Data File: /chem1/nt6.i/20100723.b/07231001.D

Date : 23-JUL-2010 15:01

Client ID: IC250723

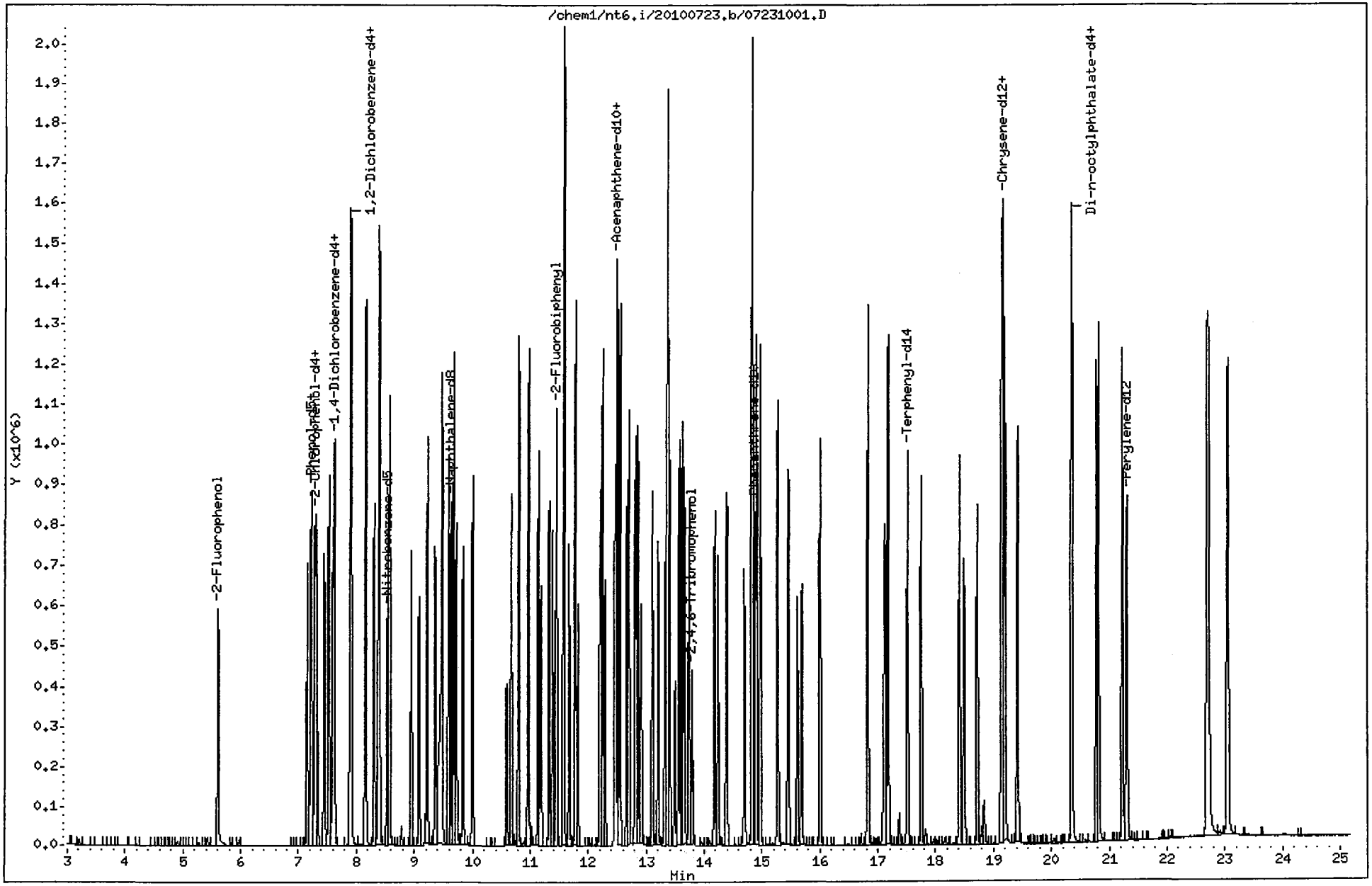
Sample Info: IC250723

Instrument: nt6.i

Operator: JZ

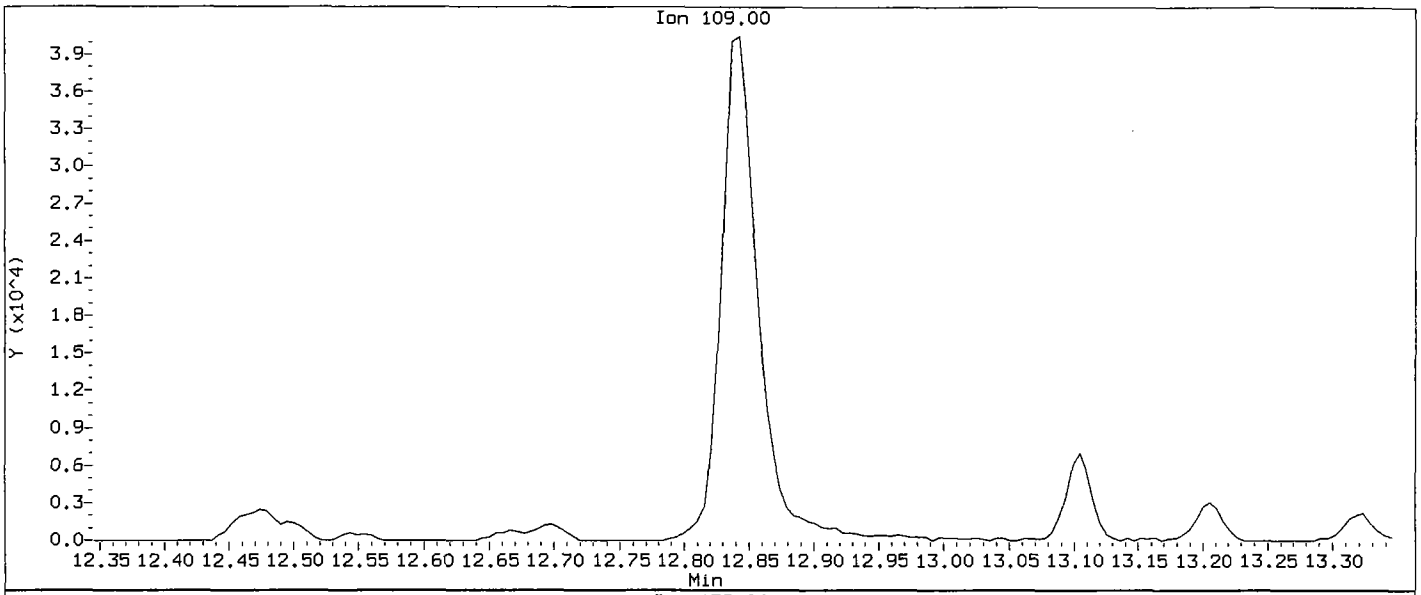
Column phase: ZB-5msi

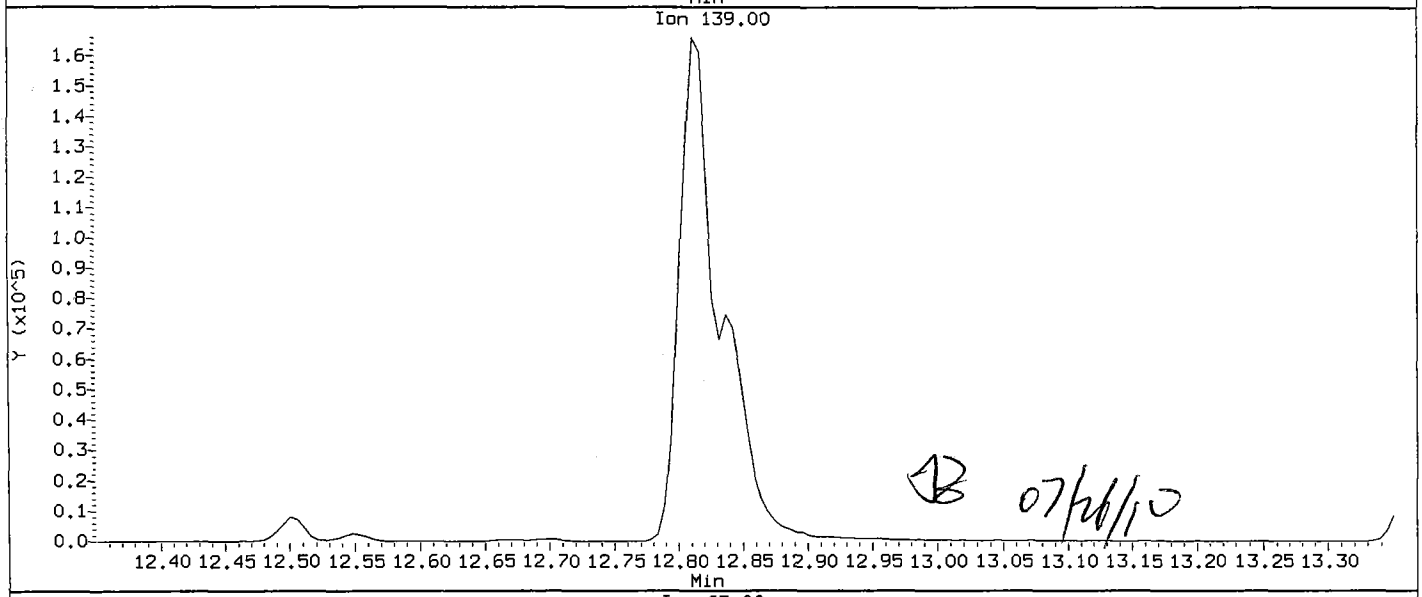
Column diameter: 0.32

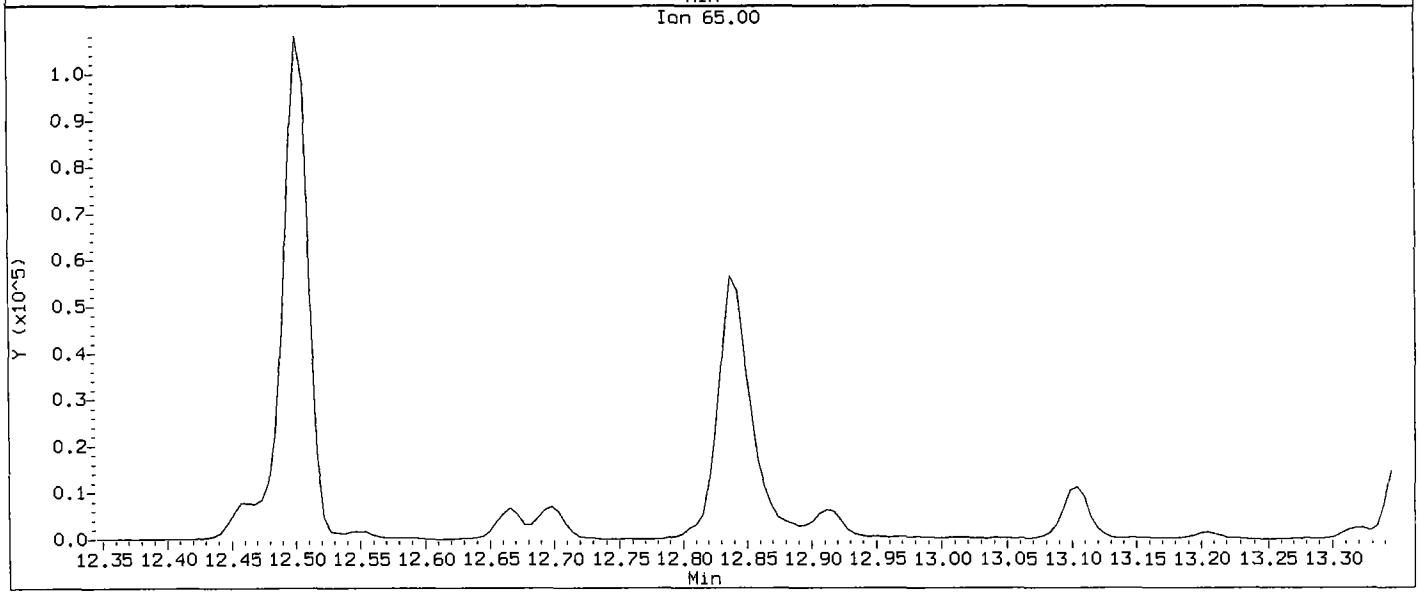


Data File: /chem1/nt6.i/20100723.b/07231001.D
Injection Date: 23-JUL-2010 15:01
Instrument: nt6.i
Client Sample ID: IC250723

Compound: 4-Nitrophenol
CAS Number: 100-02-7

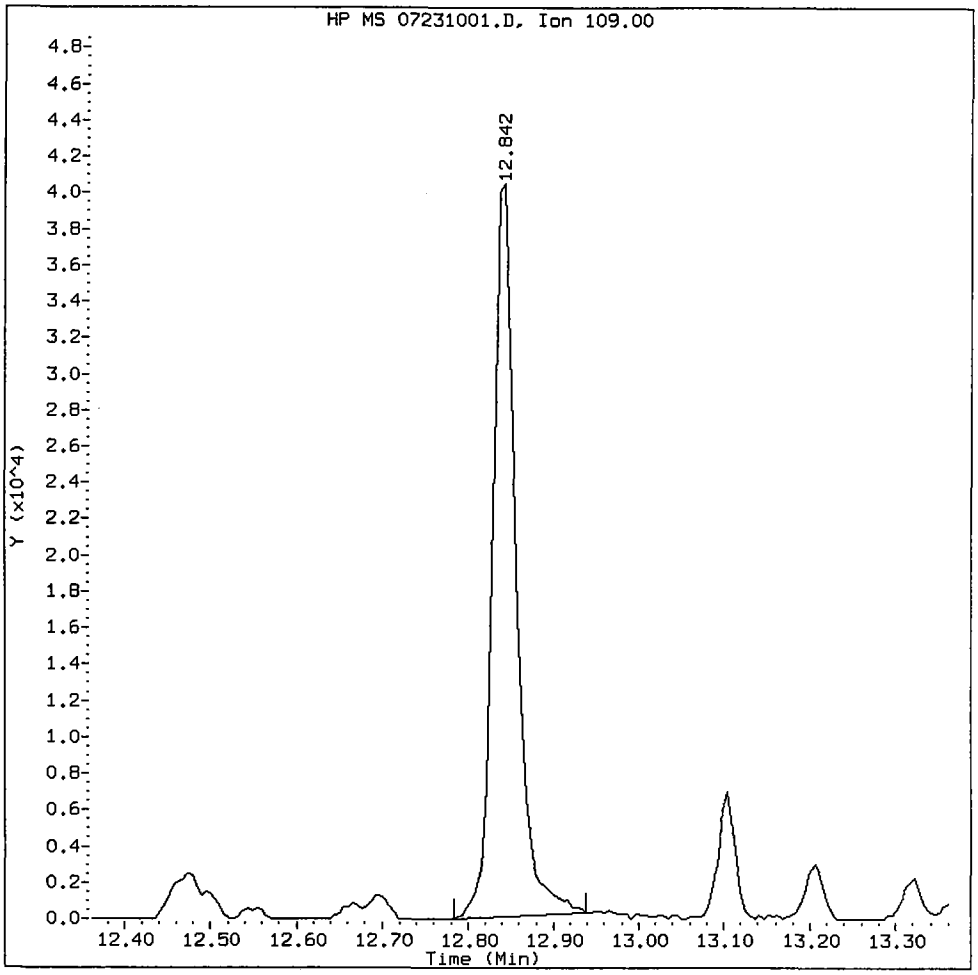






IC250723, /chem1/nt6.i/20100723.b/07231001.D

4-Nitrophenol Amount: 26.89 Area: 78303



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 07/16/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231005.D
Lab Smp Id: IC400723 Client Smp ID: IC400723
Inj Date : 23-JUL-2010 17:29
Operator : JZ Inst ID: nt6.i
Smp Info : IC400723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 17:29 Cal File: 07231005.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/26/10

AMOUNTS

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	5.605	5.610	(0.738)	478107	40.0000	39.70
$	2	Phenol-d5	99	7.213	7.218	(0.950)	523138	40.0000	37.21
	3	Phenol	94	7.229	7.237	(0.952)	573376	40.0000	35.94
$	5	2-Chlorophenol-d4	132	7.298	7.303	(0.961)	436515	40.0000	36.73
	4	Bis(2-Chloroethyl)ether	93	7.282	7.290	(0.959)	455918	40.0000	37.52
	6	2-Chlorophenol	128	7.320	7.327	(0.964)	498989	40.0000	36.31
	7	1,3-Dichlorobenzene	146	7.528	7.530	(0.992)	602247	40.0000	37.59
*	8	1,4-Dichlorobenzene-d4	152	7.592	7.595	(1.000)	179813	20.0000	
	9	1,4-Dichlorobenzene	146	7.619	7.621	(1.004)	597463	40.0000	38.22
$	10	1,2-Dichlorobenzene-d4	152	7.891	7.896	(1.039)	313019	40.0000	38.17
	12	1,2-Dichlorobenzene	146	7.913	7.915	(1.042)	541681	40.0000	37.00
	11	Benzyl alcohol	108	7.902	7.910	(1.041)	293342	40.0000	40.07
	14	2,2'-oxybis(1-Chloropropane)	45	8.158	8.161	(1.075)	488359	40.0000	37.54
	13	2-Methylphenol	108	8.158	8.166	(1.075)	439877	40.0000	37.15
	17	Hexachloroethane	117	8.399	8.406	(1.106)	214765	40.0000	37.73
	16	N-Nitroso-di-n-propylamine	70	8.383	8.390	(1.104)	316516	40.0000	38.46
	15	4-Methylphenol	108	8.399	8.406	(1.106)	435625	40.0000	36.84
$	18	Nitrobenzene-d5	82	8.538	8.542	(0.885)	446362	40.0000	38.77
	19	Nitrobenzene	77	8.570	8.572	(0.888)	485333	40.0000	36.97
	20	Isophorone	82	8.954	8.967	(0.928)	791586	40.0000	38.38
	21	2-Nitrophenol	139	9.082	9.090	(0.941)	297585	40.0000	39.96
	22	2,4-Dimethylphenol	107	9.227	9.234	(0.956)	466959	40.0000	36.98
	23	Bis(2-Chloroethoxy)methane	93	9.365	9.373	(0.971)	547954	40.0000	38.22
	24	Benzoic acid	105	9.520	9.603	(0.987)	761553	80.0000	88.65
	25	2,4-Dichlorophenol	162	9.478	9.485	(0.982)	415729	40.0000	38.19
	26	1,2,4-Trichlorobenzene	180	9.595	9.597	(0.994)	456415	40.0000	37.79
*	27	Naphthalene-d8	136	9.649	9.651	(1.000)	584978	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.675	9.683	(1.003)	1270631	40.0000	36.12
	29 4-Chloroaniline	127	9.841	9.843	(1.020)	516764	40.0000	37.11
	30 Hexachlorobutadiene	225	10.006	10.009	(1.037)	268712	40.0000	38.89
	31 4-Chloro-3-methylphenol	107	10.674	10.682	(1.106)	406596	40.0000	38.67
	32 2-Methylnaphthalene	141	10.797	10.805	(1.119)	699508	40.0000	36.82
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.894)	275445	40.0000	49.97
	34 2,4,6-Trichlorophenol	196	11.326	11.333	(0.906)	298271	40.0000	39.62
	35 2,4,5-Trichlorophenol	196	11.384	11.392	(0.911)	307523	40.0000	39.60
$	36 2-Fluorobiphenyl	172	11.454	11.453	(0.916)	849457	40.0000	36.06
	37 2-Chloronaphthalene	162	11.577	11.579	(0.926)	831977	40.0000	36.25
	38 2-Nitroaniline	65	11.828	11.835	(0.946)	221096	40.0000	40.57
	39 Dimethylphthalate	163	12.207	12.220	(0.976)	974193	40.0000	38.43
	40 Acenaphthylene	152	12.250	12.252	(0.980)	1297887	40.0000	36.13
	41 2,6-Dinitrotoluene	165	12.298	12.305	(0.984)	239593	40.0000	41.37
*	42 Acenaphthene-d10	164	12.501	12.503	(1.000)	327933	20.0000	
	43 3-Nitroaniline	138	12.506	12.519	(1.000)	203699	40.0000	37.22
	44 Acenaphthene	153	12.554	12.562	(1.004)	826657	40.0000	37.71
	45 2,4-Dinitrophenol	184	12.672	12.690	(1.014)	374074	80.0000	99.17
	46 Dibenzofuran	168	12.816	12.823	(1.025)	1085318	40.0000	37.16
	47 4-Nitrophenol	109	12.842	12.861	(1.027)	129026	40.0000	42.60
	48 2,4-Dinitrotoluene	165	12.917	12.930	(1.033)	315304	40.0000	42.37
	50 Diethylphthalate	149	13.366	13.368	(1.069)	853959	40.0000	36.04
	49 Fluorene	166	13.371	13.379	(1.070)	916824	40.0000	36.55
	51 4-Chlorophenyl-phenylether	204	13.409	13.411	(1.073)	470235	40.0000	39.20
	52 4-Nitroaniline	138	13.505	13.523	(1.080)	232223	40.0000	41.03
	53 4,6-Dinitro-2-methylphenol	198	13.574	13.593	(0.913)	427429	80.0000	83.76
	54 N-Nitrosodiphenylamine	169	13.617	13.630	(0.916)	701173	40.0000	37.56
$	55 2,4,6-Tribromophenol	330	13.793	13.798	(1.103)	126637	40.0000	43.05
	56 4-Bromophenyl-phenylether	248	14.183	14.185	(0.954)	311111	40.0000	39.90
	57 Hexachlorobenzene	284	14.391	14.399	(0.968)	320970	40.0000	38.86
	58 Pentachlorophenol	266	14.696	14.704	(0.988)	212167	40.0000	46.95
*	59 Phenanthrene-d10	188	14.867	14.869	(1.000)	525448	20.0000	
	60 Phenanthrene	178	14.904	14.912	(1.002)	1256713	40.0000	36.54
	61 Anthracene	178	14.974	14.987	(1.007)	1305609	40.0000	36.63
	62 Carbazole	167	15.273	15.280	(1.027)	1186045	40.0000	35.94
	63 Di-n-butylphthalate	149	16.004	16.012	(1.077)	1500393	40.0000	37.06
	64 Fluoranthene	202	16.827	16.835	(1.132)	1385977	40.0000	37.10
	65 Pyrene	202	17.179	17.187	(0.896)	1346276	40.0000	36.18
$	66 Terphenyl-d14	244	17.516	17.515	(0.914)	801457	40.0000	37.83
	67 Butylbenzylphthalate	149	18.413	18.421	(0.961)	691617	40.0000	39.94
	68 Benzo(a)anthracene	228	19.140	19.147	(0.999)	1310404	40.0000	37.25
*	69 Chrysene-d12	240	19.166	19.169	(1.000)	593530	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.166	19.174	(1.000)	420101	40.0000	36.85
	71 Chrysene	228	19.204	19.217	(1.002)	1223597	40.0000	36.98
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	938469	40.0000	39.60
*	134 Di-n-octylphthalate-d4	153	20.347	20.354	(1.000)	734023	20.0000	
	73 Di-n-octylphthalate	149	20.357	20.360	(1.001)	1521034	40.0000	36.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.790	20.803	(0.976)	1434589	40.0000	38.74
75	Benzo(k)fluoranthene	252	20.822	20.840	(0.977)	1367201	40.0000	34.31
187	Total Benzofluoranthenes	252	20.822	20.840	(0.977)	2643068	80.0000	72.56
76	Benzo(a)pyrene	252	21.233	21.246	(0.996)	1331524	40.0000	37.91
* 77	Perylene-d12	264	21.308	21.316	(1.000)	534102	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.707	22.720	(1.066)	1785536	40.0000	38.43
79	Dibenzo(a,h)anthracene	278	22.729	22.747	(1.067)	1387194	40.0000	38.69
80	Benzo(g,h,i)perylene	276	23.065	23.089	(1.082)	1604879	40.0000	38.14
90	N-Nitrosodimethylamine	74	2.732	2.750	(0.360)	310807	40.0000	39.63
103	Pyridine	79	2.694	2.702	(0.355)	579976	40.0000	41.86
91	Aniline	93	7.154	7.157	(0.942)	696532	40.0000	38.40
105	1-methylnaphthalene	141	10.968	10.975	(1.137)	725171	40.0000	37.03
93	Benzidine	184	17.099	17.107	(0.892)	394646	40.0000	32.65
111	Azobenzene (1,2-DP-Hydrazine)	77	13.654	13.667	(1.092)	904684	40.0000	37.74
143	1,4-Dioxane	88	2.155	2.168	(0.284)	207666	40.0000	40.16
$ 137	d8-1,4-Dioxane	96	2.112	2.125	(0.278)	206960	40.0000	40.83
144	alpha-Terpineol	59	9.723	9.731	(1.008)	282130	40.0000	39.60
98	Retene	219	17.751	17.759	(0.926)	492059	40.0000	40.05
133	Butylatedhydroxytoluene	205	12.698	12.706	(1.016)	701480	40.0000	36.25
115	Tributyl Phosphate	99	13.745	13.763	(0.925)	1084412	40.0000	37.48
116	Dibutyl Phenyl Phosphate	175	15.454	15.457	(1.040)	777710	40.0000	39.89
117	Butyl Diphenyl Phosphate	94	17.126	17.134	(0.894)	253920	40.0000	39.24
118	Triphenyl Phosphate	326	18.723	18.731	(0.977)	259068	40.0000	41.25
123	Acetophenone	105	8.308	8.316	(1.094)	621273	40.0000	39.17
179	n-Decane	57	7.448	7.450	(0.981)	396980	40.0000	37.80
180	n-Octadecane	57	14.829	14.832	(0.997)	386562	40.0000	35.13
168	Pentachlorobenzene	250	12.858	12.866	(1.029)	361056	40.0000	39.43
113	Diphenyl Oxide	170	11.780	11.782	(0.942)	805094	40.0000	36.43
112	Biphenyl	154	11.582	11.590	(0.926)	911660	40.0000	36.39
120	2,3,4,6-Tetrachlorophenol	232	13.110	13.112	(1.049)	292380	40.0000	43.28
151	1,2,4,5-Tetrachlorobenzene	216	11.139	11.141	(0.891)	455577	40.0000	38.01
110	Tetrachloroguaiacol	247	14.829	14.842	(0.997)	326377	80.0000	79.63
109	3,4,5-Trichloroguaiacol	213	13.211	13.219	(0.889)	165311	40.0000	40.07
181	3,4,6-Trichloroguaiacol	211	13.323	13.331	(1.755)	199643	40.0000	43.13
108	4,5,6-Trichloroguaiacol	213	14.242	14.250	(1.139)	167783	40.0000	41.33
184	3,4-Dichloroguaiacol	192	11.673	11.675	(1.537)	174240	40.0000	42.69
107	4,5-Dichloroguaiacol	192	12.469	12.476	(0.997)	416165	80.0000	80.22
182	4,6-Dichloroguaiacol	192	12.469	12.476	(1.642)	416165	80.0000	83.01
185	4-Chloroguaiacol	115	10.594	10.596	(1.395)	107719	20.0000	20.93
186	Carbaryl	144	15.689	15.702	(1.055)	632465	40.0000	42.62
106	Guaiacol	124	8.580	8.588	(1.130)	427217	40.0000	38.56

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231005.D
Lab Smp Id: IC400723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC400723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	179813	-1.63
27 Naphthalene-d8	584137	292068	1168274	584978	0.14
42 Acenaphthene-d10	320442	160221	640884	327933	2.34
59 Phenanthrene-d10	503793	251896	1007586	525448	4.30
69 Chrysene-d12	532343	266172	1064686	593530	11.49
134 Di-n-octylphthala	719428	359714	1438856	734023	2.03
77 Perylene-d12	517269	258634	1034538	534102	3.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.00
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.06
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.04
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.03
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.31	0.00

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.

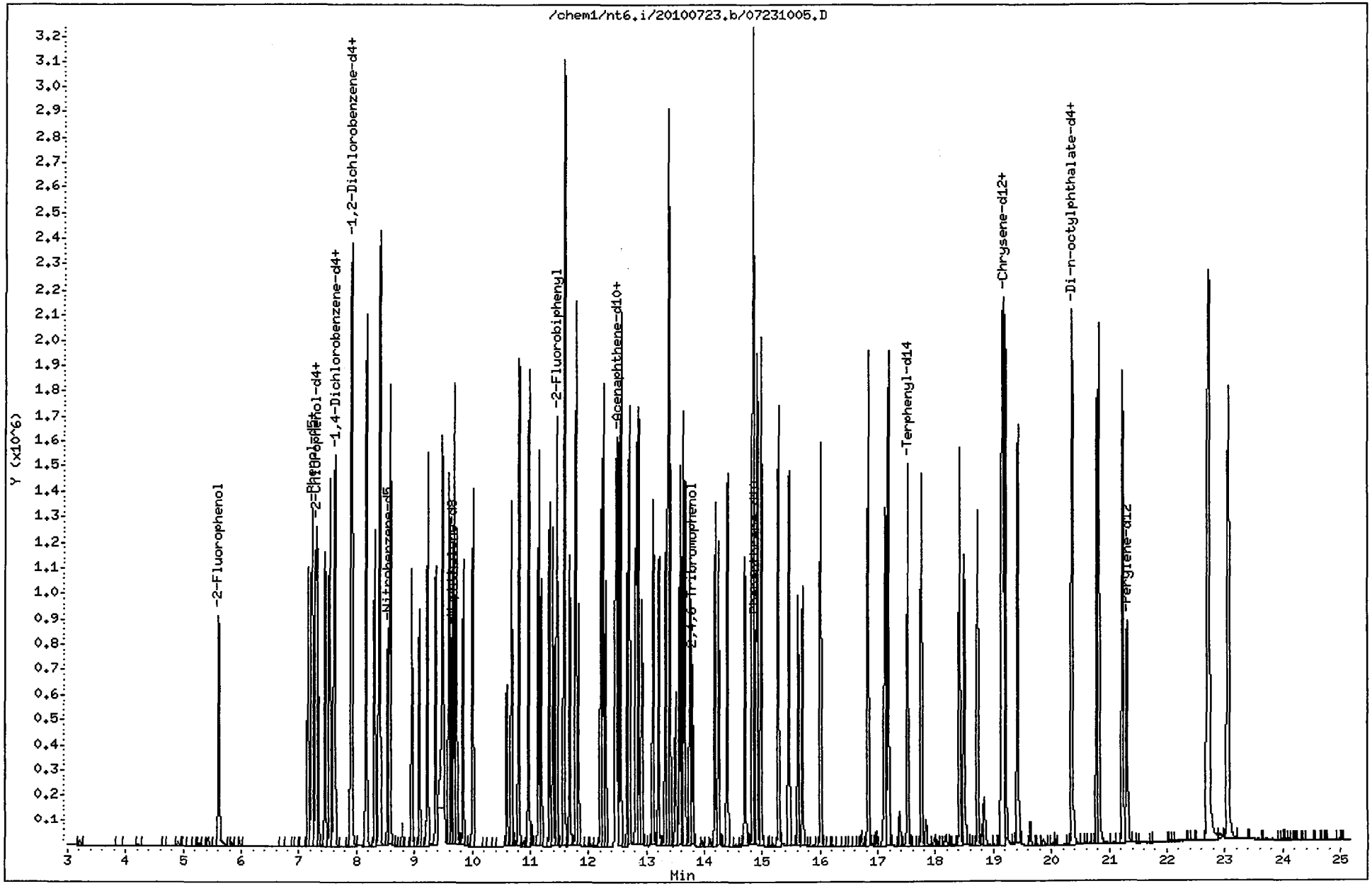
Data File: /chem1/nt6.i/20100723.b/07231005.D
Date : 23-JUL-2010 17:29
Client ID: IC400723
Sample Info: IC400723,

Instrument: nt6.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi

RG9H:66727



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231006.D
Lab Smp Id: IC600723 Client Smp ID: IC600723
Inj Date : 23-JUL-2010 18:01
Operator : JZ Inst ID: nt6.i
Smp Info : IC600723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:01 Cal File: 07231006.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/26/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.610	5.610	(0.738)	707424	60.0000	57.57
$	2 Phenol-d5	99	7.218	7.218	(0.950)	771071	60.0000	54.33
	3 Phenol	94	7.239	7.237	(0.953)	847974	60.0000	52.90
$	5 2-Chlorophenol-d4	132	7.303	7.303	(0.961)	648248	60.0000	54.08
	4 Bis(2-Chloroethyl)ether	93	7.287	7.290	(0.959)	659456	60.0000	53.84
	6 2-Chlorophenol	128	7.325	7.327	(0.964)	749255	60.0000	54.06
	7 1,3-Dichlorobenzene	146	7.533	7.530	(0.992)	878759	60.0000	54.34
*	8 1,4-Dichlorobenzene-d4	152	7.597	7.595	(1.000)	184946	20.0000	
	9 1,4-Dichlorobenzene	146	7.624	7.621	(1.004)	868746	60.0000	54.94
$	10 1,2-Dichlorobenzene-d4	152	7.896	7.896	(1.039)	463869	60.0000	55.77
	12 1,2-Dichlorobenzene	146	7.918	7.915	(1.042)	777966	60.0000	52.89
	11 Benzyl alcohol	108	7.907	7.910	(1.041)	432282	60.0000	57.83
	14 2,2'-oxybis(1-Chloropropane)	45	8.163	8.161	(1.075)	708425	60.0000	54.01
	13 2-Methylphenol	108	8.163	8.166	(1.075)	658836	60.0000	55.00
	17 Hexachloroethane	117	8.404	8.406	(1.106)	308477	60.0000	53.78
	16 N-Nitroso-di-n-propylamine	70	8.388	8.390	(1.104)	454211	60.0000	54.62
	15 4-Methylphenol	108	8.404	8.406	(1.106)	631240	60.0000	53.10
$	18 Nitrobenzene-d5	82	8.542	8.542	(0.885)	662173	60.0000	56.11
	19 Nitrobenzene	77	8.574	8.572	(0.889)	697353	60.0000	52.44
	20 Isophorone	82	8.959	8.967	(0.929)	1168591	60.0000	55.40
	21 2-Nitrophenol	139	9.087	9.090	(0.942)	458514	60.0000	59.41
	22 2,4-Dimethylphenol	107	9.231	9.234	(0.957)	699441	60.0000	54.35
	23 Bis(2-Chloroethoxy)methane	93	9.370	9.373	(0.971)	803647	60.0000	54.90
	24 Benzoic acid	105	9.568	9.603	(0.992)	1222479	120.000	133.3(M)
	25 2,4-Dichlorophenol	162	9.482	9.485	(0.983)	639889	60.0000	57.14
	26 1,2,4-Trichlorobenzene	180	9.595	9.597	(0.994)	663284	60.0000	53.96
*	27 Naphthalene-d8	136	9.648	9.651	(1.000)	607475	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.680	9.683	(1.003)	1781924	60.0000	50.35
	29 4-Chloroaniline	127	9.840	9.843	(1.020)	734328	60.0000	52.12
	30 Hexachlorobutadiene	225	10.006	10.009	(1.037)	405523	60.0000	57.07
	31 4-Chloro-3-methylphenol	107	10.679	10.682	(1.107)	612255	60.0000	56.70
	32 2-Methylnaphthalene	141	10.802	10.805	(1.120)	1018025	60.0000	52.84
	33 Hexachlorocyclopentadiene	237	11.181	11.184	(0.894)	425348	60.0000	71.46
	34 2,4,6-Trichlorophenol	196	11.330	11.333	(0.906)	465479	60.0000	59.61
	35 2,4,5-Trichlorophenol	196	11.389	11.392	(0.911)	483158	60.0000	59.92
$	36 2-Fluorobiphenyl	172	11.453	11.453	(0.916)	1244640	60.0000	52.20
	37 2-Chloronaphthalene	162	11.576	11.579	(0.926)	1199578	60.0000	51.72
	38 2-Nitroaniline	65	11.832	11.835	(0.947)	335276	60.0000	59.36
	39 Dimethylphthalate	163	12.217	12.220	(0.977)	1436593	60.0000	55.40
	40 Acenaphthylene	152	12.249	12.252	(0.980)	1817418	60.0000	50.29
	41 2,6-Dinitrotoluene	165	12.303	12.305	(0.984)	371177	60.0000	61.42
*	42 Acenaphthene-d10	164	12.500	12.503	(1.000)	340603	20.0000	
	43 3-Nitroaniline	138	12.516	12.519	(1.001)	274842	60.0000	49.96
	44 Acenaphthene	153	12.559	12.562	(1.005)	1199130	60.0000	53.76
	45 2,4-Dinitrophenol	184	12.682	12.690	(1.015)	605790	120.000	146.2
	46 Dibenzofuran	168	12.821	12.823	(1.026)	1586285	60.0000	53.43
	47 4-Nitrophenol	109	12.853	12.861	(1.028)	193631	60.0000	61.29(M)
	48 2,4-Dinitrotoluene	165	12.927	12.930	(1.034)	481845	60.0000	61.94
	50 Diethylphthalate	149	13.371	13.368	(1.070)	1322312	60.0000	54.69
	49 Fluorene	166	13.376	13.379	(1.070)	1324287	60.0000	52.16
	51 4-Chlorophenyl-phenylether	204	13.408	13.411	(1.073)	706929	60.0000	57.25
	52 4-Nitroaniline	138	13.515	13.523	(1.081)	357914	60.0000	60.74
	53 4,6-Dinitro-2-methylphenol	198	13.584	13.593	(0.914)	680240	120.000	126.2
	54 N-Nitrosodiphenylamine	169	13.622	13.630	(0.916)	1042005	60.0000	54.50
$	55 2,4,6-Tribromophenol	330	13.798	13.798	(1.104)	200710	60.0000	64.67
	56 4-Bromophenyl-phenylether	248	14.183	14.185	(0.954)	469752	60.0000	58.12
	57 Hexachlorobenzene	284	14.391	14.399	(0.968)	487833	60.0000	57.16
	58 Pentachlorophenol	266	14.701	14.704	(0.989)	343904	60.0000	70.42
*	59 Phenanthrene-d10	188	14.866	14.869	(1.000)	548107	20.0000	
	60 Phenanthrene	178	14.909	14.912	(1.003)	1811434	60.0000	51.86
	61 Anthracene	178	14.978	14.987	(1.008)	1861671	60.0000	51.49
	62 Carbazole	167	15.272	15.280	(1.027)	1724877	60.0000	51.52
	63 Di-n-butylphthalate	149	16.009	16.012	(1.077)	2137856	60.0000	51.97
	64 Fluoranthene	202	16.832	16.835	(1.132)	1967573	60.0000	51.86
	65 Pyrene	202	17.184	17.187	(0.897)	1926828	60.0000	54.12
$	66 Terphenyl-d14	244	17.515	17.515	(0.914)	1184437	60.0000	57.75
	67 Butylbenzylphthalate	149	18.413	18.421	(0.961)	1016920	60.0000	60.17
	68 Benzo(a)anthracene	228	19.144	19.147	(0.999)	1907368	60.0000	56.27
*	69 Chrysene-d12	240	19.166	19.169	(1.000)	578965	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.166	19.174	(1.000)	614208	60.0000	55.97
	71 Chrysene	228	19.209	19.217	(1.002)	1763657	60.0000	55.47
	72 bis(2-Ethylhexyl)phthalate	149	19.417	19.420	(0.954)	1365056	60.0000	57.33
*	134 Di-n-octylphthalate-d4	153	20.346	20.354	(1.000)	744081	20.0000	
	73 Di-n-octylphthalate	149	20.362	20.360	(1.001)	2171789	60.0000	52.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.795	20.803	(0.976)	2108839	60.0000	54.16
75	Benzo(k)fluoranthene	252	20.832	20.840	(0.978)	1999749	60.0000	48.59
187	Total Benzofluoranthenes	252	20.832	20.840	(0.978)	3887015	120.000	102.4
76	Benzo(a)pyrene	252	21.238	21.246	(0.997)	1975913	60.0000	53.59
* 77	Perylene-d12	264	21.308	21.316	(1.000)	572566	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.712	22.720	(1.066)	2716552	60.0000	55.38
79	Dibenzo(a,h)anthracene	278	22.739	22.747	(1.067)	2095539	60.0000	55.36
80	Benzo(g,h,i)perylene	276	23.075	23.089	(1.083)	2430911	60.0000	54.82
90	N-Nitrosodimethylamine	74	2.742	2.750	(0.361)	461166	60.0000	57.63
103	Pyridine	79	2.705	2.702	(0.356)	860099	60.0000	60.30
91	Aniline	93	7.159	7.157	(0.942)	1005247	60.0000	54.81
105	1-methylnaphthalene	141	10.973	10.975	(1.137)	1058350	60.0000	53.22
93	Benzidine	184	17.104	17.107	(0.892)	575385	60.0000	50.37
111	Azobenzene (1,2-DP-Hydrazine)	77	13.659	13.667	(1.093)	1300956	60.0000	53.40
143	1,4-Dioxane	88	2.165	2.168	(0.285)	310488	60.0000	58.64
$ 137	d8-1,4-Dioxane	96	2.122	2.125	(0.279)	315891	60.0000	60.49
144	alpha-Terpineol	59	9.728	9.731	(1.008)	427485	60.0000	58.13
98	Retene	219	17.756	17.759	(0.926)	752823	60.0000	62.33
133	Butylatedhydroxytoluene	205	12.703	12.706	(1.016)	1051020	60.0000	53.44
115	Tributyl Phosphate	99	13.755	13.763	(0.925)	1619252	60.0000	54.62
116	Dibutyl Phenyl Phosphate	175	15.454	15.457	(1.040)	1173813	60.0000	58.09
117	Butyl Diphenyl Phosphate	94	17.131	17.134	(0.894)	389020	60.0000	61.35
118	Triphenyl Phosphate	326	18.722	18.731	(0.977)	410539	60.0000	65.73
123	Acetophenone	105	8.313	8.316	(1.094)	917180	60.0000	56.82
179	n-Decane	57	7.453	7.450	(0.981)	581639	60.0000	54.78
180	n-Octadecane	57	14.829	14.832	(0.997)	552713	60.0000	49.79
168	Pentachlorobenzene	250	12.863	12.866	(1.029)	542976	60.0000	57.56
113	Diphenyl Oxide	170	11.779	11.782	(0.942)	1187278	60.0000	52.95
112	Biphenyl	154	11.587	11.590	(0.927)	1302449	60.0000	51.77
120	2,3,4,6-Tetrachlorophenol	232	13.109	13.112	(1.049)	464221	60.0000	65.05
151	1,2,4,5-Tetrachlorobenzene	216	11.138	11.141	(0.891)	701362	60.0000	56.91
110	Tetrachloroguaiacol	247	14.834	14.842	(0.998)	504715	120.000	118.4
109	3,4,5-Trichloroguaiacol	213	13.210	13.219	(0.889)	260835	60.0000	60.48
181	3,4,6-Trichloroguaiacol	211	13.328	13.331	(1.754)	313950	60.0000	64.67
108	4,5,6-Trichloroguaiacol	213	14.247	14.250	(1.140)	264245	60.0000	62.12
184	3,4-Dichloroguaiacol	192	11.672	11.675	(1.536)	272767	60.0000	63.91
107	4,5-Dichloroguaiacol	192	12.468	12.476	(0.997)	650083	120.000	120.5
182	4,6-Dichloroguaiacol	192	12.468	12.476	(1.641)	650734	120.000	124.9
185	4-Chloroguaiacol	115	10.593	10.596	(1.394)	167281	30.0000	31.27
186	Carbaryl	144	15.694	15.702	(1.056)	932958	60.0000	60.23
106	Guaiacol	124	8.585	8.588	(1.130)	647516	60.0000	57.33

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231006.D
Lab Smp Id: IC600723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC600723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	184946	1.18
27 Naphthalene-d8	584137	292068	1168274	607475	4.00
42 Acenaphthene-d10	320442	160221	640884	340603	6.29
59 Phenanthrene-d10	503793	251896	1007586	548107	8.80
69 Chrysene-d12	532343	266172	1064686	578965	8.76
134 Di-n-octylphthala	719428	359714	1438856	744081	3.43
77 Perylene-d12	517269	258634	1034538	572566	10.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.60	0.07
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.05
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.03
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.03
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.00
77 Perylene-d12	21.31	20.81	21.81	21.31	0.00

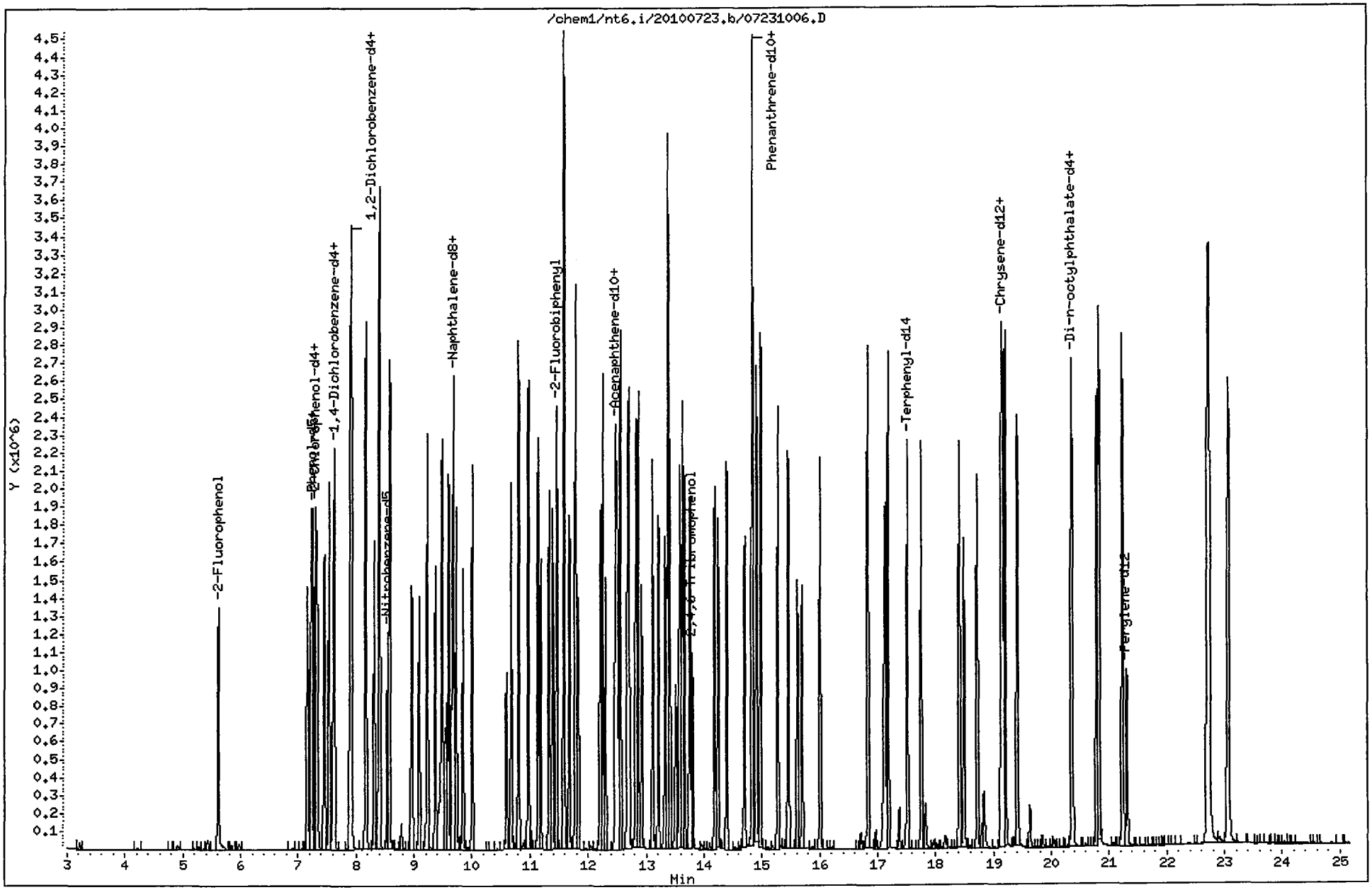
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20100723.b/07231006.D
Date : 23-JUL-2010 18:01
Client ID: IC600723
Sample Info: IC600723,

Instrument: nt6.i

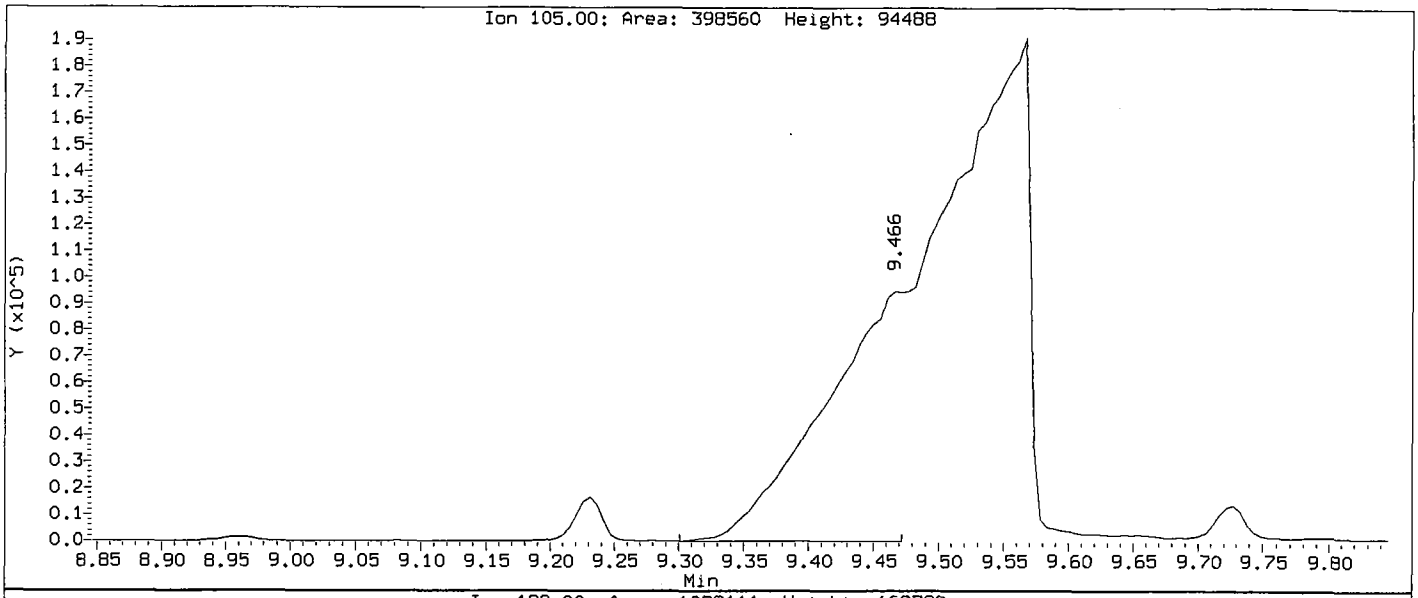
Operator: JZ
Column diameter: 0.32

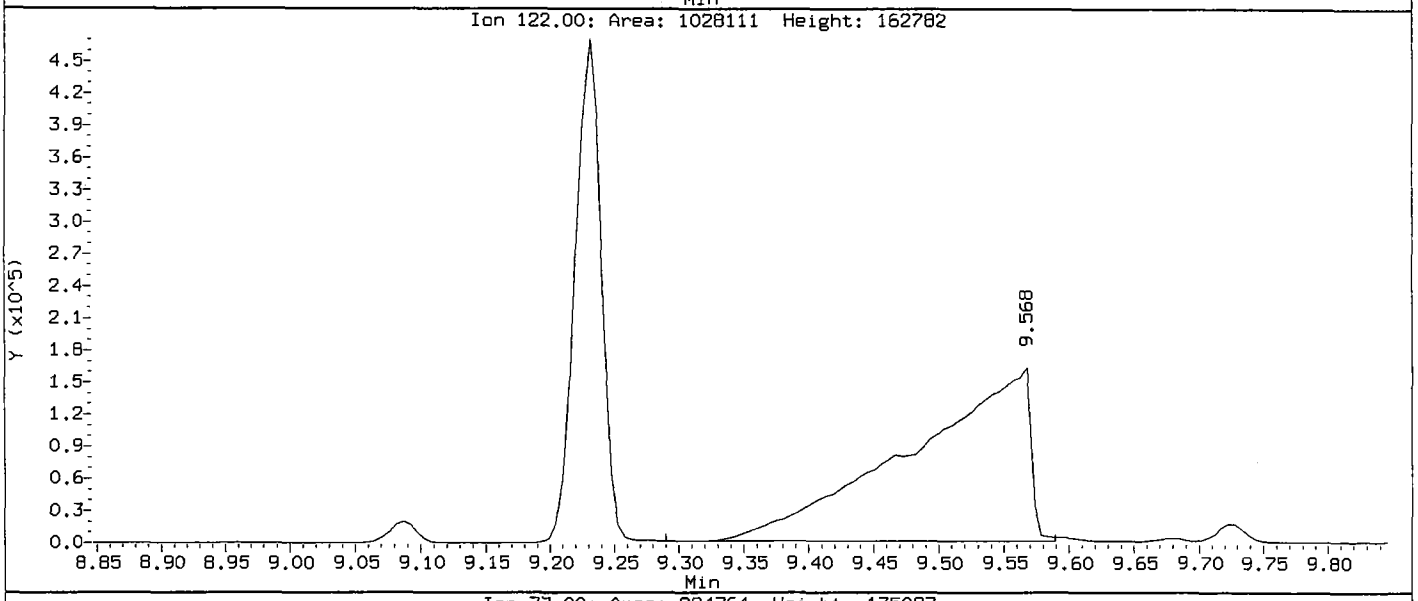
Column phase: ZB-5msi

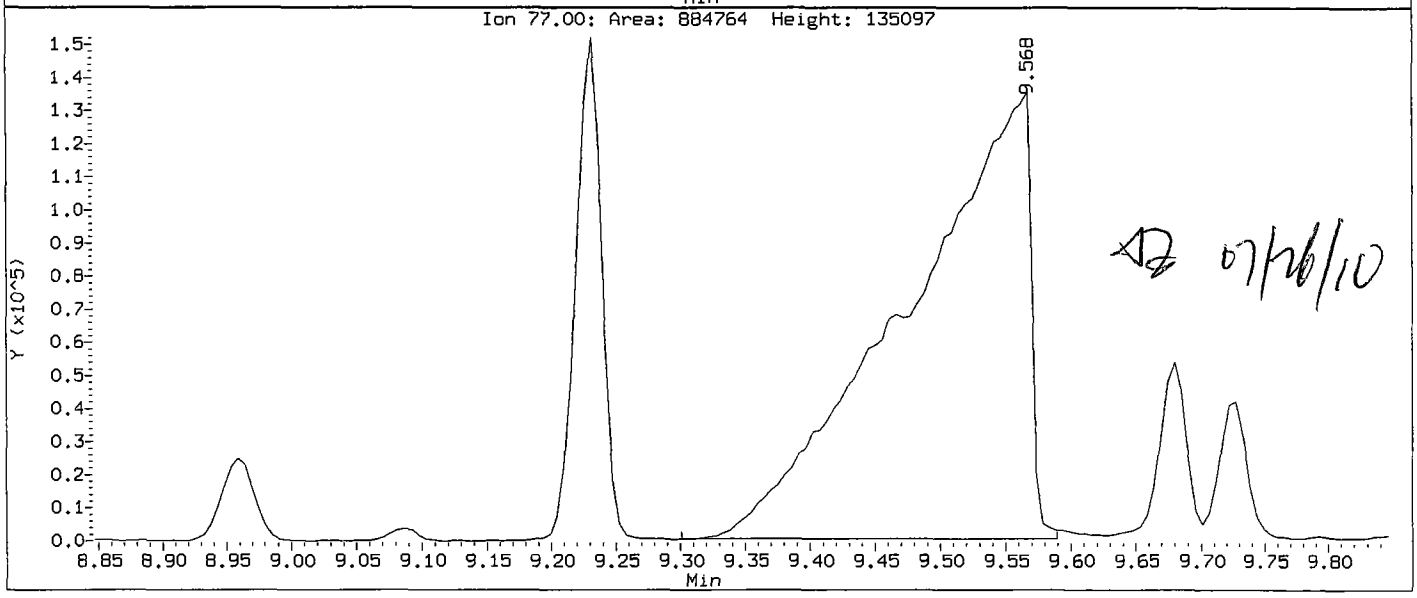


Data File: /chem1/nt6.i/20100723.b/07231006.D
Injection Date: 23-JUL-2010 18:01
Instrument: nt6.i
Client Sample ID: IC600723

Compound: Benzoic acid
CAS Number: 65-85-0





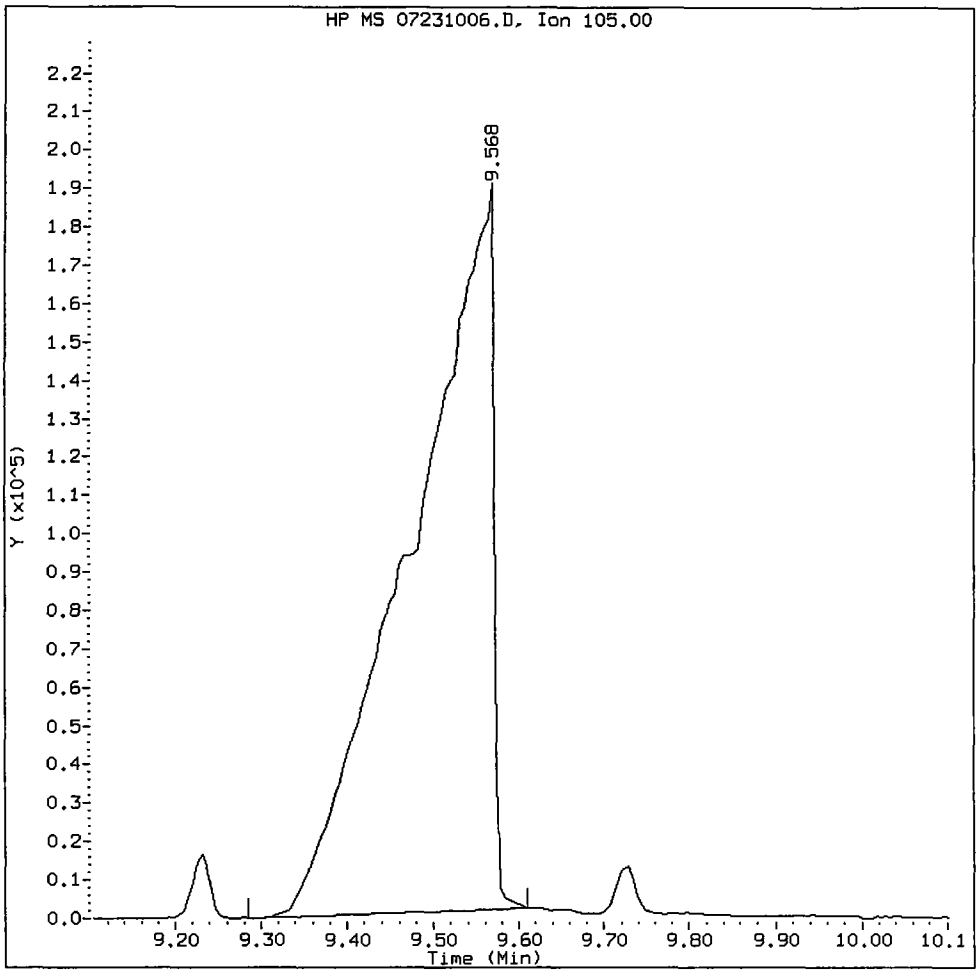


AD 07/26/10

RG94 : 00733

IC600723, /chem1/nt6.i/20100723.b/07231006.D

Benzoic acid Amount: 133.25 Area: 1222479



MANUAL INTEGRATION for Benzoic acid

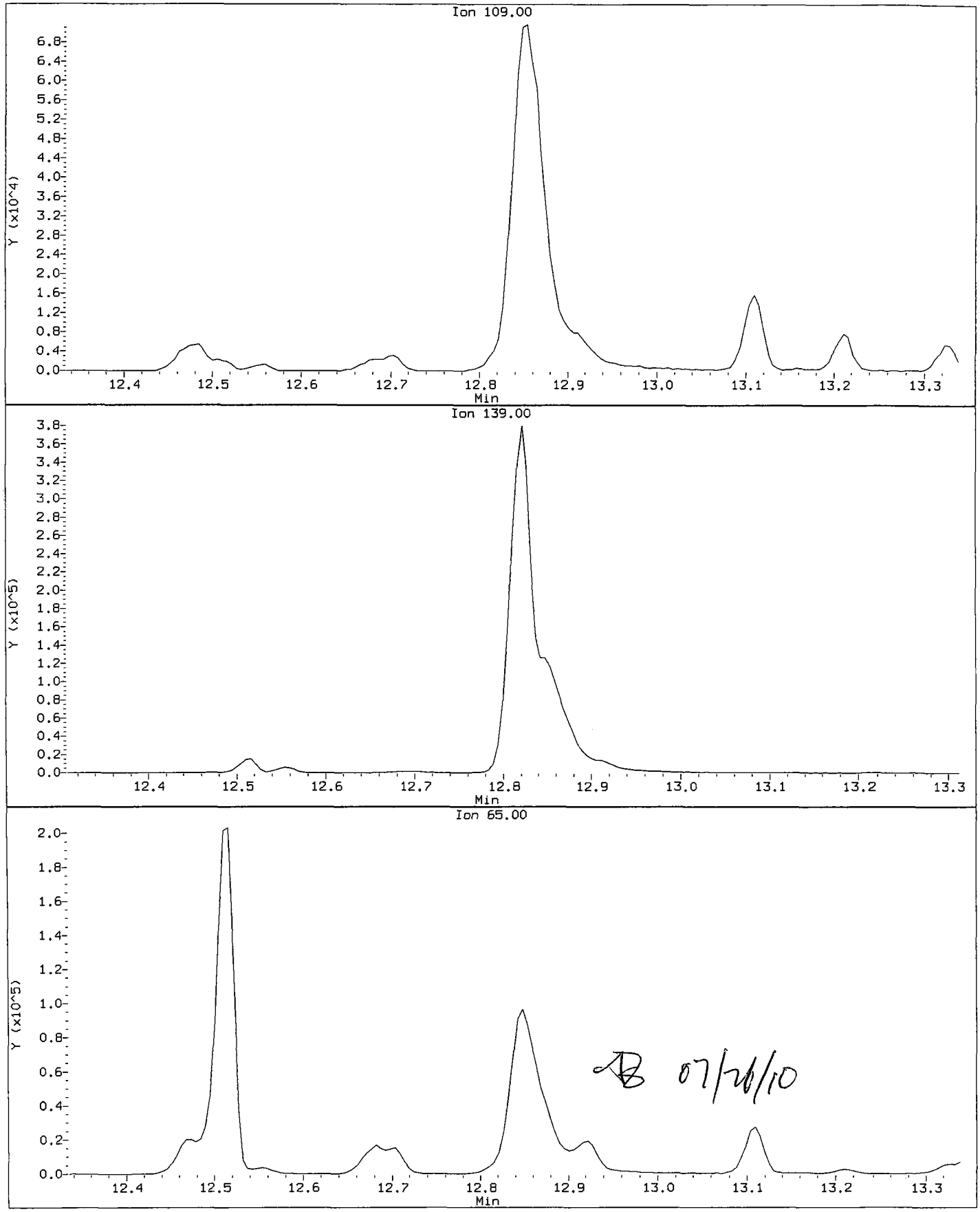
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Data File: /chem1/nt6.i/20100723.b/07231006.D
Injection Date: 23-JUL-2010 18:01
Instrument: nt6.i
Client Sample ID: IC600723

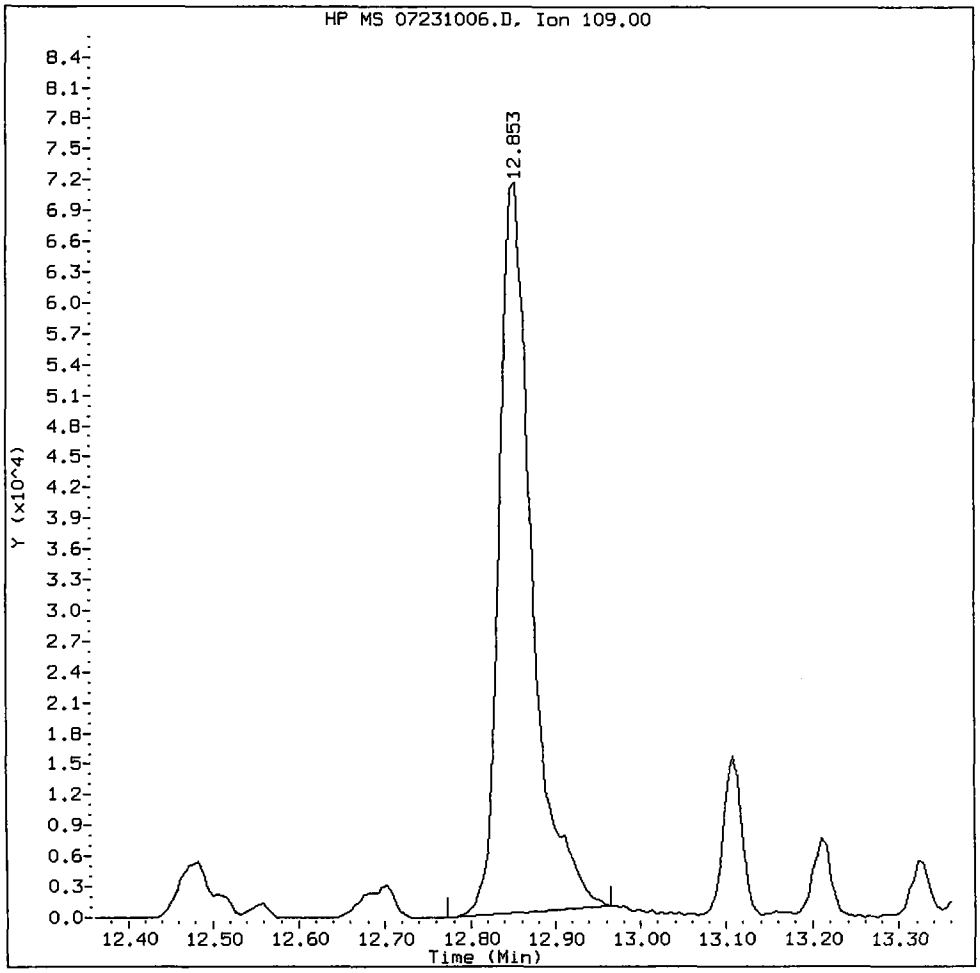
Compound: 4-Nitrophenol
CAS Number: 100-02-7



AB 07/26/10

IC600723, /chem1/nt6.i/20100723.b/07231006.D

4-Nitrophenol Amount: 61.29 Area: 193631



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231007.D
Lab Smp Id: IC800723 Client Smp ID: IC800723
Inj Date : 23-JUL-2010 18:38
Operator : JZ Inst ID: nt6.i
Smp Info : IC800723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:33 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/28/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	7.237	7.237	(0.953)	1126724	80.0000	71.82
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	7.290	7.290	(0.960)	883307	80.0000	73.45
6	2-Chlorophenol	128	7.327	7.327	(0.965)	974470	80.0000	71.84
7	1,3-Dichlorobenzene	146	7.530	7.530	(0.992)	1122451	80.0000	71.04
* 8	1,4-Dichlorobenzene-d4	152	7.595	7.595	(1.000)	184081	20.0000	
9	1,4-Dichlorobenzene	146	7.621	7.621	(1.004)	1114001	80.0000	71.96
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	7.915	7.915	(1.042)	1033272	80.0000	71.78
11	Benzyl alcohol	108	7.910	7.910	(1.041)	587828	80.0000	79.15
14	2,2'-oxybis(1-Chloropropane)	45	8.161	8.161	(1.075)	914751	80.0000	71.33
13	2-Methylphenol	108	8.166	8.166	(1.075)	828388	80.0000	70.81
17	Hexachloroethane	117	8.406	8.406	(1.107)	391434	80.0000	70.00
16	N-Nitroso-di-n-propylamine	70	8.390	8.390	(1.105)	582100	80.0000	71.57
15	4-Methylphenol	108	8.406	8.406	(1.107)	788189	80.0000	68.24
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	8.572	8.572	(0.888)	938257	80.0000	72.12
20	Isophorone	82	8.967	8.967	(0.929)	1534357	80.0000	74.06
21	2-Nitrophenol	139	9.090	9.090	(0.942)	590820	80.0000	77.40
22	2,4-Dimethylphenol	107	9.234	9.234	(0.957)	891173	80.0000	70.95
23	Bis(2-Chloroethoxy)methane	93	9.373	9.373	(0.971)	1052582	80.0000	73.32
24	Benzoic acid	105	9.603	9.603	(0.995)	1615248	160.000	174.0(M)
25	2,4-Dichlorophenol	162	9.485	9.485	(0.983)	813900	80.0000	74.01
26	1,2,4-Trichlorobenzene	180	9.597	9.597	(0.994)	860458	80.0000	71.62
* 27	Naphthalene-d8	136	9.651	9.651	(1.000)	604045	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.683	9.683	(1.003)	2226345	80.0000	65.21
	29 4-Chloroaniline	127	9.843	9.843	(1.020)	933966	80.0000	68.29
	30 Hexachlorobutadiene	225	10.009	10.009	(1.037)	531907	80.0000	75.92
	31 4-Chloro-3-methylphenol	107	10.682	10.682	(1.107)	783143	80.0000	73.86
	32 2-Methylnaphthalene	141	10.805	10.805	(1.120)	1296353	80.0000	69.19
	33 Hexachlorocyclopentadiene	237	11.184	11.184	(0.894)	562487	80.0000	92.87
	34 2,4,6-Trichlorophenol	196	11.333	11.333	(0.906)	612923	80.0000	79.37
	35 2,4,5-Trichlorophenol	196	11.392	11.392	(0.911)	629388	80.0000	78.99
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	11.579	11.579	(0.926)	1529762	80.0000	68.24
	38 2-Nitroaniline	65	11.835	11.835	(0.947)	440827	80.0000	78.99
	39 Dimethylphthalate	163	12.220	12.220	(0.977)	1852039	80.0000	73.16
	40 Acenaphthylene	152	12.252	12.252	(0.980)	2262161	80.0000	65.17
	41 2,6-Dinitrotoluene	165	12.305	12.305	(0.984)	495961	80.0000	82.45
*	42 Acenaphthene-d10	164	12.503	12.503	(1.000)	337280	20.0000	
	43 3-Nitroaniline	138	12.519	12.519	(1.001)	332728	80.0000	63.22
	44 Acenaphthene	153	12.562	12.562	(1.005)	1537831	80.0000	70.94
	45 2,4-Dinitrophenol	184	12.690	12.690	(1.015)	800753	160.000	188.3
	46 Dibenzofuran	168	12.823	12.823	(1.026)	2012989	80.0000	69.91
	47 4-Nitrophenol	109	12.861	12.861	(1.029)	250336	80.0000	80.02 (M)
	48 2,4-Dinitrotoluene	165	12.930	12.930	(1.034)	641395	80.0000	82.78
	50 Diethylphthalate	149	13.368	13.368	(1.069)	1683972	80.0000	71.56
	49 Fluorene	166	13.379	13.379	(1.070)	1669783	80.0000	68.07
	51 4-Chlorophenyl-phenylether	204	13.411	13.411	(1.073)	924625	80.0000	76.22
	52 4-Nitroaniline	138	13.523	13.523	(1.082)	480261	80.0000	81.96
	53 4,6-Dinitro-2-methylphenol	198	13.593	13.593	(0.914)	898863	160.000	165.3
	54 N-Nitrosodiphenylamine	169	13.630	13.630	(0.917)	1336197	80.0000	71.05
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	14.185	14.185	(0.954)	623118	80.0000	77.37
	57 Hexachlorobenzene	284	14.399	14.399	(0.968)	646668	80.0000	76.22
	58 Pentachlorophenol	266	14.704	14.704	(0.989)	459345	80.0000	91.60
*	59 Phenanthrene-d10	188	14.869	14.869	(1.000)	549184	20.0000	
	60 Phenanthrene	178	14.912	14.912	(1.003)	2305020	80.0000	67.57
	61 Anthracene	178	14.987	14.987	(1.008)	2344156	80.0000	66.52
	62 Carbazole	167	15.280	15.280	(1.028)	2213821	80.0000	67.69
	63 Di-n-butylphthalate	149	16.012	16.012	(1.077)	2664538	80.0000	66.47
	64 Fluoranthene	202	16.835	16.835	(1.132)	2453870	80.0000	66.39
	65 Pyrene	202	17.187	17.187	(0.897)	2416567	80.0000	69.90
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	18.421	18.421	(0.961)	1317448	80.0000	78.82
	68 Benzo(a)anthracene	228	19.147	19.147	(0.999)	2451149	80.0000	73.87
*	69 Chrysene-d12	240	19.169	19.169	(1.000)	574045	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.174	19.174	(1.000)	807285	80.0000	74.97
	71 Chrysene	228	19.217	19.217	(1.002)	2263478	80.0000	72.87
	72 bis(2-Ethylhexyl)phthalate	149	19.420	19.420	(0.954)	1765240	80.0000	75.51
*	134 Di-n-octylphthalate-d4	153	20.354	20.354	(1.000)	737424	20.0000	
	73 Di-n-octylphthalate	149	20.360	20.360	(1.000)	2759606	80.0000	69.04

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	74 Benzo(b)fluoranthene	252	20.803	20.803	(0.976)	2878066	80.0000	72.41
	75 Benzo(k)fluoranthene	252	20.840	20.840	(0.978)	2488308	80.0000	60.66
	187 Total Benzofluoranthenes	252	20.840	20.840	(0.978)	5048243	160.000	132.0
	76 Benzo(a)pyrene	252	21.246	21.246	(0.997)	2615653	80.0000	69.86
*	77 Perylene-d12	264	21.316	21.316	(1.000)	593718	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.720	22.720	(1.066)	3631800	80.0000	72.51
	79 Dibenzo(a,h)anthracene	278	22.747	22.747	(1.067)	2711737	80.0000	70.46
	80 Benzo(g,h,i)perylene	276	23.089	23.089	(1.083)	3230387	80.0000	71.50
	90 N-Nitrosodimethylamine	74	2.750	2.750	(0.362)	620385	80.0000	78.18
	103 Pyridine	79	2.702	2.702	(0.356)	1128868	80.0000	79.58
	91 Aniline	93	7.157	7.157	(0.942)	1299555	80.0000	72.33
	105 1-methylnaphthalene	141	10.975	10.975	(1.137)	1345774	80.0000	69.54
	93 Benzidine	184	17.107	17.107	(0.892)	743780	80.0000	67.39
	111 Azobenzene (1,2-DP-Hydrazine)	77	13.667	13.667	(1.093)	1784288	80.0000	74.77
	143 1,4-Dioxane	88	2.168	2.168	(0.285)	412510	80.0000	78.51
$	137 d8-1,4-Dioxane	96	2.125	2.125	(0.280)	419134	80.0000	80.55
	144 alpha-Terpineol	59	9.731	9.731	(1.008)	549670	80.0000	75.83
	98 Retene	219	17.759	17.759	(0.926)	959990	80.0000	80.14
	133 Butylatedhydroxytoluene	205	12.706	12.706	(1.016)	1283146	80.0000	67.59
	115 Tributyl Phosphate	99	13.763	13.763	(0.926)	2014000	80.0000	69.31
	116 Dibutyl Phenyl Phosphate	175	15.457	15.457	(1.040)	1481750	80.0000	74.09
	117 Butyl Diphenyl Phosphate	94	17.134	17.134	(0.894)	494257	80.0000	78.81
	118 Triphenyl Phosphate	326	18.731	18.731	(0.977)	539388	80.0000	86.01
	123 Acetophenone	105	8.316	8.316	(1.095)	1188668	80.0000	74.79
	179 n-Decane	57	7.450	7.450	(0.981)	749840	80.0000	72.12
	180 n-Octadecane	57	14.832	14.832	(0.997)	703022	80.0000	65.16
	168 Pentachlorobenzene	250	12.866	12.866	(1.029)	718448	80.0000	77.34
	113 Diphenyl Oxide	170	11.782	11.782	(0.942)	1519811	80.0000	69.89
	112 Biphenyl	154	11.590	11.590	(0.927)	1616091	80.0000	66.98
	120 2,3,4,6-Tetrachlorophenol	232	13.112	13.112	(1.049)	600513	80.0000	84.23
	151 1,2,4,5-Tetrachlorobenzene	216	11.141	11.141	(0.891)	882626	80.0000	73.33
	110 Tetrachloroguaiacol	247	14.842	14.842	(0.998)	648752	160.000	153.2
	109 3,4,5-Trichloroguaiacol	213	13.219	13.219	(0.889)	337376	80.0000	78.39
	181 3,4,6-Trichloroguaiacol	211	13.331	13.331	(1.755)	409150	80.0000	83.85
	108 4,5,6-Trichloroguaiacol	213	14.250	14.250	(1.140)	347921	80.0000	82.16
	184 3,4-Dichloroguaiacol	192	11.675	11.675	(1.537)	356500	80.0000	83.24
	107 4,5-Dichloroguaiacol	192	12.476	12.476	(0.998)	832681	160.000	156.6
	182 4,6-Dichloroguaiacol	192	12.476	12.476	(1.643)	834886	160.000	160.8
	185 4-Chloroguaiacol	115	10.596	10.596	(1.395)	216477	40.0000	40.55
	186 Carbaryl	144	15.702	15.702	(1.056)	1238106	80.0000	79.80
	106 Guaiacol	124	8.588	8.588	(1.131)	826280	80.0000	74.37

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231007.D
Lab Smp Id: IC800723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: IC800723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	184081	0.71
27 Naphthalene-d8	584137	292068	1168274	604045	3.41
42 Acenaphthene-d10	320442	160221	640884	337280	5.25
59 Phenanthrene-d10	503793	251896	1007586	549184	9.01
69 Chrysene-d12	532343	266172	1064686	574045	7.83
134 Di-n-octylphthala	719428	359714	1438856	737424	2.50
77 Perylene-d12	517269	258634	1034538	593718	14.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	0.03
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.08
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.02
59 Phenanthrene-d10	14.86	14.36	15.36	14.87	0.05
69 Chrysene-d12	19.16	18.66	19.66	19.17	0.04
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.04
77 Perylene-d12	21.31	20.81	21.81	21.32	0.04

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.

Data File: /chem1/nt6.i/20100723.b/07231007.D

Date : 23-JUL-2010 18:38

Client ID: IC800723

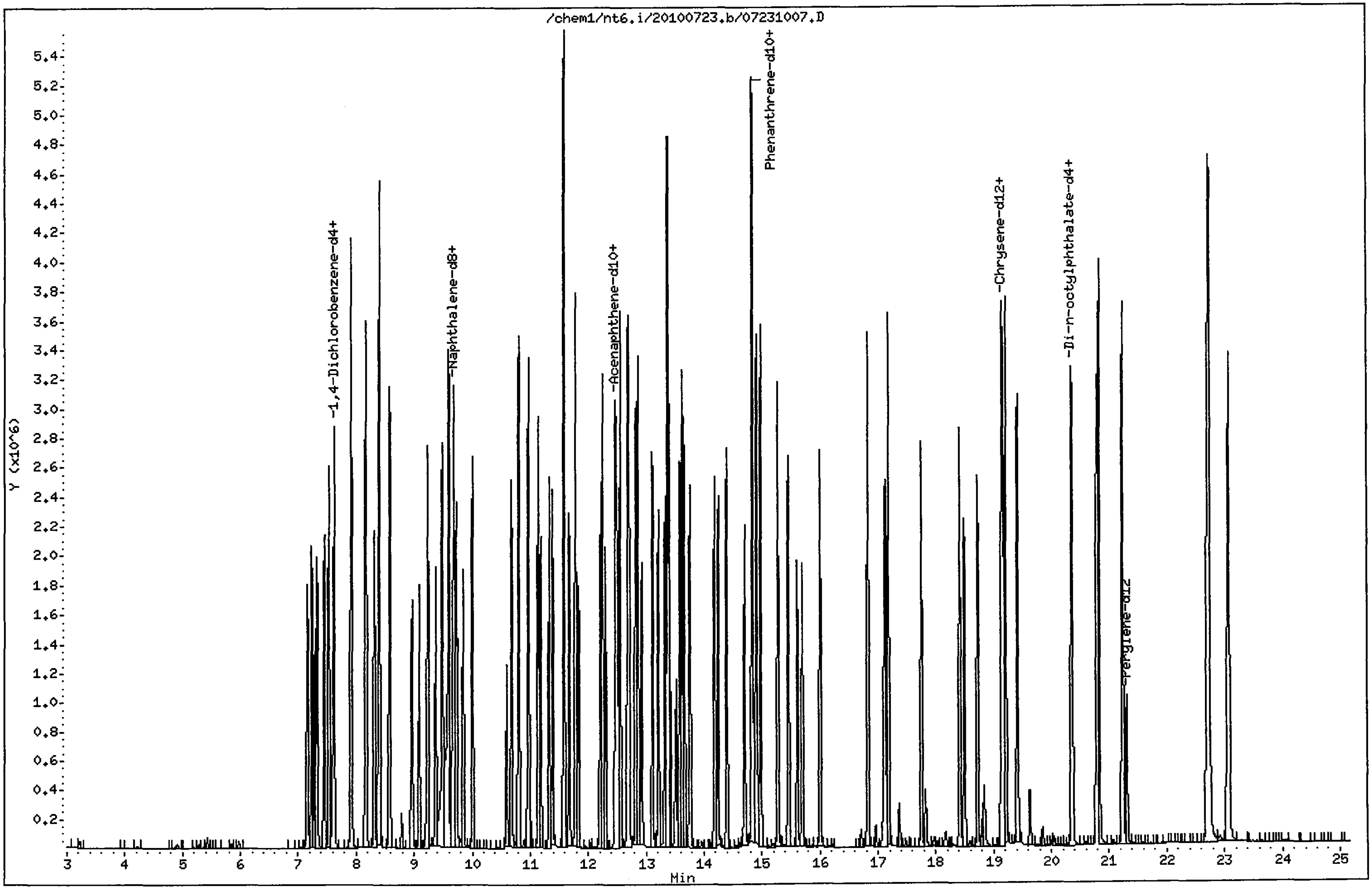
Sample Info: IC800723,

Column phase: ZB-5msi

Instrument: nt6.i

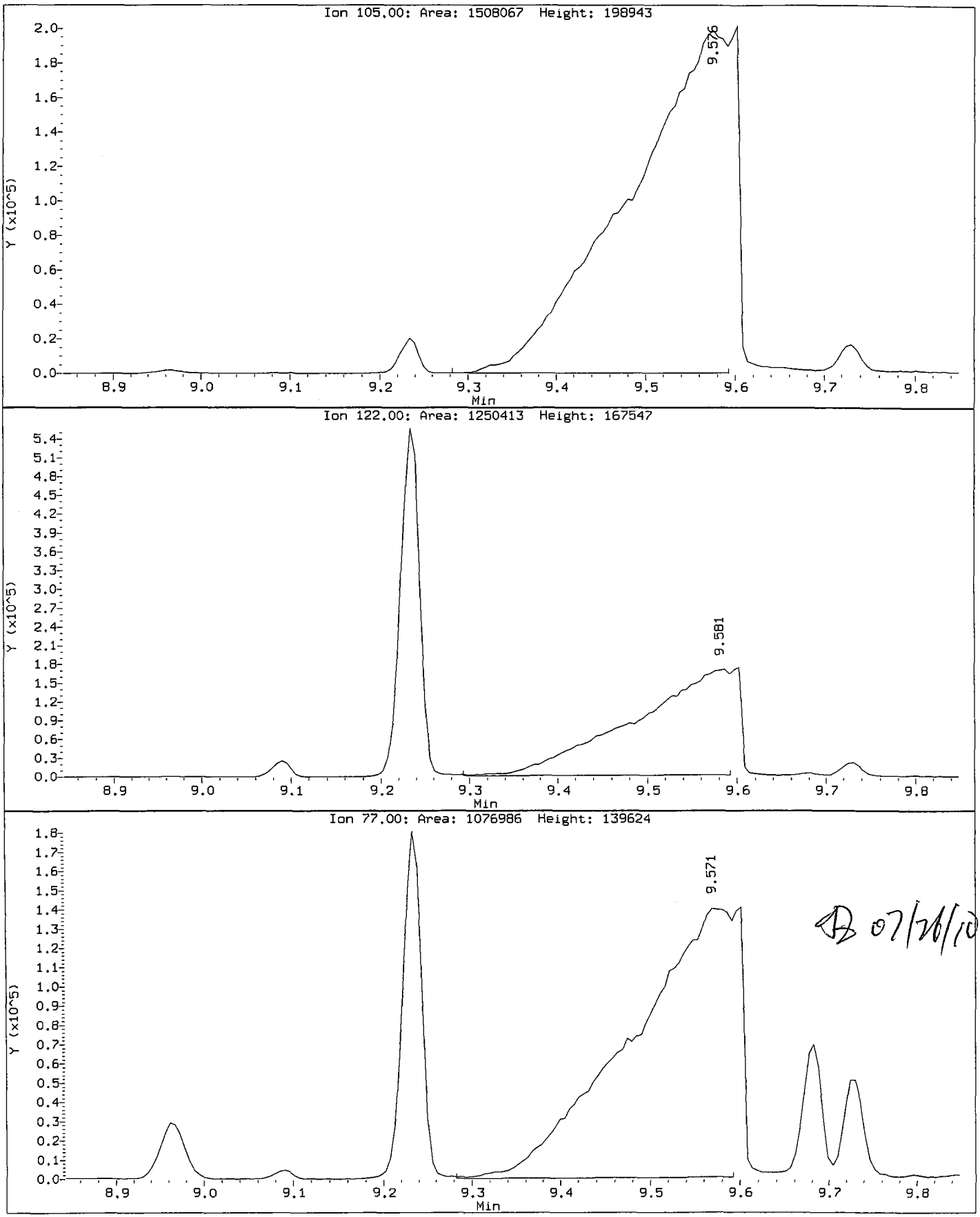
Operator: JZ

Column diameter: 0.32



Data File: /chem1/nt6.i/20100723.b/07231007.D
Injection Date: 23-JUL-2010 18:38
Instrument: nt6.i
Client Sample ID: IC800723

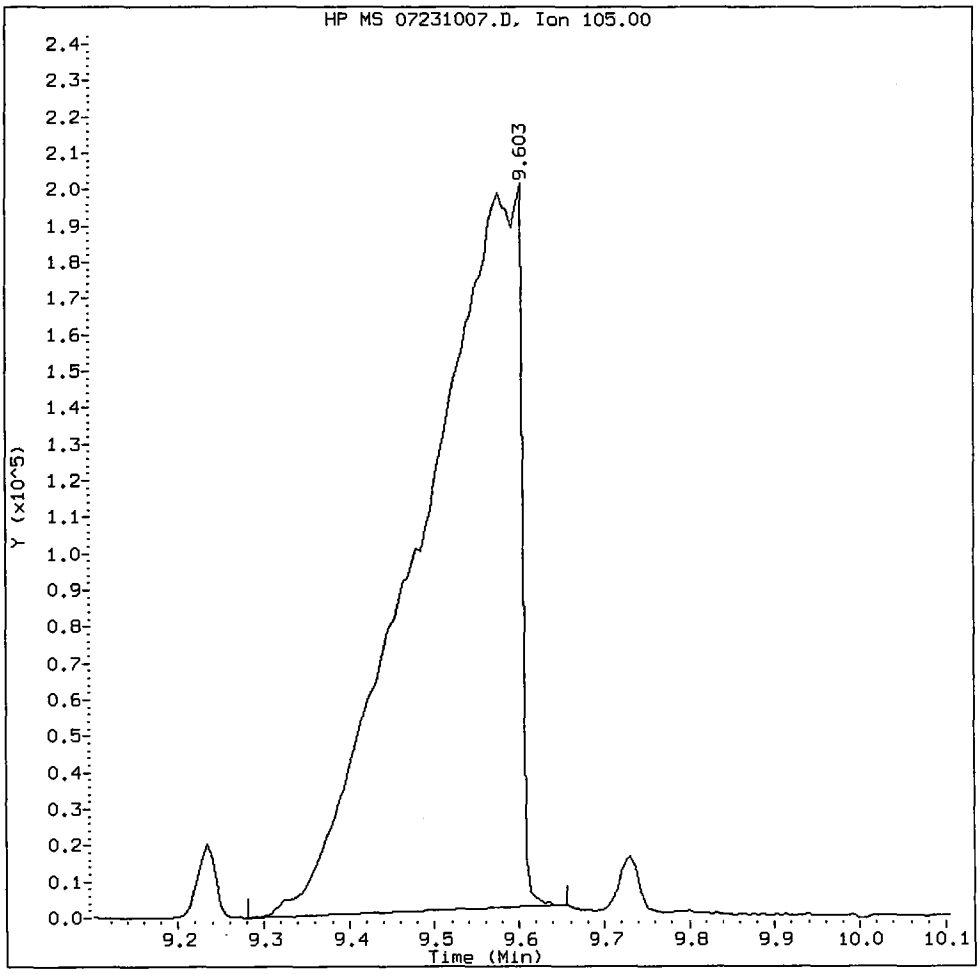
Compound: Benzoic acid
CAS Number: 65-85-0



07/26/10

IC800723, /chem1/nt6.i/20100723.b/07231007.D

Benzoic acid Amount: 173.97 Area: 1615248



MANUAL INTEGRATION for Benzoic acid

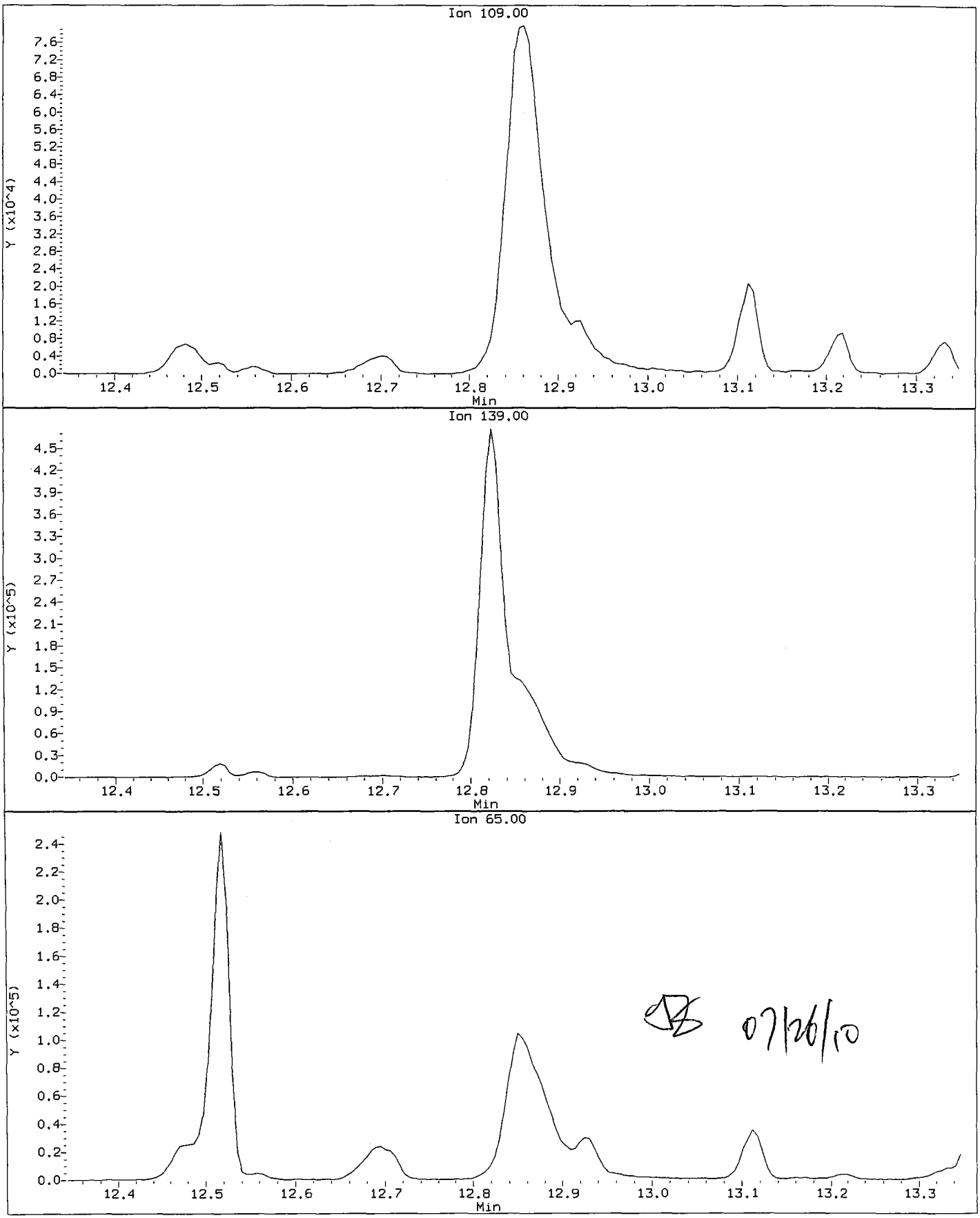
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/26/10

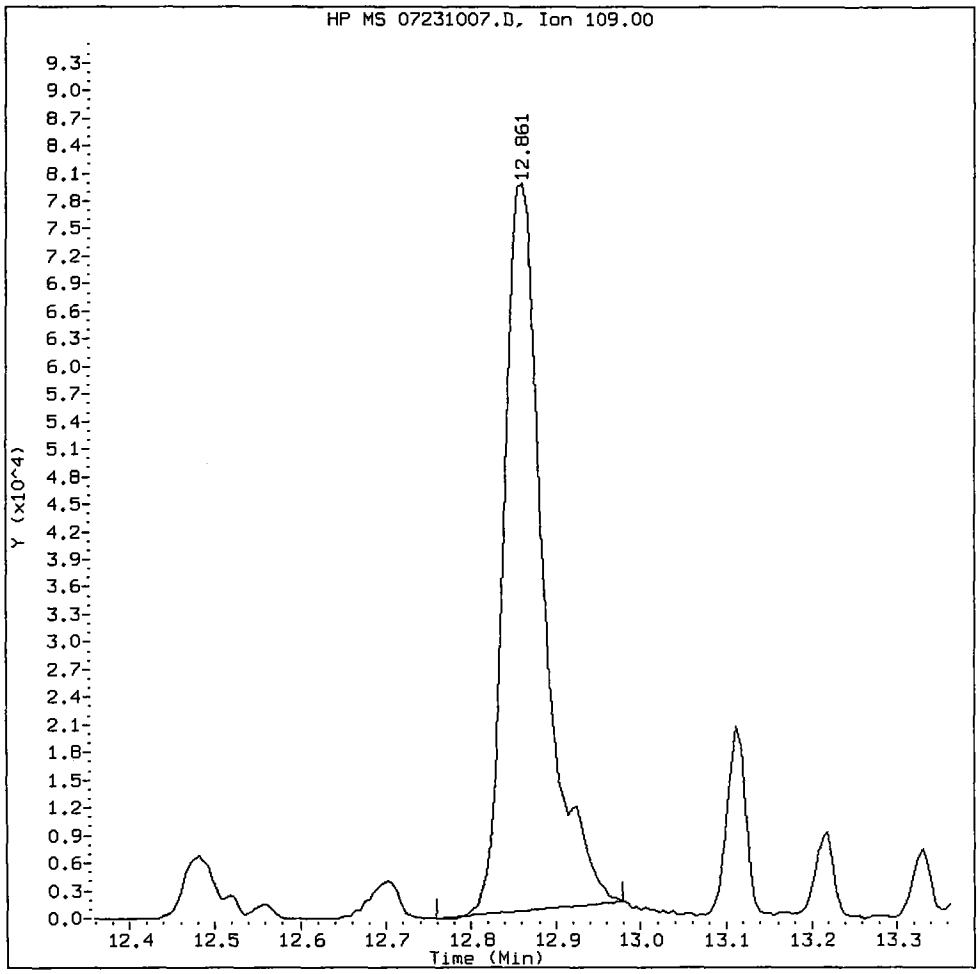
Data File: /chem1/nt6.i/20100723.b/07231007.D
Injection Date: 23-JUL-2010 18:38
Instrument: nt6.i
Client Sample ID: IC800723

Compound: 4-Nitrophenol
CAS Number: 100-02-7



IC800723, /chem1/nt6.i/20100723.b/07231007.D

4-Nitrophenol Amount: 80.02 Area: 250336



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date: 07/26/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100723.b/07231008.D
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Inj Date : 23-JUL-2010 20:17
Operator : JZ Inst ID: nt6.i
Smp Info : ICV0723,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100723.b/SW846072310.m
Meth Date : 26-Jul-2010 11:35 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/26/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	5.602	5.610	(0.738)	302142	25.7548	25.75(R)
$	2 Phenol-d5	99	7.204	7.218	(0.949)	335463	24.7563	24.76(R)
	3 Phenol	94	7.226	7.237	(0.952)	339785	22.5779	22.58
$	5 2-Chlorophenol-d4	132	7.295	7.303	(0.961)	281753	24.6175	24.62(R)
	4 Bis(2-Chloroethyl)ether	93	7.279	7.290	(0.959)	304187	26.3668	26.37
	6 2-Chlorophenol	128	7.316	7.327	(0.964)	291054	22.3679	22.37
	7 1,3-Dichlorobenzene	146	7.525	7.530	(0.992)	378563	24.9751	24.98
*	8 1,4-Dichlorobenzene-d4	152	7.589	7.595	(1.000)	176582	20.0000	
	9 1,4-Dichlorobenzene	146	7.616	7.621	(1.004)	373980	25.1845	25.18
$	10 1,2-Dichlorobenzene-d4	152	7.888	7.896	(1.039)	197842	24.9146	24.91(R)
	12 1,2-Dichlorobenzene	146	7.909	7.915	(1.042)	346390	25.0849	25.08
	11 Benzyl alcohol	108	7.899	7.910	(1.041)	205971	28.9097	28.91
	14 2,2'-oxybis(1-Chloropropane)	45	8.155	8.161	(1.075)	320212	26.0298	26.03
	13 2-Methylphenol	108	8.155	8.166	(1.075)	260466	23.2089	23.21
	17 Hexachloroethane	117	8.401	8.406	(1.107)	138110	25.7462	25.75
	16 N-Nitroso-di-n-propylamine	70	8.374	8.390	(1.103)	210206	26.9423	26.94
	15 4-Methylphenol	108	8.390	8.406	(1.106)	259863	23.4548	23.45
$	18 Nitrobenzene-d5	82	8.534	8.542	(0.885)	274740	24.2876	24.29(R)
	19 Nitrobenzene	77	8.561	8.572	(0.888)	317981	25.3562	25.36
	20 Isophorone	82	8.945	8.967	(0.927)	556067	27.8428	27.84
	21 2-Nitrophenol	139	9.079	9.090	(0.941)	165718	22.5221	22.52
	22 2,4-Dimethylphenol	107	9.223	9.234	(0.956)	266385	22.0023	22.00
	23 Bis(2-Chloroethoxy)methane	93	9.362	9.373	(0.971)	346047	25.0051	25.01
	24 Benzoic acid	105	9.458	9.603	(0.981)	411600	45.9898	45.99
	25 2,4-Dichlorophenol	162	9.474	9.485	(0.982)	229314	21.6315	21.63
	26 1,2,4-Trichlorobenzene	180	9.592	9.597	(0.994)	290055	25.0468	25.05
*	27 Naphthalene-d8	136	9.645	9.651	(1.000)	582262	20.0000	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	28	Naphthalene	128	9.672	9.683	(1.003)	855843	26.0064	26.01
	29	4-Chloroaniline	127	9.837	9.843	(1.020)	369626	28.0380	28.04
	30	Hexachlorobutadiene	225	10.003	10.009	(1.037)	170071	25.1822	25.18
	31	4-Chloro-3-methylphenol	107	10.671	10.682	(1.106)	226211	22.1338	22.13
	32	2-Methylnaphthalene	141	10.799	10.805	(1.120)	485070	26.8581	26.86
	33	Hexachlorocyclopentadiene	237	11.178	11.184	(0.894)	155013	23.0155	23.02
	34	2,4,6-Trichlorophenol	196	11.322	11.333	(0.906)	163848	22.0919	22.09
	35	2,4,5-Trichlorophenol	196	11.381	11.392	(0.911)	172363	22.5234	22.52
$	36	2-Fluorobiphenyl	172	11.450	11.453	(0.916)	546411	24.0943	24.09(R)
	37	2-Chloronaphthalene	162	11.573	11.579	(0.926)	532254	24.7189	24.72
	38	2-Nitroaniline	65	11.824	11.835	(0.946)	149026	27.8009	27.80
	39	Dimethylphthalate	163	12.204	12.220	(0.976)	629083	25.8720	25.87
	40	Acenaphthylene	152	12.246	12.252	(0.980)	848021	25.4360	25.44
	41	2,6-Dinitrotoluene	165	12.294	12.305	(0.984)	145173	25.1272	25.13
*	42	Acenaphthene-d10	164	12.497	12.503	(1.000)	323945	20.0000	
	43	3-Nitroaniline	138	12.503	12.519	(1.000)	149842	29.6424	29.64
	44	Acenaphthene	153	12.551	12.562	(1.004)	536105	25.7493	25.75
	45	2,4-Dinitrophenol	184	12.668	12.690	(1.014)	201042	42.3460	42.35
	46	Dibenzofuran	168	12.812	12.823	(1.025)	752607	27.2141	27.21
	47	4-Nitrophenol	109	12.839	12.861	(1.027)	71518	23.8006	23.80
	48	2,4-Dinitrotoluene	165	12.914	12.930	(1.033)	194901	26.1903	26.19
	50	Diethylphthalate	149	13.357	13.368	(1.069)	572287	25.3218	25.32
	49	Fluorene	166	13.368	13.379	(1.070)	602733	25.5811	25.58
	51	4-Chlorophenyl-phenylether	204	13.405	13.411	(1.073)	292139	25.0726	25.07
	52	4-Nitroaniline	138	13.496	13.523	(1.080)	152959	27.1798	27.18
	53	4,6-Dinitro-2-methylphenol	198	13.566	13.593	(0.913)	223359	43.6280	43.63
	54	N-Nitrosodiphenylamine	169	13.614	13.630	(0.916)	427806	24.1637	24.16
$	55	2,4,6-Tribromophenol	330	13.790	13.798	(1.103)	75610	25.6162	25.62(R)
	56	4-Bromophenyl-phenylether	248	14.180	14.185	(0.954)	191744	25.2907	25.29
	57	Hexachlorobenzene	284	14.388	14.399	(0.968)	200104	25.0540	25.05
	58	Pentachlorophenol	266	14.692	14.704	(0.988)	106284	22.5154	22.52
*	59	Phenanthrene-d10	188	14.863	14.869	(1.000)	516976	20.0000	
	60	Phenanthrene	178	14.901	14.912	(1.002)	817896	25.4699	25.47
	61	Anthracene	178	14.970	14.987	(1.007)	843835	25.4372	25.44
	62	Carbazole	167	15.269	15.280	(1.027)	757904	24.6171	24.62
	63	Di-n-butylphthalate	149	16.006	16.012	(1.077)	984901	26.1018	26.10
	64	Fluoranthene	202	16.829	16.835	(1.132)	924404	26.5666	26.57
	65	Pyrene	202	17.176	17.187	(0.896)	895541	27.3311	27.33
$	66	Terphenyl-d14	244	17.513	17.515	(0.914)	502221	26.0581	26.06(R)
	67	Butylbenzylphthalate	149	18.410	18.421	(0.961)	445853	28.1439	28.14
	68	Benzo(a)anthracene	228	19.136	19.147	(0.999)	853493	27.1378	27.14
*	69	Chrysene-d12	240	19.163	19.169	(1.000)	544051	20.0000	
	70	3,3'-Dichlorobenzidine	252	19.163	19.174	(1.000)	296160	29.0191	29.02
	71	Chrysene	228	19.200	19.217	(1.002)	787876	26.7633	26.76
	72	bis(2-Ethylhexyl)phthalate	149	19.414	19.420	(0.954)	606626	26.1539	26.15
*	134	Di-n-octylphthalate-d4	153	20.349	20.354	(1.000)	731609	20.0000	
	73	Di-n-octylphthalate	149	20.359	20.360	(1.001)	983437	24.7985	24.80

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
74	Benzo(b)fluoranthene	252	20.787	20.803	(0.976)	939291	26.8309	26.83
75	Benzo(k)fluoranthene	252	20.819	20.840	(0.977)	899448	24.8923	24.89
187	Total Benzofluoranthenes	252	20.819	20.840	(0.977)	1738917	51.6417	51.64
76	Benzo(a)pyrene	252	21.225	21.246	(0.996)	801751	24.3128	24.31
* 77	Perylene-d12	264	21.305	21.316	(1.000)	522945	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.699	22.720	(1.065)	1164841	26.4045	26.40
79	Dibenzo(a,h)anthracene	278	22.725	22.747	(1.067)	891426	26.2958	26.30
80	Benzo(g,h,i)perylene	276	23.057	23.089	(1.082)	1016920	25.5542	25.55
90	N-Nitrosodimethylamine	74	2.718	2.750	(0.358)	203152	26.6890	26.69
103	Pyridine	79	2.686	2.702	(0.354)	386661	28.4162	28.42
91	Aniline	93	7.151	7.157	(0.942)	509239	29.5450	29.55
105	1-methylnaphthalene	141	10.964	10.975	(1.137)	465323	24.9433	24.94
93	Benzidine	184	17.101	17.107	(0.892)	330482	31.5959	31.60
111	Azobenzene (1,2-DP-Hydrazine)	77	13.651	13.667	(1.092)	566528	24.7167	24.72
143	1,4-Dioxane	88	2.146	2.168	(0.283)	134807	26.7477	26.75
$ 137	d8-1,4-Dioxane	96	2.104	2.125	(0.277)	124707	24.9828	24.98(R)
144	alpha-Terpineol	59	9.720	9.731	(1.008)	173894	24.8865	24.89
98	Retene	219	17.753	17.759	(0.926)	302825	26.6747	26.67
133	Butylatedhydroxytoluene	205	12.700	12.706	(1.016)	453731	24.8832	24.88
115	Tributyl Phosphate	99	13.736	13.763	(0.924)	694262	25.3816	25.38
116	Dibutyl Phenyl Phosphate	175	15.451	15.457	(1.040)	487084	25.8710	25.87
117	Butyl Diphenyl Phosphate	94	17.128	17.134	(0.894)	158542	26.6745	26.67
118	Triphenyl Phosphate	326	18.720	18.731	(0.977)	159074	26.7635	26.76
123	Acetophenone	105	8.299	8.316	(1.094)	420299	27.5683	27.57
179	n-Decane	57	7.445	7.450	(0.981)	271295	27.2026	27.20
180	n-Octadecane	57	14.826	14.832	(0.997)	288829	28.4370	28.44
168	Pentachlorobenzene	250	12.855	12.866	(1.029)	231893	25.9903	25.99
113	Diphenyl Oxide	170	11.776	11.782	(0.942)	374237	17.9170	17.92
112	Biphenyl	154	11.579	11.590	(0.926)	642598	27.7286	27.73
120	2,3,4,6-Tetrachlorophenol	232	13.106	13.112	(1.049)	176844	25.8264	25.83
151	1,2,4,5-Tetrachlorobenzene	216	11.135	11.141	(0.891)	282106	24.4037	24.40
110	Tetrachloroguaiacol	247	14.826	14.842	(0.997)	201384	50.5278	50.53
109	3,4,5-Trichloroguaiacol	213	13.208	13.219	(0.889)	99787	24.6313	24.63
181	3,4,6-Trichloroguaiacol	211	13.320	13.331	(1.755)	118646	25.3490	25.35
108	4,5,6-Trichloroguaiacol	213	14.238	14.250	(1.139)	102183	25.1219	25.12
184	3,4-Dichloroguaiacol	192	11.669	11.675	(1.538)	104314	25.3919	25.39
107	4,5-Dichloroguaiacol	192	12.465	12.476	(0.997)	254884	49.8970	49.90
182	4,6-Dichloroguaiacol	192	12.465	12.476	(1.643)	254884	51.1860	51.19
185	4-Chloroguaiacol	115	10.591	10.596	(1.396)	65963	12.8795	12.88
186	Carbaryl	144	15.686	15.702	(1.055)	383589	26.2646	26.26
106	Guaiacol	124	8.577	8.588	(1.130)	271343	25.4590	25.46

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 07231008.D
Lab Smp Id: ICV0723
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 15:01
Client Smp ID: ICV0723
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	176582	-3.39
27 Naphthalene-d8	584137	292068	1168274	582262	-0.32
42 Acenaphthene-d10	320442	160221	640884	323945	1.09
59 Phenanthrene-d10	503793	251896	1007586	516976	2.62
69 Chrysene-d12	532343	266172	1064686	544051	2.20
134 Di-n-octylphthala	719428	359714	1438856	731609	1.69
77 Perylene-d12	517269	258634	1034538	522945	1.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.59	7.09	8.09	7.59	-0.04
27 Naphthalene-d8	9.64	9.14	10.14	9.65	0.02
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.02
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	0.01
69 Chrysene-d12	19.16	18.66	19.66	19.16	0.01
134 Di-n-octylphthala	20.35	19.85	20.85	20.35	0.01
77 Perylene-d12	21.31	20.81	21.81	21.30	-0.01

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20100723
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Misc Info: 10-

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	25.00	22.58	90.31	
4	Bis(2-Chloroethyl)	25.00	26.37	105.47	
6	2-Chlorophenol	25.00	22.37	89.47	
7	1,3-Dichlorobenzen	25.00	24.98	99.90	
9	1,4-Dichlorobenzen	25.00	25.18	100.74	
11	Benzyl alcohol	25.00	28.91	115.64	
12	1,2-Dichlorobenzen	25.00	25.08	100.34	
13	2-Methylphenol	25.00	23.21	92.84	
14	2,2'-oxybis(1-Chlo	25.00	26.03	104.12	
15	4-Methylphenol	25.00	23.45	93.82	
16	N-Nitroso-di-n-pro	25.00	26.94	107.77	
17	Hexachloroethane	25.00	25.75	102.98	
19	Nitrobenzene	25.00	25.36	101.42	
20	Isophorone	25.00	27.84	111.37	
21	2-Nitrophenol	25.00	22.52	90.09	
22	2,4-Dimethylphenol	25.00	22.00	88.01	
23	Bis(2-Chloroethoxy	25.00	25.01	100.02	
24	Benzoic acid	50.00	45.99	91.98	
25	2,4-Dichlorophenol	25.00	21.63	86.53	
26	1,2,4-Trichloroben	25.00	25.05	100.19	
28	Naphthalene	25.00	26.01	104.03	
29	4-Chloroaniline	25.00	28.04	112.15	
30	Hexachlorobutadien	25.00	25.18	100.73	
31	4-Chloro-3-methylp	25.00	22.13	88.54	
32	2-Methylnaphthalen	25.00	26.86	107.43	
33	Hexachlorocyclopen	25.00	23.02	92.06	
34	2,4,6-Trichlorophe	25.00	22.09	88.37	
35	2,4,5-Trichlorophe	25.00	22.52	90.09	
37	2-Chloronaphthalen	25.00	24.72	98.88	
38	2-Nitroaniline	25.00	27.80	111.20	
39	Dimethylphthalate	25.00	25.87	103.49	
40	Acenaphthylene	25.00	25.44	101.74	
41	2,6-Dinitrotoluene	25.00	25.13	100.51	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	29.64	118.57	
44	Acenaphthene	25.00	25.75	103.00	
45	2,4-Dinitrophenol	50.00	42.35	84.69	
46	Dibenzofuran	25.00	27.21	108.86	
47	4-Nitrophenol	25.00	23.80	95.20	
48	2,4-Dinitrotoluene	25.00	26.19	104.76	
49	Fluorene	25.00	25.58	102.32	
50	Diethylphthalate	25.00	25.32	101.29	
51	4-Chlorophenyl-phe	25.00	25.07	100.29	
52	4-Nitroaniline	25.00	27.18	108.72	
53	4,6-Dinitro-2-meth	50.00	43.63	87.26	
54	N-Nitrosodiphenyla	25.00	24.16	96.65	
56	4-Bromophenyl-phen	25.00	25.29	101.16	
57	Hexachlorobenzene	25.00	25.05	100.22	
58	Pentachlorophenol	25.00	22.52	90.06	
60	Phenanthrene	25.00	25.47	101.88	
61	Anthracene	25.00	25.44	101.75	
62	Carbazole	25.00	24.62	98.47	
63	Di-n-butylphthalat	25.00	26.10	104.41	
64	Fluoranthene	25.00	26.57	106.27	
65	Pyrene	25.00	27.33	109.32	
67	Butylbenzylphthala	25.00	28.14	112.58	
68	Benzo(a)anthracene	25.00	27.14	108.55	
70	3,3'-Dichlorobenzi	25.00	29.02	116.08	
71	Chrysene	25.00	26.76	107.05	
72	bis(2-Ethylhexyl)p	25.00	26.15	104.62	
73	Di-n-octylphthalat	25.00	24.80	99.19	
74	Benzo(b)fluoranthe	25.00	26.83	107.32	
75	Benzo(k)fluoranthe	25.00	24.89	99.57	
76	Benzo(a)pyrene	25.00	24.31	97.25	
78	Indeno(1,2,3-cd)py	25.00	26.40	105.62	
79	Dibenzo(a,h)anthra	25.00	26.30	105.18	
80	Benzo(g,h,i)peryle	25.00	25.55	102.22	
90	N-Nitrosodimethyla	25.00	26.69	106.76	
91	Aniline	25.00	29.55	118.18	
93	Benzidine	25.00	31.60	126.38	
103	Pyridine	25.00	28.42	113.66	
105	1-methylnaphthalen	25.00	24.94	99.77	
120	2,3,4,6-Tetrachlor	25.00	25.83	103.31	
151	1,2,4,5-Tetrachlor	25.00	24.40	97.61	
143	1,4-Dioxane	25.00	26.75	106.99	
110	Tetrachloroguaiaco	50.00	50.53	101.06	
109	3,4,5-Trichlorogua	25.00	24.63	98.53	
181	3,4,6-Trichlorogua	25.00	25.35	101.40	
108	4,5,6-Trichlorogua	25.00	25.12	100.49	
184	3,4-Dichloroguaiac	25.00	25.39	101.57	
107	4,5-Dichloroguaiac	50.00	49.90	99.79	

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
182 4,6-Dichloroguaiac	50.00	51.19	102.37	
185 4-Chloroguaiacol	12.50	12.88	103.04	
106 Guaiacol	25.00	25.46	101.84	

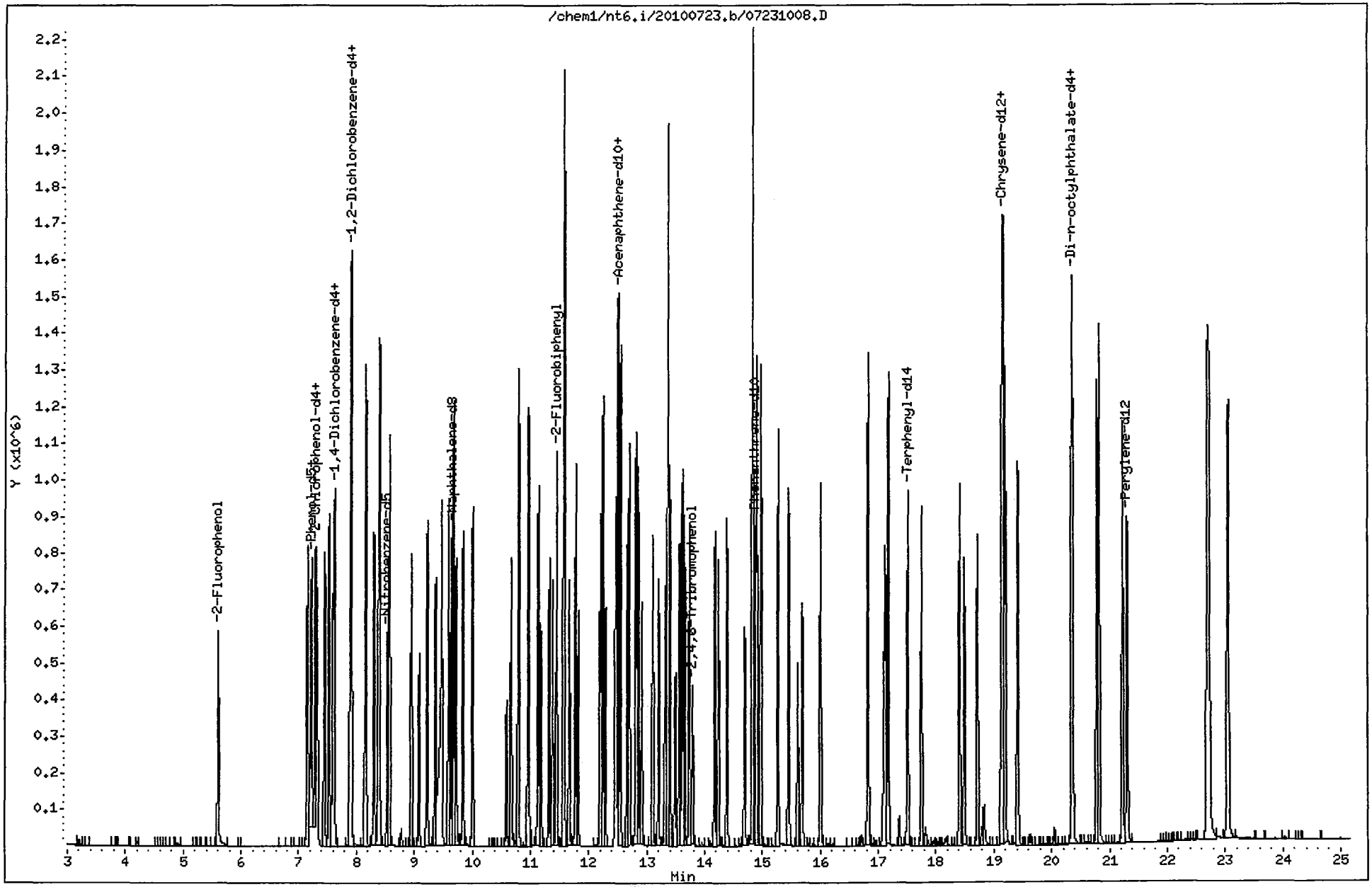
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.75	103.02	
$ 2 Phenol-d5	25.00	24.76	99.03	
$ 5 2-Chlorophenol-d4	25.00	24.62	98.47	
$ 10 1,2-Dichlorobenzen	25.00	24.91	99.66	
$ 18 Nitrobenzene-d5	25.00	24.29	97.15	
$ 36 2-Fluorobiphenyl	25.00	24.09	96.38	
$ 55 2,4,6-Tribromophen	25.00	25.62	102.46	
$ 66 Terphenyl-d14	25.00	26.06	104.23	
$ 137 d8-1,4-Dioxane	25.00	24.98	99.93	

Data File: /chem1/nt6.i/20100723.b/07231008.D
Date : 23-JUL-2010 20:17
Client ID: ICV0723
Sample Info: ICV0723,

Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt6.i/20100723.b/07231002.D
Level 2: /chem1/nt6.i/20100723.b/07231003.D
Level 3: /chem1/nt6.i/20100723.b/07231004.D
Level 4: /chem1/nt6.i/20100723.b/07231001.D
Level 5: /chem1/nt6.i/20100723.b/07231005.D
Level 6: /chem1/nt6.i/20100723.b/07231006.D
Level 7: /chem1/nt6.i/20100723.b/07231007.D

B 07/26/10

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
186 Carbaryl	0.52977	0.47325	0.61814	0.60108	0.60183	0.56738	0.56361	0.56501	8.893
179 n-Decane	1.30295	1.13144	1.17576	1.12634	1.10387	1.04830	1.01836	1.12957	8.229
180 n-Octadecane	0.46718	0.42555	0.43641	0.39738	0.36784	0.33613	0.32003	0.39293	13.806
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Pentachlorobenzene	0.60186	0.53250	0.55894	0.54825	0.55050	0.53139	0.53253	0.55085	4.523
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

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Start Cal Date : 23-JUL-2010 15:01
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Quant Method : ISTD
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Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Butylatedhydroxytoluene	1.30909	1.21610	1.18712	1.11886	1.06955	1.02859	0.95110	1.12577	10.800
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 alpha-Terpineol	0.25182	0.24104	0.24573	0.23829	0.24115	0.23457	0.22750	0.24001	3.244
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Acetophenone	1.84319	1.73378	1.77490	1.74051	1.72755	1.65306	1.61433	1.72676	4.371
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 1,4-Dioxane	0.59514	0.55269	0.57759	0.57316	0.57745	0.55960	0.56023	0.57084	2.532
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2,3,4,6-Tetrachlorophenol	0.36744	0.39880	0.41626	0.43155	0.44579	0.45431	0.44511	0.42275	7.341

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Triphenyl Phosphate	0.22270	0.18490	0.19777	0.23461	0.21824	0.23636	0.23491	0.21850	9.200
117 Butyl Diphenyl Phosphate	0.23132	0.20255	0.20803	0.23443	0.21391	0.22397	0.21525	0.21849	5.428
116 Dibutyl Phenyl Phosphate	0.68627	0.76192	0.76950	0.75246	0.74004	0.71386	0.67452	0.72837	5.142
115 Tributyl Phosphate	1.12856	1.13872	1.13497	1.07164	1.03189	0.98475	0.91681	1.05819	8.054
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Diphenyl Oxide	1.53546	1.31951	1.36647	1.28948	1.22753	1.16194	1.12652	1.28956	10.689
112 Biphenyl	+++++	1.59664	1.63155	1.49389	1.39001	1.27465	1.19789	1.43077	12.189

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
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Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
111 Azobenzene (1,2-DP-Hydrazine)	1.57438	1.43424	1.49821	1.42379	1.37937	1.27319	1.32256	1.41510	7.224
110 Tetrachloroguaiacol	+++++	0.14646	0.16171	0.16055	0.15529	0.15347	0.14766	0.15419	4.112
109 3,4,5-Trichloroguaiacol	+++++	0.14975	0.16112	0.15998	0.15730	0.15863	0.15358	0.15673	2.744
181 3,4,6-Trichloroguaiacol	+++++	0.46068	0.51059	0.53282	0.55514	0.56584	0.55567	0.53012	7.434
108 4,5,6-Trichloroguaiacol	+++++	0.22564	0.25405	0.25473	0.25582	0.25861	0.25789	0.25112	5.020
184 3,4-Dichloroguaiacol	+++++	0.41063	0.45682	0.46408	0.48450	0.49162	0.48416	0.46530	6.433
107 4,5-Dichloroguaiacol	+++++	0.29660	0.32878	0.32291	0.31726	0.31810	0.30860	0.31537	3.604
182 4,6-Dichloroguaiacol	+++++	0.51548	0.57045	0.56609	0.57861	0.58642	0.56693	0.56399	4.433
185 4-Chloroguaiacol	+++++	0.53454	0.56196	0.59394	0.59906	0.60299	0.58799	0.58008	4.588

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
106 Guaiacol	1.31655	1.24004	1.23299	1.18332	1.18795	1.16704		
	1.12217						1.20715	5.183
105 1-methylnaphthalene	0.74149	0.66501	0.67894	0.64252	0.61983	0.58074		
	0.55698						0.64079	9.715
151 1,2,4,5-Tetrachlorobenzene	0.80474	0.73406	0.71934	0.70252	0.69462	0.68639		
	0.65422						0.71370	6.648
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Phenol	1.89881	1.92806	1.75475	1.69716	1.59437	1.52833	1.53020	1.70453	9.695
4 Bis(2-Chloroethyl)ether	1.50887	1.36105	1.31022	1.31066	1.26776	1.18856	1.19962	1.30667	8.313
6 2-Chlorophenol	1.65200	1.61864	1.51267	1.47180	1.38752	1.35040	1.32343	1.47378	8.739
7 1,3-Dichlorobenzene	1.94687	1.78065	1.78276	1.72433	1.67465	1.58381	1.52440	1.71678	8.165
9 1,4-Dichlorobenzene	1.86926	1.70537	1.74943	1.70915	1.66135	1.56577	1.51292	1.68189	7.011
11 Benzyl alcohol	0.77509	0.79840	0.85212	0.82991	0.81569	0.77911	0.79833	0.80695	3.424
12 1,2-Dichlorobenzene	1.81140	1.64005	1.63637	1.54853	1.50623	1.40215	1.40328	1.56400	9.333
13 2-Methylphenol	1.38158	1.39693	1.30099	1.28263	1.22315	1.18744	1.12503	1.27111	7.847

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
14 2,2'-oxybis(1-Chloropropane)	1.56111	1.45840	1.45760	1.39900	1.35796	1.27681		
	1.24232						1.39331	7.980
15 4-Methylphenol	1.33792	1.43605	1.32248	1.26810	1.21133	1.13770		
	1.07044						1.25486	9.980
16 N-Nitroso-di-n-propylamine	0.96975	0.90964	0.92513	0.89191	0.88013	0.81864		
	0.79055						0.88368	6.974
17 Hexachloroethane	0.69156	0.62895	0.62970	0.61801	0.59719	0.55598		
	0.53161						0.60757	8.670
19 Nitrobenzene	0.49447	0.44806	0.45461	0.43234	0.41483	0.38265		
	0.38832						0.43075	9.139
20 Isophorone	0.74620	0.69226	0.71744	0.69327	0.67659	0.64123		
	0.63503						0.68600	5.768
21 2-Nitrophenol	0.24226	0.25813	0.25659	0.26172	0.25436	0.25160		
	0.24453						0.25274	2.824
22 2,4-Dimethylphenol	0.45174	0.45432	0.43299	0.42026	0.39913	0.38380		
	0.36884						0.41587	7.975
23 Bis(2-Chloroethoxy)methane	0.52038	0.47785	0.50468	0.47961	0.46835	0.44098		
	0.43564						0.47536	6.495

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
24 Benzoic acid	+++++	0.25353	0.27552	0.32032	0.32546	0.33540	0.33426	0.30742	11.190	
25 2,4-Dichlorophenol	0.37024	0.39379	0.37568	0.36588	0.35534	0.35112	0.33685	0.36413	5.069	
26 1,2,4-Trichlorobenzene	0.45200	0.40330	0.41475	0.40421	0.39011	0.36396	0.35612	0.39778	8.106	
28 Naphthalene	1.34365	1.20046	1.23378	1.14951	1.08605	0.97778	0.92143	1.13038	13.040	
29 4-Chloroaniline	0.50552	0.47709	0.49634	0.45962	0.44170	0.40294	0.38655	0.45282	10.003	
30 Hexachlorobutadiene	0.25638	0.22668	0.23442	0.23404	0.22968	0.22252	0.22014	0.23198	5.186	
31 4-Chloro-3-methylphenol	0.36042	0.36903	0.36214	0.35815	0.34753	0.33596	0.32412	0.35105	4.578	
32 2-Methylnaphthalene	0.72760	0.63815	0.66651	0.61721	0.59789	0.55861	0.53653	0.62036	10.468	
33 Hexachlorocyclopentadiene	0.20062	0.29421	0.36461	0.40146	0.41997	0.41627	0.41693	0.35915	23.148	<-

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
34 2,4,6-Trichlorophenol	0.43015	0.47052	0.46116	0.47882	0.45477	0.45554	0.45431	0.45790	3.343
35 2,4,5-Trichlorophenol	0.47628	0.47205	0.46476	0.48592	0.46888	0.47285	0.46652	0.47246	1.505
37 2-Chloronaphthalene	1.54535	1.40750	1.43034	1.34606	1.26852	1.17397	1.13390	1.32938	11.042
38 2-Nitroaniline	0.31929	0.32596	0.34177	0.33767	0.33711	0.32812	0.32675	0.33095	2.425
39 Dimethylphthalate	1.63732	1.49856	1.57686	1.53153	1.48535	1.40593	1.37278	1.50119	6.141
40 Acenaphthylene	2.38812	2.20629	2.26228	2.11737	1.97889	1.77863	1.67677	2.05833	12.636
41 2,6-Dinitrotoluene	0.32513	0.34390	0.36822	0.36347	0.36531	0.36325	0.36762	0.35670	4.543
43 3-Nitroaniline	0.32531	0.33792	0.35741	0.33779	0.31058	0.26898	0.24663	0.31209	12.886
44 Acenaphthene	1.44933	1.31145	1.35758	1.30569	1.26041	1.17354	1.13988	1.28541	8.251

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
45 2,4-Dinitrophenol	+++++	0.15972	0.20982	0.26548	0.28518	0.29643	0.29677	0.25223	22.113	<-
46 Dibenzofuran	1.97073	1.74217	1.82392	1.71558	1.65479	1.55243	1.49208	1.70738	9.485	
47 4-Nitrophenol	0.14465	0.19170	0.19502	0.19549	0.19673	0.18950	0.18556	0.18552	9.937	
48 2,4-Dinitrotoluene	0.41495	0.43227	0.46723	0.47394	0.48074	0.47156	0.47542	0.45944	5.510	
49 Fluorene	1.72499	1.50935	1.55160	1.46516	1.39788	1.29602	1.23768	1.45467	11.263	
50 Diethylphthalate	1.65609	1.44115	1.46874	1.35703	1.30203	1.29409	1.24820	1.39533	10.031	
51 4-Chlorophenyl-phenylether	0.77786	0.71006	0.72927	0.72419	0.71697	0.69184	0.68535	0.71936	4.228	
52 4-Nitroaniline	0.31952	0.34487	0.36113	0.34628	0.35407	0.35027	0.35598	0.34745	3.896	
53 4,6-Dinitro-2-methylphenol	+++++	0.17800	0.18906	0.20650	0.20336	0.20685	0.20459	0.19806	5.985	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
54 N-Nitrosodiphenylamine	0.76057	0.71351	0.72399	0.68723	0.66721	0.63370	0.60826	0.68493	7.745
56 4-Bromophenyl-phenylether	0.30519	0.28523	0.29802	0.29933	0.29604	0.28568	0.28366	0.29331	2.865
57 Hexachlorobenzene	0.32868	0.30770	0.31766	0.31238	0.30543	0.29668	0.29438	0.30899	3.861
58 Pentachlorophenol	0.11687	0.16065	0.17900	0.20167	0.20189	0.20915	0.20910	0.18262	18.647
60 Phenanthrene	1.45576	1.29440	1.34343	1.25583	1.19585	1.10163	1.04929	1.24231	11.283
61 Anthracene	1.47639	1.34925	1.39267	1.32351	1.24238	1.13218	1.06711	1.28336	11.313
62 Carbazole	1.36692	1.28291	1.30155	1.20074	1.12860	1.04899	1.00778	1.19107	11.334
63 Di-n-butylphthalate	1.55627	1.55895	1.61948	1.54279	1.42773	1.30015	1.21295	1.45976	10.426
64 Fluoranthene	1.46938	1.43951	1.47419	1.40730	1.31885	1.19659	1.11705	1.34612	10.490

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
65 Pyrene	1.49138	1.14703	1.19893	1.29849	1.13413	1.10935	1.05243	1.20453	12.295
67 Butylbenzylphthalate	0.59487	0.51715	0.56810	0.65458	0.58263	0.58548	0.57376	0.58237	6.979
68 Benzo(a)anthracene	1.39098	1.06661	1.10750	1.25843	1.10391	1.09815	1.06749	1.15615	10.590
70 3,3'-Dichlorobenzidine	0.44402	0.35360	0.36752	0.40197	0.35390	0.35362	0.35158	0.37517	9.396
71 Chrysene	1.33967	1.00093	1.04247	1.16040	1.03078	1.01541	0.98576	1.08220	11.749
72 bis(2-Ethylhexyl)phthalate	0.62188	0.63105	0.67615	0.66016	0.63926	0.61152	0.59845	0.63407	4.277
73 Di-n-octylphthalate	1.27928	1.13221	1.13885	1.09382	1.03609	0.97292	0.93556	1.08410	10.667
74 Benzo(b)fluoranthene	1.49258	1.30818	1.42583	1.36294	1.34299	1.22771	1.21188	1.33887	7.544
75 Benzo(k)fluoranthene	1.69142	1.56076	1.49557	1.43389	1.27991	1.16420	1.04777	1.38193	16.524

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
76 Benzo(a)pyrene	1.39809	1.28696	1.36282	1.28220	1.24651	1.15033	1.10139	1.26119	8.455
78 Indeno(1,2,3-cd)pyrene	1.85894	1.70038	1.76063	1.70804	1.67153	1.58151	1.52926	1.68718	6.486
79 Dibenzo(a,h)anthracene	1.37073	1.33009	1.38098	1.33329	1.29862	1.21997	1.14185	1.29650	6.673
80 Benzo(g,h,i)perylene	1.72129	1.54055	1.57913	1.53478	1.50241	1.41521	1.36024	1.52194	7.655
90 N-Nitrosodimethylamine	0.88469	0.84172	0.89111	0.87943	0.86425	0.83117	0.84254	0.86213	2.766
91 Aniline	2.06700	2.01319	2.07738	1.99420	1.93682	1.81178	1.76492	1.95218	6.251
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.45260	0.44131	0.41100	0.39901	0.33246	0.33127	0.32392	0.38451	14.241
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	0.44717	0.37047	0.39056	0.44711	0.41452	0.43343	0.41808	0.41733	6.887
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	1.33649	1.51578	1.62048	1.61940	1.61272	1.55018	1.53311	1.54116	6.500
187 Total Benzofluoranthenes	1.54483	1.34994	1.36948	1.31896	1.23716	1.13146	1.06285	1.28781	12.488
$ 1 2-Fluorophenol	1.32504	1.31481	1.36463	1.36344	1.32946	1.27501	+++++	1.32873	2.516

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$ 137 d8-1,4-Dioxane	0.56856	0.53848	0.55643	0.58008	0.57549	0.56934	0.56922	0.56537	2.462
$ 2 Phenol-d5	1.69382	1.55249	1.59277	1.52515	1.45467	1.38972	+++++	1.53477	6.928
$ 5 2-Chlorophenol-d4	1.47973	1.30309	1.34183	1.27103	1.21380	1.16836	+++++	1.29631	8.421
$ 10 1,2-Dichlorobenzene-d4	0.96853	0.89668	0.93034	0.89435	0.87040	0.83604	+++++	0.89939	5.125
$ 18 Nitrobenzene-d5	0.42483	0.37416	0.39663	0.39082	0.38152	0.36335	+++++	0.38855	5.494
$ 36 2-Fluorobiphenyl	1.65520	1.41789	1.44387	1.37047	1.29517	1.21808	+++++	1.40011	10.705
$ 55 2,4,6-Tribromophenol	0.16694	0.16130	0.18415	0.19150	0.19308	0.19643	+++++	0.18223	8.067
$ 66 Terphenyl-d14	0.84857	0.61959	0.66571	0.76006	0.67516	0.68193	+++++	0.70850	11.610
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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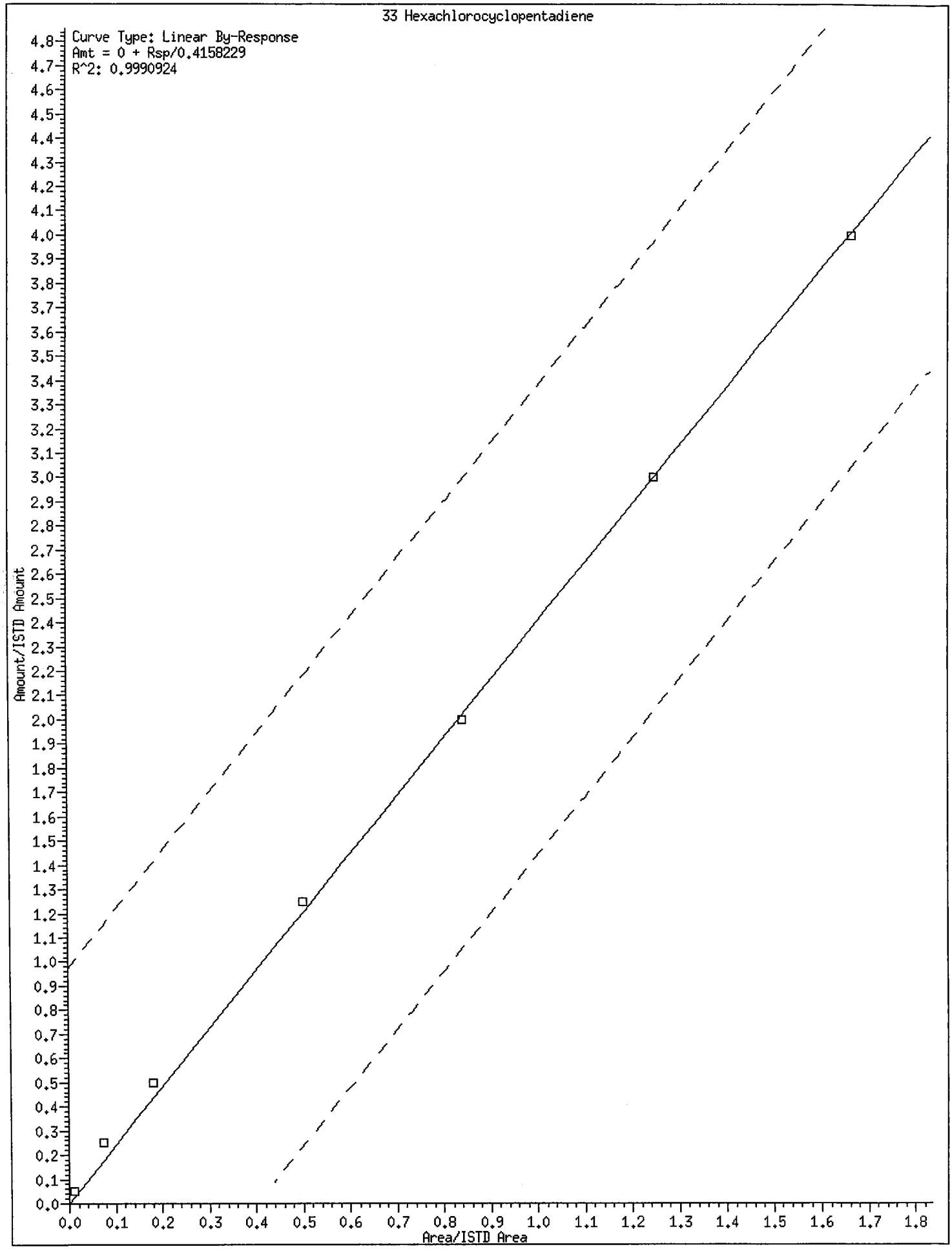
Cal Date : 26-Jul-2010 11:29 jianqing

JQ 07/26/10

Compound	1 Level 1 / 80 Level 7	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 4-Chloro-3-methylphenol	0.36042 0.32412	0.36903	0.36214	0.35815	0.34753	0.33596	AVRG		0.35105		4.57798
32 2-Methylnaphthalene	0.72760 0.53653	0.63815	0.66651	0.61721	0.59789	0.55861	AVRG		0.62036		10.46774
33 Hexachlorocyclopentadiene	3366 562487	24140	58996	160807	275445	425348	LINR	0.000e+00	0.41582		0.99909
34 2,4,6-Trichlorophenol	0.43015 0.45431	0.47052	0.46116	0.47882	0.45477	0.45554	AVRG		0.45790		3.34343
35 2,4,5-Trichlorophenol	0.47628 0.46652	0.47205	0.46476	0.48592	0.46888	0.47285	AVRG		0.47246		1.50508
37 2-Chloronaphthalene	1.54535 1.13390	1.40750	1.43034	1.34606	1.26852	1.17397	AVRG		1.32938		11.04215
38 2-Nitroaniline	0.31929 0.32675	0.32596	0.34177	0.33767	0.33711	0.32812	AVRG		0.33095		2.42548


33 Hexachlorocyclopentadiene
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.4158229
R^2: 0.9990924
Amount/ISTD Amount
Area/ISTD Area
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 1.4 1.5 1.6 1.7 1.8
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 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8

RG94:00772

Analytical Resources, Inc.

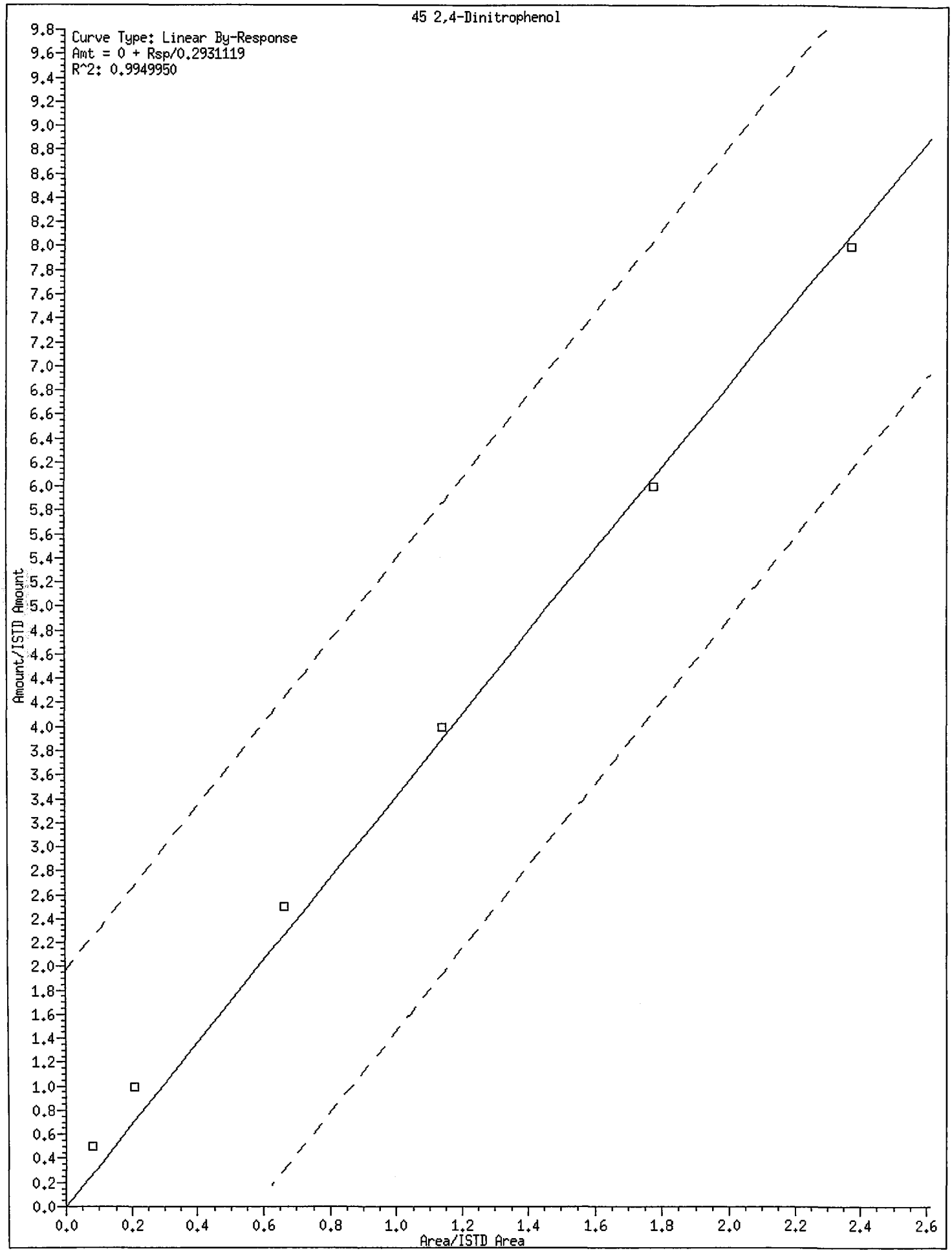
INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing

DZ 07/26/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	80 Level 7										
39 Dimethylphthalate	1.63732	1.49856	1.57686	1.53153	1.48535	1.40593					
	1.37278						AVRG		1.50119		6.14147
40 Acenaphthylene	2.38812	2.20629	2.26228	2.11737	1.97889	1.77863					
	1.67677						AVRG		2.05833		12.63575
41 2,6-Dinitrotoluene	0.32513	0.34390	0.36822	0.36347	0.36531	0.36325					
	0.36762						AVRG		0.35670		4.54287
43 3-Nitroaniline	0.32531	0.33792	0.35741	0.33779	0.31058	0.26898					
	0.24663						AVRG		0.31209		12.88590
44 Acenaphthene	1.44933	1.31145	1.35758	1.30569	1.26041	1.17354					
	1.13988						AVRG		1.28541		8.25094
45 2,4-Dinitrophenol	+++++	26211	67900	212676	374074	605790					
	800753						LINR	0.000e+00	0.29311		0.99500
46 Dibenzofuran	1.97073	1.74217	1.82392	1.71558	1.65479	1.55243					
	1.49208						AVRG		1.70738		9.48459

SJ 7/26/10


45 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.2931119
R^2: 0.9949950
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
9.8
9.6
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 15:01
End Cal Date : 23-JUL-2010 18:38
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20100723.b/SW846072310.m
Cal Date : 26-Jul-2010 11:29 jianqing

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	07231001	07231002	07231003	07231004	07231005	07231006	07231007
INJ.DATE:	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010
INJ.TIME:	15:01	15:38	16:16	16:52	17:29	18:01	18:38

AZ 07/26/10

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	5.605	5.602	5.601	5.605	5.605	5.610	+++++	5.605	2.605-8.605	5.605	0.003
186 Carbaryl	15.689	15.686	15.680	15.684	15.689	15.694	15.702	15.689	12.689-18.689	15.689	0.007
179 n-Decane	7.448	7.440	7.444	7.443	7.448	7.453	7.450	7.448	4.448-10.448	7.447	0.005
180 n-Octadecane	14.829	14.826	14.825	14.824	14.829	14.829	14.832	14.829	11.829-17.829	14.828	0.003
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.531	15.531-21.531	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.634	13.634-19.634	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	13.863-19.863	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.605	17.605-23.605	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.015	14.015-20.015	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.562	14.562-20.562	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.781	3.781-9.781	+++++	+++++
168 Pentachlorobenzene	12.853	12.850	12.849	12.853	12.858	12.863	12.866	12.853	9.853-15.853	12.856	0.007
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: 7/26/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.269	36.269-42.269	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	2.107	2.109	2.103	2.107	2.112	2.122	2.125	2.107	0.000-5.107	2.112	0.008
* 134 Di-n-octylphthalate-d4	20.346	20.344	20.343	20.347	20.347	20.346	20.354	20.346	17.346-23.346	20.347	0.004
133 Butylatedhydroxytoluen	12.698	12.695	12.694	12.698	12.698	12.703	12.706	12.698	9.698-15.698	12.699	0.004
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	9.718	9.715	9.714	9.718	9.723	9.728	9.731	9.718	6.718-12.718	9.721	0.007
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	8.302	8.300	8.299	8.303	8.308	8.313	8.316	8.302	5.302-11.302	8.306	0.007
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	2.149	2.152	2.146	2.150	2.155	2.165	2.168	2.149	0.000-5.149	2.155	0.008
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	13.104	13.107	13.100	13.104	13.110	13.109	13.112	13.104	10.104-16.104	13.107	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.128	13.128-19.128	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	18.723	18.720	18.714	18.718	18.723	18.722	18.731	18.723	15.723-21.723	18.721	0.005
117 Butyl Diphenyl Phospha	17.126	17.123	17.122	17.126	17.126	17.131	17.134	17.126	14.126-20.126	17.127	0.004
116 Dibutyl Phenyl Phospha	15.449	15.446	15.445	15.449	15.454	15.454	15.457	15.449	12.449-18.449	15.450	0.004
115 Tributyl Phosphate	13.734	13.726	13.731	13.729	13.745	13.755	13.763	13.734	10.734-16.734	13.741	0.014
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	11.779	11.777	11.776	11.774	11.780	11.779	11.782	11.779	8.779-14.779	11.778	0.003
112 Biphenyl	11.582	11.579	11.578	11.577	11.582	11.587	11.590	11.582	8.582-14.582	11.582	0.005
111 Azobenzene (1,2-DP-Hyd	13.654	13.646	13.650	13.649	13.654	13.659	13.667	13.654	10.654-16.654	13.654	0.007
110 Tetrachloroguaiacol	14.824	14.821	14.820	14.824	14.829	14.834	14.842	14.824	11.824-17.824	14.828	0.008
109 3,4,5-Trichloroguaiaco	13.205	13.203	13.202	13.206	13.211	13.210	13.219	13.205	10.205-16.205	13.208	0.006
181 3,4,6-Trichloroguaiaco	13.323	13.320	13.314	13.318	13.323	13.328	13.331	13.323	10.323-16.323	13.322	0.006
108 4,5,6-Trichloroguaiaco	14.242	14.239	14.238	14.237	14.242	14.247	14.250	14.242	11.242-17.242	14.242	0.005
184 3,4-Dichloroguaiacol	11.667	11.670	11.669	11.667	11.673	11.672	11.675	11.667	8.667-14.667	11.671	0.003
107 4,5-Dichloroguaiacol	12.463	12.460	12.459	12.458	12.469	12.468	12.476	12.463	9.463-15.463	12.465	0.007
182 4,6-Dichloroguaiacol	12.463	12.460	12.459	12.458	12.469	12.468	12.476	12.463	9.463-15.463	12.465	0.007
185 4-Chloroguaiacol	10.594	10.586	10.590	10.594	10.594	10.593	10.596	10.594	7.594-13.594	10.592	0.003

RG$10 09/17/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	8.575	8.572	8.571	8.575	8.580	8.585	8.588	8.575	5.575-11.575	8.578	0.007
105 1-methylnaphthalene	10.968	10.965	10.964	10.968	10.968	10.973	10.975	10.968	7.968-13.968	10.969	0.004
151 1,2,4,5-Tetrachloroben	11.138	11.136	11.135	11.133	11.139	11.138	11.141	11.138	8.138-14.138	11.137	0.003
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.442	20.442-26.442	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.968	18.968-24.968	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.466	20.466-26.466	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.866	19.866-25.866	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.413	20.413-26.413	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.952	21.952-27.952	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.721	18.721-24.721	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.159	15.159-21.159	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2 Phenol-d5	7.207	7.205	7.204	7.202	7.213	7.218	0.000	7.207	4.207-10.207	6.178	2.724
3 Phenol	7.229	7.221	7.220	7.224	7.229	7.239	7.237	7.229	4.229-10.229	7.228	0.008
4 Bis(2-Chloroethyl)ethe	7.282	7.274	7.273	7.277	7.282	7.287	7.290	7.282	4.282-10.282	7.281	0.006
5 2-Chlorophenol-d4	7.293	7.296	7.295	7.293	7.298	7.303	+++++	7.293	4.293-10.293	7.296	0.004

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Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
6	2-Chlorophenol	7.320	7.317	7.316	7.320	7.320	7.325	7.327	7.320	4.320-10.320	7.321	0.004
7	1,3-Dichlorobenzene	7.523	7.525	7.524	7.523	7.528	7.533	7.530	7.523	4.523-10.523	7.527	0.004
* 8	1,4-Dichlorobenzene-d4	7.592	7.589	7.588	7.592	7.592	7.597	7.595	7.592	4.592-10.592	7.592	0.003
9	1,4-Dichlorobenzene	7.619	7.616	7.615	7.614	7.619	7.624	7.621	7.619	4.619-10.619	7.618	0.004
$ 10	1,2-Dichlorobenzene-d4	7.891	7.888	7.887	7.891	7.891	7.896	0.000	7.891	4.891-10.891	6.764	2.983
11	Benzyl alcohol	7.896	7.894	7.893	7.897	7.902	7.907	7.910	7.896	4.896-10.896	7.900	0.007
12	1,2-Dichlorobenzene	7.912	7.910	7.909	7.913	7.913	7.918	7.915	7.912	4.912-10.912	7.913	0.003
13	2-Methylphenol	8.158	8.150	8.155	8.153	8.158	8.163	8.166	8.158	5.158-11.158	8.158	0.006
14	2,2'-oxybis(1-Chloropr	8.158	8.155	8.160	8.158	8.158	8.163	8.161	8.158	5.158-11.158	8.159	0.002
15	4-Methylphenol	8.393	8.385	8.389	8.388	8.399	8.404	8.406	8.393	5.393-11.393	8.395	0.008
16	N-Nitroso-di-n-propyla	8.377	8.369	8.368	8.367	8.383	8.388	8.390	8.377	5.377-11.377	8.377	0.010
17	Hexachloroethane	8.398	8.396	8.400	8.399	8.399	8.404	8.406	8.398	5.398-11.398	8.400	0.004
$ 18	Nitrobenzene-d5	8.537	8.529	8.528	8.532	8.538	8.542	+++++	8.537	5.537-11.537	8.535	0.005
19	Nitrobenzene	8.564	8.556	8.560	8.559	8.570	8.574	8.572	8.564	5.564-11.564	8.565	0.007
20	Isophorone	8.949	8.941	8.945	8.944	8.954	8.959	8.967	8.949	5.949-11.949	8.951	0.010
21	2-Nitrophenol	9.082	9.079	9.079	9.082	9.082	9.087	9.090	9.082	6.082-12.082	9.083	0.004
22	2,4-Dimethylphenol	9.226	9.218	9.217	9.221	9.227	9.231	9.234	9.226	6.226-12.226	9.225	0.006
23	Bis(2-Chloroethoxy)met	9.360	9.357	9.356	9.360	9.365	9.370	9.373	9.360	6.360-12.360	9.363	0.007
24	Benzoic acid	9.477	9.347	9.383	9.419	9.520	9.568	9.603	9.477	6.477-12.477	9.474	0.096
25	2,4-Dichlorophenol	9.477	9.475	9.474	9.472	9.478	9.482	9.485	9.477	6.477-12.477	9.478	0.005
26	1,2,4-Trichlorobenzene	9.590	9.587	9.591	9.590	9.595	9.595	9.597	9.590	6.590-12.590	9.592	0.004
* 27	Naphthalene-d8	9.643	9.640	9.639	9.643	9.649	9.648	9.651	9.643	6.643-12.643	9.645	0.004
28	Naphthalene	9.675	9.672	9.671	9.670	9.675	9.680	9.683	9.675	6.675-12.675	9.675	0.005
29	4-Chloroaniline	9.835	9.838	9.837	9.835	9.841	9.840	9.843	9.835	6.835-12.835	9.839	0.003

RC81-60786

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	10.006	10.003	10.003	10.001	10.006	10.006	10.009	10.006	7.006-13.006	10.005	0.003
	31 4-Chloro-3-methylpheno	10.674	10.671	10.670	10.669	10.674	10.679	10.682	10.674	7.674-13.674	10.674	0.005
	32 2-Methylnaphthalene	10.797	10.794	10.798	10.797	10.797	10.802	10.805	10.797	7.797-13.797	10.798	0.004
	33 Hexachlorocyclopentadi	11.181	11.179	11.183	11.181	11.181	11.181	11.184	11.181	8.181-14.181	11.181	0.002
	34 2,4,6-Trichlorophenol	11.325	11.323	11.322	11.320	11.326	11.330	11.333	11.325	8.325-14.325	11.326	0.005
	35 2,4,5-Trichlorophenol	11.384	11.387	11.380	11.379	11.384	11.389	11.392	11.384	8.384-14.384	11.385	0.005
$	36 2-Fluorobiphenyl	11.454	11.446	11.450	11.448	11.454	11.453	0.000	11.454	8.454-14.454	9.815	4.328
	37 2-Chloronaphthalene	11.571	11.568	11.567	11.571	11.577	11.576	11.579	11.571	8.571-14.571	11.573	0.004
	38 2-Nitroaniline	11.822	11.819	11.818	11.817	11.828	11.832	11.835	11.822	8.822-14.822	11.825	0.007
	39 Dimethylphthalate	12.207	12.199	12.198	12.202	12.207	12.217	12.220	12.207	9.207-15.207	12.207	0.009
	40 Acenaphthylene	12.244	12.241	12.246	12.244	12.250	12.249	12.252	12.244	9.244-15.244	12.247	0.004
	41 2,6-Dinitrotoluene	12.292	12.289	12.288	12.287	12.298	12.303	12.305	12.292	9.292-15.292	12.295	0.007
*	42 Acenaphthene-d10	12.500	12.498	12.497	12.495	12.501	12.500	12.503	12.500	9.500-15.500	12.499	0.003
	43 3-Nitroaniline	12.500	12.498	12.497	12.495	12.506	12.516	12.519	12.500	9.500-15.500	12.504	0.010
	44 Acenaphthene	12.548	12.546	12.545	12.549	12.554	12.559	12.562	12.548	9.548-15.548	12.552	0.007
	45 2,4-Dinitrophenol	12.666	12.663	12.662	12.661	12.672	12.682	12.690	12.666	9.666-15.666	12.671	0.011
	46 Dibenzofuran	12.810	12.808	12.807	12.810	12.816	12.821	12.823	12.810	9.810-15.810	12.814	0.007
	47 4-Nitrophenol	12.842	12.845	12.839	12.837	12.842	12.853	12.861	12.842	9.842-15.842	12.846	0.008
	48 2,4-Dinitrotoluene	12.917	12.909	12.908	12.912	12.917	12.927	12.930	12.917	9.917-15.917	12.917	0.009
	49 Fluorene	13.366	13.363	13.362	13.366	13.371	13.376	13.379	13.366	10.366-16.366	13.369	0.007
	50 Diethylphthalate	13.360	13.347	13.351	13.355	13.366	13.371	13.368	13.360	10.360-16.360	13.360	0.009
	51 4-Chlorophenyl-phenyle	13.403	13.400	13.399	13.403	13.409	13.408	13.411	13.403	10.403-16.403	13.405	0.004
	52 4-Nitroaniline	13.494	13.486	13.485	13.489	13.505	13.515	13.523	13.494	10.494-16.494	13.499	0.015
	53 4,6-Dinitro-2-methylph	13.563	13.555	13.554	13.558	13.574	13.584	13.593	13.563	10.563-16.563	13.569	0.015

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	13.611	13.609	13.608	13.612	13.617	13.622	13.630	13.611	10.611-16.611	13.615	0.008
$	55 2,4,6-Tribromophenol	13.793	13.785	13.784	13.788	13.793	13.798	+++++	13.793	10.793-16.793	13.790	0.005
	56 4-Bromophenyl-phenylet	14.183	14.175	14.179	14.178	14.183	14.183	14.185	14.183	11.183-17.183	14.181	0.004
	57 Hexachlorobenzene	14.386	14.389	14.382	14.386	14.391	14.391	14.399	14.386	11.386-17.386	14.389	0.005
	58 Pentachlorophenol	14.696	14.693	14.692	14.691	14.696	14.701	14.704	14.696	11.696-17.696	14.696	0.005
*	59 Phenanthrene-d10	14.861	14.859	14.858	14.861	14.867	14.866	14.869	14.861	11.861-17.861	14.863	0.004
	60 Phenanthrene	14.899	14.896	14.895	14.893	14.904	14.909	14.912	14.899	11.899-17.899	14.901	0.007
	61 Anthracene	14.973	14.965	14.964	14.968	14.974	14.978	14.987	14.973	11.973-17.973	14.973	0.008
	62 Carbazole	15.267	15.264	15.263	15.267	15.273	15.272	15.280	15.267	12.267-18.267	15.270	0.006
	63 Di-n-butylphthalate	16.004	16.002	16.001	16.004	16.004	16.009	16.012	16.004	13.004-19.004	16.005	0.004
	64 Fluoranthene	16.827	16.824	16.823	16.822	16.827	16.832	16.835	16.827	13.827-19.827	16.827	0.005
	65 Pyrene	17.179	17.171	17.176	17.174	17.179	17.184	17.187	17.179	14.179-20.179	17.179	0.006
$	66 Terphenyl-d14	17.510	17.508	17.512	17.511	17.516	17.515	0.000	17.510	14.510-20.510	15.010	6.619
	67 Butylbenzylphthalate	18.413	18.410	18.404	18.408	18.413	18.413	18.421	18.413	15.413-21.413	18.412	0.005
	68 Benzo(a)anthracene	19.134	19.131	19.130	19.134	19.140	19.144	19.147	19.134	16.134-22.134	19.137	0.007
*	69 Chrysene-d12	19.161	19.153	19.157	19.156	19.166	19.166	19.169	19.161	16.161-22.161	19.161	0.006
	70 3,3'-Dichlorobenzidine	19.166	19.158	19.162	19.161	19.166	19.166	19.174	19.166	16.166-22.166	19.165	0.005
	71 Chrysene	19.198	19.190	19.194	19.198	19.204	19.209	19.217	19.198	16.198-22.198	19.201	0.009
	72 bis(2-Ethylhexyl)phtha	19.417	19.414	19.413	19.417	19.417	19.417	19.420	19.417	16.417-22.417	19.417	0.002
	73 Di-n-octylphthalate	20.357	20.354	20.354	20.357	20.357	20.362	20.360	20.357	17.357-23.357	20.357	0.003
	74 Benzo(b)fluoranthene	20.784	20.776	20.781	20.779	20.790	20.795	20.803	20.784	17.784-23.784	20.787	0.010
	75 Benzo(k)fluoranthene	20.816	20.808	20.813	20.811	20.822	20.832	20.840	20.816	17.816-23.816	20.821	0.012
	76 Benzo(a)pyrene	21.228	21.220	21.224	21.223	21.233	21.238	21.246	21.228	18.228-24.228	21.230	0.010
	77 Perylene-d12	21.308	21.305	21.304	21.303	21.308	21.308	21.316	21.308	18.308-24.308	21.307	0.004

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/nt6.i/20100723.b/SW846072310.m
Batch File: /chem1/nt6.i/20100723.b
Inst ID: nt6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	78 Indeno(1,2,3-cd)pyrene	22.697	22.689	22.688	22.686	22.707	22.712	22.720	22.697	19.697-25.697	22.700	0.014
	79 Dibenzo(a,h)anthracene	22.723	22.710	22.714	22.718	22.729	22.739	22.747	22.723	19.723-25.723	22.726	0.013
	80 Benzo(g,h,i)perylene	23.054	23.036	23.040	23.044	23.065	23.075	23.089	23.054	20.054-26.054	23.058	0.020
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	2.721	2.718	2.717	2.716	2.732	2.742	2.750	2.721	0.000-5.721	2.728	0.014
	91 Aniline	7.154	7.151	7.150	7.149	7.154	7.159	7.157	7.154	4.154-10.154	7.154	0.004
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	17.099	17.102	17.095	17.099	17.099	17.104	17.107	17.099	14.099-20.099	17.101	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	17.751	17.753	17.747	17.751	17.751	17.756	17.759	17.751	14.751-20.751	17.752	0.004
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.125	28.125-34.125	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.717	15.717-21.717	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.964	19.964-25.964	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	2.689	2.713	2.696	2.694	2.694	2.705	2.702	2.689	0.000-5.689	2.699	0.008
	187 Total Benzofluoranthen	20.816	20.808	20.813	20.811	20.822	20.832	20.840	20.816	17.816-23.816	20.821	0.012

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: QVTAL Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 7/19/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO / NA
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 07/21/10

Reviewer: _____ **Date:** 7/22/10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt4.i/20100719.b/07191002.d
Level 2: /chem3/nt4.i/20100719.b/07191003.d
Level 3: /chem3/nt4.i/20100719.b/07191004.d
Level 4: /chem3/nt4.i/20100719.b/07191001.d
Level 5: /chem3/nt4.i/20100719.b/07191005.d
Level 6: /chem3/nt4.i/20100719.b/07191006.d
Level 7: /chem3/nt4.i/20100719.b/07191007.d

JB 07/20/10

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 n-Decane	0.92180	0.82264	0.83087	0.80562	0.77461	0.72218	0.72634	0.80058	8.602
180 n-Octadecane	0.30254	0.30439	0.30088	0.27733	0.26049	0.23560	0.24283	0.27487	10.602
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 Pentachlorobenzene	0.48861	0.40393	0.42050	0.40899	0.40317	0.38693	0.40461	0.41668	7.974
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Butylatedhydroxytoluene	1.19720	1.04095	0.99330	0.97685	0.89378	0.77988	0.78639	0.95262	15.499
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 alpha-Terpineol	0.20333	0.18267	0.17306	0.16830	0.15310	0.14414	0.14638	0.16728	12.784
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Acetophenone	0.47112	0.43077	0.44900	0.41885	0.42391	0.38242	0.39668	0.42468	7.057
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 1,4-Dioxane	0.42414	0.38659	0.38470	0.38545	0.38216	0.36299	0.37185	0.38541	4.967
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2,3,4,6-Tetrachlorophenol	0.25519	0.28418	0.30668	0.32679	0.31590	0.31226	0.32321	0.30346	8.378

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Triphenyl Phosphate	0.21448	0.19694	0.20258	0.20992	0.19726	0.19550	0.20200	0.20267	3.524
117 Butyl Diphenyl Phosphate	0.20655	0.19943	0.20154	0.21935	0.20468	0.19710	0.20303	0.20453	3.550
116 Dibutyl Phenyl Phosphate	0.63142	0.63922	0.64164	0.65657	0.62011	0.59024	0.58599	0.62360	4.271
115 Tributyl Phosphate	0.82256	0.81058	0.82385	0.77329	0.73758	0.67365	0.67146	0.75899	8.759
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Diphenyl Oxide	1.27946	1.14210	1.08994	1.06974	1.02840	0.95213	0.97094	1.07610	10.365
112 Biphenyl	1.45512	1.34252	1.29488	1.25164	1.18585	1.05874	1.07159	1.23719	11.621

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
111 Azobenzene (1,2-DP-Hydrazine)	1.14006	1.05422	1.06029	0.98330	0.93779	0.85870		
	0.88505						0.98849	10.333
110 Tetrachloroguaiacol	0.11596	0.11133	0.11890	0.12191	0.11926	0.11335		
	0.11589						0.11666	3.126
109 3,4,5-Trichloroguaiacol	0.11049	0.11016	0.12312	0.12448	0.12647	0.12285		
	0.12207						0.11995	5.607
181 3,4,6-Trichloroguaiacol	0.12878	0.13256	0.14742	0.14807	0.14839	0.14105		
	0.14100						0.14104	5.542
108 4,5,6-Trichloroguaiacol	0.11309	0.11565	0.12736	0.12953	0.13025	0.12878		
	0.13208						0.12525	6.072
184 3,4-Dichloroguaiacol	0.18718	0.19558	0.20120	0.21429	0.21460	0.21416		
	0.22213						0.20702	6.072
107 4,5-Dichloroguaiacol	0.24994	0.26319	0.28360	0.28782	0.31885	0.31206		
	0.32256						0.29115	9.653
182 4,6-Dichloroguaiacol	0.26639	0.25087	0.25423	0.27031	0.24545	0.25236		
	0.25904						0.25695	3.442
185 4-Chloroguaiacol	0.52855	0.55087	0.58184	0.65330	0.62945	0.63641		
	0.65684						0.60532	8.508

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
106 Guaiacol	1.15403	1.10226	1.04007	1.07495	1.03019	1.00527	1.05597	1.06610	4.672
105 1-methylnaphthalene	0.73856	0.63642	0.64470	0.63475	0.63080	0.56290	0.57420	0.63176	9.061
151 1,2,4,5-Tetrachlorobenzene	0.60742	0.54668	0.51019	0.52365	0.49918	0.49132	0.50330	0.52596	7.664
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Phenol	1.52327	1.49036	1.44408	1.42057	1.27348	1.24736		
	1.25719						1.37947	8.499
4 Bis(2-Chloroethyl)ether	1.15389	1.05315	1.02928	1.02414	1.00496	0.95372		
	0.98212						1.02875	6.230
6 2-Chlorophenol	1.37703	1.36240	1.36527	1.36485	1.23335	1.24332		
	1.24328						1.31278	5.206
7 1,3-Dichlorobenzene	1.70982	1.50199	1.50118	1.48198	1.44634	1.37413		
	1.42568						1.49159	7.143
9 1,4-Dichlorobenzene	1.69819	1.51370	1.53118	1.50592	1.47489	1.38965		
	1.43221						1.50653	6.502
11 Benzyl alcohol	+++++	0.91223	0.79662	0.78505	0.73616	0.72469		
	0.73582						0.78176	8.991
12 1,2-Dichlorobenzene	1.58084	1.43971	1.41297	1.38858	1.37137	1.28892		
	1.33936						1.40311	6.593
13 2-Methylphenol	1.00242	1.11049	1.11324	1.09858	1.00909	1.01582		
	1.02716						1.05383	4.830

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
14 2,2'-oxybis(1-Chloropropane)	1.13408	1.01956	0.99179	0.96247	0.92361	0.85484	0.88281	0.96702	9.707
15 4-Methylphenol	1.07650	1.16260	1.11867	1.13237	1.04810	1.05052	1.06807	1.09383	4.048
16 N-Nitroso-di-n-propylamine	0.78726	0.74703	0.72321	0.71449	0.70269	0.67015	0.70434	0.72131	5.160
17 Hexachloroethane	0.59135	0.55760	0.55641	0.56043	0.55416	0.53089	0.55511	0.55799	3.172
19 Nitrobenzene	0.34489	0.32224	0.32158	0.30263	0.30059	0.27111	0.28230	0.30648	8.251
20 Isophorone	0.57278	0.51716	0.52559	0.50326	0.49812	0.45867	0.48724	0.50898	6.978
21 2-Nitrophenol	0.16195	0.18553	0.20346	0.20681	0.19423	0.19296	0.19540	0.19148	7.720
22 2,4-Dimethylphenol	0.34079	0.36339	0.36901	0.35409	0.32771	0.31174	0.31961	0.34090	6.502
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829	0.33302	0.35475	7.699

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24 Benzoic acid	+++++	0.15013	0.22239	0.26771	0.26141	0.27115	0.28027	0.24218	20.377	<-
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644	0.29424	0.29949	8.019	
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123	0.31968	0.33353	5.349	
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689	0.79230	0.94898	14.906	
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529	0.34011	0.37840	6.924	
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448	0.17979	0.18923	7.318	
31 4-Chloro-3-methylphenol	0.20393	0.27117	0.29842	0.30937	0.28574	0.27836	0.27550	0.27464	12.366	
32 2-Methylnaphthalene	0.74630	0.66270	0.66341	0.64960	0.63860	0.57380	0.58003	0.64492	9.012	
33 Hexachlorocyclopentadiene	0.19670	0.24178	0.28639	0.31893	0.32950	0.33112	0.34400	0.29263	18.716	

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34 2,4,6-Trichlorophenol	0.30819	0.35802	0.37214	0.38430	0.36043	0.36626	0.37085	0.36003	6.787
35 2,4,5-Trichlorophenol	0.24826	0.35083	0.38002	0.41048	0.38587	0.39121	0.39911	0.36654	15.105
37 2-Chloronaphthalene	1.24508	1.12343	1.11327	1.10426	1.06169	0.96578	1.00077	1.08775	8.398
38 2-Nitroaniline	0.14117	0.18570	0.22375	0.23754	0.22985	0.22602	0.22604	0.21001	16.476
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414	1.19011	1.27768	7.480
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771	1.40886	1.64077	12.334
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576	0.30088	0.28751	7.563
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809	0.20565	0.25351	12.551
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431	0.98045	1.06825	9.248

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45 2,4-Dinitrophenol	+++++	0.03672	0.10442	0.16137	0.17851	0.19947	0.20969	0.14836	44.553	<-
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954	1.28807	1.42396	9.465	
47 4-Nitrophenol	0.14176	0.14832	0.18103	0.19488	0.19349	0.19799	0.19695	0.17920	13.431	
48 2,4-Dinitrotoluene	0.28796	0.35208	0.40205	0.40448	0.40680	0.39051	0.40980	0.37910	11.820	
49 Fluorene	1.44497	1.29959	1.31553	1.25982	1.17937	1.05063	1.07434	1.23204	11.392	
50 Diethylphthalate	1.57307	1.36806	1.41182	1.31777	1.26768	1.13760	1.17582	1.32169	11.204	
51 4-Chlorophenyl-phenylether	0.69474	0.61629	0.61711	0.60255	0.58436	0.52633	0.54152	0.59756	9.315	
52 4-Nitroaniline	0.28107	0.27988	0.27202	0.26389	0.27732	0.26889	0.27942	0.27464	2.371	
53 4,6-Dinitro-2-methylphenol	+++++	0.08845	0.12548	0.14855	0.14840	0.15739	0.15973	0.13800	19.657	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
54 N-Nitrosodiphenylamine	0.59897	0.56644	0.58454	0.56521	0.56824	0.52773	0.53790	0.56415	4.382
56 4-Bromophenyl-phenylether	0.21096	0.20155	0.21106	0.20521	0.20601	0.19314	0.20319	0.20445	3.008
57 Hexachlorobenzene	0.24169	0.20966	0.21365	0.20517	0.20414	0.19121	0.20035	0.20941	7.598
58 Pentachlorophenol	+++++	0.12236	0.13905	0.15024	0.14329	0.14966	0.15151	0.14268	7.744
60 Phenanthrene	1.26953	1.07829	1.08369	1.03854	0.98609	0.89265	0.90371	1.03607	12.407
61 Anthracene	1.26876	1.10675	1.12399	1.07407	1.02212	0.90794	0.91554	1.05988	11.902
62 Carbazole	1.14479	1.01093	0.98838	0.94710	0.92667	0.85605	0.86786	0.96311	10.213
63 Di-n-butylphthalate	1.39044	1.32866	1.35805	1.29164	1.18853	1.02048	1.01833	1.22802	12.705
64 Fluoranthene	1.23295	1.10063	1.14509	1.10131	1.07018	0.93571	0.92842	1.07347	10.212

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65 Pyrene	1.54895	1.32386	1.30232	1.29301	1.19639	1.08660	1.12621	1.26819	12.130
67 Butylbenzylphthalate	0.63232	0.62704	0.69192	0.67226	0.65120	0.60529	0.62513	0.64359	4.672
68 Benzo(a)anthracene	1.39978	1.20719	1.24065	1.17611	1.11630	1.01634	1.05028	1.17238	11.012
70 3,3'-Dichlorobenzidine	0.36883	0.40238	0.42289	0.39897	0.37590	0.34353	0.34172	0.37917	8.081
71 Chrysene	1.38365	1.19972	1.21395	1.15816	1.07914	0.97665	1.02095	1.14746	11.954
72 bis(2-Ethylhexyl)phthalate	0.53161	0.56815	0.61721	0.58487	0.58969	0.54278	0.54044	0.56782	5.521
73 Di-n-octylphthalate	1.26596	1.05129	1.06355	0.99565	0.93391	0.82830	0.82184	0.99436	15.514
74 Benzo(b)fluoranthene	1.40393	1.29239	1.31290	1.21076	1.20926	1.06436	1.22076	1.24491	8.538
75 Benzo(k)fluoranthene	1.53572	1.29180	1.33244	1.33678	1.21455	1.11293	1.00320	1.26106	13.651

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187 Total Benzofluoranthenes	1.38210	1.22664	1.24385	1.19904	1.14180	1.02417	1.04387	1.18021	10.477
76 Benzo(a)pyrene	1.23441	1.10443	1.13165	1.12539	1.08511	1.00857	1.04071	1.10432	6.582
78 Indeno(1,2,3-cd)pyrene	1.10926	1.07903	1.19493	1.24464	1.26134	1.17723	1.23424	1.18581	5.856
79 Dibenzo(a,h)anthracene	0.81878	0.86277	0.96765	1.02741	1.03845	0.95450	1.00345	0.95329	8.751
80 Benzo(g,h,i)perylene	0.94422	0.90041	1.05378	1.04646	1.07844	1.01381	1.05822	1.01362	6.558
90 N-Nitrosodimethylamine	0.64783	0.59968	0.56719	0.58049	0.56446	0.53912	0.57962	0.58263	5.869
91 Aniline	1.66497	1.54617	1.49097	1.44064	1.35252	1.27767	1.30611	1.43987	9.674
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.42376	0.43565	0.41475	0.34689	0.33093	0.31136	0.30159	0.36642	15.475

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96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	0.45889	0.42060	0.41951	0.43772	0.41600	0.40302	0.41927	0.42500	4.249
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	0.90268	0.95399	1.04225	1.06515	1.04732	0.97877	1.04329	1.00478	6.029
$ 1 2-Fluorophenol	1.16448	1.12400	1.01131	1.14250	1.05748	1.03186	1.05437	1.08371	5.470

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	80.000 Level 7							
$ 137 d8-1,4-Dioxane	0.43005	0.40873	0.39728	0.39731	0.39810	0.37989		
	0.39506						0.40092	3.838
$ 2 Phenol-d5	1.09019	1.11643	1.02349	1.12745	1.05098	1.00985		
	1.04391						1.06604	4.295
$ 5 2-Chlorophenol-d4	1.21573	1.17992	1.08812	1.18777	1.11736	1.08778		
	1.13033						1.14386	4.448
$ 10 1,2-Dichlorobenzene-d4	0.97264	0.91430	0.80244	0.85219	0.81452	0.79829		
	0.81850						0.85327	7.758
$ 18 Nitrobenzene-d5	0.32597	0.33013	0.31174	0.31824	0.30824	0.28032		
	0.29218						0.30955	5.796
$ 36 2-Fluorobiphenyl	1.46388	1.33164	1.17402	1.25846	1.16251	1.07975		
	1.10556						1.22512	11.123
$ 55 2,4,6-Tribromophenol	0.11310	0.14211	0.14091	0.15595	0.14884	0.14537		
	0.15489						0.14302	10.084
$ 66 Terphenyl-d14	0.93602	0.81779	0.74164	0.80245	0.72726	0.68592		
	0.70996						0.77444	11.066
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

RG94 : 666802

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

AB 07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	80 Level 7										
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829					
	0.33302						AVRG		0.35475		7.69914
24 Benzoic acid	+++++	76277	295968	865635	1401298	2377813					
	2519498						LINR	0.000e+00	0.27416		0.99624
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644					
	0.29424						AVRG		0.29949		8.01880
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123					
	0.31968						AVRG		0.33353		5.34949
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689					
	0.79230						AVRG		0.94898		14.90588
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529					
	0.34011						AVRG		0.37840		6.92405
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448					
	0.17979						AVRG		0.18923		7.31839

RG91-9989

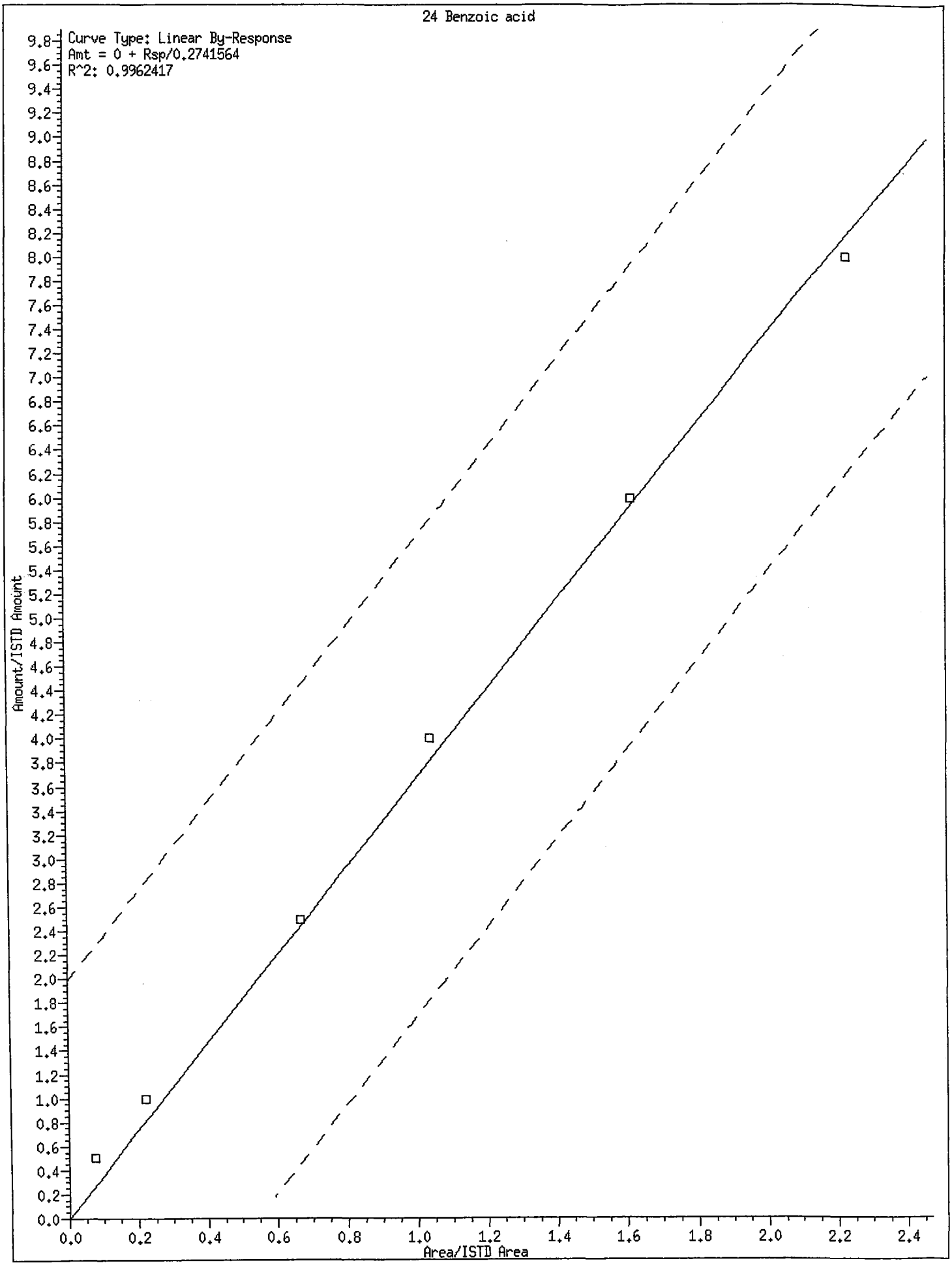
Analytical Resources, Inc.

