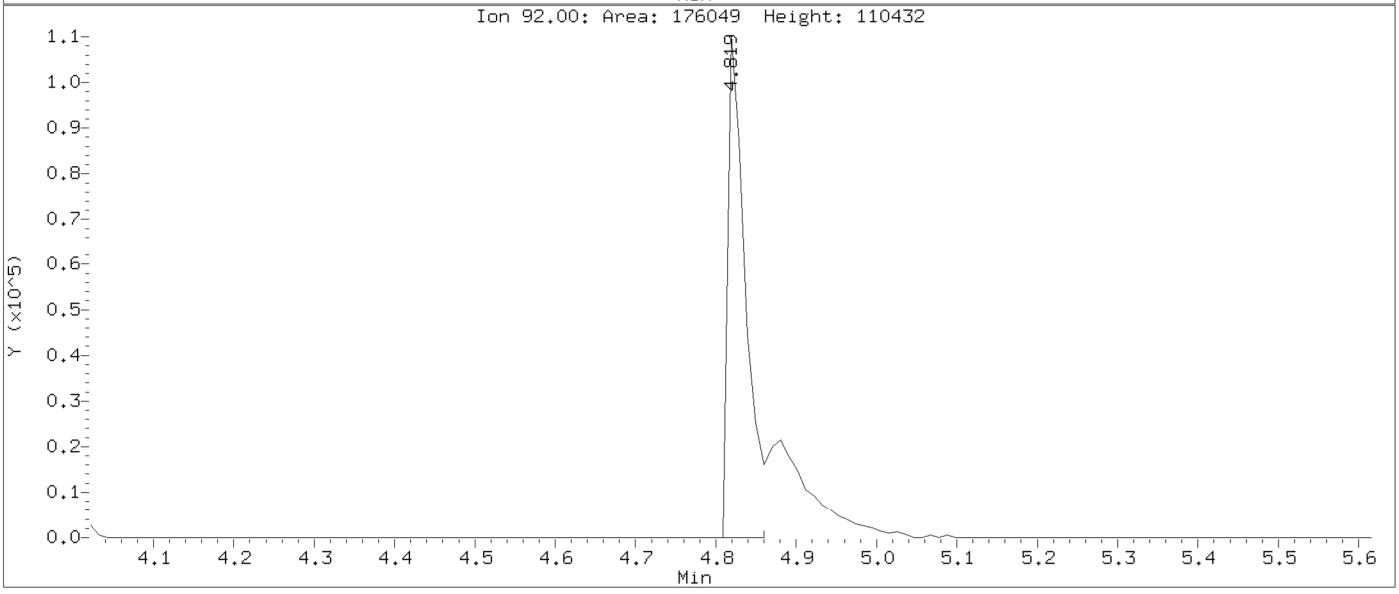
Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Picoline
CAS Number: 109-06-8

BEFORE MANUAL INTEGRATION



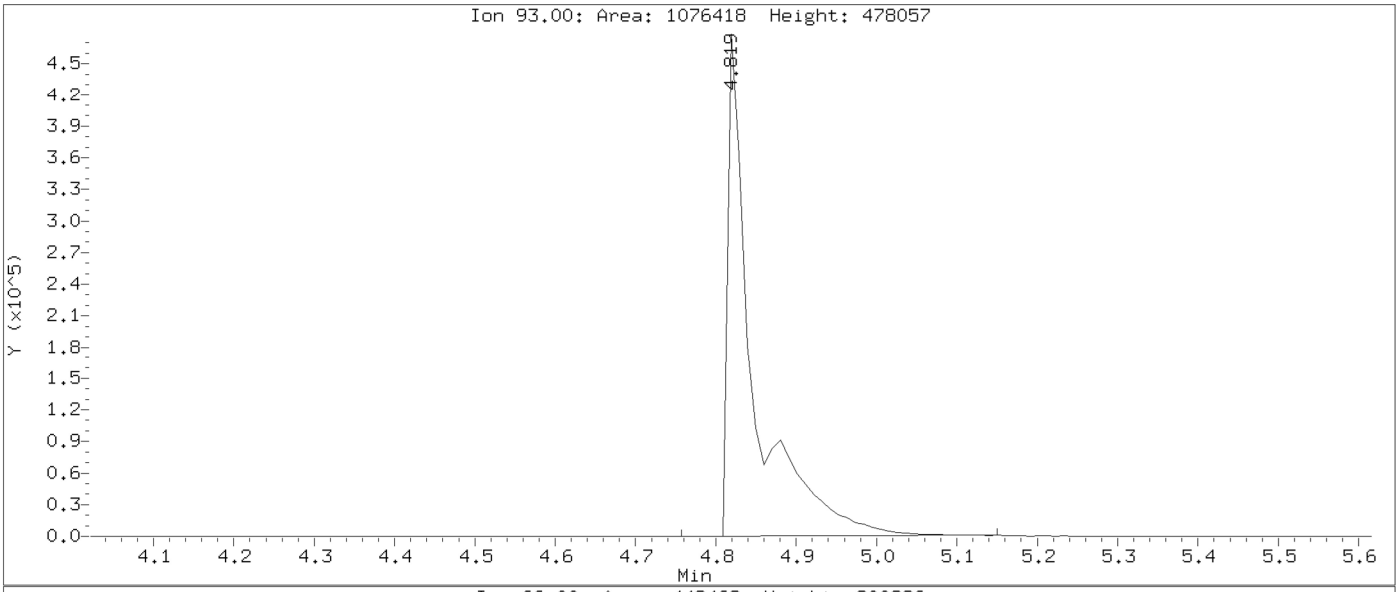


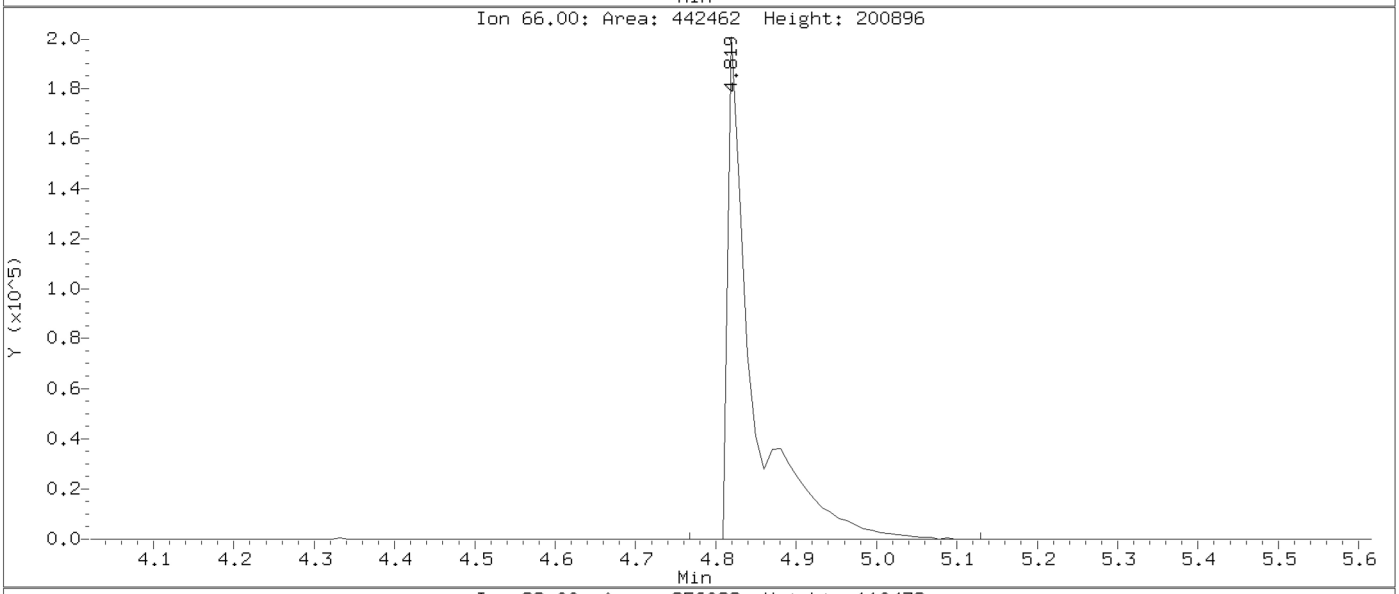


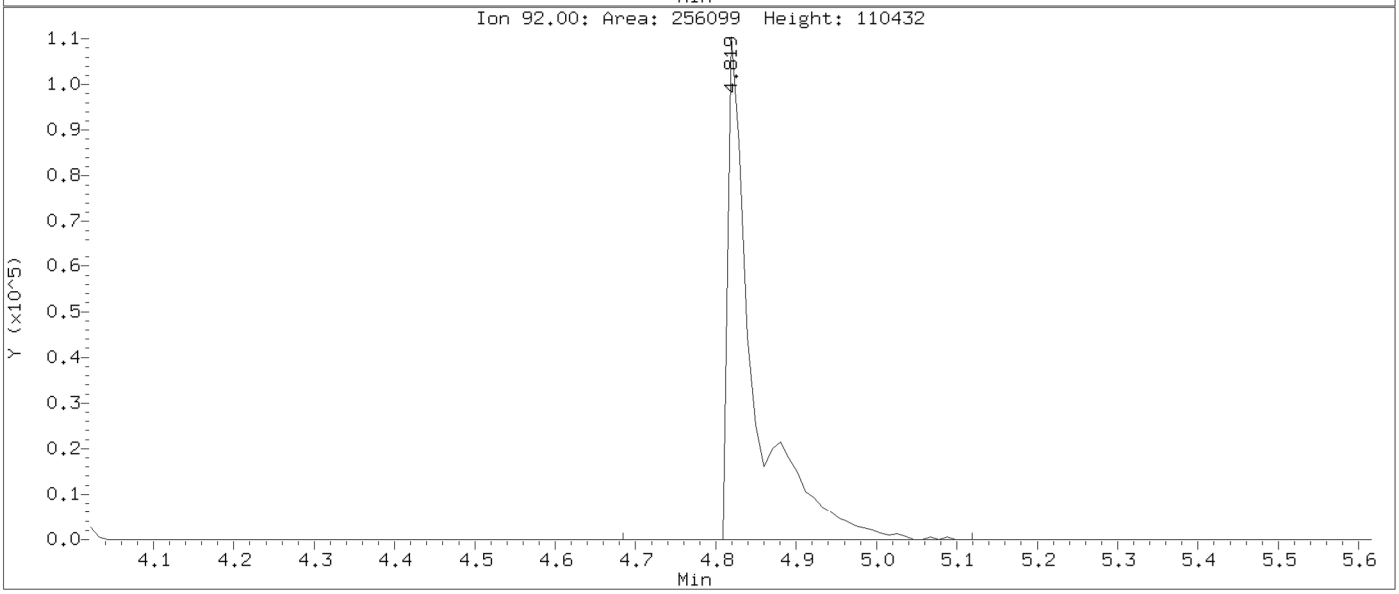
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Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Picoline
CAS Number: 109-06-8

AFTER MANUAL INTEGRATION



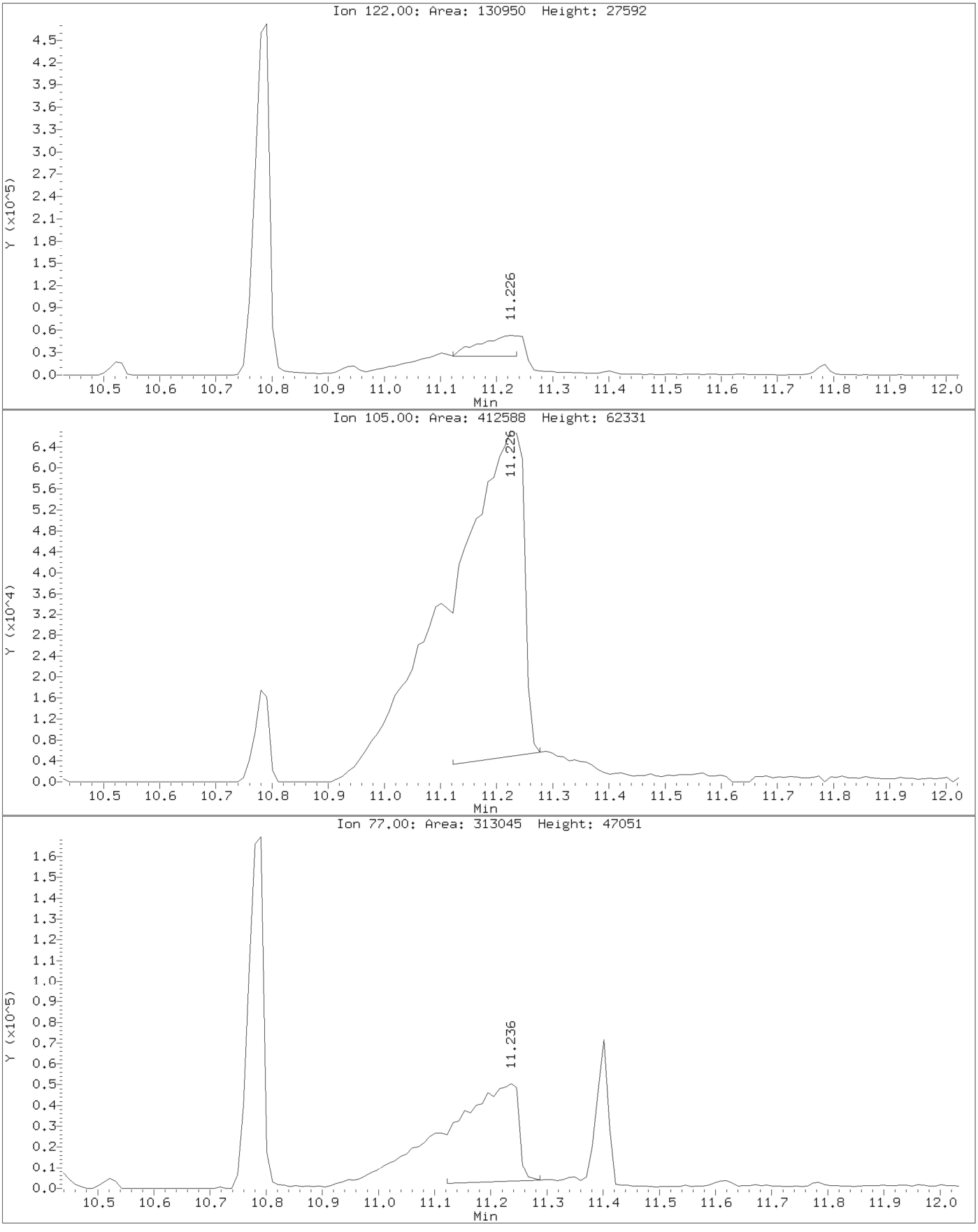




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Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

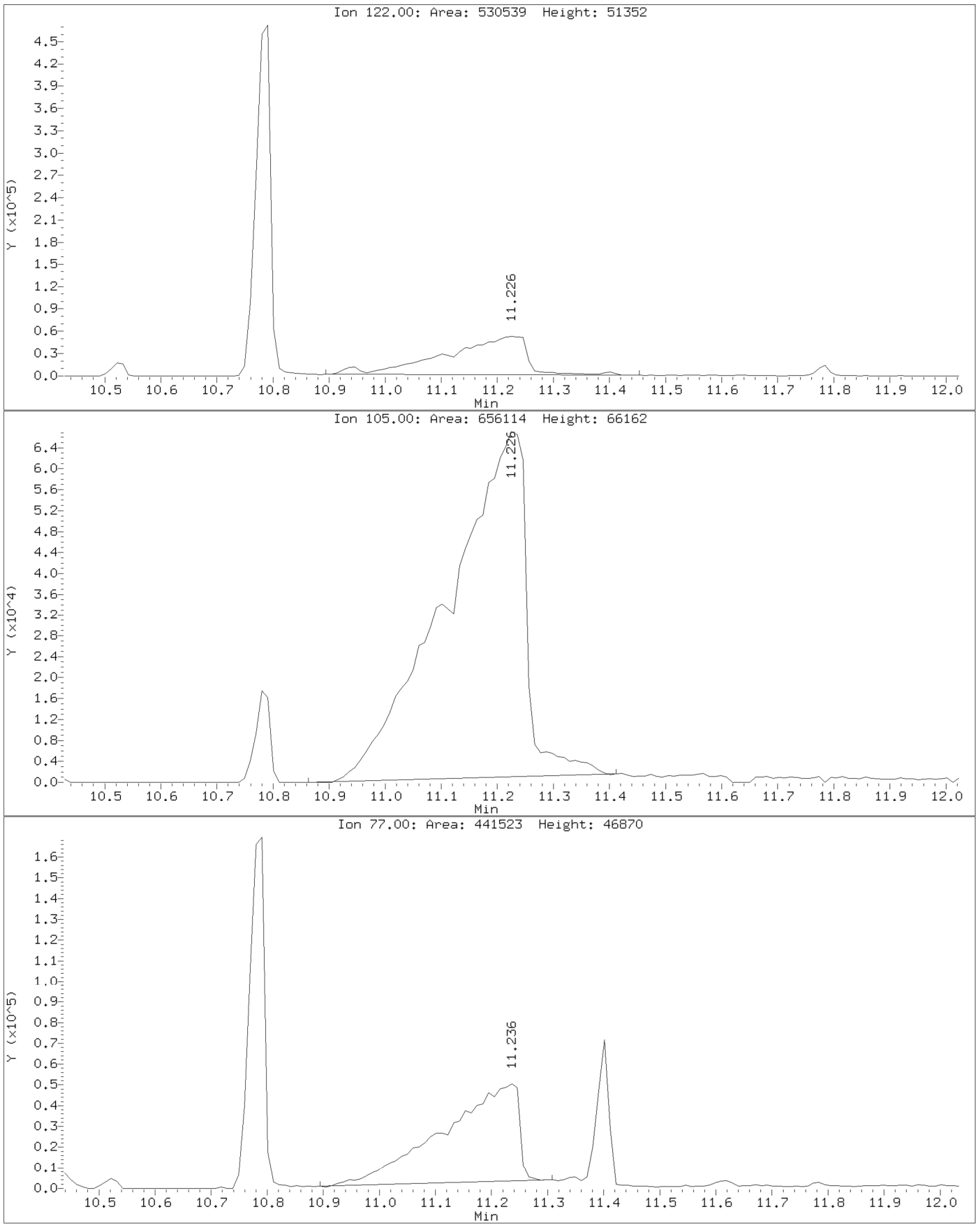
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
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Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

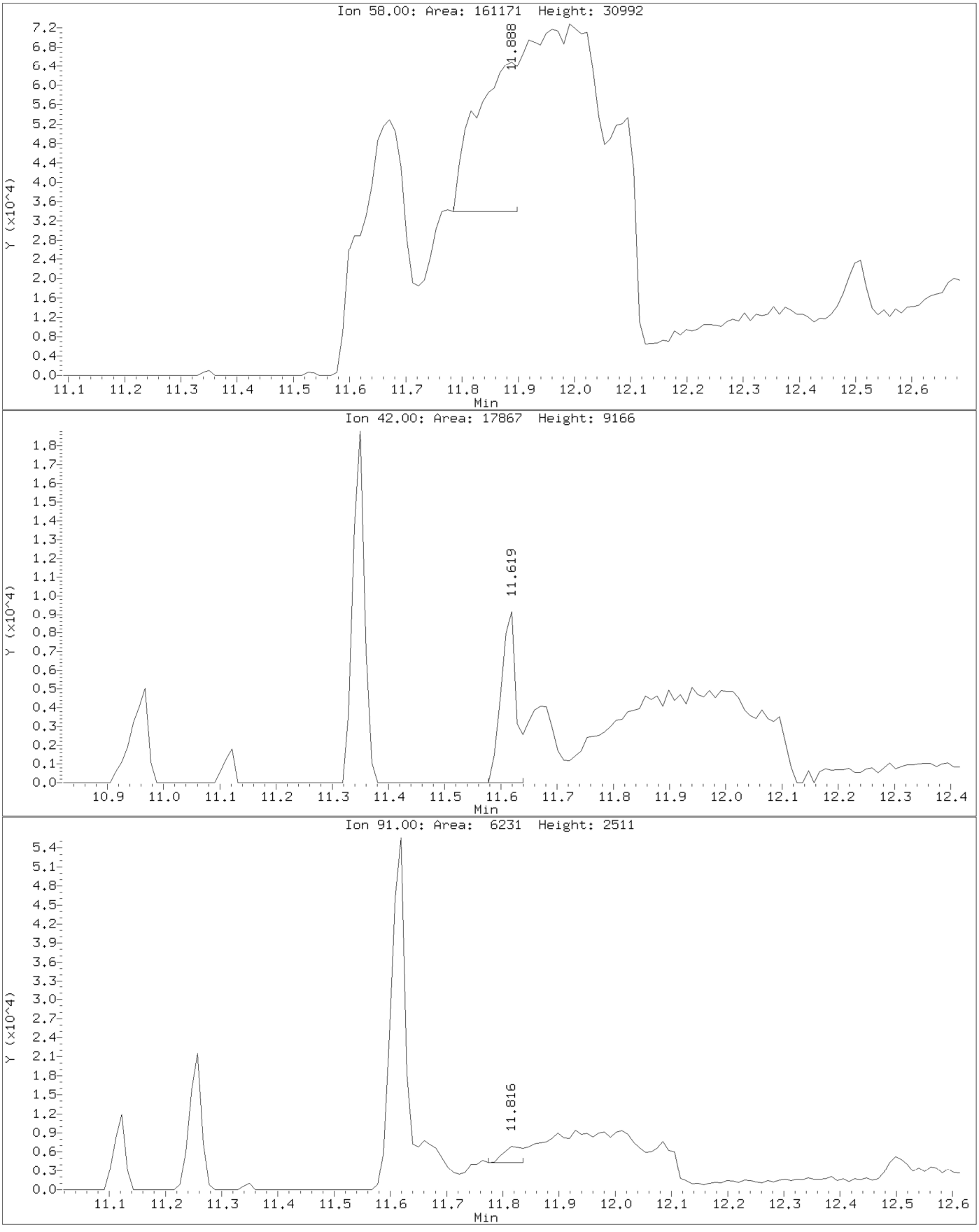
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

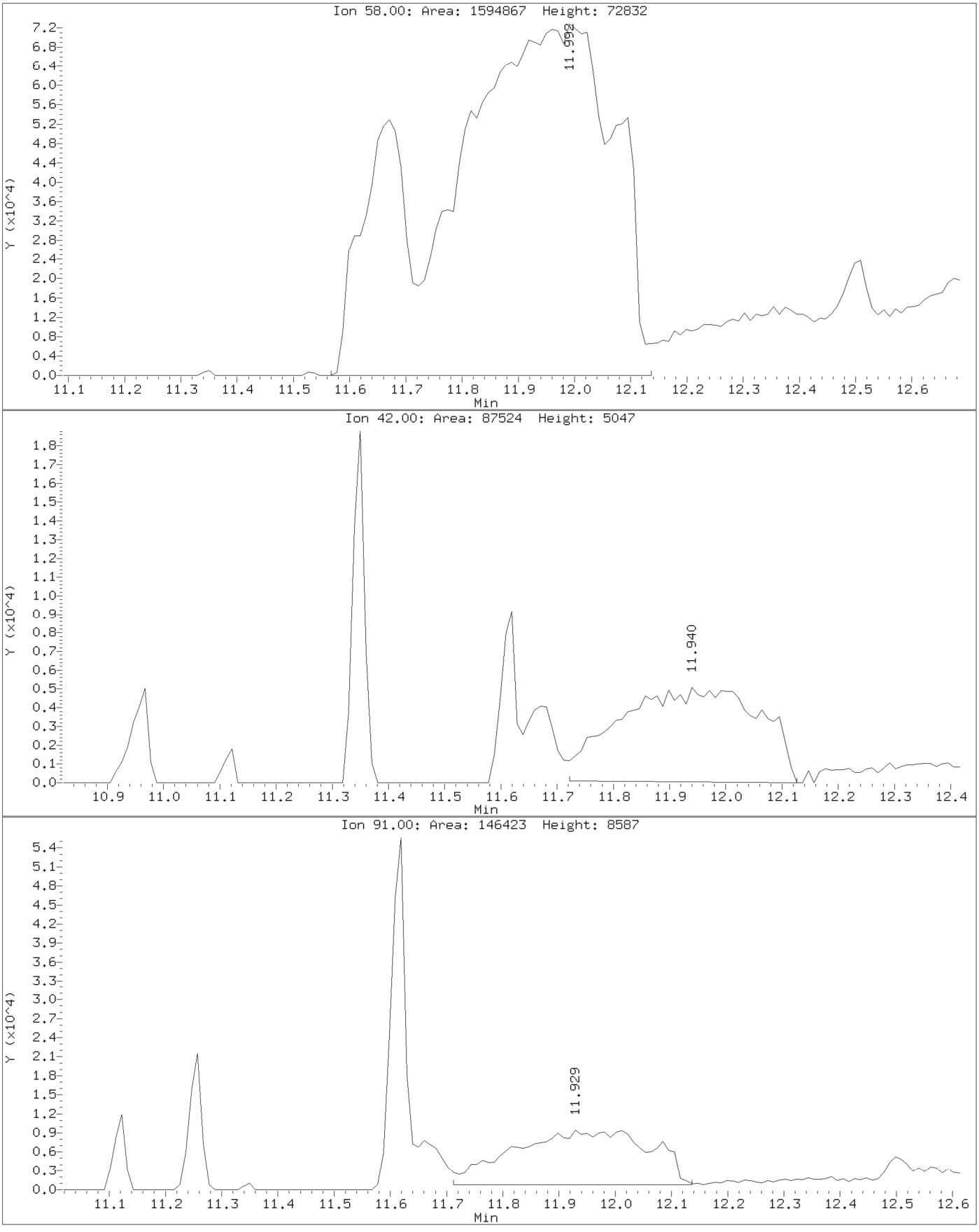
BEFORE MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

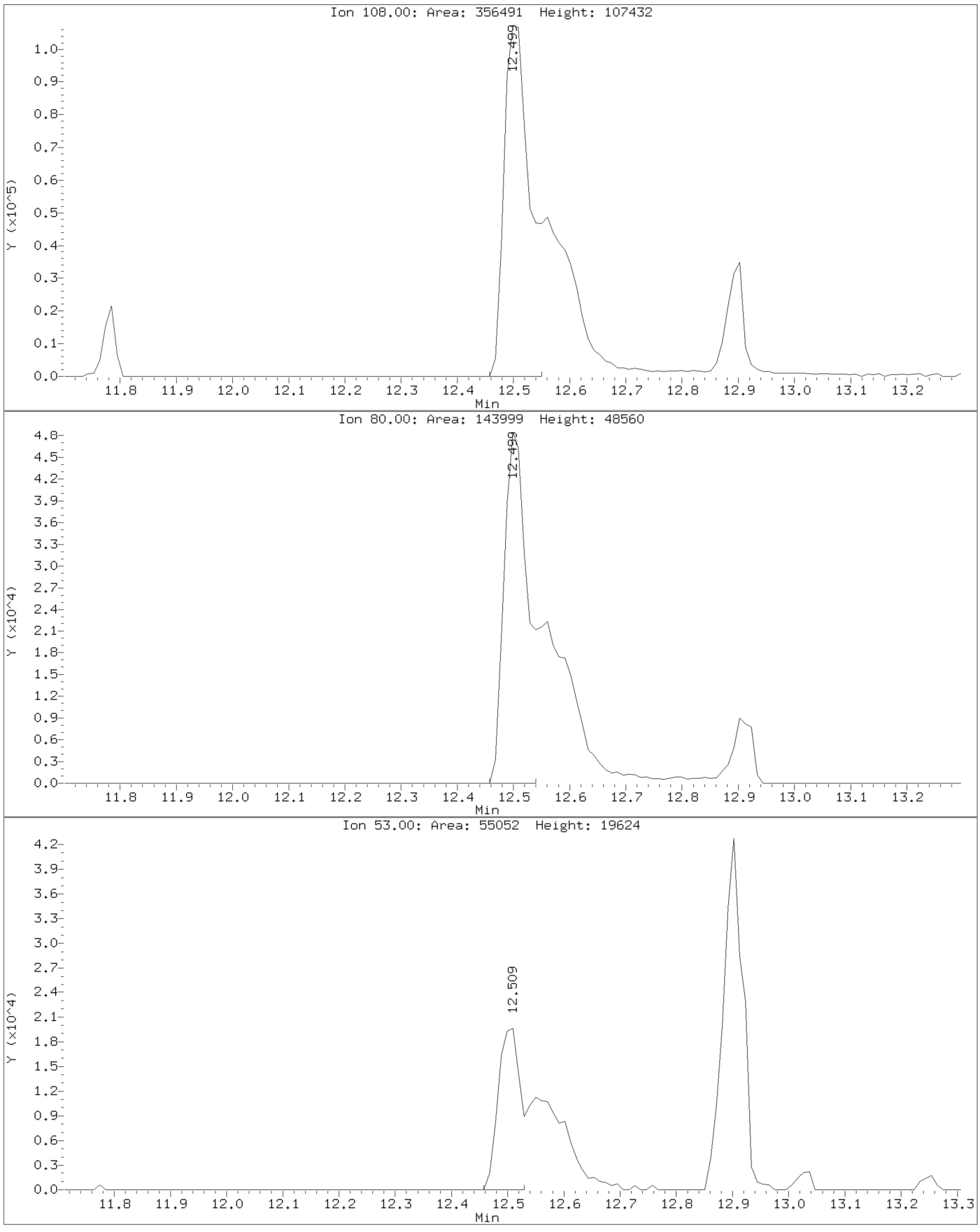
AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6204.D
Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: p-Phenylenediamine
CAS Number: 106-50-3

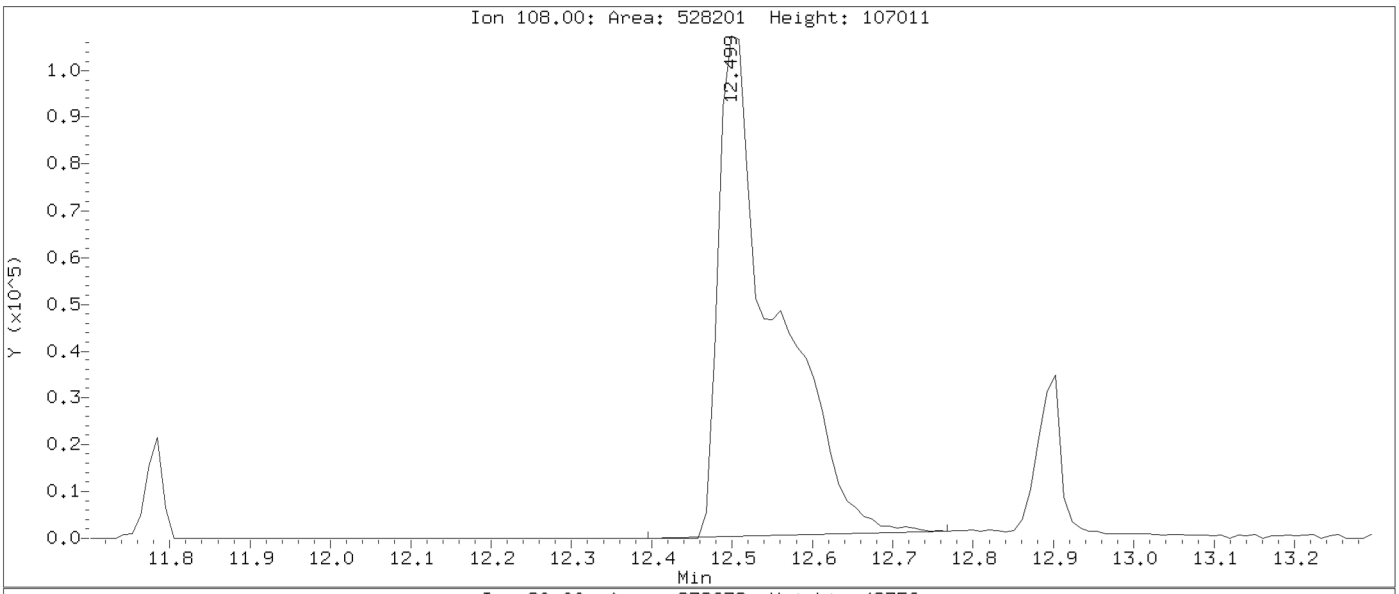
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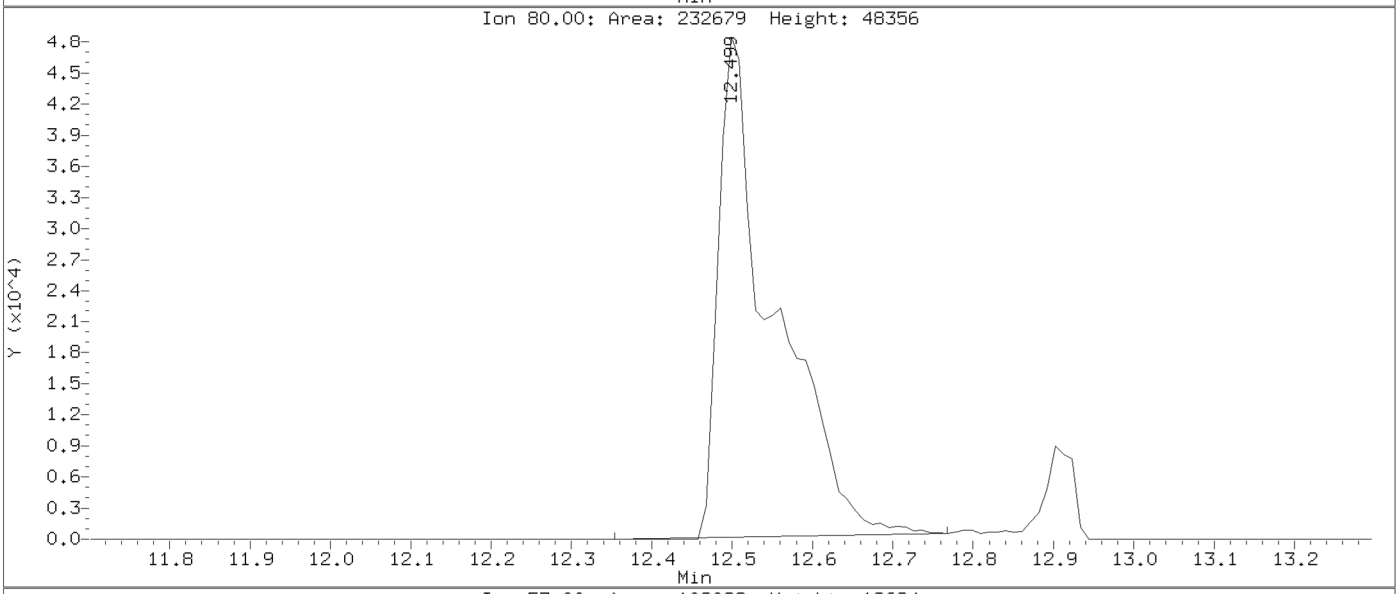


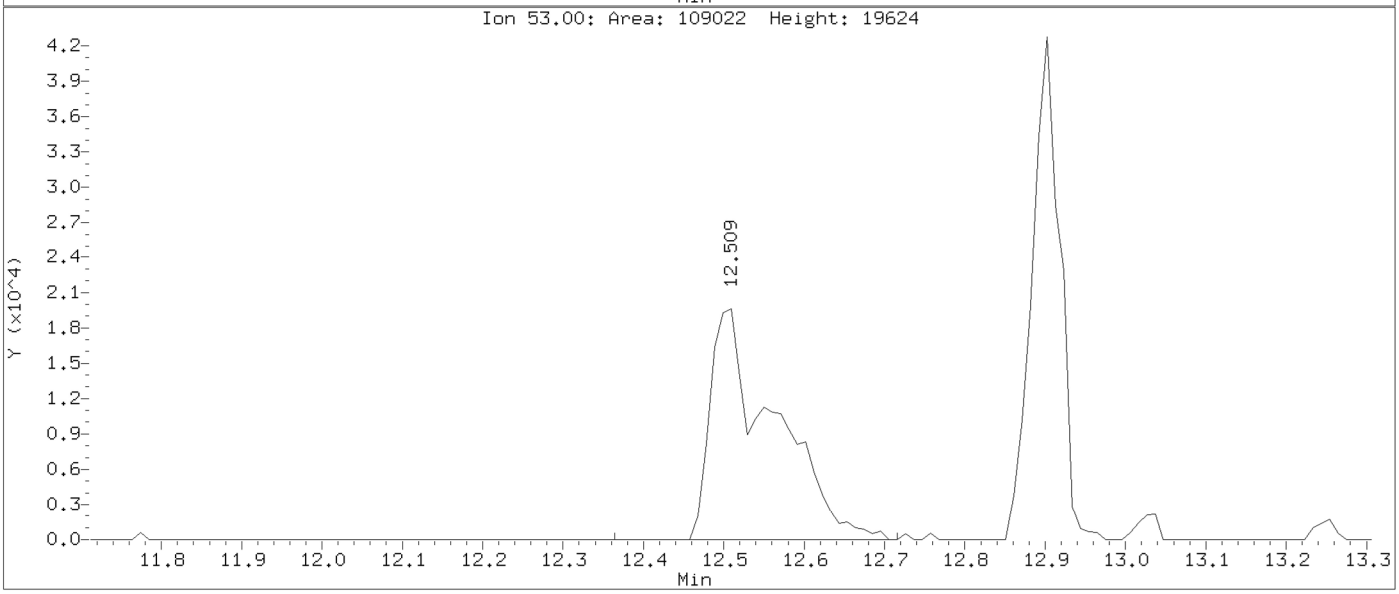
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Injection Date: 30-JUN-2014 13:06
Instrument: gcms-u.i
Client Sample ID:

Compound: p-Phenylenediamine
CAS Number: 106-50-3

AFTER MANUAL INTEGRATION



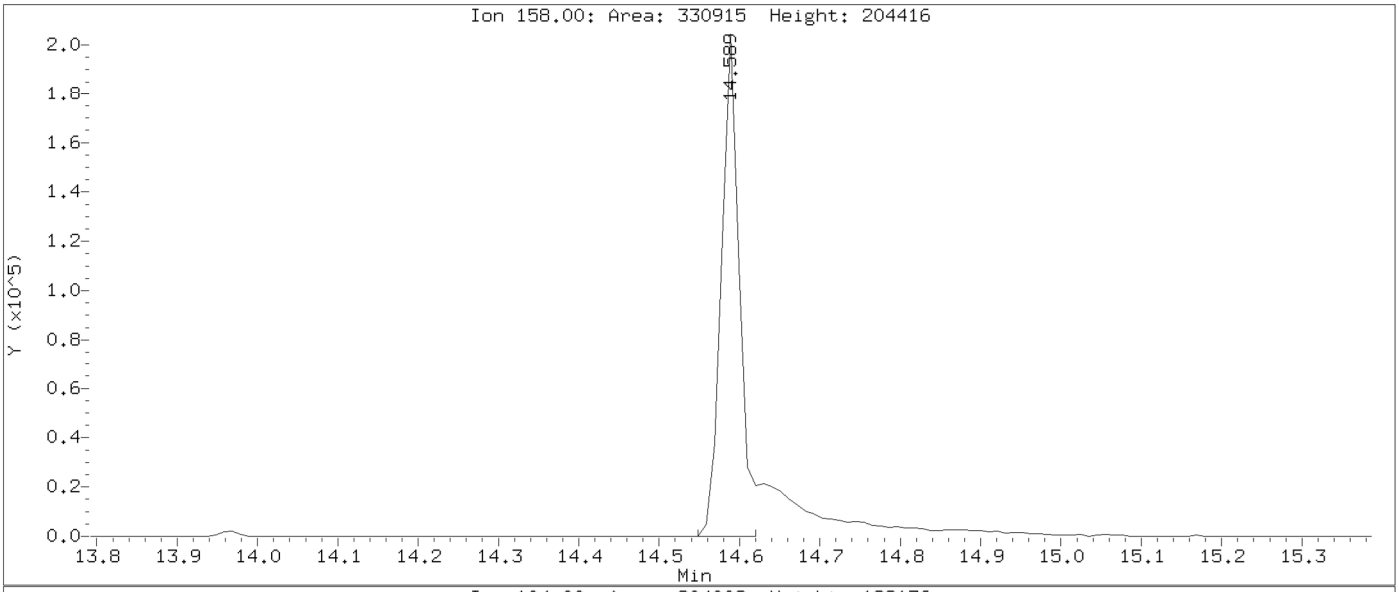


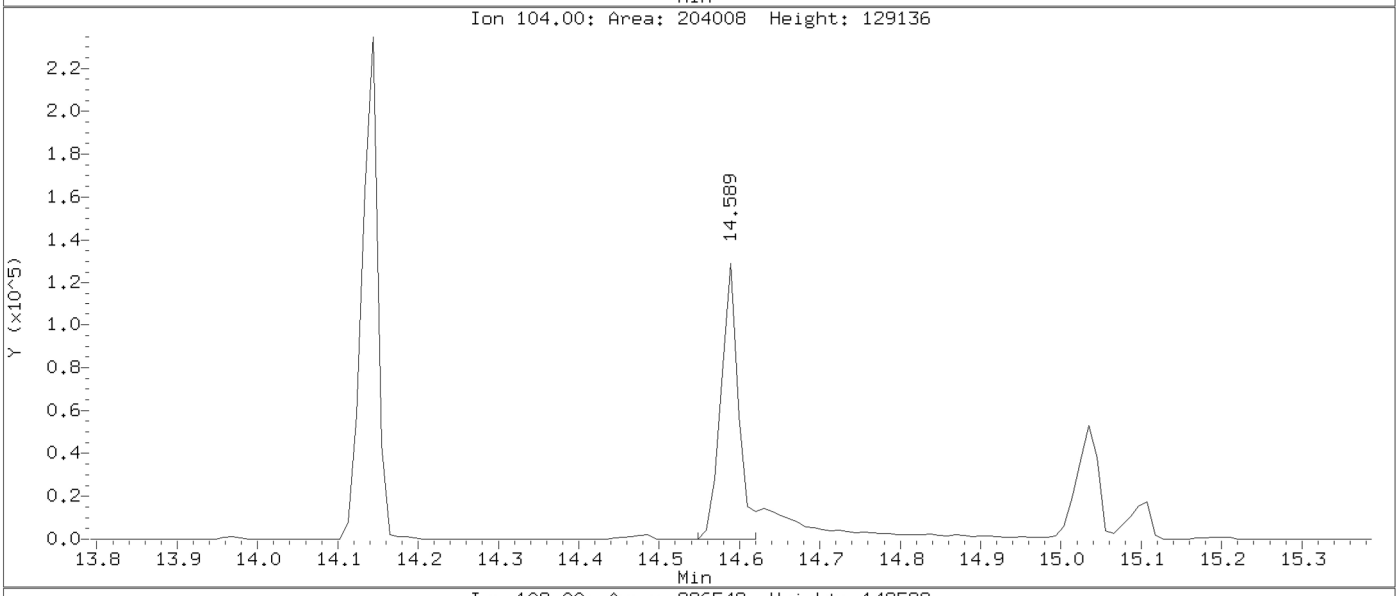


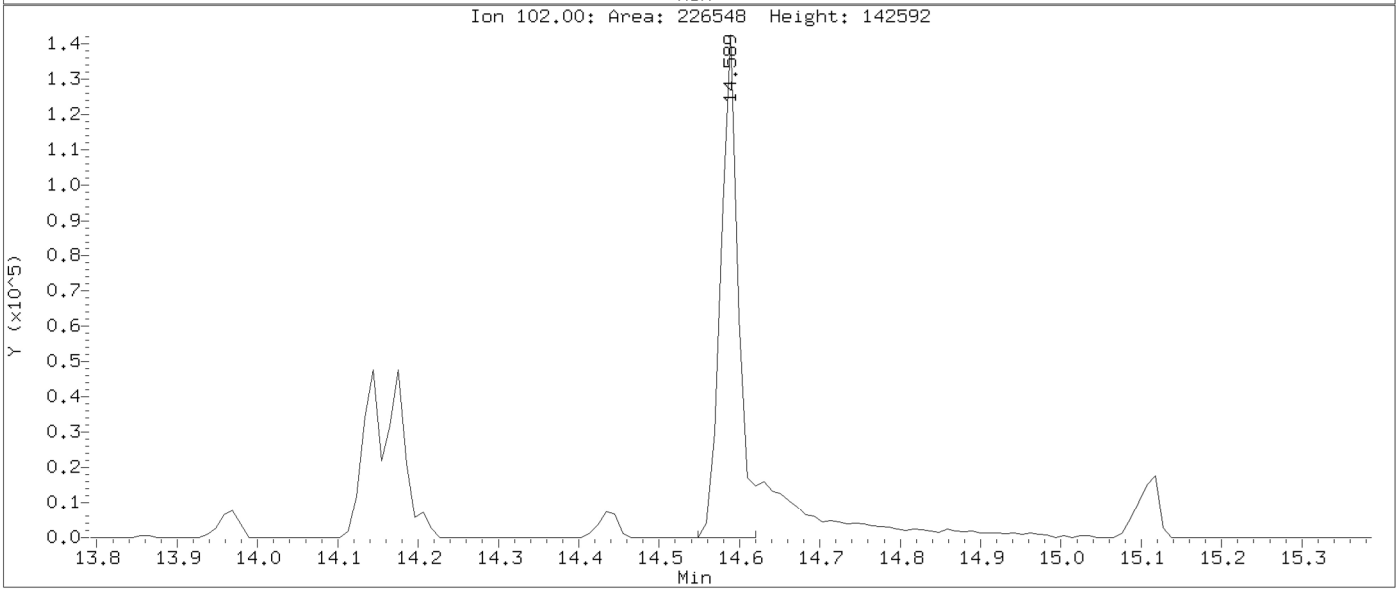
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Instrument: gcms-u.i
Client Sample ID:

Compound: 1,4-Naphthoquinone
CAS Number: 130-15-4

BEFORE MANUAL INTEGRATION



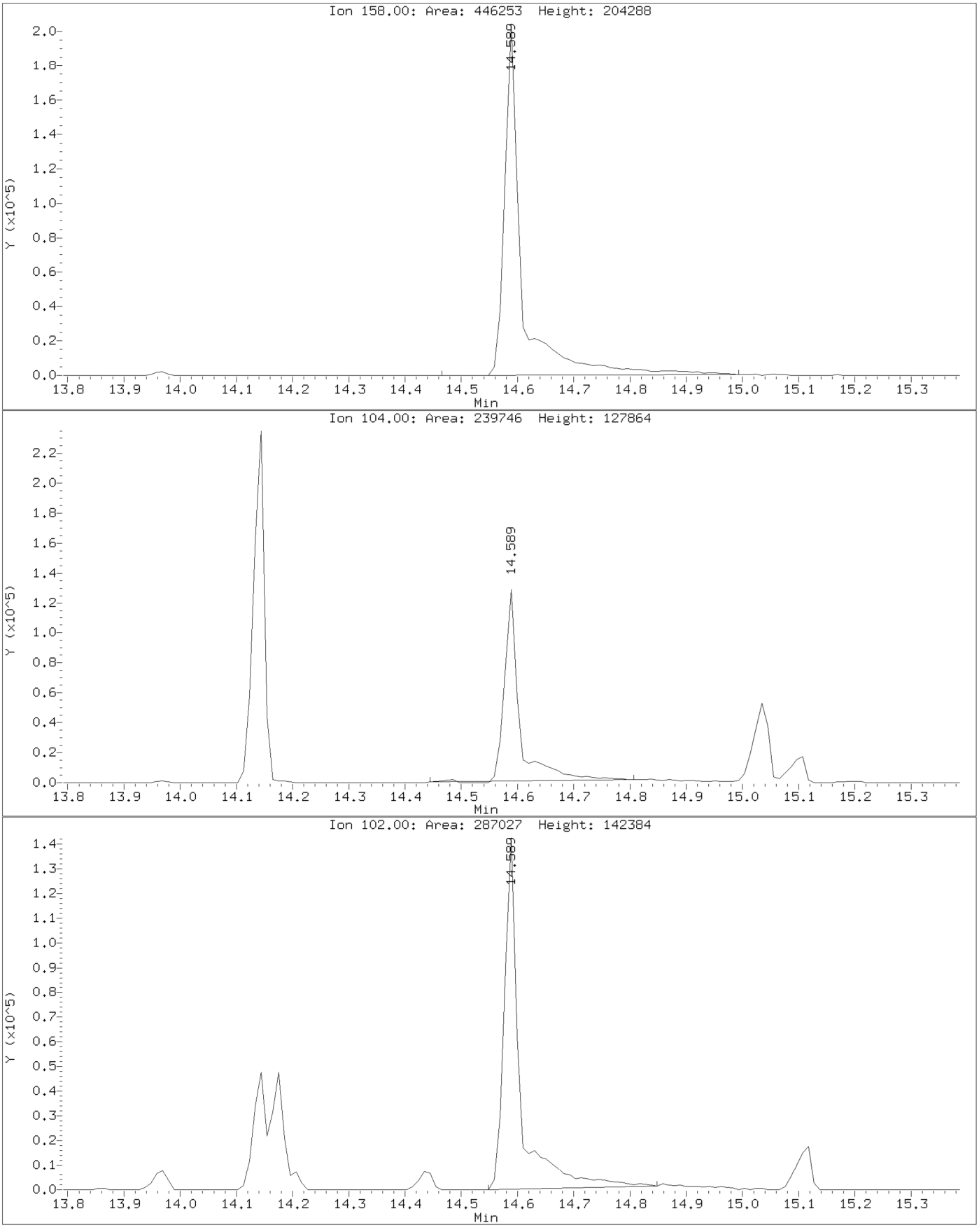




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Compound: 1,4-Naphthoquinone
CAS Number: 130-15-4

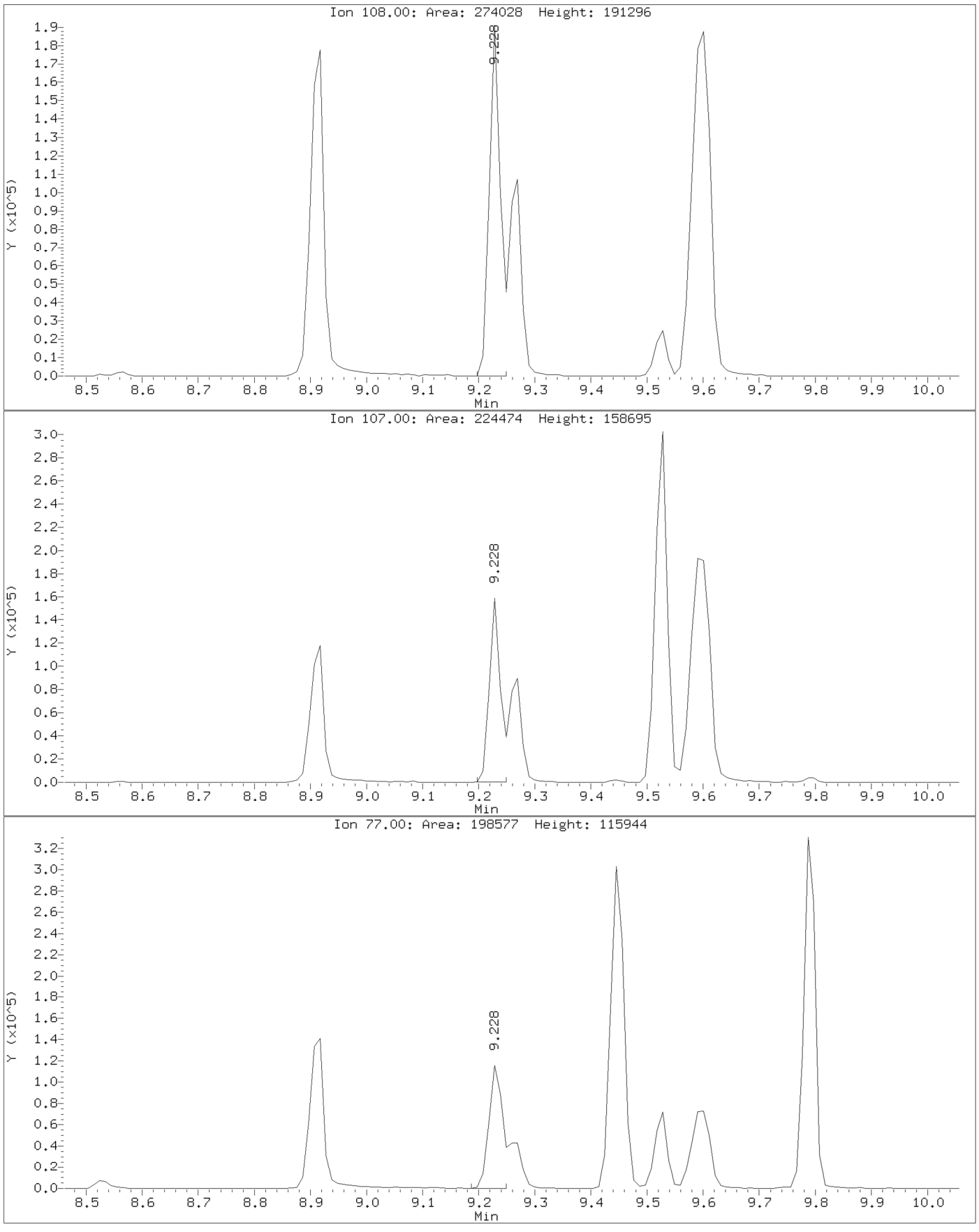
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Injection Date: 30-JUN-2014 10:09
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

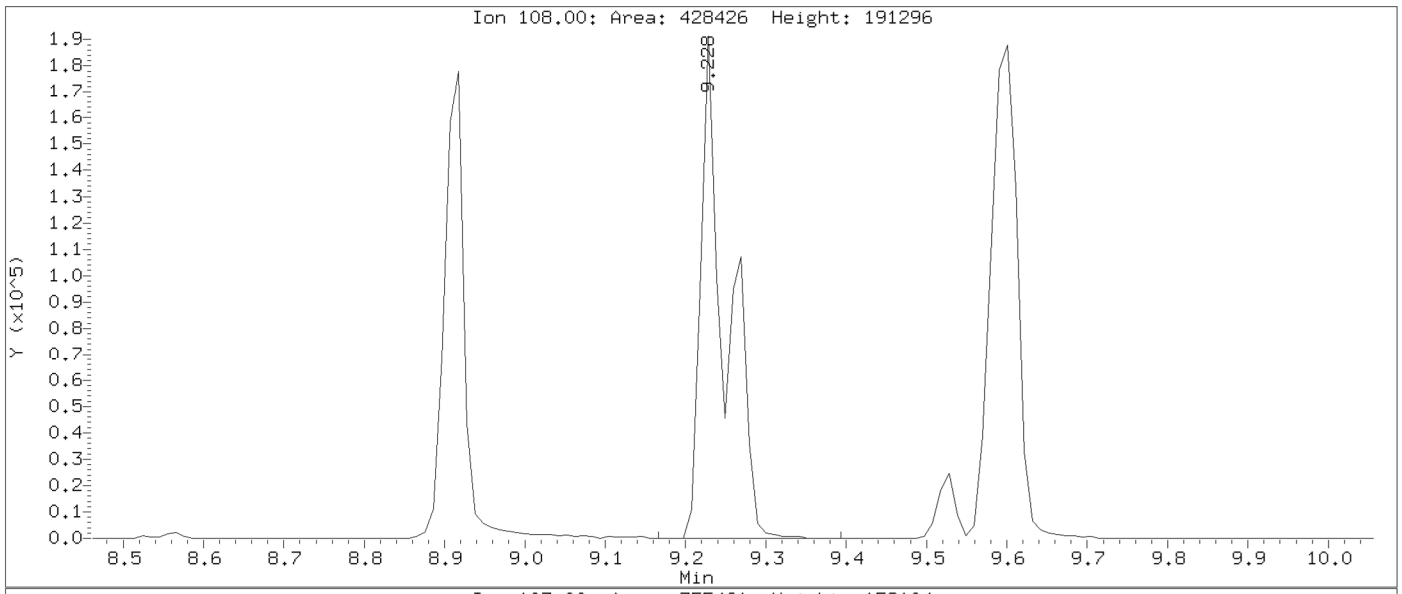
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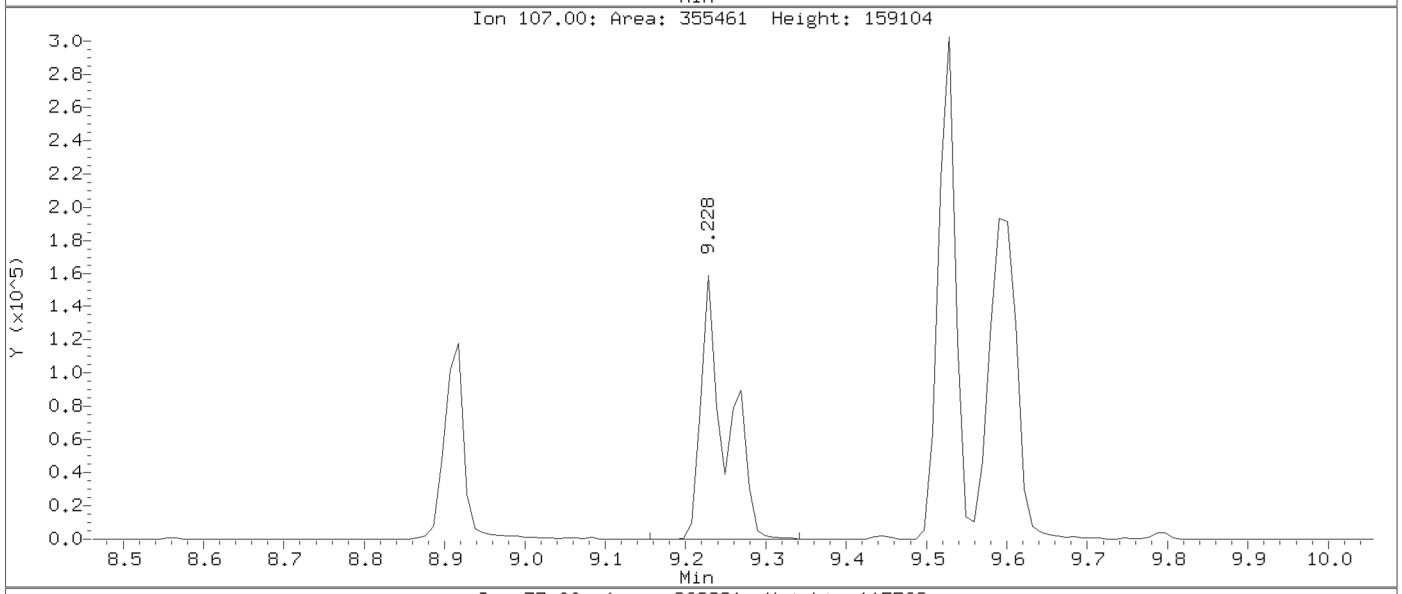


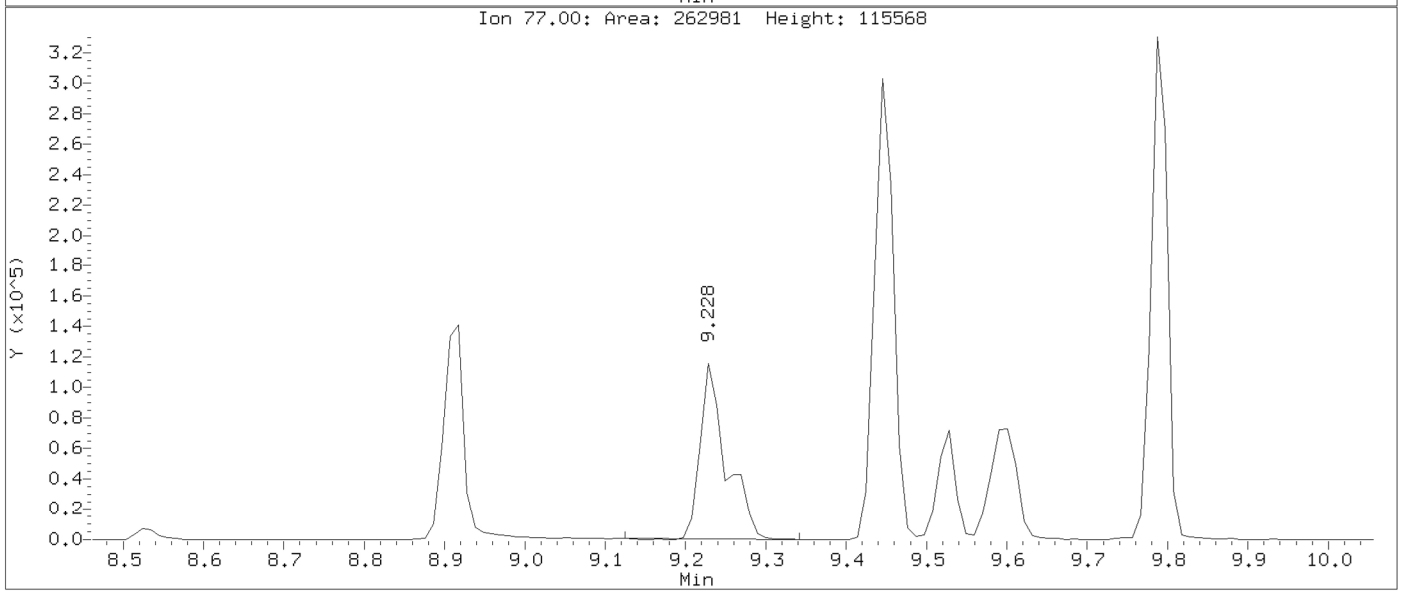
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Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION



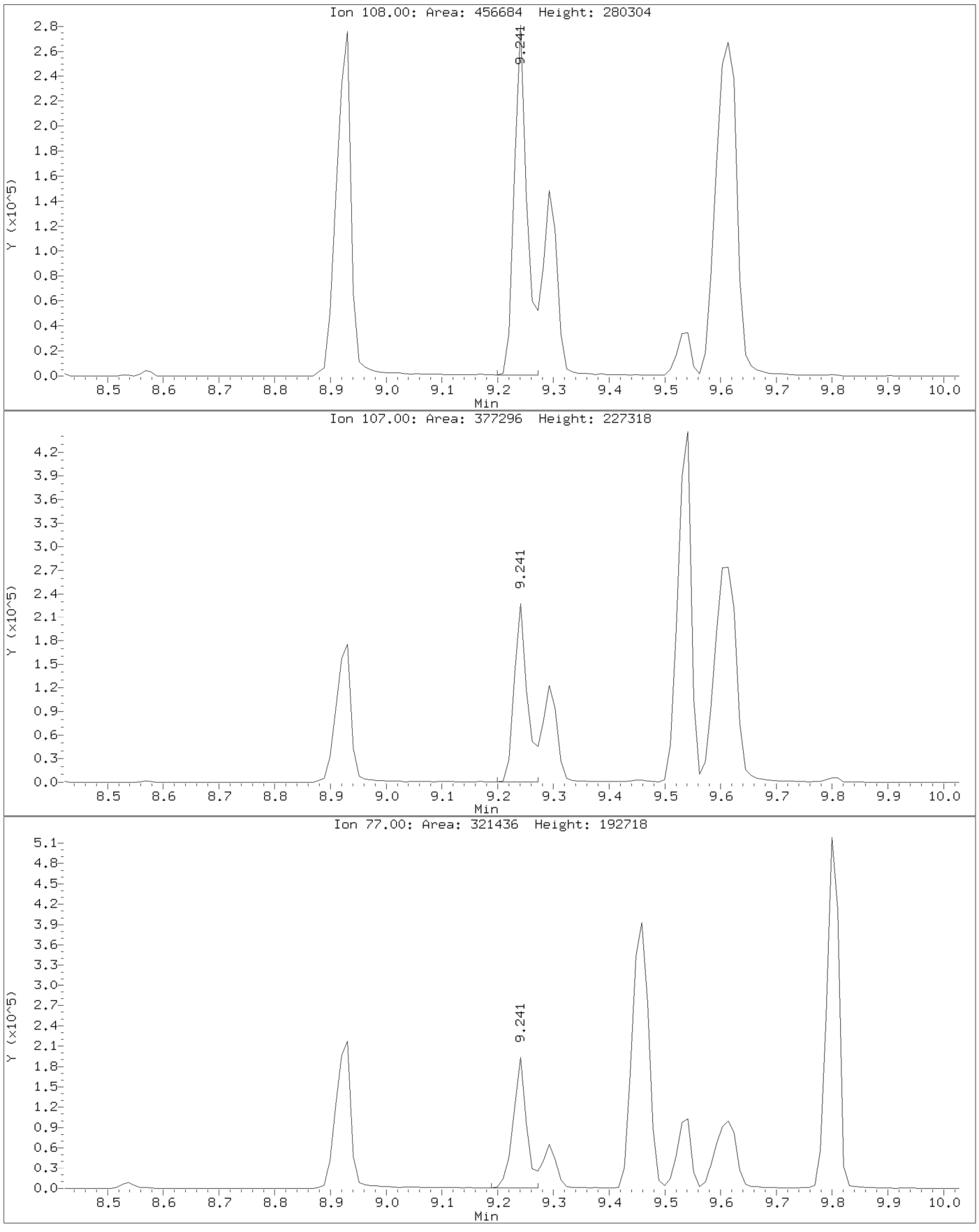




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Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