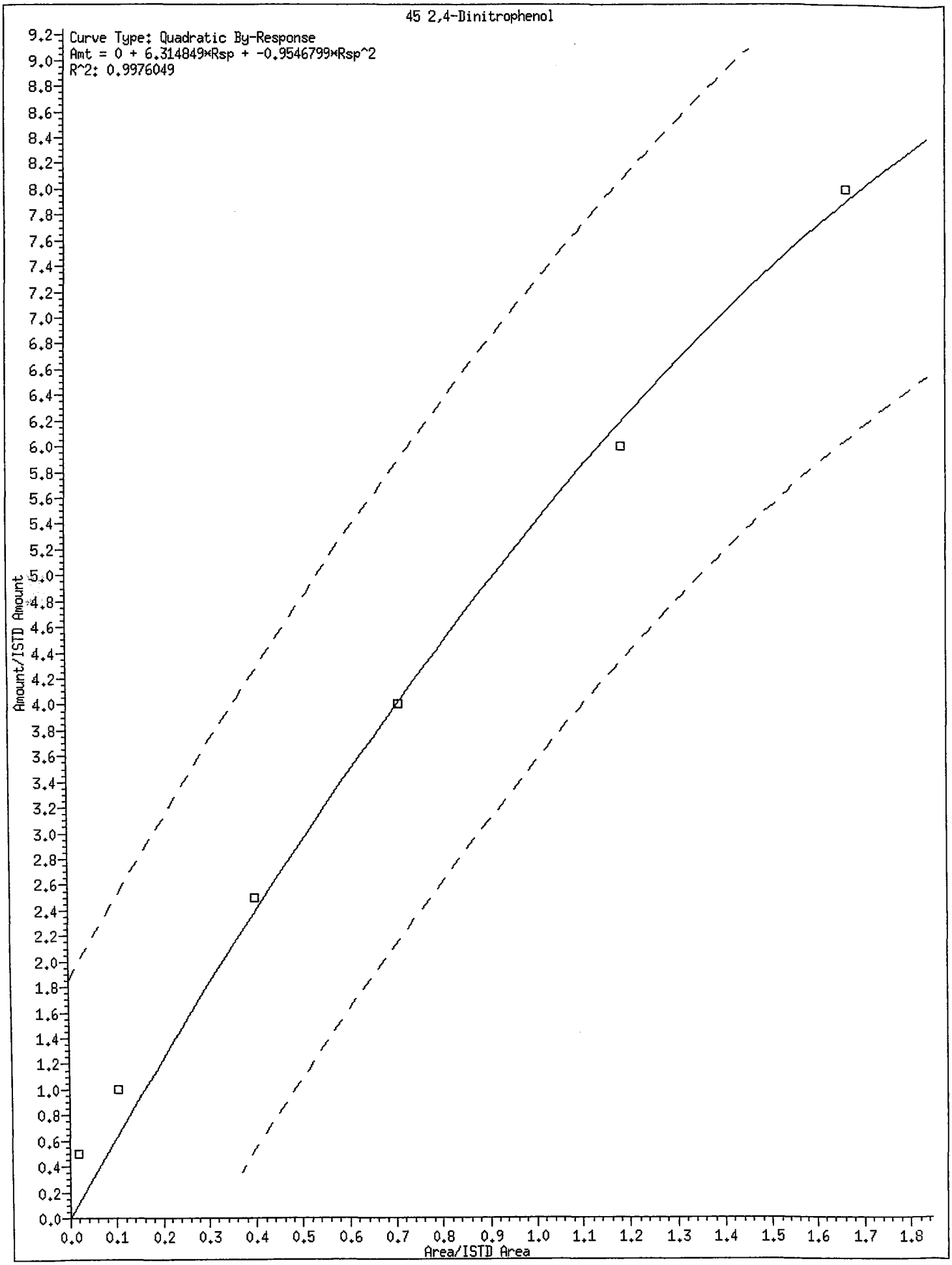
INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	80 Level 7										
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414					
	1.19011						AVRG		1.27768		7.48035
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771					
	1.40886						AVRG		1.64077		12.33449
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576					
	0.30088						AVRG		0.28751		7.56349
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809					
	0.20565						AVRG		0.25351		12.55145
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431					
	0.98045						AVRG		1.06825		9.24750
45 2,4-Dinitrophenol	+++++	10990	84130	317048	599293	1050607					
	1116227						QUAD	0.000e+00	6.31485	-0.95468	0.99760
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954					
	1.28807						AVRG		1.42396		9.46465


24 Benzoic acid
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.2741564
R^2: 0.9962417
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4


45 2,4-Dinitrophenol
Curve Type: Quadratic By-Response
Amt = 0 + 6.314849*Rsp + -0.9546799*Rsp^2
R^2: 0.9976049
Amount/ISTD Amount
Area/ISTD Area

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

07/20/10

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	07191001	07191002	07191003	07191004	07191005	07191006	07191007
INJ.DATE:	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010
INJ.TIME:	16:18	16:56	17:33	18:07	18:41	19:14	19:48

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.736	6.727	6.724	6.731	6.738	6.742	6.737	6.736	3.736-9.736	6.734	0.006
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.584	13.584-19.584	+++++	+++++
179 n-Decane	8.498	8.495	8.498	8.500	8.500	8.504	8.505	8.498	5.498-11.498	8.500	0.003
180 n-Octadecane	15.876	15.874	15.876	15.878	15.879	15.882	15.883	15.876	12.876-18.876	15.878	0.003
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.531	15.531-21.531	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.634	13.634-19.634	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	13.863-19.863	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.605	17.605-23.605	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.015	14.015-20.015	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.562	14.562-20.562	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.654	6.654-12.654	+++++	+++++
168 Pentachlorobenzene	13.985	13.976	13.979	13.981	13.987	13.991	13.992	13.985	10.985-16.985	13.984	0.006
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 ______________ Date: ______________
Reviewer 2 ______________ Date: 7/22/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.269	36.269-42.269	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	3.440	3.420	3.417	3.448	3.448	3.452	3.424	3.440	0.440-6.440	3.436	0.015
* 134 Di-n-octylphthalate-d4	21.451	21.449	21.451	21.447	21.453	21.457	21.458	21.451	18.451-24.451	21.452	0.004
133 Butylatedhydroxytoluen	13.768	13.765	13.767	13.763	13.770	13.773	13.774	13.768	10.768-16.768	13.769	0.004
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	10.783	10.775	10.777	10.773	10.786	10.789	10.790	10.783	7.783-13.783	10.782	0.007
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	9.379	9.371	9.373	9.375	9.382	9.391	9.392	9.379	6.379-12.379	9.380	0.008
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	3.511	3.485	3.487	3.512	3.513	3.522	3.494	3.511	0.511-6.511	3.504	0.015
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	14.214	14.211	14.214	14.210	14.216	14.220	14.221	14.214	11.214-17.214	14.215	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.282	9.282-15.282	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	19.859	19.857	19.853	19.855	19.861	19.865	19.866	19.859	16.859-22.859	19.860	0.005
117 Butyl Diphenyl Phospha	18.238	18.235	18.232	18.234	18.240	18.244	18.245	18.238	15.238-21.238	18.238	0.005
116 Dibutyl Phenyl Phospha	16.529	16.526	16.528	16.524	16.531	16.534	16.535	16.529	13.529-19.529	16.530	0.004
115 Tributyl Phosphate	14.778	14.769	14.766	14.768	14.792	14.801	14.802	14.778	11.778-17.778	14.782	0.016
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	12.863	12.860	12.863	12.864	12.865	12.869	12.870	12.863	9.863-15.863	12.865	0.003
112 Biphenyl	12.675	12.672	12.675	12.671	12.677	12.681	12.682	12.675	9.675-15.675	12.676	0.004
111 Azobenzene (1,2-DP-Hyd	14.766	14.758	14.760	14.762	14.774	14.778	14.779	14.766	11.766-17.766	14.768	0.009
110 Tetrachloroguaiacol	15.959	15.950	15.947	15.948	15.961	15.970	15.971	15.959	12.959-18.959	15.958	0.010
109 3,4,5-Trichloroguaiaco	14.308	14.305	14.302	14.304	14.310	14.314	14.315	14.308	11.308-17.308	14.308	0.005
181 3,4,6-Trichloroguaiaco	14.431	14.429	14.425	14.427	14.434	14.437	14.444	14.431	11.431-17.431	14.432	0.006
108 4,5,6-Trichloroguaiaco	15.342	15.339	15.342	15.338	15.344	15.353	15.349	15.342	12.342-18.342	15.344	0.006
184 3,4-Dichloroguaiacol	12.757	12.754	12.751	12.753	12.759	12.763	12.764	12.757	9.757-15.757	12.757	0.005
107 4,5-Dichloroguaiacol	13.539	13.530	13.527	13.528	13.541	13.544	13.545	13.539	10.539-16.538	13.536	0.008
182 4,6-Dichloroguaiacol	13.568	13.559	13.562	13.563	13.570	13.579	13.580	13.568	10.568-16.568	13.569	0.008
185 4-Chloroguaiacol	11.653	11.650	11.653	11.648	11.655	11.658	11.660	11.653	8.653-14.653	11.654	0.004

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	106 Guaiacol	9.638	9.629	9.632	9.633	9.640	9.644	9.645	9.638	6.638-12.638	9.637	0.006
	105 1-methylnaphthalene	12.076	12.073	12.070	12.071	12.078	12.081	12.082	12.076	9.076-15.076	12.076	0.005
	151 1,2,4,5-Tetrachloroben	12.240	12.237	12.234	12.236	12.242	12.246	12.247	12.240	9.240-15.240	12.240	0.005
	152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
	153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.442	20.442-26.442	+++++	+++++
	154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.968	18.968-24.968	+++++	+++++
	155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.466	20.466-26.466	+++++	+++++
	156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.866	19.866-25.866	+++++	+++++
	157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.413	20.413-26.413	+++++	+++++
	158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.952	21.952-27.952	+++++	+++++
	159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.721	18.721-24.721	+++++	+++++
	160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.159	15.159-21.159	+++++	+++++
	161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
	162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
	163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
	164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
	165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
	166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
	167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$	2 Phenol-d5	8.216	8.208	8.210	8.212	8.224	8.228	8.229	8.216	5.216-11.216	8.218	0.009
	3 Phenol	8.234	8.225	8.228	8.229	8.242	8.251	8.252	8.234	5.234-11.234	8.237	0.011
	4 Bis(2-Chloroethyl)ethe	8.346	8.337	8.339	8.341	8.348	8.351	8.352	8.346	5.346-11.346	8.345	0.006
$	5 2-Chlorophenol-d4	8.387	8.384	8.386	8.388	8.395	8.398	8.393	8.387	5.387-11.387	8.390	0.005

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.416	8.407	8.410	8.412	8.418	8.422	8.423	8.416	5.416-11.416	8.415	0.006
	7 1,3-Dichlorobenzene	8.633	8.631	8.633	8.635	8.636	8.639	8.640	8.633	5.633-11.633	8.635	0.003
*	8 1,4-Dichlorobenzene-d4	8.698	8.689	8.692	8.694	8.694	8.698	8.699	8.698	5.698-11.698	8.695	0.004
	9 1,4-Dichlorobenzene	8.721	8.713	8.715	8.717	8.724	8.721	8.722	8.721	5.721-11.721	8.719	0.004
$	10 1,2-Dichlorobenzene-d4	8.998	8.995	8.991	8.993	9.000	8.997	8.998	8.998	5.998-11.998	8.996	0.003
	11 Benzyl alcohol	8.956	8.948	8.944	8.952	8.959	8.968	8.969	8.956	5.956-11.956	8.957	0.009
	12 1,2-Dichlorobenzene	9.015	9.012	9.015	9.017	9.017	9.021	9.022	9.015	6.015-12.015	9.017	0.003
	13 2-Methylphenol	9.174	9.159	9.162	9.164	9.176	9.179	9.181	9.174	6.174-12.174	9.171	0.009
	14 2,2'-oxybis(1-Chloropr	9.209	9.206	9.203	9.205	9.211	9.215	9.216	9.209	6.209-12.209	9.209	0.005
	15 4-Methylphenol	9.397	9.388	9.391	9.393	9.405	9.414	9.415	9.397	6.397-12.397	9.401	0.011
	16 N-Nitroso-di-n-propyla	9.426	9.418	9.414	9.422	9.434	9.444	9.445	9.426	6.426-12.426	9.429	0.012
	17 Hexachloroethane	9.509	9.506	9.508	9.504	9.511	9.508	9.509	9.509	6.509-12.509	9.508	0.002
$	18 Nitrobenzene-d5	9.620	9.612	9.614	9.616	9.622	9.626	9.627	9.620	6.620-12.620	9.620	0.006
	19 Nitrobenzene	9.650	9.641	9.644	9.645	9.652	9.661	9.662	9.650	6.650-12.650	9.651	0.008
	20 Isophorone	10.026	10.017	10.014	10.015	10.028	10.037	10.038	10.026	7.026-13.026	10.025	0.010
	21 2-Nitrophenol	10.167	10.164	10.160	10.162	10.169	10.172	10.173	10.167	7.167-13.167	10.167	0.005
	22 2,4-Dimethylphenol	10.243	10.234	10.237	10.239	10.245	10.254	10.256	10.243	7.243-13.243	10.244	0.008
	23 Bis(2-Chloroethoxy)met	10.396	10.393	10.390	10.391	10.398	10.407	10.408	10.396	7.396-13.396	10.398	0.007
	24 Benzoic acid	10.466	10.317	10.354	10.397	10.509	10.560	10.567	10.466	7.466-13.466	10.453	0.099
	25 2,4-Dichlorophenol	10.543	10.534	10.531	10.538	10.545	10.548	10.549	10.543	7.543-13.543	10.541	0.007
	26 1,2,4-Trichlorobenzene	10.684	10.675	10.677	10.679	10.680	10.683	10.684	10.684	7.684-13.684	10.680	0.004
*	27 Naphthalene-d8	10.742	10.739	10.742	10.744	10.744	10.748	10.749	10.742	7.742-13.742	10.744	0.003
	28 Naphthalene	10.778	10.769	10.771	10.773	10.780	10.783	10.784	10.778	7.778-13.778	10.777	0.006
	29 4-Chloroaniline	10.901	10.898	10.895	10.896	10.903	10.907	10.908	10.901	7.901-13.901	10.901	0.005

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	11.083	11.080	11.083	11.084	11.085	11.083	11.084	11.083	8.083-14.083	11.083	0.002
	31 4-Chloro-3-methylpheno	11.694	11.691	11.688	11.690	11.696	11.700	11.701	11.694	8.694-14.694	11.694	0.005
	32 2-Methylnaphthalene	11.900	11.897	11.893	11.895	11.902	11.905	11.906	11.900	8.900-14.900	11.900	0.005
	33 Hexachlorocyclopentadi	12.281	12.273	12.275	12.277	12.278	12.281	12.282	12.281	9.281-15.281	12.278	0.004
	34 2,4,6-Trichlorophenol	12.405	12.402	12.404	12.400	12.407	12.410	12.411	12.405	9.405-15.405	12.406	0.004
	35 2,4,5-Trichlorophenol	12.463	12.461	12.457	12.459	12.466	12.469	12.470	12.463	9.463-15.463	12.464	0.005
$	36 2-Fluorobiphenyl	12.540	12.531	12.534	12.535	12.536	12.540	12.541	12.540	9.540-15.540	12.537	0.004
	37 2-Chloronaphthalene	12.687	12.684	12.686	12.682	12.689	12.698	12.699	12.687	9.687-15.687	12.689	0.007
	38 2-Nitroaniline	12.910	12.901	12.904	12.906	12.912	12.921	12.923	12.910	9.910-15.910	12.911	0.008
	39 Dimethylphthalate	13.268	13.260	13.262	13.264	13.276	13.286	13.287	13.268	10.268-16.268	13.272	0.011
	40 Acenaphthylene	13.374	13.371	13.374	13.370	13.376	13.380	13.381	13.374	10.374-16.374	13.375	0.004
	41 2,6-Dinitrotoluene	13.374	13.365	13.362	13.364	13.376	13.380	13.387	13.374	10.374-16.374	13.372	0.009
*	42 Acenaphthene-d10	13.627	13.624	13.626	13.628	13.629	13.632	13.633	13.627	10.627-16.627	13.628	0.003
	43 3-Nitroaniline	13.591	13.583	13.579	13.587	13.599	13.609	13.610	13.591	10.591-16.591	13.594	0.012
	44 Acenaphthene	13.679	13.677	13.673	13.675	13.682	13.691	13.686	13.679	10.679-16.679	13.680	0.006
	45 2,4-Dinitrophenol	13.756	13.741	13.744	13.751	13.764	13.779	13.780	13.756	10.756-16.756	13.759	0.016
	46 Dibenzofuran	13.944	13.935	13.938	13.939	13.946	13.949	13.951	13.944	10.944-16.944	13.943	0.006
	47 4-Nitrophenol	13.867	13.859	13.855	13.857	13.870	13.879	13.880	13.867	10.867-16.867	13.867	0.010
	48 2,4-Dinitrotoluene	14.008	14.000	13.996	13.998	14.011	14.020	14.021	14.008	11.008-17.008	14.008	0.010
	49 Fluorene	14.508	14.499	14.502	14.497	14.510	14.513	14.514	14.508	11.508-17.508	14.506	0.007
	50 Diethylphthalate	14.431	14.417	14.419	14.421	14.434	14.437	14.438	14.431	11.431-17.431	14.428	0.009
	51 4-Chlorophenyl-phenyle	14.514	14.505	14.508	14.509	14.516	14.519	14.514	14.514	11.514-17.514	14.512	0.005
	52 4-Nitroaniline	14.596	14.581	14.584	14.586	14.610	14.625	14.626	14.596	11.596-17.596	14.601	0.019
	53 4,6-Dinitro-2-methylph	14.672	14.664	14.660	14.662	14.680	14.695	14.697	14.672	11.672-17.672	14.676	0.015

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	14.713	14.711	14.707	14.709	14.721	14.731	14.732	14.713	11.713-17.713	14.718	0.010
$	55 2,4,6-Tribromophenol	14.931	14.922	14.925	14.920	14.933	14.936	14.937	14.931	11.931-17.931	14.929	0.007
	56 4-Bromophenyl-phenylet	15.301	15.298	15.301	15.296	15.303	15.306	15.308	15.301	12.301-18.301	15.302	0.004
	57 Hexachlorobenzene	15.542	15.533	15.536	15.537	15.544	15.547	15.548	15.542	12.542-18.542	15.541	0.006
	58 Pentachlorophenol	15.830	15.827	15.823	15.825	15.832	15.841	15.842	15.830	12.830-18.830	15.831	0.007
*	59 Phenanthrene-d10	16.029	16.021	16.023	16.025	16.031	16.035	16.036	16.029	13.029-19.029	16.029	0.006
	60 Phenanthrene	16.064	16.056	16.058	16.060	16.073	16.076	16.077	16.064	13.064-19.064	16.066	0.009
	61 Anthracene	16.141	16.132	16.135	16.136	16.143	16.152	16.153	16.141	13.141-19.141	16.142	0.008
	62 Carbazole	16.411	16.408	16.405	16.407	16.413	16.423	16.424	16.411	13.411-19.411	16.413	0.007
	63 Di-n-butylphthalate	17.093	17.084	17.086	17.088	17.095	17.092	17.093	17.093	14.092-20.093	17.090	0.004
	64 Fluoranthene	18.021	18.012	18.015	18.016	18.023	18.026	18.027	18.021	15.021-21.021	18.020	0.006
	65 Pyrene	18.385	18.376	18.379	18.380	18.387	18.396	18.397	18.385	15.385-21.385	18.386	0.008
$	66 Terphenyl-d14	18.667	18.664	18.667	18.662	18.669	18.672	18.674	18.667	15.667-21.667	18.668	0.004
	67 Butylbenzylphthalate	19.536	19.528	19.530	19.532	19.538	19.542	19.543	19.536	16.536-22.536	19.536	0.006
	68 Benzo(a)anthracene	20.353	20.344	20.347	20.348	20.361	20.364	20.365	20.353	17.353-23.353	20.355	0.009
*	69 Chrysene-d12	20.382	20.374	20.376	20.378	20.384	20.388	20.389	20.382	17.382-23.382	20.381	0.006
	70 3,3'-Dichlorobenzidine	20.341	20.338	20.335	20.337	20.343	20.347	20.348	20.341	17.341-23.341	20.341	0.005
	71 Chrysene	20.423	20.415	20.411	20.413	20.425	20.435	20.436	20.423	17.423-23.423	20.423	0.010
	72 bis(2-Ethylhexyl)phtha	20.517	20.515	20.511	20.513	20.514	20.517	20.518	20.517	17.517-23.517	20.515	0.003
	73 Di-n-octylphthalate	21.463	21.454	21.457	21.459	21.465	21.469	21.470	21.463	18.463-24.463	21.462	0.006
	74 Benzo(b)fluoranthene	22.021	22.012	22.015	22.017	22.029	22.038	22.040	22.021	19.021-25.021	22.025	0.011
	75 Benzo(k)fluoranthene	22.056	22.048	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.058	0.013
	187 Total Benzofluoranthen	22.056	22.012	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.053	0.022
	76 Benzo(a)pyrene	22.491	22.482	22.485	22.481	22.499	22.508	22.510	22.491	19.491-25.491	22.494	0.012

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	22.579	22.571	22.573	22.575	22.575	22.579	22.580	22.579	19.579-25.579	22.576	0.004
	78 Indeno(1,2,3-cd)pyrene	24.424	24.403	24.406	24.413	24.438	24.453	24.454	24.424	21.424-27.424	24.427	0.021
	79 Dibenzo(a,h)anthracene	24.447	24.421	24.429	24.431	24.455	24.471	24.477	24.447	21.447-27.447	24.447	0.022
	80 Benzo(g,h,i)perylene	24.958	24.926	24.929	24.936	24.972	24.987	24.989	24.958	21.958-27.958	24.957	0.027
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.280	4.260	4.257	4.276	4.288	4.298	4.281	4.280	1.280-7.280	4.277	0.015
	91 Aniline	8.246	8.237	8.240	8.241	8.248	8.251	8.252	8.246	5.246-11.246	8.245	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	18.250	18.247	18.244	18.245	18.252	18.255	18.251	18.250	15.250-21.250	18.249	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	18.925	18.923	18.925	18.921	18.927	18.931	18.932	18.925	15.925-21.925	18.926	0.004
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.125	28.125-34.125	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.475	21.475-27.475	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.481	21.481-27.481	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.251	4.272	4.245	4.258	4.253	4.257	4.240	4.251	1.251-7.251	4.254	0.010

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

ARI Job No.: IC25 Method: SW846100719.m Instrument: nt4.i Date: 19-JUL-2010

AZ 07/21/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1618	07191001.d	IC250719	IC250719	1	NO MANUAL INTEGRATION
1656	07191002.d	IC010719	IC010719	1	Benzoic acid, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Benzidine, Pyridine, Total Benzofluoranthenes, 1,2-Dichlorobenzene-d4,
1733	07191003.d	IC050719	IC050719	1	NO MANUAL INTEGRATION
1807	07191004.d	IC100719	IC100719	1	NO MANUAL INTEGRATION
1841	07191005.d	IC400719	IC400719	1	NO MANUAL INTEGRATION
1914	07191006.d	IC600719	IC600719	1	Benzoic acid,
1948	07191007.d	IC800719	IC800719	1	Benzoic acid, 4-Nitrophenol,
2021	07191008.d	ICV0719	ICV0719	1	NO MANUAL INTEGRATION

RC91:00315

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 7/19/10 (19) Analysis: 8270 Analyst: JB

GC Program: RBA Column No: 172294 Column Type: ZB-5MS

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1353

Calibration File: 071910D Curve Date: ~~07/16/10~~ 7/19/10 JB

IS/SS	Ical/Ccal	LCS/ICV
1627-1	17473, 1733-1	1761-3, 1713-1
	~~1735-1~~, ~~1736-1~~	~~1721-2~~, 1720-1
	~~15019~~, 1740-2	~~15019~~, 1740-2

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

	Time	Filename	LabID	ClientId	DF													
1	1618	07191001.d	IC250719	IC250719	1	8.70	356478	10.74	1293412	13.63	785897	16.03	1313990	20.38	1155293	22.58	1146289	21.45	1825297
2	1656	07191002.d	IC010719	IC010719	1	8.69	290756	10.74	1025728	13.62	609037	16.02	1031072	20.37	888098	22.57	896867	21.45	1405493
3	1733	07191003.d	IC050719	IC050719	1	8.69	280196	10.74	1016171	13.63	598563	16.02	1007780	20.38	879562	22.57	872109	21.45	1375669
4	1807	07191004.d	IC100719	IC100719	1	8.69	386803	10.74	1330824	13.63	805701	16.02	1335679	20.38	1209826	22.57	1193862	21.45	1905755
5	1841	07191005.d	IC400719	IC400719	1	8.69	381018	10.74	1340154	13.63	839318	16.03	1371590	20.38	1264495	22.58	1213809	21.45	1902533
6	1914	07191006.d	IC600719	IC600719	1	8.70	397320	10.75	1461536	13.63	877821	16.03	1448224	20.39	1294779	22.58	1277873	21.46	1930038
7	1948	07191007.d	IC800719	IC800719	1	8.70	300879	10.75	1123708	13.63	665405	16.04	1124245	20.39	968321	22.58	976271	21.46	1492891
8	2021	07191008.d	ICV0719	ICV0719	1	8.69	289791	10.74	1041288	13.62	632100	16.03	1057026	20.38	945392	22.57	894258	21.45	1458222

JB 07/21/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

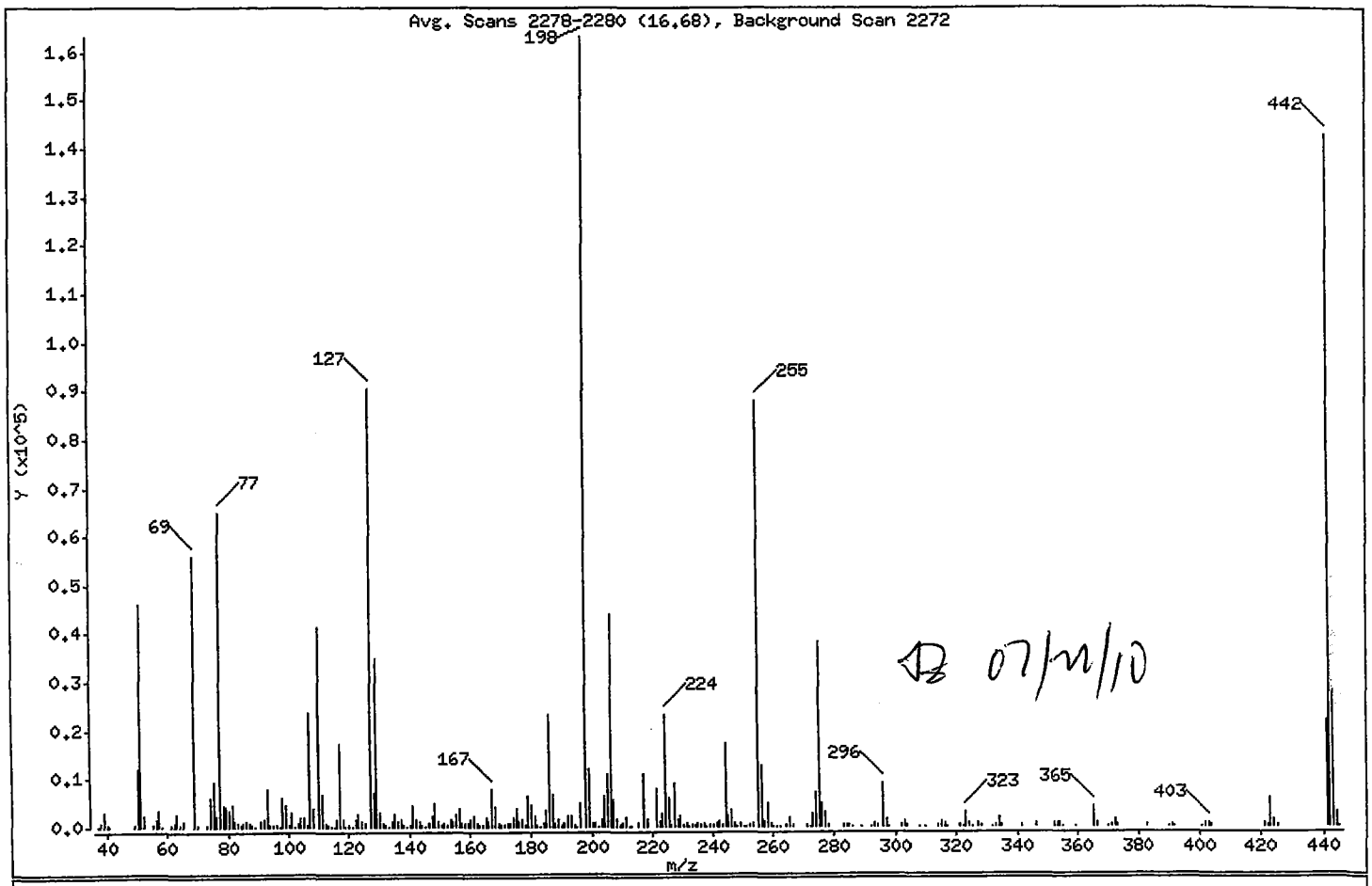
Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.18
70	Less than 2.00% of mass 69	0.18 (0.54)
127	10.00 - 80.00% of mass 198	55.45
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 60.00% of mass 198	23.41
365	Greater than 1.00% of mass 198	2.50
441	0.01 - 24.00% of mass 442	13.47 (15.37)
442	50.00 - 200.00% of mass 198	87.66
443	15.00 - 24.00% of mass 442	17.32 (19.76)

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07191001.d

Spectrum: Avg. Scans 2278-2280 (16.68), Background Scan 2272

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	124.00	1068	194.00	516	274.00	6952
38.00	626	125.00	928	195.00	74	275.00	38240
39.00	3155	127.00	90568	196.00	4842	276.00	4902
40.00	240	128.00	7240	198.00	163328	277.00	3117
41.00	133	129.00	34976	199.00	11863	278.00	490
49.00	341	130.00	3136	200.00	903	283.00	378
50.00	12091	131.00	637	201.00	766	284.00	198
51.00	46216	132.00	342	202.00	187	285.00	490
52.00	2279	133.00	153	203.00	1329	286.00	65
55.00	297	134.00	1129	204.00	6388	289.00	110
56.00	1438	135.00	2602	205.00	10845	292.00	155
57.00	3212	136.00	1014	206.00	44056	293.00	700
58.00	135	137.00	1442	207.00	5697	294.00	220
61.00	549	138.00	343	208.00	1620	296.00	9048
62.00	790	139.00	162	209.00	354	297.00	1458
63.00	2458	140.00	293	210.00	768	298.00	53
64.00	336	141.00	4488	211.00	2062	302.00	218
65.00	1093	142.00	1318	212.00	166	303.00	1189
69.00	55832	143.00	949	213.00	136	304.00	343
70.00	301	144.00	361	215.00	571	308.00	99
73.00	194	145.00	149	217.00	11029	310.00	86
74.00	5838	146.00	933	218.00	1504	314.00	446
75.00	9200	147.00	2243	221.00	7732	315.00	1132
76.00	2411	148.00	4838	222.00	1169	316.00	637
77.00	64832	149.00	1154	223.00	2692	317.00	83
78.00	4584	150.00	297	224.00	23456	321.00	312
79.00	4287	151.00	712	225.00	6043	322.00	133
80.00	3333	152.00	458	226.00	467	323.00	3131
81.00	4634	153.00	1366	227.00	9060	324.00	671
82.00	1207	154.00	1075	228.00	1570	325.00	51
83.00	927	155.00	2457	229.00	2131	327.00	645
84.00	269	156.00	3710	230.00	278	328.00	320
85.00	789	157.00	774	231.00	800	332.00	166
86.00	948	158.00	741	232.00	137	333.00	387
87.00	602	159.00	635	233.00	218	334.00	2050

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07191001.d
Spectrum: Avg. Scans 2278-2280 (16.68), Background Scan 2272
Location of Maximum: 198.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	274	160.00	1414	234.00	561	335.00	456
89.00	140	161.00	2227	235.00	806	341.00	328
91.00	1126	162.00	641	236.00	506	346.00	618
92.00	1437	163.00	254	237.00	841	352.00	919
93.00	7814	164.00	284	238.00	65	353.00	651
94.00	392	165.00	1814	239.00	363	354.00	938
95.00	194	166.00	1157	240.00	376	355.00	90
96.00	431	167.00	7700	241.00	578	359.00	57
97.00	63	168.00	4026	242.00	1185	365.00	4085
98.00	5863	169.00	685	243.00	462	366.00	751
99.00	4521	170.00	323	244.00	17144	370.00	62
100.00	429	171.00	443	245.00	2104	371.00	244
101.00	2891	172.00	734	246.00	3475	372.00	1497
102.00	148	173.00	921	247.00	804	373.00	472
103.00	837	174.00	1805	248.00	141	383.00	429
104.00	1882	175.00	3722	249.00	685	390.00	161
105.00	1824	176.00	1027	250.00	67	391.00	235
106.00	256	177.00	1400	251.00	147	392.00	78
107.00	23808	178.00	437	252.00	188	401.00	53
108.00	3656	179.00	6417	253.00	579	402.00	748
110.00	41184	180.00	4403	255.00	87864	403.00	833
111.00	6615	181.00	2289	256.00	12866	404.00	311
112.00	697	182.00	438	257.00	1093	421.00	791
113.00	280	183.00	173	258.00	4775	422.00	405
114.00	62	184.00	574	259.00	669	423.00	5987
115.00	172	185.00	3393	260.00	130	424.00	1326
116.00	1343	186.00	23320	261.00	146	425.00	201
117.00	17168	187.00	6795	262.00	58	441.00	22008
118.00	1429	188.00	689	264.00	215	442.00	143168
119.00	139	189.00	1412	265.00	1846	443.00	28288
120.00	356	190.00	292	266.00	390	444.00	2849
121.00	75	191.00	714	271.00	396	445.00	152
122.00	1440	192.00	2176	272.00	150		
123.00	2633	193.00	2306	273.00	2780		

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

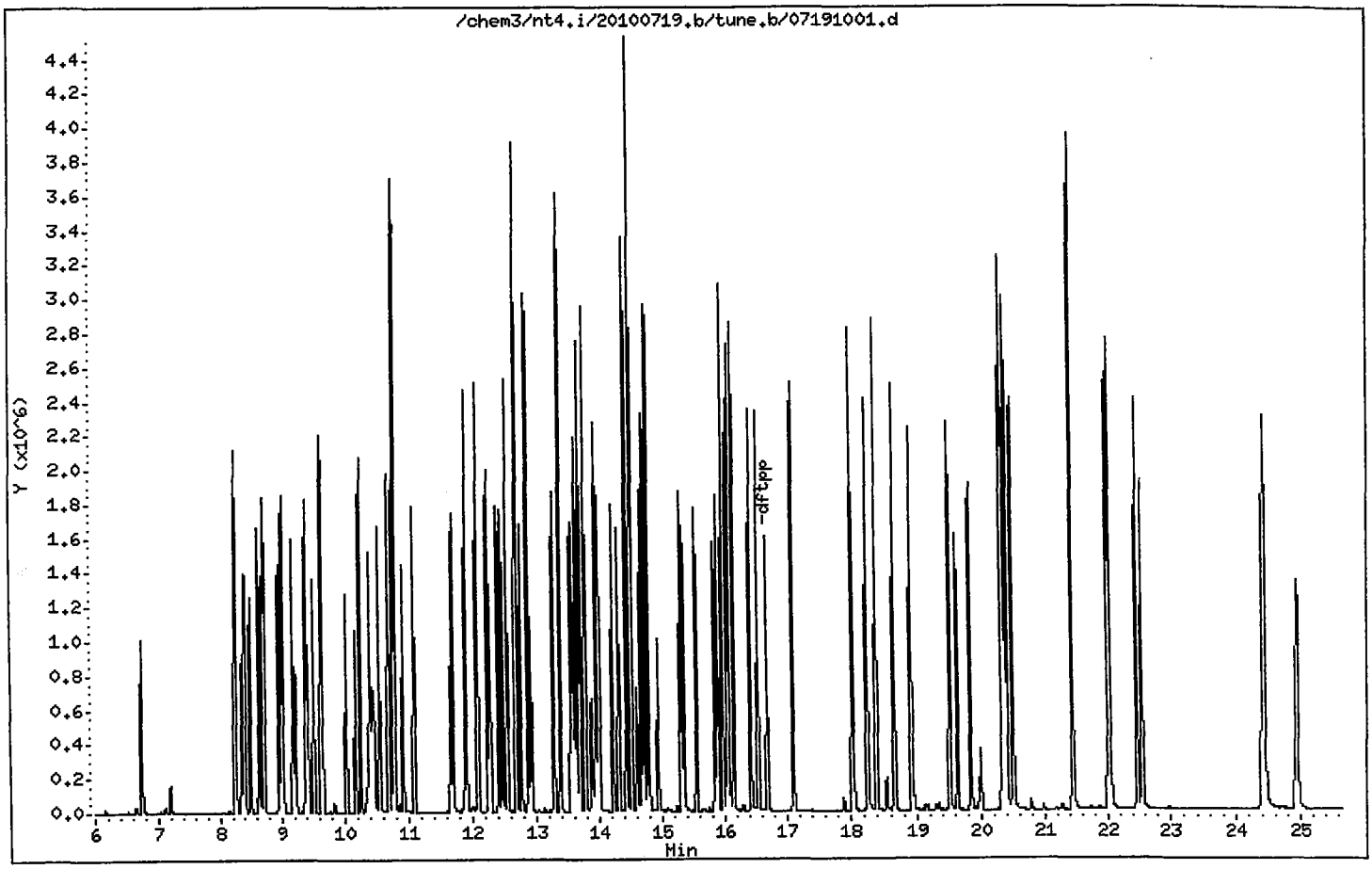
Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100719.b/ddt.b/07191001.d ARI ID: IC250719
Method: /chem3/nt4.i/20100719.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 19-JUL-2010 16:18 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.830	246760
Benzidine	13.756	317048
4,4'-DDE	----	----
4,4'-DDD	19.172	9246
4,4'-DDT	19.654	449440

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 9246) * 100}{(0 + 9246 + 449440)}$$

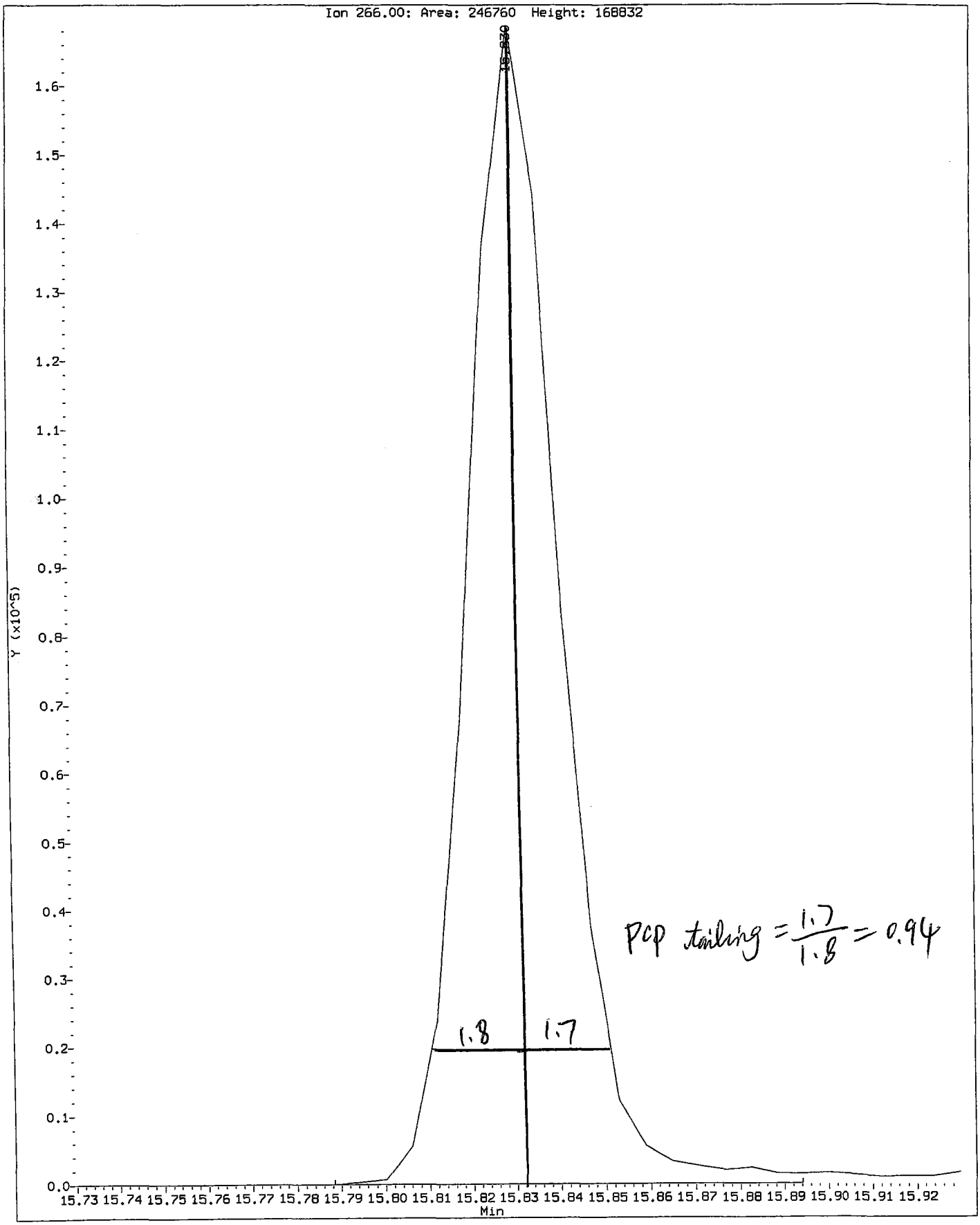
DDT Percent Breakdown = 2.0 %

OK

AE 07/21/10

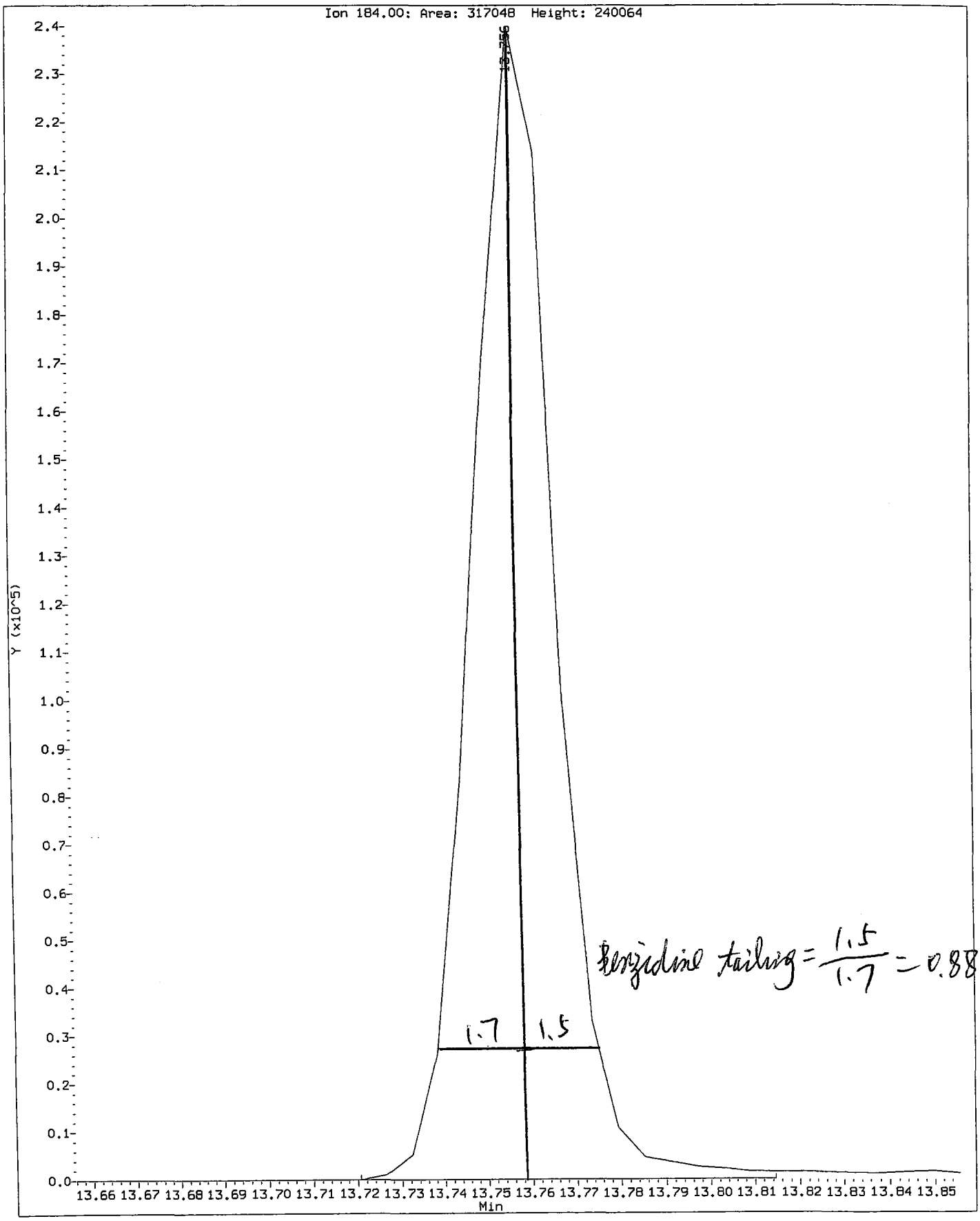
Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191002.d
Lab Smp Id: IC010719 Client Smp ID: IC010719
Inj Date : 19-JUL-2010 16:56
Operator : JZ Inst ID: nt4.i
Smp Info : IC010719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:56 Cal File: 07191002.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.727	6.737	(0.774)	16929	1.00000	1.000
$	2	Phenol-d5	99	8.208	8.229	(0.945)	15849	1.00000	1.000
	3	Phenol	94	8.225	8.252	(0.947)	22145	1.00000	1.000
$	5	2-Chlorophenol-d4	132	8.384	8.393	(0.965)	17674	1.00000	1.000
	4	Bis(2-Chloroethyl)ether	93	8.337	8.352	(0.959)	16775	1.00000	1.000
	6	2-Chlorophenol	128	8.407	8.423	(0.968)	20019	1.00000	1.000
	7	1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	24857	1.00000	1.000
*	8	1,4-Dichlorobenzene-d4	152	8.689	8.699	(1.000)	290756	20.0000	
	9	1,4-Dichlorobenzene	146	8.713	8.722	(1.003)	24688	1.00000	1.000
$	10	1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	14140	1.00000	1.000(M)
	12	1,2-Dichlorobenzene	146	9.012	9.022	(1.037)	22982	1.00000	1.000
	14	2,2'-oxybis(1-Chloropropane)	45	9.206	9.216	(1.059)	16487	1.00000	1.000
	13	2-Methylphenol	108	9.159	9.181	(1.054)	14573	1.00000	1.000
	17	Hexachloroethane	117	9.506	9.509	(1.094)	8597	1.00000	1.000
	16	N-Nitroso-di-*n*-propylamine	70	9.418	9.445	(1.084)	11445	1.00000	1.000
	15	4-Methylphenol	108	9.388	9.415	(1.080)	15650	1.00000	1.000
$	18	Nitrobenzene-d5	82	9.612	9.627	(0.895)	16718	1.00000	1.000
	19	Nitrobenzene	77	9.641	9.662	(0.898)	17688	1.00000	1.000
	20	Isophorone	82	10.017	10.038	(0.933)	29376	1.00000	1.000
	21	2-Nitrophenol	139	10.164	10.173	(0.946)	8306	1.00000	1.000
	22	2,4-Dimethylphenol	107	10.234	10.256	(0.953)	17478	1.00000	1.000
	23	Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	20749	1.00000	1.000
	25	2,4-Dichlorophenol	162	10.534	10.549	(0.981)	13002	1.00000	1.000
	26	1,2,4-Trichlorobenzene	180	10.675	10.684	(0.994)	18864	1.00000	1.000
*	27	Naphthalene-d8	136	10.739	10.749	(1.000)	1025728	20.0000	
	28	Naphthalene	128	10.769	10.784	(1.003)	60556	1.00000	1.000
	29	4-Chloroaniline	127	10.898	10.908	(1.015)	20131	1.00000	1.000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	30 Hexachlorobutadiene	225	11.080	11.084	(1.032)	11152	1.00000	1.000
	31 4-Chloro-3-methylphenol	107	11.691	11.701	(1.089)	10459	1.00000	1.000
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	38275	1.00000	1.000
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	9385	1.00000	1.000
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	7560	1.00000	1.000
$	36 2-Fluorobiphenyl	172	12.531	12.541	(0.920)	44578	1.00000	1.000
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	37915	1.00000	1.000
	38 2-Nitroaniline	65	12.901	12.923	(0.947)	4299	1.00000	1.000
	39 Dimethylphthalate	163	13.260	13.287	(0.973)	44202	1.00000	1.000
	40 Acenaphthylene	152	13.371	13.381	(0.981)	59340	1.00000	1.000
	41 2,6-Dinitrotoluene	165	13.365	13.387	(0.981)	7415	1.00000	1.000
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	609037	20.0000	
	43 3-Nitroaniline	138	13.583	13.610	(0.997)	8127	1.00000	1.000 (M)
	44 Acenaphthene	153	13.677	13.686	(1.004)	37912	1.00000	1.000
	46 Dibenzofuran	168	13.935	13.951	(1.023)	50118	1.00000	1.000
	48 2,4-Dinitrotoluene	165	14.000	14.021	(1.028)	8769	1.00000	1.000
	50 Diethylphthalate	149	14.417	14.438	(1.058)	47903	1.00000	1.000
	49 Fluorene	166	14.499	14.514	(1.064)	44002	1.00000	1.000
	51 4-Chlorophenyl-phenylether	204	14.505	14.514	(1.065)	21156	1.00000	1.000
	52 4-Nitroaniline	138	14.581	14.626	(1.070)	8559	1.00000	1.000 (M)
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	30879	1.00000	1.000
$	55 2,4,6-Tribromophenol	330	14.922	14.937	(1.095)	3444	1.00000	1.000
	56 4-Bromophenyl-phenylether	248	15.298	15.308	(0.955)	10876	1.00000	1.000
	57 Hexachlorobenzene	284	15.533	15.548	(0.970)	12460	1.00000	1.000
*	59 Phenanthrene-d10	188	16.021	16.036	(1.000)	1031072	20.0000	
	60 Phenanthrene	178	16.056	16.077	(1.002)	65449	1.00000	1.000
	61 Anthracene	178	16.132	16.153	(1.007)	65409	1.00000	1.000
	62 Carbazole	167	16.408	16.424	(1.024)	59018	1.00000	1.000
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	71682	1.00000	1.000
	64 Fluoranthene	202	18.012	18.027	(1.124)	63563	1.00000	1.000
	65 Pyrene	202	18.376	18.397	(0.902)	68781	1.00000	1.000
$	66 Terphenyl-d14	244	18.664	18.674	(0.916)	41564	1.00000	1.000
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	28078	1.00000	1.000
	68 Benzo(a)anthracene	228	20.344	20.365	(0.999)	62157	1.00000	1.000
*	69 Chrysene-d12	240	20.374	20.389	(1.000)	888098	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.338	20.348	(0.998)	16378	1.00000	1.000
	71 Chrysene	228	20.415	20.436	(1.002)	61441	1.00000	1.000
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	37359	1.00000	1.000
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1405493	20.0000	
	73 Di-n-octylphthalate	149	21.454	21.470	(1.000)	88965	1.00000	1.000
	74 Benzo(b)fluoranthene	252	22.012	22.040	(0.975)	62957	1.00000	1.000
	75 Benzo(k)fluoranthene	252	22.048	22.075	(0.977)	68867	1.00000	1.000
	187 Total Benzofluoranthenes	252	22.012	22.075	(0.975)	123956	2.00000	2.000 (M)
	76 Benzo(a)pyrene	252	22.482	22.510	(0.996)	55355	1.00000	1.000
*	77 Perylene-d12	264	22.571	22.580	(1.000)	896867	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.403	24.454	(1.081)	49743	1.00000	1.000
	79 Dibenzo(a,h)anthracene	278	24.421	24.477	(1.082)	36717	1.00000	1.000 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
80	Benzo(g,h,i)perylene	276	24.926	24.989	(1.104)	42342	1.00000	1.000 (M)
90	N-Nitrosodimethylamine	74	4.260	4.281	(0.490)	9418	1.00000	1.000
103	Pyridine	79	4.272	4.240	(0.492)	13123	1.00000	1.000 (M)
91	Aniline	93	8.237	8.252	(0.948)	24205	1.00000	1.000
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	37878	1.00000	1.000
93	Benzidine	184	18.247	18.251	(0.896)	18817	1.00000	1.000 (M)
111	Azobenzene (1,2-DP-Hydrazine)	77	14.758	14.779	(1.083)	34717	1.00000	1.000
143	1,4-Dioxane	88	3.485	3.494	(0.401)	6166	1.00000	
$ 137	d8-1,4-Dioxane	96	3.420	3.424	(0.394)	6252	1.00000	
151	1,2,4,5-Tetrachlorobenzene	216	12.237	12.247	(0.898)	18497	1.00000	1.000
120	2,3,4,6-Tetrachlorophenol	232	14.211	14.221	(1.043)	7771	1.00000	1.000
144	alpha-Terpineol	59	10.775	10.790	(1.003)	10428	1.00000	1.000
98	Retene	219	18.923	18.932	(0.929)	20377	1.00000	1.000
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	36457	1.00000	1.000
115	Tributyl Phosphate	99	14.769	14.802	(0.922)	42406	1.00000	1.000
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.032)	32552	1.00000	1.000
117	Butyl Diphenyl Phosphate	94	18.235	18.245	(0.895)	9172	1.00000	1.000
118	Triphenyl Phosphate	326	19.857	19.866	(0.975)	9524	1.00000	1.000
123	Acetophenone	105	9.371	9.392	(0.873)	24162	1.00000	1.000
179	n-Decane	57	8.495	8.505	(0.978)	13401	1.00000	1.000
180	n-Octadecane	57	15.874	15.883	(0.991)	15597	1.00000	1.000
168	Pentachlorobenzene	250	13.976	13.992	(1.026)	14879	1.00000	1.000
113	Diphenyl Oxide	170	12.860	12.870	(0.944)	38962	1.00000	1.000
112	Biphenyl	154	12.672	12.682	(0.930)	44311	1.00000	1.000
110	Tetrachloroguaiacol	247	15.950	15.971	(0.996)	11956	2.00000	2.000
109	3,4,5-Trichloroguaiacol	213	14.305	14.315	(0.893)	5696	1.00000	1.000
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.901)	6639	1.00000	1.000
108	4,5,6-Trichloroguaiacol	213	15.339	15.349	(0.957)	5830	1.00000	1.000
184	3,4-Dichloroguaiacol	192	12.754	12.764	(0.936)	5700	1.00000	1.000
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	7611	1.00000	1.000
182	4,6-Dichloroguaiacol	192	13.559	13.580	(0.995)	8112	1.00000	1.000
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	3842	0.50000	0.5000
106	Guaiacol	124	9.629	9.645	(1.108)	16777	1.00000	1.000

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191002.d
Lab Smp Id: IC010719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC010719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	290756	-18.44
27 Naphthalene-d8	1293412	646706	2586824	1025728	-20.70
42 Acenaphthene-d10	785897	392948	1571794	609037	-22.50
59 Phenanthrene-d10	1313990	656995	2627980	1031072	-21.53
69 Chrysene-d12	1155293	577646	2310586	888098	-23.13
134 Di-n-octylphthala	1825297	912648	3650594	1405493	-23.00
77 Perylene-d12	1146289	573144	2292578	896867	-21.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.10
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.03
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.05
69 Chrysene-d12	20.38	19.88	20.88	20.37	-0.04
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.04

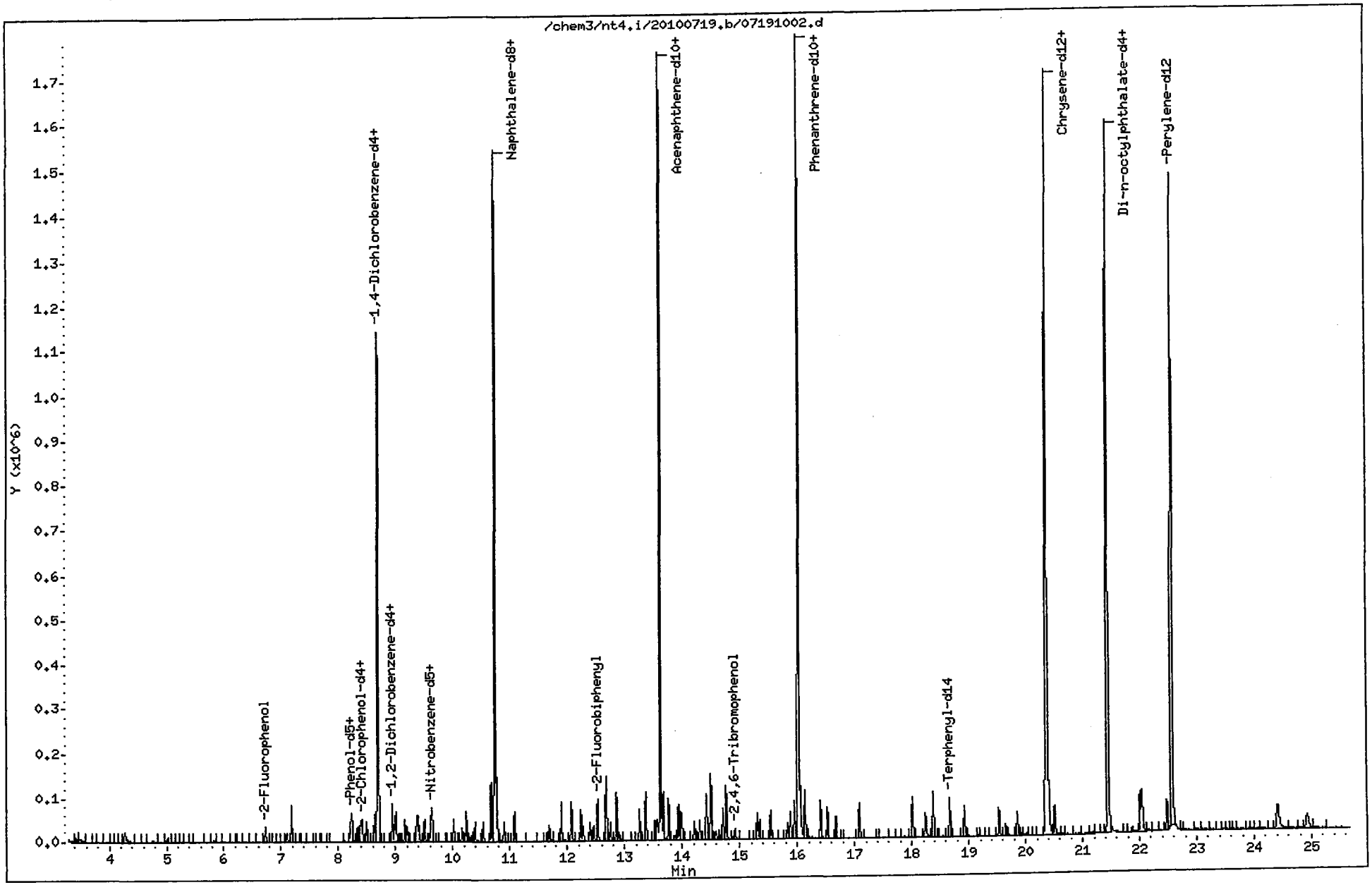
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191002.d
Date : 19-JUL-2010 16:56
Client ID: IC010719
Sample Info: IC010719

Instrument: nt4.i

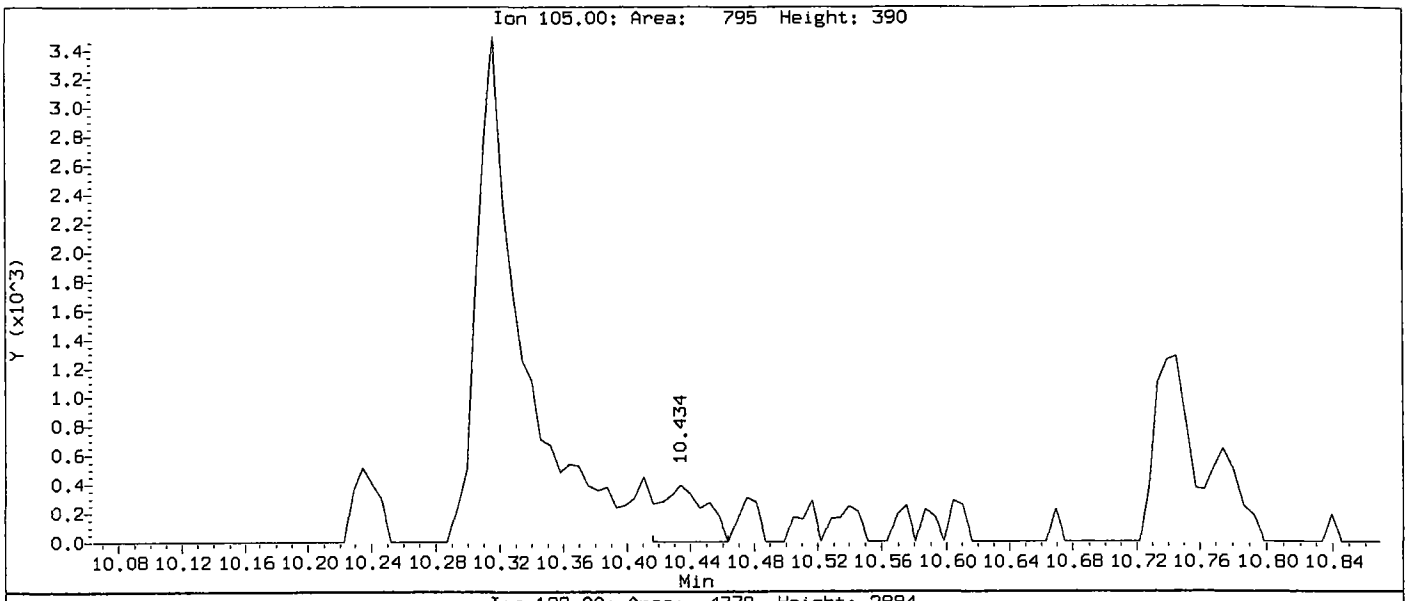
Operator: JZ
Column diameter: 0.32

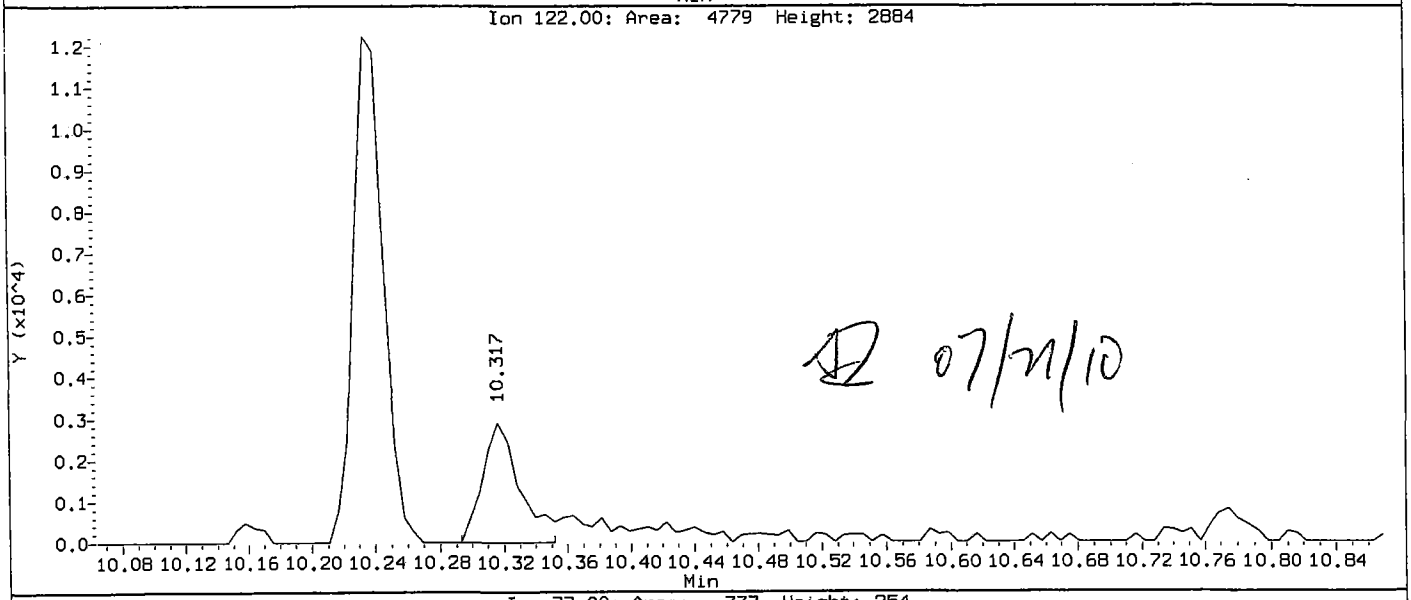
Column phase: ZB-5msi



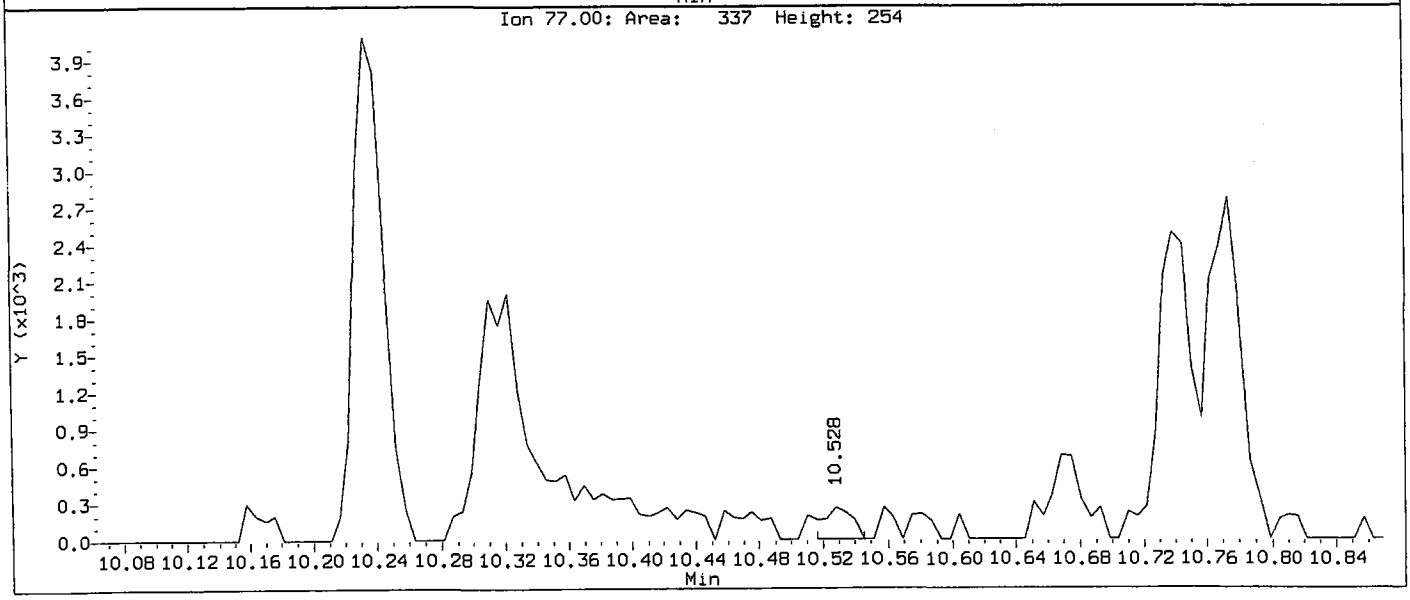
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzoic acid
CAS Number: 65-85-0



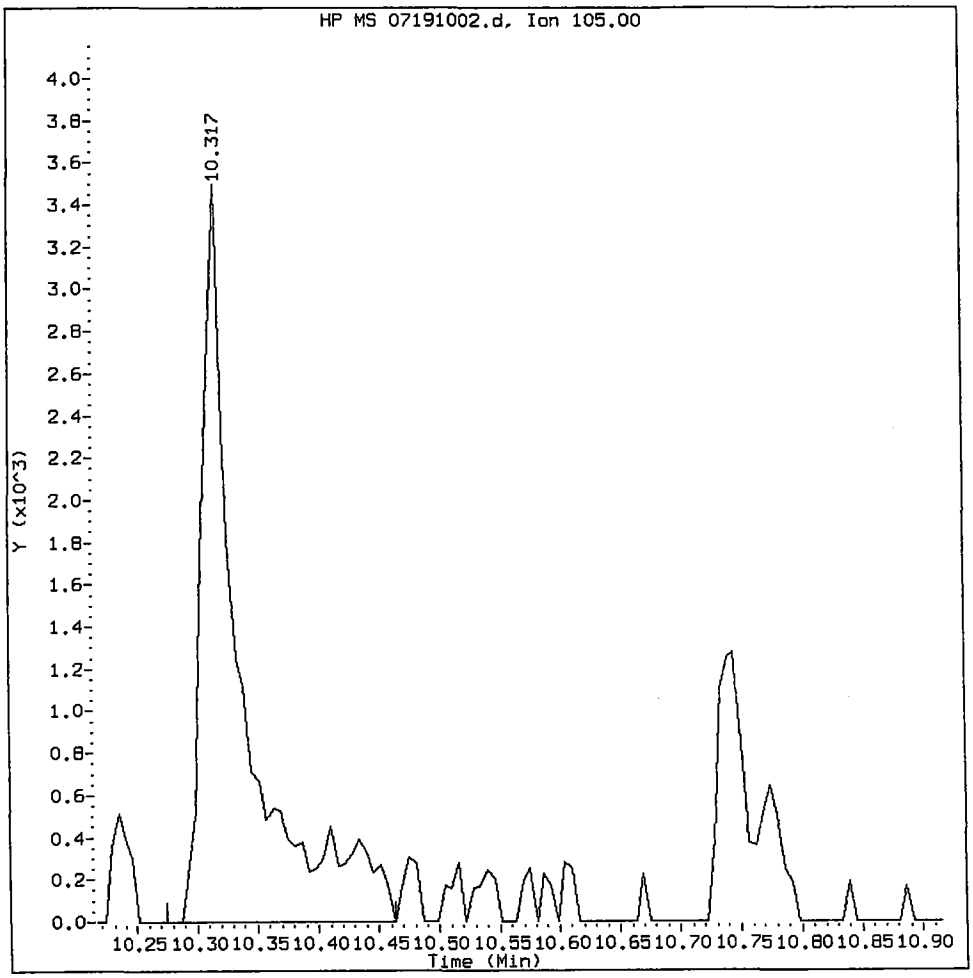


07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzoic acid Amount: 0.00 Area: 8004



MANUAL INTEGRATION for Benzoic acid

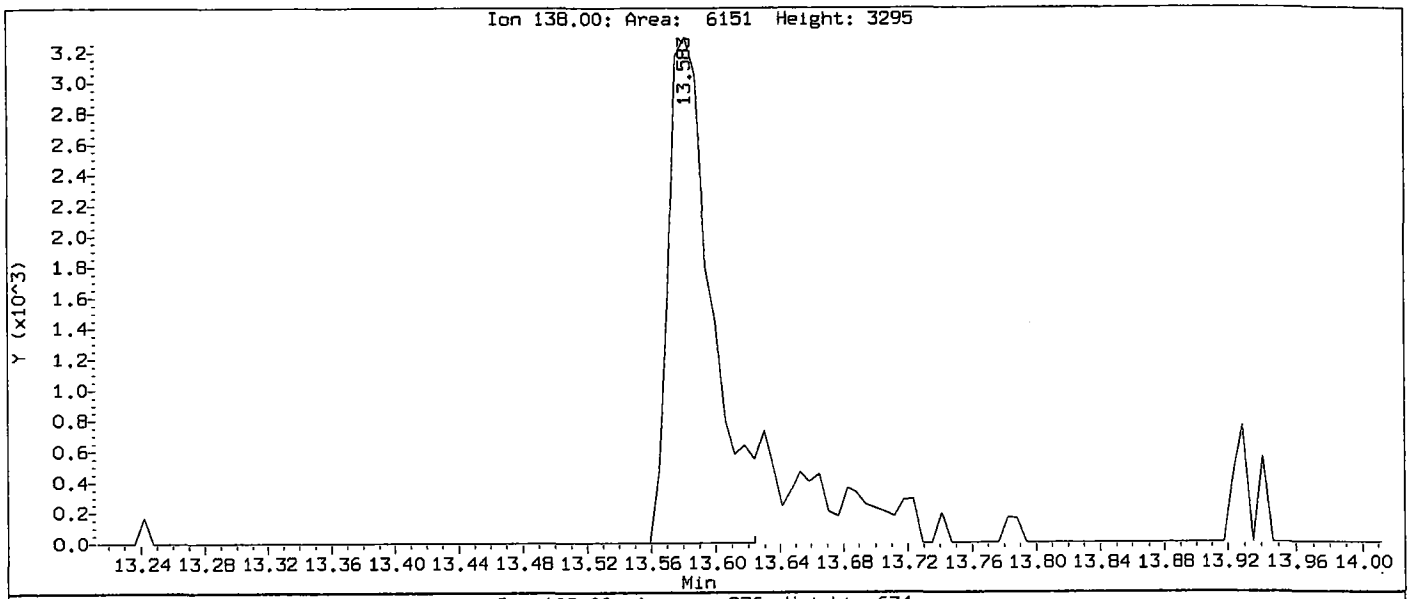
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

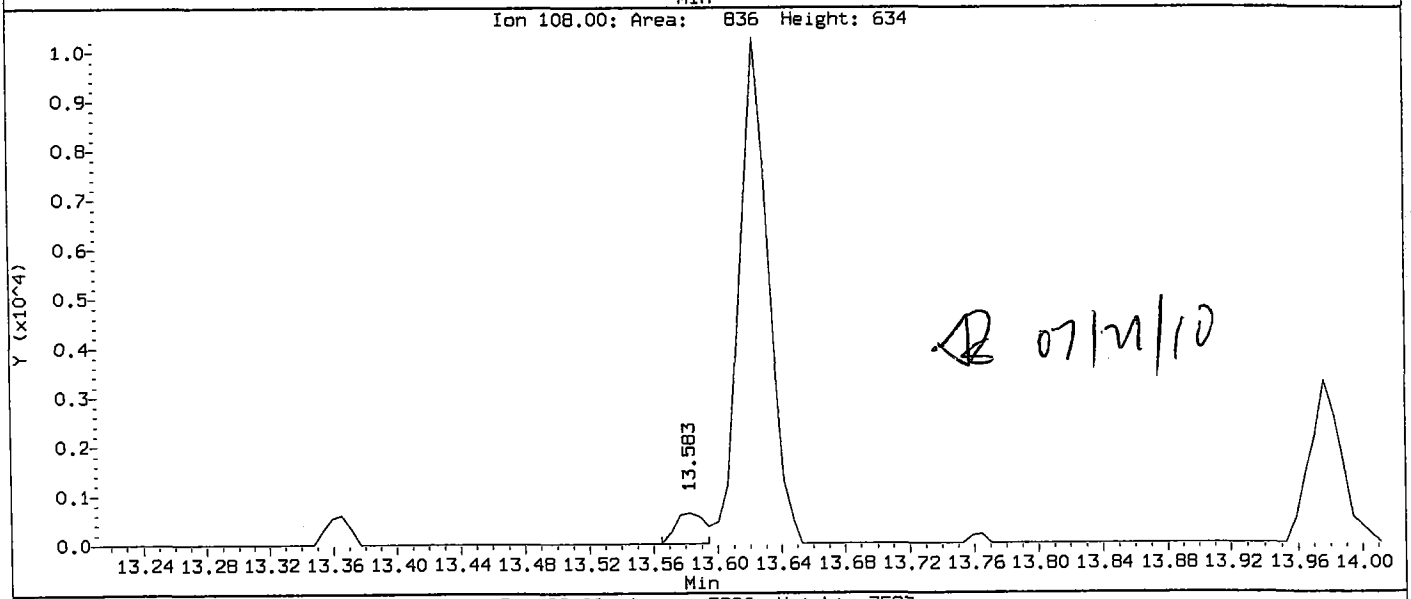
5. Other _____

Analyst: AZ Date: 07/21/10

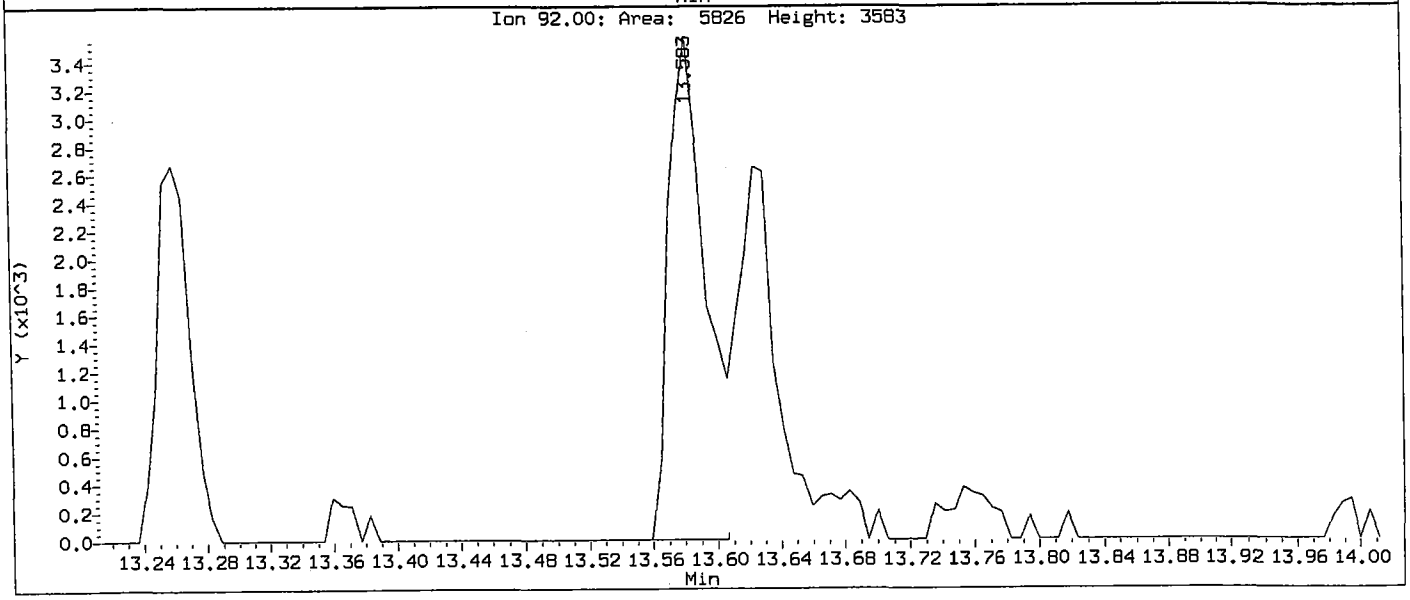
Data File: /chem3/nt4.i/20100719B.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: ICO10719

Compound: 3-Nitroaniline
CAS Number: 99-09-2



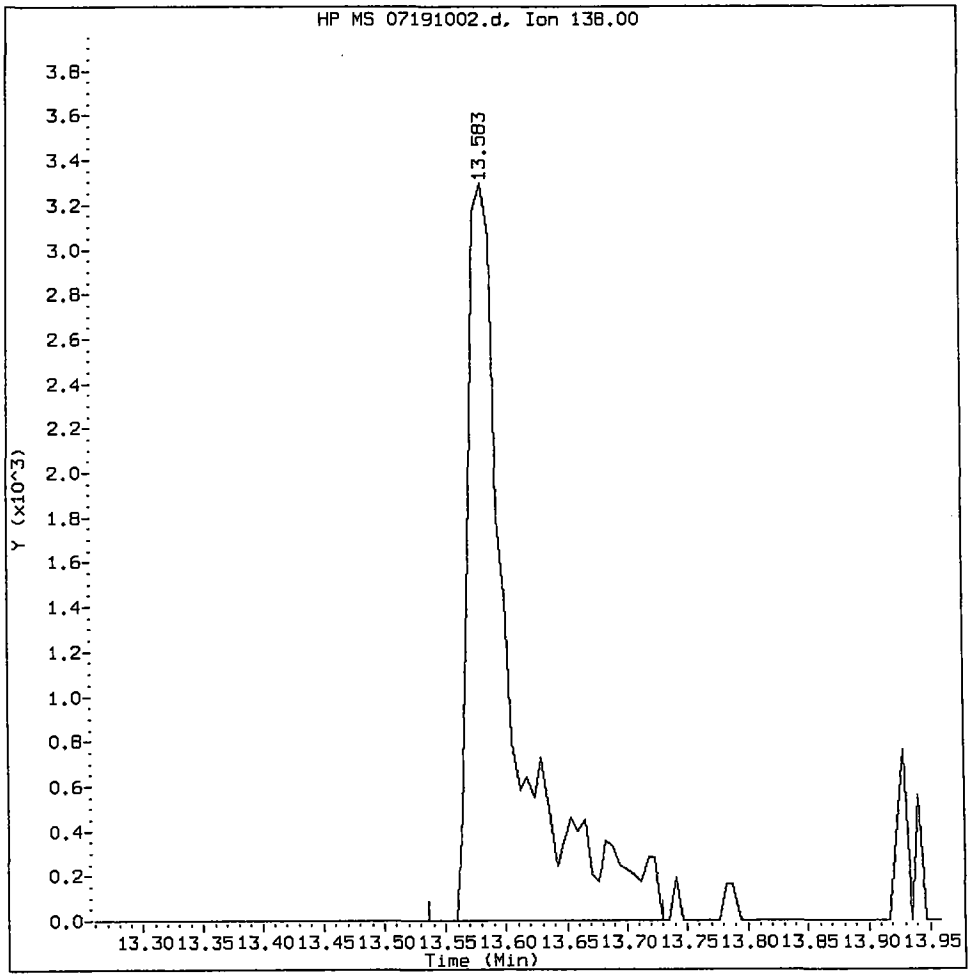


07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

3-Nitroaniline Amount: 1.00 Area: 8127



MANUAL INTEGRATION for 3-Nitroaniline

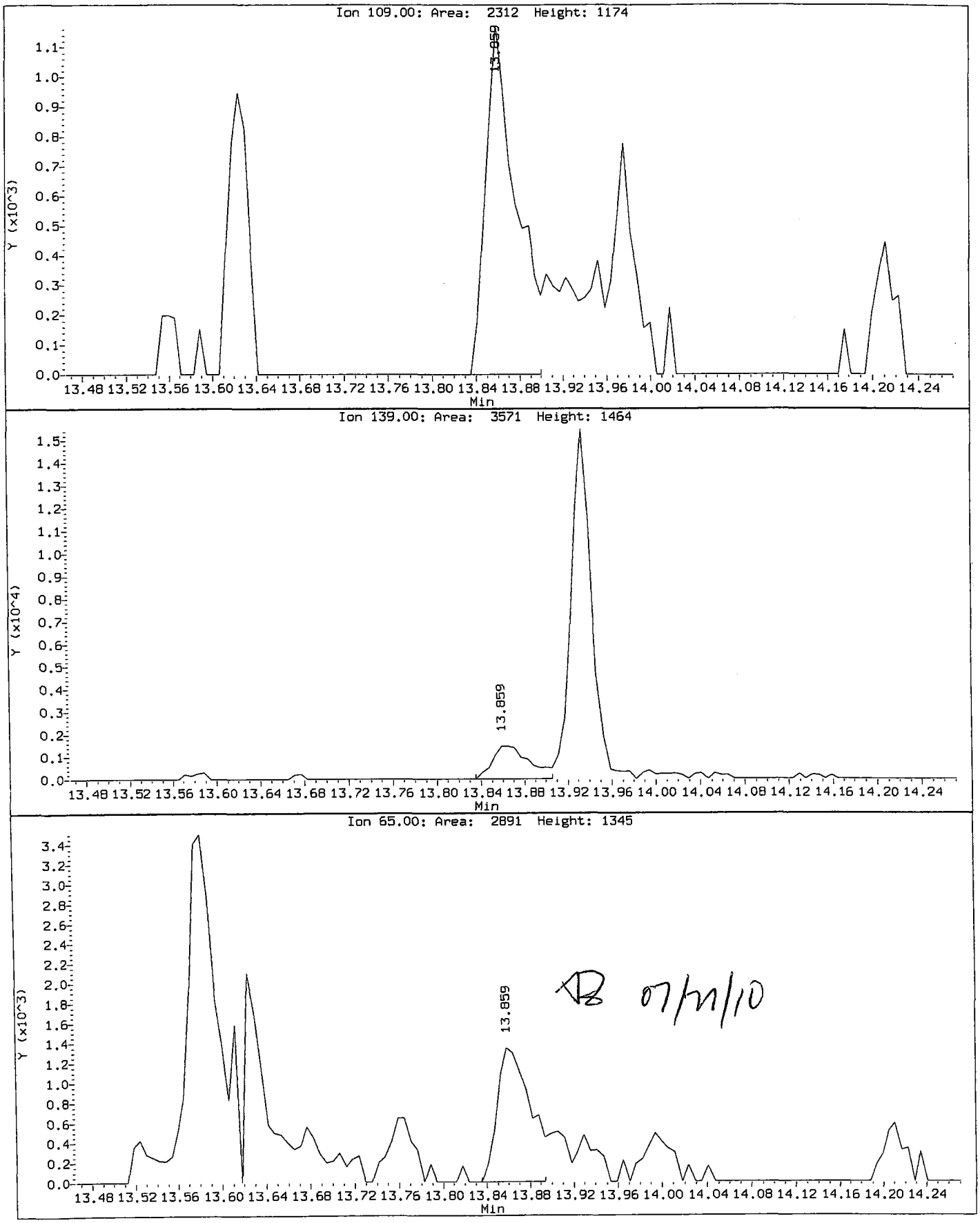
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/14/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

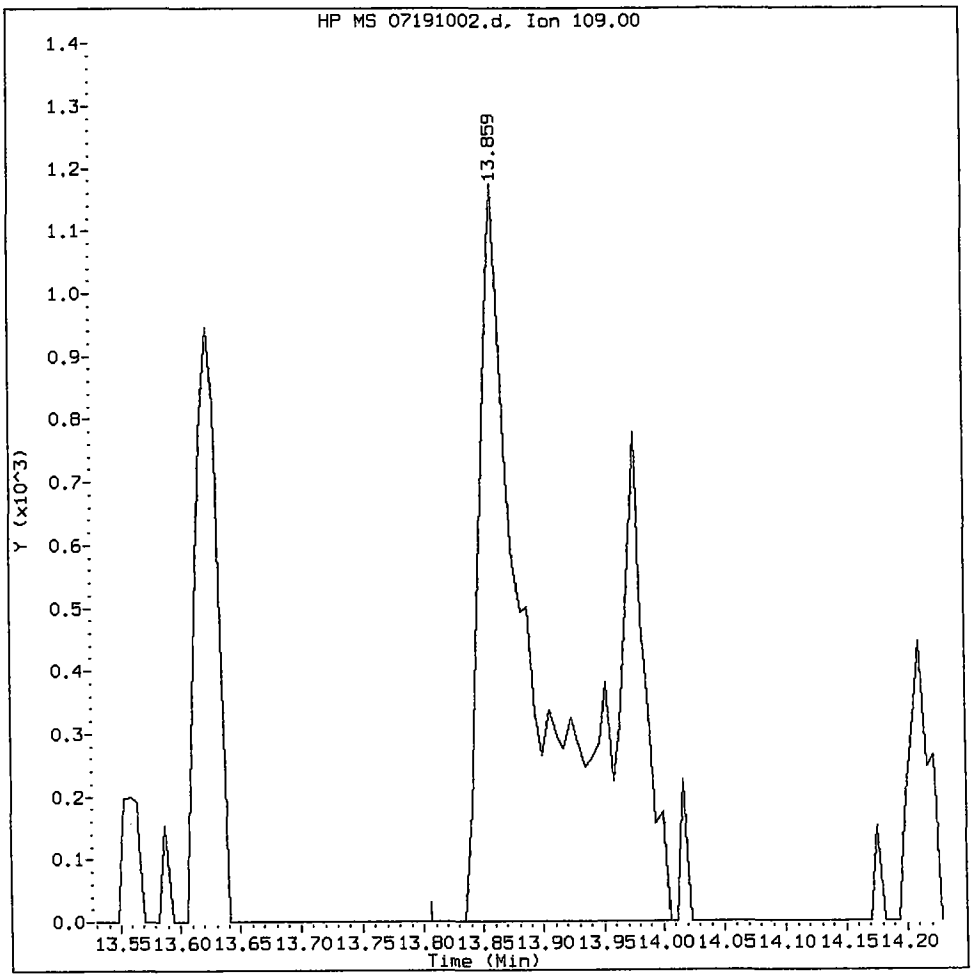
Compound: 4-Nitrophenol
CAS Number: 100-02-7



RB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitrophenol Amount: 0.00 Area: 4317



MANUAL INTEGRATION for 4-Nitrophenol

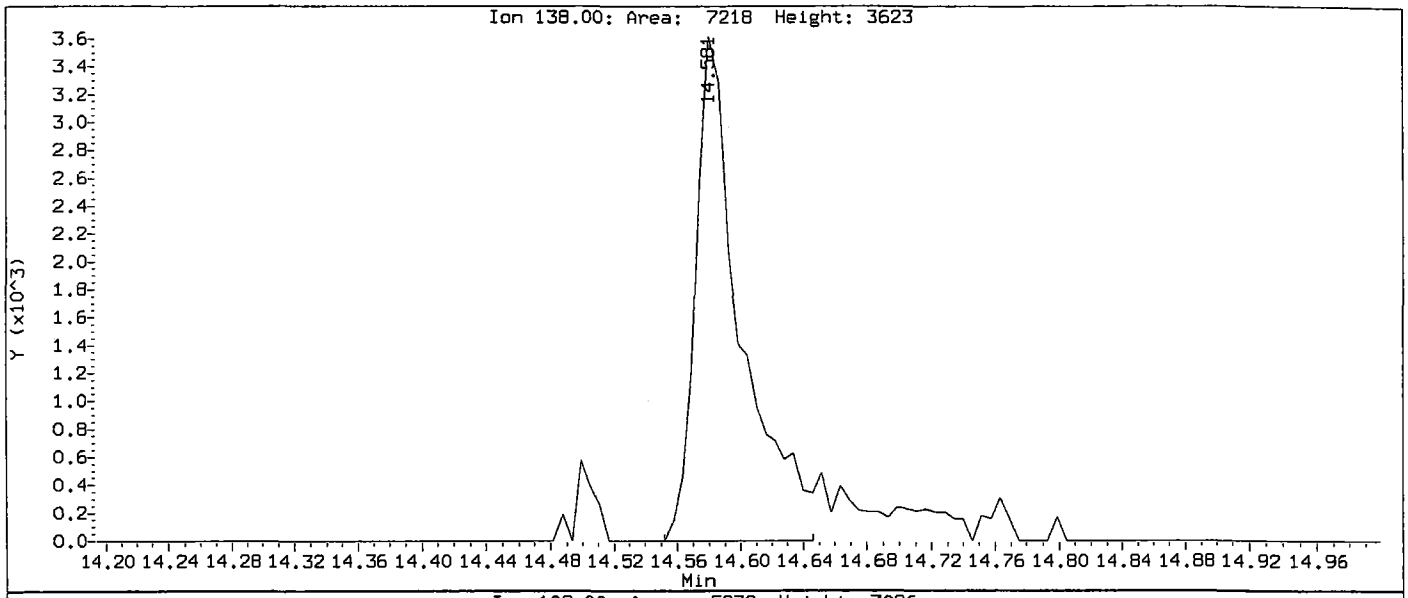
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

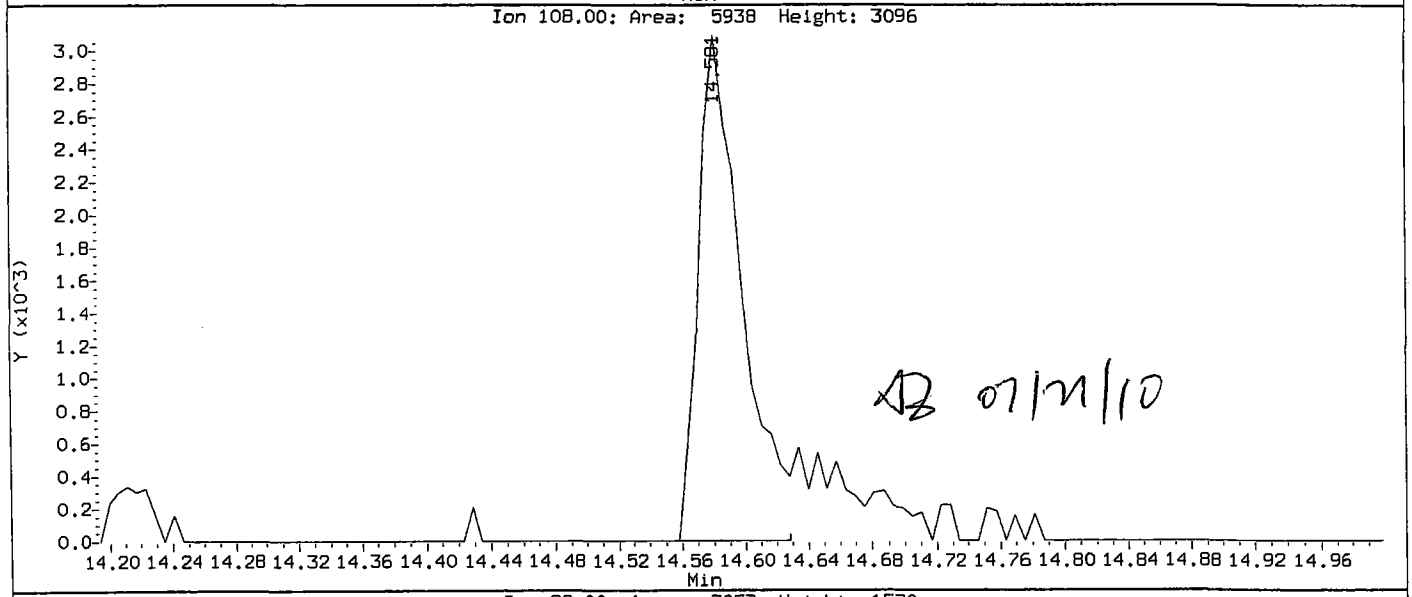
5. Other _____

Analyst: _____ Date: 07/21/10

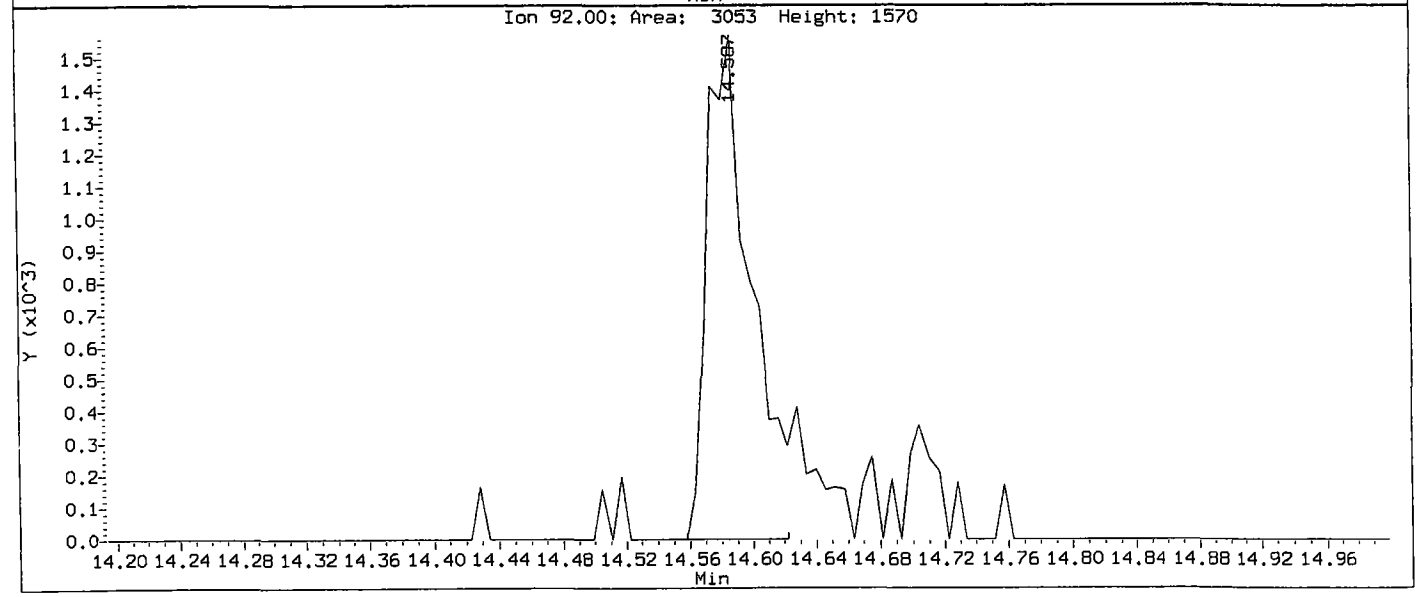
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 4-Nitroaniline
CAS Number: 100-01-6



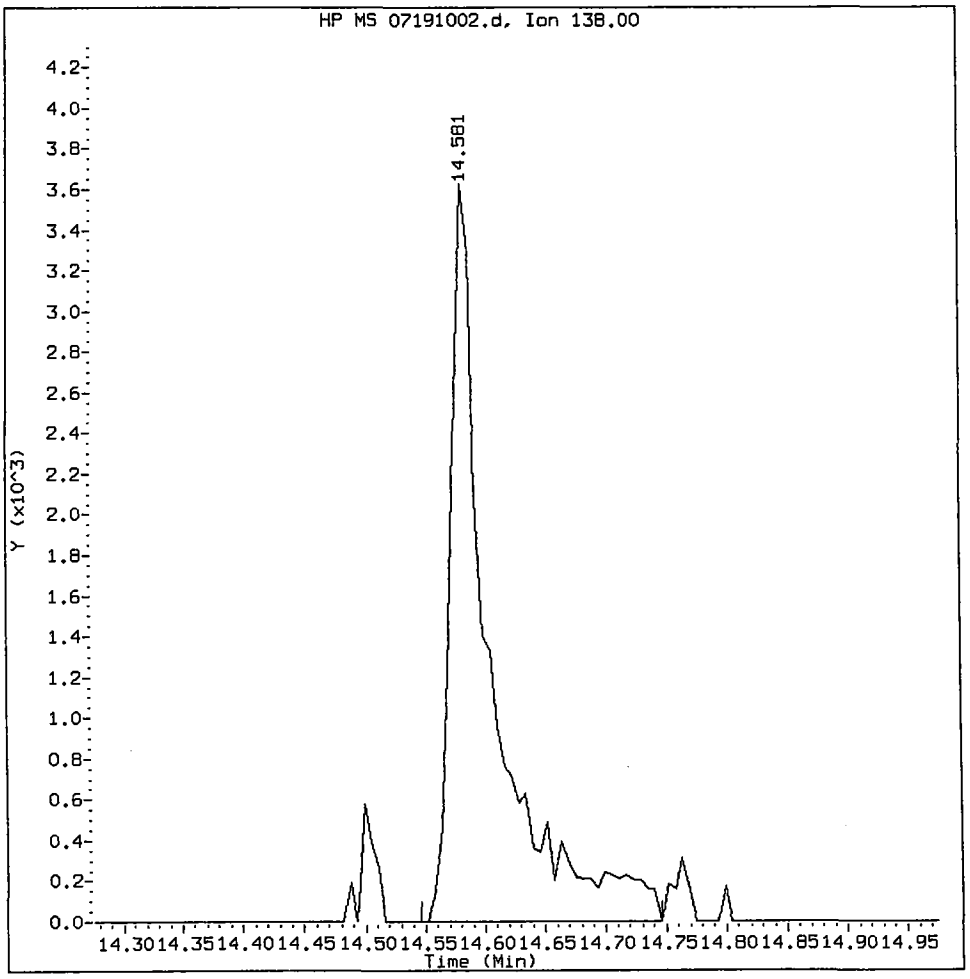


AB 07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitroaniline Amount: 1.00 Area: 8559



MANUAL INTEGRATION for 4-Nitroaniline

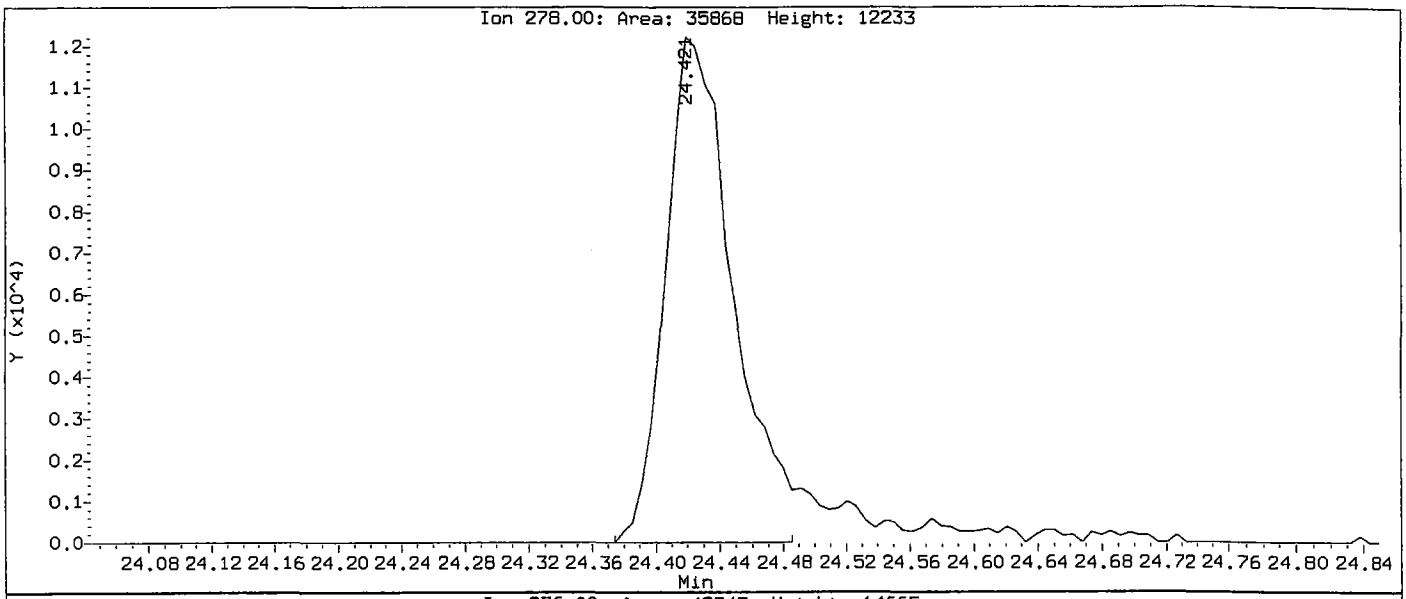
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

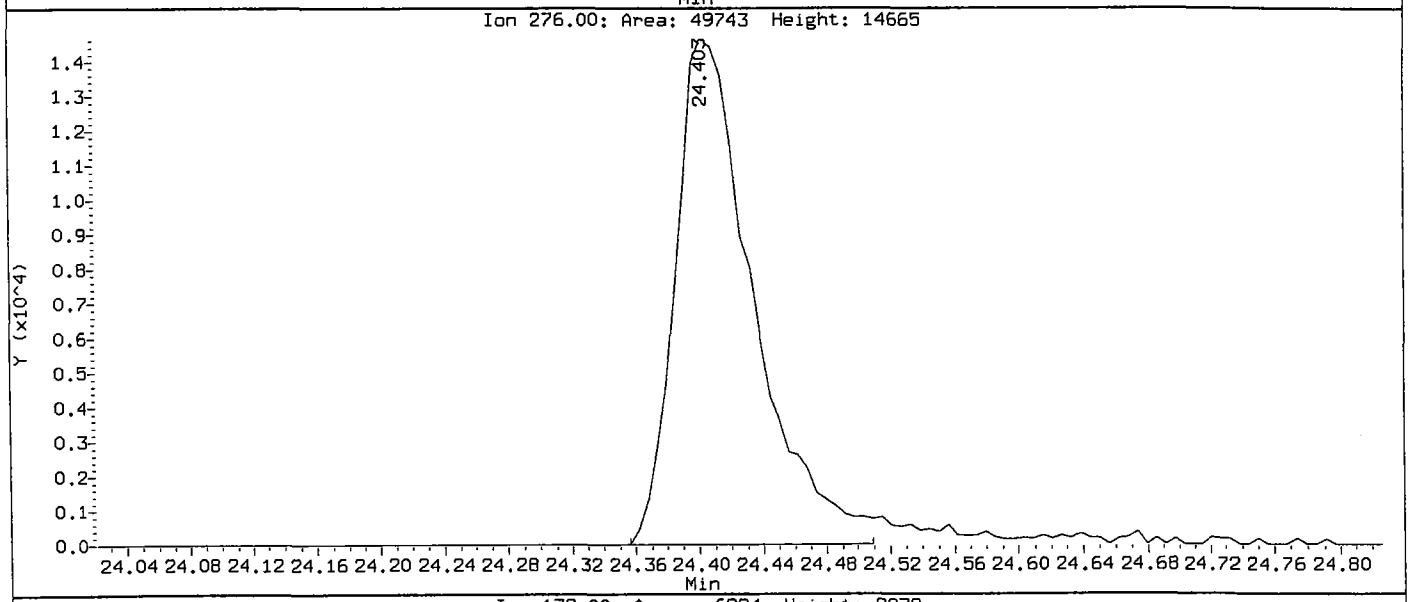
5. Other _____

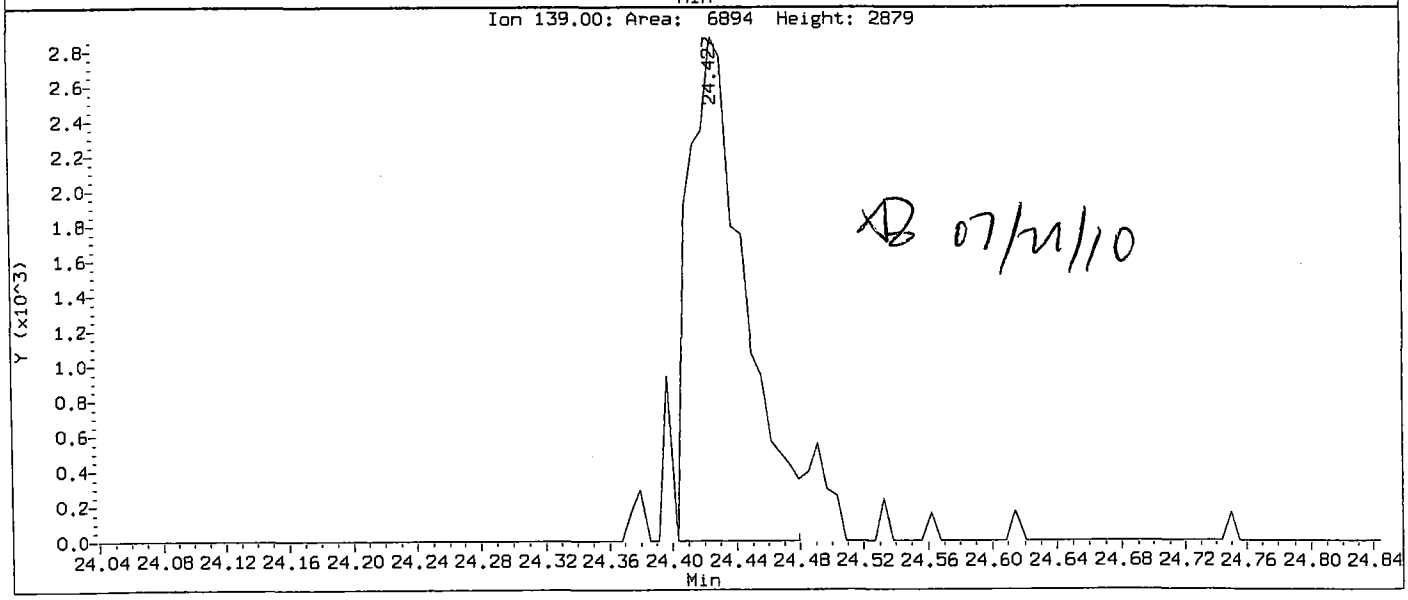
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



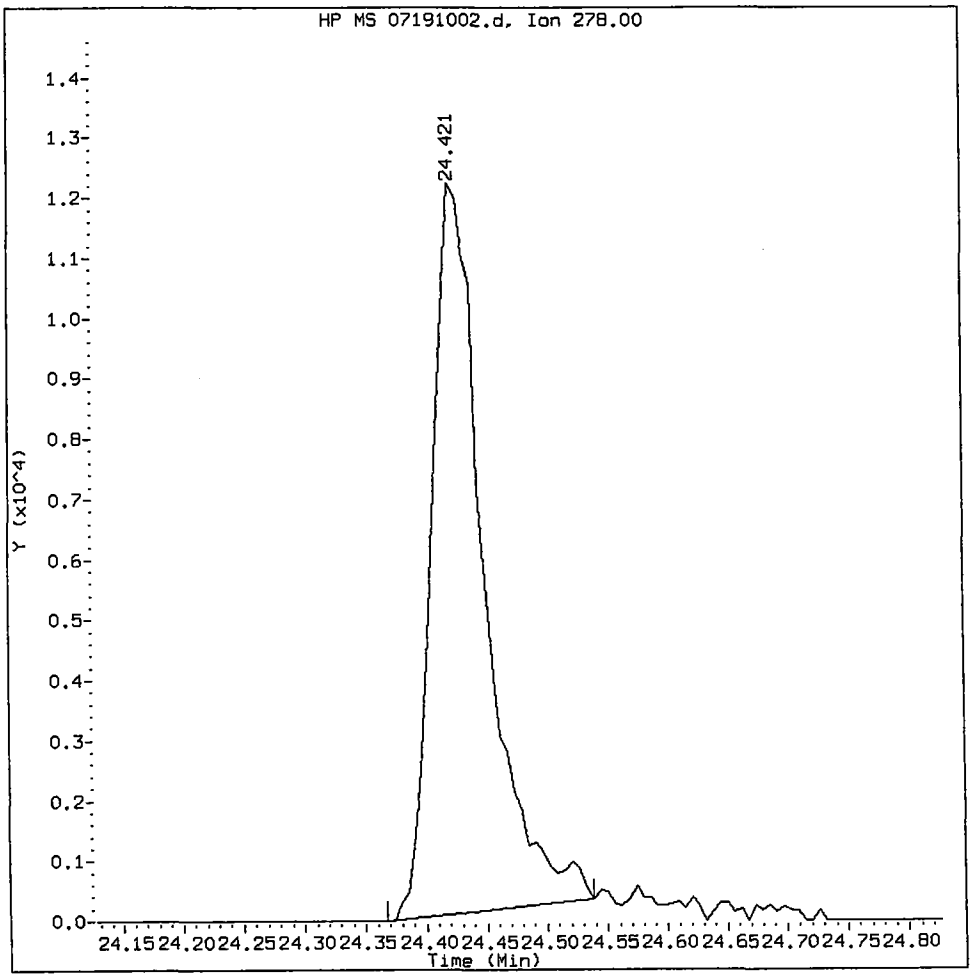




XD 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Dibenzo(a,h)anthracene Amount: 1.00 Area: 36717



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

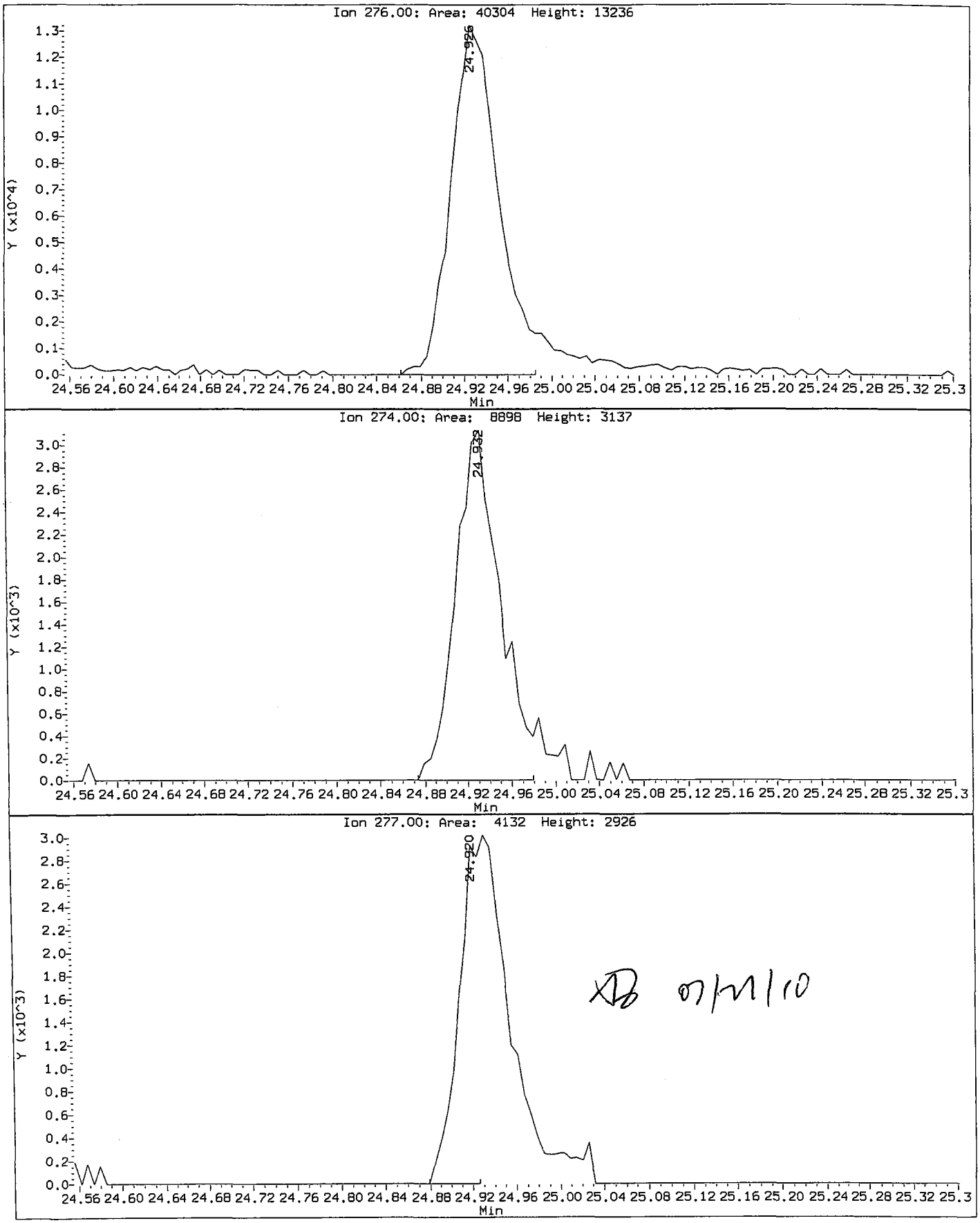
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date: 07/14/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

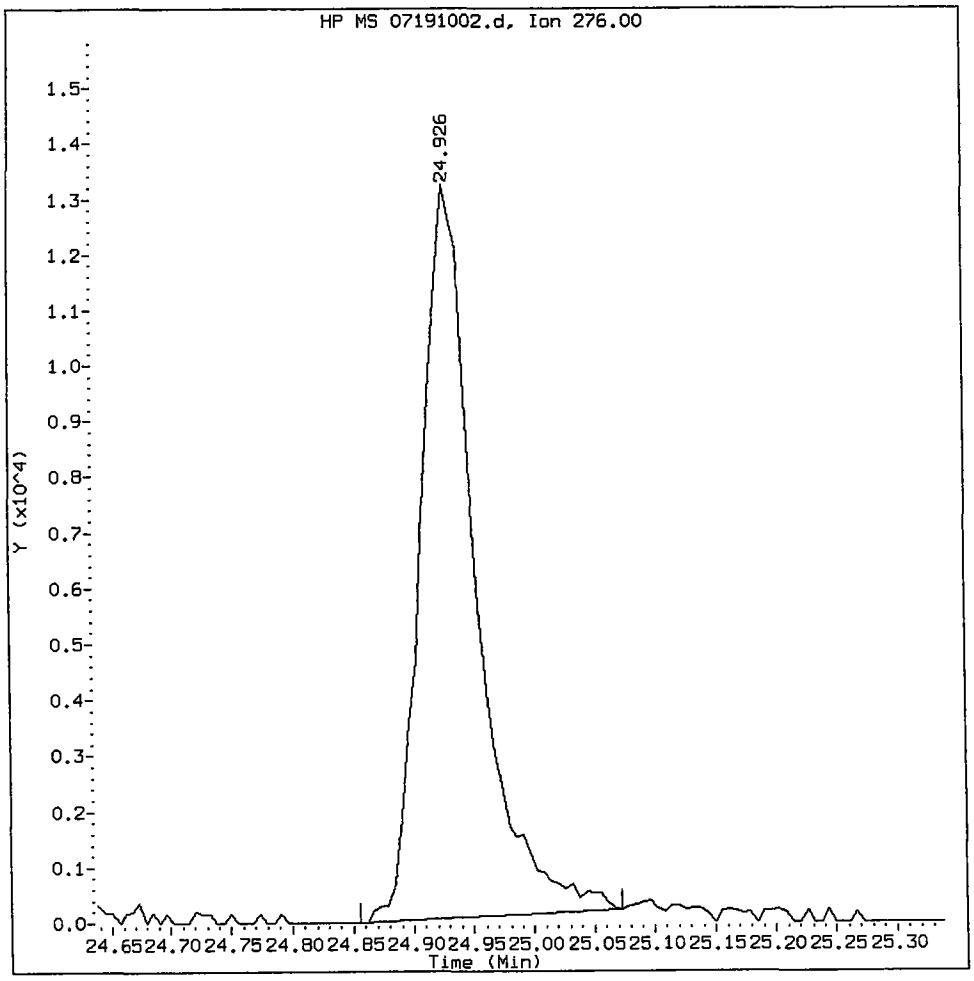
Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



XB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzo(g,h,i)perylene Amount: 1.00 Area: 42342



MANUAL INTEGRATION for Benzo(g,h,i)perylene

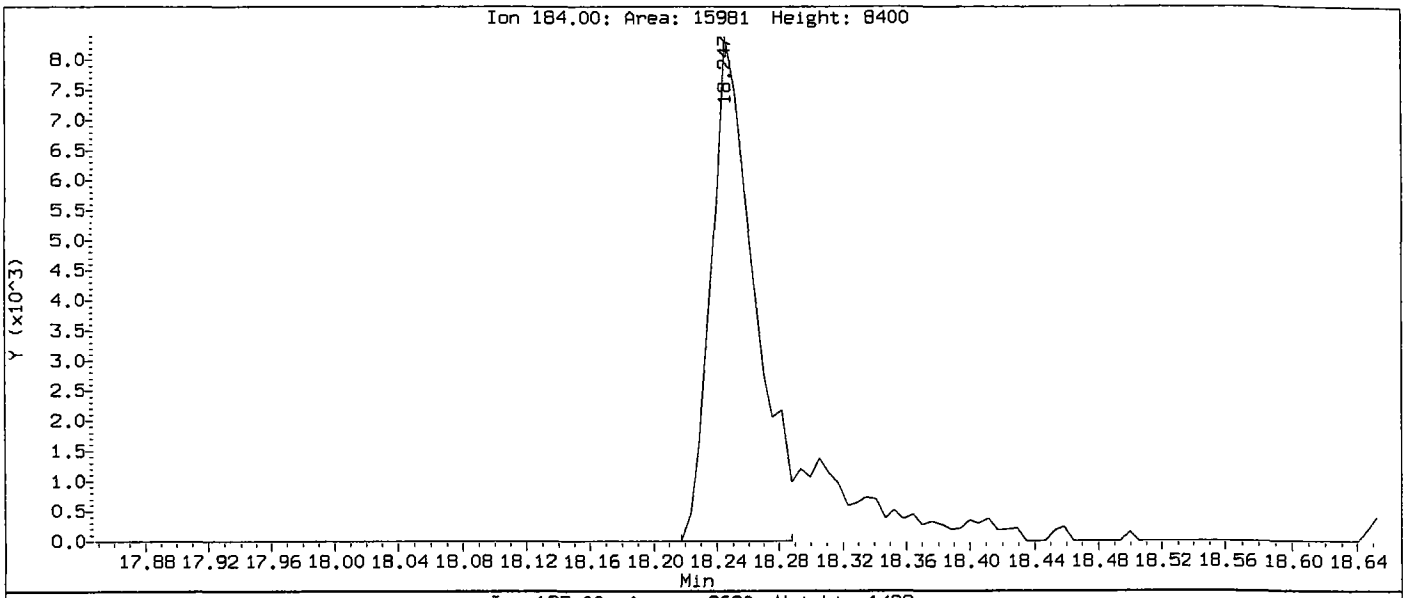
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

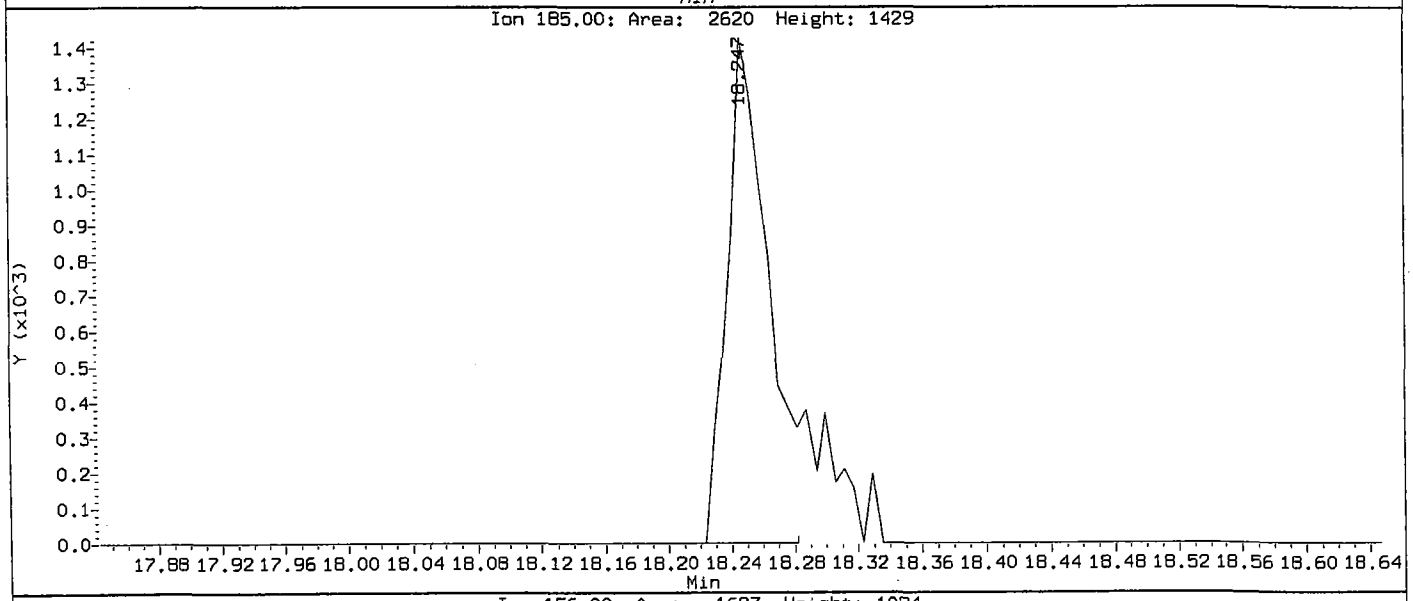
5. Other _____

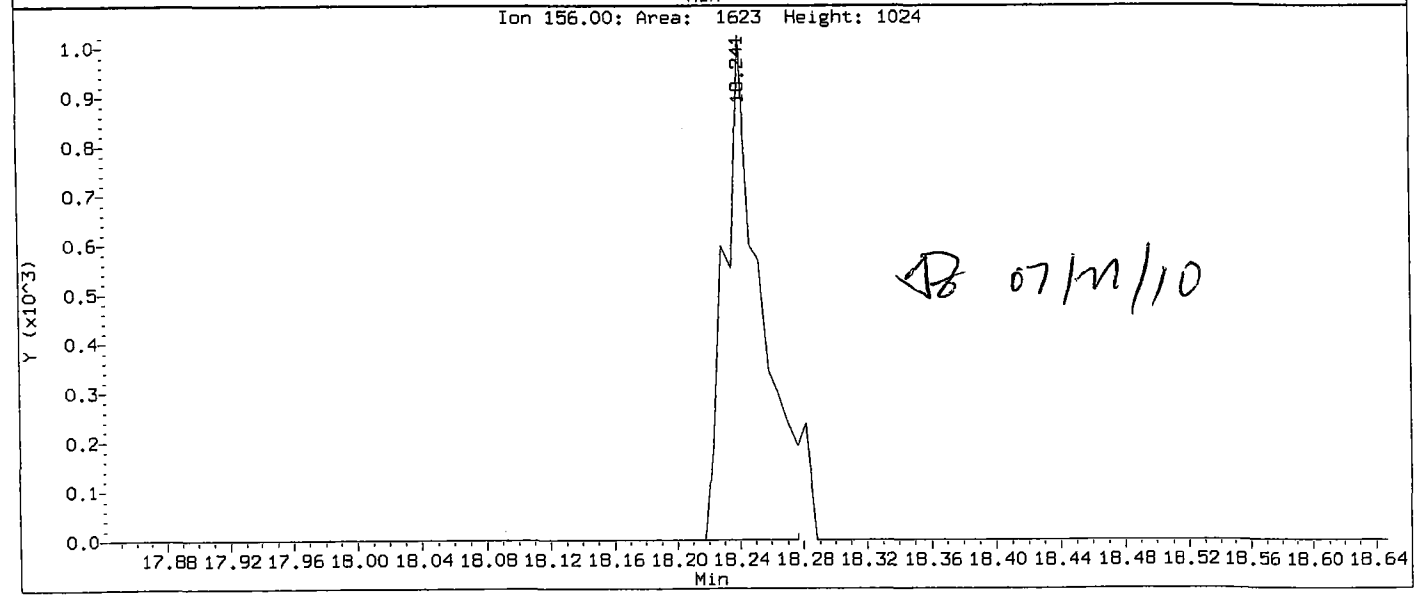
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzidine
CAS Number:



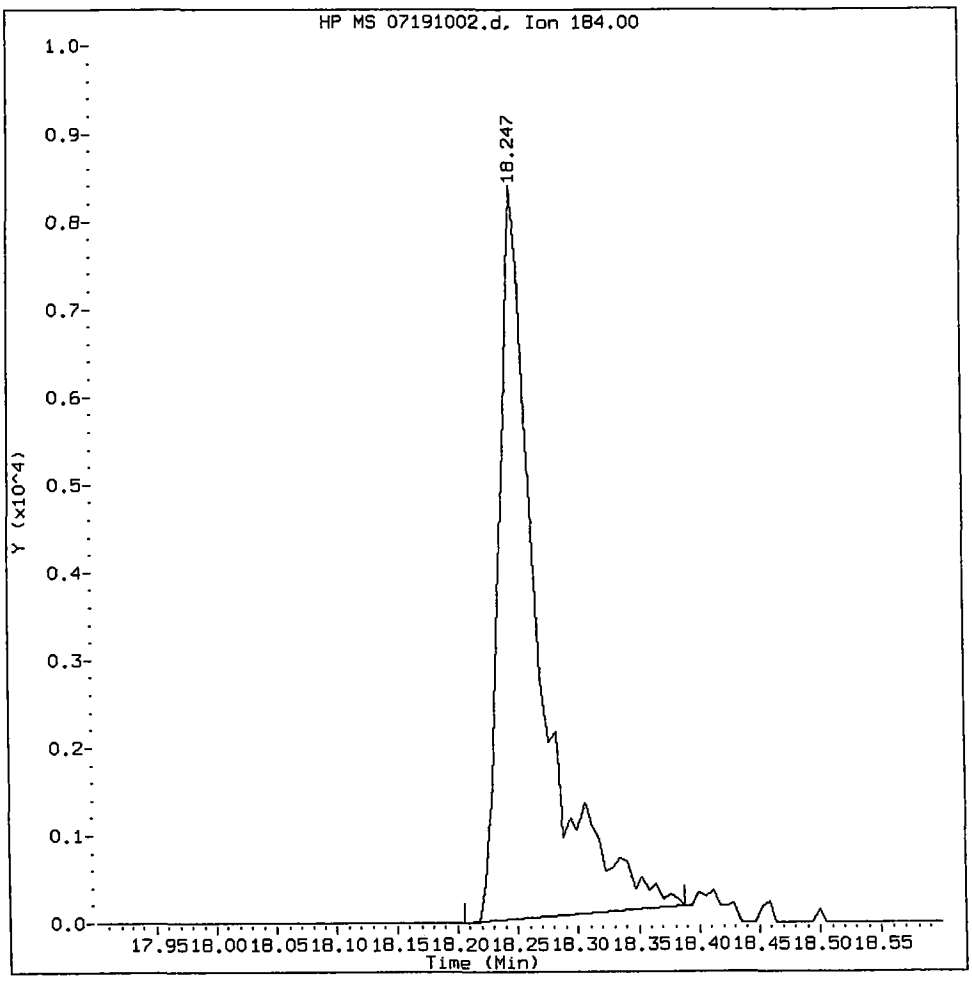




DB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzidine Amount: 1.00 Area: 18817



MANUAL INTEGRATION for Benzidine

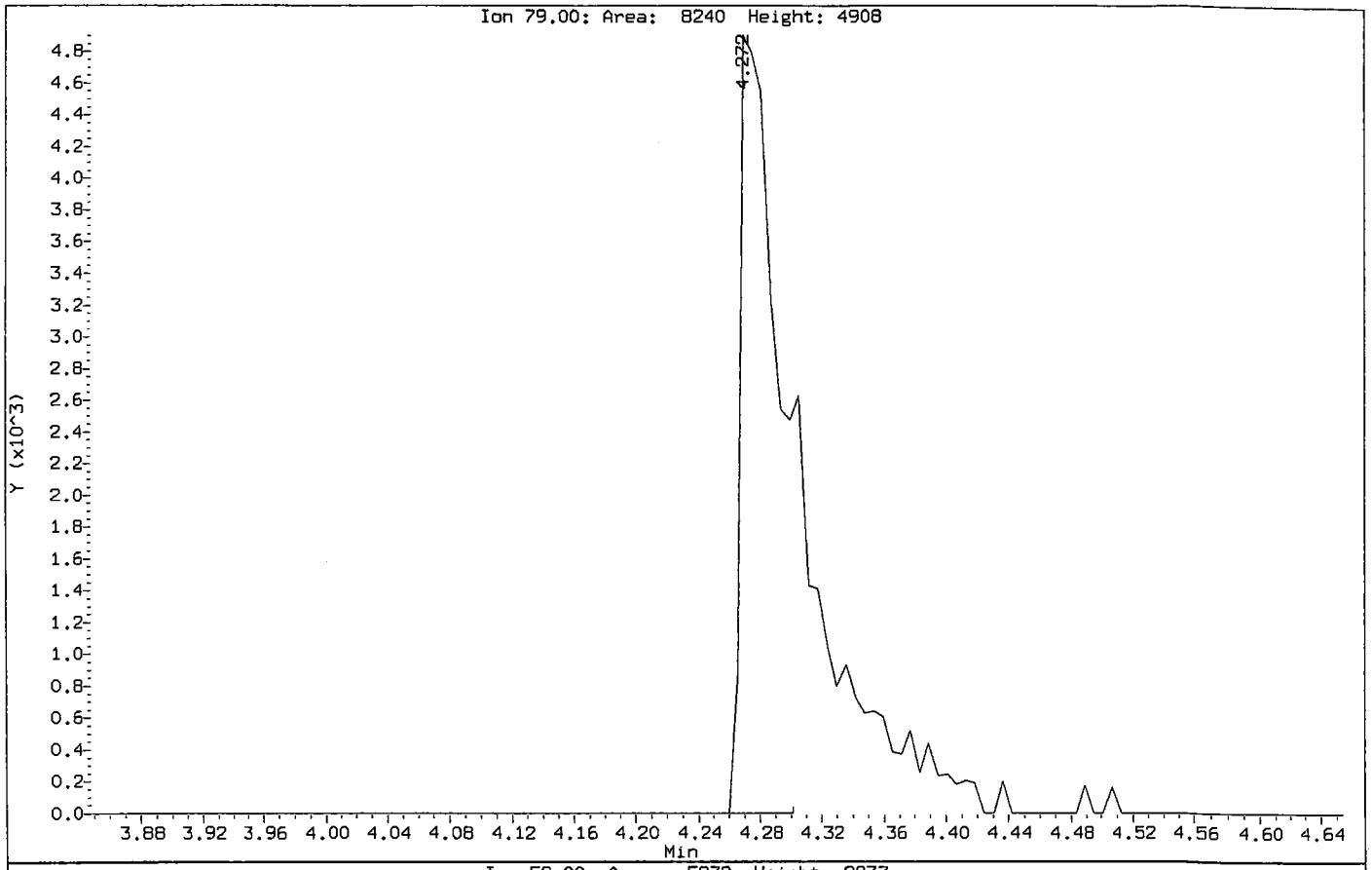
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

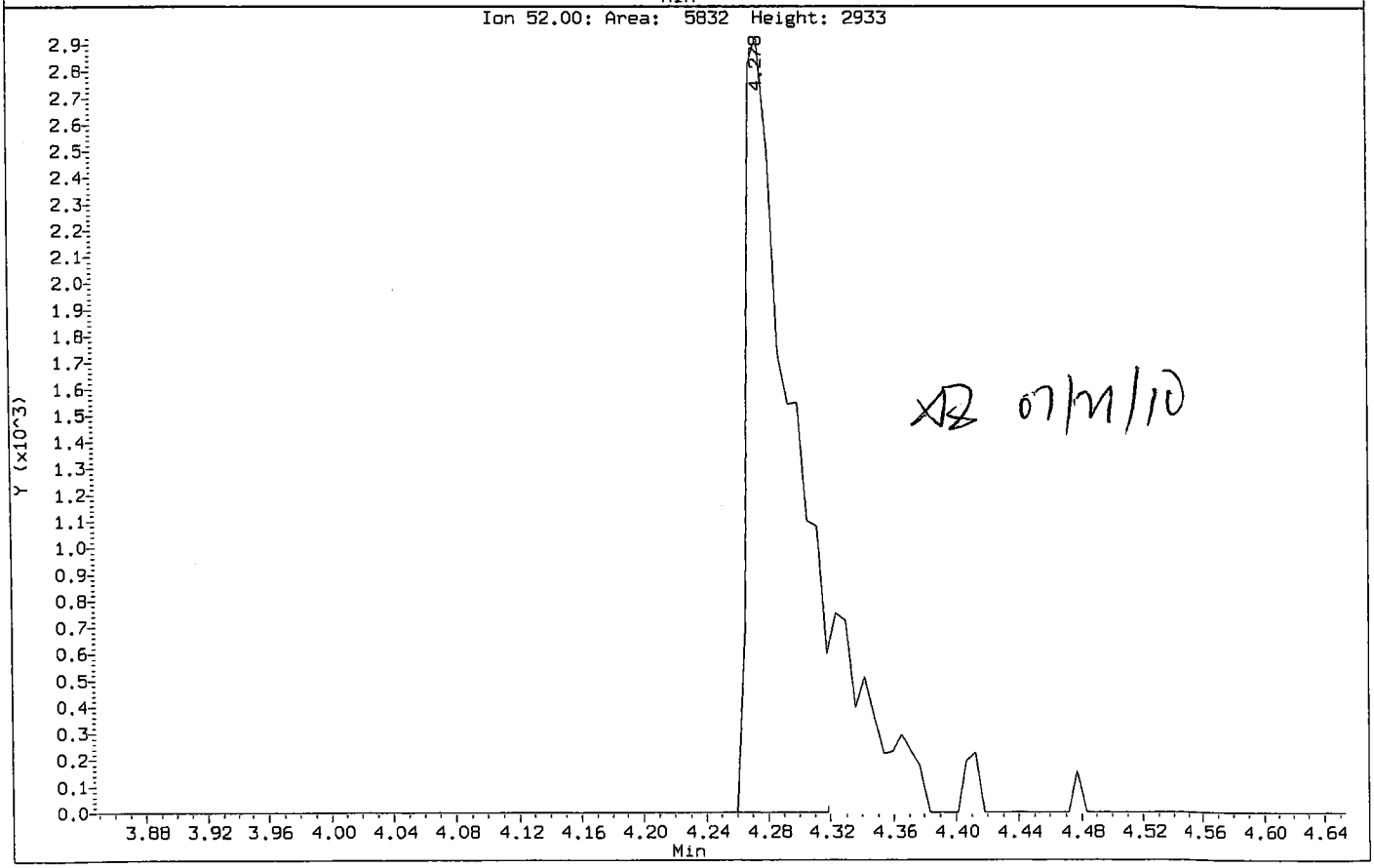
5. Other _____

Analyst: AD Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Pyridine
CAS Number:

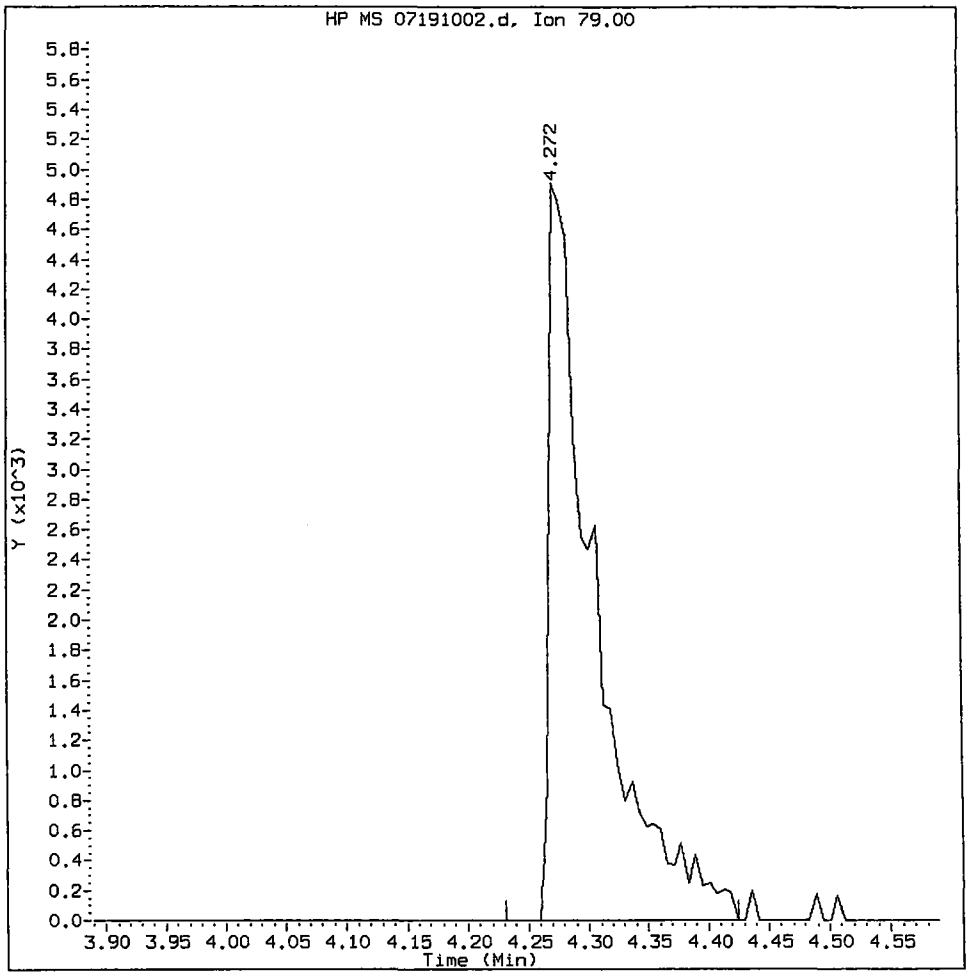




AB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Pyridine Amount: 1.00 Area: 13123



MANUAL INTEGRATION for Pyridine

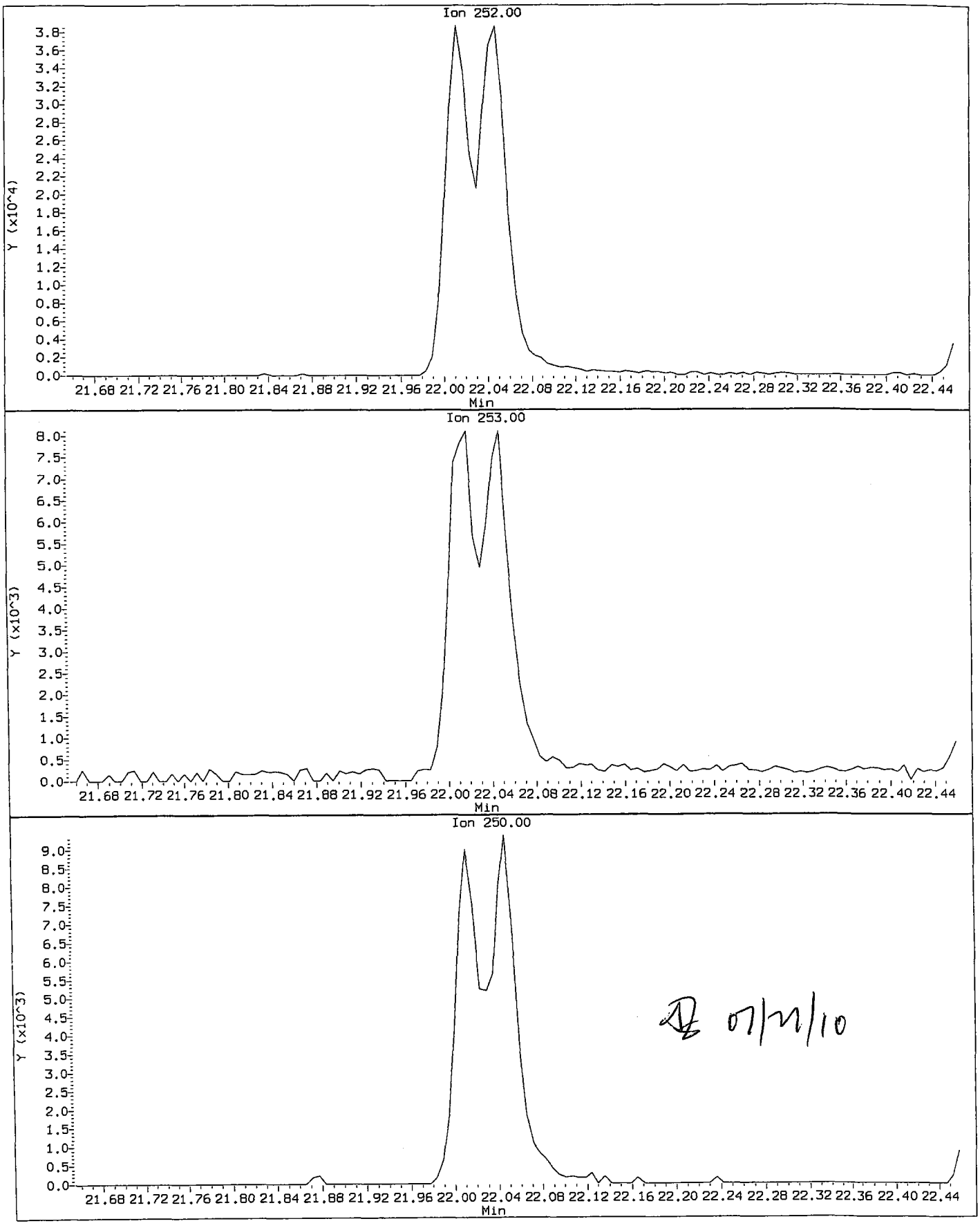
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/11/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

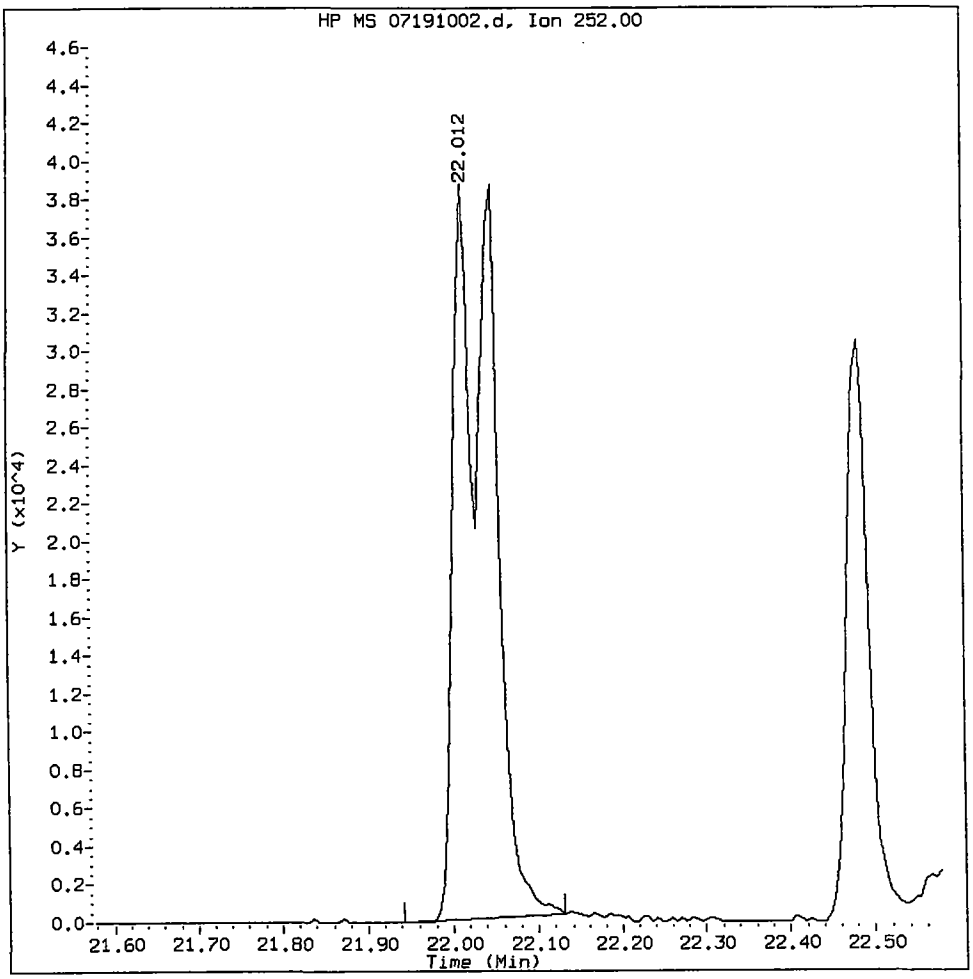
Compound: Total Benzofluoranthenes
CAS Number:



07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Total Benzofluoranthenes Amount: 2.00 Area: 123956



MANUAL INTEGRATION for Total Benzofluoranthenes

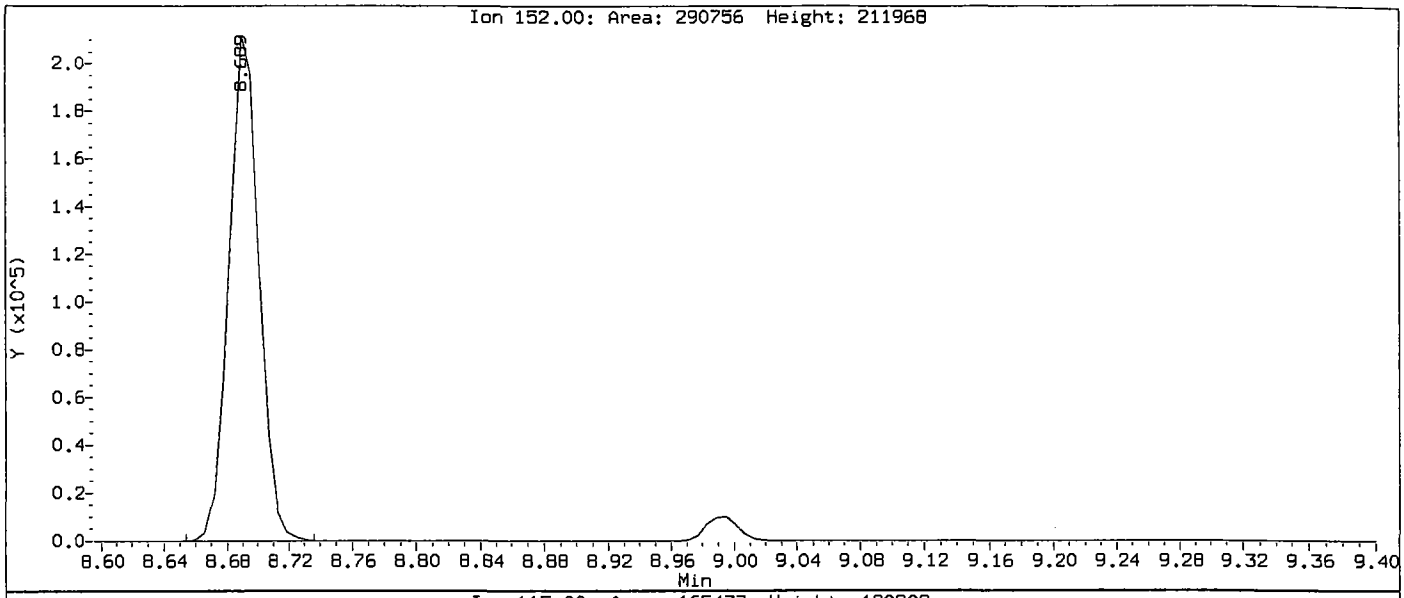
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

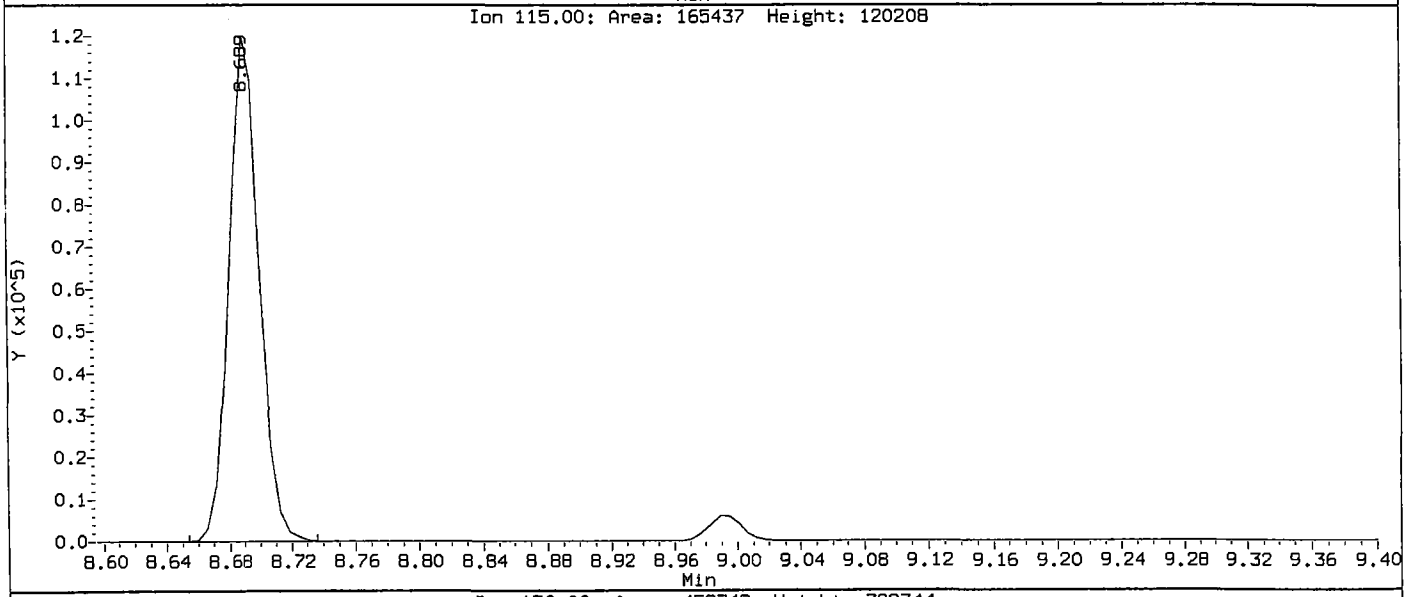
5. Other _____

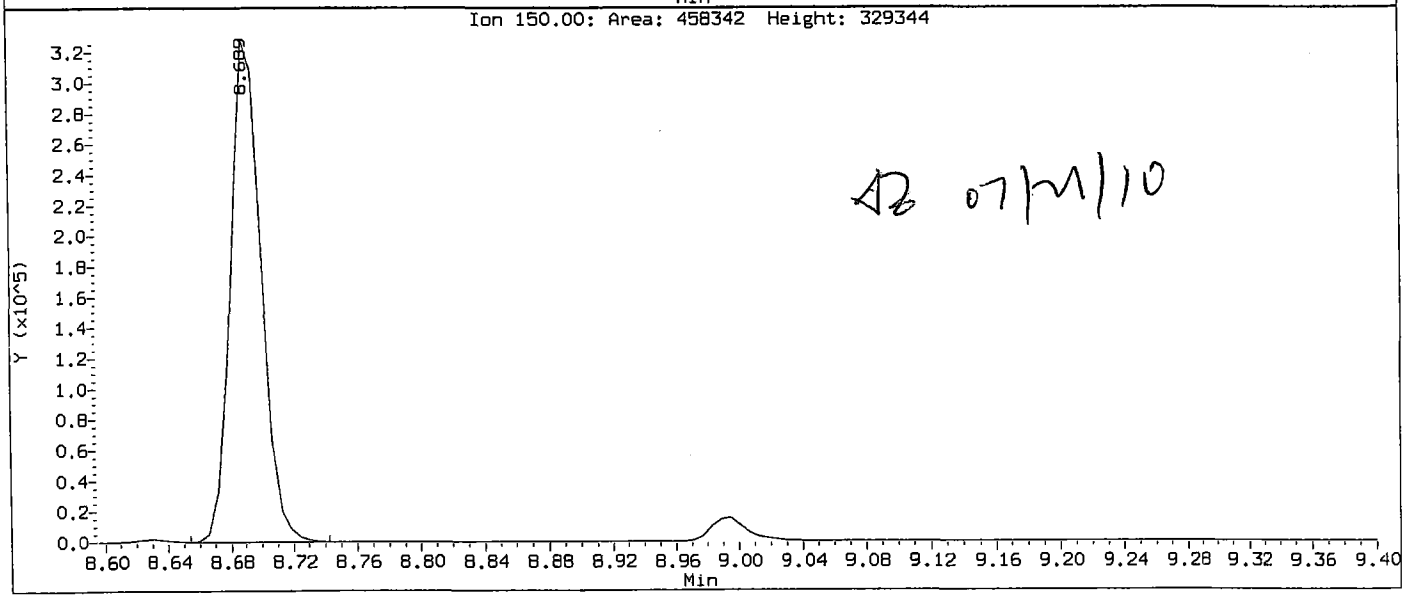
Analyst: AB Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 1,2-Dichlorobenzene-d4
CAS Number: 2199-69-1



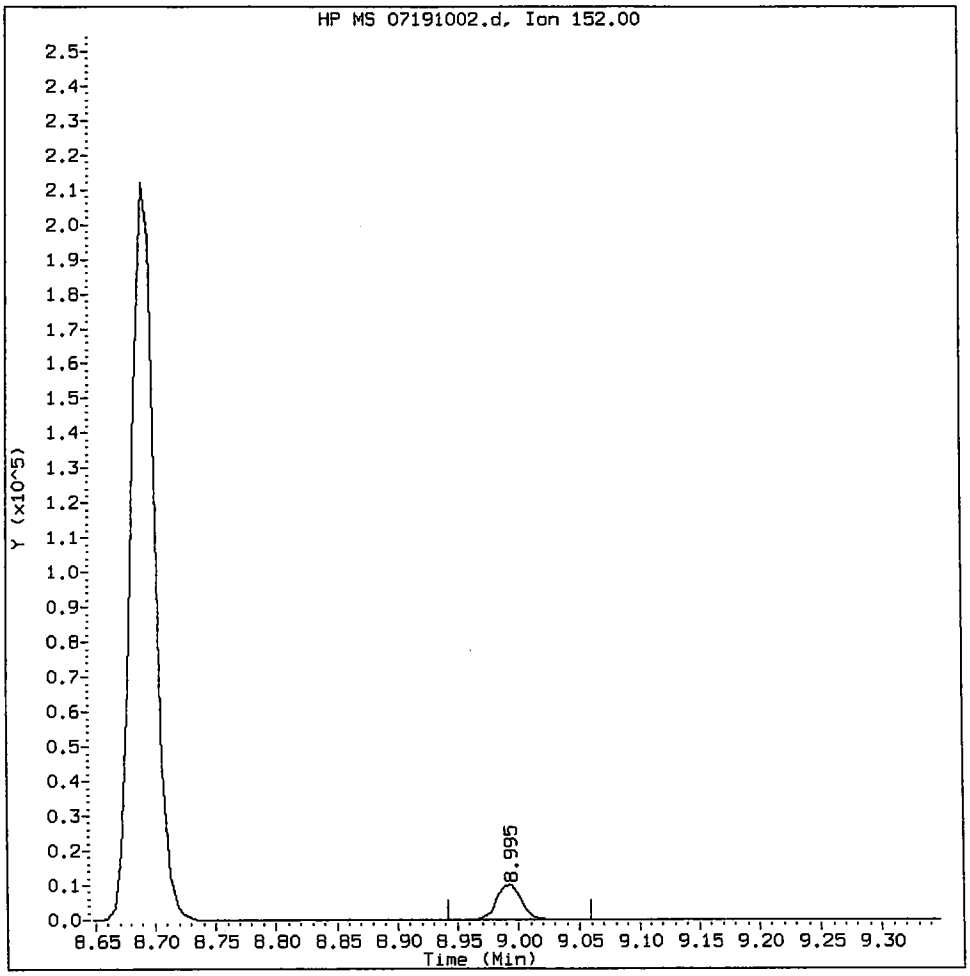




AB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

1,2-Dichlorobenzene-d4 Amount: 1.00 Area: 14140



MANUAL INTEGRATION for 1,2-Dichlorobenzene-d4

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT correction

Analyst: [signature] Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191003.d
Lab Smp Id: IC050719 Client Smp ID: IC050719
Inj Date : 19-JUL-2010 17:33
Operator : JZ Inst ID: nt4.i
Smp Info : IC050719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 17:33 Cal File: 07191003.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AQ 07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.724	6.737	(0.774)	78735	5.00000	4.912
$	2	Phenol-d5	99	8.210	8.229	(0.945)	78205	5.00000	5.059
	3	Phenol	94	8.228	8.252	(0.947)	104398	5.00000	4.945
$	5	2-Chlorophenol-d4	132	8.386	8.393	(0.965)	82652	5.00000	4.925
	4	Bis(2-Chloroethyl)ether	93	8.339	8.352	(0.959)	73772	5.00000	4.772
	6	2-Chlorophenol	128	8.410	8.423	(0.968)	95435	5.00000	4.973
	7	1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	105213	5.00000	4.676
*	8	1,4-Dichlorobenzene-d4	152	8.692	8.699	(1.000)	280196	20.0000	
	9	1,4-Dichlorobenzene	146	8.715	8.722	(1.003)	106033	5.00000	4.713
$	10	1,2-Dichlorobenzene-d4	152	8.991	8.998	(1.034)	64046	5.00000	4.845
	12	1,2-Dichlorobenzene	146	9.015	9.022	(1.037)	100850	5.00000	4.766
	11	Benzyl alcohol	108	8.944	8.969	(1.029)	63901	5.00000	5.000
	14	2,2'-oxybis(1-Chloropropane)	45	9.203	9.216	(1.059)	71419	5.00000	4.734
	13	2-Methylphenol	108	9.162	9.181	(1.054)	77789	5.00000	5.256
	17	Hexachloroethane	117	9.508	9.509	(1.094)	39059	5.00000	4.853
	16	N-Nitroso-di-n-propylamine	70	9.414	9.445	(1.083)	52329	5.00000	4.869
	15	4-Methylphenol	108	9.391	9.415	(1.080)	81439	5.00000	5.192
$	18	Nitrobenzene-d5	82	9.614	9.627	(0.895)	83867	5.00000	5.032
	19	Nitrobenzene	77	9.644	9.662	(0.898)	81864	5.00000	4.830
	20	Isophorone	82	10.014	10.038	(0.932)	131381	5.00000	4.745
	21	2-Nitrophenol	139	10.160	10.173	(0.946)	47132	5.00000	5.339
	22	2,4-Dimethylphenol	107	10.237	10.256	(0.953)	92317	5.00000	5.160
	23	Bis(2-Chloroethoxy)methane	93	10.390	10.408	(0.967)	91416	5.00000	4.707
	24	Benzoic acid	105	10.354	10.567	(0.964)	76277	10.0000	10.00
	25	2,4-Dichlorophenol	162	10.531	10.549	(0.980)	76474	5.00000	5.428
	26	1,2,4-Trichlorobenzene	180	10.677	10.684	(0.994)	85339	5.00000	4.773
*	27	Naphthalene-d8	136	10.742	10.749	(1.000)	1016171	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.771	10.784	(1.003)	258970	5.00000	4.633
	29 4-Chloroaniline	127	10.895	10.908	(1.014)	101792	5.00000	5.051
	30 Hexachlorobutadiene	225	11.083	11.084	(1.032)	47045	5.00000	4.599
	31 4-Chloro-3-methylphenol	107	11.688	11.701	(1.088)	68890	5.00000	5.708
	32 2-Methylnaphthalene	142	11.893	11.906	(1.107)	168353	5.00000	4.703
	33 Hexachlorocyclopentadiene	237	12.275	12.282	(0.901)	36180	5.00000	5.000
	34 2,4,6-Trichlorophenol	196	12.404	12.411	(0.910)	53574	5.00000	5.374
	35 2,4,5-Trichlorophenol	196	12.457	12.470	(0.914)	52498	5.00000	5.856
$	36 2-Fluorobiphenyl	172	12.534	12.541	(0.920)	199267	5.00000	4.763
	37 2-Chloronaphthalene	162	12.686	12.699	(0.931)	168111	5.00000	4.743
	38 2-Nitroaniline	65	12.904	12.923	(0.947)	27788	5.00000	5.681
	39 Dimethylphthalate	163	13.262	13.287	(0.973)	194622	5.00000	4.726
	40 Acenaphthylene	152	13.374	13.381	(0.981)	262580	5.00000	4.738
	41 2,6-Dinitrotoluene	165	13.362	13.387	(0.981)	41526	5.00000	5.326
*	42 Acenaphthene-d10	164	13.626	13.633	(1.000)	598563	20.0000	
	43 3-Nitroaniline	138	13.579	13.610	(0.997)	40739	5.00000	5.050
	44 Acenaphthene	153	13.673	13.686	(1.003)	164445	5.00000	4.688
	45 2,4-Dinitrophenol	184	13.744	13.780	(1.009)	10990	10.0000	10.00
	46 Dibenzofuran	168	13.938	13.951	(1.023)	223252	5.00000	4.755
	47 4-Nitrophenol	109	13.855	13.880	(1.017)	22195	5.00000	5.000
	48 2,4-Dinitrotoluene	165	13.996	14.021	(1.027)	52686	5.00000	5.501
	50 Diethylphthalate	149	14.419	14.438	(1.058)	204717	5.00000	4.651
	49 Fluorene	166	14.502	14.514	(1.064)	194472	5.00000	4.735
	51 4-Chlorophenyl-phenylether	204	14.508	14.514	(1.065)	92222	5.00000	4.701
	52 4-Nitroaniline	138	14.584	14.626	(1.070)	41882	5.00000	4.989
	53 4,6-Dinitro-2-methylphenol	198	14.660	14.697	(0.915)	44569	10.0000	10.00
	54 N-Nitrosodiphenylamine	169	14.707	14.732	(0.918)	142712	5.00000	4.860
$	55 2,4,6-Tribromophenol	330	14.925	14.937	(1.095)	21266	5.00000	5.568
	56 4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	50780	5.00000	4.886
	57 Hexachlorobenzene	284	15.536	15.548	(0.970)	52822	5.00000	4.645
	58 Pentachlorophenol	266	15.823	15.842	(0.988)	30827	5.00000	5.000
*	59 Phenanthrene-d10	188	16.023	16.036	(1.000)	1007780	20.0000	
	60 Phenanthrene	178	16.058	16.077	(1.002)	271669	5.00000	4.593
	61 Anthracene	178	16.135	16.153	(1.007)	278839	5.00000	4.659
	62 Carbazole	167	16.405	16.424	(1.024)	254700	5.00000	4.690
	63 Di-n-butylphthalate	149	17.086	17.093	(1.066)	334748	5.00000	4.886
	64 Fluoranthene	202	18.015	18.027	(1.124)	277298	5.00000	4.716
	65 Pyrene	202	18.379	18.397	(0.902)	291105	5.00000	4.608
$	66 Terphenyl-d14	244	18.667	18.674	(0.916)	179825	5.00000	4.663
	67 Butylbenzylphthalate	149	19.530	19.543	(0.958)	137881	5.00000	4.979
	68 Benzo(a)anthracene	228	20.347	20.365	(0.999)	265449	5.00000	4.631
*	69 Chrysene-d12	240	20.376	20.389	(1.000)	879562	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.335	20.348	(0.998)	88480	5.00000	5.218
	71 Chrysene	228	20.411	20.436	(1.002)	263806	5.00000	4.644
	72 bis(2-Ethylhexyl)phthalate	149	20.511	20.518	(0.956)	195395	5.00000	5.166
*	134 Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1375669	20.0000	
	73 Di-n-octylphthalate	149	21.457	21.470	(1.000)	361557	5.00000	4.537

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.015	22.040	(0.975)	281777	5.00000	4.793
75	Benzo(k)fluoranthene	252	22.044	22.075	(0.977)	281647	5.00000	4.569
187	Total Benzofluoranthenes	252	22.044	22.075	(0.977)	534883	10.0000	9.404
76	Benzo(a)pyrene	252	22.485	22.510	(0.996)	240795	5.00000	4.722
* 77	Perylene-d12	264	22.573	22.580	(1.000)	872109	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.406	24.454	(1.081)	235258	5.00000	4.931
79	Dibenzo(a,h)anthracene	278	24.429	24.477	(1.082)	188107	5.00000	5.131
80	Benzo(g,h,i)perylene	276	24.929	24.989	(1.104)	196313	5.00000	4.881
90	N-Nitrosodimethylamine	74	4.257	4.281	(0.490)	42007	5.00000	4.807
103	Pyridine	79	4.245	4.240	(0.488)	66826	5.00000	5.138
91	Aniline	93	8.240	8.252	(0.948)	108308	5.00000	4.815
105	1-methylnaphthalene	142	12.070	12.082	(1.124)	161677	5.00000	4.629
93	Benzidine	184	18.244	18.251	(0.895)	95796	5.00000	5.069
111	Azobenzene (1,2-DP-Hydrazine)	77	14.760	14.779	(1.083)	157755	5.00000	4.804
143	1,4-Dioxane	88	3.487	3.494	(0.401)	27080	5.00000	
$ 137	d8-1,4-Dioxane	96	3.417	3.424	(0.393)	28631	5.00000	
151	1,2,4,5-Tetrachlorobenzene	216	12.234	12.247	(0.898)	81805	5.00000	4.737
120	2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	42525	5.00000	5.269
144	alpha-Terpineol	59	10.777	10.790	(1.003)	46405	5.00000	4.732
98	Retene	219	18.925	18.932	(0.929)	92486	5.00000	4.782
133	Butylatedhydroxytoluene	205	13.767	13.774	(1.010)	155768	5.00000	4.651
115	Tributyl Phosphate	99	14.766	14.802	(0.922)	204221	5.00000	4.963
116	Dibutyl Phenyl Phosphate	175	16.528	16.535	(1.032)	161048	5.00000	5.031
117	Butyl Diphenyl Phosphate	94	18.232	18.245	(0.895)	43853	5.00000	4.912
118	Triphenyl Phosphate	326	19.853	19.866	(0.974)	43306	5.00000	4.787
123	Acetophenone	105	9.373	9.392	(0.873)	109435	5.00000	4.776
179	n-Decane	57	8.498	8.505	(0.978)	57625	5.00000	4.716
180	n-Octadecane	57	15.876	15.883	(0.991)	76689	5.00000	5.015
168	Pentachlorobenzene	250	13.979	13.992	(1.026)	60444	5.00000	4.526
113	Diphenyl Oxide	170	12.863	12.870	(0.944)	170904	5.00000	4.716
112	Biphenyl	154	12.675	12.682	(0.930)	200895	5.00000	4.799
110	Tetrachloroguaiacol	247	15.947	15.971	(0.995)	56098	10.0000	9.796
109	3,4,5-Trichloroguaiacol	213	14.302	14.315	(0.893)	27754	5.00000	4.993
181	3,4,6-Trichloroguaiacol	211	14.425	14.444	(0.900)	33397	5.00000	5.072
108	4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	29137	5.00000	5.056
184	3,4-Dichloroguaiacol	192	12.751	12.764	(0.936)	29266	5.00000	5.110
107	4,5-Dichloroguaiacol	192	13.527	13.545	(0.993)	39384	5.00000	5.129
182	4,6-Dichloroguaiacol	192	13.562	13.580	(0.995)	37541	5.00000	4.850
185	4-Chloroguaiacol	115	11.653	11.660	(1.341)	19294	2.50000	2.552
106	Guaiacol	124	9.632	9.645	(1.108)	77212	5.00000	4.885

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191003.d
Lab Smp Id: IC050719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC050719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	280196	-21.40
27 Naphthalene-d8	1293412	646706	2586824	1016171	-21.43
42 Acenaphthene-d10	785897	392948	1571794	598563	-23.84
59 Phenanthrene-d10	1313990	656995	2627980	1007780	-23.30
69 Chrysene-d12	1155293	577646	2310586	879562	-23.87
134 Di-n-octylphthala	1825297	912648	3650594	1375669	-24.63
77 Perylene-d12	1146289	573144	2292578	872109	-23.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.07
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.04
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.03

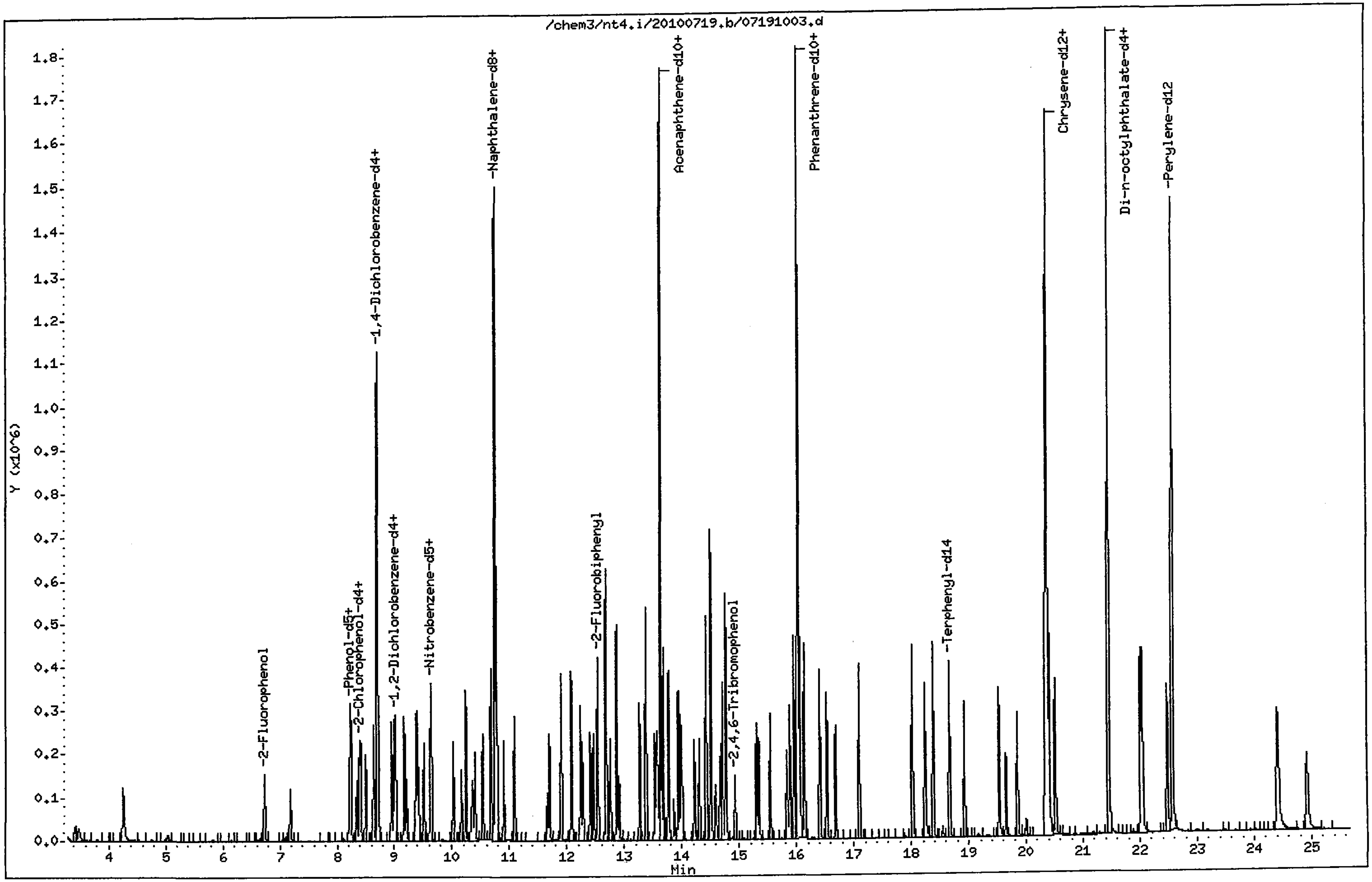
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191003.d
Date : 19-JUL-2010 17:33
Client ID: IC050719
Sample Info: IC050719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191004.d
Lab Smp Id: IC100719 Client Smp ID: IC100719
Inj Date : 19-JUL-2010 18:07
Operator : JZ Inst ID: nt4.i
Smp Info : IC100719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:07 Cal File: 07191004.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.731	6.737	(0.774)	195589	10.0000	9.194
$	2	Phenol-d5	99	8.212	8.229	(0.945)	197945	10.0000	9.506
	3	Phenol	94	8.229	8.252	(0.947)	279288	10.0000	9.719
$	5	2-Chlorophenol-d4	132	8.388	8.393	(0.965)	210444	10.0000	9.370
	4	Bis(2-Chloroethyl)ether	93	8.341	8.352	(0.959)	199065	10.0000	9.541
	6	2-Chlorophenol	128	8.412	8.423	(0.968)	264045	10.0000	9.978
	7	1,3-Dichlorobenzene	146	8.635	8.640	(0.993)	290331	10.0000	9.556
*	8	1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	386803	20.0000	
	9	1,4-Dichlorobenzene	146	8.717	8.722	(1.003)	296132	10.0000	9.685
$	10	1,2-Dichlorobenzene-d4	152	8.993	8.998	(1.034)	155193	10.0000	8.951
	12	1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	273270	10.0000	9.561
	11	Benzyl alcohol	108	8.952	8.969	(1.030)	154068	10.0000	9.323
	14	2,2'-oxybis(1-Chloropropane)	45	9.205	9.216	(1.059)	191814	10.0000	9.459
	13	2-Methylphenol	108	9.164	9.181	(1.054)	215302	10.0000	10.35
	17	Hexachloroethane	117	9.504	9.509	(1.093)	107610	10.0000	9.788
	16	N-Nitroso-di-n-propylamine	70	9.422	9.445	(1.084)	139869	10.0000	9.611
	15	4-Methylphenol	108	9.393	9.415	(1.080)	216352	10.0000	9.995
$	18	Nitrobenzene-d5	82	9.616	9.627	(0.895)	207435	10.0000	9.663
	19	Nitrobenzene	77	9.645	9.662	(0.898)	213986	10.0000	9.758
	20	Isophorone	82	10.015	10.038	(0.932)	349735	10.0000	9.760
	21	2-Nitrophenol	139	10.162	10.173	(0.946)	135384	10.0000	11.08
	22	2,4-Dimethylphenol	107	10.239	10.256	(0.953)	245541	10.0000	10.32
	23	Bis(2-Chloroethoxy)methane	93	10.391	10.408	(0.967)	242519	10.0000	9.686
	24	Benzoic acid	105	10.397	10.567	(0.968)	295968	20.0000	23.88
	25	2,4-Dichlorophenol	162	10.538	10.549	(0.981)	215361	10.0000	11.06
	26	1,2,4-Trichlorobenzene	180	10.679	10.684	(0.994)	225136	10.0000	9.740
*	27	Naphthalene-d8	136	10.744	10.749	(1.000)	1330824	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.773	10.784	(1.003)	675065	10.0000	9.468
	29 4-Chloroaniline	127	10.896	10.908	(1.014)	267945	10.0000	10.10
	30 Hexachlorobutadiene	225	11.084	11.084	(1.032)	128941	10.0000	9.747
	31 4-Chloro-3-methylphenol	107	11.690	11.701	(1.088)	198573	10.0000	11.57
	32 2-Methylnaphthalene	142	11.895	11.906	(1.107)	441444	10.0000	9.604
	33 Hexachlorocyclopentadiene	237	12.277	12.282	(0.901)	115371	10.0000	10.84
	34 2,4,6-Trichlorophenol	196	12.400	12.411	(0.910)	149916	10.0000	10.75
	35 2,4,5-Trichlorophenol	196	12.459	12.470	(0.914)	153093	10.0000	11.64
$	36 2-Fluorobiphenyl	172	12.535	12.541	(0.920)	472954	10.0000	8.873
	37 2-Chloronaphthalene	162	12.682	12.699	(0.931)	448480	10.0000	9.592
	38 2-Nitroaniline	65	12.906	12.923	(0.947)	90139	10.0000	12.19
	39 Dimethylphthalate	163	13.264	13.287	(0.973)	531928	10.0000	9.727
	40 Acenaphthylene	152	13.370	13.381	(0.981)	706222	10.0000	9.638
	41 2,6-Dinitrotoluene	165	13.364	13.387	(0.981)	120276	10.0000	10.93
*	42 Acenaphthene-d10	164	13.628	13.633	(1.000)	805701	20.0000	
	43 3-Nitroaniline	138	13.587	13.610	(0.997)	117521	10.0000	10.53
	44 Acenaphthene	153	13.675	13.686	(1.003)	447973	10.0000	9.653
	45 2,4-Dinitrophenol	184	13.751	13.780	(1.009)	84130	20.0000	29.59
	46 Dibenzofuran	168	13.939	13.951	(1.023)	603633	10.0000	9.696
	47 4-Nitrophenol	109	13.857	13.880	(1.017)	72927	10.0000	10.99
	48 2,4-Dinitrotoluene	165	13.998	14.021	(1.027)	161965	10.0000	11.57
	50 Diethylphthalate	149	14.421	14.438	(1.058)	568753	10.0000	9.730
	49 Fluorene	166	14.497	14.514	(1.064)	529962	10.0000	9.720
	51 4-Chlorophenyl-phenylether	204	14.509	14.514	(1.065)	248604	10.0000	9.602
	52 4-Nitroaniline	138	14.586	14.626	(1.070)	109583	10.0000	9.797
	53 4,6-Dinitro-2-methylphenol	198	14.662	14.697	(0.915)	167601	20.0000	23.46
	54 N-Nitrosodiphenylamine	169	14.709	14.732	(0.918)	390380	10.0000	10.02
$	55 2,4,6-Tribromophenol	330	14.920	14.937	(1.095)	56765	10.0000	10.67
	56 4-Bromophenyl-phenylether	248	15.296	15.308	(0.955)	140953	10.0000	10.15
	57 Hexachlorobenzene	284	15.537	15.548	(0.970)	142687	10.0000	9.639
	58 Pentachlorophenol	266	15.825	15.842	(0.988)	92866	10.0000	10.64
*	59 Phenanthrene-d10	188	16.025	16.036	(1.000)	1335679	20.0000	
	60 Phenanthrene	178	16.060	16.077	(1.002)	723729	10.0000	9.474
	61 Anthracene	178	16.136	16.153	(1.007)	750646	10.0000	9.636
	62 Carbazole	167	16.407	16.424	(1.024)	660077	10.0000	9.431
	63 Di-n-butylphthalate	149	17.088	17.093	(1.066)	906961	10.0000	9.993
	64 Fluoranthene	202	18.016	18.027	(1.124)	764738	10.0000	9.875
	65 Pyrene	202	18.380	18.397	(0.902)	787792	10.0000	9.358
$	66 Terphenyl-d14	244	18.662	18.674	(0.916)	448627	10.0000	8.916
	67 Butylbenzylphthalate	149	19.532	19.543	(0.958)	418550	10.0000	10.64
	68 Benzo(a)anthracene	228	20.348	20.365	(0.999)	750485	10.0000	9.673
*	69 Chrysene-d12	240	20.378	20.389	(1.000)	1209826	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.337	20.348	(0.998)	255812	10.0000	10.62
	71 Chrysene	228	20.413	20.436	(1.002)	734332	10.0000	9.591
	72 bis(2-Ethylhexyl)phthalate	149	20.513	20.518	(0.956)	588126	10.0000	10.78
*	134 Di-n-octylphthalate-d4	153	21.447	21.458	(1.000)	1905755	20.0000	
	73 Di-n-octylphthalate	149	21.459	21.470	(1.001)	1013433	10.0000	9.438

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.017	22.040	(0.975)	783710	10.0000	9.824
75	Benzo(k)fluoranthene	252	22.046	22.075	(0.977)	795376	10.0000	9.609
187	Total Benzofluoranthenes	252	22.046	22.075	(0.977)	1484981	20.0000	19.37
76	Benzo(a)pyrene	252	22.481	22.510	(0.996)	675517	10.0000	9.782
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1193862	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.413	24.454	(1.081)	713289	10.0000	10.60
79	Dibenzo(a,h)anthracene	278	24.431	24.477	(1.082)	577618	10.0000	10.96
80	Benzo(g,h,i)perylene	276	24.936	24.989	(1.105)	629032	10.0000	10.91
90	N-Nitrosodimethylamine	74	4.276	4.281	(0.492)	109696	10.0000	9.377
103	Pyridine	79	4.258	4.240	(0.490)	201572	10.0000	10.79
91	Aniline	93	8.241	8.252	(0.948)	288356	10.0000	9.513
105	1-methylnaphthalene	142	12.071	12.082	(1.124)	428993	10.0000	9.576
93	Benzidine	184	18.245	18.251	(0.895)	250888	10.0000	9.765
111	Azobenzene (1,2-DP-Hydrazine)	77	14.762	14.779	(1.083)	427139	10.0000	9.774
143	1,4-Dioxane	88	3.512	3.494	(0.404)	74401	10.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	76835	10.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.236	12.247	(0.898)	205530	10.0000	9.197
120	2,3,4,6-Tetrachlorophenol	232	14.210	14.221	(1.043)	123547	10.0000	10.87
144	alpha-Terpineol	59	10.773	10.790	(1.003)	115158	10.0000	9.287
98	Retene	219	18.921	18.932	(0.928)	253770	10.0000	9.689
133	Butylatedhydroxytoluene	205	13.763	13.774	(1.010)	400152	10.0000	9.222
115	Tributyl Phosphate	99	14.768	14.802	(0.922)	550197	10.0000	10.06
116	Dibutyl Phenyl Phosphate	175	16.524	16.535	(1.031)	428511	10.0000	10.07
117	Butyl Diphenyl Phosphate	94	18.234	18.245	(0.895)	121912	10.0000	9.952
118	Triphenyl Phosphate	326	19.855	19.866	(0.974)	122543	10.0000	9.898
123	Acetophenone	105	9.375	9.392	(0.873)	298771	10.0000	9.971
179	n-Decane	57	8.500	8.505	(0.978)	160692	10.0000	9.679
180	n-Octadecane	57	15.878	15.883	(0.991)	200941	10.0000	9.943
168	Pentachlorobenzene	250	13.981	13.992	(1.026)	169400	10.0000	9.608
113	Diphenyl Oxide	170	12.864	12.870	(0.944)	439084	10.0000	9.312
112	Biphenyl	154	12.671	12.682	(0.930)	521643	10.0000	9.492
110	Tetrachloroguaiacol	247	15.948	15.971	(0.995)	158817	20.0000	20.61
109	3,4,5-Trichloroguaiacol	213	14.304	14.315	(0.893)	82226	10.0000	10.74
181	3,4,6-Trichloroguaiacol	211	14.427	14.444	(0.900)	98454	10.0000	10.82
108	4,5,6-Trichloroguaiacol	213	15.338	15.349	(0.957)	85057	10.0000	10.73
184	3,4-Dichloroguaiacol	192	12.753	12.764	(0.936)	81053	10.0000	10.34
107	4,5-Dichloroguaiacol	192	13.528	13.545	(0.993)	114248	10.0000	10.68
182	4,6-Dichloroguaiacol	192	13.563	13.580	(0.995)	102418	10.0000	9.886
185	4-Chloroguaiacol	115	11.648	11.660	(1.340)	56264	5.00000	5.254
106	Guaiacol	124	9.633	9.645	(1.108)	201151	10.0000	9.466

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191004.d
Lab Smp Id: IC100719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC100719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	386803	8.51
27 Naphthalene-d8	1293412	646706	2586824	1330824	2.89
42 Acenaphthene-d10	785897	392948	1571794	805701	2.52
59 Phenanthrene-d10	1313990	656995	2627980	1335679	1.65
69 Chrysene-d12	1155293	577646	2310586	1209826	4.72
134 Di-n-octylphthala	1825297	912648	3650594	1905755	4.41
77 Perylene-d12	1146289	573144	2292578	1193862	4.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.05
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.01
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.01
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.03
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.02
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.02
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.02

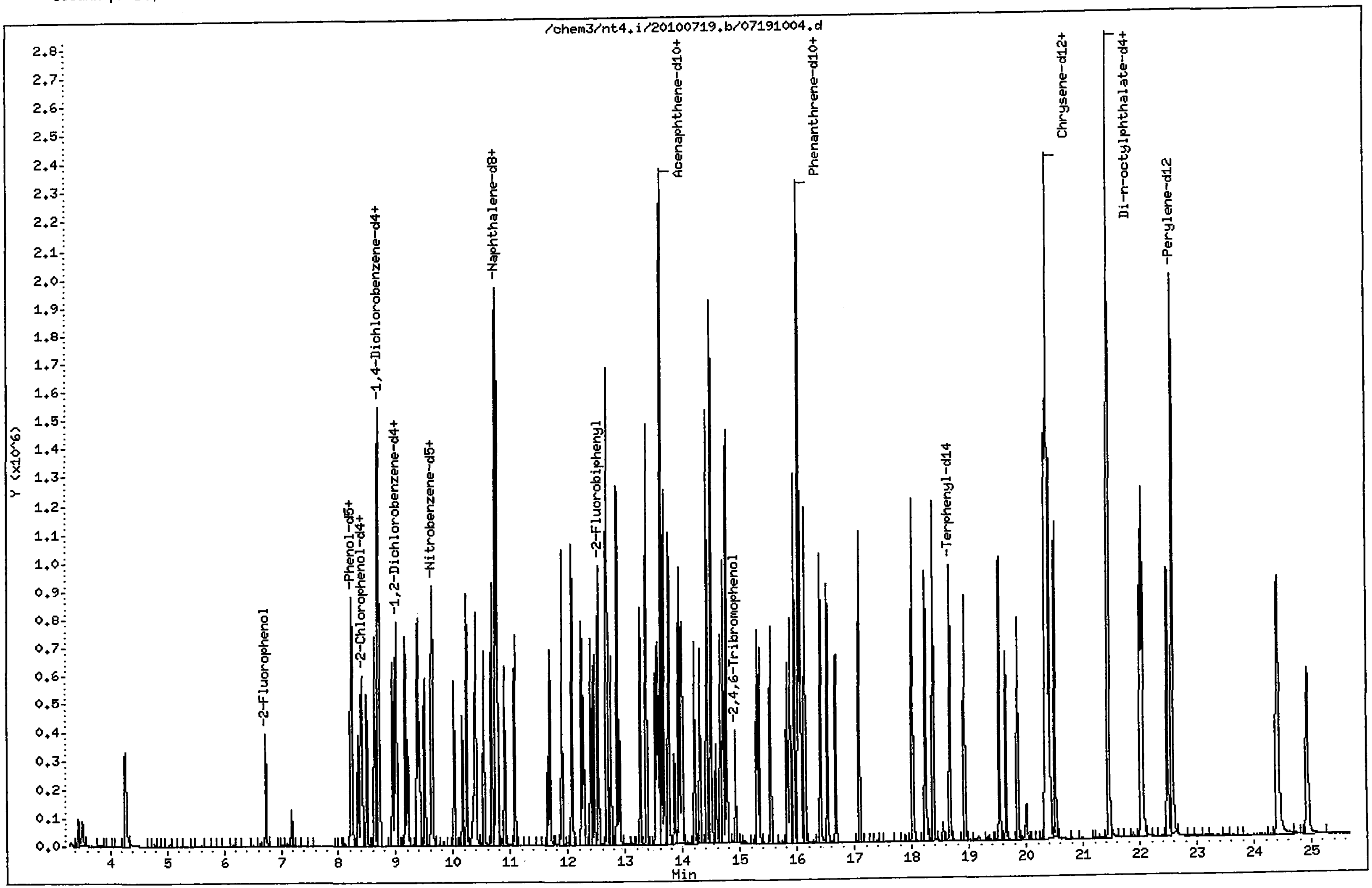
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191004.d
Date : 19-JUL-2010 18:07
Client ID: IC100719
Sample Info: IC100719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191001.d
Lab Smp Id: IC250719 Client Smp ID: IC250719
Inj Date : 19-JUL-2010 16:18
Operator : JZ Inst ID: nt4.i
Smp Info : IC250719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:18 Cal File: 07191001.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.737	(0.774)	509094	25.0000	25.72
$	2 Phenol-d5	99	8.216	8.229	(0.945)	502390	25.0000	25.87
	3 Phenol	94	8.234	8.252	(0.947)	633003	25.0000	24.17
$	5 2-Chlorophenol-d4	132	8.387	8.393	(0.964)	529269	25.0000	25.43
	4 Bis(2-Chloroethyl)ether	93	8.346	8.352	(0.959)	456355	25.0000	24.04
	6 2-Chlorophenol	128	8.416	8.423	(0.968)	608173	25.0000	24.95
	7 1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	660365	25.0000	23.92
*	8 1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	356478	20.0000	
	9 1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	671032	25.0000	24.10
$	10 1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	379735	25.0000	24.06
	12 1,2-Dichlorobenzene	146	9.015	9.022	(1.036)	618747	25.0000	23.85
	11 Benzyl alcohol	108	8.956	8.969	(1.030)	349815	25.0000	23.61
	14 2,2'-oxybis(1-Chloropropane)	45	9.209	9.216	(1.059)	428872	25.0000	23.43
	13 2-Methylphenol	108	9.174	9.181	(1.055)	489525	25.0000	25.40
	17 Hexachloroethane	117	9.509	9.509	(1.093)	249727	25.0000	24.73
	16 N-Nitroso-di-n-propylamine	70	9.426	9.445	(1.084)	318375	25.0000	24.04
	15 4-Methylphenol	108	9.397	9.415	(1.080)	504582	25.0000	25.22
$	18 Nitrobenzene-d5	82	9.620	9.627	(0.896)	514519	25.0000	24.74
	19 Nitrobenzene	77	9.650	9.662	(0.898)	489280	25.0000	23.44
	20 Isophorone	82	10.026	10.038	(0.933)	813652	25.0000	23.75
	21 2-Nitrophenol	139	10.167	10.173	(0.946)	334369	25.0000	27.29
	22 2,4-Dimethylphenol	107	10.243	10.256	(0.954)	572473	25.0000	24.81
	23 Bis(2-Chloroethoxy)methane	93	10.396	10.408	(0.968)	576503	25.0000	24.00
	24 Benzoic acid	105	10.466	10.567	(0.974)	865635	50.0000	62.72
	25 2,4-Dichlorophenol	162	10.543	10.549	(0.981)	527621	25.0000	27.09
	26 1,2,4-Trichlorobenzene	180	10.684	10.684	(0.995)	536705	25.0000	24.16
*	27 Naphthalene-d8	136	10.742	10.749	(1.000)	1293412	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.778	10.784	(1.003)	1556045	25.0000	23.04
	29 4-Chloroaniline	127	10.901	10.908	(1.015)	637156	25.0000	24.79
	30 Hexachlorobutadiene	225	11.083	11.084	(1.032)	301348	25.0000	23.81
	31 4-Chloro-3-methylphenol	107	11.694	11.701	(1.089)	500175	25.0000	28.57
	32 2-Methylnaphthalene	142	11.900	11.906	(1.108)	1050247	25.0000	23.86
	33 Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	313309	25.0000	28.24
	34 2,4,6-Trichlorophenol	196	12.405	12.411	(0.910)	377521	25.0000	27.01
	35 2,4,5-Trichlorophenol	196	12.463	12.470	(0.915)	403239	25.0000	29.54
$	36 2-Fluorobiphenyl	172	12.540	12.541	(0.920)	1236271	25.0000	24.07
	37 2-Chloronaphthalene	162	12.687	12.699	(0.931)	1084794	25.0000	24.08
	38 2-Nitroaniline	65	12.910	12.923	(0.947)	233355	25.0000	30.14
	39 Dimethylphthalate	163	13.268	13.287	(0.974)	1257560	25.0000	23.92
	40 Acenaphthylene	152	13.374	13.381	(0.981)	1642937	25.0000	23.46
	41 2,6-Dinitrotoluene	165	13.374	13.387	(0.981)	299507	25.0000	27.11
*	42 Acenaphthene-d10	164	13.627	13.633	(1.000)	785897	20.0000	
	43 3-Nitroaniline	138	13.591	13.610	(0.997)	270236	25.0000	24.87
	44 Acenaphthene	153	13.679	13.686	(1.004)	1047303	25.0000	23.58
	45 2,4-Dinitrophenol	184	13.756	13.780	(1.009)	317048	50.0000	80.02
	46 Dibenzofuran	168	13.944	13.951	(1.023)	1398933	25.0000	23.50
	47 4-Nitrophenol	109	13.867	13.880	(1.018)	191448	25.0000	27.88
	48 2,4-Dinitrotoluene	165	14.008	14.021	(1.028)	397346	25.0000	27.96
	50 Diethylphthalate	149	14.431	14.438	(1.059)	1294538	25.0000	23.24
	49 Fluorene	166	14.508	14.514	(1.065)	1237613	25.0000	23.68
	51 4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	591928	25.0000	23.81
	52 4-Nitroaniline	138	14.596	14.626	(1.071)	259237	25.0000	24.06
	53 4,6-Dinitro-2-methylphenol	198	14.672	14.697	(0.915)	487973	50.0000	61.47
	54 N-Nitrosodiphenylamine	169	14.713	14.732	(0.918)	928356	25.0000	24.41
$	55 2,4,6-Tribromophenol	330	14.931	14.937	(1.096)	153201	25.0000	28.25
	56 4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	337061	25.0000	24.76
	57 Hexachlorobenzene	284	15.542	15.548	(0.970)	336992	25.0000	23.58
	58 Pentachlorophenol	266	15.830	15.842	(0.988)	246760	25.0000	27.37
*	59 Phenanthrene-d10	188	16.029	16.036	(1.000)	1313990	20.0000	
	60 Phenanthrene	178	16.064	16.077	(1.002)	1705790	25.0000	23.23
	61 Anthracene	178	16.141	16.153	(1.007)	1764147	25.0000	23.48
	62 Carbazole	167	16.411	16.424	(1.024)	1555593	25.0000	23.15
	63 Di-n-butylphthalate	149	17.093	17.093	(1.066)	2121495	25.0000	24.06
	64 Fluoranthene	202	18.021	18.027	(1.124)	1808894	25.0000	24.05
	65 Pyrene	202	18.385	18.397	(0.902)	1867259	25.0000	23.65
$	66 Terphenyl-d14	244	18.667	18.674	(0.916)	1158832	25.0000	24.33
	67 Butylbenzylphthalate	149	19.536	19.543	(0.958)	970822	25.0000	25.62
	68 Benzo(a)anthracene	228	20.353	20.365	(0.999)	1698446	25.0000	23.41
*	69 Chrysene-d12	240	20.382	20.389	(1.000)	1155293	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.341	20.348	(0.998)	576157	25.0000	25.04
	71 Chrysene	228	20.423	20.436	(1.002)	1672513	25.0000	23.37
	72 bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	1334441	25.0000	25.41
*	134 Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1825297	20.0000	
	73 Di-n-octylphthalate	149	21.463	21.470	(1.001)	2271687	25.0000	22.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.021	22.040	(0.975)	1734852	25.0000	23.19
75	Benzo(k)fluoranthene	252	22.056	22.075	(0.977)	1915421	25.0000	24.32
187	Total Benzofluoranthenes	252	22.056	22.075	(0.977)	3436118	50.0000	47.47
76	Benzo(a)pyrene	252	22.491	22.510	(0.996)	1612522	25.0000	24.49
* 77	Perylene-d12	264	22.579	22.580	(1.000)	1146289	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.424	24.454	(1.082)	1783402	25.0000	26.89
79	Dibenzo(a,h)anthracene	278	24.447	24.477	(1.083)	1472138	25.0000	27.94
80	Benzo(g,h,i)perylene	276	24.958	24.989	(1.105)	1499429	25.0000	26.53
90	N-Nitrosodimethylamine	74	4.280	4.281	(0.492)	258666	25.0000	24.24
103	Pyridine	79	4.251	4.240	(0.489)	474630	25.0000	26.87
91	Aniline	93	8.246	8.252	(0.948)	641945	25.0000	23.45
105	1-methylnaphthalene	142	12.076	12.082	(1.124)	1026237	25.0000	23.91
93	Benzidine	184	18.250	18.251	(0.895)	500943	25.0000	21.40
111	Azobenzene (1,2-DP-Hydrazine)	77	14.766	14.779	(1.084)	965964	25.0000	23.20
143	1,4-Dioxane	88	3.511	3.494	(0.404)	171754	25.0000	
$ 137	d8-1,4-Dioxane	96	3.440	3.424	(0.396)	177040	25.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.240	12.247	(0.898)	514416	25.0000	23.93
120	2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	321030	25.0000	27.86
144	alpha-Terpineol	59	10.783	10.790	(1.004)	272097	25.0000	23.14
98	Retene	219	18.925	18.932	(0.929)	632122	25.0000	25.20
133	Butylatedhydroxytoluene	205	13.768	13.774	(1.010)	959628	25.0000	23.21
115	Tributyl Phosphate	99	14.778	14.802	(0.922)	1270123	25.0000	23.94
116	Dibutyl Phenyl Phosphate	175	16.529	16.535	(1.031)	1078412	25.0000	25.56
117	Butyl Diphenyl Phosphate	94	18.238	18.245	(0.895)	316769	25.0000	26.53
118	Triphenyl Phosphate	326	19.859	19.866	(0.974)	303151	25.0000	25.48
123	Acetophenone	105	9.379	9.392	(0.873)	677189	25.0000	23.67
179	n-Decane	57	8.498	8.505	(0.977)	358983	25.0000	23.83
180	n-Octadecane	57	15.876	15.883	(0.990)	455513	25.0000	23.40
168	Pentachlorobenzene	250	13.985	13.992	(1.026)	401776	25.0000	23.75
113	Diphenyl Oxide	170	12.863	12.870	(0.944)	1050883	25.0000	23.35
112	Biphenyl	154	12.675	12.682	(0.930)	1229577	25.0000	23.42
110	Tetrachloroguaiacol	247	15.959	15.971	(0.996)	400470	50.0000	52.09
109	3,4,5-Trichloroguaiacol	213	14.308	14.315	(0.893)	204465	25.0000	26.58
181	3,4,6-Trichloroguaiacol	211	14.431	14.444	(0.900)	243206	25.0000	26.59
108	4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	212755	25.0000	26.67
184	3,4-Dichloroguaiacol	192	12.757	12.764	(0.936)	210509	25.0000	26.84
107	4,5-Dichloroguaiacol	192	13.539	13.545	(0.994)	282749	25.0000	26.54
182	4,6-Dichloroguaiacol	192	13.568	13.580	(0.996)	265540	25.0000	25.95
185	4-Chloroguaiacol	115	11.653	11.660	(1.340)	145555	12.5000	14.11
106	Guaiacol	124	9.638	9.645	(1.108)	478994	25.0000	24.59

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191001.d
Lab Smp Id: IC250719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC250719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	356478	0.00
27 Naphthalene-d8	1293412	646706	2586824	1293412	0.00
42 Acenaphthene-d10	785897	392948	1571794	785897	0.00
59 Phenanthrene-d10	1313990	656995	2627980	1313990	0.00
69 Chrysene-d12	1155293	577646	2310586	1155293	0.00
134 Di-n-octylphthala	1825297	912648	3650594	1825297	0.00
77 Perylene-d12	1146289	573144	2292578	1146289	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.00
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.00
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

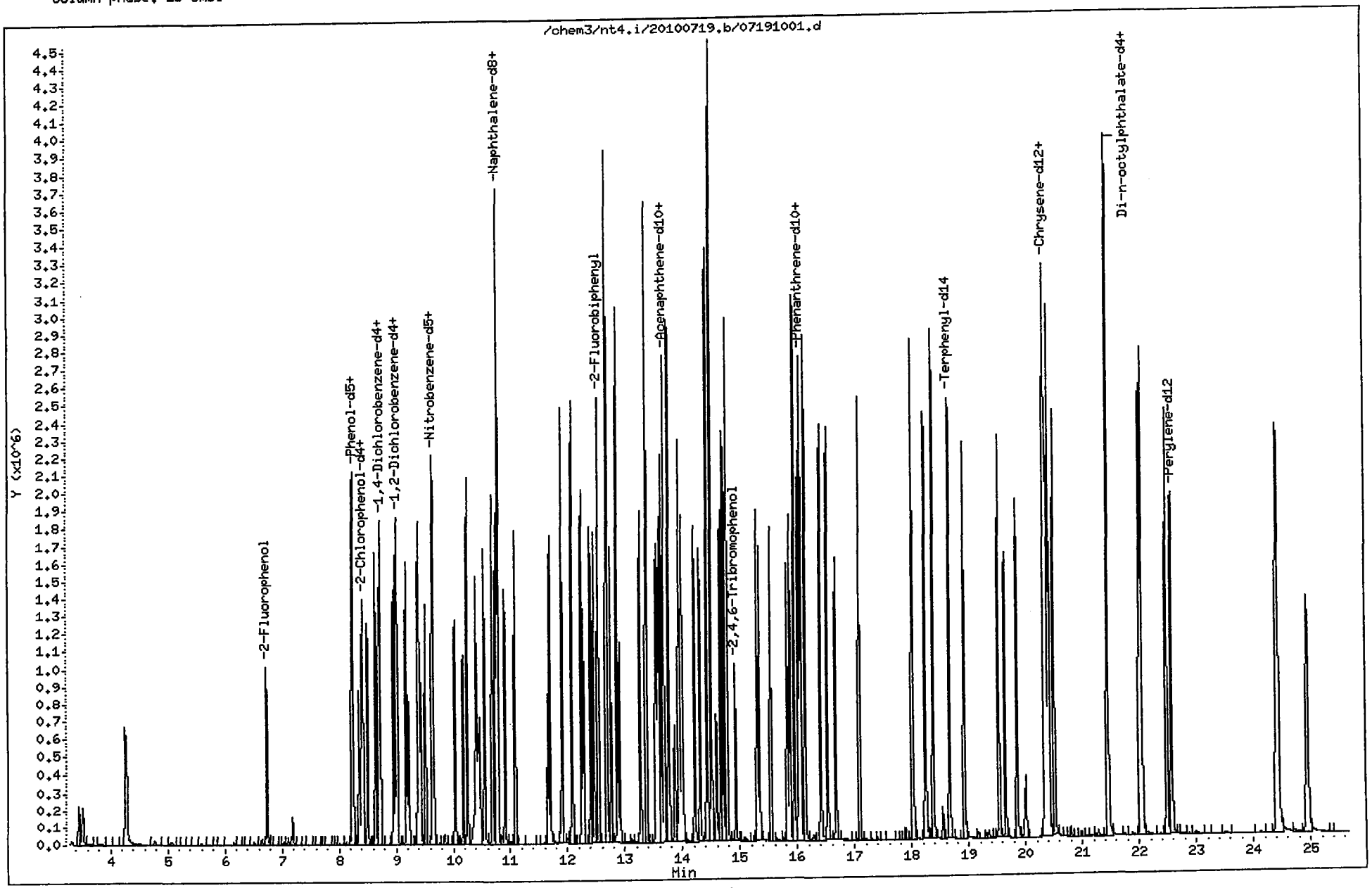
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191001.d
Date : 19-JUL-2010 16:18
Client ID: IC250719
Sample Info: IC250719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RGSL:00863

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191005.d
Lab Smp Id: IC400719 Client Smp ID: IC400719
Inj Date : 19-JUL-2010 18:41
Operator : JZ Inst ID: nt4.i
Smp Info : IC400719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:41 Cal File: 07191005.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.738	6.737	(0.775)	805836	40.0000	38.46
$	2 Phenol-d5	99	8.224	8.229	(0.946)	800887	40.0000	38.86
	3 Phenol	94	8.242	8.252	(0.948)	970435	40.0000	35.61
$	5 2-Chlorophenol-d4	132	8.395	8.393	(0.966)	851467	40.0000	38.60
	4 Bis(2-Chloroethyl)ether	93	8.348	8.352	(0.960)	765819	40.0000	38.17
	6 2-Chlorophenol	128	8.418	8.423	(0.968)	939854	40.0000	36.80
	7 1,3-Dichlorobenzene	146	8.636	8.640	(0.993)	1102160	40.0000	37.86
*	8 1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	381018	20.0000	
	9 1,4-Dichlorobenzene	146	8.724	8.722	(1.003)	1123923	40.0000	38.19
$	10 1,2-Dichlorobenzene-d4	152	9.000	8.998	(1.035)	620692	40.0000	37.40
	12 1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	1045036	40.0000	38.13
	11 Benzyl alcohol	108	8.959	8.969	(1.030)	560984	40.0000	36.47
	14 2,2'-oxybis(1-Chloropropane)	45	9.211	9.216	(1.059)	703825	40.0000	36.71
	13 2-Methylphenol	108	9.176	9.181	(1.055)	768962	40.0000	37.84
	17 Hexachloroethane	117	9.511	9.509	(1.094)	422293	40.0000	39.30
	16 N-Nitroso-di-n-propylamine	70	9.434	9.445	(1.085)	535476	40.0000	38.25
	15 4-Methylphenol	108	9.405	9.415	(1.082)	798691	40.0000	37.85
$	18 Nitrobenzene-d5	82	9.622	9.627	(0.896)	826176	40.0000	38.67
	19 Nitrobenzene	77	9.652	9.662	(0.898)	805687	40.0000	37.76
	20 Isophorone	82	10.028	10.038	(0.933)	1335102	40.0000	38.07
	21 2-Nitrophenol	139	10.169	10.173	(0.946)	520600	40.0000	40.81
	22 2,4-Dimethylphenol	107	10.245	10.256	(0.954)	878355	40.0000	37.35
	23 Bis(2-Chloroethoxy)methane	93	10.398	10.408	(0.968)	928673	40.0000	37.83
	24 Benzoic acid	105	10.509	10.567	(0.978)	1401298	80.0000	92.78
	25 2,4-Dichlorophenol	162	10.545	10.549	(0.981)	807406	40.0000	40.01
	26 1,2,4-Trichlorobenzene	180	10.680	10.684	(0.994)	883928	40.0000	38.71
*	27 Naphthalene-d8	136	10.744	10.749	(1.000)	1340154	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.780	10.784	(1.003)	2403128	40.0000	35.34
	29 4-Chloroaniline	127	10.903	10.908	(1.015)	1000805	40.0000	38.04
	30 Hexachlorobutadiene	225	11.085	11.084	(1.032)	502639	40.0000	38.65
	31 4-Chloro-3-methylphenol	107	11.696	11.701	(1.089)	765878	40.0000	41.76
	32 2-Methylnaphthalene	142	11.902	11.906	(1.108)	1711633	40.0000	38.00
	33 Hexachlorocyclopentadiene	237	12.278	12.282	(0.901)	553109	40.0000	44.81
	34 2,4,6-Trichlorophenol	196	12.407	12.411	(0.910)	605024	40.0000	40.43
	35 2,4,5-Trichlorophenol	196	12.466	12.470	(0.915)	647741	40.0000	43.47
$	36 2-Fluorobiphenyl	172	12.536	12.541	(0.920)	1951425	40.0000	36.38
	37 2-Chloronaphthalene	162	12.689	12.699	(0.931)	1782192	40.0000	37.60
	38 2-Nitroaniline	65	12.912	12.923	(0.947)	385828	40.0000	45.16
	39 Dimethylphthalate	163	13.276	13.287	(0.974)	2076257	40.0000	37.54
	40 Acenaphthylene	152	13.376	13.381	(0.981)	2618537	40.0000	35.91
	41 2,6-Dinitrotoluene	165	13.376	13.387	(0.981)	506024	40.0000	42.28
*	42 Acenaphthene-d10	164	13.629	13.633	(1.000)	839318	20.0000	
	43 3-Nitroaniline	138	13.599	13.610	(0.998)	411097	40.0000	36.26
	44 Acenaphthene	153	13.682	13.686	(1.004)	1730659	40.0000	37.13
	45 2,4-Dinitrophenol	184	13.764	13.780	(1.010)	599293	80.0000	118.8
	46 Dibenzofuran	168	13.946	13.951	(1.023)	2282796	40.0000	36.65
	47 4-Nitrophenol	109	13.870	13.880	(1.018)	324791	40.0000	43.13
	48 2,4-Dinitrotoluene	165	14.011	14.021	(1.028)	682861	40.0000	43.90
	50 Diethylphthalate	149	14.434	14.438	(1.059)	2127981	40.0000	36.54
	49 Fluorene	166	14.510	14.514	(1.065)	1979735	40.0000	36.29
	51 4-Chlorophenyl-phenylether	204	14.516	14.514	(1.065)	980934	40.0000	37.52
	52 4-Nitroaniline	138	14.610	14.626	(1.072)	465525	40.0000	40.36
	53 4,6-Dinitro-2-methylphenol	198	14.680	14.697	(0.916)	814156	80.0000	92.95
	54 N-Nitrosodiphenylamine	169	14.721	14.732	(0.918)	1558783	40.0000	39.41
$	55 2,4,6-Tribromophenol	330	14.933	14.937	(1.096)	249842	40.0000	42.47
	56 4-Bromophenyl-phenylether	248	15.303	15.308	(0.955)	565124	40.0000	39.82
	57 Hexachlorobenzene	284	15.544	15.548	(0.970)	559987	40.0000	38.00
	58 Pentachlorophenol	266	15.832	15.842	(0.988)	393069	40.0000	41.31
*	59 Phenanthrene-d10	188	16.031	16.036	(1.000)	1371590	20.0000	
	60 Phenanthrene	178	16.073	16.077	(1.003)	2705033	40.0000	36.15
	61 Anthracene	178	16.143	16.153	(1.007)	2803865	40.0000	36.53
	62 Carbazole	167	16.413	16.424	(1.024)	2542023	40.0000	36.93
	63 Di-n-butylphthalate	149	17.095	17.093	(1.066)	3260353	40.0000	36.25
	64 Fluoranthene	202	18.023	18.027	(1.124)	2935696	40.0000	37.88
	65 Pyrene	202	18.387	18.397	(0.902)	3025660	40.0000	35.90
$	66 Terphenyl-d14	244	18.669	18.674	(0.916)	1839228	40.0000	36.14
	67 Butylbenzylphthalate	149	19.538	19.543	(0.958)	1646877	40.0000	39.77
	68 Benzo(a)anthracene	228	20.361	20.365	(0.999)	2823099	40.0000	36.36
*	69 Chrysene-d12	240	20.384	20.389	(1.000)	1264495	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.343	20.348	(0.998)	950636	40.0000	38.18
	71 Chrysene	228	20.425	20.436	(1.002)	2729145	40.0000	35.77
	72 bis(2-Ethylhexyl)phthalate	149	20.514	20.518	(0.956)	2243796	40.0000	40.79
*	134 Di-n-octylphthalate-d4	153	21.453	21.458	(1.000)	1902533	20.0000	
	73 Di-n-octylphthalate	149	21.465	21.470	(1.001)	3553588	40.0000	35.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.029	22.040	(0.976)	2935610	40.0000	37.62
75	Benzo(k)fluoranthene	252	22.064	22.075	(0.977)	2948453	40.0000	36.19
187	Total Benzofluoranthenes	252	22.064	22.075	(0.977)	5543714	80.0000	73.74
76	Benzo(a)pyrene	252	22.499	22.510	(0.997)	2634243	40.0000	38.20
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1213809	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.438	24.454	(1.082)	3062042	40.0000	42.84
79	Dibenzo(a,h)anthracene	278	24.455	24.477	(1.083)	2520948	40.0000	44.05
80	Benzo(g,h,i)perylene	276	24.972	24.989	(1.106)	2618046	40.0000	42.94
90	N-Nitrosodimethylamine	74	4.288	4.281	(0.493)	430140	40.0000	38.14
103	Pyridine	79	4.253	4.240	(0.489)	798092	40.0000	41.80
91	Aniline	93	8.248	8.252	(0.949)	1030671	40.0000	36.09
105	1-methylnaphthalene	142	12.078	12.082	(1.124)	1690741	40.0000	38.40
93	Benzidine	184	18.252	18.251	(0.895)	836928	40.0000	33.91
111	Azobenzene (1,2-DP-Hydrazine)	77	14.774	14.779	(1.084)	1574216	40.0000	36.24
143	1,4-Dioxane	88	3.513	3.494	(0.404)	291223	40.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	303363	40.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.242	12.247	(0.898)	837944	40.0000	37.15
120	2,3,4,6-Tetrachlorophenol	232	14.216	14.221	(1.043)	530279	40.0000	42.44
144	alpha-Terpineol	59	10.786	10.790	(1.004)	410363	40.0000	34.78
98	Retene	219	18.927	18.932	(0.929)	1052055	40.0000	38.65
133	Butylatedhydroxytoluene	205	13.770	13.774	(1.010)	1500329	40.0000	35.04
115	Tributyl Phosphate	99	14.792	14.802	(0.923)	2023303	40.0000	37.18
116	Dibutyl Phenyl Phosphate	175	16.531	16.535	(1.031)	1701062	40.0000	38.89
117	Butyl Diphenyl Phosphate	94	18.240	18.245	(0.895)	517626	40.0000	39.68
118	Triphenyl Phosphate	326	19.861	19.866	(0.974)	498877	40.0000	38.63
123	Acetophenone	105	9.382	9.392	(0.873)	1136208	40.0000	38.65
179	n-Decane	57	8.500	8.505	(0.978)	590284	40.0000	37.28
180	n-Octadecane	57	15.879	15.883	(0.990)	714571	40.0000	36.04
168	Pentachlorobenzene	250	13.987	13.992	(1.026)	676775	40.0000	37.94
113	Diphenyl Oxide	170	12.865	12.870	(0.944)	1726304	40.0000	36.67
112	Biphenyl	154	12.677	12.682	(0.930)	1990603	40.0000	36.32
110	Tetrachloroguaiacol	247	15.961	15.971	(0.996)	654310	80.0000	81.22
109	3,4,5-Trichloroguaiacol	213	14.310	14.315	(0.893)	346917	40.0000	42.53
181	3,4,6-Trichloroguaiacol	211	14.434	14.444	(0.900)	407062	40.0000	42.08
108	4,5,6-Trichloroguaiacol	213	15.344	15.349	(0.957)	357303	40.0000	42.30
184	3,4-Dichloroguaiacol	192	12.759	12.764	(0.936)	360234	40.0000	42.38
107	4,5-Dichloroguaiacol	192	13.541	13.545	(0.994)	535237	40.0000	45.44
182	4,6-Dichloroguaiacol	192	13.570	13.580	(0.996)	412019	40.0000	38.14
185	4-Chloroguaiacol	115	11.655	11.660	(1.341)	239833	20.0000	21.38
106	Guaiacol	124	9.640	9.645	(1.109)	785043	40.0000	38.14

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191005.d
Lab Smp Id: IC400719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC400719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	381018	6.88
27 Naphthalene-d8	1293412	646706	2586824	1340154	3.61
42 Acenaphthene-d10	785897	392948	1571794	839318	6.80
59 Phenanthrene-d10	1313990	656995	2627980	1371590	4.38
69 Chrysene-d12	1155293	577646	2310586	1264495	9.45
134 Di-n-octylphthala	1825297	912648	3650594	1902533	4.23
77 Perylene-d12	1146289	573144	2292578	1213809	5.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.04
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.01
77 Perylene-d12	22.58	22.08	23.08	22.58	-0.02

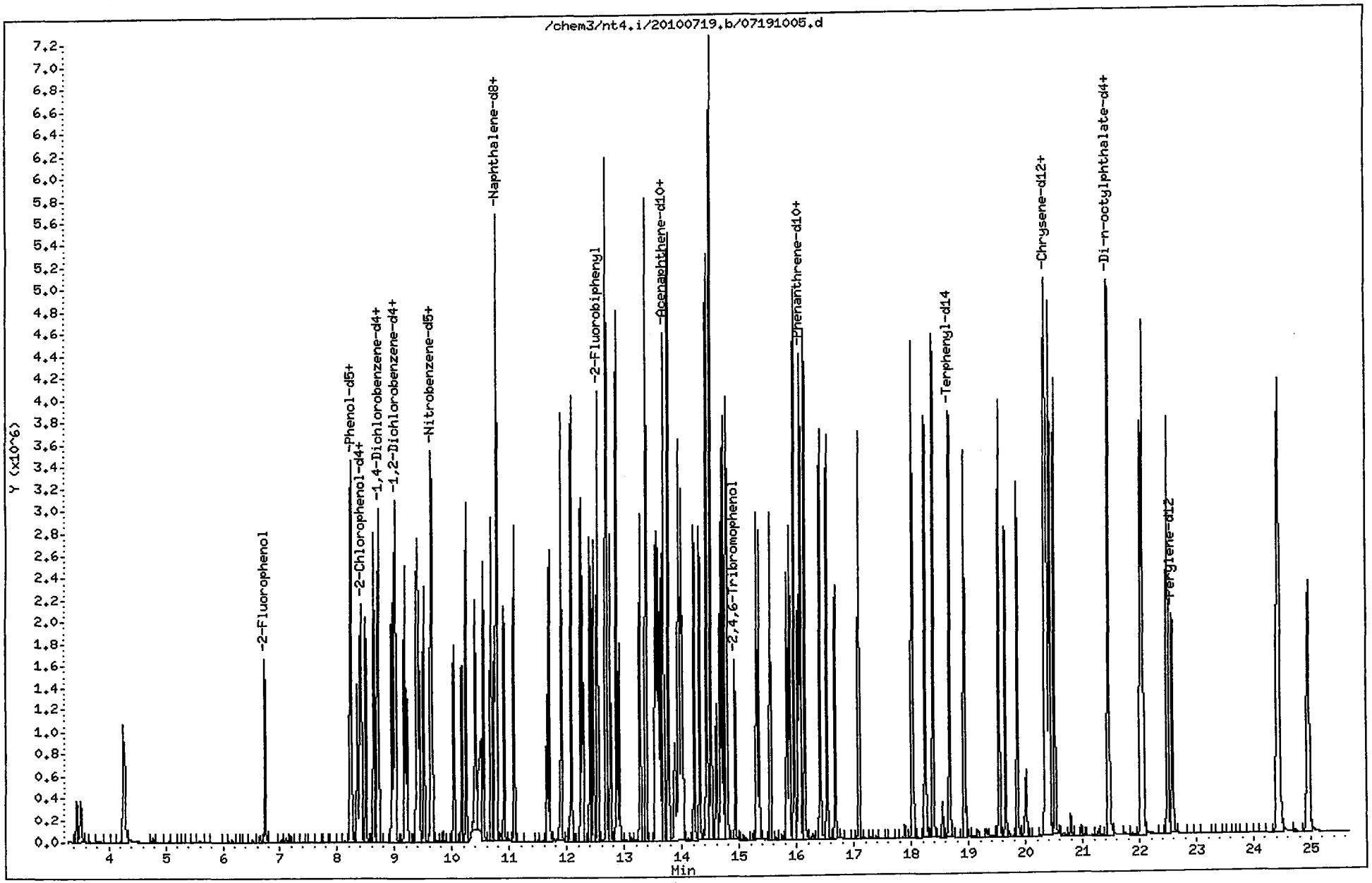
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191005.d
Date : 19-JUL-2010 18:41
Client ID: IC400719
Sample Info: IC400719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191006.d
Lab Smp Id: IC600719 Client Smp ID: IC600719
Inj Date : 19-JUL-2010 19:14
Operator : JZ Inst ID: nt4.i
Smp Info : IC600719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:14 Cal File: 07191006.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

AMOUNTS

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	6.742	6.737	(0.775)	1229938	60.0000	56.87
$	2	Phenol-d5	99	8.228	8.229	(0.946)	1203698	60.0000	56.64
	3	Phenol	94	8.251	8.252	(0.949)	1486801	60.0000	53.46
$	5	2-Chlorophenol-d4	132	8.398	8.393	(0.966)	1296594	60.0000	56.95
	4	Bis(2-Chloroethyl)ether	93	8.351	8.352	(0.960)	1136800	60.0000	55.21
	6	2-Chlorophenol	128	8.422	8.423	(0.968)	1481989	60.0000	56.33
	7	1,3-Dichlorobenzene	146	8.639	8.640	(0.993)	1637912	60.0000	54.87
*	8	1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	397320	20.0000	
	9	1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	1656413	60.0000	54.89
$	10	1,2-Dichlorobenzene-d4	152	8.997	8.998	(1.034)	951535	60.0000	55.76
	12	1,2-Dichlorobenzene	146	9.021	9.022	(1.037)	1536342	60.0000	54.70
	11	Benzyl alcohol	108	8.968	8.969	(1.031)	863804	60.0000	54.97
	14	2,2'-oxybis(1-Chloropropane)	45	9.215	9.216	(1.059)	1018933	60.0000	52.28
	13	2-Methylphenol	108	9.179	9.181	(1.055)	1210815	60.0000	57.59
	17	Hexachloroethane	117	9.508	9.509	(1.093)	632803	60.0000	57.04
	16	N-Nitroso-di-n-propylamine	70	9.444	9.445	(1.086)	798791	60.0000	55.53
	15	4-Methylphenol	108	9.414	9.415	(1.082)	1252181	60.0000	57.40
$	18	Nitrobenzene-d5	82	9.626	9.627	(0.896)	1229087	60.0000	53.83
	19	Nitrobenzene	77	9.661	9.662	(0.899)	1188709	60.0000	52.39
	20	Isophorone	82	10.037	10.038	(0.934)	2011089	60.0000	53.69
	21	2-Nitrophenol	139	10.172	10.173	(0.946)	846073	60.0000	60.67
	22	2,4-Dimethylphenol	107	10.254	10.256	(0.954)	1366838	60.0000	54.30
	23	Bis(2-Chloroethoxy)methane	93	10.407	10.408	(0.968)	1395558	60.0000	53.29
	24	Benzoic acid	105	10.560	10.567	(0.982)	2377813	120.000	138.7(M)
	25	2,4-Dichlorophenol	162	10.548	10.549	(0.981)	1299788	60.0000	59.22
	26	1,2,4-Trichlorobenzene	180	10.683	10.684	(0.994)	1364625	60.0000	55.60
*	27	Naphthalene-d8	136	10.748	10.749	(1.000)	1461536	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.783	10.784	(1.003)	3406376	60.0000	47.80
	29 4-Chloroaniline	127	10.907	10.908	(1.015)	1513974	60.0000	53.84
	30 Hexachlorobutadiene	225	11.083	11.084	(1.031)	765030	60.0000	54.87
	31 4-Chloro-3-methylphenol	107	11.700	11.701	(1.089)	1220499	60.0000	60.84
	32 2-Methylnaphthalene	142	11.905	11.906	(1.108)	2515888	60.0000	52.50
	33 Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	871995	60.0000	65.89
	34 2,4,6-Trichlorophenol	196	12.410	12.411	(0.910)	964534	60.0000	61.35
	35 2,4,5-Trichlorophenol	196	12.469	12.470	(0.915)	1030226	60.0000	65.00
$	36 2-Fluorobiphenyl	172	12.540	12.541	(0.920)	2843491	60.0000	52.03
	37 2-Chloronaphthalene	162	12.698	12.699	(0.931)	2543337	60.0000	52.57
	38 2-Nitroaniline	65	12.921	12.923	(0.948)	595218	60.0000	65.41
	39 Dimethylphthalate	163	13.286	13.287	(0.975)	3065731	60.0000	54.05
	40 Acenaphthylene	152	13.380	13.381	(0.981)	3654484	60.0000	49.58
	41 2,6-Dinitrotoluene	165	13.380	13.387	(0.981)	752544	60.0000	60.10
*	42 Acenaphthene-d10	164	13.632	13.633	(1.000)	877821	20.0000	
	43 3-Nitroaniline	138	13.609	13.610	(0.998)	574337	60.0000	50.04
	44 Acenaphthene	153	13.691	13.686	(1.004)	2486799	60.0000	52.32
	45 2,4-Dinitrophenol	184	13.779	13.780	(1.011)	1050607	120.000	175.9
	46 Dibenzofuran	168	13.949	13.951	(1.023)	3316951	60.0000	52.24
	47 4-Nitrophenol	109	13.879	13.880	(1.018)	521388	60.0000	64.86
	48 2,4-Dinitrotoluene	165	14.020	14.021	(1.028)	1028405	60.0000	62.65
	50 Diethylphthalate	149	14.437	14.438	(1.059)	2995821	60.0000	50.71
	49 Fluorene	166	14.513	14.514	(1.065)	2766792	60.0000	50.10
	51 4-Chlorophenyl-phenylether	204	14.519	14.514	(1.065)	1386076	60.0000	52.04
	52 4-Nitroaniline	138	14.625	14.626	(1.073)	708100	60.0000	58.91
	53 4,6-Dinitro-2-methylphenol	198	14.695	14.697	(0.916)	1367613	120.000	141.3
	54 N-Nitrosodiphenylamine	169	14.731	14.732	(0.919)	2292809	60.0000	55.69
$	55 2,4,6-Tribromophenol	330	14.936	14.937	(1.096)	382818	60.0000	61.84
	56 4-Bromophenyl-phenylether	248	15.306	15.308	(0.955)	839139	60.0000	56.62
	57 Hexachlorobenzene	284	15.547	15.548	(0.970)	830754	60.0000	54.39
	58 Pentachlorophenol	266	15.841	15.842	(0.988)	650217	60.0000	63.72
*	59 Phenanthrene-d10	188	16.035	16.036	(1.000)	1448224	20.0000	
	60 Phenanthrene	178	16.076	16.077	(1.003)	3878293	60.0000	50.62
	61 Anthracene	178	16.152	16.153	(1.007)	3944693	60.0000	50.26
	62 Carbazole	167	16.423	16.424	(1.024)	3719250	60.0000	52.47
	63 Di-n-butylphthalate	149	17.092	17.093	(1.066)	4433661	60.0000	48.48
	64 Fluoranthene	202	18.026	18.027	(1.124)	4065333	60.0000	51.15
	65 Pyrene	202	18.396	18.397	(0.902)	4220721	60.0000	50.47
$	66 Terphenyl-d14	244	18.672	18.674	(0.916)	2664333	60.0000	52.41
	67 Butylbenzylphthalate	149	19.542	19.543	(0.958)	2351154	60.0000	56.16
	68 Benzo(a)anthracene	228	20.364	20.365	(0.999)	3947800	60.0000	51.13
*	69 Chrysene-d12	240	20.388	20.389	(1.000)	1294779	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.347	20.348	(0.998)	1334380	60.0000	53.48
	71 Chrysene	228	20.435	20.436	(1.002)	3793653	60.0000	50.15
	72 bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	3142762	60.0000	56.90
*	134 Di-n-octylphthalate-d4	153	21.457	21.458	(1.000)	1930038	20.0000	
	73 Di-n-octylphthalate	149	21.469	21.470	(1.001)	4795925	60.0000	48.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.038	22.040	(0.976)	4080347	60.0000	51.13
75	Benzo(k)fluoranthene	252	22.074	22.075	(0.978)	4266538	60.0000	51.21
187	Total Benzofluoranthenes	252	22.074	22.075	(0.978)	7852544	120.000	102.2
76	Benzo(a)pyrene	252	22.508	22.510	(0.997)	3866473	60.0000	54.28
* 77	Perylene-d12	264	22.579	22.580	(1.000)	1277873	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.453	24.454	(1.083)	4513038	60.0000	59.97
79	Dibenzo(a,h)anthracene	278	24.471	24.477	(1.084)	3659183	60.0000	60.61
80	Benzo(g,h,i)perylene	276	24.987	24.989	(1.107)	3886563	60.0000	60.45
90	N-Nitrosodimethylamine	74	4.298	4.281	(0.494)	642614	60.0000	55.47
103	Pyridine	79	4.257	4.240	(0.489)	1166653	60.0000	58.82
91	Aniline	93	8.251	8.252	(0.949)	1522936	60.0000	52.43
105	1-methylnaphthalene	142	12.081	12.082	(1.124)	2468087	60.0000	52.66
93	Benzidine	184	18.255	18.251	(0.895)	1209446	60.0000	49.52
111	Azobenzene (1,2-DP-Hydrazine)	77	14.778	14.779	(1.084)	2261358	60.0000	51.23
143	1,4-Dioxane	88	3.522	3.494	(0.405)	432668	60.0000	
$ 137	d8-1,4-Dioxane	96	3.452	3.424	(0.397)	452808	60.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.246	12.247	(0.898)	1293861	60.0000	55.65
120	2,3,4,6-Tetrachlorophenol	232	14.220	14.221	(1.043)	822319	60.0000	62.42
144	alpha-Terpineol	59	10.789	10.790	(1.004)	632002	60.0000	50.64
98	Retene	219	18.931	18.932	(0.929)	1565454	60.0000	56.77
133	Butylatedhydroxytoluene	205	13.773	13.774	(1.010)	2053796	60.0000	47.73
115	Tributyl Phosphate	99	14.801	14.802	(0.923)	2926776	60.0000	52.25
116	Dibutyl Phenyl Phosphate	175	16.534	16.535	(1.031)	2564420	60.0000	56.23
117	Butyl Diphenyl Phosphate	94	18.244	18.245	(0.895)	765596	60.0000	57.75
118	Triphenyl Phosphate	326	19.865	19.866	(0.974)	759375	60.0000	57.84
123	Acetophenone	105	9.391	9.392	(0.874)	1676761	60.0000	53.44
179	n-Decane	57	8.504	8.505	(0.978)	860809	60.0000	53.30
180	n-Octadecane	57	15.882	15.883	(0.990)	1023596	60.0000	50.45
168	Pentachlorobenzene	250	13.991	13.992	(1.026)	1018953	60.0000	55.45
113	Diphenyl Oxide	170	12.869	12.870	(0.944)	2507406	60.0000	52.24
112	Biphenyl	154	12.681	12.682	(0.930)	2788162	60.0000	50.23
110	Tetrachloroguaiacol	247	15.970	15.971	(0.996)	984961	120.000	116.5
109	3,4,5-Trichloroguaiacol	213	14.314	14.315	(0.893)	533736	60.0000	61.63
181	3,4,6-Trichloroguaiacol	211	14.437	14.444	(0.900)	612812	60.0000	60.00
108	4,5,6-Trichloroguaiacol	213	15.353	15.349	(0.958)	559497	60.0000	62.26
184	3,4-Dichloroguaiacol	192	12.763	12.764	(0.936)	563971	60.0000	62.83
107	4,5-Dichloroguaiacol	192	13.544	13.545	(0.994)	821802	60.0000	65.49
182	4,6-Dichloroguaiacol	192	13.579	13.580	(0.996)	664585	60.0000	59.01
185	4-Chloroguaiacol	115	11.658	11.660	(1.340)	379286	30.0000	31.99
106	Guaiacol	124	9.644	9.645	(1.109)	1198240	60.0000	56.49

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191006.d
Lab Smp Id: IC600719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC600719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	397320	11.46
27 Naphthalene-d8	1293412	646706	2586824	1461536	13.00
42 Acenaphthene-d10	785897	392948	1571794	877821	11.70
59 Phenanthrene-d10	1313990	656995	2627980	1448224	10.22
69 Chrysene-d12	1155293	577646	2310586	1294779	12.07
134 Di-n-octylphthala	1825297	912648	3650594	1930038	5.74
77 Perylene-d12	1146289	573144	2292578	1277873	11.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.05
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.04
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

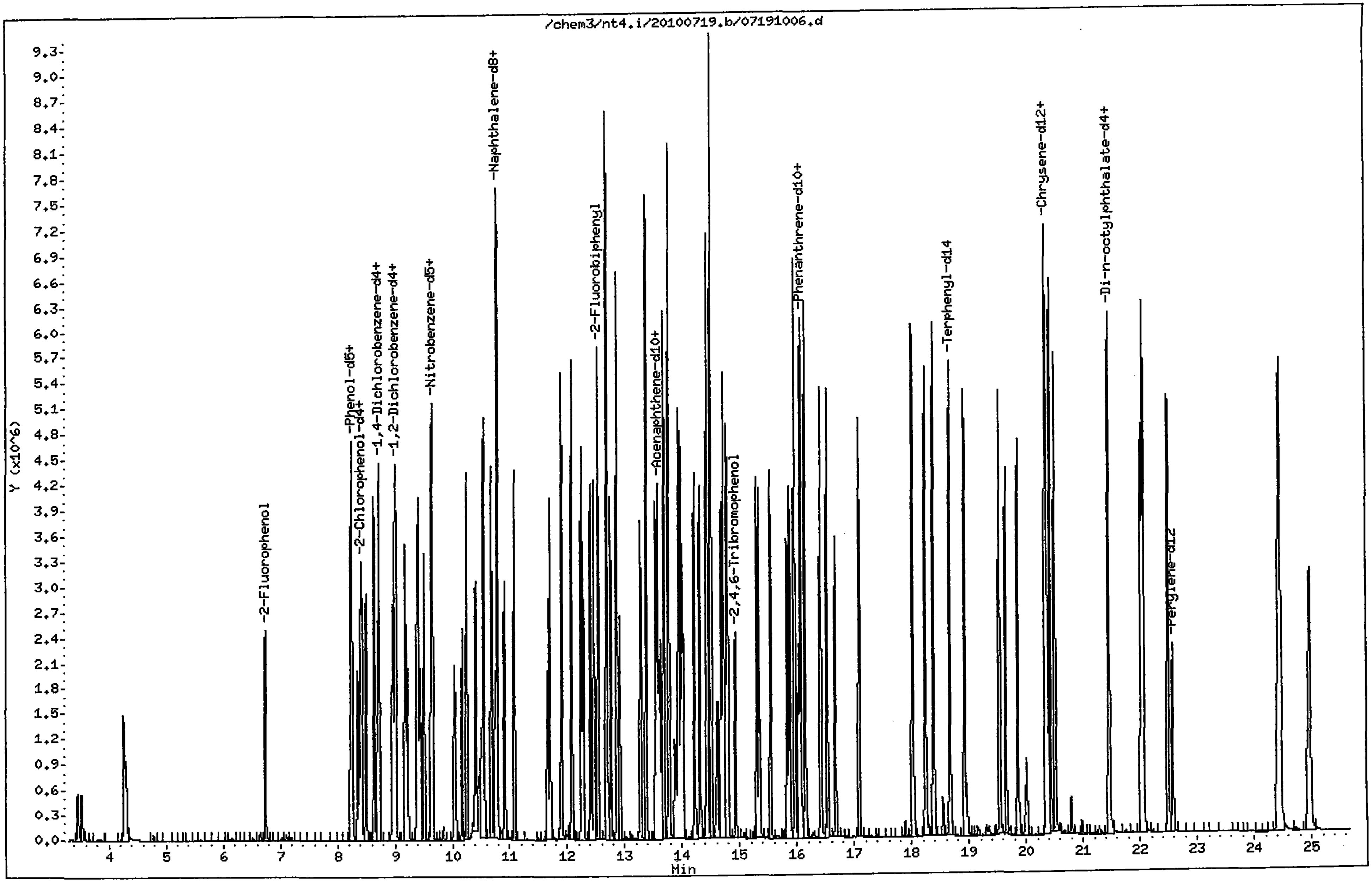
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191006.d
Date : 19-JUL-2010 19:14
Client ID: IC600719
Sample Info: IC600719

Column phase: ZB-5msi

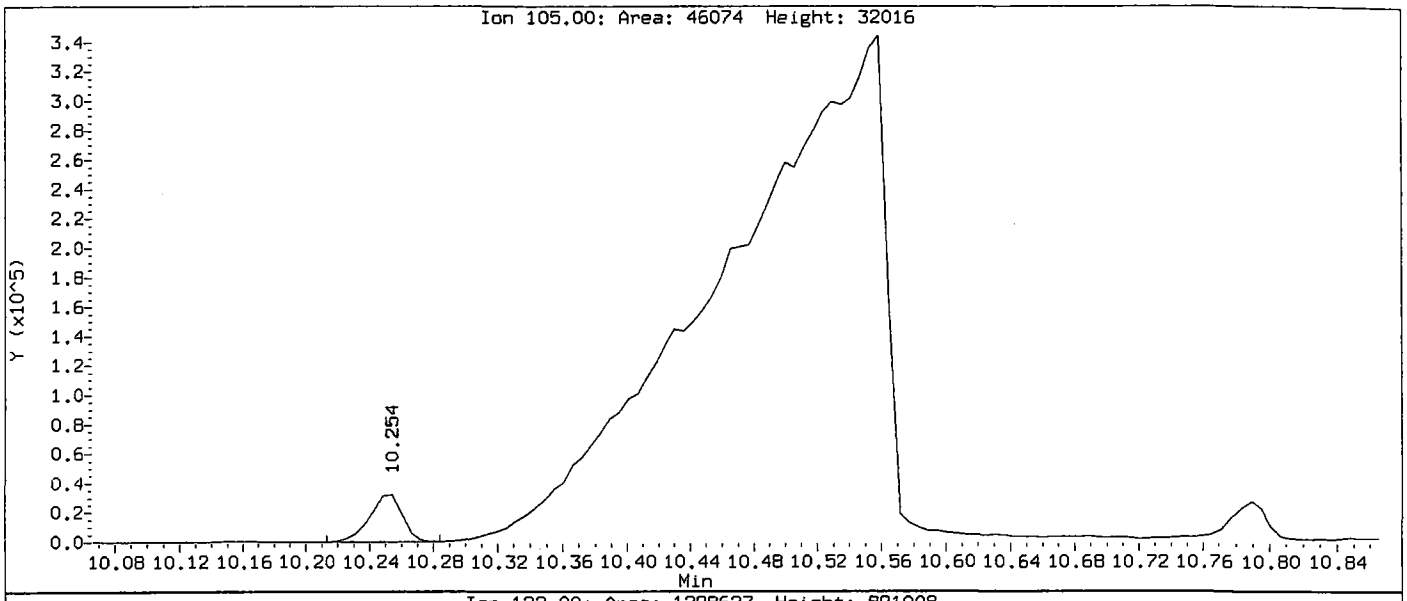
Instrument: nt4.i

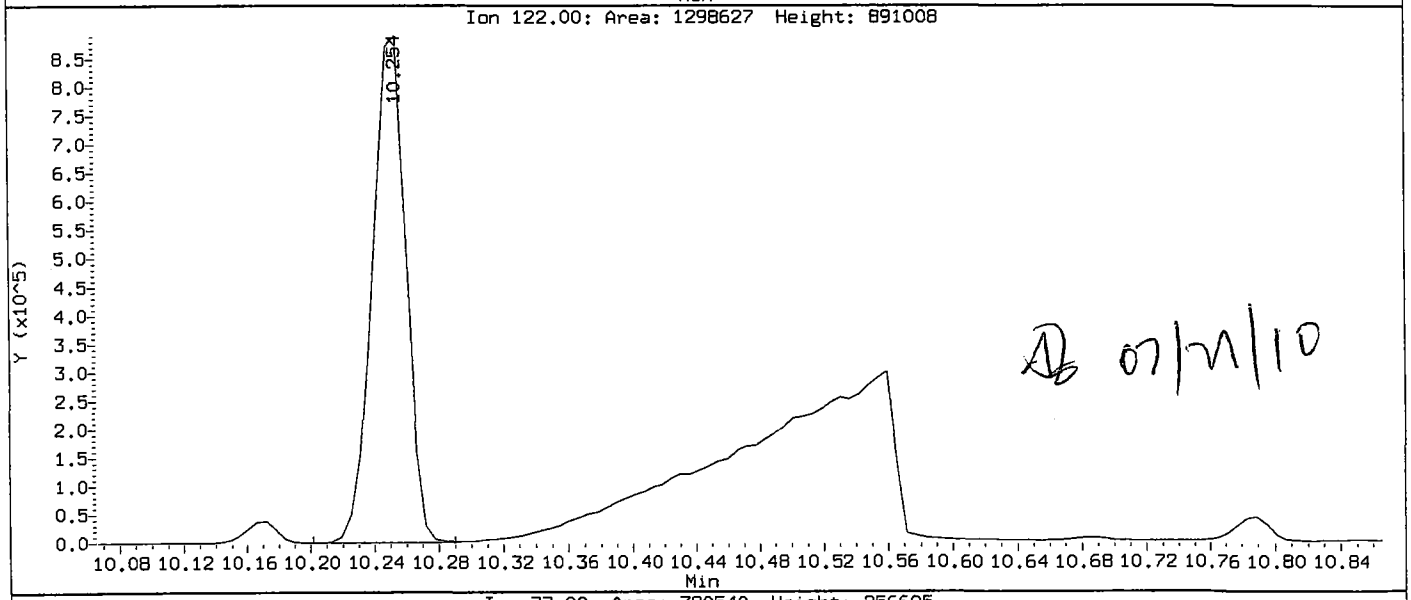
Operator: JZ
Column diameter: 0.32



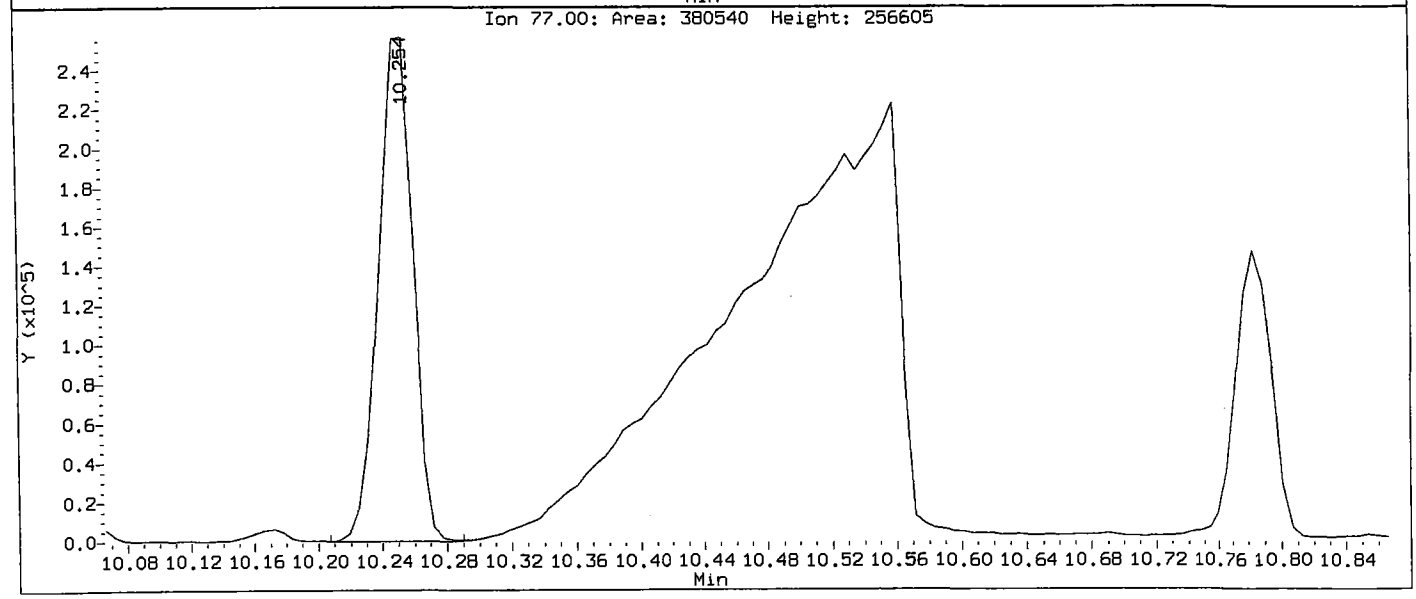
Data File: /chem3/nt4.i/20100719.b/07191006.d
Injection Date: 19-JUL-2010 19:14
Instrument: nt4.i
Client Sample ID: IC600719

Compound: Benzoic acid
CAS Number: 65-85-0



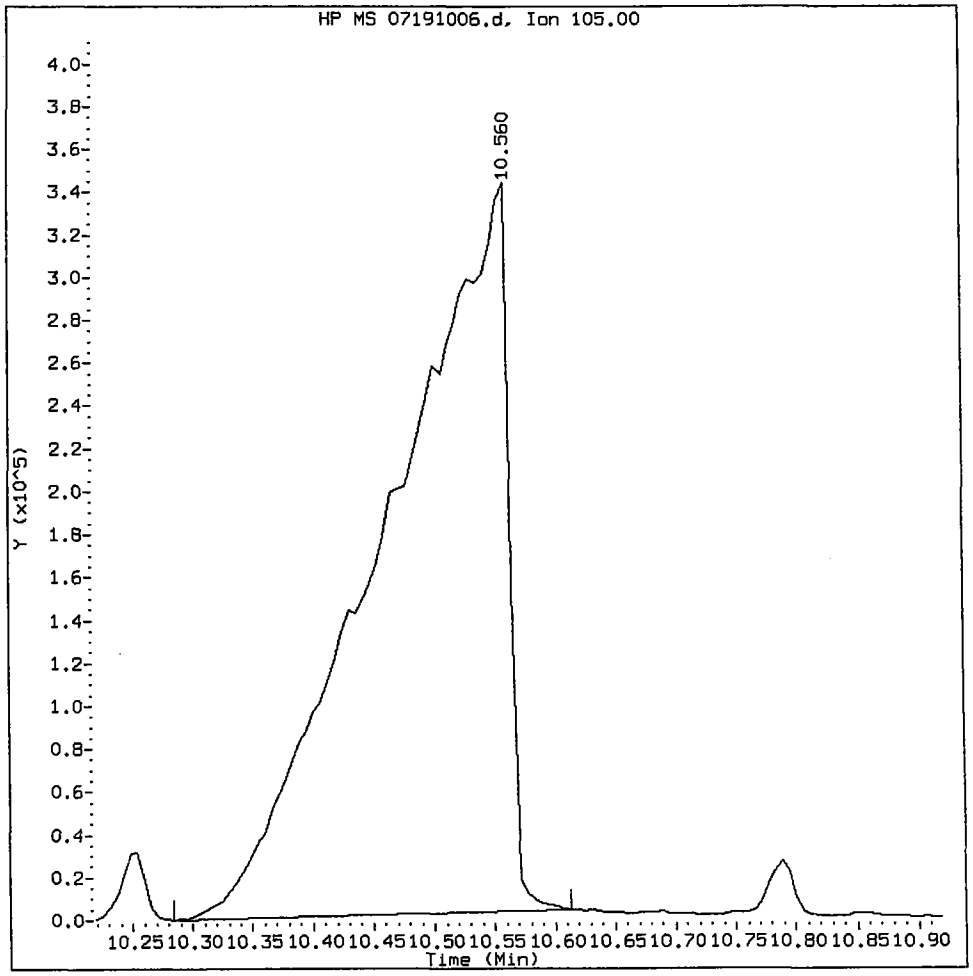


07/21/10



IC600719, /chem3/nt4.i/20100719.b/07191006.d

Benzoic acid Amount: 138.72 Area: 2377813



MANUAL INTEGRATION for Benzoic acid

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT correction

Analyst: [signature] Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191007.d
Lab Smp Id: IC800719 Client Smp ID: IC800719
Inj Date : 19-JUL-2010 19:48
Operator : JZ Inst ID: nt4.i
Smp Info : IC800719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.737	6.737	(0.774)	1268957	80.0000	77.83
$	2 Phenol-d5	99	8.229	8.229	(0.946)	1256362	80.0000	78.34
	3 Phenol	94	8.252	8.252	(0.949)	1513050	80.0000	72.91
$	5 2-Chlorophenol-d4	132	8.393	8.393	(0.965)	1360372	80.0000	79.05
	4 Bis(2-Chloroethyl)ether	93	8.352	8.352	(0.960)	1181994	80.0000	76.37
	6 2-Chlorophenol	128	8.423	8.423	(0.968)	1496302	80.0000	75.76
	7 1,3-Dichlorobenzene	146	8.640	8.640	(0.993)	1715827	80.0000	76.46
*	8 1,4-Dichlorobenzene-d4	152	8.699	8.699	(1.000)	300879	20.0000	
	9 1,4-Dichlorobenzene	146	8.722	8.722	(1.003)	1723689	80.0000	76.05
$	10 1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	985077	80.0000	76.74
	12 1,2-Dichlorobenzene	146	9.022	9.022	(1.037)	1611941	80.0000	76.37
	11 Benzyl alcohol	108	8.969	8.969	(1.031)	885576	80.0000	75.30
	14 2,2'-oxybis(1-Chloropropane)	45	9.216	9.216	(1.059)	1062470	80.0000	73.03
	13 2-Methylphenol	108	9.181	9.181	(1.055)	1236207	80.0000	77.98
	17 Hexachloroethane	117	9.509	9.509	(1.093)	668079	80.0000	79.59
	16 N-Nitroso-di-n-propylamine	70	9.445	9.445	(1.086)	847679	80.0000	78.12
	15 4-Methylphenol	108	9.415	9.415	(1.082)	1285439	80.0000	78.12
$	18 Nitrobenzene-d5	82	9.627	9.627	(0.896)	1313315	80.0000	75.51
	19 Nitrobenzene	77	9.662	9.662	(0.899)	1268880	80.0000	73.69
	20 Isophorone	82	10.038	10.038	(0.934)	2190082	80.0000	76.58
	21 2-Nitrophenol	139	10.173	10.173	(0.946)	878305	80.0000	81.64
	22 2,4-Dimethylphenol	107	10.256	10.256	(0.954)	1436576	80.0000	75.00
	23 Bis(2-Chloroethoxy)methane	93	10.408	10.408	(0.968)	1496886	80.0000	75.10
	24 Benzoic acid	105	10.567	10.567	(0.983)	2519498	160.000	185.2(M)
	25 2,4-Dichlorophenol	162	10.549	10.549	(0.981)	1322567	80.0000	78.60
	26 1,2,4-Trichlorobenzene	180	10.684	10.684	(0.994)	1436894	80.0000	76.68
*	27 Naphthalene-d8	136	10.749	10.749	(1.000)	1123708	20.0000	

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	28 Naphthalene	128	10.784	10.784	(1.003)	3561240	80.0000	66.79
	29 4-Chloroaniline	127	10.908	10.908	(1.015)	1528754	80.0000	71.91
	30 Hexachlorobutadiene	225	11.084	11.084	(1.031)	808142	80.0000	76.01
	31 4-Chloro-3-methylphenol	107	11.701	11.701	(1.089)	1238322	80.0000	80.25
	32 2-Methylnaphthalene	142	11.906	11.906	(1.108)	2607146	80.0000	71.95
	33 Hexachlorocyclopentadiene	237	12.282	12.282	(0.901)	915584	80.0000	89.17
	34 2,4,6-Trichlorophenol	196	12.411	12.411	(0.910)	987062	80.0000	82.41
	35 2,4,5-Trichlorophenol	196	12.470	12.470	(0.915)	1062277	80.0000	87.11
$	36 2-Fluorobiphenyl	172	12.541	12.541	(0.920)	2942574	80.0000	72.19
	37 2-Chloronaphthalene	162	12.699	12.699	(0.931)	2663679	80.0000	73.60
	38 2-Nitroaniline	65	12.923	12.923	(0.948)	601628	80.0000	86.11
	39 Dimethylphthalate	163	13.287	13.287	(0.975)	3167616	80.0000	74.52
	40 Acenaphthylene	152	13.381	13.381	(0.981)	3749859	80.0000	68.69
	41 2,6-Dinitrotoluene	165	13.387	13.387	(0.982)	800837	80.0000	83.72
*	42 Acenaphthene-d10	164	13.633	13.633	(1.000)	665405	20.0000	
	43 3-Nitroaniline	138	13.610	13.610	(0.998)	547360	80.0000	64.90
	44 Acenaphthene	153	13.686	13.686	(1.004)	2609597	80.0000	73.42
	45 2,4-Dinitrophenol	184	13.780	13.780	(1.011)	1116227	160.000	226.1
	46 Dibenzofuran	168	13.951	13.951	(1.023)	3428345	80.0000	72.37
	47 4-Nitrophenol	109	13.880	13.880	(1.018)	524194	80.0000	84.96(M)
	48 2,4-Dinitrotoluene	165	14.021	14.021	(1.028)	1090733	80.0000	86.48
	50 Diethylphthalate	149	14.438	14.438	(1.059)	3129575	80.0000	71.17
	49 Fluorene	166	14.514	14.514	(1.065)	2859491	80.0000	69.76
	51 4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	1441324	80.0000	72.50
	52 4-Nitroaniline	138	14.626	14.626	(1.073)	743720	80.0000	81.39
	53 4,6-Dinitro-2-methylphenol	198	14.697	14.697	(0.916)	1436565	160.000	185.2
	54 N-Nitrosodiphenylamine	169	14.732	14.732	(0.919)	2418926	80.0000	76.28
$	55 2,4,6-Tribromophenol	330	14.937	14.937	(1.096)	412250	80.0000	86.64
	56 4-Bromophenyl-phenylether	248	15.308	15.308	(0.955)	913731	80.0000	79.51
	57 Hexachlorobenzene	284	15.548	15.548	(0.970)	900972	80.0000	76.54
	58 Pentachlorophenol	266	15.842	15.842	(0.988)	681354	80.0000	84.95
*	59 Phenanthrene-d10	188	16.036	16.036	(1.000)	1124245	20.0000	
	60 Phenanthrene	178	16.077	16.077	(1.003)	4063948	80.0000	69.78
	61 Anthracene	178	16.153	16.153	(1.007)	4117176	80.0000	69.11
	62 Carbazole	167	16.424	16.424	(1.024)	3902737	80.0000	72.09
	63 Di-n-butylphthalate	149	17.093	17.093	(1.066)	4579430	80.0000	66.34
	64 Fluoranthene	202	18.027	18.027	(1.124)	4175102	80.0000	69.19
	65 Pyrene	202	18.397	18.397	(0.902)	4362118	80.0000	71.04
$	66 Terphenyl-d14	244	18.674	18.674	(0.916)	2749894	80.0000	73.34
	67 Butylbenzylphthalate	149	19.543	19.543	(0.958)	2421300	80.0000	77.70
	68 Benzo(a)anthracene	228	20.365	20.365	(0.999)	4068026	80.0000	71.67
*	69 Chrysene-d12	240	20.389	20.389	(1.000)	968321	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.348	20.348	(0.998)	1323573	80.0000	72.10
	71 Chrysene	228	20.436	20.436	(1.002)	3954441	80.0000	71.18
	72 bis(2-Ethylhexyl)phthalate	149	20.518	20.518	(0.956)	3227271	80.0000	76.14
*	134 Di-n-octylphthalate-d4	153	21.458	21.458	(1.000)	1492891	20.0000	
	73 Di-n-octylphthalate	149	21.470	21.470	(1.001)	4907690	80.0000	66.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	22.040	22.040	(0.976)	4767186	80.0000	78.45
75	Benzo(k)fluoranthene	252	22.075	22.075	(0.978)	3917576	80.0000	63.64(H)
187	Total Benzofluoranthenes	252	22.075	22.075	(0.978)	8152817	160.000	141.5
76	Benzo(a)pyrene	252	22.510	22.510	(0.997)	4064073	80.0000	75.39
* 77	Perylene-d12	264	22.580	22.580	(1.000)	976271	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.454	24.454	(1.083)	4819802	80.0000	83.27
79	Dibenzo(a,h)anthracene	278	24.477	24.477	(1.084)	3918538	80.0000	84.21
80	Benzo(g,h,i)perylene	276	24.989	24.989	(1.107)	4132422	80.0000	83.52
90	N-Nitrosodimethylamine	74	4.281	4.281	(0.492)	697583	80.0000	79.59
103	Pyridine	79	4.240	4.240	(0.487)	1255622	80.0000	83.07
91	Aniline	93	8.252	8.252	(0.949)	1571926	80.0000	72.57
105	1-methylnaphthalene	142	12.082	12.082	(1.124)	2580932	80.0000	72.71
93	Benzidine	184	18.251	18.251	(0.895)	1168136	80.0000	63.96
111	Azobenzene (1,2-DP-Hydrazine)	77	14.779	14.779	(1.084)	2355672	80.0000	71.63
143	1,4-Dioxane	88	3.494	3.494	(0.402)	447525	80.0000	
$ 137	d8-1,4-Dioxane	96	3.424	3.424	(0.394)	475461	80.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.247	12.247	(0.898)	1339605	80.0000	76.55
120	2,3,4,6-Tetrachlorophenol	232	14.221	14.221	(1.043)	860255	80.0000	85.21
144	alpha-Terpineol	59	10.790	10.790	(1.004)	657935	80.0000	70.00
98	Retene	219	18.932	18.932	(0.929)	1623969	80.0000	78.92
133	Butylatedhydroxytoluene	205	13.774	13.774	(1.010)	2093075	80.0000	66.04
115	Tributyl Phosphate	99	14.802	14.802	(0.923)	3019559	80.0000	70.77
116	Dibutyl Phenyl Phosphate	175	16.535	16.535	(1.031)	2635204	80.0000	75.18
117	Butyl Diphenyl Phosphate	94	18.245	18.245	(0.895)	786388	80.0000	79.41
118	Triphenyl Phosphate	326	19.866	19.866	(0.974)	782394	80.0000	79.73
123	Acetophenone	105	9.392	9.392	(0.874)	1783025	80.0000	74.73
179	n-Decane	57	8.505	8.505	(0.978)	874156	80.0000	72.58
180	n-Octadecane	57	15.883	15.883	(0.990)	1091994	80.0000	70.68
168	Pentachlorobenzene	250	13.992	13.992	(1.026)	1076925	80.0000	77.68
113	Diphenyl Oxide	170	12.870	12.870	(0.944)	2584282	80.0000	72.18
112	Biphenyl	154	12.682	12.682	(0.930)	2852174	80.0000	69.29
110	Tetrachloroguaiacol	247	15.971	15.971	(0.996)	1042306	160.000	158.9
109	3,4,5-Trichloroguaiacol	213	14.315	14.315	(0.893)	548942	80.0000	81.41
181	3,4,6-Trichloroguaiacol	211	14.444	14.444	(0.901)	634089	80.0000	79.98
108	4,5,6-Trichloroguaiacol	213	15.349	15.349	(0.957)	593948	80.0000	84.36
184	3,4-Dichloroguaiacol	192	12.764	12.764	(0.936)	591226	80.0000	85.84
107	4,5-Dichloroguaiacol	192	13.545	13.545	(0.994)	858522	80.0000	88.63
182	4,6-Dichloroguaiacol	192	13.580	13.580	(0.996)	689458	80.0000	80.65
185	4-Chloroguaiacol	115	11.660	11.660	(1.340)	395259	40.0000	43.40
106	Guaiacol	124	9.645	9.645	(1.109)	1270875	80.0000	79.24

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191007.d
Lab Smp Id: IC800719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC800719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	300879	-15.60
27 Naphthalene-d8	1293412	646706	2586824	1123708	-13.12
42 Acenaphthene-d10	785897	392948	1571794	665405	-15.33
59 Phenanthrene-d10	1313990	656995	2627980	1124245	-14.44
69 Chrysene-d12	1155293	577646	2310586	968321	-16.18
134 Di-n-octylphthala	1825297	912648	3650594	1492891	-18.21
77 Perylene-d12	1146289	573144	2292578	976271	-14.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.01
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.06
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.05
59 Phenanthrene-d10	16.03	15.53	16.53	16.04	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

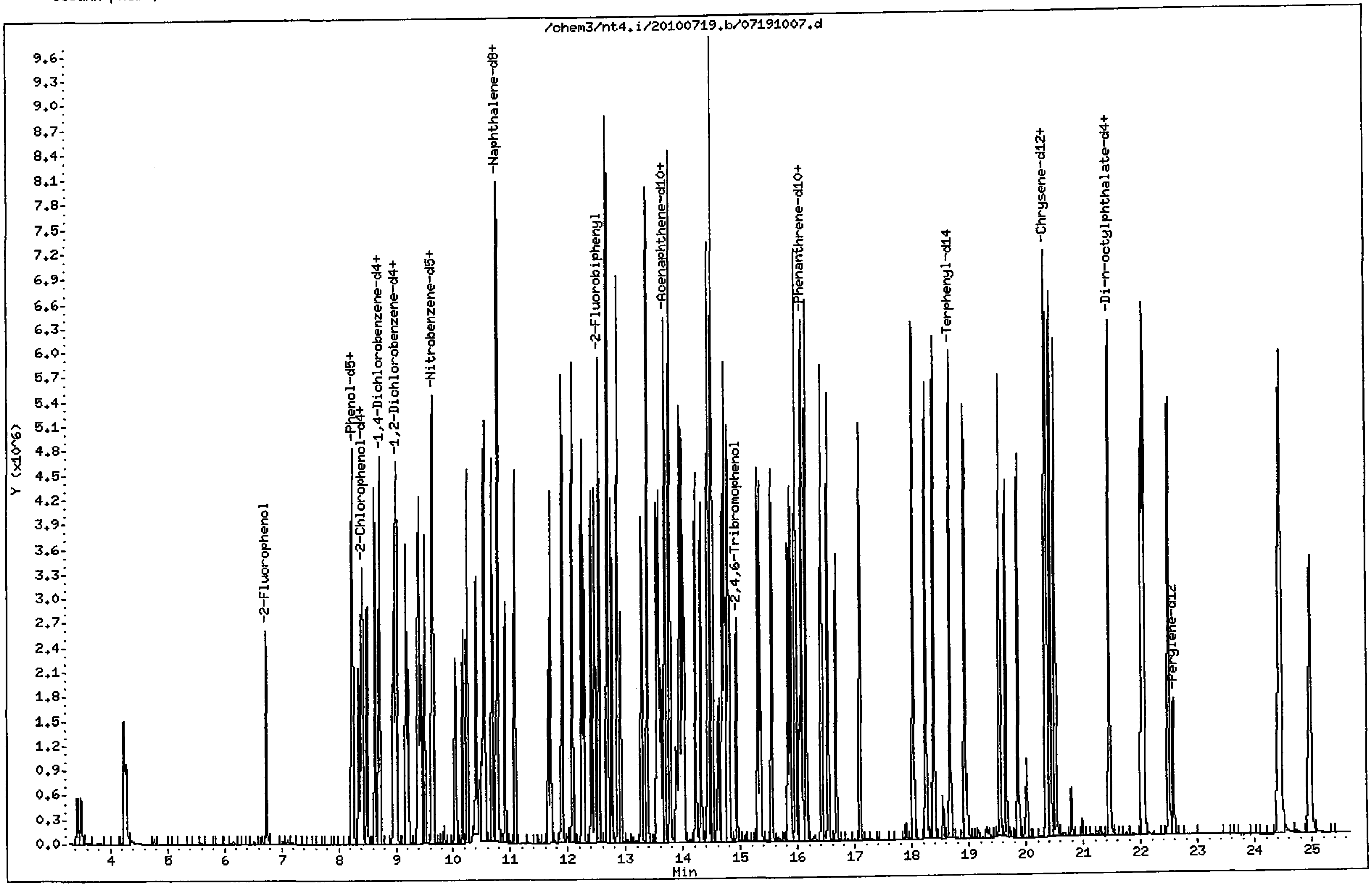
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191007.d
Date : 19-JUL-2010 19:48
Client ID: IC800719
Sample Info: IC800719

Column phase: ZB-5msi

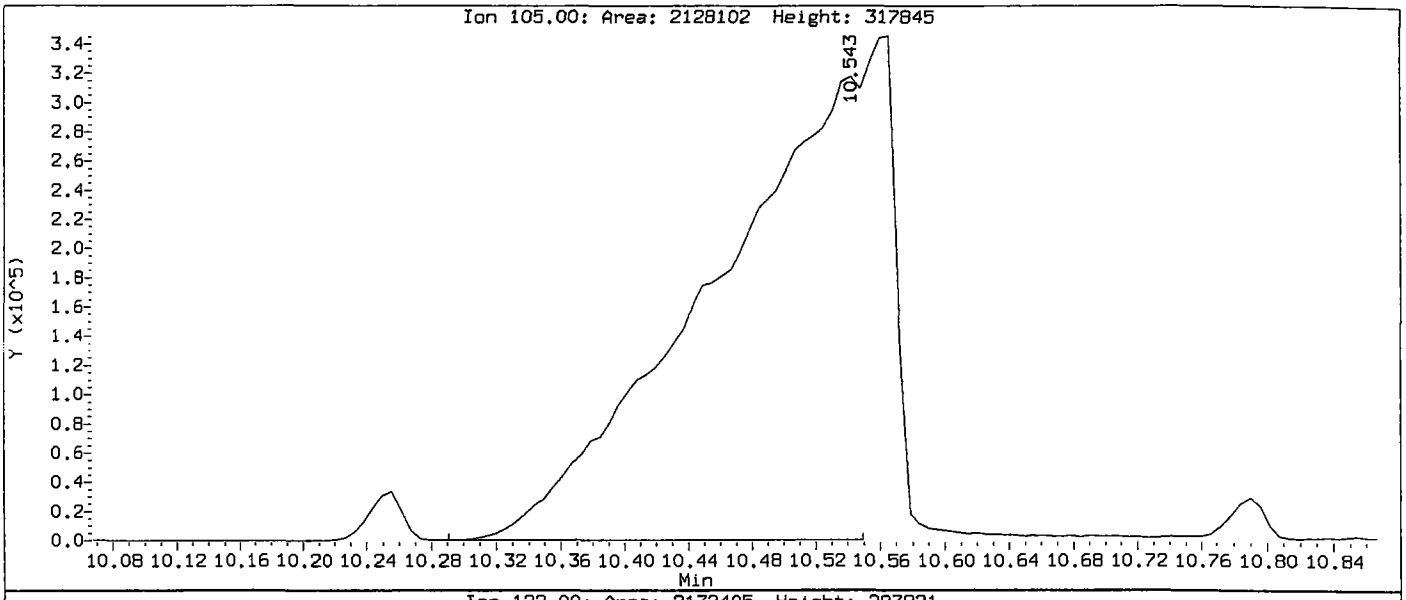
Instrument: nt4.i

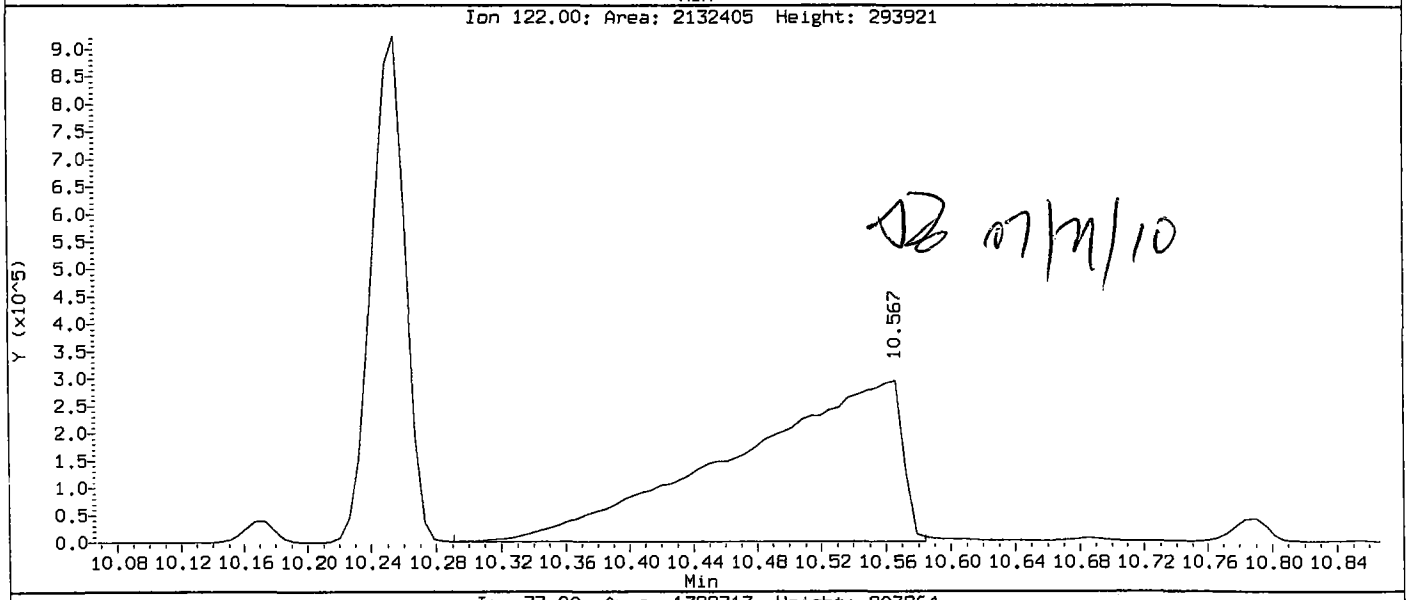
Operator: JZ
Column diameter: 0.32



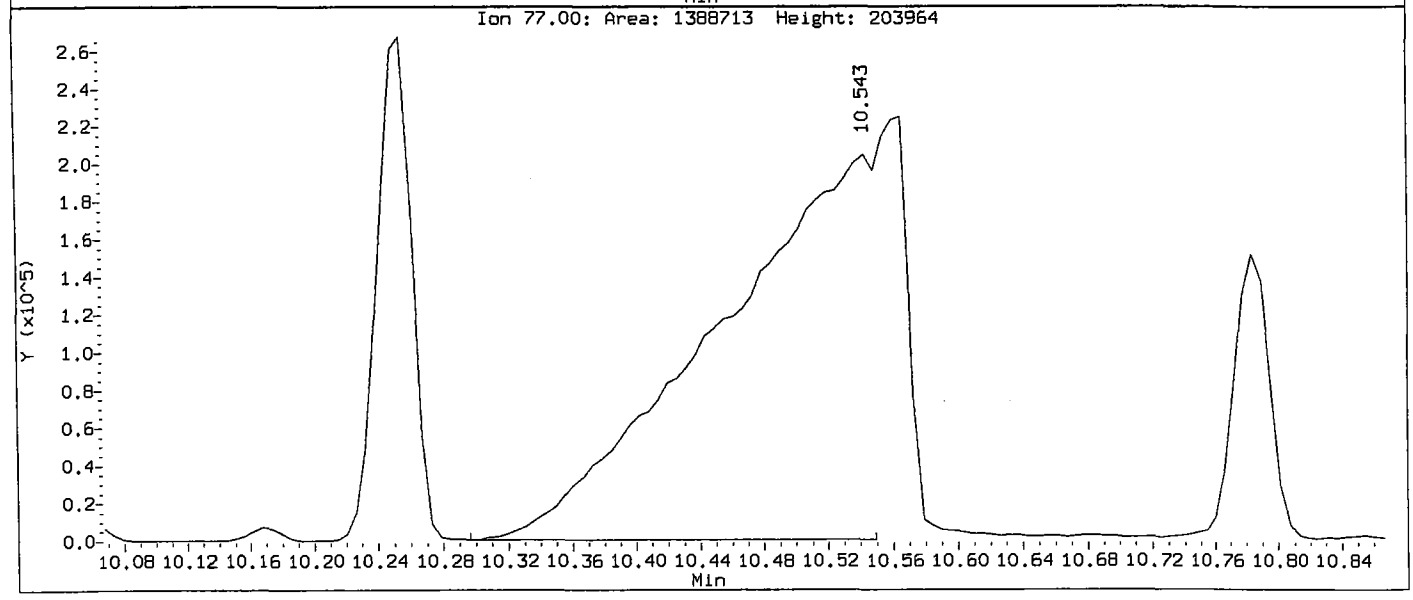
Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: Benzoic acid
CAS Number: 65-85-0



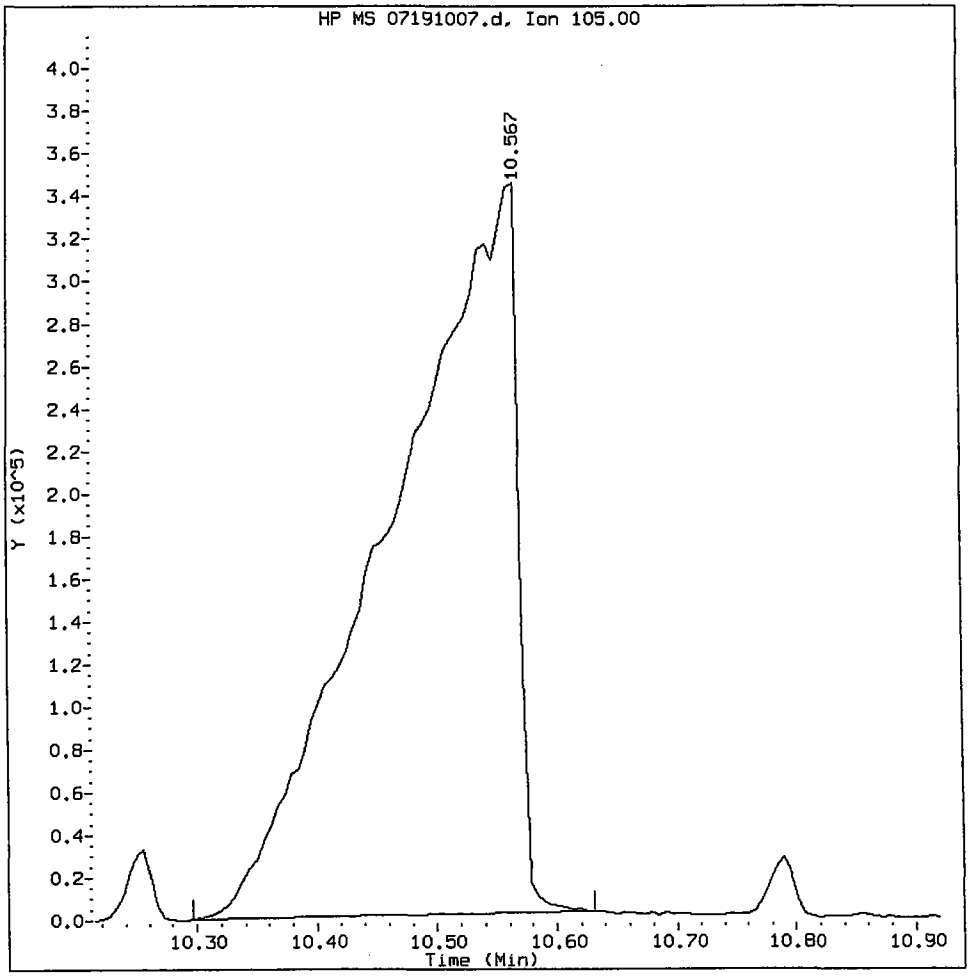


DB 07/21/10



IC800719, /chem3/nt4.i/20100719.b/07191007.d

Benzoic acid Amount: 185.17 Area: 2519498



MANUAL INTEGRATION for Benzoic acid

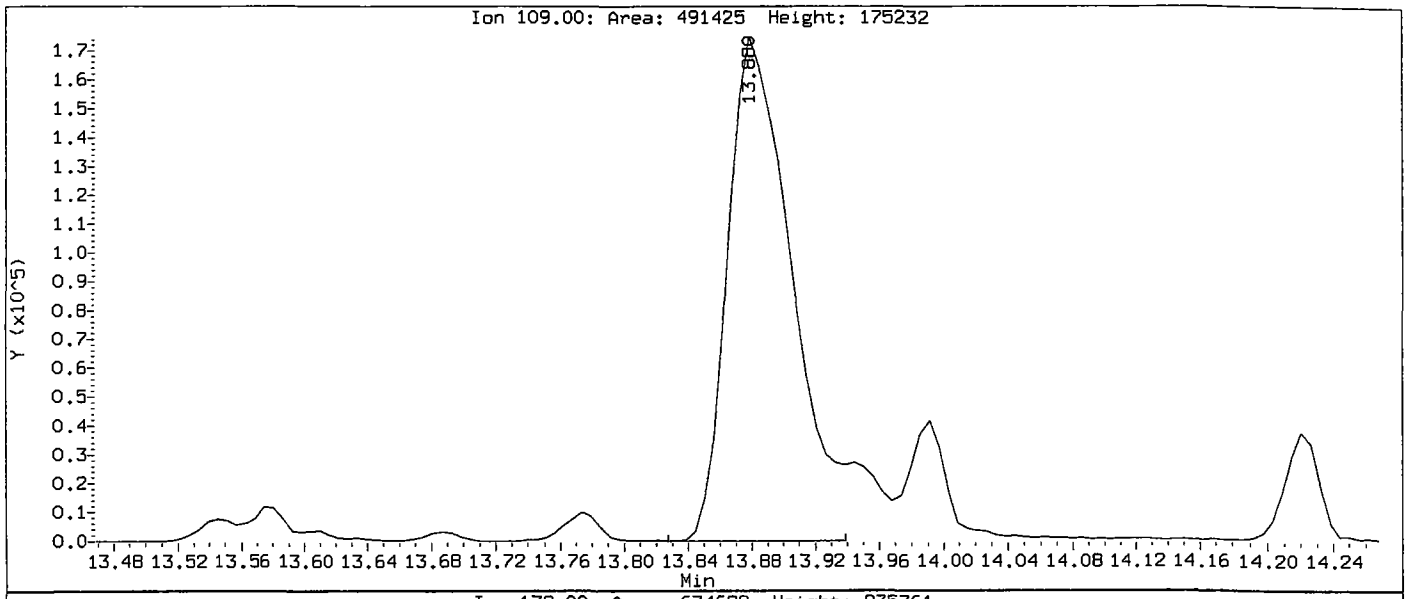
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

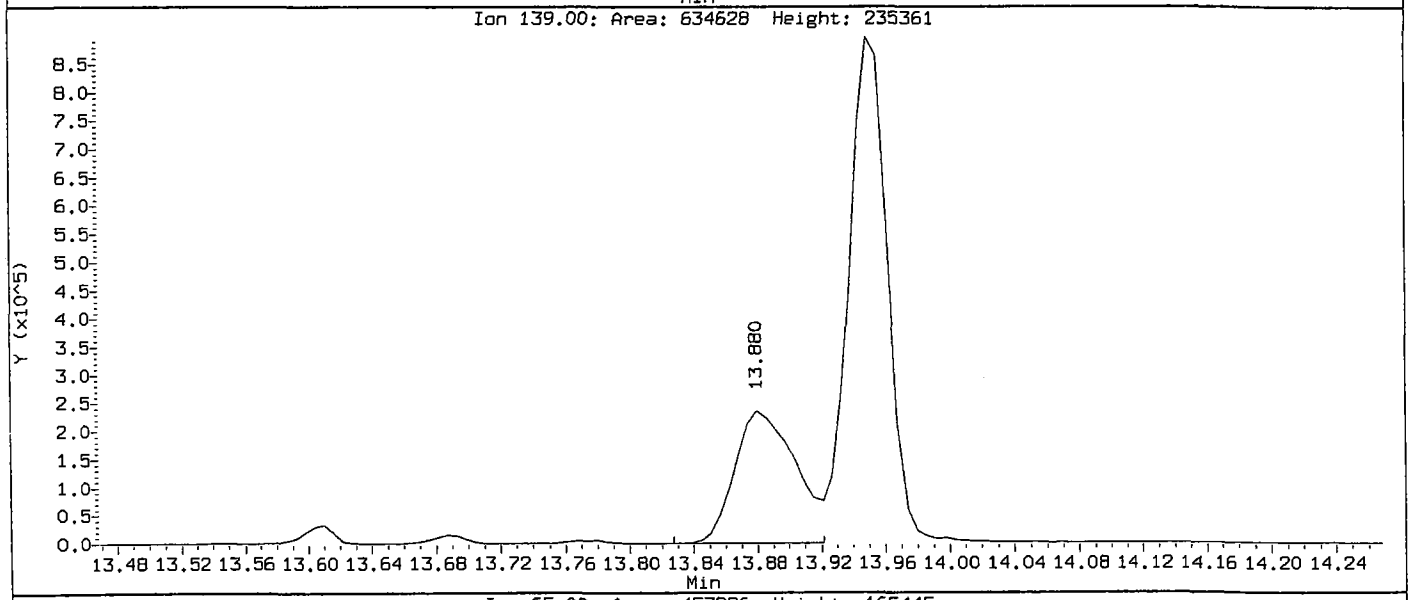
5. Other _____

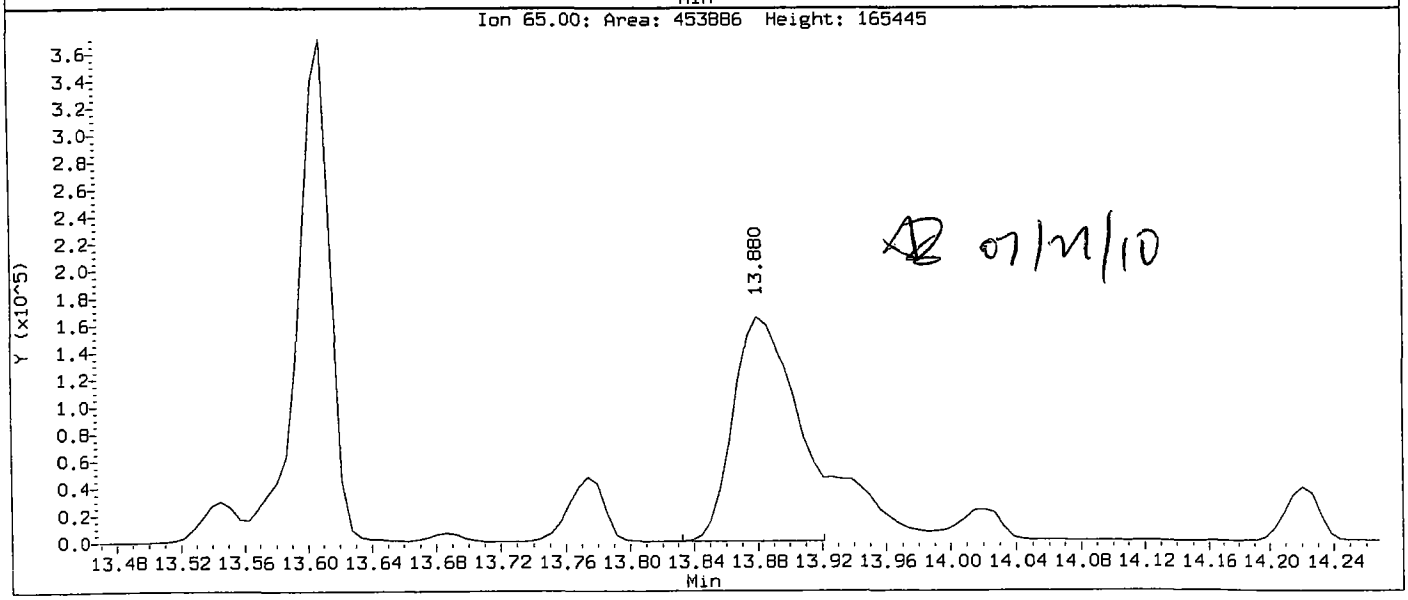
Analyst: AD Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: 4-Nitrophenol
CAS Number: 100-02-7



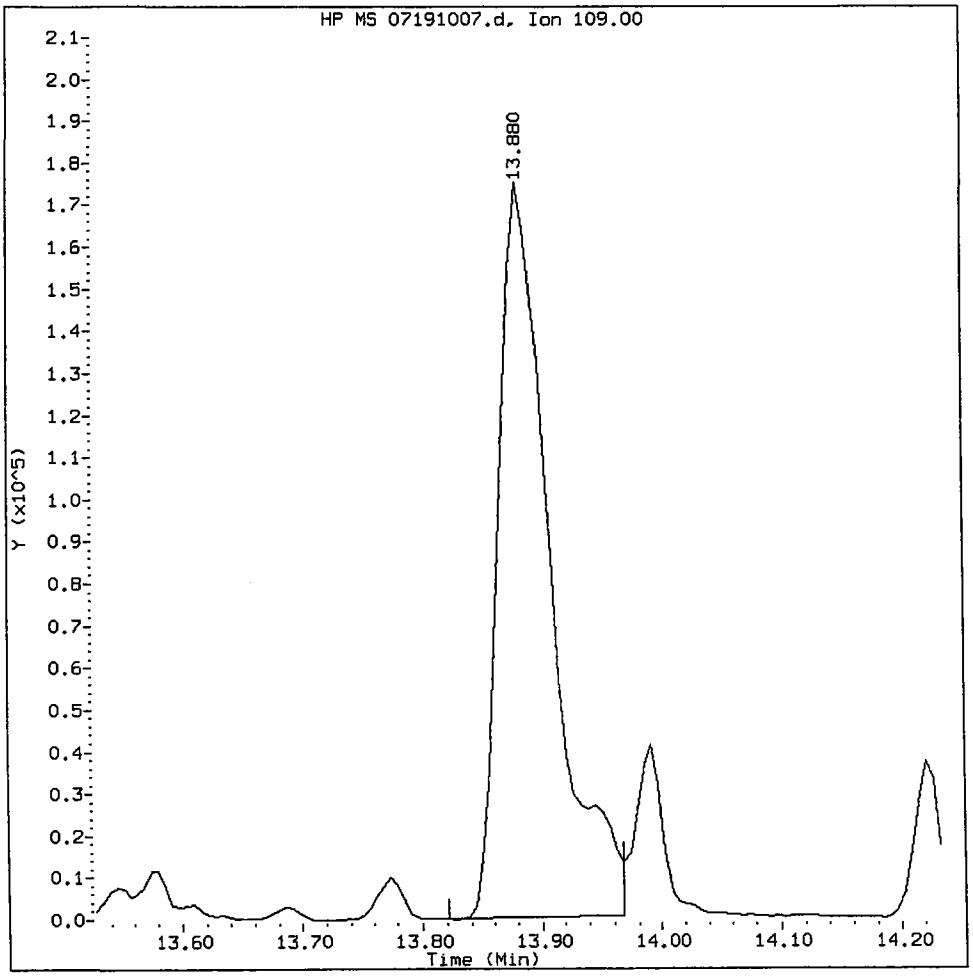




AB 07/21/10

IC800719, /chem3/nt4.i/20100719.b/07191007.d

4-Nitrophenol Amount: 84.96 Area: 524194



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191008.d
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Inj Date : 19-JUL-2010 20:21
Operator : JZ Inst ID: nt4.i
Smp Info : ICV0719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:42 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.728	6.737	(0.774)	396455	25.2478	25.25(R)
$	2 Phenol-d5	99	8.214	8.229	(0.945)	401900	26.0189	26.02(R)
	3 Phenol	94	8.232	8.252	(0.947)	507383	25.3845	25.38
$	5 2-Chlorophenol-d4	132	8.384	8.393	(0.965)	425250	25.6577	25.66(R)
	4 Bis(2-Chloroethyl)ether	93	8.343	8.352	(0.960)	367789	24.6737	24.67
	6 2-Chlorophenol	128	8.414	8.423	(0.968)	485433	25.5200	25.52
	7 1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	535892	24.7955	24.80
*	8 1,4-Dichlorobenzene-d4	152	8.690	8.699	(1.000)	289791	20.0000	
	9 1,4-Dichlorobenzene	146	8.719	8.722	(1.003)	544224	24.9313	24.93
$	10 1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	312016	25.2369	25.24(R)
	12 1,2-Dichlorobenzene	146	9.013	9.022	(1.037)	511143	25.1418	25.14
	11 Benzyl alcohol	108	8.948	8.969	(1.030)	285456	25.2005	25.20
	14 2,2'-oxybis(1-Chloropropane)	45	9.207	9.216	(1.059)	354325	25.2878	25.29
	13 2-Methylphenol	108	9.166	9.181	(1.055)	402997	26.3923	26.39
	17 Hexachloroethane	117	9.506	9.509	(1.094)	201712	24.9488	24.95
	16 N-Nitroso-di-n-propylamine	70	9.424	9.445	(1.084)	265210	25.3755	25.38
	15 4-Methylphenol	108	9.395	9.415	(1.081)	414665	26.1633	26.16
$	18 Nitrobenzene-d5	82	9.618	9.627	(0.896)	428922	26.6141	26.61(R)
	19 Nitrobenzene	77	9.647	9.662	(0.898)	407643	25.5470	25.55
	20 Isophorone	82	10.017	10.038	(0.933)	666101	25.1364	25.14
	21 2-Nitrophenol	139	10.164	10.173	(0.946)	269470	27.0302	27.03
	22 2,4-Dimethylphenol	107	10.241	10.256	(0.954)	462633	26.0654	26.07
	23 Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	459521	24.8796	24.88
	24 Benzoic acid	105	10.446	10.567	(0.973)	697191	48.8442	48.84
	25 2,4-Dichlorophenol	162	10.534	10.549	(0.981)	415496	26.6463	26.65
	26 1,2,4-Trichlorobenzene	180	10.681	10.684	(0.995)	426723	24.5734	24.57
*	27 Naphthalene-d8	136	10.740	10.749	(1.000)	1041288	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	28 Naphthalene	128	10.775	10.784	(1.003)	1251278	25.3254	25.33
	29 4-Chloroaniline	127	10.899	10.908	(1.015)	503039	25.5337	25.53
	30 Hexachlorobutadiene	225	11.081	11.084	(1.032)	242046	24.5681	24.57
	31 4-Chloro-3-methylphenol	107	11.692	11.701	(1.089)	388357	27.1596	27.16
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	831770	24.7718	24.77
	33 Hexachlorocyclopentadiene	237	12.279	12.282	(0.901)	247661	26.7783	26.78
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	296058	26.0188	26.02
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	310779	26.8272	26.83
$	36 2-Fluorobiphenyl	172	12.532	12.541	(0.920)	972175	25.1079	25.11(R)
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	857433	24.9410	24.94
	38 2-Nitroaniline	65	12.908	12.923	(0.947)	185457	27.9414	27.94
	39 Dimethylphthalate	163	13.266	13.287	(0.974)	1000711	24.7816	24.78
	40 Acenaphthylene	152	13.372	13.381	(0.981)	1312841	25.3168	25.32
	41 2,6-Dinitrotoluene	165	13.366	13.387	(0.981)	241057	26.5288	26.53
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	632100	20.0000	
	43 3-Nitroaniline	138	13.589	13.610	(0.997)	219280	27.3683	27.37
	44 Acenaphthene	153	13.677	13.686	(1.004)	833956	24.7009	24.70
	45 2,4-Dinitrophenol	184	13.754	13.780	(1.009)	289825	53.8946	53.89
	46 Dibenzofuran	168	13.942	13.951	(1.023)	1139736	25.3251	25.33
	47 4-Nitrophenol	109	13.865	13.880	(1.018)	152266	26.8847	26.88
	48 2,4-Dinitrotoluene	165	14.006	14.021	(1.028)	322811	26.9428	26.94
	50 Diethylphthalate	149	14.429	14.438	(1.059)	1070437	25.6257	25.63
	49 Fluorene	166	14.500	14.514	(1.064)	1006902	25.8587	25.86
	51 4-Chlorophenyl-phenylether	204	14.511	14.514	(1.065)	481921	25.5176	25.52
	52 4-Nitroaniline	138	14.594	14.626	(1.071)	222189	25.5977	25.60
	53 4,6-Dinitro-2-methylphenol	198	14.670	14.697	(0.915)	406459	55.7299	55.73
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	754750	25.3136	25.31
$	55 2,4,6-Tribromophenol	330	14.928	14.937	(1.096)	122806	27.1681	27.17(R)
	56 4-Bromophenyl-phenylether	248	15.299	15.308	(0.955)	272268	25.1977	25.20
	57 Hexachlorobenzene	284	15.539	15.548	(0.970)	272787	24.6474	24.65
	58 Pentachlorophenol	266	15.827	15.842	(0.988)	198545	26.3285	26.33
*	59 Phenanthrene-d10	188	16.027	16.036	(1.000)	1057026	20.0000	
	60 Phenanthrene	178	16.062	16.077	(1.002)	1373128	25.0764	25.08
	61 Anthracene	178	16.139	16.153	(1.007)	1428848	25.5078	25.51
	62 Carbazole	167	16.409	16.424	(1.024)	1270670	24.9632	24.96
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	1704804	26.2672	26.27
	64 Fluoranthene	202	18.018	18.027	(1.124)	1449527	25.5494	25.55
	65 Pyrene	202	18.383	18.397	(0.902)	1489120	24.8406	24.84
$	66 Terphenyl-d14	244	18.665	18.674	(0.916)	920765	25.1526	25.15(R)
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	787143	25.8738	25.87
	68 Benzo(a)anthracene	228	20.350	20.365	(0.999)	1389923	25.0808	25.08
*	69 Chrysene-d12	240	20.380	20.389	(1.000)	945392	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.339	20.348	(0.998)	460373	25.6856	25.69
	71 Chrysene	228	20.421	20.436	(1.002)	1348854	24.8683	24.87
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	1091697	26.3692	26.37
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1458222	20.0000	
	73 Di-n-octylphthalate	149	21.461	21.470	(1.001)	1841837	25.4048	25.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
74	Benzo(b)fluoranthene	252	22.019	22.040	(0.976)	1372217	24.6520	24.65
75	Benzo(k)fluoranthene	252	22.054	22.075	(0.977)	1482389	26.2902	26.29
187	Total Benzofluoranthenes	252	22.054	22.075	(0.977)	2706497	51.2879	51.29
76	Benzo(a)pyrene	252	22.489	22.510	(0.996)	1275956	25.8408	25.84
* 77	Perylene-d12	264	22.571	22.580	(1.000)	894258	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.416	24.454	(1.082)	1345166	25.3704	25.37
79	Dibenzo(a,h)anthracene	278	24.439	24.477	(1.083)	1114931	26.1572	26.16
80	Benzo(g,h,i)perylene	276	24.944	24.989	(1.105)	1147098	25.3100	25.31
90	N-Nitrosodimethylamine	74	4.261	4.281	(0.490)	209520	24.8187	24.82
103	Pyridine	79	4.237	4.240	(0.488)	377090	25.9012	25.90
91	Aniline	93	8.237	8.252	(0.948)	518241	24.8402	24.84
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	809992	24.6257	24.63
93	Benzidine	184	18.242	18.251	(0.895)	409767	23.6579	23.66
111	Azobenzene (1,2-DP-Hydrazine)	77	14.764	14.779	(1.084)	804253	25.7433	25.74
143	1,4-Dioxane	88	3.485	3.494	(0.401)	136073	24.3666	24.37
$ 137	d8-1,4-Dioxane	96	3.415	3.424	(0.393)	142232	24.4844	24.48 (R)
151	1,2,4,5-Tetrachlorobenzene	216	12.238	12.247	(0.898)	410665	24.7046	24.70
120	2,3,4,6-Tetrachlorophenol	232	14.212	14.221	(1.043)	258011	26.9020	26.90
144	alpha-Terpineol	59	10.775	10.790	(1.003)	218542	25.0926	25.09
98	Retene	219	18.923	18.932	(0.928)	496626	24.7205	24.72
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	784653	26.0616	26.06
115	Tributyl Phosphate	99	14.776	14.802	(0.922)	1064967	26.5486	26.55
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.031)	868517	26.3522	26.35
117	Butyl Diphenyl Phosphate	94	18.236	18.245	(0.895)	245396	25.3828	25.38
118	Triphenyl Phosphate	326	19.857	19.866	(0.974)	242593	25.3227	25.32
123	Acetophenone	105	9.377	9.392	(0.873)	562165	25.4250	25.43
179	n-Decane	57	8.496	8.505	(0.978)	293017	25.2600	25.26
180	n-Octadecane	57	15.880	15.883	(0.991)	374396	25.7724	25.77
168	Pentachlorobenzene	250	13.983	13.992	(1.026)	321693	24.4279	24.43
113	Diphenyl Oxide	170	12.867	12.870	(0.944)	832301	24.4721	24.47
112	Biphenyl	154	12.673	12.682	(0.930)	983481	25.1520	25.15
110	Tetrachloroguaiacol	247	15.951	15.971	(0.995)	324626	52.6521	52.65
109	3,4,5-Trichloroguaiacol	213	14.306	14.315	(0.893)	168964	26.6531	26.65
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.900)	200402	26.8849	26.88
108	4,5,6-Trichloroguaiacol	213	15.340	15.349	(0.957)	171608	25.9247	25.92
184	3,4-Dichloroguaiacol	192	12.755	12.764	(0.936)	166207	25.4030	25.40
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	227452	24.7186	24.72
182	4,6-Dichloroguaiacol	192	13.566	13.580	(0.996)	212467	26.1631	26.16
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	114163	13.0162	13.02
106	Guaiacol	124	9.636	9.645	(1.109)	392832	25.4304	25.43

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191008.d
Lab Smp Id: ICV0719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: ICV0719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	289791	-18.71
27 Naphthalene-d8	1293412	646706	2586824	1041288	-19.49
42 Acenaphthene-d10	785897	392948	1571794	632100	-19.57
59 Phenanthrene-d10	1313990	656995	2627980	1057026	-19.56
69 Chrysene-d12	1155293	577646	2310586	945392	-18.17
134 Di-n-octylphthala	1825297	912648	3650594	1458222	-20.11
77 Perylene-d12	1146289	573144	2292578	894258	-21.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.09
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	-0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.04

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20100719
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	25.00	25.38	101.54	
4	Bis(2-Chloroethyl)	25.00	24.67	98.69	
6	2-Chlorophenol	25.00	25.52	102.08	
7	1,3-Dichlorobenzen	25.00	24.80	99.18	
9	1,4-Dichlorobenzen	25.00	24.93	99.73	
11	Benzyl alcohol	25.00	25.20	100.80	
12	1,2-Dichlorobenzen	25.00	25.14	100.57	
13	2-Methylphenol	25.00	26.39	105.57	
14	2,2'-oxybis(1-Chlo	25.00	25.29	101.15	
15	4-Methylphenol	25.00	26.16	104.65	
16	N-Nitroso-di-n-pro	25.00	25.38	101.50	
17	Hexachloroethane	25.00	24.95	99.80	
19	Nitrobenzene	25.00	25.55	102.19	
20	Isophorone	25.00	25.14	100.55	
21	2-Nitrophenol	25.00	27.03	108.12	
22	2,4-Dimethylphenol	25.00	26.07	104.26	
23	Bis(2-Chloroethoxy	25.00	24.88	99.52	
24	Benzoic acid	50.00	48.84	97.69	
25	2,4-Dichlorophenol	25.00	26.65	106.59	
26	1,2,4-Trichloroben	25.00	24.57	98.29	
28	Naphthalene	25.00	25.33	101.30	
29	4-Chloroaniline	25.00	25.53	102.13	
30	Hexachlorobutadien	25.00	24.57	98.27	
31	4-Chloro-3-methylp	25.00	27.16	108.64	
32	2-Methylnaphthalen	25.00	24.77	99.09	
33	Hexachlorocyclopen	25.00	26.78	107.11	
34	2,4,6-Trichlorophe	25.00	26.02	104.08	
35	2,4,5-Trichlorophe	25.00	26.83	107.31	
37	2-Chloronaphthalen	25.00	24.94	99.76	
38	2-Nitroaniline	25.00	27.94	111.77	
39	Dimethylphthalate	25.00	24.78	99.13	
40	Acenaphthylene	25.00	25.32	101.27	
41	2,6-Dinitrotoluene	25.00	26.53	106.12	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	27.37	109.47	
44	Acenaphthene	25.00	24.70	98.80	
45	2,4-Dinitrophenol	50.00	53.89	107.79	
46	Dibenzofuran	25.00	25.33	101.30	
47	4-Nitrophenol	25.00	26.88	107.54	
48	2,4-Dinitrotoluene	25.00	26.94	107.77	
49	Fluorene	25.00	25.86	103.43	
50	Diethylphthalate	25.00	25.63	102.50	
51	4-Chlorophenyl-phe	25.00	25.52	102.07	
52	4-Nitroaniline	25.00	25.60	102.39	
53	4,6-Dinitro-2-meth	50.00	55.73	111.46	
54	N-Nitrosodiphenyla	25.00	25.31	101.25	
56	4-Bromophenyl-phen	25.00	25.20	100.79	
57	Hexachlorobenzene	25.00	24.65	98.59	
58	Pentachlorophenol	25.00	26.33	105.31	
60	Phenanthrene	25.00	25.08	100.31	
61	Anthracene	25.00	25.51	102.03	
63	Di-n-butylphthalat	25.00	26.27	105.07	
64	Fluoranthene	25.00	25.55	102.20	
65	Pyrene	25.00	24.84	99.36	
67	Butylbenzylphthala	25.00	25.87	103.50	
68	Benzo(a)anthracene	25.00	25.08	100.32	
70	3,3'-Dichlorobenzi	25.00	25.69	102.74	
71	Chrysene	25.00	24.87	99.47	
72	bis(2-Ethylhexyl)p	25.00	26.37	105.48	
73	Di-n-octylphthalat	25.00	25.40	101.62	
74	Benzo(b)fluoranthe	25.00	24.65	98.61	
75	Benzo(k)fluoranthe	25.00	26.29	105.16	
76	Benzo(a)pyrene	25.00	25.84	103.36	
78	Indeno(1,2,3-cd)py	25.00	25.37	101.48	
79	Dibenzo(a,h)anthra	25.00	26.16	104.63	
80	Benzo(g,h,i)peryle	25.00	25.31	101.24	
90	N-Nitrosodimethyla	25.00	24.82	99.27	
91	Aniline	25.00	24.84	99.36	
93	Benzidine	25.00	23.66	94.63	
105	1-methylnaphthalen	25.00	24.63	98.50	
120	2,3,4,6-Tetrachlor	25.00	26.90	107.61	
151	1,2,4,5-Tetrachlor	25.00	24.70	98.82	
110	Tetrachloroguaiaco	50.00	52.65	105.30	
109	3,4,5-Trichlorogua	25.00	26.65	106.61	
181	3,4,6-Trichlorogua	25.00	26.88	107.54	
108	4,5,6-Trichlorogua	25.00	25.92	103.70	
184	3,4-Dichloroguaiac	25.00	25.40	101.61	
107	4,5-Dichloroguaiac	25.00	24.72	98.87	
182	4,6-Dichloroguaiac	25.00	26.16	104.65	
185	4-Chloroguaiacol	12.50	13.02	104.13	
106	Guaiacol	25.00	25.43	101.72	

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ICV0719
Level:
Data Type: MS DATA
SpikeList File: ICVS.spk
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Client SDG: 20100719
Fraction: SV
Client Smp ID: ICV0719
Operator: JZ
SampleType: LCS
Quant Type: ISTD

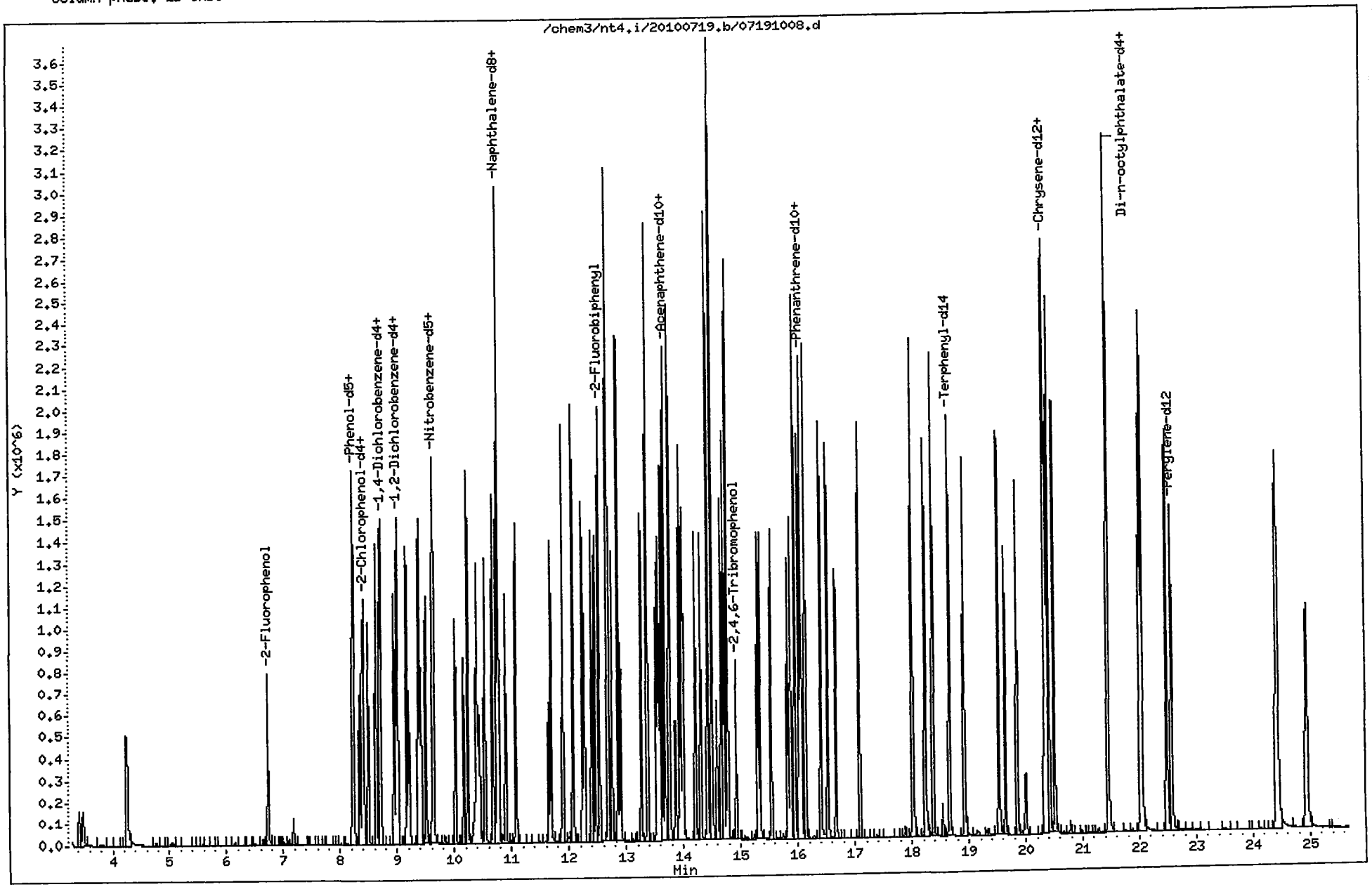
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.25	100.99	
$ 2 Phenol-d5	25.00	26.02	104.08	
$ 5 2-Chlorophenol-d4	25.00	25.66	102.63	
$ 10 1,2-Dichlorobenzen	25.00	25.24	100.95	
$ 18 Nitrobenzene-d5	25.00	26.61	106.46	
$ 36 2-Fluorobiphenyl	25.00	25.11	100.43	
$ 55 2,4,6-Tribromophen	25.00	27.17	108.67	
$ 66 Terphenyl-d14	25.00	25.15	100.61	
$ 137 d8-1,4-Dioxane	25.00	24.48	97.94	

Data File: /chem3/nt4.i/20100719.b/07191008.d
Date : 19-JUL-2010 20:21
Client ID: ICV0719
Sample Info: ICV0719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RG91 000892

Semivolatile PAH Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG94

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RG94 Client ID: Floyd / Snider

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/23/10 Analysis Start Date: 8/18/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Samples A-K + MB/LCS + MS/MSD.

Forms included (Soil & Water batch together).

H2O LCS (BAP) low in LCS ok %Rec in LCSD
No further C.A. taken.