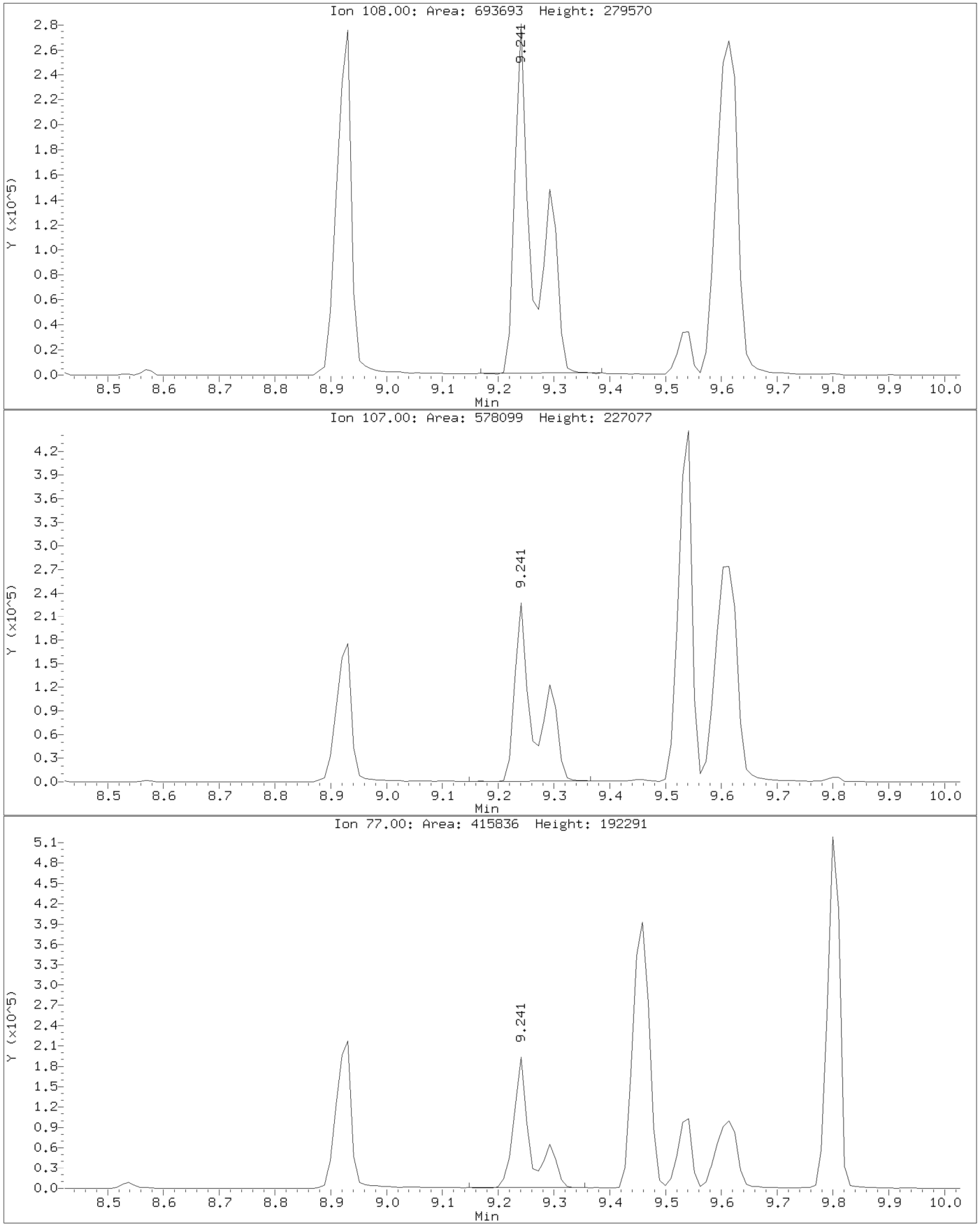
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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

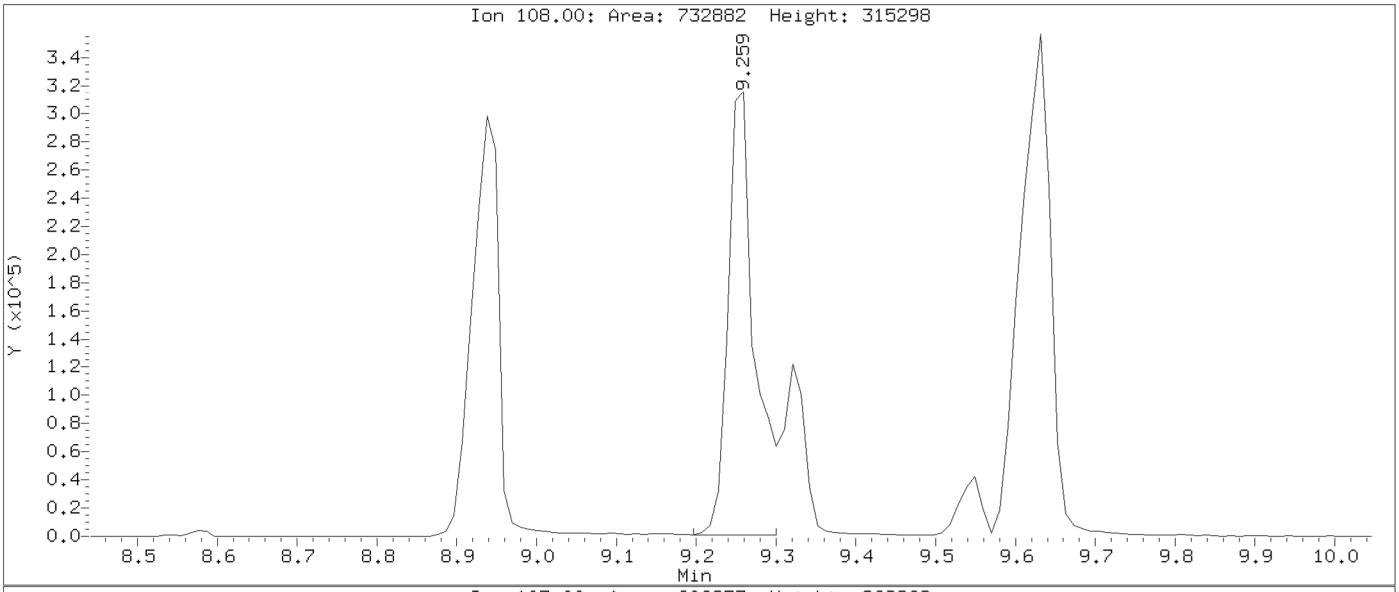
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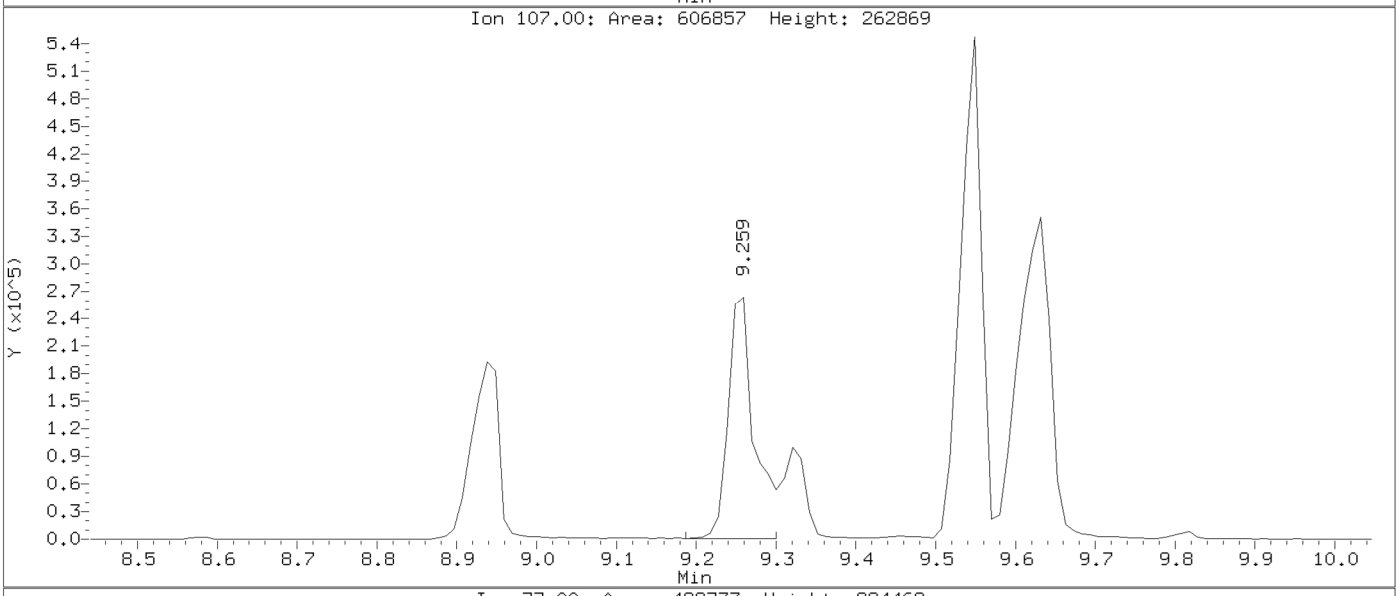


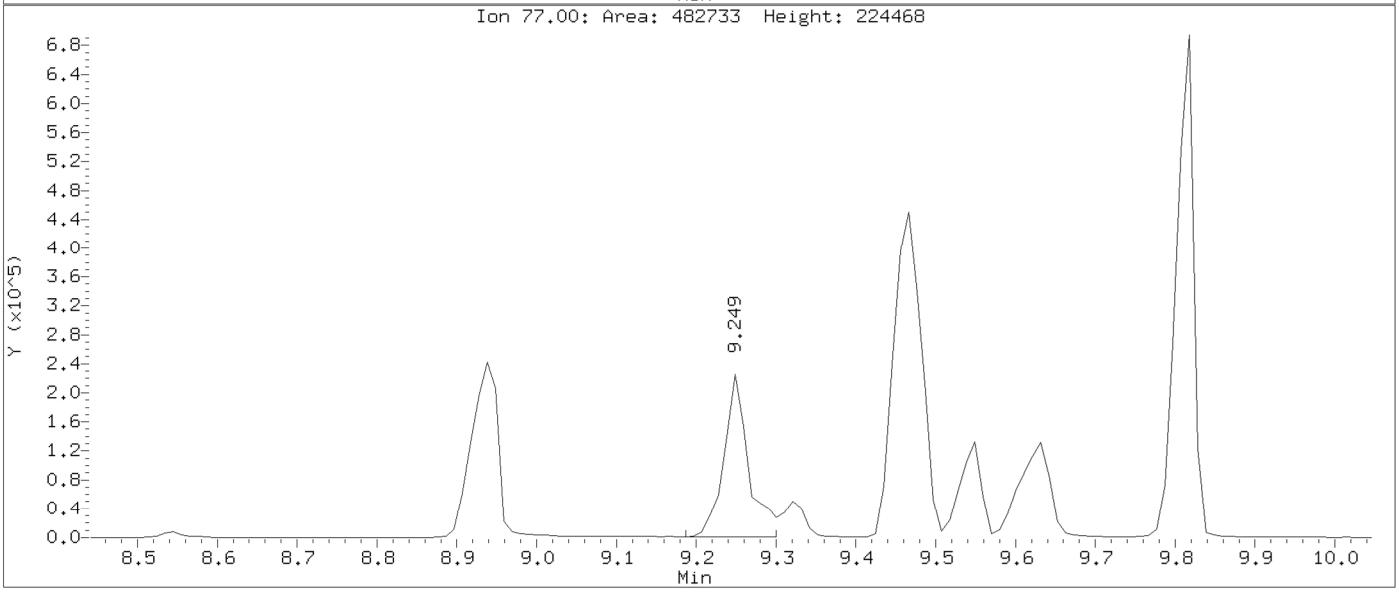
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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

BEFORE MANUAL INTEGRATION



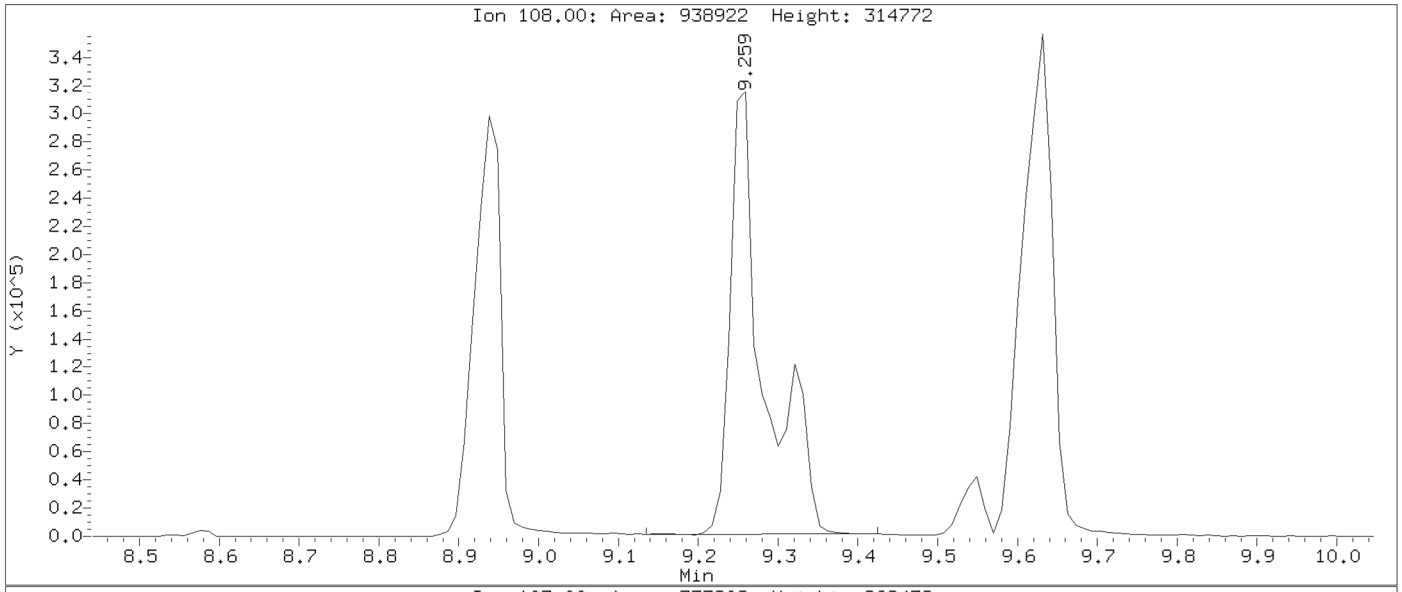


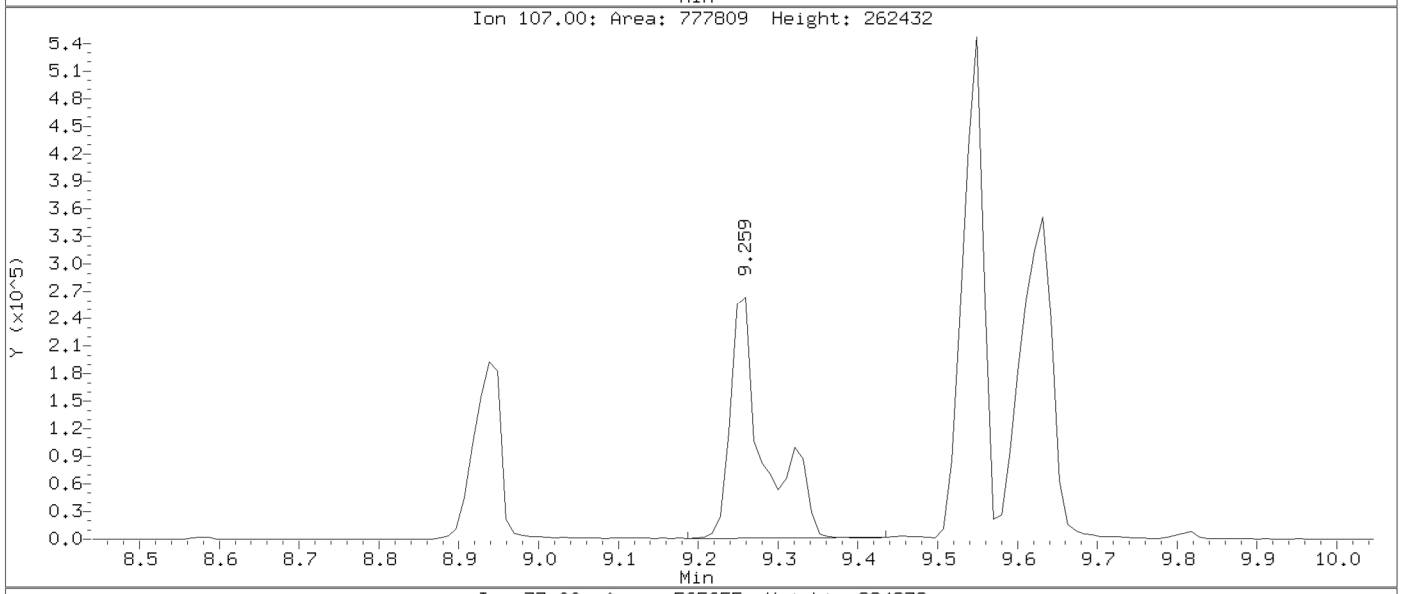


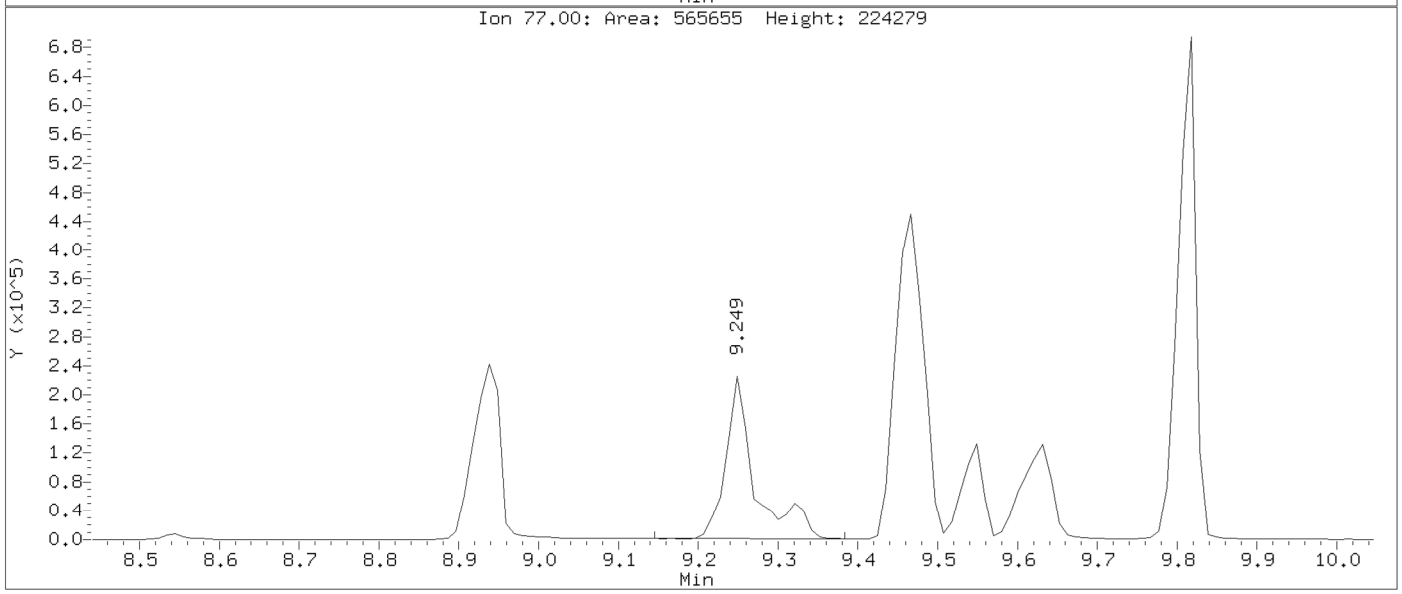
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Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION



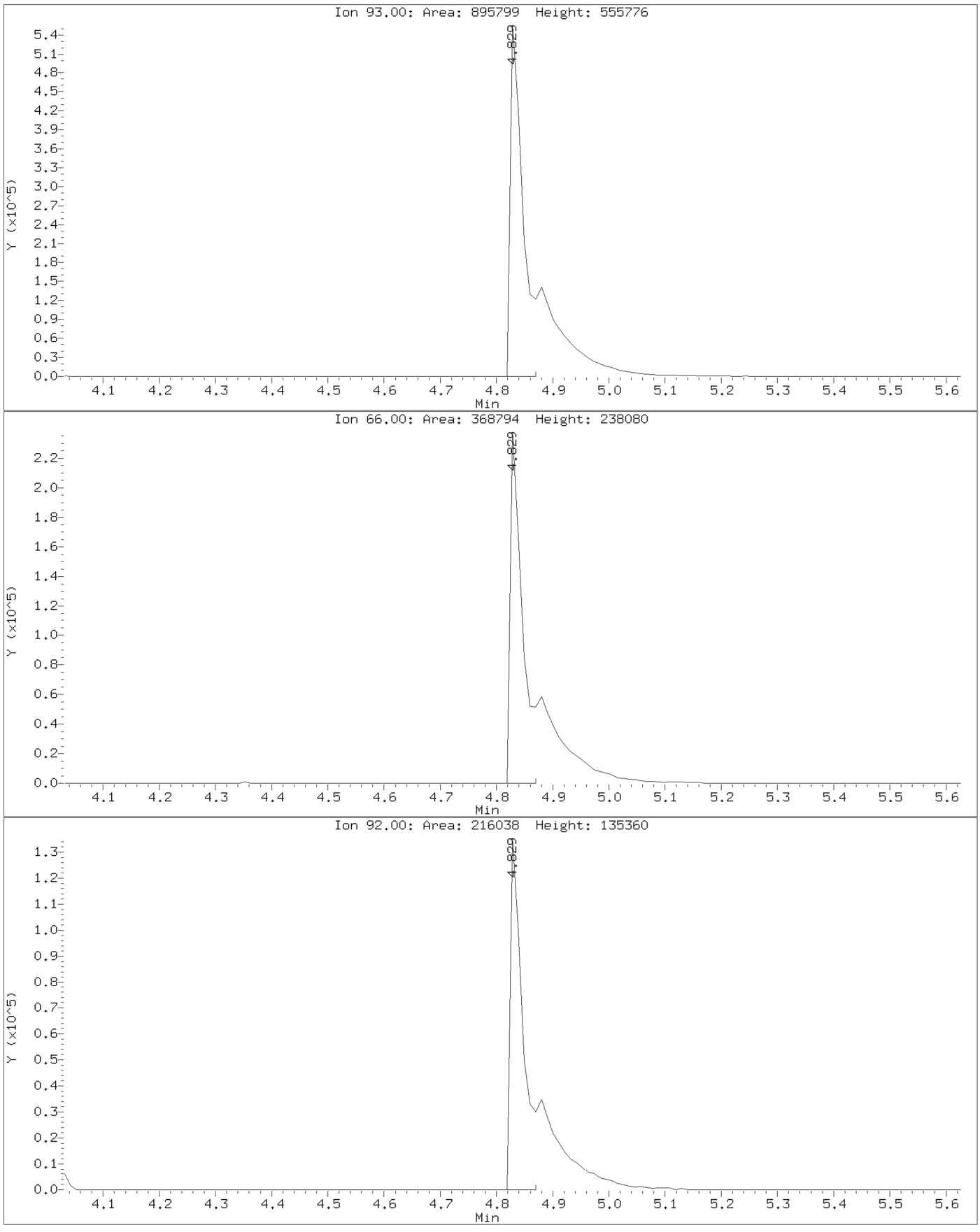




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Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Picoline
CAS Number: 109-06-8

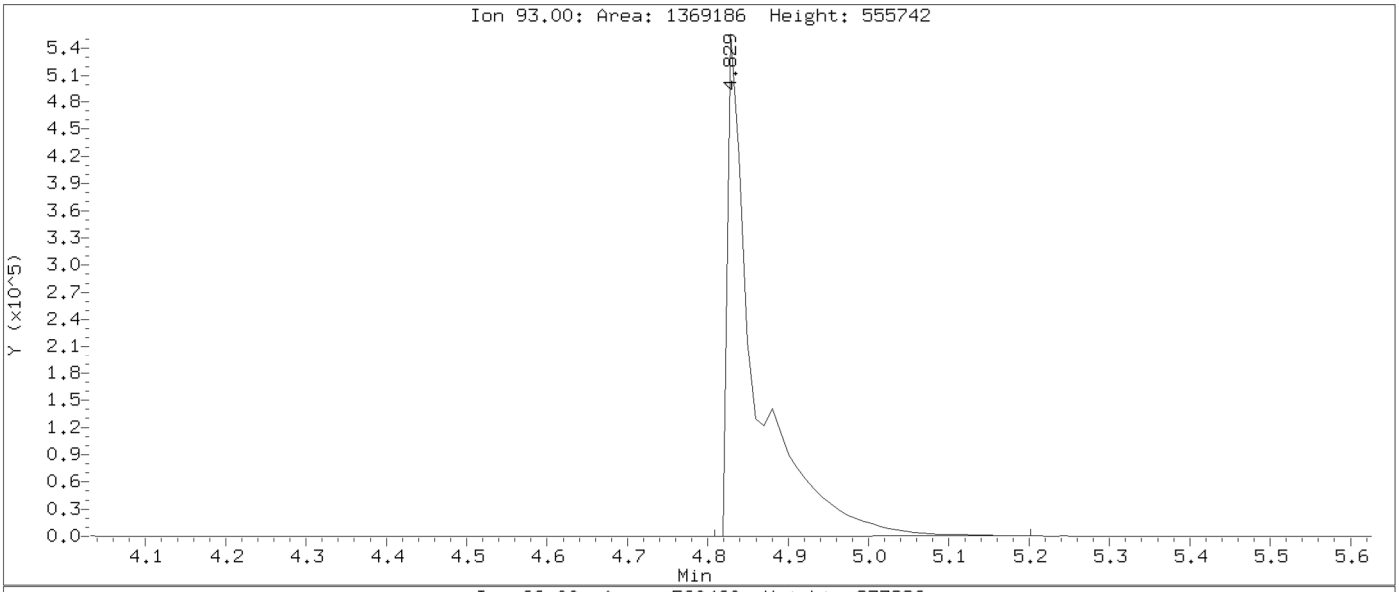
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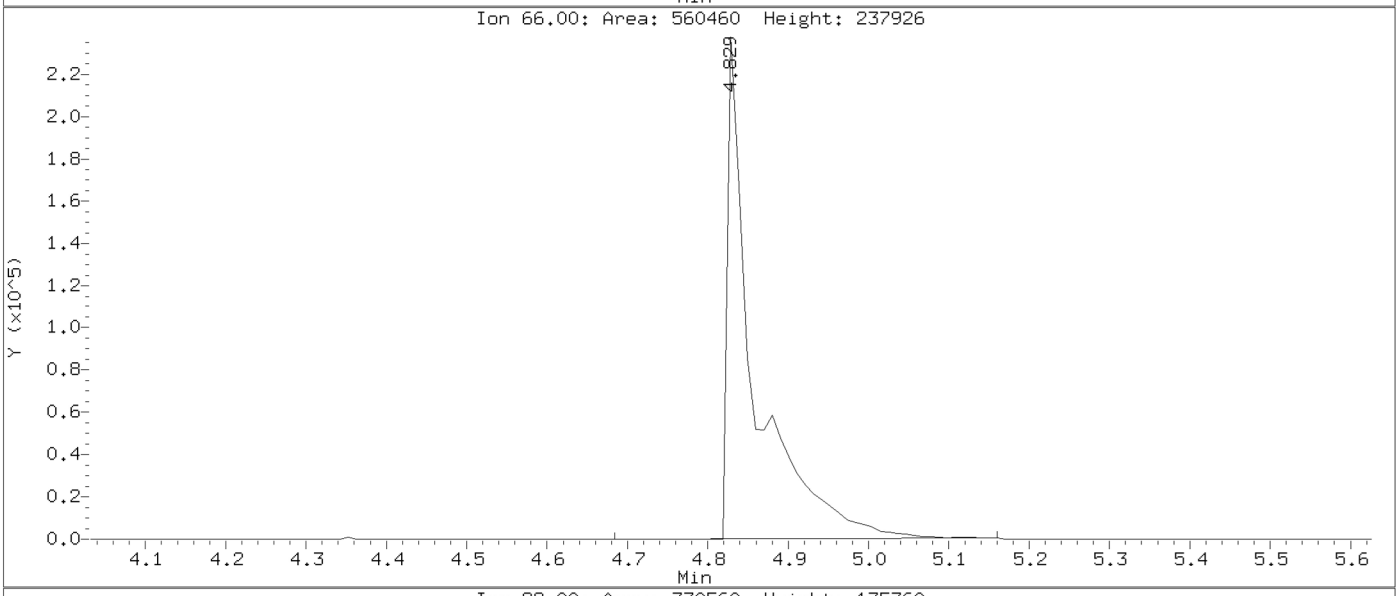


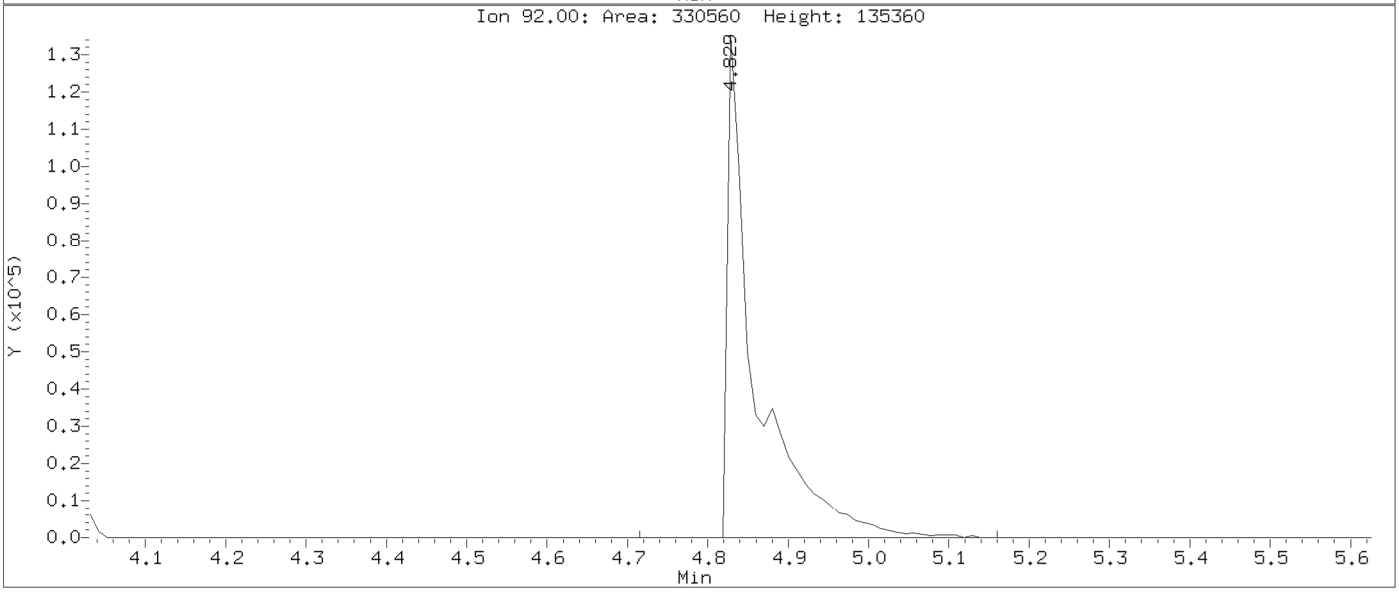
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Compound: 2-Picoline
CAS Number: 109-06-8