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 08/19/10

Reviewer: _____ **Date:** 8/19/10

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 8/18/10 Analysis: 8270 Analyst: AR

GC Program: ABN_UNI Column No: 172127 Column Type: ZB-5MS1

Instrument Tune (.U or .CT.): 100629 EM Voltage: 1553

Calibration File: 08181001 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
1752-1	1747-3, 1733-1	
	1734-1, 1736-1	
	1+1019, 1753-5	
	1744-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

	Time	Filename	LabID	ClientId	DF											
1	1223	08181001.D	CC0818	CC0818	1	6.88	172311	8.94	546358	11.77	307752	14.11	488731	18.37	578337	20.50	580924	19.63	693606
2	1302	08181002.D	RG94MBW1	RG94MBW1	1	8.94	599179	11.77	359581	14.11	575665	18.36	636315	20.49	607941				
3	1334	08181003.D	RG94LCSW1	RG94LCSW1	1	8.94	601952	11.77	348479	14.11	573375	18.36	616150	20.49	584320				
4	1407	08181004.D	RG94LCSDW1	RG94LCSDW1	1	8.94	596145	11.77	341816	14.11	564252	18.37	616413	20.49	586055				
5	1440	08181005.D	RG94K	MW12-ER-0802	1	8.93	583098	11.77	347883	14.11	557256	18.36	625212	20.49	593383				
6	1513	08181006.D	RG78F 5X	PSB10-0-0.5-	5	8.94	526934	11.77	319472	14.11	516243	18.36	700835	20.50	765105				
7	1545	08181007.D	RG78K	PSB10-14-15-	1	8.94	528564	11.77	316621	14.11	514126	18.36	606545	20.50	627072				
8	1618	08181008.D	RG78E 2X Sent NR	PSB9A-0-0.5-	3	8.94	548259	11.77	328205	14.11	527600	18.36	652872	20.50	675677				
9	1651	08181009.D	RG94MBS1	RG94MBS1	1	8.94	578412	11.77	341652	14.11	554087	18.36	657444	20.49	664920				
10	1724	08181010.D	RG94LCSS1	RG94LCSS1	1	8.94	588637	11.77	339445	14.11	555727	18.37	648848	20.50	665957				
11	1757	08181011.D	RG94A	MW14-15-16.5	1	8.94	587341	11.77	346099	14.11	566818	18.36	679310	20.50	676681				
12	1829	08181012.D	RG94B	MW14-22.5-24	1	8.94	593261	11.77	350852	14.11	569953	18.36	678836	20.49	677073				
13	1902	08181013.D	RG94C	MW13-10-11.5	1	8.94	587042	11.77	348793	14.11	563210	18.36	671493	20.49	668106				
14	1935	08181014.D	RG94D	MW13-14-14.5	1	8.94	561740	11.77	330483	14.11	533967	18.36	645867	20.49	634791				
15	2008	08181015.D	RG94E	MW13-18.5-19	1	8.94	592545	11.77	350477	14.11	568259	18.36	678128	20.49	679313				
16	2040	08181016.D	RG94F	MW13-18.5-19	1	8.93	608342	11.77	358413	14.10	581299	18.36	697196	20.49	695212				
17	2113	08181017.D	RG94G	MW12-5.5-7.5	1	8.94	587038	11.77	349006	14.11	550555	18.37	691489	20.50	708293				
18	2145	08181018.D	RG94H	MW12-8-9.5-0	1	8.94	608354	11.77	363036	14.11	587946	18.36	710053	20.49	715936				
19	2218	08181019.D	RG94HMS	MW12-8-9.5-0	1	8.94	562983	11.77	331260	14.11	539955	18.37	630263	20.49	656206				
20	2251	08181020.D	RG94HMSD	MW12-8-9.5-0	1	8.94	611124	11.77	357655	14.11	587672	18.37	682634	20.50	709860				
21	2323	08181021.D	RG94I	MW12-10-11.5	1	8.94	608197	11.77	360327	14.11	585611	18.36	695016	20.50	701481				
22	2356	08181022.D	RG94J	MW12-17.5-19	1	8.94	607410	11.77	361123	14.10	583135	18.36	702883	20.49	690301				

AR 08/19/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

ARI Job No.: CC08 Method: SW846072310.m Instrument: nt6.i Date: 18-AUG-2010

R 08/19/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	08181001.D	CC0818	CC0818	1	NO MANUAL INTEGRATION
1302	08181002.D	RG94MBW1	RG94MBW1	1	NO MANUAL INTEGRATION
1334	08181003.D	RG94LCSW1	RG94LCSW1	1	NO MANUAL INTEGRATION
1407	08181004.D	RG94LCSDW1	RG94LCSDW1	1	NO MANUAL INTEGRATION
1440	08181005.D	RG94K	MW12-ER-08	1	NO MANUAL INTEGRATION
1651	08181009.D	RG94MBS1	RG94MBS1	1	NO MANUAL INTEGRATION
1724	08181010.D	RG94LCSS1	RG94LCSS1	1	NO MANUAL INTEGRATION
1757	08181011.D	RG94A	MW14-15-16	1	NO MANUAL INTEGRATION
1829	08181012.D	RG94B	MW14-22.5-	1	NO MANUAL INTEGRATION
1902	08181013.D	RG94C	MW13-10-11	1	NO MANUAL INTEGRATION
1935	08181014.D	RG94D	MW13-14-14	1	NO MANUAL INTEGRATION
2008	08181015.D	RG94E	MW13-18.5-	1	NO MANUAL INTEGRATION
2040	08181016.D	RG94F	MW13-18.5-	1	NO MANUAL INTEGRATION
2113	08181017.D	RG94G	MW12-5.5-7	1	NO MANUAL INTEGRATION
2145	08181018.D	RG94H	MW12-8-9.5	1	NO MANUAL INTEGRATION
2218	08181019.D	RG94HMS	MW12-8-9.5	1	NO MANUAL INTEGRATION
2251	08181020.D	RG94HMSD	MW12-8-9.5	1	Phenanthrene-d10,
2323	08181021.D	RG94I	MW12-10-11	1	NO MANUAL INTEGRATION
2356	08181022.D	RG94J	MW12-17.5-	1	NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/nt6.i/20100818.b

Instrument: nt6.i Date: 18-AUG-2010 Method: SW846072310.m

INITIAL CAL: 23-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

DB 08/18/10

CONTINUING CAL: 18-AUG-2010

Compound	%D
4-Nitrophenol	-21.1

NTC

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08181001.D
Analysis Type:
Lab Sample ID: CC0818
Method: /chem1/nt6.i/20100818.b/SW846072310.m

Injection Date: 18-AUG-2010 12:23
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

DB 08/18/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.32873	1.34555	1.34555	0.010	1.26551	20.00000	Averaged
$ 2 Phenol-d5	1.53477	1.48000	1.48000	0.010	-3.56874	20.00000	Averaged
3 Phenol	1.70453	1.70917	1.70917	0.010	0.27276	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.29631	1.26309	1.26309	0.010	-2.56225	20.00000	Averaged
4 Bis(2-Chloroethyl)ether	1.30667	1.27270	1.27270	0.010	-2.60040	20.00000	Averaged
6 2-Chlorophenol	1.47378	1.45243	1.45243	0.010	-1.44881	20.00000	Averaged
7 1,3-Dichlorobenzene	1.71678	1.69715	1.69715	0.010	-1.14378	20.00000	Averaged
9 1,4-Dichlorobenzene	1.68189	1.69611	1.69611	0.010	0.84518	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.89939	0.91257	0.91257	0.010	1.46563	20.00000	Averaged
12 1,2-Dichlorobenzene	1.56400	1.60639	1.60639	0.010	2.70986	20.00000	Averaged
11 Benzyl alcohol	0.80695	0.82061	0.82061	0.010	1.69247	20.00000	Averaged
14 2,2'-oxybis(1-Chloropropane	1.39331	1.51756	1.51756	0.010	8.91752	20.00000	Averaged
13 2-Methylphenol	1.27111	1.26627	1.26627	0.010	-0.38026	20.00000	Averaged
17 Hexachloroethane	0.60757	0.63326	0.63326	0.010	4.22799	20.00000	Averaged
16 N-Nitroso-di-n-propylamine	0.88368	0.87675	0.87675	0.005	-0.78415	20.00000	Averaged
15 4-Methylphenol	1.25486	1.30385	1.30385	0.010	3.90429	20.00000	Averaged
$ 18 Nitrobenzene-d5	0.38855	0.37478	0.37478	0.010	-3.54589	20.00000	Averaged
19 Nitrobenzene	0.43075	0.43069	0.43069	0.010	-0.01594	20.00000	Averaged
20 Isophorone	0.68600	0.69481	0.69481	0.010	1.28388	20.00000	Averaged
21 2-Nitrophenol	0.25274	0.26737	0.26737	0.010	5.78723	20.00000	Averaged
22 2,4-Dimethylphenol	0.41587	0.42088	0.42088	0.010	1.20564	20.00000	Averaged
23 Bis(2-Chloroethoxy)methane	0.47536	0.46320	0.46320	0.010	-2.55680	20.00000	Averaged
24 Benzoic acid	0.30742	0.28496	0.28496	0.010	-7.30321	20.00000	Averaged
25 2,4-Dichlorophenol	0.36413	0.39524	0.39524	0.010	8.54299	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.39778	0.41226	0.41226	0.010	3.64153	20.00000	Averaged
28 Naphthalene	1.13038	1.14892	1.14892	0.010	1.63979	20.00000	Averaged
29 4-Chloroaniline	0.45282	0.45590	0.45590	0.010	0.67974	20.00000	Averaged
30 Hexachlorobutadiene	0.23198	0.25083	0.25083	0.010	8.12775	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.35105	0.35591	0.35591	0.010	1.38514	20.00000	Averaged
32 2-Methylnaphthalene	0.62036	0.61302	0.61302	0.010	-1.18223	20.00000	Averaged
33 Hexachlorocyclopentadiene	21.88844	25.00000	0.36407	0.010	-12.44623	20.00000	Linear
34 2,4,6-Trichlorophenol	0.45790	0.50721	0.50721	0.010	10.77039	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.47246	0.49237	0.49237	0.010	4.21289	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.40011	1.33205	1.33205	0.010	-4.86108	20.00000	Averaged
37 2-Chloronaphthalene	1.32938	1.34590	1.34590	0.010	1.24317	20.00000	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i Injection Date: 18-AUG-2010 12:23
Lab File ID: 08181001.D Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: Init. Cal. Times: 15:01 18:38
Lab Sample ID: CC0818 Quant Type: ISTD
Method: /chem1/nt6.i/20100818.b/SW846072310.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.33095	0.31750	0.31750	0.010	-4.06525	20.00000	Averaged	
39 Dimethylphthalate	1.50119	1.37232	1.37232	0.010	-8.58461	20.00000	Averaged	
40 Acenaphthylene	2.05833	2.04797	2.04797	0.010	-0.50350	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.35670	0.35144	0.35144	0.010	-1.47488	20.00000	Averaged	
43 3-Nitroaniline	0.31209	0.30306	0.30306	0.010	-2.89401	20.00000	Averaged	
44 Acenaphthene	1.28541	1.24385	1.24385	0.010	-3.23348	20.00000	Averaged	
45 2,4-Dinitrophenol	40.97460	50.00000	0.24020	0.010	-18.05080	20.00000	Linear	
46 Dibenzofuran	1.70738	1.65368	1.65368	0.010	-3.14546	20.00000	Averaged	
47 4-Nitrophenol	0.18552	0.14645	0.14645	0.010	-21.05786	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.45944	0.44508	0.44508	0.010	-3.12720	20.00000	Averaged	
50 Diethylphthalate	1.39533	1.28470	1.28470	0.010	-7.92915	20.00000	Averaged	
49 Fluorene	1.45467	1.44466	1.44466	0.010	-0.68819	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.71936	0.70896	0.70896	0.010	-1.44594	20.00000	Averaged	
52 4-Nitroaniline	0.34745	0.31943	0.31943	0.010	-8.06287	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.19806	0.20409	0.20409	0.010	3.04626	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.68493	0.65356	0.65356	0.010	-4.57900	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.18223	0.23065	0.23065	0.010	26.56843	20.00000	Averaged	<-
56 4-Bromophenyl-phenylether	0.29331	0.31736	0.31736	0.010	8.20120	20.00000	Averaged	
57 Hexachlorobenzene	0.30899	0.35126	0.35126	0.010	13.68236	20.00000	Averaged	
58 Pentachlorophenol	0.18262	0.20496	0.20496	0.010	12.23051	20.00000	Averaged	
60 Phenanthrene	1.24231	1.22811	1.22811	0.010	-1.14350	20.00000	Averaged	
61 Anthracene	1.28336	1.29752	1.29752	0.010	1.10369	20.00000	Averaged	
62 Carbazole	1.19107	1.17227	1.17227	0.010	-1.57823	20.00000	Averaged	
63 Di-n-butylphthalate	1.45976	1.47306	1.47306	0.010	0.91125	20.00000	Averaged	
64 Fluoranthene	1.34612	1.46526	1.46526	0.010	8.85065	20.00000	Averaged	
65 Pyrene	1.20453	1.22491	1.22491	0.010	1.69175	20.00000	Averaged	
$ 66 Terphenyl-d14	0.70850	0.73302	0.73302	0.010	3.46010	20.00000	Averaged	
67 Butylbenzylphthalate	0.58237	0.56823	0.56823	0.010	-2.42843	20.00000	Averaged	
68 Benzo(a)anthracene	1.15615	1.20910	1.20910	0.010	4.58005	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37517	0.42919	0.42919	0.010	14.39861	20.00000	Averaged	
71 Chrysene	1.08220	1.12959	1.12959	0.010	4.37839	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.63407	0.64730	0.64730	0.010	2.08753	20.00000	Averaged	
73 Di-n-octylphthalate	1.08410	1.08285	1.08285	0.010	-0.11586	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.33887	1.38999	1.38999	0.010	3.81751	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.38193	1.34627	1.34627	0.010	-2.58020	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: 08181001.D
Analysis Type:
Lab Sample ID: CC0818
Method: /chem1/nt6.i/20100818.b/SW846072310.m

Injection Date: 18-AUG-2010 12:23
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 15:01 18:38
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.28781	1.28178	1.28178	0.010	-0.46804	20.00000	Averaged
76 Benzo(a)pyrene	1.26119	1.26131	1.26131	0.010	0.00993	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.68718	1.75802	1.75802	0.010	4.19844	20.00000	Averaged
79 Dibenzo(a,h)anthracene	1.29650	1.37392	1.37392	0.010	5.97142	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.52194	1.56382	1.56382	0.010	2.75144	20.00000	Averaged
90 N-Nitrosodimethylamine	0.86213	0.88254	0.88254	0.010	2.36747	20.00000	Averaged
103 Pyridine	1.54116	1.60272	1.60272	0.010	3.99414	20.00000	Averaged
91 Aniline	1.95218	1.81743	1.81743	0.010	-6.90256	20.00000	Averaged
105 1-methylnaphthalene	0.64079	0.65810	0.65810	0.010	2.70145	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181001.D
Lab Smp Id: CC0818 Client Smp ID: CC0818
Inj Date : 18-AUG-2010 12:23
Operator : JZ Inst ID: nt6.i
Smp Info : CC0818
Misc Info : 10-
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:19 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

08/18/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.831	4.831	(0.702)	289815	25.0000	25.32
$	2 Phenol-d5	99	6.566	6.566	(0.954)	318775	25.0000	24.11
	3 Phenol	94	6.582	6.582	(0.957)	368137	25.0000	25.07
$	5 2-Chlorophenol-d4	132	6.588	6.588	(0.957)	272056	25.0000	24.36
	4 Bis(2-Chloroethyl)ether	93	6.588	6.588	(0.957)	274124	25.0000	24.35
	6 2-Chlorophenol	128	6.614	6.614	(0.961)	312836	25.0000	24.64
	7 1,3-Dichlorobenzene	146	6.807	6.807	(0.989)	365546	25.0000	24.71
*	8 1,4-Dichlorobenzene-d4	152	6.881	6.881	(1.000)	172311	20.0000	
	9 1,4-Dichlorobenzene	146	6.908	6.908	(1.004)	365322	25.0000	25.21
$	10 1,2-Dichlorobenzene-d4	152	7.181	7.181	(1.043)	196557	25.0000	25.37
	12 1,2-Dichlorobenzene	146	7.202	7.202	(1.047)	345997	25.0000	25.68
	11 Benzyl alcohol	108	7.223	7.223	(1.050)	176749	25.0000	25.42
	14 2,2'-oxybis(1-Chloropropane)	45	7.485	7.485	(1.088)	326866	25.0000	27.23
	13 2-Methylphenol	108	7.517	7.517	(1.092)	272741	25.0000	24.90
	17 Hexachloroethane	117	7.688	7.688	(1.117)	136396	25.0000	26.06
	16 N-Nitroso-di-n-propylamine	70	7.709	7.709	(1.120)	188842	25.0000	24.80
	15 4-Methylphenol	108	7.763	7.763	(1.128)	280835	25.0000	25.98
$	18 Nitrobenzene-d5	82	7.843	7.843	(0.877)	255951	25.0000	24.11
	19 Nitrobenzene	77	7.870	7.870	(0.880)	294135	25.0000	25.00
	20 Isophorone	82	8.265	8.265	(0.924)	474519	25.0000	25.32
	21 2-Nitrophenol	139	8.393	8.393	(0.938)	182597	25.0000	26.45
	22 2,4-Dimethylphenol	107	8.580	8.580	(0.959)	287439	25.0000	25.30
	23 Bis(2-Chloroethoxy)methane	93	8.703	8.703	(0.973)	316342	25.0000	24.36
	24 Benzoic acid	105	8.911	8.911	(0.996)	389231	50.0000	46.35
	25 2,4-Dichlorophenol	162	8.804	8.804	(0.984)	269926	25.0000	27.14
	26 1,2,4-Trichlorobenzene	180	8.900	8.900	(0.995)	281554	25.0000	25.91
*	27 Naphthalene-d8	136	8.943	8.943	(1.000)	546358	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	8.975	8.975	(1.004)	784649	25.0000	25.41
	29 4-Chloroaniline	127	9.157	9.157	(1.024)	311355	25.0000	25.17
	30 Hexachlorobutadiene	225	9.312	9.312	(1.041)	171306	25.0000	27.03
	31 4-Chloro-3-methylphenol	107	10.027	10.027	(1.121)	243070	25.0000	25.35
	32 2-Methylnaphthalene	141	10.097	10.097	(1.129)	418661	25.0000	24.70
	33 Hexachlorocyclopentadiene	237	10.476	10.476	(0.890)	140053	25.0000	21.89
	34 2,4,6-Trichlorophenol	196	10.636	10.636	(0.903)	195120	25.0000	27.69
	35 2,4,5-Trichlorophenol	196	10.700	10.700	(0.909)	189409	25.0000	26.05
$	36 2-Fluorobiphenyl	172	10.759	10.759	(0.914)	512427	25.0000	23.78
	37 2-Chloronaphthalene	162	10.861	10.861	(0.922)	517757	25.0000	25.31
	38 2-Nitroaniline	65	11.128	11.128	(0.945)	122137	25.0000	23.98
	39 Dimethylphthalate	163	11.523	11.523	(0.979)	527918	25.0000	22.85
	40 Acenaphthylene	152	11.523	11.523	(0.979)	787835	25.0000	24.87
	41 2,6-Dinitrotoluene	165	11.603	11.603	(0.985)	135194	25.0000	24.63
*	42 Acenaphthene-d10	164	11.774	11.774	(1.000)	307752	20.0000	
	43 3-Nitroaniline	138	11.806	11.806	(1.003)	116583	25.0000	24.28
	44 Acenaphthene	153	11.827	11.827	(1.005)	478496	25.0000	24.19
	45 2,4-Dinitrophenol	184	11.977	11.977	(1.017)	184807	50.0000	40.97
	46 Dibenzofuran	168	12.089	12.089	(1.027)	636155	25.0000	24.21
	47 4-Nitrophenol	109	12.196	12.196	(1.036)	56339	25.0000	19.74
	48 2,4-Dinitrotoluene	165	12.223	12.223	(1.038)	171216	25.0000	24.22
	50 Diethylphthalate	149	12.671	12.671	(1.076)	494210	25.0000	23.02
	49 Fluorene	166	12.639	12.639	(1.073)	555747	25.0000	24.83
	51 4-Chlorophenyl-phenylether	204	12.693	12.693	(1.078)	272731	25.0000	24.64
	52 4-Nitroaniline	138	12.794	12.794	(1.087)	122883	25.0000	22.98
	53 4,6-Dinitro-2-methylphenol	198	12.869	12.869	(0.912)	249367	50.0000	51.52
	54 N-Nitrosodiphenylamine	169	12.912	12.912	(0.915)	399271	25.0000	23.86
$	55 2,4,6-Tribromophenol	330	13.061	13.061	(1.109)	88728	25.0000	31.64
	56 4-Bromophenyl-phenylether	248	13.456	13.456	(0.953)	193880	25.0000	27.05
	57 Hexachlorobenzene	284	13.649	13.649	(0.967)	214591	25.0000	28.42
	58 Pentachlorophenol	266	13.969	13.969	(0.990)	125210	25.0000	28.06
*	59 Phenanthrene-d10	188	14.113	14.113	(1.000)	488731	20.0000	
	60 Phenanthrene	178	14.151	14.151	(1.003)	750268	25.0000	24.71
	61 Anthracene	178	14.220	14.220	(1.008)	792674	25.0000	25.28
	62 Carbazole	167	14.530	14.530	(1.030)	716158	25.0000	24.61
	63 Di-n-butylphthalate	149	15.299	15.299	(1.084)	899914	25.0000	25.23
	64 Fluoranthene	202	16.057	16.057	(1.138)	895151	25.0000	27.21
	65 Pyrene	202	16.394	16.394	(0.892)	885516	25.0000	25.42
$	66 Terphenyl-d14	244	16.762	16.762	(0.912)	529915	25.0000	25.87
	67 Butylbenzylphthalate	149	17.676	17.676	(0.962)	410783	25.0000	24.39
	68 Benzo(a)anthracene	228	18.349	18.349	(0.999)	874088	25.0000	26.15
*	69 Chrysene-d12	240	18.370	18.370	(1.000)	578337	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.397	18.397	(1.001)	310273	25.0000	28.60
	71 Chrysene	228	18.413	18.413	(1.002)	816603	25.0000	26.09
	72 bis(2-Ethylhexyl)phthalate	149	18.696	18.696	(0.953)	561217	25.0000	25.52
*	134 Di-n-octylphthalate-d4	153	19.625	19.625	(1.000)	693606	20.0000	
	73 Di-n-octylphthalate	149	19.636	19.636	(1.001)	938838	25.0000	24.97

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	19.983	19.983	(0.975)	1009346	25.0000	25.95
75	Benzo(k)fluoranthene	252	20.015	20.015	(0.977)	977604	25.0000	24.35
187	Total Benzofluoranthenes	252	20.015	20.015	(0.977)	1861549	50.0000	49.77
76	Benzo(a)pyrene	252	20.416	20.416	(0.996)	915907	25.0000	25.00
* 77	Perylene-d12	264	20.496	20.496	(1.000)	580924	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.842	21.842	(1.066)	1276596	25.0000	26.05
79	Dibenzo(a,h)anthracene	278	21.874	21.874	(1.067)	997682	25.0000	26.49
80	Benzo(g,h,i)perylene	276	22.136	22.136	(1.080)	1135577	25.0000	25.69
90	N-Nitrosodimethylamine	74	1.978	1.978	(0.287)	190089	25.0000	25.59
103	Pyridine	79	1.957	1.957	(0.284)	345208	25.0000	26.00
91	Aniline	93	6.444	6.444	(0.936)	391455	25.0000	23.27
105	1-methylnaphthalene	141	10.262	10.262	(1.147)	449445	25.0000	25.68

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181001.D
Lab Smp Id: CC0818
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: CC0818
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182786	91393	365572	172311	-5.73
27 Naphthalene-d8	584137	292068	1168274	546358	-6.47
42 Acenaphthene-d10	320442	160221	640884	307752	-3.96
59 Phenanthrene-d10	503793	251896	1007586	488731	-2.99
69 Chrysene-d12	532343	266172	1064686	578337	8.64
134 Di-n-octylphthala	719428	359714	1438856	693606	-3.59
77 Perylene-d12	517269	258634	1034538	580924	12.31

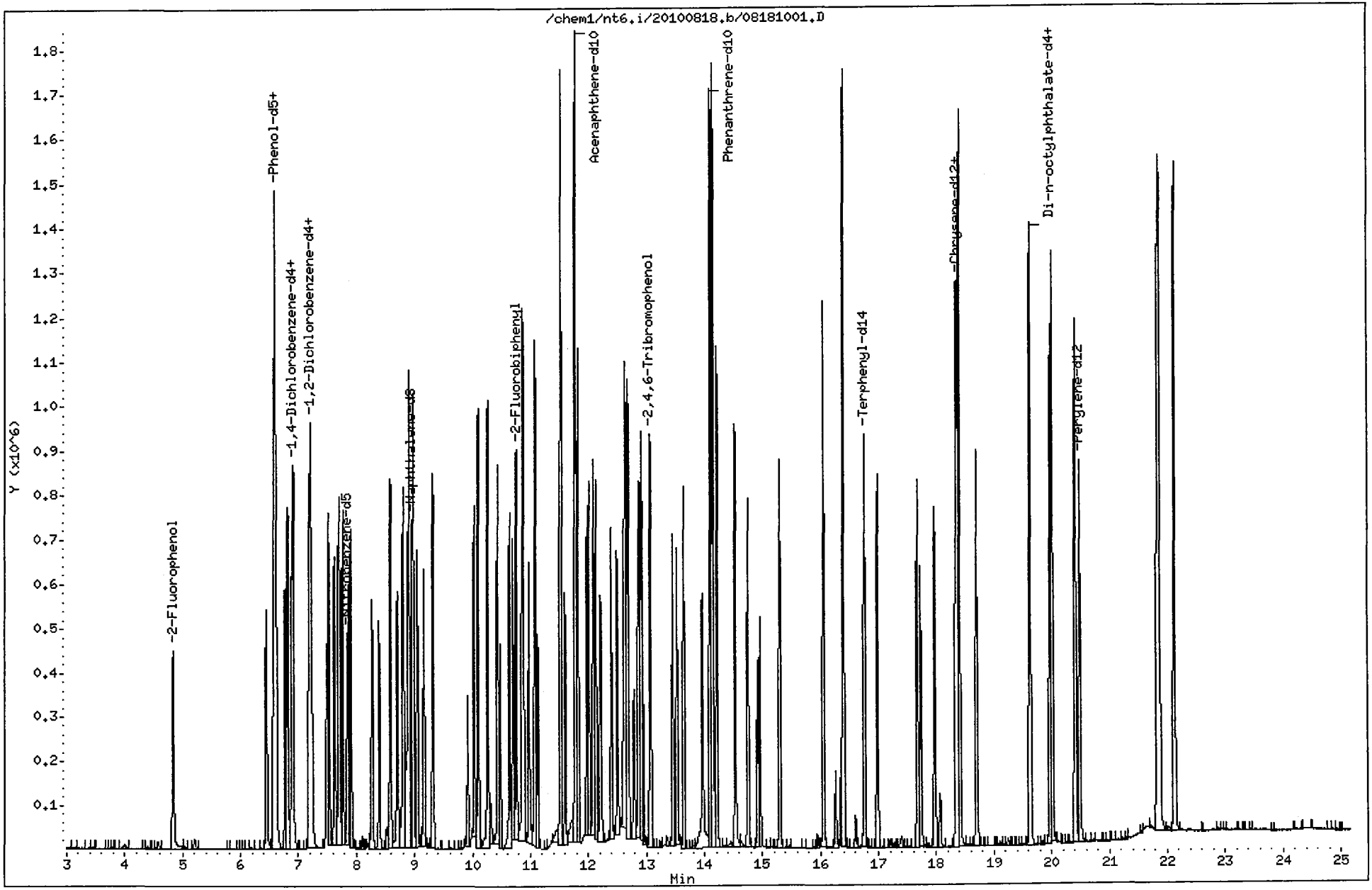
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.88	6.38	7.38	6.88	0.00
27 Naphthalene-d8	8.94	8.44	9.44	8.94	0.00
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	0.00
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
134 Di-n-octylphthala	19.63	19.13	20.13	19.63	0.00
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Data File: /chem1/nt6.i/20100818.b/08181001.D
Date : 18-AUG-2010 12:23
Client ID: CC0818
Sample Info: CC0818

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818

Instrument: nt6.i

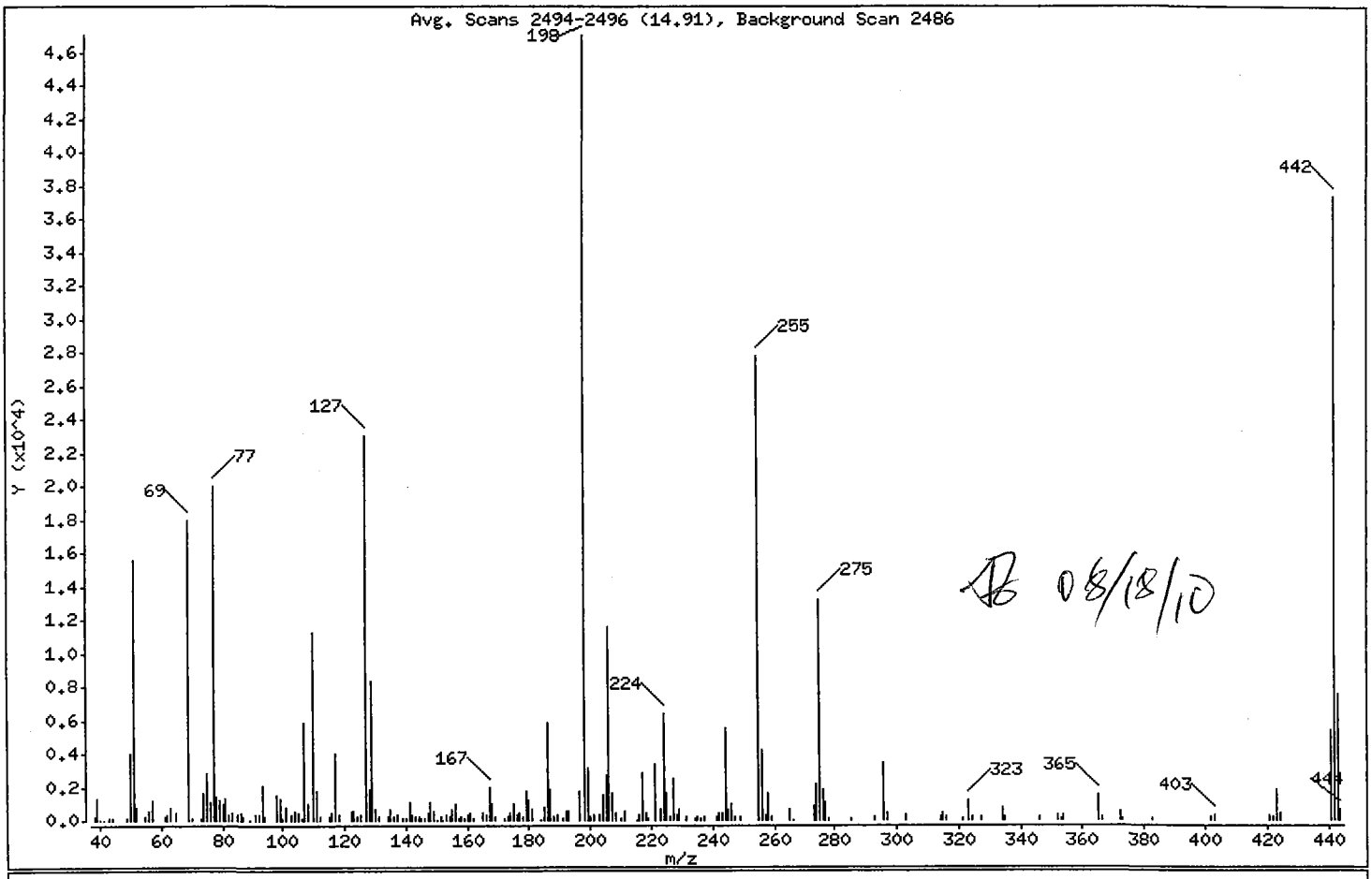
Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.25
70	Less than 2.00% of mass 69	0.12 (0.31)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 60.00% of mass 198	27.93
365	Greater than 1.00% of mass 198	3.14
441	0.01 - 24.00% of mass 442	11.50 (14.47)
442	50.00 - 200.00% of mass 198	79.48
443	15.00 - 24.00% of mass 442	16.12 (20.28)

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818 Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi Column diameter: 0.25

Data File: 08181001.D
Spectrum: Avg. Scans 2494-2496 (14.91), Background Scan 2486
Location of Maximum: 198.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	253	115.00	220	177.00	419	247.00	222
39.00	1318	116.00	446	178.00	185	249.00	214
40.00	52	117.00	4051	179.00	1724	255.00	27768
41.00	7	118.00	325	180.00	1180	256.00	4218
43.00	59	122.00	551	181.00	621	257.00	374
44.00	57	123.00	565	184.00	52	258.00	1618
49.00	116	124.00	257	185.00	760	259.00	231
50.00	3997	125.00	304	186.00	5895	265.00	641
51.00	15546	127.00	23000	187.00	1806	266.00	54
52.00	809	128.00	1810	188.00	198	273.00	915
55.00	221	129.00	8286	189.00	326	274.00	2148
56.00	559	130.00	664	191.00	127	275.00	13145
57.00	1181	131.00	177	192.00	537	276.00	1807
61.00	230	134.00	237	193.00	583	277.00	1102
62.00	276	135.00	609	196.00	1686	278.00	60
63.00	718	136.00	251	198.00	47056	285.00	61
65.00	465	137.00	310	199.00	3121	293.00	255
69.00	18000	139.00	66	200.00	264	296.00	3455
70.00	55	140.00	118	201.00	308	297.00	480
73.00	133	141.00	1087	203.00	279	303.00	367
74.00	1663	142.00	333	204.00	1471	314.00	178
75.00	2777	143.00	214	205.00	2719	315.00	394
76.00	1057	144.00	178	206.00	11622	316.00	233
77.00	20000	145.00	61	207.00	1660	321.00	60
78.00	1380	146.00	59	208.00	384	323.00	1236
79.00	1177	147.00	455	210.00	134	324.00	240
80.00	949	148.00	1090	211.00	553	327.00	206
81.00	1334	149.00	567	215.00	51	334.00	737
82.00	361	150.00	52	216.00	275	335.00	205
83.00	402	151.00	206	217.00	2789	346.00	208
85.00	286	152.00	52	218.00	414	352.00	301
86.00	395	153.00	301	219.00	62	353.00	147
87.00	222	154.00	253	221.00	3390	354.00	357
89.00	51	155.00	599	223.00	677	365.00	1477
91.00	340	156.00	987	224.00	6418	366.00	214

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818

Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08181001.D
Spectrum: Avg. Scans 2494-2496 (14.91), Background Scan 2486
Location of Maximum: 198.00
Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	329	157.00	122	225.00	1648	372.00	574
93.00	2038	158.00	193	226.00	200	373.00	129
94.00	188	159.00	128	227.00	2459	383.00	65
98.00	1464	160.00	350	228.00	377	402.00	221
99.00	1273	161.00	471	229.00	612	403.00	300
100.00	56	162.00	55	231.00	253	421.00	316
101.00	757	165.00	399	234.00	141	422.00	235
103.00	280	166.00	305	235.00	193	423.00	1791
104.00	504	167.00	1992	236.00	55	424.00	380
105.00	476	168.00	1024	237.00	267	441.00	5412
106.00	152	169.00	198	241.00	172	442.00	37400
107.00	5789	172.00	105	242.00	415	443.00	7584
108.00	984	173.00	258	243.00	385	444.00	622
110.00	11256	174.00	444	244.00	5510		
111.00	1694	175.00	931	245.00	700		
112.00	260	176.00	281	246.00	933		

Data File: /chem1/nt6.i/20100818.b/tune.b/08181001.D

Date : 18-AUG-2010 12:23

Client ID: DFTPP0818

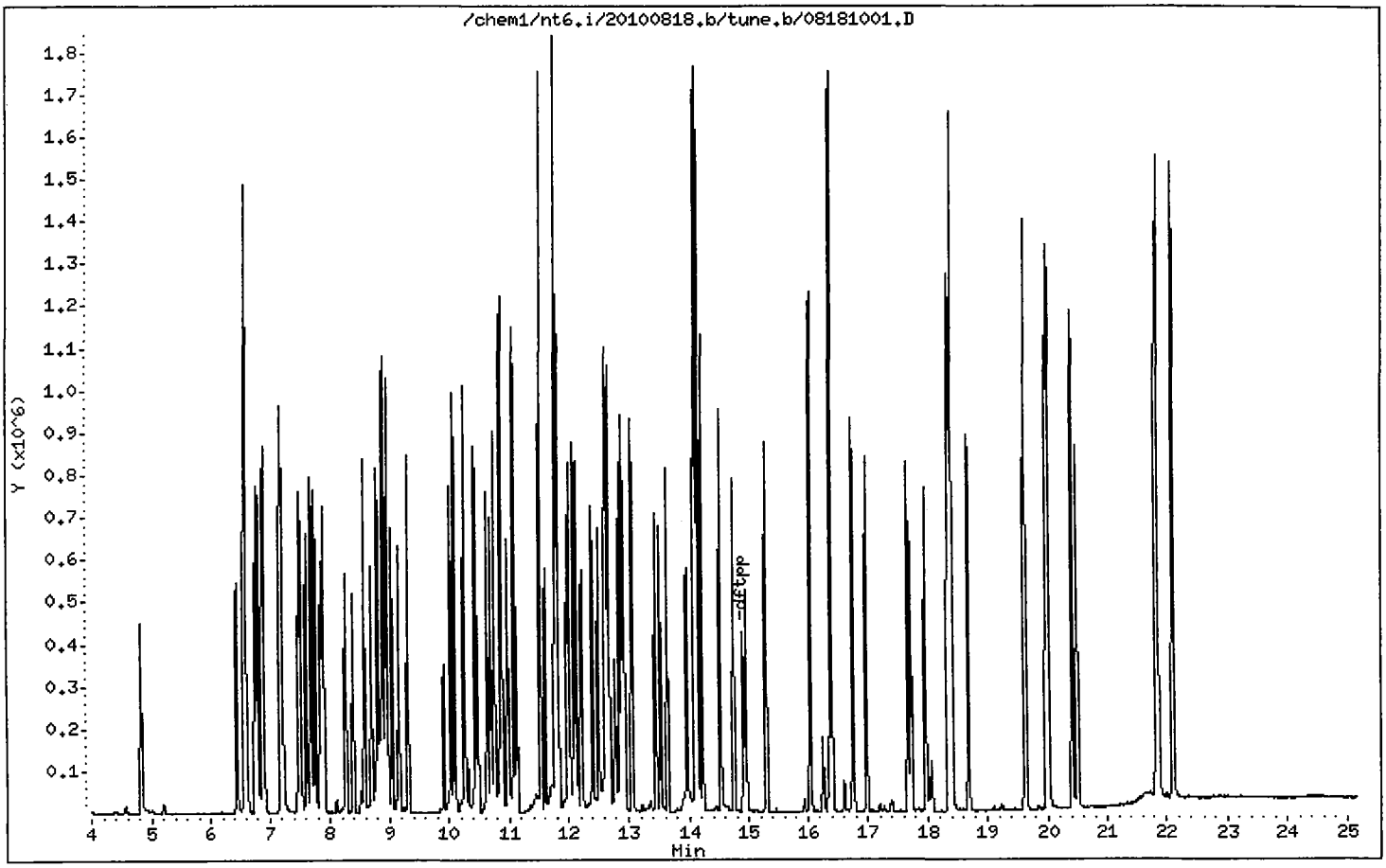
Instrument: nt6.i

Sample Info: DFTPP0818

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20100818.b/ddt.b/08181001.D ARI ID: CC0818
Method: /chem1/nt6.i/20100818.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 18-AUG-2010 12:23 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	13.969	125210
Benzidine	16.351	138709
4,4'-DDE	----	----
4,4'-DDD	17.270	4370
4,4'-DDT	17.735	245454

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

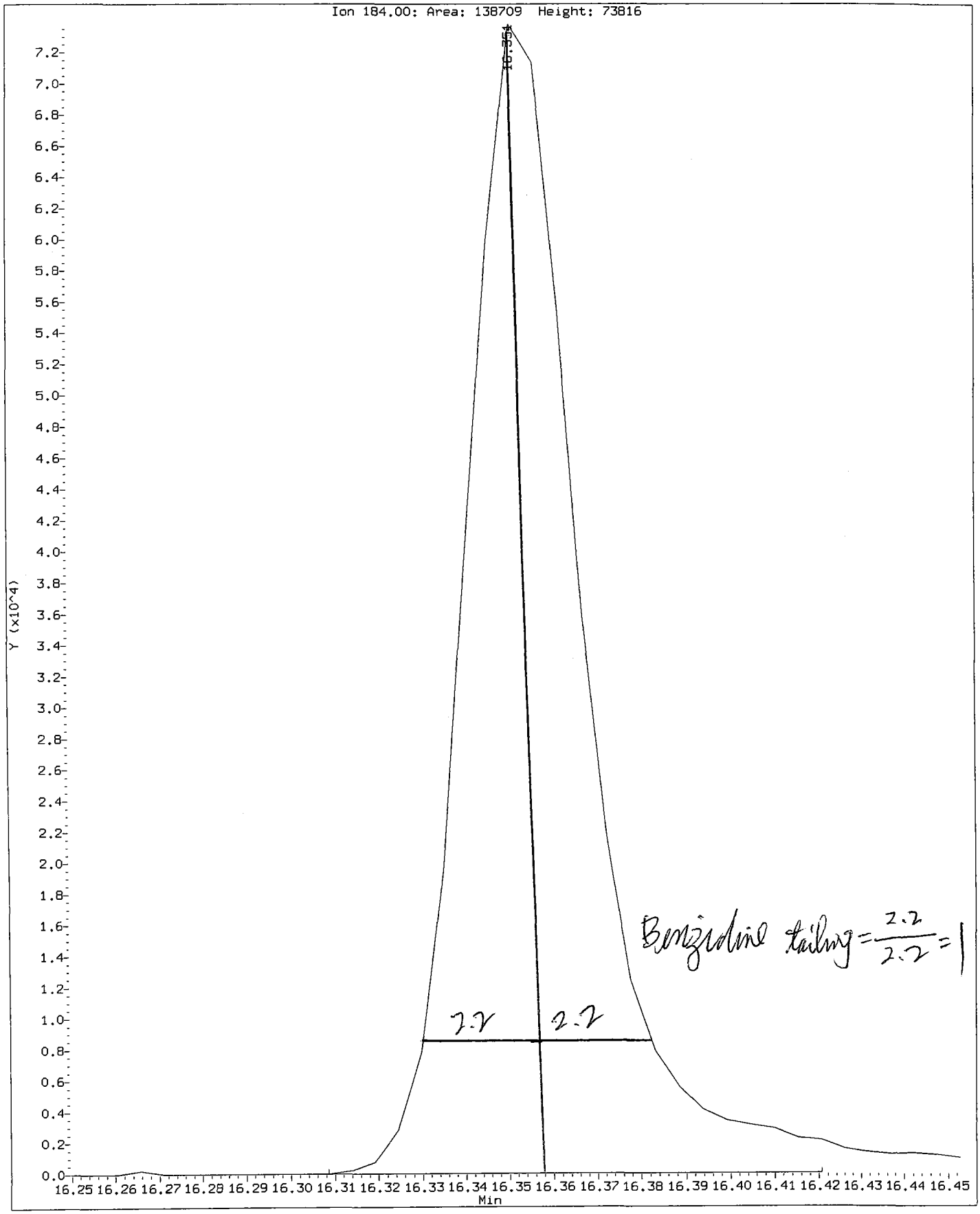
$$\text{DDT Percent Breakdown} = \frac{(0 + 4370) * 100}{(0 + 4370 + 245454)}$$

DDT Percent Breakdown = 1.7 %

08/18/10

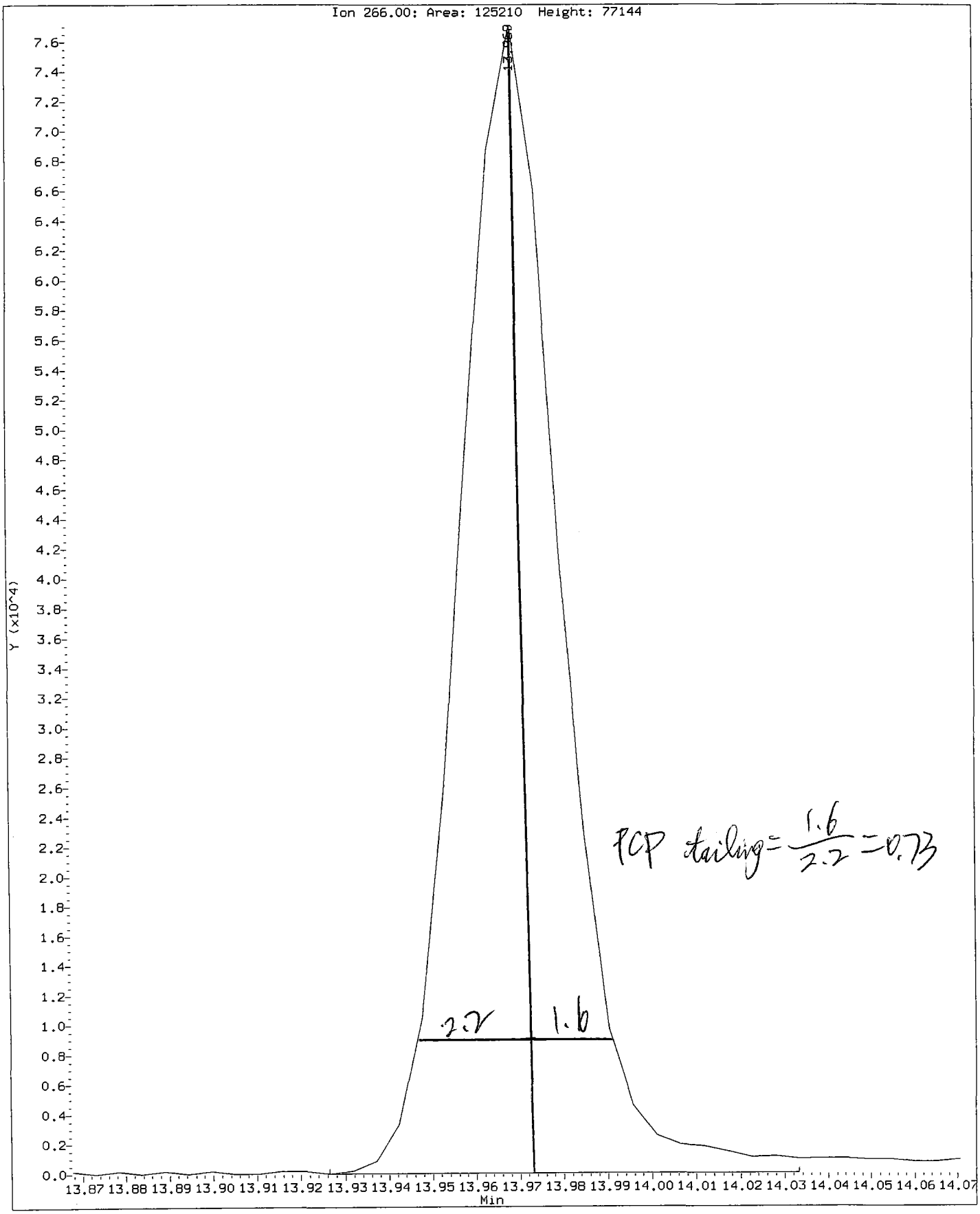
Data File: /chem1/nt6.i/20100818.b/ddt.b/08181001.D
Injection Date: 18-AUG-2010 12:23
Instrument: nt6.i
Client Sample ID: CC0818

Compound: Benzidine
CAS Number:



Data File: /chem1/nt6.i/20100818.b/ddt.b/08181001.D
Injection Date: 18-AUG-2010 12:23
Instrument: nt6.i
Client Sample ID: CC0818

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181005.D
Lab Smp Id: RG94K Client Smp ID: MW12-ER-080210
Inj Date : 18-AUG-2010 14:40
Operator : JZ Inst ID: nt6.i
Smp Info : RG94K
Misc Info : 10-18604
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AB 08/18/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 27 Naphthalene-d8	136	8.933	8.943	(1.000)	583098	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.749	10.759	(0.913)	342242	14.0529	14.05
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.769	11.774	(1.000)	347883	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.109	14.113	(1.000)	557256	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	16.758	16.762	(0.913)	433982	19.5945	19.59
68 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 69 Chrysene-d12	240	18.360	18.370	(1.000)	625212	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.491	20.496	(1.000)	593383	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181005.D
Lab Smp Id: RG94K
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-ER-080210
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	583098	-0.18
42 Acenaphthene-d10	320442	160221	640884	347883	8.56
59 Phenanthrene-d10	503793	251896	1007586	557256	10.61
69 Chrysene-d12	532343	266172	1064686	625212	17.45
77 Perylene-d12	517269	258634	1034538	593383	14.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.93	-0.11
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.04
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.05
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

RECOVERY REPORT

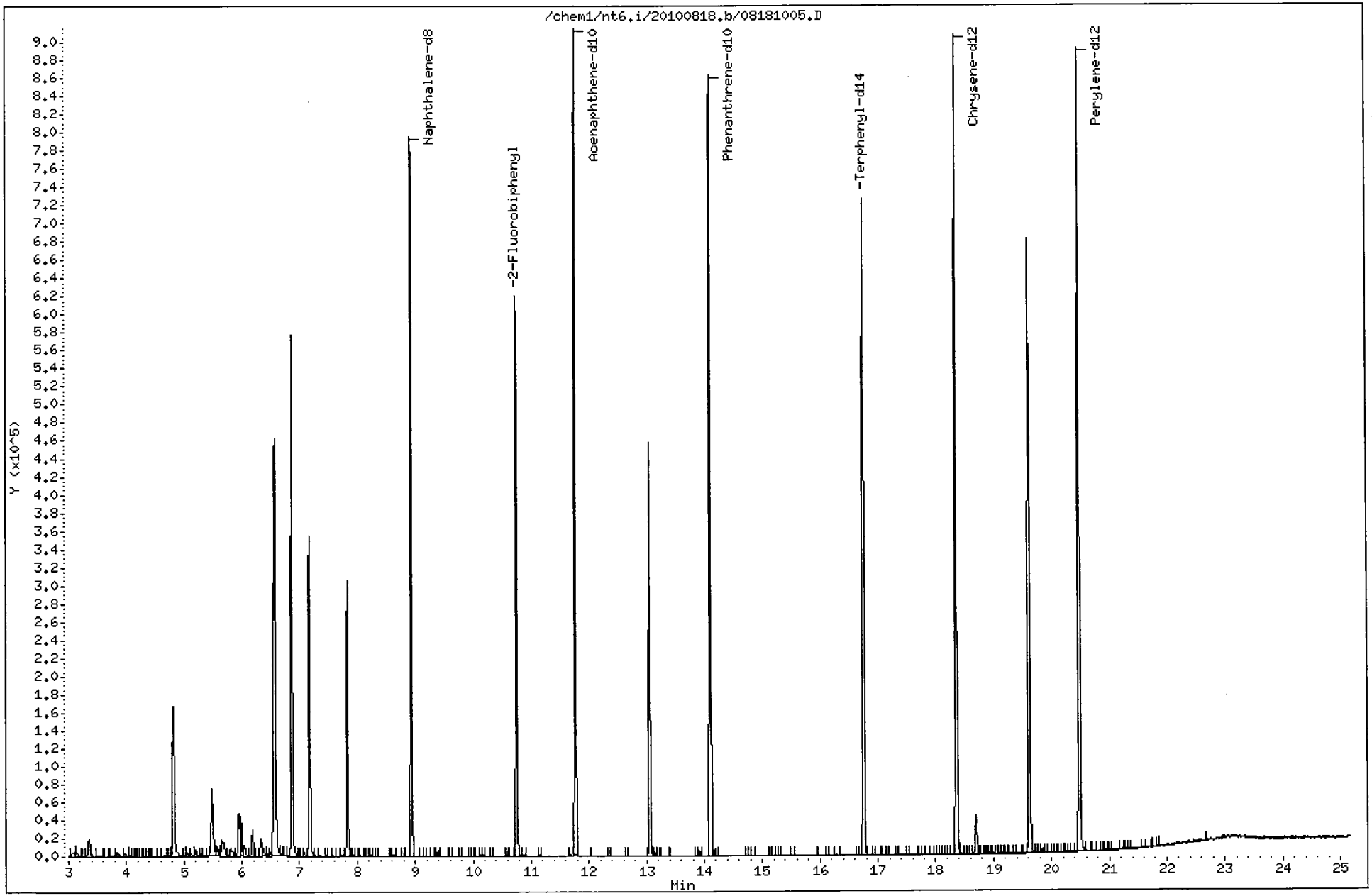
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: RG94K
Client Smp ID: MW12-ER-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	14.05	56.21	38-100
$ 66 Terphenyl-d14	25.00	19.59	78.38	23-120

Data File: /chem1/nt6.i/20100818.b/08181005.D
Date : 18-AUG-2010 14:40
Client ID: MW12-ER-080210
Sample Info: RG94K
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94K 160917



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181002.D
Lab Smp Id: RG94MBW1 Client Smp ID: RG94MBW1
Inj Date : 18-AUG-2010 13:02
Operator : JZ Inst ID: nt6.i
Smp Info : RG94MBW1,
Misc Info : 10-18604
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
*	27 Naphthalene-d8	136	8.938	8.943	(1.000)	599179	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.754	10.759	(0.913)	373000	14.8177	14.82
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.774	11.774	(1.000)	359581	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.108	14.113	(1.000)	575665	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	16.762	16.762	(0.913)	499719	22.1688	22.17
	68 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 69 Chrysene-d12	240	18.365	18.370	(1.000)	636315	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.491	20.496	(1.000)	607941	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181002.D
Lab Smp Id: RG94MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: RG94MBW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	599179	2.58
42 Acenaphthene-d10	320442	160221	640884	359581	12.21
59 Phenanthrene-d10	503793	251896	1007586	575665	14.27
69 Chrysene-d12	532343	266172	1064686	636315	19.53
77 Perylene-d12	517269	258634	1034538	607941	17.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

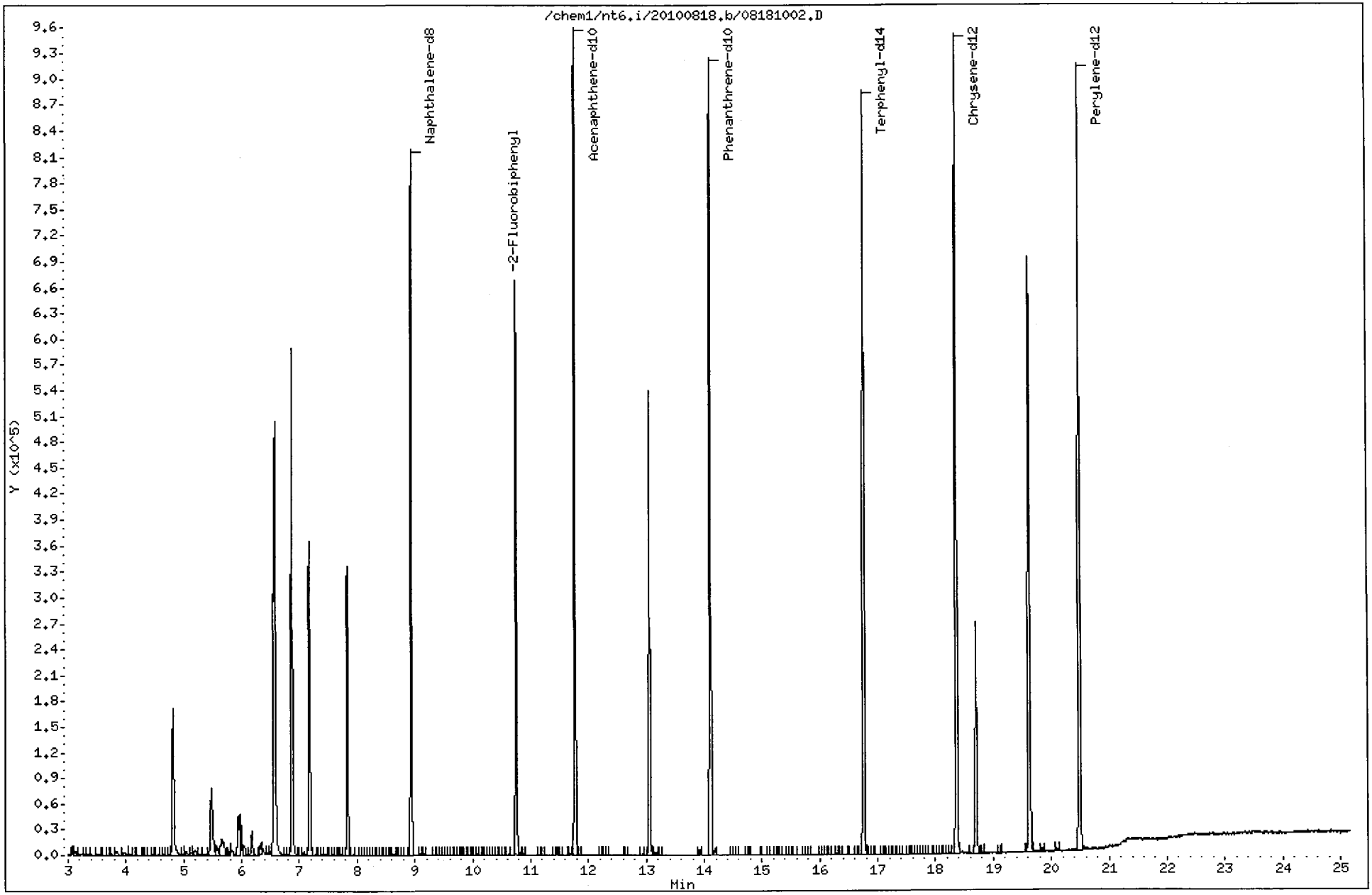
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: RG94MBW1
Client Smp ID: RG94MBW1
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: BLANK
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	14.82	59.27	38-100
$ 66 Terphenyl-d14	25.00	22.17	88.68	23-120

Data File: /chem1/nt6.i/20100818.b/08181002.D
Date : 18-AUG-2010 13:02
Client ID: RG94MBW1
Sample Info: RG94MBW1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94-06922



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181003.D
Lab Smp Id: RG94LCSW1 Client Smp ID: RG94LCSW1
Inj Date : 18-AUG-2010 13:34
Operator : JZ Inst ID: nt6.i
Smp Info : RG94LCSW1,
Misc Info : 10-18604
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/18/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	601952	20.0000	
28 Naphthalene	128	8.964	8.975	(1.003)	394024	11.5815	11.58
32 2-Methylnaphthalene	141	10.091	10.097	(1.129)	229595	12.2967	12.30
105 1-methylnaphthalene	141	10.257	10.262	(1.148)	235146	12.1925	12.19
$ 36 2-Fluorobiphenyl	172	10.754	10.759	(0.913)	375813	15.4050	15.41
40 Acenaphthylene	152	11.517	11.523	(0.978)	461345	12.8636	12.86
* 42 Acenaphthene-d10	164	11.774	11.774	(1.000)	348479	20.0000	
44 Acenaphthene	153	11.822	11.827	(1.004)	279998	12.5016	12.50
46 Dibenzofuran	168	12.078	12.089	(1.026)	438667	14.7454	14.75
49 Fluorene	166	12.634	12.639	(1.073)	368833	14.5519	14.55
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	573375	20.0000	
60 Phenanthrene	178	14.145	14.151	(1.003)	530532	14.8961	14.90
61 Anthracene	178	14.215	14.220	(1.008)	459191	12.4807	12.48(R)
64 Fluoranthene	202	16.052	16.057	(1.138)	655204	16.9779	16.98
65 Pyrene	202	16.394	16.394	(0.893)	645474	17.3941	17.39
$ 66 Terphenyl-d14	244	16.757	16.762	(0.912)	476504	21.8307	21.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	68 Benzo(a)anthracene	228	18.343	18.349	(0.999)	615276	17.2742	17.27
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	616150	20.0000	
	71 Chrysene	228	18.407	18.413	(1.002)	567848	17.0320	17.03
	187 Total Benzofluoranthenes	252	20.010	20.015	(0.977)	1284233	34.1327	34.13
	76 Benzo(a)pyrene	252	20.405	20.416	(0.996)	114161	3.09828	3.098(R)
*	77 Perylene-d12	264	20.490	20.496	(1.000)	584320	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.836	21.842	(1.066)	831825	16.8752	16.88
	79 Dibenzo(a,h)anthracene	278	21.868	21.874	(1.067)	640684	16.9141	16.91
	80 Benzo(g,h,i)perylene	276	22.125	22.136	(1.080)	703345	15.8179	15.82

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181003.D
Lab Smp Id: RG94LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: RG94LCSW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	601952	3.05
42 Acenaphthene-d10	320442	160221	640884	348479	8.75
59 Phenanthrene-d10	503793	251896	1007586	573375	13.81
69 Chrysene-d12	532343	266172	1064686	616150	15.74
77 Perylene-d12	517269	258634	1034538	584320	12.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG94LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Client SDG: RG94
Fraction: SV
Client Smp ID: RG94LCSW1
Operator: JZ
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
28 Naphthalene	25.00	11.58	46.33	37-100
32 2-Methylnaphthalen	25.00	12.30	49.19	43-101
105 1-methylnaphthalen	25.00	12.19	48.77	39-100
40 Acenaphthylene	25.00	12.86	51.45	44-100
44 Acenaphthene	25.00	12.50	50.01	41-100
46 Dibenzofuran	25.00	14.75	58.98	44-100
49 Fluorene	25.00	14.55	58.21	49-100
60 Phenanthrene	25.00	14.90	59.58	48-100
61 Anthracene	25.00	12.48	49.92*	50-100
64 Fluoranthene	25.00	16.98	67.91	54-100
65 Pyrene	25.00	17.39	69.58	41-105
68 Benzo(a)anthracene	25.00	17.27	69.10	49-100
71 Chrysene	25.00	17.03	68.13	50-100
187 Total Benzofluoran	50.00	34.13	68.27	30-160
76 Benzo(a)pyrene	25.00	3.098	12.39*	50-100
78 Indeno(1,2,3-cd)py	25.00	16.88	67.50	33-101
79 Dibenzo(a,h)anthra	25.00	16.91	67.66	37-104
80 Benzo(g,h,i)peryle	25.00	15.82	63.27	33-107

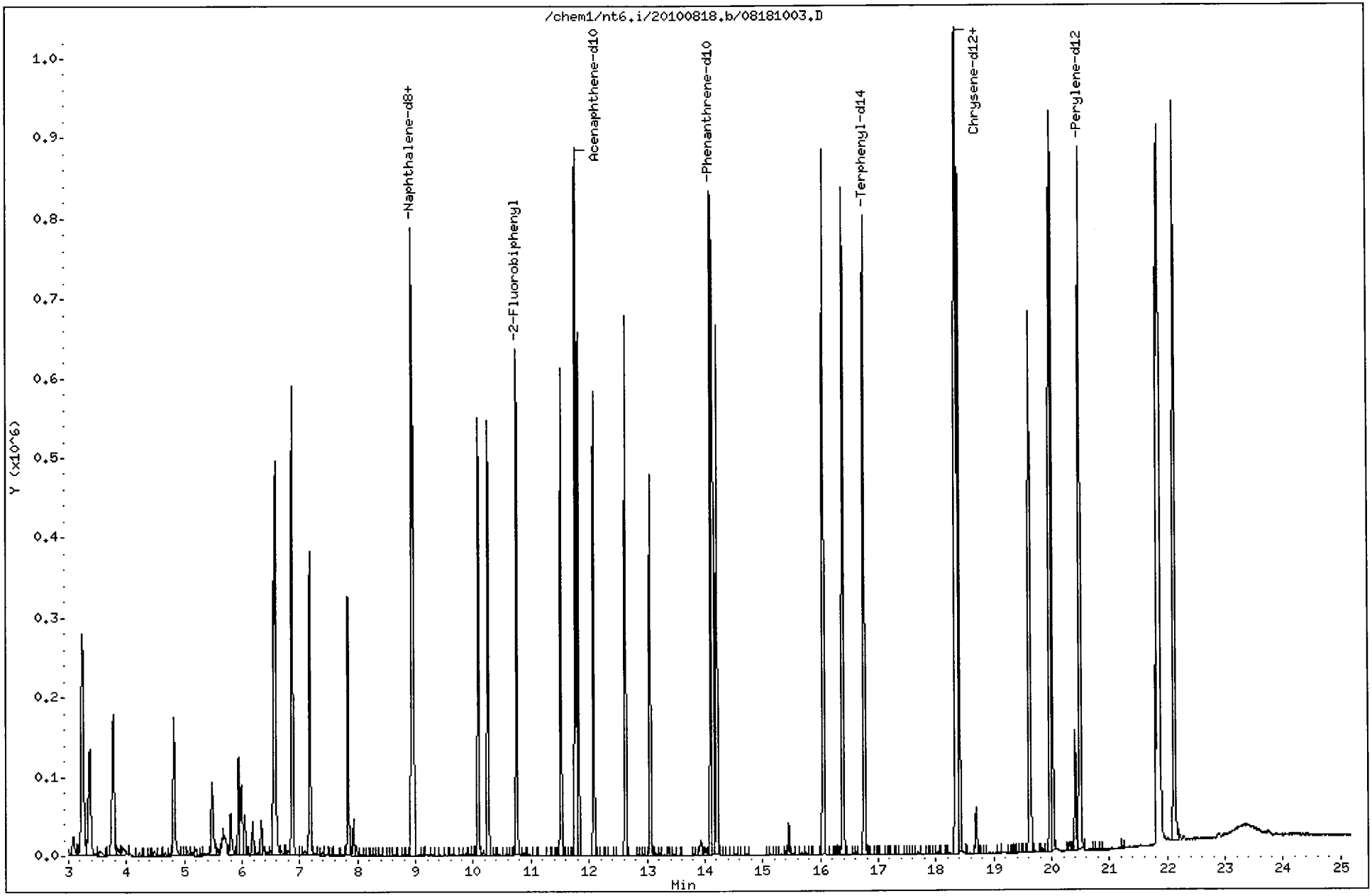
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	15.41	61.62	38-100
$ 66 Terphenyl-d14	25.00	21.83	87.32	23-120

Data File: /chem1/nt6.i/20100818.b/08181003.D
Date : 18-AUG-2010 13:34
Client ID: RG94LCSW1
Sample Info: RG94LCSW1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ
Column diameter: 0.32

RG94LCSW1 99527



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181004.D
Lab Smp Id: RG94LCSDW1 Client Smp ID: RG94LCSDW1
Inj Date : 18-AUG-2010 14:07
Operator : JZ Inst ID: nt6.i
Smp Info : RG94LCSDW1,
Misc Info : 10-18604
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 18-Aug-2010 17:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/18/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	596145	20.0000	
28 Naphthalene	128	8.964	8.975	(1.003)	373649	11.0896	11.09
32 2-Methylnaphthalene	141	10.091	10.097	(1.129)	217172	11.7447	11.74
105 1-methylnaphthalene	141	10.257	10.262	(1.148)	224078	11.7318	11.73
$ 36 2-Fluorobiphenyl	172	10.754	10.759	(0.913)	350657	14.6541	14.65
40 Acenaphthylene	152	11.517	11.523	(0.978)	453986	12.9052	12.91
* 42 Acenaphthene-d10	164	11.774	11.774	(1.000)	341816	20.0000	
44 Acenaphthene	153	11.822	11.827	(1.004)	269412	12.2635	12.26
46 Dibenzofuran	168	12.084	12.089	(1.026)	426227	14.6065	14.61
49 Fluorene	166	12.628	12.639	(1.073)	359736	14.4696	14.47
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	564252	20.0000	
60 Phenanthrene	178	14.140	14.151	(1.002)	525268	14.9867	14.99
61 Anthracene	178	14.215	14.220	(1.008)	469509	12.9674	12.97
64 Fluoranthene	202	16.052	16.057	(1.138)	654429	17.2319	17.23
65 Pyrene	202	16.394	16.394	(0.892)	647288	17.4356	17.44
$ 66 Terphenyl-d14	244	16.757	16.762	(0.912)	463030	21.2044	21.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	68 Benzo(a)anthracene	228	18.343	18.349	(0.999)	618741	17.3641	17.36
*	69 Chrysene-d12	240	18.370	18.370	(1.000)	616413	20.0000	
	71 Chrysene	228	18.407	18.413	(1.002)	571841	17.1445	17.14
	187 Total Benzofluoranthenes	252	20.010	20.015	(0.977)	1298369	34.4063	34.41
	76 Benzo(a)pyrene	252	20.410	20.416	(0.996)	255845	6.92294	6.923(R)
*	77 Perylene-d12	264	20.490	20.496	(1.000)	586055	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.836	21.842	(1.066)	839930	16.9892	16.99
	79 Dibenzo(a,h)anthracene	278	21.868	21.874	(1.067)	645121	16.9808	16.98
	80 Benzo(g,h,i)perylene	276	22.125	22.136	(1.080)	716440	16.0647	16.06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181004.D
Lab Smp Id: RG94LCSDW1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: RG94LCSDW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	596145	2.06
42 Acenaphthene-d10	320442	160221	640884	341816	6.67
59 Phenanthrene-d10	503793	251896	1007586	564252	12.00
69 Chrysene-d12	532343	266172	1064686	616413	15.79
77 Perylene-d12	517269	258634	1034538	586055	13.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG94LCSDW1
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18604

Client SDG: RG94
Fraction: SV
Client Smp ID: RG94LCSDW1
Operator: JZ
SampleType: LCSD
Quant Type: ISTD

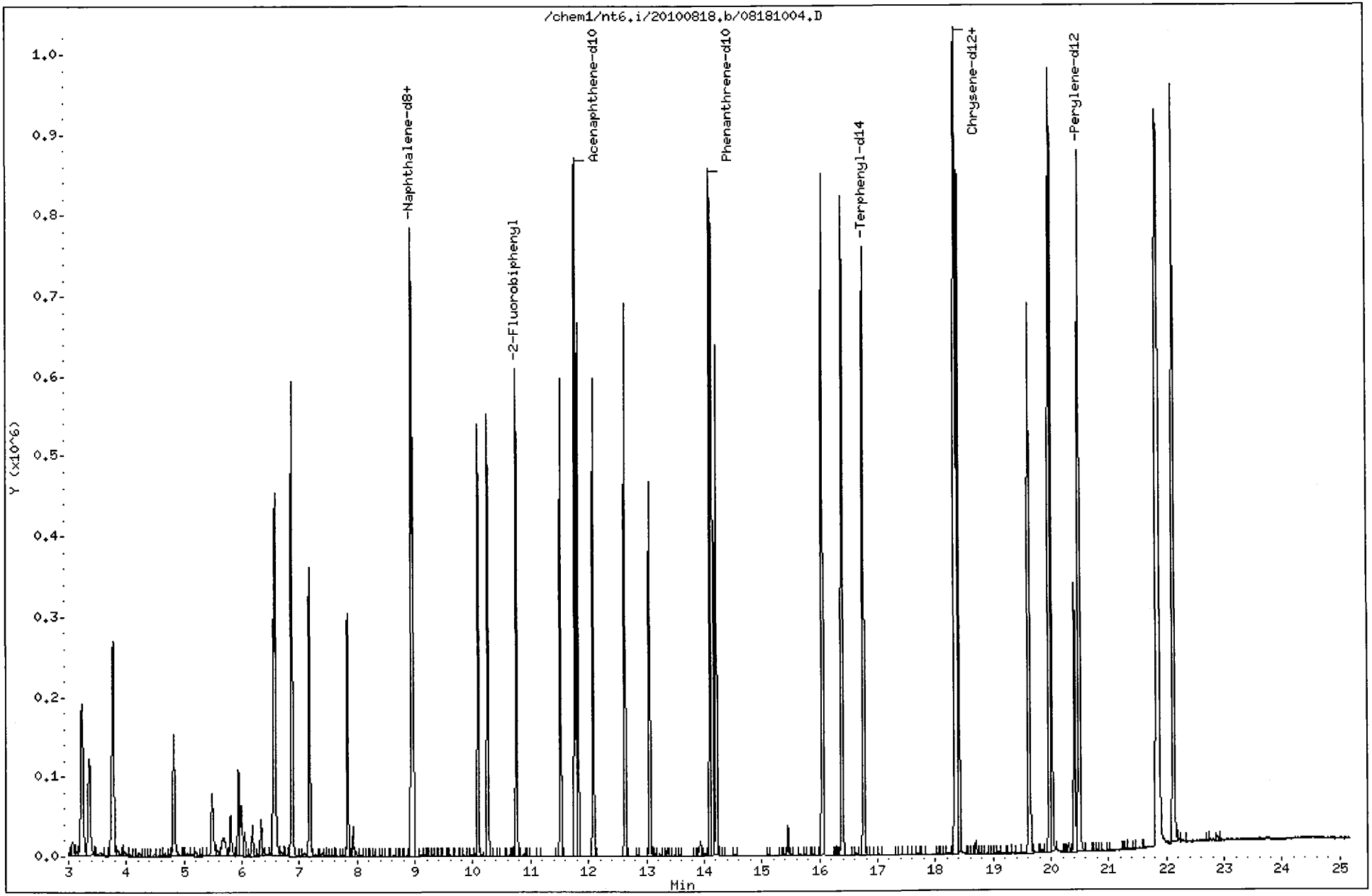
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
28 Naphthalene	25.00	11.09	44.36	37-100
32 2-Methylnaphthalen	25.00	11.74	46.98	43-101
105 1-methylnaphthalen	25.00	11.73	46.93	39-100
40 Acenaphthylene	25.00	12.91	51.62	44-100
44 Acenaphthene	25.00	12.26	49.05	41-100
46 Dibenzofuran	25.00	14.61	58.43	44-100
49 Fluorene	25.00	14.47	57.88	49-100
60 Phenanthrene	25.00	14.99	59.95	48-100
61 Anthracene	25.00	12.97	51.87	50-100
64 Fluoranthene	25.00	17.23	68.93	54-100
65 Pyrene	25.00	17.44	69.74	41-105
68 Benzo(a)anthracene	25.00	17.36	69.46	49-100
71 Chrysene	25.00	17.14	68.58	50-100
187 Total Benzofluoran	50.00	34.41	68.81	30-160
76 Benzo(a)pyrene	25.00	6.923	27.69*	50-100
78 Indeno(1,2,3-cd)py	25.00	16.99	67.96	33-101
79 Dibenzo(a,h)anthra	25.00	16.98	67.92	37-104
80 Benzo(g,h,i)peryle	25.00	16.06	64.26	33-107

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	14.65	58.62	38-100
$ 66 Terphenyl-d14	25.00	21.20	84.82	23-120

Data File: /chem1/nt6.i/20100818.b/08181004.D
Date : 18-AUG-2010 14:07
Client ID: RG94LCSDW1
Sample Info: RG94LCSDW1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94:69932



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181009.D
Lab Smp Id: RG94MBS1 Client Smp ID: RG94MBS1
Inj Date : 18-AUG-2010 16:51
Operator : JZ Inst ID: nt6.i
Smp Info : RG94MBS1,
Misc Info : 10-18601
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

03/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.939	8.943	(1.000)	578412	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.755	10.759	(0.914)	389080	16.2676	325.4
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.770	11.774	(1.000)	341652	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.109	14.113	(1.000)	554087	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 66 Terphenyl-d14	244	16.759	16.762	(0.913)	484093	20.7854	415.7
68 Benzo(a)anthracene	228	Compound Not Detected.					
* 69 Chrysene-d12	240	18.361	18.370	(1.000)	657444	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	20.492	20.496	(1.000)	664920	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181009.D
Lab Smp Id: RG94MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: RG94MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	578412	-0.98
42 Acenaphthene-d10	320442	160221	640884	341652	6.62
59 Phenanthrene-d10	503793	251896	1007586	554087	9.98
69 Chrysene-d12	532343	266172	1064686	657444	23.50
77 Perylene-d12	517269	258634	1034538	664920	28.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.04
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.03
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.05
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

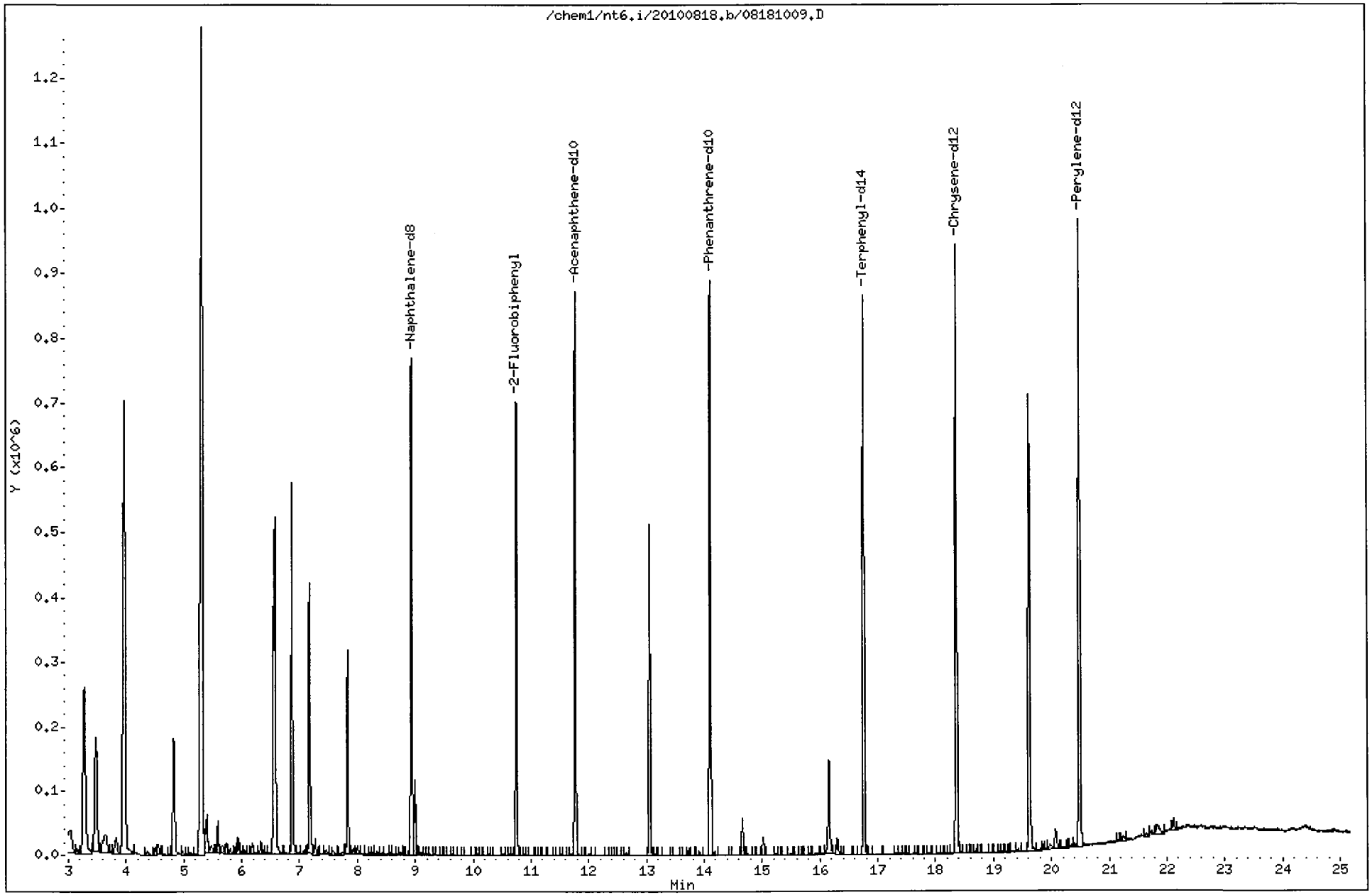
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94MBS1
Client Smp ID: RG94MBS1
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: BLANK
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	325.4	65.07	34-100
$ 66 Terphenyl-d14	500.0	415.7	83.14	35-112

Data File: /chem1/nt6.i/20100818.b/08181009.D
Date : 18-AUG-2010 16:51
Client ID: RG94MBS1
Sample Info: RG94MBS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



RG94MBS1

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181010.D
Lab Smp Id: RG94LCSS1 Client Smp ID: RG94LCSS1
Inj Date : 18-AUG-2010 17:24
Operator : JZ Inst ID: nt6.i
Smp Info : RG94LCSS1,
Misc Info : 10-18601
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

NR 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.937	8.943	(1.000)	588637	20.0000	
28 Naphthalene	128	8.969	8.975	(1.004)	450630	13.5450	270.9
32 2-Methylnaphthalene	141	10.091	10.097	(1.129)	265120	14.5206	290.4
105 1-methylnaphthalene	141	10.256	10.262	(1.148)	265658	14.0862	281.7
$ 36 2-Fluorobiphenyl	172	10.753	10.759	(0.913)	390390	16.4285	328.6
40 Acenaphthylene	152	11.517	11.523	(0.978)	504383	14.4379	288.8
* 42 Acenaphthene-d10	164	11.773	11.774	(1.000)	339445	20.0000	
44 Acenaphthene	153	11.821	11.827	(1.004)	290687	13.3243	266.5
46 Dibenzofuran	168	12.083	12.089	(1.026)	444231	15.3299	306.6
49 Fluorene	166	12.633	12.639	(1.073)	363533	14.7245	294.5
* 59 Phenanthrene-d10	188	14.107	14.113	(1.000)	555727	20.0000	
60 Phenanthrene	178	14.145	14.151	(1.003)	512713	14.8529	297.1
61 Anthracene	178	14.214	14.220	(1.008)	512049	14.3593	287.2
64 Fluoranthene	202	16.051	16.057	(1.138)	634285	16.9577	339.2
65 Pyrene	202	16.393	16.394	(0.892)	631169	16.1515	323.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.762	16.762	(0.912)	468012	20.3612	407.2
	68 Benzo(a)anthracene	228	18.343	18.349	(0.999)	647881	17.2730	345.5
*	69 Chrysene-d12	240	18.369	18.370	(1.000)	648848	20.0000	
	71 Chrysene	228	18.407	18.413	(1.002)	589085	16.7786	335.6
	187 Total Benzofluoranthenes	252	20.009	20.015	(0.976)	1421375	33.1467	662.9
	76 Benzo(a)pyrene	252	20.415	20.416	(0.996)	613554	14.6103	292.2
*	77 Perylene-d12	264	20.495	20.496	(1.000)	665957	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.841	21.842	(1.066)	919384	16.3651	327.3
	79 Dibenzo(a,h)anthracene	278	21.868	21.874	(1.067)	710862	16.4663	329.3
	80 Benzo(g,h,i)perylene	276	22.130	22.136	(1.080)	788474	15.5587	311.2

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181010.D
Lab Smp Id: RG94LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: RG94LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	588637	0.77
42 Acenaphthene-d10	320442	160221	640884	339445	5.93
59 Phenanthrene-d10	503793	251896	1007586	555727	10.31
69 Chrysene-d12	532343	266172	1064686	648848	21.89
77 Perylene-d12	517269	258634	1034538	665957	28.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.07
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.01
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG94LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Client SDG: RG94
Fraction: SV
Client Smp ID: RG94LCSS1
Operator: JZ
SampleType: LCS
Quant Type: ISTD

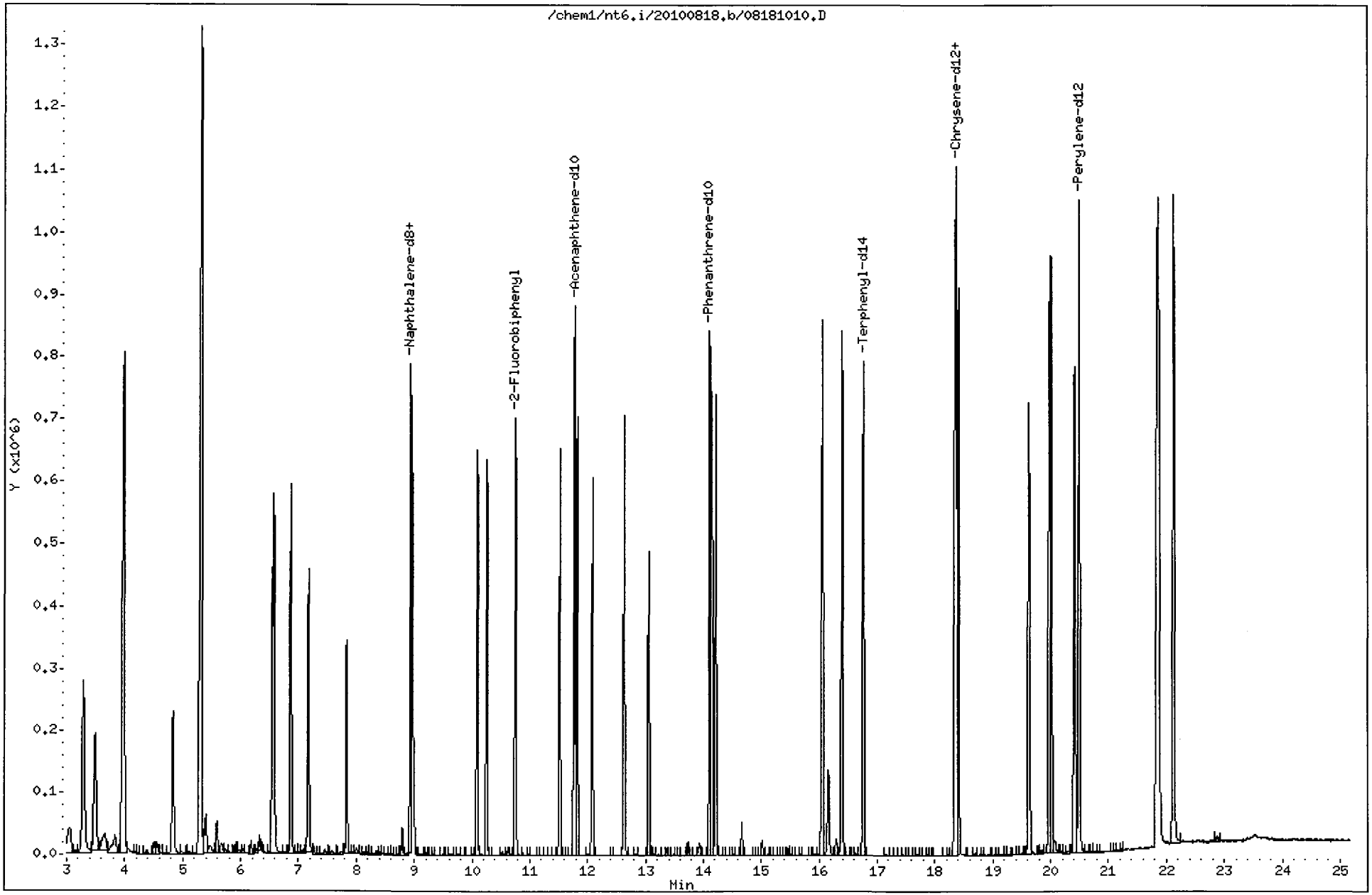
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	500.0	270.9	54.18	37-100
32 2-Methylnaphthalen	500.0	290.4	58.08	43-101
105 1-methylnaphthalen	500.0	281.7	56.34	39-100
40 Acenaphthylene	500.0	288.8	57.75	44-100
44 Acenaphthene	500.0	266.5	53.30	41-100
46 Dibenzofuran	500.0	306.6	61.32	44-100
49 Fluorene	500.0	294.5	58.90	49-100
60 Phenanthrene	500.0	297.1	59.41	48-100
61 Anthracene	500.0	287.2	57.44	50-100
64 Fluoranthene	500.0	339.2	67.83	54-100
65 Pyrene	500.0	323.0	64.61	41-105
68 Benzo(a)anthracene	500.0	345.5	69.09	49-100
71 Chrysene	500.0	335.6	67.11	50-100
187 Total Benzofluoran	1000	662.9	66.29	30-160
76 Benzo(a)pyrene	500.0	292.2	58.44	50-100
78 Indeno(1,2,3-cd)py	500.0	327.3	65.46	33-101
79 Dibenzo(a,h)anthra	500.0	329.3	65.87	37-104
80 Benzo(g,h,i)peryle	500.0	311.2	62.23	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	328.6	65.71	34-100
$ 66 Terphenyl-d14	500.0	407.2	81.44	35-112

Data File: /chem1/nt6.i/20100818.b/08181010.D
Date : 18-AUG-2010 17:24
Client ID: RG94LCSS1
Sample Info: RG94LCSS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG941 : 66912



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181011.D
Lab Smp Id: RG94A Client Smp ID: MW14-15-16.5-080210
Inj Date : 18-AUG-2010 17:57
Operator : JZ Inst ID: nt6.i
Smp Info : RG94A
Misc Info : 10-18594
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AL 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	30.30000	Weight of sample extracted (g)
M	15.90000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.937	8.943	(1.000)	587341	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.753	10.759	(0.913)	388447	16.0324	314.6
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.773	11.774	(1.000)	346099	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.107	14.113	(1.000)	566818	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.762	16.762	(0.913)	466250	19.3749	380.2
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.364	18.370	(1.000)	679310	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.495	20.496	(1.000)	676681	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181011.D
Lab Smp Id: RG94A
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18594

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW14-15-16.5-08C
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	587341	0.55
42 Acenaphthene-d10	320442	160221	640884	346099	8.01
59 Phenanthrene-d10	503793	251896	1007586	566818	12.51
69 Chrysene-d12	532343	266172	1064686	679310	27.61
77 Perylene-d12	517269	258634	1034538	676681	30.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.07
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.01
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Analytical Resources, Inc.

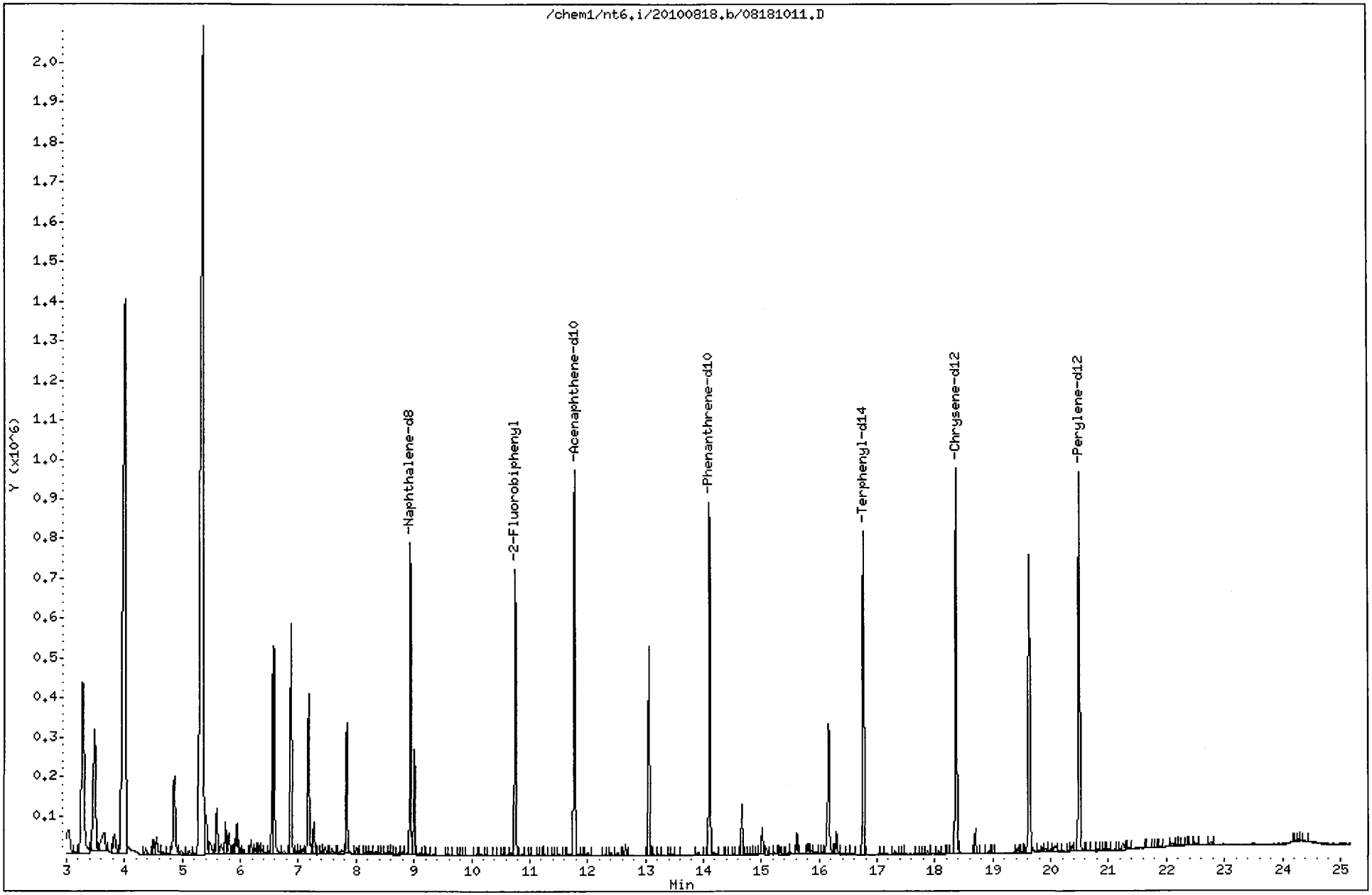
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94A
Client Smp ID: MW14-15-16.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18594

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	490.5	314.6	64.13	34-100
$ 66 Terphenyl-d14	490.5	380.2	77.50	35-112

Data File: /chem1/nt6.i/20100818.b/08181011.D
Date : 18-AUG-2010 17:57
Client ID: MW14-15-16.5-080210
Instrument: nt6.i
Sample Info: RG94A
Volume Injected (uL): 1.0
Operator: JZ
Column phase: ZB-5msi
Column diameter: 0.32

RG94-080917



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181012.D
Lab Smp Id: RG94B Client Smp ID: MW14-22.5-24-080210
Inj Date : 18-AUG-2010 18:29
Operator : JZ Inst ID: nt6.i
Smp Info : RG94B
Misc Info : 10-18595
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	31.10000	Weight of sample extracted (g)
M	18.20000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.937	8.943	(1.000)	593261	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.753	10.759	(0.913)	380041	15.4730	304.1
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.773	11.774	(1.000)	350852	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.107	14.113	(1.000)	569953	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.756	16.762	(0.912)	476909	19.8316	389.8
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.364	18.370	(1.000)	678836	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.490	20.496	(1.000)	677073	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 *Dibenzo*(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181012.D
Lab Smp Id: RG94B
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18595

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW14-22.5-24-080
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	593261	1.56
42 Acenaphthene-d10	320442	160221	640884	350852	9.49
59 Phenanthrene-d10	503793	251896	1007586	569953	13.13
69 Chrysene-d12	532343	266172	1064686	678836	27.52
77 Perylene-d12	517269	258634	1034538	677073	30.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.07
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.01
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

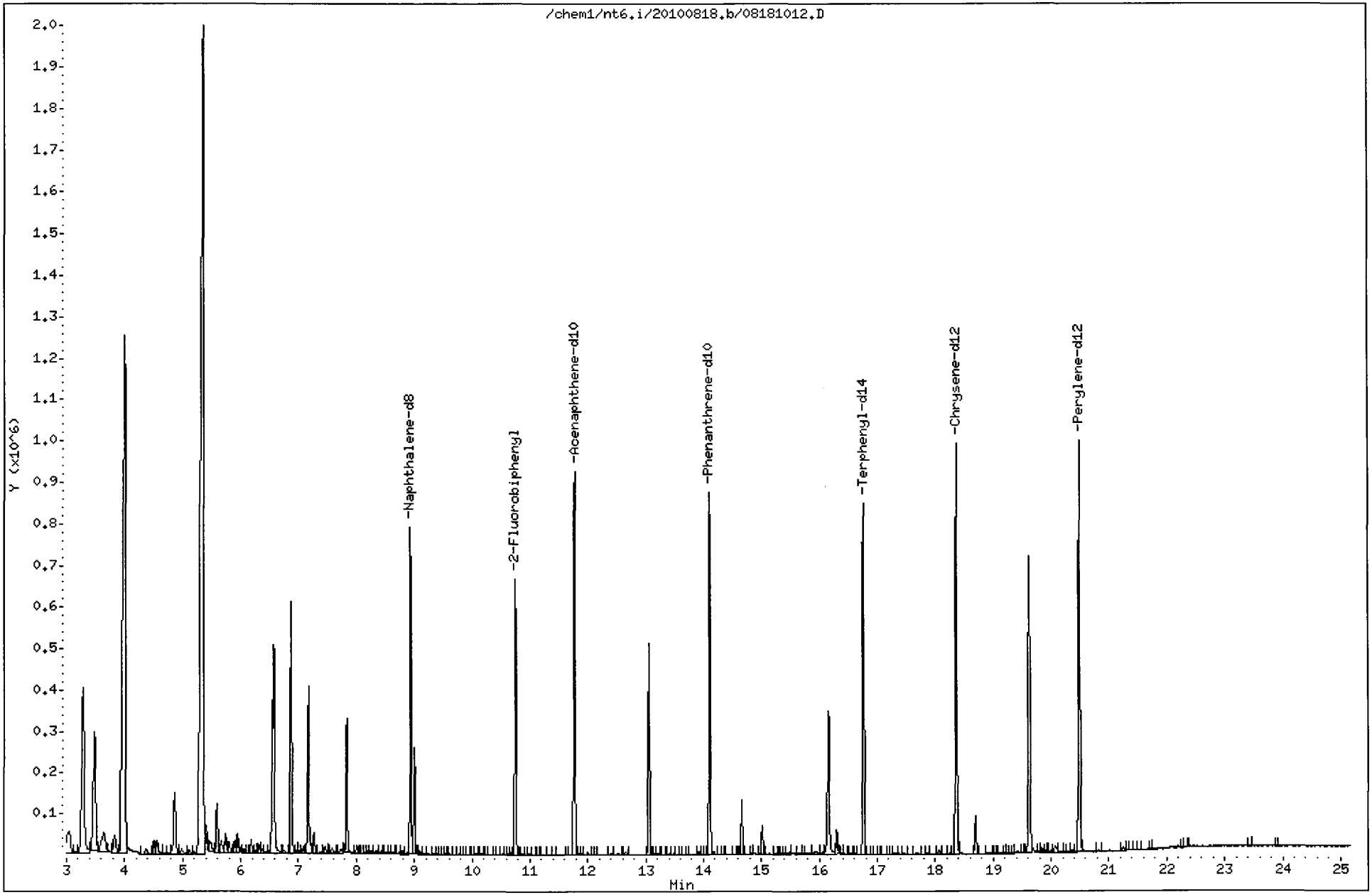
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94B
Client Smp ID: MW14-22.5-24-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18595

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	491.4	304.1	61.89	34-100
$ 66 Terphenyl-d14	491.4	389.8	79.33	35-112

Data File: /chem1/nt6.i/20100818.b/08181012.D
Date : 18-AUG-2010 18:29
Client ID: MW14-22.5-24-080210
Sample Info: RG94B
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181013.D
Lab Smp Id: RG94C Client Smp ID: MW13-10-11.5-080210
Inj Date : 18-AUG-2010 19:02
Operator : JZ Inst ID: nt6.i
Smp Info : RG94C
Misc Info : 10-18596
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.20000	Weight of sample extracted (g)
M	12.70000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.937	8.943	(1.000)	587042	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.748	10.759	(0.913)	355826	14.5726	285.8
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.773	11.774	(1.000)	348793	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.107	14.113	(1.000)	563210	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.762	16.762	(0.913)	451711	18.9892	372.5
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.364	18.370	(1.000)	671493	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.490	20.496	(1.000)	668106	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181013.D
Lab Smp Id: RG94C
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18596

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW13-10-11.5-08(
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	587042	0.50
42 Acenaphthene-d10	320442	160221	640884	348793	8.85
59 Phenanthrene-d10	503793	251896	1007586	563210	11.79
69 Chrysene-d12	532343	266172	1064686	671493	26.14
77 Perylene-d12	517269	258634	1034538	668106	29.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.07
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

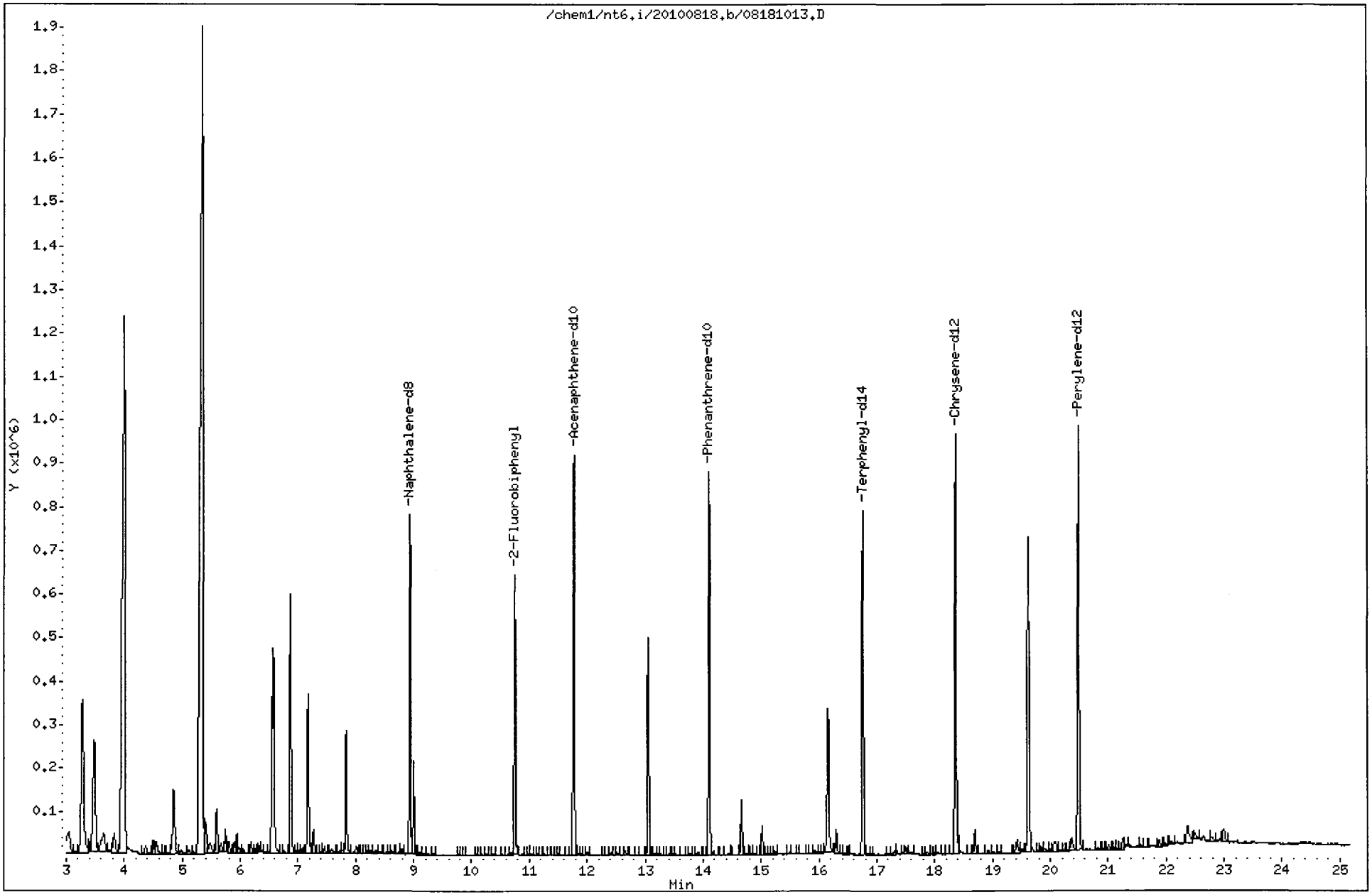
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94C
Client Smp ID: MW13-10-11.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18596

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	490.4	285.8	58.29	34-100
$ 66 Terphenyl-d14	490.4	372.5	75.96	35-112

Data File: /chem1/nt6.i/20100818.b/08181013.D
Date : 18-AUG-2010 19:02
Client ID: MW13-10-11.5-080210
Sample Info: RG94C
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



RG94 : 66957

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181014.D
Lab Smp Id: RG94D Client Smp ID: MW13-14-14.5-080210
Inj Date : 18-AUG-2010 19:35
Operator : JZ Inst ID: nt6.i
Smp Info : RG94D
Misc Info : 10-18597
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.10000	Weight of sample extracted (g)
M	13.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.938	8.943	(1.000)	561740	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.749	10.759	(0.913)	367340	15.8776	313.6
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.769	11.774	(1.000)	330483	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.108	14.113	(1.000)	533967	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.758	16.762	(0.913)	457441	19.9931	394.9
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.360	18.370	(1.000)	645867	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.491	20.496	(1.000)	634791	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181014.D
Lab Smp Id: RG94D
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18597

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW13-14-14.5-08C
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	561740	-3.83
42 Acenaphthene-d10	320442	160221	640884	330483	3.13
59 Phenanthrene-d10	503793	251896	1007586	533967	5.99
69 Chrysene-d12	532343	266172	1064686	645867	21.33
77 Perylene-d12	517269	258634	1034538	634791	22.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.05
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.04
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.06
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

RECOVERY REPORT

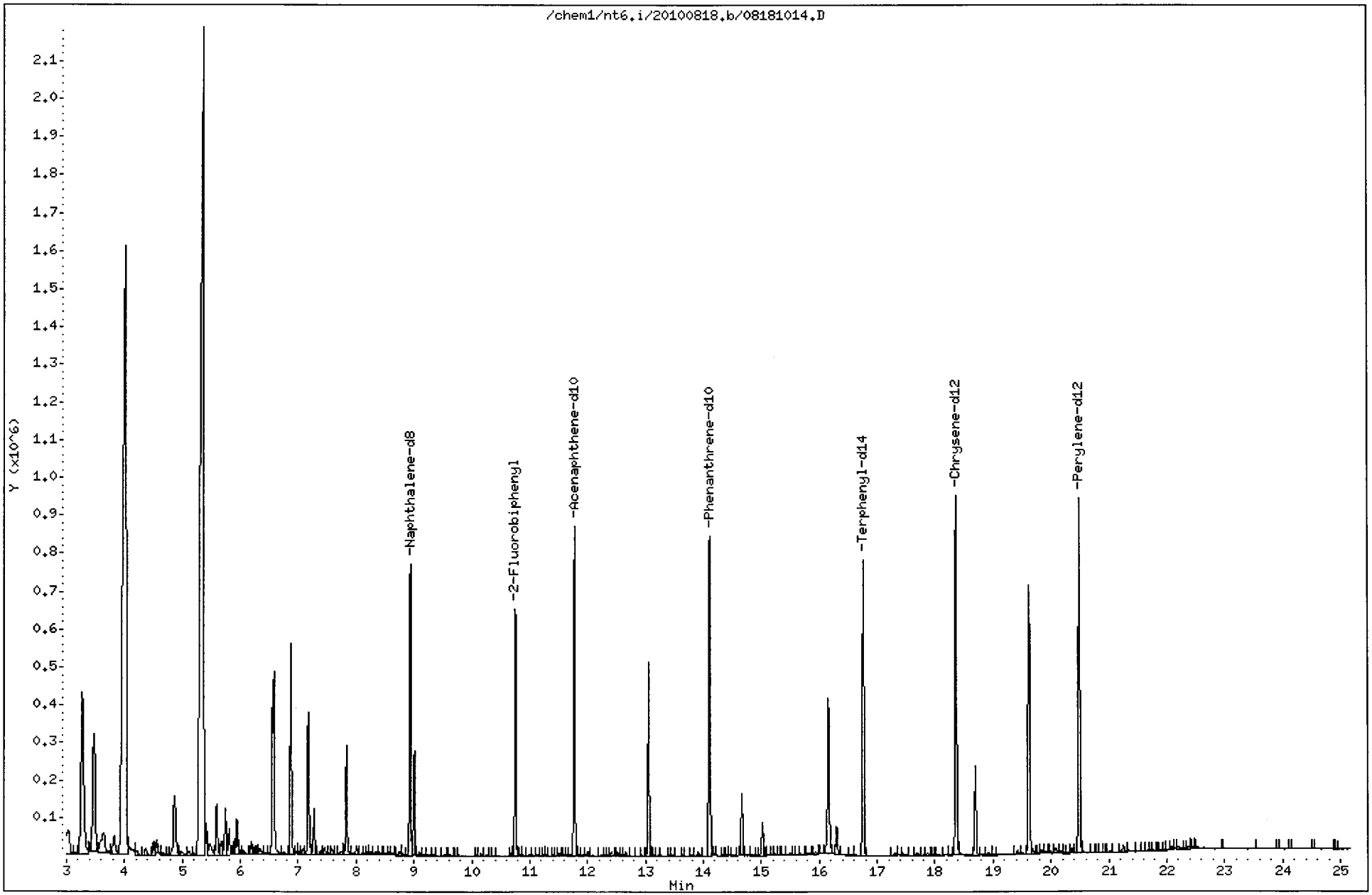
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94D
Client Smp ID: MW13-14-14.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18597

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	493.7	313.6	63.51	34-100
$ 66 Terphenyl-d14	493.7	394.9	79.97	35-112

Data File: /chem1/nt6.i/20100818.b/08181014.D
Date : 18-AUG-2010 19:35
Client ID: MW13-14-14.5-080210
Sample Info: RG94D
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94: 29662



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181015.D
Lab Smp Id: RG94E Client Smp ID: MW13-18.5-19.5-0802
Inj Date : 18-AUG-2010 20:08
Operator : JZ Inst ID: nt6.i
Smp Info : RG94E
Misc Info : 10-18598
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AD 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	29.30000	Weight of sample extracted (g)
M	13.20000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.938	8.943	(1.000)	592545	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.754	10.759	(0.914)	354916	14.4655	284.4
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.769	11.774	(1.000)	350477	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	14.108	14.113	(1.000)	568259	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.758	16.762	(0.913)	452951	18.8551	370.7
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.360	18.370	(1.000)	678128	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.491	20.496	(1.000)	679313	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181015.D
Lab Smp Id: RG94E
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18598

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW13-18.5-19.5-C
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	592545	1.44
42 Acenaphthene-d10	320442	160221	640884	350477	9.37
59 Phenanthrene-d10	503793	251896	1007586	568259	12.80
69 Chrysene-d12	532343	266172	1064686	678128	27.39
77 Perylene-d12	517269	258634	1034538	679313	31.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.04
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.06
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

RECOVERY REPORT

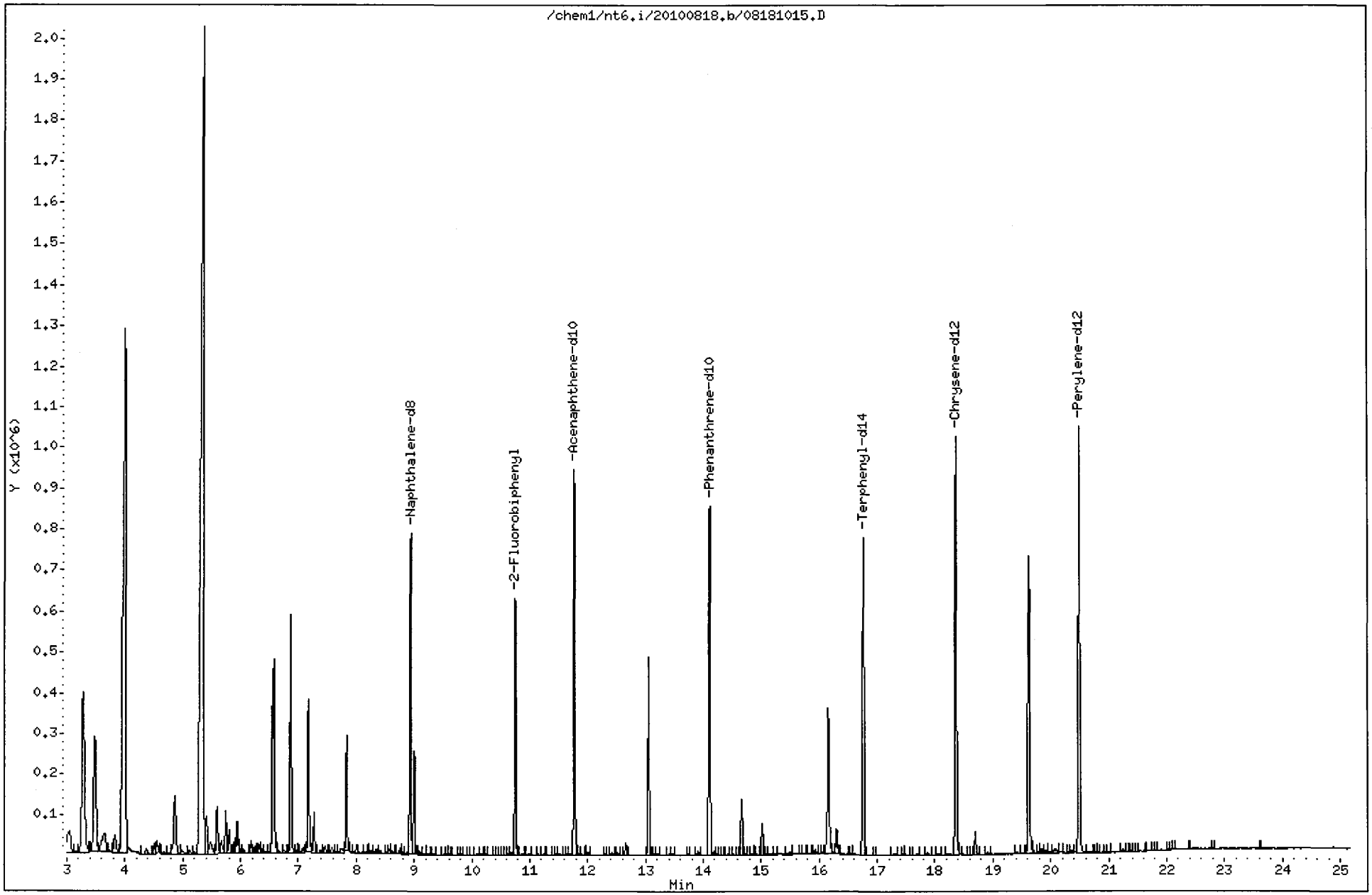
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94E
Client Smp ID: MW13-18.5-19.5-0802
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18598

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	491.5	284.4	57.86	34-100
$ 66 Terphenyl-d14	491.5	370.7	75.42	35-112

Data File: /chem1/nt6.i/20100818.b/08181015.D
Date : 18-AUG-2010 20:08
Client ID: MW13-18.5-19.5-0802
Sample Info: RG94E
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94:66957



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181016.D
Lab Smp Id: RG94F Client Smp ID: MW13-18.5-19.5-0802
Inj Date : 18-AUG-2010 20:40
Operator : JZ Inst ID: nt6.i
Smp Info : RG94F
Misc Info : 10-18599
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AR 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	30.50000	Weight of sample extracted (g)
M	14.20000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.934	8.943	(1.000)	608342	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.750	10.759	(0.913)	387814	15.4564	295.3
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.771	11.774	(1.000)	358413	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.105	14.113	(1.000)	581299	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.759	16.762	(0.913)	473560	19.1738	366.3
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.361	18.370	(1.000)	697196	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.493	20.496	(1.000)	695212	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181016.D
Lab Smp Id: RG94F
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18599

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW13-18.5-19.5-(
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	608342	4.14
42 Acenaphthene-d10	320442	160221	640884	358413	11.85
59 Phenanthrene-d10	503793	251896	1007586	581299	15.38
69 Chrysene-d12	532343	266172	1064686	697196	30.97
77 Perylene-d12	517269	258634	1034538	695212	34.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.93	-0.10
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.03
59 Phenanthrene-d10	14.11	13.61	14.61	14.10	-0.06
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.05
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

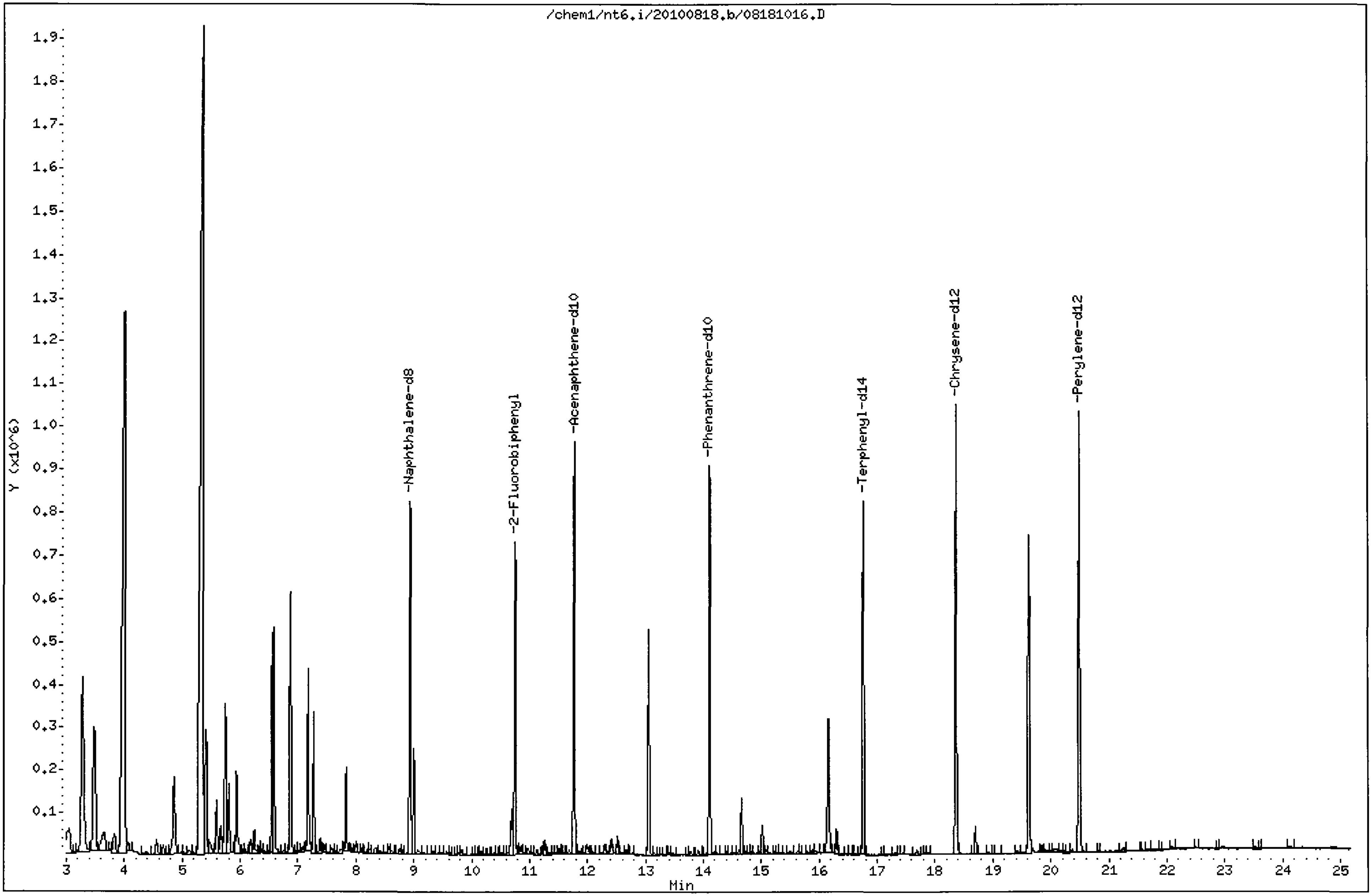
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94F
Client Smp ID: MW13-18.5-19.5-0802
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18599

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	477.7	295.3	61.83	34-100
$ 66 Terphenyl-d14	477.7	366.3	76.70	35-112

Data File: /chem1/nt6.i/20100818.b/08181016.D
Date : 18-AUG-2010 20:40
Client ID: MW13-18.5-19.5-0802
Sample Info: RG94F
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181017.D
Lab Smp Id: RG94G Client Smp ID: MW12-5.5-7.5-080210
Inj Date : 18-AUG-2010 21:13
Operator : JZ Inst ID: nt6.i
Smp Info : RG94G
Misc Info : 10-18600
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	28.10000	Weight of sample extracted (g)
M	9.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	587038	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.749	10.759	(0.913)	338658	13.8610	273.7
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.769	11.774	(1.000)	349006	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	550555	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.758	16.762	(0.912)	329971	13.4703	266.0
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	691489	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.496	20.496	(1.000)	708293	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181017.D
Lab Smp Id: RG94G
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18600

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-5.5-7.5-080
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	587038	0.50
42 Acenaphthene-d10	320442	160221	640884	349006	8.91
59 Phenanthrene-d10	503793	251896	1007586	550555	9.28
69 Chrysene-d12	532343	266172	1064686	691489	29.90
77 Perylene-d12	517269	258634	1034538	708293	36.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.05
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.04
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.03
69 Chrysene-d12	18.37	17.87	18.87	18.37	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Analytical Resources, Inc.

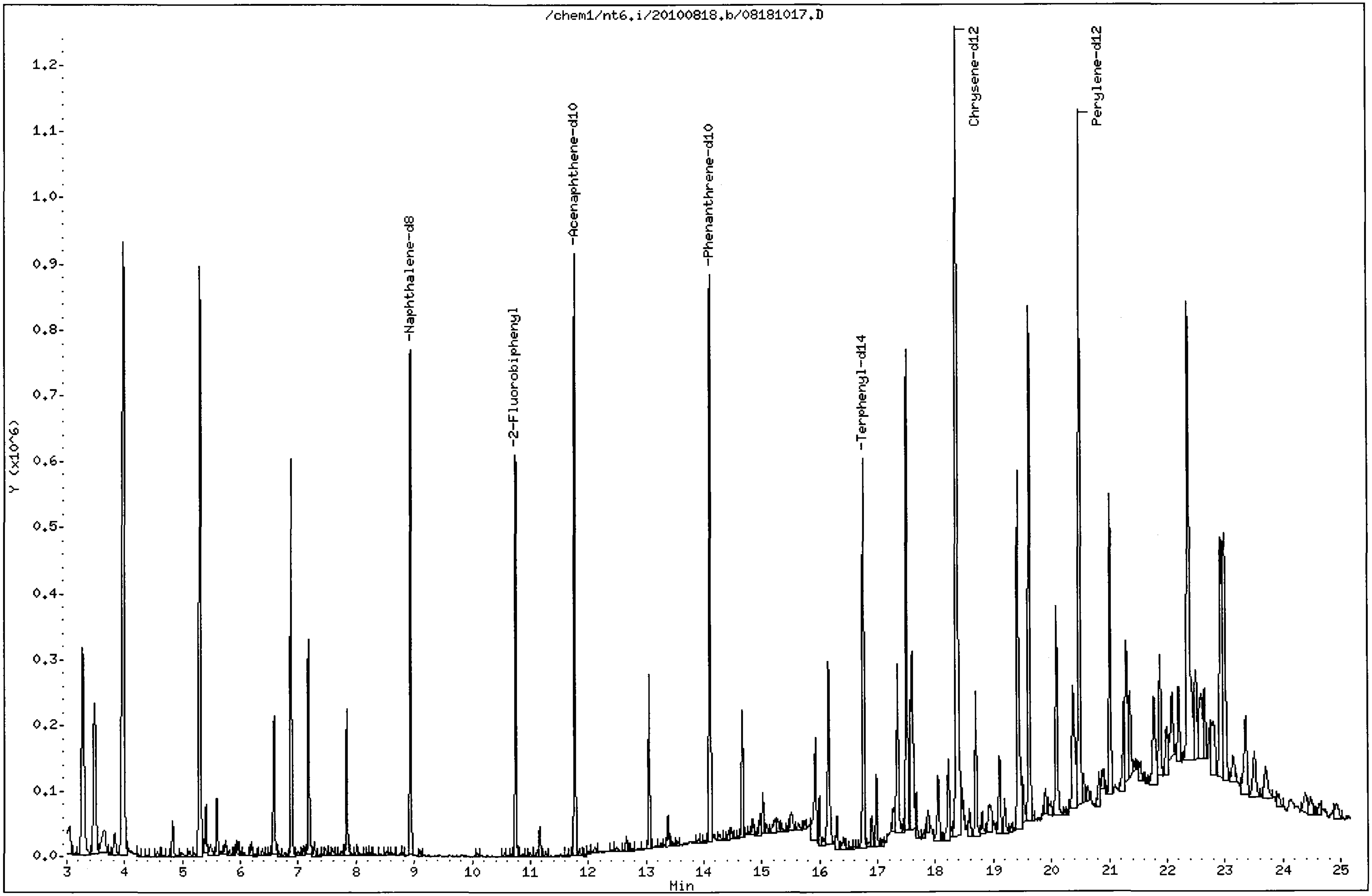
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94G
Client Smp ID: MW12-5.5-7.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18600

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	493.7	273.7	55.44	34-100
$ 66 Terphenyl-d14	493.7	266.0	53.88	35-112

Data File: /chem1/nt6.i/20100818.b/08181017.D
Date : 18-AUG-2010 21:13
Client ID: MW12-5.5-7.5-080210
Sample Info: RG94G
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181018.D
Lab Smp Id: RG94H Client Smp ID: MW12-8-9.5-080210
Inj Date : 18-AUG-2010 21:45
Operator : JZ Inst ID: nt6.i
Smp Info : RG94H
Misc Info : 10-18601
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

D 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	31.80000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	608354	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.754	10.759	(0.914)	372646	14.6627	281.2
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.769	11.774	(1.000)	363036	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	587946	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.762	16.762	(0.913)	457264	18.1788	348.6
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	710053	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.491	20.496	(1.000)	715936	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181018.D
Lab Smp Id: RG94H
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-8-9.5-08021
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	608354	4.15
42 Acenaphthene-d10	320442	160221	640884	363036	13.29
59 Phenanthrene-d10	503793	251896	1007586	587946	16.70
69 Chrysene-d12	532343	266172	1064686	710053	33.38
77 Perylene-d12	517269	258634	1034538	715936	38.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.05
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

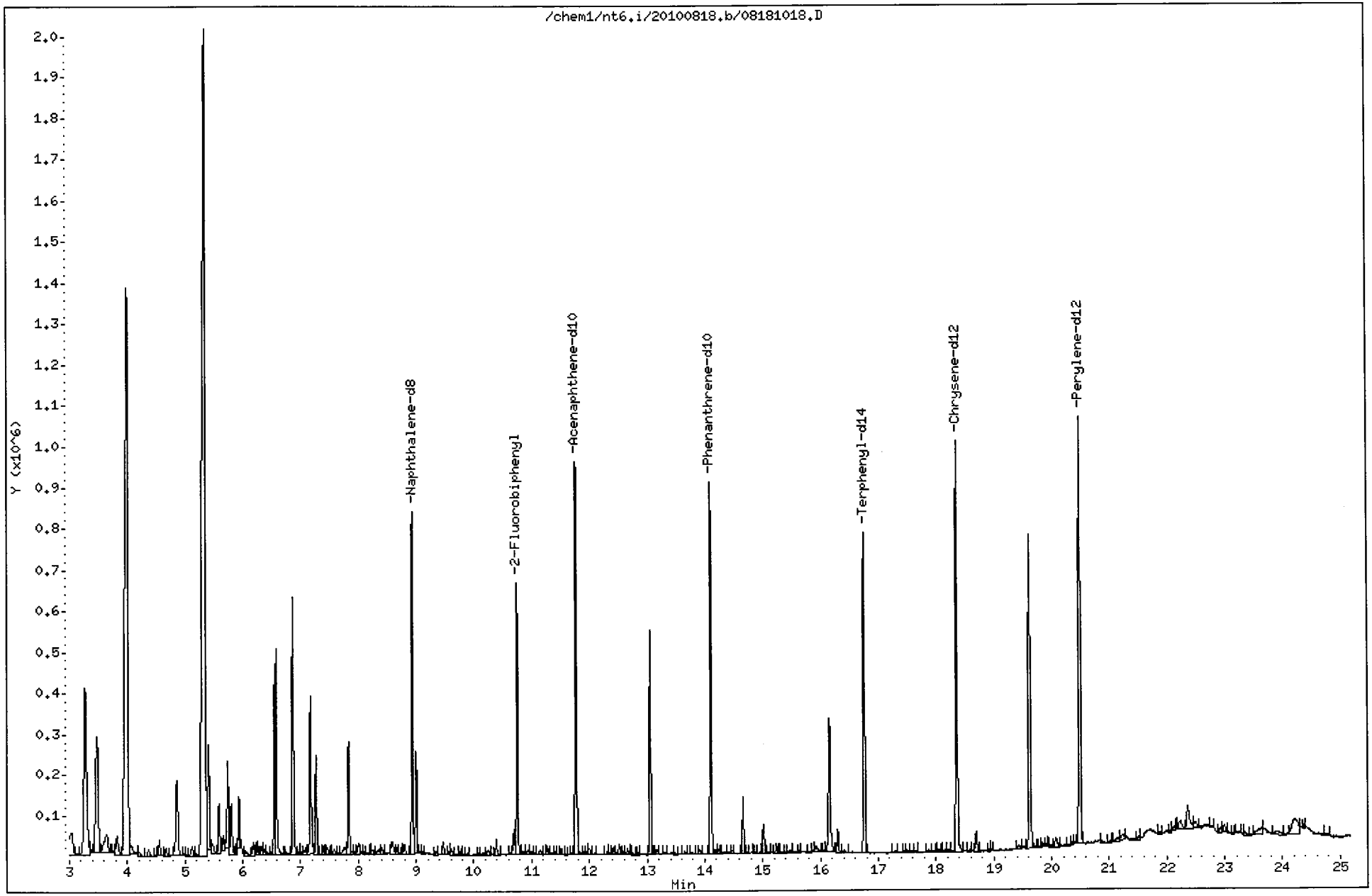
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94H
Client Smp ID: MW12-8-9.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	479.4	281.2	58.65	34-100
$ 66 Terphenyl-d14	479.4	348.6	72.72	35-112

Data File: /chem1/nt6.i/20100818.b/08181018.D
Date : 18-AUG-2010 21:45
Client ID: MW12-8-9.5-080210
Sample Info: RG94H
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94L : 60382



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181019.D
Lab Smp Id: RG94HMS Client Smp ID: MW12-8-9.5-0802 MS
Inj Date : 18-AUG-2010 22:18
Operator : JZ Inst ID: nt6.i
Smp Info : RG94HMS
Misc Info : 10-18601
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	31.60000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	562983	20.0000	
28 Naphthalene	128	8.964	8.975	(1.003)	431022	13.5459	261.4
32 2-Methylnaphthalene	141	10.091	10.097	(1.129)	260358	14.9096	287.7
105 1-methylnaphthalene	141	10.257	10.262	(1.148)	262986	14.5799	281.3
$ 36 2-Fluorobiphenyl	172	10.754	10.759	(0.913)	390040	16.8193	324.5
40 Acenaphthylene	152	11.517	11.523	(0.978)	430478	12.6269	243.6
* 42 Acenaphthene-d10	164	11.774	11.774	(1.000)	331260	20.0000	
44 Acenaphthene	153	11.822	11.827	(1.004)	295677	13.8879	268.0
46 Dibenzofuran	168	12.084	12.089	(1.026)	456157	16.1303	311.3
49 Fluorene	166	12.628	12.639	(1.073)	373207	15.4898	298.9
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	539955	20.0000	
60 Phenanthrene	178	14.145	14.151	(1.003)	525855	15.6786	302.5
61 Anthracene	178	14.209	14.220	(1.007)	464841	13.4162	258.9
64 Fluoranthene	202	16.052	16.057	(1.138)	616512	16.9640	327.3
65 Pyrene	202	16.388	16.394	(0.892)	621774	16.3803	316.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.757	16.762	(0.912)	455724	20.4112	393.9
	68 Benzo(a)anthracene	228	18.343	18.349	(0.999)	628858	17.2602	333.1
*	69 Chrysene-d12	240	18.370	18.370	(1.000)	630263	20.0000	
	71 Chrysene	228	18.407	18.413	(1.002)	584143	17.1285	330.5
	187 Total Benzofluoranthenes	252	20.010	20.015	(0.977)	1387256	32.8318	633.5
	76 Benzo(a)pyrene	252	20.410	20.416	(0.996)	525869	12.7083	245.2
*	77 Perylene-d12	264	20.490	20.496	(1.000)	656206	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.836	21.842	(1.066)	892899	16.1298	311.2
	79 Dibenzo(a,h)anthracene	278	21.868	21.874	(1.067)	703964	16.5488	319.3
	80 Benzo(g,h,i)perylene	276	22.125	22.136	(1.080)	778625	15.5926	300.9

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181019.D
Lab Smp Id: RG94HMS
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-8-9.5-0802
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	562983	-3.62
42 Acenaphthene-d10	320442	160221	640884	331260	3.38
59 Phenanthrene-d10	503793	251896	1007586	539955	7.18
69 Chrysene-d12	532343	266172	1064686	630263	18.39
77 Perylene-d12	517269	258634	1034538	656206	26.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	0.00
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.37	0.00
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: FSI
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94HMS
Client Smp ID: MW12-8-9.5-0802 MS
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: MS
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	482.4	261.4	54.18	37-100
32 2-Methylnaphthalen	482.4	287.7	59.64	43-101
105 1-methylnaphthalen	482.4	281.3	58.32	39-100
40 Acenaphthylene	482.4	243.6	50.51	44-100
44 Acenaphthene	482.4	268.0	55.55	41-100
46 Dibenzofuran	482.4	311.3	64.52	44-100
49 Fluorene	482.4	298.9	61.96	49-100
60 Phenanthrene	482.4	302.5	62.71	48-100
61 Anthracene	482.4	258.9	53.66	50-100
64 Fluoranthene	482.4	327.3	67.86	54-100
65 Pyrene	482.4	316.1	65.52	41-105
68 Benzo(a)anthracene	482.4	333.1	69.04	49-100
71 Chrysene	482.4	330.5	68.51	50-100
187 Total Benzofluoran	964.8	633.5	65.66	30-160
76 Benzo(a)pyrene	482.4	245.2	50.83	50-100
78 Indeno(1,2,3-cd)py	482.4	311.2	64.52	33-101
79 Dibenzo(a,h)anthra	482.4	319.3	66.20	37-104
80 Benzo(g,h,i)peryle	482.4	300.9	62.37	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	482.4	324.5	67.28	34-100
$ 66 Terphenyl-d14	482.4	393.9	81.64	35-112

Data File: /chem1/nt6.i/20100818.b/08181019.D

Date : 18-AUG-2010 22:18

Client ID: MW12-8-9,5-0802 MS

Sample Info: RG94HMS

Volume Injected (uL): 1.0

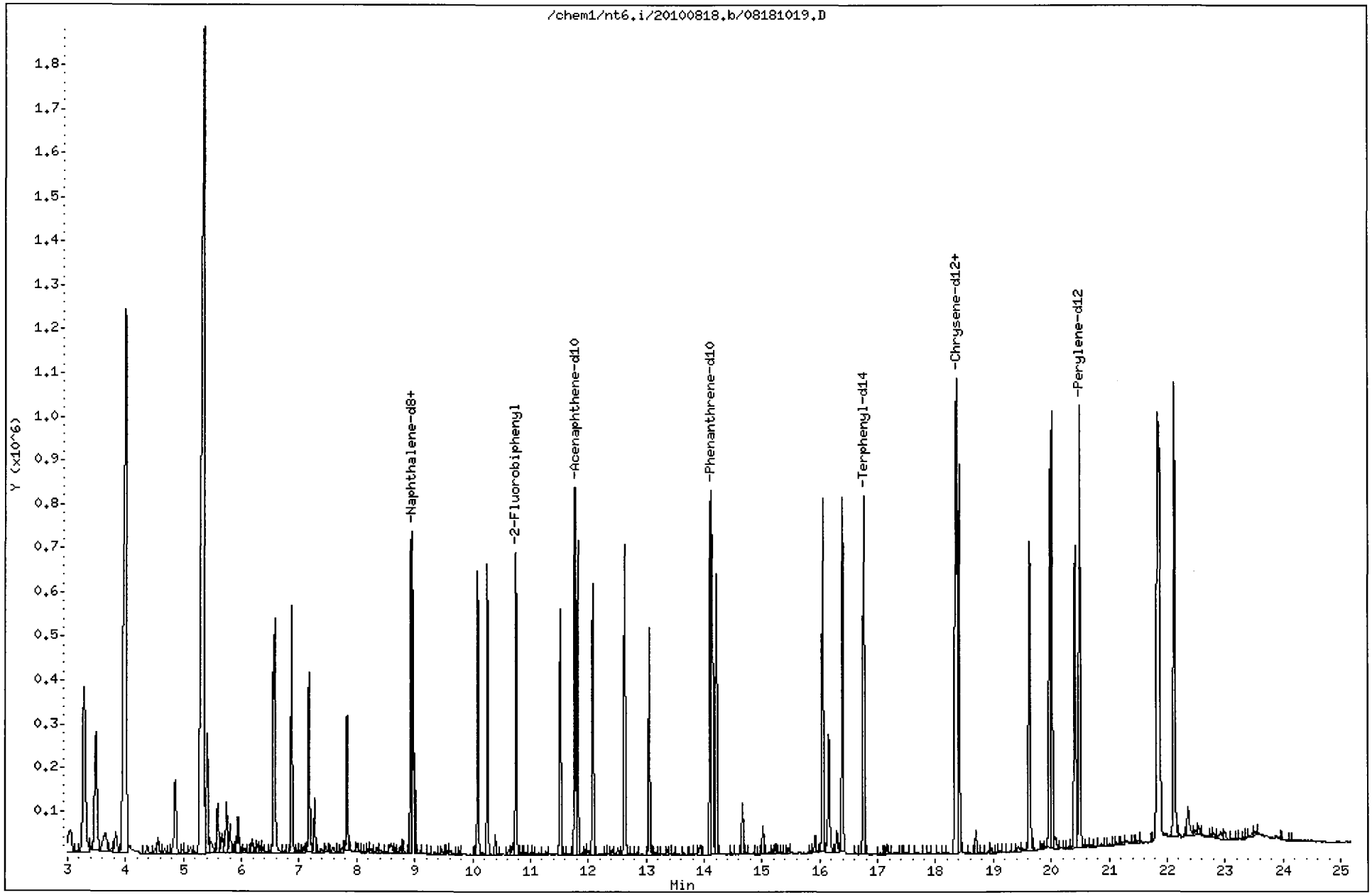
Column phase: ZB-5msi

Instrument: nt6.i

Operator: JZ

Column diameter: 0.32

RG94-66987



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181020.D
Lab Smp Id: RG94HMSD Client Smp ID: MW12-8-9.5-0802 MSD
Inj Date : 18-AUG-2010 22:51
Operator : JZ Inst ID: nt6.i
Smp Info : RG94HMSD
Misc Info : 10-18601
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 20 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	31.10000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
*	27 Naphthalene-d8	136	8.938	8.943	(1.000)	611124	20.0000		
	28 Naphthalene	128	8.965	8.975	(1.003)	434759	12.5871	246.8	
	32 2-Methylnaphthalene	141	10.092	10.097	(1.129)	263476	13.8995	272.5	
	105 1-methylnaphthalene	141	10.257	10.262	(1.148)	264920	13.5302	265.3	
$	36 2-Fluorobiphenyl	172	10.749	10.759	(0.913)	388596	15.5203	304.3	
	40 Acenaphthylene	152	11.518	11.523	(0.979)	514489	13.9774	274.0	
*	42 Acenaphthene-d10	164	11.769	11.774	(1.000)	357655	20.0000		
	44 Acenaphthene	153	11.822	11.827	(1.005)	309152	13.4492	263.7	
	46 Dibenzofuran	168	12.084	12.089	(1.027)	473793	15.5175	304.2	
	49 Fluorene	166	12.629	12.639	(1.073)	389004	14.9539	293.2	
*	59 Phenanthrene-d10	188	14.108	14.113	(1.000)	587672	20.0000		(M)
	60 Phenanthrene	178	14.146	14.151	(1.000)	554254	15.1835	297.7	
	61 Anthracene	178	14.215	14.220	(1.000)	543037	14.4005	282.3	
	64 Fluoranthene	202	16.052	16.057	(1.000)	665914	16.8356	330.1	
	65 Pyrene	202	16.394	16.394	(0.893)	667112	16.2264	318.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.763	16.762	(0.913)	475996	19.6836	385.9
	68 Benzo(a)anthracene	228	18.344	18.349	(0.999)	684204	17.3386	339.9
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	682634	20.0000	
	71 Chrysene	228	18.402	18.413	(1.002)	613555	16.6107	325.7
	187 Total Benzofluoranthenes	252	20.010	20.015	(0.976)	1484513	32.4780	636.8
	76 Benzo(a)pyrene	252	20.411	20.416	(0.996)	645783	14.4266	282.9
*	77 Perylene-d12	264	20.496	20.496	(1.000)	709860	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.842	21.842	(1.066)	972375	16.2379	318.4
	79 Dibenzo(a,h)anthracene	278	21.869	21.874	(1.067)	750663	16.3128	319.8
	80 Benzo(g,h,i)perylene	276	22.131	22.136	(1.080)	833871	15.4368	302.7

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181020.D
Lab Smp Id: RG94HMSD
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-8-9.5-0802
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	611124	4.62
42 Acenaphthene-d10	320442	160221	640884	357655	11.61
59 Phenanthrene-d10	503793	251896	1007586	587672	16.65
69 Chrysene-d12	532343	266172	1064686	682634	28.23
77 Perylene-d12	517269	258634	1034538	709860	37.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.04
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.37	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: FSI
Sample Matrix: SOLID
Lab Smp Id: RG94HMSD
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18601

Client SDG: RG94
Fraction: SV
Client Smp ID: MW12-8-9.5-0802 MSD
Operator: JZ
SampleType: MSD
Quant Type: ISTD

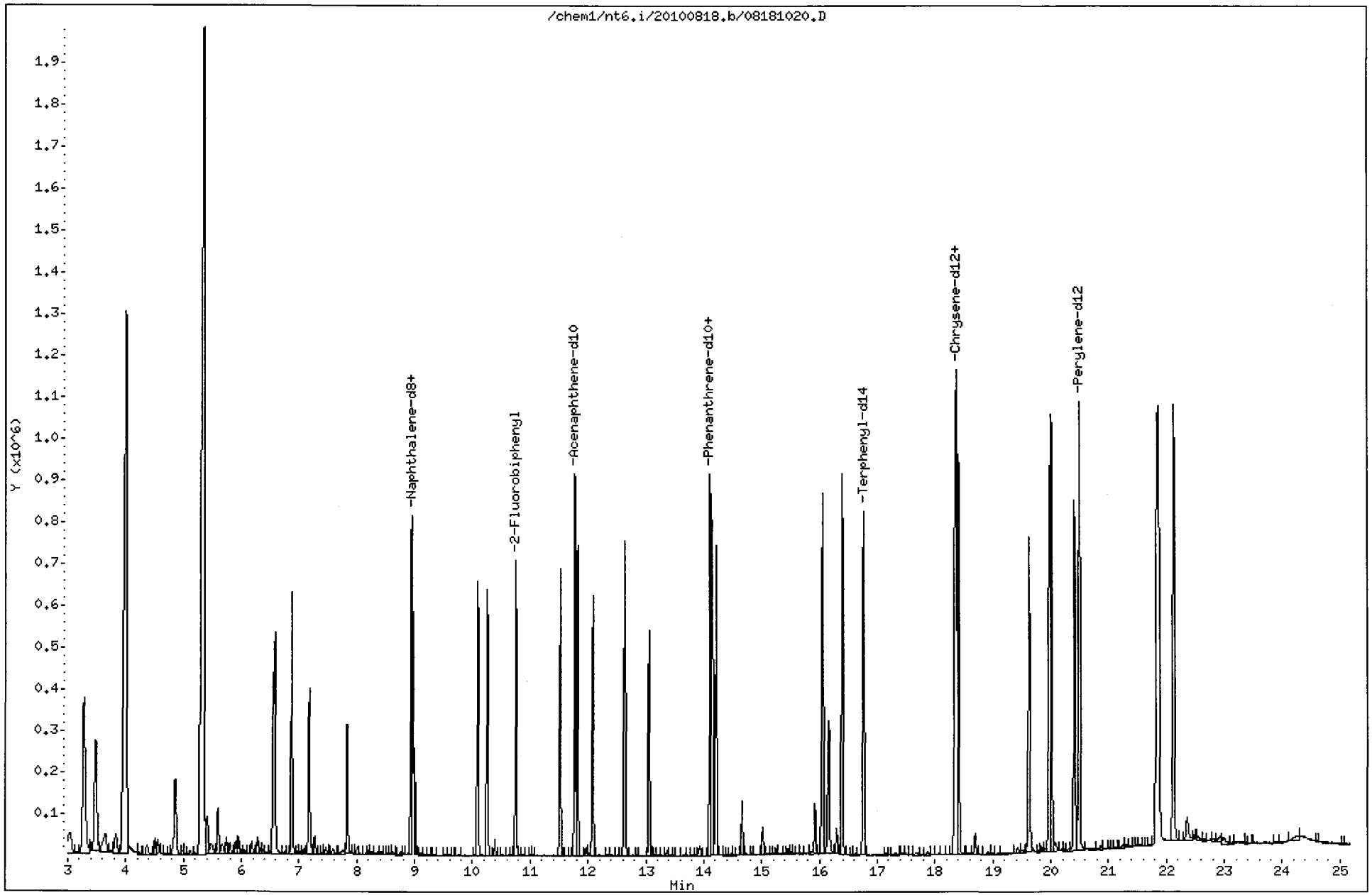
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	490.2	246.8	50.35	37-100
32 2-Methylnaphthalen	490.2	272.5	55.60	43-101
105 1-methylnaphthalen	490.2	265.3	54.12	39-100
40 Acenaphthylene	490.2	274.0	55.91	44-100
44 Acenaphthene	490.2	263.7	53.80	41-100
46 Dibenzofuran	490.2	304.2	62.07	44-100
49 Fluorene	490.2	293.2	59.82	49-100
60 Phenanthrene	490.2	297.7	60.73	48-100
61 Anthracene	490.2	282.3	57.60	50-100
64 Fluoranthene	490.2	330.1	67.34	54-100
65 Pyrene	490.2	318.1	64.91	41-105
68 Benzo(a)anthracene	490.2	339.9	69.35	49-100
71 Chrysene	490.2	325.7	66.44	50-100
187 Total Benzofluoran	980.3	636.8	64.96	30-160
76 Benzo(a)pyrene	490.2	282.9	57.71	50-100
78 Indeno(1,2,3-cd)py	490.2	318.4	64.95	33-101
79 Dibenzo(a,h)anthra	490.2	319.8	65.25	37-104
80 Benzo(g,h,i)peryle	490.2	302.7	61.75	33-107

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	490.2	304.3	62.08	34-100
$ 66 Terphenyl-d14	490.2	385.9	78.73	35-112

Data File: /chem1/nt6.i/20100818.b/08181020.D
Date : 18-AUG-2010 22:51
Client ID: MW12-8-9.5-0802 MSD
Sample Info: RG94HMSD
Volume Injected (uL): 1.0
Column phase: ZB-5msi

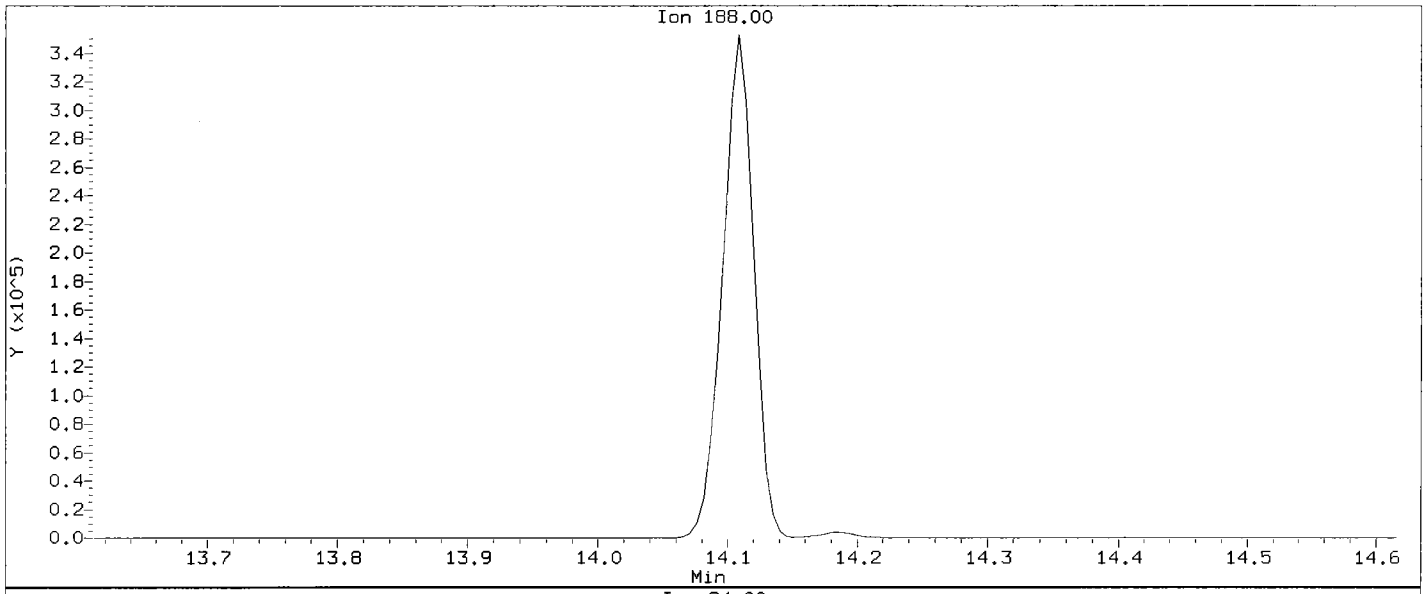
Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

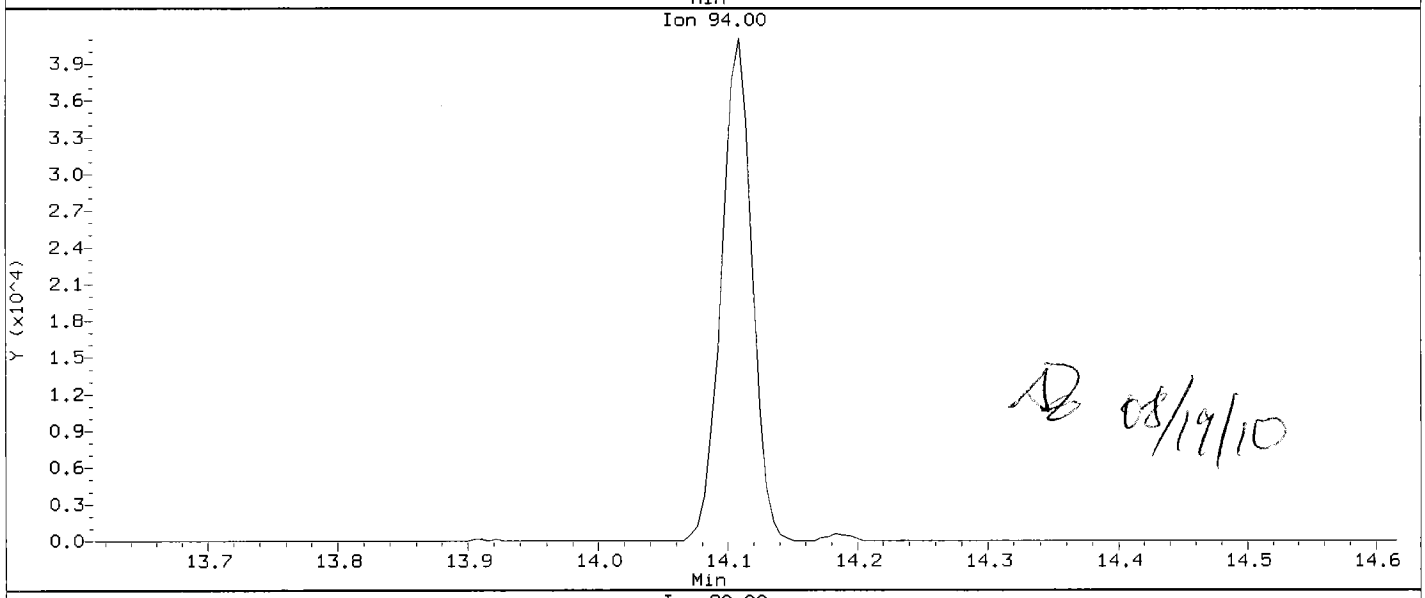
RG94:666992



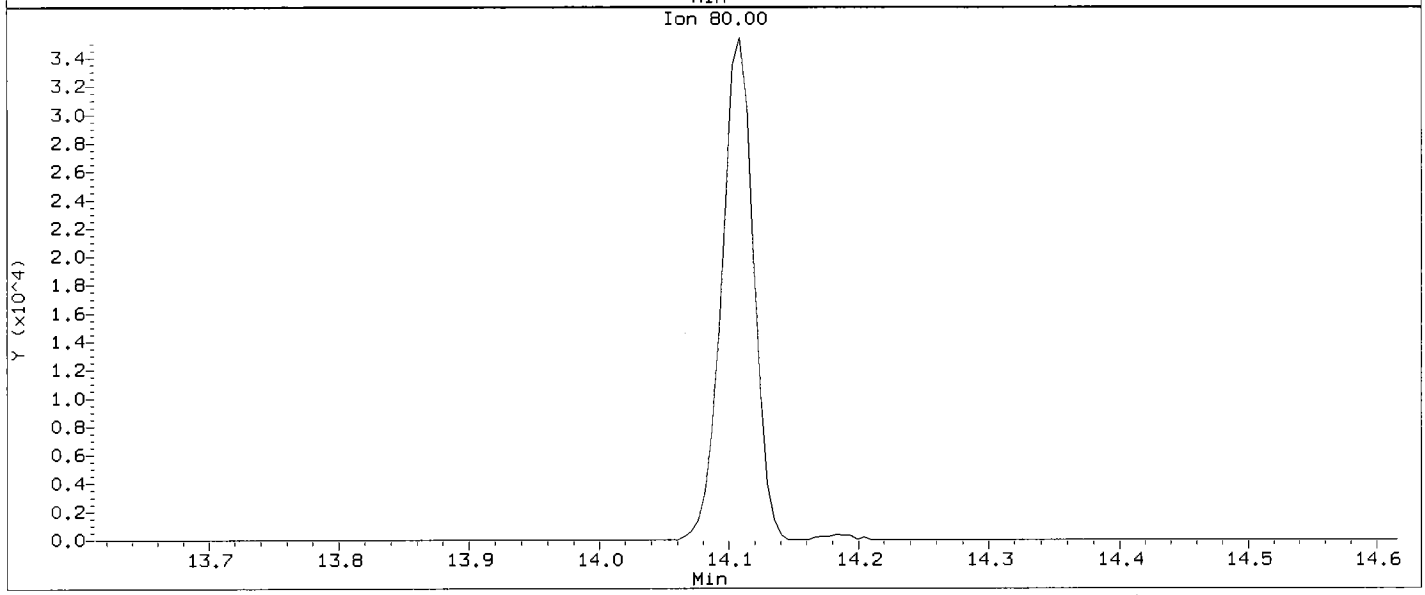
Data File: /chem1/nt6.i/20100818.b/08181020.D
Injection Date: 18-AUG-2010 22:51
Instrument: nt6.i
Client Sample ID: MW12-8-9.5-0802 MSD

Compound: Phenanthrene-d10
CAS Number:



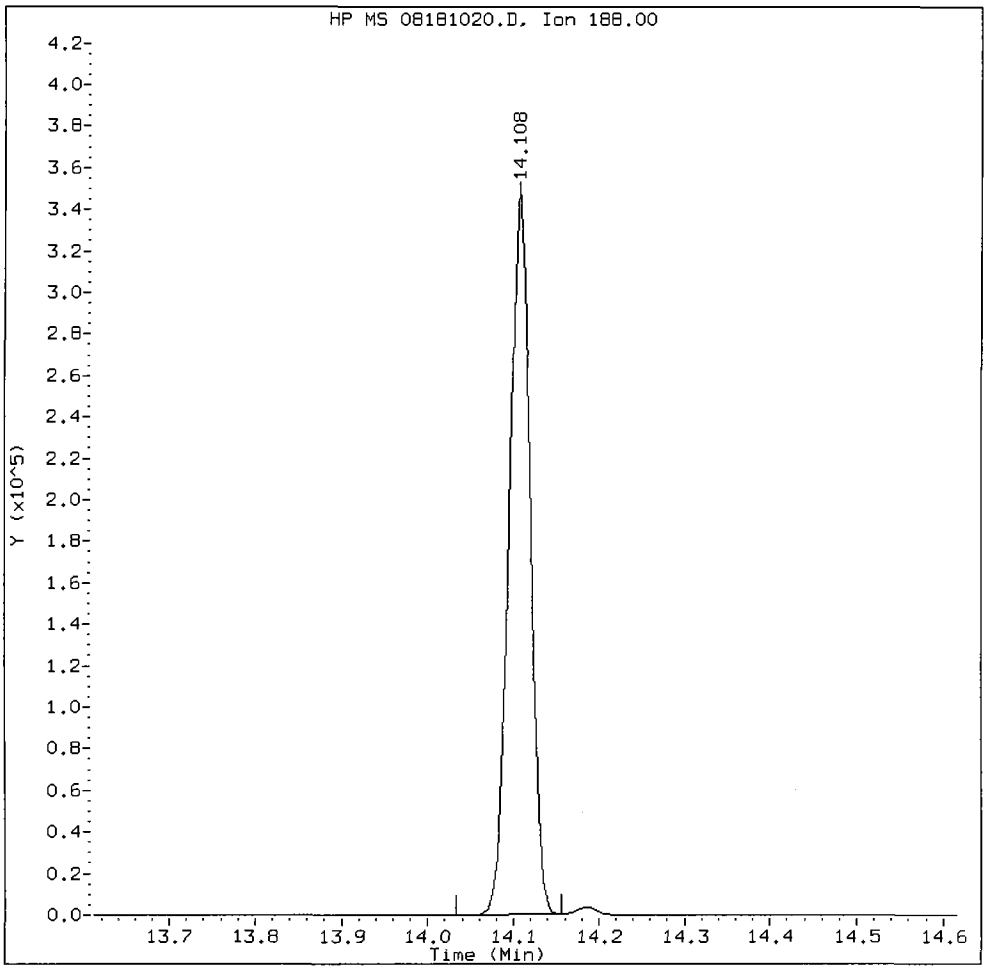


AD 08/19/10



RG94HMSD, /chem1/nt6.i/20100818.b/08181020.D

Phenanthrene-d10 Amount: 20.00 Area: 587672



MANUAL INTEGRATION for Phenanthrene-d10

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AZ Date: 08/19/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181021.D
Lab Smp Id: RG94I Client Smp ID: MW12-10-11.5-080210
Inj Date : 18-AUG-2010 23:23
Operator : JZ Inst ID: nt6.i
Smp Info : RG94I
Misc Info : 10-18602
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	33.30000	Weight of sample extracted (g)
M	24.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.938	8.943	(1.000)	608197	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.754	10.759	(0.914)	384369	15.2377	301.0
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.768	11.774	(1.000)	360327	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.108	14.113	(1.000)	585611	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.762	16.762	(0.913)	445574	18.0973	357.5
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.365	18.370	(1.000)	695016	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.496	20.496	(1.000)	701481	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181021.D
Lab Smp Id: RG94I
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18602

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-10-11.5-080
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	608197	4.12
42 Acenaphthene-d10	320442	160221	640884	360327	12.45
59 Phenanthrene-d10	503793	251896	1007586	585611	16.24
69 Chrysene-d12	532343	266172	1064686	695016	30.56
77 Perylene-d12	517269	258634	1034538	701481	35.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.06
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.05
59 Phenanthrene-d10	14.11	13.61	14.61	14.11	-0.04
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.03
77 Perylene-d12	20.50	20.00	21.00	20.50	0.00

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.

Analytical Resources, Inc.

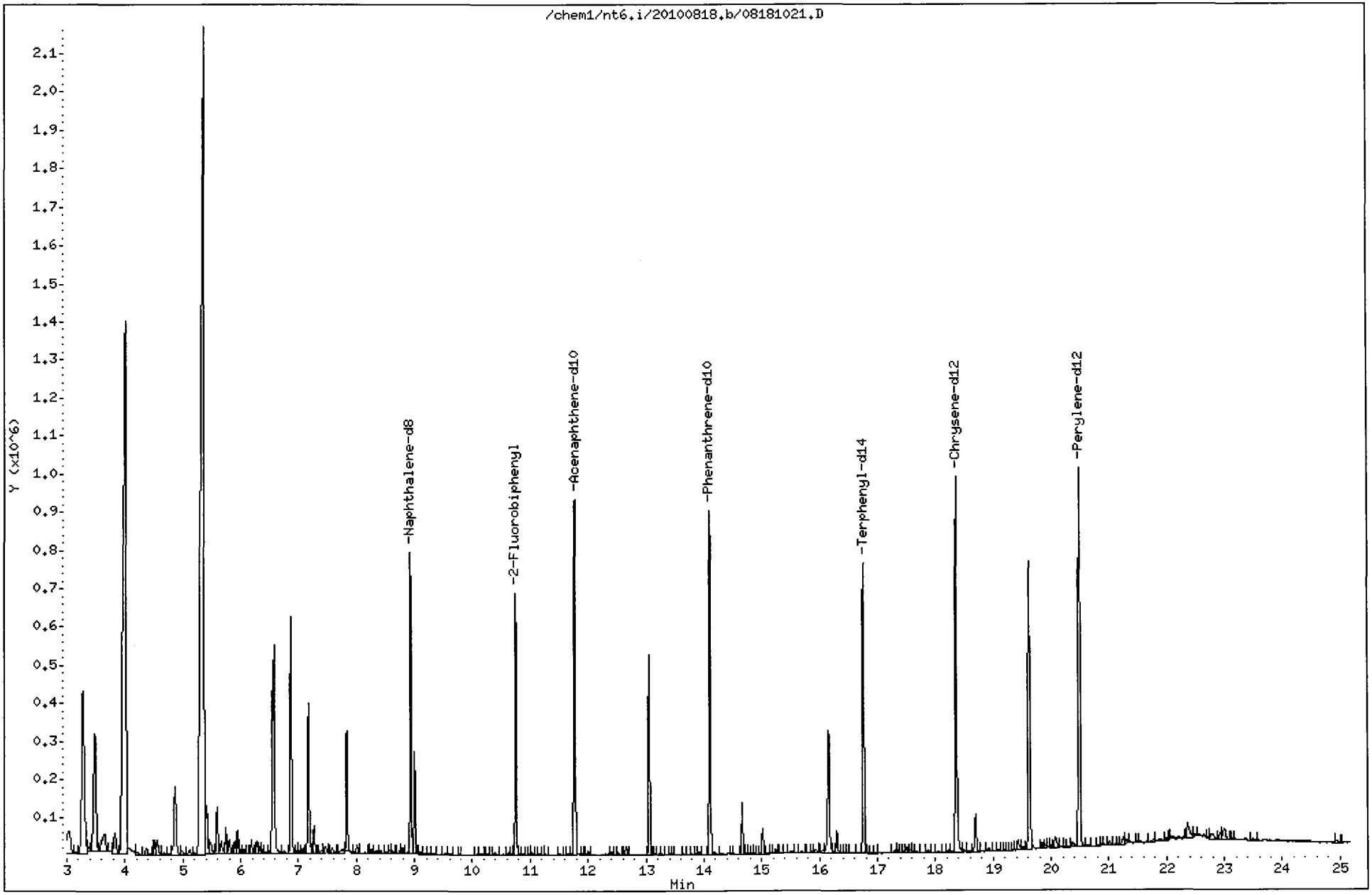
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94I
Client Smp ID: MW12-10-11.5-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18602

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	493.9	301.0	60.95	34-100
$ 66 Terphenyl-d14	493.9	357.5	72.39	35-112

Data File: /chem1/nt6.i/20100818.b/08181021.D
Date : 18-AUG-2010 23:23
Client ID: MW12-10-11.5-080210
Sample Info: RG94I
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20100818.b/08181022.D
Lab Smp Id: RG94J Client Smp ID: MW12-17.5-19-080210
Inj Date : 18-AUG-2010 23:56
Operator : JZ Inst ID: nt6.i
Smp Info : RG94J
Misc Info : 10-18603
Comment : 1ul Injection
Method : /chem1/nt6.i/20100818.b/SW846072310.m
Meth Date : 19-Aug-2010 10:45 jianqing Quant Type: ISTD
Cal Date : 23-JUL-2010 18:38 Cal File: 07231007.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/19/10

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	32.60000	Weight of sample extracted (g)
M	20.50000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	8.939	8.943	(1.000)	607410	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.750	10.759	(0.913)	396361	15.6785	302.5
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.770	11.774	(1.000)	361123	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.104	14.113	(1.000)	583135	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.758	16.762	(0.913)	472611	18.9806	366.2
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.361	18.370	(1.000)	702883	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.492	20.496	(1.000)	690301	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 08181022.D
Lab Smp Id: RG94J
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18603

Calibration Date: 18-AUG-2010
Calibration Time: 12:23
Client Smp ID: MW12-17.5-19-080
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	584137	292068	1168274	607410	3.98
42 Acenaphthene-d10	320442	160221	640884	361123	12.70
59 Phenanthrene-d10	503793	251896	1007586	583135	15.75
69 Chrysene-d12	532343	266172	1064686	702883	32.04
77 Perylene-d12	517269	258634	1034538	690301	33.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	8.94	8.44	9.44	8.94	-0.04
42 Acenaphthene-d10	11.77	11.27	12.27	11.77	-0.03
59 Phenanthrene-d10	14.11	13.61	14.61	14.10	-0.07
69 Chrysene-d12	18.37	17.87	18.87	18.36	-0.05
77 Perylene-d12	20.50	20.00	21.00	20.49	-0.02

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.

Analytical Resources, Inc.