AFTER MANUAL INTEGRATION



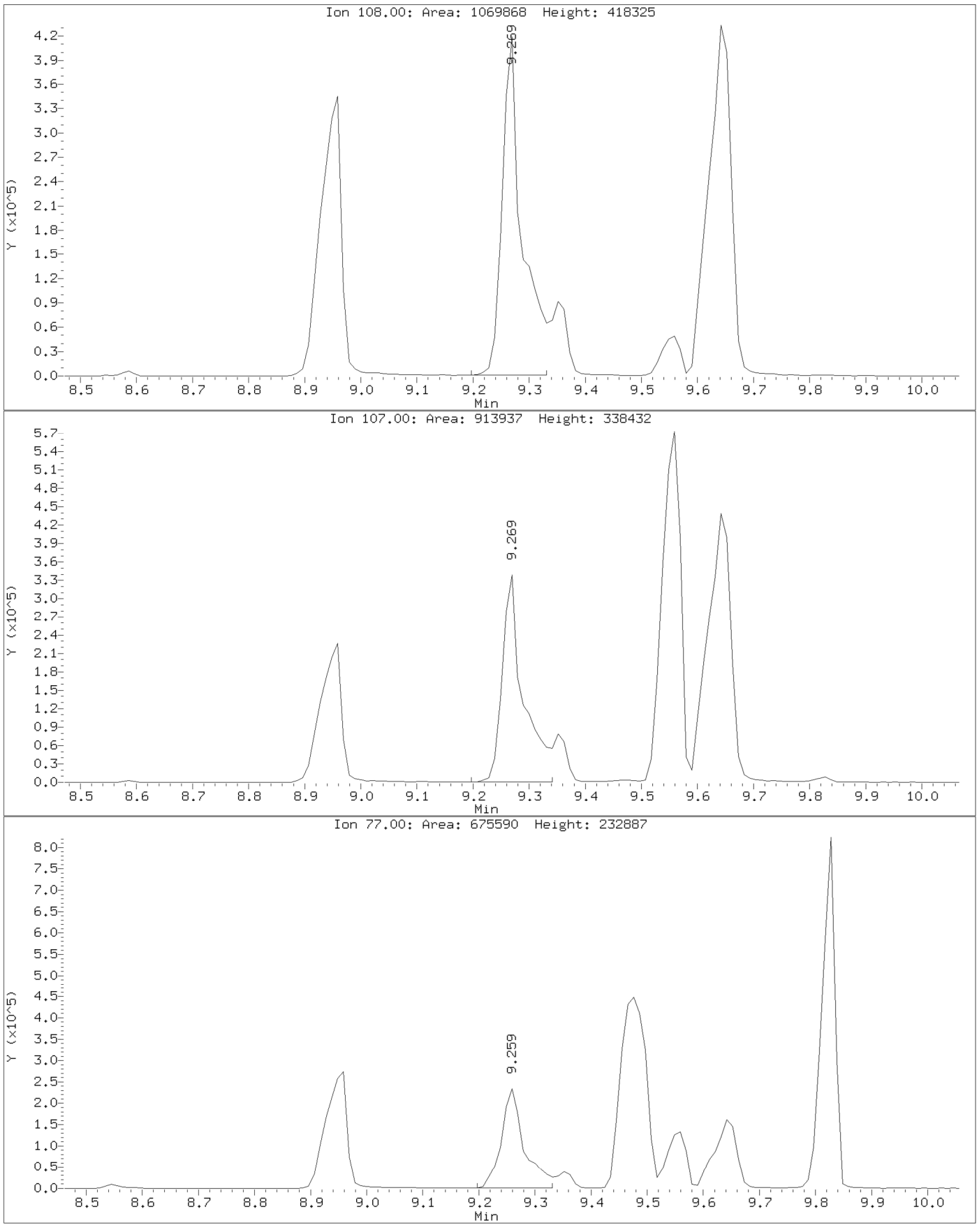




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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

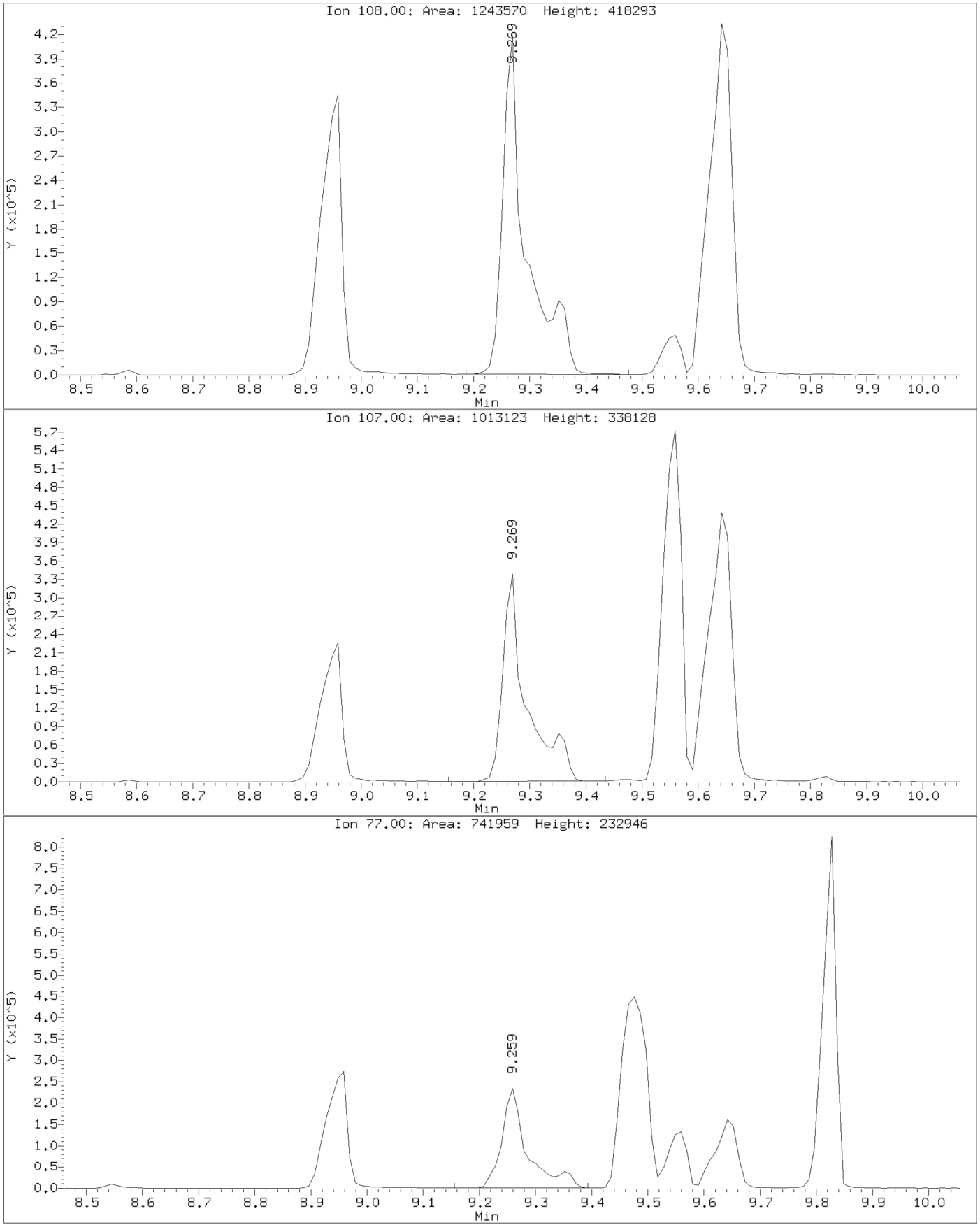
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Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

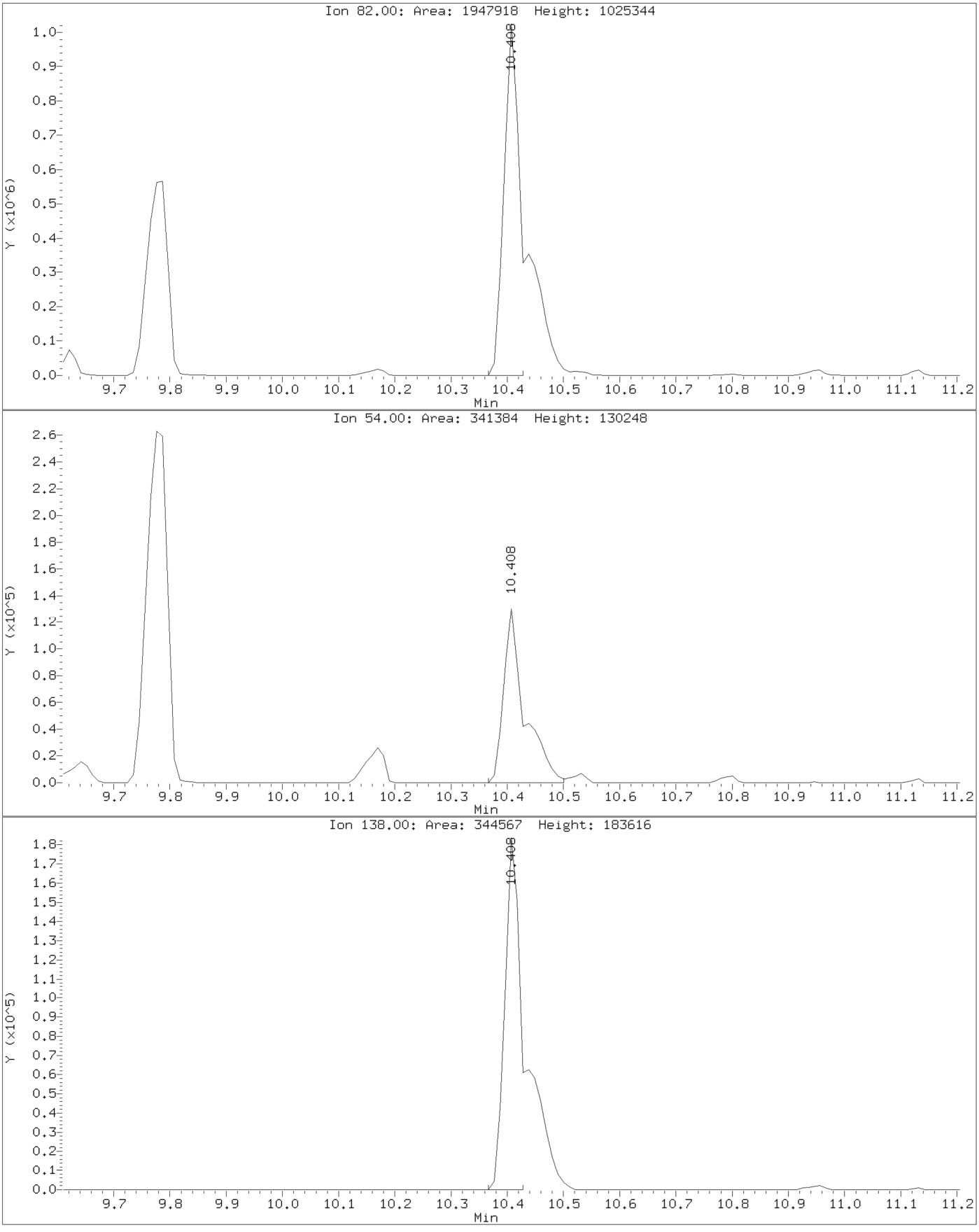
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Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: Isophorone
CAS Number: 78-59-1

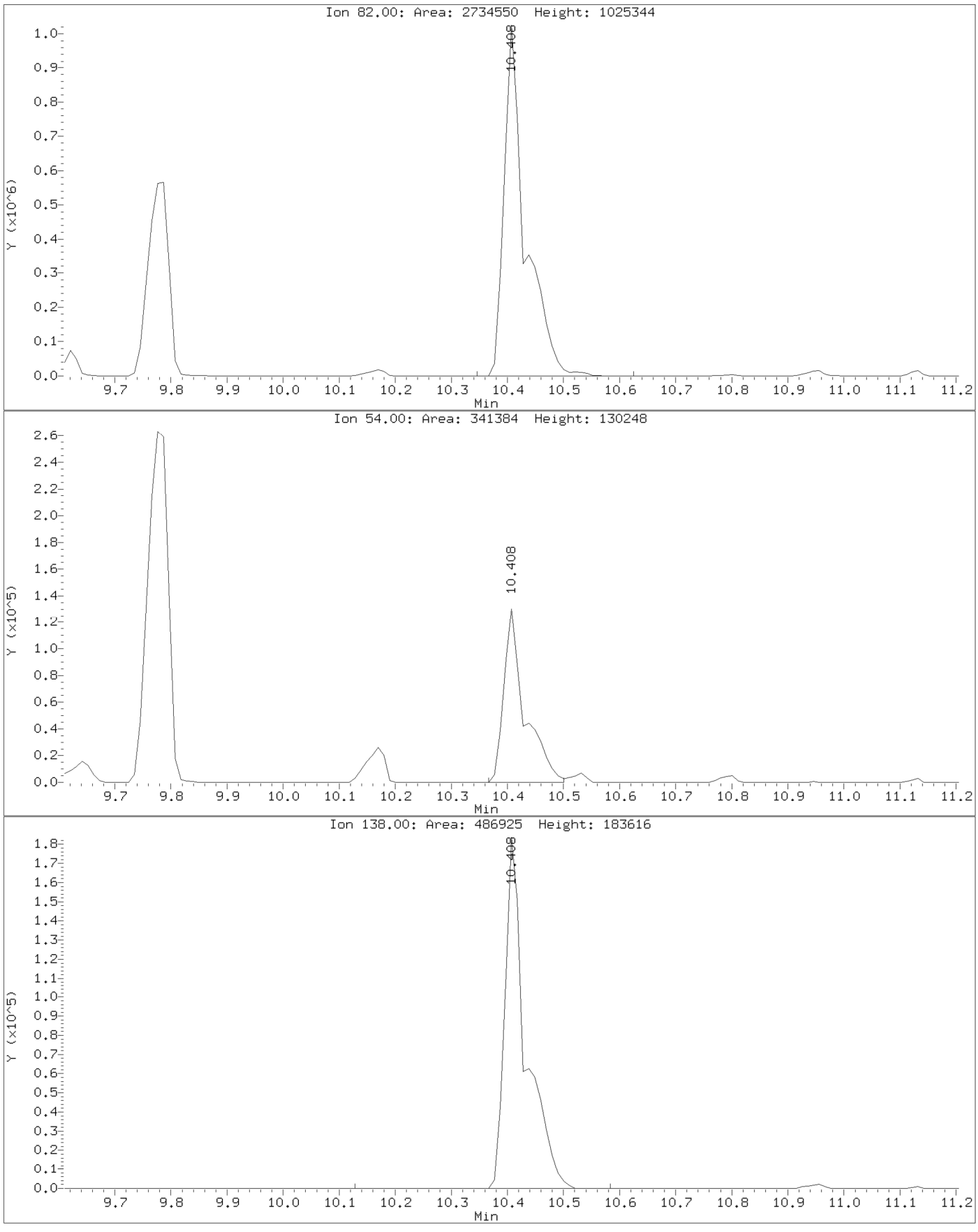
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Client Sample ID:

Compound: Isophorone
CAS Number: 78-59-1

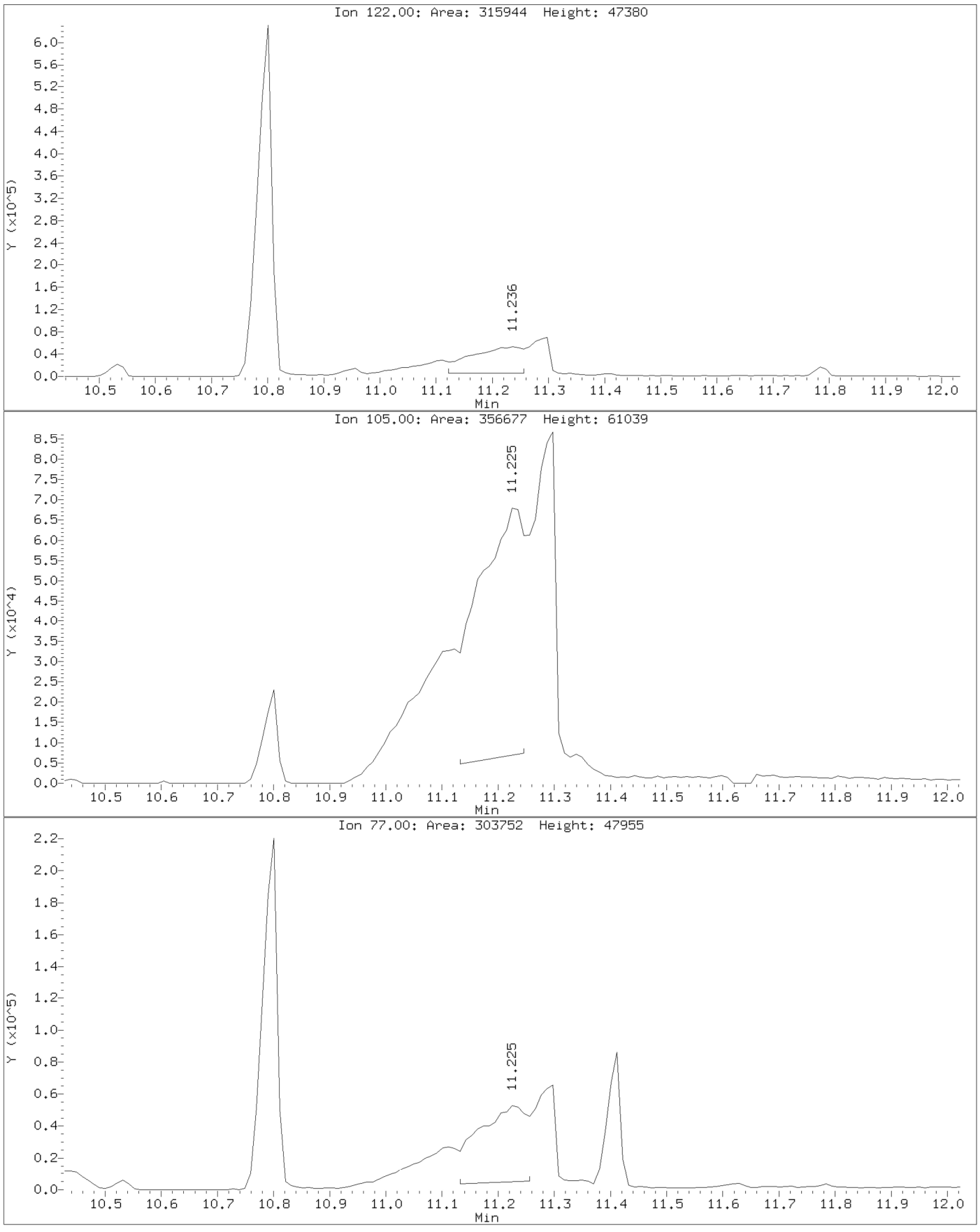
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Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

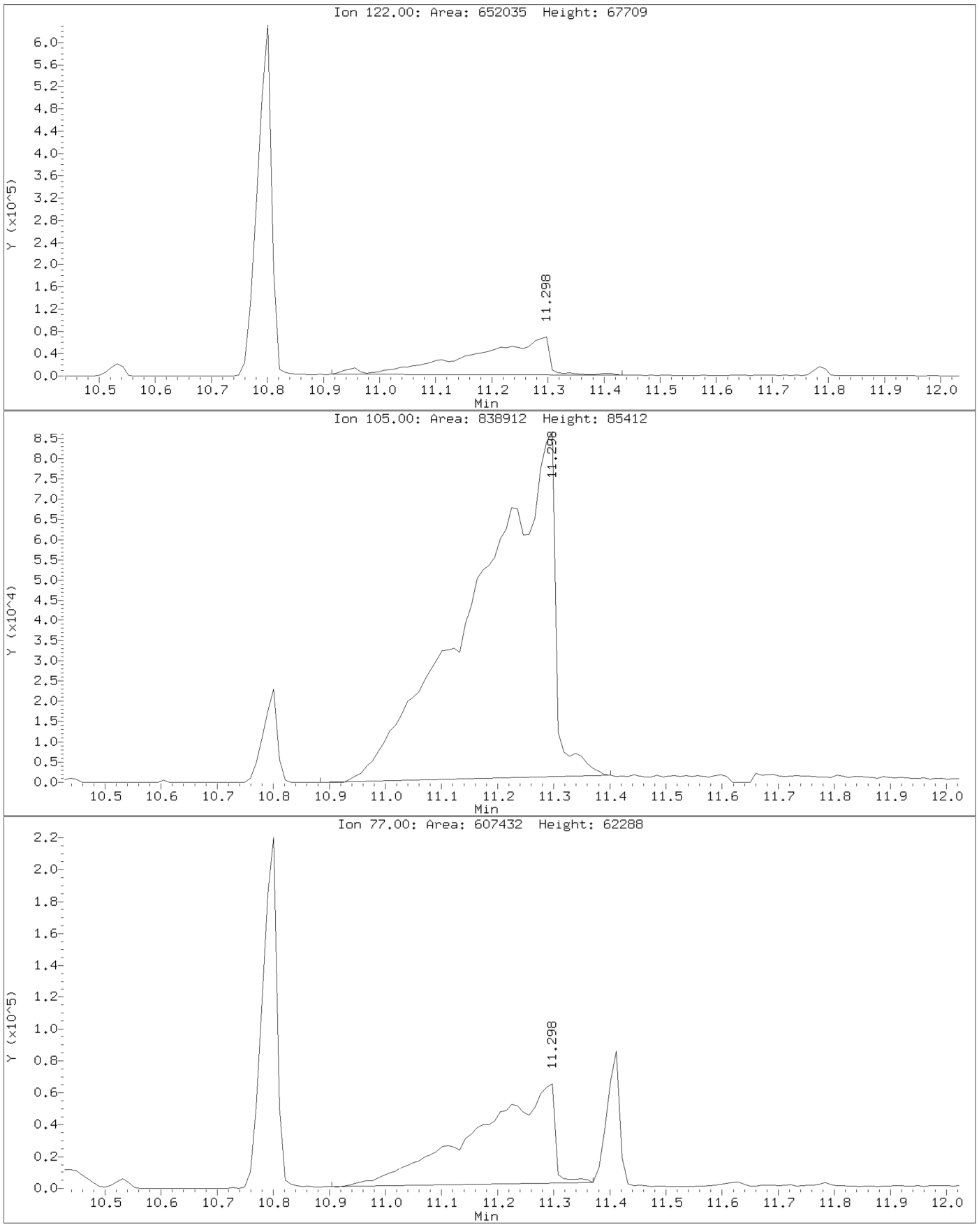
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Client Sample ID:

Compound: Benzoic acid
CAS Number: 65-85-0

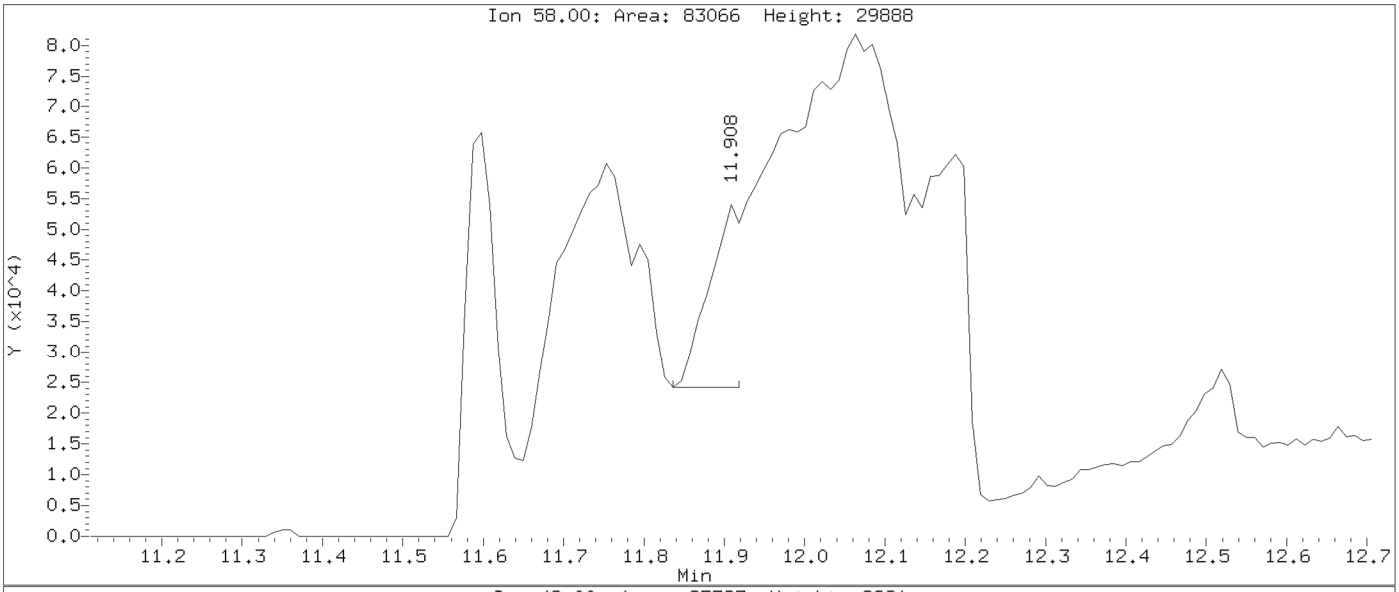
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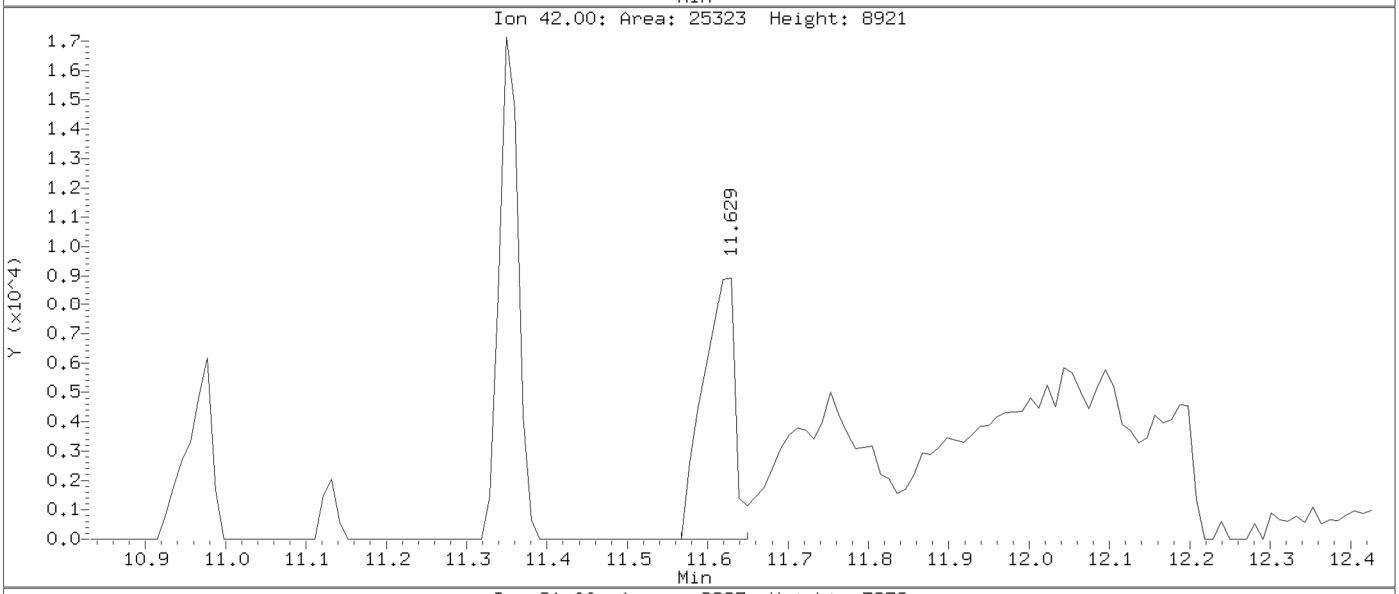


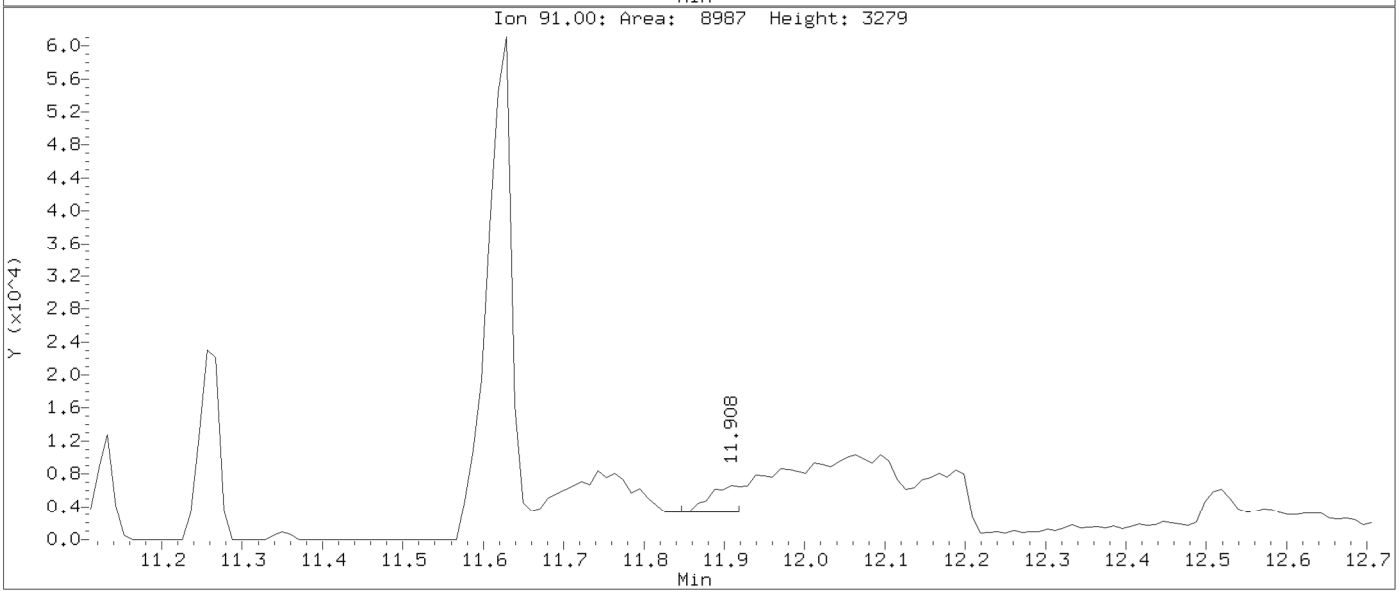
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Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