RECOVERY REPORT

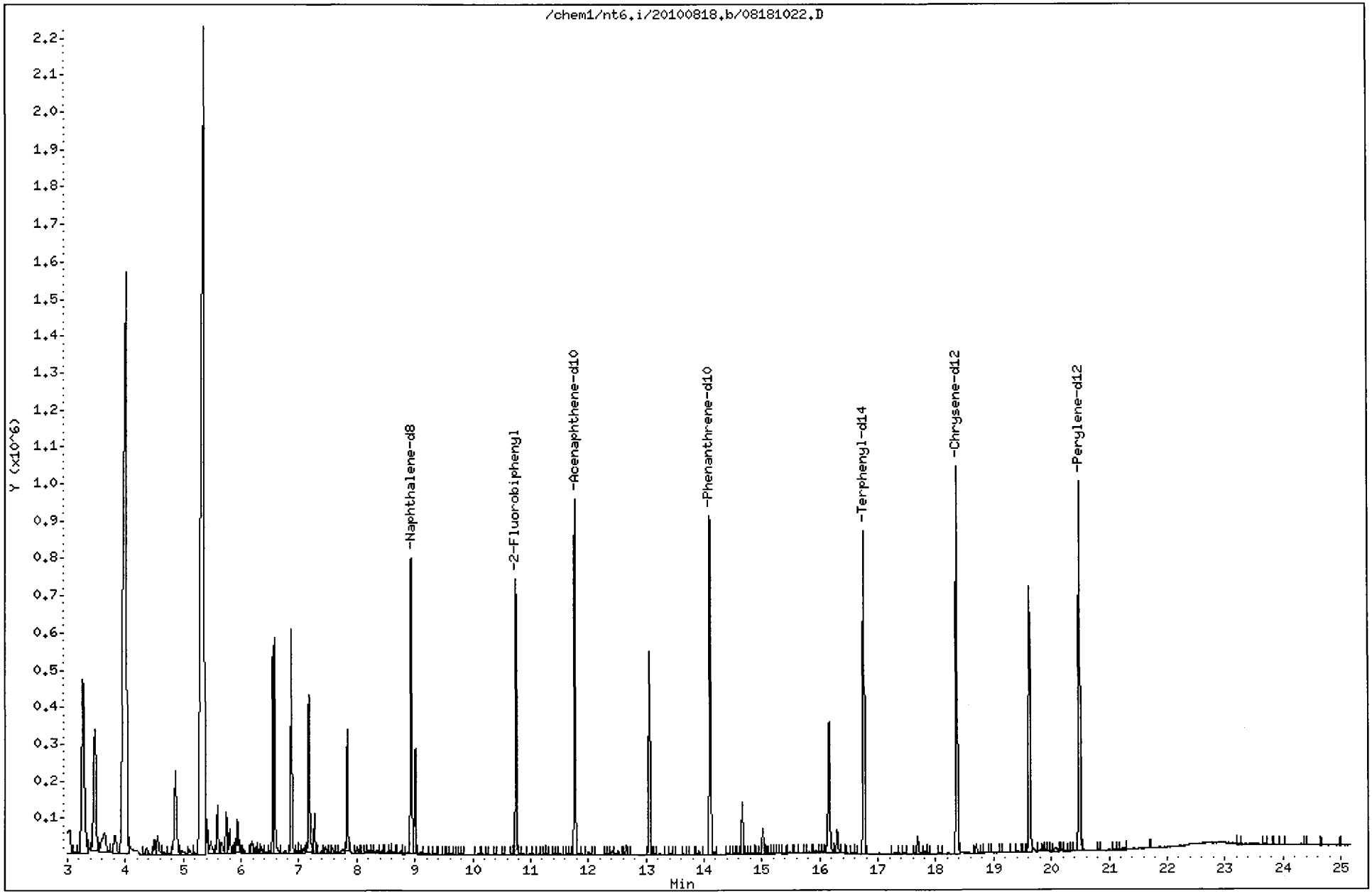
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG94J
Client Smp ID: MW12-17.5-19-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem1/nt6.i/20100818.b/SW846072310.m
Misc Info: 10-18603

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	482.3	302.5	62.71	34-100
$ 66 Terphenyl-d14	482.3	366.2	75.92	35-112

Data File: /chem1/nt6.i/20100818.b/08181022.D
Date : 18-AUG-2010 23:56
Client ID: MW12-17.5-19-080210
Sample Info: RG94J
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt6.i
Operator: JZ
Column diameter: 0.32

RG94J 01 0081



GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RG94 Client ID: Floyd | Snider

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 8/20/10

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Re-extracting for sample K

Forms included

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 08/24/10

Reviewer: _____ **Date:** 8/24/10

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/20/10 Analysis: 8270 Analyst: AR

GC Program: ABN Column No: 172794 Column Type: ZB-5MS

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08201001 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
IS-2-1	1747-3, 1733-1 1735-4, 1736-1 1-3019, 1753-5	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100820.b

	Time	Filename	LabID	ClientId	DF															
1	1133	08201001.d	CC0820	CC0820	1	7.61	645810	9.66	2144165	12.50	1292381	14.86	2129152	19.15	1684492	21.30	1830400	20.33	2699502	
2	1214	08201002.d	RG94MBW2	RG94MBW2	1	9.65	1685318	12.50	1003587	14.85	1609277	19.14	1370407	21.29	1367417					
3	1247	08201003.d	RG94LCSW2	RG94LCSW2	1	9.65	1785486	12.50	1073338	14.85	1692270	19.15	1429276	21.29	1481401					
4	1321	08201004.d	RG94LCSDW2	RG94LCSDW2	1	9.65	1798764	12.49	1066904	14.85	1676318	19.15	1428298	21.29	1497630					
5	1354	08201005.d	RG94KRE	MW12-ER-0802	1	9.65	1845237	12.49	1081338	14.85	1727594	19.14	1483361	21.29	1470438					
6	1428	08201006.d	RG62MBS2	RG62MBS2	1	9.65	1614001	12.49	987406	14.85	1564762	19.14	1267052	21.29	1268023					
7	1501	08201007.d	RG62LCSS2	RG62LCSS2	1	9.65	1651615	12.50	980262	14.85	1595347	19.14	1249000	21.29	1400453					
8	1535	08201008.d	RG62LCSDS2	RG62LCSDS2	1	9.65	1764890	12.50	1024506	14.85	1676359	19.14	1337247	21.29	1470786					
9	1608	08201009.d	RG62ARE	FTATW02-8	1	9.67	907899	12.49	999989	14.86	1381988	19.16	1543896	21.32	1443487					
10	1642	08201010.d	RH22MBS1	RH22MBS1	1	7.61	448936	9.65	1558348	12.49	924982	14.85	1452618	19.14	1182256	20.32	1820276	21.29	1304418	
11	1715	08201011.d	RH22LCSS1	RH22LCSS1	1	7.61	515549	9.65	1719102	12.50	1023396	14.85	1684847	19.15	1346243	20.32	2181621	21.29	1525270	
12	1749	08201012.d	RH22LCSDS1	RH22LCSDS1	1	7.60	517518	9.65	1469344	12.50	1010585	14.85	1511001	19.14	1271795	20.32	1997891	21.29	1488069	
13	1822	08201013.d	RH22SRM1	SQ-1	1	7.61	399541	9.65	1487498	12.49	943600	14.85	1492488	19.14	1410151	20.32	2147931	21.29	1526373	
14	1856	08201014.d	RH22A	EW10-SC09-7.	1	7.60	490769	9.65	1371624	12.49	860935	14.85	1391168	19.13	1275400	20.32	2016223	21.29	1388052	
15	1929	08201015.d	RH22E	EW10-SC24-8-	1	7.61	505502	9.65	1688885	12.50	998458	14.85	1573524	19.14	1448609	20.32	2166781	21.29	1509344	
16	2003	08201016.d	RH56MBS1	RH56MBS1	1	7.61	472373	9.65	1580216	12.49	962242	14.85	1518702	19.14	1325387	20.32	1995418	21.29	1411606	
17	2036	08201017.d	RH56LCSS1	RH56LCSS1	1	7.61	515510	9.65	1723576	12.50	1013497	14.85	1659751	19.14	1334638	20.32	2199819	21.29	1568387	
18	2110	08201018.d	RH56LCSDS1	RH56LCSDS1	1	7.61	535427	9.65	1804657	12.50	1072895	14.85	1796120	19.15	1434205	20.32	2314939	21.29	1660015	
19	2143	08201019.d	RH56A	HPT05-100806	1	7.61	615976	9.65	2007684	12.49	1242569	14.85	1952648	19.14	1730558	20.32	2608533	21.29	1790266	
20	2217	08201020.d	RH56B	HPT06-100806	1	7.61	526870	9.65	1711971	12.49	1043382	14.85	1654068	19.14	1502310	20.32	2327008	21.29	1577827	
21	2251	08201021.d	RH56D	HPT08-100806	1	NO ISTDS FOUND														
22	2324	08201022.d	RH56E	HPT09-100806	1	7.61	471447	9.65	1572878	12.49	968108	14.85	1515532	19.14	1345429	20.31	2057822	21.28	1426259	

No IS added

AR 08/24/10

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100820.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 20-AUG-2010

DZ 08/24/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1133	08201001.d	CC0820	CC0820	1	NO MANUAL INTEGRATION
1214	08201002.d	RG94MBW2	RG94MBW2	1	NO MANUAL INTEGRATION
1247	08201003.d	RG94LCSW2	RG94LCSW2	1	NO MANUAL INTEGRATION
1321	08201004.d	RG94LCSDW2	RG94LCSDW2	1	NO MANUAL INTEGRATION
1354	08201005.d	RG94KRE	MW12-ER-08	1	NO MANUAL INTEGRATION

RGSH: 9/09/07

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100820.b

Instrument: nt4.i Date: 20-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

AZ 08/19/10

CONTINUING CAL: 20-AUG-2010

Compound	%D
Benzyl alcohol	-22.0
Hexachlorocyclopentadiene	-24.8
4-Nitrophenol	-21.3
Pentachlorophenol	-30.3

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08201001.d
Analysis Type:
Lab Sample ID: CC0820
Method: /chem3/nt4.i/20100820.b/SW846100719.m

Injection Date: 20-AUG-2010 11:33
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

DZ 08/20/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 2-Fluorophenol	1.08371	1.00012	1.00012	0.010	-7.71353	20.00000	Averaged	
$ 2 Phenol-d5	1.06604	1.04231	1.04231	0.010	-2.22614	20.00000	Averaged	
3 Phenol	1.37947	1.25072	1.25072	0.100	-9.33332	20.00000	Averaged	
$ 5 2-Chlorophenol-d4	1.14386	1.07090	1.07090	0.010	-6.37855	20.00000	Averaged	
4 Bis(2-Chloroethyl)ether	1.02875	0.99267	0.99267	0.700	-3.50743	20.00000	Averaged	
6 2-Chlorophenol	1.31278	1.20259	1.20259	0.800	-8.39386	20.00000	Averaged	
7 1,3-Dichlorobenzene	1.49159	1.38234	1.38234	0.010	-7.32422	20.00000	Averaged	
9 1,4-Dichlorobenzene	1.50653	1.37959	1.37959	0.010	-8.42598	20.00000	Averaged	
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.77382	0.77382	0.010	-9.31127	20.00000	Averaged	
12 1,2-Dichlorobenzene	1.40311	1.27416	1.27416	0.010	-9.19044	20.00000	Averaged	
11 Benzyl alcohol	0.78176	0.60989	0.60989	0.010	-21.98513	20.00000	Averaged	<-
14 2,2'-oxybis(1-Chloropropane	0.96702	0.88291	0.88291	0.010	-8.69797	20.00000	Averaged	
13 2-Methylphenol	1.05383	0.96104	0.96104	0.700	-8.80515	20.00000	Averaged	
17 Hexachloroethane	0.55799	0.48354	0.48354	0.300	-13.34296	20.00000	Averaged	
16 N-Nitroso-di-n-propylamine	0.72131	0.64551	0.64551	0.500	-10.50889	20.00000	Averaged	
15 4-Methylphenol	1.09383	1.00700	1.00700	0.600	-7.93819	20.00000	Averaged	
$ 18 Nitrobenzene-d5	0.30955	0.29882	0.29882	0.010	-3.46527	20.00000	Averaged	
19 Nitrobenzene	0.30648	0.29461	0.29461	0.200	-3.87383	20.00000	Averaged	
20 Isophorone	0.50898	0.48158	0.48158	0.300	-5.38230	20.00000	Averaged	
21 2-Nitrophenol	0.19148	0.19952	0.19952	0.100	4.20163	20.00000	Averaged	
22 2,4-Dimethylphenol	0.34090	0.32101	0.32101	0.200	-5.83625	20.00000	Averaged	
23 Bis(2-Chloroethoxy)methane	0.35475	0.35451	0.35451	0.050	-0.06852	20.00000	Averaged	
24 Benzoic acid	43.87206	50.00000	0.24056	0.010	-12.25588	20.00000	Linear	
25 2,4-Dichlorophenol	0.29949	0.29752	0.29752	0.100	-0.65913	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.33353	0.31719	0.31719	0.010	-4.90063	20.00000	Averaged	
28 Naphthalene	0.94898	0.89582	0.89582	0.100	-5.60232	20.00000	Averaged	
29 4-Chloroaniline	0.37840	0.37031	0.37031	0.010	-2.13789	20.00000	Averaged	
30 Hexachlorobutadiene	0.18923	0.17041	0.17041	0.010	-9.94635	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.27464	0.27434	0.27434	0.200	-0.11098	20.00000	Averaged	
32 2-Methylnaphthalene	0.64492	0.60663	0.60663	0.300	-5.93755	20.00000	Averaged	
33 Hexachlorocyclopentadiene	0.29263	0.22016	0.22016	0.001	-24.76619	20.00000	Averaged	<-
34 2,4,6-Trichlorophenol	0.36003	0.34275	0.34275	0.200	-4.79801	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.36654	0.37744	0.37744	0.200	2.97269	20.00000	Averaged	
$ 36 2-Fluorobiphenyl	1.22512	1.11845	1.11845	0.010	-8.70699	20.00000	Averaged	
37 2-Chloronaphthalene	1.08775	1.00638	1.00638	0.700	-7.48087	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 20-AUG-2010 11:33
Lab File ID: 08201001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0820 Quant Type: ISTD
Method: /chem3/nt4.i/20100820.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.22520	0.22520	0.010	7.23507	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.17296	1.17296	0.010	-8.19626	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.57036	1.57036	0.900	-4.29120	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.29638	0.29638	0.100	3.08718	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.25813	0.25813	0.010	1.82287	20.00000	Averaged	
44 Acenaphthene	1.06825	0.99314	0.99314	0.100	-7.03123	20.00000	Averaged	
45 2,4-Dinitrophenol	50.54708	50.00000	0.17116	0.030	1.09415	20.00000	Quadratic	
46 Dibenzofuran	1.42396	1.33270	1.33270	0.800	-6.40888	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.14096	0.14096	0.010	-21.33931	20.00000	Averaged	<-
48 2,4-Dinitrotoluene	0.37910	0.38552	0.38552	0.200	1.69403	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.16281	1.16281	0.010	-12.02095	20.00000	Averaged	
49 Fluorene	1.23204	1.13234	1.13234	0.100	-8.09229	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.56661	0.56661	0.100	-5.17989	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.27433	0.27433	0.010	-0.11404	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.14267	0.14267	0.001	3.38193	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.52871	0.52871	0.010	-6.28129	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.13552	0.13552	0.010	-5.24725	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.18928	0.18928	0.100	-7.41660	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.19090	0.19090	0.100	-8.83755	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.09940	0.09940	0.010	-30.33775	20.00000	Averaged	<-
60 Phenanthrene	1.03607	0.91220	0.91220	0.700	-11.95557	20.00000	Averaged	
61 Anthracene	1.05988	0.95124	0.95124	0.700	-10.24985	20.00000	Averaged	
62 Carbazole	0.96311	0.85627	0.85627	0.010	-11.09304	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.08937	1.08937	0.010	-11.29051	20.00000	Averaged	
64 Fluoranthene	1.07347	0.95385	0.95385	0.600	-11.14312	20.00000	Averaged	
65 Pyrene	1.26819	1.23001	1.23001	0.600	-3.01089	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.72996	0.72996	0.010	-5.74264	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.65719	0.65719	0.010	2.11227	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.12534	1.12534	0.800	-4.01191	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.39704	0.39704	0.010	4.71244	20.00000	Averaged	
71 Chrysene	1.14746	1.09699	1.09699	0.700	-4.39823	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.56589	0.56589	0.010	-0.33930	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.89246	0.89246	0.010	-10.24797	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.12425	1.12425	0.700	-9.69191	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.13973	1.13973	0.700	-9.62095	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 20-AUG-2010 11:33
Lab File ID: 08201001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0820 Quant Type: ISTD
Method: /chem3/nt4.i/20100820.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.05902	1.05902	0.010	-10.26893	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.01976	1.01976	0.700	-7.65777	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.17604	1.17604	0.500	-0.82414	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	0.95433	0.95433	0.400	0.10998	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	0.99664	0.99664	0.500	-1.67531	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.52419	0.52419	0.010	-10.02973	20.00000	Averaged
103 Pyridine	1.00478	0.95413	0.95413	0.010	-5.04069	20.00000	Averaged
91 Aniline	1.43987	1.27950	1.27950	0.010	-11.13760	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.59178	0.59178	0.010	-6.32875	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100820.b/08201001.d
Lab Smp Id: CC0820 Client Smp ID: CC0820
Inj Date : 20-AUG-2010 11:33
Operator : JZ Inst ID: nt4.i
Smp Info : CC0820,
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100820.b/SW846100719.m
Meth Date : 20-Aug-2010 21:35 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

JZ 05/20/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	5.653	5.653	(0.742)	807361	25.0000	23.07	
$	2 Phenol-d5	99	7.245	7.245	(0.951)	841420	25.0000	24.44	
	3 Phenol	94	7.262	7.262	(0.954)	1009661	25.0000	22.67	
$	5 2-Chlorophenol-d4	132	7.327	7.327	(0.962)	864495	25.0000	23.41	
	4 Bis(2-Chloroethyl)ether	93	7.303	7.303	(0.959)	801345	25.0000	24.12	
	6 2-Chlorophenol	128	7.350	7.350	(0.965)	970807	25.0000	22.90	
	7 1,3-Dichlorobenzene	146	7.550	7.550	(0.992)	1115912	25.0000	23.17	
*	8 1,4-Dichlorobenzene-d4	152	7.615	7.615	(1.000)	645810	20.0000		
	9 1,4-Dichlorobenzene	146	7.644	7.644	(1.004)	1113695	25.0000	22.89	
$	10 1,2-Dichlorobenzene-d4	152	7.914	7.914	(1.039)	624675	25.0000	22.67	
	12 1,2-Dichlorobenzene	146	7.932	7.932	(1.042)	1028578	25.0000	22.70	
	11 Benzyl alcohol	108	7.926	7.926	(1.041)	492343	25.0000	19.50	
	14 2,2'-oxybis(1-Chloropropane)	45	8.173	8.173	(1.073)	712740	25.0000	22.83	
	13 2-Methylphenol	108	8.184	8.184	(1.075)	775810	25.0000	22.80	
	17 Hexachloroethane	117	8.419	8.419	(1.106)	390344	25.0000	21.66	
	16 N-Nitroso-di-n-propylamine	70	8.396	8.396	(1.103)	521094	25.0000	22.37	
	15 4-Methylphenol	108	8.419	8.419	(1.106)	812916	25.0000	23.02	
$	18 Nitrobenzene-d5	82	8.555	8.555	(0.879)	800898	25.0000	24.13	
	19 Nitrobenzene	77	8.584	8.584	(0.882)	789604	25.0000	24.03	
	20 Isophorone	82	8.966	8.966	(0.921)	1290735	25.0000	23.65	
	21 2-Nitrophenol	139	9.095	9.095	(0.934)	534766	25.0000	26.05	
	22 2,4-Dimethylphenol	107	9.242	9.242	(0.949)	860366	25.0000	23.54	
	23 Bis(2-Chloroethoxy)methane	93	9.371	9.371	(0.963)	950151	25.0000	24.98	
	24 Benzoic acid	105	9.565	9.565	(0.982)	1289480	50.0000	43.87	
	25 2,4-Dichlorophenol	162	9.494	9.494	(0.975)	797416	25.0000	24.84	
	26 1,2,4-Trichlorobenzene	180	9.606	9.606	(0.987)	850131	25.0000	23.77	
*	27 Naphthalene-d8	136	9.659	9.659	(1.000)	2144165	20.0000		(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.688	9.688	(0.995)	2400971	25.0000	23.60
	29 4-Chloroaniline	127	9.847	9.847	(1.011)	992499	25.0000	24.47
	30 Hexachlorobutadiene	225	10.006	10.006	(1.028)	456727	25.0000	22.51
	31 4-Chloro-3-methylphenol	107	10.687	10.687	(1.098)	735282	25.0000	24.97
	32 2-Methylnaphthalene	142	10.804	10.804	(1.110)	1625885	25.0000	23.52
	33 Hexachlorocyclopentadiene	237	11.180	11.180	(0.894)	355659	25.0000	18.81
	34 2,4,6-Trichlorophenol	196	11.333	11.333	(0.906)	553707	25.0000	23.80
	35 2,4,5-Trichlorophenol	196	11.398	11.398	(0.912)	609738	25.0000	25.74
$	36 2-Fluorobiphenyl	172	11.451	11.451	(0.916)	1806822	25.0000	22.82
	37 2-Chloronaphthalene	162	11.580	11.580	(0.926)	1625784	25.0000	23.13
	38 2-Nitroaniline	65	11.827	11.827	(0.946)	363813	25.0000	26.81
	39 Dimethylphthalate	163	12.208	12.208	(0.976)	1894893	25.0000	22.95
	40 Acenaphthylene	152	12.250	12.250	(0.980)	2536875	25.0000	23.93
	41 2,6-Dinitrotoluene	165	12.297	12.297	(0.984)	478798	25.0000	25.77
*	42 Acenaphthene-d10	164	12.502	12.502	(1.000)	1292381	20.0000	
	43 3-Nitroaniline	138	12.508	12.508	(1.000)	417006	25.0000	25.46
	44 Acenaphthene	153	12.555	12.555	(1.004)	1604397	25.0000	23.24
	45 2,4-Dinitrophenol	184	12.678	12.678	(1.014)	553017	50.0000	50.55
	46 Dibenzofuran	168	12.813	12.813	(1.025)	2152939	25.0000	23.40
	47 4-Nitrophenol	109	12.860	12.860	(1.029)	227720	25.0000	19.67
	48 2,4-Dinitrotoluene	165	12.919	12.919	(1.033)	622797	25.0000	25.42
	50 Diethylphthalate	149	13.354	13.354	(1.068)	1878490	25.0000	21.99
	49 Fluorene	166	13.366	13.366	(1.069)	1829263	25.0000	22.98
	51 4-Chlorophenyl-phenylether	204	13.401	13.401	(1.072)	915337	25.0000	23.71
	52 4-Nitroaniline	138	13.501	13.501	(1.080)	443171	25.0000	24.97
	53 4,6-Dinitro-2-methylphenol	198	13.577	13.577	(0.913)	759389	50.0000	51.69
	54 N-Nitrosodiphenylamine	169	13.612	13.612	(0.916)	1407135	25.0000	23.43
$	55 2,4,6-Tribromophenol	330	13.789	13.789	(1.103)	218926	25.0000	23.69
	56 4-Bromophenyl-phenylether	248	14.170	14.170	(0.953)	503768	25.0000	23.15
	57 Hexachlorobenzene	284	14.388	14.388	(0.968)	508079	25.0000	22.79
	58 Pentachlorophenol	266	14.693	14.693	(0.989)	264540	25.0000	17.42
*	59 Phenanthrene-d10	188	14.864	14.864	(1.000)	2129152	20.0000	
	60 Phenanthrene	178	14.899	14.899	(1.002)	2427775	25.0000	22.01
	61 Anthracene	178	14.969	14.969	(1.007)	2531681	25.0000	22.44
	62 Carbazole	167	15.263	15.263	(1.027)	2278917	25.0000	22.23
	63 Di-n-butylphthalate	149	15.986	15.986	(1.075)	2899289	25.0000	22.18
	64 Fluoranthene	202	16.820	16.820	(1.132)	2538621	25.0000	22.21
	65 Pyrene	202	17.166	17.166	(0.896)	2589924	25.0000	24.25
$	66 Terphenyl-d14	244	17.495	17.495	(0.914)	1537019	25.0000	23.56
	67 Butylbenzylphthalate	149	18.388	18.388	(0.960)	1383786	25.0000	25.53
	68 Benzo(a)anthracene	228	19.123	19.123	(0.998)	2369538	25.0000	24.00
*	69 Chrysene-d12	240	19.152	19.152	(1.000)	1684492	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.146	19.146	(1.000)	836018	25.0000	26.18
	71 Chrysene	228	19.193	19.193	(1.002)	2309844	25.0000	23.90
	72 bis(2-Ethylhexyl)phthalate	149	19.393	19.393	(0.954)	1909539	25.0000	24.92
*	134 Di-n-octylphthalate-d4	153	20.327	20.327	(1.000)	2699502	20.0000	
	73 Di-n-octylphthalate	149	20.339	20.339	(1.001)	3011481	25.0000	22.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.773	20.773	(0.975)	2572292	25.0000	22.58
75	Benzo(k)fluoranthene	252	20.809	20.809	(0.977)	2607710	25.0000	22.59
187	Total Benzofluoranthenes	252	20.809	20.809	(0.977)	4846054	50.0000	44.87
76	Benzo(a)pyrene	252	21.220	21.220	(0.996)	2333205	25.0000	23.09
* 77	Perylene-d12	264	21.296	21.296	(1.000)	1830400	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.688	22.688	(1.065)	2690771	25.0000	24.79
79	Dibenzo(a,h)anthracene	278	22.712	22.712	(1.066)	2183516	25.0000	25.03
80	Benzo(g,h,i)perylene	276	23.047	23.047	(1.082)	2280306	25.0000	24.58
90	N-Nitrosodimethylamine	74	2.815	2.815	(0.370)	423161	25.0000	22.49
103	Pyridine	79	2.780	2.780	(0.365)	770234	25.0000	23.74
91	Aniline	93	7.180	7.180	(0.943)	1032892	25.0000	22.22
105	1-methylnaphthalene	142	10.975	10.975	(1.127)	1586087	25.0000	23.42

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08201001.d
Lab Smp Id: CC0820
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-

Calibration Date: 20-AUG-2010
Calibration Time: 11:33
Client Smp ID: CC0820
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	645810	81.16
27 Naphthalene-d8	1293412	646706	2586824	2144165	65.78
42 Acenaphthene-d10	785897	392948	1571794	1292381	64.45
59 Phenanthrene-d10	1313990	656995	2627980	2129152	62.04
69 Chrysene-d12	1155293	577646	2310586	1684492	45.81
134 Di-n-octylphthala	1825297	912648	3650594	2699502	47.89
77 Perylene-d12	1146289	573144	2292578	1830400	59.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.61	7.11	8.11	7.61	0.00
27 Naphthalene-d8	9.66	9.16	10.16	9.66	0.00
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	0.00
59 Phenanthrene-d10	14.86	14.36	15.36	14.86	0.00
69 Chrysene-d12	19.15	18.65	19.65	19.15	0.00
134 Di-n-octylphthala	20.33	19.83	20.83	20.33	0.00
77 Perylene-d12	21.30	20.80	21.80	21.30	0.00

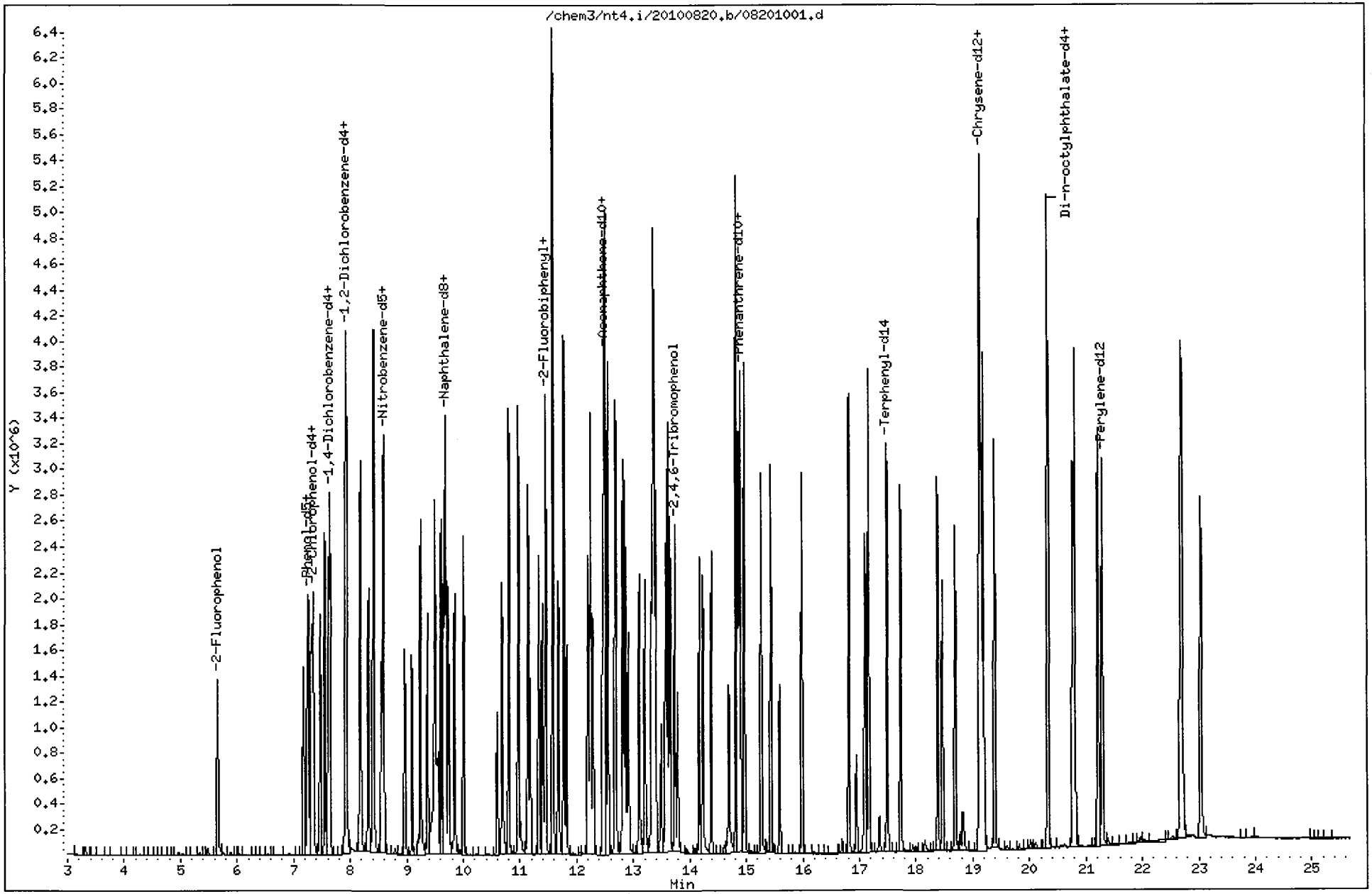
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100820.b/08201001.d
Date : 20-AUG-2010 11:33
Client ID: CC0820
Sample Info: CC0820,

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



Data File: /chem3/nt4.i/20100820.b/tune.b/08201001.d

Date : 20-AUG-2010 11:33

Client ID: DFTPP0820

Instrument: nt4.i

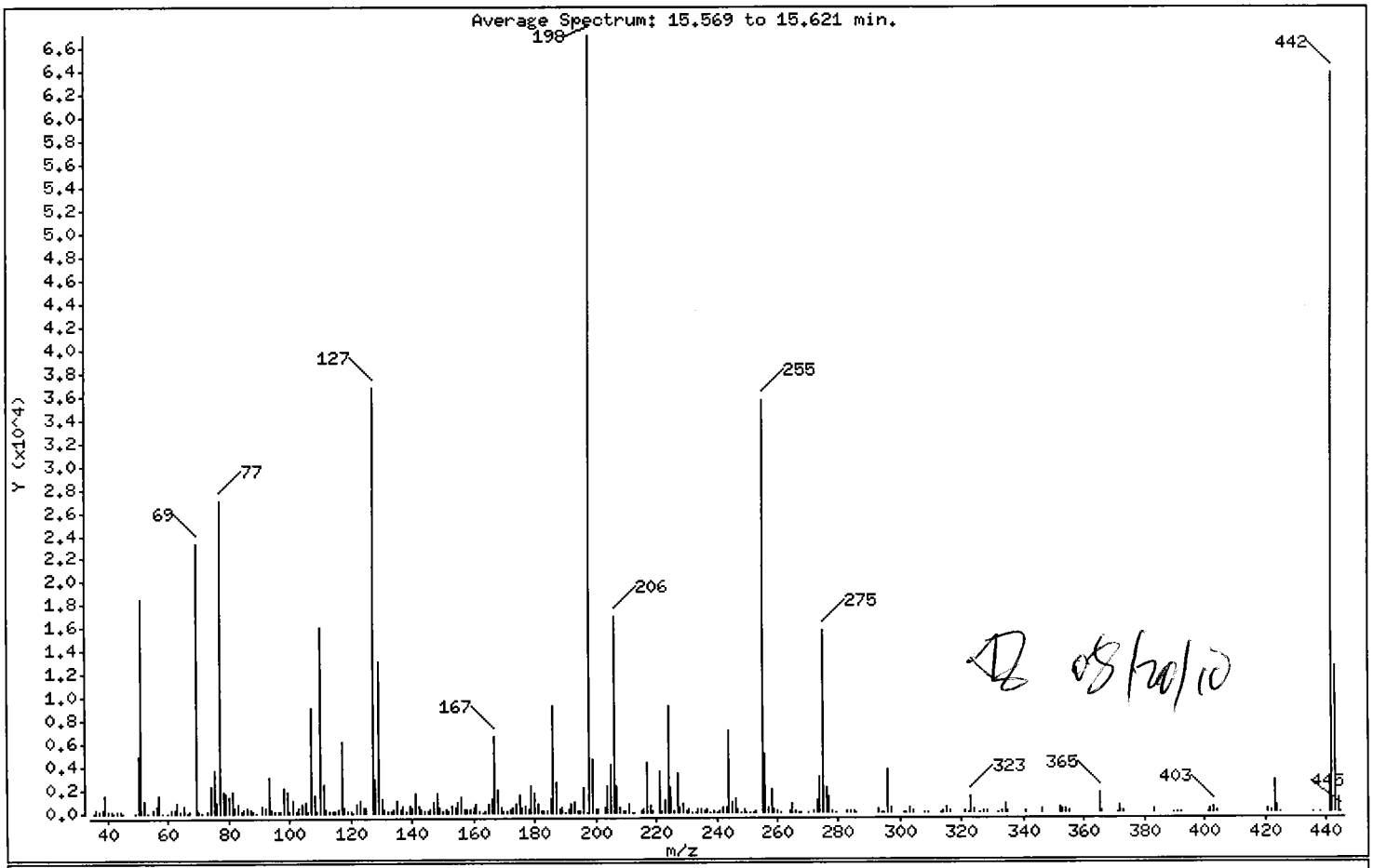
Sample Info: DFTPP0820,

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	27.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.64
70	Less than 2.00% of mass 69	0.21 (0.61)
127	10.00 - 80.00% of mass 198	54.61
197	Less than 2.00% of mass 198	0.10
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 60.00% of mass 198	23.49
365	Greater than 1.00% of mass 198	2.57
441	0.01 - 24.00% of mass 442	3.96 (4.16)
442	50.00 - 200.00% of mass 198	95.23
443	15.00 - 24.00% of mass 442	18.90 (19.85)

Data File: /chem3/nt4.i/20100820.b/tune.b/08201001.d

Date : 20-AUG-2010 11:33

Client ID: DFTPP0820

Instrument: nt4.i

Sample Info: DFTPP0820,

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08201001.d
Spectrum: Average Spectrum: 15.569 to 15.621 min.
Location of Maximum: 198.00
Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	36	116.00	323	190.00	56	270.00	16
36.00	338	117.00	6103	191.00	285	272.00	86
37.00	100	118.00	453	192.00	755	273.00	1023
38.00	370	119.00	94	193.00	933	274.00	3013
39.00	1580	120.00	125	194.00	214	275.00	15776
40.00	81	121.00	65	195.00	145	276.00	2192
41.00	195	122.00	757	196.00	2161	277.00	1380
42.00	17	123.00	1050	197.00	70	278.00	213
43.00	227	124.00	478	198.00	67152	279.00	16
44.00	97	125.00	426	199.00	4596	283.00	111
45.00	33	127.00	36672	200.00	336	284.00	90
49.00	16	128.00	2862	201.00	372	285.00	188
50.00	4919	129.00	13137	203.00	452	286.00	36
51.00	18560	130.00	1269	204.00	2301	293.00	288
52.00	1113	131.00	270	205.00	4141	294.00	43
53.00	40	132.00	122	206.00	17048	295.00	22
55.00	340	133.00	112	207.00	2338	296.00	3709
56.00	612	134.00	346	208.00	537	297.00	459
57.00	1575	135.00	1015	209.00	163	301.00	20
58.00	59	136.00	366	210.00	106	302.00	31
60.00	15	137.00	612	211.00	756	303.00	399
61.00	299	138.00	215	212.00	58	304.00	93
62.00	345	139.00	559	213.00	36	308.00	34
63.00	883	140.00	540	215.00	137	309.00	15
64.00	132	141.00	1751	216.00	265	313.00	19
65.00	595	142.00	542	217.00	4348	314.00	196
66.00	15	143.00	379	218.00	556	315.00	413
67.00	79	144.00	109	219.00	106	316.00	226
69.00	23264	145.00	132	221.00	3624	321.00	143
70.00	143	146.00	309	222.00	110	322.00	33
71.00	30	147.00	888	223.00	1007	323.00	1326
73.00	209	148.00	1695	224.00	9187	324.00	289
74.00	2340	149.00	401	225.00	2162	326.00	33
75.00	3754	150.00	191	226.00	100	327.00	189
76.00	929	151.00	309	227.00	3385	328.00	141

Data File: /chem3/nt4.i/20100820.b/tune.b/08201001.d

Date : 20-AUG-2010 11:33

Client ID: DFTPP0820

Instrument: nt4.i

Sample Info: DFTPP0820,

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08201001.d
Spectrum: Average Spectrum: 15.569 to 15.621 min.
Location of Maximum: 198.00
Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	27056	152.00	181	228.00	518	332.00	62
78.00	1852	153.00	570	229.00	835	333.00	95
79.00	1688	154.00	412	230.00	121	334.00	801
80.00	1326	155.00	938	231.00	364	335.00	222
81.00	1883	156.00	1378	232.00	22	341.00	137
82.00	533	157.00	277	233.00	32	346.00	260
83.00	845	158.00	267	234.00	240	352.00	399
84.00	202	159.00	267	235.00	287	353.00	303
85.00	323	160.00	481	236.00	165	354.00	384
86.00	534	161.00	808	237.00	280	355.00	78
87.00	357	162.00	220	238.00	25	365.00	1723
88.00	140	163.00	59	239.00	136	366.00	213
89.00	54	164.00	216	240.00	70	371.00	60
91.00	582	165.00	782	241.00	183	372.00	663
92.00	487	166.00	1267	242.00	452	373.00	157
93.00	3030	167.00	6574	243.00	435	383.00	254
94.00	308	168.00	1969	244.00	7045	390.00	35
95.00	218	169.00	430	245.00	942	391.00	20
96.00	178	170.00	103	246.00	1238	392.00	16
97.00	81	171.00	165	247.00	339	401.00	16
98.00	2218	172.00	278	248.00	61	402.00	261
99.00	1837	173.00	478	249.00	310	403.00	409
100.00	165	174.00	721	250.00	18	404.00	119
101.00	1089	175.00	1553	251.00	38	421.00	382
102.00	87	176.00	392	252.00	67	422.00	175
103.00	418	177.00	659	253.00	197	423.00	2706
104.00	750	178.00	318	255.00	35592	424.00	542
105.00	928	179.00	2353	256.00	5140	425.00	23
106.00	155	180.00	1679	257.00	424	436.00	20
107.00	9084	181.00	820	258.00	1998	438.00	32
108.00	1591	182.00	190	259.00	310	441.00	2658
109.00	104	183.00	88	260.00	94	442.00	63952
110.00	16100	184.00	211	261.00	28	443.00	12693
111.00	2489	185.00	1224	264.00	187	444.00	1170
112.00	315	186.00	9190	265.00	760	445.00	75

Data File: /chem3/nt4.i/20100820.b/tune.b/08201001.d

Date : 20-AUG-2010 11:33

Client ID: DFTPP0820

Instrument: nt4.i

Sample Info: DFTPP0820,

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08201001.d
Spectrum: Average Spectrum: 15.569 to 15.621 min.
Location of Maximum: 198.00
Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	171	187.00	2609	266.00	189		
114.00	98	188.00	266	267.00	16		
115.00	127	189.00	487	268.00	16		

Data File: /chem3/nt4.i/20100820.b/tune.b/08201001.d

Date : 20-AUG-2010 11:33

Client ID: DFTPP0820

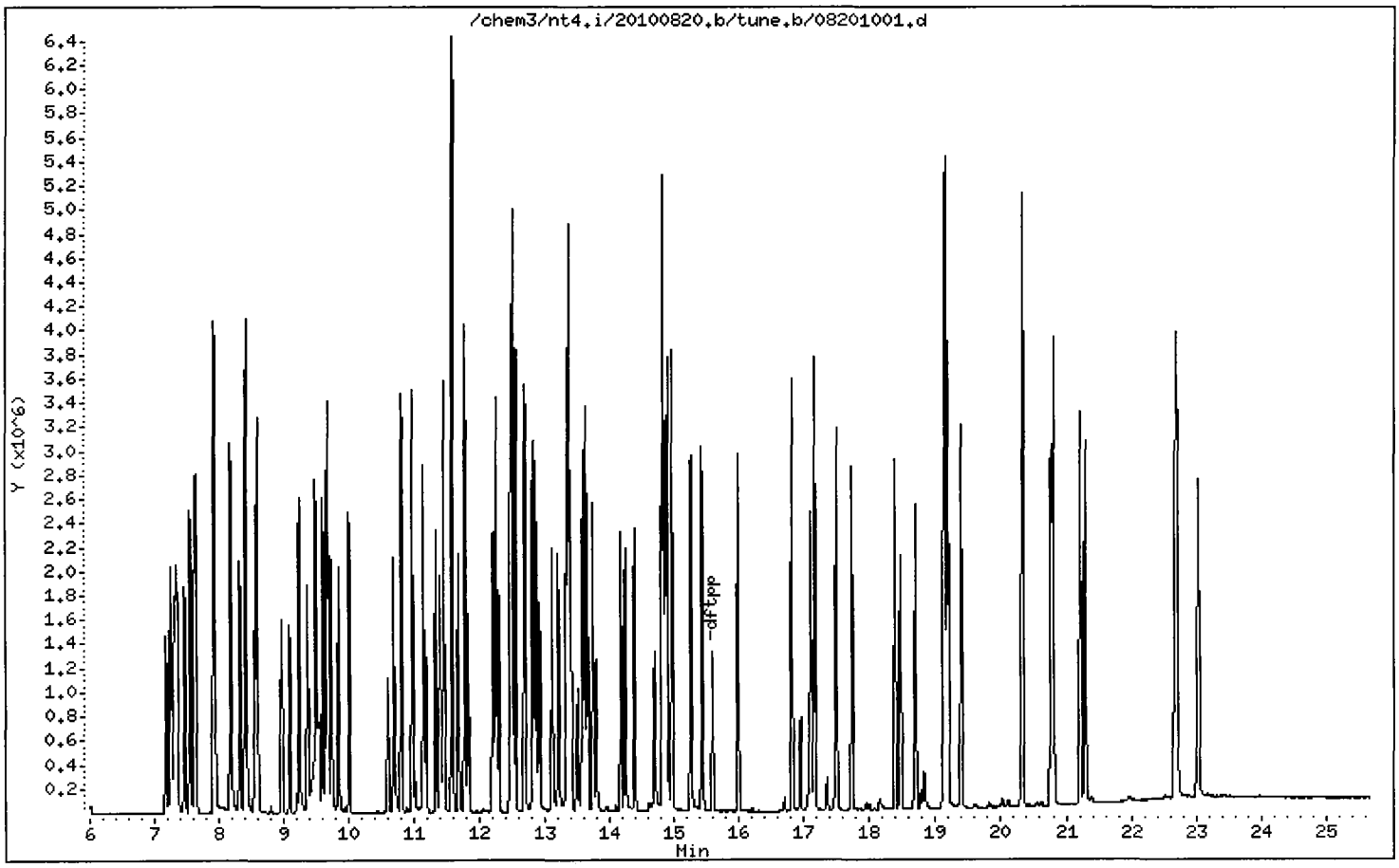
Instrument: nt4.i

Sample Info: DFTPP0820,

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100820.b/ddt.b/08201001.d ARI ID: CC0820
Method: /chem3/nt4.i/20100820.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 20-AUG-2010 11:33 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	14.693	259745
Benzidine	12.678	550432
4,4'-DDE	----	----
4,4'-DDD	18.001	13169
4,4'-DDT	18.471	691796

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

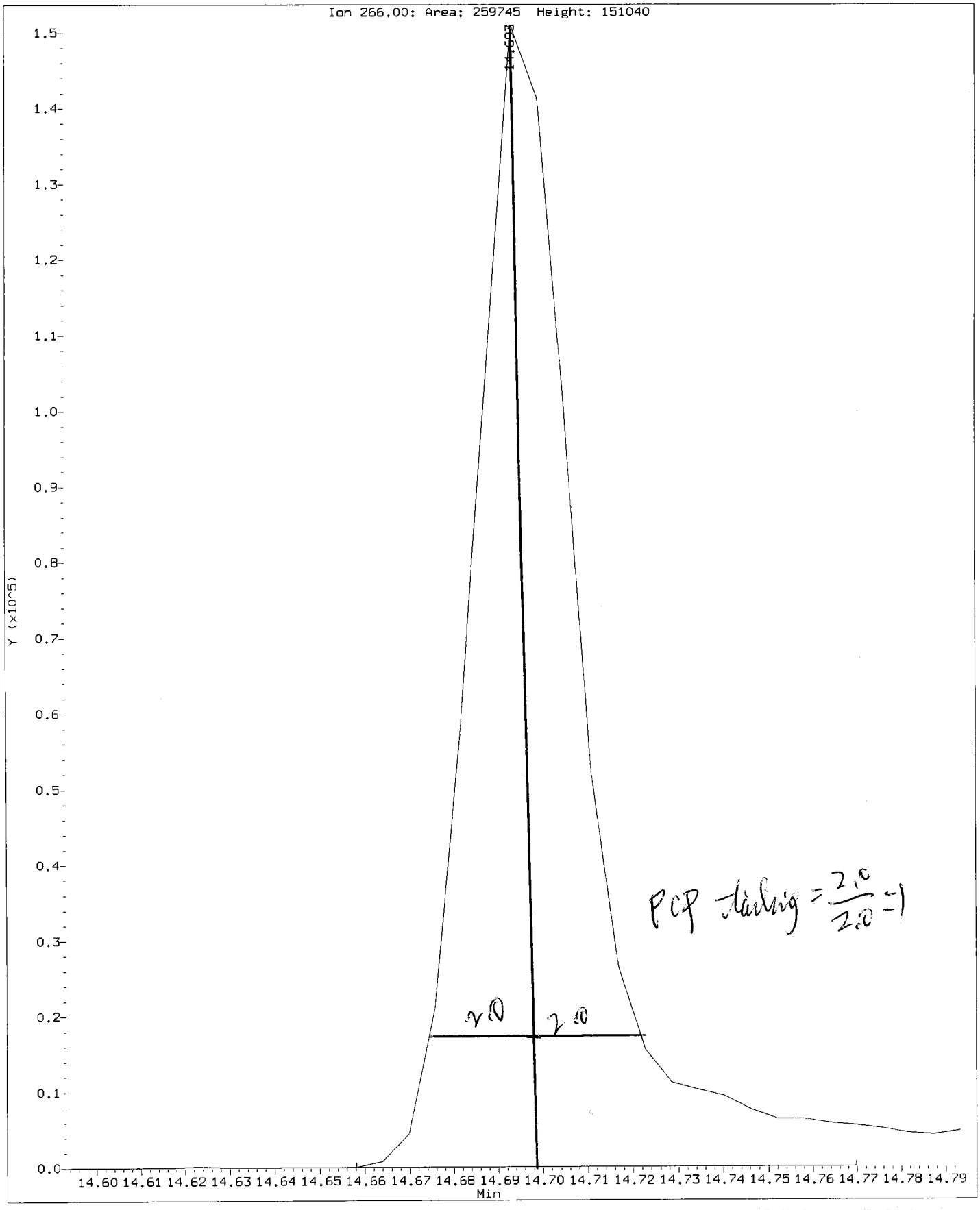
$$\text{DDT Percent Breakdown} = \frac{(0 + 13169) * 100}{(0 + 13169 + 691796)}$$

DDT Percent Breakdown = 1.9 %

0/C AZ 08/20/10

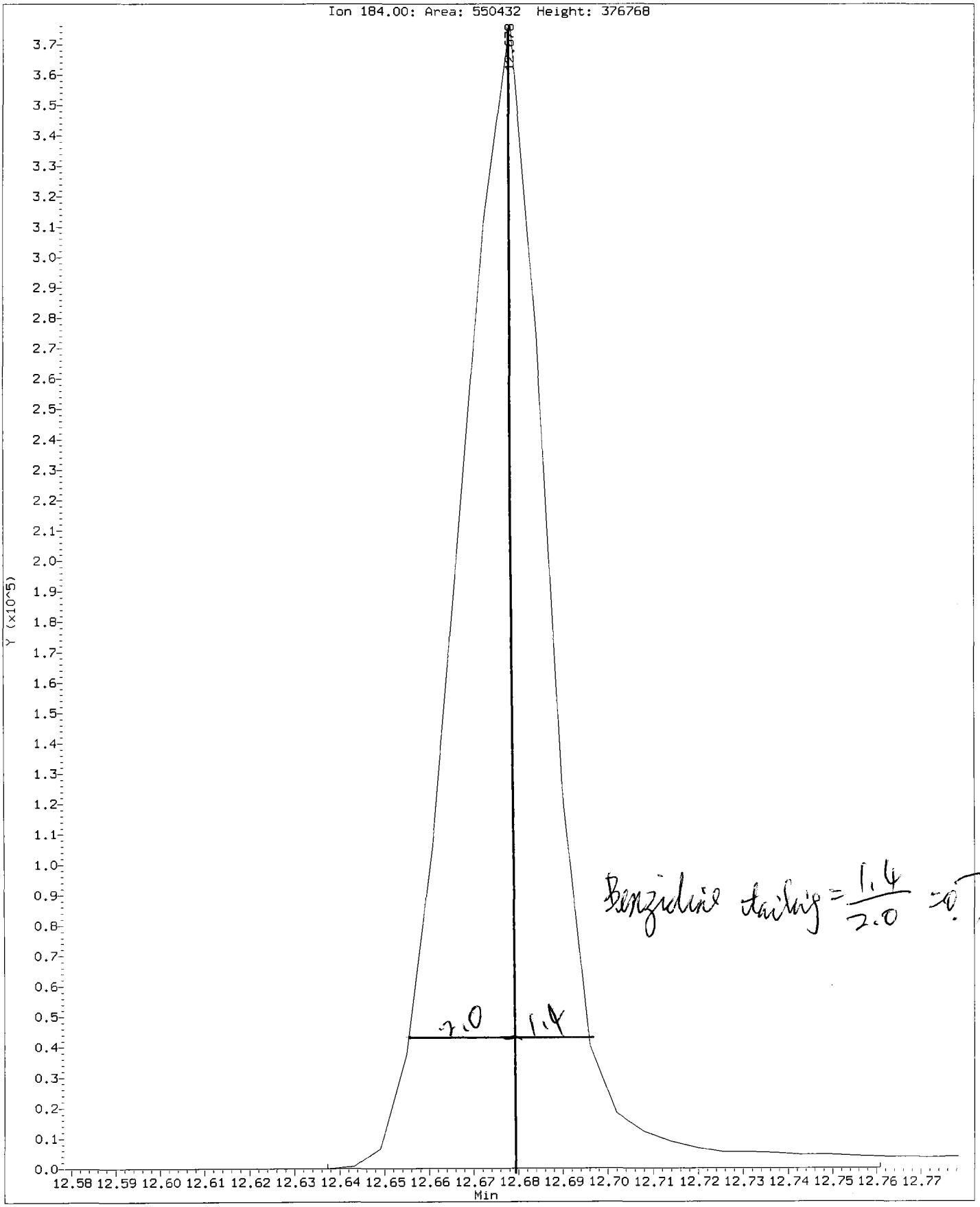
Data File: /chem3/nt4.i/20100820.b/ddt.b/08201001.d
Injection Date: 20-AUG-2010 11:33
Instrument: nt4.i
Client Sample ID: CC0820

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100820.b/ddt.b/08201001.d
Injection Date: 20-AUG-2010 11:33
Instrument: nt4.i
Client Sample ID: CC0820

Compound: Benzidine
CAS Number:



Benzidine tailing = $\frac{1.4}{2.0}$ = 0.7

RG94 : 01024

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100820.b/08201002.d
Lab Smp Id: RG94MBW2 Client Smp ID: RG94MBW2
Inj Date : 20-AUG-2010 12:14
Operator : JZ Inst ID: nt4.i
Smp Info : RG94MBW2,
Misc Info : 10-21149
Comment : 1ul Injection
Method : /chem3/nt4.i/20100820.b/SW846100719.m
Meth Date : 24-Aug-2010 15:40 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/24/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 27 Naphthalene-d8	136	9.647	9.659	(1.000)	1685318	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	142	Compound Not Detected.					
105 1-methylnaphthalene	142	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	11.445	11.451	(0.916)	1039193	16.9042	16.90
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	12.496	12.502	(1.000)	1003587	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.852	14.864	(1.000)	1609277	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	17.495	17.495	(0.914)	1059409	19.9645	19.96
68 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 69 Chrysene-d12	240	19.140	19.152	(1.000)	1370407	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	21.290	21.296	(1.000)	1367417	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08201002.d
Lab Smp Id: RG94MBW2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

Calibration Date: 20-AUG-2010
Calibration Time: 11:33
Client Smp ID: RG94MBW2
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1685318	30.30
42 Acenaphthene-d10	785897	392948	1571794	1003587	27.70
59 Phenanthrene-d10	1313990	656995	2627980	1609277	22.47
69 Chrysene-d12	1155293	577646	2310586	1370407	18.62
77 Perylene-d12	1146289	573144	2292578	1367417	19.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.66	9.16	10.16	9.65	-0.12
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.05
59 Phenanthrene-d10	14.86	14.36	15.36	14.85	-0.08
69 Chrysene-d12	19.15	18.65	19.65	19.14	-0.06
77 Perylene-d12	21.30	20.80	21.80	21.29	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG94MBW2
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

Client SDG: RG94
Fraction: SV
Client Smp ID: RG94MBW2
Operator: JZ
SampleType: BLANK
Quant Type: ISTD

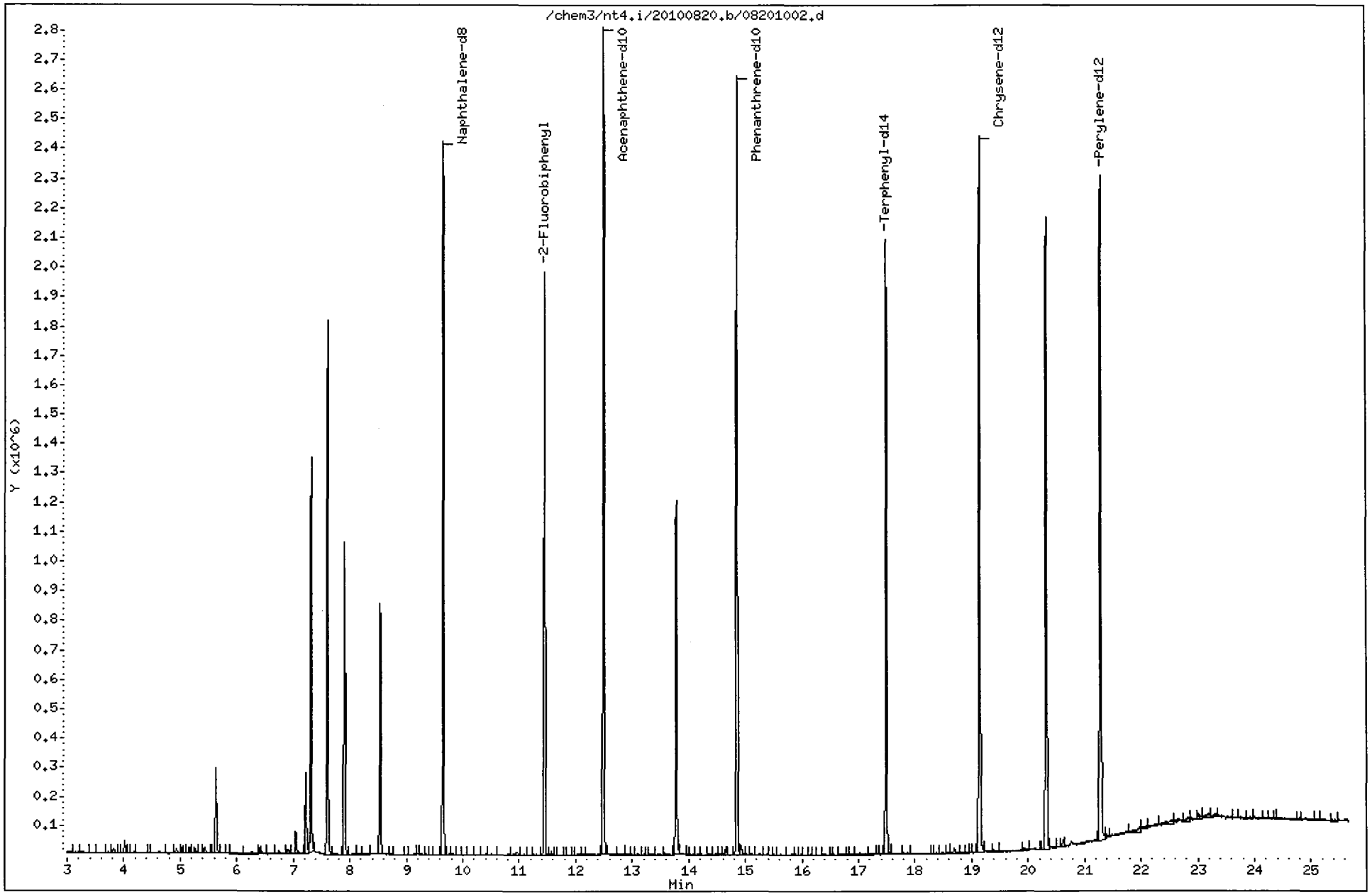
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
28 Naphthalene	25.00	0.000	*	37-100
32 2-Methylnaphthale	25.00	0.000	*	43-101
105 1-methylnaphthale	25.00	0.000	*	39-100
40 Acenaphthylene	25.00	0.000	*	44-100
44 Acenaphthene	25.00	0.000	*	41-100
46 Dibenzofuran	25.00	0.000	*	44-100
49 Fluorene	25.00	0.000	*	49-100
60 Phenanthrene	25.00	0.000	*	48-100
61 Anthracene	25.00	0.000	*	50-100
64 Fluoranthene	25.00	0.000	*	54-100
65 Pyrene	25.00	0.000	*	41-105
68 Benzo(a)anthracene	25.00	0.000	*	49-100
71 Chrysene	25.00	0.000	*	50-100
187 Total Benzofluora	50.00	0.000	*	30-160
76 Benzo(a)pyrene	25.00	0.000	*	50-100
78 Indeno(1,2,3-cd)p	25.00	0.000	*	33-101
79 Dibenzo(a,h)anthr	25.00	0.000	*	37-104
80 Benzo(g,h,i)peryl	25.00	0.000	*	33-107

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	16.90	67.62	38-100
$ 66 Terphenyl-d14	25.00	19.96	79.86	23-120

Data File: /chem3/nt4.i/20100820.b/08201002.d
Date : 20-AUG-2010 12:14
Client ID: RG94MBW2
Sample Info: RG94MBW2,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RG94-01923



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100820.b/08201003.d
Lab Smp Id: RG94LCSW2 Client Smp ID: RG94LCSW2
Inj Date : 20-AUG-2010 12:47
Operator : JZ Inst ID: nt4.i
Smp Info : RG94LCSW2,
Misc Info : 10-21149
Comment : 1ul Injection
Method : /chem3/nt4.i/20100820.b/SW846100719.m
Meth Date : 24-Aug-2010 15:40 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/24/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
* 27 Naphthalene-d8	136	9.647	9.659	(1.000)	1785486	20.0000	
28 Naphthalene	128	9.677	9.688	(1.003)	1235433	14.5826	14.58
32 2-Methylnaphthalene	142	10.799	10.804	(1.119)	827269	14.3686	14.37
105 1-methylnaphthalene	142	10.969	10.975	(1.137)	828383	14.6877	14.69
$ 36 2-Fluorobiphenyl	172	11.445	11.451	(0.916)	1127142	17.1433	17.14
40 Acenaphthylene	152	12.244	12.250	(0.980)	1430045	16.2404	16.24
* 42 Acenaphthene-d10	164	12.497	12.502	(1.000)	1073338	20.0000	
44 Acenaphthene	153	12.543	12.555	(1.004)	840360	14.6583	14.66
46 Dibenzofuran	168	12.802	12.813	(1.024)	1283180	16.7913	16.79
49 Fluorene	166	13.360	13.366	(1.069)	1062512	16.0696	16.07
* 59 Phenanthrene-d10	188	14.852	14.864	(1.000)	1692270	20.0000	
60 Phenanthrene	178	14.887	14.899	(1.002)	1479800	16.8800	16.88
61 Anthracene	178	14.958	14.969	(1.007)	1523066	16.9833	16.98
64 Fluoranthene	202	16.814	16.820	(1.132)	1572669	17.3144	17.31
65 Pyrene	202	17.161	17.166	(0.896)	1599217	17.6456	17.65
$ 66 Terphenyl-d14	244	17.496	17.495	(0.914)	1070365	19.3402	19.34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	68 Benzo(a)anthracene	228	19.117	19.123	(0.998)	1474554	17.5998	17.60
*	69 Chrysene-d12	240	19.146	19.152	(1.000)	1429276	20.0000	
	71 Chrysene	228	19.182	19.193	(1.002)	1423311	17.3571	17.36
	187 Total Benzofluoranthenes	252	20.803	20.809	(0.977)	3009317	34.4244	34.42
	76 Benzo(a)pyrene	252	21.208	21.220	(0.996)	1347932	16.4789	16.48
*	77 Perylene-d12	264	21.290	21.296	(1.000)	1481401	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.677	22.688	(1.065)	1689038	19.2301	19.23
	79 Dibenzo(a,h)anthracene	278	22.700	22.712	(1.066)	1343134	19.0219	19.02
	80 Benzo(g,h,i)perylene	276	23.035	23.047	(1.082)	1467863	19.5510	19.55

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08201003.d
Lab Smp Id: RG94LCSW2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

Calibration Date: 20-AUG-2010
Calibration Time: 11:33
Client Smp ID: RG94LCSW2
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1785486	38.04
42 Acenaphthene-d10	785897	392948	1571794	1073338	36.57
59 Phenanthrene-d10	1313990	656995	2627980	1692270	28.79
69 Chrysene-d12	1155293	577646	2310586	1429276	23.72
77 Perylene-d12	1146289	573144	2292578	1481401	29.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.66	9.16	10.16	9.65	-0.12
42 Acenaphthene-d10	12.50	12.00	13.00	12.50	-0.05
59 Phenanthrene-d10	14.86	14.36	15.36	14.85	-0.08
69 Chrysene-d12	19.15	18.65	19.65	19.15	-0.03
77 Perylene-d12	21.30	20.80	21.80	21.29	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG94LCSW2
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

Client SDG: RG94
Fraction: SV
Client Smp ID: RG94LCSW2
Operator: JZ
SampleType: LCS
Quant Type: ISTD

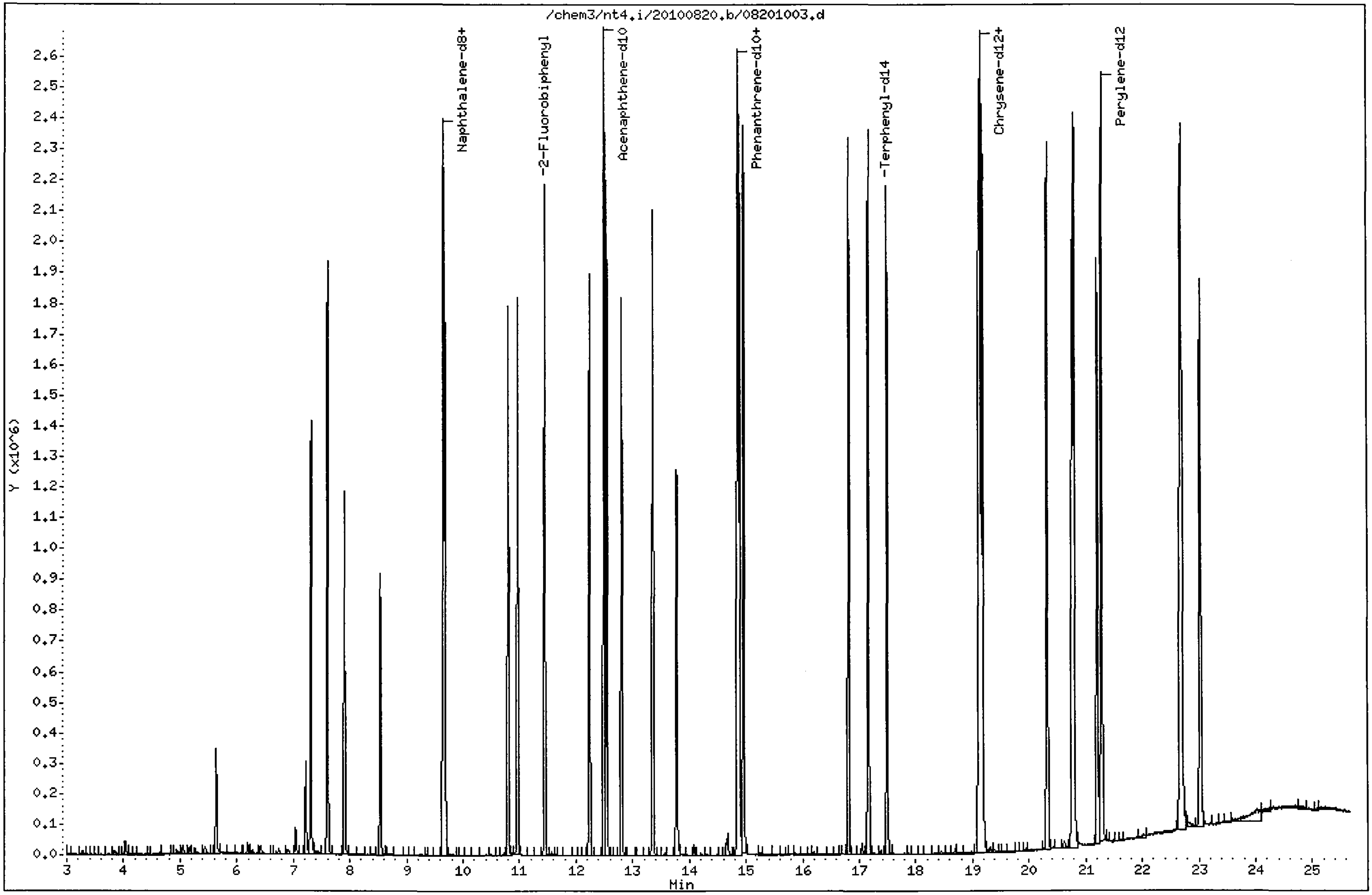
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
28 Naphthalene	25.00	14.58	58.33	37-100
32 2-Methylnaphthalen	25.00	14.37	57.47	43-101
105 1-methylnaphthalen	25.00	14.69	58.75	39-100
40 Acenaphthylene	25.00	16.24	64.96	44-100
44 Acenaphthene	25.00	14.66	58.63	41-100
46 Dibenzofuran	25.00	16.79	67.17	44-100
49 Fluorene	25.00	16.07	64.28	49-100
60 Phenanthrene	25.00	16.88	67.52	48-100
61 Anthracene	25.00	16.98	67.93	50-100
64 Fluoranthene	25.00	17.31	69.26	54-100
65 Pyrene	25.00	17.65	70.58	41-105
68 Benzo(a)anthracene	25.00	17.60	70.40	49-100
71 Chrysene	25.00	17.36	69.43	50-100
187 Total Benzofluoran	50.00	34.42	68.85	30-160
76 Benzo(a)pyrene	25.00	16.48	65.92	50-100
78 Indeno(1,2,3-cd)py	25.00	19.23	76.92	33-101
79 Dibenzo(a,h)anthra	25.00	19.02	76.09	37-104
80 Benzo(g,h,i)peryle	25.00	19.55	78.20	33-107

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	17.14	68.57	38-100
$ 66 Terphenyl-d14	25.00	19.34	77.36	23-120

Data File: /chem3/nt4.i/20100820.b/08201003.d
Date : 20-AUG-2010 12:47
Client ID: RG94LCSW2
Sample Info: RG94LCSW2,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100820.b/08201004.d
Lab Smp Id: RG94LCSDW2 Client Smp ID: RG94LCSDW2
Inj Date : 20-AUG-2010 13:21
Operator : JZ Inst ID: nt4.i
Smp Info : RG94LCSDW2,
Misc Info : 10-21149
Comment : 1ul Injection
Method : /chem3/nt4.i/20100820.b/SW846100719.m
Meth Date : 24-Aug-2010 15:40 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/24/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 27 Naphthalene-d8	136	9.648	9.659	(1.000)	1798764	20.0000	
28 Naphthalene	128	9.677	9.688	(1.003)	1254347	14.6966	14.70
32 2-Methylnaphthalene	142	10.799	10.804	(1.119)	853197	14.7096	14.71
105 1-methylnaphthalene	142	10.969	10.975	(1.137)	850207	14.9633	14.96
$ 36 2-Fluorobiphenyl	172	11.445	11.451	(0.916)	1100389	16.8374	16.84
40 Acenaphthylene	152	12.238	12.250	(0.980)	1492608	17.0531	17.05
* 42 Acenaphthene-d10	164	12.491	12.502	(1.000)	1066904	20.0000	
44 Acenaphthene	153	12.544	12.555	(1.004)	884159	15.5153	15.52
46 Dibenzofuran	168	12.802	12.813	(1.025)	1343898	17.6919	17.69
49 Fluorene	166	13.354	13.366	(1.069)	1109845	16.8866	16.89
* 59 Phenanthrene-d10	188	14.852	14.864	(1.000)	1676318	20.0000	
60 Phenanthrene	178	14.888	14.899	(1.002)	1571195	18.0931	18.09
61 Anthracene	178	14.958	14.969	(1.007)	1611714	18.1428	18.14
64 Fluoranthene	202	16.814	16.820	(1.132)	1713374	19.0430	19.04
65 Pyrene	202	17.161	17.166	(0.896)	1747979	19.3002	19.30
$ 66 Terphenyl-d14	244	17.490	17.495	(0.913)	1132868	20.4836	20.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	68 Benzo(a)anthracene	228	19.117	19.123	(0.998)	1604382	19.1625	19.16
*	69 Chrysene-d12	240	19.147	19.152	(1.000)	1428298	20.0000	
	71 Chrysene	228	19.182	19.193	(1.002)	1527908	18.6453	18.65
	187 Total Benzofluoranthenes	252	20.797	20.809	(0.977)	3320388	37.5712	37.57
	76 Benzo(a)pyrene	252	21.209	21.220	(0.996)	1476360	17.8534	17.85
*	77 Perylene-d12	264	21.291	21.296	(1.000)	1497630	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.677	22.688	(1.065)	1889553	21.2799	21.28
	79 Dibenzo(a,h)anthracene	278	22.701	22.712	(1.066)	1492374	20.9064	20.91
	80 Benzo(g,h,i)perylene	276	23.035	23.047	(1.082)	1630705	21.4845	21.48

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08201004.d
Lab Smp Id: RG94LCSDW2
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

Calibration Date: 20-AUG-2010
Calibration Time: 11:33
Client Smp ID: RG94LCSDW2
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1798764	39.07
42 Acenaphthene-d10	785897	392948	1571794	1066904	35.76
59 Phenanthrene-d10	1313990	656995	2627980	1676318	27.57
69 Chrysene-d12	1155293	577646	2310586	1428298	23.63
77 Perylene-d12	1146289	573144	2292578	1497630	30.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.66	9.16	10.16	9.65	-0.12
42 Acenaphthene-d10	12.50	12.00	13.00	12.49	-0.09
59 Phenanthrene-d10	14.86	14.36	15.36	14.85	-0.08
69 Chrysene-d12	19.15	18.65	19.65	19.15	-0.03
77 Perylene-d12	21.30	20.80	21.80	21.29	-0.03

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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: RG94LCSDW2
Client Smp ID: RG94LCSDW2
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: LCSD
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-21149

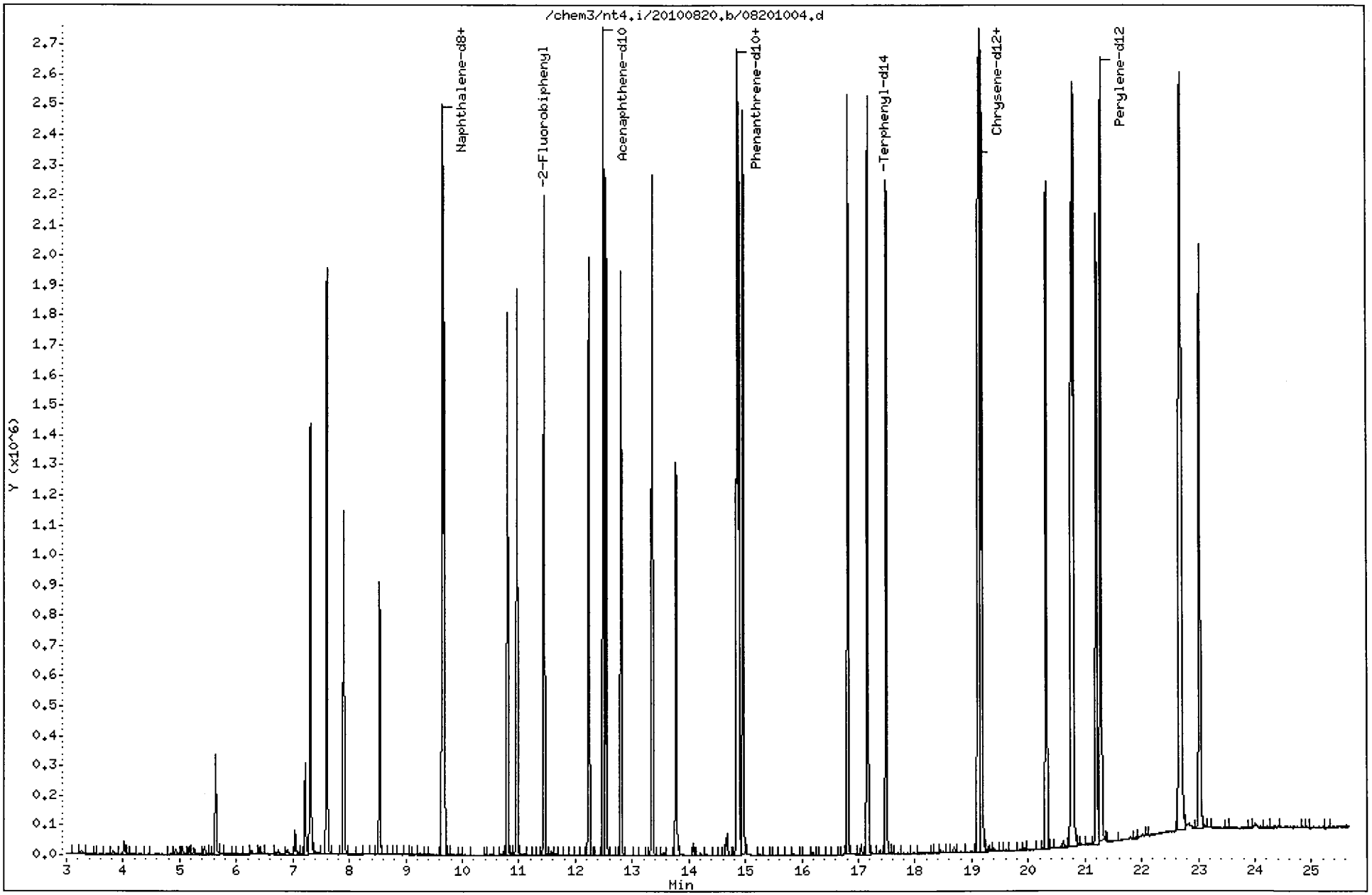
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
28 Naphthalene	25.00	14.70	58.79	37-100
32 2-Methylnaphthalen	25.00	14.71	58.84	43-101
105 1-methylnaphthalen	25.00	14.96	59.85	39-100
40 Acenaphthylene	25.00	17.05	68.21	44-100
44 Acenaphthene	25.00	15.52	62.06	41-100
46 Dibenzofuran	25.00	17.69	70.77	44-100
49 Fluorene	25.00	16.89	67.55	49-100
60 Phenanthrene	25.00	18.09	72.37	48-100
61 Anthracene	25.00	18.14	72.57	50-100
64 Fluoranthene	25.00	19.04	76.17	54-100
65 Pyrene	25.00	19.30	77.20	41-105
68 Benzo(a)anthracene	25.00	19.16	76.65	49-100
71 Chrysene	25.00	18.65	74.58	50-100
187 Total Benzofluoran	50.00	37.57	75.14	30-160
76 Benzo(a)pyrene	25.00	17.85	71.41	50-100
78 Indeno(1,2,3-cd)py	25.00	21.28	85.12	33-101
79 Dibenzo(a,h)anthra	25.00	20.91	83.63	37-104
80 Benzo(g,h,i)peryle	25.00	21.48	85.94	33-107

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	16.84	67.35	38-100
$ 66 Terphenyl-d14	25.00	20.48	81.93	23-120

Data File: /chem3/nt4.i/20100820.b/08201004.d
Date : 20-AUG-2010 13:21
Client ID: RG94LCSDW2
Sample Info: RG94LCSDW2,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RG94:01039



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100820.b/08201005.d
Lab Smp Id: RG94KRE Client Smp ID: MW12-ER-080210
Inj Date : 20-AUG-2010 13:54
Operator : JZ Inst ID: nt4.i
Smp Info : RG94KRE
Misc Info : 10-18604
Comment : 1ul Injection
Method : /chem3/nt4.i/20100820.b/SW846100719.m
Meth Date : 24-Aug-2010 15:03 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/24/10

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Vo	500.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 27 Naphthalene-d8	136	9.650	9.659	(1.000)	1845237	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	142	Compound Not Detected.					
105 1-methylnaphthalene	142	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	11.447	11.451	(0.916)	1177919	17.7831	17.78
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	12.493	12.502	(1.000)	1081338	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.849	14.864	(1.000)	1727594	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					
$ 66 Terphenyl-d14	244	17.492	17.495	(0.914)	1049180	18.2662	18.27
68 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
* 69 Chrysene-d12	240	19.137	19.152	(1.000)	1483361	20.0000	
71 Chrysene	228	Compound Not Detected.					
187 Total Benzofluoranthenes	252	Compound Not Detected.					
76 Benzo(a)pyrene	252	Compound Not Detected.					
* 77 Perylene-d12	264	21.287	21.296	(1.000)	1470438	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08201005.d
Lab Smp Id: RG94KRE
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-18604

Calibration Date: 20-AUG-2010
Calibration Time: 11:33
Client Smp ID: MW12-ER-080210
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1845237	42.66
42 Acenaphthene-d10	785897	392948	1571794	1081338	37.59
59 Phenanthrene-d10	1313990	656995	2627980	1727594	31.48
69 Chrysene-d12	1155293	577646	2310586	1483361	28.40
77 Perylene-d12	1146289	573144	2292578	1470438	28.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.66	9.16	10.16	9.65	-0.09
42 Acenaphthene-d10	12.50	12.00	13.00	12.49	-0.07
59 Phenanthrene-d10	14.86	14.36	15.36	14.85	-0.10
69 Chrysene-d12	19.15	18.65	19.65	19.14	-0.08
77 Perylene-d12	21.30	20.80	21.80	21.29	-0.04

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.

Analytical Resources, Inc.

RECOVERY REPORT

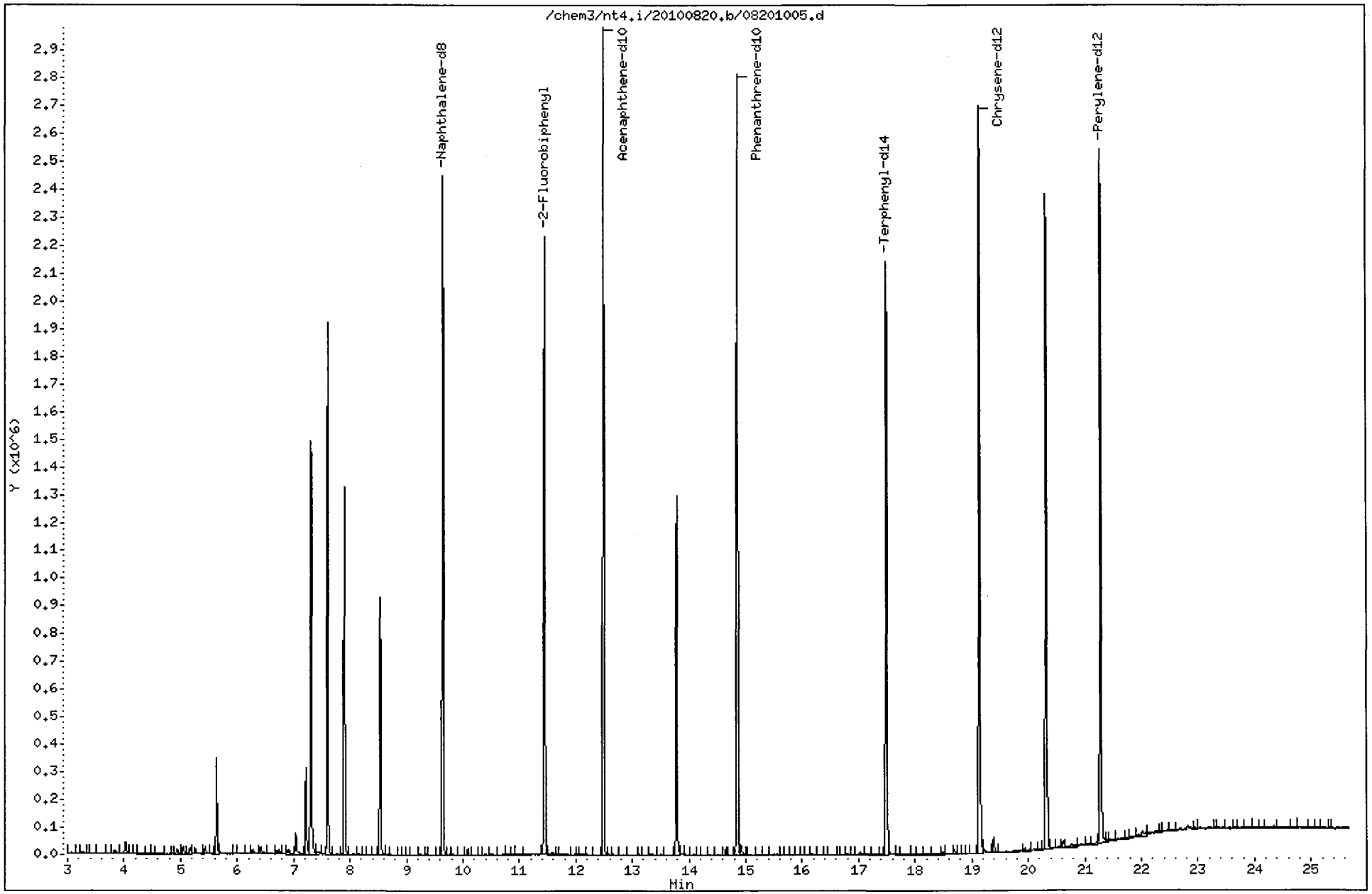
Client Name: Floyd/Snider
Client SDG: RG94
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: RG94KRE
Client Smp ID: MW12-ER-080210
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100820.b/SW846100719.m
Misc Info: 10-18604

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	25.00	17.78	71.13	38-100
$ 66 Terphenyl-d14	25.00	18.27	73.06	23-120

Data File: /chem3/nt4.i/20100820.b/08201005.d
Date : 20-AUG-2010 13:54
Client ID: MW12-ER-080210
Sample Info: RG94KRE
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RG94KRE



PCP/Chlorophenols Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG94

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – (Soil) / Sediment
Sonication (3550C) (SOP # 3304S)

Preparation Test PCP # 3

In-House (6.25ppb)

ARI Job No(s) RG94

Batch set up by: ~~SH~~

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Sonic Horn ID + Check	KD **Exchange To Hexane (X 2)**	Turbo Vap 1 (2) 3	Final Effective Volume	Volume to Lab	Derivitize	Comments
	RG94 MB	Date 8-14-10	10.00g	12			25mL	1-2mL		
	SB	↓	↓	11			↓	↓		
6	A	verified	10.16	10						
7	B		10.52	9						
5	C		10.38	8						
6	D		10.91	7						
6	E		10.56	6						
7	F		10.59	5						
7	G		10.14	4						
	H		10.12	3						
	Hms		10.75	2						
	Hmsd		10.57	1						
	I		10.72	10						
	J		10.62	9						
	~~K~~ SH spiking		1ml.							
Analyst/Date	AC 8-14-10				TSI 8-17-10	WO 08/17/10	WO 08/17/10	WO 08/17/10		

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**F** 1663-3	**50**µL 12.5	12/09/10	AC	TH
Spike	**6** 1702-2	**50**µL 12.5 | 12.5	2/18/11	AC	TH
Extraction Time: 12:33	**Balance ID:** 2415 #347	**Derivitized by:**		**Diazald ID:**	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Use neutral sulfate to dry samples.

3. Acidify all with ¼ pipet conc. Sulfuric Acid. 4. Add surr/spike. 5. Leave in DCM overnight. 6. Extract 3X DCM.

7. Pour directly into KD (NO Glasswool). 8. KD to 5mL at 80°. 9. Exchange (2 X with 20mL) Hexane at 100°.

10. *Note: if filtering is necessary: Pre-rinse filter with 0.05% HCL in Acetone+Post Rinse with Hexane or centrifuge.

11. Turbo Vap to 1mL 11. Vial using a pipet into Herb Tubes with a Hexane rinse. 12. GC Analyst to Derivitize.

A. Need Total Solids Y (N) B. Archive / Freeze Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG94 Client ID: Floyd/Snider

Parameter: PCP Client Project: POS-LLA (Lora Lake Apartments

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☒ No Anomalies (standard soil/sediment)	
☒ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☒ Other (Details)= see 8270 PNA PSDDA Analyst Notes (green sheet)	AC 8-14-16
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

554

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Serial # ~~00515~~

REQUEST FOR RE-EXTRACTION / RE-ANALYSIS
(Organic Analyses)

Todays Date: 8/23/2010 **Client Name:** Floyd-Snider

ARI Project Number: RG94 **Client Project:** POS-LLA

Analysis: PCP **Turn Around Time:** 8/14/2010

Project Manager: Sue **Date Sampled:** 8/2/2010

Sample Matrix Soil

Criteria Flagged

Unacceptable Blank: ☐ **Unacceptable Surrogate:** ☒

Unacceptable Duplicate: ☐ **Instrument Problem:** ☐

Unacceptable Spike: ☐ **Other:** ☐

Overwrite LIMS: ☐ **Enter as Re-extract:** ☐

Details of Problem / Recommended Corrective Action

-Surr in samples (3samples) is v.low, almost undetectable.

Samples Affected

A, E & F

Corrective Action Taken

Re-extract

Analyst: AR **Supervisor:**

Date: 8/23/2010 **Date:** 8/23/10

Form 0030F

Revision 005
6/26/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – Soil / Sediment
Sonication (3550C) (SOP # 3304S)

Preparation Test PCP # 3

In-House (6.25ppb)

ARI Job No(s) RG78(RX) / RG94 (RX)

Batch set up by: ~~SH~~

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Sonic Horn ID + Check	KD Exchange To Hexane (X 2)	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Derivitize	Comments
	RG78(RX) MB	Date 08/27/10	10.00g	1			25mL	1-2mL		
	SB	↓	↓	2			↓	↓		
2	S2	checked	10.08	3						
6	RG94(RX) A2		10.07	4						
6	E2		10.01	5						
7	F2	↓	10.00	6	↓	↓	↓	↓		
Analyst/Date	AR 08/27/10 →				CJZ 8/28/10	SE	8/30/10 →			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F	50µL	12/09/14	AR	WO 8/27/10
Spike	6	50µL	2/18/11	AR	WO 8/27/10
Extraction Time: 10'.18	Balance ID: 21754520		Derivitized by:		Diazald ID:

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Use neutral sulfate to dry samples.

3. Acidify all with ¼ pipet conc. Sulfuric Acid. 4. Add surr/spike. 5. Leave in DCM overnight. 6. Extract 3X DCM.

7. Pour directly into KD (NO Glasswool). 8. KD to 5mL at 80°. 9. Exchange (2 X with 20mL) Hexane at 100°.

10. *Note: if filtering is necessary: Pre-rinse filter with 0.05% HCL in Acetone+Post Rinse with Hexane or centrifuge.

11. Turbo Vap to 1mL 11. Vial using a pipet into Herb Tubes with a Hexane rinse. 12. GC Analyst to Derivitize.

A. Need Total Solids Y (N) B. ~~Archive~~ Freeze Y / N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG78(RX)/RG94(RX) Client ID: Floyd/Snider

Parameter: PCP Client Project: Lora Lake RF

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ **No Anomalies (standard soil/sediment)**	
☐ **Wet sediment/sludge=**	
☐ **Standing Water Decanted=**	
☐ **Standing Water Homogenized (Shared samples)=**	
☐ **Clay (Difficult to homogenize/Mixed with Kitchen Aid)=**	
☐ **Rocks/Organics=**	
☐ **Oily, obvious fuel/sulfur odors=**	
☐ **Other (Details)=**	
Aqueous:	
☐ **No Anomalies**	
☐ **Turbid/Color=**	
☐ **Particulates=**	
☐ **Emulsions=**	
☐ **Other (Details)=**	
☐ **Other Notes/Comments=**	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

8041 PCP – Water
Separatory Funnel (3510C) (SOP # 3311S)

Preparation Test PCP # 1

ARI Job No(s) RG 94

In-House (0.25ppb)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD **Exchange To Hexane (X 2)**	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Derivitize	Comments
	RG94 MB	Date 8-5-10	500mL			50mL	1-2mL		
	SB	↓	↓			↓	↓		
	SB Dup.	↓	↓			↓	↓		
9	K	verified	500ml			↓	↓		
Analyst/Date:		PD 8-5-10		PD 8/8/10	SP	8/9/10	→		

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F 1683-3	**100**µL 12.5	12/9/10	PD	mp 08/05/10
Spike	6 1702-2	**100**µL 12.5/25	2/18/11	PD	mp 08/05/10
Extraction Time: 13:46			**Derivitized by:**		**Diazald ID:**

SPECIAL INSTRUCTIONS: 1. Add surr/spike. 2. Acidify all with 1:1 Sulfuric Acid 3. Extract 3X with 30mL DCM.

4. KD (NO Drying Column) at 80° to 5mL. 5. Exchange (2 X with 20mL) Hexane at 100°. 6. Turbo Vap to 1-2mL

7. Pipet using Hexane into Herb Tubes. 8. GC Analyst to Derivitize. A. Archive Y /(N)

Analytical Resources, Incorporated
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Organic Extractions Laboratory Analyst Notes

ARI Job No.: R6 94

Client ID: Floyd/Snider

Parameter: PCP

Client Project: POS-LLA

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☑ No Anomalies K	PDS-5-10
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

PCP/Chlorophenols Raw Data
Initial Calibration

ARI Job ID: RG94

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: PCP Curve Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 (ECD-1) ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 8/9/2010 Analysis Start: 8/11/2010

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? ~~YES / NO~~ (NA)

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? AR 8/12/10 ~~YES / NO~~ (NA)

CCal Meets RF & %RSD Criteria? (YES) / NO Surrogate Recovery In Control? (YES) / NO

Manual Integrations for ICal? (YES) / NO Manual Integrations for Samples? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO / (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

2nd col : Quadratic-forced : 2,4-Dichlorophenol, 2,4,5-Trichlorophenol, 2,3,4-Trichlorophenol

1st col : Quadratic-forced : 2,4-Dichlorophenol, 2,4,6-TCP, 2,3,6-TCP, 2,3,4,5-Tetrachlorophenol, Pentachlorophenol & 2,4,6-Tribromophenol.

Additional Details on Reverse: Yes / (No)

Analyst: _____ **Date:** 8/12/2010

Reviewer: _____ **Date:** 8/13/10

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	09-AUG-2010 12:23	0809A005.d	1	PCPD	
2	09-AUG-2010 12:43	0809A006.d	1	PCPA	
3	09-AUG-2010 13:03	0809A007.d	1	PCPB	
4	09-AUG-2010 13:23	0809A008.d	1	PCPC	
5	09-AUG-2010 13:43	0809A009.d	1	PCPE	
6	09-AUG-2010 14:03	0809A010.d	1	PCPF	
7	09-AUG-2010 14:23	0809A011.d	1	PCP ICV	

Report Date : 12-Aug-2010 19:59

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Batch File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b
Inst ID: ecd1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A011
INJ.DATE:	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010
INJ.TIME:	12:23	12:43	13:03	13:23	13:43	14:03	14:23

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1	2,4-Dichlorophenol	6.887	6.897	6.893	6.890	6.884	6.884	6.888	6.893	6.823-6.963	6.889	0.005
2	2,4,6-Trichlorophenol	7.261	7.263	7.264	7.263	7.259	7.260	7.262	7.264	7.194-7.334	7.262	0.002
3	2,3,6-Trichlorophenol	7.615	7.622	7.619	7.617	7.611	7.612	7.616	7.619	7.549-7.689	7.616	0.004
4	2,4,5-Trichlorophenol	8.221	8.253	8.242	8.232	8.212	8.209	8.230	8.242	8.172-8.312	8.228	0.016
5	2,3,4-Trichlorophenol	8.770	8.806	8.792	8.780	8.760	8.756	8.781	8.792	8.722-8.862	8.778	0.017
6	2,3,5,6-Tetrachlorophe	8.996	9.013	9.007	9.002	8.990	8.990	9.000	9.007	8.937-9.077	9.000	0.009
$ 7	2,4,6-Tribromophenol (	9.990	10.010	10.002	9.996	9.984	9.983	9.997	10.002	9.932-10.072	9.995	0.010
8	2,3,4,5-Tetrachlorophe	10.397	10.421	10.413	10.406	10.389	10.387	10.405	10.413	10.343-10.483	10.402	0.012
9	Pentachlorophenol	11.212	11.225	11.219	11.215	11.206	11.206	11.215	11.219	11.149-11.289	11.214	0.007

Reviewer 1 AR Date: 8/12/2010
Reviewer 2 _____ Date: _____

RG91-S1956

Report Date : 12-Aug-2010 19:59

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Batch File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b
Inst ID: ecd1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	0809A005	0809A006	0809A007	0809A008	0809A009	0809A010	0809A011
INJ.DATE:	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010	09-AUG-2010
INJ.TIME:	12:23	12:43	13:03	13:23	13:43	14:03	14:23

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1	2,4-Dichlorophenol	7.156	7.166	7.163	7.160	7.153	7.153	7.158	7.166	7.096-7.236	7.158	0.005
2	2,4,6-Trichlorophenol	7.329	7.333	7.333	7.331	7.327	7.328	7.330	7.333	7.263-7.403	7.330	0.002
3	2,3,6-Trichlorophenol	7.858	7.864	7.862	7.860	7.855	7.856	7.859	7.864	7.794-7.934	7.859	0.003
4	2,4,5-Trichlorophenol	8.593	8.615	8.607	8.600	8.586	8.584	8.599	8.615	8.545-8.685	8.598	0.011
5	2,3,5,6-Tetrachlorophe	9.262	9.277	9.270	9.266	9.256	9.257	9.265	9.277	9.207-9.347	9.265	0.007
6	2,3,4-Trichlorophenol	9.359	9.380	9.373	9.365	9.351	9.349	9.365	9.380	9.310-9.450	9.363	0.011
$ 7	2,4,6-Tribromophenol (	10.632	10.646	10.640	10.636	10.626	10.627	10.636	10.646	10.576-10.716	10.635	0.007
8	2,3,4,5-Tetrachlorophe	11.109	11.126	11.119	11.115	11.103	11.103	11.114	11.126	11.056-11.196	11.113	0.009
9	Pentachlorophenol	11.649	11.658	11.654	11.652	11.645	11.646	11.652	11.658	11.588-11.728	11.651	0.005

Reviewer 1 AR Date: 8/12/2010

Reviewer 2 _____ Date: _____

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-1.b

ARI Job No.: PCPD Method: FPCP.m Instrument: ecd1.i Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1303	0809A007.d	PCPB		1	2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/ical-2.b

ARI Job No.: PCPD Method: FPCPB.m Instrument: ecd1.i Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	0809A005.d	PCPD		1	NO MANUAL INTEGRATION
1243	0809A006.d	PCPA		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1303	0809A007.d	PCPB		1	2,4,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol,
1323	0809A008.d	PCPC		1	NO MANUAL INTEGRATION
1343	0809A009.d	PCPE		1	NO MANUAL INTEGRATION
1403	0809A010.d	PCPF		1	NO MANUAL INTEGRATION
1423	0809A011.d	PCP ICV		1	2,3,4-Trichlorophenol,

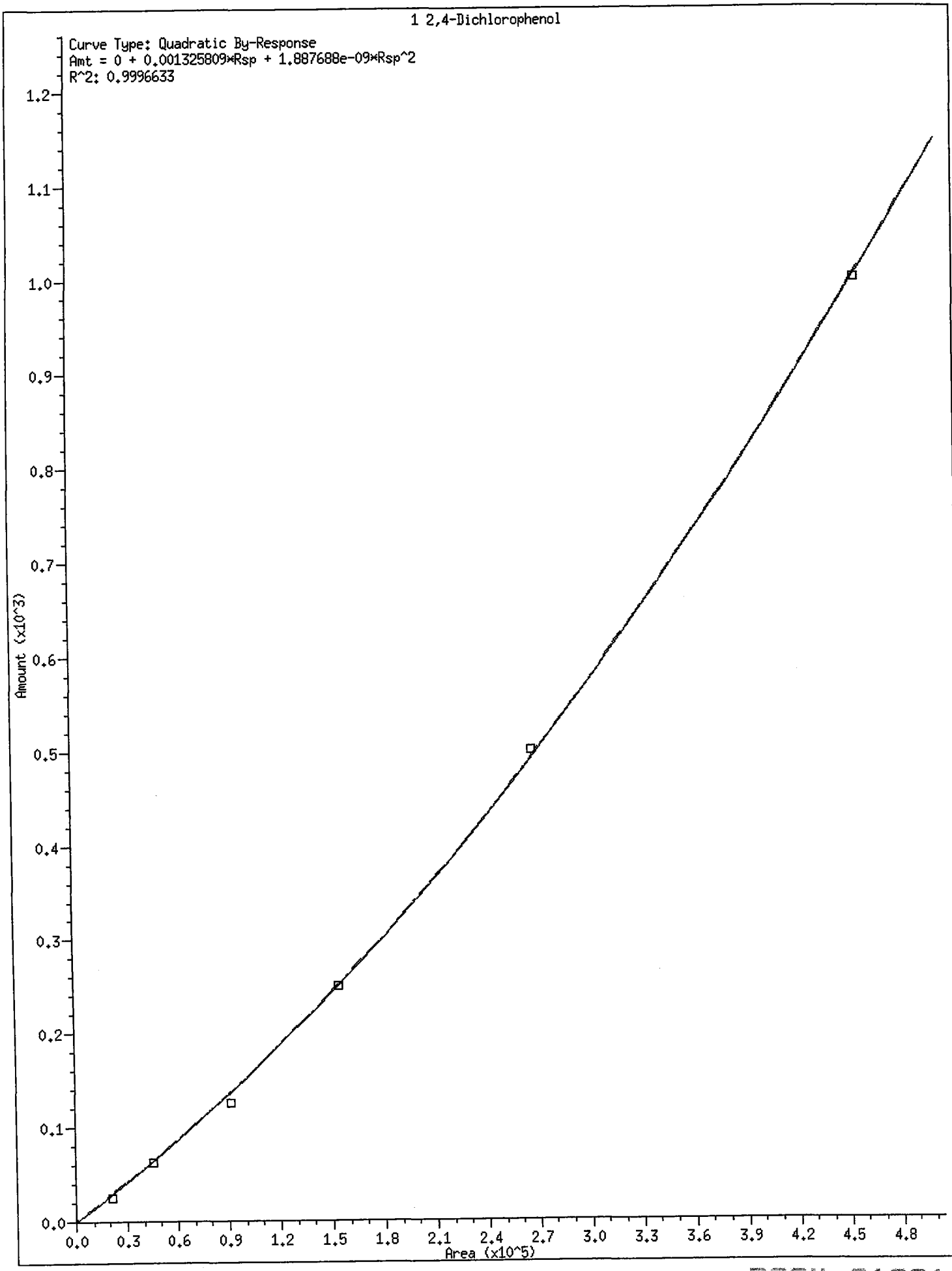
Analytical Resources, Inc.

INITIAL CALIBRATION DATA AR 8/12/2010

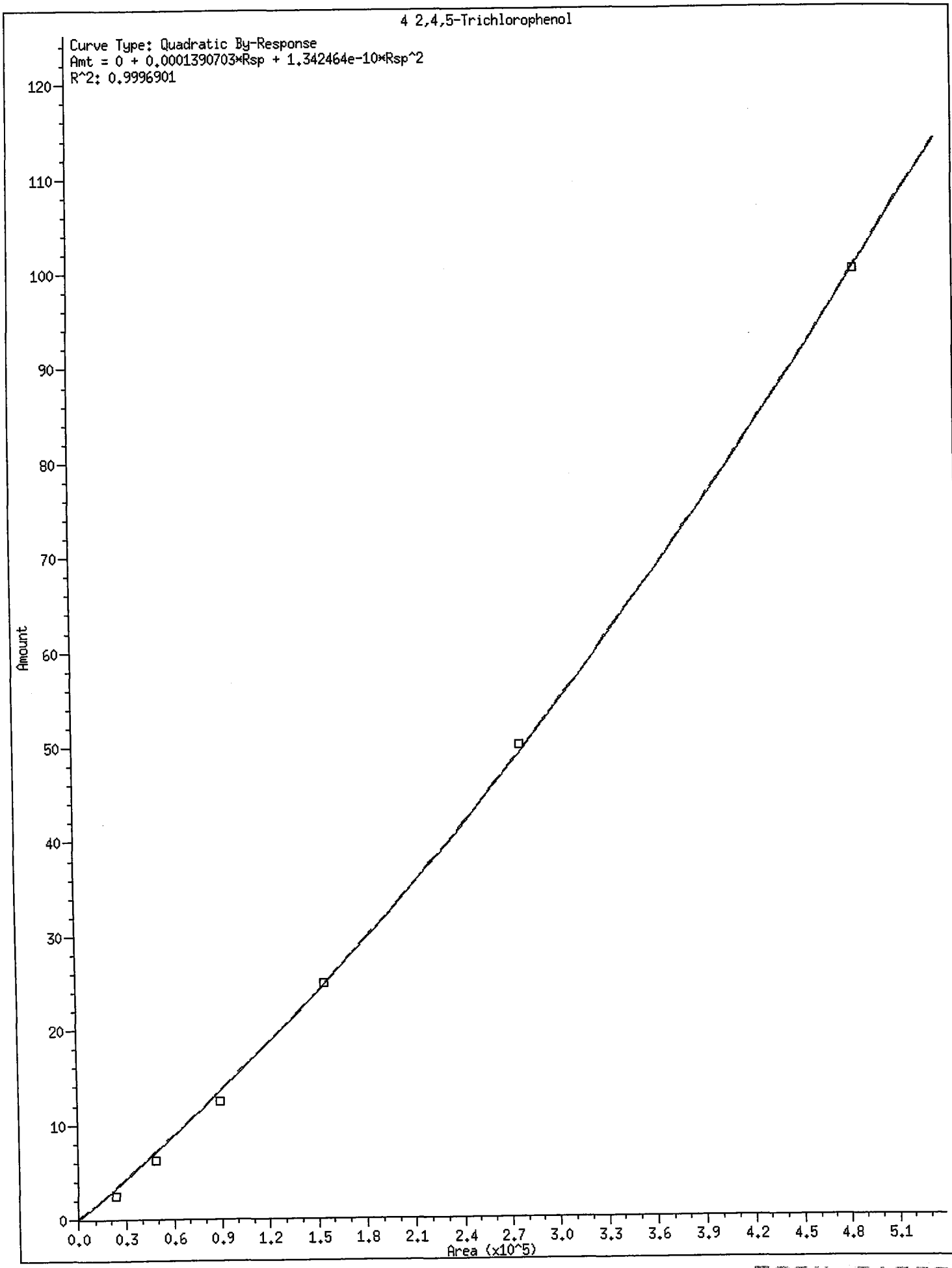
Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

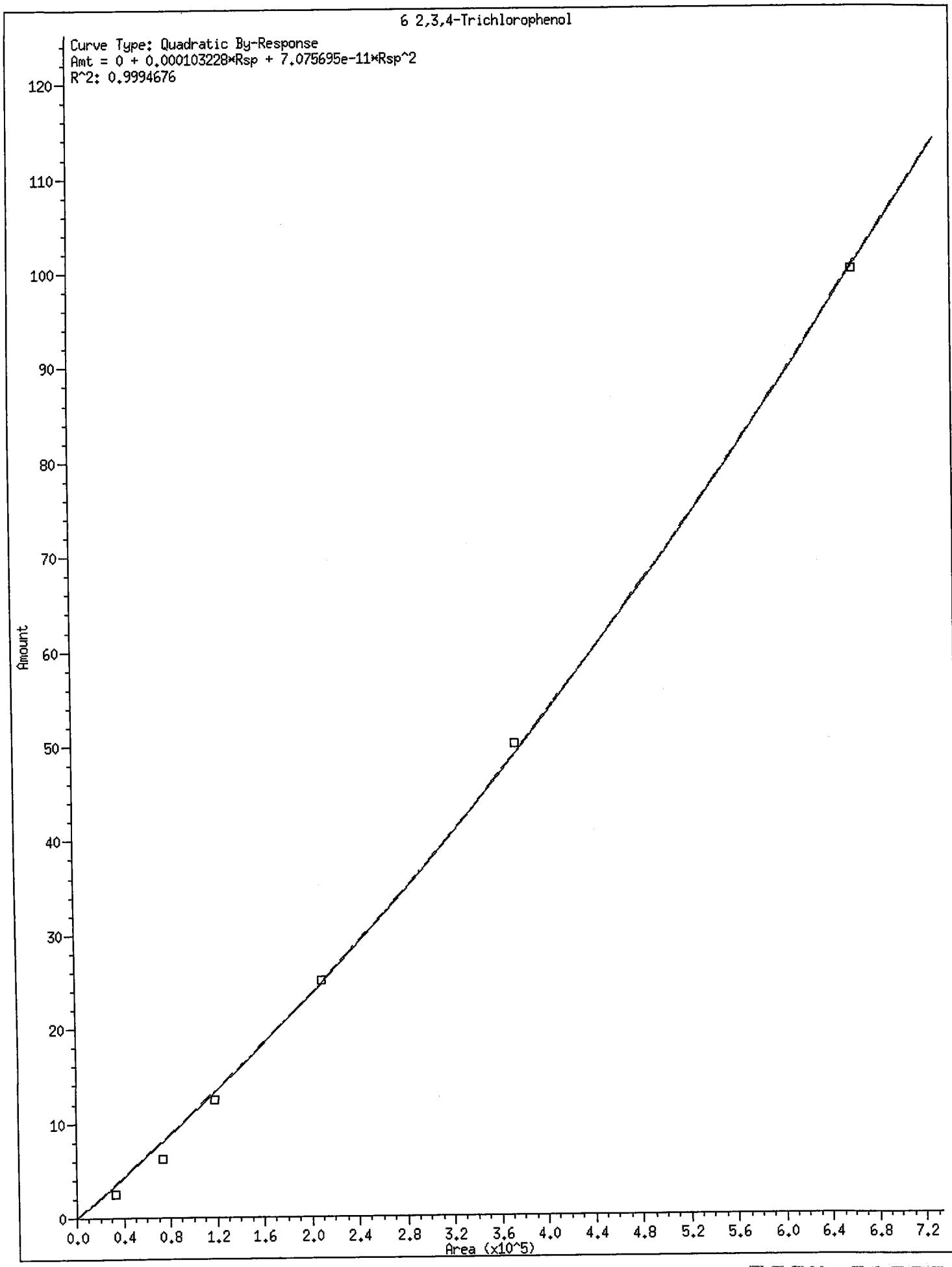
Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
1 2,4-Dichlorophenol	859	720	733	619	536	458	654	22.290	<-
2 2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	12485	13.991	
3 2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	12409	14.584	
4 2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	6832	24.049	<-
5 2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	18515	14.186	
6 2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	9482	26.352	<-
8 2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	14591	17.013	
9 Pentachlorophenol	28790	24995	23903	21206	20507	18368	22961	16.202	
$ 7 2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	18667	12.211	


1 2,4-Dichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.001325809*Rsp + 1.887688e-09*Rsp^2
R^2: 0.9996633
Amount (x10^3)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8
Area (x10^5)

RG94 : 01061


4 2,4,5-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001390703*Rsp + 1.342464e-10*Rsp^2
R^2: 0.9996901
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1

RG94 : 01062


6 2,3,4-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.000103228*Rsp + 7.075695e-11*Rsp^2
R^2: 0.9994676
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2

RG94 : 01063

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

Compound	2 Level 1	6 Level 2	12 Level 3	25 Level 4	50 Level 5	100 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 2,4-Dichlorophenol	21466	45023	91643	154741	267768	457854	QUAD	0.000e+00	0.00133	1.888e-09	0.99966
2 2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10071	AVRG		12485		13.99132
3 2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	AVRG		12409		14.58387
4 2,4,5-Trichlorophenol	23627	48273	89400	155087	278412	489569	QUAD	0.000e+00	0.00014	1.342e-10	0.99969
5 2,3,5,6-Tetrachlorophenol	22710	20100	18581	17733	16666	15298	AVRG		18515		14.18619
6 2,3,4-Trichlorophenol	32846	73211	117878	210189	376624	666942	QUAD	0.000e+00	0.00010	7.076e-11	0.99947
8 2,3,4,5-Tetrachlorophenol	18414	16106	15136	13550	12798	11541	AVRG		14591		17.01254
9 Pentachlorophenol	28790	24995	23903	21206	20507	18368	AVRG		22961		16.20188
7 2,4,6-Tribromophenol (surr)	22648	19438	18816	17793	17226	16083	AVRG		18667		12.21092

RC9S1 01SC1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCPB.m
Cal Date : 12-Aug-2010 18:59 aron

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

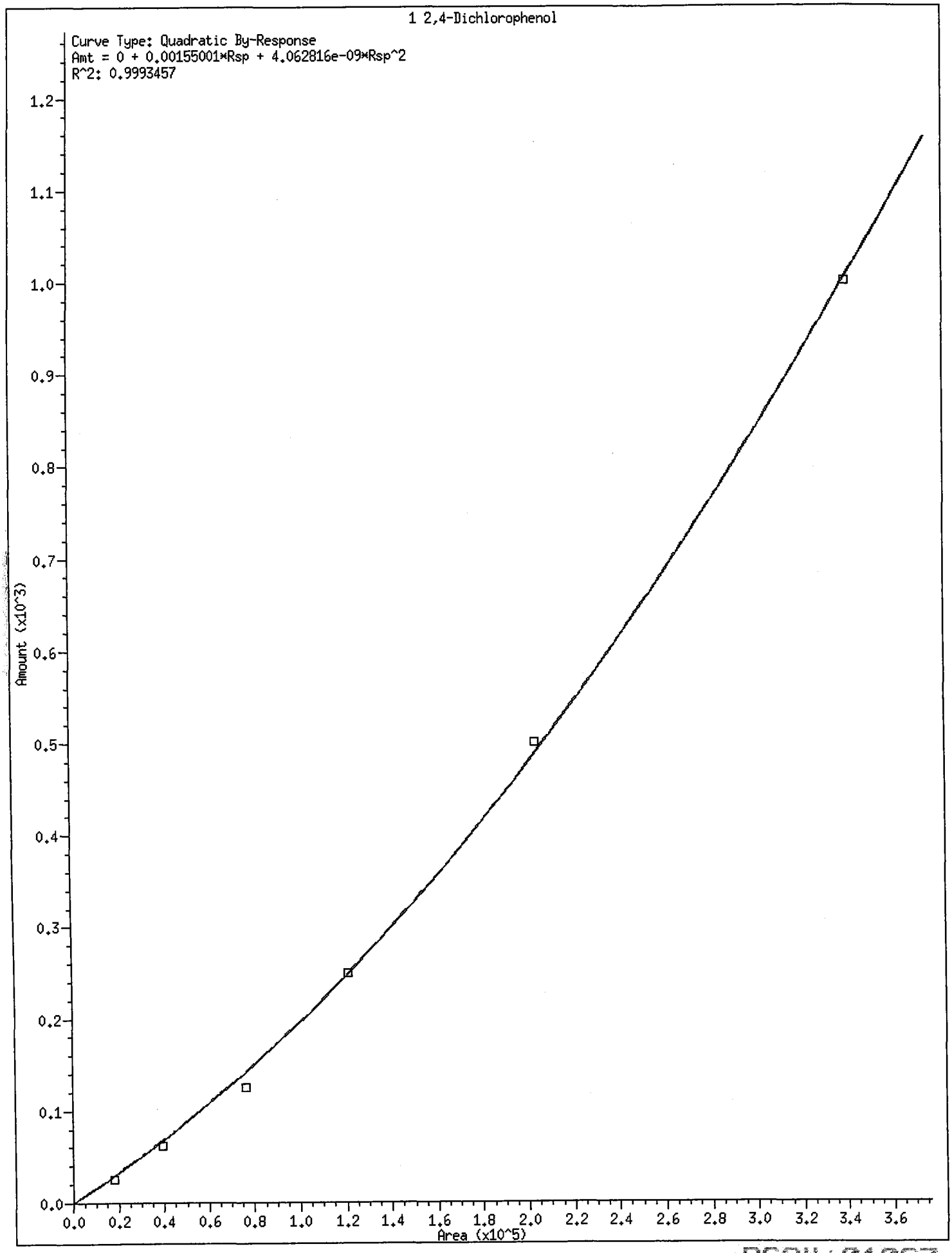
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

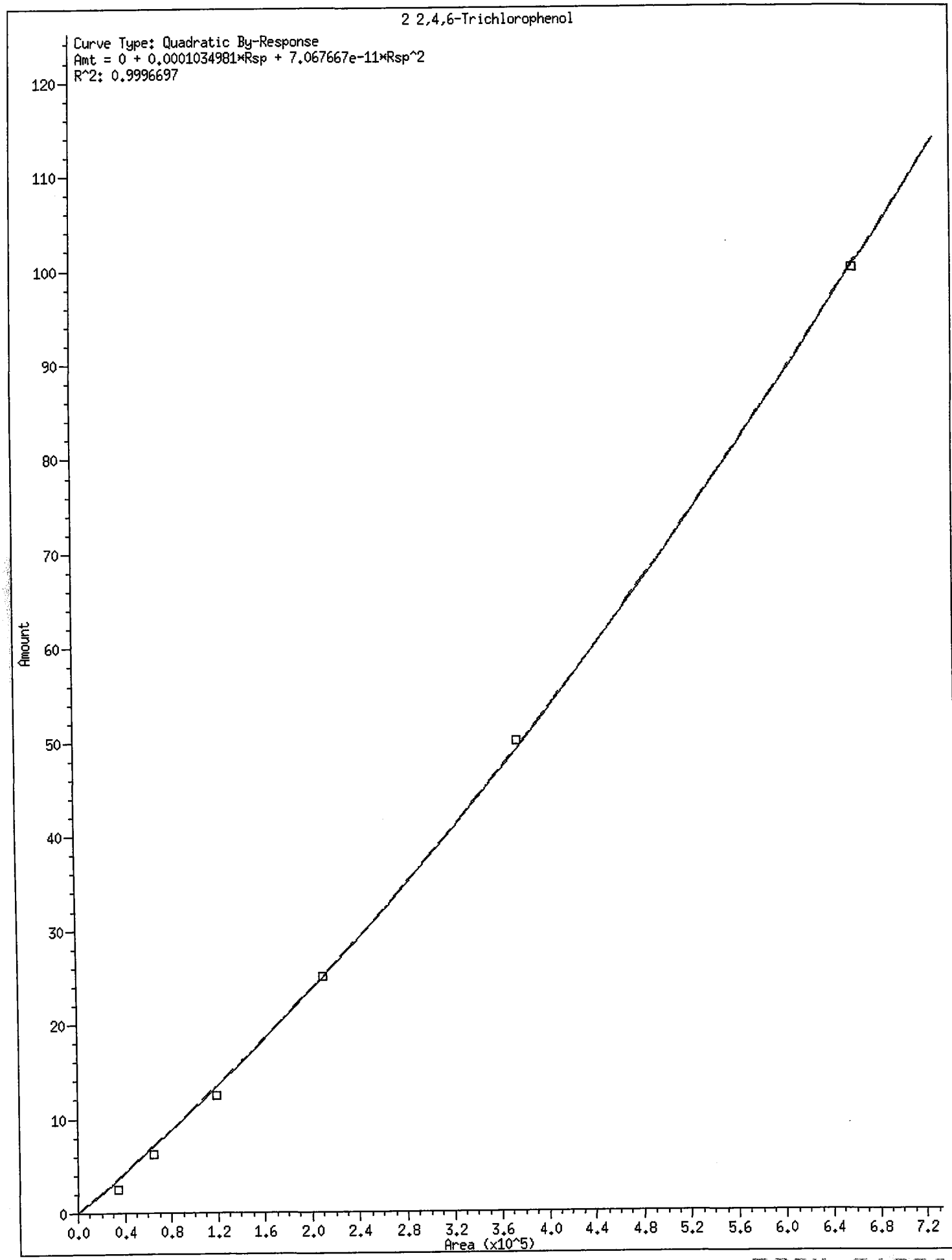
Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

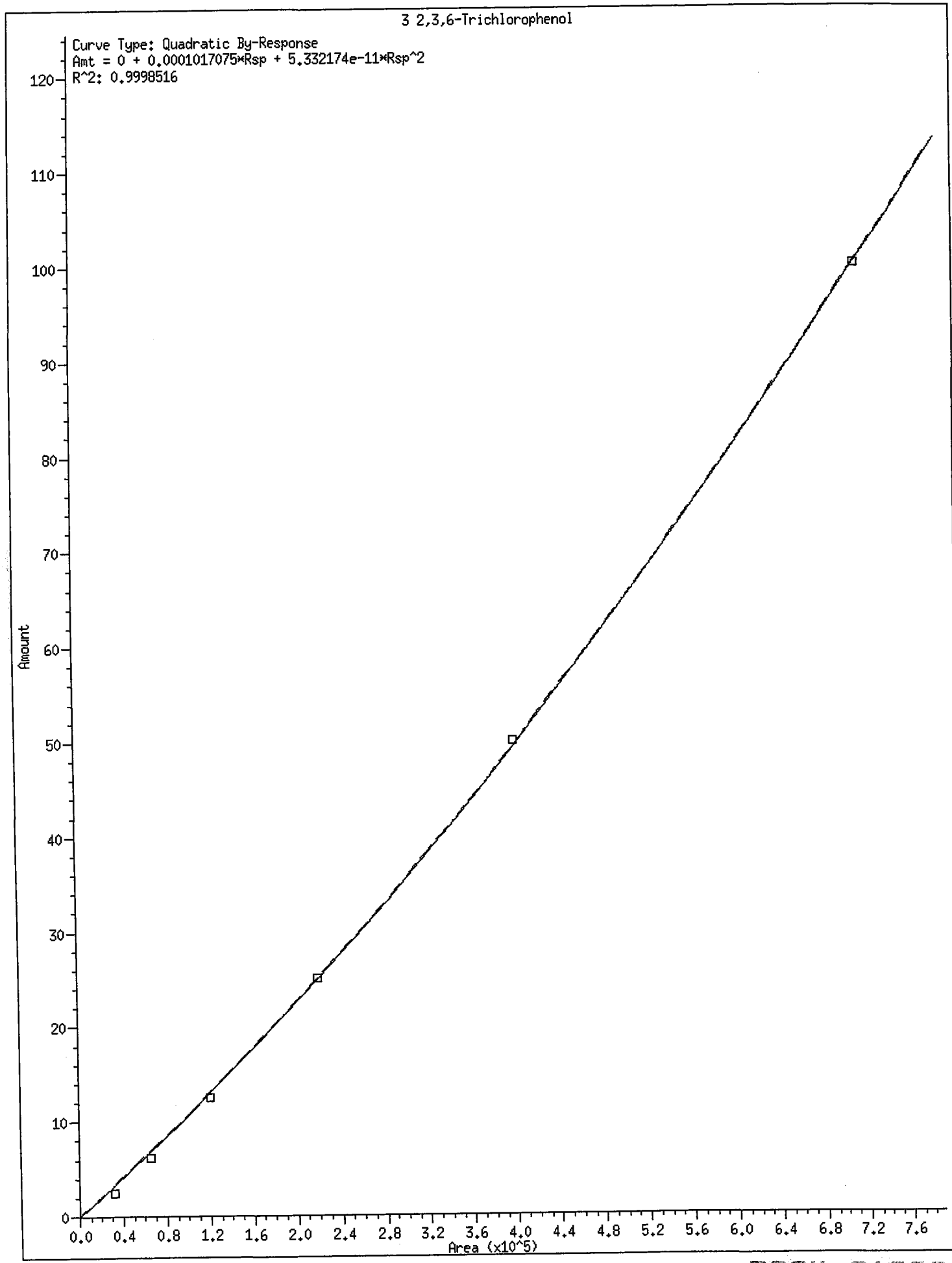
Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
1 2,4-Dichlorophenol	721	627	611	486	409	342	533	27.140	<-
2 2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	9364	26.271	<-
3 2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	9499	21.431	<-
4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	5048	19.727	
5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	6841	19.373	
6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	14106	18.400	
8 2,3,4,5-Tetrachlorophenol	16324	13459	12294	10216	8895	7628	11469	27.892	<-
9 Pentachlorophenol	24528	19824	17830	15337	13686	11965	17195	26.550	<-
$ 7 2,4,6-Tribromophenol (surr)	18561	14999	13969	12135	11200	9940	13467	22.982	<-


1 2,4-Dichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00155001*Rsp + 4.062816e-09*Rsp^2
R^2: 0.9993457
Amount (x10^3)
Area (x10^5)
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
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6

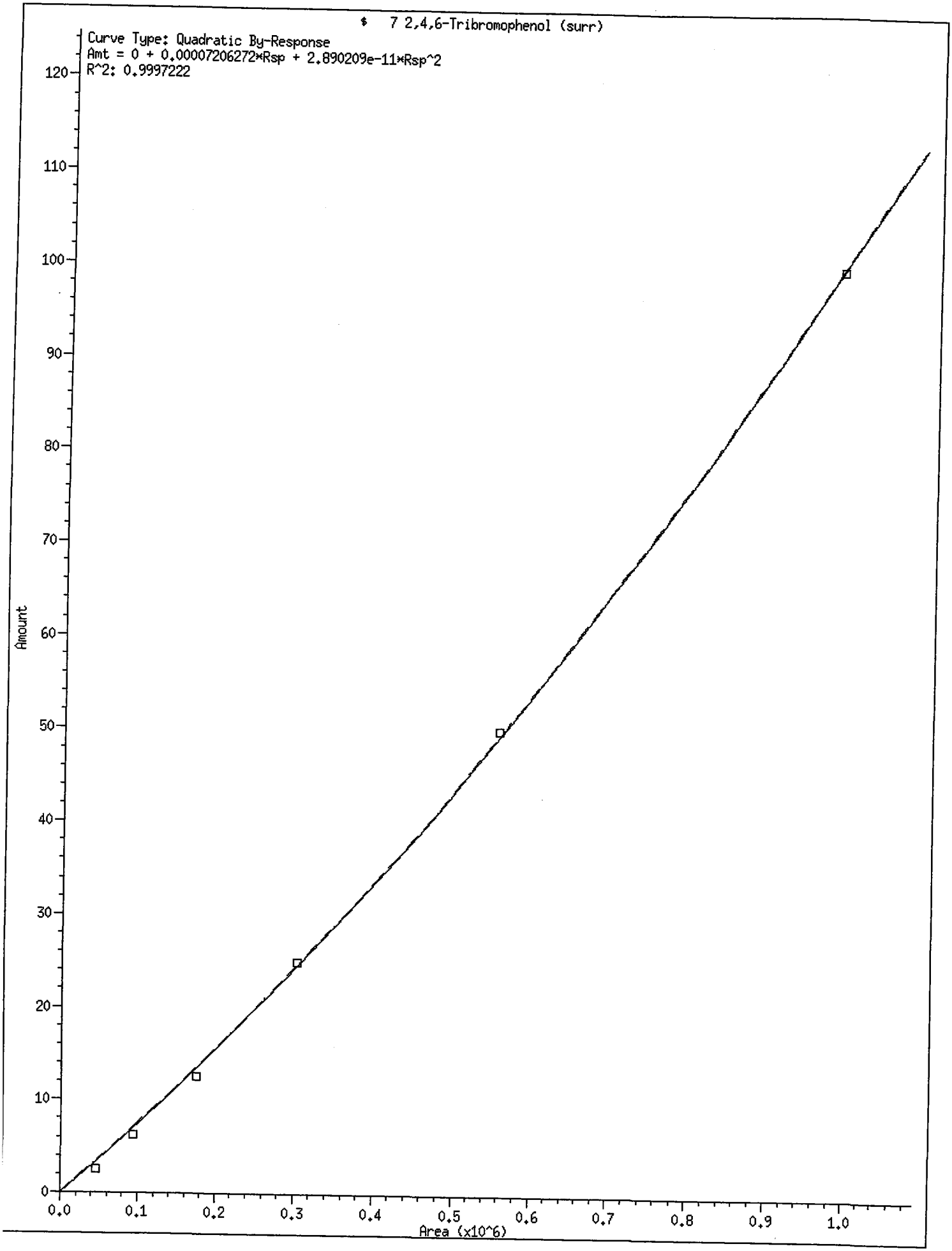
RG94 : 01067

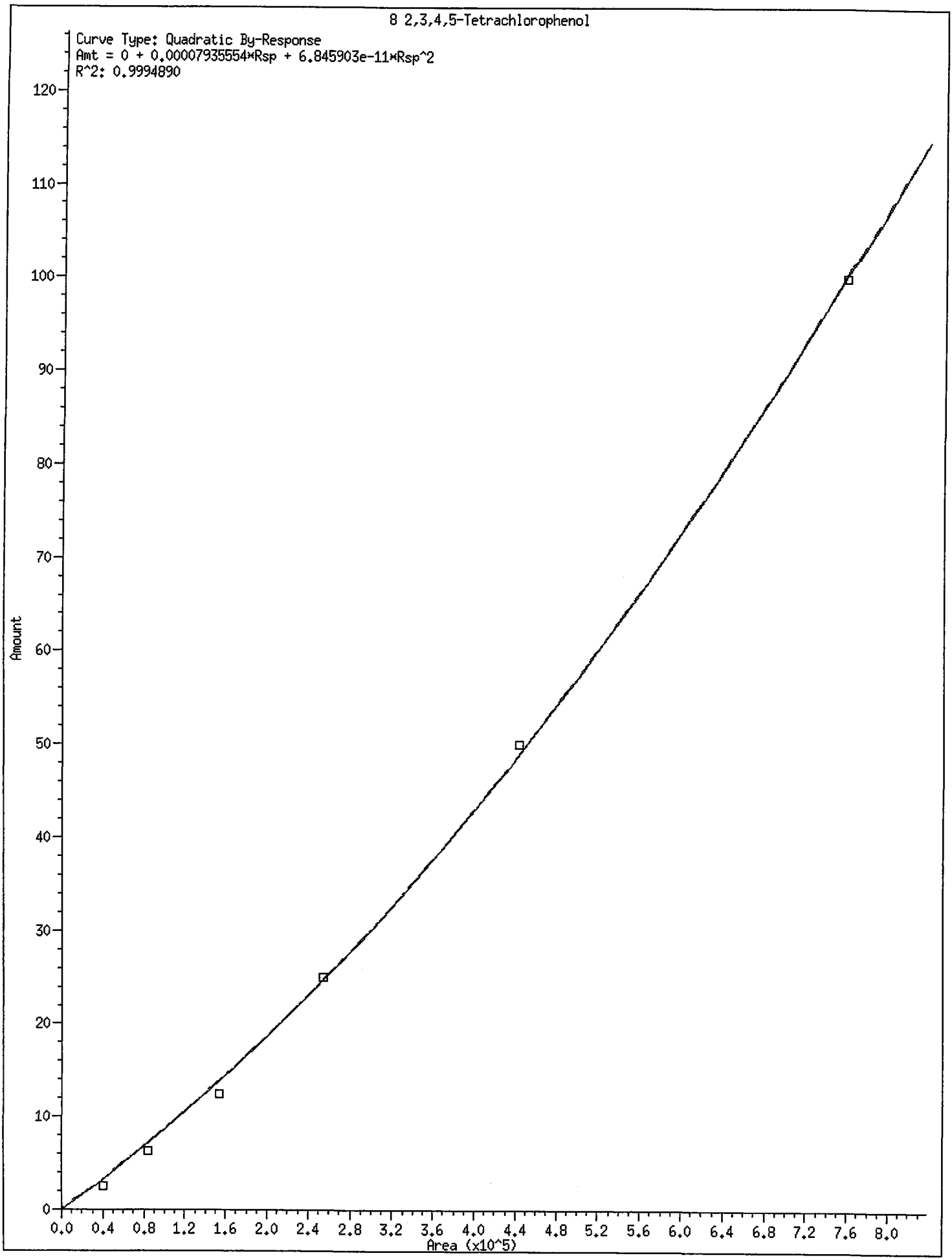

2 2,4,6-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001034981*Rsp + 7.067667e-11*Rsp^2
R^2: 0.9996697
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2

RG94 : 01068

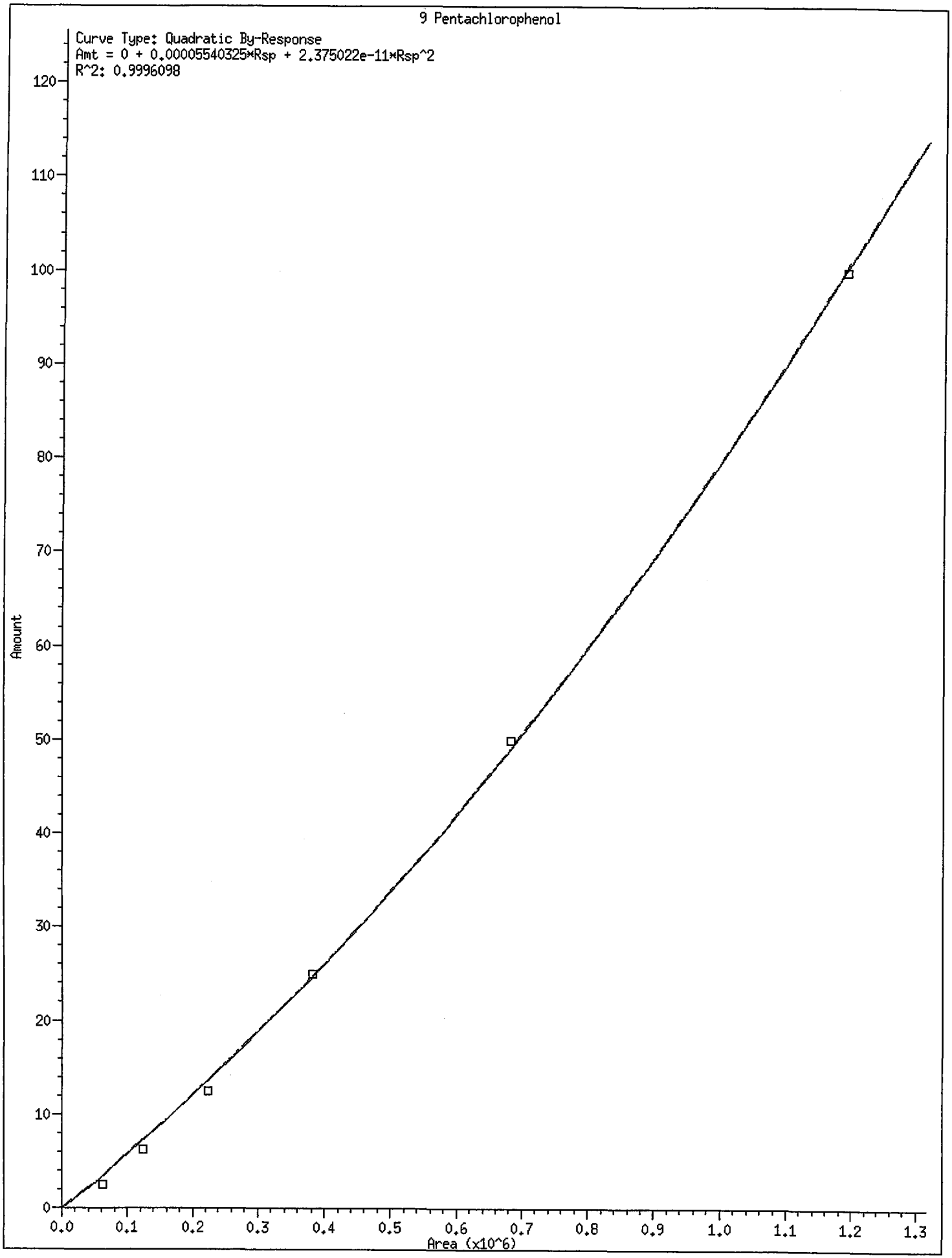

3 2,3,6-Trichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.0001017075*Rsp + 5.332174e-11*Rsp^2
R^2: 0.9998516
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6

RG94 : 01069


$ 7 2,4,6-Tribromophenol (surr)
Curve Type: Quadratic By-Response
Amt = 0 + 0.00007206272*Rsp + 2.890209e-11*Rsp^2
R^2: 0.9997222
Amount
Area (x10^6)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0


8 2,3,4,5-Tetrachlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00007935554*Rsp + 6.845903e-11*Rsp^2
R^2: 0.9994890
Amount
Area (x10^5)
0
10
20
30
40
50
60
70
80
90
100
110
120
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0

RG94:01071


9 Pentachlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.00005540325*Rsp + 2.375022e-11*Rsp^2
R^2: 0.9996098
Amount
Area (x10^6)
0
10
20
30
40
50
60
70
80
90
100
110
120
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

RG94 : 01072

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron

Calibration File Names:
Level 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Level 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Level 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
Level 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
Level 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Level 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

Compound	2 Level 1	6 Level 2	12 Level 3	25 Level 4	50 Level 5	100 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 2,4-Dichlorophenol	18020	39212	76337	121400	204471	341711	QUAD	0.000e+00	0.00155	4.063e-09	0.99935
2 2,4,6-Trichlorophenol	33851	65457	119503	210327	376941	665977	QUAD	0.000e+00	0.00010	7.068e-11	0.99967
3 2,3,6-Trichlorophenol	32256	65624	120087	220036	401238	716085	QUAD	0.000e+00	0.00010	5.332e-11	0.99985
4 2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	AVRG		5048		19.72715
5 2,3,4-Trichlorophenol	8393	7068	7135	7922	5475	5053	AVRG		6841		19.37297
6 2,3,5,6-Tetrachlorophenol	17905	15060	14996	14233	11882	10558	AVRG		14106		18.40050
8 2,3,4,5-Tetrachlorophenol	40811	84118	153678	255392	444734	762767	QUAD	0.000e+00	0.00008	6.846e-11	0.99949
9 Pentachlorophenol	61320	123902	222874	383426	684285	1196534	QUAD	0.000e+00	0.00006	2.375e-11	0.99961
$ 7 2,4,6-Tribromophenol (surr)	46402	93741	174610	303374	559983	994034	QUAD	0.000e+00	0.00007	2.890e-11	0.99972

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 09-AUG-2010 12:23
End Cal Date : 09-AUG-2010 14:03
Quant Method : ESTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Cal Date : 12-Aug-2010 19:13 aron

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

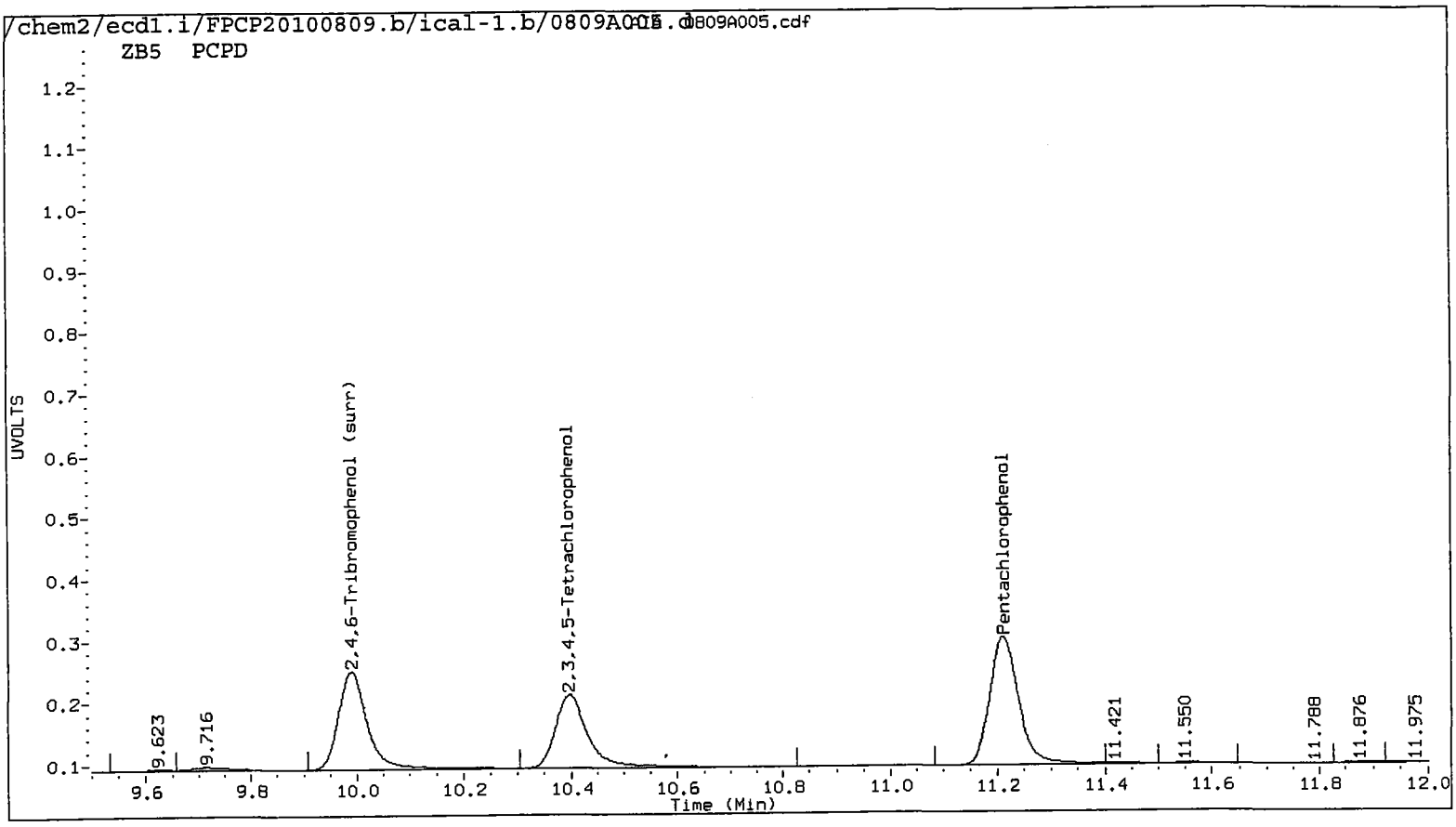
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/12/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d ARI ID: PCPD
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 09-AUG-2010 12:23
Report Date: 08/12/2010 19:15
Matrix: WATER
Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.212	-0.007	383426	11.649	-0.009	530145	24.7347	23.0885	6.9	Pentachlorophenol
7.261	-0.003	210327	7.329	-0.004	306027	24.8950	24.5124	1.5	2,4,6-Trichlorophenol
7.615	-0.004	220036	7.858	-0.006	301362	24.9609	24.2867	2.7	2,3,6-Trichlorophenol
8.221	-0.021	122872	8.593	-0.022	155087	24.3430	24.7969	1.8	2,4,5-Trichlorophenol
8.770	-0.022	198058	9.359	-0.021	210189	28.9512	24.8234	15.4	2,3,4-Trichlorophenol
8.996	-0.011	355822	9.262	-0.015	443336	25.2255	23.9449	5.2	2,3,5,6-Tetrachlorophenol
10.397	-0.016	255392	11.109	-0.017	338740	24.7320	23.2161	6.3	2,3,4,5-Tetrachlorophenol
6.887	-0.006	121400	7.156	-0.010	154741	248.0488	250.3573	0.9	2,4-Dichlorophenol
9.990	-0.012	303374	10.632	-0.014	444822	24.5	23.8	2.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	98.1	95.3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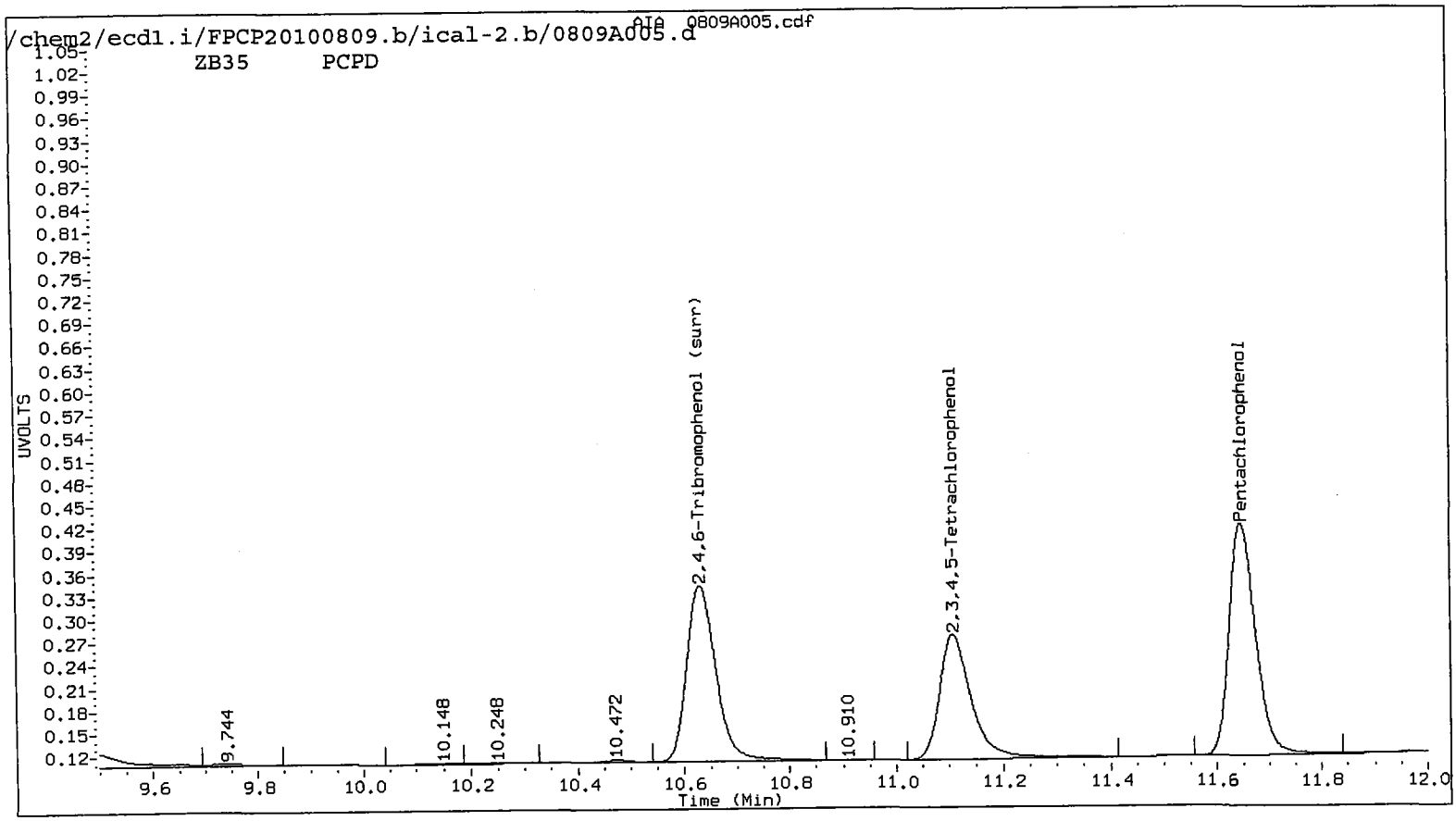
0809A005.cdf
ZB5 PCPD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.623
9.716
11.421
11.550
11.788
11.876
11.975
Time (Min)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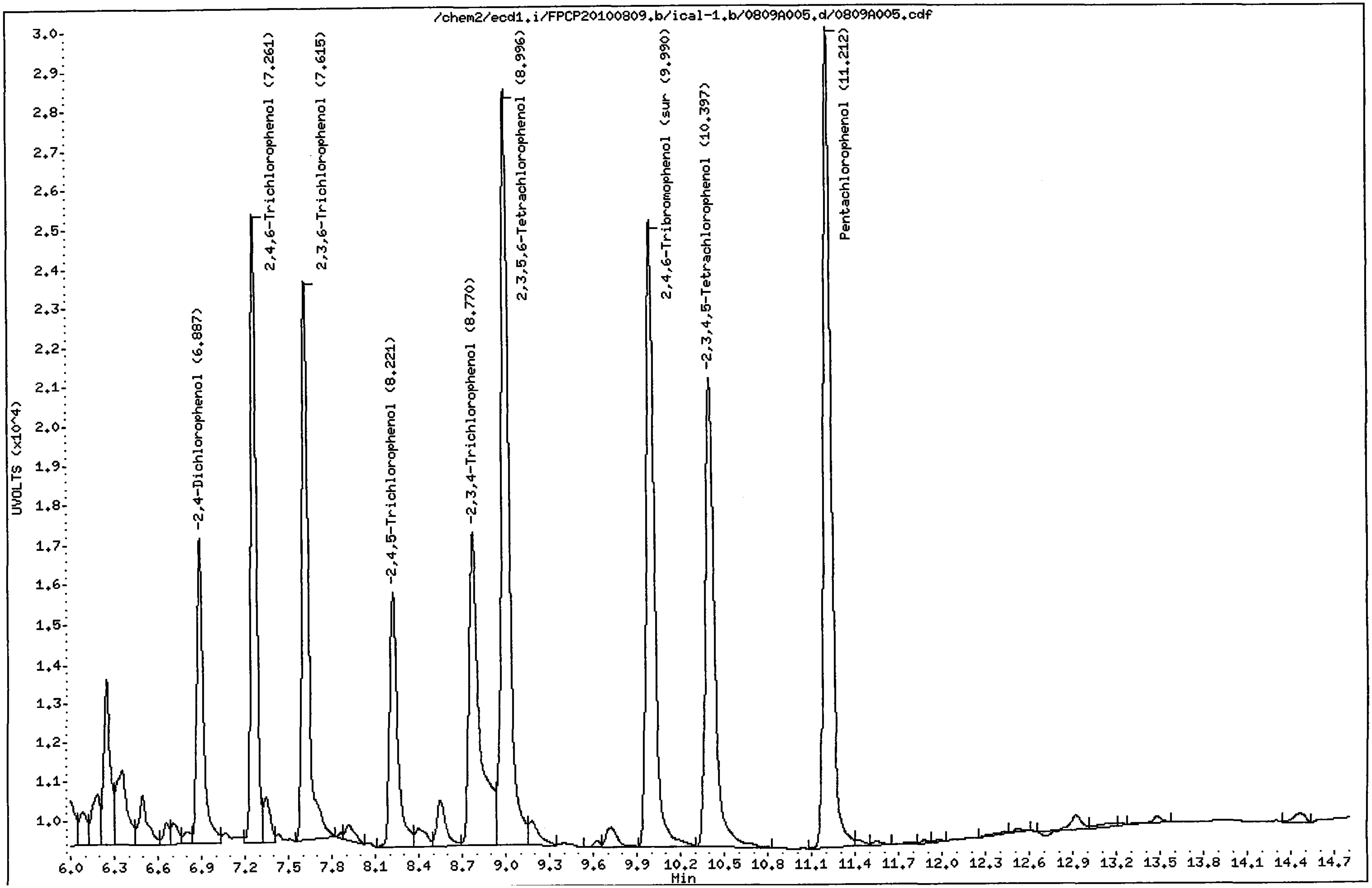
0809A005.cdf
ZB35 PCPD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.744
10.148
10.248
10.472
10.910
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

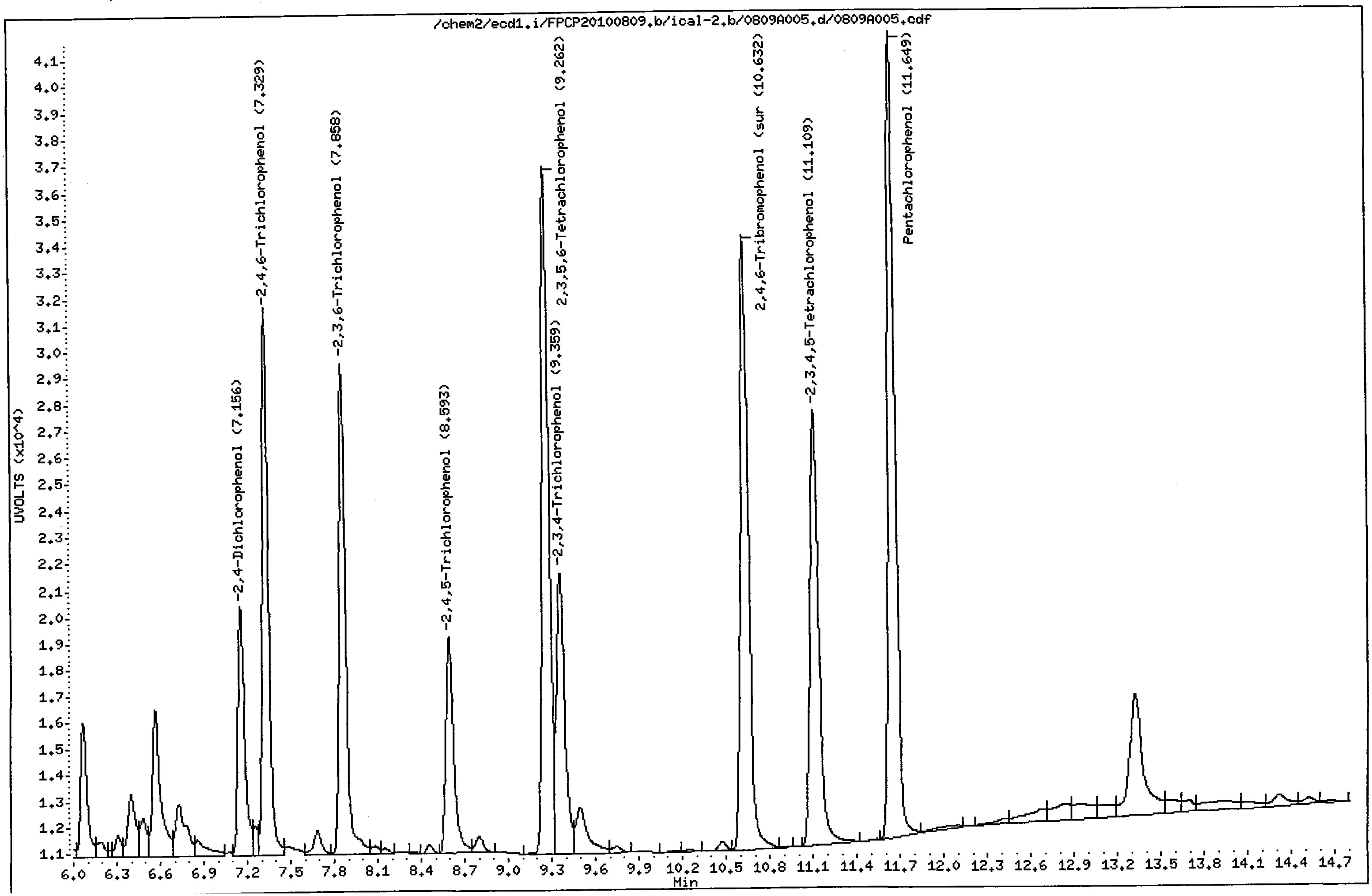
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
Date : 09-AUG-2010 12:23
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



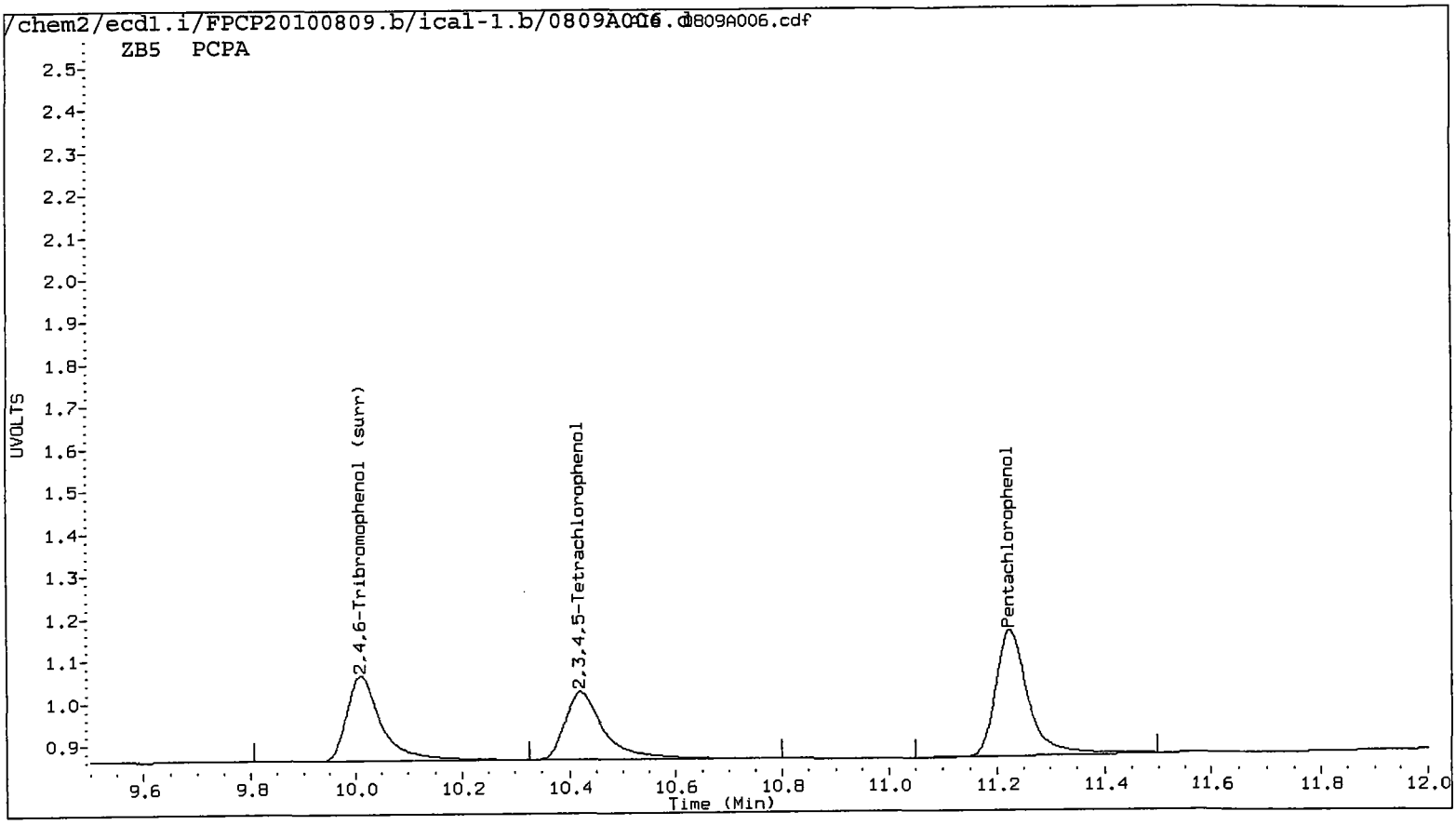
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

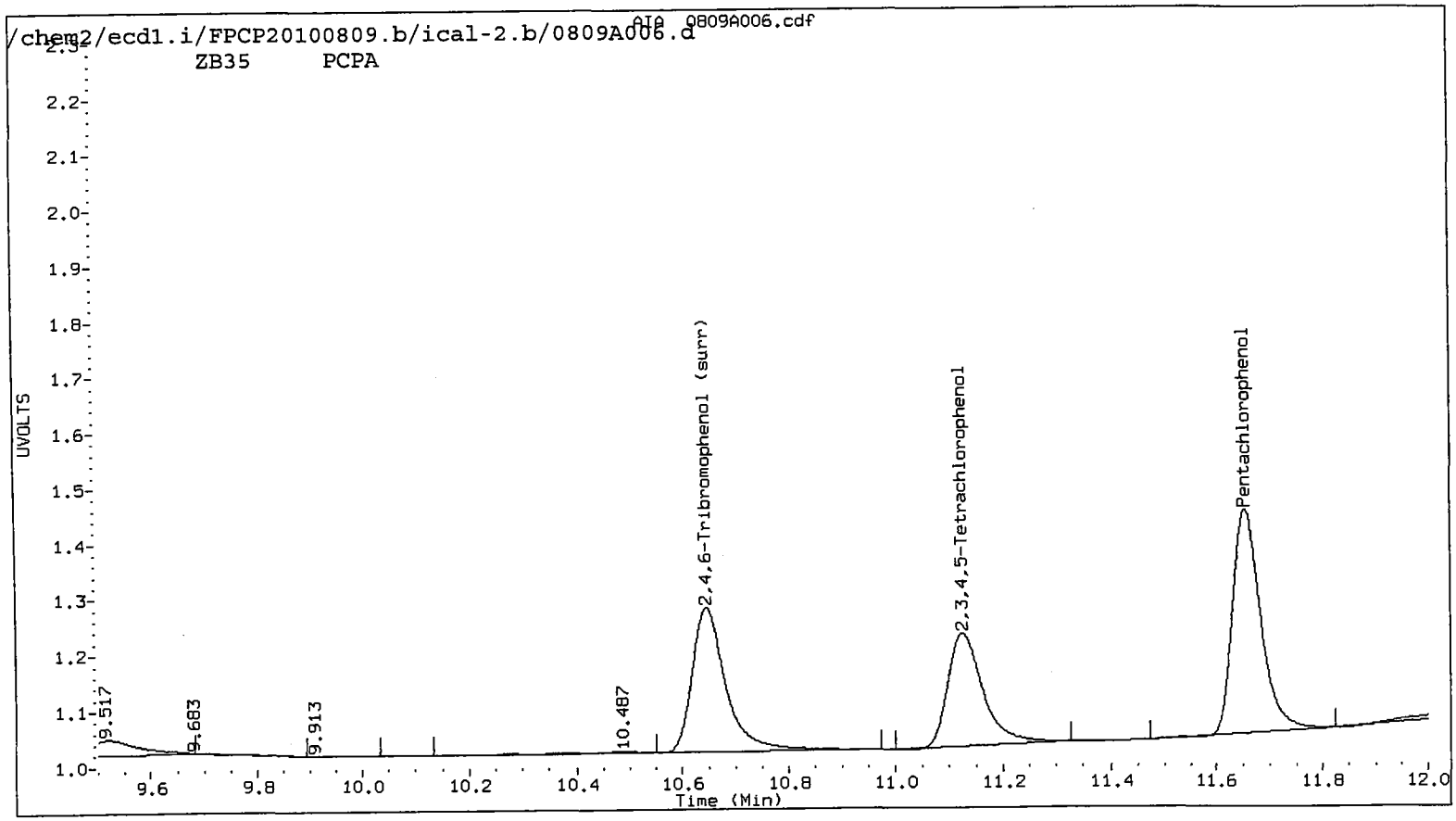
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d ARI ID: PCPA
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 12:43
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.225	0.006	61320	11.658	0.000	71975	3.4866	3.1346	10.6	Pentachlorophenol
7.263	-0.001	33851	7.333	0.000	37028	3.5845	2.9659	18.9	2,4,6-Trichlorophenol
7.622	0.003	32256	7.864	0.000	38395	3.3362	3.0942	7.5	2,3,6-Trichlorophenol
8.253	0.011	16009	8.615	0.000	23627	3.1717	3.3608	5.8	2,4,5-Trichlorophenol
8.806	0.014	20983	9.380	0.000	32846	3.0672	3.4670	12.2	2,3,4-Trichlorophenol
9.013	0.006	44762	9.277	0.000	56775	3.1733	3.0665	3.4	2,3,5,6-Tetrachlorophenol
10.421	0.008	40811	11.126	0.000	46035	3.3526	3.1551	6.1	2,3,4,5-Tetrachlorophenol
6.897	0.004	18020	7.166	0.000	21466	29.2505	29.3296	0.3	2,4-Dichlorophenol
10.010	0.008	46402	10.646	0.000	56619	3.4	3.0	11.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	13.6	12.1

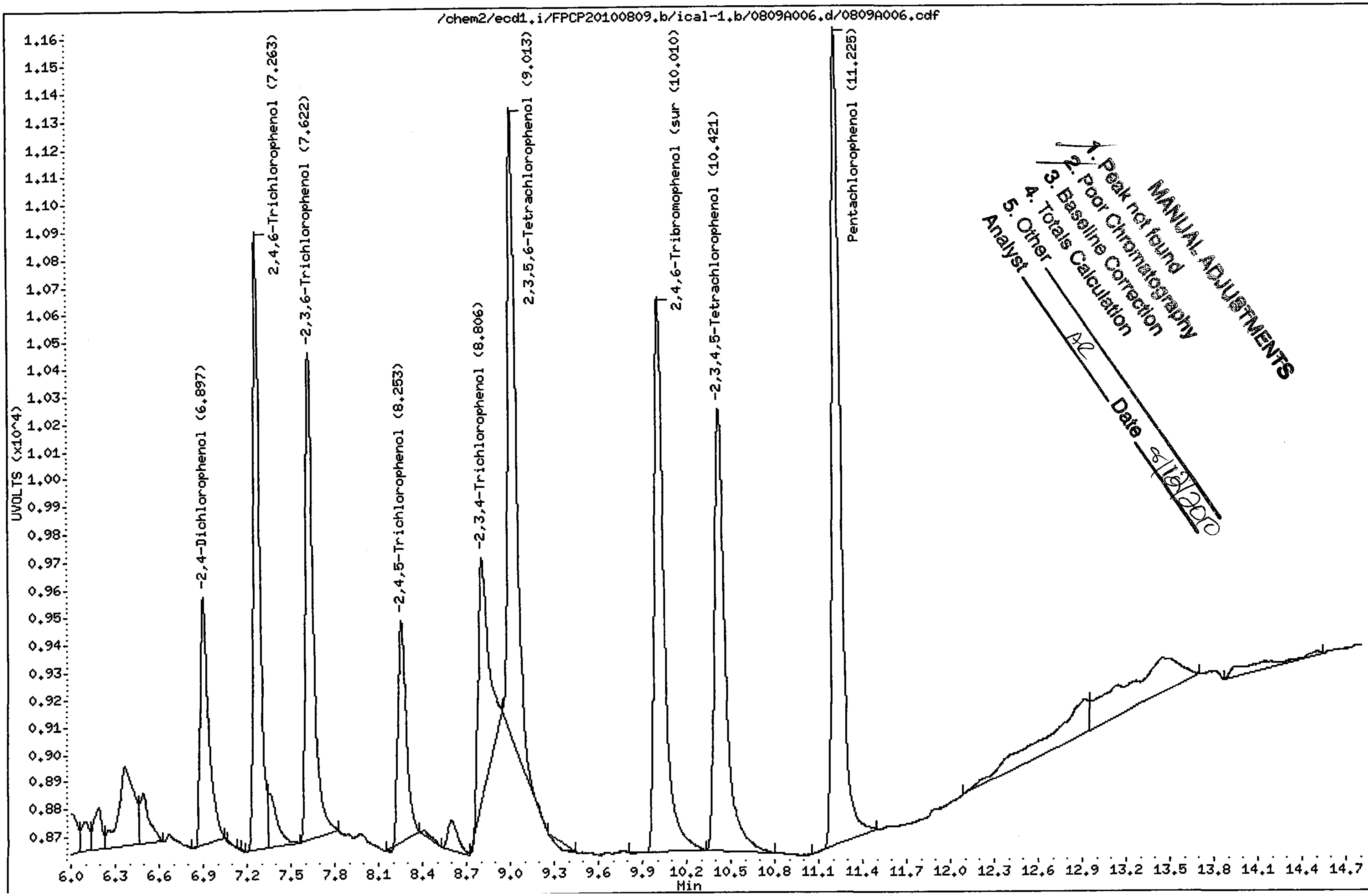

/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d
AIA 0809A006.cdf
ZB5 PCPA
UVOLTS
2.4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d
AIA 0809A006.cdf
ZB35 PCPA
UVOLTS
9.517
9.683
9.913
10.487
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d
Date : 09-AUG-2010 12:43
Client ID:
Sample Info: PCPA
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

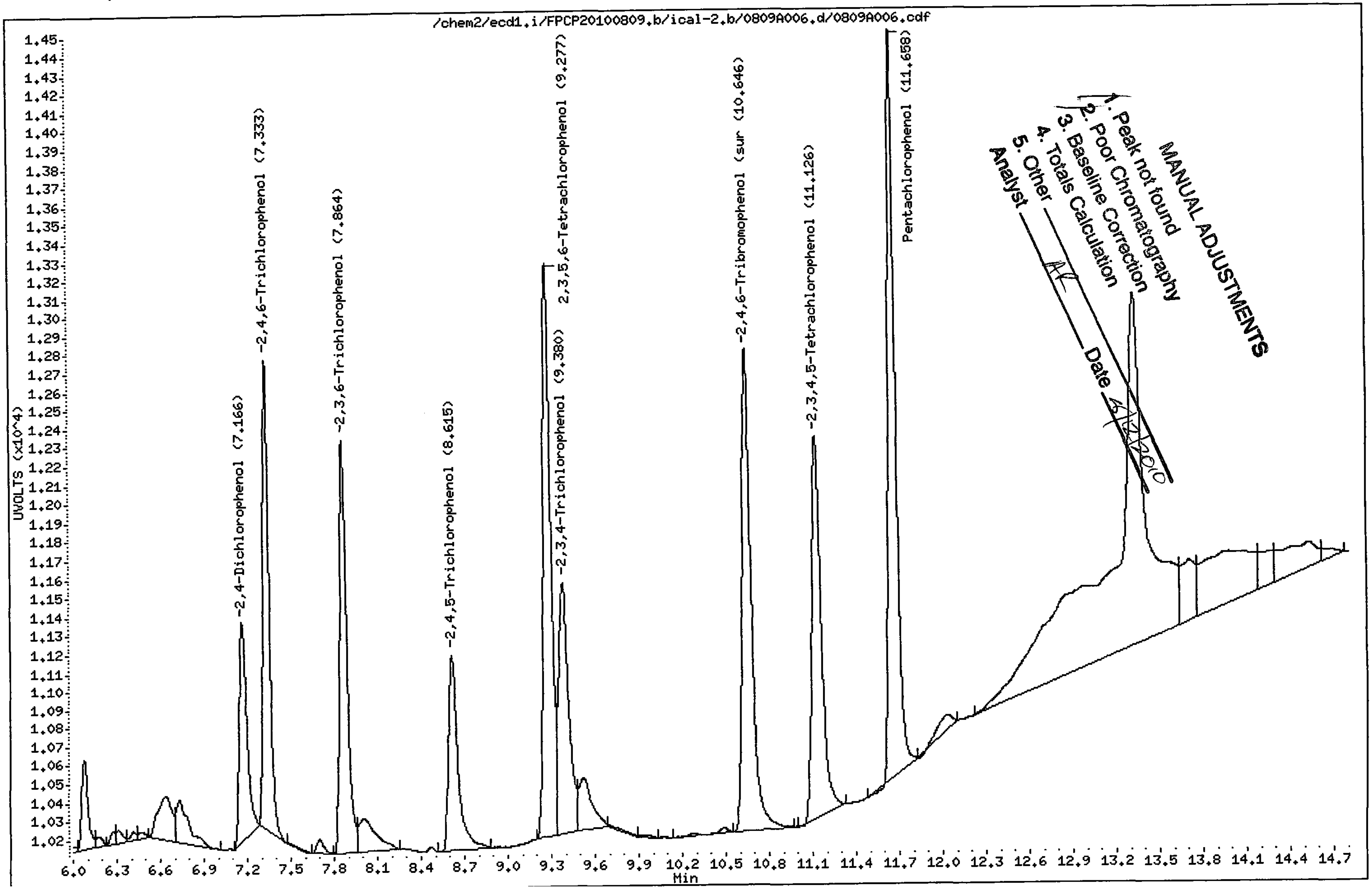


RG94 : 01081

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d
Date : 09-AUG-2010 12:43
Client ID:
Sample Info: PCPA
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

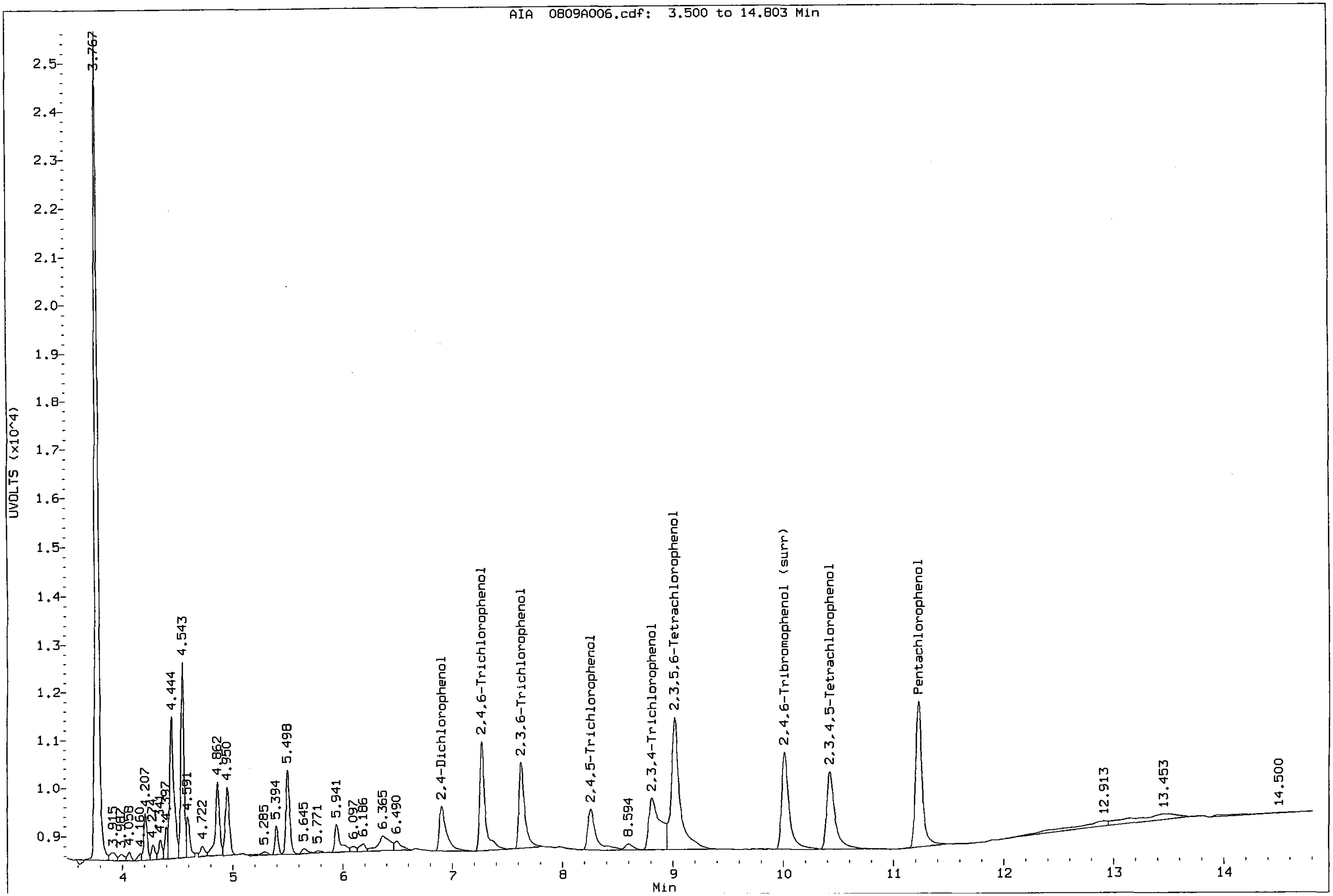
Operator: ar
Column diameter: 0.53



MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other
Analyst AR Date 6/12/2010

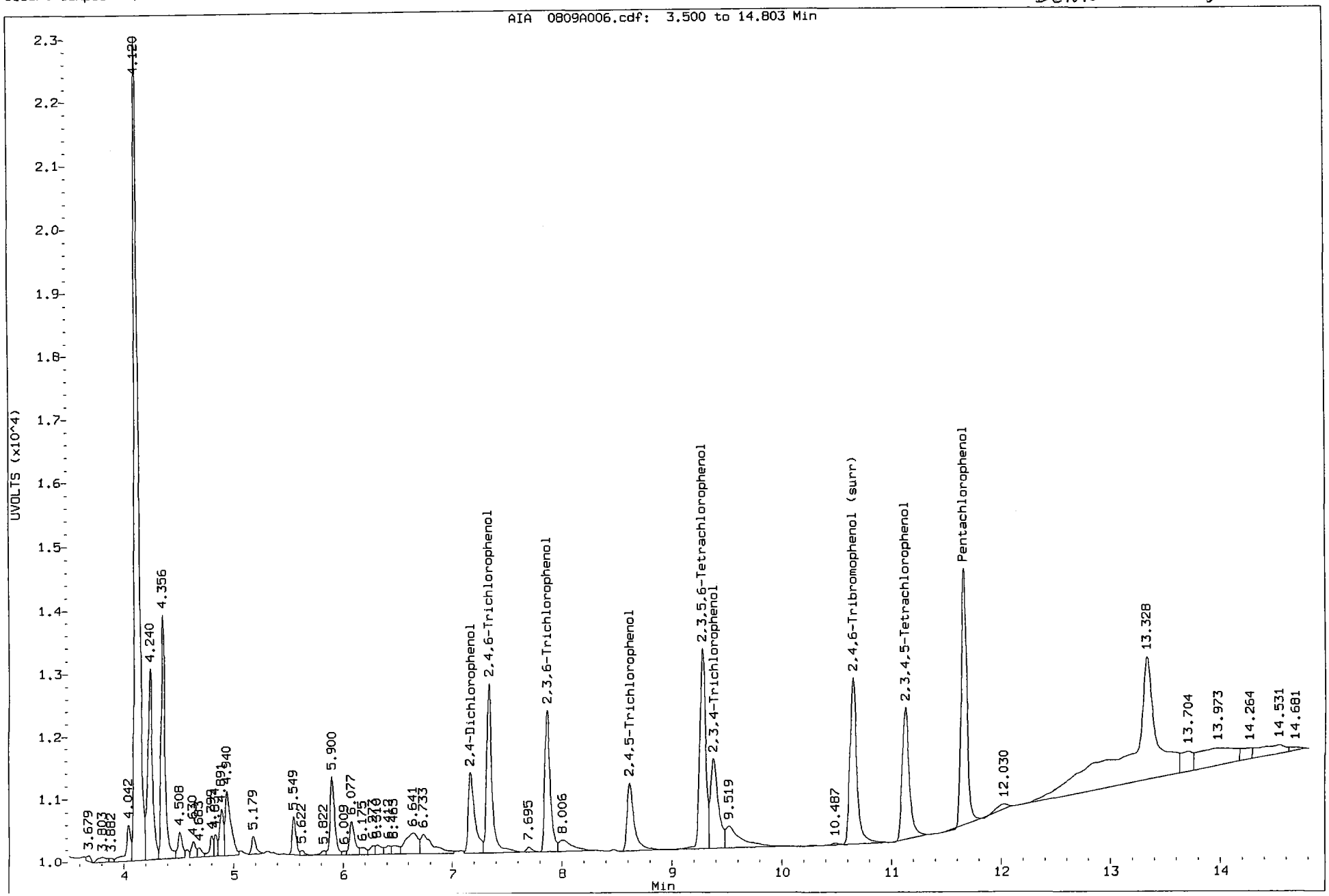
Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
Injection Date: 09-AUG-2010 12:43
Instrument: ecd1.i
Client Sample ID:

Before 08/12/2010



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
Injection Date: 09-AUG-2010 12:43
Instrument: ecd1.i
Client Sample ID:

Before AR 8/19/2010



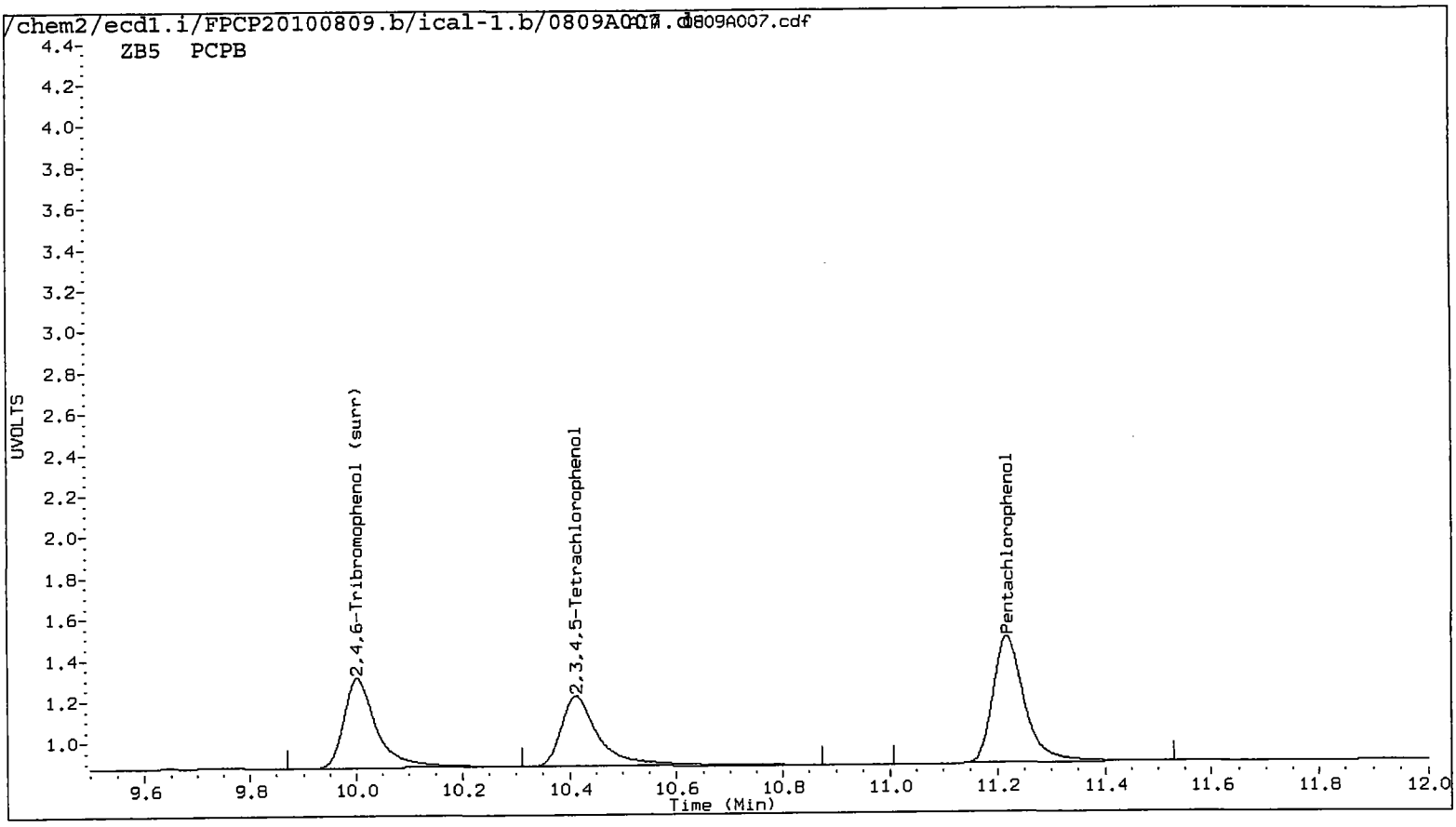
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

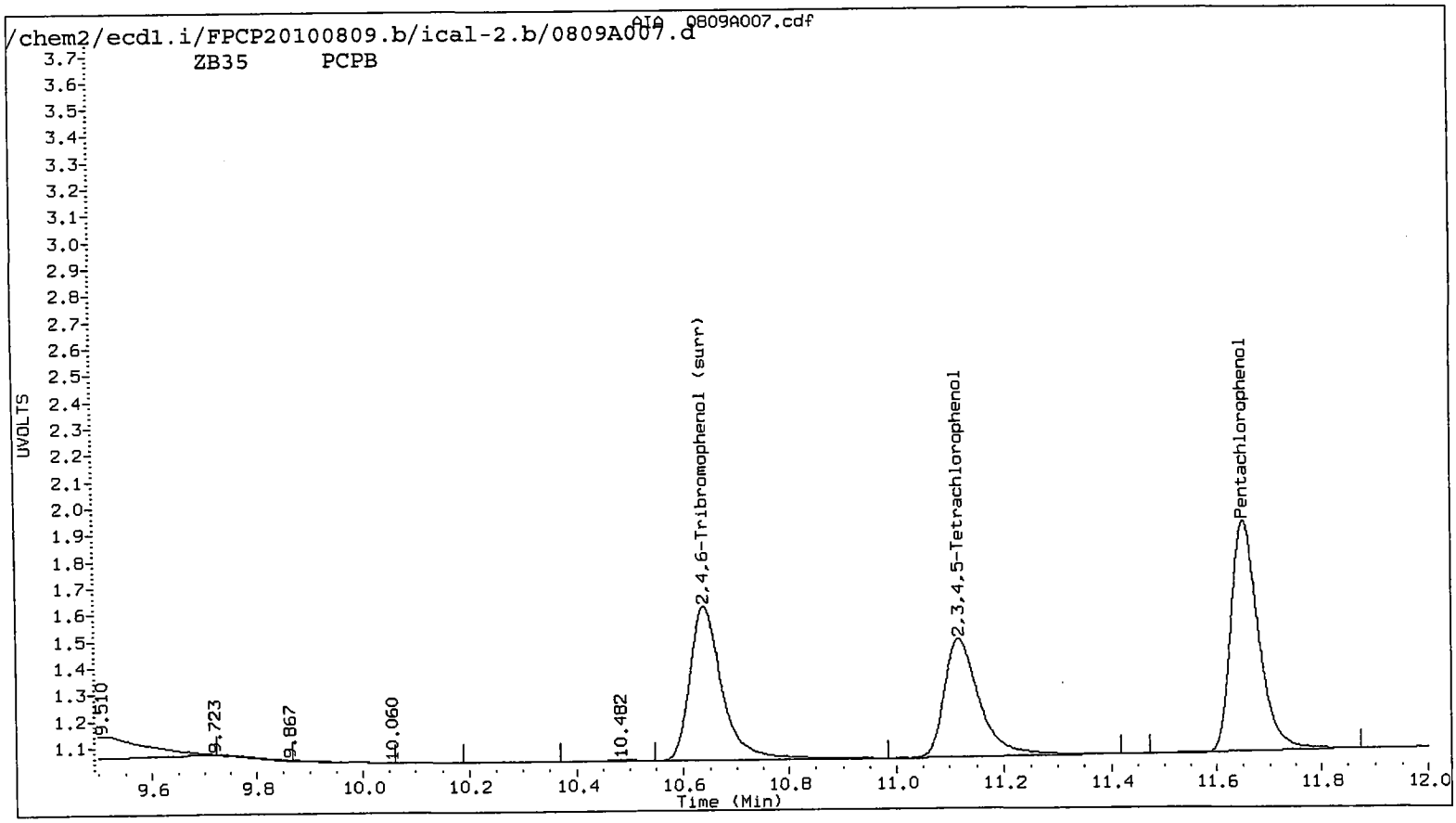
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d ARI ID: PCPB
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:03
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.219	0.000	123902	11.654	-0.004	156217	7.2292	6.8035	6.1	Pentachlorophenol
7.264	0.000	65457	7.333	0.000	78390	7.0775	6.2789	12.0	2,4,6-Trichlorophenol
7.619	0.000	65624	7.862	-0.002	82392	6.9041	6.6399	3.9	2,3,6-Trichlorophenol
8.242	0.000	33512	8.607	-0.008	48273	6.6393	7.0262	5.7	2,4,5-Trichlorophenol
8.792	0.000	44178	9.373	-0.007	73211	6.4577	7.9367	20.5	2,3,4-Trichlorophenol
9.007	0.000	94127	9.270	-0.007	125627	6.6730	6.7852	1.7	2,3,5,6-Tetrachlorophenol
10.413	0.000	84118	11.119	-0.007	100660	7.1596	6.8989	3.7	2,3,4,5-Tetrachlorophenol
6.893	0.000	39212	7.163	-0.003	45023	67.0259	63.5184	5.4	2,4-Dichlorophenol
10.002	0.000	93741	10.640	-0.006	121487	7.0	6.5	7.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	28.0	26.0

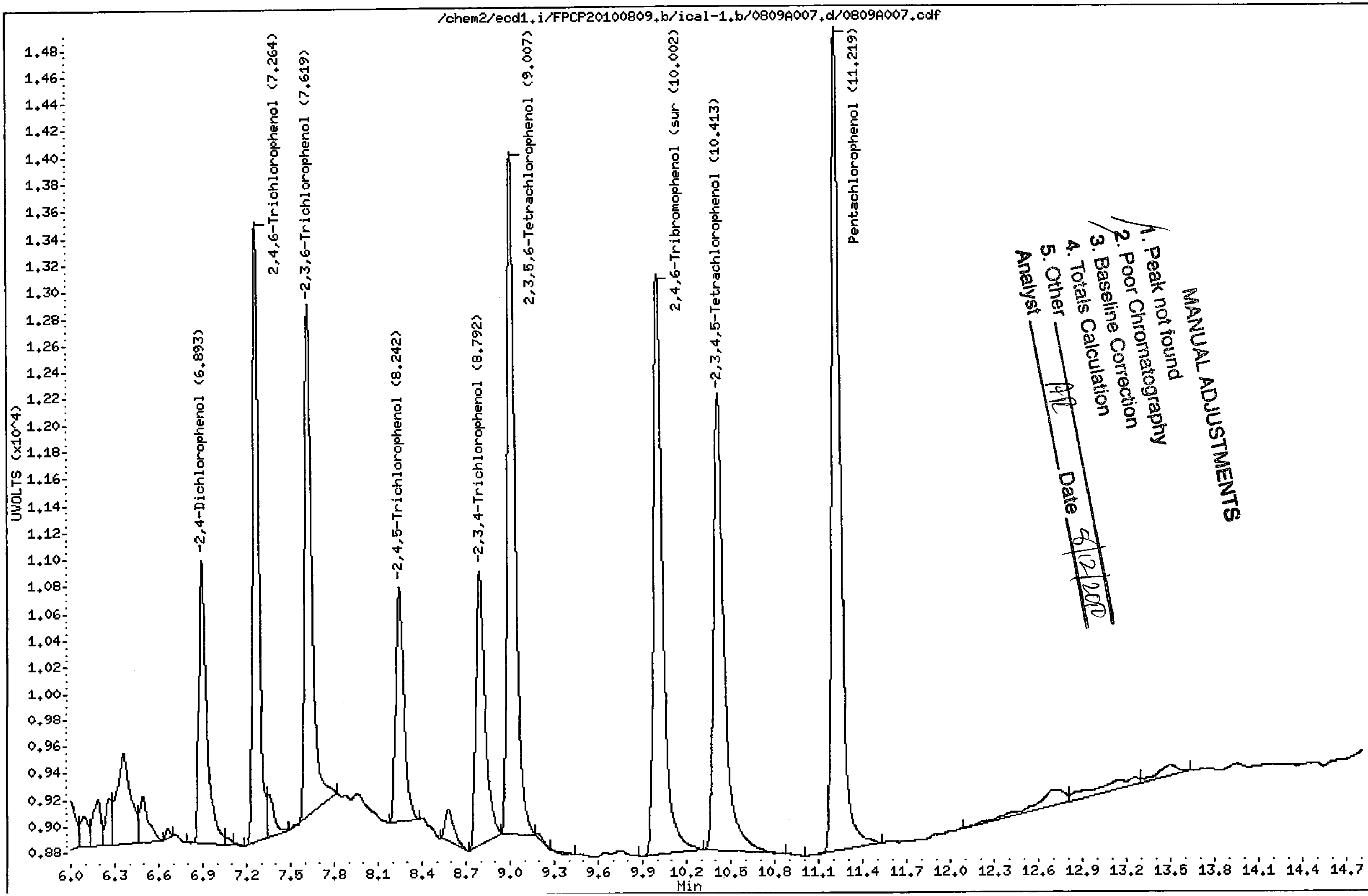

/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d
AIA 0809A007.cdf
ZB5 PCPB
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d
AIA 0809A007.cdf
ZB35 PCPB
UVOLTS
9.510
9.723
9.867
10.060
10.482
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d
Date : 09-AUG-2010 13:03
Client ID:
Sample Info: PCPB
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

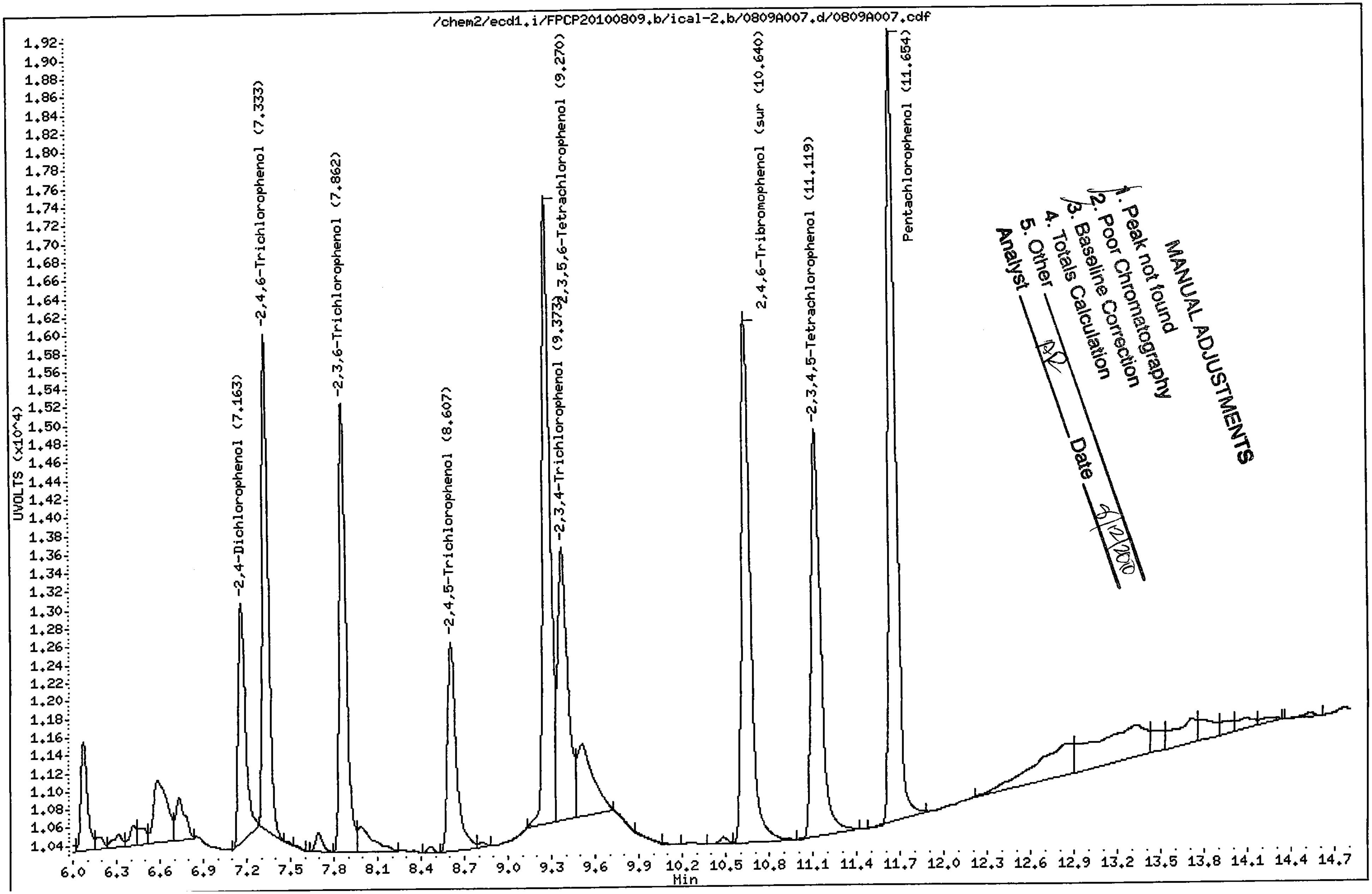


MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other
Analyst AR Date 8/12/2010

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d
Date : 09-AUG-2010 13:03
Client ID:
Sample Info: PCPB
Purge Volume: 2.0
Column phase: ZB35

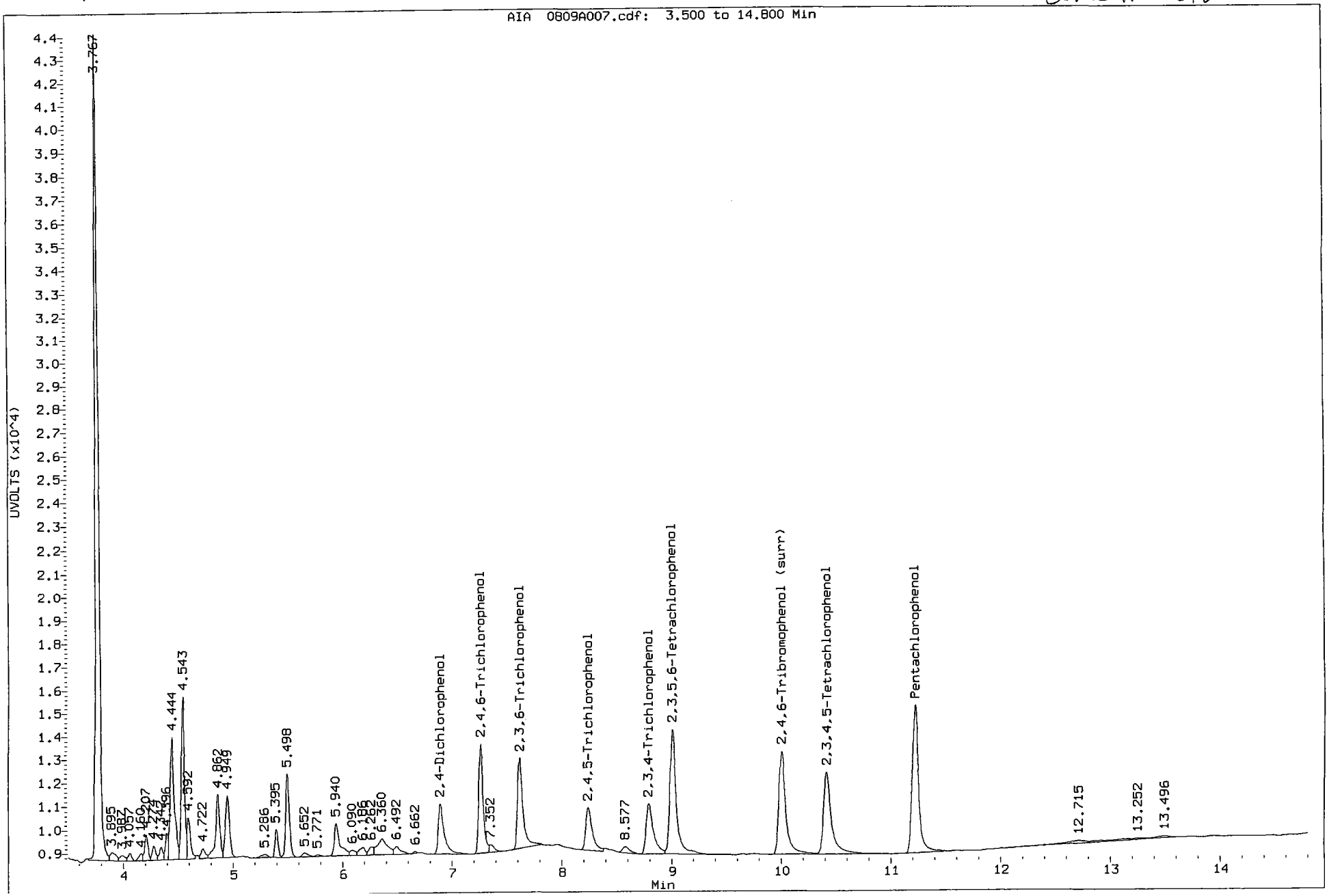
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
Injection Date: 09-AUG-2010 13:03
Instrument: ecd1.i
Client Sample ID:

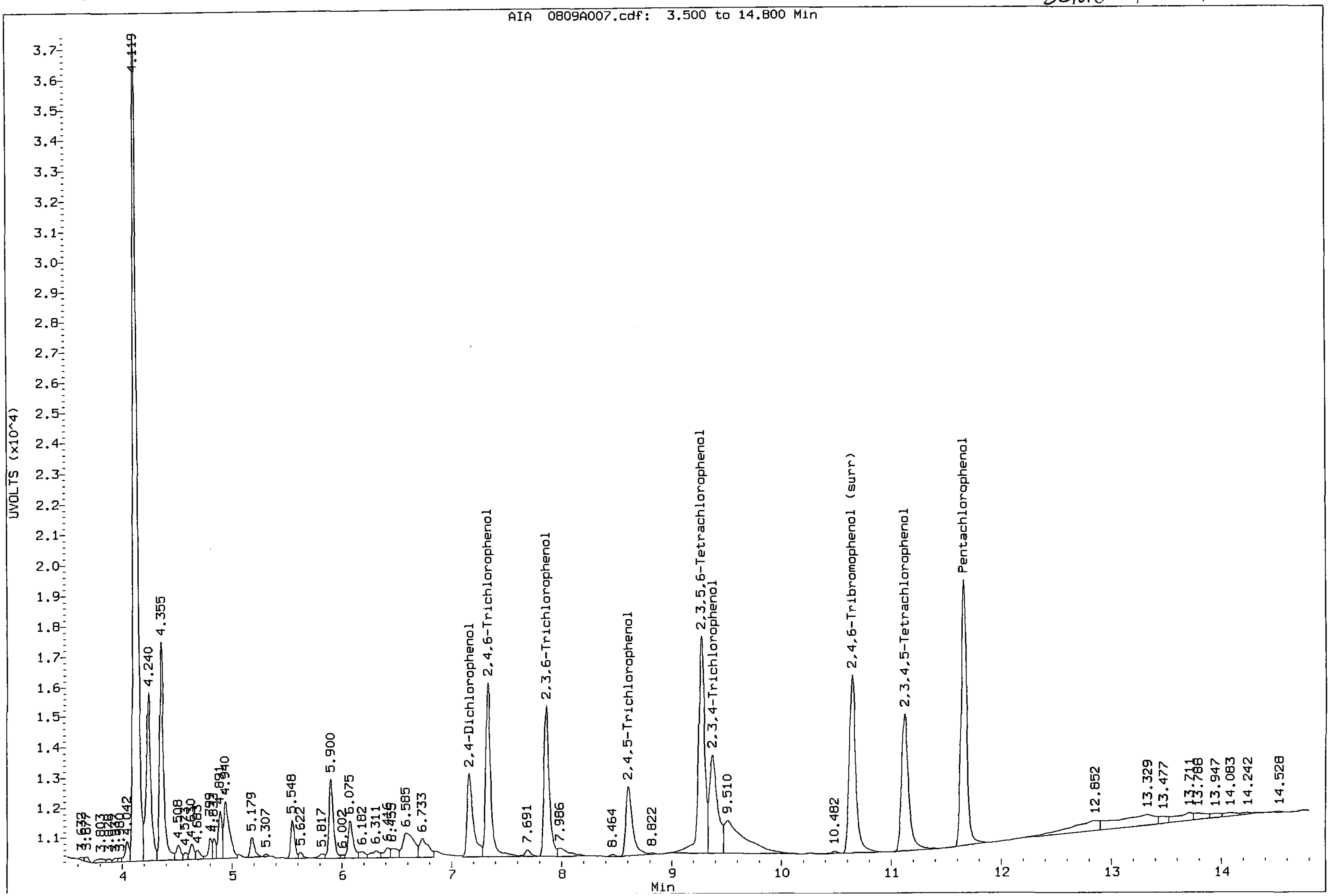
Before AR 8/18/2010



RCS1 : 01089

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
Injection Date: 09-AUG-2010 13:03
Instrument: ecd1.i
Client Sample ID:

Before AR 8/12/2010



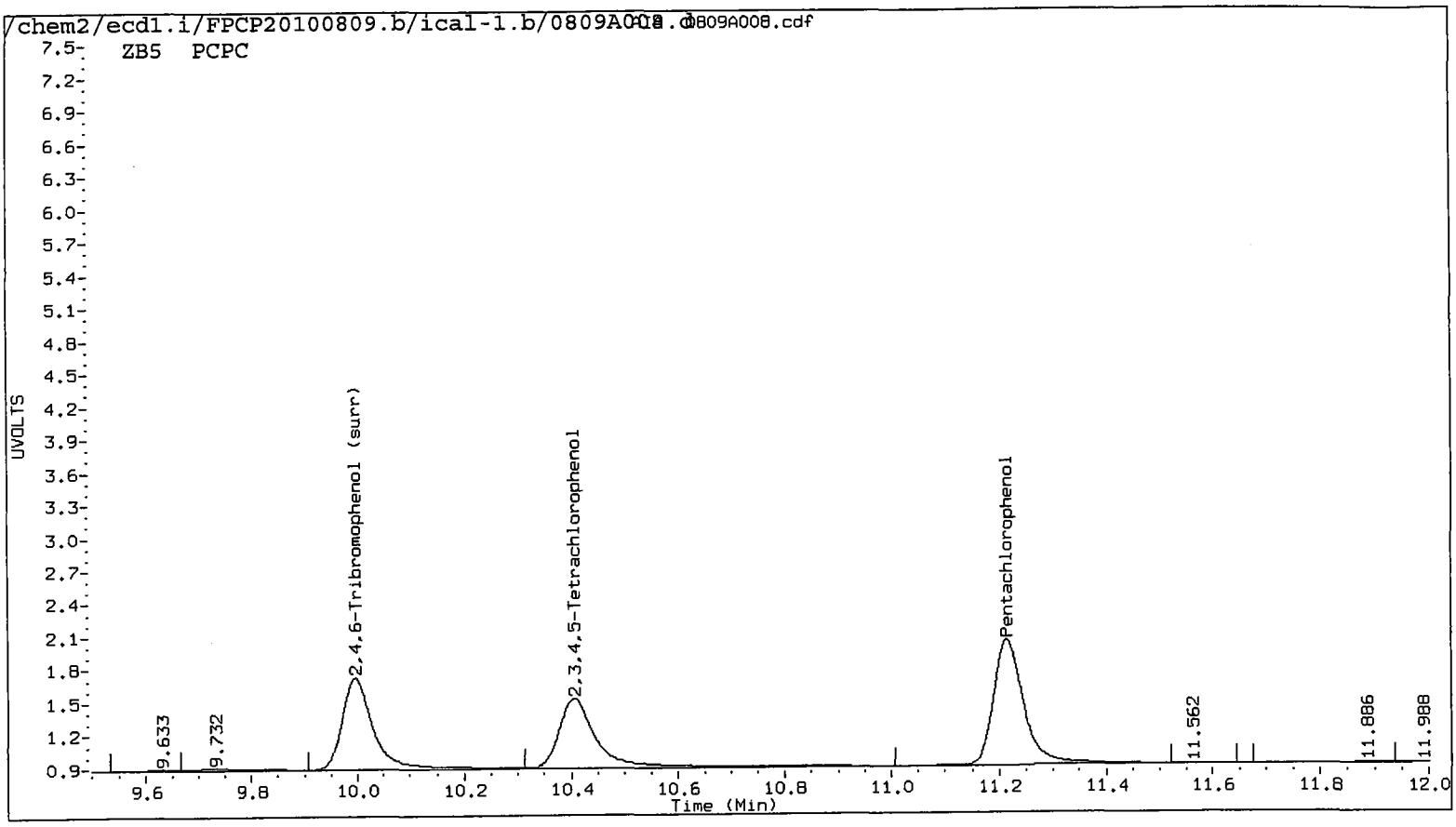
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

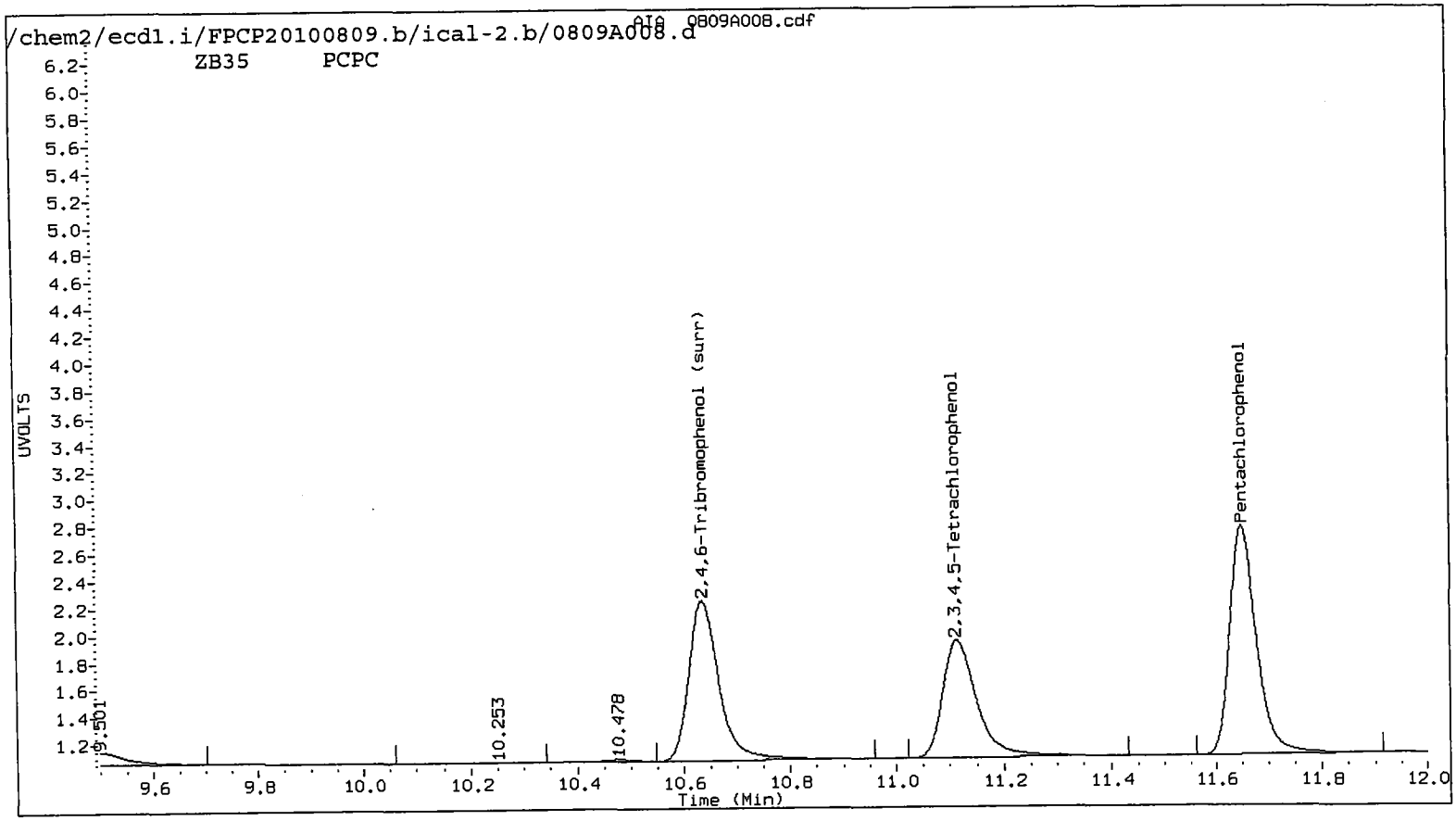
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d ARI ID: PCPC
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 09-AUG-2010 13:23
Report Date: 08/12/2010 19:15
Matrix: WATER
Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	222874	11.652	-0.006	298790	13.5277	13.0127	3.9	Pentachlorophenol
7.263	-0.001	119503	7.331	-0.002	175254	13.3777	14.0376	4.8	2,4,6-Trichlorophenol
7.617	-0.002	120087	7.860	-0.004	157630	12.9827	12.7034	2.2	2,3,6-Trichlorophenol
8.232	-0.010	71098	8.600	-0.015	89400	14.0857	13.5058	4.2	2,4,5-Trichlorophenol
8.780	-0.012	89192	9.365	-0.015	117878	13.0377	13.1515	0.9	2,3,4-Trichlorophenol
9.002	-0.005	187444	9.266	-0.011	232265	13.2886	12.5448	5.8	2,3,5,6-Tetrachlorophenol
10.406	-0.007	153678	11.115	-0.011	189199	13.8120	12.9671	6.3	2,3,4,5-Tetrachlorophenol
6.890	-0.003	76337	7.160	-0.006	91643	141.9985	137.3547	3.3	2,4-Dichlorophenol
9.996	-0.006	174610	10.636	-0.010	235194	13.5	12.6	6.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	53.9	50.4

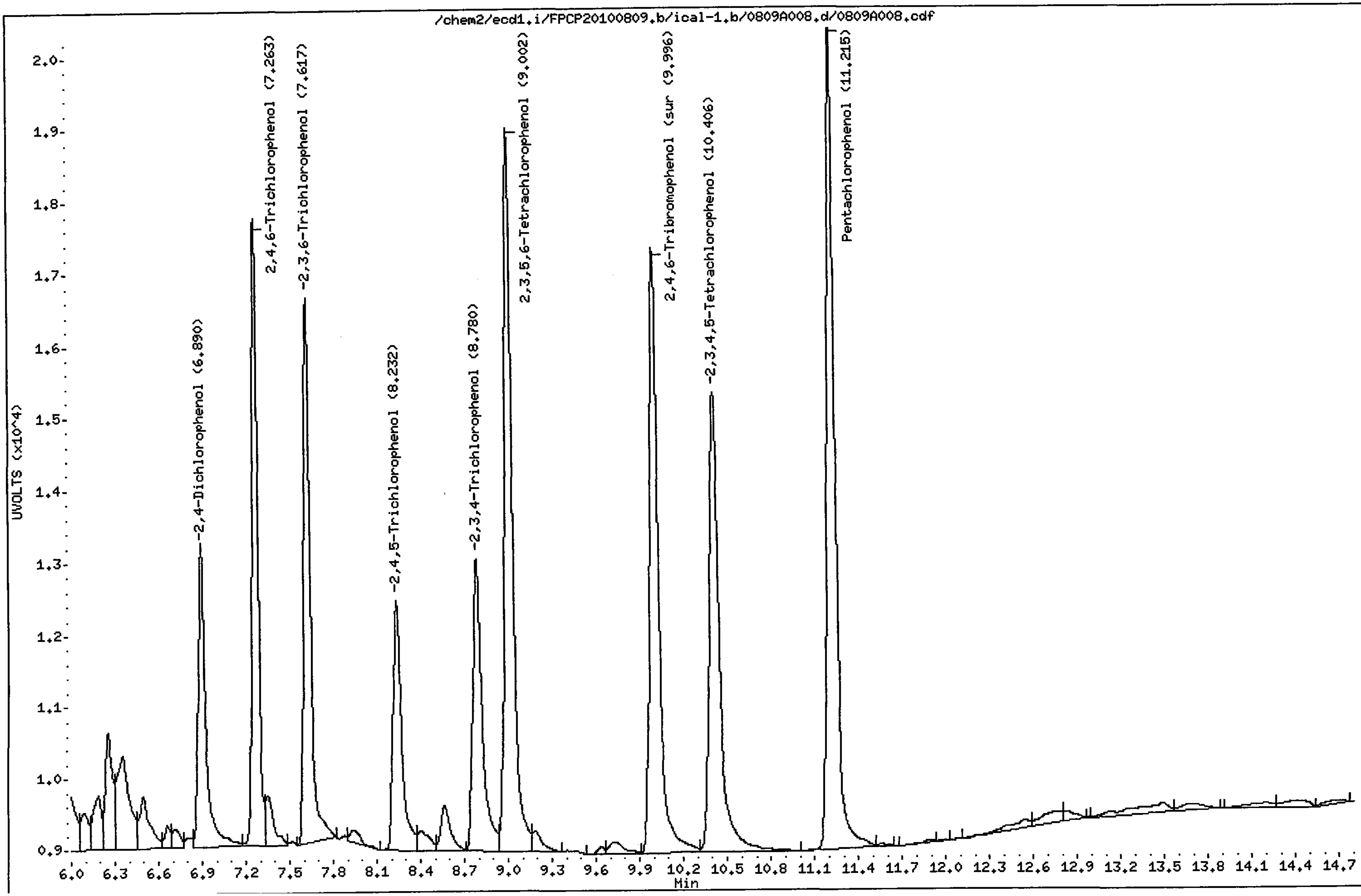

/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
AIA 0809A008.cdf
ZB5 PCPC
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.633
9.732
11.562
11.886
11.988
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
AIA 0809A008.cdf
ZB35 PCPC
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.501
10.253
10.478
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
Date : 09-AUG-2010 13:23
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

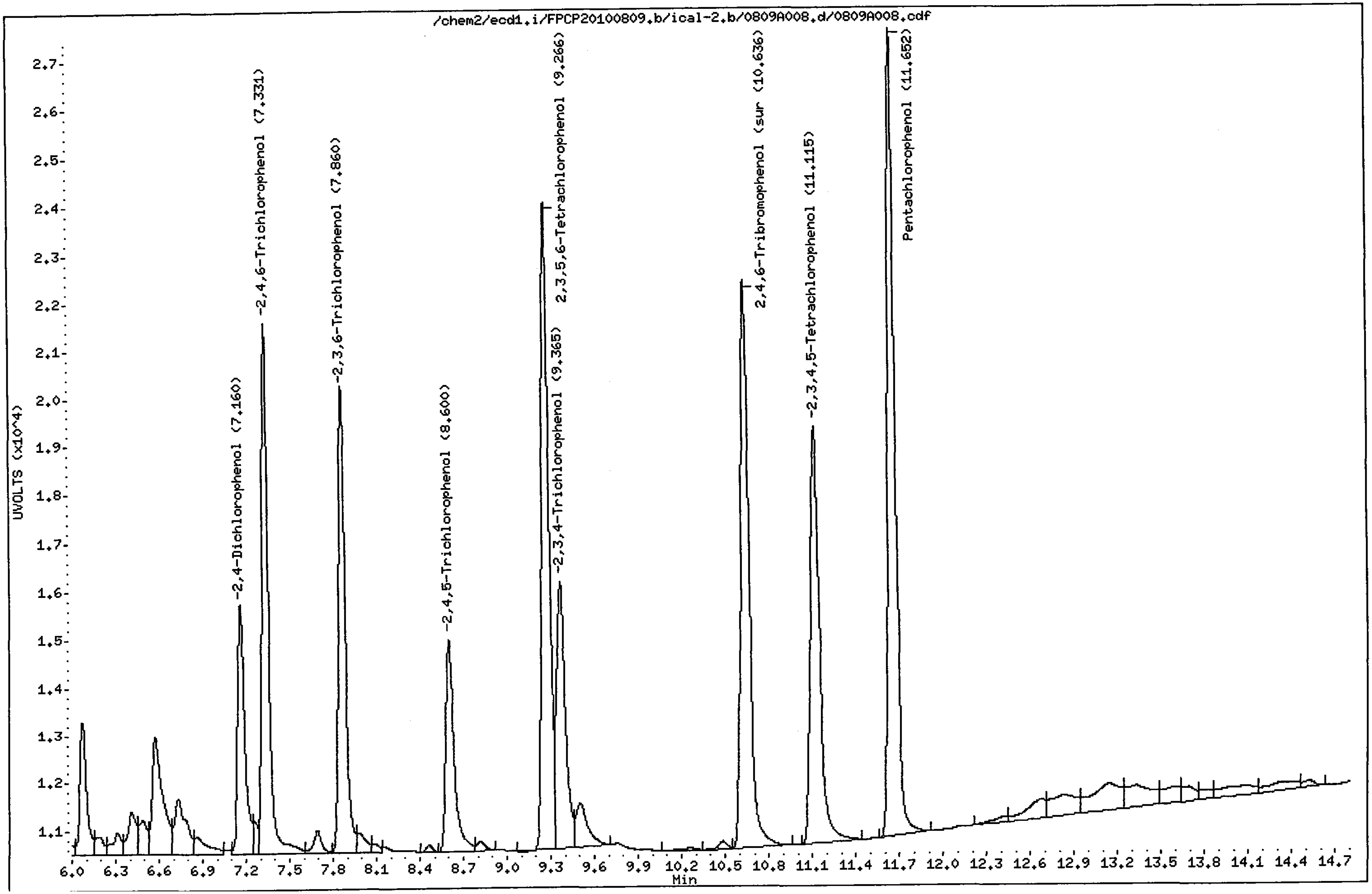
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
Date : 09-AUG-2010 13:23
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



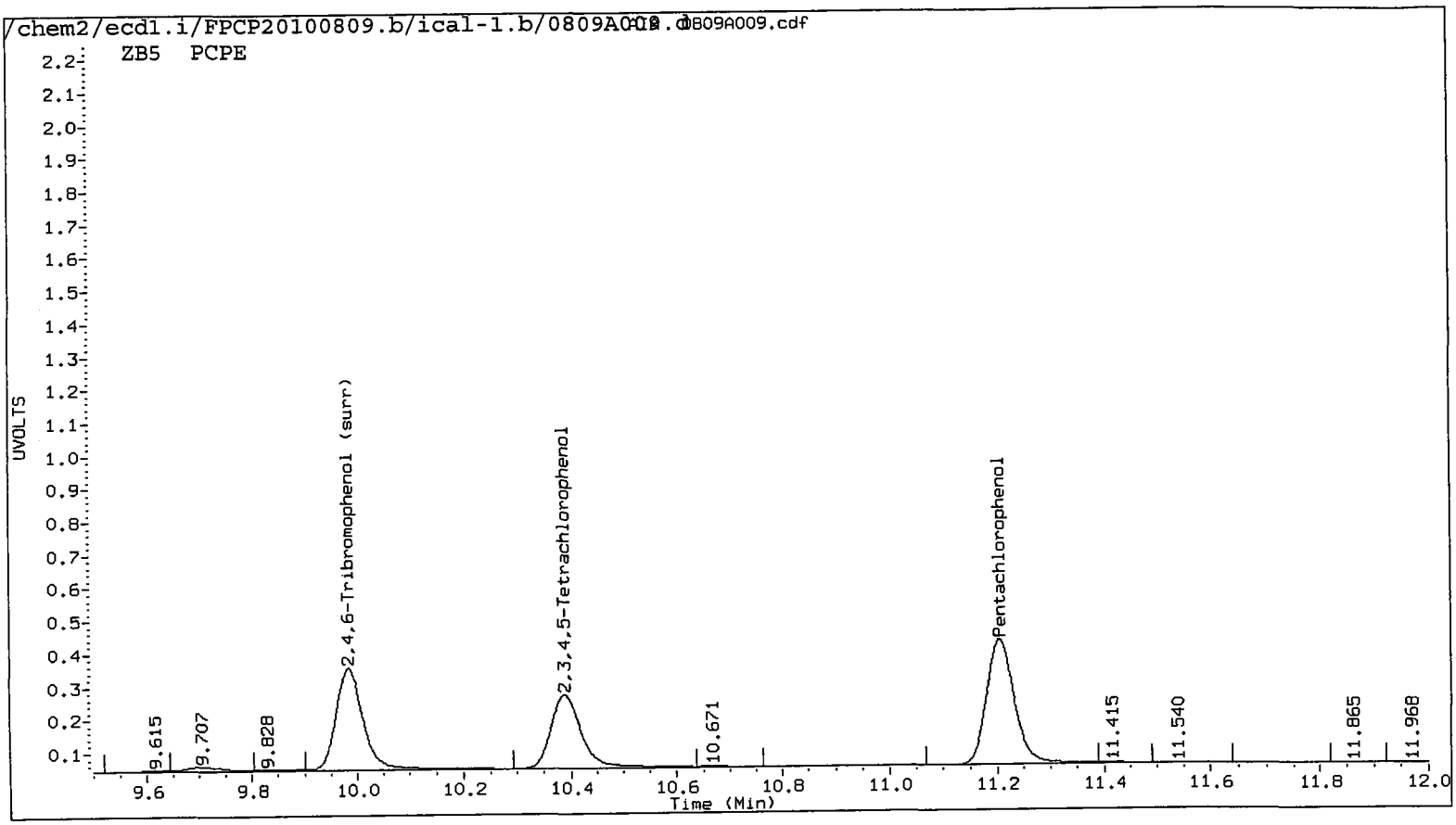
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

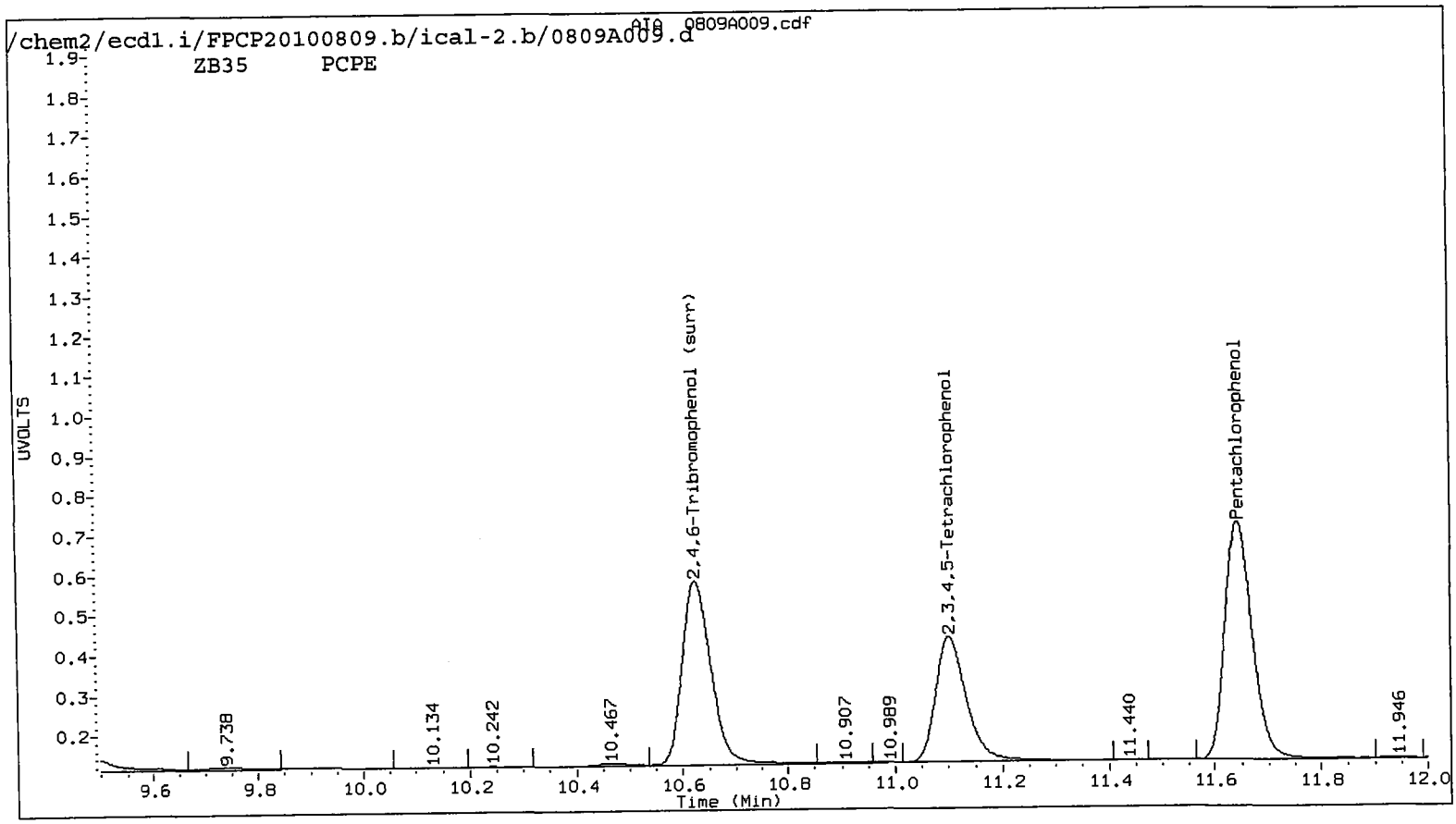
Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d ARI ID: PCPE
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 13:43
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.206	-0.013	684285	11.645	-0.013	1025332	49.0326	44.6545	9.3	Pentachlorophenol
7.259	-0.005	376941	7.327	-0.006	561100	49.0547	44.9434	8.7	2,4,6-Trichlorophenol
7.611	-0.008	401238	7.855	-0.009	556890	49.3933	44.8796	9.6	2,3,6-Trichlorophenol
8.212	-0.030	214503	8.586	-0.029	278412	42.4967	49.1247	14.5	2,4,5-Trichlorophenol
8.760	-0.032	273728	9.351	-0.029	376624	40.0123	48.9147	20.0	2,3,4-Trichlorophenol
8.990	-0.017	594124	9.256	-0.021	833297	42.1197	45.0070	6.6	2,3,5,6-Tetrachlorophenol
10.389	-0.024	444734	11.103	-0.023	639912	48.8325	43.8575	10.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009	204471	7.153	-0.013	267768	486.7918	490.3559	0.7	2,4-Dichlorophenol
9.984	-0.018	559983	10.626	-0.020	861309	49.4	46.1	6.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	197.7	184.6

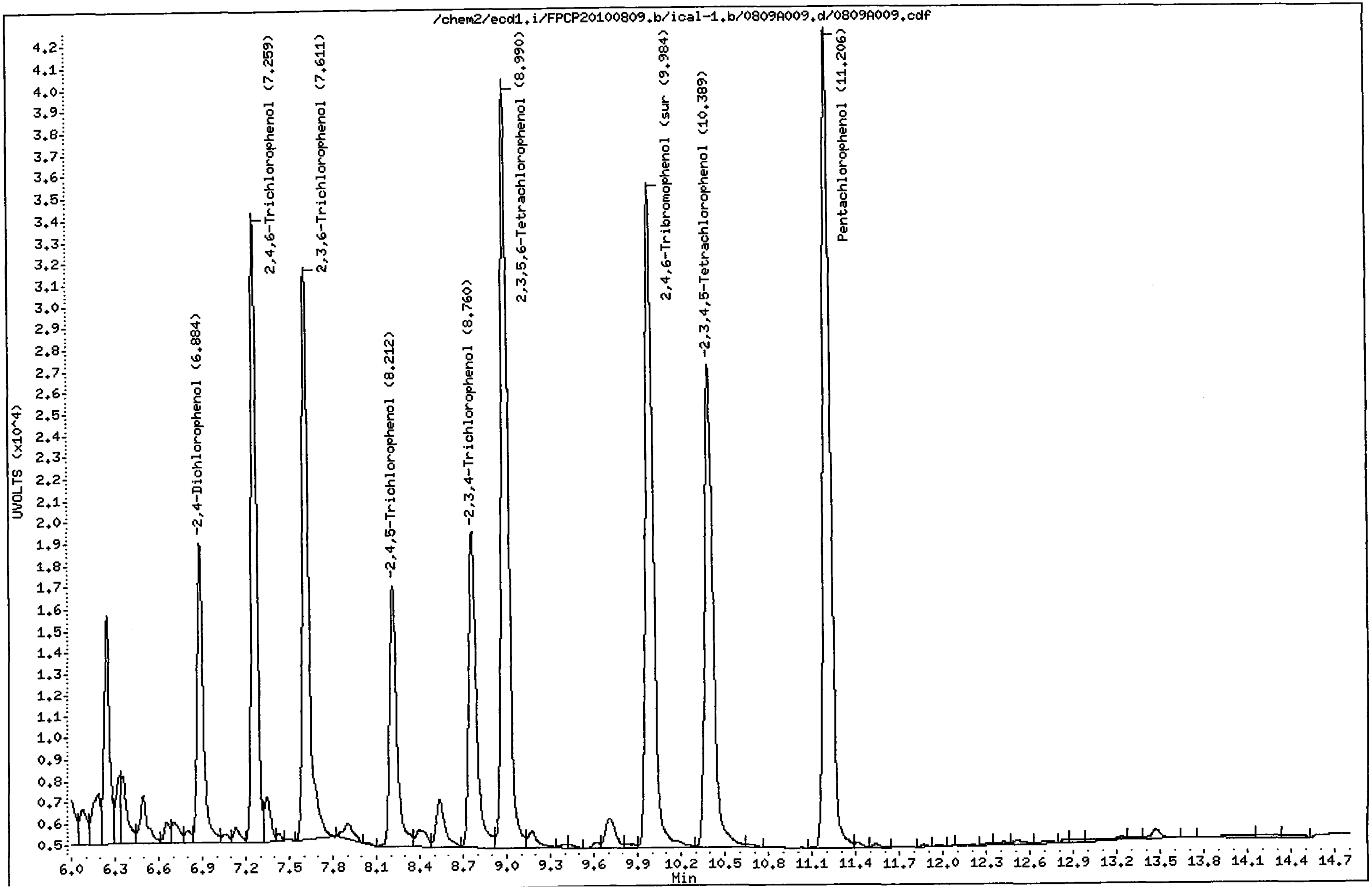

/chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
AI0 0809A009.cdf
ZB5 PCPE
UVOLTS
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
9.615
9.707
9.828
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
10.671
Pentachlorophenol
11.415
11.540
11.865
11.968
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
AI0 0809A009.cdf
ZB35 PCPE
UVOLTS
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
9.738
10.134
10.242
10.467
2,4,6-Tribromophenol (surr)
10.907
10.989
2,3,4,5-Tetrachlorophenol
11.440
Pentachlorophenol
11.946
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB5

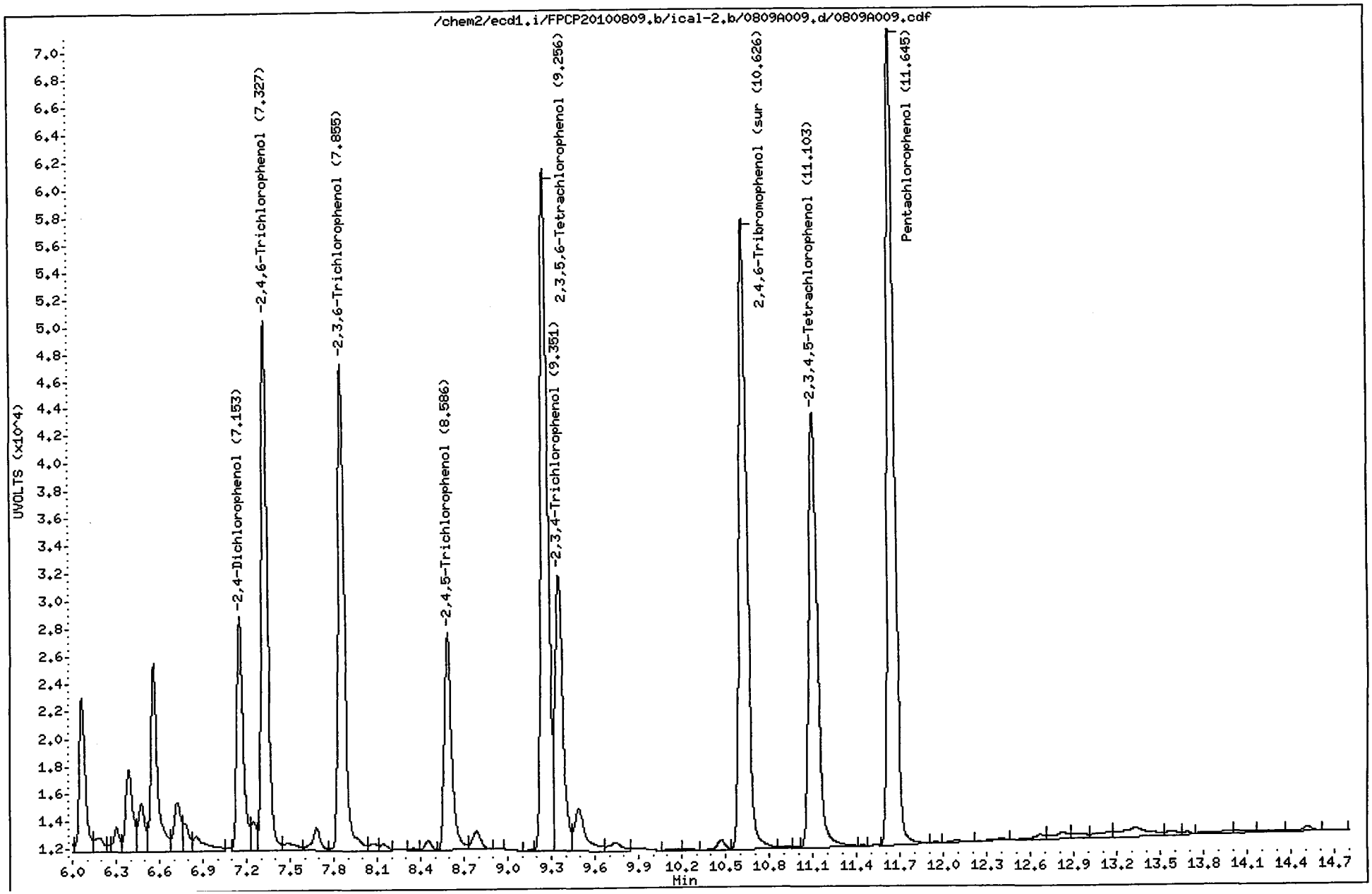
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
Date : 09-AUG-2010 13:43
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



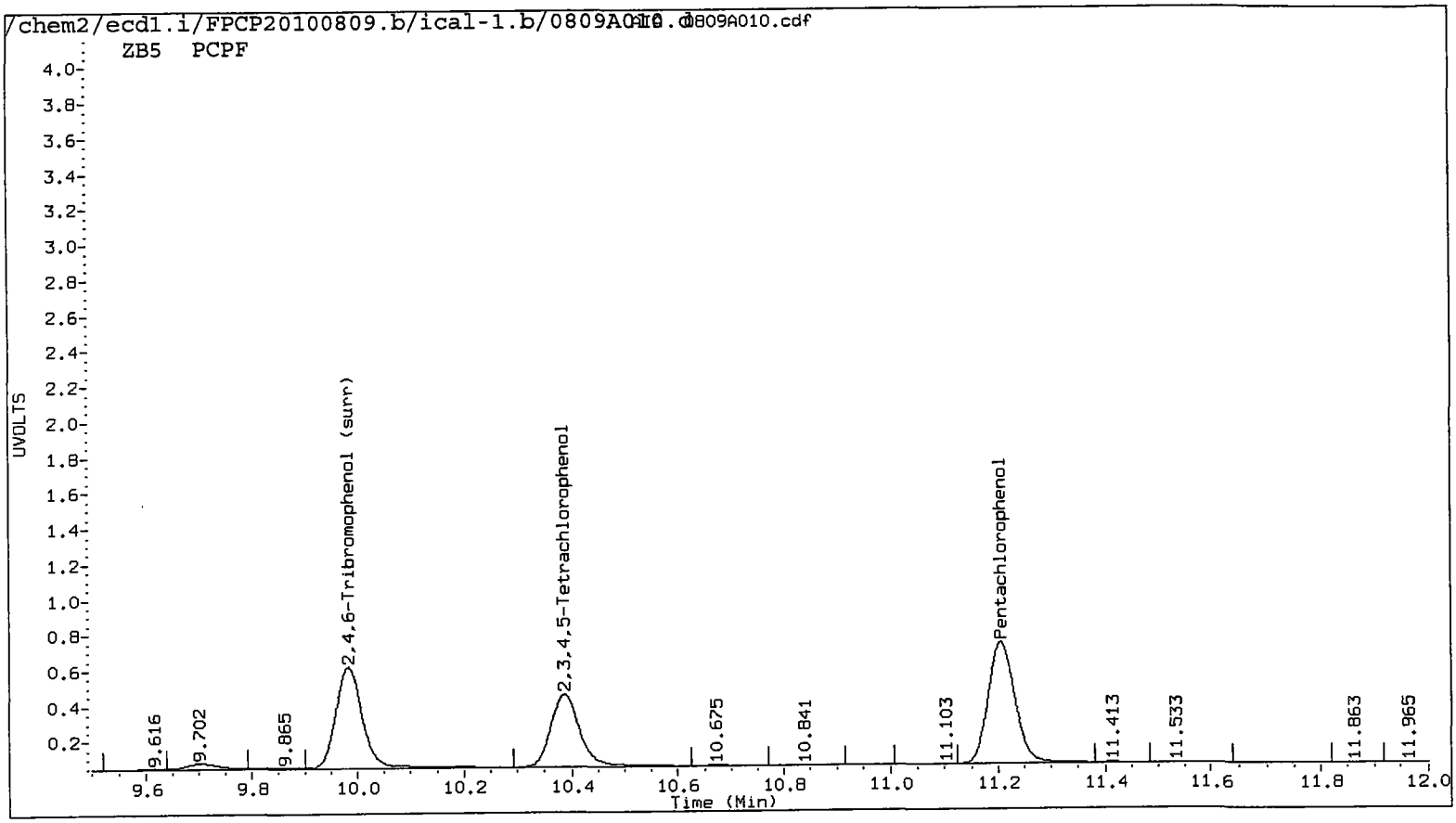
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d ARI ID: PCPF
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:03
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.206	-0.013	1196534	11.646	-0.012	1836826	100.2949	79.9961	22.5	Pentachlorophenol
7.260	-0.004	665977	7.328	-0.005	1007057	100.2742	80.6640	21.7	2,4,6-Trichlorophenol
7.612	-0.007	716085	7.856	-0.008	1010769	100.1734	81.4576	20.6	2,3,6-Trichlorophenol
8.209	-0.033	362686	8.584	-0.031	489569	71.8542	100.2604	33.0	2,4,5-Trichlorophenol
8.756	-0.036	505263	9.349	-0.031	666942	73.8571	100.3206	30.4	2,3,4-Trichlorophenol
8.990	-0.017	1055773	9.257	-0.020	1529812	74.8477	82.6263	9.9	2,3,5,6-Tetrachlorophenol
10.387	-0.026	762767	11.103	-0.023	1154091	100.3602	79.0976	23.7	2,3,4,5-Tetrachlorophenol
6.884	-0.009	341711	7.153	-0.013	457854	1004.0557	1002.7434	0.1	2,4-Dichlorophenol
9.983	-0.019	994034	10.627	-0.019	1608339	100.2	86.2	15.1	2,4,6-Tribromophenol (surr

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	400.8	344.6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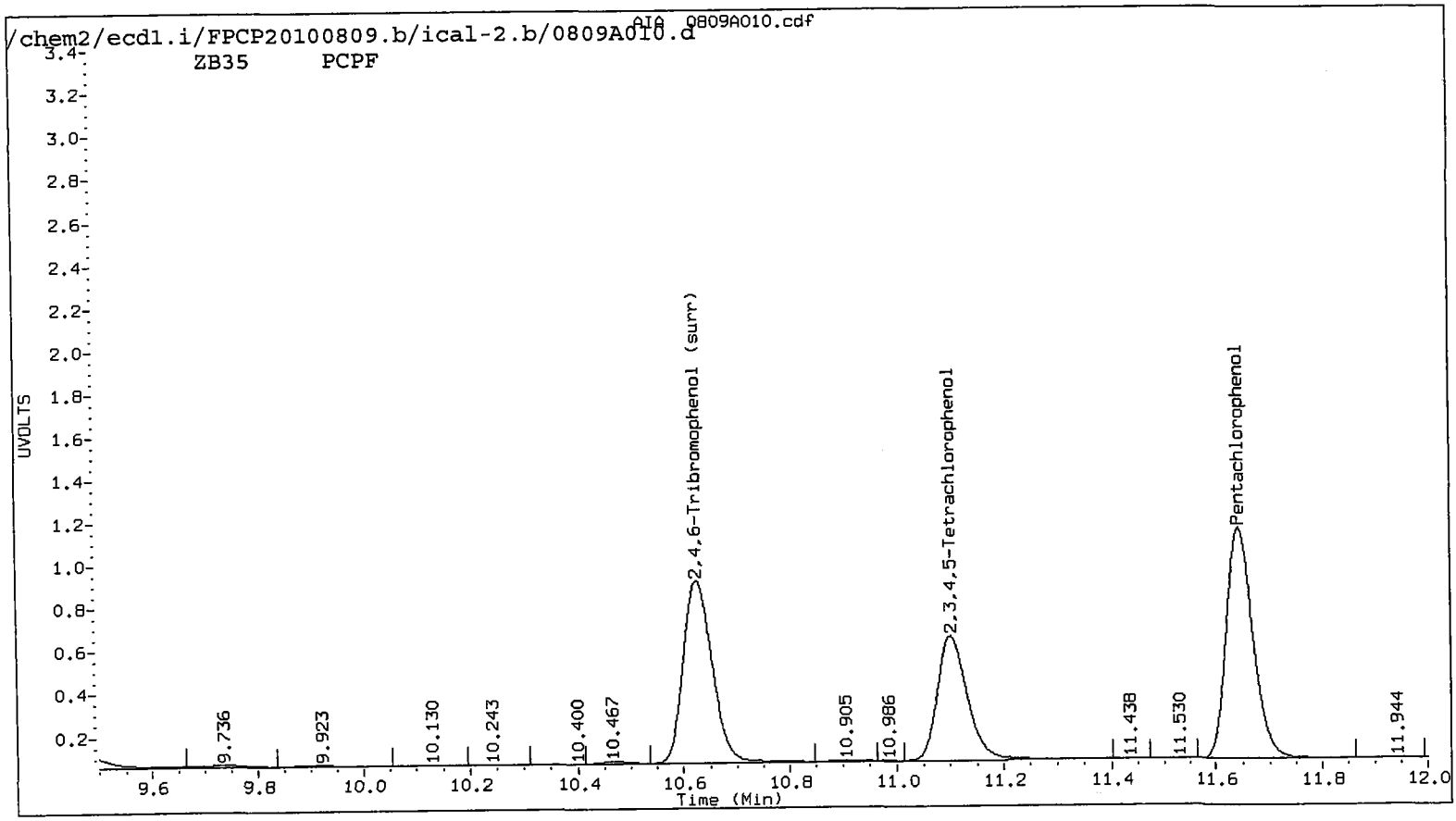
AIA 0809A010.cdf
ZB5 PCPF
UVOLTS
Time (Min)
9.616
9.702
9.865
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
10.675
10.841
11.103
Pentachlorophenol
11.413
11.533
11.863
11.965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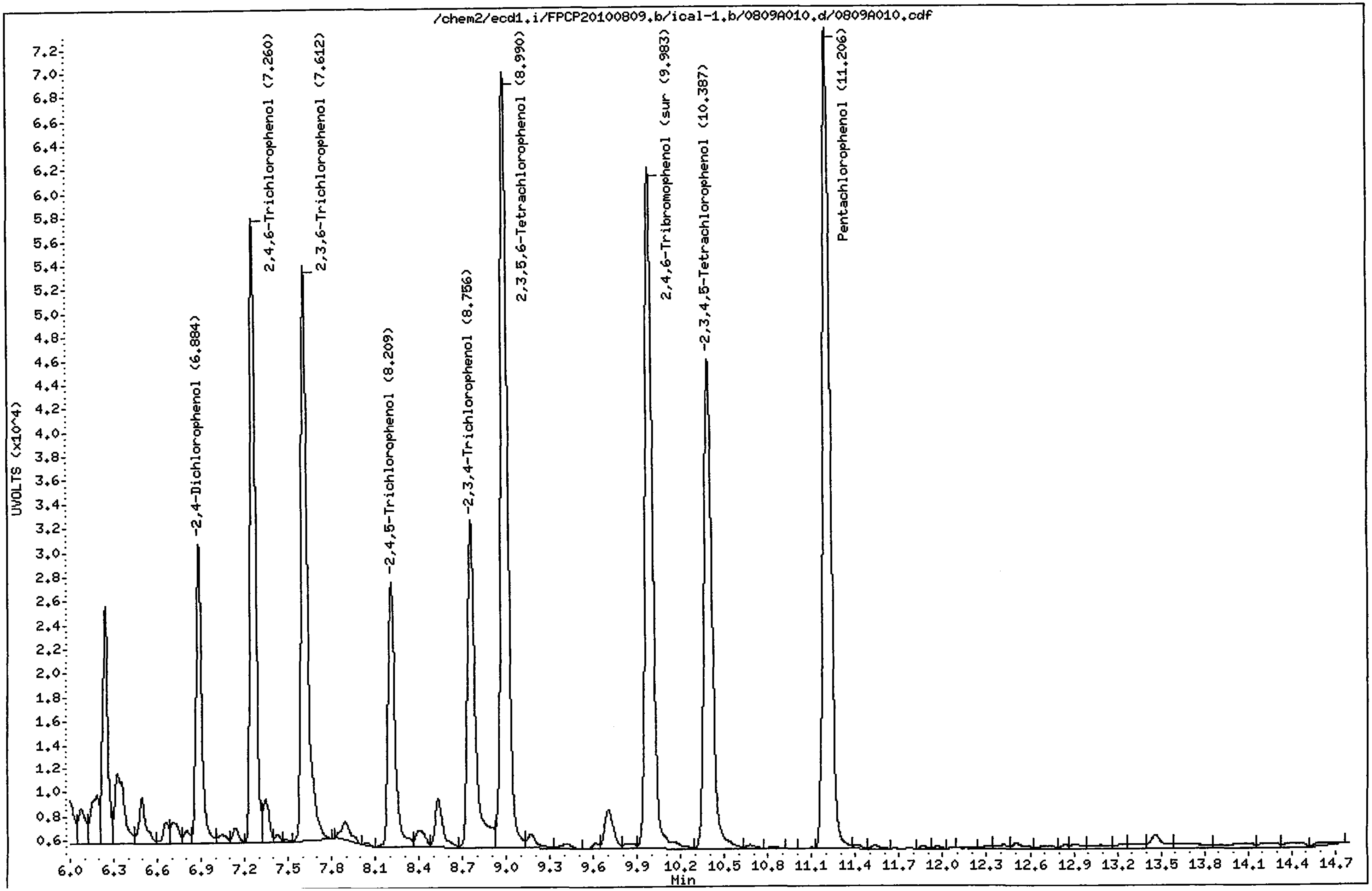
AIA 0809A010.cdf
ZB35 PCPF
UVOLTS
Time (Min)
9.736
9.923
10.130
10.243
10.400
10.467
2,4,6-Tribromophenol (surr)
10.905
10.986
2,3,4,5-Tetrachlorophenol
11.438
11.530
Pentachlorophenol
11.944

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB5

Page 1

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



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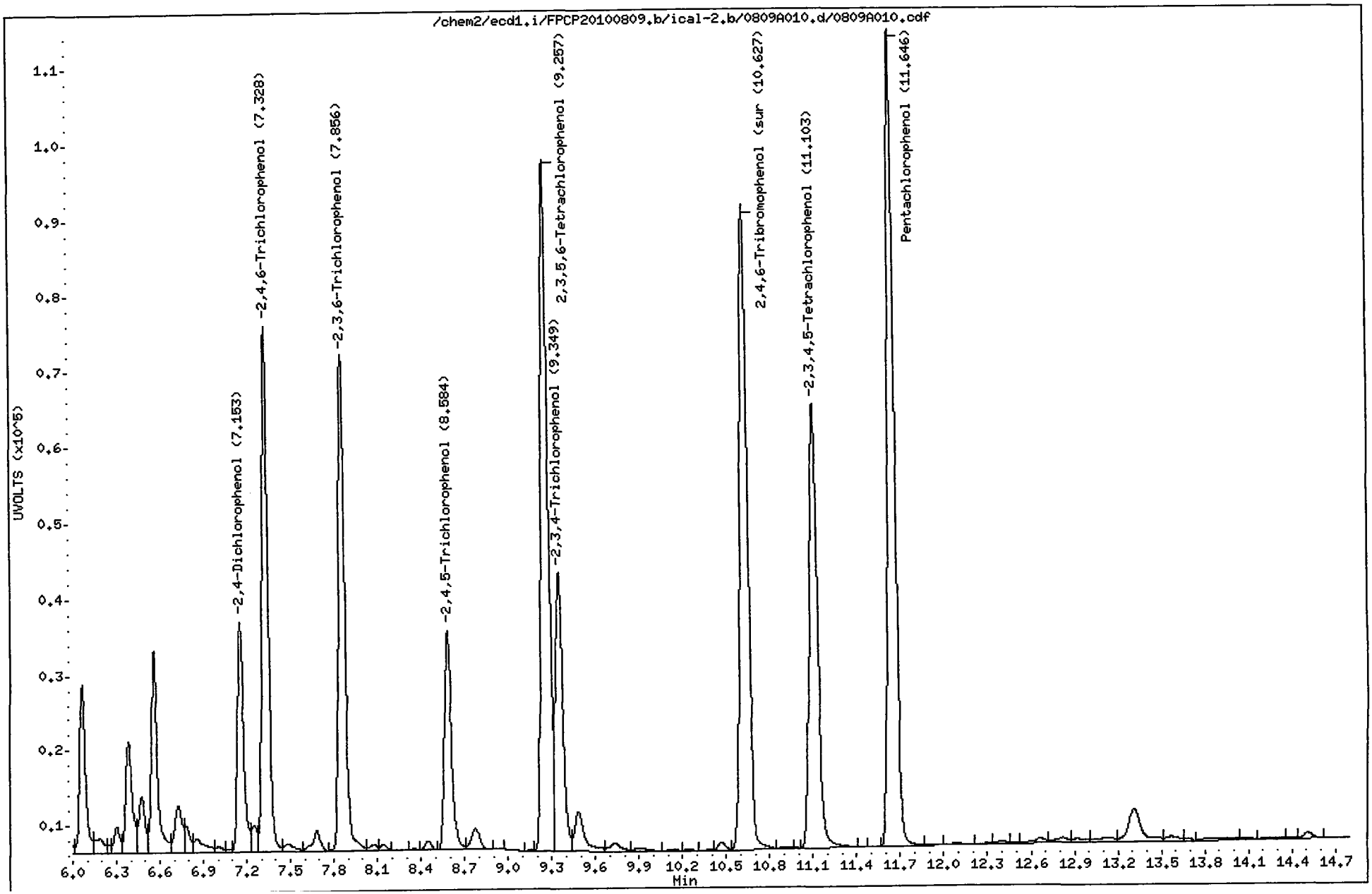
Date : 09-AUG-2010 14:03
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



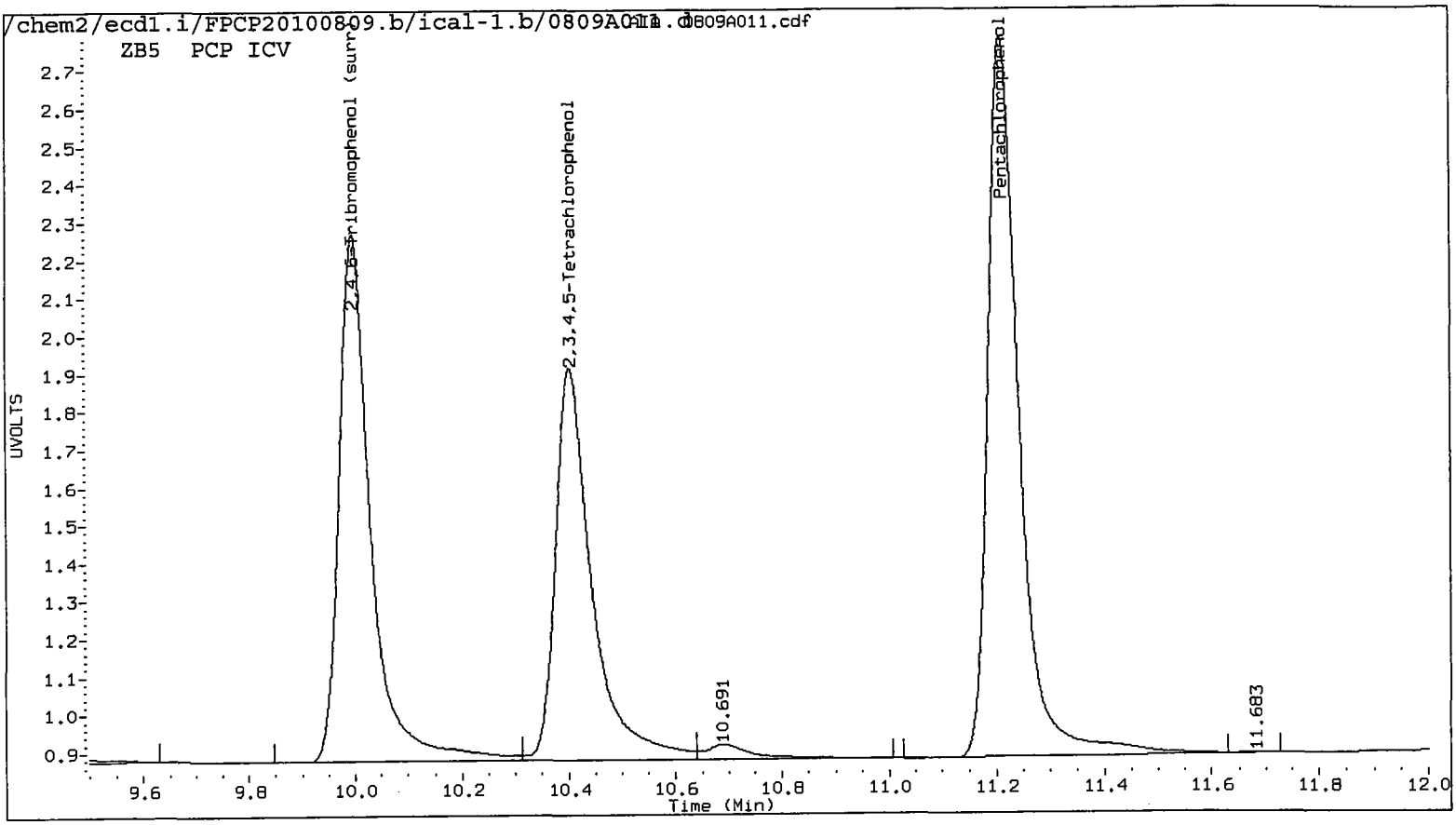
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A011.d ARI ID: PCP ICV
Data file 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 09-AUG-2010 14:23
Compound Sublist: all Report Date: 08/12/2010 19:15
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.215	-0.004	379790	11.652	-0.006	529883	24.4673	23.0771	5.8	Pentachlorophenol
7.262	-0.002	205092	7.330	-0.003	298811	24.1995	23.9344	1.1	2,4,6-Trichlorophenol
7.616	-0.003	218352	7.859	-0.005	286346	24.7503	23.0765	7.0	2,3,6-Trichlorophenol
8.230	-0.012	122402	8.599	-0.016	148542	24.2499	23.6199	2.6	2,4,5-Trichlorophenol
8.781	-0.011	146955	9.367	-0.013	237744	21.4812	28.5412	28.2	2,3,4-Trichlorophenol
9.000	-0.007	327277	9.265	-0.012	434865	23.2019	23.4874	1.2	2,3,5,6-Tetrachlorophenol
10.405	-0.008	246924	11.114	-0.012	318432	23.7688	21.8243	8.5	2,3,4,5-Tetrachlorophenol
6.888	-0.005	114813	7.158	-0.008	155429	231.5174	251.6722	8.3	2,4-Dichlorophenol
9.997	-0.005	292116	10.636	-0.010	411868	23.5	22.1	6.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	97.9	92.3
2,4,6-Trichlorophenol	96.8	95.7
2,3,6-Trichlorophenol	99.0	92.3
2,4,5-Trichlorophenol	97.0	94.5
2,3,4-Trichlorophenol	85.9	114.2
2,3,5,6-Tetrachlorophenol	92.8	93.9
2,3,4,5-Tetrachlorophenol	95.1	87.3
2,4-Dichlorophenol	92.6	100.7
2,4,6-TBP (surr)	47.0	44.1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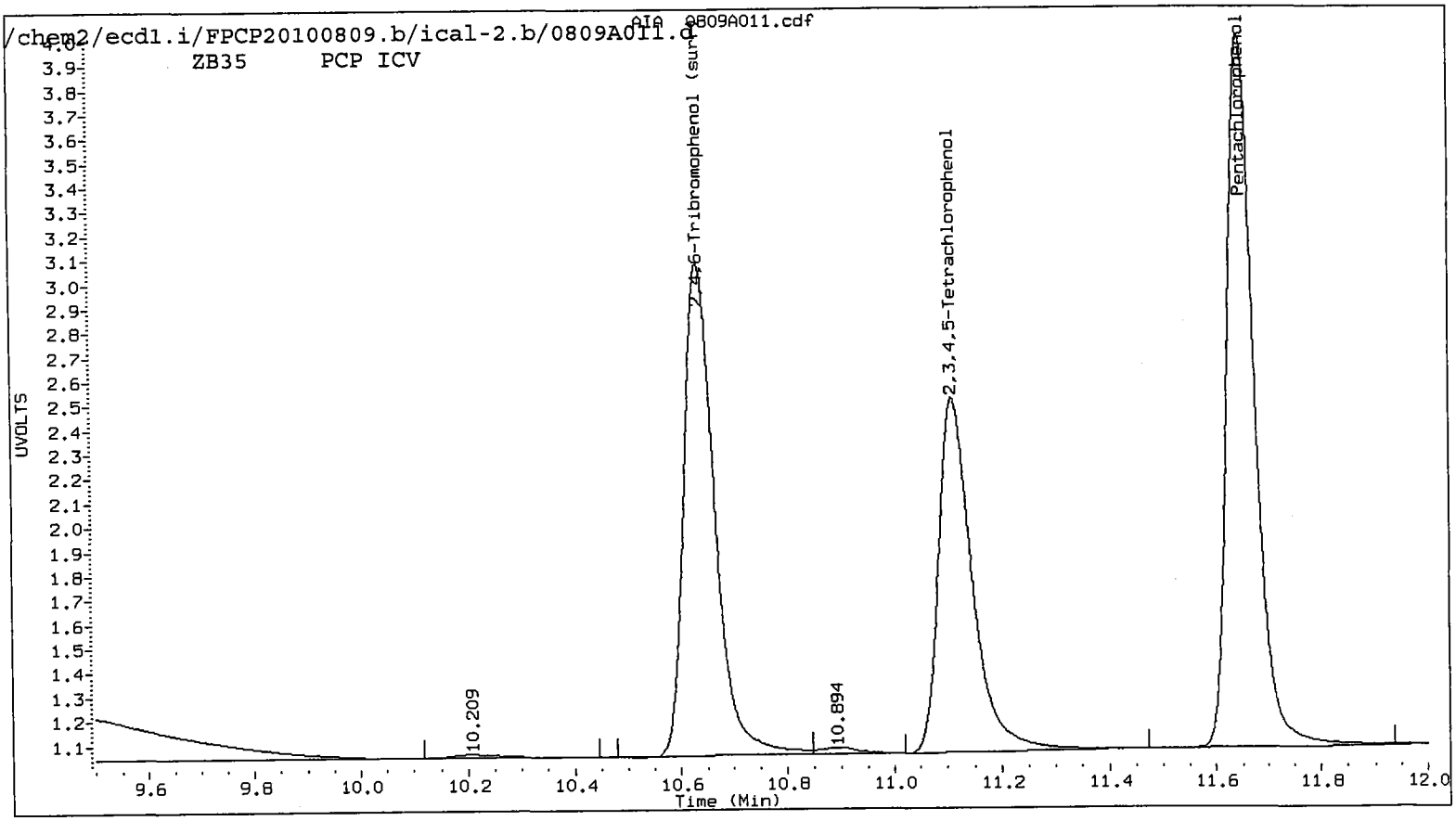
ZB5 PCP ICV
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
10.691
11.683
UVOLTS
Time (Min)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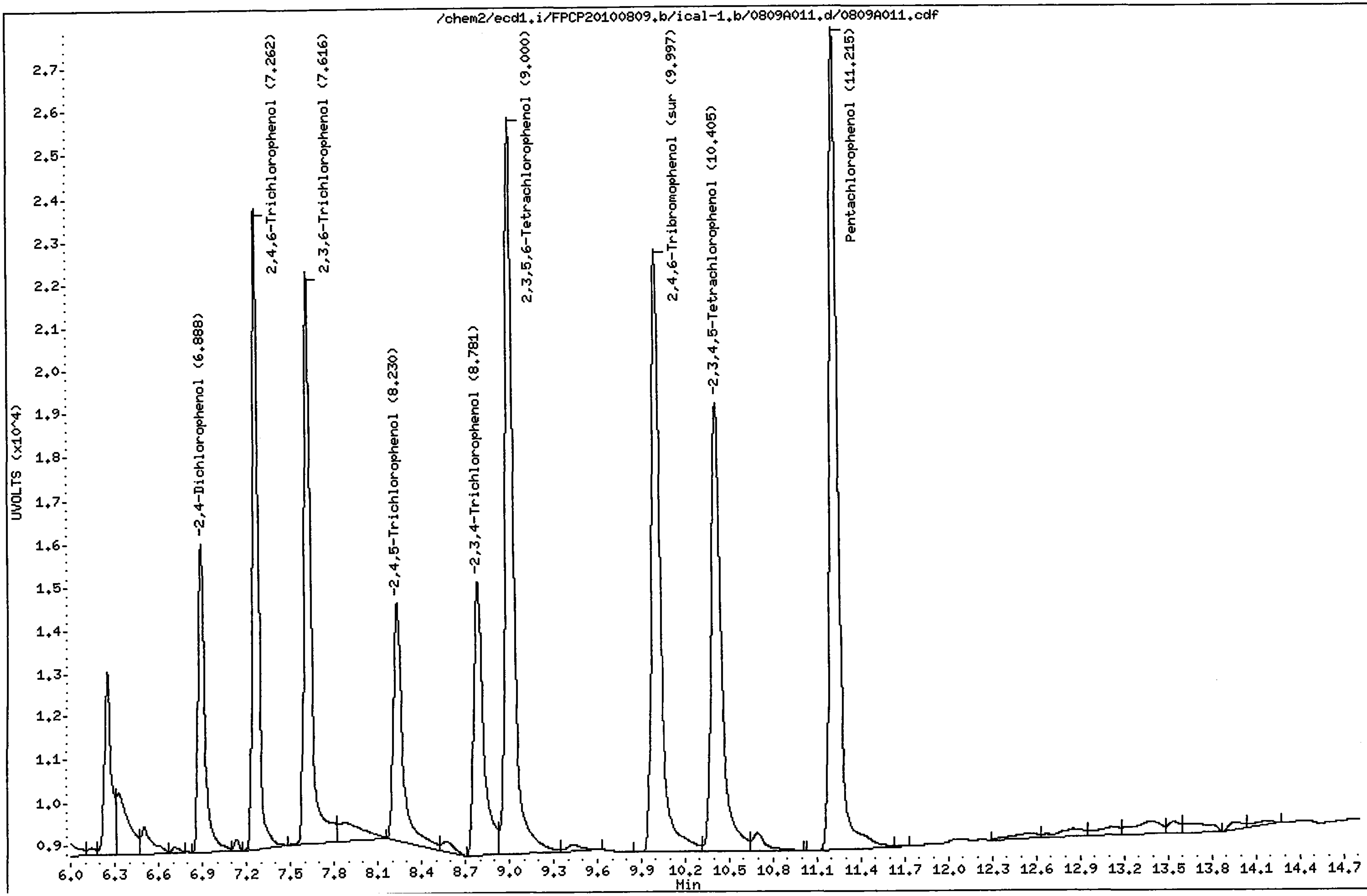
ZB35 PCP ICV
2,4,6-Tribromophenol (surr
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
10.209
10.894
UVOLTS
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A011.d
Date : 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



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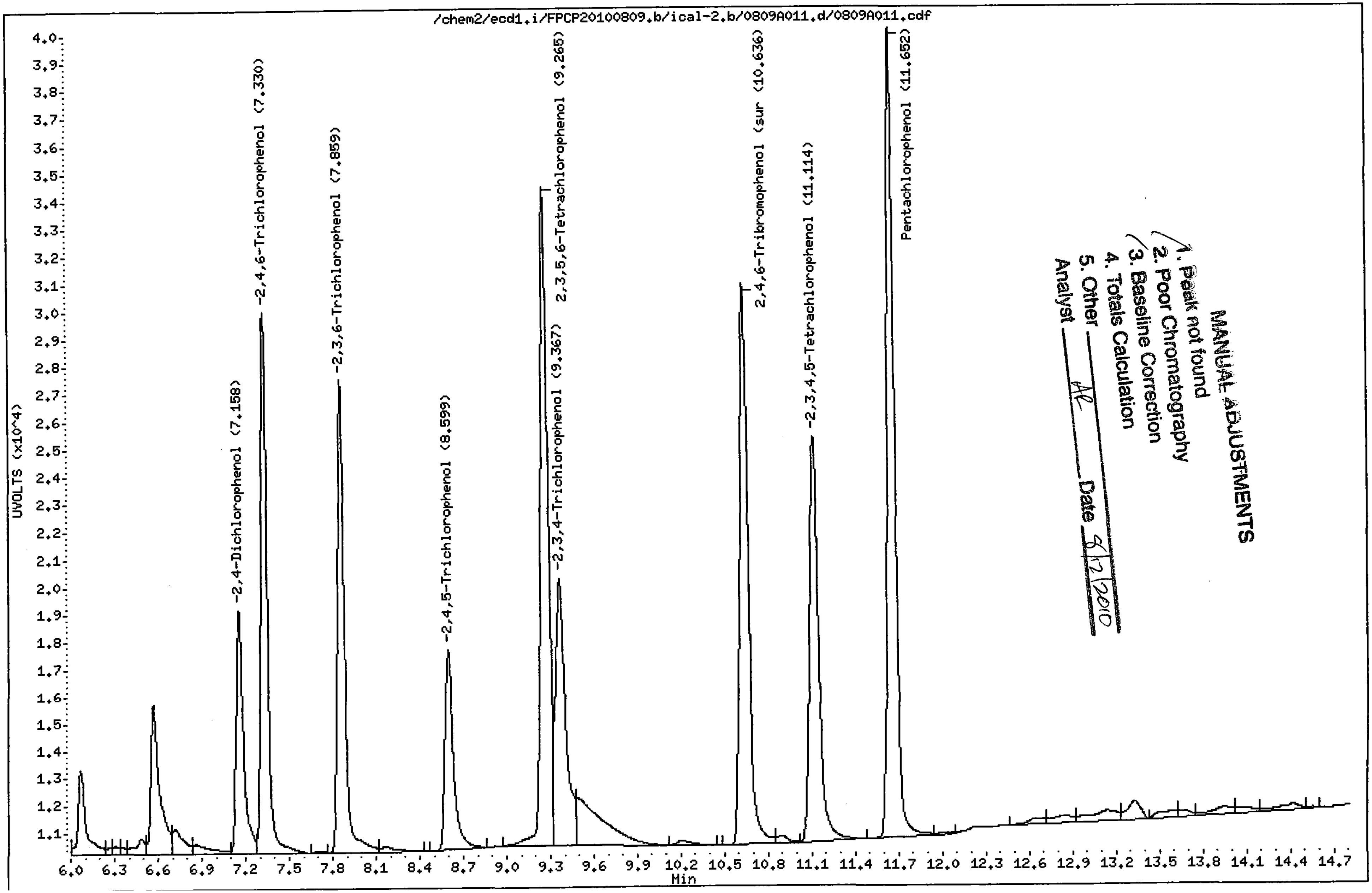
Date : 09-AUG-2010 14:23
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

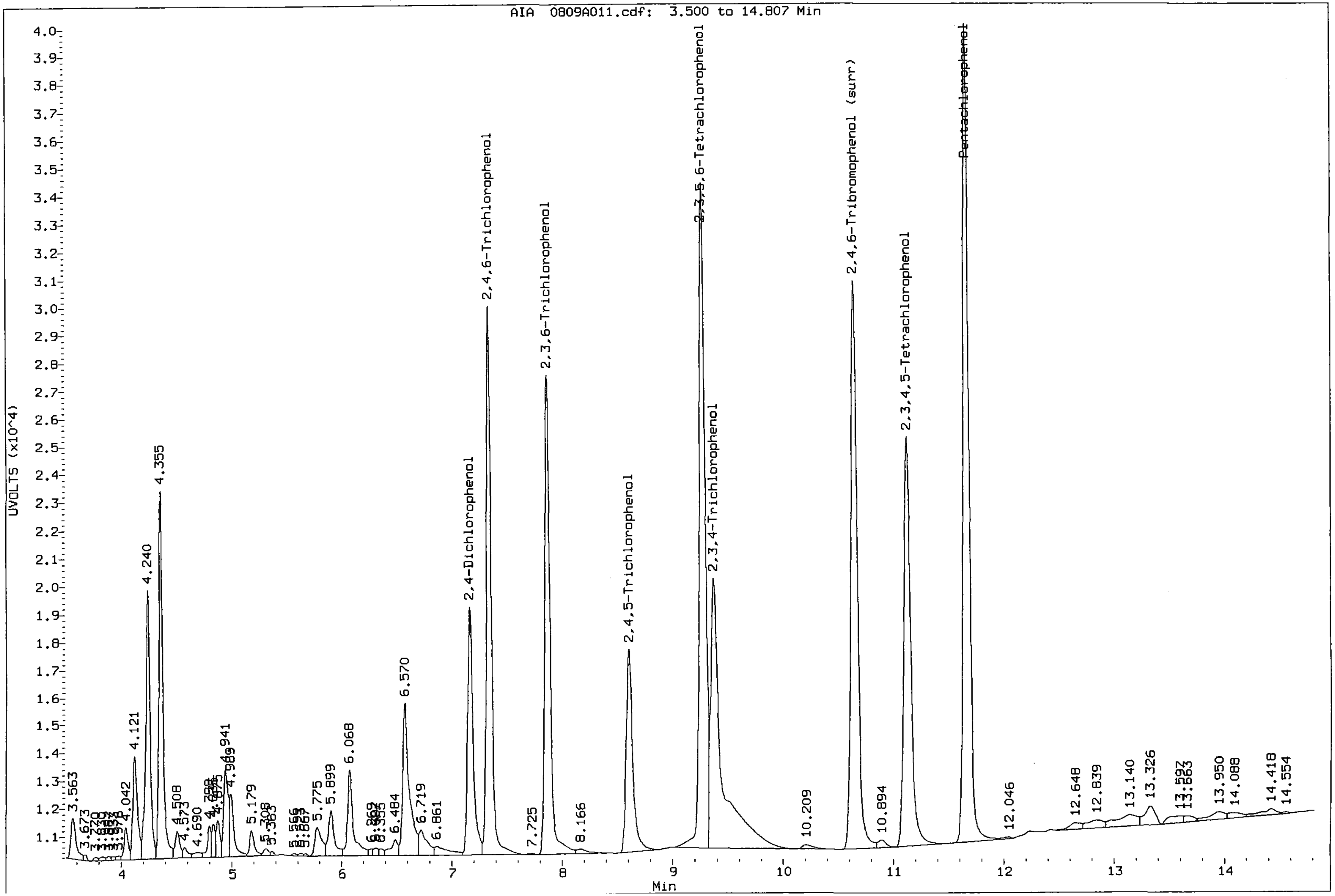
Operator: ar
Column diameter: 0.53



MANUAL ADJUSTMENTS
1. Peak not found
✓ 2. Poor Chromatography
✓ 3. Baseline Correction
4. Totals Calculation
5. Other ____ Date 8/12/2010
Analyst AR

Data File: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A011.d/0809A011.cdf
Injection Date: 09-AUG-2010 14:23
Instrument: ecd1.i
Client Sample ID:

Before AR 8/12/2010



PCP/Chlorophenols Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG94

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/10/2010 Analysis: Cl. Phenols Analyst: AR

GC Program: PCPFAST.M Column No: 150608/448146 Column Type: 2B5/35

Instrument Tune (.U or .CT.): NA EM Voltage: NA

Calibration File: FPCP20100809 Curve Date: 8/9/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-8	1703-8
	1739-1	1731-8

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0810-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	10-AUG-2010 20:25	0810A005.d	1	PCP CCAL	
2	10-AUG-2010 20:45	0810A006.d	1	RG94MBW1	RG94MBW1
3	10-AUG-2010 21:05	0810A007.d	1	RG94LCSW1	RG94LCSW1
4	10-AUG-2010 21:25	0810A008.d	1	RG94LCSDW1	RG94LCSDW1
5	10-AUG-2010 21:45	0810A009.d	1	RG94K	MW12-ER-080210
6	10-AUG-2010 22:05	0810A010.d	1	RH16MBW1	RH16MBW1
7	10-AUG-2010 22:25	0810A011.d	1	RH16LCSW1	RH16LCSW1
8	10-AUG-2010 22:45	0810A012.d	1	RH16A	SP-2
9	10-AUG-2010 23:05	0810A013.d	1	PCP	
10	10-AUG-2010 23:25	0810A014.d	1	PCP CCAL	
11	10-AUG-2010 23:45	0810A015.d	1	DRVBLK 080910	

AR 8/12/2010

aintenance / Comments

aintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

ry line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG94 Client ID: Floyd/Snider

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): _____

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 8/9/2010 Analysis Start: 8/10/2010

Endrin/DDT Breakdown <15%? YES / NO / NA
Method Blank In Control? YES / NO
ICal Meets RF & %RSD Criteria? YES / NO
LCS/LCSD Recovery In Control? YES / NO
CCal Meets RF & %RSD Criteria? YES / NO
Surrogate Recovery In Control? YES / NO
Manual Integrations for ICal? YES / NO
Manual Integrations for Samples? YES / NO
Internal Standard Meets Criteria? YES / NO / NA
Special Analysis Criteria Met? YES / NO / NA

VDP

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/10/2010

Reviewer: _____ **Date:** 8/18/10

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

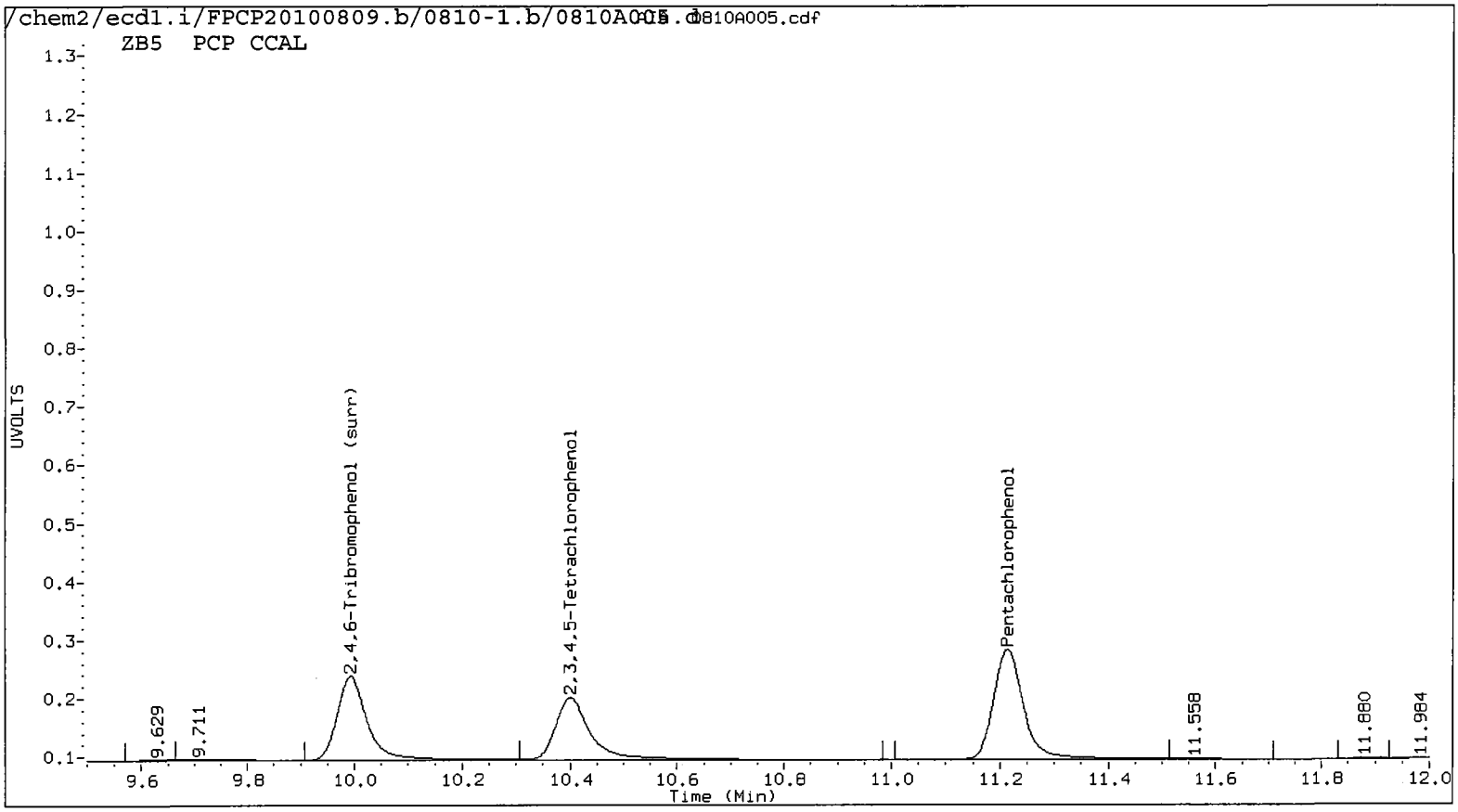
AR 8/12/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A005.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A005.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 20:25
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.214	-0.005	363242	11.651	-0.007	499192	23.2585	21.7405	6.7	Pentachlorophenol
7.263	-0.001	190688	7.331	-0.002	284856	22.3059	22.8166	2.3	2,4,6-Trichlorophenol
7.616	-0.003	188101	7.859	-0.005	269839	21.0180	21.7463	3.4	2,3,6-Trichlorophenol
8.225	-0.018	113008	8.595	-0.020	143499	22.3888	22.7210	1.5	2,4,5-Trichlorophenol
8.773	-0.019	143663	9.361	-0.019	190975	21.0001	22.2946	6.0	2,3,4-Trichlorophenol
8.998	-0.009	320298	9.263	-0.014	395593	22.7072	21.3663	6.1	2,3,5,6-Tetrachlorophenol
10.400	-0.013	244769	11.113	-0.013	308424	23.5254	21.1384	10.7	2,3,4,5-Tetrachlorophenol
6.888	-0.005	111791	7.158	-0.008	140331	224.0514	223.2266	0.4	2,4-Dichlorophenol
9.993	-0.009	282892	10.634	-0.012	400455	22.7	21.5	5.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	93.0	87.0
2,4,6-Trichlorophenol	89.2	91.3
2,3,6-Trichlorophenol	84.1	87.0
2,4,5-Trichlorophenol	89.6	90.9
2,3,4-Trichlorophenol	84.0	89.2
2,3,5,6-Tetrachlorophenol	90.8	85.5
2,3,4,5-Tetrachlorophenol	94.1	84.6
2,4-Dichlorophenol	89.6	89.3
2,4,6-TBP (surr)	90.8	85.8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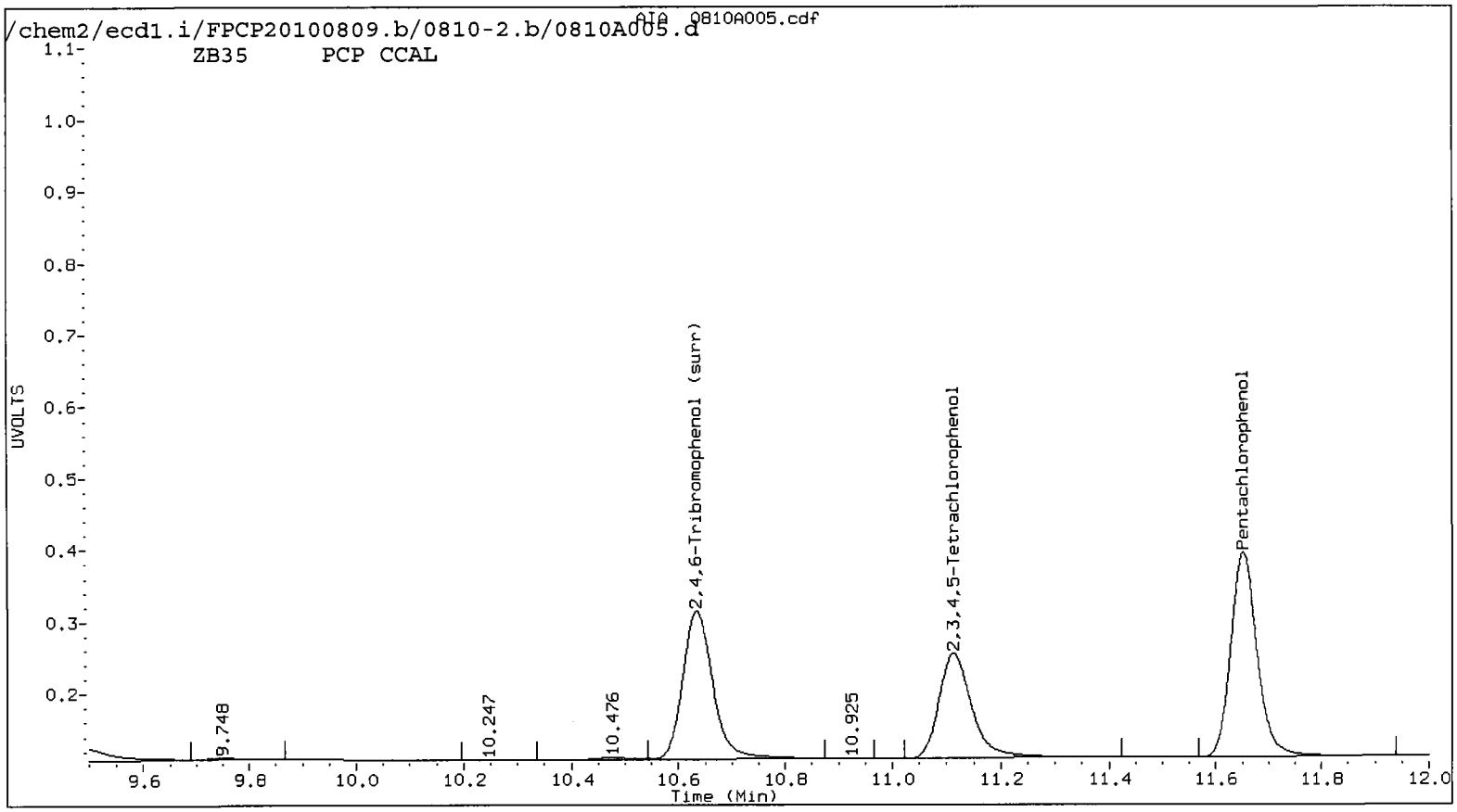
ZB5 PCP CCAL
UVOLTS
Time (Min)
9.629
9.711
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.558
11.880
11.984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ZB35 PCP CCAL
UVOLTS
Time (Min)
9.748
10.247
10.476
2,4,6-Tribromophenol (surr)
10.925
2,3,4,5-Tetrachlorophenol
Pentachlorophenol

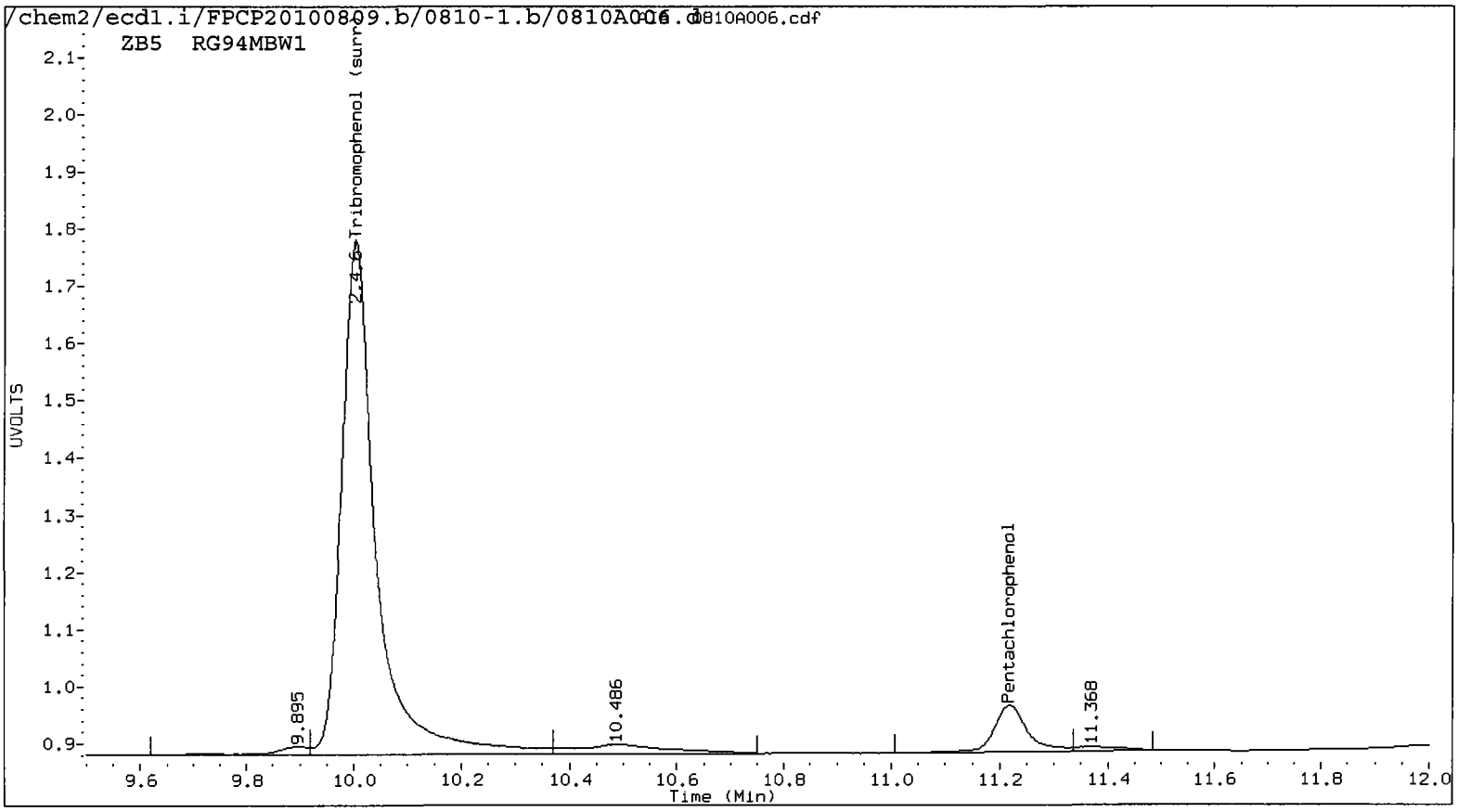
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/12/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A006.d ARI ID: RG94MBW1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A006.d Client ID: RG94MBW1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 20:45
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.218	-0.001	17447	11.653	-0.005	17290	0.9739	0.7530	25.6	Pentachlorophenol
7.259	-0.005	6710	----			0.6977	0.0000	---	2,4,6-Trichlorophenol
----			7.827	-0.037	7985	0.0000	0.6436	---	2,3,6-Trichlorophenol
8.264	0.022	1668	----			0.3305	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.031	0.024	32510	9.285	0.008	1049	2.3048	0.0567	190.4*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
10.003	0.001	200427	10.640	-0.006	260554	15.6	14.0	11.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	62.4	55.8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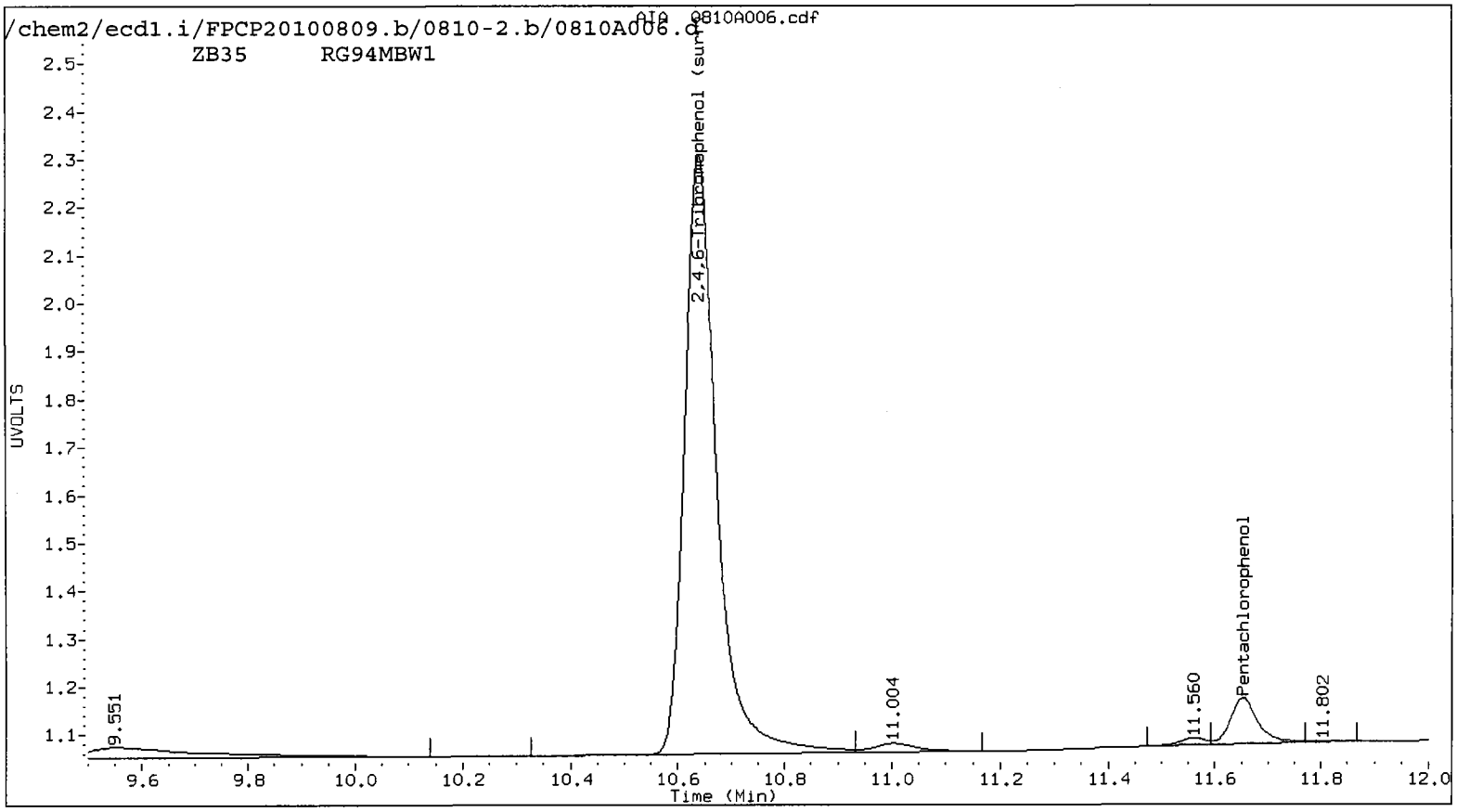
ZB5 RG94MBW1
UVOLTS
2.4,6-Tribromophenol (surr
9.895
10.486
Pentachlorophenol
11.368
Time (Min)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ZB35 RG94MBW1
UVOLTS
9.551
11.004
11.560
Pentachlorophenol
11.802
Time (Min)

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

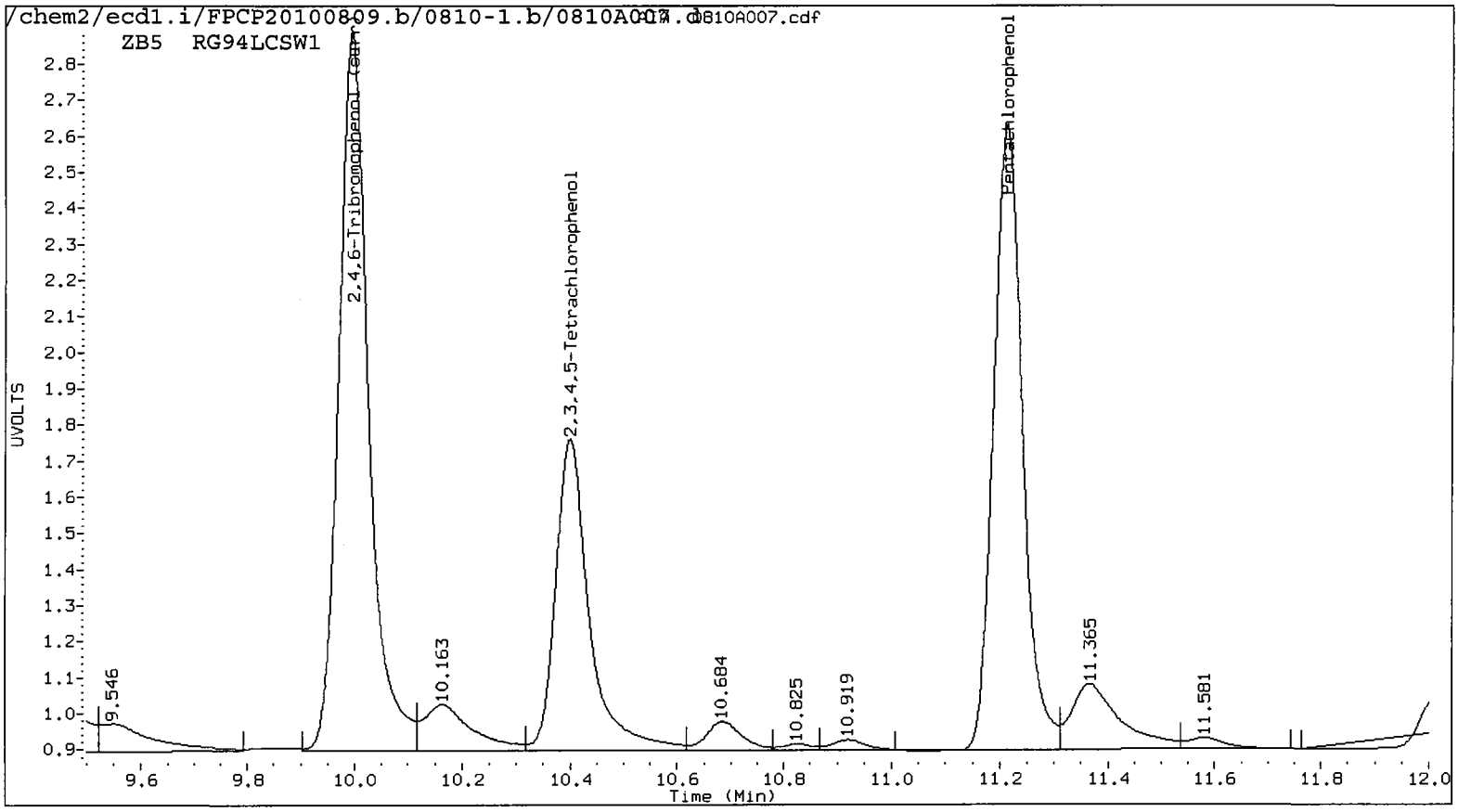
AR 8/12/2010

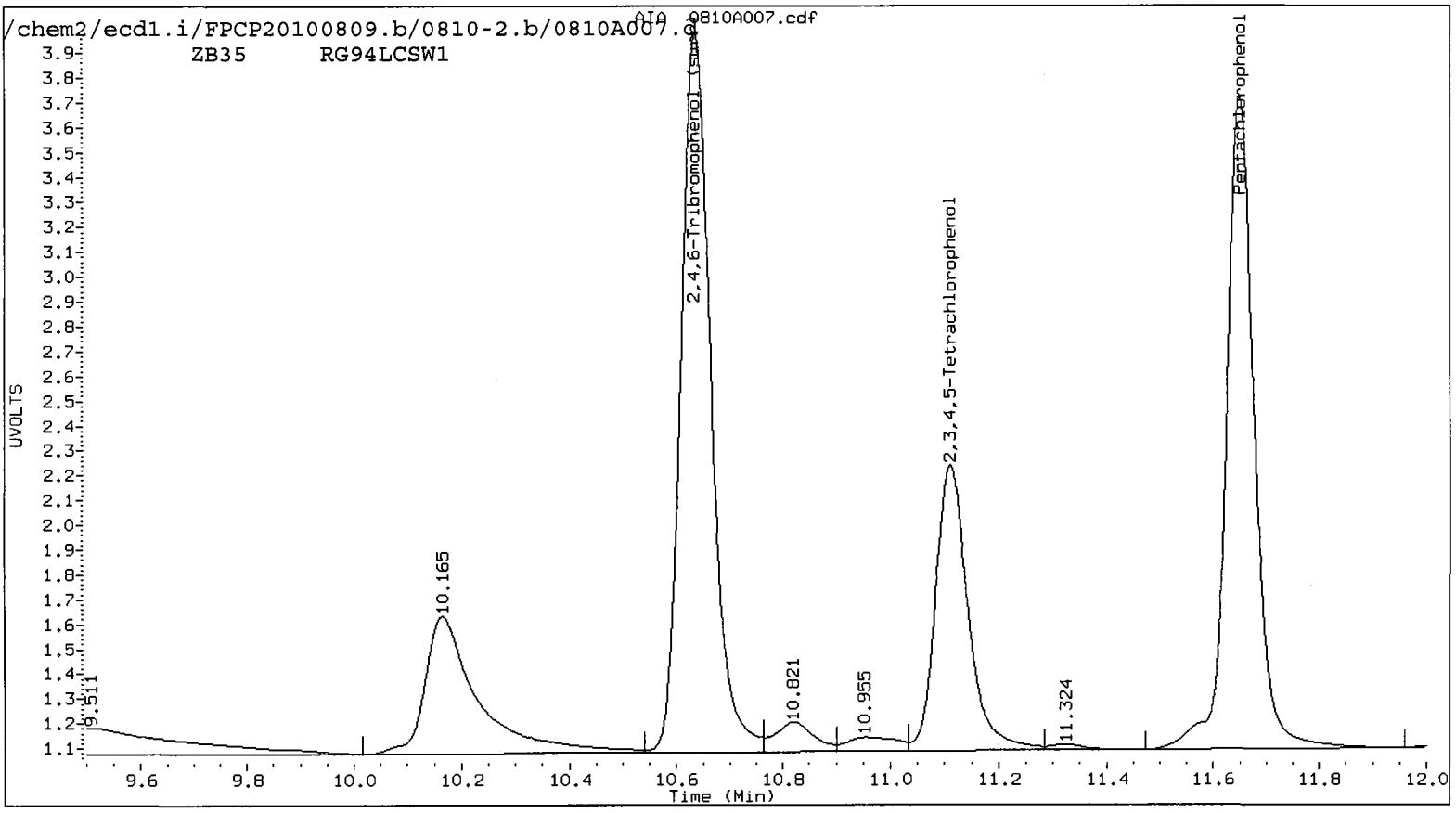
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A007.d ARI ID: RG94LCSW1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A007.d Client ID: RG94LCSW1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 21:05
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.213	-0.006	316214	11.650	-0.008	489017	19.8941	21.2973	6.8	Pentachlorophenol
7.262	-0.002	155969	7.330	-0.003	211992	17.8618	16.9803	5.1	2,4,6-Trichlorophenol
7.617	-0.002	157629	7.859	-0.005	217087	17.3570	17.4950	0.8	2,3,6-Trichlorophenol
8.233	-0.009	80991	8.600	-0.015	94748	16.0458	14.3818	10.9	2,4,5-Trichlorophenol
8.780	-0.012	90263	9.365	-0.015	129311	13.1944	14.5318	9.6	2,3,4-Trichlorophenol
9.002	-0.005	266757	9.266	-0.011	330902	18.9114	17.8723	5.7	2,3,5,6-Tetrachlorophenol
10.400	-0.013	188521	11.111	-0.015	240498	17.3933	16.4830	5.4	2,3,4,5-Tetrachlorophenol
6.890	-0.003	52558	7.160	-0.006	70381	92.6885	102.6640	10.2	2,4-Dichlorophenol
9.995	-0.007	385126	10.635	-0.011	563405	32.0	30.2	6.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	79.6	85.2
2,4,6-Trichlorophenol	71.4	67.9
2,3,6-Trichlorophenol	69.4	70.0
2,4,5-Trichlorophenol	64.2	57.5
2,3,4-Trichlorophenol	52.8	58.1
2,3,5,6-Tetrachlorophenol	75.6	71.5
2,3,4,5-Tetrachlorophenol	69.6	65.9
2,4-Dichlorophenol	37.1	41.1
2,4,6-TBP (surr)	64.1	60.4


/chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A007.cdf
0810A007.cdf
ZB5 RG94LCSW1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.546
10.163
10.684
10.825
10.919
11.365
11.581
Time (Min)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0810A007.cdf
ZB35 RG94LCSW1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.511
10.165
10.821
10.955
11.324
Time (Min)

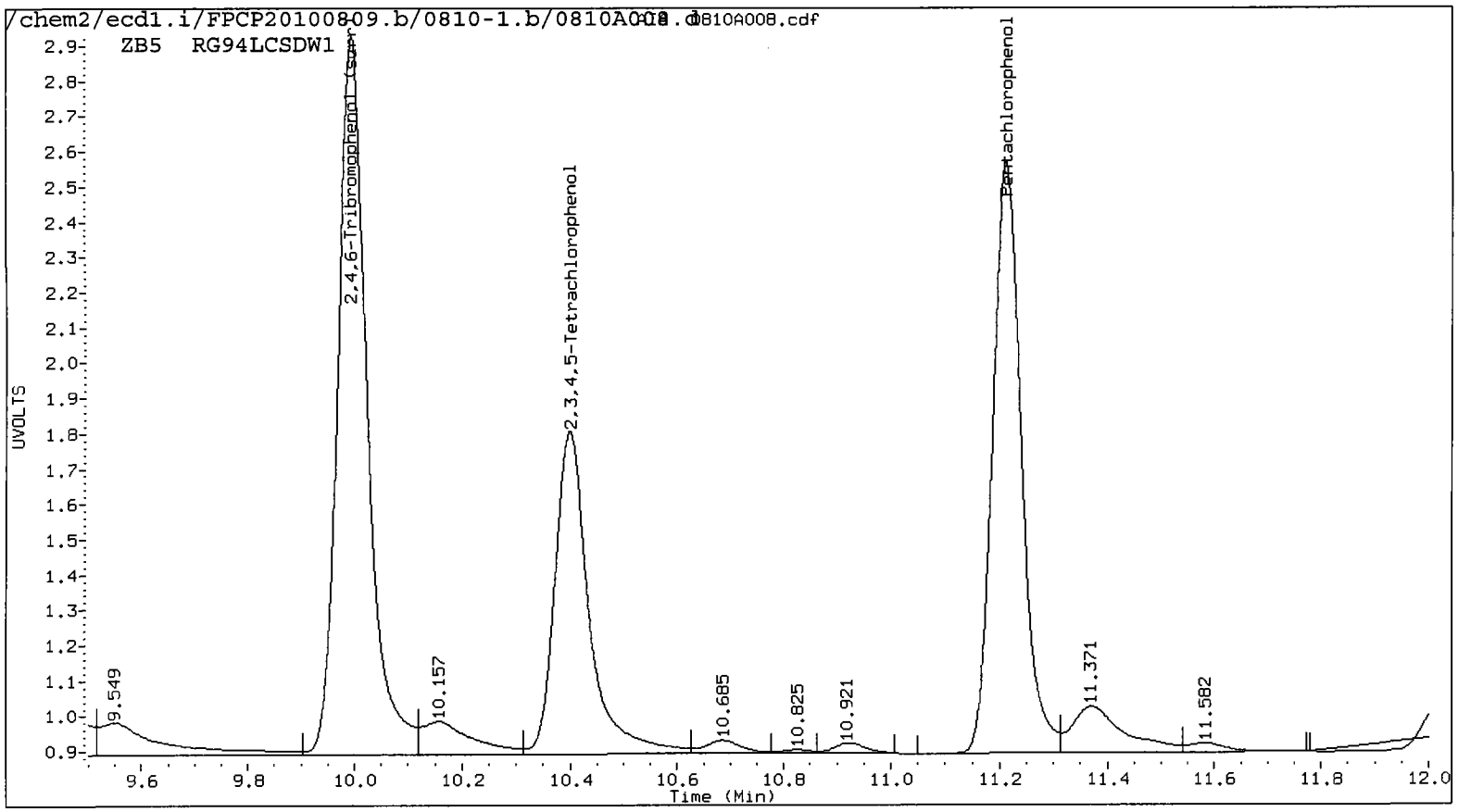
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A008.d ARI ID: RG94LCSDW1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A008.d Client ID: RG94LCSDW1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 21:25
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.212	-0.007	309293	11.649	-0.009	464608	19.4079	20.2343	4.2	Pentachlorophenol
7.261	-0.003	166739	7.329	-0.004	215368	19.2221	17.2507	10.8	2,4,6-Trichlorophenol
7.616	-0.003	158948	7.859	-0.005	224253	17.5134	18.0725	3.1	2,3,6-Trichlorophenol
8.230	-0.012	83040	8.598	-0.017	102369	16.4518	15.6433	5.0	2,4,5-Trichlorophenol
8.779	-0.013	96334	9.363	-0.017	128324	14.0817	14.4118	2.3	2,3,4-Trichlorophenol
9.000	-0.007	272947	9.264	-0.013	330944	19.3502	17.8745	7.9	2,3,5,6-Tetrachlorophenol
10.399	-0.014	202233	11.109	-0.017	257548	18.8483	17.6515	6.6	2,3,4,5-Tetrachlorophenol
6.890	-0.003	56884	7.159	-0.007	74514	101.3174	109.2734	7.6	2,4-Dichlorophenol
9.994	-0.008	390410	10.633	-0.013	588764	32.5	31.5	3.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	77.6	80.9
2,4,6-Trichlorophenol	76.9	69.0
2,3,6-Trichlorophenol	70.1	72.3
2,4,5-Trichlorophenol	65.8	62.6
2,3,4-Trichlorophenol	56.3	57.6
2,3,5,6-Tetrachlorophenol	77.4	71.5
2,3,4,5-Tetrachlorophenol	75.4	70.6
2,4-Dichlorophenol	40.5	43.7
2,4,6-TBP (surr)	65.1	63.1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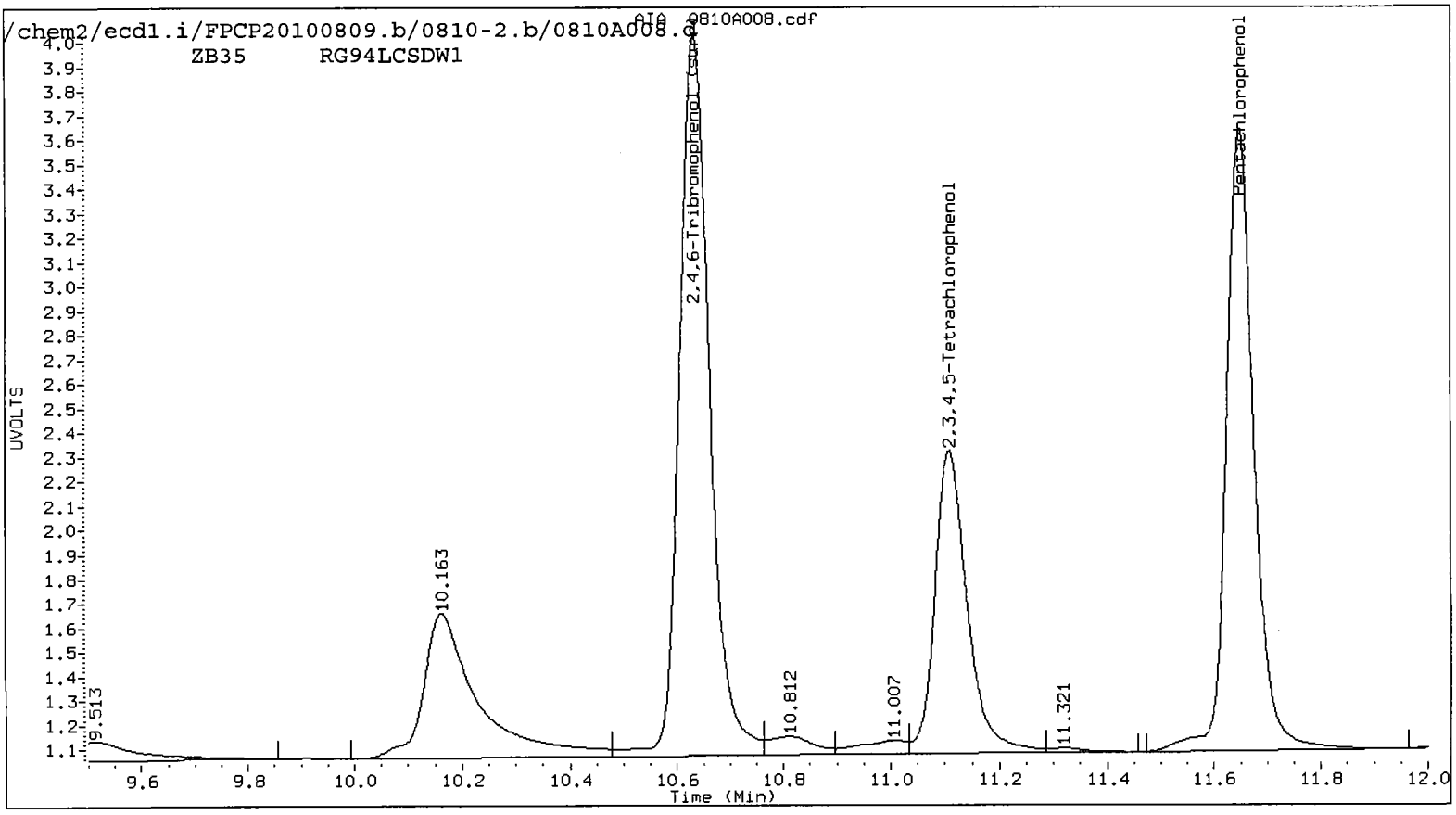
ZB5 RG94LCSDW1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.549
10.157
10.685
10.825
10.921
11.371
11.582
Time (Min)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ZB35 RG94LCSDW1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.513
10.163
10.812
11.007
11.321
Time (Min)

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

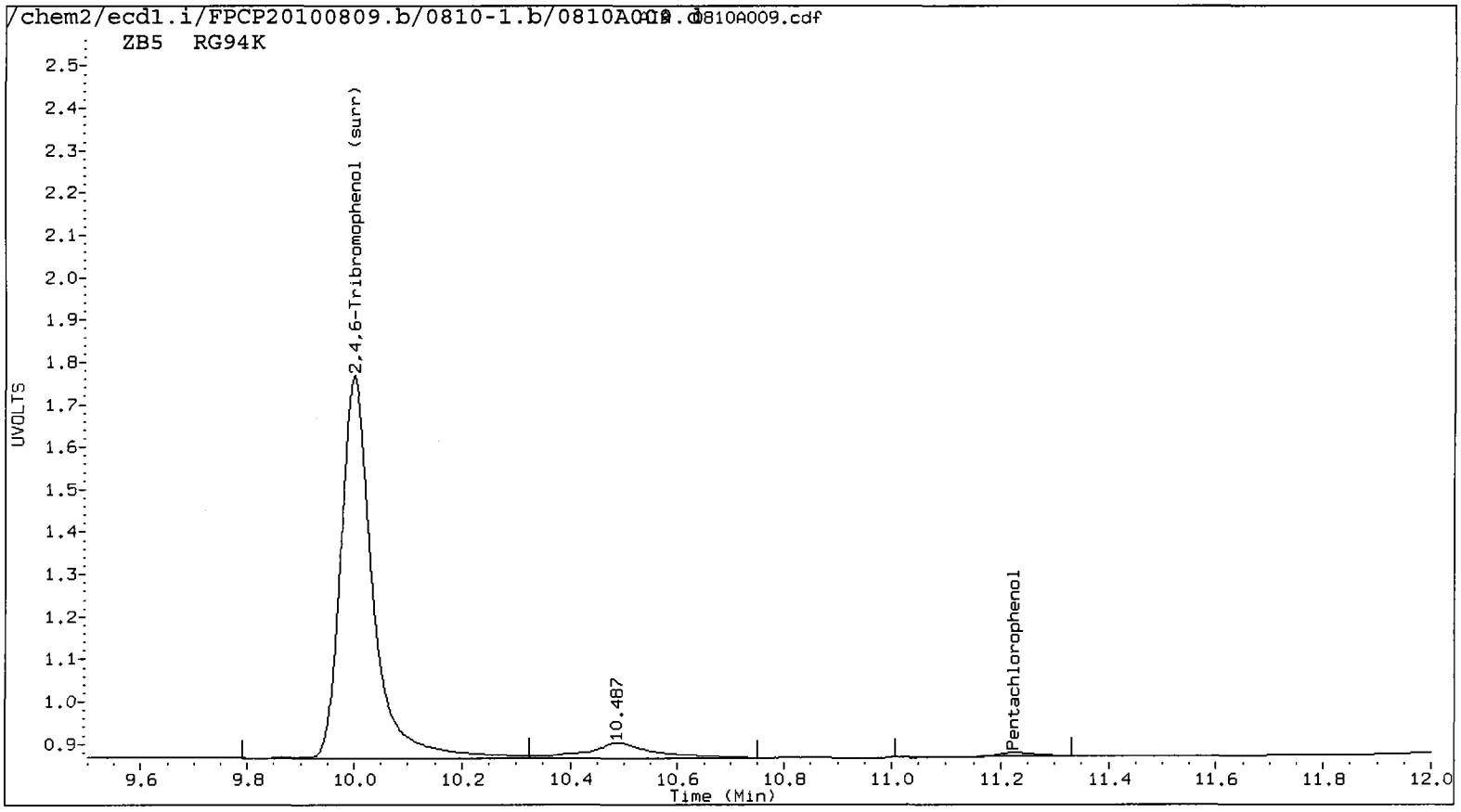
AR 8/12/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A009.d ARI ID: RG94K
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A009.d Client ID: MW12-ER-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 21:45
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.224	0.005	2025	11.707	0.049	2188	0.1123	0.0953	16.4	Pentachlorophenol
7.235	-0.029	15801	----			1.6531	0.0000	---	2,4,6-Trichlorophenol
7.648	0.029	3529	7.806	-0.058	17470	0.3596	1.4080	118.6*	2,3,6-Trichlorophenol
8.262	0.020	1406	----			0.2786	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.033	0.026	15503	9.264	-0.013	634	1.0991	0.0343	187.9*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
9.999	-0.003	187585	10.637	-0.009	268435	14.5	14.4	1.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	58.1	57.5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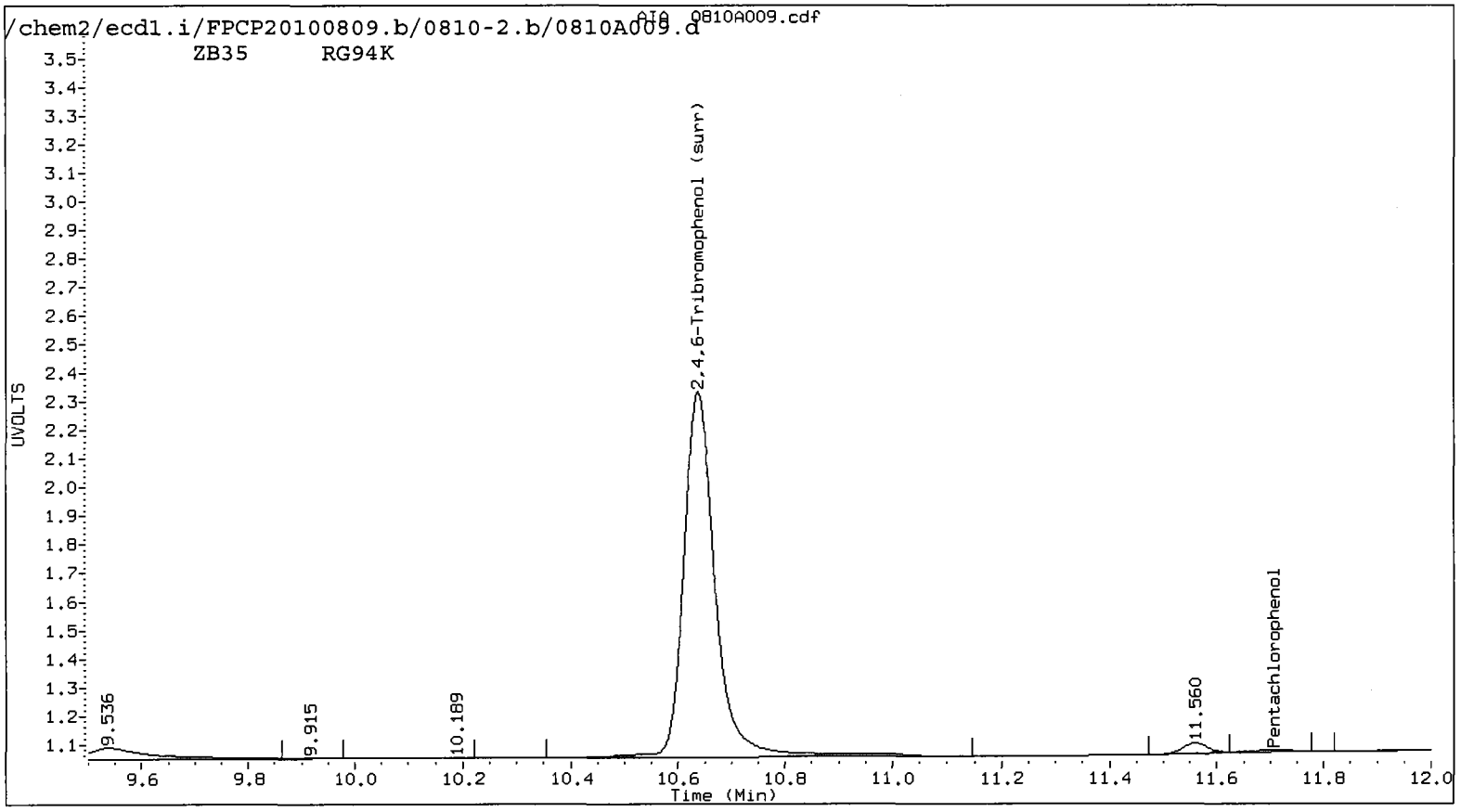
ZB5 RG94K
2,4,6-Tribromophenol (surr)
10.487
Pentachlorophenol
UVOLTS
Time (Min)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ZB35 RG94K
2,4,6-Tribromophenol (surr)
9.536
9.915
10.189
11.560
Pentachlorophenol
UVOLTS
Time (Min)

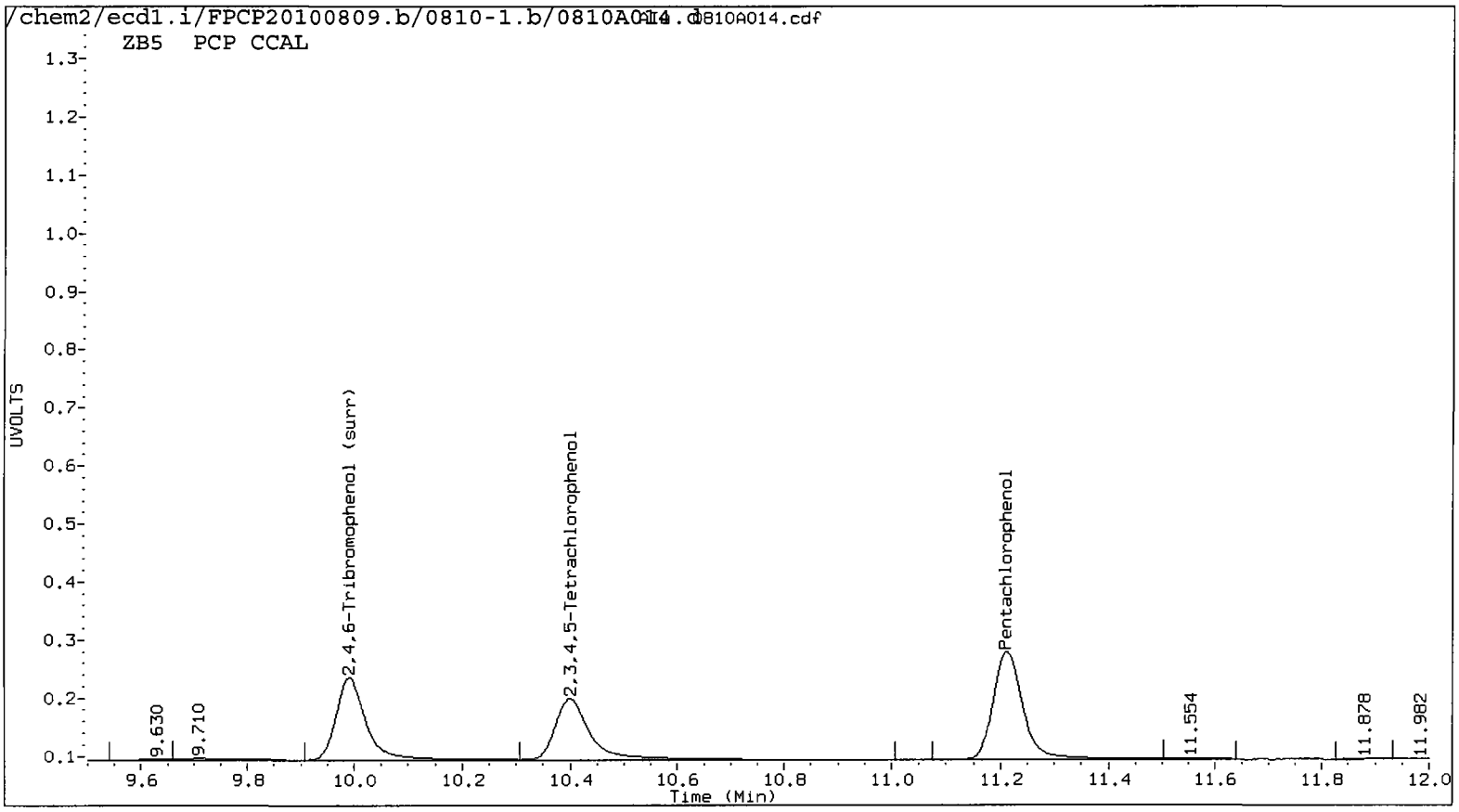
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A014.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A014.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 23:25
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.211	-0.008	355683	11.649	-0.008	508172	22.7107	22.1316	2.6	Pentachlorophenol
7.261	-0.003	190516	7.329	-0.004	294648	22.2833	23.6010	5.7	2,4,6-Trichlorophenol
7.615	-0.004	188940	7.858	-0.006	278420	21.1201	22.4378	6.1	2,3,6-Trichlorophenol
8.223	-0.019	112866	8.594	-0.021	145864	22.3608	23.1416	3.4	2,4,5-Trichlorophenol
8.772	-0.020	149721	9.360	-0.020	195990	21.8856	22.9497	4.7	2,3,4-Trichlorophenol
8.996	-0.011	305990	9.262	-0.015	406608	21.6928	21.9612	1.2	2,3,5,6-Tetrachlorophenol
10.399	-0.014	244255	11.111	-0.015	316083	23.4673	21.6634	8.0	2,3,4,5-Tetrachlorophenol
6.887	-0.006	111123	7.157	-0.009	144077	222.4107	230.2037	3.4	2,4-Dichlorophenol
9.991	-0.011	281474	10.633	-0.013	409441	22.6	21.9	2.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	90.8	88.5
2,4,6-Trichlorophenol	89.1	94.4
2,3,6-Trichlorophenol	84.5	89.8
2,4,5-Trichlorophenol	89.4	92.6
2,3,4-Trichlorophenol	87.5	91.8
2,3,5,6-Tetrachlorophenol	86.8	87.8
2,3,4,5-Tetrachlorophenol	93.9	86.7
2,4-Dichlorophenol	89.0	92.1
2,4,6-TBP (surr)	90.3	87.7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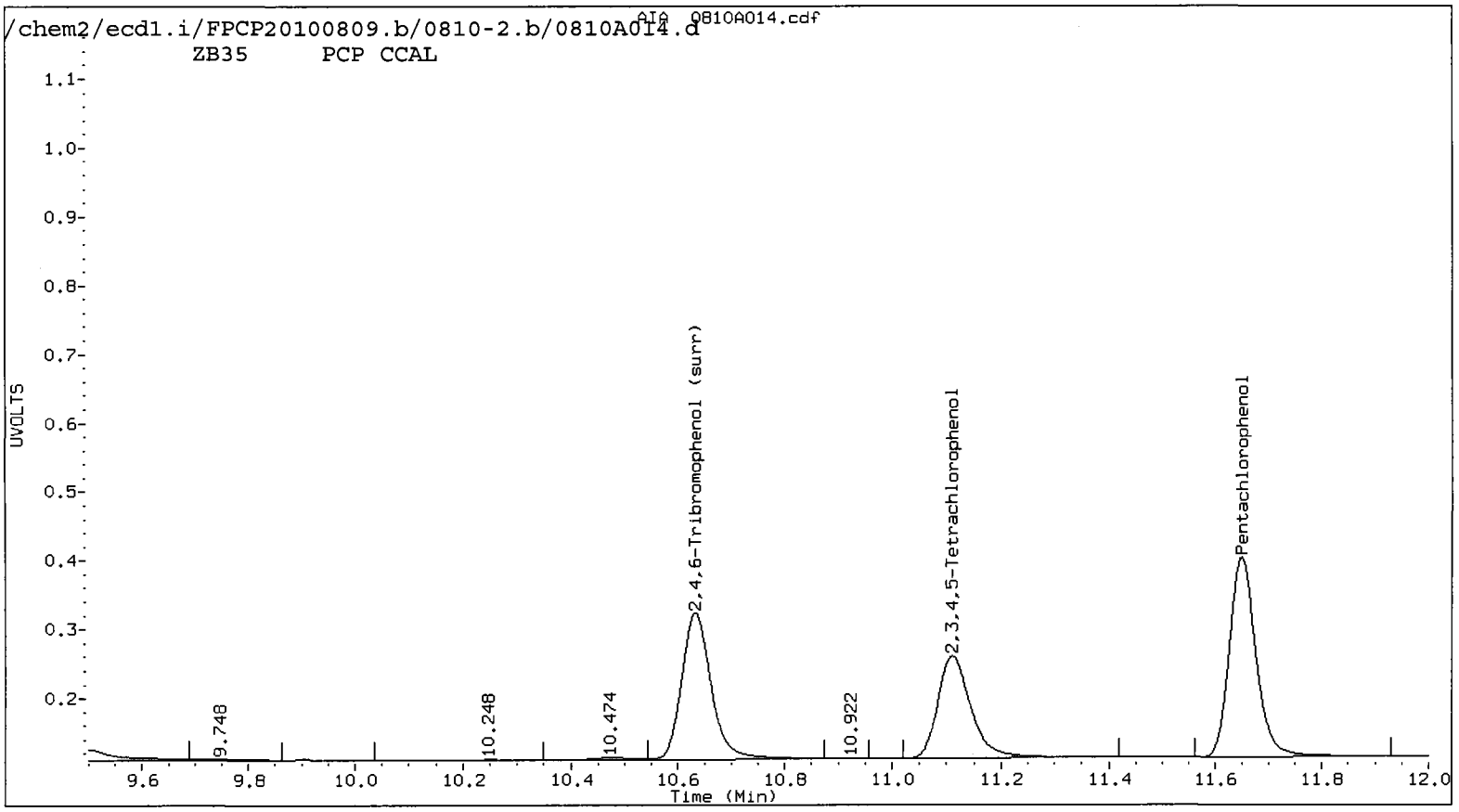
AIa 0810A014.cdf
ZB5 PCP CCAL
UVOLTS
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
9.630
9.710
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.554
11.878
11.982
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)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AIa 0810A014.cdf
ZB35 PCP CCAL
UVOLTS
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
9.748
10.248
10.474
2,4,6-Tribromophenol (surr)
10.922
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)

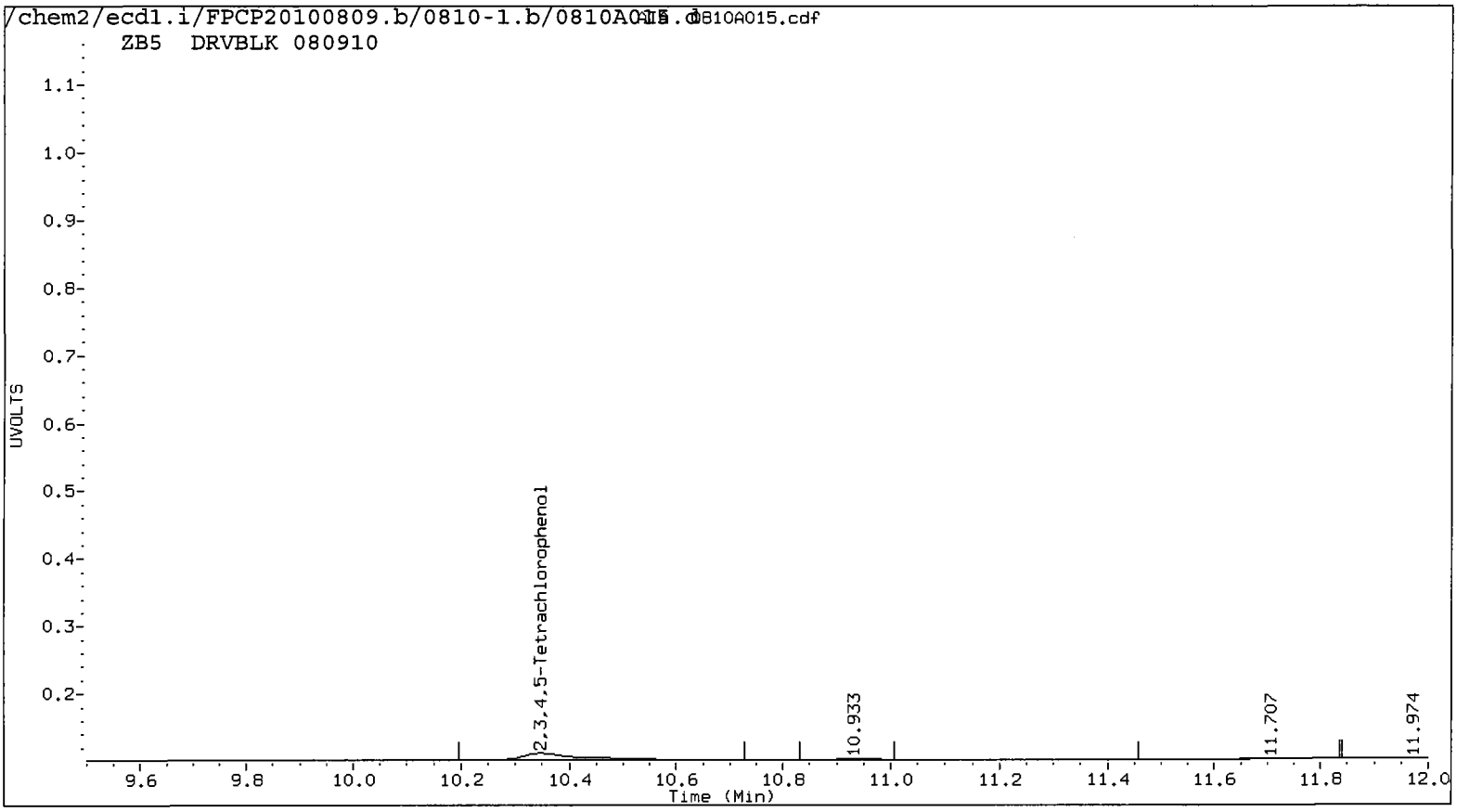
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0810-1.b/0810A015.d ARI ID: DRVBLK 080910
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0810-2.b/0810A015.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 10-AUG-2010 23:45
Compound Sublist: all Report Date: 08/12/2010 20:01
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
----			11.680	0.022	27482	0.0000	1.1969	---	Pentachlorophenol
7.264	0.000	6084	7.293	-0.040	8419	0.6323	0.6744	6.4	2,4,6-Trichlorophenol
7.644	0.025	2291	----			0.2333	0.0000	---	2,3,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,4,5-Trichlorophenol
8.729	-0.063	3749	----			0.5481	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
10.347	-0.066	34934	----			2.8558	0.0000	---	2,3,4,5-Tetrachlorophenol
6.940	0.047	31369	----			52.6209	0.0000	---	2,4-Dichlorophenol
----			----			0.0	0.0	---	2,4,6-Tribromophenol (surr

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	0.0	0.0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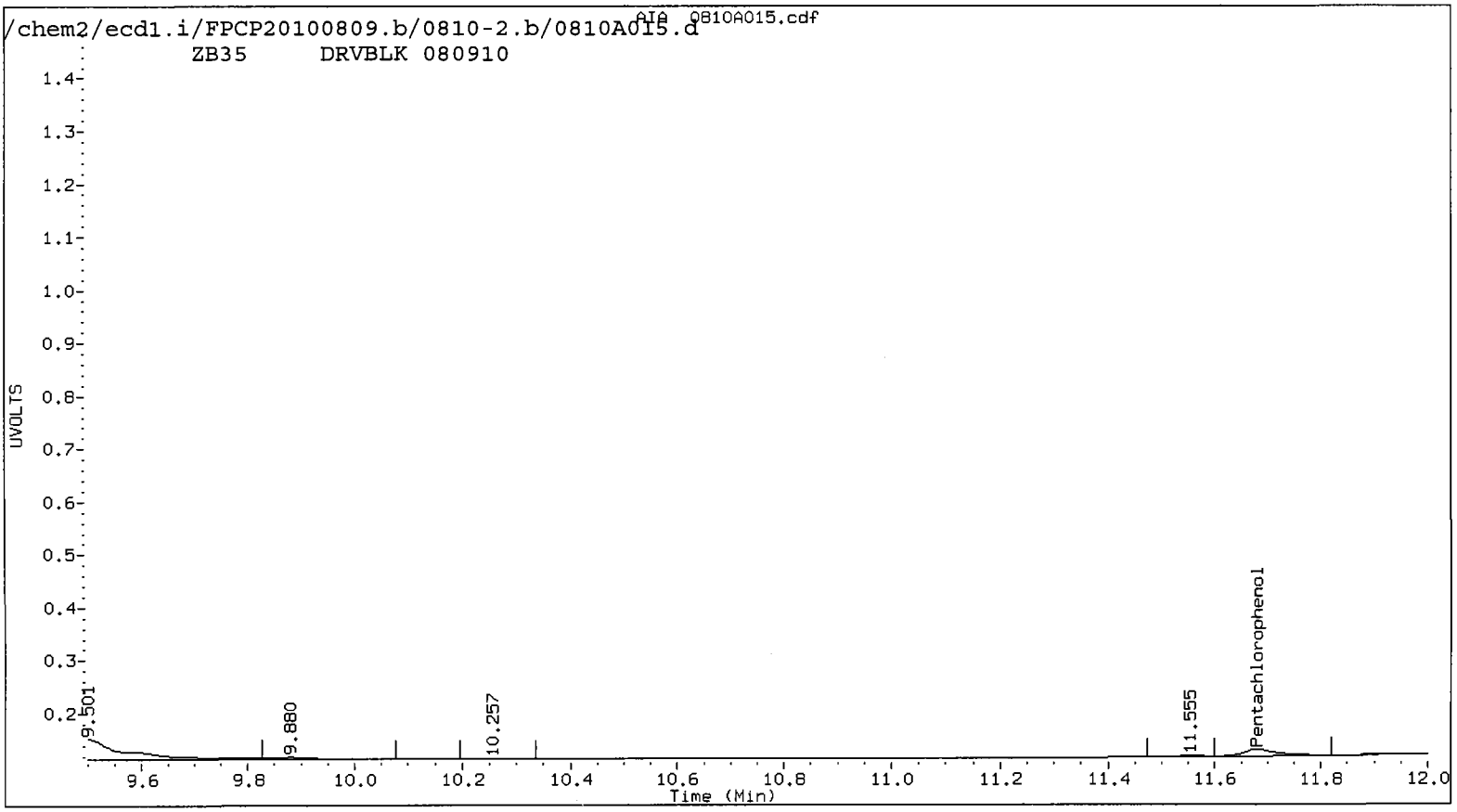
AIA 0810A015.cdf
ZB5 DRVBLK 080910
UVOLTS
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
2,3,4,5-Tetrachlorophenol
10.933
11.707
11.974
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)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AIA 0810A015.cdf
ZB35 DRVBLK 080910
UVOLTS
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
9.501
9.880
10.257
11.555
Pentachlorophenol
9.6
9.8
10.0
10.2
10.4
10.6
10.8
11.0
11.2
11.4
11.6
11.8
12.0
Time (Min)

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 8/20/2010 Analysis: Cl.Phenols/Herbicides Analyst: AR

GC Program: PCPFAST.M & Column No: 150608 Column Type: ZBS/35

Instrument Tune (.U or .CT.): HERB.M EM Voltage: NA

Calibration File: HERB20100802.b & FPCP20100809.b Curve Date: 8/2/2010 & 8/9/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-2 & 1739-1	1703-2 & 1731-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0820-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	20-AUG-2010 17:31	0820A012.d	1	PCPCCAL	
2	20-AUG-2010 17:51	0820A013.d	1	RG58MBS1	RG58MBS1
3	20-AUG-2010 18:11	0820A014.d	1	RG58LCSS1	RG58LCSS1
4	20-AUG-2010 18:31	0820A015.d	1	RG58IMSD	PSB23-2-4-07291 MSD
5	20-AUG-2010 18:51	0820A016.d	1	RG58H	PSB23-1.5-2-072910
6	20-AUG-2010 19:11	0820A017.d	1	RG58O	PSB24-2-4-072910
7	20-AUG-2010 19:31	0820A018.d	1	PCPCCAL	
8	20-AUG-2010 19:51	0820A019.d	1	RG58MBS1	RG58MBS1
9	20-AUG-2010 20:11	0820A020.d	1	RG58LCSS1	RG58LCSS1
10	20-AUG-2010 20:31	0820A021.d	1	RG58IMSD	PSB23-2-4-07291 MSD
11	20-AUG-2010 20:51	0820A022.d	1	RG58H	PSB23-1.5-2-072910
12	20-AUG-2010 21:11	0820A023.d	1	RG58O	PSB24-2-4-072910
13	20-AUG-2010 21:31	0820A024.d	1	RG58P	PSB24-2-4-072910-D
14	20-AUG-2010 21:51	0820A025.d	1	RG58Q	PSB24-4-6-072910
15	20-AUG-2010 22:11	0820A026.d	1	DRVBLK 082010	
16	20-AUG-2010 22:31	0820A027.d	1	PCP	
17	20-AUG-2010 22:51	0820A028.d	1	PCPCCAL	
18	20-AUG-2010 23:11	0820A029.d	1	RG94MBS1	RG94MBS1
19	20-AUG-2010 23:31	0820A030.d	1	RG94LCSS1	RG94LCSS1
20	20-AUG-2010 23:51	0820A031.d	1	RG94A	MW14-15-16.5-080210
21	21-AUG-2010 00:11	0820A032.d	1	RG94B	MW14-22.5-24-080210
22	21-AUG-2010 00:31	0820A033.d	1	RG94C	MW13-10-11.5-080210
23	21-AUG-2010 00:51	0820A034.d	1	RG94D	MW13-14-14.5-080210
24	21-AUG-2010 01:11	0820A035.d	1	RG94E	MW13-18.5-19.5-0802
25	21-AUG-2010 01:31	0820A036.d	1	RG94F	MW13-18.5-19.5-0802
26	21-AUG-2010 01:51	0820A037.d	1	RG94G	MW12-5.5-7.5-080210
27	21-AUG-2010 02:11	0820A038.d	1	RG94H	MW12-8-9.5-080210
28	21-AUG-2010 02:31	0820A039.d	1	PCP	
29	21-AUG-2010 02:51	0820A040.d	1	PCPCCAL	
30	21-AUG-2010 03:11	0820A041.d	1	RG94HMS	MW12-8-9.5-0802 MS
31	21-AUG-2010 03:31	0820A042.d	1	RG94HMSD	MW12-8-9.5-0802 MSD
32	21-AUG-2010 03:51	0820A043.d	1	RG94I	MW12-10-11.5-080210
33	21-AUG-2010 04:11	0820A044.d	1	RG94J	MW12-17.5-19-080210
34	21-AUG-2010 04:31	0820A045.d	1	PCP	
35	21-AUG-2010 04:51	0820A046.d	1	PCPCCAL	

Maintenance / Comments

AR 8/21/2010

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG94 Client ID: Floyd-Snider

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): 10g/25mL FV

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 8/9/2010 Analysis Start: 8/20/2010

Endrin/DDT Breakdown <15%? YES / NO / NA Method Blank In Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO LCS/LCSD Recovery In Control? YES / NO

CCal Meets RF & %RSD Criteria? YES / NO Surrogate Recovery In Control? YES / NO

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA
VDP

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

-Samps A, E & F sent back for re-ext., surr out low.