BEFORE MANUAL INTEGRATION



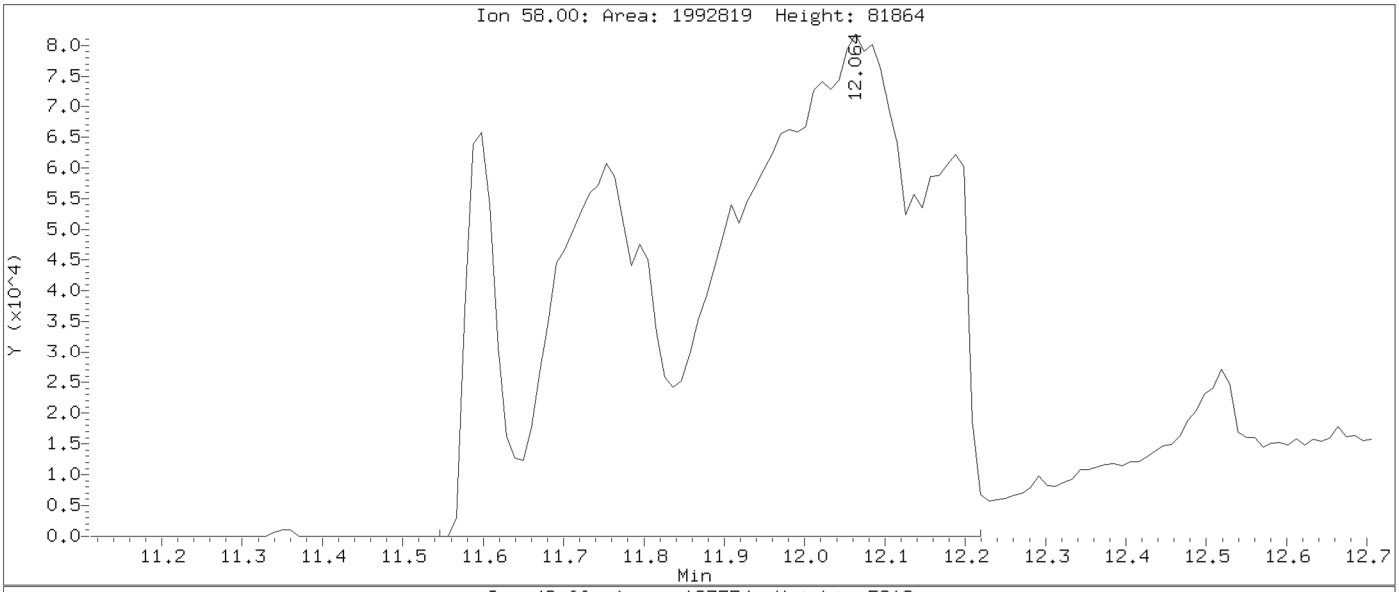


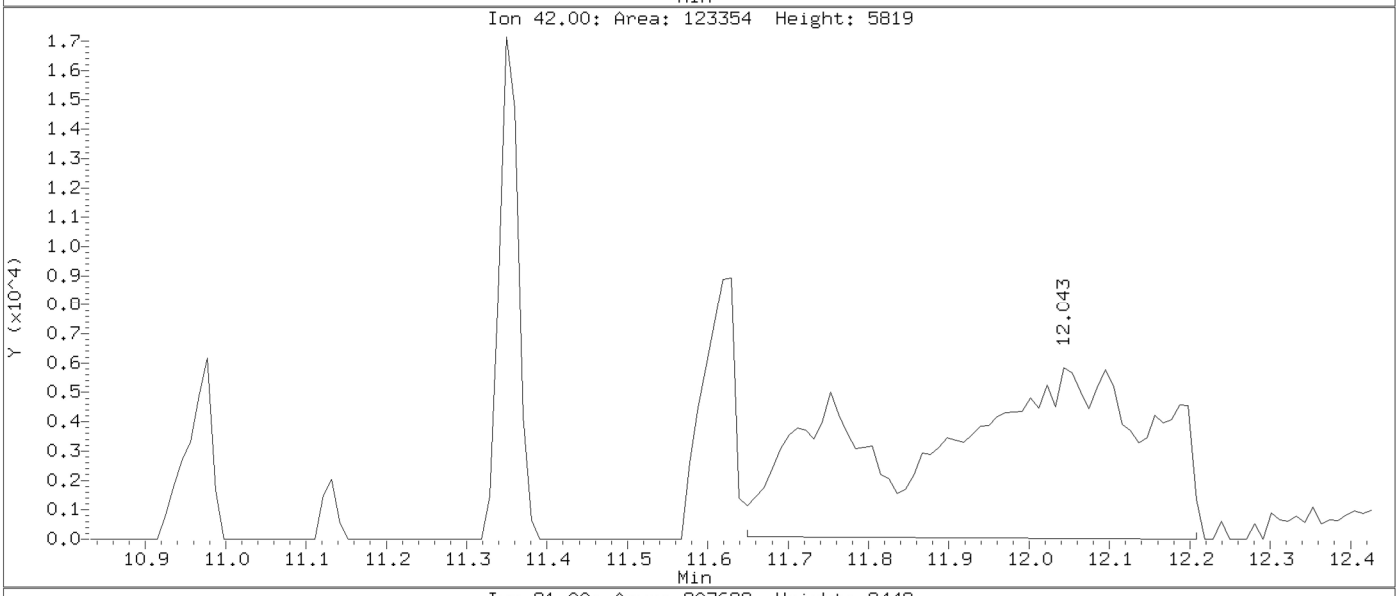


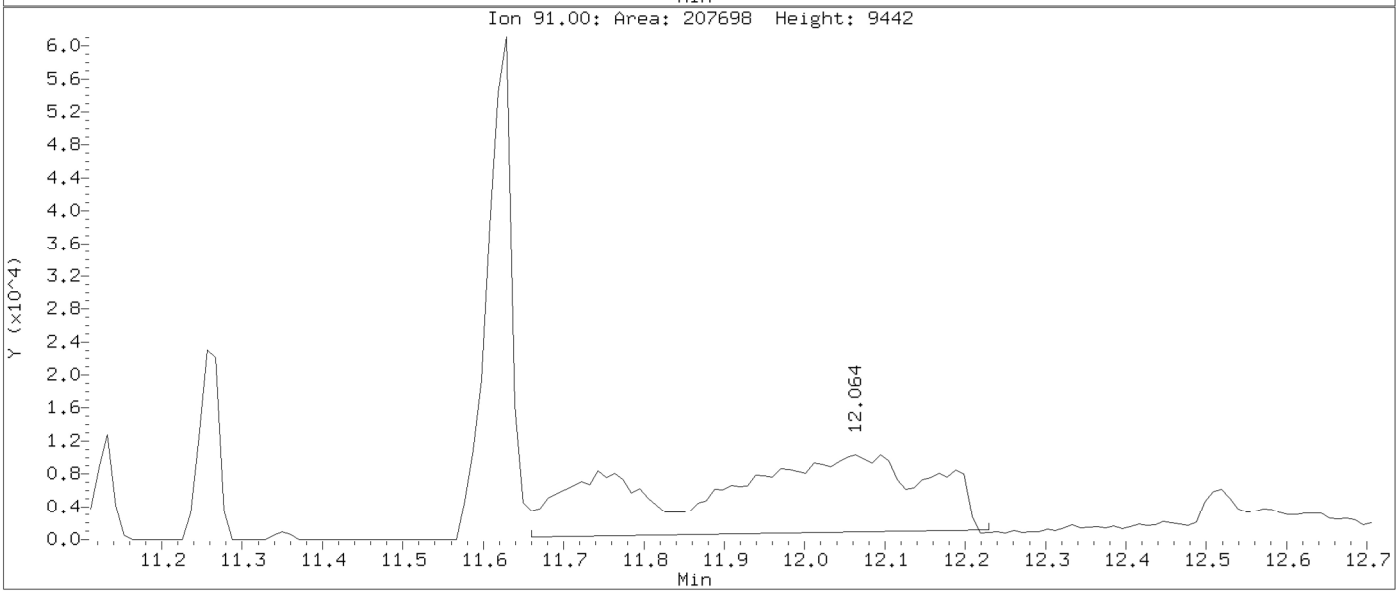
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Client Sample ID:

Compound: A,A-Dimethylphenethylamine
CAS Number: 122-09-8

AFTER MANUAL INTEGRATION



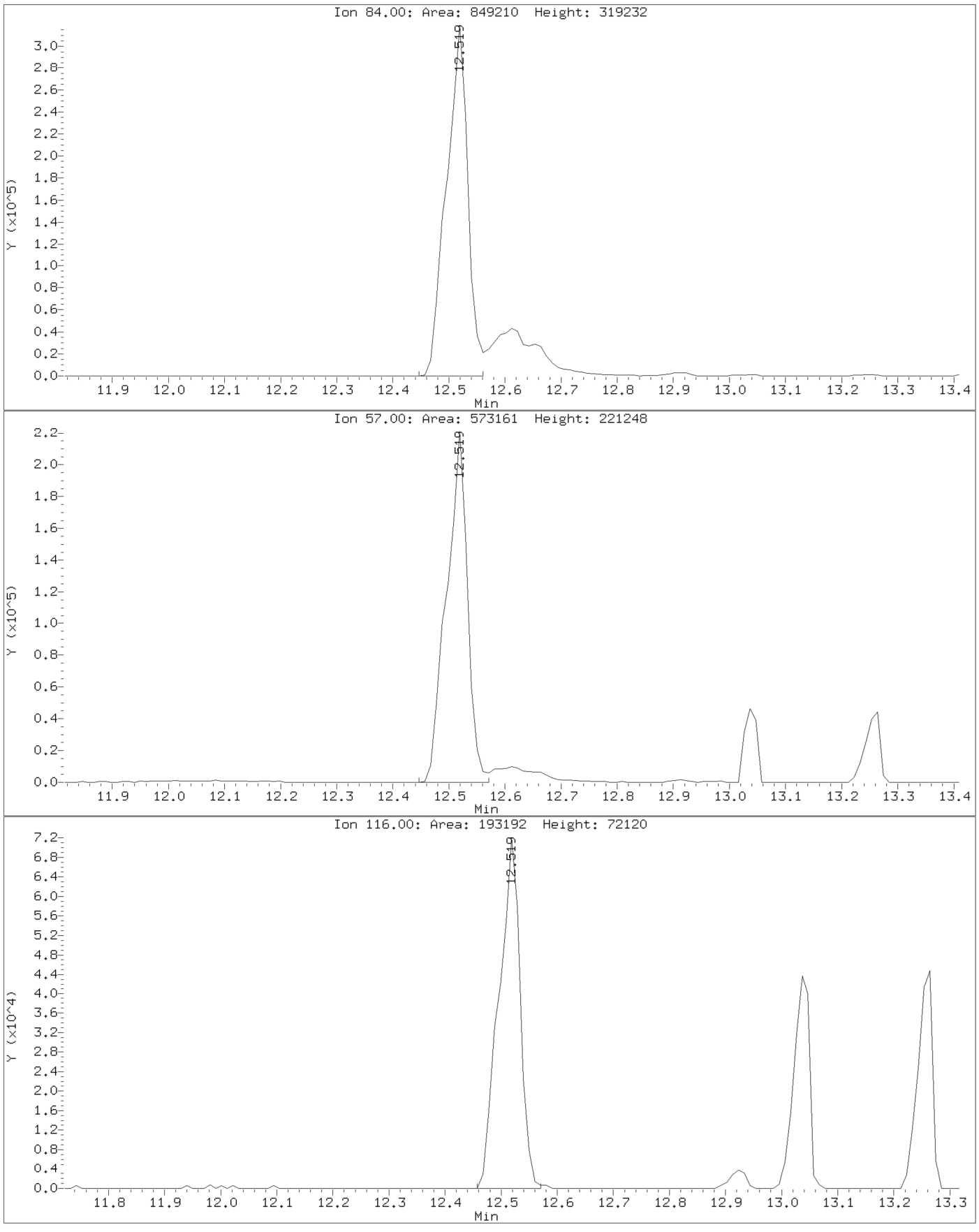




BEFORE MANUAL INTEGRATION

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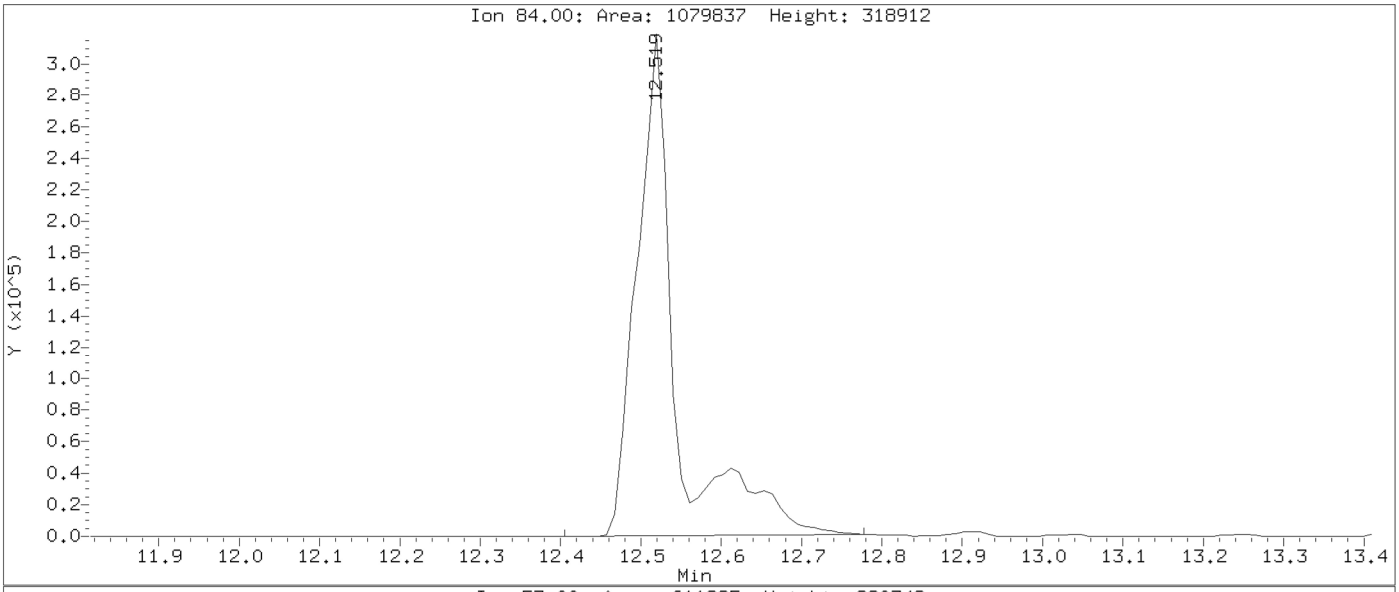
Compound: N-Nitroso-Di-N-Butylamine
CAS Number: 924-16-3

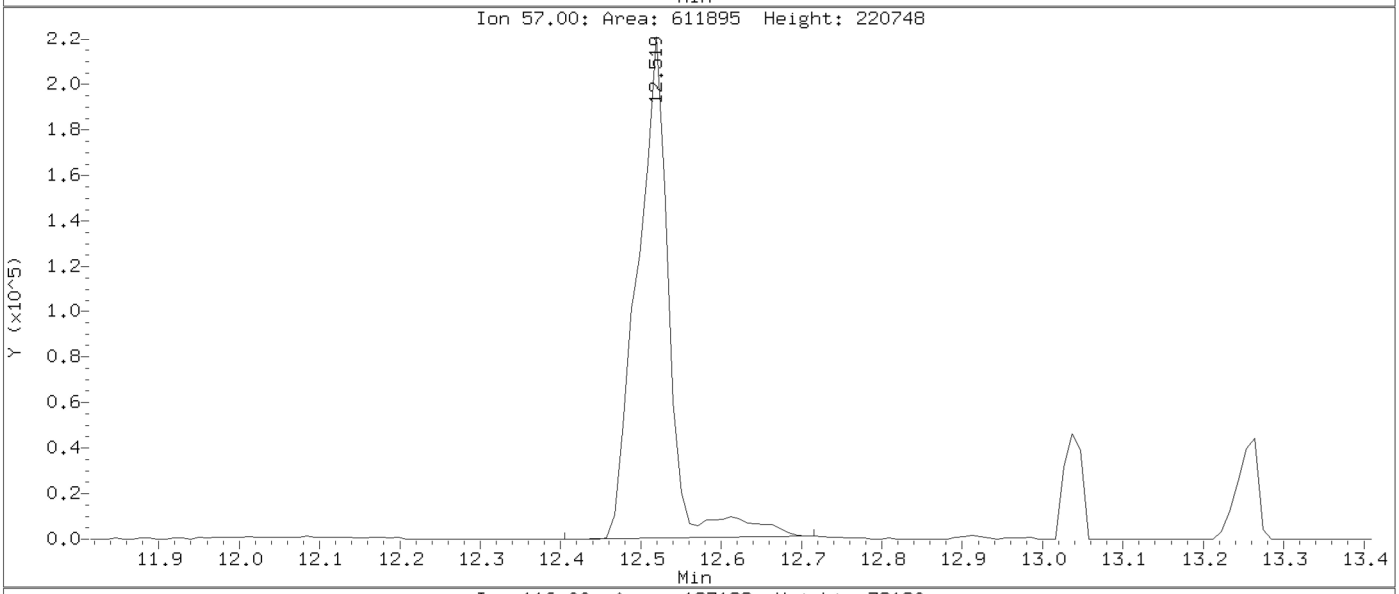


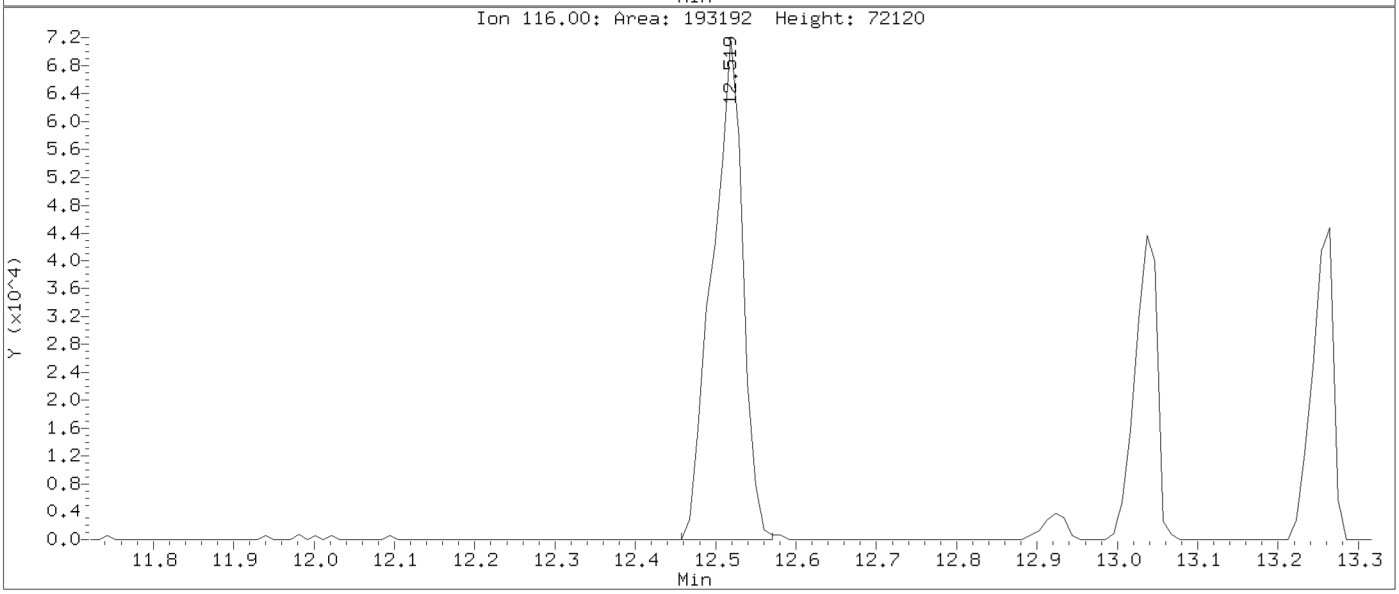
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Instrument: gcms-u.i
Client Sample ID:

Compound: N-Nitroso-Di-N-Butylamine
CAS Number: 924-16-3

AFTER MANUAL INTEGRATION



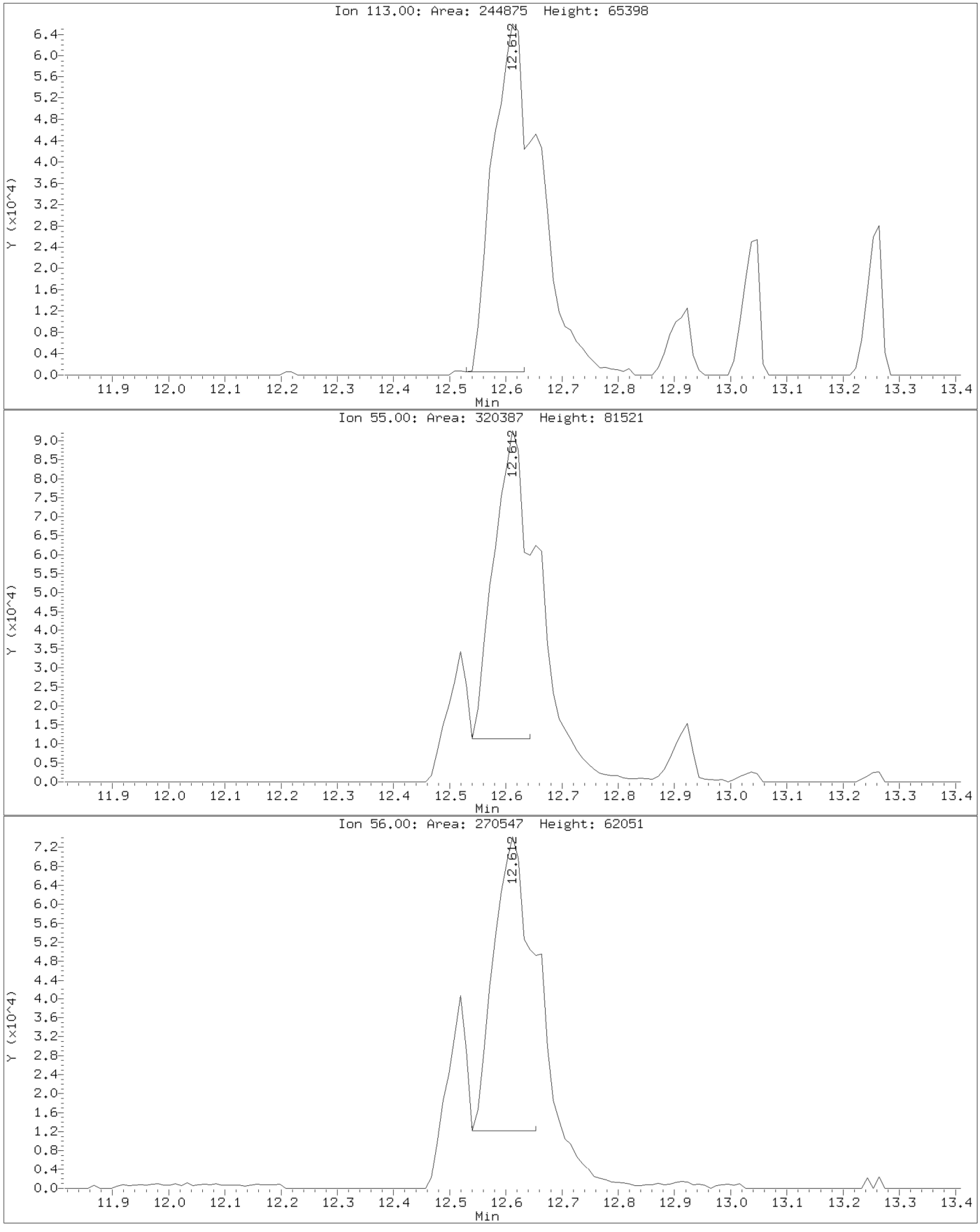




Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6205.D
Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: Caprolactam
CAS Number: 105-60-2

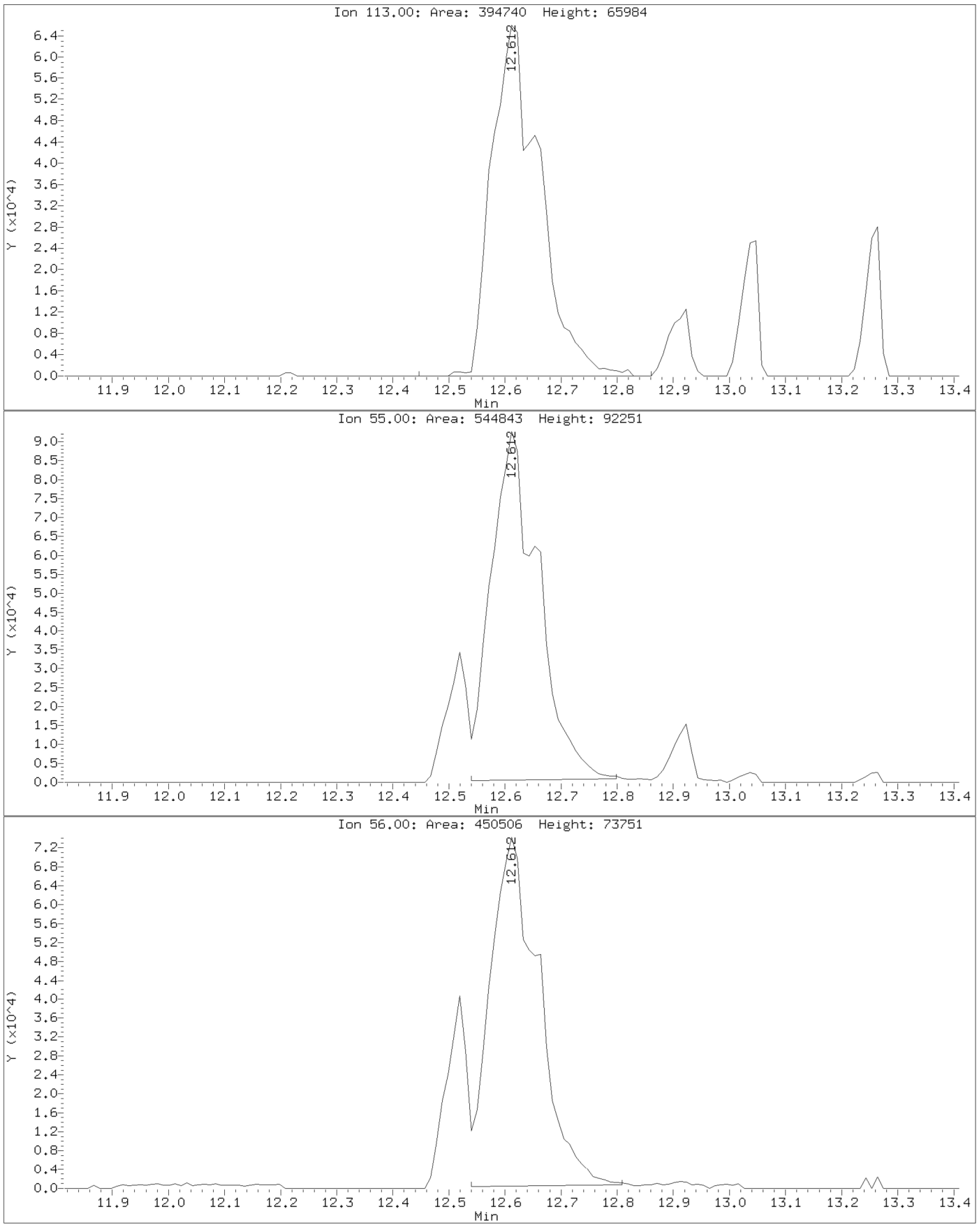
BEFORE MANUAL INTEGRATION



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Instrument: gcms-u.i
Client Sample ID:

Compound: Caprolactam
CAS Number: 105-60-2

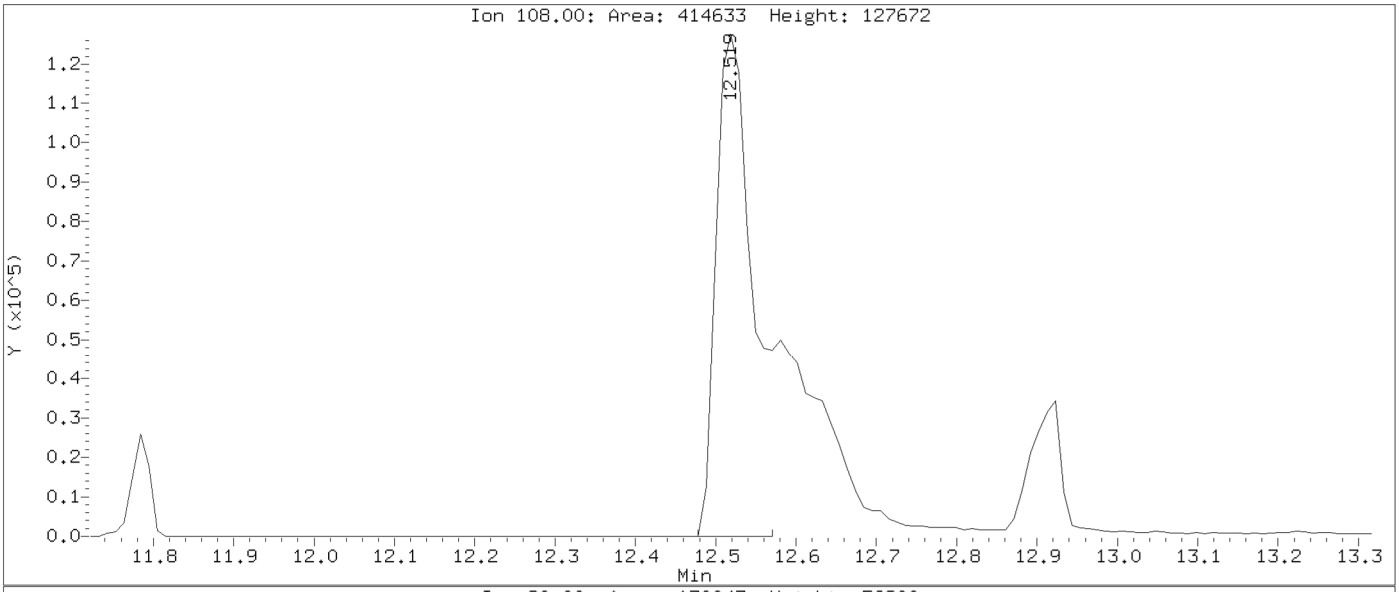
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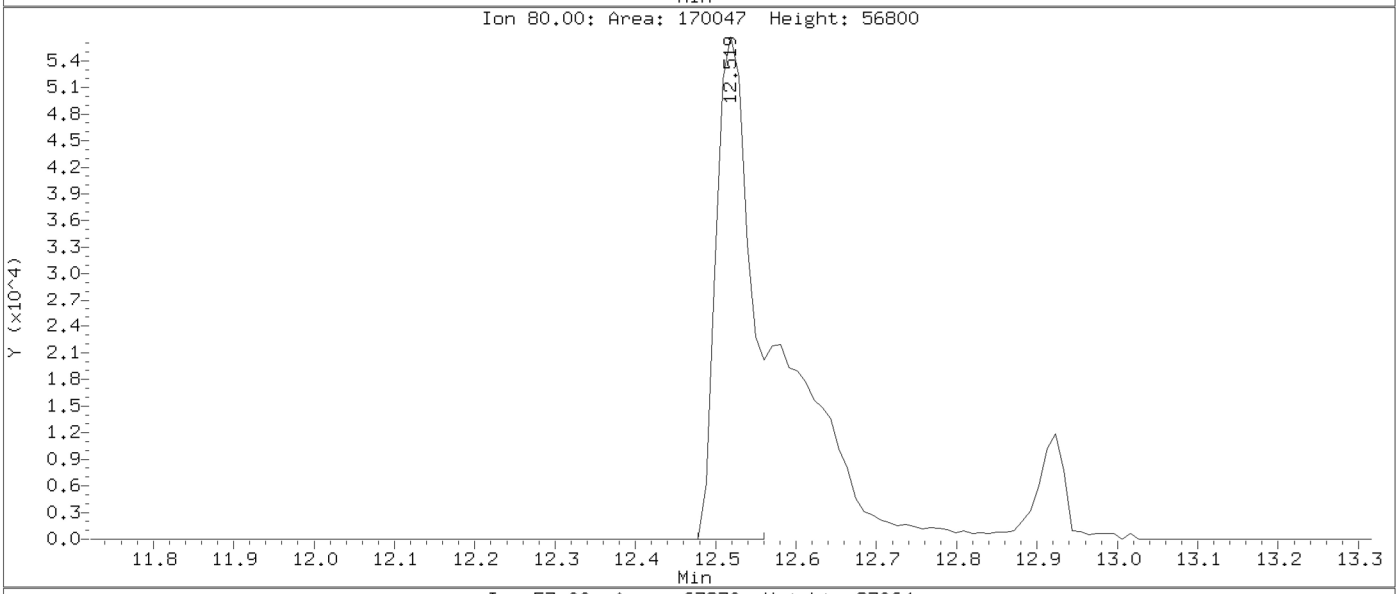


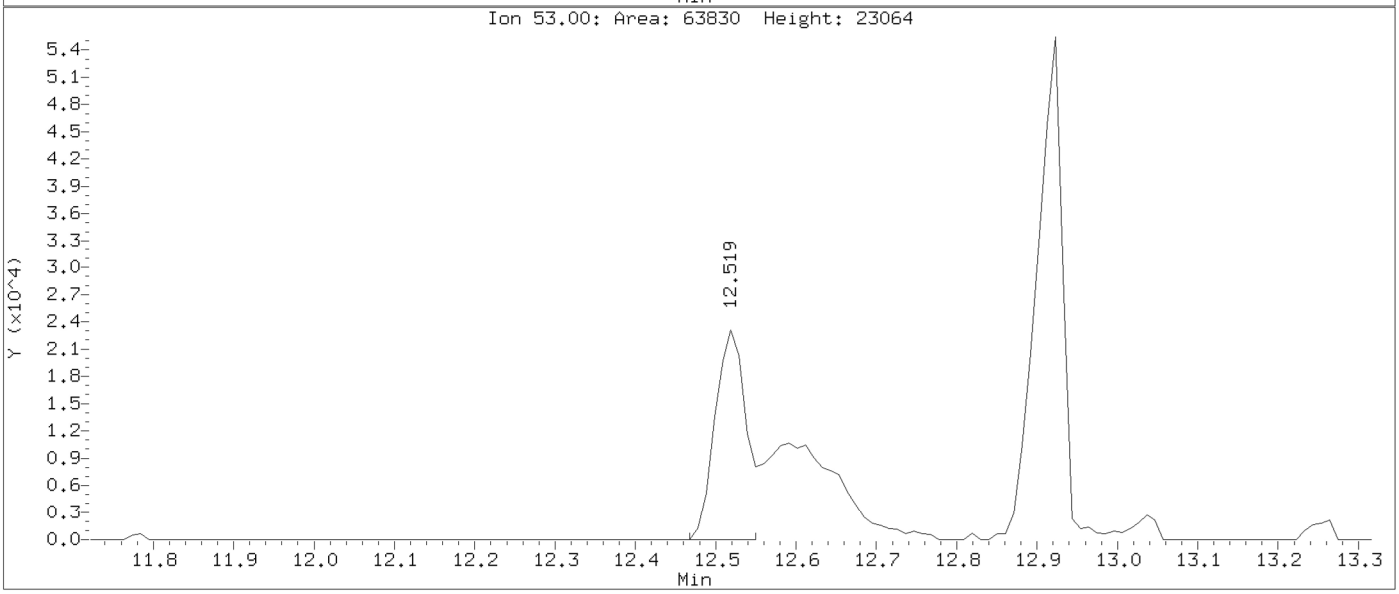
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Injection Date: 30-JUN-2014 13:49
Instrument: gcms-u.i
Client Sample ID:

Compound: p-Phenylenediamine
CAS Number: 106-50-3

BEFORE MANUAL INTEGRATION



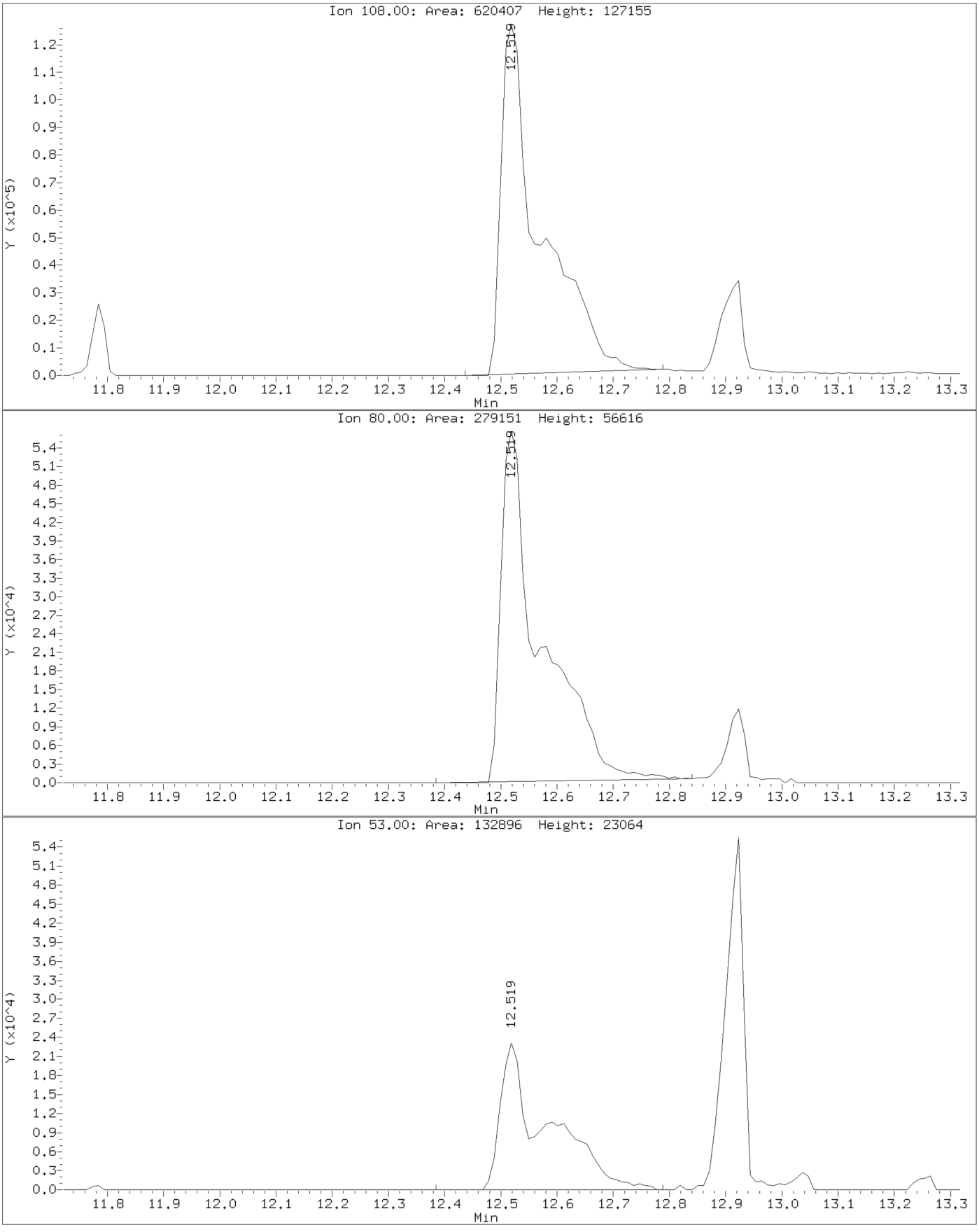




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Instrument: gcms-u.i
Client Sample ID:

Compound: p-Phenylenediamine
CAS Number: 106-50-3

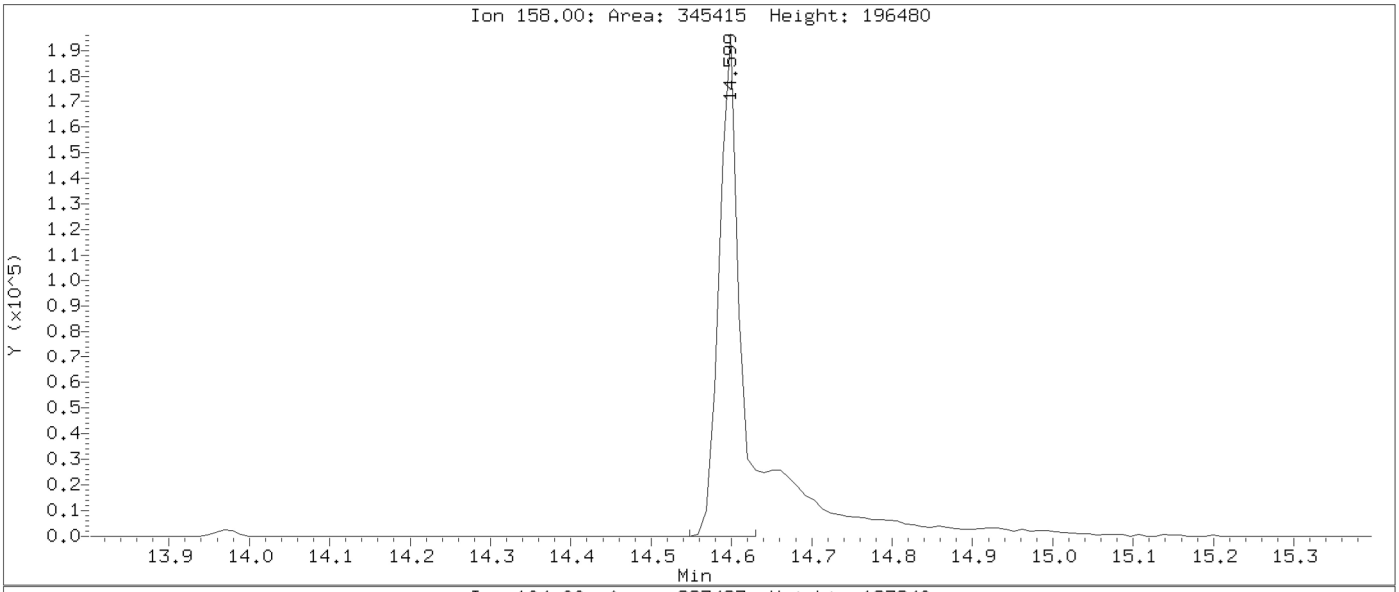
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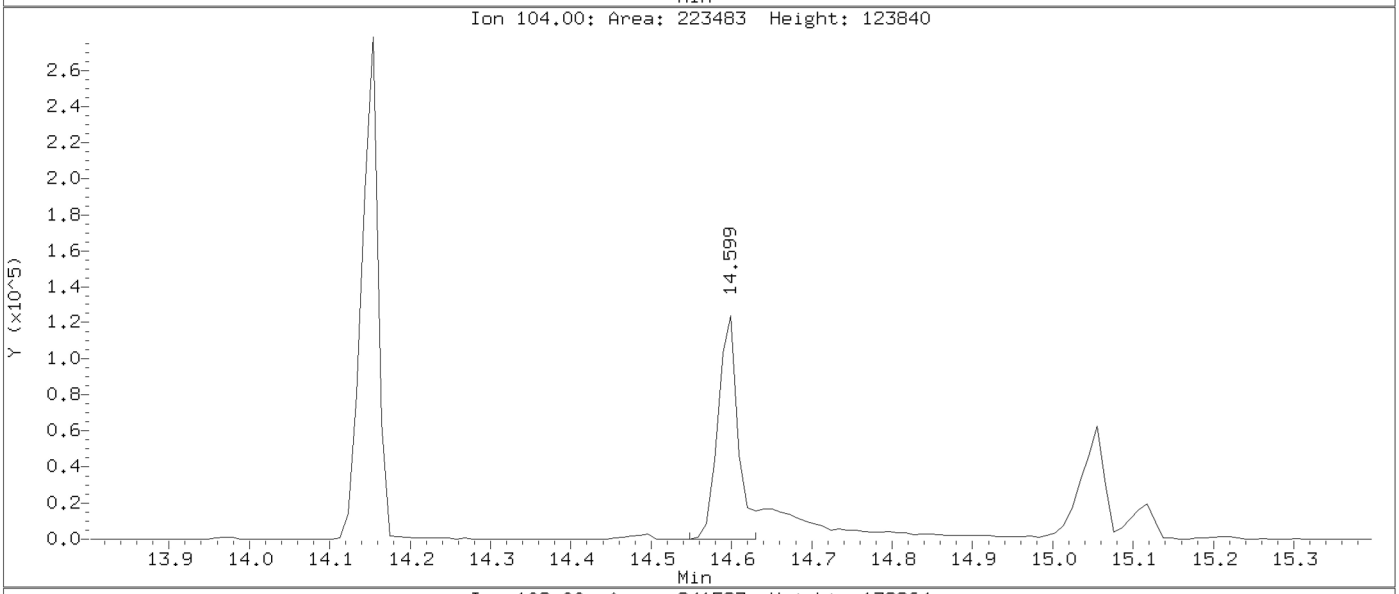


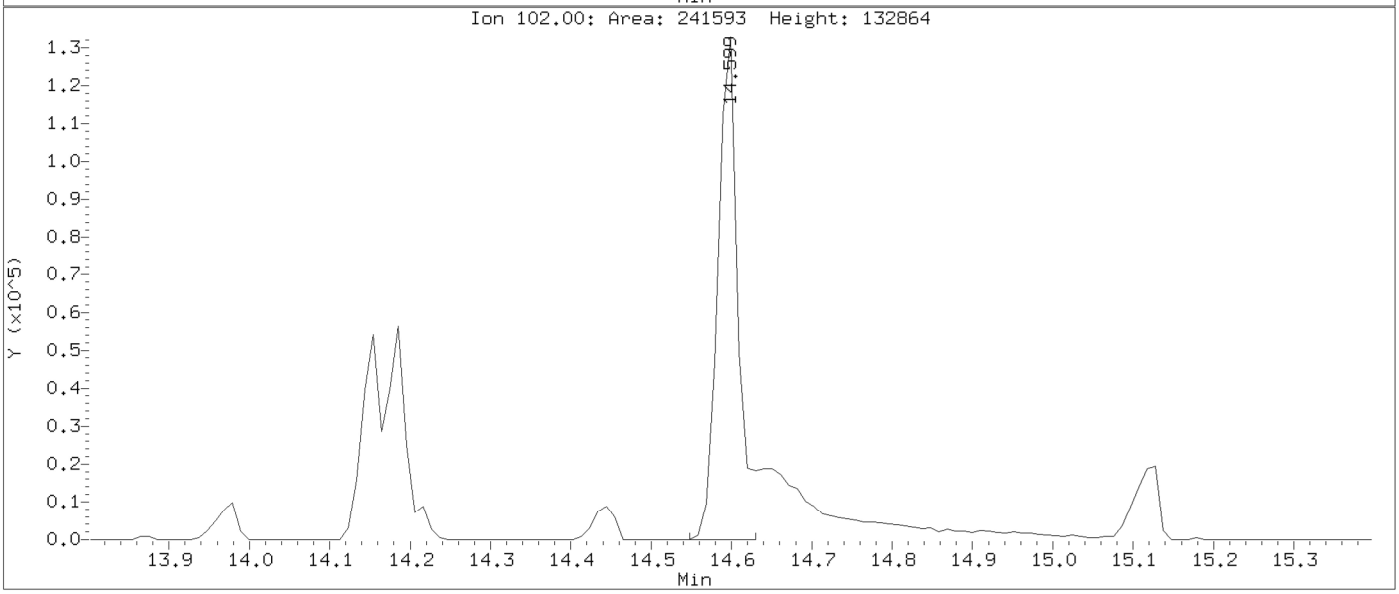
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Client Sample ID:

Compound: 1,4-Naphthoquinone
CAS Number: 130-15-4

BEFORE MANUAL INTEGRATION



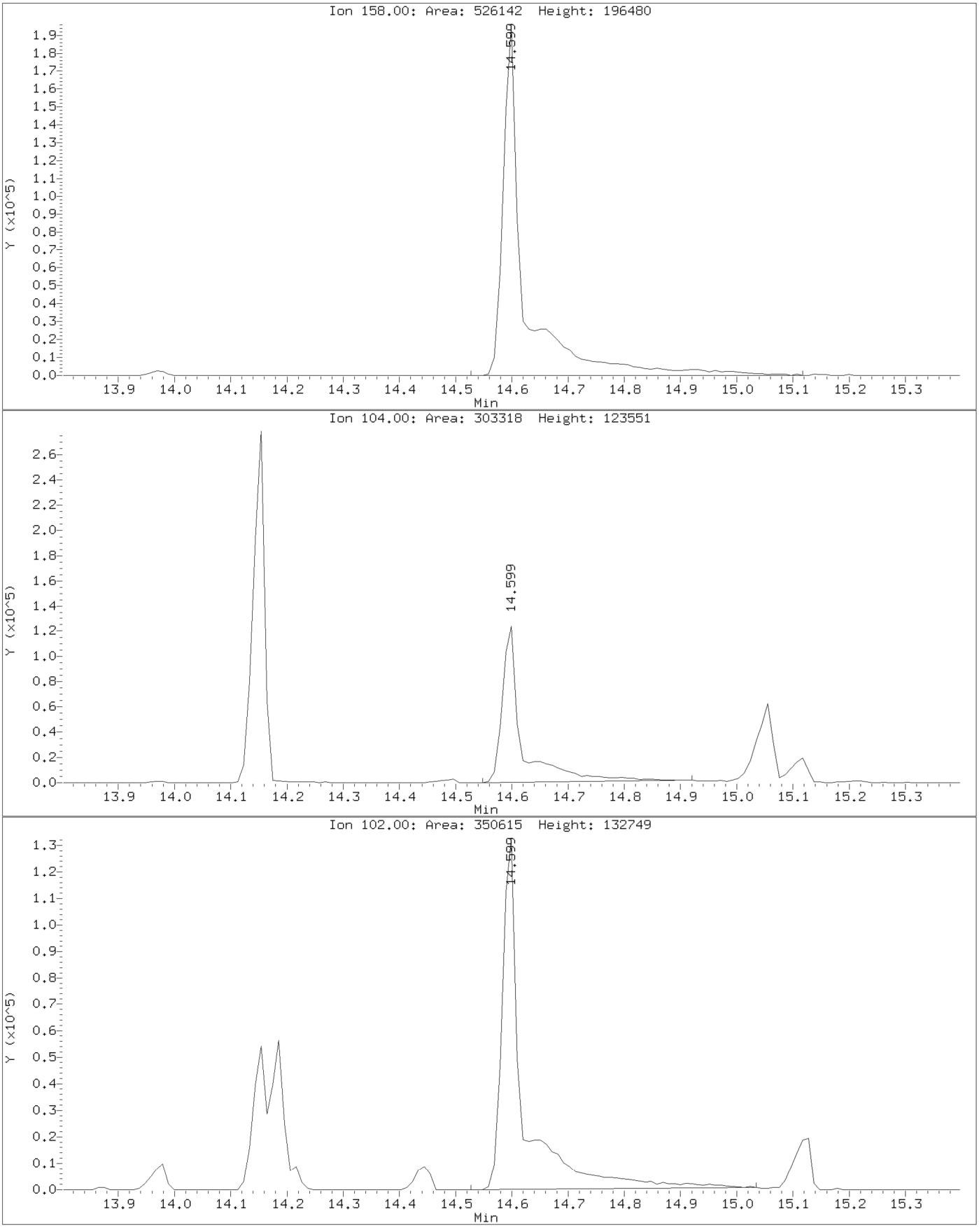




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Client Sample ID:

Compound: 1,4-Naphthoquinone
CAS Number: 130-15-4

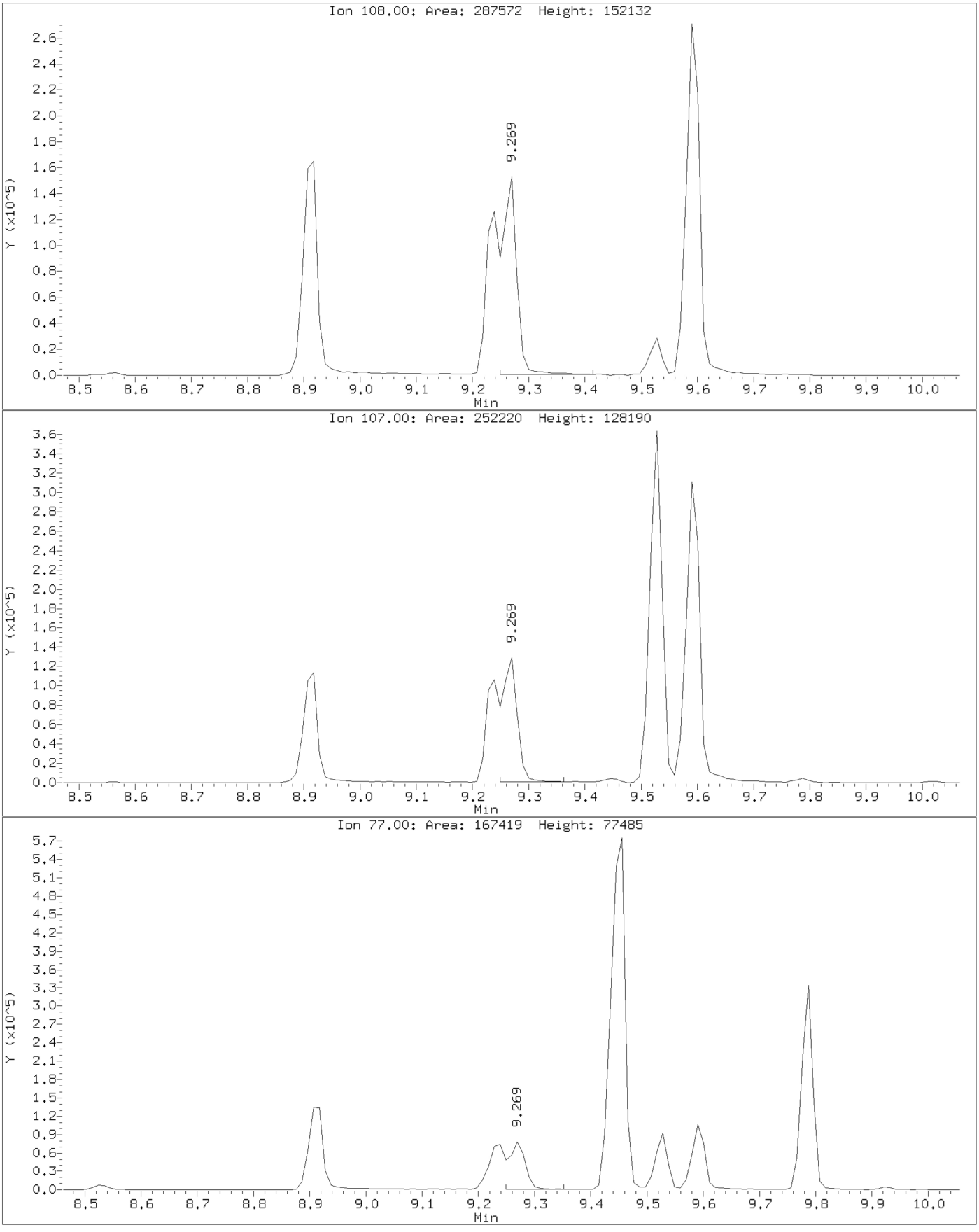
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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

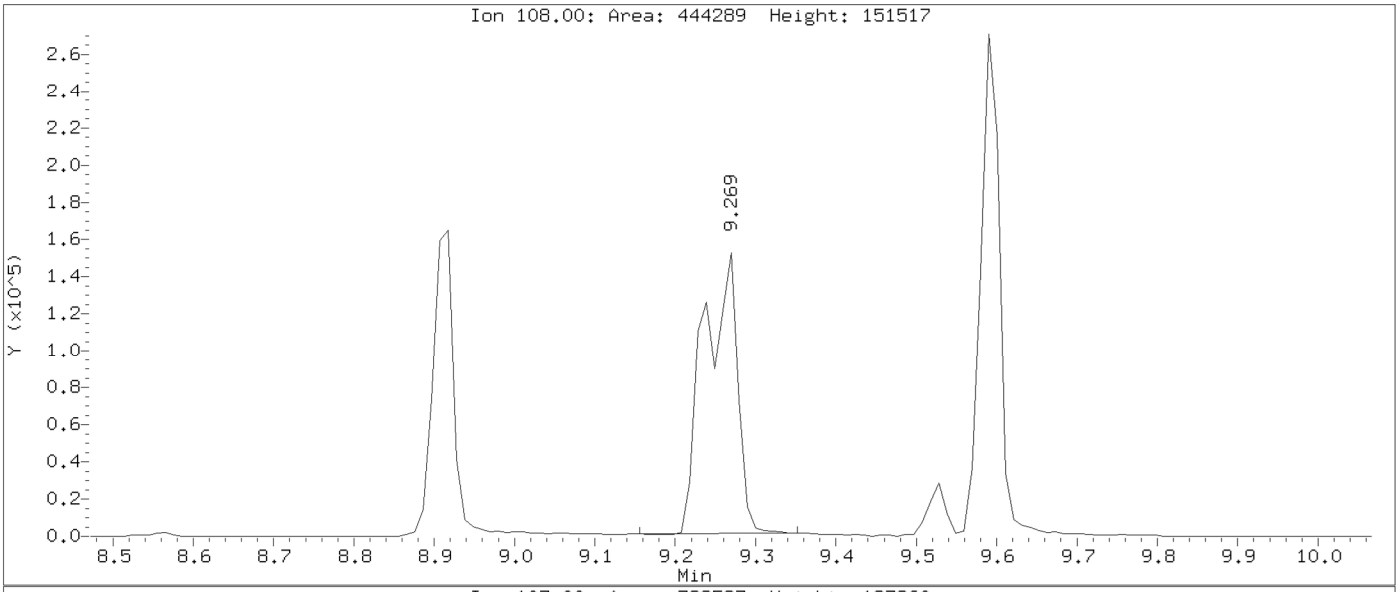
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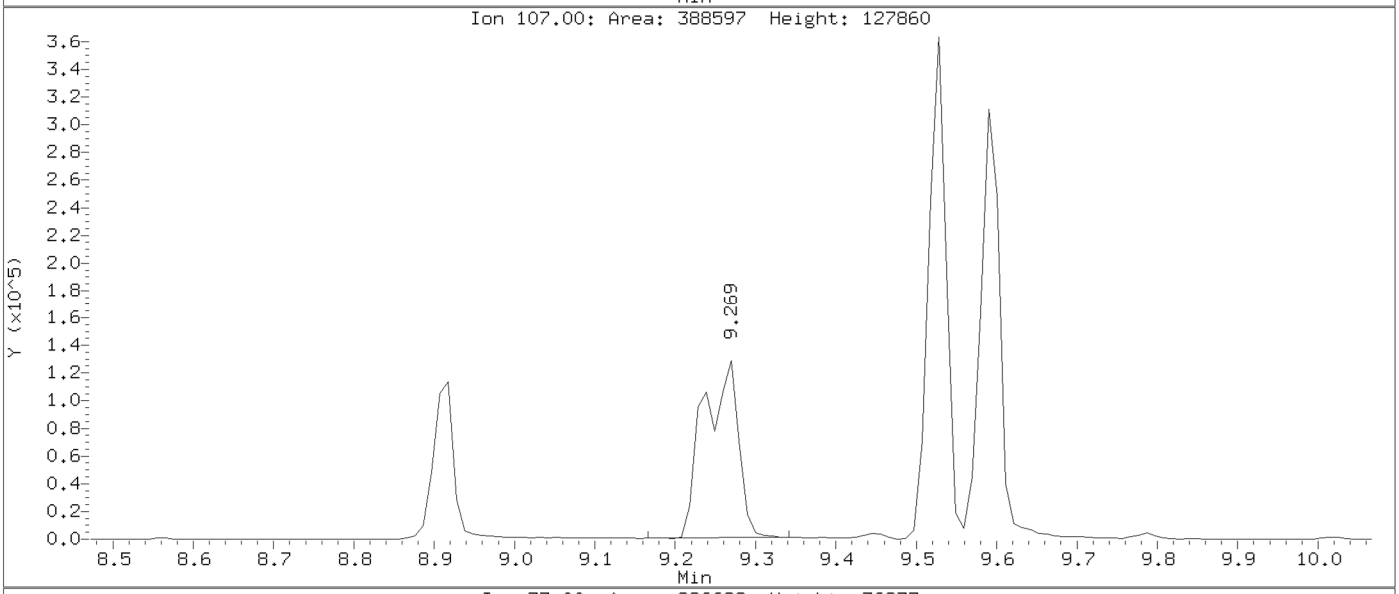


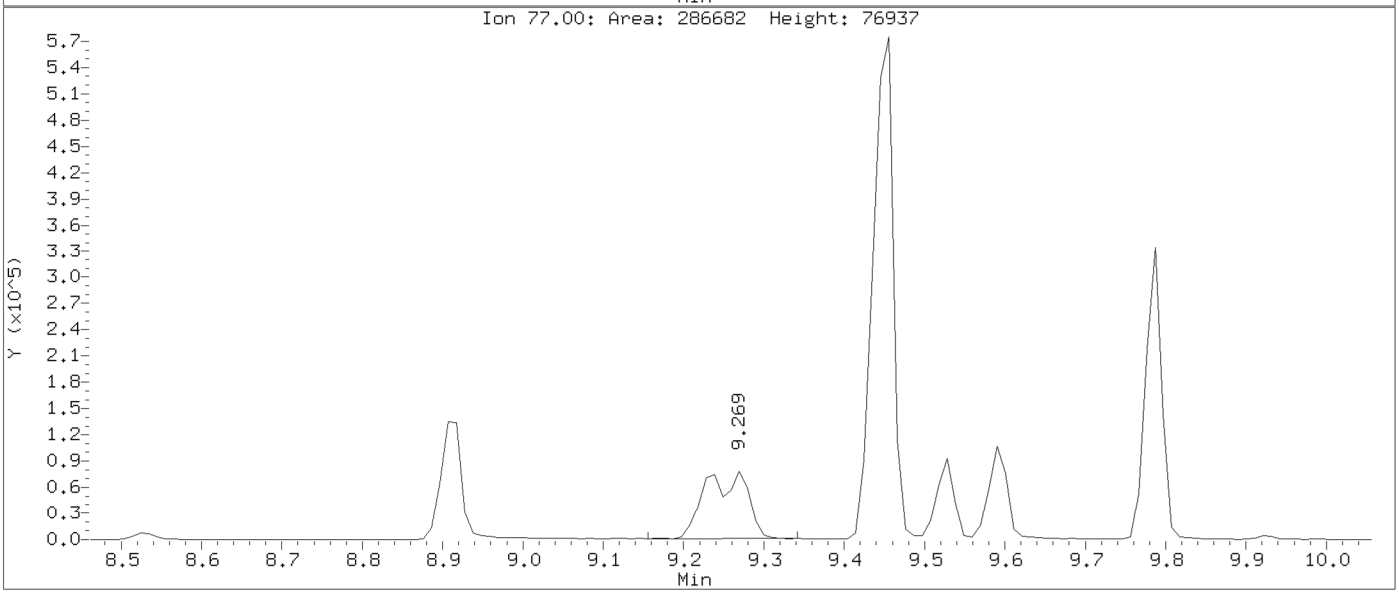
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Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION







Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Report Date: 30-Jun-2014 15:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Lab Smp Id: WG145667-8
Inj Date : 30-JUN-2014 14:32 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145667-8
Misc Info : WG145667,WG145667,WG144667-4
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U063014.b\U8270C59.m
Meth Date : 30-Jun-2014 14:34 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 13:49 Cal File: U6205.D
Als bottle: 8 QC Sample: INDCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1	1,4-Dioxane	58	3.059	3.121	(0.270)	134346	52.7784	52.8	
3	Pyridine	79	3.556	3.607	(0.417)	579884	55.3483	55.3	
2	N-Nitrosodimethylamine	42	3.514	3.586	(0.412)	198772	48.8858	48.9	
5	2-Picoline	93	4.808	4.828	(0.564)	595819	63.0904	63.1(R)	
6	N-Nitrosomethylethylamine	88	5.046	5.077	(0.592)	247592	59.7981	59.8	
7	Methyl Methanesulfonate	80	5.615	5.677	(0.659)	282244	45.6906	45.7	
9	N-Nitrosodiethylamine	102	6.371	6.412	(0.747)	246599	60.1027	60.1(R)	
10	Ethyl Methanesulfonate	79	7.023	7.085	(0.824)	393134	51.2163	51.2	
11	Benzaldehyde	77	7.603	7.623	(0.892)	42611	39.3721	39.4(R)	
12	Aniline	93	7.861	7.902	(0.922)	781778	52.4896	52.5	
16	Bis(2-Chloroethyl)ether	93	8.048	8.089	(0.944)	457801	49.3759	49.4	
15	Phenol	94	7.954	7.996	(0.933)	600902	52.1494	52.1	
17	2-Chlorophenol	128	8.110	8.140	(0.951)	478038	50.3906	50.4	
18	1,3-Dichlorobenzene	146	8.400	8.430	(0.985)	529473	50.9024	50.9	
* 19	1,4-Dichlorobenzene-D4	152	8.524	8.544	(1.000)	315792	40.0000		
20	1,4-Dichlorobenzene	146	8.565	8.586	(1.005)	525968	49.8755	49.9	
21	1,2-Dichlorobenzene	146	8.876	8.896	(1.041)	493344	48.7822	48.8	
22	Benzyl alcohol	108	8.917	8.958	(1.046)	300098	48.0254	48.0	
24	Bis(2-Chloroisopropyl)ether	45	9.217	9.248	(1.081)	396784	35.3820	35.4	
25	2,2'-Oxybis(1-chloropropane)	45	9.217	9.248	(1.081)	396784	35.4192	35.4(R)	

Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Report Date: 30-Jun-2014 15:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	23 2-Methylphenol	108	9.269	9.269	(1.087)	444289	50.5984	50.6(M)	M9
	27 Acetophenone	105	9.455	9.476	(0.834)	1244671	100.587	100	
	32 Hexachloroethane	117	9.610	9.621	(1.127)	206550	49.5638	49.6	
	26 N-Nitrosopyrrolidine	100	9.424	9.507	(1.106)	270810	61.0373	61.0(R)	
	29 o-Toluidine	106	9.528	9.558	(1.118)	696467	59.0756	59.1	
	28 N-Nitrosomorpholine	56	9.497	9.558	(1.114)	303645	60.9849	61.0(R)	
	30 N-Nitroso-di-n-propylamine	70	9.528	9.589	(1.118)	306555	45.2032	45.2	
	31 3&4-Methylphenol	108	9.590	9.641	(1.125)	447490	49.8387	49.8	
	34 Nitrobenzene	77	9.786	9.828	(0.863)	474880	48.4562	48.4	
	35 N-Nitrosopiperidine	114	10.128	10.169	(0.893)	255544	59.9043	59.9	
	36 Isophorone	82	10.366	10.407	(0.914)	945834	49.5348	49.5	
	37 2-Nitrophenol	139	10.511	10.531	(0.927)	274813	51.5104	51.5	
	38 2,4-Dimethylphenol	107	10.759	10.800	(0.949)	481356	50.5183	50.5	
	40 Bis(2-Chloroethoxy)methane	93	10.946	10.976	(0.965)	713966	53.5935	53.6	
	39 O,O,O-Triethylphosphorothioat	198	10.925	10.956	(0.963)	232089	56.1835	56.2	
	41 2,4-Dichlorophenol	162	11.101	11.132	(0.979)	430086	52.0400	52.0	
	43 1,2,4-Trichlorobenzene	180	11.246	11.266	(0.992)	408496	50.1294	50.1	
*	44 Naphthalene-D8	136	11.339	11.359	(1.000)	1265713	40.0000		
	42 Benzoic acid	122	11.163	11.297	(0.984)	233726	54.4054	54.4(Q)	
	45 Naphthalene	128	11.380	11.411	(1.004)	1223732	49.8516	49.8	
	48 Hexachloropropene	213	11.629	11.639	(1.026)	309779	54.3674	54.4	
	47 2,6-Dichlorophenol	162	11.608	11.618	(1.024)	399952	55.4232	55.4	
	46 4-Chloroaniline	127	11.598	11.628	(1.023)	528031	52.2773	52.3	
	50 Hexachlorobutadiene	225	11.774	11.784	(1.038)	241378	49.0564	49.0	
	53 N-Nitroso-Di-N-Butylamine	84	12.488	12.519	(1.101)	426782	60.2965	60.3(R)	
	52 Caprolactam	113	12.488	12.612	(1.101)	136016	50.2813	50.3(Q)	
	55 Isosafrole	162	12.902	12.933	(1.138)	374968	52.8205	52.8	
	56 2-Methylnaphthalene	142	13.016	13.046	(1.148)	902850	50.5657	50.6	
	54 4-Chloro-3-Methylphenol	107	12.871	12.922	(1.135)	428771	54.8194	54.8(Q)	
	57 1-Methylnaphthalene	142	13.243	13.264	(1.168)	839718	50.4078	50.4	
	59 1,2,4,5-Tetrachlorobenzene	216	13.440	13.450	(0.870)	802437	101.359	101	
	60 Hexachlorocyclopentadiene	237	13.450	13.471	(0.871)	225508	38.9246	38.9(R)	
	61 2,4,6-Trichlorophenol	196	13.751	13.781	(0.890)	313095	52.6977	52.7	
	62 2,4,5-Trichlorophenol	196	13.833	13.874	(0.895)	336106	53.4725	53.5	
	64 Safrole	104	14.123	14.154	(0.914)	173006	55.4787	55.5(Q)	
	65 2-Chloronaphthalene	162	14.133	14.154	(0.915)	1272851	53.3522	53.4	
	66 1,1'-Biphenyl	154	14.154	14.185	(0.916)	958705	53.7265	53.7	
	67 1-Chloronaphthalene	162	14.185	14.216	(0.918)	787992	50.3937	50.4	
	69 2-Nitroaniline	65	14.465	14.495	(0.936)	240489	45.4590	45.4	
	70 1,4-Naphthoquinone	158	14.579	14.599	(0.944)	302189	73.6760	73.7(R)	
	75 Acenaphthylene	152	15.096	15.127	(0.977)	1154635	46.0282	46.0	
	73 Dimethyl Phthalate	163	15.003	15.054	(0.971)	966147	51.0219	51.0	
	72 1,3-Dinitrobenzene	168	14.982	15.023	(0.970)	161066	53.2724	53.3	
	74 2,6-Dinitrotoluene	165	15.075	15.116	(0.976)	221618	52.3671	52.4	
*	78 Acenaphthene-D10	164	15.448	15.458	(1.000)	690193	40.0000		
	79 Acenaphthene	153	15.520	15.551	(1.005)	751994	48.6804	48.7	
	77 3-Nitroaniline	138	15.448	15.510	(1.000)	212740	50.0116	50.0	
	80 2,4-Dinitrophenol	184	15.696	15.769	(1.016)	130108	54.9915	55.0	
	82 Dibenzofuran	168	15.945	15.976	(1.032)	1173127	51.9964	52.0	
	81 Pentachlorobenzene	250	15.872	15.893	(1.027)	393133	55.1731	55.2	
	85 1-Naphthylamine	143	16.141	16.172	(1.045)	806588	54.3665	54.4	
	84 2,4-Dinitrotoluene	165	16.028	16.079	(1.038)	261845	48.6451	48.6	
	88 2-Naphthylamine	143	16.348	16.390	(1.058)	788261	56.3143	56.3	
	83 4-Nitrophenol	139	16.017	16.079	(1.037)	159559	53.0322	53.0	

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Report Date: 30-Jun-2014 15:18

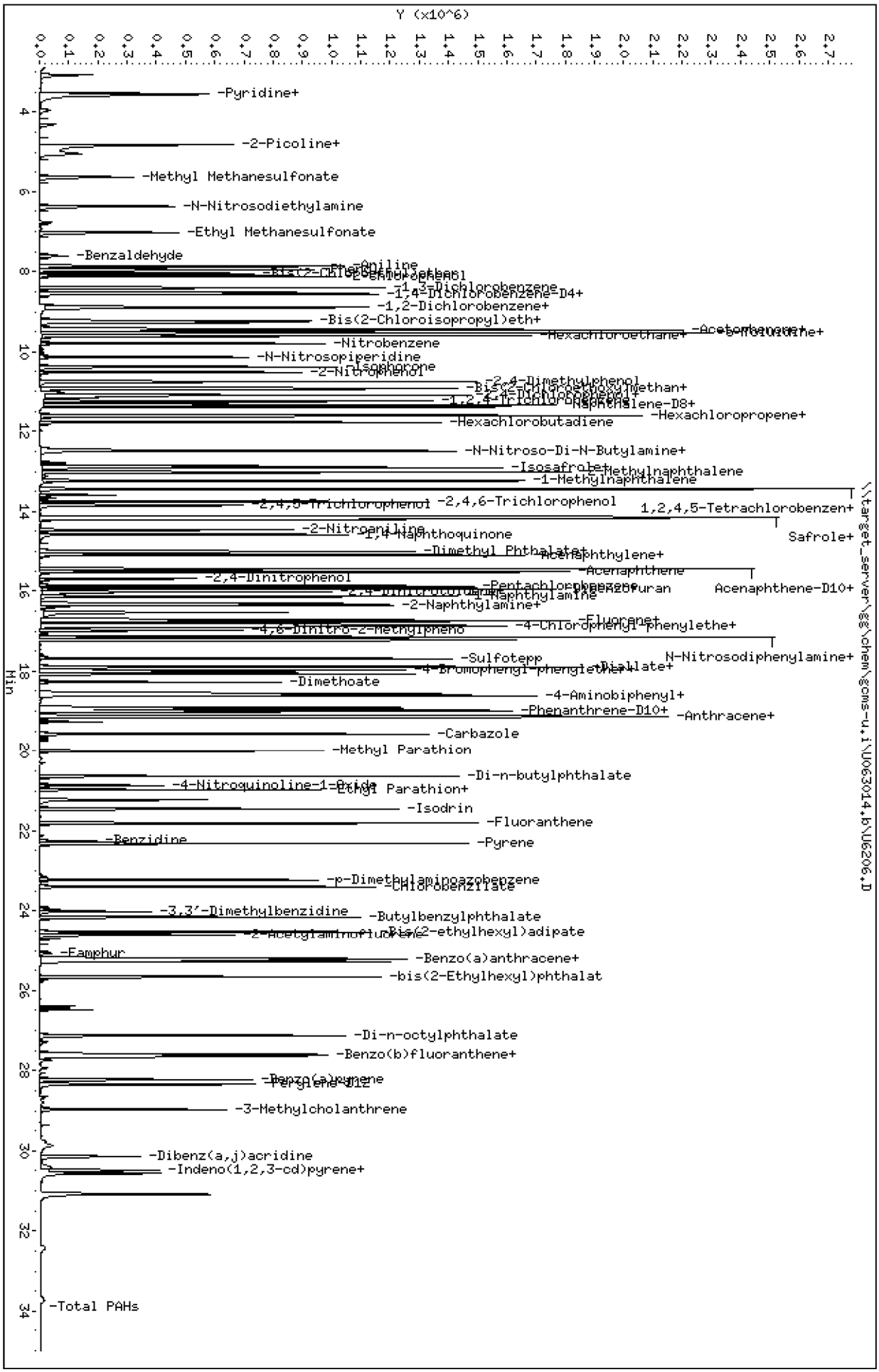
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
87	2,3,4,6-Tetrachlorophenol	232	16.307	16.338	(1.056)	239540	51.3747	51.4	
90	Fluorene	166	16.752	16.783	(1.084)	913300	49.7919	49.8	
89	Diethylphthalate	149	16.711	16.741	(1.082)	926161	50.6384	50.6	
91	4-Chlorophenyl-phenylether	204	16.845	16.855	(1.090)	445027	51.0610	51.1	
93	O,O-diethyl-o-2-pyrazinylphos	107	16.876	16.907	(1.092)	188053	56.2851	56.3	
92	5-Nitro-O-Toluidine	152	16.866	16.917	(1.092)	241707	63.4856	63.5(R)	
94	4-Nitroaniline	138	16.918	16.969	(1.095)	189101	53.8266	53.8(Q)	
95	4,6-Dinitro-2-Methylphenol	198	16.990	17.042	(0.897)	175010	54.2348	54.2	
96	N-Nitrosodiphenylamine	169	17.156	17.176	(0.905)	1319053	85.8302	85.8	
97	N-Nitrosodiphenylamine/DPA	169	17.156	17.176	(0.905)	1319053	85.8302	85.8	
98	1,2-Diphenylhydrazine	77	17.207	17.228	(0.908)	924085	47.1858	47.2	
99	Azobenzene	77	17.207	17.228	(0.908)	924085	47.2614	47.3	
101	Sulfotepp	97	17.684	17.704	(0.933)	179240	54.2015	54.2	
103	Diallate	86	17.901	17.921	(0.945)	398817	55.7431	55.7	
105	4-Bromophenyl-phenylether	248	17.984	18.004	(0.949)	263201	49.7157	49.7	
104	Phorate	75	17.891	17.932	(0.944)	440284	32.8107	32.8(R)	
102	1,3,5-Trinitrobenzene	213	17.891	17.952	(0.944)	70348	57.4447	57.4(Q)	
106	Phenacetin	108	18.025	18.097	(0.951)	411457	56.2176	56.2	
107	Hexachlorobenzene	284	18.077	18.097	(0.954)	297377	47.8129	47.8	
108	Dimethoate	87	18.274	18.325	(0.964)	319745	55.5443	55.5	
109	Atrazine	200	18.532	18.573	(0.978)	77431	13.3369	13.3(QRH)	
111	4-Aminobiphenyl	169	18.615	18.635	(0.983)	623227	47.7388	47.7	
110	Pentachlorophenol	266	18.584	18.615	(0.981)	196609	55.3076	55.3	
112	Pentachloronitrobenzene	237	18.615	18.635	(0.983)	115481	53.8371	53.8	
* 114	Phenanthrene-D10	188	18.946	18.967	(1.000)	1031725	40.0000		
113	Pronamide	173	18.905	18.936	(0.998)	413383	54.9971	55.0	
115	Phenanthrene	178	18.998	19.029	(1.003)	1140612	48.3808	48.4	
116	Anthracene	178	19.122	19.153	(1.009)	1109088	48.8335	48.8	
118	Disulfoton	88	19.143	19.163	(1.010)	536330	53.2129	53.2	
117	Dinoseb	211	19.133	19.153	(1.010)	217605	56.6605	56.7	
119	Carbazole	167	19.567	19.598	(1.033)	1006814	50.6260	50.6	
120	Methyl Parathion	109	20.002	20.012	(1.056)	291778	60.9351	60.9(R)	
121	Di-n-butylphthalate	149	20.644	20.654	(1.090)	1452491	52.1647	52.2	
122	4-Nitroquinoline-1-Oxide	190	20.871	20.902	(1.102)	79237	58.0664	58.1	
123	Ethyl Parathion	291	20.985	20.995	(1.108)	83745	58.1519	58.2	
124	Methapyrilene	97	20.975	20.995	(1.107)	197812	57.6957	57.7(Q)	
125	Isodrin	193	21.461	21.471	(1.133)	164412	52.7728	52.8	
126	Fluoranthene	202	21.813	21.834	(1.151)	1056672	47.8322	47.8	
128	Pyrene	202	22.320	22.341	(0.885)	1105357	47.3684	47.4	
127	Benzidine	184	22.258	22.268	(0.882)	150848	38.9767	39.0(aR)	
131	p-Dimethylaminoazobenzene	225	23.221	23.231	(0.920)	196567	54.8007	54.8	
132	Chlorobenzilate	251	23.397	23.407	(0.927)	319783	53.8946	53.9	
134	3,3'-Dimethylbenzidine	212	24.018	24.028	(0.952)	282224	65.8865	65.9(R)	
135	Butylbenzylphthalate	149	24.163	24.173	(0.958)	475884	46.7233	46.7	
136	Bis(2-ethylhexyl)adipate	129	24.525	24.535	(0.972)	376645	41.4749	41.5	
137	2-Acetylaminofluorene	181	24.608	24.628	(0.975)	297033	59.2392	59.2	
139	Benzo(a)anthracene	228	25.198	25.218	(0.999)	741460	45.5233	45.5	
* 140	Chrysene-D12	240	25.229	25.239	(1.000)	702663	40.0000		
142	Chrysene	228	25.281	25.301	(1.002)	729973	49.8691	49.9	
141	3,3'-Dichlorobenzidine	252	25.260	25.270	(1.001)	243617	52.4033	52.4	
143	bis(2-Ethylhexyl)phthalate	149	25.664	25.674	(1.017)	663886	47.4519	47.4	
144	Di-n-octylphthalate	149	27.123	27.133	(0.957)	1058781	48.8794	48.9	
145	Benzo(b)fluoranthene	252	27.589	27.609	(0.973)	645891	49.6877	49.7	
146	7,12-Dimethylbenz(A)Anthracen	256	27.609	27.630	(0.974)	341274	53.9608	54.0	

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Report Date: 30-Jun-2014 15:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
147	Benzo(k)fluoranthene	252	27.651	27.671	(0.976)	676598	50.4491	50.4(H)	
148	Benzo(a)pyrene	252	28.230	28.251	(0.996)	538505	47.6430	47.6	
* 149	Perylene-D12	264	28.344	28.354	(1.000)	519888	40.0000		
150	3-Methylcholanthrene	268	28.965	28.986	(1.022)	291245	57.0505	57.0	
152	Dibenz(a,j)acridine	279	30.145	30.166	(1.064)	335894	55.9665	56.0	
153	Indeno(1,2,3-cd)pyrene	276	30.487	30.507	(1.076)	375892	50.8580	50.8	
154	Dibenzo(a,h)anthracene	278	30.569	30.590	(1.079)	371533	50.2321	50.2	
155	Benzo(g,h,i)perylene	276	31.077	31.097	(1.096)	393490	49.9858	50.0	
M 156	Total PAHs	100				14671300	881.989	882	

QC Flag Legend

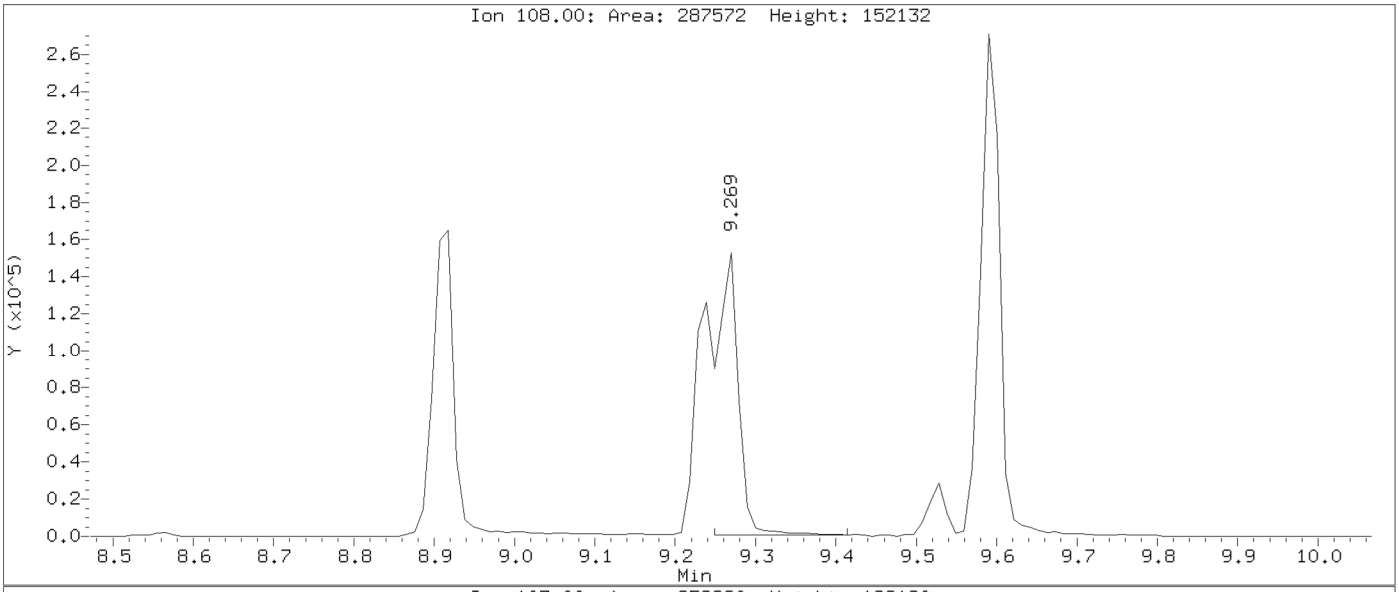
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

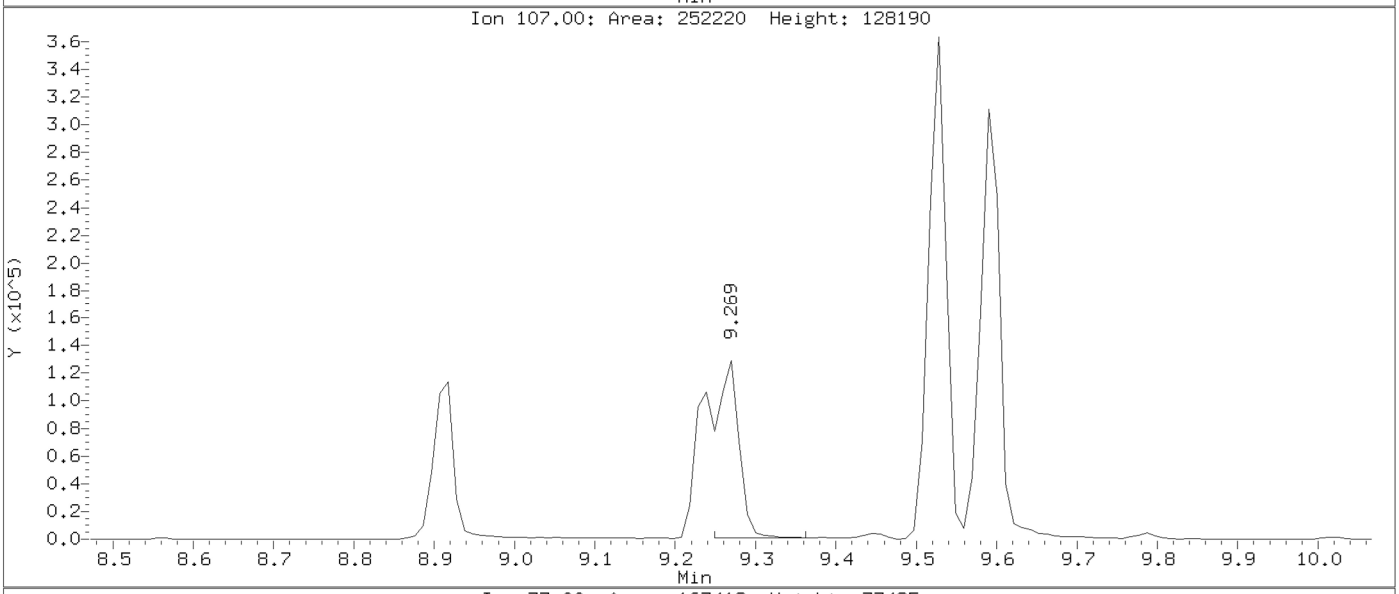

Y (x10^6)
Min
-Pyridine+
-2-Picoline+
-Methyl Methanesulfonate
-N-Nitrosodiethylamine
-Ethyl Methanesulfonate
-Benzaldehyde
-Aniline
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-D4+
-1,2-Dichlorobenzene+
-Bis(2-Chloroisopropyl)eth+
-Hexachloroethane+
-Nitrobenzene
-N-Nitrosopiperidine
-Isophorone
-2-Nitrophenol
-2,4-Dimethylphenol
-Naphthalene-D8+
-Hexachloropropene+
-Hexachlorobutadiene
-N-Nitroso-Di-N-Butylamine+
-Isosafrole+
-2-Methylnaphthalene
-1-Methylnaphthalene
-2,4,5-Trichlorophenol
-2,4,6-Trichlorophenol
1,2,4,5-Tetrachlorobenzen+
-2-Nitroaniline
1,4-Naphthoquinone
Safrole+
-Dimethyl Phthalate+
-Acenaphthylene+
-Acenaphthene
-2,4-Dinitrophenol
-Pentachlorobenzene+
Acenaphthene-D10+
-1-Naphthylamine
-2-Naphthylamine+
-Fluorene+
-4-Chlorophenyl-phenylethe+
-4,6-Dinitro-2-Methylpheno
-Sulfotepp
N-Nitrosodiphenylamine+
-Diallate+
-4-Bromophenyl-phenylether+
-Dimethoate
-4-Aminobiphenyl+
-Phenanthrene-D10+
-Anthracene+
-Carbazole
-Methyl Parathion
-Di-n-butylphthalate
-4-Nitroquinoline-1-Oxide
-Ethyl Parathion+
-Isodrin
-Fluoranthene
-Benzidine
-Pyrene
-p-Dimethylaminoazobenzene
-Chlorobenzilate
-3,3'-Dimethylbenzidine
-Butylbenzylphthalate
-Bis(2-ethylhexyl)adipate
-2-Acetylaminofluorene
-Camphur
-Benzo(a)anthracene+
-bis(2-Ethylhexyl)phthalat
-Di-n-octylphthalate
-Benzo(b)fluoranthene+
-Benzo(a)pyrene
-Perylene-D12
-3-Methylcholanthrene
-Dibenz(a,j)acridine
-Indeno(1,2,3-cd)pyrene+
-Total PAHs
Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Date : 30-JUN-2014 14:32
Client ID:
Sample Info: WG145667-8
Volume Injected (uL): 1.0
Column phase: ZB5-MS
Instrument: gcms-u.i
Operator: JCG
Column diameter: 0.25
\\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D

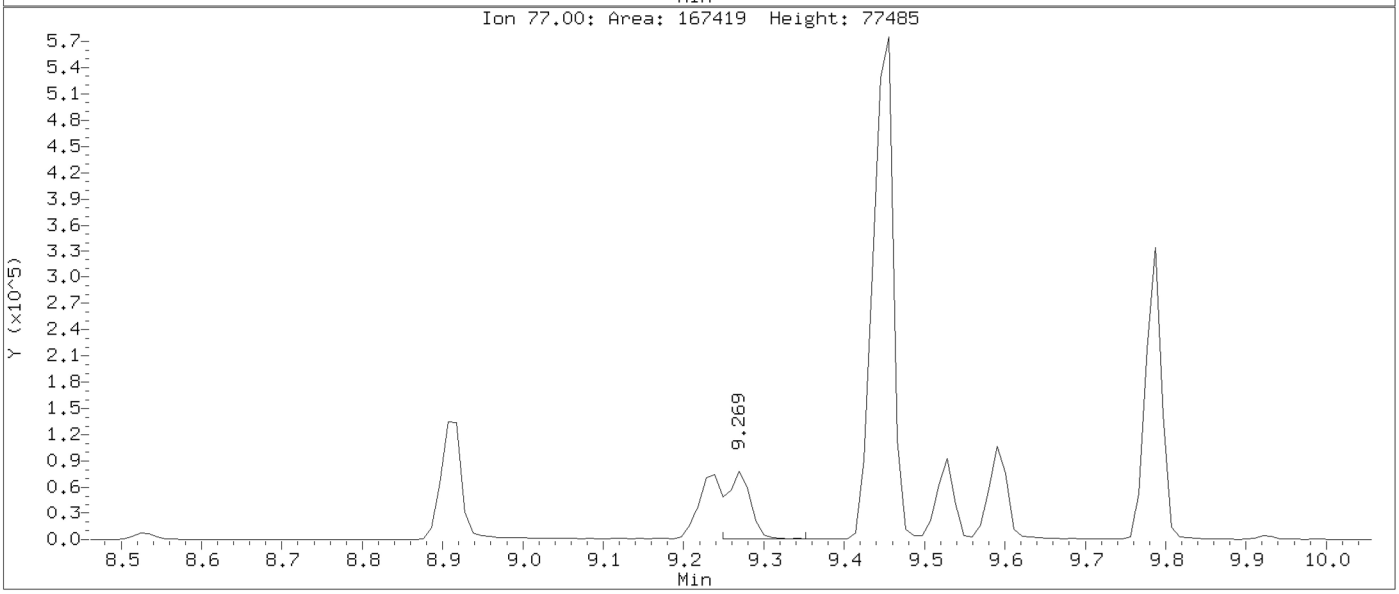
Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Injection Date: 30-JUN-2014 14:32
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

BEFORE MANUAL INTEGRATION



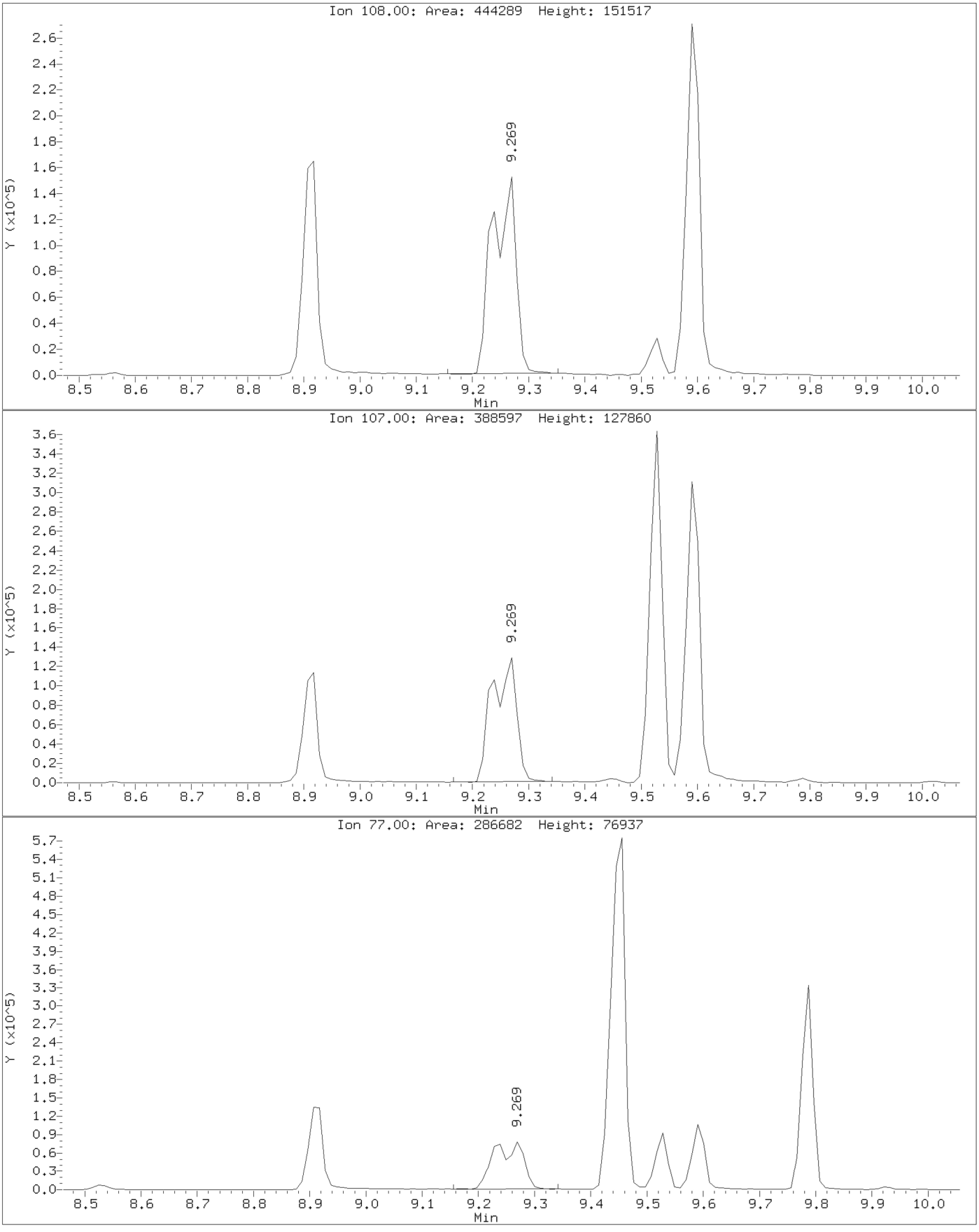




Data File: \\target_server\gg\chem\gcms-u.i\U063014.b\U6206.D
Injection Date: 30-JUN-2014 14:32
Instrument: gcms-u.i
Client Sample ID:

Compound: 2-Methylphenol
CAS Number: 95-48-7

AFTER MANUAL INTEGRATION



Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6268.D U6269.D U6267.D U6270.D U6271.D U6272.D
Column ID:
Calibration Date(s): 03-JUL-14 10:31, 03-JUL-14 14:15

	Level 1 10.0000	Level 2 25.0000	Level 3 50.0000	Level 4 75.0000	Level 5 100.0000	Level 6 125.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Benzaldehyde	0.85085	0.79250	0.80641	0.56791	0.49926	0.46216	AVG		0.66318		26.01349	15.00000	W(
Phenol	1.54595	1.57600	1.69519	1.43415	1.40580	1.48201	AVG		1.52318		6.96637	30.00000	O
2-Methylphenol	1.15917	1.17176	1.31001	1.17775	1.15838	1.23139	AVG		1.20141		4.96169	15.00000	O
Acetophenone	0.44859	0.45039	0.48295	0.40450	0.39856	0.42119	AVG		0.43436		7.40080	15.00000	O
Isophorone	0.63373	0.63081	0.68631	0.59852	0.59049	0.62561	AVG		0.62758		5.39026	15.00000	O
2-Nitrophenol	0.17320	0.18125	0.19283	0.16954	0.16534	0.16847	AVG		0.17510		5.85696	30.00000	O
2,4-Dimethylphenol	0.33826	0.34194	0.36884	0.31579	0.31012	0.31614	AVG		0.33185		6.72256	15.00000	O
Bis(2-Chloroethoxy)methane	0.40160	0.46353	0.49053	0.41670	0.41138	0.41524	AVG		0.43316		8.17969	15.00000	O
Caprolactam	0.07888	0.08501	0.09643	0.08622	0.08193	0.09182	AVG		0.08672		7.43573	15.00000	O
4-Chloro-3-Methylphenol	0.27608	0.27749	0.31032	0.26330	0.24263	0.25414	AVG		0.27066		8.68439	30.00000	O
2,4,5-Trichlorophenol	0.36481	0.38753	0.42818	0.36295	0.35219	0.35620	AVG		0.37531		7.63678	15.00000	O
2-Chloronaphthalene	1.58279	1.61612	1.63616	1.38784	1.29999	1.25346	AVG		1.46273		11.59822	15.00000	O
Dimethyl Phthalate	1.24624	1.22912	1.30438	1.06915	1.01472	1.01301	AVG		1.14610		11.23275	15.00000	O
Acenaphthylene	1.84781	1.88837	1.90762	1.56121	1.49773	1.44551	AVG		1.69138		12.54013	15.00000	O
Acenaphthene	1.10162	1.13423	1.17711	0.98774	0.93262	0.87963	AVG		1.03549		11.53503	30.00000	O
4-Nitrophenol	0.21406	0.23254	0.24969	0.20600	0.21118	0.20032	AVG		0.21897		8.49147	15.00000	O
2,3,4,6-Tetrachlorophenol	0.29899	0.31675	0.33542	0.27783	0.26489	0.27206	AVG		0.29433		9.42486	15.00000	O
Diethylphthalate	1.34195	1.33772	1.41534	1.15045	1.08512	1.05125	AVG		1.23031		12.47367	15.00000	O
Fluorene	1.19522	1.18078	1.25986	1.03631	0.98591	0.96385	AVG		1.10365		11.22048	15.00000	O
4-Chlorophenyl-phenylether	0.55749	0.55672	0.59159	0.48980	0.46890	0.47212	AVG		0.52277		9.99425	15.00000	O
N-Nitrosodiphenylamine	0.55100	0.55061	0.59091	0.50841	0.50602	0.52883	AVG		0.53930		5.92172	30.00000	O
4-Bromophenyl-phenylether	0.20340	0.19212	0.20973	0.18672	0.18306	0.18517	AVG		0.19337		5.60573	15.00000	O
Anthracene	1.05657	0.98410	1.02318	0.84487	0.84566	0.81094	AVG		0.92755		11.42268	15.00000	O
Carbazole	0.82547	0.81157	0.80257	0.70131	0.72260	0.70585	AVG		0.76156		7.54744	15.00000	O
Di-n-butylphthalate	1.40002	1.25429	1.25169	1.04052	1.05549	1.05715	AVG		1.17653		12.55197	15.00000	O
Fluoranthene	1.04609	0.95480	0.90557	0.77341	0.79144	0.75487	AVG		0.87103		13.40958	30.00000	O
Butylbenzylphthalate	0.72605	0.67805	0.65332	0.62684	0.63584	0.70405	AVG		0.67069		5.83995	15.00000	O
Di-n-octylphthalate	2.13471	1.84301	1.92060	2.00945	2.00120	2.49856	AVG		2.06792		11.23875	30.00000	O
Benzo(k)fluoranthene	1.21791	1.12119	1.03689	1.03952	1.03256	1.07409	AVG		1.08703		6.65953	15.00000	O
Benzo(g,h,i)perylene	0.52534	0.65602	0.57670	0.52307	0.51118	0.43973	AVG		0.53867		13.43366	15.00000	O
2-Fluorophenol	1.25458	1.26775	1.37365	1.18384	1.18840	1.22458	AVG		1.24880		5.59789	15.00000	
Phenol-D6	1.37940	1.37925	1.50192	1.33070	1.35434	1.38003	AVG		1.38761		4.27645	15.00000	
Nitrobenzene-D5	0.34353	0.34295	0.37342	0.32131	0.31824	0.32813	AVG		0.33793		6.02969	15.00000	
2-Fluorobiphenyl	1.21215	1.21681	1.24997	1.04409	1.02925	0.99629	AVG		1.12476		10.05275	15.00000	
2,4,6-Tribromophenol	0.21118	0.21054	0.22451	0.18747	0.17270	0.17847	AVG		0.19748		10.53619	15.00000	
Terphenyl-D14	0.99031	0.93090	0.93673	0.90787	0.89943	1.08491	AVG		0.95836		7.27138	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File IDs : U6268.D U6269.D U6267.D U6270.D U6271.D U6272.D

SDG: WE53-7
Instrument ID: GCMS-U
Column ID:
Calibration Date(s): 03-JUL-14 10:31 03-JUL-14 14:15

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6268.D U6269.D U6267.D U6270.D U6271.D U6272.D
Column ID:
Calibration Date(s): 03-JUL-14 10:31, 03-JUL-14 14:15

	10.0000 Level 1	25.0000 Level 2	50.0000 Level 3	75.0000 Level 4	100.0000 Level 5	125.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Benzaldehyde	0.85085	0.79250	0.80641	0.56791	0.49926	0.46216	AVG		0.66318		26.01349	15.00000	W
Phenol	1.54595	1.57600	1.69519	1.43415	1.40580	1.48201	AVG		1.52318		6.96637	30.00000	O
Isophorone	0.63373	0.63081	0.68631	0.59852	0.59049	0.62561	AVG		0.62758		5.39026	15.00000	O
2-Nitrophenol	0.17320	0.18125	0.19283	0.16954	0.16534	0.16847	AVG		0.17510		5.85696	30.00000	O
2,4-Dimethylphenol	0.33826	0.34194	0.36884	0.31579	0.31012	0.31614	AVG		0.33185		6.72256	15.00000	O
Bis(2-Chloroethoxy)methane	0.40160	0.46353	0.49053	0.41670	0.41138	0.41524	AVG		0.43316		8.17969	15.00000	O
2,4-Dichlorophenol	0.24077	0.25766	0.27063	0.22844	0.21916	0.22035	AVG		0.23950		8.76475	30.00000	O
Caprolactam	0.07888	0.08501	0.09643	0.08622	0.08193	0.09182	AVG		0.08672		7.43573	15.00000	O
4-Chloro-3-Methylphenol	0.27608	0.27749	0.31032	0.26330	0.24263	0.25414	AVG		0.27066		8.68439	30.00000	O
2-Methylnaphthalene	0.61128	0.60635	0.65469	0.54257	0.52970	0.53660	AVG		0.58020		8.81057	15.00000	O
Hexachlorocyclopentadiene	0.39528	0.42028	0.44017	0.34668	0.33700	0.29888	AVG		0.37305		14.54719	15.00000	O
2,4,5-Trichlorophenol	0.36481	0.38753	0.42818	0.36295	0.35219	0.35620	AVG		0.37531		7.63678	15.00000	O
2-Nitroaniline	0.40693	0.43638	0.48375	0.40718	0.40080	0.41247	AVG		0.42459		7.42322	15.00000	O
Dimethyl Phthalate	1.24624	1.22912	1.30438	1.06915	1.01472	1.01301	AVG		1.14610		11.23275	15.00000	O
Acenaphthylene	1.84781	1.88837	1.90762	1.56121	1.49773	1.44551	AVG		1.69138		12.54013	15.00000	O
3-Nitroaniline	0.29303	0.31699	0.35267	0.30599	0.29611	0.31358	AVG		0.31306		6.88535	15.00000	O
Dibenzofuran	1.43816	1.50524	1.55813	1.28499	1.24079	1.23152	AVG		1.37647		10.33442	15.00000	O
4-Nitrophenol	0.21406	0.23254	0.24969	0.20600	0.21118	0.20032	AVG		0.21897		8.49147	15.00000	O
Diethylphthalate	1.34195	1.33772	1.41534	1.15045	1.08512	1.05125	AVG		1.23031		12.47367	15.00000	O
Fluorene	1.19522	1.18078	1.25986	1.03631	0.98591	0.96385	AVG		1.10365		11.22048	15.00000	O
4-Chlorophenyl-phenylether	0.55749	0.55672	0.59159	0.48980	0.46890	0.47212	AVG		0.52277		9.99425	15.00000	O
4-Bromophenyl-phenylether	0.20340	0.19212	0.20973	0.18672	0.18306	0.18517	AVG		0.19337		5.60573	15.00000	O
Phenanthrene	1.07365	1.00832	1.04339	0.90467	0.87388	0.89720	AVG		0.96685		8.81820	15.00000	O
Anthracene	1.05657	0.98410	1.02318	0.84487	0.84566	0.81094	AVG		0.92755		11.42268	15.00000	O
Carbazole	0.82547	0.81157	0.80257	0.70131	0.72260	0.70585	AVG		0.76156		7.54744	15.00000	O
Fluoranthene	1.04609	0.95480	0.90557	0.77341	0.79144	0.75487	AVG		0.87103		13.40958	30.00000	O
Pyrene	1.49571	1.42405	1.46102	1.39879	1.36305	1.63046	AVG		1.46218		6.46962	15.00000	O
Chrysene	0.91838	0.91532	0.85565	0.82608	0.78468	0.83020	AVG		0.85505		6.19986	15.00000	O
bis(2-Ethylhexyl)phthalate	0.94891	0.91154	0.88531	0.86422	0.85682	0.94697	AVG		0.90229		4.44999	15.00000	O
Di-n-octylphthalate	2.13471	1.84301	1.92060	2.00945	2.00120	2.49856	AVG		2.06792		11.23875	30.00000	O
Benzo(k)fluoranthene	1.21791	1.12119	1.03689	1.03952	1.03256	1.07409	AVG		1.08703		6.65953	15.00000	O
Dibenzo(a,h)anthracene	0.44781	0.58138	0.52060	0.51946	0.50685	0.47548	AVG		0.50860		8.94764	15.00000	O
Benzo(g,h,i)perylene	0.52534	0.65602	0.57670	0.52307	0.51118	0.43973	AVG		0.53867		13.43366	15.00000	O
2-Fluorophenol	1.25458	1.26775	1.37365	1.18384	1.18840	1.22458	AVG		1.24880		5.59789	15.00000	
Phenol-D6	1.37940	1.37925	1.50192	1.33070	1.35434	1.38003	AVG		1.38761		4.27645	15.00000	
Nitrobenzene-D5	0.34353	0.34295	0.37342	0.32131	0.31824	0.32813	AVG		0.33793		6.02969	15.00000	
2-Fluorobiphenyl	1.21215	1.21681	1.24997	1.04409	1.02925	0.99629	AVG		1.12476		10.05275	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-U
Lab File IDs : U6268.D U6269.D U6267.D U6270.D U6271.D U6272.D
Column ID:
Calibration Date(s): 03-JUL-14 10:31, 03-JUL-14 14:15

2,4,6-Tribromophenol	0.21118	0.21054	0.22451	0.18747	0.17270	0.17847	AVG		0.19748		10.53619	15.00000	
Terphenyl-D14	0.99031	0.93090	0.93673	0.90787	0.89943	1.08491	AVG		0.95836		7.27138	15.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Data File: \\target_server\gg\chem\gcms-u.i\U070314.b\U6273.D
Report Date: 03-Jul-2014 15:44

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: 021497
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: WG145897-8
Level: LOW Operator: JCG
Data Type: MS DATA SampleType: LCS
SpikeList File: INDcheck8270.spk Quant Type: ISTD
Sublist File: all_DOD.sub
Method File: \\target_server\gg\chem\gcms-u.i\U070314.b\U8270C60.m
Misc Info: WG145897,WG145897,WG145897-4

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	1,4-Dioxane	50.0	51.9	103.75	80-120
2	N-Nitrosodimethyla	50.0	51.5	102.96	80-120
3	Pyridine	50.0	53.2	106.46	80-120
5	2-Picoline	50.0	58.7	117.45	80-120
6	N-Nitrosomethyleth	50.0	54.4	108.74	80-120
7	Methyl Methanesulf	50.0	45.9	91.72	80-120
9	N-Nitrosodiethylam	50.0	52.3	104.56	80-120
10	Ethyl Methanesulfo	50.0	54.0	108.12	80-120
11	Benzaldehyde	50.0	9.51	19.03*	80-120
12	Aniline	50.0	51.9	103.85	80-120
15	Phenol	50.0	51.1	102.25	80-120
16	Bis(2-Chloroethyl)	50.0	49.5	99.00	80-120
17	2-Chlorophenol	50.0	51.0	102.11	80-120
18	1,3-Dichlorobenzen	50.0	49.8	99.64	80-120
20	1,4-Dichlorobenzen	50.0	50.3	100.54	80-120
21	1,2-Dichlorobenzen	50.0	49.4	98.71	80-120
22	Benzyl alcohol	50.0	49.8	99.60	80-120
25	2,2'-Oxybis(1-chlo	50.0	36.7	73.38*	80-120
23	2-Methylphenol	50.0	51.0	101.90	80-120
27	Acetophenone	100	103	103.31	80-120
26	N-Nitrosopyrrolidi	50.0	54.8	109.66	80-120
29	o-Toluidine	50.0	52.1	104.24	80-120
28	N-Nitrosomorpholin	50.0	54.5	109.08	80-120
30	N-Nitroso-di-n-pro	50.0	46.4	92.83	80-120
32	Hexachloroethane	50.0	50.7	101.38	80-120
31	3&4-Methylphenol	50.0	49.8	99.70	80-120
34	Nitrobenzene	50.0	50.4	100.78	80-120
35	N-Nitrosopiperidin	50.0	51.6	103.27	80-120
36	Isophorone	50.0	50.8	101.68	80-120
37	2-Nitrophenol	50.0	51.6	103.28	80-120
38	2,4-Dimethylphenol	50.0	50.6	101.30	80-120
39	O,O,O-Triethylphos	50.0	54.8	109.55	80-120
40	Bis(2-Chloroethoxy	50.0	54.4	108.85	80-120
41	2,4-Dichlorophenol	50.0	53.8	107.55	80-120
43	1,2,4-Trichloroben	50.0	51.2	102.44	80-120
42	Benzoic acid	50.0	51.4	102.79	80-120
45	Naphthalene	50.0	50.3	100.69	80-120
47	2,6-Dichlorophenol	50.0	55.7	111.40	80-120
46	4-Chloroaniline	50.0	53.3	106.58	80-120
48	Hexachloropropene	50.0	55.9	111.82	80-120

Data File: \\target_server\gg\chem\gcms-u.i\U070314.b\U6273.D
Report Date: 03-Jul-2014 15:44

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
50	Hexachlorobutadien	50.0	50.4	100.85	80-120
49	A,A-Dimethylphene	50.0	0.000	*	80-120
53	N-Nitroso-Di-N-But	50.0	62.1	124.25*	80-120
51	p-Phenylenediamine	50.0	0.000	*	80-120
52	Caprolactam	50.0	51.1	102.20	80-120
54	4-Chloro-3-Methylp	50.0	54.4	108.90	80-120
55	Isosafrole	50.0	54.3	108.68	80-120
56	2-Methylnaphthalen	50.0	51.9	103.79	80-120
57	1-Methylnaphthalen	50.0	51.0	101.92	80-120
59	1,2,4,5-Tetrachlor	100	99.0	99.00	80-120
58	Diethyl Adipate	50.0	0.000	*	80-120
60	Hexachlorocyclopen	50.0	40.0	80.12	80-120
61	2,4,6-Trichlorophe	50.0	53.0	106.00	80-120
62	2,4,5-Trichlorophe	50.0	52.0	104.01	80-120
64	Safrole	50.0	53.3	106.61	80-120
65	2-Chloronaphthalen	50.0	54.0	107.93	80-120
66	1,1'-Biphenyl	50.0	50.0	100.08	80-120
67	1-Chloronaphthalen	50.0	46.7	93.49	80-120
69	2-Nitroaniline	50.0	44.6	89.22	80-120
70	1,4-Naphthoquinone	50.0	68.6	137.22*	80-120
72	1,3-Dinitrobenzene	50.0	52.3	104.60	80-120
73	Dimethyl Phthalate	50.0	50.1	100.24	80-120
74	2,6-Dinitrotoluene	50.0	50.6	101.23	80-120
75	Acenaphthylene	50.0	45.7	91.33	80-120
77	3-Nitroaniline	50.0	49.3	98.62	80-120
79	Acenaphthene	50.0	49.3	98.60	80-120
80	2,4-Dinitrophenol	50.0	53.1	106.28	80-120
81	Pentachlorobenzene	50.0	53.8	107.61	80-120
82	Dibenzofuran	50.0	52.2	104.41	80-120
83	4-Nitrophenol	50.0	48.7	97.46	80-120
84	2,4-Dinitrotoluene	50.0	47.5	95.01	80-120
85	1-Naphthylamine	50.0	46.7	93.36	80-120
87	2,3,4,6-Tetrachlor	50.0	49.9	99.87	80-120
88	2-Naphthylamine	50.0	47.4	94.83	80-120
89	Diethylphthalate	50.0	50.4	100.91	80-120
90	Fluorene	50.0	49.0	97.94	80-120
91	4-Chlorophenyl-phe	50.0	50.9	101.83	80-120
93	O,O-diethyl-o-2-py	50.0	52.4	104.86	80-120
92	5-Nitro-O-Toluidin	50.0	52.1	104.28	80-120
94	4-Nitroaniline	50.0	49.6	99.12	80-120
95	4,6-Dinitro-2-Meth	50.0	52.7	105.47	80-120
96	N-Nitrosodiphenyla	100	87.7	87.67	80-120
98	1,2-Diphenylhydraz	50.0	49.1	98.19	80-120
101	Sulfotepp	50.0	52.5	104.96	80-120
103	Diallate	50.0	54.9	109.84	80-120
104	Phorate	50.0	30.4	60.89*	80-120
102	1,3,5-Trinitrobenz	50.0	49.5	99.08	80-120
105	4-Bromophenyl-phen	50.0	49.4	98.80	80-120
106	Phenacetin	50.0	48.1	96.21	80-120
107	Hexachlorobenzene	50.0	49.1	98.28	80-120
108	Dimethoate	50.0	44.4	88.80	80-120
109	Atrazine	50.0	33.5	67.04*	80-120
110	Pentachlorophenol	50.0	52.6	105.15	80-120
112	Pentachloronitrobe	50.0	52.3	104.68	80-120

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SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
111 4-Aminobiphenyl	50.0	30.3	60.56*	80-120
113 Pronamide	50.0	51.3	102.59	80-120
115 Phenanthrene	50.0	46.4	92.73	80-120
116 Anthracene	50.0	48.4	96.90	80-120
118 Disulfoton	50.0	50.4	100.75	80-120
117 Dinoseb	50.0	54.5	109.04	80-120
119 Carbazole	50.0	45.8	91.62	80-120
120 Methyl Parathion	50.0	52.4	104.81	80-120
121 Di-n-butylphthalat	50.0	46.5	92.95	80-120
122 4-Nitroquinoline-1	50.0	49.4	98.76	80-120
123 Ethyl Parathion	50.0	49.6	99.21	80-120
124 Methapyrilene	50.0	48.2	96.51	80-120
125 Isodrin	50.0	47.5	94.94	80-120
126 Fluoranthene	50.0	41.9	83.80	80-120
127 Benzidine	50.0	23.8	47.57*	80-120
128 Pyrene	50.0	48.7	97.41	80-120
130 Aramite	50.0	0.000	*	80-120
131 p-Dimethylaminoazo	50.0	48.8	97.72	80-120
132 Chlorobenzilate	50.0	53.9	107.79	80-120
133 Kepone	50.0	0.000	*	80-120
134 3,3'-Dimethylbenzi	50.0	37.2	74.51*	80-120
135 Butylbenzylphthala	50.0	47.2	94.42	80-120
136 Bis(2-ethylhexyl)a	50.0	41.3	82.65	80-120
137 2-Acetylaminofluor	50.0	53.9	107.86	80-120
138 Famphur	50.0	0.000	0.00*	80-120
139 Benzo(a)anthracene	50.0	46.7	93.44	80-120
141 3,3'-Dichlorobenzi	50.0	53.5	107.09	80-120
142 Chrysene	50.0	51.6	103.14	80-120
143 bis(2-Ethylhexyl)p	50.0	48.1	96.25	80-120
144 Di-n-octylphthalat	50.0	45.6	91.17	80-120
145 Benzo(b)fluoranthe	50.0	47.1	94.15	80-120
146 7,12-Dimethylbenz(	50.0	51.0	102.05	80-120
147 Benzo(k)fluoranthe	50.0	49.4	98.91	80-120
148 Benzo(a)pyrene	50.0	49.0	97.98	80-120
150 3-Methylcholanthre	50.0	59.5	119.03	80-120
151 Hexachlorophene	50.0	0.000	*	80-120
152 Dibenz(a,j)acridin	50.0	58.7	117.46	80-120
153 Indeno(1,2,3-cd)py	50.0	54.2	108.46	80-120
154 Dibenzo(a,h)anthra	50.0	52.0	104.10	80-120
155 Benzo(g,h,i)peryle	50.0	52.0	104.03	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	100	0.000	*	20-110
$ 13 Phenol-D6	100	0.000	*	10-115
$ 33 Nitrobenzene-D5	50.0	0.000	*	40-110
$ 63 2-Fluorobiphenyl	50.0	0.000	*	50-110
$ 100 2,4,6-Tribromophe	100	0.000	*	40-125
$ 129 Terphenyl-D14	50.0	0.000	*	50-135

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Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-u.i\U070314.b\U6267.D
Lab Smp Id: WG145897-4
Inj Date : 03-JUL-2014 10:31 MS Autotune Date: 26-OCT-2013 10:51
Operator : JCG Inst ID: gcms-u.i
Smp Info : WG145897-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-u.i\U070314.b\U8270C60.m
Meth Date : 03-Jul-2014 15:18 gcms-u.i Quant Type: ISTD
Cal Date : 30-JUN-2014 13:49 Cal File: U6205.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all_DOD.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf*(Vt/Vo*Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	58	3.073	3.106	(0.271)	130021	50.0000	53.4	
	3 Pyridine	79	3.549	3.603	(0.417)	477517	50.0000	56.9	
	2 N-Nitrosodimethylamine	42	3.518	3.593	(0.413)	246835	50.0000	55.1	
	4 Ethyl Methacrylate	69	4.304	4.348	(0.505)	328401	50.0000	53.9	
	5 2-Picoline	93	4.801	4.825	(0.564)	429290	50.0000	55.6	
	6 N-Nitrosomethylethylamine	88	5.039	5.073	(0.592)	190593	50.0000	56.3	
	7 Methyl Methanesulfonate	80	5.619	5.663	(0.660)	276004	50.0000	54.9	
$	8 2-Fluorophenol	112	5.981	6.025	(0.702)	400884	50.0000	55.0	
	9 N-Nitrosodiethylamine	102	6.364	6.408	(0.747)	202365	50.0000	54.3	
	10 Ethyl Methanesulfonate	79	7.027	7.071	(0.825)	308165	50.0000	53.2	
	11 Benzaldehyde	77	7.596	7.619	(0.892)	235343	50.0000	60.8	
	14 Pentachloroethane	117	7.917	7.930	(0.930)	150730	50.0000	54.3	
	12 Aniline	93	7.865	7.888	(0.923)	609819	50.0000	54.9	
	16 Bis(2-Chloroethyl)ether	93	8.041	8.074	(0.944)	371183	50.0000	53.7	
$	13 Phenol-D6	99	7.927	7.961	(0.931)	438317	50.0000	54.1	
	15 Phenol	94	7.948	7.992	(0.933)	494723	50.0000	55.6	
	17 2-Chlorophenol	128	8.103	8.137	(0.951)	401947	50.0000	54.9	
	18 1,3-Dichlorobenzene	146	8.403	8.416	(0.987)	450632	50.0000	55.1	
*	19 1,4-Dichlorobenzene-D4	152	8.517	8.540	(1.000)	233471	40.0000		
	20 1,4-Dichlorobenzene	146	8.558	8.582	(1.005)	460521	50.0000	55.7	
	21 1,2-Dichlorobenzene	146	8.879	8.892	(1.043)	443392	50.0000	56.1	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
	22 Benzyl alcohol	108	8.910	8.954	(1.046)	268874	50.0000	55.5	
	24 Bis(2-Chloroisopropyl)ether	45	9.231	9.244	(1.084)	651415	50.0000	54.3	
	25 2,2'-Oxybis(1-chloropropane)	45	9.231	9.244	(1.084)	651415	50.0000	54.3	
	23 2-Methylphenol	108	9.221	9.254	(1.083)	382311	50.0000	54.5(M)	M9
	27 Acetophenone	105	9.438	9.472	(0.833)	563276	50.0000	55.6	
	32 Hexachloroethane	117	9.604	9.617	(1.128)	189306	50.0000	55.6	
	26 N-Nitrosopyrrolidine	100	9.417	9.523	(1.106)	195089	50.0000	55.3	
	29 o-Toluidine	106	9.521	9.555	(1.118)	594828	50.0000	55.0	
	28 N-Nitrosomorpholine	56	9.490	9.575	(1.114)	304479	50.0000	56.3	
	30 N-Nitroso-di-n-propylamine	70	9.521	9.596	(1.118)	300028	50.0000	54.8	
	31 3&4-Methylphenol	108	9.593	9.648	(1.126)	395041	50.0000	55.2	
$	33 Nitrobenzene-D5	82	9.738	9.772	(0.859)	435529	50.0000	55.2	
	34 Nitrobenzene	77	9.780	9.824	(0.863)	433910	50.0000	55.9	
	35 N-Nitrosopiperidine	114	10.121	10.176	(0.893)	202546	50.0000	54.4	
	36 Isophorone	82	10.359	10.403	(0.914)	800464	50.0000	54.7	
	37 2-Nitrophenol	139	10.504	10.527	(0.927)	224899	50.0000	55.1	
	38 2,4-Dimethylphenol	107	10.753	10.797	(0.949)	430188	50.0000	55.6	
	40 Bis(2-Chloroethoxy)methane	93	10.939	10.973	(0.965)	572122	50.0000	56.6	
	39 O,O,O-Triethylphosphorothioat	198	10.918	10.952	(0.963)	159445	50.0000	54.5	
	41 2,4-Dichlorophenol	162	11.094	11.128	(0.979)	315639	50.0000	56.5	
	43 1,2,4-Trichlorobenzene	180	11.239	11.252	(0.992)	356593	50.0000	57.3	
*	44 Naphthalene-D8	136	11.332	11.345	(1.000)	933058	40.0000		
	42 Benzoic acid	122	11.156	11.335	(0.984)	210801	50.0000	57.3(M)	M9
	45 Naphthalene	128	11.374	11.407	(1.004)	1079317	50.0000	55.8	
	49 A,A-Dimethylphenethylamine	58	11.694	12.287	(1.032)	1065911	50.0000	57.7(TM)	M9
	48 Hexachloropropene	213	11.622	11.635	(1.026)	231014	50.0000	57.6	
	47 2,6-Dichlorophenol	162	11.601	11.614	(1.024)	276388	50.0000	56.1	
	46 4-Chloroaniline	127	11.591	11.625	(1.023)	461345	50.0000	58.3	
	50 Hexachlorobutadiene	225	11.767	11.780	(1.038)	195569	50.0000	55.7	
	53 N-Nitroso-Di-N-Butylamine	84	12.481	12.525	(1.101)	343158	50.0000	63.4	
	52 Caprolactam	113	12.491	12.660	(1.102)	112472	50.0000	55.6(Q)	
	51 p-Phenylenediamine	108	12.460	12.525	(1.100)	323795	50.0000	58.3	
	55 Isosafrole	162	12.895	12.918	(1.138)	269075	50.0000	57.6	
	56 2-Methylnaphthalene	142	13.009	13.032	(1.148)	763583	50.0000	56.4	
	54 4-Chloro-3-Methylphenol	107	12.864	12.918	(1.135)	361939	50.0000	57.3(Q)	
	57 1-Methylnaphthalene	142	13.226	13.250	(1.167)	701959	50.0000	55.5	
	59 1,2,4,5-Tetrachlorobenzene	216	13.423	13.446	(0.869)	309242	50.0000	56.4	
	60 Hexachlorocyclopentadiene	237	13.444	13.457	(0.871)	246000	50.0000	59.0	
	61 2,4,6-Trichlorophenol	196	13.744	13.777	(0.890)	220912	50.0000	56.1	
$	63 2-Fluorobiphenyl	172	13.940	13.974	(0.903)	698583	50.0000	55.6	
	62 2,4,5-Trichlorophenol	196	13.827	13.871	(0.895)	239299	50.0000	57.0	
	64 Safrole	104	14.116	14.150	(0.914)	149452	50.0000	57.9(Q)	
	65 2-Chloronaphthalene	162	14.127	14.150	(0.915)	914416	50.0000	55.9(H)	
	66 1,1'-Biphenyl	154	14.147	14.181	(0.916)	761226	50.0000	54.0	
	67 1-Chloronaphthalene	162	14.179	14.212	(0.918)	599387	50.0000	55.4	
	68 Diphenylether	170	14.417	14.440	(0.934)	413590	50.0000	55.7	
	69 2-Nitroaniline	65	14.448	14.481	(0.936)	270359	50.0000	57.0	
	70 1,4-Naphthoquinone	158	14.561	14.585	(0.943)	177273	50.0000	61.0(M)	M9
	71 1,4-Dinitrobenzene	75	14.779	14.823	(0.957)	151784	50.0000	58.5	
	75 Acenaphthylene	152	15.089	15.113	(0.977)	1066132	50.0000	56.4	
	73 Dimethyl Phthalate	163	14.996	15.061	(0.971)	728993	50.0000	56.9	
	72 1,3-Dinitrobenzene	168	14.975	15.030	(0.970)	117862	50.0000	58.0	
	74 2,6-Dinitrotoluene	165	15.069	15.123	(0.976)	167383	50.0000	59.0	
	76 1,2-Dinitrobenzene	50	15.162	15.226	(0.982)	136913	50.0000	58.1	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)	REVIEW CODE
*	78 Acenaphthene-D10	164	15.441	15.454	(1.000)	447104	40.0000		
	79 Acenaphthene	153	15.514	15.547	(1.005)	657866	50.0000	56.8	
	77 3-Nitroaniline	138	15.441	15.506	(1.000)	197101	50.0000	56.3	
	80 2,4-Dinitrophenol	184	15.700	15.775	(1.017)	110281	50.0000	58.8	
	82 Dibenzofuran	168	15.938	15.972	(1.032)	870807	50.0000	56.6	
	81 Pentachlorobenzene	250	15.866	15.889	(1.027)	279753	50.0000	56.0	
	85 1-Naphthylamine	143	16.135	16.179	(1.045)	742579	50.0000	57.2	
	84 2,4-Dinitrotoluene	165	16.021	16.085	(1.038)	215565	50.0000	57.0	
	86 2,3,5,6-Tetrachlorophenol	232	16.197	16.230	(1.049)	196090	50.0000	58.5	
	88 2-Naphthylamine	143	16.342	16.396	(1.058)	724184	50.0000	56.9	
	83 4-Nitrophenol	139	16.021	16.096	(1.038)	139546	50.0000	57.0	
	87 2,3,4,6-Tetrachlorophenol	232	16.300	16.334	(1.056)	187460	50.0000	57.0	
	90 Fluorene	166	16.745	16.779	(1.084)	704109	50.0000	57.1	
	89 Diethylphthalate	149	16.694	16.738	(1.081)	791003	50.0000	57.5	
	91 4-Chlorophenyl-phenylether	204	16.828	16.851	(1.090)	330628	50.0000	56.6	
	93 O,O-diethyl-o-2-pyrazinylphos	107	16.870	16.913	(1.092)	152459	50.0000	56.0	
	92 5-Nitro-O-Toluidine	152	16.859	16.934	(1.092)	195284	50.0000	56.4	
	94 4-Nitroaniline	138	16.901	16.996	(1.095)	162672	50.0000	55.3(Q)	
	95 4,6-Dinitro-2-Methylphenol	198	16.973	17.048	(0.896)	129027	50.0000	55.6	
	96 N-Nitrosodiphenylamine	169	17.139	17.172	(0.905)	579786	50.0000	54.8	
	97 N-Nitrosodiphenylamine/DPA	169	17.139	17.172	(0.905)	579786	50.0000	54.8	
	98 1,2-Diphenylhydrazine	77	17.201	17.224	(0.908)	844644	50.0000	53.8	
	99 Azobenzene	77	17.201	17.224	(0.908)	844644	50.0000	53.8	
$	100 2,4,6-Tribromophenol	330	17.325	17.359	(1.122)	125473	50.0000	56.8	
	101 Sulfotepp	97	17.667	17.710	(0.933)	144467	50.0000	56.3	
	103 Diallate	86	17.894	17.917	(0.945)	293608	50.0000	54.1	
	105 4-Bromophenyl-phenylether	248	17.977	18.000	(0.949)	205782	50.0000	54.2	
	104 Phorate	75	17.884	17.928	(0.944)	620523	50.0000	56.2(H)	
	102 1,3,5-Trinitrobenzene	213	17.884	17.969	(0.944)	47188	50.0000	50.8(Q)	
	106 Phenacetin	108	18.018	18.114	(0.951)	366554	50.0000	55.5	
	107 Hexachlorobenzene	284	18.060	18.093	(0.954)	249927	50.0000	56.1	
	108 Dimethoate	87	18.267	18.331	(0.964)	258143	50.0000	55.9	
	109 Atrazine	200	18.536	18.570	(0.979)	159170	50.0000	57.0(H)	
	111 4-Aminobiphenyl	169	18.598	18.642	(0.982)	610392	50.0000	53.3	
	110 Pentachlorophenol	266	18.577	18.621	(0.981)	149924	50.0000	54.5	
	112 Pentachloronitrobenzene	237	18.598	18.632	(0.982)	87521	50.0000	54.9	
*	114 Phenanthrene-D10	188	18.940	18.963	(1.000)	784946	40.0000		
	113 Pronamide	173	18.898	18.942	(0.998)	297218	50.0000	54.5	
	115 Phenanthrene	178	18.991	19.025	(1.003)	1023755	50.0000	54.0	
	116 Anthracene	178	19.116	19.149	(1.009)	1003924	50.0000	55.2	
	118 Disulfoton	88	19.136	19.159	(1.010)	435073	50.0000	55.3	
	117 Dinoseb	211	19.126	19.147	(1.010)	151994	50.0000	54.9(Q)	
	119 Carbazole	167	19.561	19.594	(1.033)	787470	50.0000	52.7	
	120 Methyl Parathion	109	19.995	20.008	(1.056)	242763	50.0000	55.9	
	121 Di-n-butylphthalate	149	20.627	20.650	(1.089)	1228138	50.0000	53.2	
	122 4-Nitroquinoline-1-Oxide	190	20.865	20.898	(1.102)	53768	50.0000	49.4	
	123 Ethyl Parathion	291	20.968	20.991	(1.107)	61014	50.0000	51.7	
	124 Methapyrilene	97	20.968	20.991	(1.107)	151734	50.0000	53.2(Q)	
	125 Isodrin	193	21.444	21.457	(1.132)	123802	50.0000	54.8	
	126 Fluoranthene	202	21.807	21.830	(1.151)	888534	50.0000	52.0	
	128 Pyrene	202	22.314	22.337	(0.885)	914662	50.0000	50.0	
	127 Benzidine	184	22.252	22.265	(0.883)	260965	50.0000	53.7	
$	129 Terphenyl-D14	244	22.852	22.865	(0.906)	586436	50.0000	48.9	
	130 Aramite	185	23.142	23.155	(0.918)	54124	50.0000	49.5	