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/21/2010

Reviewer: MW **Date:** 8/23/10

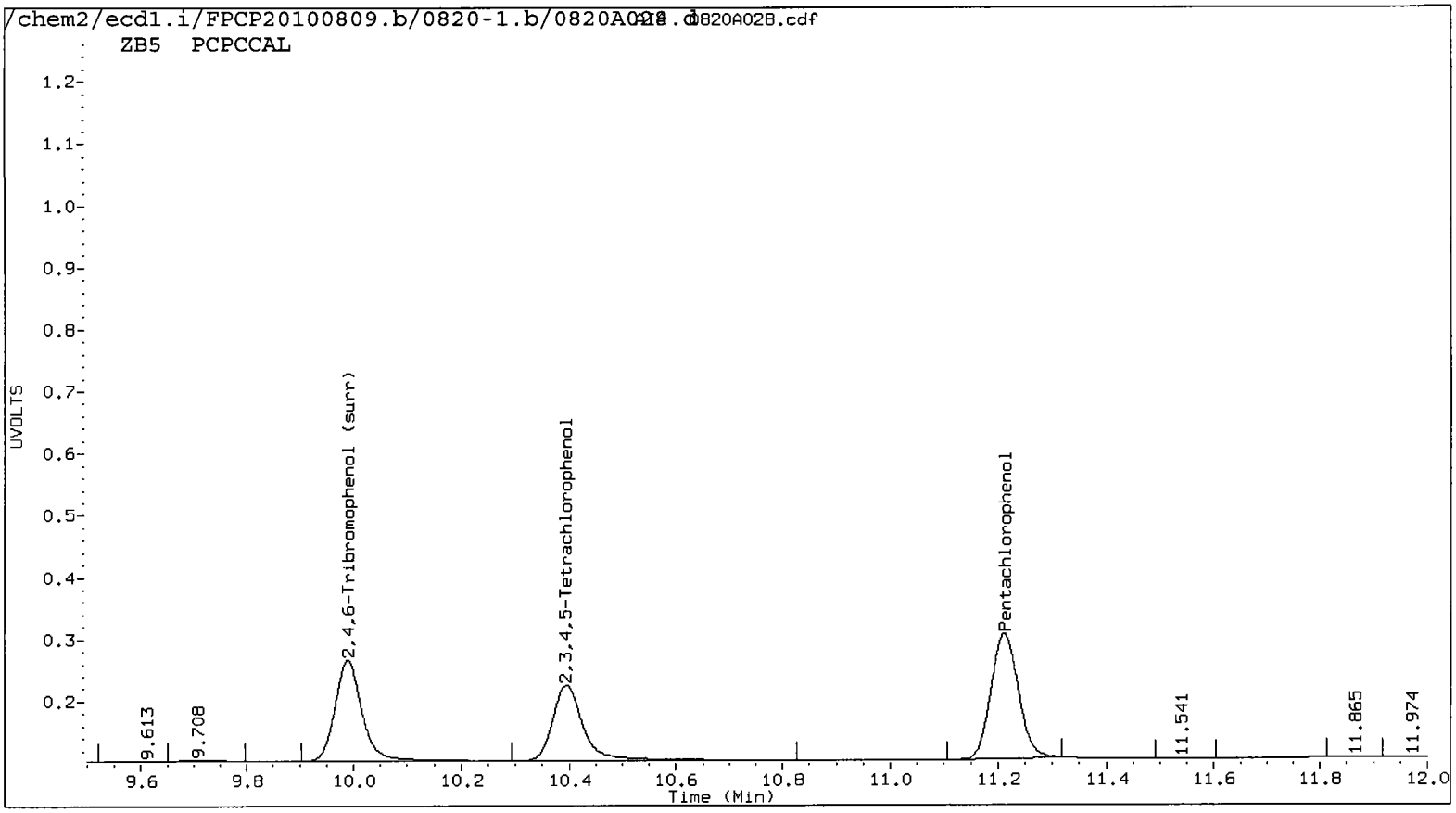
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A028.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A028.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 20-AUG-2010 22:51
Compound Sublist: all Report Date: 08/21/2010 13:35
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.212	-0.007	348754	11.649	-0.009	509381	22.2109	22.1842	0.1	Pentachlorophenol
7.262	-0.002	212714	7.330	-0.003	289007	25.2135	23.1492	8.5	2,4,6-Trichlorophenol
7.615	-0.004	209638	7.858	-0.006	277542	23.6652	22.3670	5.6	2,3,6-Trichlorophenol
8.217	-0.025	120193	8.591	-0.024	153656	23.8123	24.5386	3.0	2,4,5-Trichlorophenol
8.766	-0.026	168639	9.355	-0.025	197656	24.6509	23.1680	6.2	2,3,4-Trichlorophenol
8.995	-0.012	325795	9.261	-0.016	431564	23.0969	23.3091	0.9	2,3,5,6-Tetrachlorophenol
10.395	-0.018	241025	11.107	-0.019	321123	23.1037	22.0087	4.9	2,3,4,5-Tetrachlorophenol
6.887	-0.006	112269	7.157	-0.009	143419	225.2289	228.9755	1.6	2,4-Dichlorophenol
9.989	-0.013	289063	10.630	-0.016	427582	23.2	22.9	1.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	88.8	88.7
2,4,6-Trichlorophenol	100.9	92.6
2,3,6-Trichlorophenol	94.7	89.5
2,4,5-Trichlorophenol	95.2	98.2
2,3,4-Trichlorophenol	98.6	92.7
2,3,5,6-Tetrachlorophenol	92.4	93.2
2,3,4,5-Tetrachlorophenol	92.4	88.0
2,4-Dichlorophenol	90.1	91.6
2,4,6-TBP (surr)	93.0	91.6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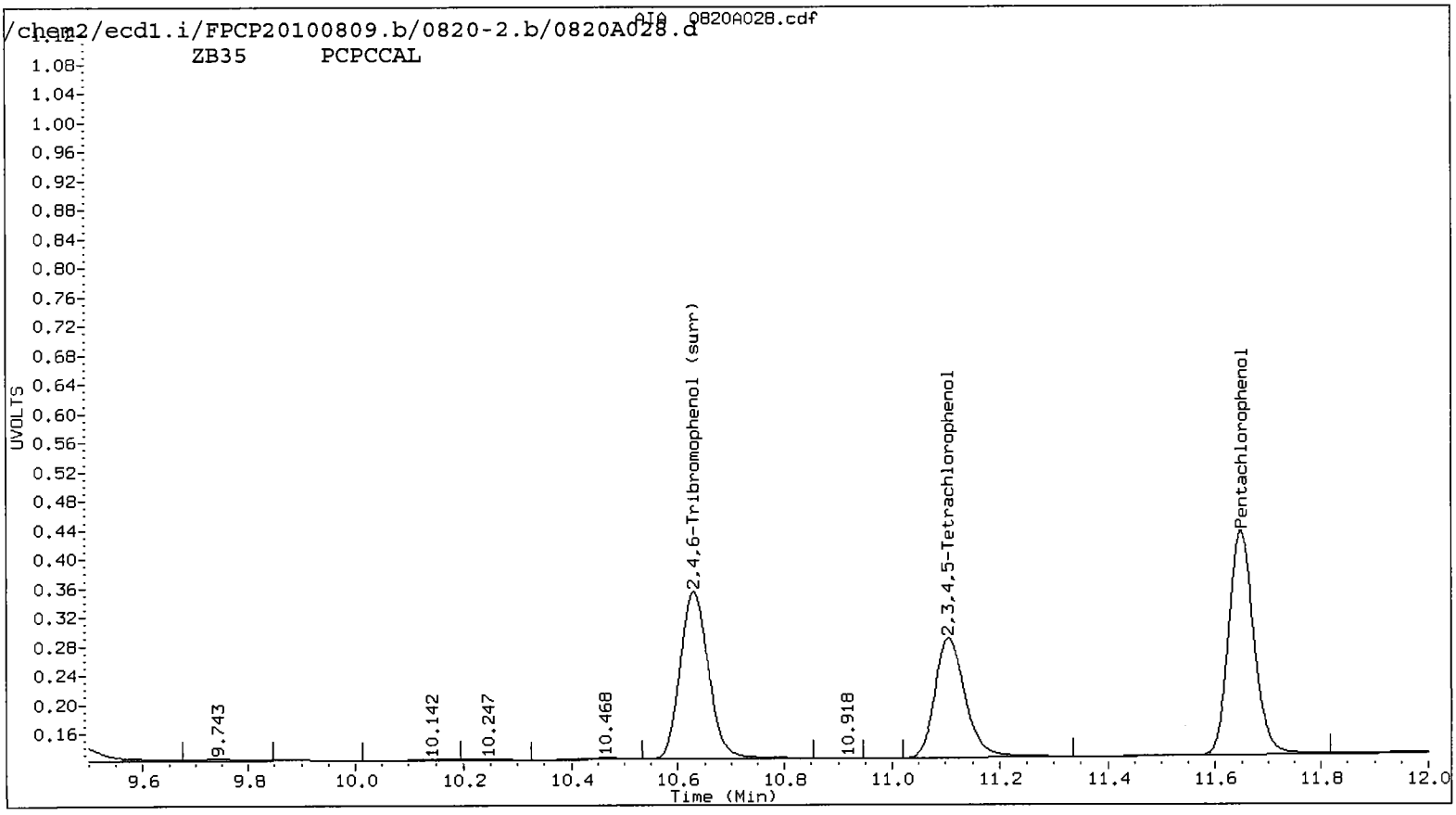
0820A028.cdf
ZB5 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.613
9.708
11.541
11.865
11.974
Time (Min)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0820A028.cdf
ZB35 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.743
10.142
10.247
10.468
10.918
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A028.d

Date : 20-AUG-2010 22:51

Client ID:

Instrument: ecd1.i

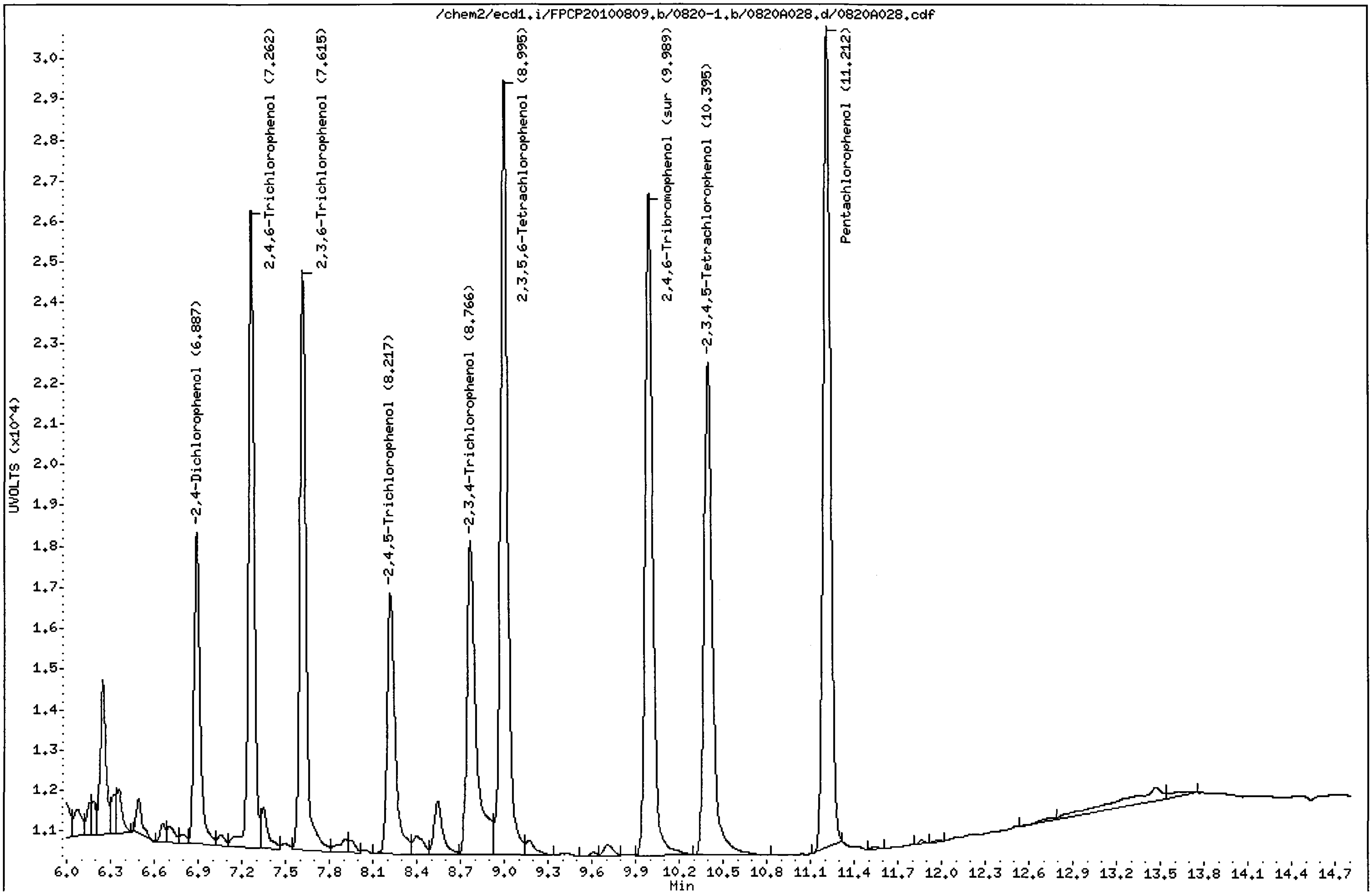
Sample Info: PCPCCAL

Purge Volume: 2.0

Operator: ar

Column phase: ZB5

Column diameter: 0.53



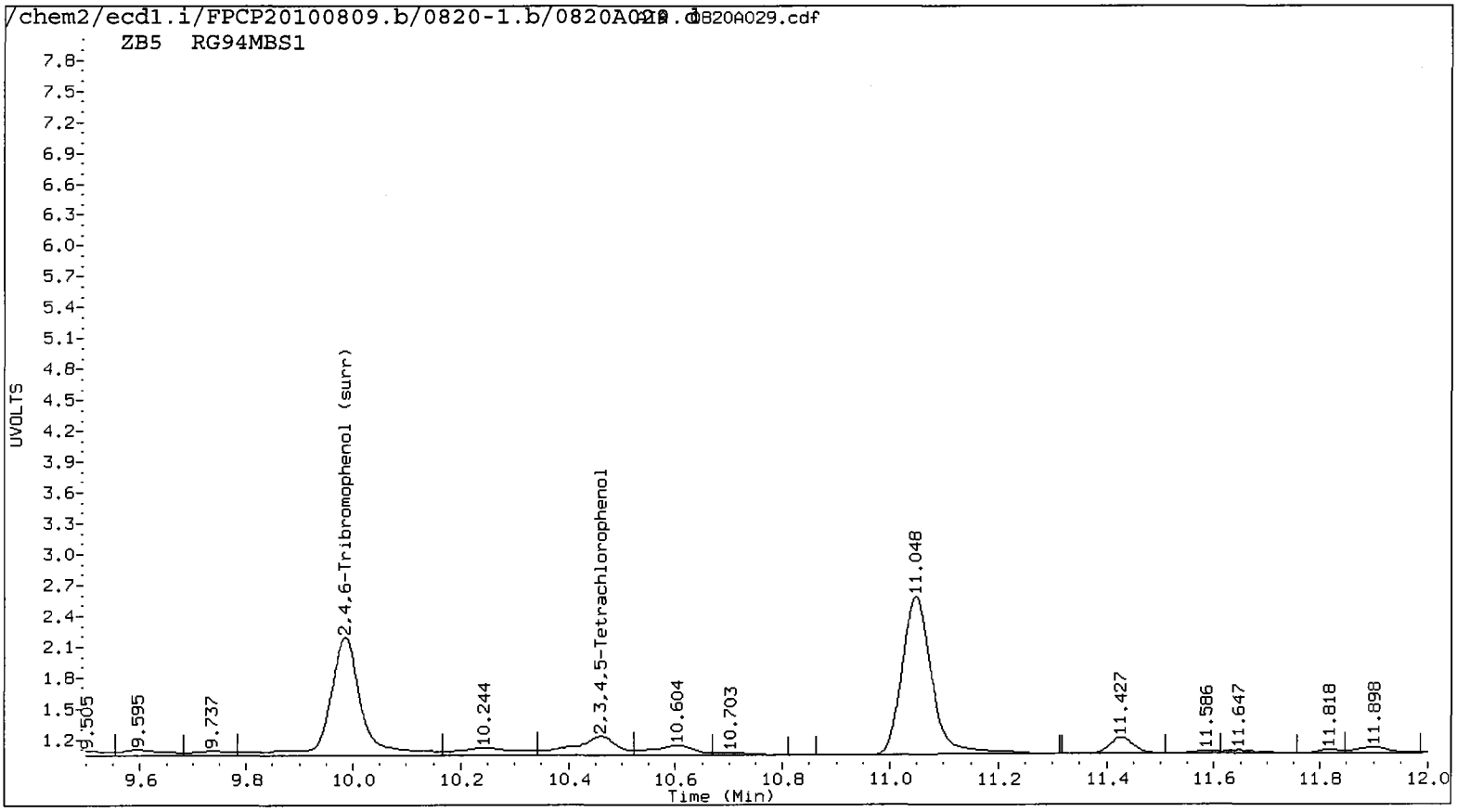
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A029.d ARI ID: RG94MBS1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A029.d Client ID: RG94MBS1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 20-AUG-2010 23:11
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
----			11.651	-0.007	9119	0.0000	0.3972	---	Pentachlorophenol
7.286	0.022	19705	7.370	0.037	40328	2.0670	3.2303	43.9*	2,4,6-Trichlorophenol
7.609	-0.010	7500	7.843	-0.021	16806	0.7659	1.3545	55.5*	2,3,6-Trichlorophenol
8.290	0.048	14977	8.595	-0.020	2540	2.9674	0.3541	157.4*	2,4,5-Trichlorophenol
8.752	-0.040	2369	9.374	-0.006	13255	0.3464	1.3807	119.8*	2,3,4-Trichlorophenol
9.012	0.005	19106	9.254	-0.023	38885	1.3545	2.1002	43.2*	2,3,5,6-Tetrachlorophenol
10.459	0.046	50824	----			4.2100	0.0000	---	2,3,4,5-Tetrachlorophenol
6.901	0.008	18832	7.161	-0.005	9775	30.6315	13.1413	79.9*	2,4-Dichlorophenol
9.985	-0.017	239416	10.628	-0.018	310949	18.9	16.7	12.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	75.6	66.6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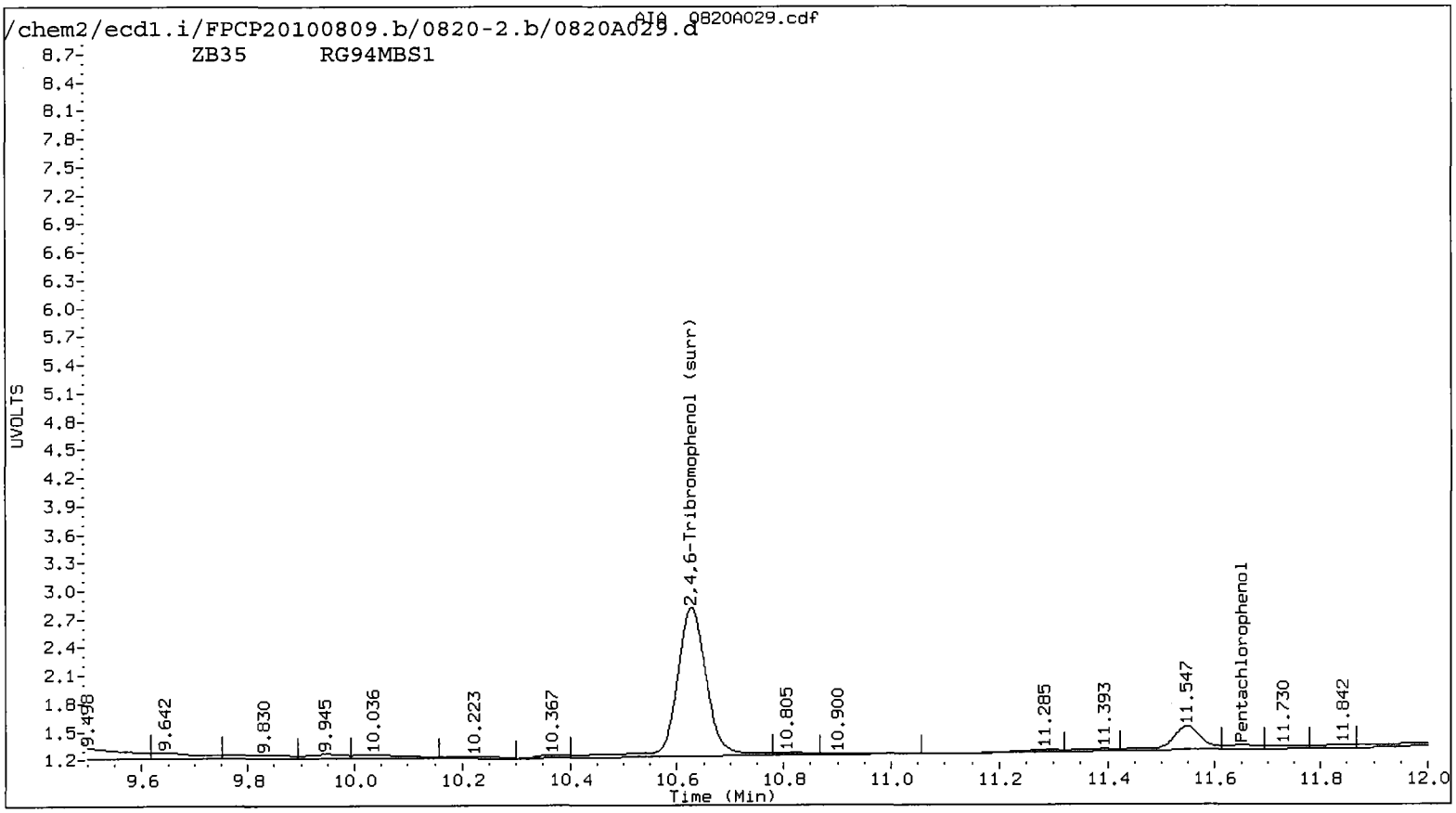
0820A029.cdf
ZB5 RG94MBS1
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
9.505
9.595
9.737
10.244
10.604
10.703
11.048
11.427
11.586
11.647
11.818
11.898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0820A029.cdf
ZB35 RG94MBS1
UVOLTS
Time (Min)
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.498
9.642
9.830
9.945
10.036
10.223
10.367
10.805
10.900
11.285
11.393
11.547
11.730
11.842

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A029.d

Date : 20-AUG-2010 23:11

Client ID: RG94MBS1

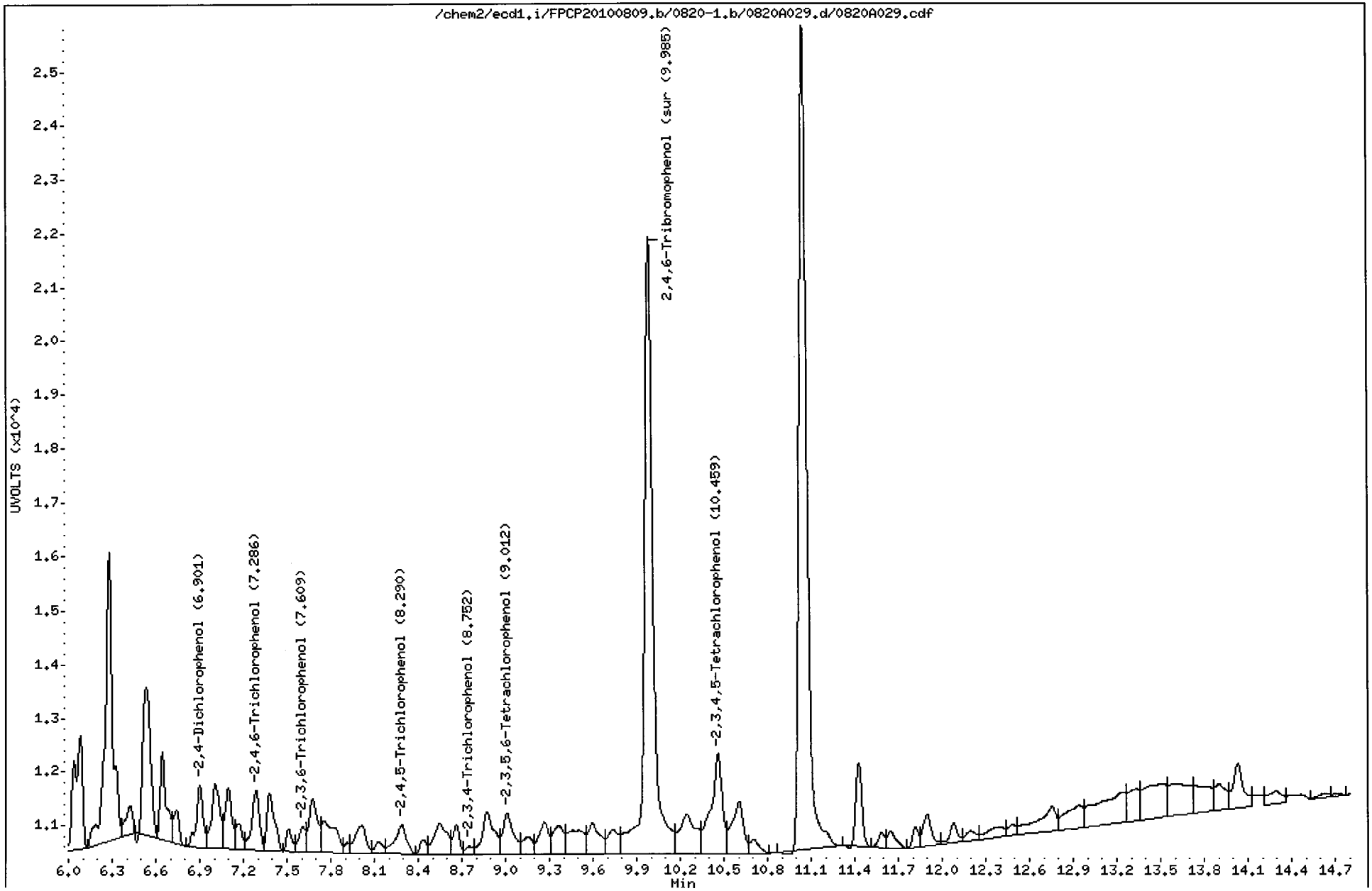
Sample Info: RG94MBS1

Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



RG94 : 01432

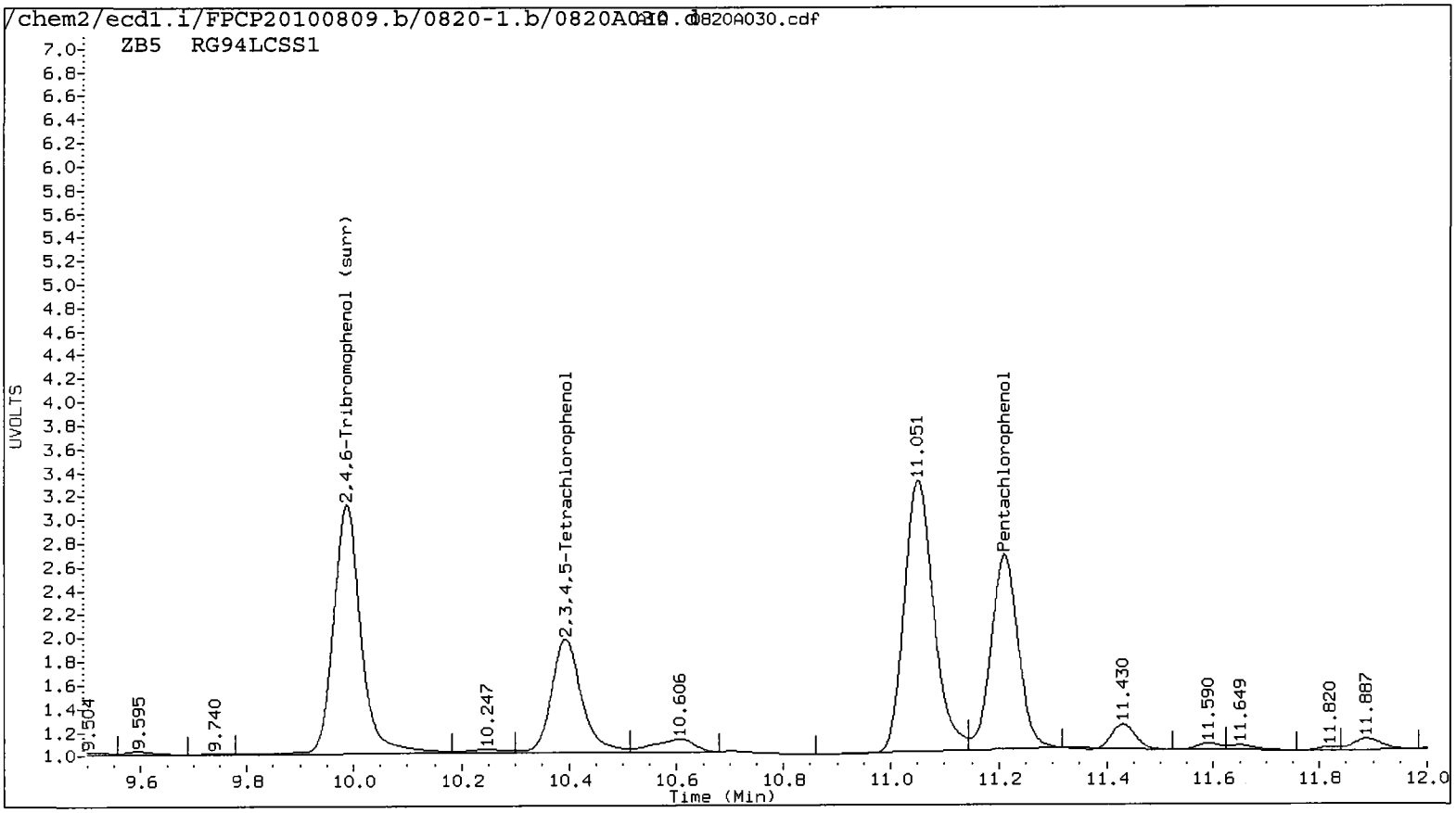
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A030.d ARI ID: RG94LCSS1
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A030.d Client ID: RG94LCSS1
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 20-AUG-2010 23:31
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.211	-0.008	286435	11.648	-0.010	426816	17.8180	18.5884	4.2	Pentachlorophenol
7.263	-0.001	159208	7.330	-0.003	239228	18.2692	19.1619	4.8	2,4,6-Trichlorophenol
7.614	-0.005	169420	7.856	-0.008	267841	18.7619	21.5853	14.0	2,3,6-Trichlorophenol
8.214	-0.028	106062	8.589	-0.026	120450	21.0128	18.6988	11.7	2,4,5-Trichlorophenol
8.764	-0.028	107391	9.354	-0.026	166251	15.6980	19.1175	19.6	2,3,4-Trichlorophenol
8.994	-0.013	234557	9.259	-0.018	330737	16.6287	17.8634	7.2	2,3,5,6-Tetrachlorophenol
10.393	-0.020	188036	11.106	-0.020	243555	17.3423	16.6925	3.8	2,3,4,5-Tetrachlorophenol
6.889	-0.004	109817	7.156	-0.010	113387	219.2157	174.5999	22.7	2,4-Dichlorophenol
9.987	-0.015	379929	10.629	-0.017	593559	31.6	31.8	0.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	71.3	74.4
2,4,6-Trichlorophenol	73.1	76.6
2,3,6-Trichlorophenol	75.0	86.3
2,4,5-Trichlorophenol	84.1	74.8
2,3,4-Trichlorophenol	62.8	76.5
2,3,5,6-Tetrachlorophenol	66.5	71.5
2,3,4,5-Tetrachlorophenol	69.4	66.8
2,4-Dichlorophenol	87.7	69.8
2,4,6-TBP (surr)	63.1	63.6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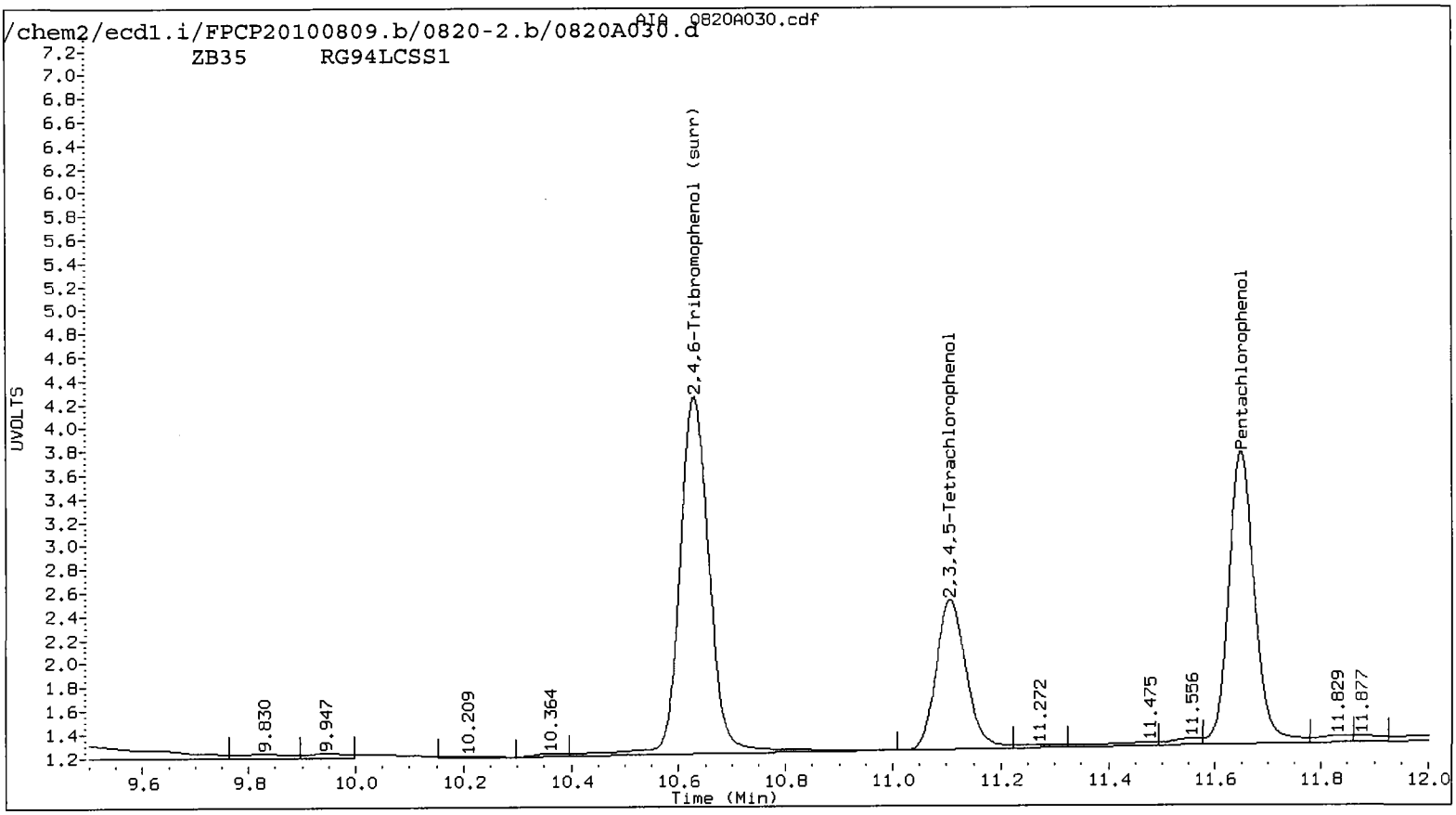
AIA 0820A030.cdf
ZB5 RG94LCSS1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.504
9.595
9.740
10.247
10.606
11.051
11.430
11.590
11.649
11.820
11.887
Time (Min)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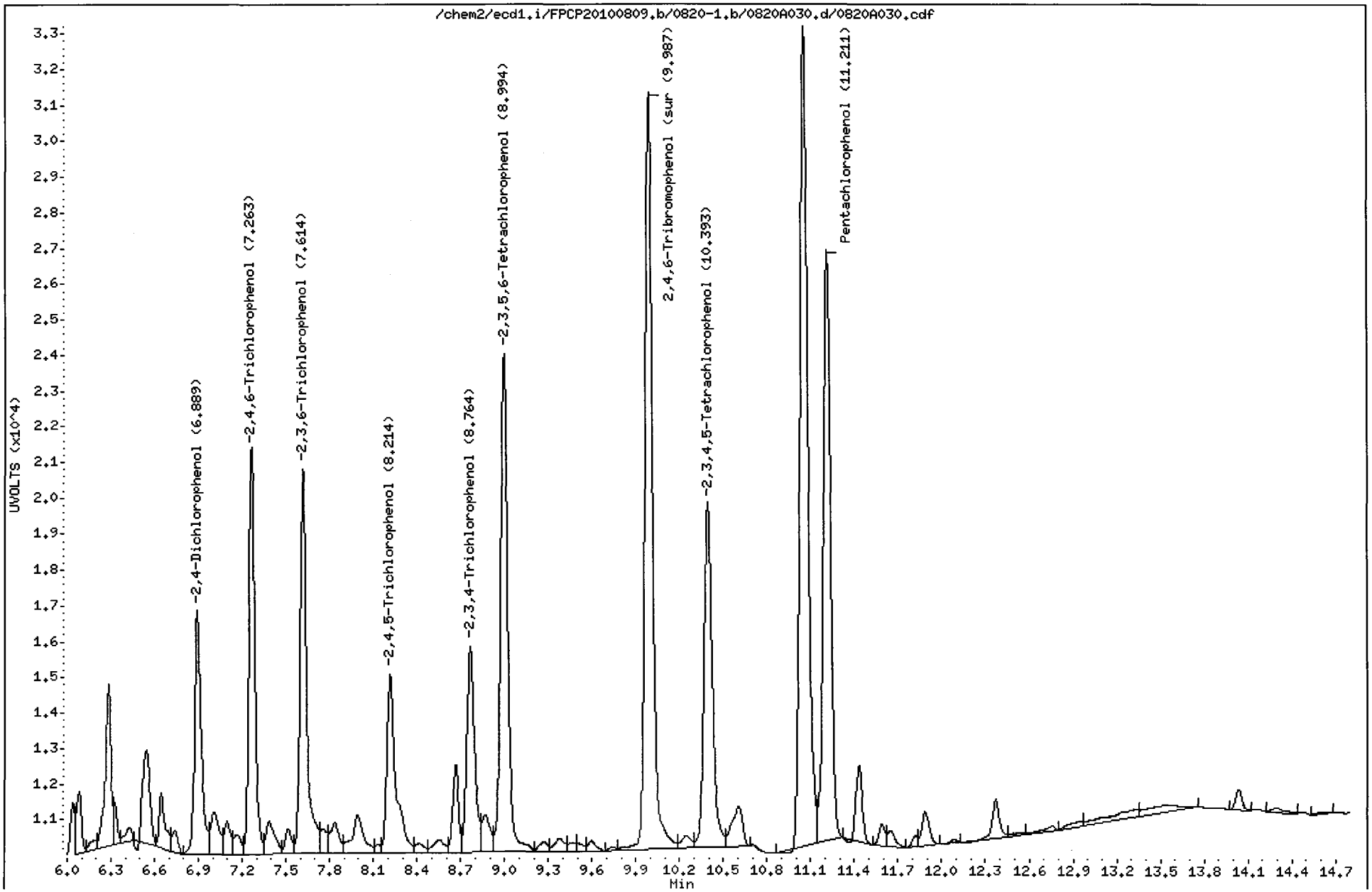
AIA 0820A030.cdf
ZB35 RG94LCSS1
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.830
9.947
10.209
10.364
11.272
11.475
11.556
11.829
11.877
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A030.d
Date : 20-AUG-2010 23:31
Client ID: RG94LCSS1
Sample Info: RG94LCSS1

Instrument: ecd1.i
Operator: ar
Column phase: ZB5
Column diameter: 0.53



RG94-01435

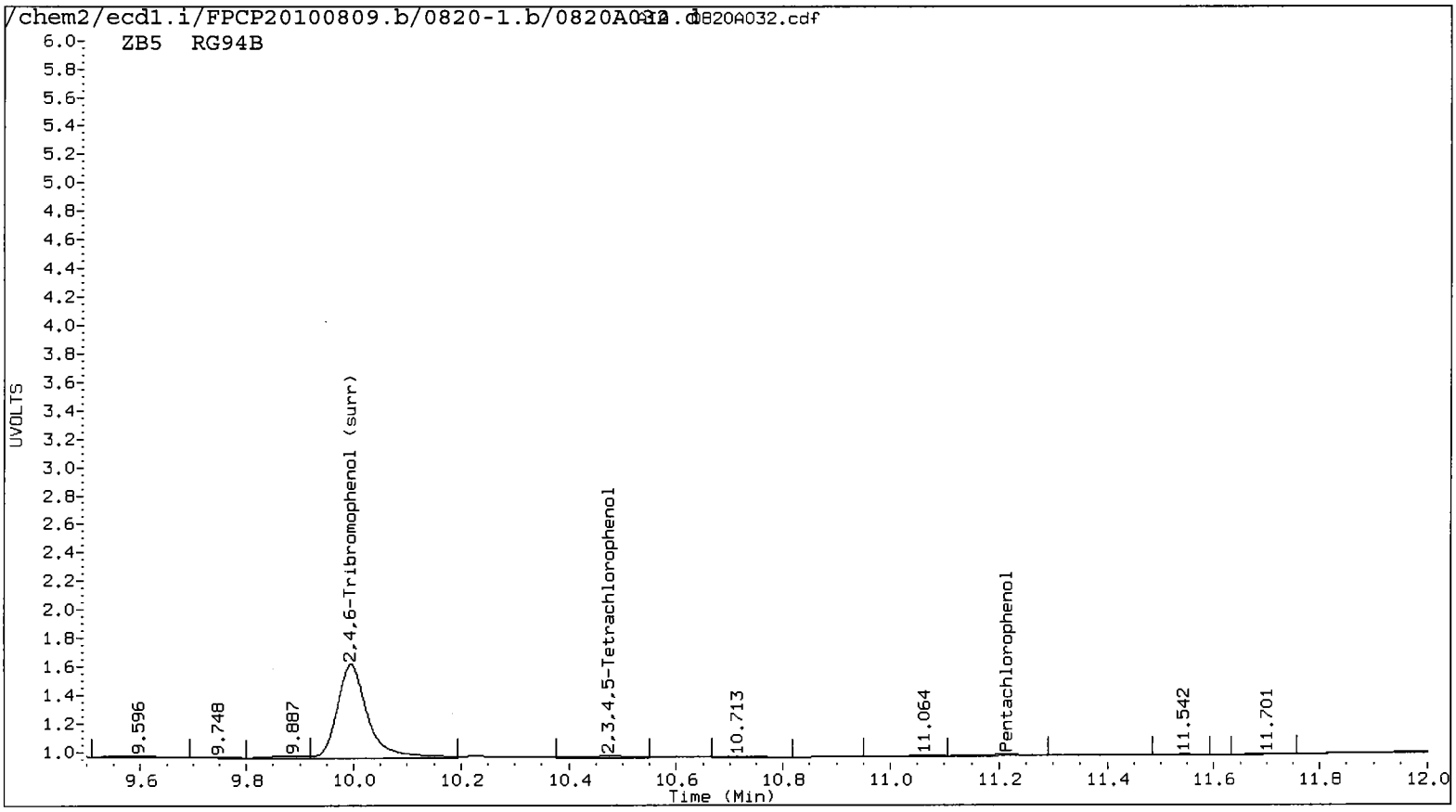
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report AR 8/21/2010

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A032.d ARI ID: RG94B
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A032.d Client ID: MW14-22.5-24-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 00:11
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.213	-0.006	3758	11.660	0.002	3022	0.2086	0.1316	45.2*	Pentachlorophenol
7.289	0.025	15631	7.369	0.036	17169	1.6351	1.3753	17.3	2,4,6-Trichlorophenol
7.683	0.064	6977	7.840	-0.024	8397	0.7123	0.6767	5.1	2,3,6-Trichlorophenol
8.261	0.019	2271	----			0.4501	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.021	0.014	5195	9.263	-0.014	7680	0.3684	0.4148	11.9	2,3,5,6-Tetrachlorophenol
10.473	0.060	3869	----			0.3081	0.0000	---	2,3,4,5-Tetrachlorophenol
6.910	0.017	2375	7.159	-0.007	7298	3.7056	9.7769	90.1*	2,4-Dichlorophenol
9.995	-0.007	128763	10.634	-0.012	176937	9.8	9.5	2.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	39.0	37.9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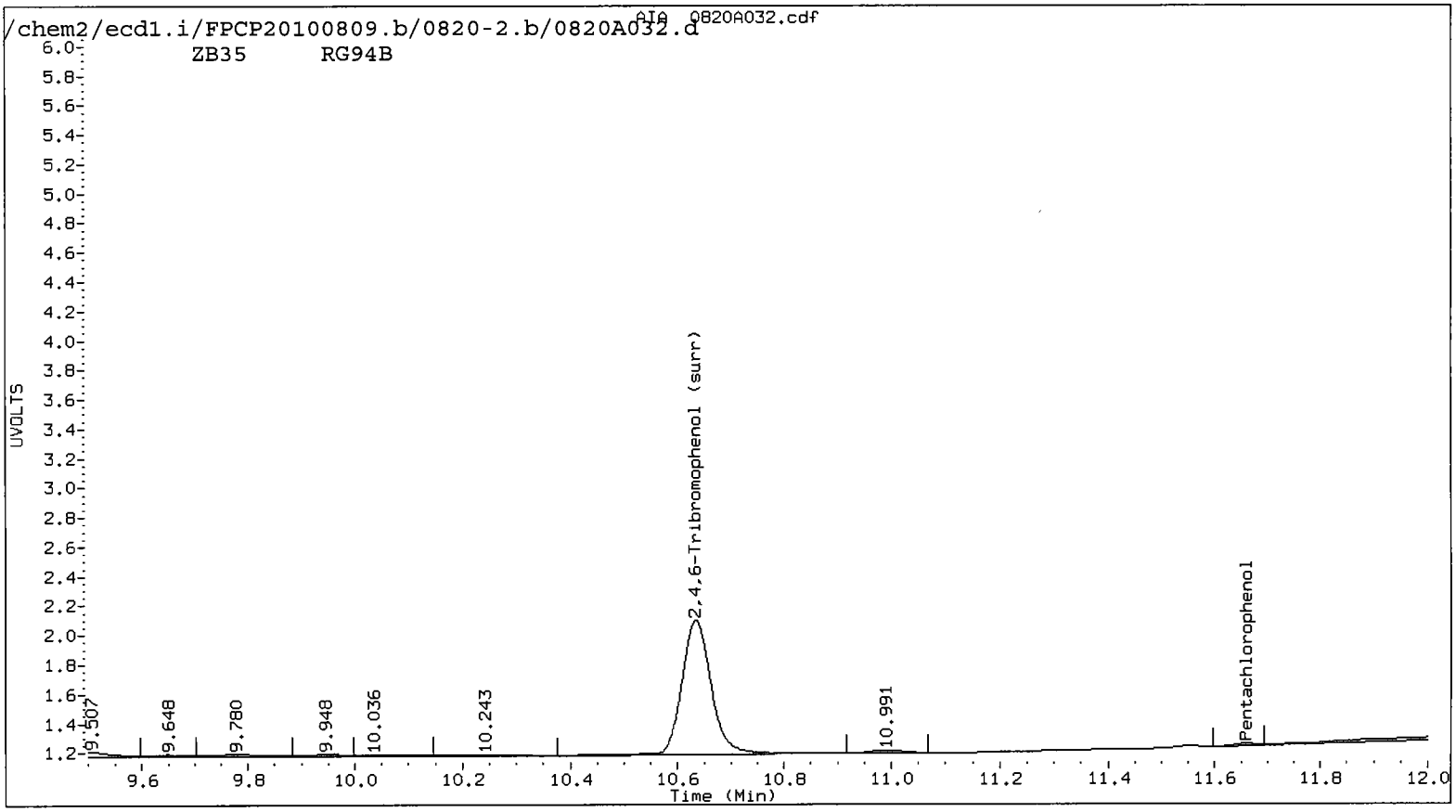
AIA 0820A032.cdf
ZB5 RG94B
UVOLTS
9.596
9.748
9.887
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
10.713
11.064
Pentachlorophenol
11.542
11.701
Time (Min)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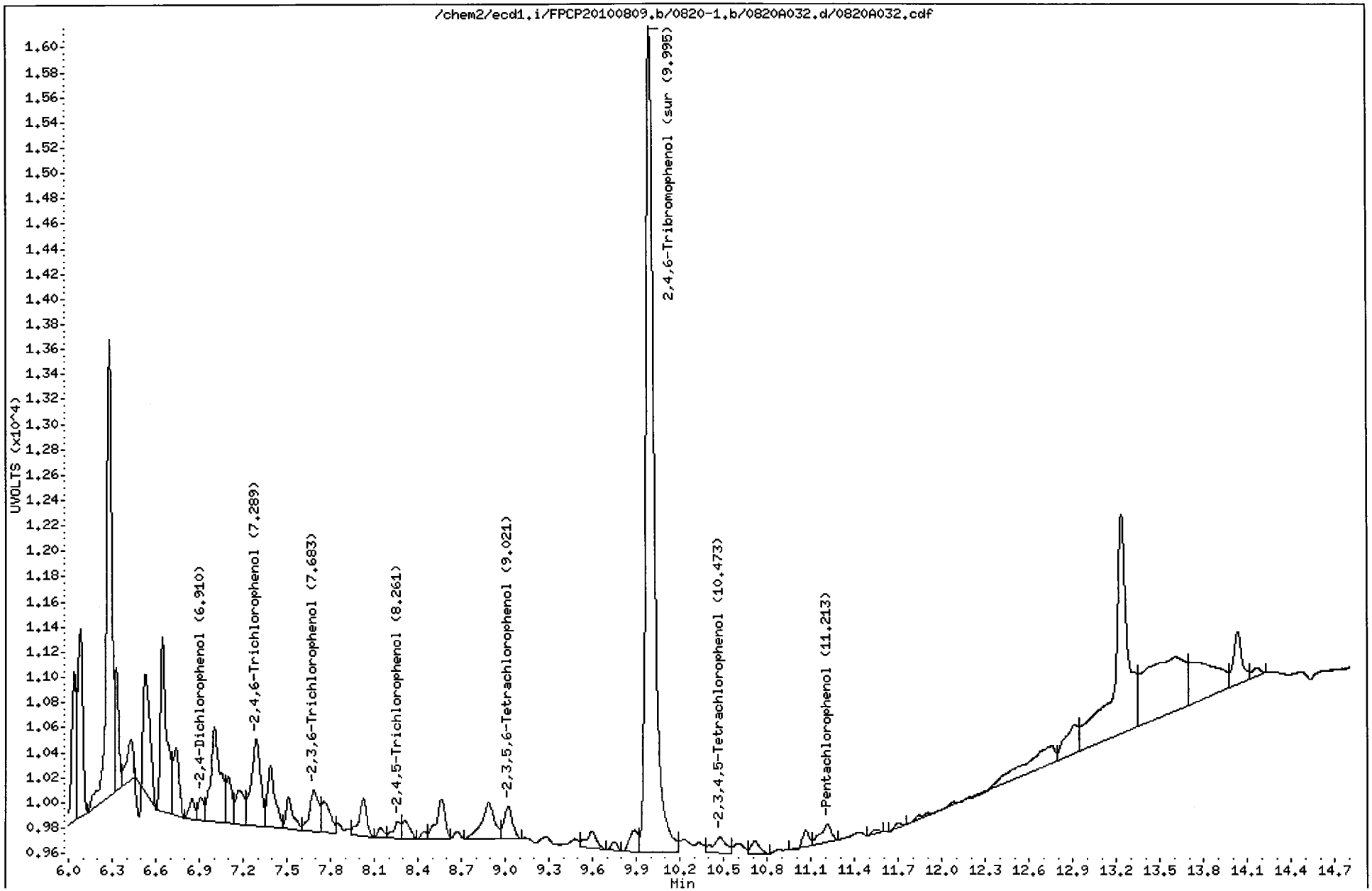
AIA 0820A032.cdf
ZB35 RG94B
UVOLTS
9.507
9.648
9.780
9.948
10.036
10.243
2,4,6-Tribromophenol (surr)
10.991
Pentachlorophenol
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A032.d
Date : 21-AUG-2010 00:11
Client ID: MW14-22.5-24-080210
Sample Info: RG94B

Instrument: ecd1.i
Operator: ar
Column phase: ZB5
Column diameter: 0.53



RG94 : 01128

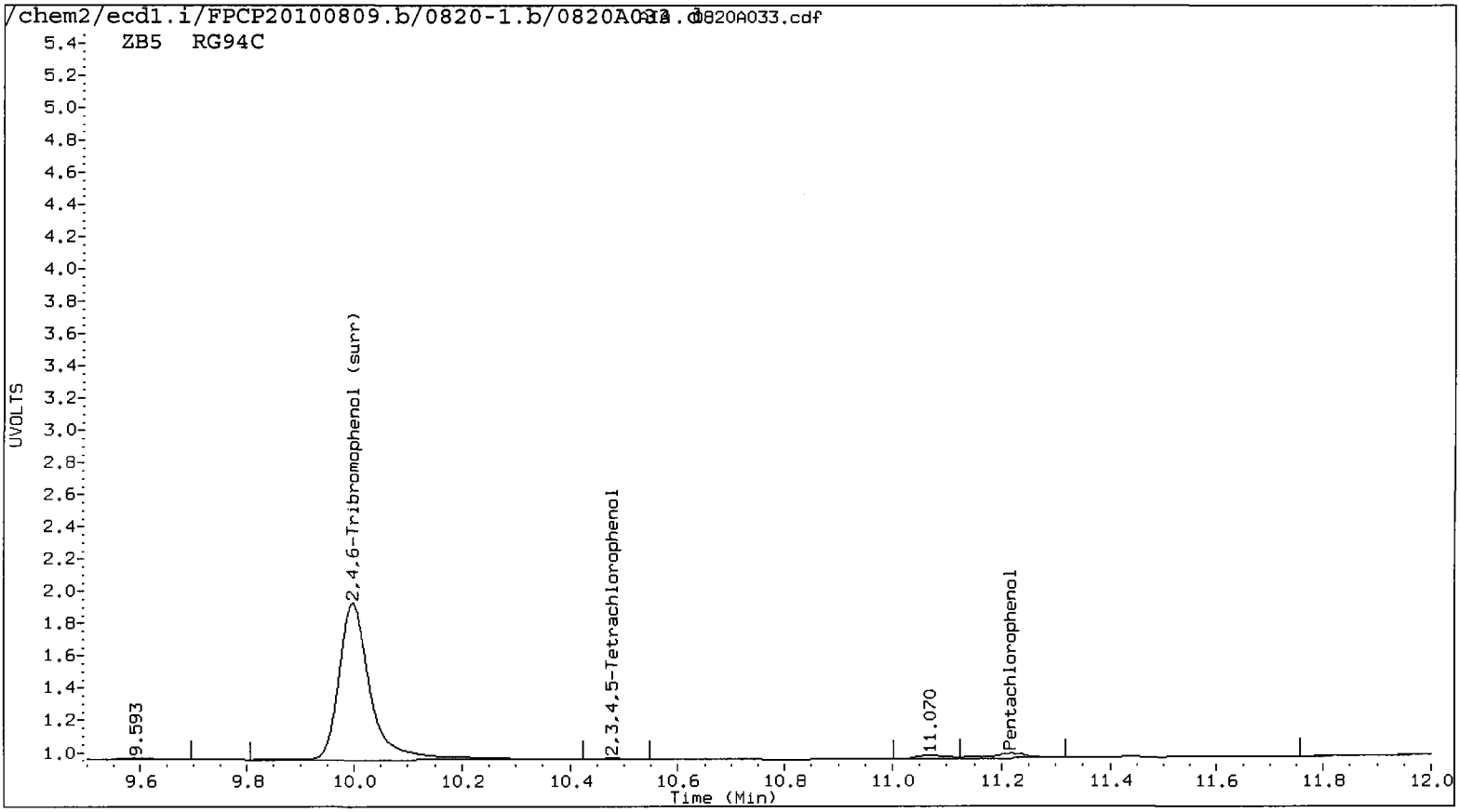
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A033.d ARI ID: RG94C
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A033.d Client ID: MW13-10-11.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 00:31
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.218	-0.001	7000	11.654	-0.004	6596	0.3890	0.2873	30.1	Pentachlorophenol
7.288	0.024	13594	7.373	0.040	18625	1.4201	1.4919	4.9	2,4,6-Trichlorophenol
7.687	0.068	6227	7.821	-0.043	5644	0.6355	0.4549	33.1	2,3,6-Trichlorophenol
8.260	0.018	1898	8.564	-0.051	1789	0.3761	0.2492	40.6*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.014	0.007	11039	9.264	-0.013	7032	0.7826	0.3798	69.3*	2,3,5,6-Tetrachlorophenol
10.477	0.064	762	----			0.0605	0.0000	---	2,3,4,5-Tetrachlorophenol
6.919	0.026	6319	7.161	-0.005	7861	9.9574	10.5397	5.7	2,4-Dichlorophenol
9.998	-0.004	198129	10.636	-0.010	276195	15.4	14.8	4.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	61.6	59.2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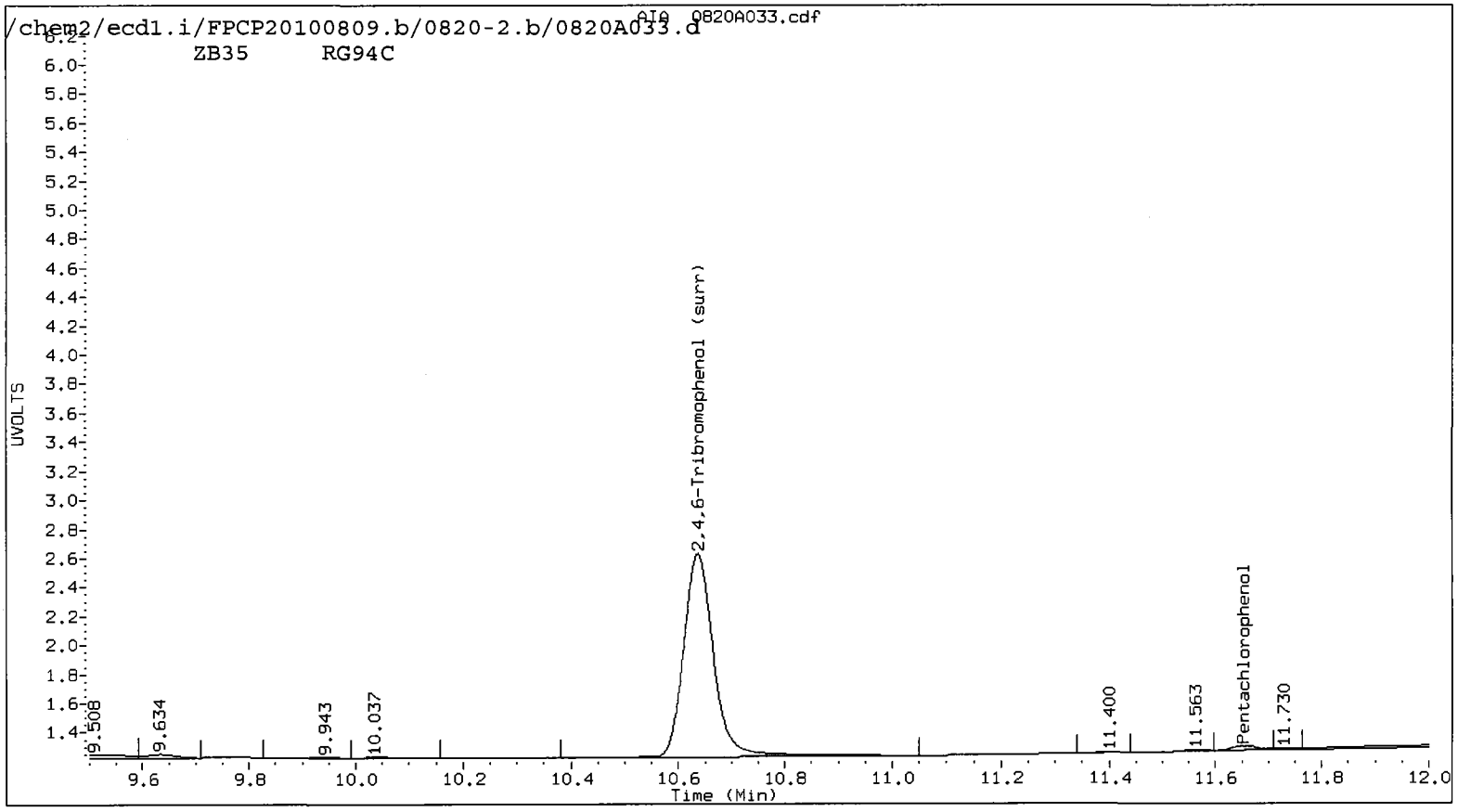
ZB5 RG94C
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.593
11.070
Time (Min)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AIQ 0820A033.cdf
ZB35 RG94C
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.508
9.634
9.943
10.037
11.400
11.563
11.730
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A033.d

Date : 21-AUG-2010 00:31

Client ID: MW13-10-11.5-080210

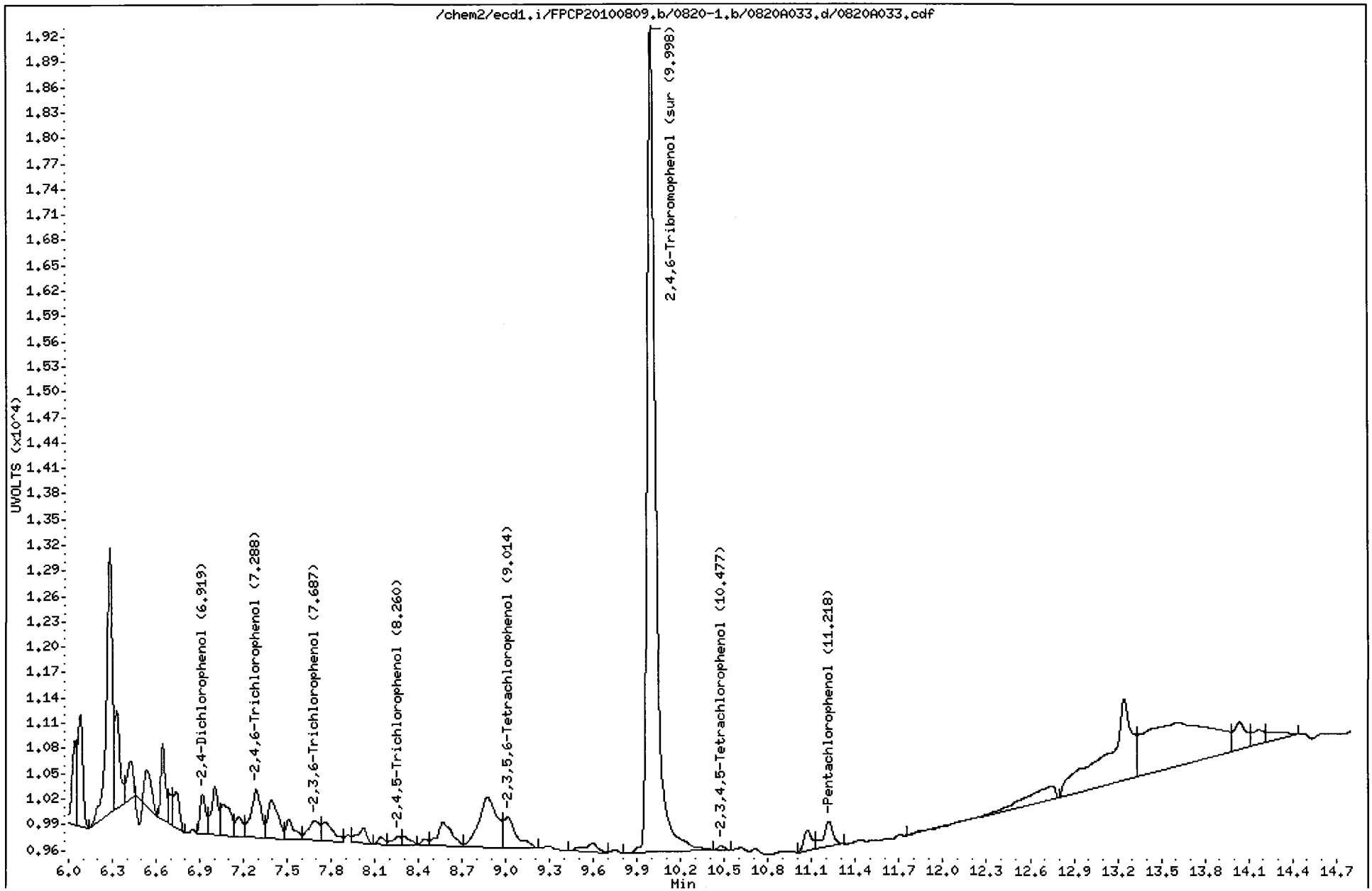
Instrument: ecd1.i

Sample Info: RG94C

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG94 : 0114

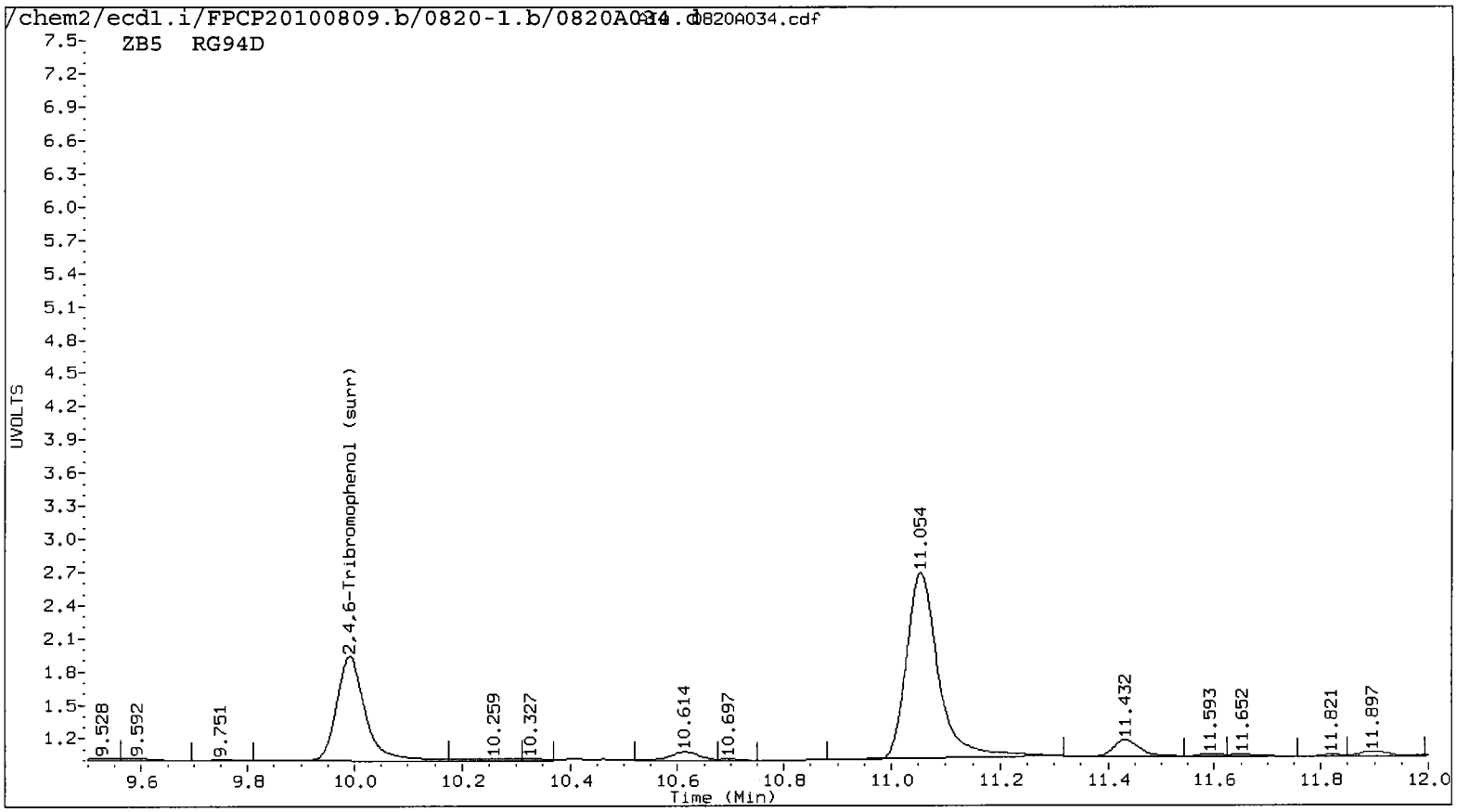
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A034.d ARI ID: RG94D
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A034.d Client ID: MW13-14-14.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 00:51
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
----			11.723	0.065	13323	0.0000	0.5802	---	Pentachlorophenol
7.287	0.023	21906	7.370	0.037	31644	2.3012	2.5346	9.7	2,4,6-Trichlorophenol
7.679	0.060	12356	7.840	-0.024	18445	1.2649	1.4865	16.1	2,3,6-Trichlorophenol
8.302	0.060	7092	8.656	0.041	3508	1.4052	0.4896	96.6*	2,4,5-Trichlorophenol
----			9.373	-0.007	4492	0.0000	0.4652	---	2,3,4-Trichlorophenol
9.015	0.008	15805	9.258	-0.019	12193	1.1205	0.6586	51.9*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.901	0.008	27859	7.163	-0.003	8327	46.3353	11.1715	122.3*	2,4-Dichlorophenol
9.991	-0.011	176238	10.631	-0.015	242035	13.6	13.0	4.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	54.4	51.9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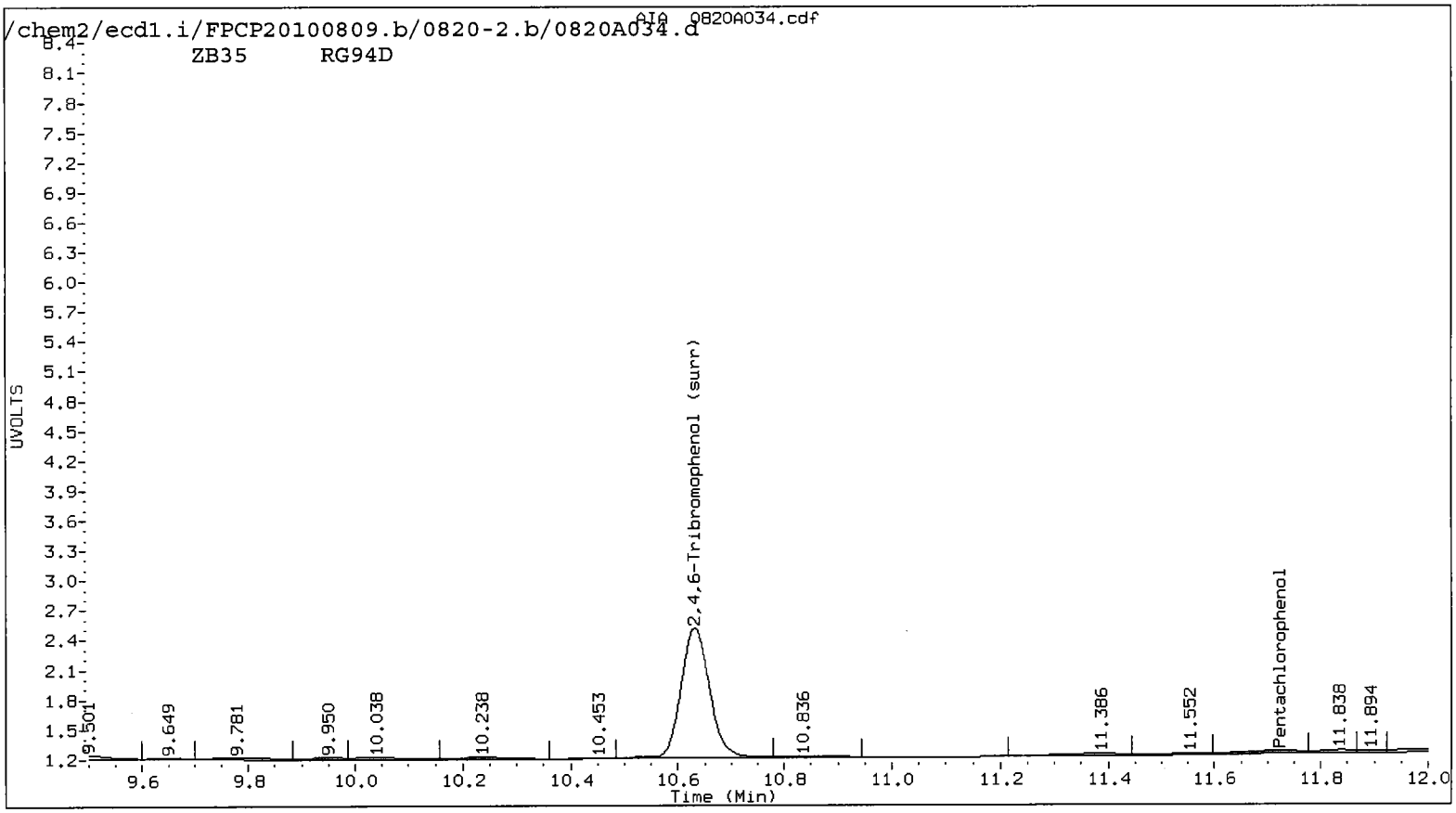
AIA 0820A034.cdf
ZB5 RG94D
UVOLTS
2,4,6-Tribromophenol (surr)
9.528
9.592
9.751
10.259
10.327
10.614
10.697
11.054
11.432
11.593
11.652
11.821
11.897
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A034.d
AIA 0820A034.cdf
ZB35 RG94D
UVOLTS
9.501
9.649
9.781
9.950
10.038
10.238
10.453
2,4,6-Tribromophenol (surr)
10.836
11.386
11.552
Pentachlorophenol
11.838
11.894
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A034.d

Date : 21-AUG-2010 00:51

Client ID: MW13-14-14.5-080210

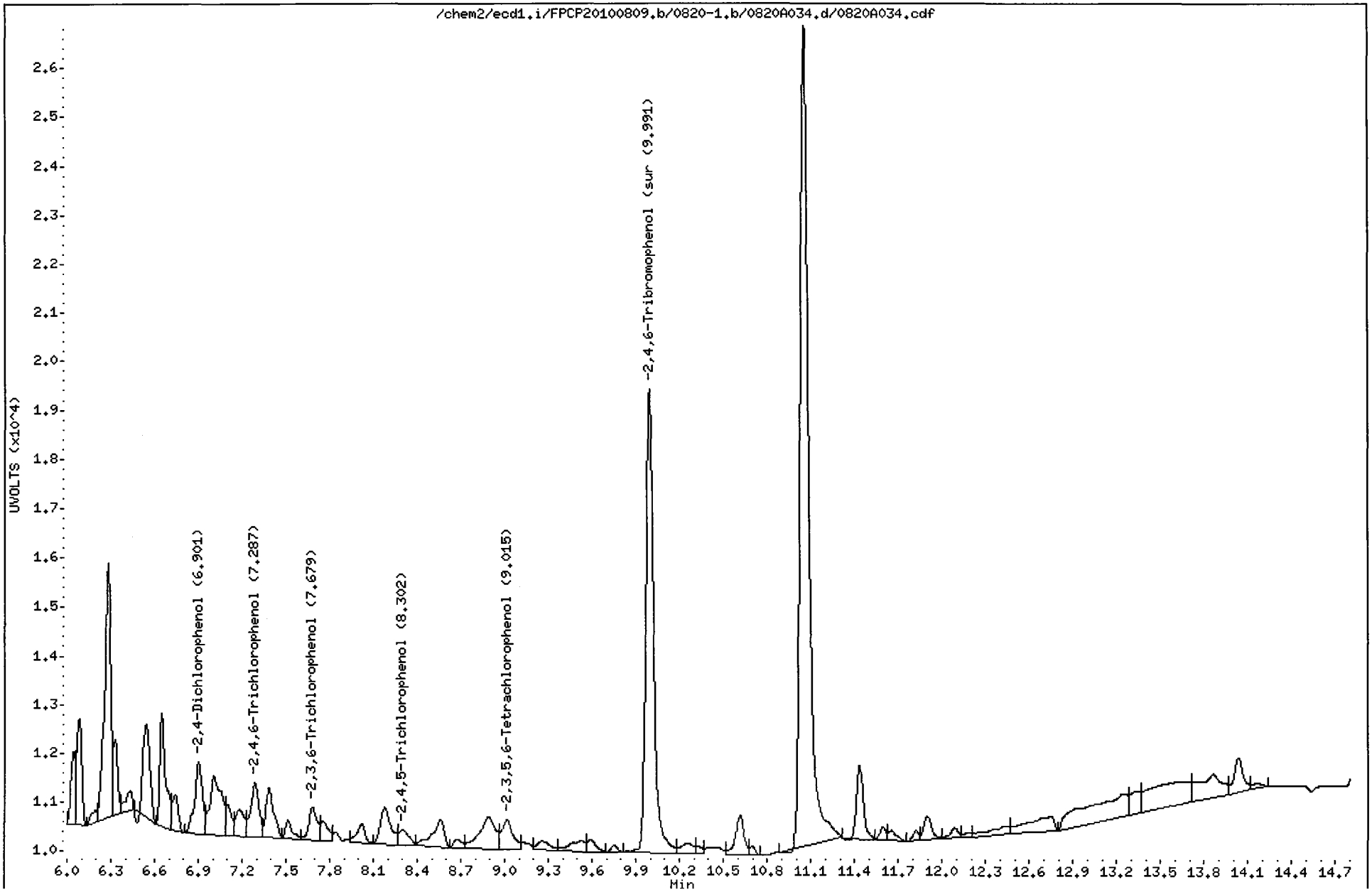
Instrument: ecd1.i

Sample Info: RG94D

Operator: ar

Column phase: ZB5

Column diameter: 0.53



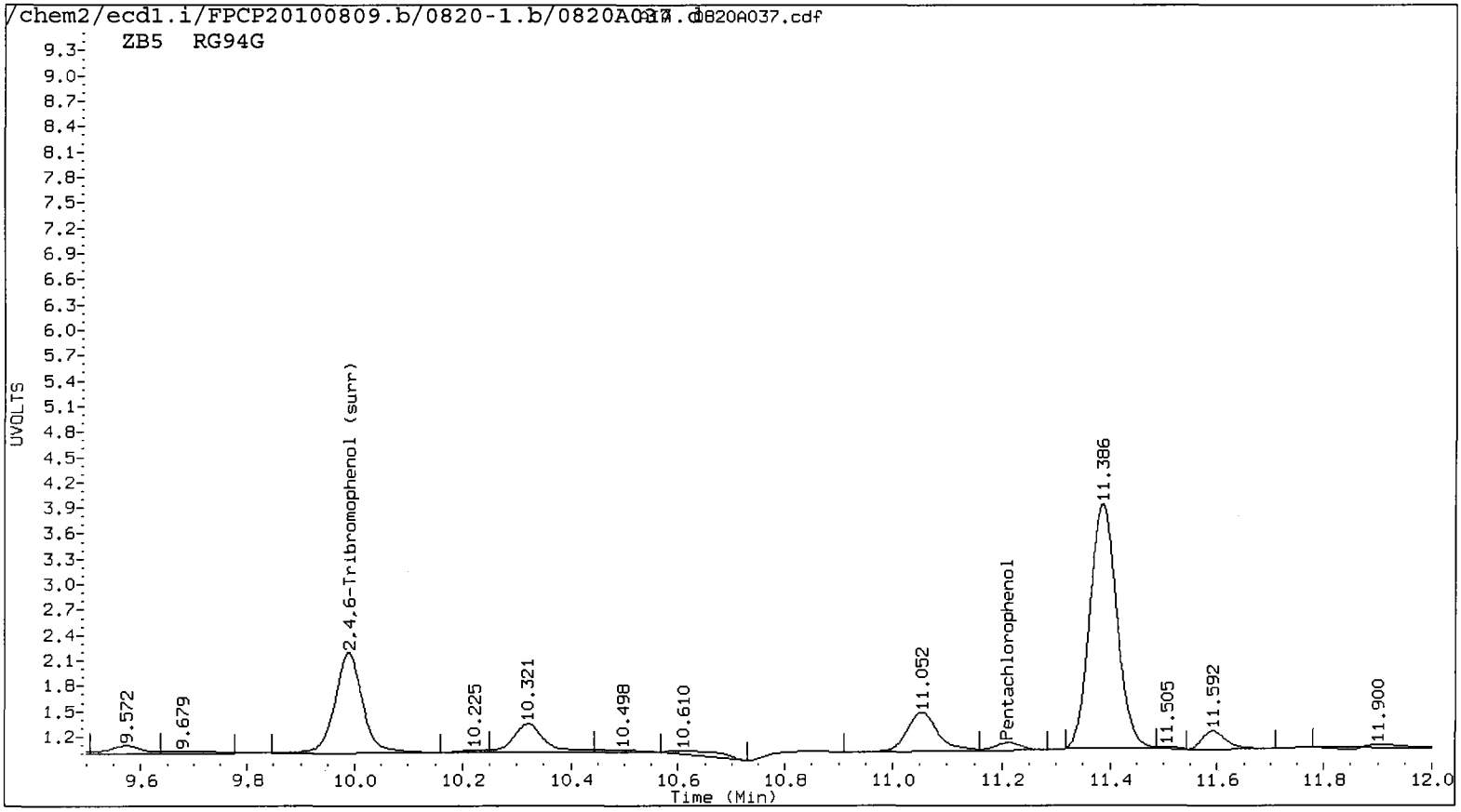
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

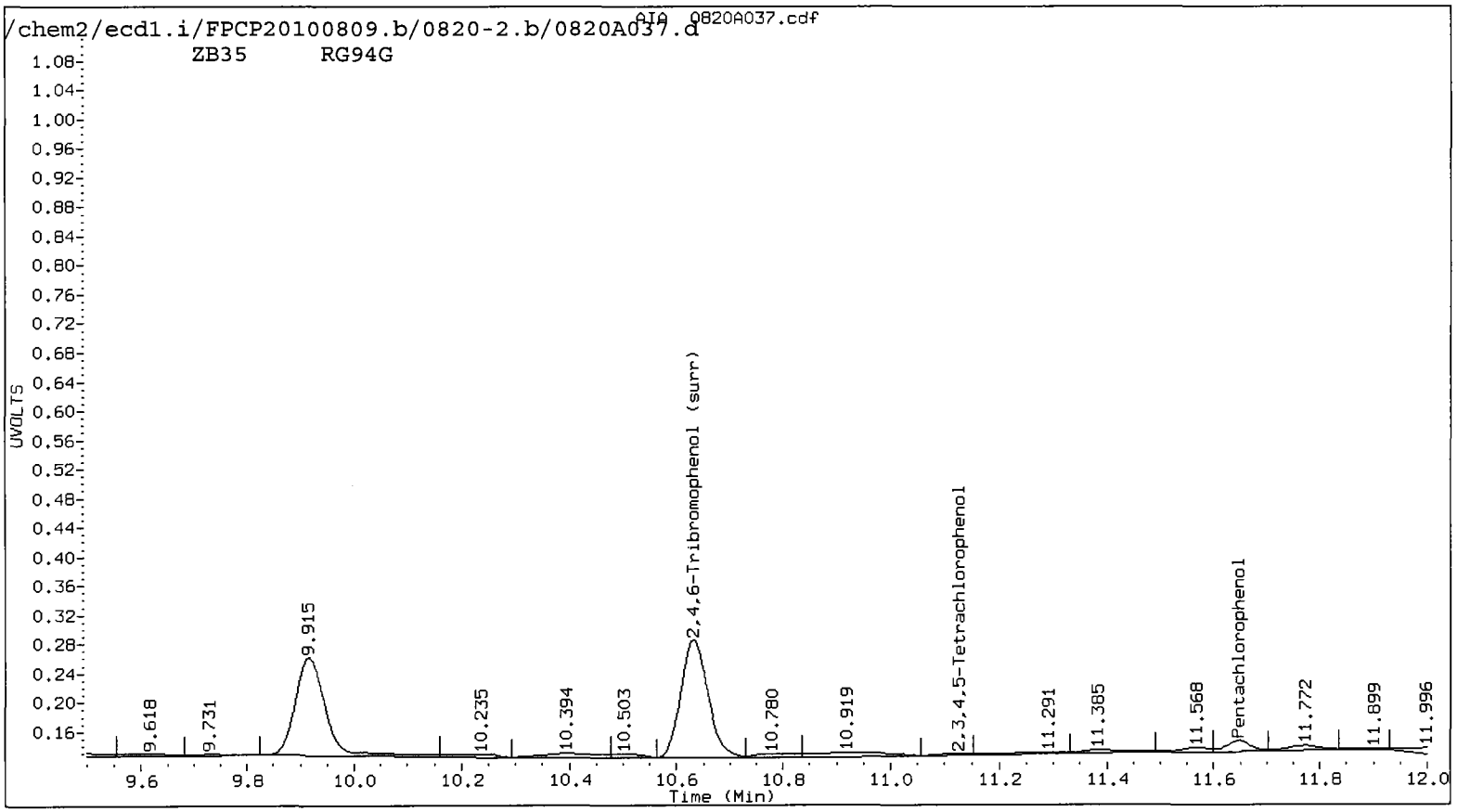
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A037.d ARI ID: RG94G
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A037.d Client ID: MW12-5.5-7.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 01:51
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.211	-0.008	14407	11.647	-0.011	23503	0.8031	1.0236	24.1	Pentachlorophenol
7.292	0.028	7994	7.376	0.043	15369	0.8319	1.2310	38.7	2,4,6-Trichlorophenol
7.556	-0.063	17727	7.812	-0.052	25452	1.8197	2.0512	12.0	2,3,6-Trichlorophenol
8.304	0.062	9596	8.593	-0.022	34791	1.9011	5.0010	89.8*	2,4,5-Trichlorophenol
----			9.412	0.032	21087	0.0000	2.2082	---	2,3,4-Trichlorophenol
9.041	0.034	81883	9.281	0.004	8213	5.8050	0.4436	171.6*	2,3,5,6-Tetrachlorophenol
----			11.126	0.000	5930	0.0000	0.4064	---	2,3,4,5-Tetrachlorophenol
6.909	0.016	22847	7.207	0.041	228909	37.5347	402.4032	165.9*	2,4-Dichlorophenol
9.989	-0.013	217507	10.631	-0.015	282770	17.0	15.1	11.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	68.2	60.6


/chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A037.d
0820A037.cdf
ZB5 RG94G
UVOLTS
9.572
9.679
2,4,6-Tribromophenol (surr)
10.225
10.321
10.498
10.610
11.052
Pentachlorophenol
11.386
11.505
11.592
11.900
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A037.d
0820A037.cdf
ZB35 RG94G
UVOLTS
9.618
9.731
9.915
10.235
10.394
10.503
2,4,6-Tribromophenol (surr)
10.780
10.919
2,3,4,5-Tetrachlorophenol
11.291
11.385
11.568
Pentachlorophenol
11.772
11.899
11.996
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A037.d

Page 1

Date : 21-AUG-2010 01:51

Client ID: MW12-5.5-7.5-080210

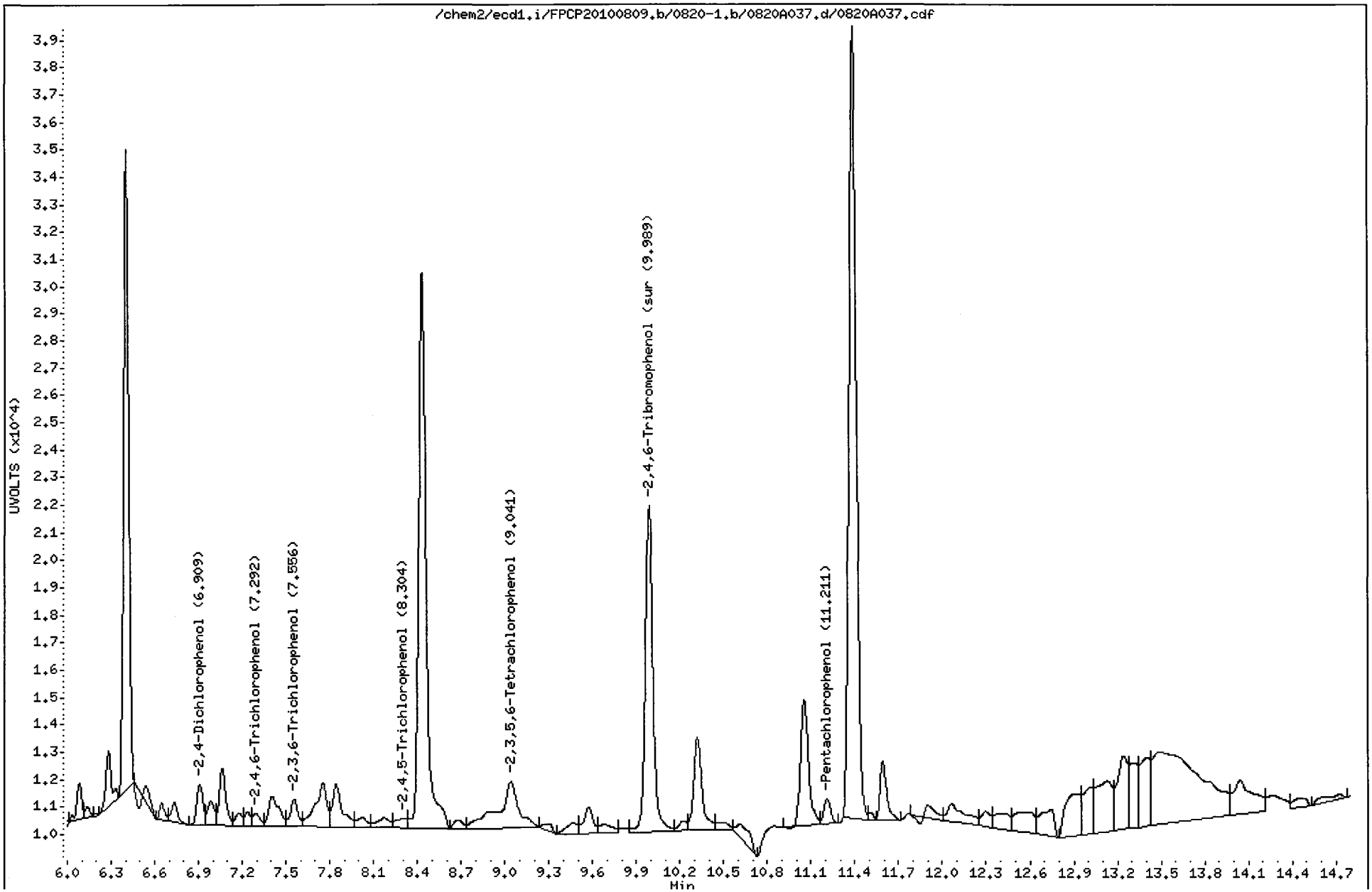
Instrument: ecd1.i

Sample Info: RG94G

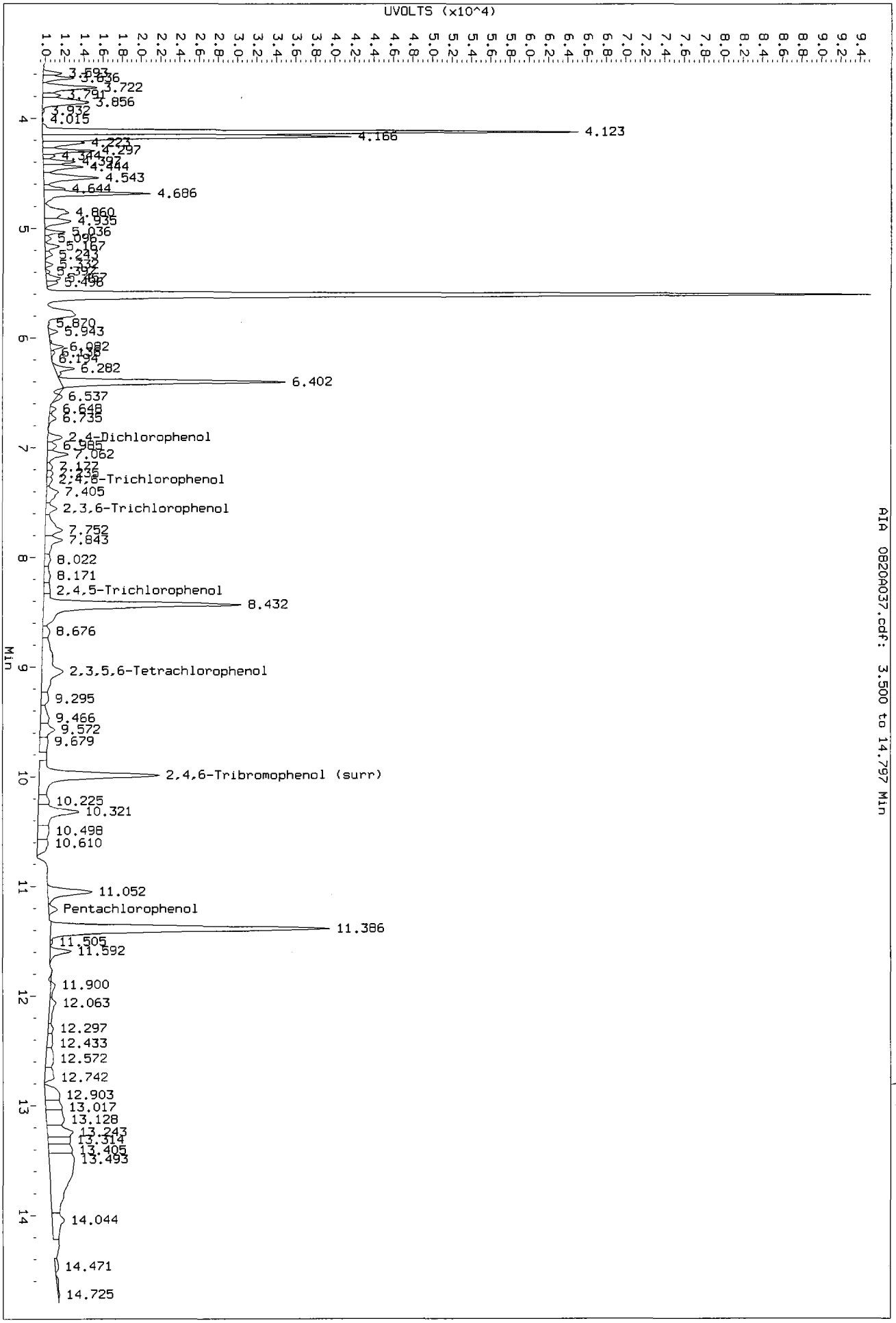
Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG94:0117



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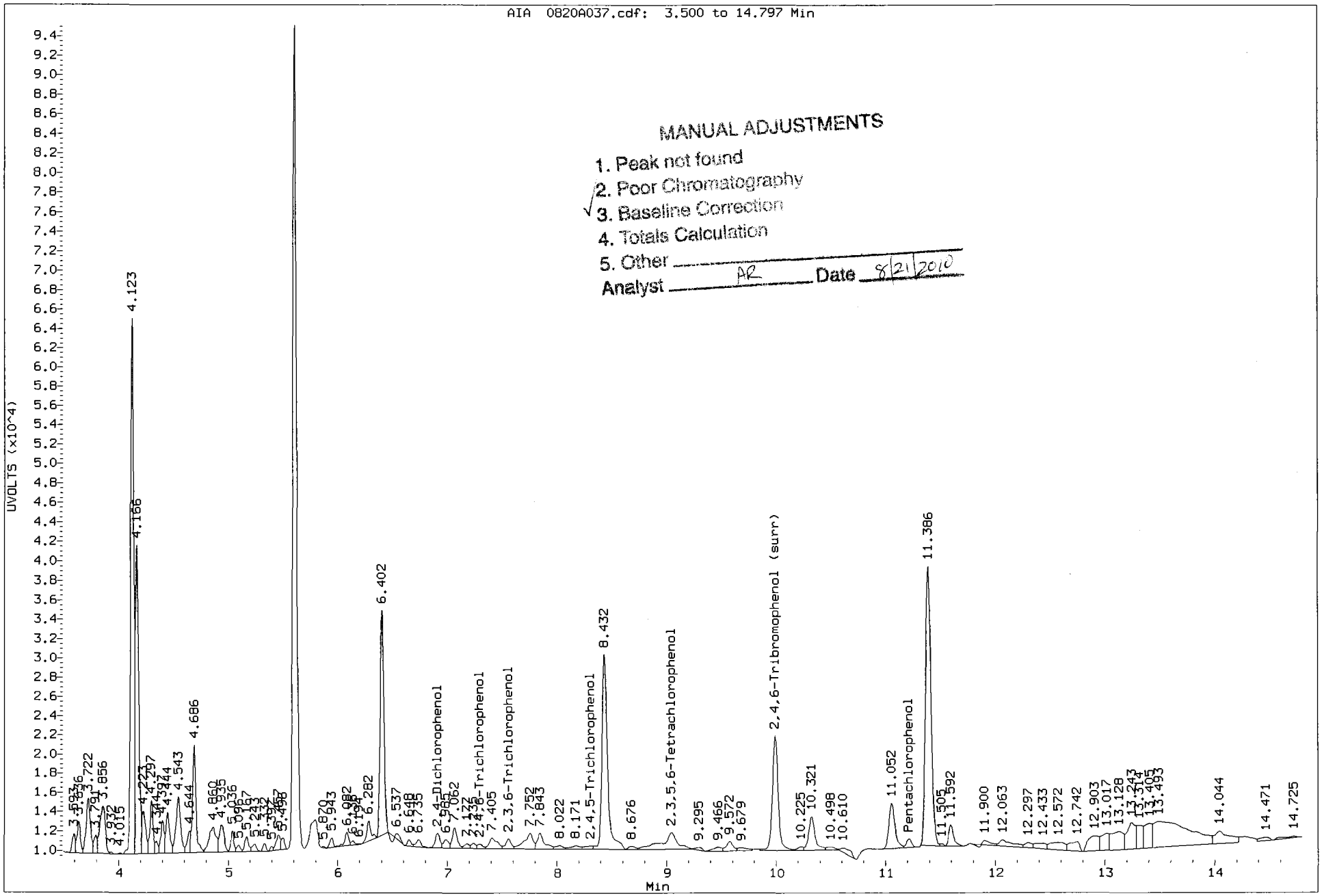
Injection Date: 21-AUG-2010 01:51
Instrument: ecd1.i
Client Sample ID: MW12-5.5-7.5-080210

AIA 0820A037.cdf: 3.500 to 14.797 Min

AR 8/21/2010

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A037.d/0820A037.cdf
Injection Date: 21-AUG-2010 01:51
Instrument: ecd1.i
Client Sample ID: MW12-5.5-7.5-080210



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other _____

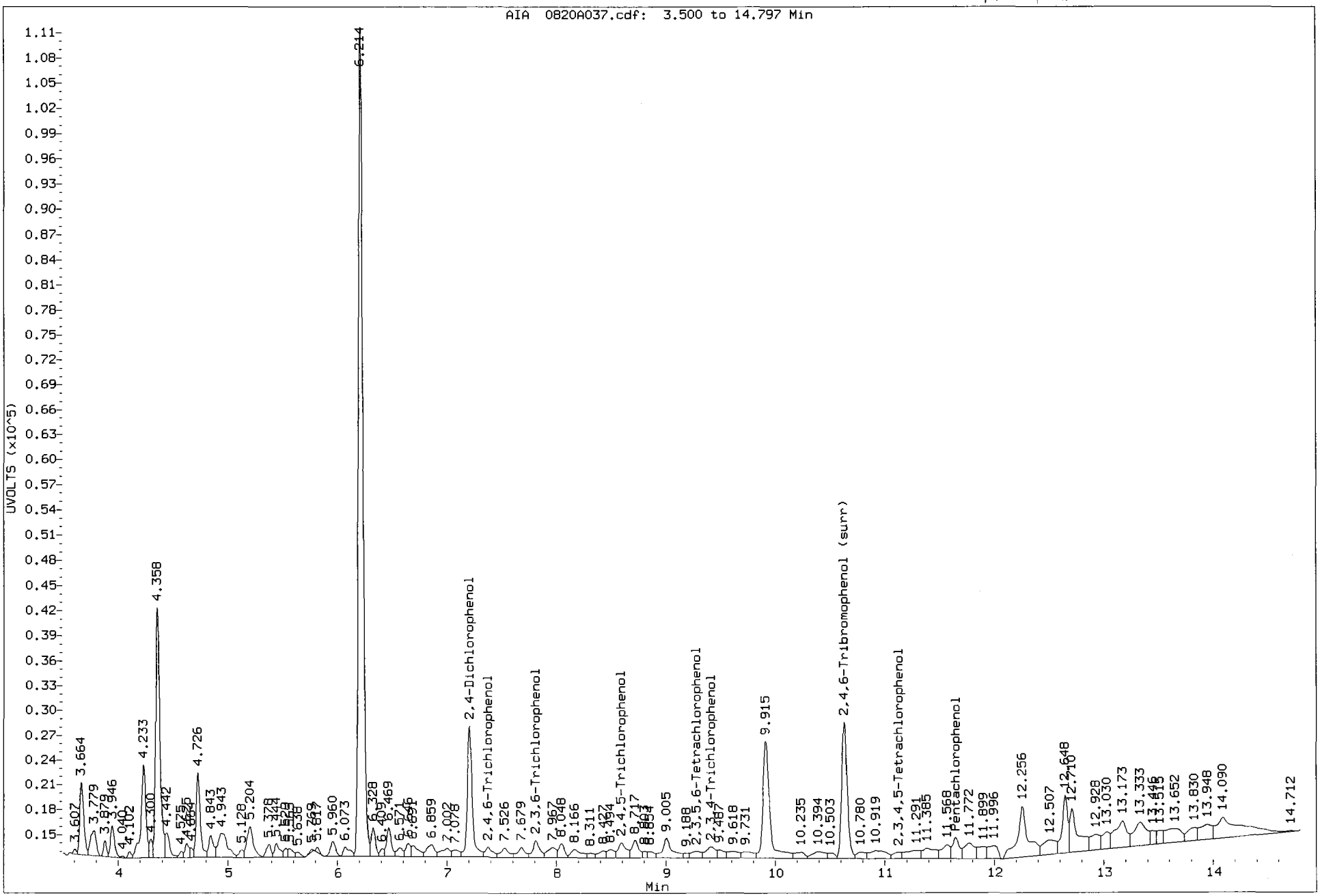
Analyst AR Date 8/21/2010

RGSL-01119

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A037.d/0820A037.cdf
Injection Date: 21-AUG-2010 01:51
Instrument: ecd1.i
Client Sample ID: MW12-5.5-7.5-080210

AR 8/21/2010

RG91 : 01159



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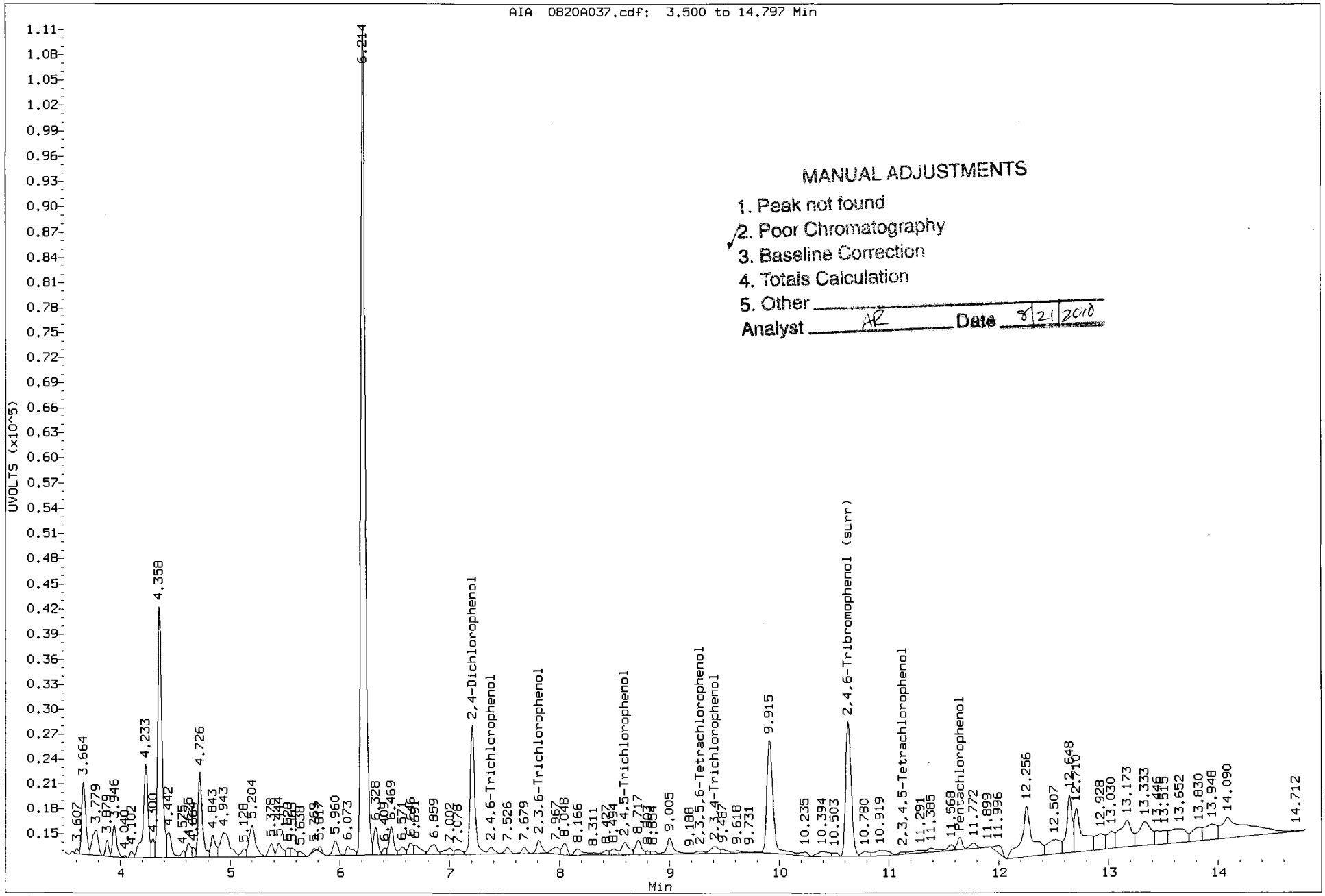
Injection Date: 21-AUG-2010 01:51
Instrument: ecd1.i
Client Sample ID: MW12-5.5-7.5-080210



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other _____

Analyst AR Date 8/21/2010

RGSL : 01151

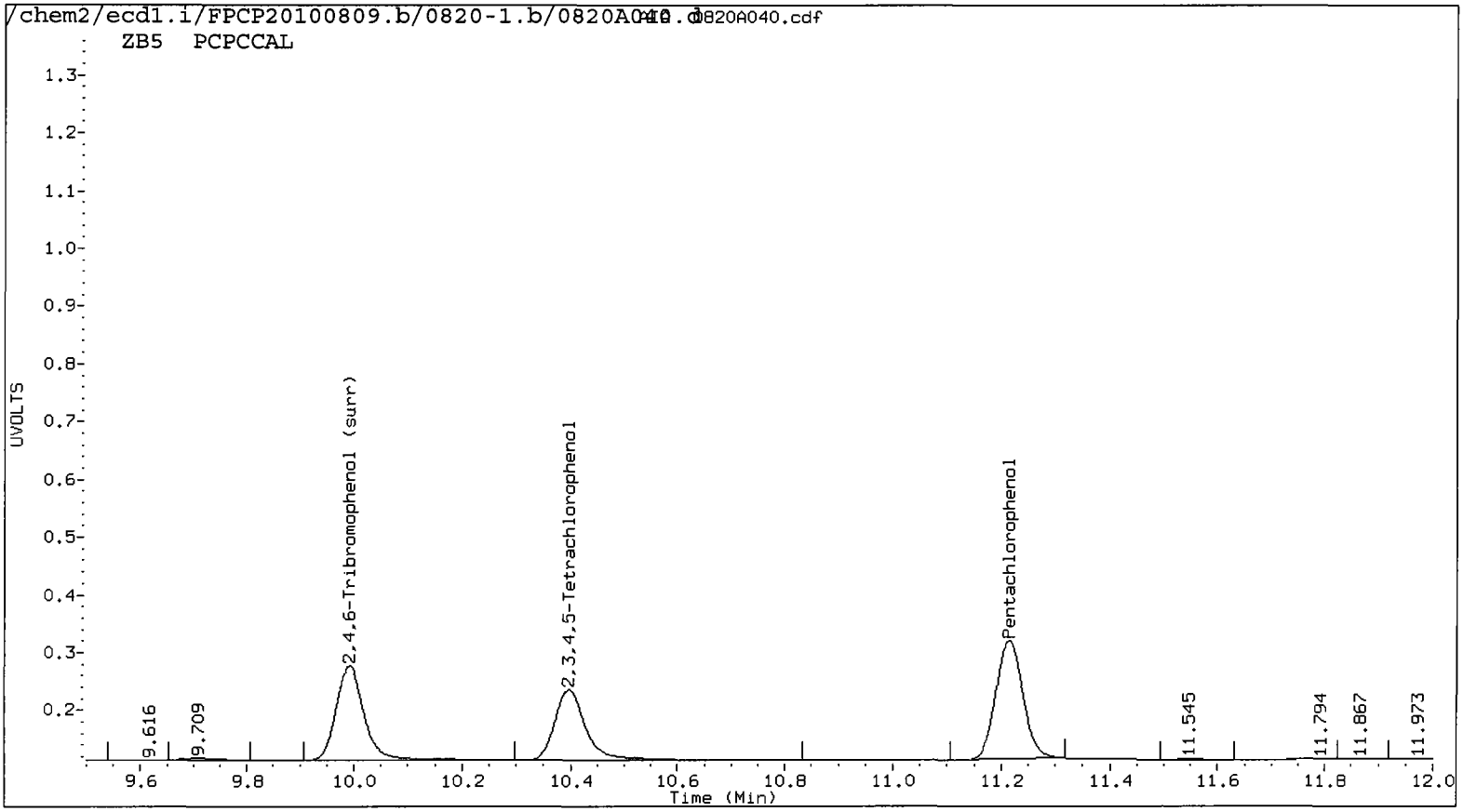
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A040.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A040.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 02:51
Compound Sublist: all Report Date: 08/21/2010 13:35
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.214	-0.005	355777	11.651	-0.007	556642	22.7175	24.2425	6.5	Pentachlorophenol
7.264	0.000	213737	7.332	-0.001	297724	25.3503	23.8474	6.1	2,4,6-Trichlorophenol
7.617	-0.002	201159	7.860	-0.004	284407	22.6171	22.9203	1.3	2,3,6-Trichlorophenol
8.220	-0.022	115441	8.593	-0.022	157833	22.8710	25.2942	10.1	2,4,5-Trichlorophenol
8.769	-0.023	157928	9.358	-0.022	203391	23.0852	23.9228	3.6	2,3,4-Trichlorophenol
8.997	-0.010	333829	9.263	-0.014	444734	23.6664	24.0205	1.5	2,3,5,6-Tetrachlorophenol
10.397	-0.016	247565	11.110	-0.016	339571	23.8414	23.2731	2.4	2,3,4,5-Tetrachlorophenol
6.888	-0.005	116611	7.159	-0.007	145405	235.9962	232.6900	1.4	2,4-Dichlorophenol
9.991	-0.011	297295	10.633	-0.013	441811	24.0	23.7	1.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	90.9	97.0
2,4,6-Trichlorophenol	101.4	95.4
2,3,6-Trichlorophenol	90.5	91.7
2,4,5-Trichlorophenol	91.5	101.2
2,3,4-Trichlorophenol	92.3	95.7
2,3,5,6-Tetrachlorophenol	94.7	96.1
2,3,4,5-Tetrachlorophenol	95.4	93.1
2,4-Dichlorophenol	94.4	93.1
2,4,6-TBP (surr)	95.9	94.7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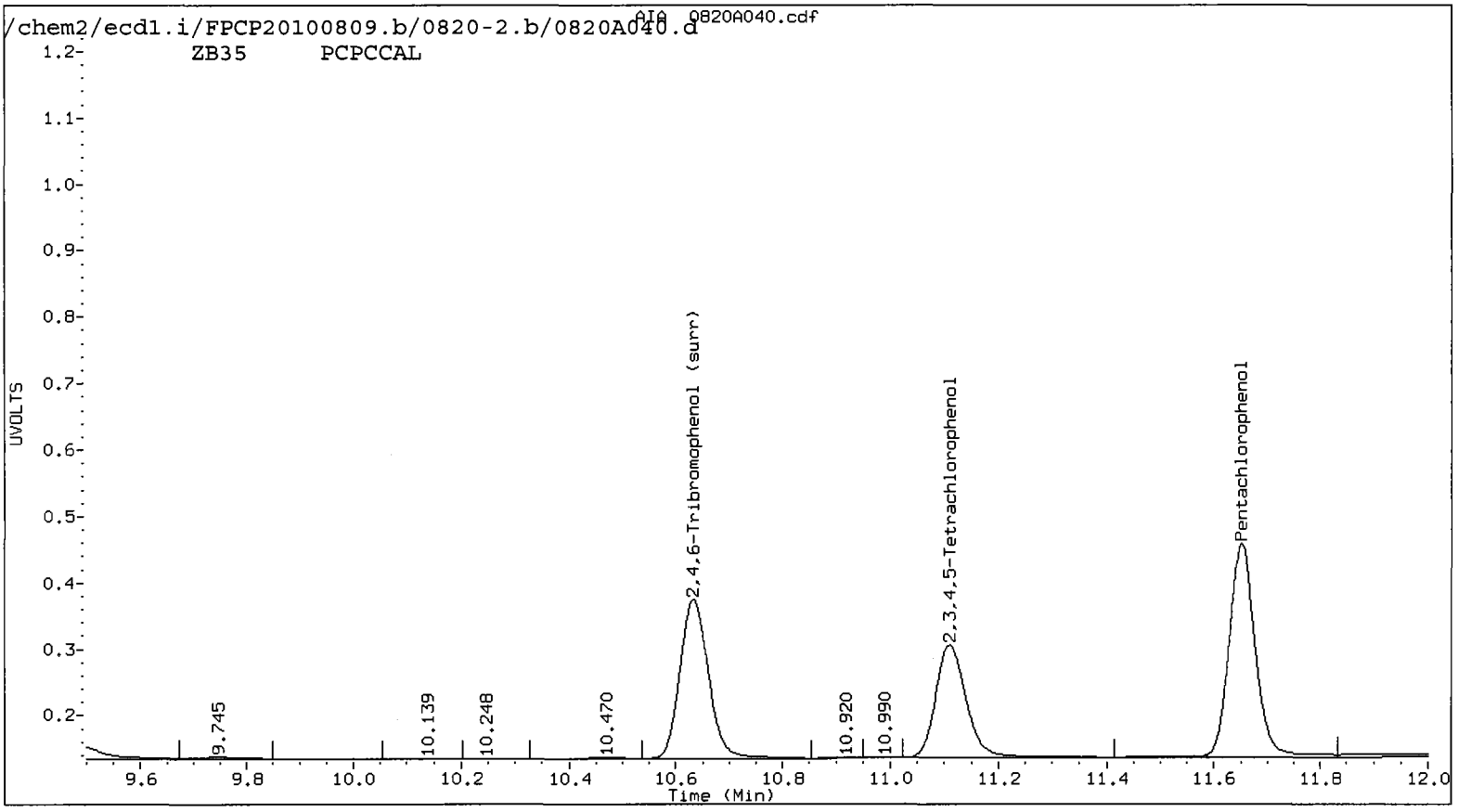
0820A040.cdf
ZB5 PCPCCAL
UVOLTS
Time (Min)
9.616
9.709
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
11.545
11.794
11.867
11.973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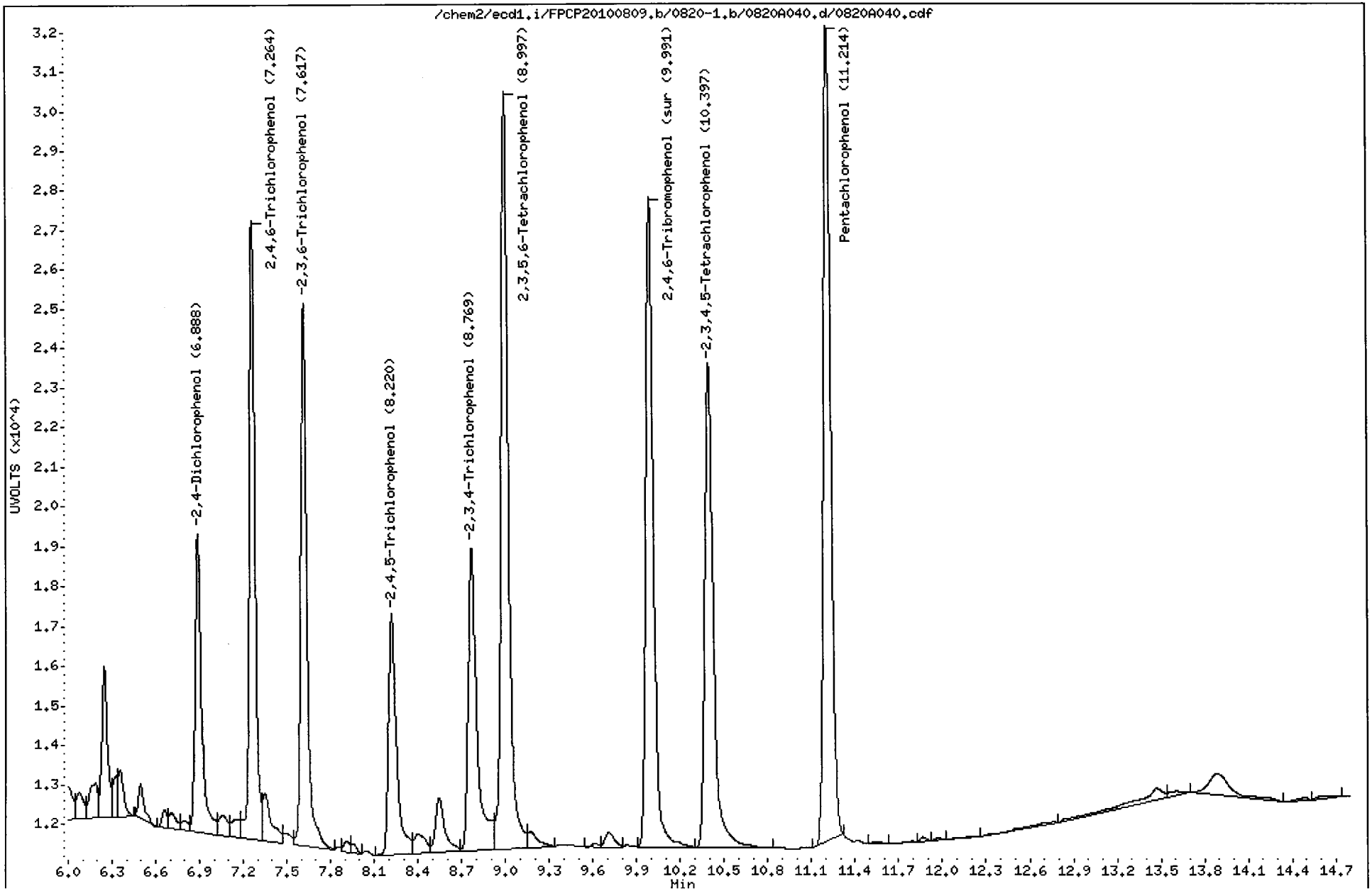
AIA 0820A040.cdf
ZB35 PCPCCAL
UVOLTS
Time (Min)
9.745
10.139
10.248
10.470
2,4,6-Tribromophenol (surr)
10.920
10.990
2,3,4,5-Tetrachlorophenol
Pentachlorophenol

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A040.d
Date : 21-AUG-2010 02:51
Client ID:
Sample Info: PCPCCAL
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



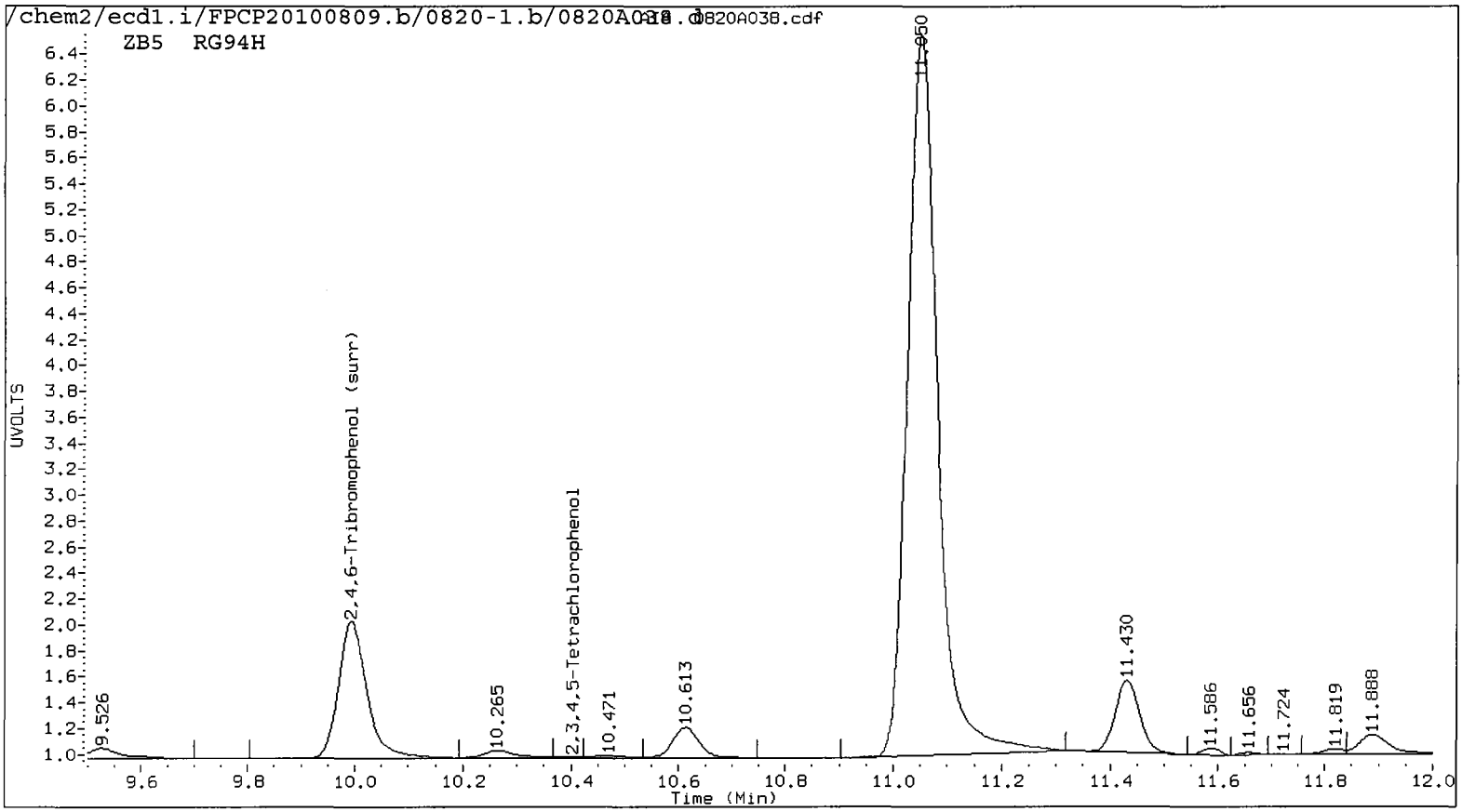
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

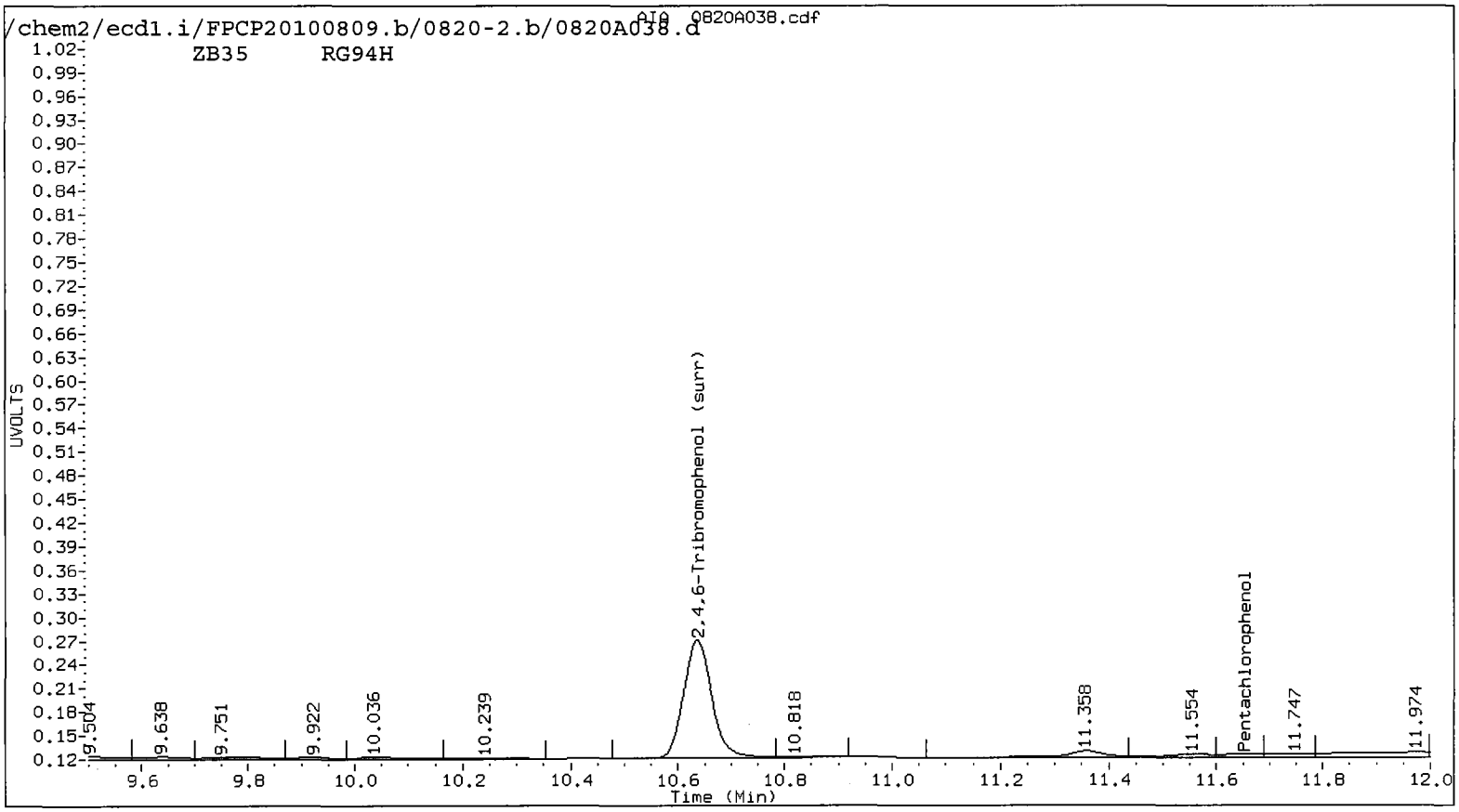
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A038.d ARI ID: RG94H
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A038.d Client ID: MW12-8-9.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 02:11
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
----			11.653	-0.005	10816	0.0000	0.4711	---	Pentachlorophenol
7.287	0.023	15814	7.376	0.043	36805	1.6544	2.9480	56.2*	2,4,6-Trichlorophenol
7.679	0.060	8199	7.849	-0.015	8703	0.8376	0.7014	17.7	2,3,6-Trichlorophenol
8.302	0.060	7200	8.659	0.044	10232	1.4266	1.4370	0.7	2,4,5-Trichlorophenol
----			9.367	-0.013	3817	0.0000	0.3951	---	2,3,4-Trichlorophenol
9.019	0.012	26748	9.269	-0.008	8811	1.8963	0.4759	119.8*	2,3,5,6-Tetrachlorophenol
10.404	-0.009	1836	----			0.1460	0.0000	---	2,3,4,5-Tetrachlorophenol
6.905	0.012	46530	----			80.9198	0.0000	---	2,4-Dichlorophenol
9.994	-0.008	198479	10.635	-0.011	273630	15.4	14.7	5.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	61.8	58.6


/chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A038.d
0820A038.cdf
ZB5 RG94H
UVOLTS
Time (Min)
9.526
2,4,6-Tribromophenol (surr)
10.265
2,3,4,5-Tetrachlorophenol
10.471
10.613
11.430
11.586
11.656
11.724
11.819
11.888


/chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A038.d
0820A038.cdf
ZB35 RG94H
UVOLTS
Time (Min)
9.504
9.638
9.751
9.922
10.036
10.239
2,4,6-Tribromophenol (surr)
10.818
11.358
11.554
Pentachlorophenol
11.747
11.974

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A038.d

Page 1

Date : 21-AUG-2010 02:11

Client ID: MW12-8-9.5-080210

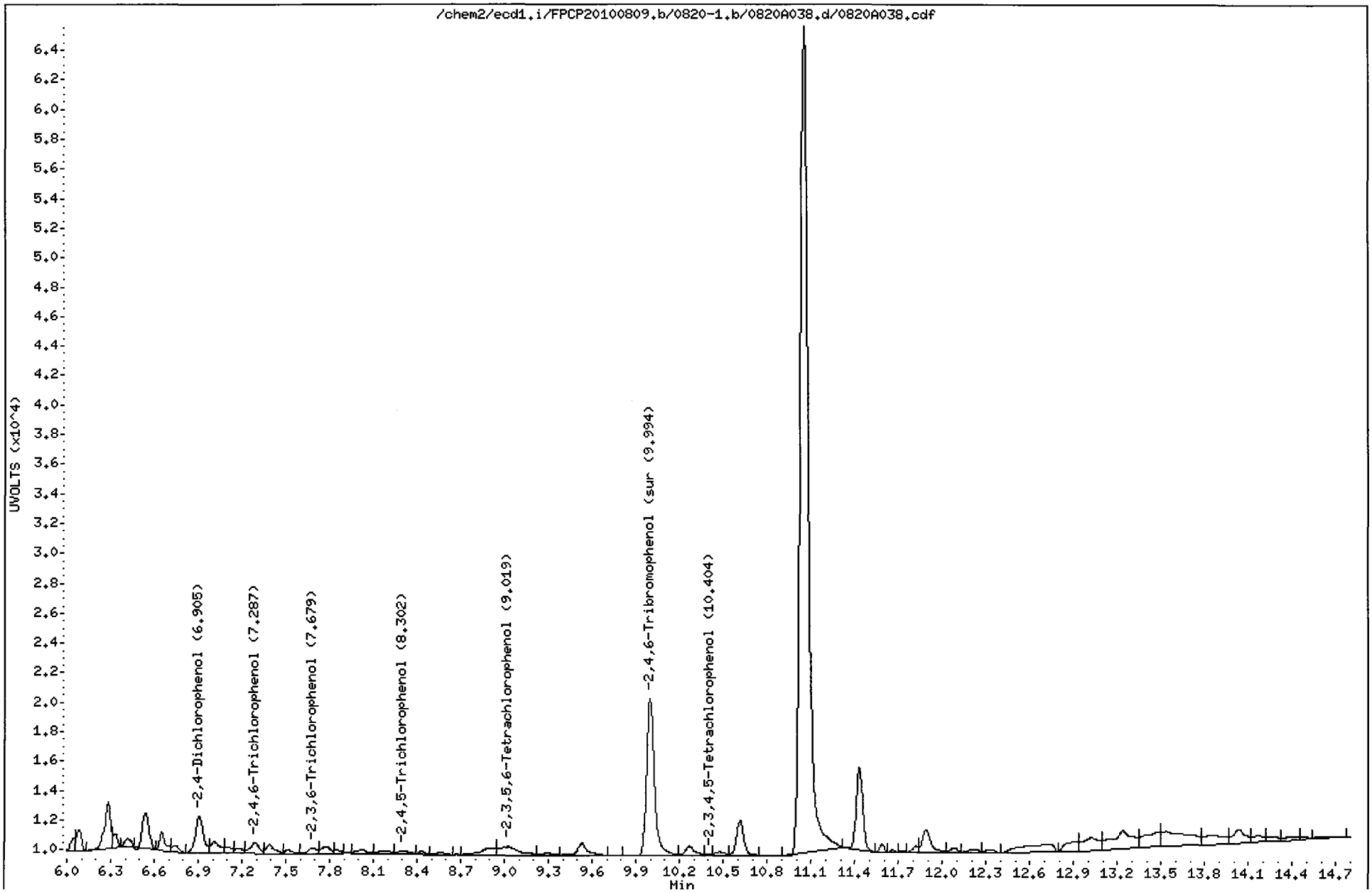
Instrument: ecd1.i

Sample Info: RG94H

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG94 : 0157

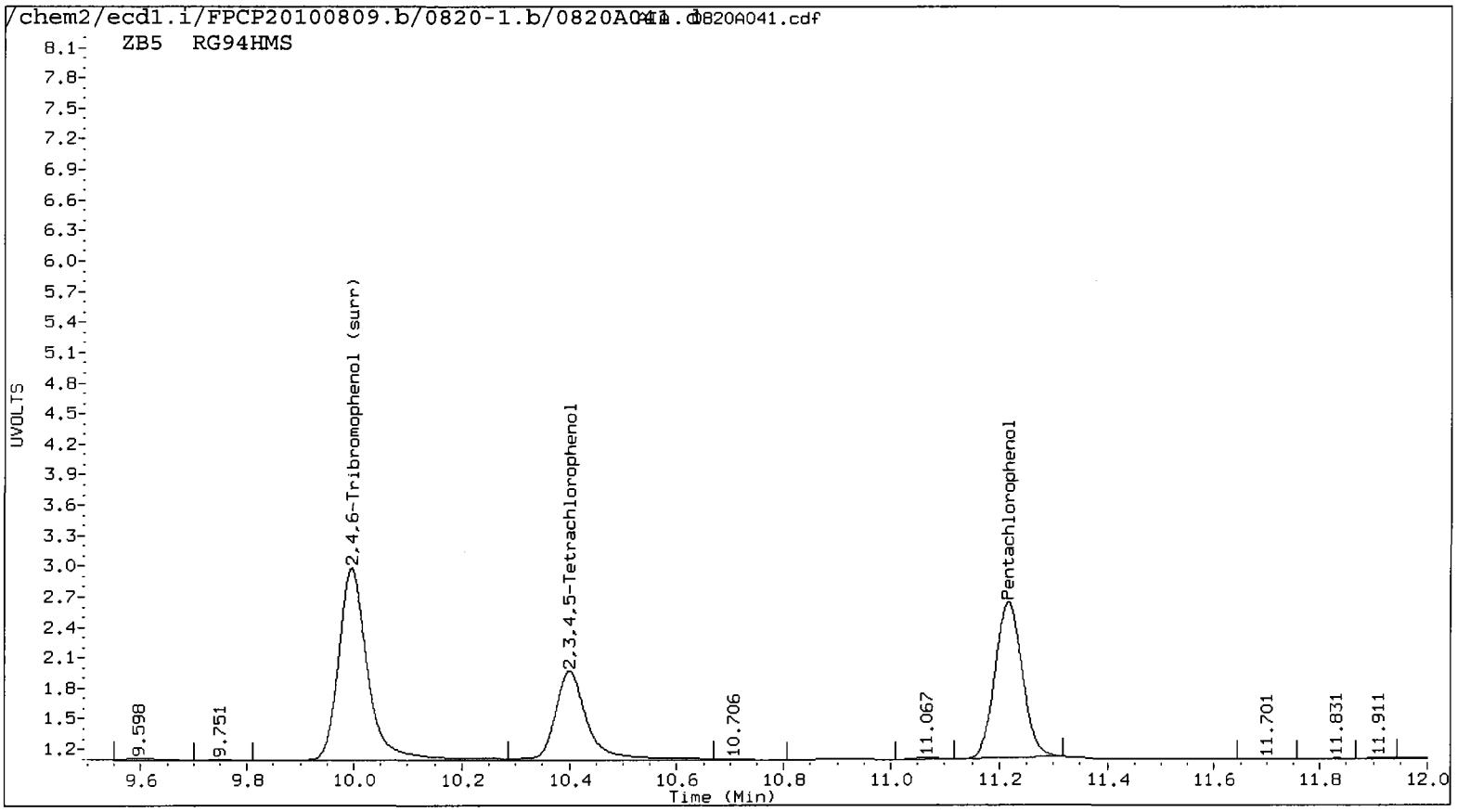
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A041.d ARI ID: RG94HMS
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A041.d Client ID: MW12-8-9.5-0802 MS
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 03:11
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.217	-0.002	265710	11.653	-0.005	413866	16.3980	18.0244	9.4	Pentachlorophenol
7.266	0.002	156571	7.333	0.000	224015	17.9375	17.9434	0.0	2,4,6-Trichlorophenol
7.619	0.000	151861	7.860	-0.004	200733	16.6751	16.1771	3.0	2,3,6-Trichlorophenol
8.227	-0.015	104688	8.597	-0.018	113958	20.7406	17.5917	16.4	2,4,5-Trichlorophenol
8.777	-0.015	98495	9.363	-0.017	152899	14.3976	17.4377	19.1	2,3,4-Trichlorophenol
9.001	-0.006	235676	9.265	-0.012	299307	16.7080	16.1658	3.3	2,3,5,6-Tetrachlorophenol
10.400	-0.013	187698	11.111	-0.015	241832	17.3067	16.5744	4.3	2,3,4,5-Tetrachlorophenol
6.892	-0.001	78389	7.160	-0.006	111422	146.4691	171.1599	15.5	2,4-Dichlorophenol
9.996	-0.006	363843	10.636	-0.010	540083	30.0	28.9	3.8	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	65.6	72.1
2,4,6-Trichlorophenol	71.7	71.8
2,3,6-Trichlorophenol	66.7	64.7
2,4,5-Trichlorophenol	83.0	70.4
2,3,4-Trichlorophenol	57.6	69.8
2,3,5,6-Tetrachlorophenol	66.8	64.7
2,3,4,5-Tetrachlorophenol	69.2	66.3
2,4-Dichlorophenol	58.6	68.5
2,4,6-TBP (surr)	60.1	57.9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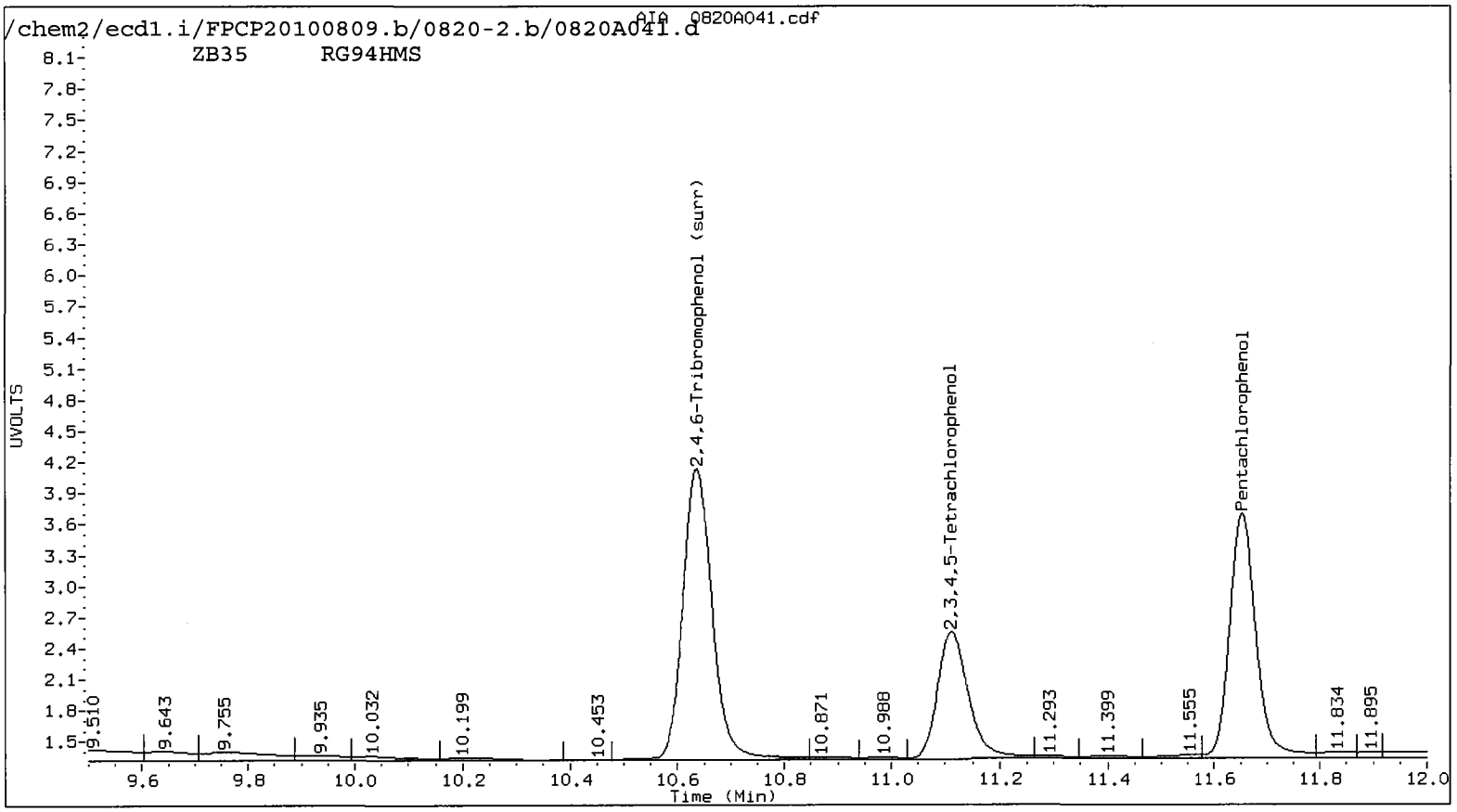
AIA 0820A041.cdf
ZB5 RG94HMS
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.598
9.751
10.706
11.067
11.701
11.831
11.911
Time (Min)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AIA 0820A041.cdf
ZB35 RG94HMS
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.510
9.643
9.755
9.935
10.032
10.199
10.453
10.871
10.988
11.293
11.399
11.555
11.834
11.895
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A041.d

Page 1

Date : 21-AUG-2010 03:11

Client ID: MW12-8-9.5-0802 MS

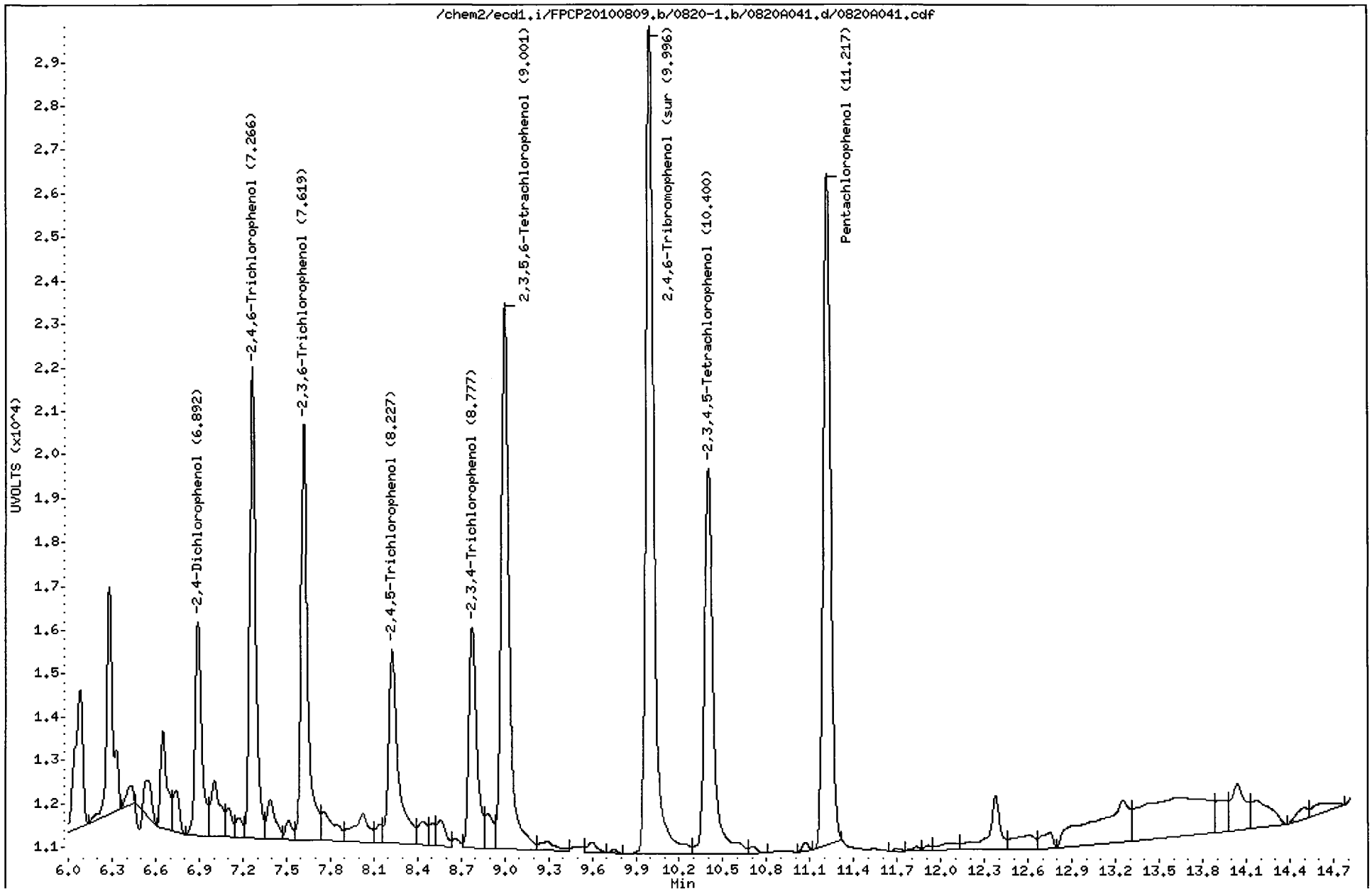
Instrument: ecd1.i

Sample Info: RG94HMS

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG94 : 0116

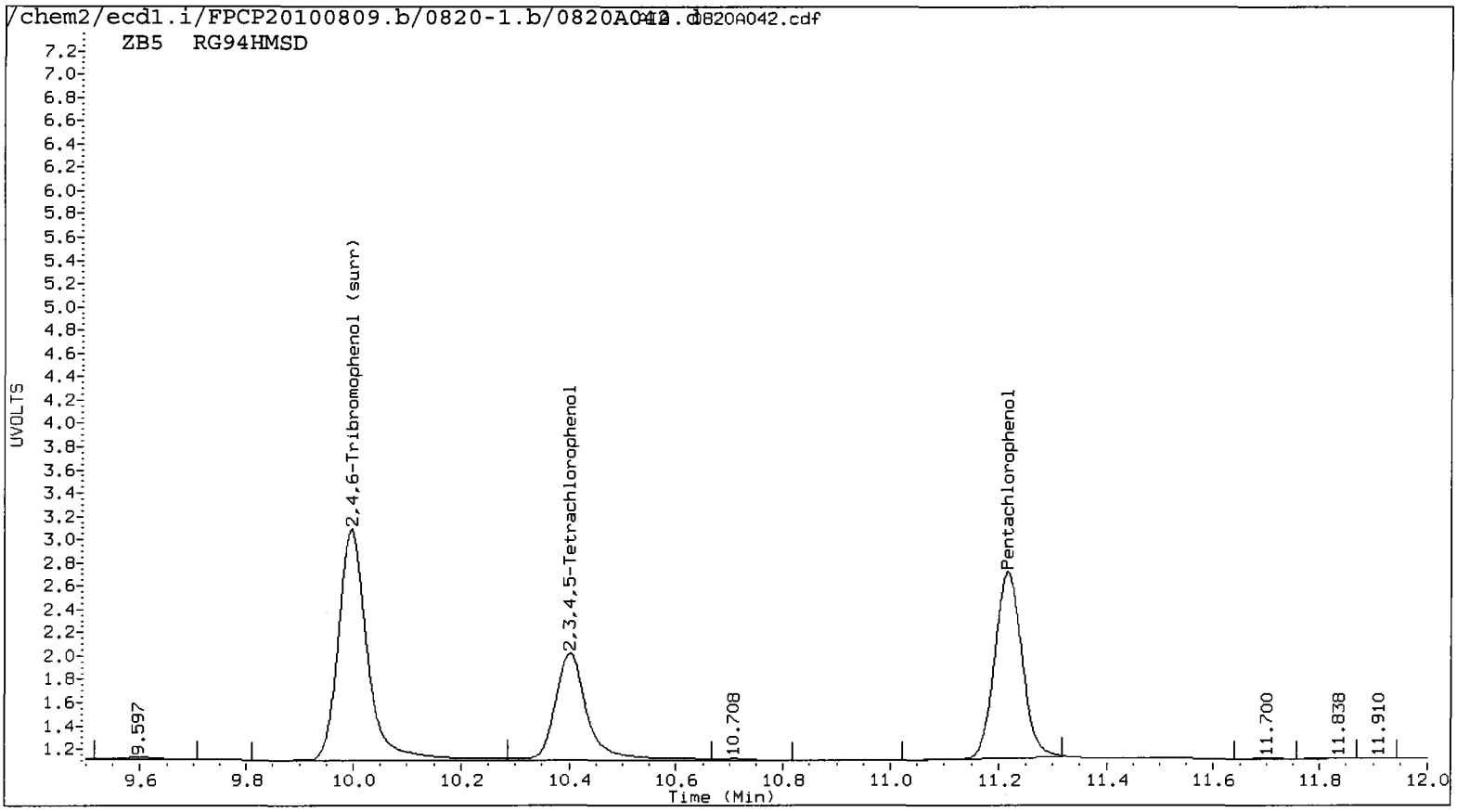
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A042.d ARI ID: RG94HMSD
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A042.d Client ID: MW12-8-9.5-0802 MSD
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 03:31
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.217	-0.002	279154	11.653	-0.005	410788	17.3169	17.8904	3.3	Pentachlorophenol
7.266	0.002	154728	7.333	0.000	225027	17.7062	18.0244	1.8	2,4,6-Trichlorophenol
7.619	0.000	164021	7.861	-0.003	208048	18.1168	16.7666	7.7	2,3,6-Trichlorophenol
8.226	-0.016	100662	8.597	-0.018	123265	19.9429	19.1823	3.9	2,4,5-Trichlorophenol
8.777	-0.015	117196	9.364	-0.016	161300	17.1312	18.4917	7.6	2,3,4-Trichlorophenol
9.001	-0.006	235145	9.266	-0.011	310801	16.6703	16.7866	0.7	2,3,5,6-Tetrachlorophenol
10.401	-0.012	194638	11.112	-0.014	242405	18.0392	16.6137	8.2	2,3,4,5-Tetrachlorophenol
6.891	-0.002	76561	7.160	-0.006	108812	142.4865	166.6154	15.6	2,4-Dichlorophenol
9.996	-0.006	376219	10.637	-0.009	559913	31.2	30.0	3.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	69.3	71.6
2,4,6-Trichlorophenol	70.8	72.1
2,3,6-Trichlorophenol	72.5	67.1
2,4,5-Trichlorophenol	79.8	76.7
2,3,4-Trichlorophenol	68.5	74.0
2,3,5,6-Tetrachlorophenol	66.7	67.1
2,3,4,5-Tetrachlorophenol	72.2	66.5
2,4-Dichlorophenol	57.0	66.6
2,4,6-TBP (surr)	62.4	60.0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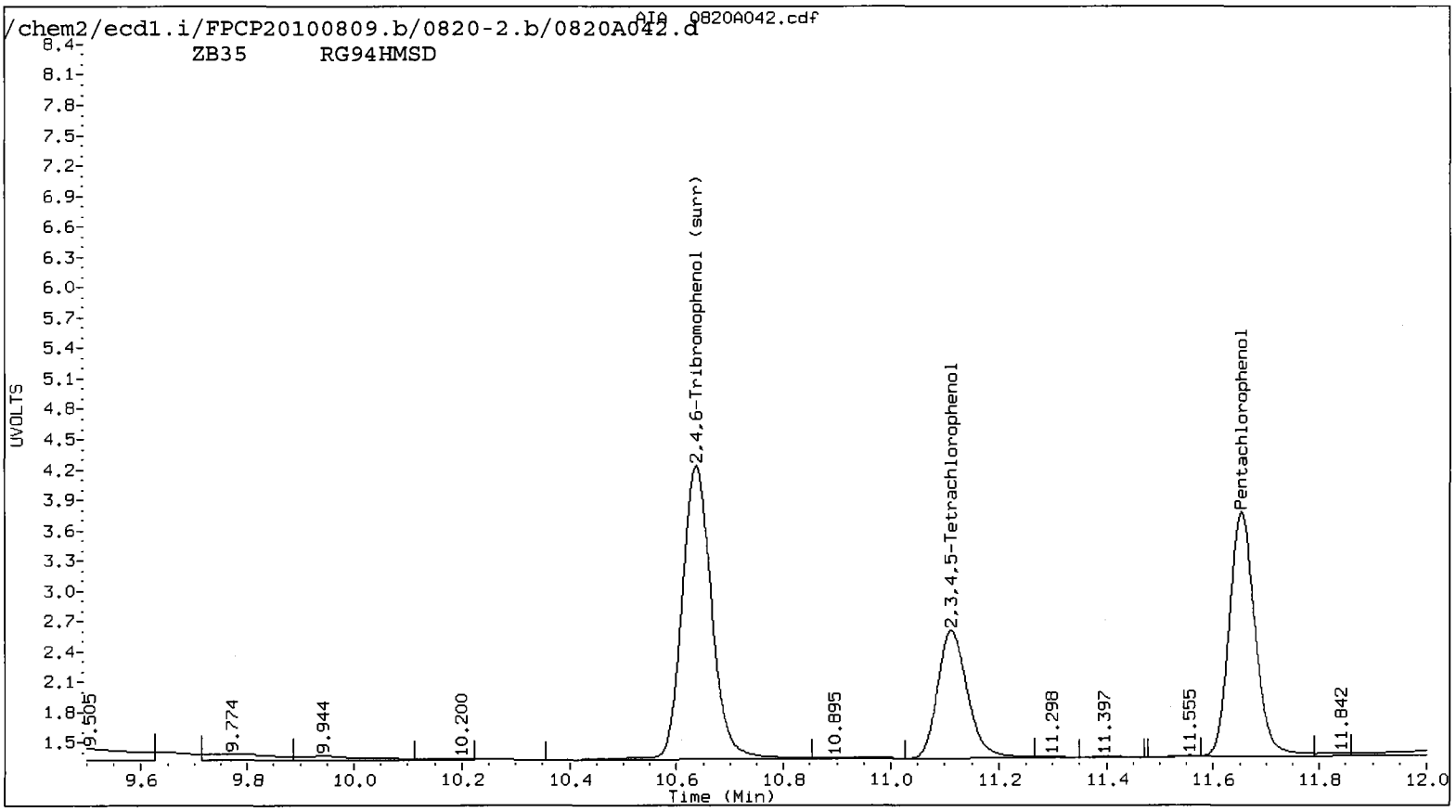
0820A042.cdf
ZB5 RG94HMSD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.597
10.708
11.700
11.838
11.910
Time (Min)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AIA 0820A042.cdf
ZB35 RG94HMSD
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.505
9.774
9.944
10.200
10.895
11.298
11.397
11.555
11.842
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A042.d

Date : 21-AUG-2010 03:31

Client ID: MW12-8-9.5-0802 MSD

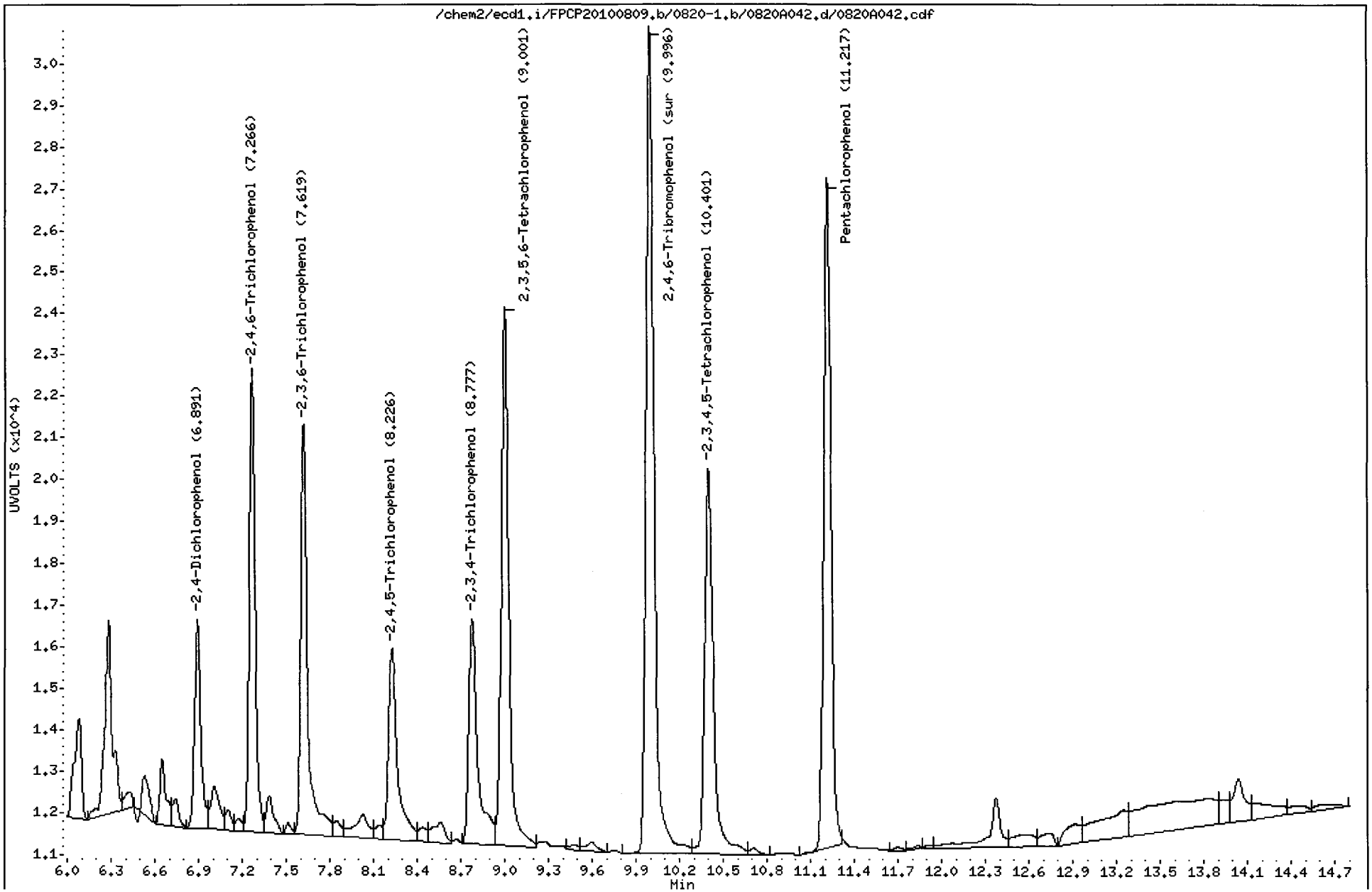
Sample Info: RG94HMSD

Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



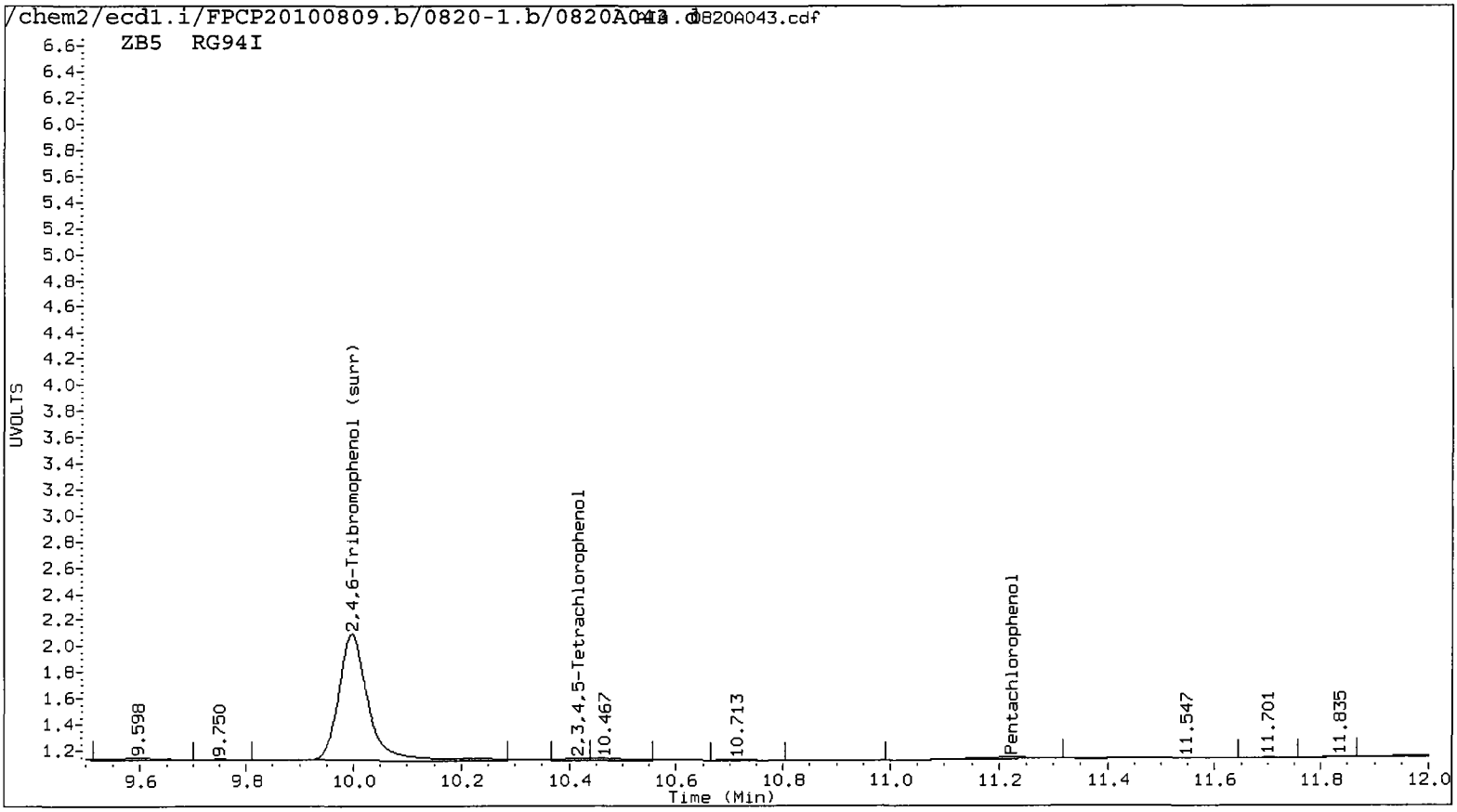
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A043.d ARI ID: RG94I
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A043.d Client ID: MW12-10-11.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 03:51
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.222	0.003	4376	11.661	0.003	3447	0.2429	0.1501	47.2*	Pentachlorophenol
7.288	0.024	16647	7.371	0.038	20933	1.7426	1.6768	3.9	2,4,6-Trichlorophenol
7.682	0.063	8788	7.846	-0.018	10164	0.8980	0.8192	9.2	2,3,6-Trichlorophenol
8.264	0.022	2806	8.574	-0.041	2457	0.5561	0.3426	47.5*	2,4,5-Trichlorophenol
----			9.380	0.000	4295	0.0000	0.4447	---	2,3,4-Trichlorophenol
9.020	0.013	19482	9.263	-0.014	8655	1.3812	0.4675	98.9*	2,3,5,6-Tetrachlorophenol
10.416	0.003	2451	----			0.1949	0.0000	---	2,3,4,5-Tetrachlorophenol
6.854	-0.039	3978	7.161	-0.005	6902	6.2312	9.2417	38.9	2,4-Dichlorophenol
9.996	-0.006	187349	10.636	-0.010	268645	14.5	14.4	0.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	58.1	57.6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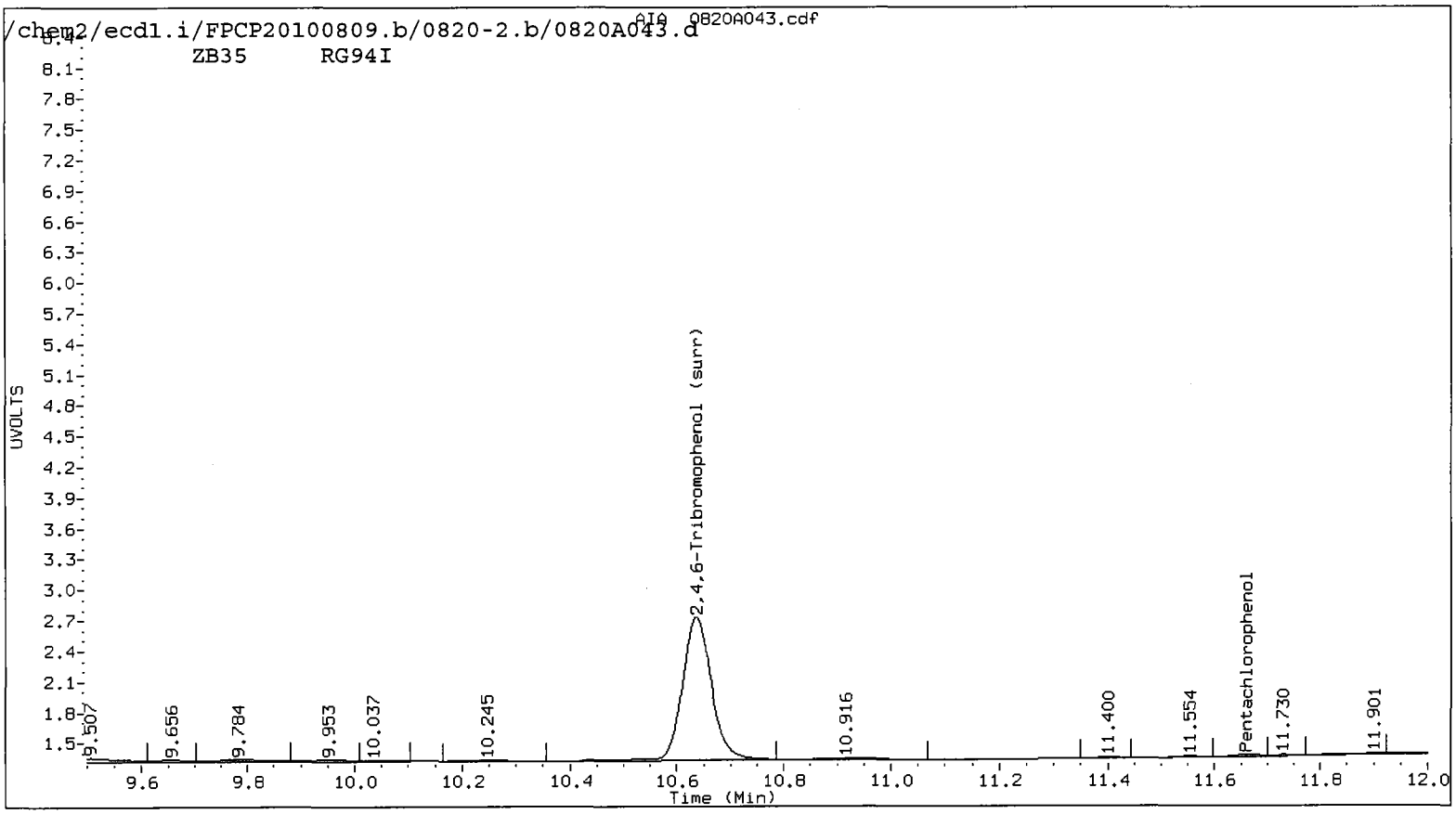
0820A043.cdf
ZB5 RG94I
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.598
9.750
10.467
10.713
11.547
11.701
11.835
Time (Min)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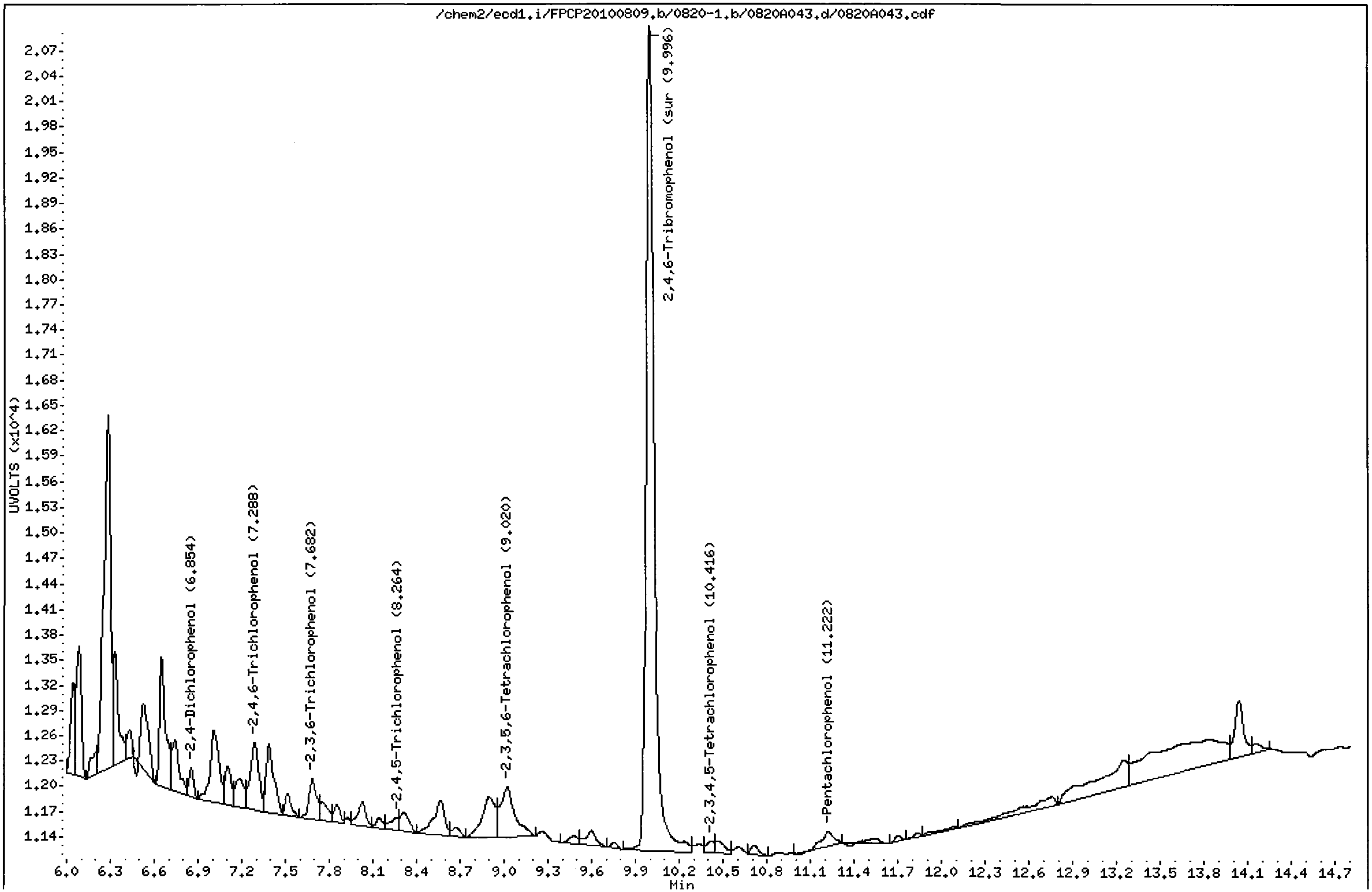
0820A043.cdf
ZB35 RG94I
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.507
9.656
9.784
9.953
10.037
10.245
10.916
11.400
11.554
11.730
11.901
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A043.d
Date : 21-AUG-2010 03:51
Client ID: MW12-10-11.5-080210
Sample Info: RG94I

Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



AR 8/21/2010

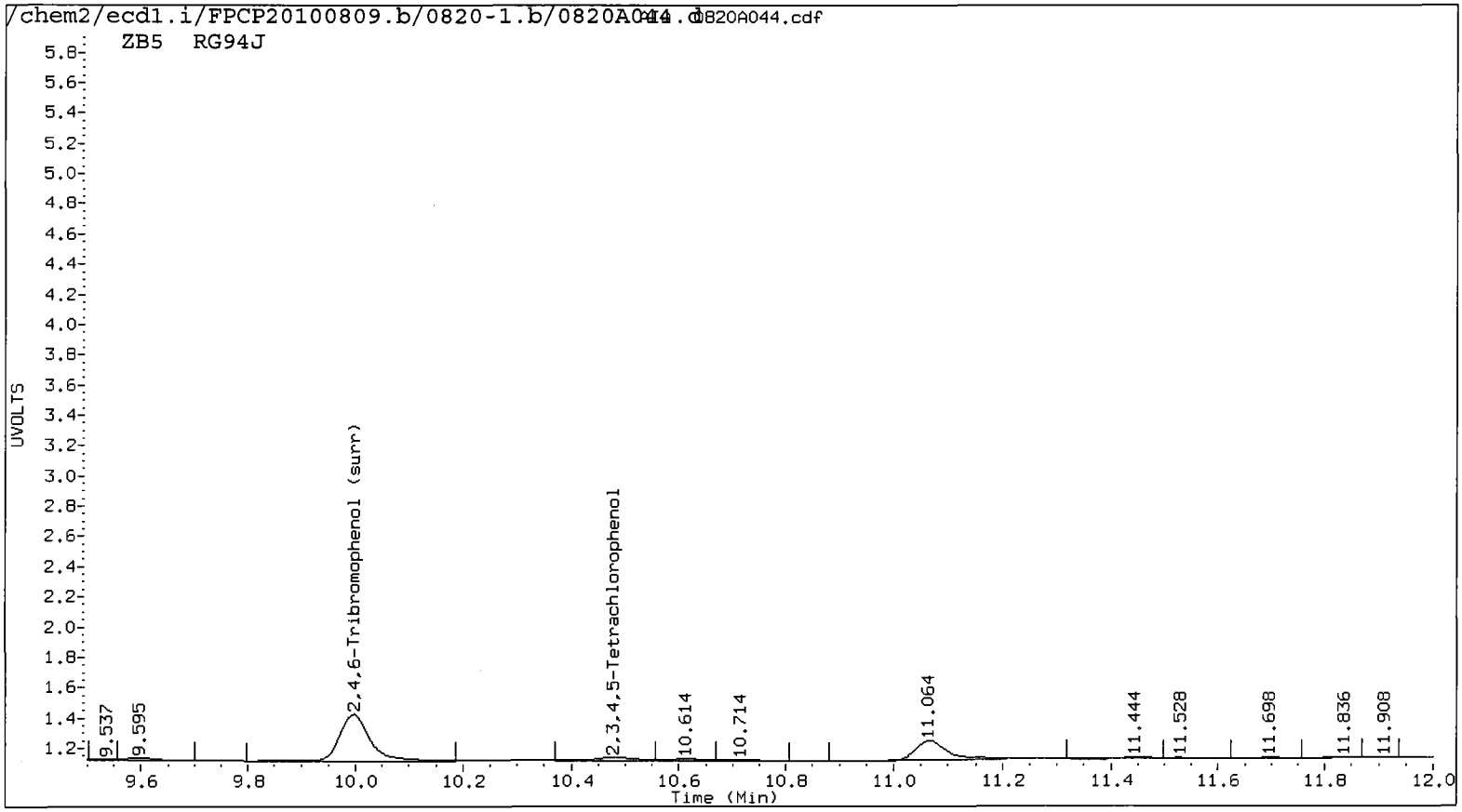
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A044.d ARI ID: RG94J
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A044.d Client ID: MW12-17.5-19-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 04:11
Compound Sublist: all Report Date: 08/21/2010 13:12
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
----			11.670	0.012	1242	0.0000	0.0541	---	Pentachlorophenol
7.288	0.024	14088	7.373	0.040	24025	1.4722	1.9244	26.6	2,4,6-Trichlorophenol
7.625	0.006	1174	7.843	-0.021	11688	0.1195	0.9419	155.0*	2,3,6-Trichlorophenol
8.300	0.058	4828	8.667	0.052	4782	0.9566	0.6681	35.5	2,4,5-Trichlorophenol
----			9.386	0.006	3508	0.0000	0.3630	---	2,3,4-Trichlorophenol
9.022	0.015	18538	9.266	-0.011	8236	1.3143	0.4449	98.8*	2,3,5,6-Tetrachlorophenol
10.478	0.065	7110	----			0.5677	0.0000	---	2,3,4,5-Tetrachlorophenol
6.904	0.011	20626	7.165	-0.001	5670	33.7006	7.5790	126.6*	2,4-Dichlorophenol
9.996	-0.006	61441	10.637	-0.009	78640	4.5	4.2	7.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2	
2,4,6-TBP (surr)	18.1	16.9	10% limit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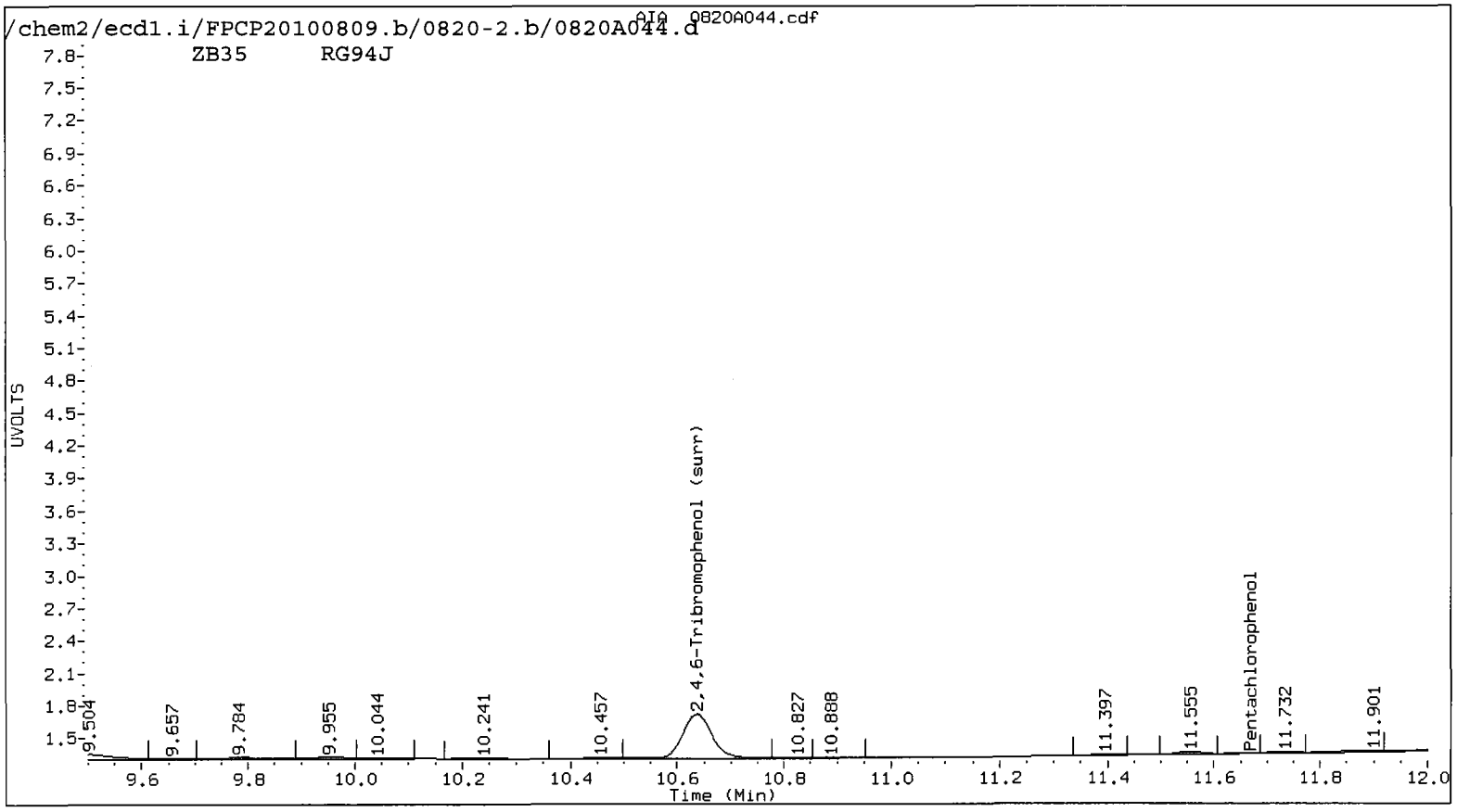
0820A044.cdf
ZB5 RG94J
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
9.537
9.595
10.614
10.714
11.064
11.444
11.528
11.698
11.836
11.908
Time (Min)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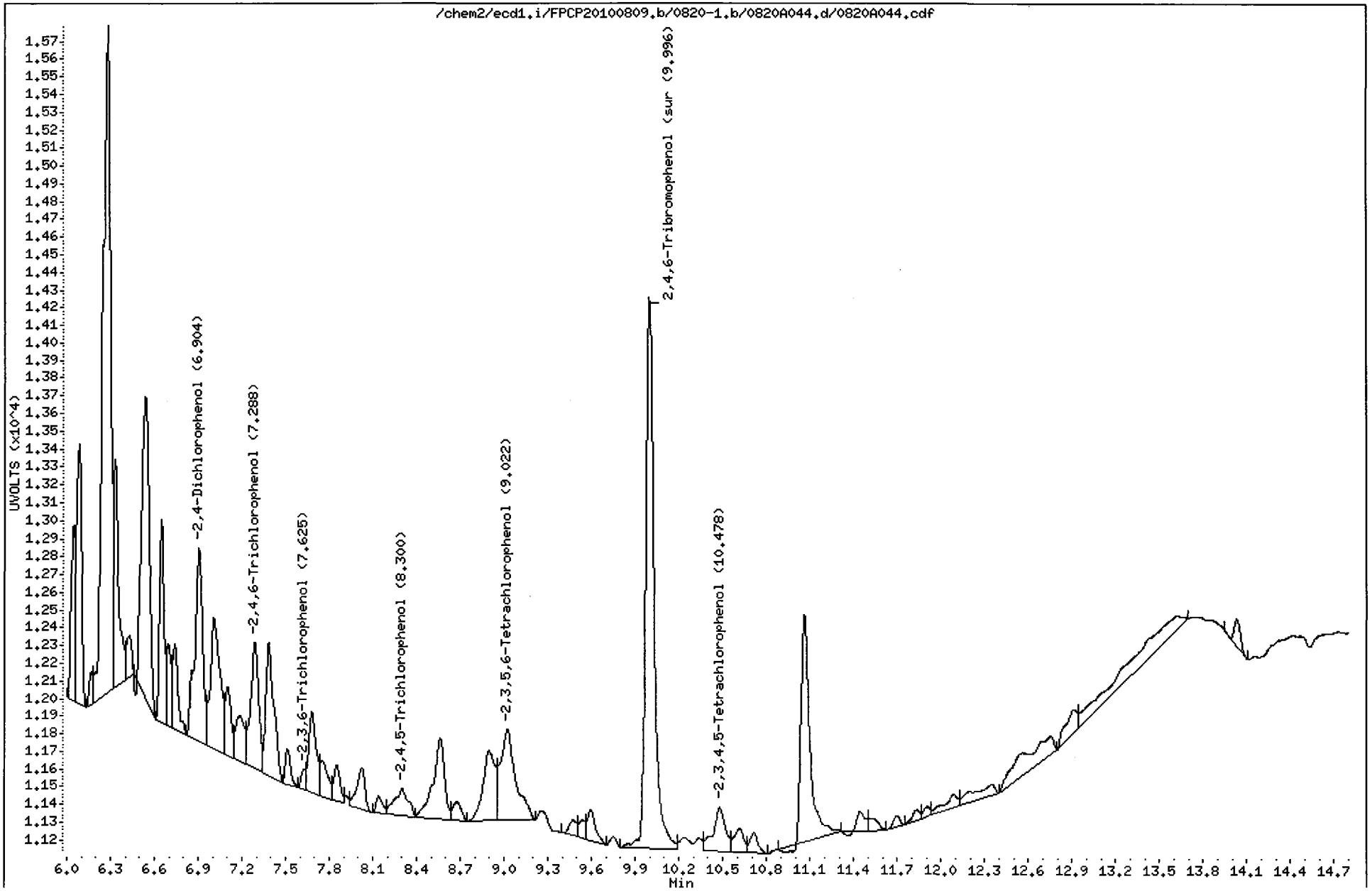
0820A044.cdf
ZB35 RG94J
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
9.504
9.657
9.784
9.955
10.044
10.241
10.457
10.827
10.888
11.397
11.555
11.732
11.901
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A044.d
Date : 21-AUG-2010 04:11
Client ID: MW12-17.5-19-080210
Sample Info: RG94J

Instrument: ecd1.i
Operator: ar
Column phase: ZB5
Column diameter: 0.53



RG94J : 01/03

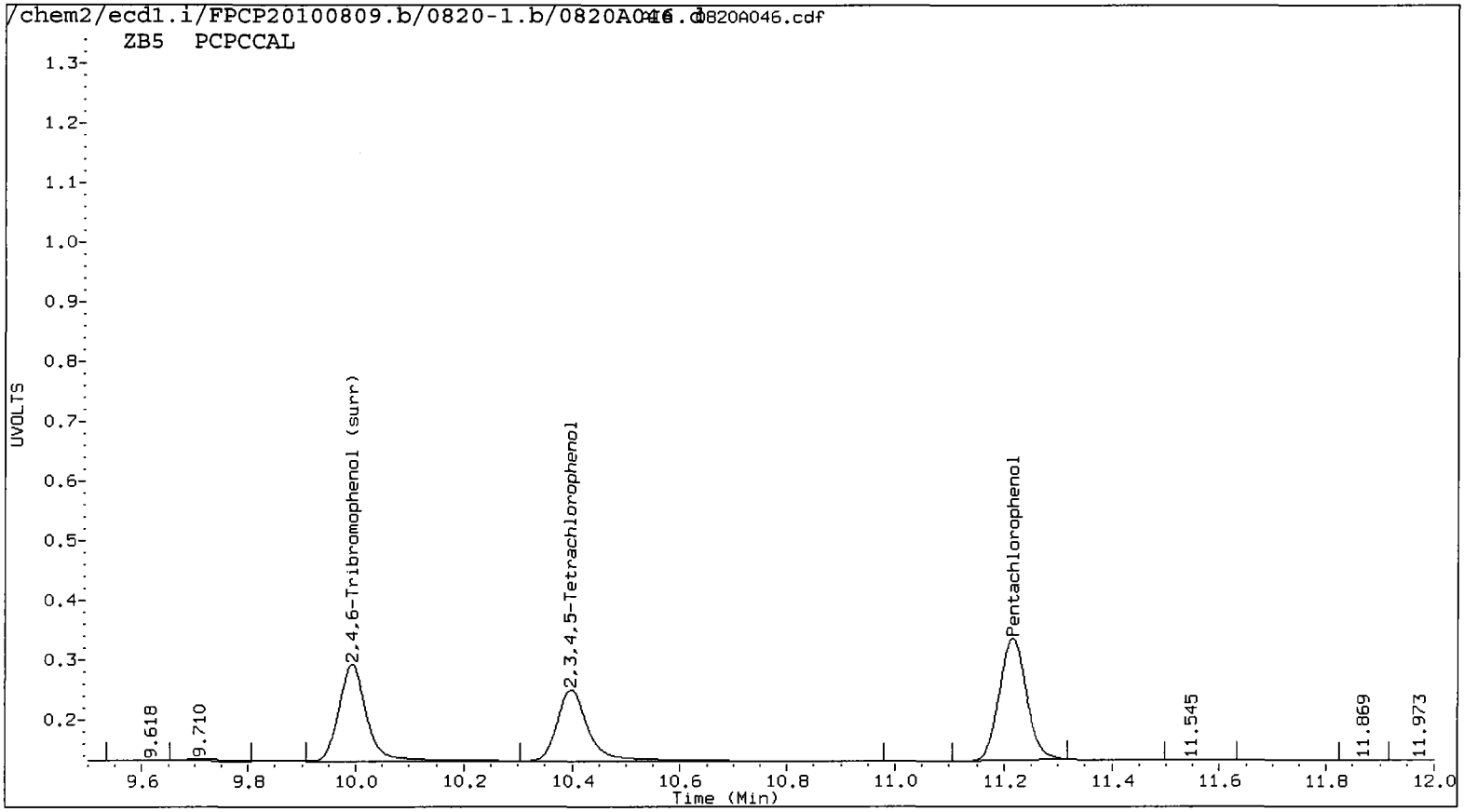
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A046.d ARI ID: PCPCCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0820-2.b/0820A046.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 21-AUG-2010 04:51
Compound Sublist: all Report Date: 08/21/2010 13:35
Instrument: ecd1.i Matrix: WATER
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.215	-0.004	352357	11.651	-0.007	534239	22.4705	23.2668	3.5	Pentachlorophenol
7.264	0.000	206039	7.332	-0.001	292297	24.3251	23.4126	3.8	2,4,6-Trichlorophenol
7.617	-0.002	208949	7.860	-0.004	280523	23.5798	22.6073	4.2	2,3,6-Trichlorophenol
8.221	-0.021	118804	8.593	-0.022	155171	23.5371	24.8122	5.3	2,4,5-Trichlorophenol
8.770	-0.022	152364	9.358	-0.022	200141	22.2720	23.4944	5.3	2,3,4-Trichlorophenol
8.998	-0.009	329443	9.263	-0.014	438565	23.3555	23.6872	1.4	2,3,5,6-Tetrachlorophenol
10.398	-0.015	248476	11.110	-0.016	334139	23.9447	22.9008	4.5	2,3,4,5-Tetrachlorophenol
6.889	-0.004	108734	7.159	-0.007	141264	216.5759	224.9592	3.8	2,4-Dichlorophenol
9.993	-0.009	294698	10.634	-0.012	439366	23.7	23.5	0.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	89.9	93.1
2,4,6-Trichlorophenol	97.3	93.7
2,3,6-Trichlorophenol	94.3	90.4
2,4,5-Trichlorophenol	94.1	99.2
2,3,4-Trichlorophenol	89.1	94.0
2,3,5,6-Tetrachlorophenol	93.4	94.7
2,3,4,5-Tetrachlorophenol	95.8	91.6
2,4-Dichlorophenol	86.6	90.0
2,4,6-TBP (surr)	95.0	94.1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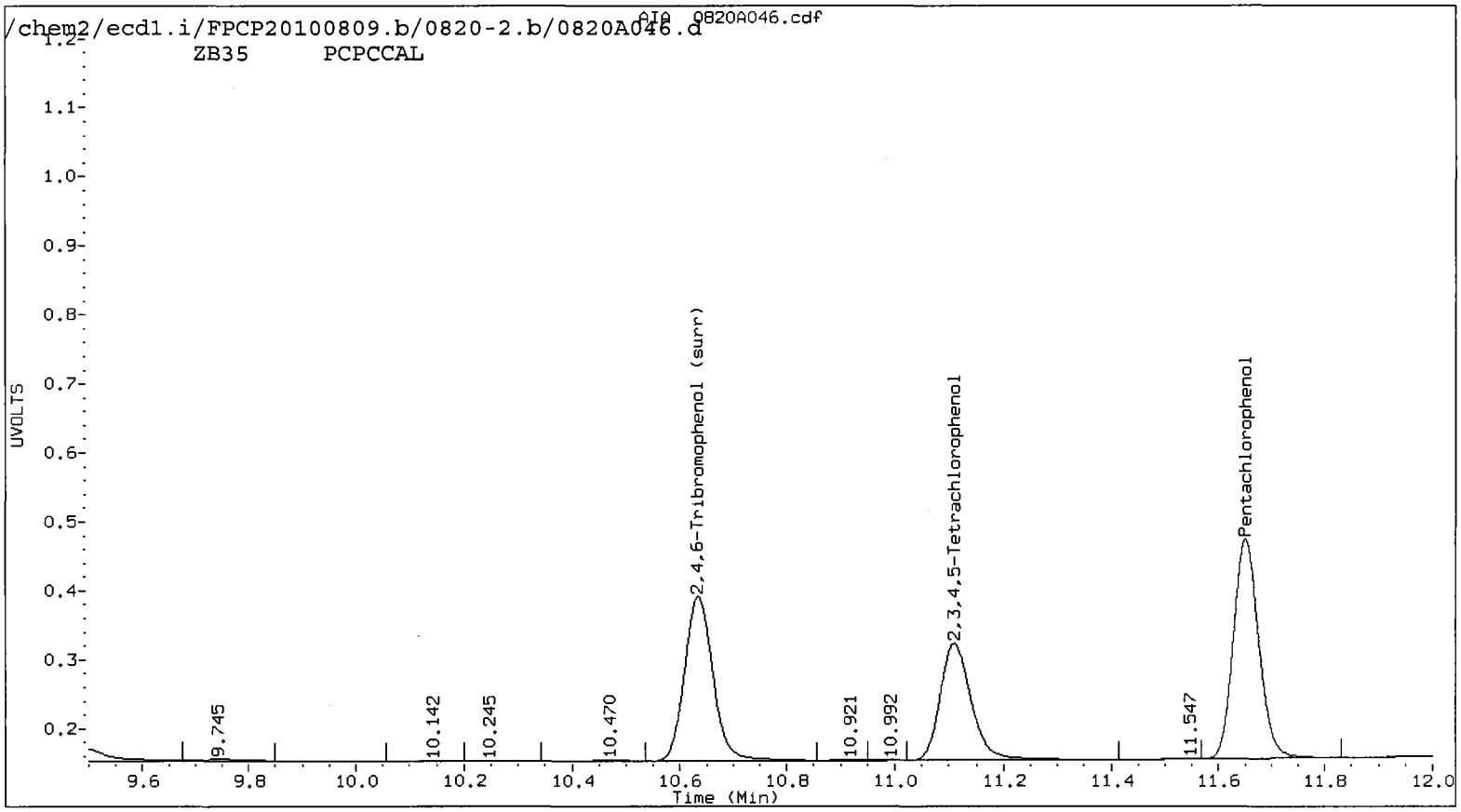
0820A046.cdf
ZB5 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.618
9.710
11.545
11.869
11.973
Time (Min)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0820A046.cdf
ZB35 PCPCCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.745
10.142
10.245
10.470
10.921
10.992
11.547
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0820-1.b/0820A046.d

Date : 21-AUG-2010 04:51

Client ID:

Instrument: ecd1.i

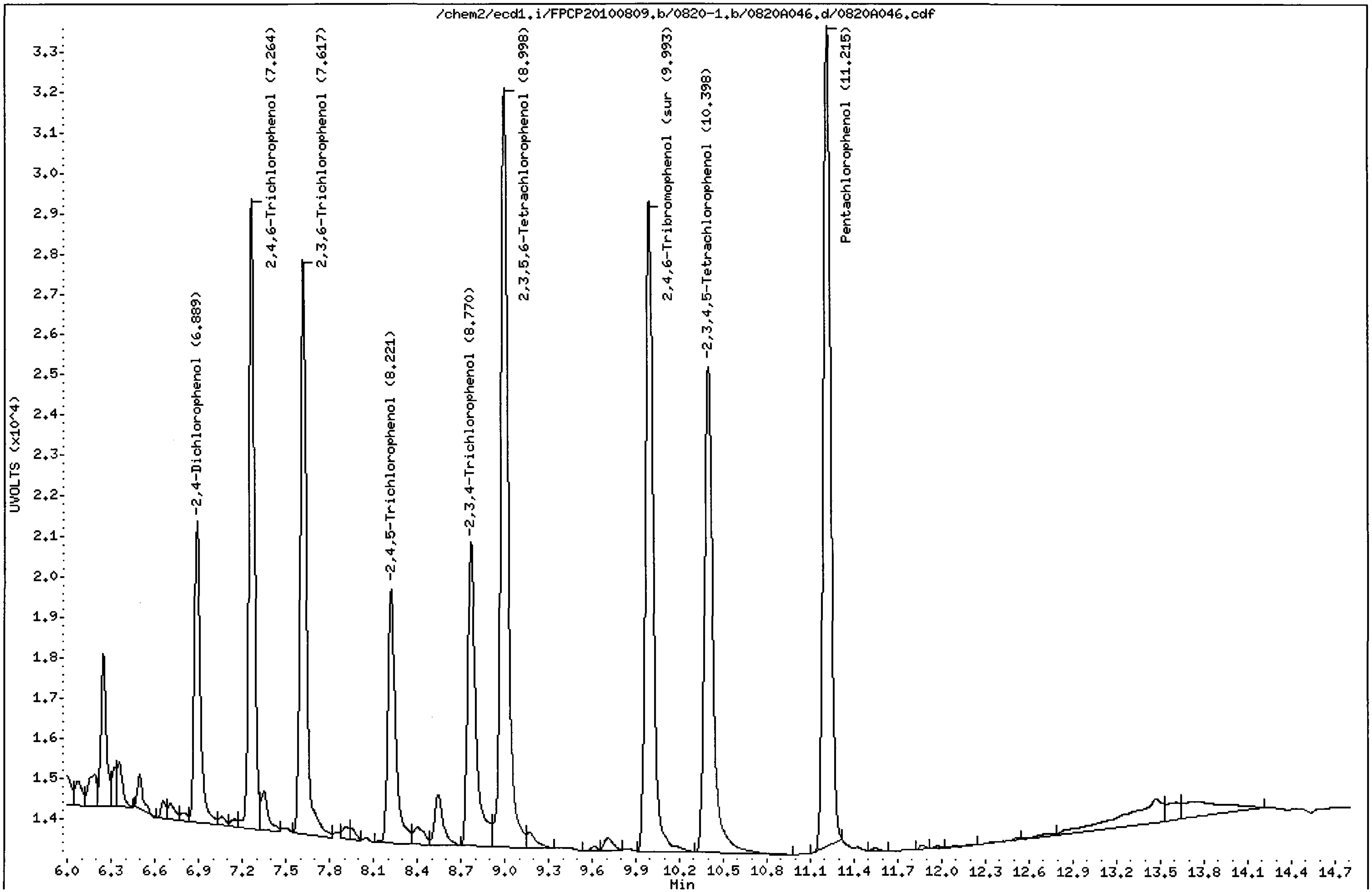
Sample Info: PCPCCAL

Purge Volume: 2.0

Operator: ar

Column phase: ZB5

Column diameter: 0.53



RG94:01172

Analytical Resources Inc.: Organics Instrument Log

ECD1 Serial No.: 3410A39690

Date: 09/01/10 Analysis: PCP Analyst: YZ

GC Program: PCP Fast Column No: 150608/148146 Column Type: ZB5/35

Instrument Tune (.U or .CT.): nd EM Voltage:

Calibration File: FPCP20100809 Curve Date: 08/09/2010

IS/SS	Ical/Ccal	LCS/ICV
	1663-2/1739-1	1703-2 & 1738-2

GC LOG SUMMARY FOR DATABATCH - /chem2/ecd1.i/FPCP20100809.b/0901-1.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	01-SEP-2010 11:15	0901A004.d	1	PCP CCAL	
2	01-SEP-2010 11:35	0901A005.d	1	PCP CCAL	
3	01-SEP-2010 11:54	0901A006.d	1	RG78MBS2	RG78MBS2
4	01-SEP-2010 12:14	0901A007.d	1	RG78LCSS2	RG78LCSS2
5	01-SEP-2010 12:34	0901A008.d	1	RG78S	PSB9-8.5-9.5-073010
6	01-SEP-2010 12:54	0901A009.d	1	RG94A	MW14-15-16.5-080210
7	01-SEP-2010 13:14	0901A010.d	1	RG94E	MW13-18.5-19.5-0802
8	01-SEP-2010 13:34	0901A011.d	1	RG94F	MW13-18.5-19.5-0802
9	01-SEP-2010 13:54	0901A012.d	1	PCP CCAL	
10	01-SEP-2010 14:14	0901A013.d	1	RG78S	PSB9-8.5-9.5-073010
11	01-SEP-2010 14:34	0901A014.d	1	RG94E	MW13-18.5-19.5-0802
12	01-SEP-2010 14:54	0901A015.d	1	RG94F	MW13-18.5-19.5-0802
13	01-SEP-2010 15:14	0901A016.d	1	PCP CCAL	

YZ 9/1/10

Maintenance / Comments none

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: R694 Client ID: Lloyd Snider

ARI SOP: **403S**(PCB) ~~**405S**(Herb)~~ **407S**(TPH-D) **409S**(HCID) (**412S**(PCP)) **423S**(Pest)
427S(Dir Inj) ~~**428S**(EPH)~~ **432S**(EDB) **Other**

Parameter(s): PCP

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 (ECD-1) ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 08/09/10 Analysis Start: 09/09/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? (YES) / NO

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? (YES) / NO

CCal Meets RF & %RSD Criteria? (YES) / NO Surrogate Recovery In Control? (YES) / NO

Manual Integrations for ICal? (YES) / NO Manual Integrations for Samples? YES / (NO)

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? (YES) / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Samples A E & F were re-derivatized and re-run on the same day.

Additional Details on Reverse: Yes / (No)

Analyst: YZ **Date:** 9/1/10

Reviewer: [signature] **Date:** 9/1/10

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A005.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A005.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar

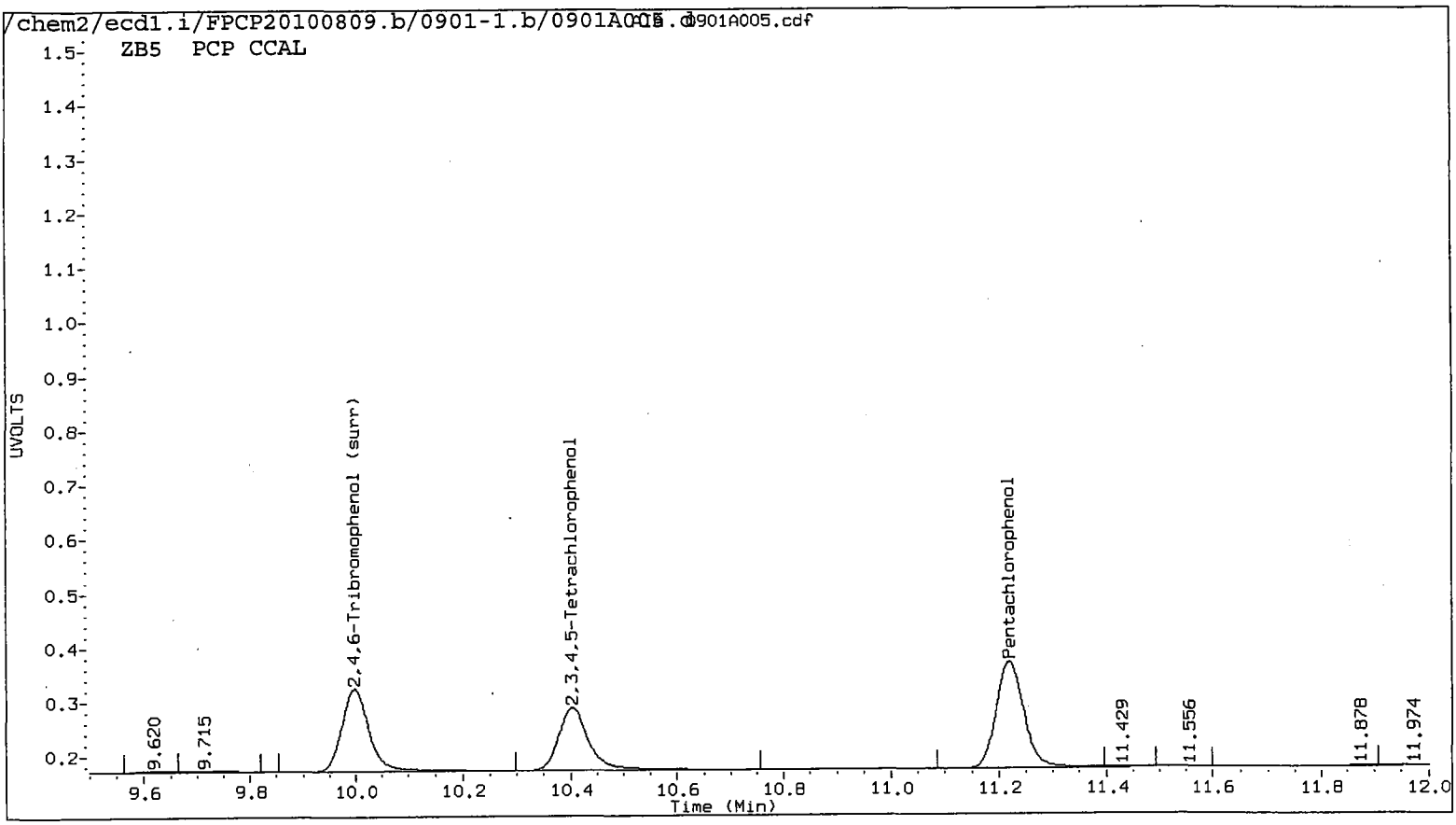
Injection Date: 01-SEP-2010 11:35
Report Date: 09/01/2010 16:16
Matrix: NONE
Dilution Factor: 1.000

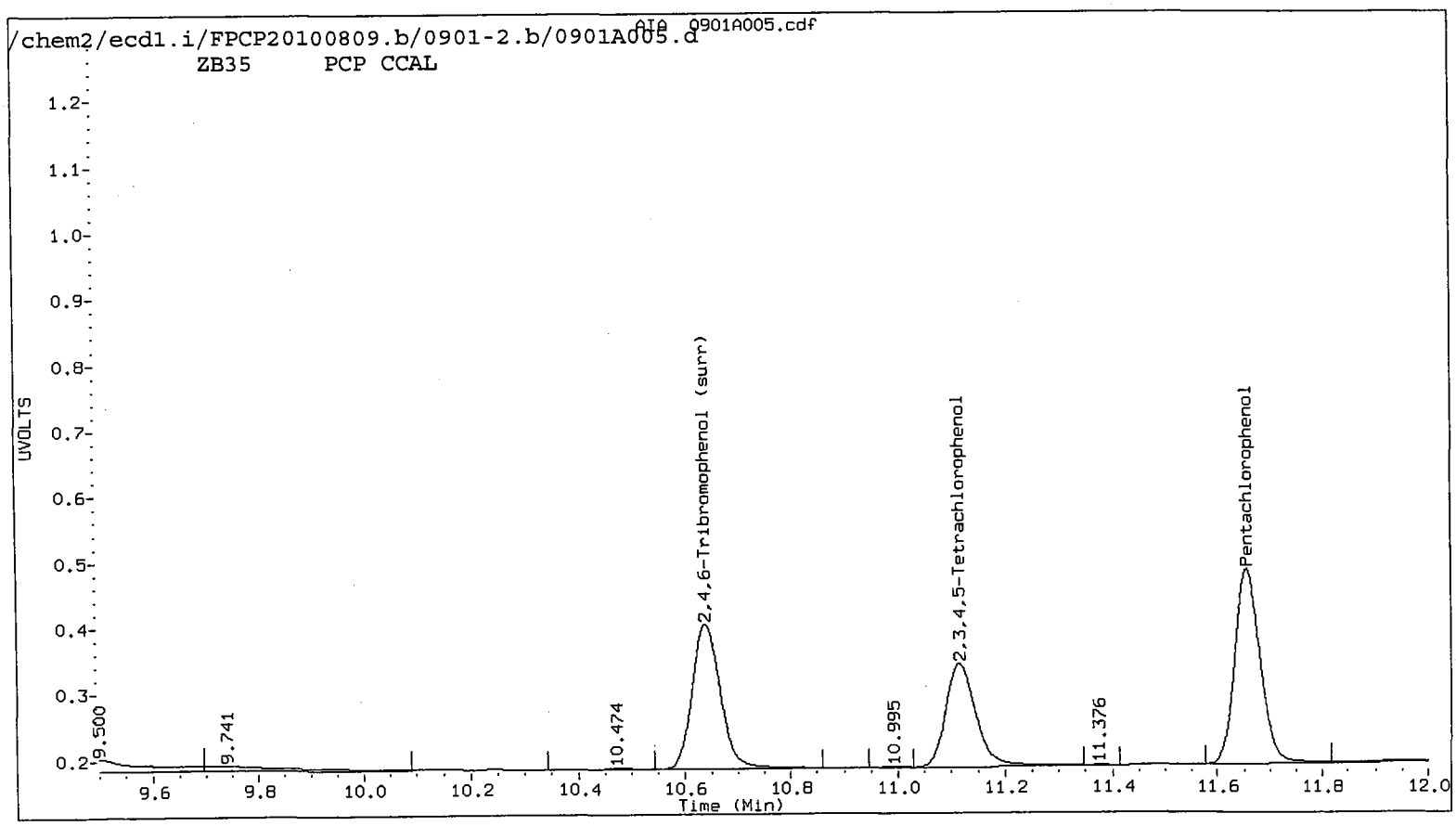
YZ 9/1/10

ZB-5 Col RT	ZB-5 Col Shift	ZB-5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.220	0.001	344826	11.656	-0.002	493554	21.9285	21.4949	2.0	Pentachlorophenol
7.268	0.004	193472	7.336	0.003	269397	22.6695	21.5784	4.9	2,4,6-Trichlorophenol
7.621	0.002	191836	7.864	0.000	260253	21.4735	20.9737	2.4	2,3,6-Trichlorophenol
8.224	-0.018	117874	8.598	-0.017	140174	23.3528	22.1318	5.4	2,4,5-Trichlorophenol
8.774	-0.018	135453	9.364	-0.016	192737	19.7999	22.5243	12.9	2,3,4-Trichlorophenol
9.002	-0.005	301871	9.268	-0.009	410606	21.4008	22.1771	3.6	2,3,5,6-Tetrachlorophenol
10.403	-0.010	226865	11.115	-0.011	305040	21.5264	20.9065	2.9	2,3,4,5-Tetrachlorophenol
6.893	0.000	96784	7.163	-0.003	129069	188.0731	202.5675	7.4	2,4-Dichlorophenol
9.998	-0.004	273962	10.639	-0.007	404181	21.9	21.7	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	87.7	86.0
2,4,6-Trichlorophenol	90.7	86.3
2,3,6-Trichlorophenol	85.9	83.9
2,4,5-Trichlorophenol	93.4	88.5
2,3,4-Trichlorophenol	79.2	90.1
2,3,5,6-Tetrachlorophenol	85.6	88.7
2,3,4,5-Tetrachlorophenol	86.1	83.6
2,4-Dichlorophenol	75.2	81.0
2,4,6-TBP (surr)	87.6	86.6


/chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A005.d
0901A005.cdf
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.620
9.715
11.429
11.556
11.878
11.974
Time (Min)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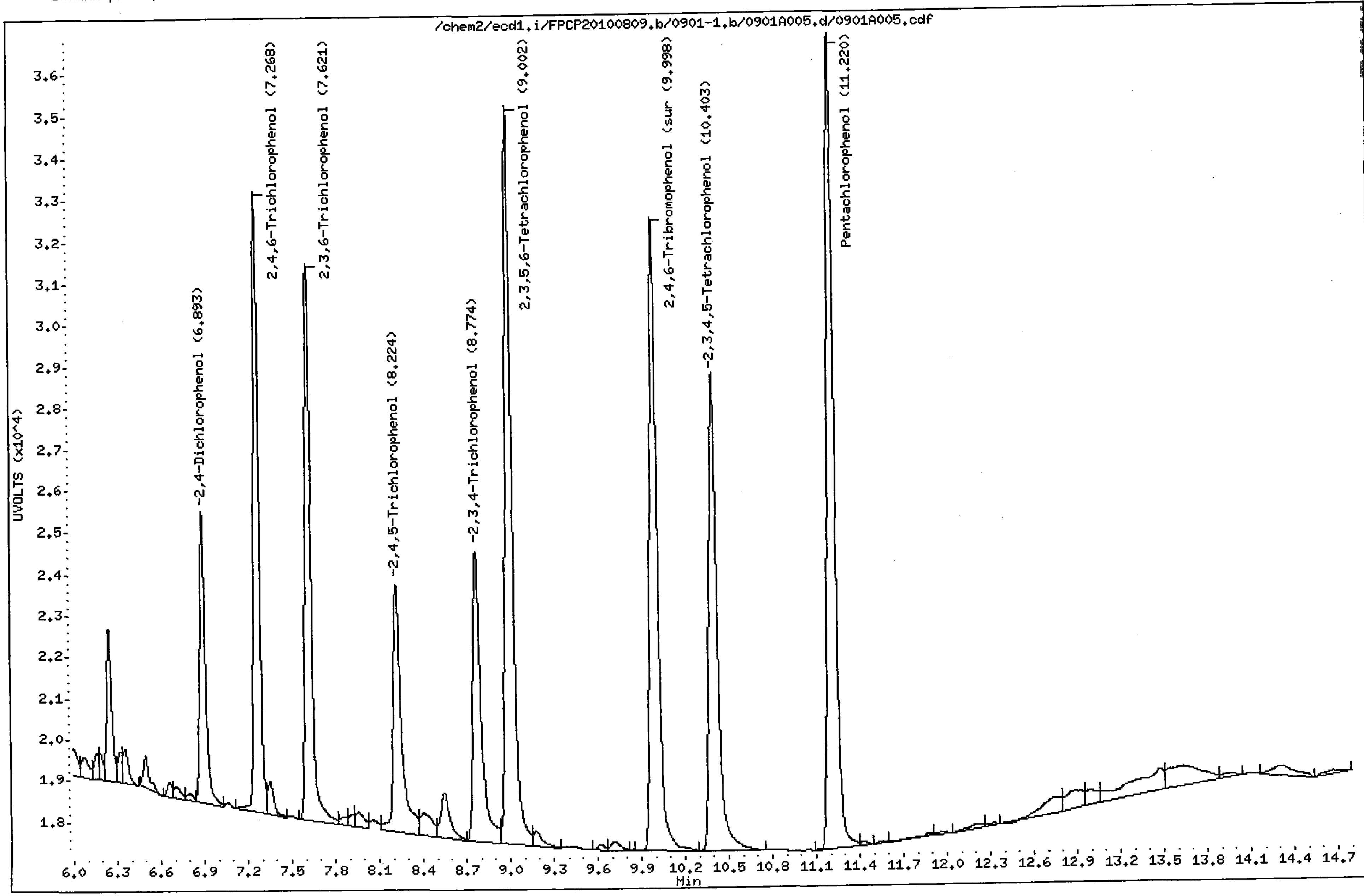
0901A005.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.500
9.741
10.474
10.995
11.376
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A005.d
Date : 01-SEP-2010 11:35
Client ID:
Sample Info: PCP CCAL

Column phase: ZB5

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



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Date : 01-SEP-2010 11:35

Client ID:

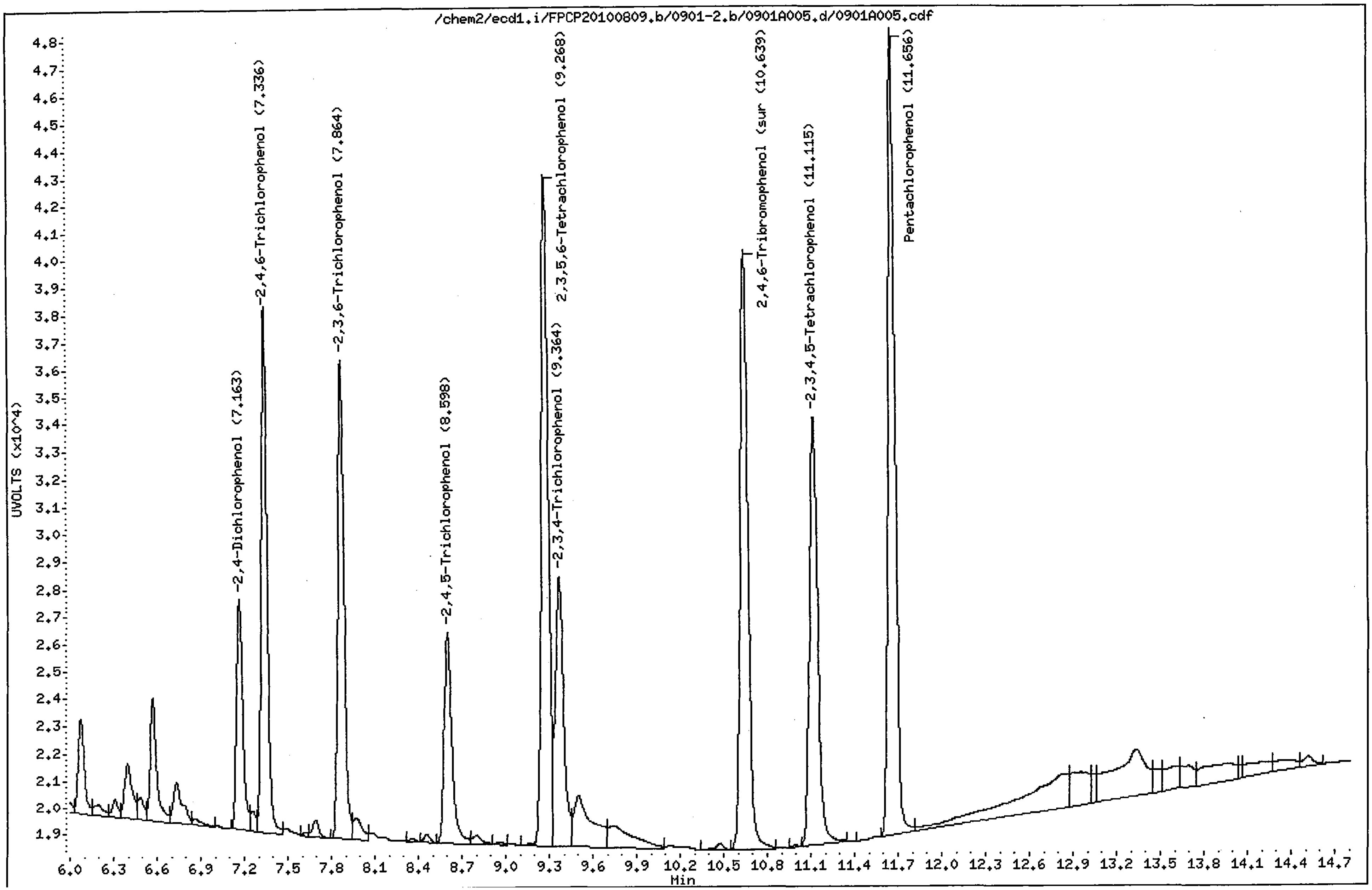
Sample Info: PCP CCAL

Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

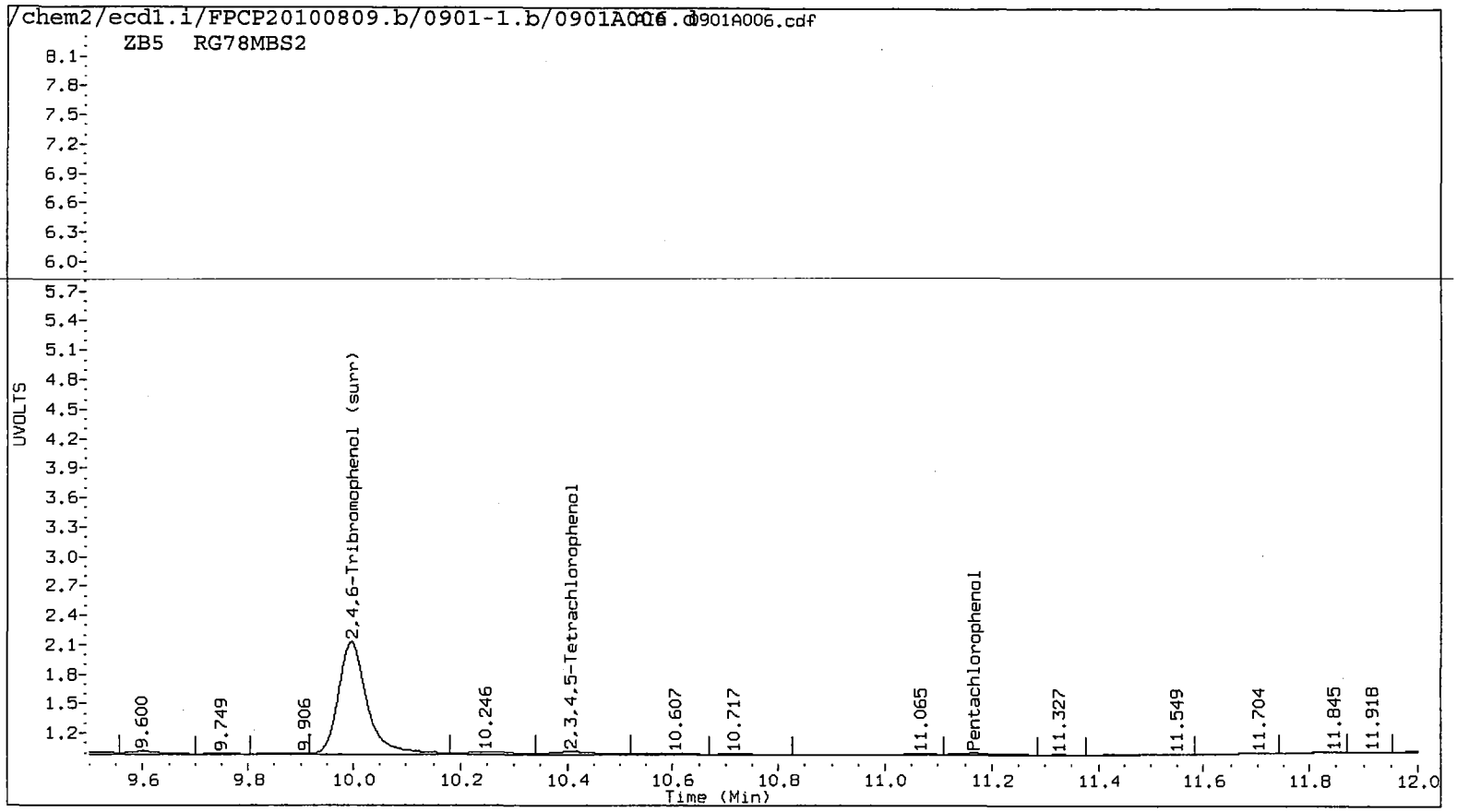
YZ 9/1/10

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A006.d ARI ID: RG78MBS2
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A006.d Client ID: RG78MBS2
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 11:54
Compound Sublist: all Report Date: 09/01/2010 12:43
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.167	-0.052	5133	----			0.2850	0.0000	---	Pentachlorophenol
7.231	-0.033	233856	7.373	0.040	50413	28.0689	4.0380	149.7*	2,4,6-Trichlorophenol
----			7.848	-0.016	21813	0.0000	1.7579	---	2,3,6-Trichlorophenol
8.219	-0.023	8812	8.663	0.048	11346	1.7458	1.5952	9.0	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.021	0.014	25721	9.267	-0.010	39586	1.8235	2.1381	15.9	2,3,5,6-Tetrachlorophenol
10.406	-0.007	12382	----			0.9931	0.0000	---	2,3,4,5-Tetrachlorophenol
6.906	0.013	29032	7.170	0.004	27426	48.4243	37.7815	24.7	2,4-Dichlorophenol
9.996	-0.006	221457	10.637	-0.009	314349	17.4	16.8	3.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	69.5	67.4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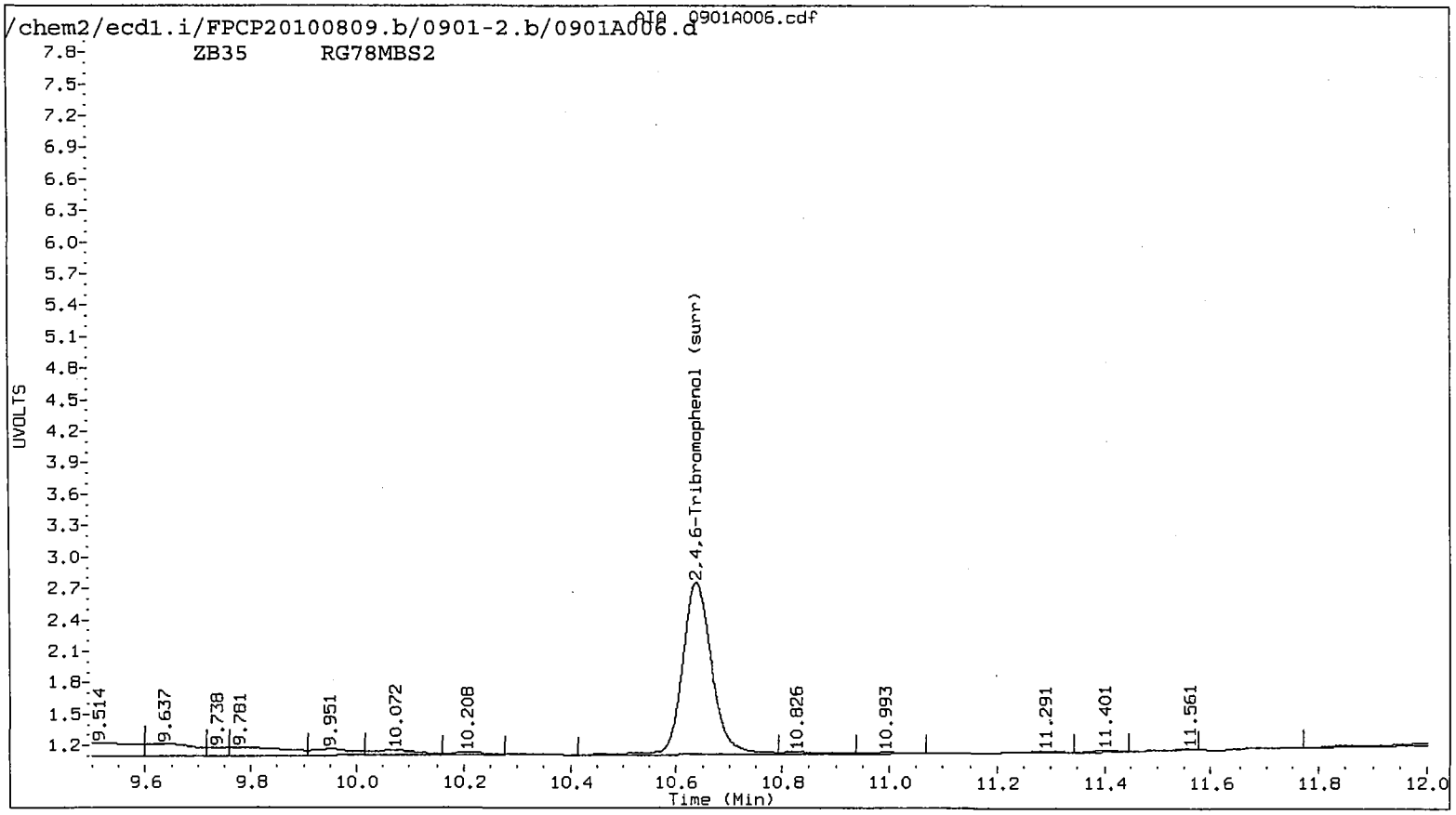
0901A006.cdf
ZB5 RG78MBS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.600
9.749
9.906
10.246
10.607
10.717
11.065
11.327
11.549
11.704
11.845
11.918
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A006.d
0901A006.cdf
ZB35 RG78MBS2
UVOLTS
2,4,6-Tribromophenol (surr)
9.514
9.637
9.738
9.781
9.951
10.072
10.208
10.826
10.993
11.291
11.401
11.561
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A006.d

Date : 01-SEP-2010 11:54

Client ID: RG78MBS2

Sample Info: RG78MBS2

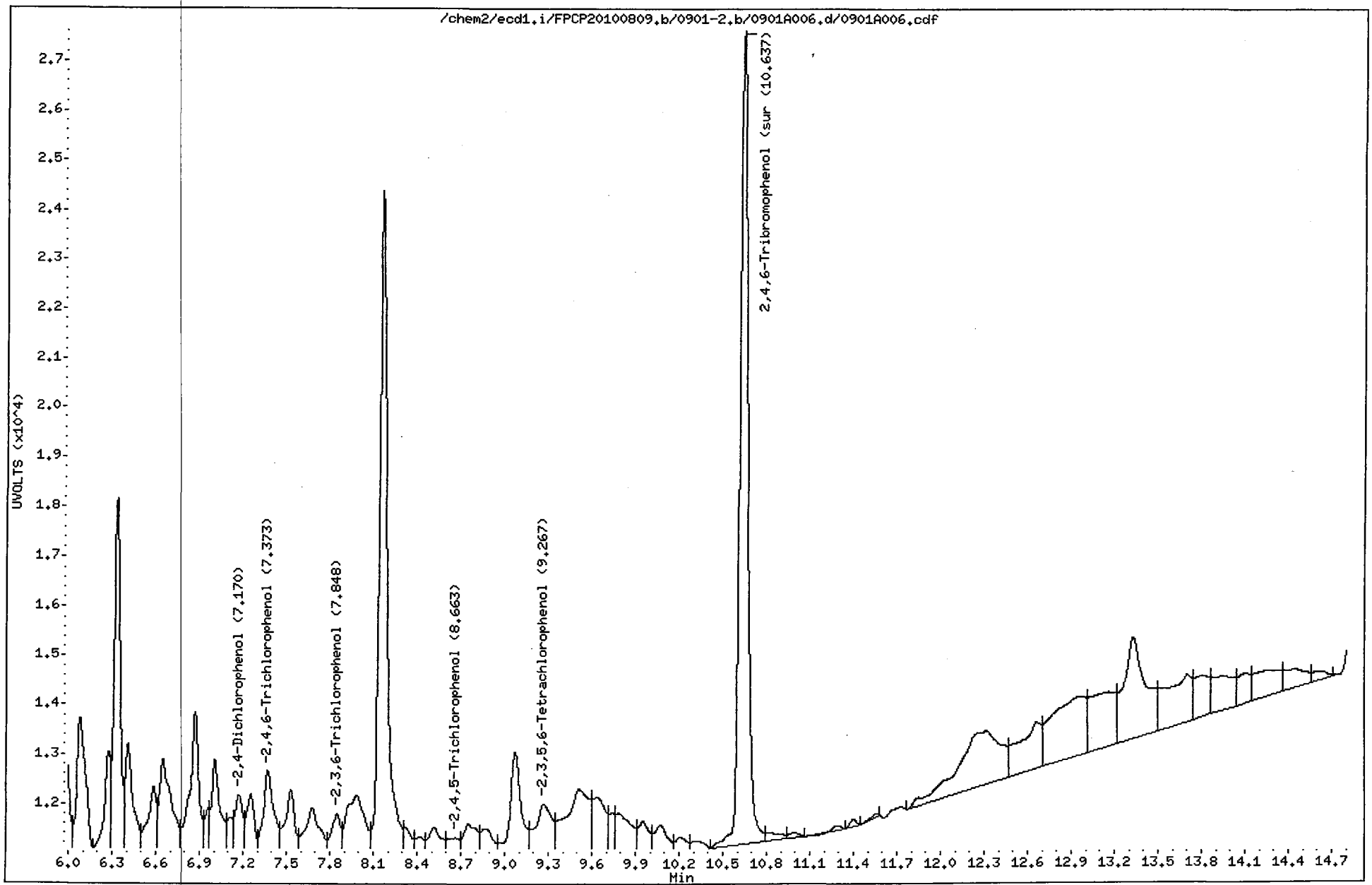
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RGSH-01181



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A006.d

Date : 01-SEP-2010 11:54

Client ID: RG78MBS2

Sample Info: RG78MBS2

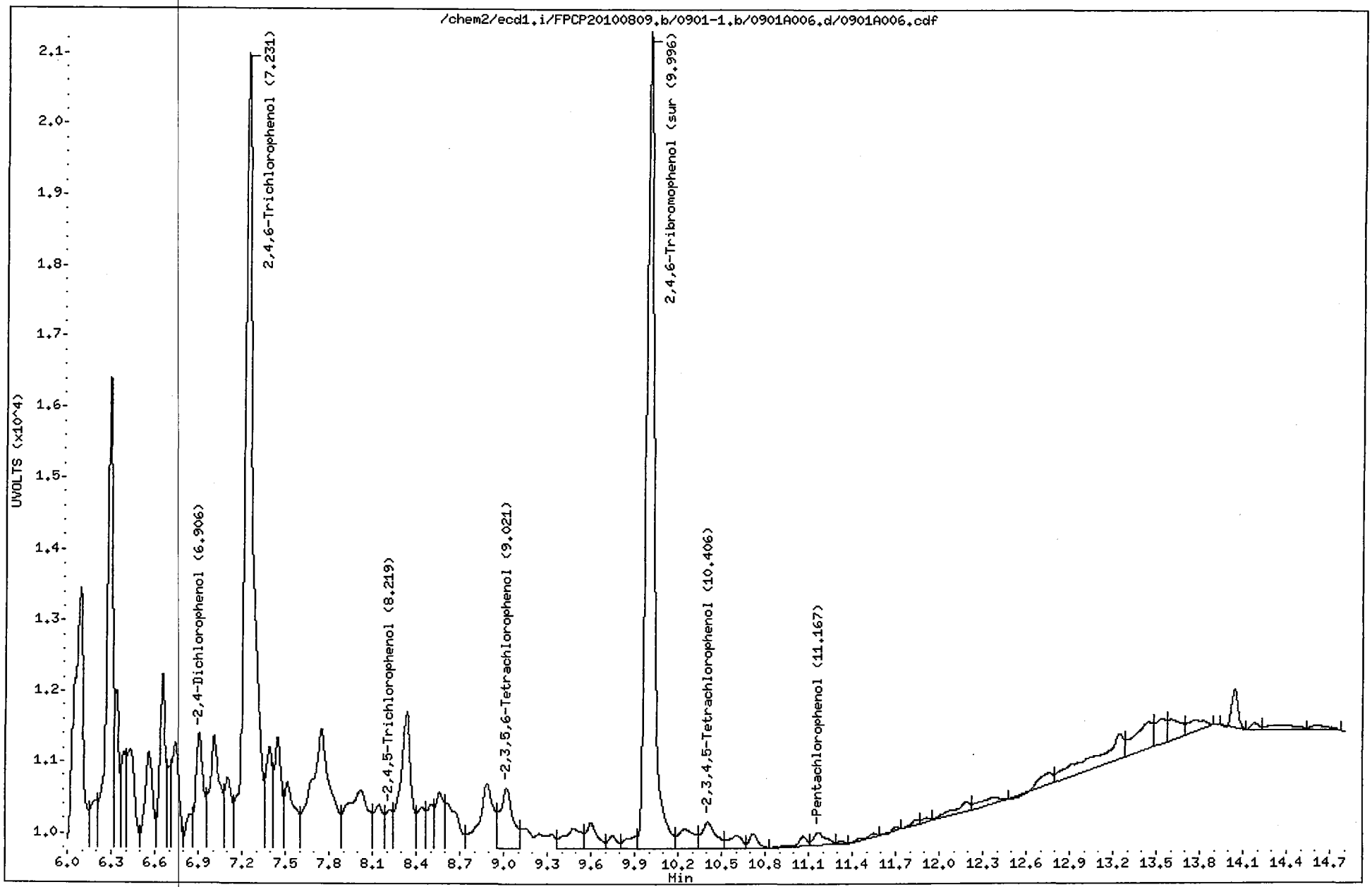
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG91:01182



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

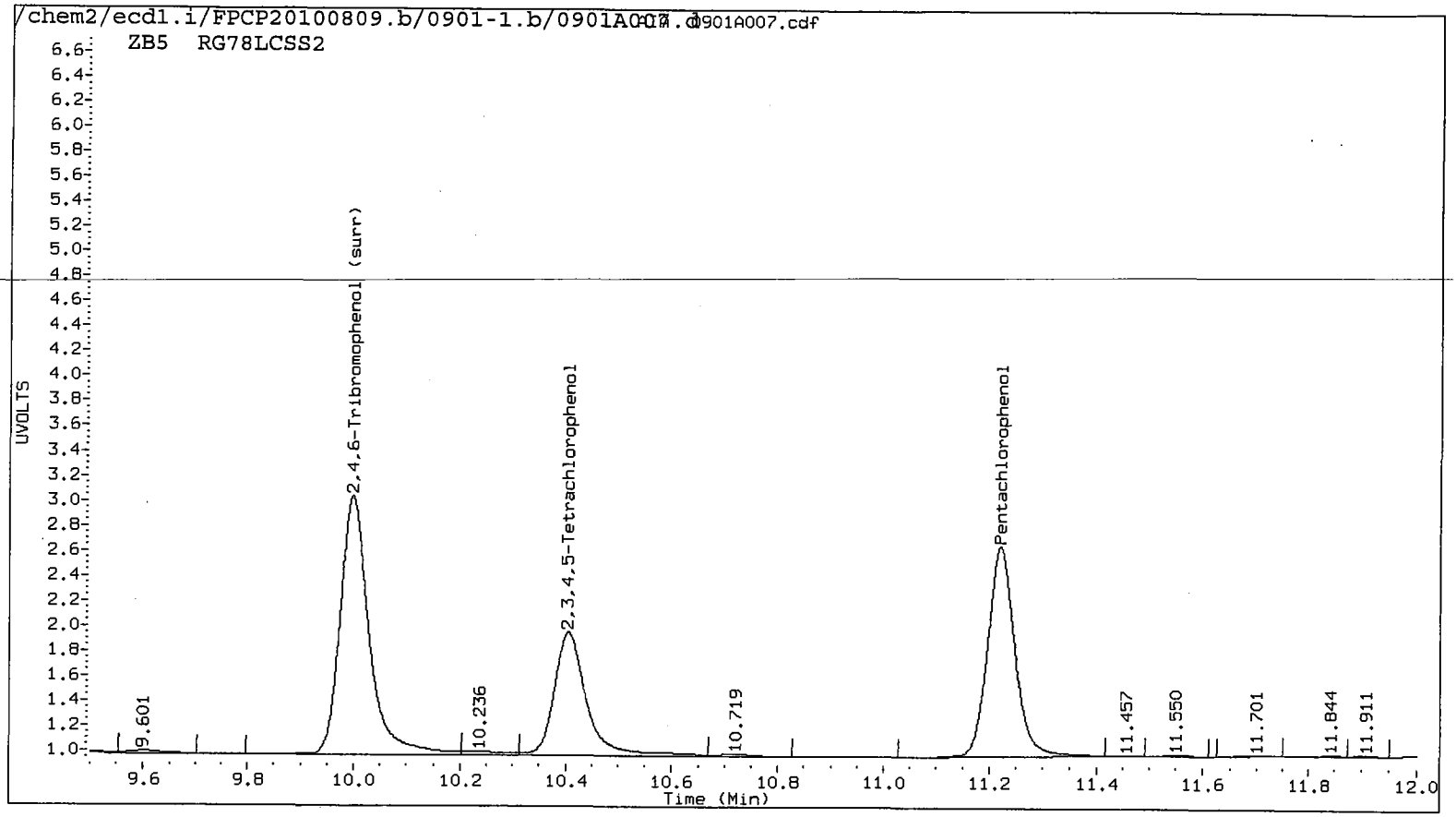
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A007.d ARI ID: RG78LCSS2
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A007.d Client ID: RG78LCSS2
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 01-SEP-2010 12:14
Report Date: 09/01/2010 14:17
Matrix: SOIL
Dilution Factor: 1.000

9/1/10

ZB-5 Col RT	Shift	Response	ZB35 Col RT	Shift	Response	ZB-5 on col	ZB35 on col	RPD	Compound
11.220	0.001	302160	11.656	-0.002	416722	18.9091	18.1488	4.1	Pentachlorophenol
7.269	0.005	167940	7.337	0.004	242209	19.3748	19.4006	0.1	2,4,6-Trichlorophenol
7.622	0.003	166224	7.864	0.000	221646	18.3795	17.8624	2.9	2,3,6-Trichlorophenol
8.227	-0.015	85062	8.599	-0.016	125339	16.8522	19.5399	14.8	2,4,5-Trichlorophenol
8.779	-0.013	108932	9.366	-0.014	179291	15.9232	20.7824	26.5	2,3,4-Trichlorophenol
9.003	-0.004	242507	9.269	-0.008	333463	17.1922	18.0106	4.6	2,3,5,6-Tetrachlorophenol
10.404	-0.009	212487	11.116	-0.010	264239	19.9530	18.1101	9.7	2,3,4,5-Tetrachlorophenol
6.894	0.001	81629	7.163	-0.003	125488	153.5975	196.0990	24.3	2,4-Dichlorophenol
9.998	-0.004	399048	10.639	-0.007	590852	33.4	31.7	5.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	75.6	72.6
2,4,6-Trichlorophenol	77.5	77.6
2,3,6-Trichlorophenol	73.5	71.4
2,4,5-Trichlorophenol	67.4	78.2
2,3,4-Trichlorophenol	63.7	83.1
2,3,5,6-Tetrachlorophenol	68.8	72.0
2,3,4,5-Tetrachlorophenol	79.8	72.4
2,4-Dichlorophenol	61.4	78.4
2,4,6-TBP (surr)	66.7	63.3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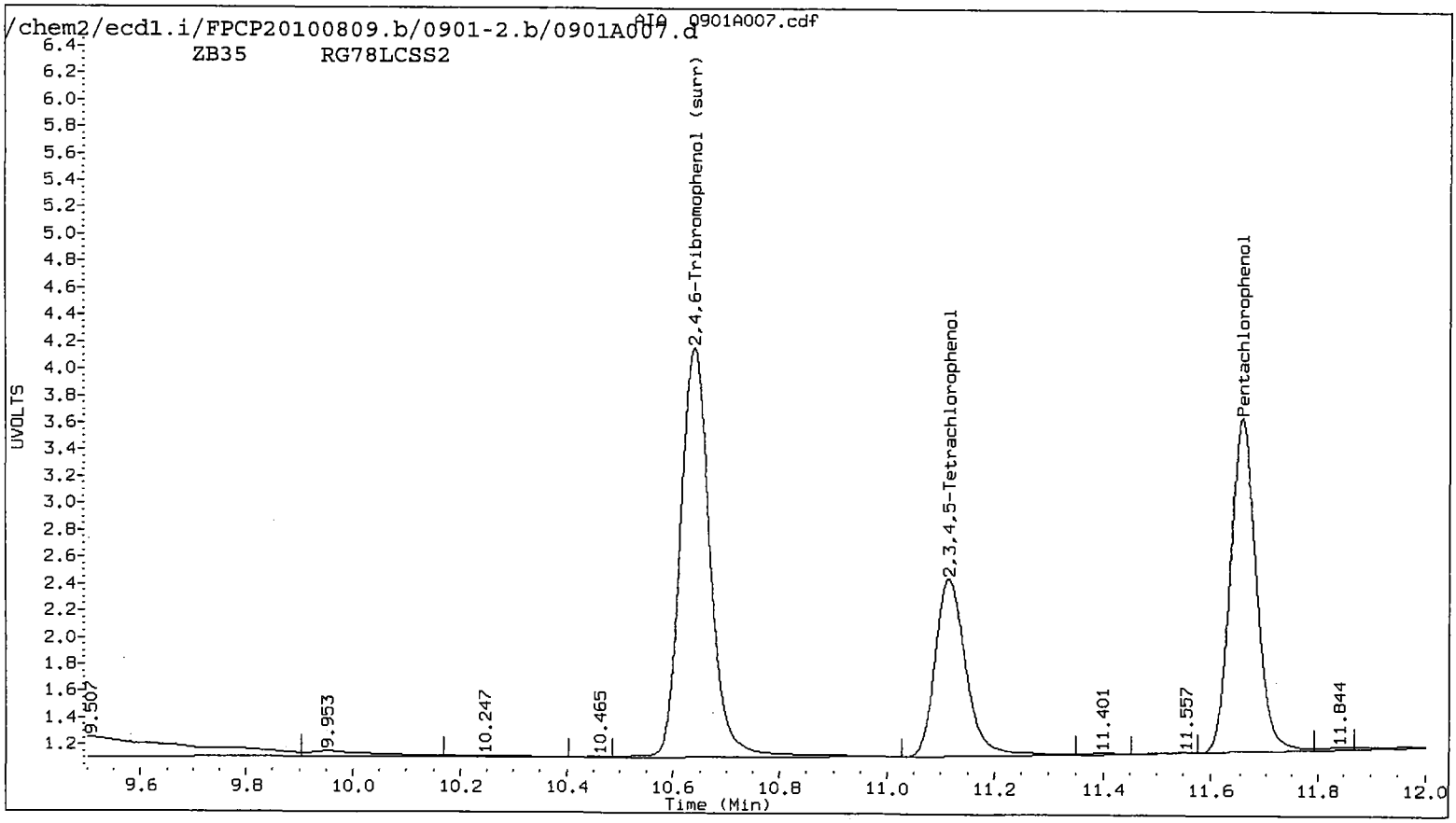
0901A007.cdf
ZB5 RG78LCSS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.601
10.236
10.719
11.457
11.550
11.701
11.844
11.911
Time (Min)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0901A007.cdf
ZB35 RG78LCSS2
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.507
9.953
10.247
10.465
11.401
11.557
11.844
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A007.d

Date : 01-SEP-2010 12:14

Client ID: RG78LCSS2

Sample Info: RG78LCSS2

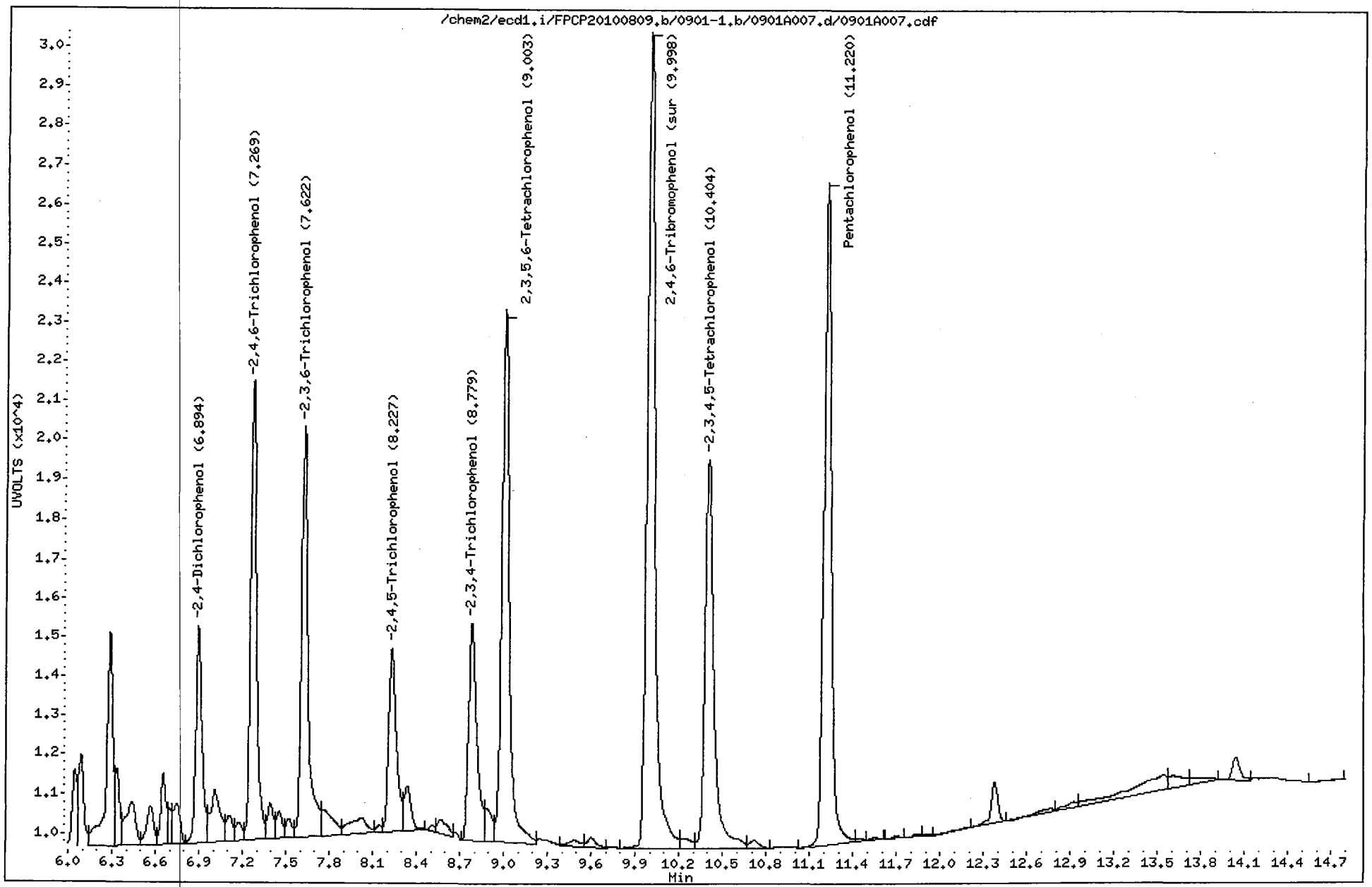
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG91-01185



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Date : 01-SEP-2010 12:14

Client ID: RG78LCSS2

Sample Info: RG78LCSS2

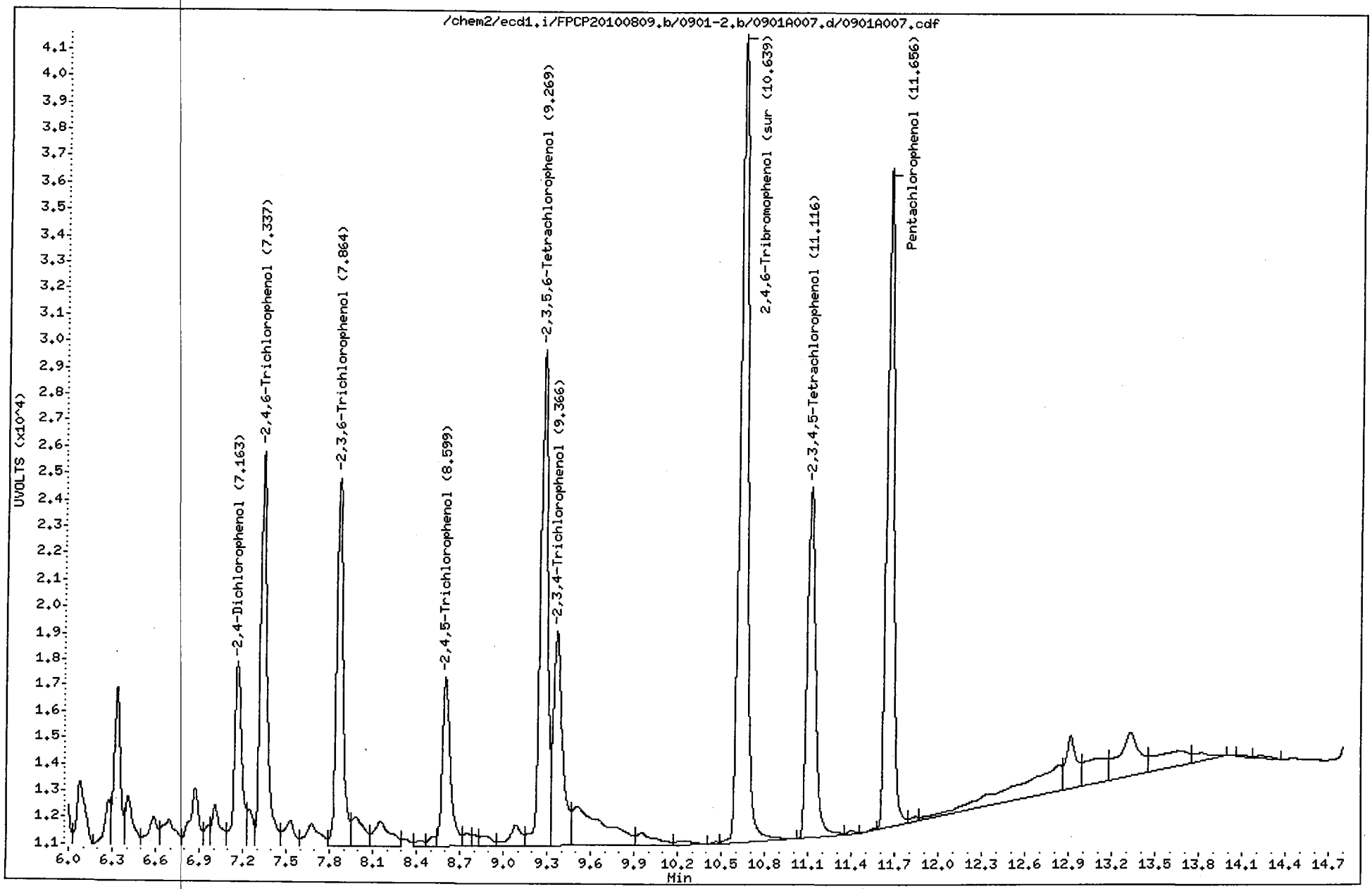
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG91:01186



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A012.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A012.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m
Compound Sublist: all
Instrument: ecd1.i
Operator: ar
Injection Date: 01-SEP-2010 13:54
Report Date: 09/01/2010 16:16
Matrix: NONE
Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.218	-0.001	360457	11.654	-0.004	523932	23.0563	22.8179	1.0	Pentachlorophenol
7.266	0.002	198486	7.334	0.001	284047	23.3273	22.7518	2.5	2,4,6-Trichlorophenol
7.619	0.000	199204	7.862	-0.002	272967	22.3765	21.9983	1.7	2,3,6-Trichlorophenol
8.222	-0.020	113631	8.595	-0.020	150707	22.5122	24.0079	6.4	2,4,5-Trichlorophenol
8.772	-0.020	142823	9.361	-0.019	195672	20.8772	22.9079	9.3	2,3,4-Trichlorophenol
9.000	-0.007	322455	9.266	-0.011	428374	22.8600	23.1368	1.2	2,3,5,6-Tetrachlorophenol
10.400	-0.013	237166	11.113	-0.013	324144	22.6711	22.2158	2.0	2,3,4,5-Tetrachlorophenol
6.891	-0.002	102059	7.161	-0.005	136478	200.5109	216.1043	7.5	2,4-Dichlorophenol
9.995	-0.007	286029	10.636	-0.010	425750	23.0	22.8	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

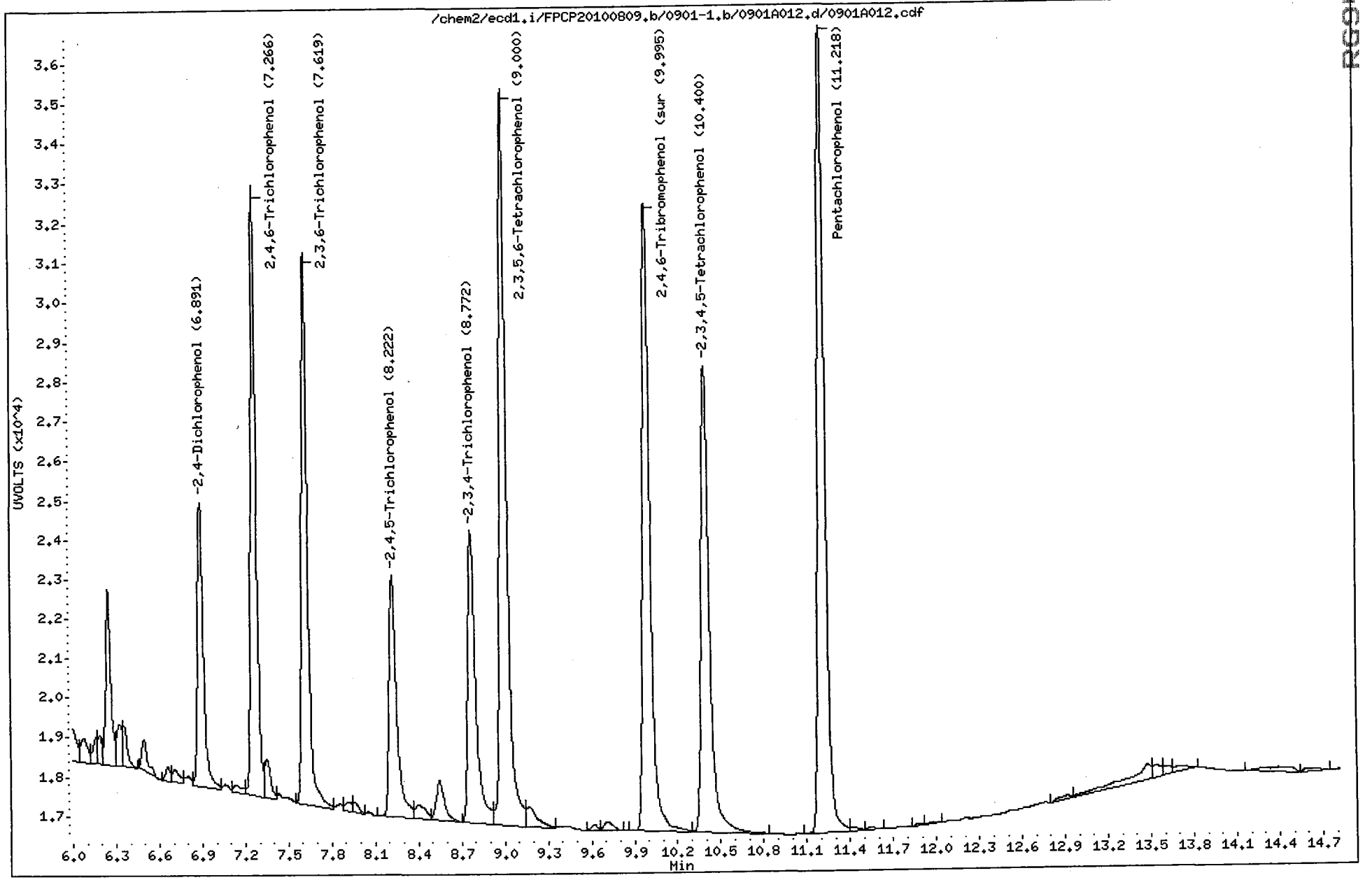
COMPOUND	Col1	Col2
Pentachlorophenol	92.2	91.3
2,4,6-Trichlorophenol	93.3	91.0
2,3,6-Trichlorophenol	89.5	88.0
2,4,5-Trichlorophenol	90.0	96.0
2,3,4-Trichlorophenol	83.5	91.6
2,3,5,6-Tetrachlorophenol	91.4	92.5
2,3,4,5-Tetrachlorophenol	90.7	88.9
2,4-Dichlorophenol	80.2	86.4
2,4,6-TBP (surr)	91.9	91.2

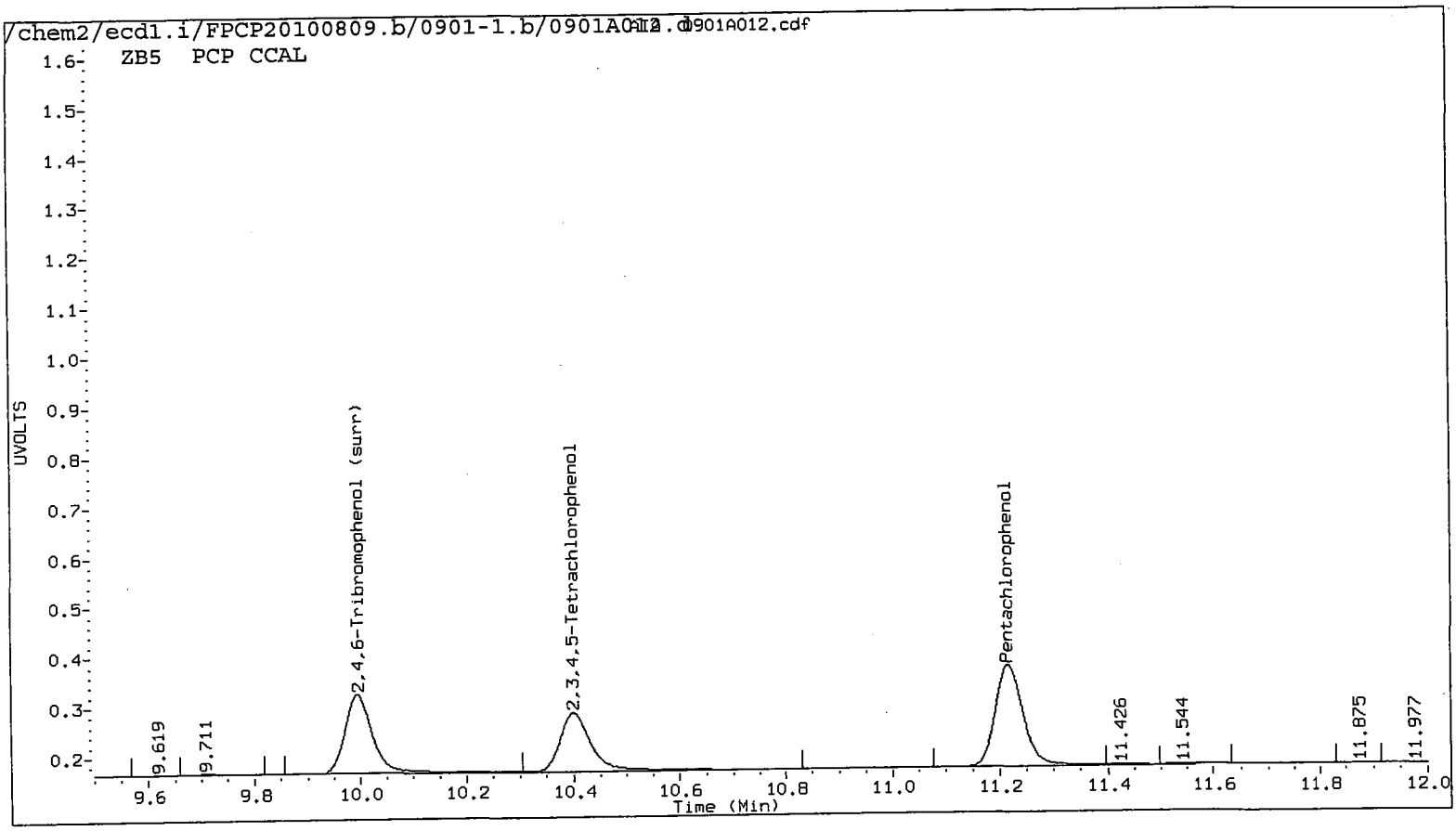
Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A012.d
Date : 01-SEP-2010 13:54
Client ID:
Sample Info: PCP CCAL

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

Column phase: ZB5

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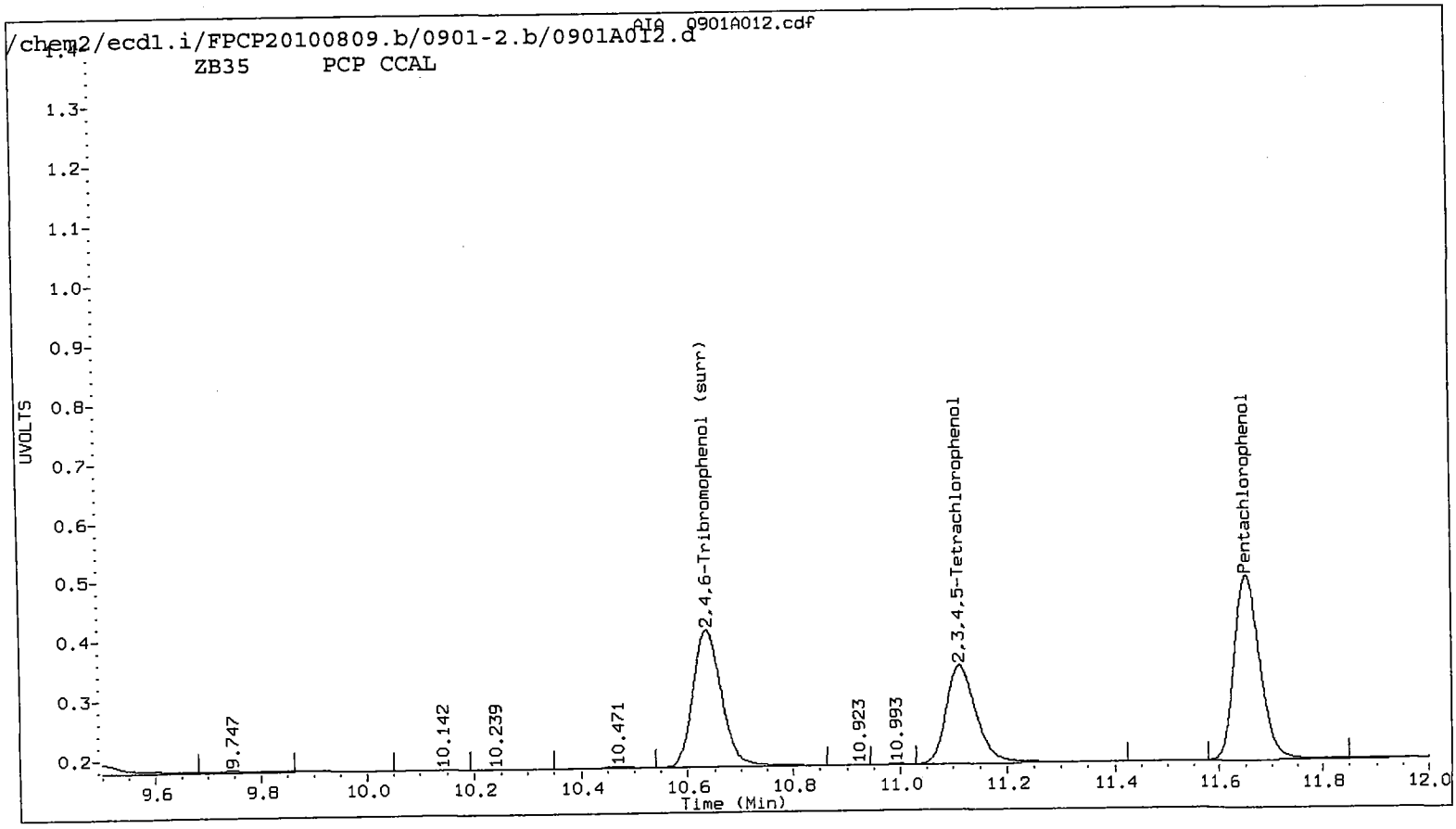
AIA 0901A012.cdf
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.619
9.711
11.426
11.544
11.875
11.977
Time (Min)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AIA 0901A012.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.747
10.142
10.239
10.471
10.923
10.993
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A012.d

Date : 01-SEP-2010 13:54

Client ID:

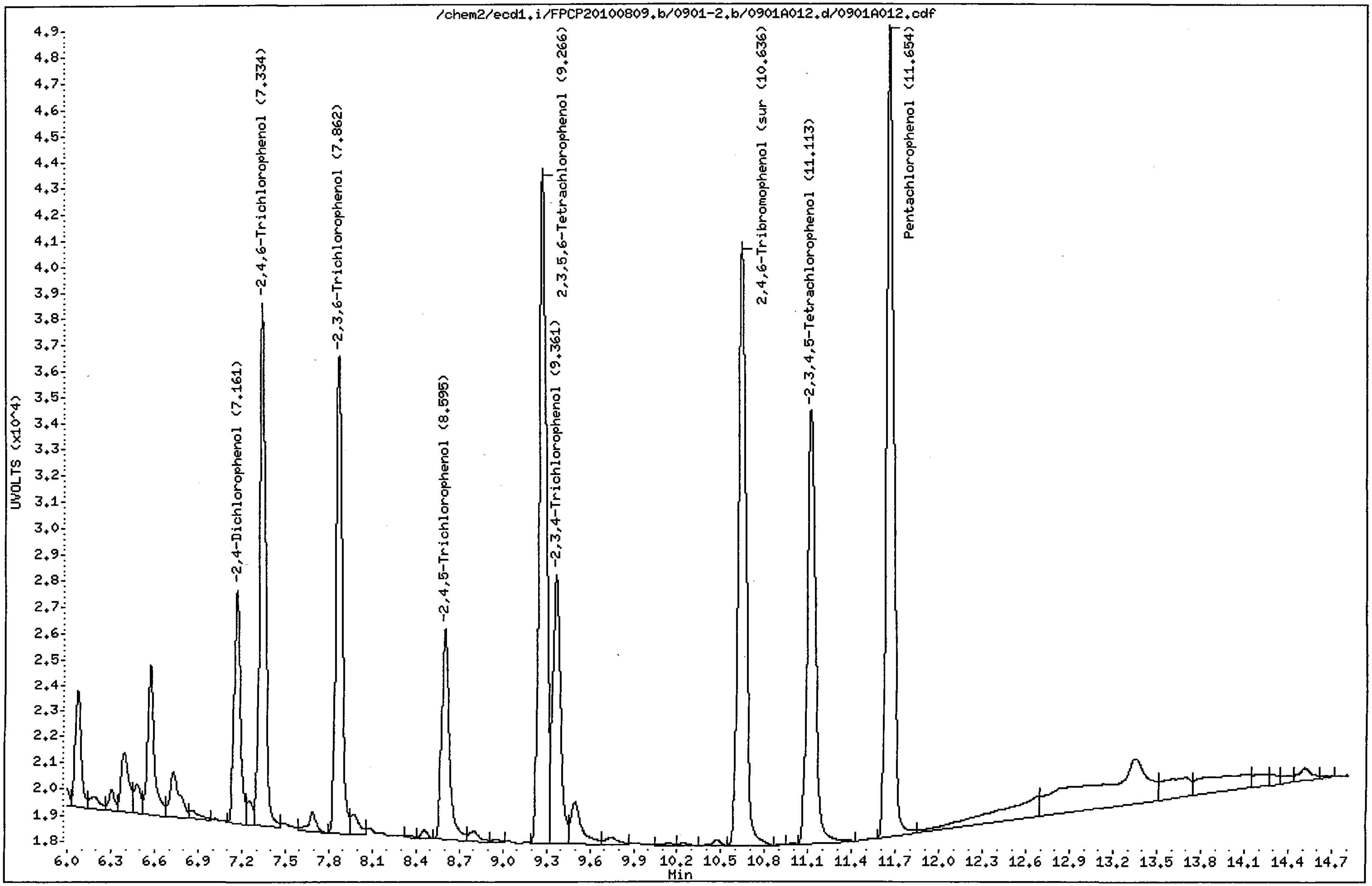
Instrument: ecd1.i

Sample Info: PCP CCAL

Operator: ar

Column phase: ZB35

Column diameter: 0.53



RG94:01190

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

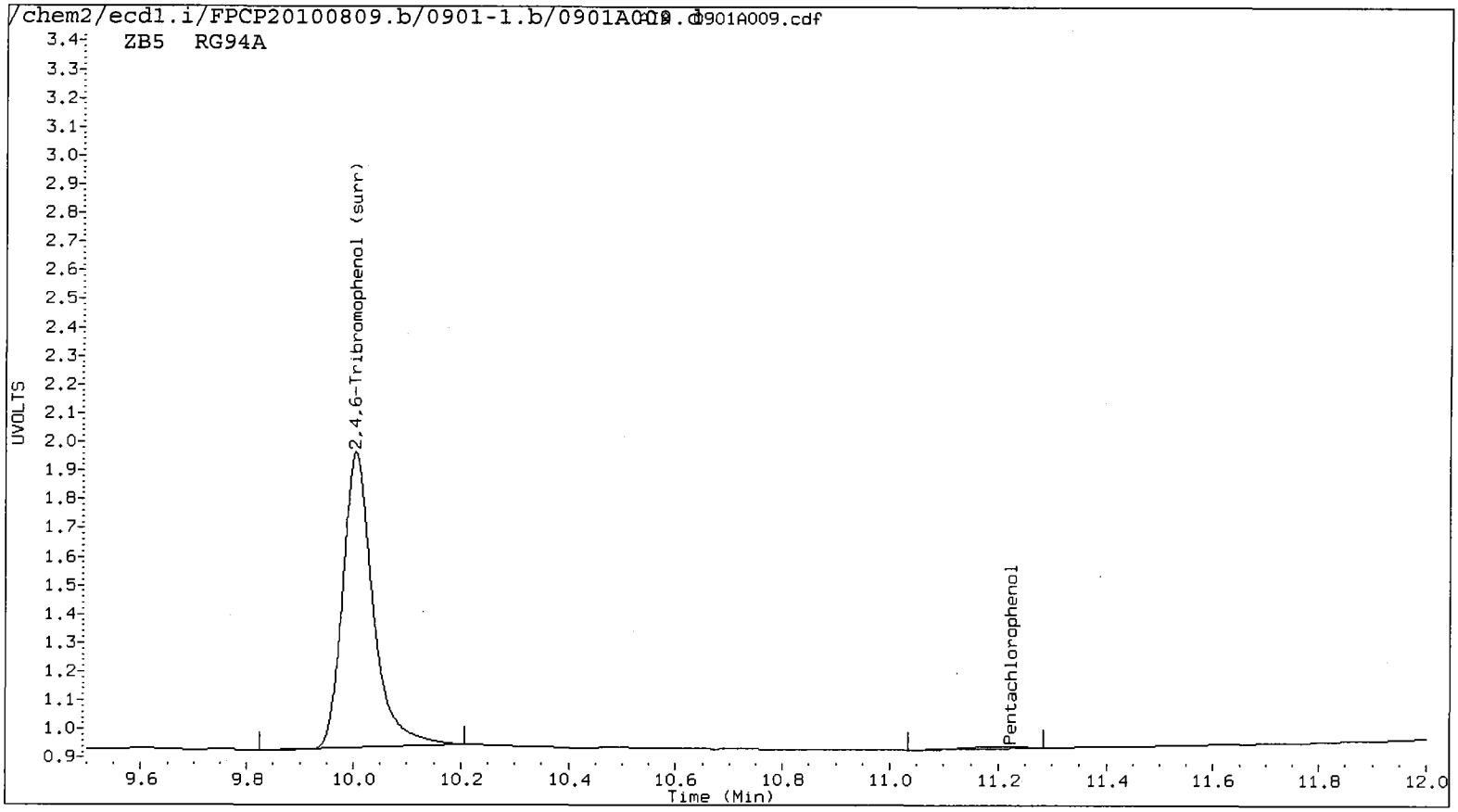
YZ 9/1/10

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A009.d ARI ID: RG94A
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A009.d Client ID: MW14-15-16.5-080210
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 12:54
Compound Sublist: all Report Date: 09/01/2010 14:17
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.223	0.004	1890	----			~~0.1048~~	~~0.0000~~	---	Pentachlorophenol
7.293	0.029	14157	7.374	0.041	7693	1.4794	0.6162	82.4*	2,4,6-Trichlorophenol
----			7.849	-0.015	2739	0.0000	0.2207	---	2,3,6-Trichlorophenol
8.267	0.025	1042	----			0.2064	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.026	0.019	10672	9.269	-0.008	3885	0.7566	0.2098	113.1*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.857	-0.036	4843	7.170	0.004	3080	7.6020	4.1014	59.8*	2,4-Dichlorophenol
10.004	0.002	202375	10.643	-0.003	298489	15.8	16.0	1.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	63.1	64.0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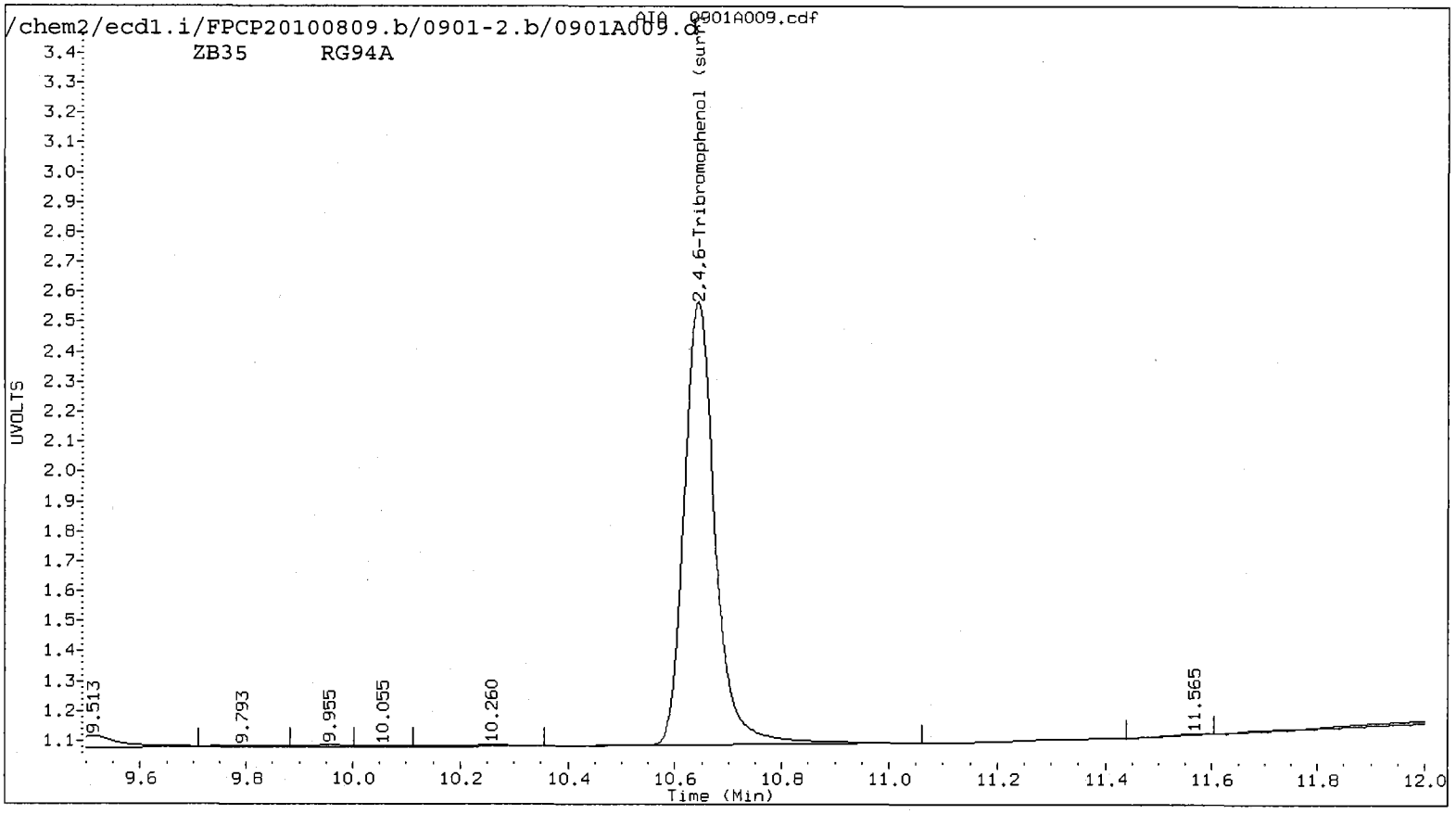
AIB 0901A009.cdf
ZB5 RG94A
UVOLTS
2,4,6-Tribromophenol (surr)
Pentachlorophenol
Time (Min)


/chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A009.d
AIB 0901A009.cdf
ZB35 RG94A
UVOLTS
2,4,6-Tribromophenol (surr)
9.513
9.793
9.955
10.055
10.260
11.565
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A009.d

Date : 01-SEP-2010 12:54

Client ID: MW14-15-16.5-080210

Sample Info: RG94A

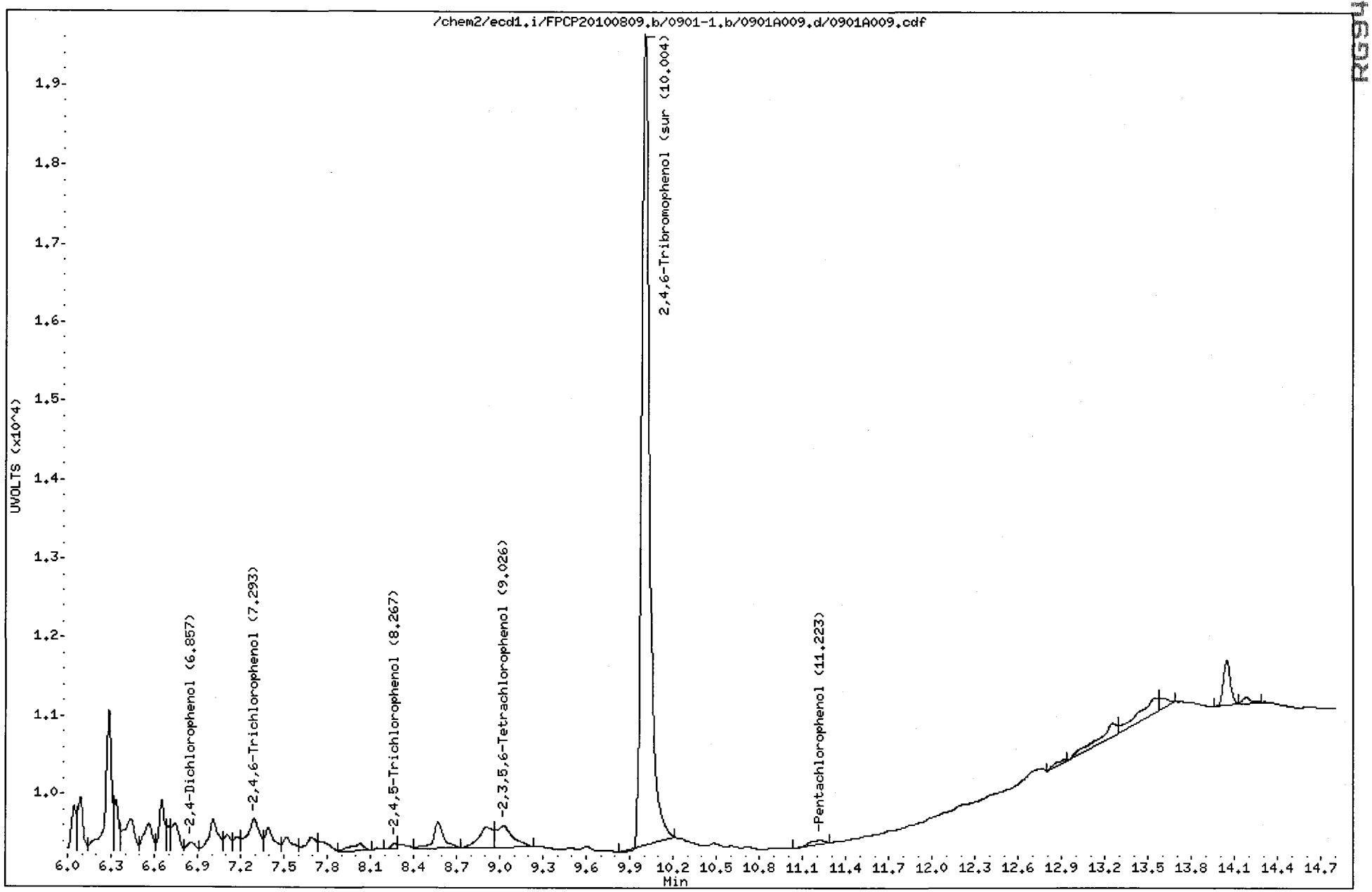
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94.01193



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A009.d

Date : 01-SEP-2010 12:54

Client ID: MW14-15-16.5-080210

Sample Info: RG94A

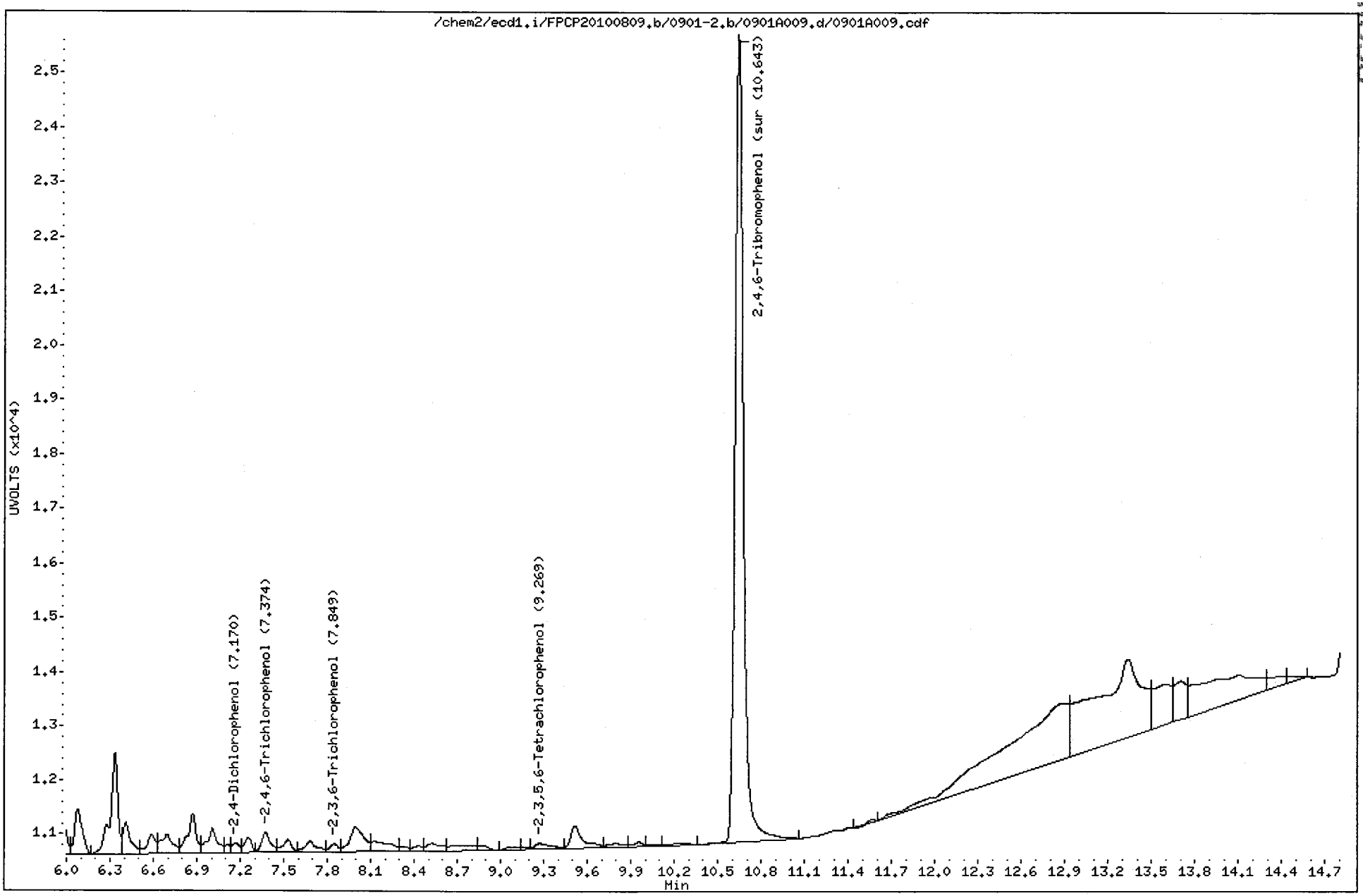
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94 : 01 19



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

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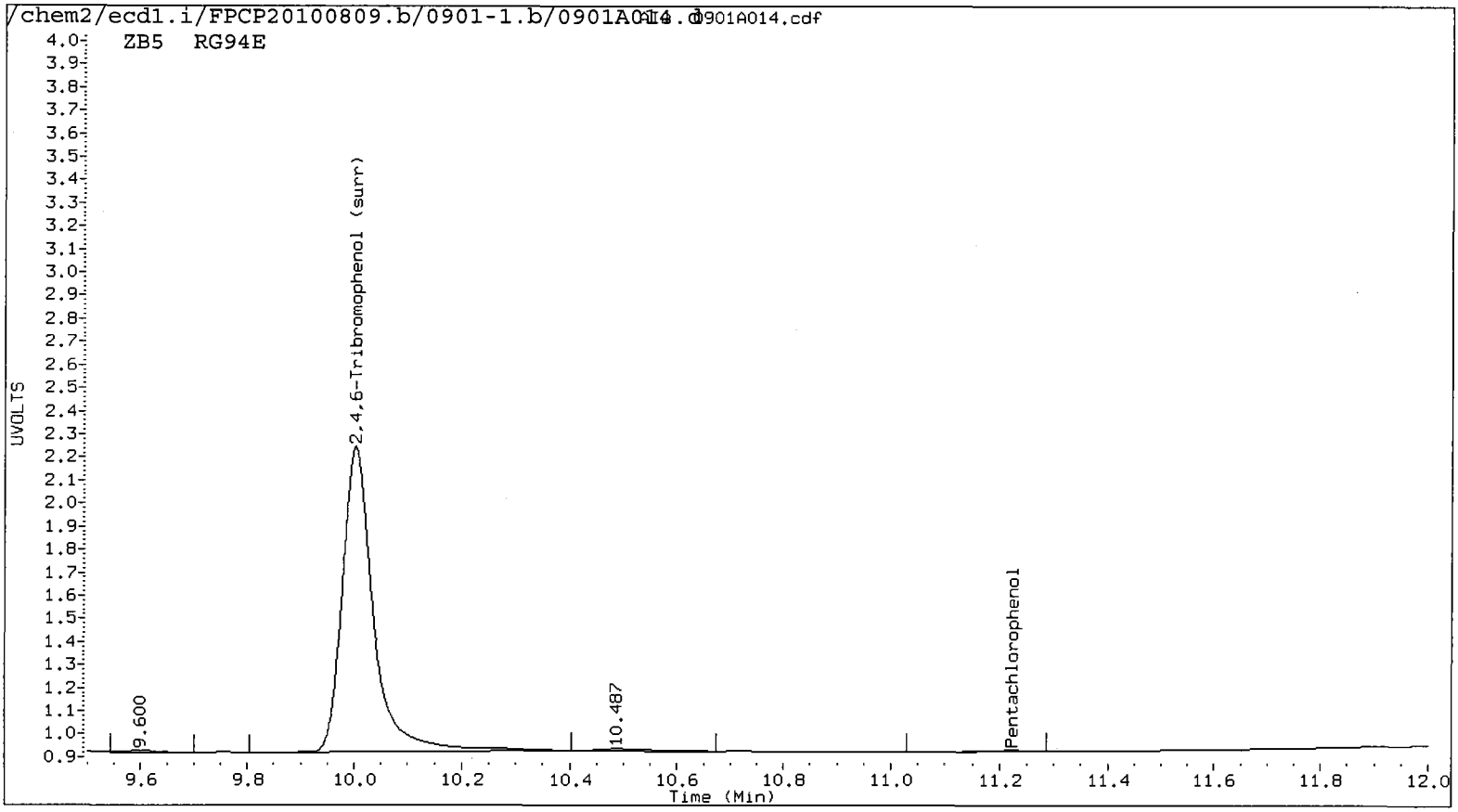
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A014.d ARI ID: RG94E
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A014.d Client ID: MW13-18.5-19.5-0802
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 14:34
Compound Sublist: all Report Date: 09/01/2010 15:20
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.222	0.003	1812	----			0.1005	0.0000	---	Pentachlorophenol
7.291	0.027	9857	7.373	0.040	12545	1.0270	1.0048	2.2	2,4,6-Trichlorophenol
----			7.847	-0.017	4520	0.0000	0.3643	---	2,3,6-Trichlorophenol
8.263	0.021	20505	----			4.0624	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.030	0.023	33956	----			2.4073	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.855	-0.038	1749	7.167	0.001	5386	2.7234	7.1956	90.2*	2,4-Dichlorophenol
10.002	0.000	268103	10.641	-0.005	386211	21.4	20.7	3.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	85.6	82.8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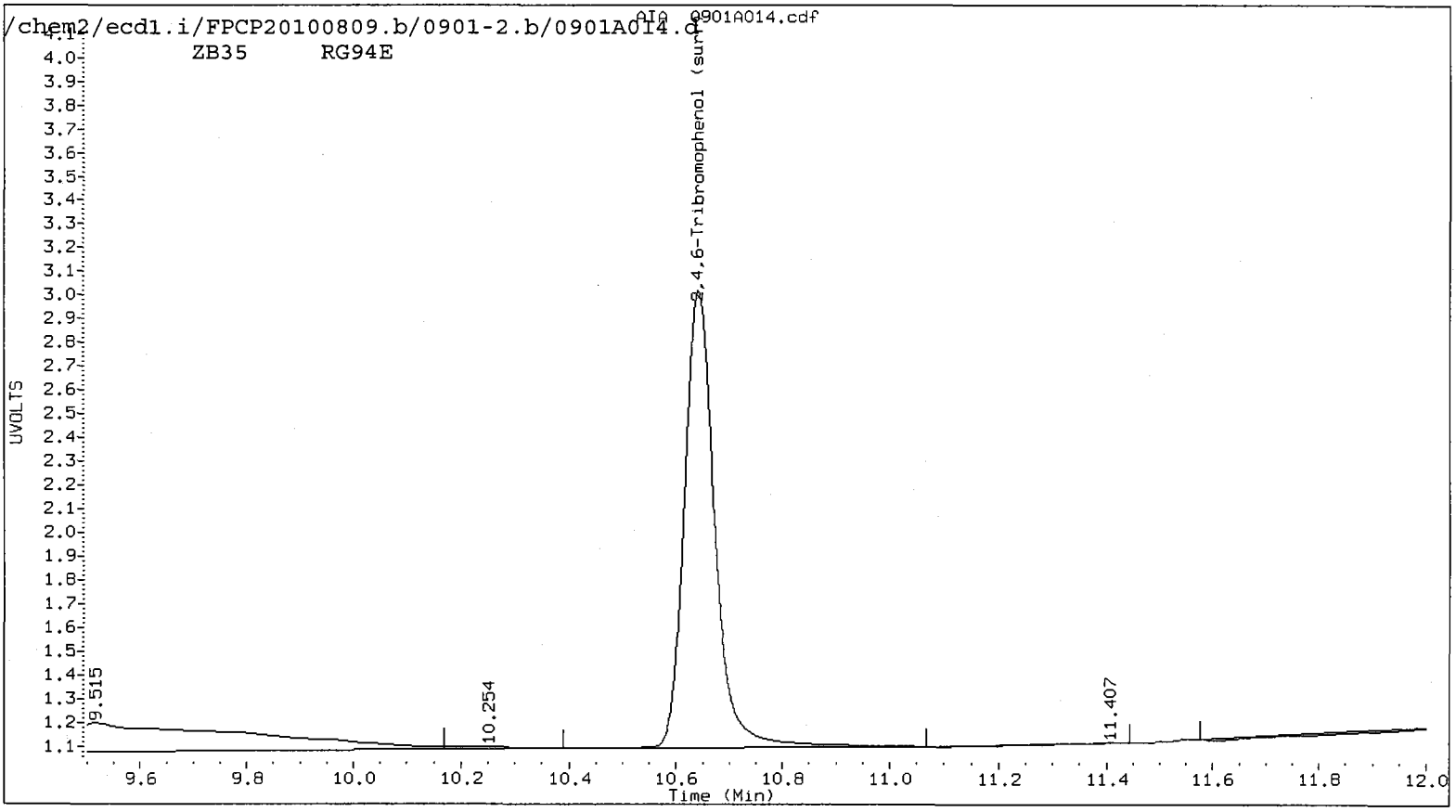
0901A014.cdf
ZB5 RG94E
UVOLTS
2,4,6-Tribromophenol (surr)
9.600
10.487
Pentachlorophenol
Time (Min)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0901A014.cdf
ZB35 RG94E
UVOLTS
2,4,6-Tribromophenol (surr)
9.515
10.254
11.407
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A014.d

Date : 01-SEP-2010 14:34

Client ID: MW13-18.5-19.5-0802

Sample Info: RG94E

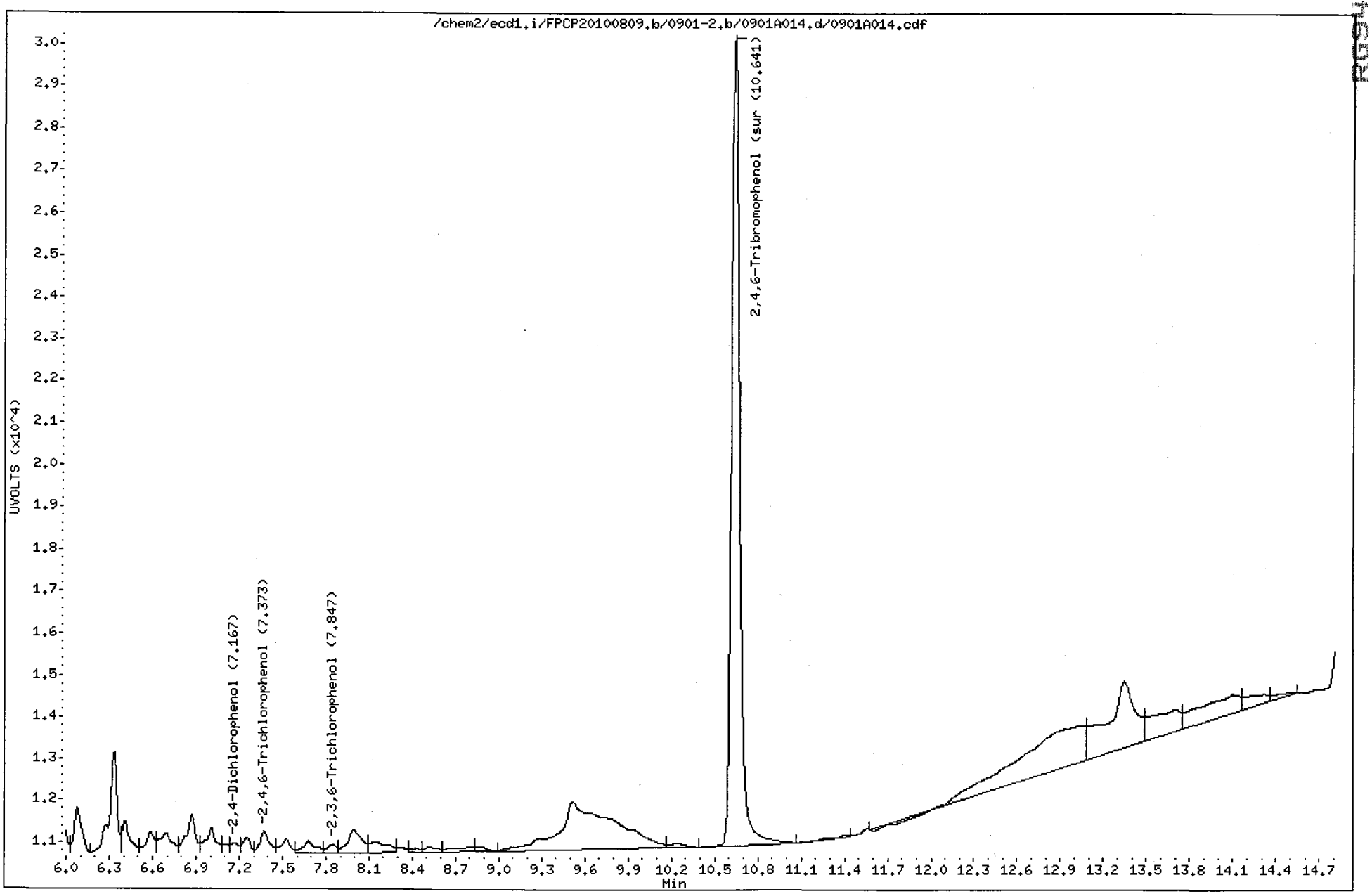
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94 : 9 1 97



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A014.d

Date : 01-SEP-2010 14:34

Client ID: MW13-18.5-19.5-0802

Sample Info: RG94E

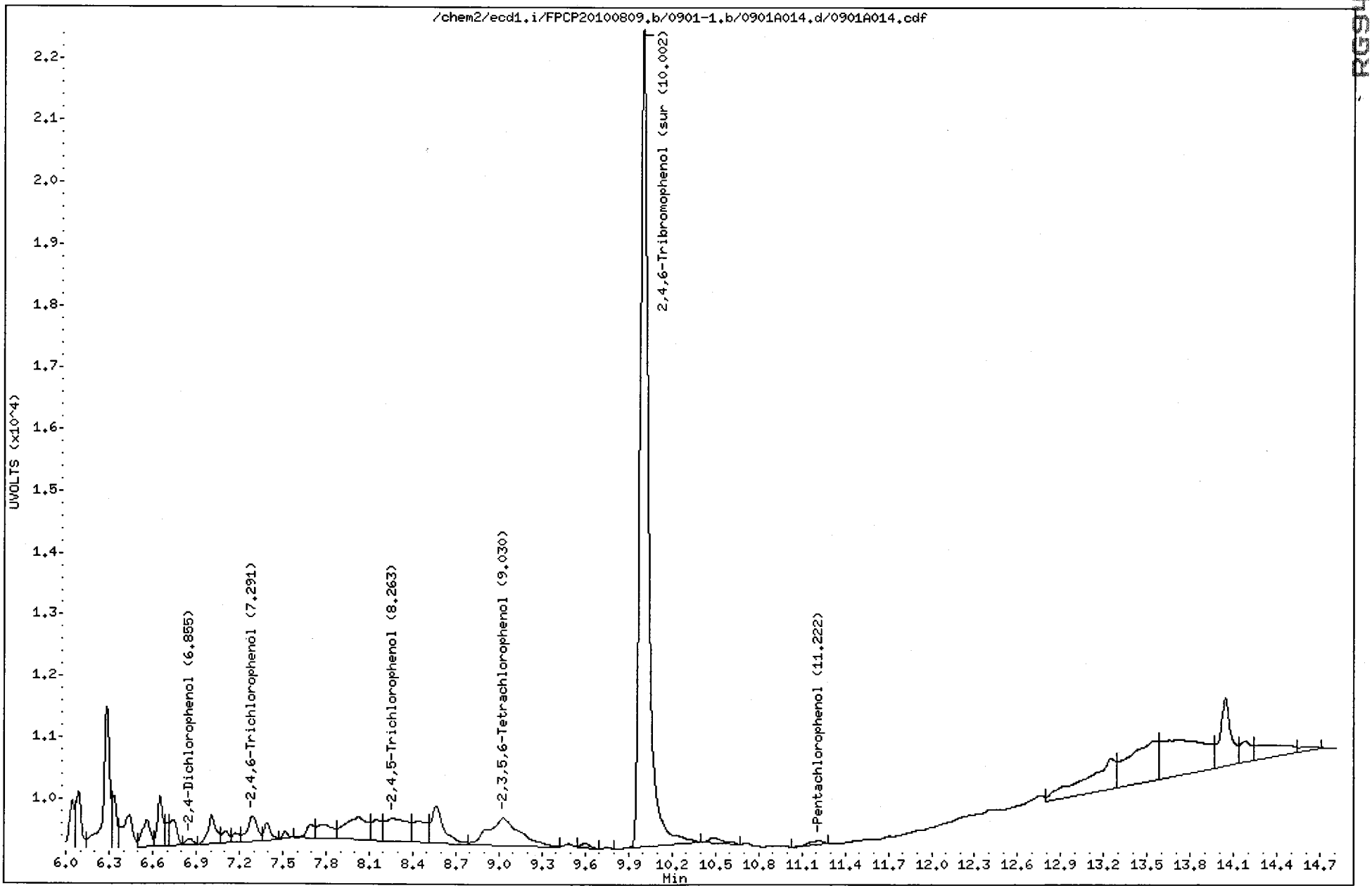
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94-091199



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

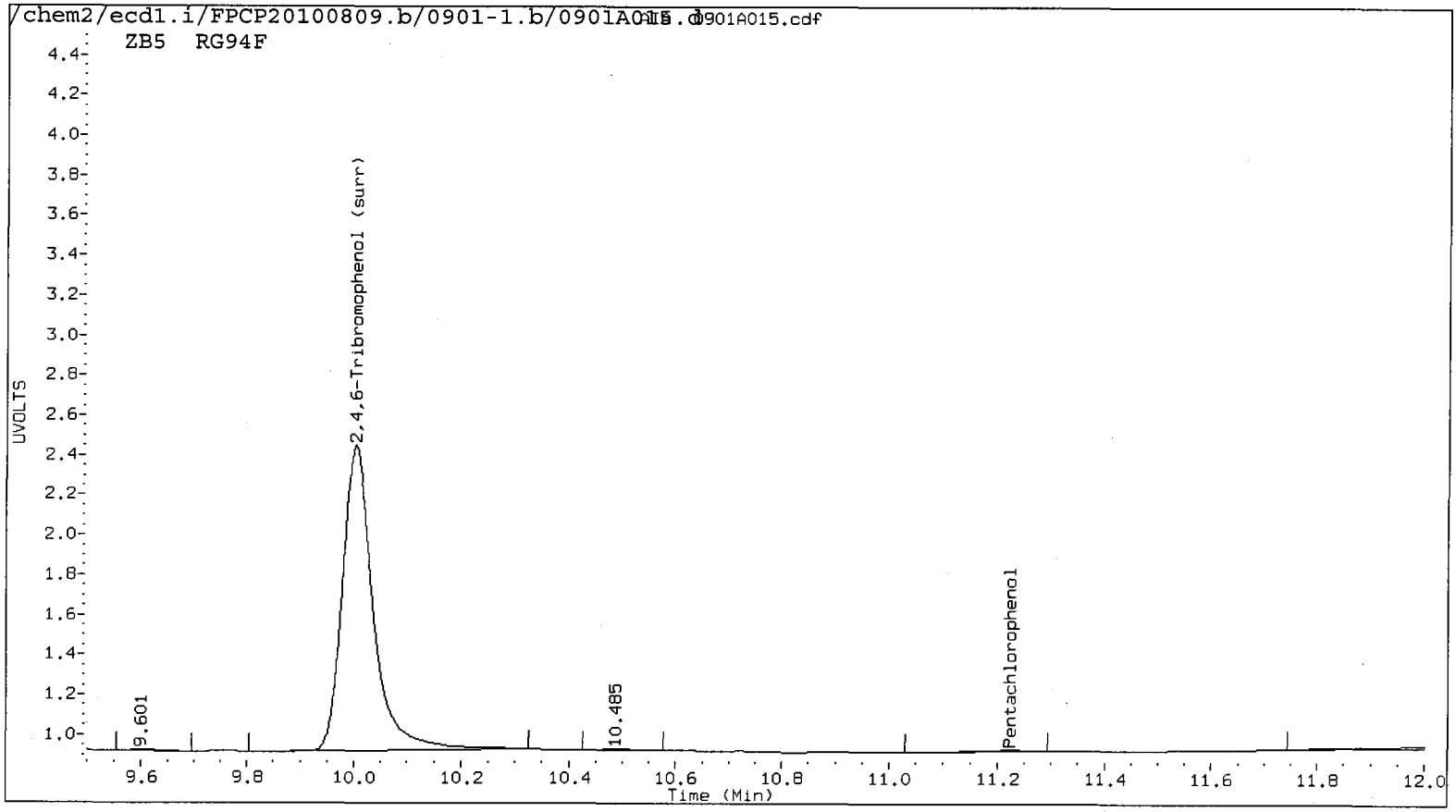
YZ 9/1/10

Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A015.d ARI ID: RG94F
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A015.d Client ID: MW13-18.5-19.5-0802
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 14:54
Compound Sublist: all Report Date: 09/01/2010 15:39
Instrument: ecd1.i Matrix: SOIL
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.223	0.004	2430	----			0.1348	0.0000	---	Pentachlorophenol
7.291	0.027	18366	7.373	0.040	14405	1.9247	1.1538	50.1*	2,4,6-Trichlorophenol
----			7.848	-0.016	5720	0.0000	0.4610	---	2,3,6-Trichlorophenol
8.269	0.027	2997	----			0.5938	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.027	0.020	13877	9.268	-0.009	4644	0.9838	0.2508	118.7*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.856	-0.037	6377	7.167	0.001	5830	10.0496	7.7936	25.3	2,4-Dichlorophenol
10.002	0.000	307353	10.642	-0.004	445875	24.9	23.9	4.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	99.5	95.5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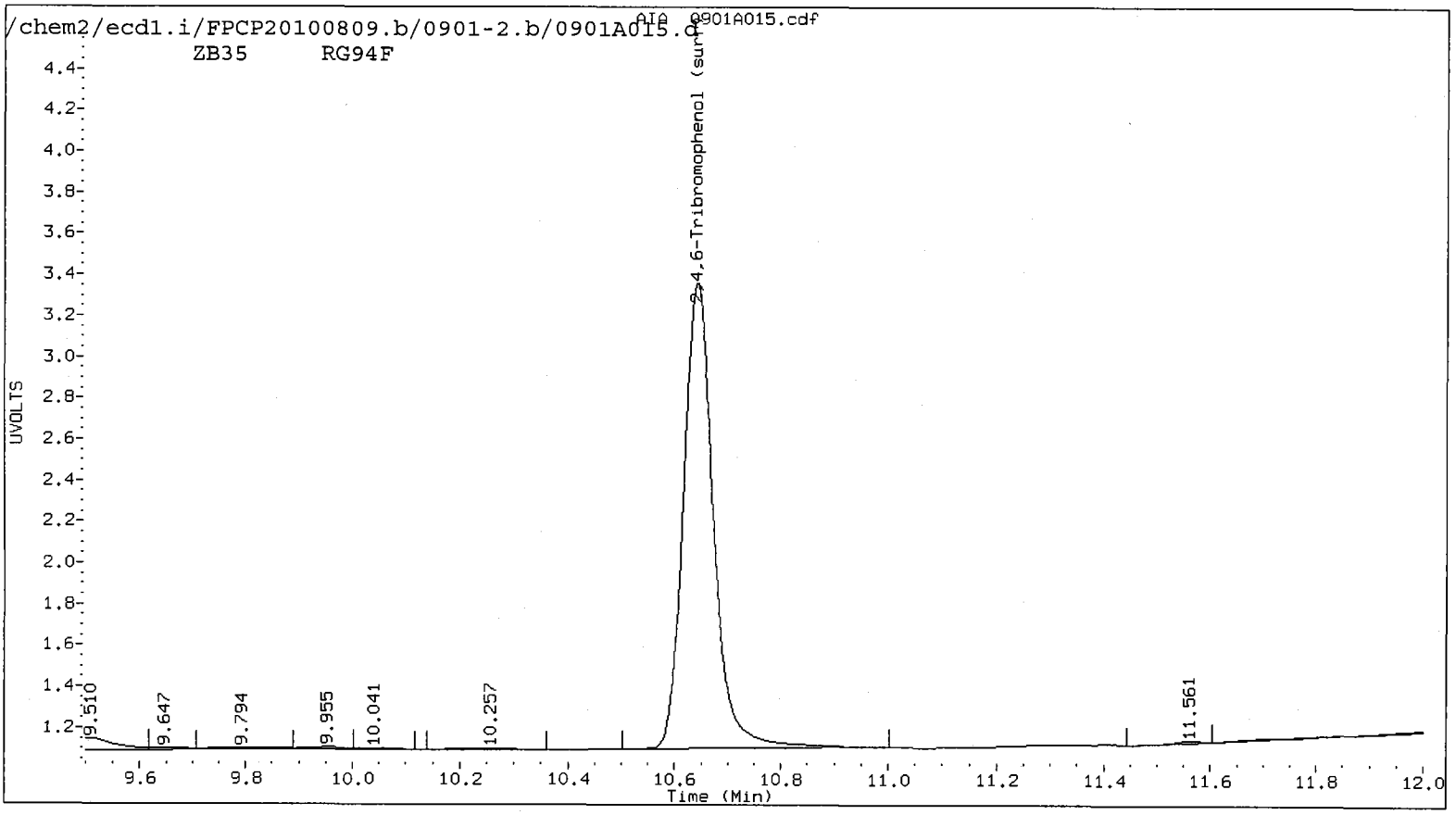
AIA 0901A015.cdf
ZB5 RG94F
UVOLTS
2,4,6-Tribromophenol (surr)
9.601
10.485
Pentachlorophenol
Time (Min)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AIA 0901A015.cdf
ZB35 RG94F
UVOLTS
2,4,6-Tribromophenol (surr)
9.510
9.647
9.794
9.955
10.041
10.257
11.561
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A015.d

Date : 01-SEP-2010 14:54

Client ID: MW13-18.5-19.5-0802

Sample Info: RG94F

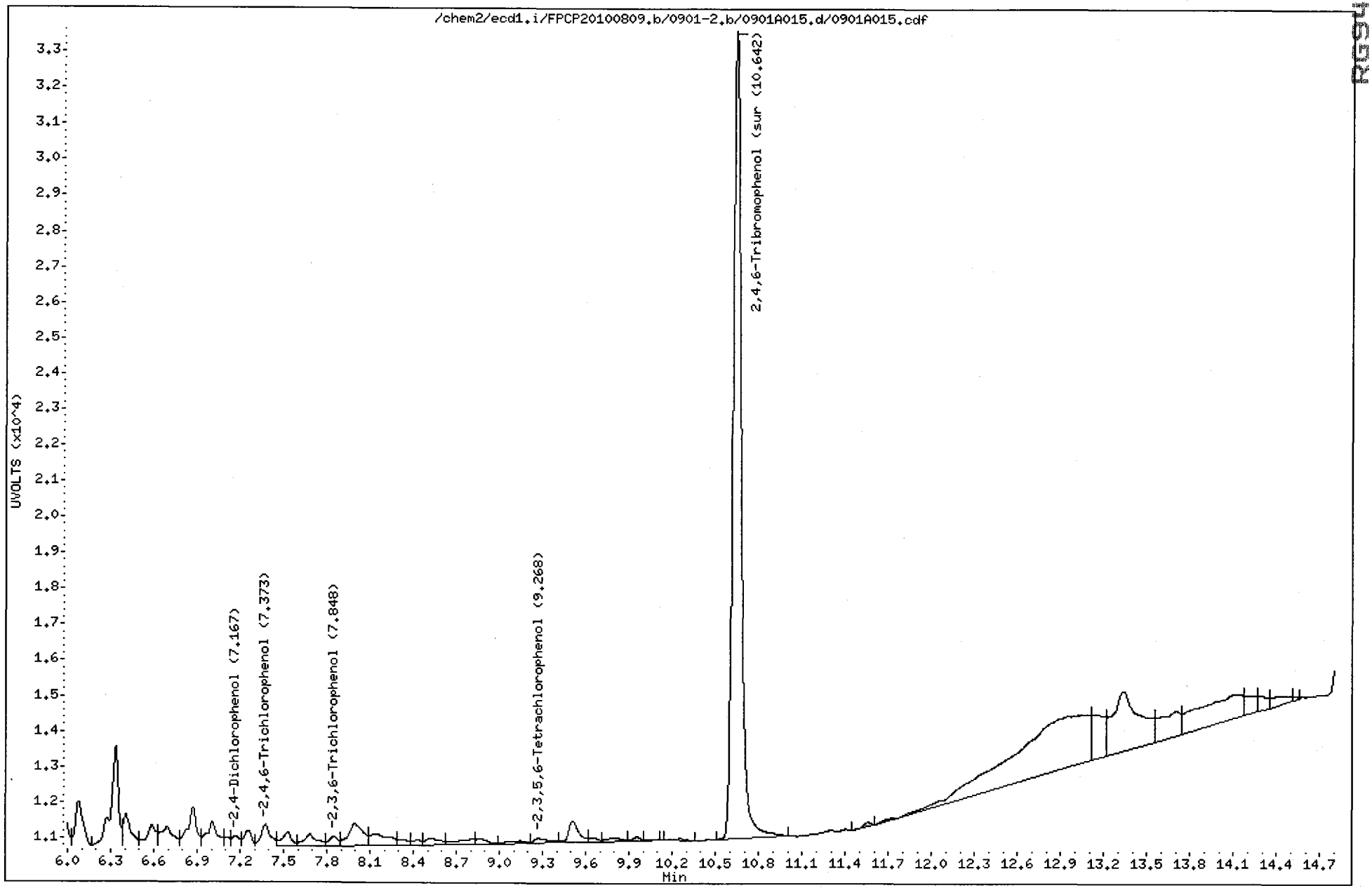
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94 : 9.1.201



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A015.d

Date : 01-SEP-2010 14:54

Client ID: MW13-18.5-19.5-0802

Sample Info: RG94F

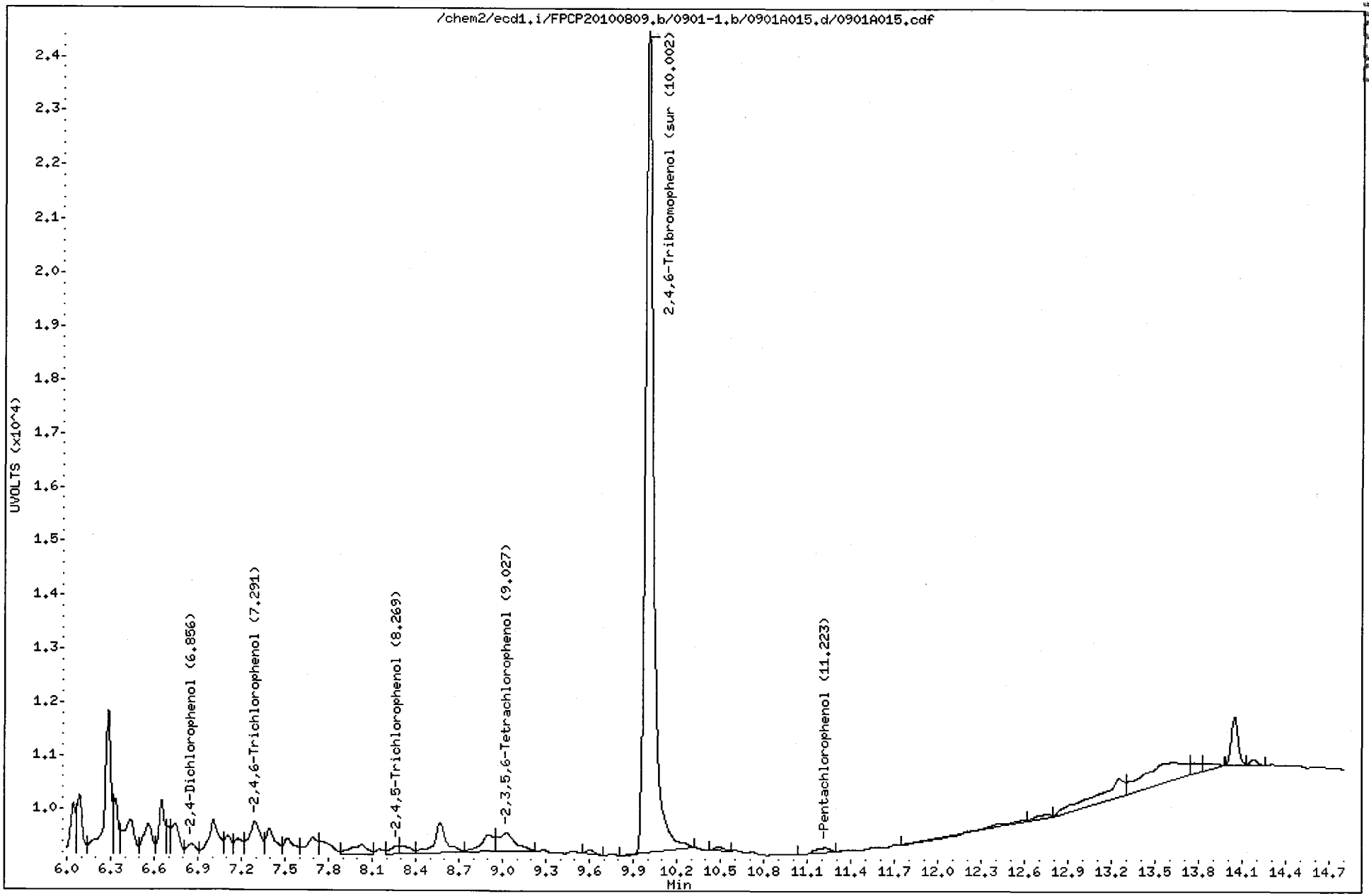
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG94 : 01202



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

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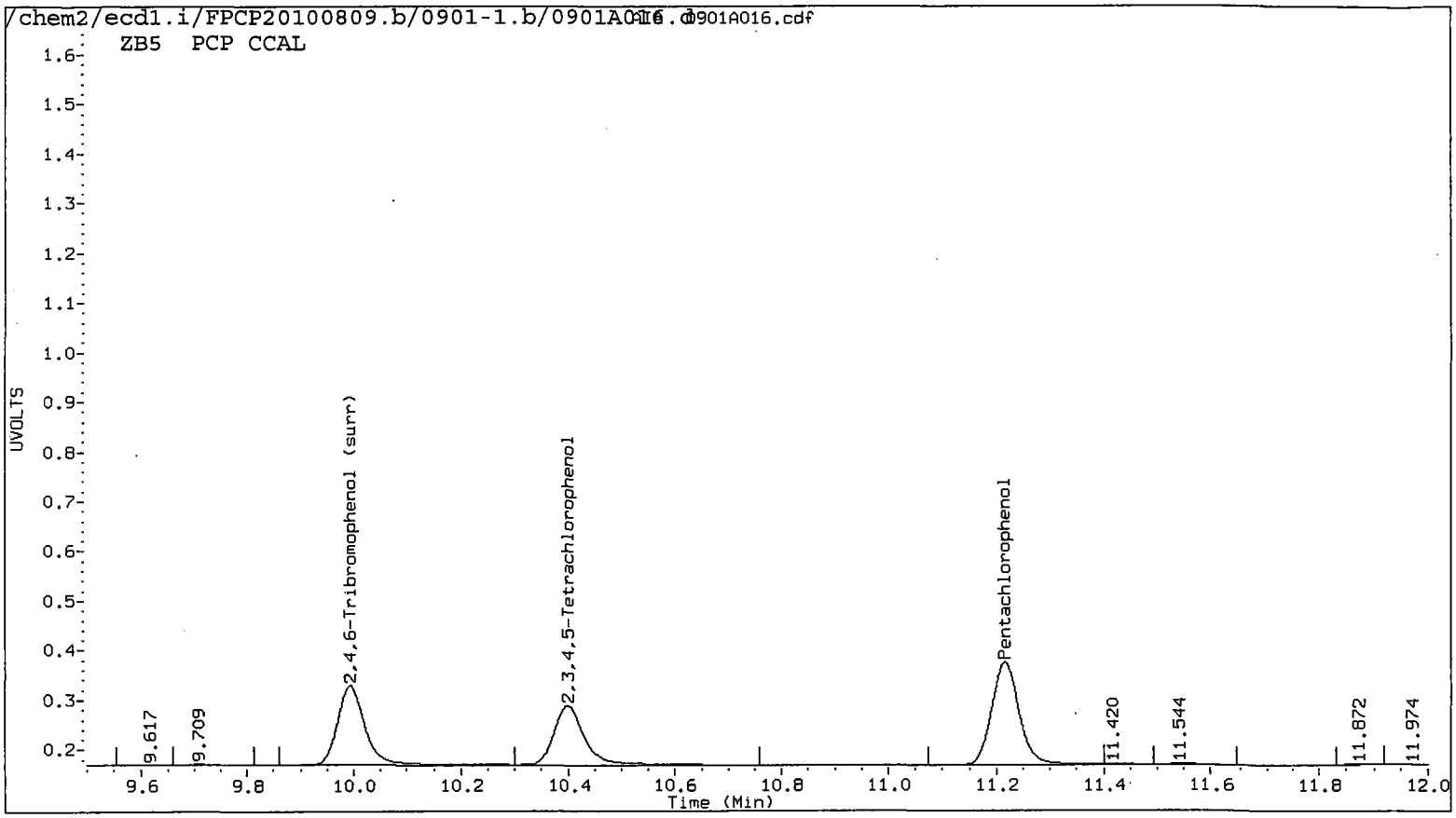
Data file 1: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A016.d ARI ID: PCP CCAL
Data file 2: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A016.d Client ID:
Method: /chem2/ecd1.i/FPCP20100809.b/FPCP.m Injection Date: 01-SEP-2010 15:14
Compound Sublist: all Report Date: 09/01/2010 16:18
Instrument: ecd1.i Matrix: NONE
Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound
11.216	-0.003	365895	11.652	-0.006	526532	23.4514	22.9311	2.2	Pentachlorophenol
7.265	0.001	199040	7.333	0.000	287596	23.4003	23.0361	1.6	2,4,6-Trichlorophenol
7.618	-0.001	199910	7.861	-0.003	275440	22.4633	22.1976	1.2	2,3,6-Trichlorophenol
8.222	-0.020	114272	8.594	-0.021	151232	22.6392	24.1022	6.3	2,4,5-Trichlorophenol
8.771	-0.021	143894	9.360	-0.020	197000	21.0338	23.0819	9.3	2,3,4-Trichlorophenol
8.999	-0.008	319906	9.265	-0.012	433132	22.6793	23.3938	3.1	2,3,5,6-Tetrachlorophenol
10.399	-0.014	239012	11.111	-0.015	327346	22.8778	22.4352	2.0	2,3,4,5-Tetrachlorophenol
6.890	-0.003	101377	7.159	-0.007	137323	198.8901	217.6613	9.0	2,4-Dichlorophenol
9.993	-0.009	289391	10.634	-0.012	429232	23.3	23.0	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	93.8	91.7
2,4,6-Trichlorophenol	93.6	92.1
2,3,6-Trichlorophenol	89.9	88.8
2,4,5-Trichlorophenol	90.6	96.4
2,3,4-Trichlorophenol	84.1	92.3
2,3,5,6-Tetrachlorophenol	90.7	93.6
2,3,4,5-Tetrachlorophenol	91.5	89.7
2,4-Dichlorophenol	79.6	87.1
2,4,6-TBP (surr)	93.1	92.0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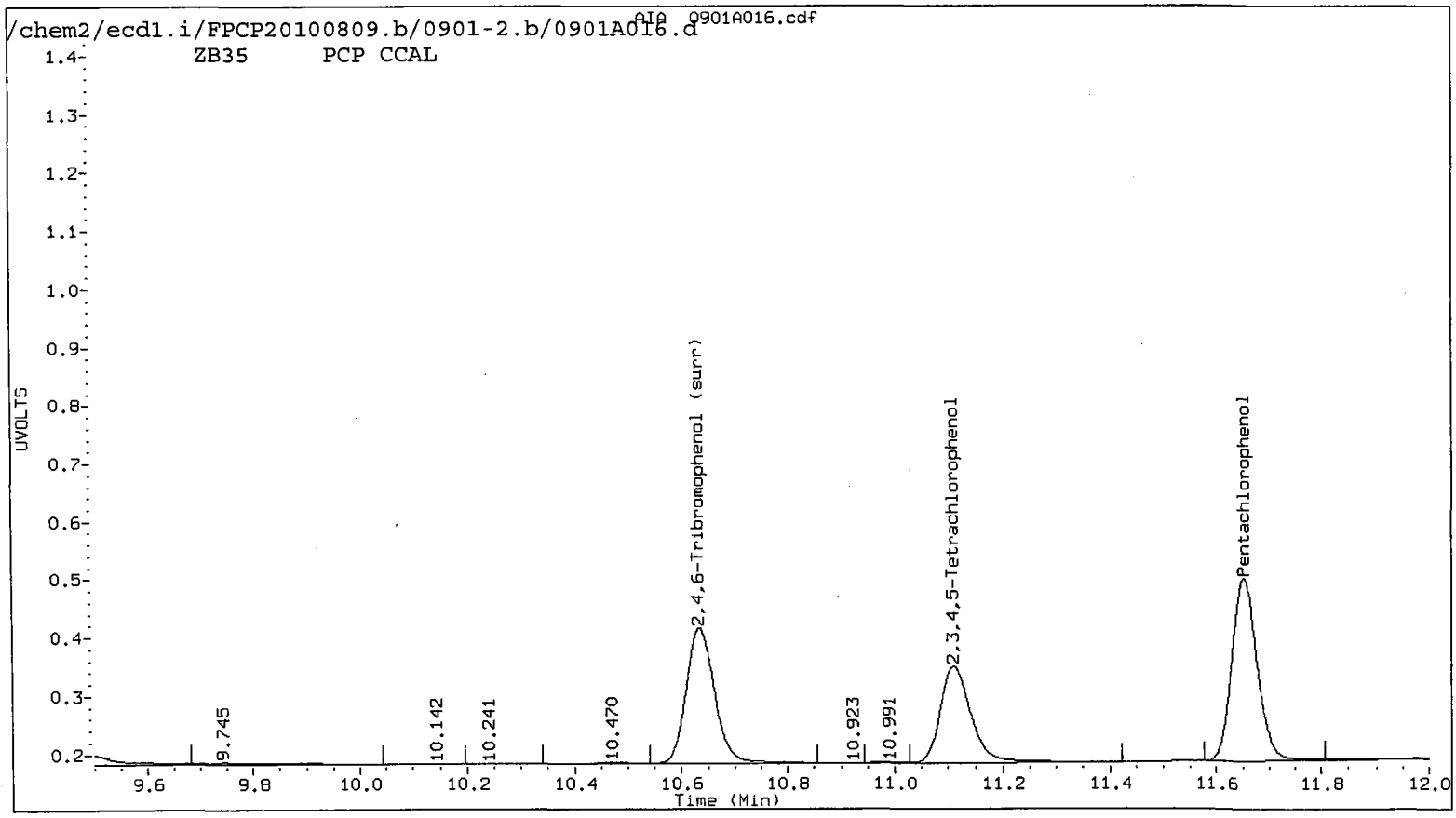
AIA 0901A016.cdf
ZB5 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.617
9.709
11.420
11.544
11.872
11.974
Time (Min)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AIA 0901A016.cdf
ZB35 PCP CCAL
UVOLTS
2,4,6-Tribromophenol (surr)
2,3,4,5-Tetrachlorophenol
Pentachlorophenol
9.745
10.142
10.241
10.470
10.923
10.991
Time (Min)

Data File: /chem2/ecd1.i/FPCP20100809.b/0901-1.b/0901A016.d

Date : 01-SEP-2010 15:14

Client ID:

Sample Info: PCP CCAL

Purge Volume: 2.0

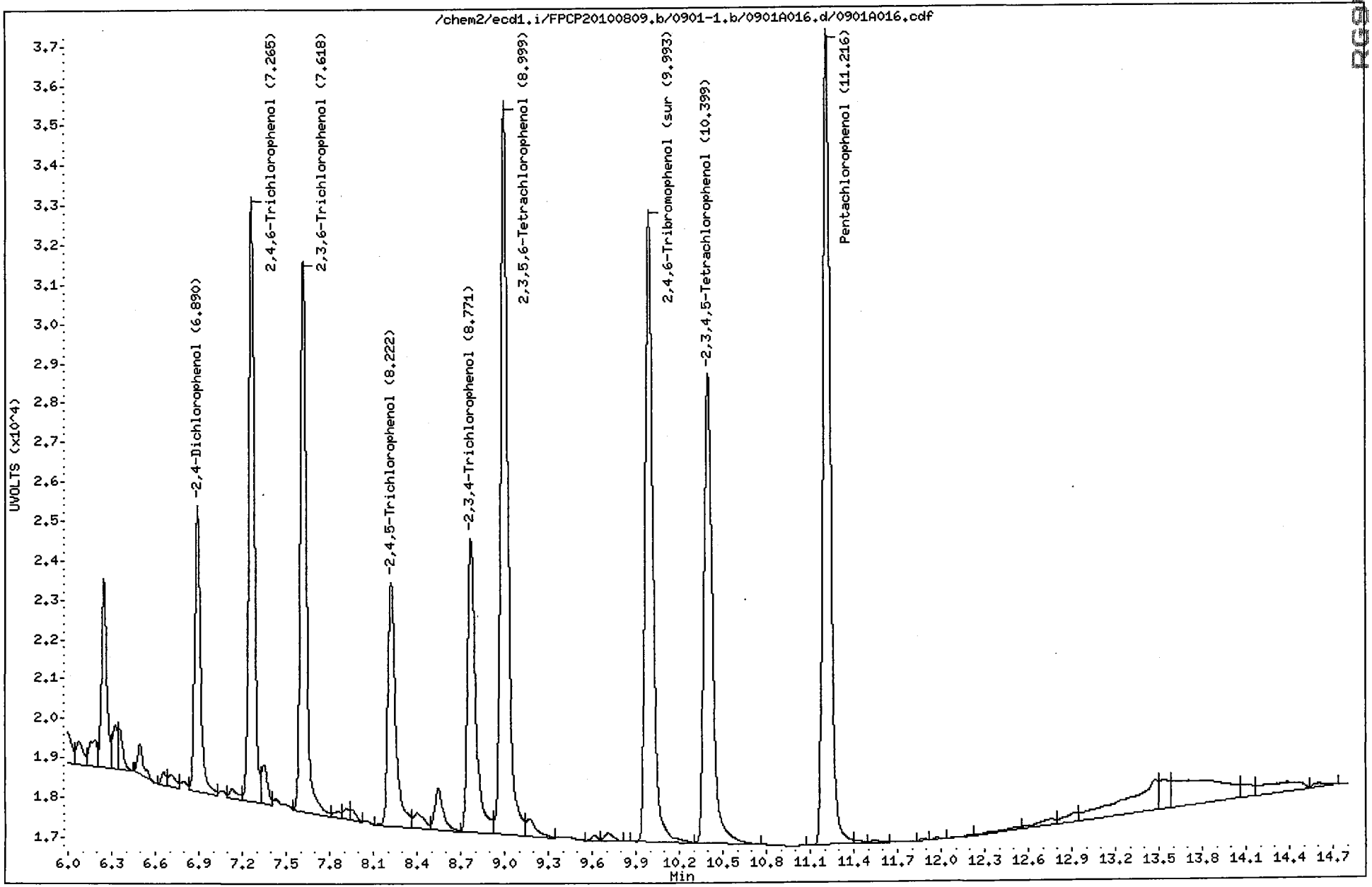
Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RGSH: 01295



Data File: /chem2/ecd1.i/FPCP20100809.b/0901-2.b/0901A016.d

Date : 01-SEP-2010 15:14

Client ID:

Sample Info: PCP CCAL

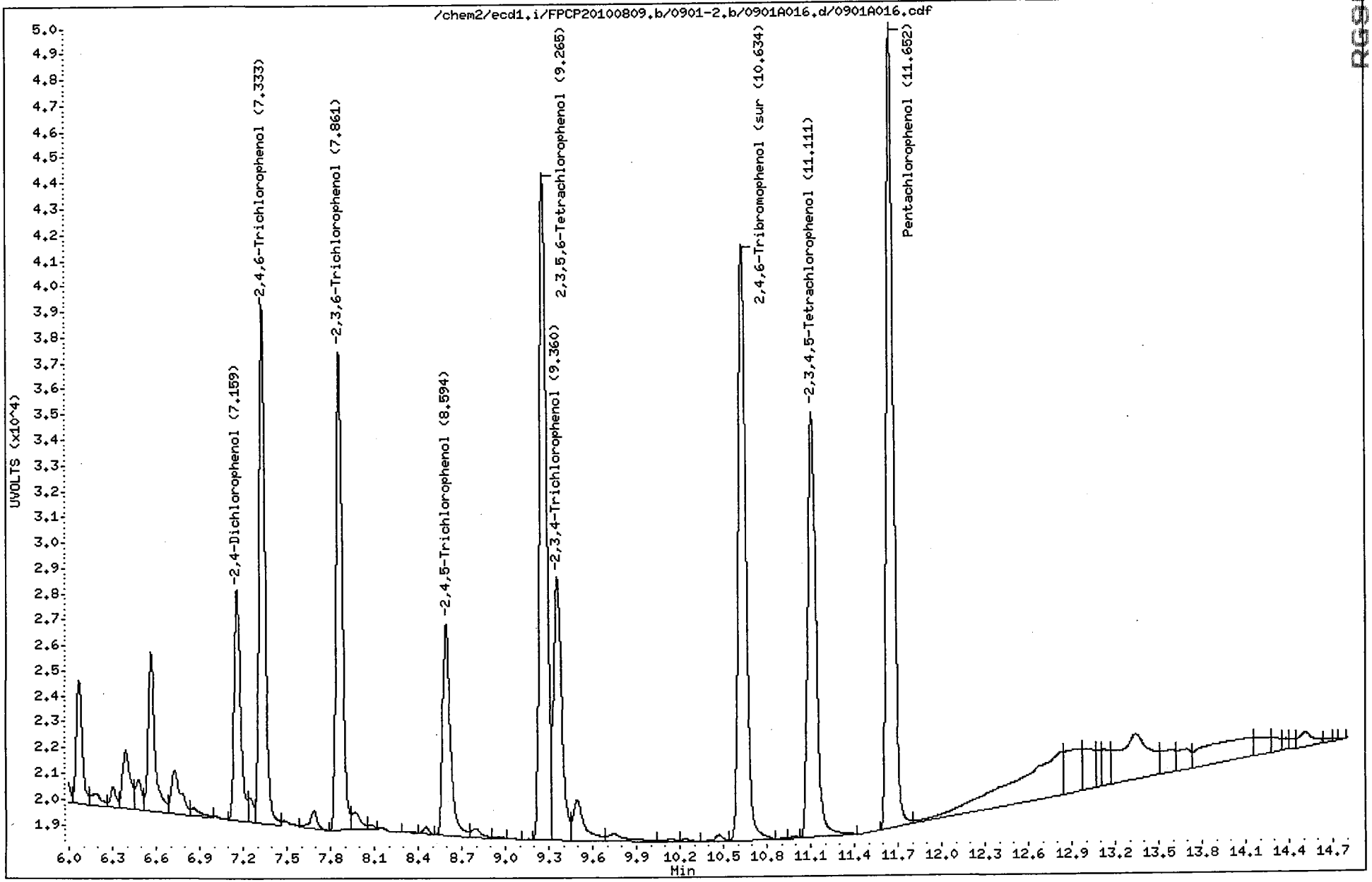
Column phase: ZB35

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

RG91 : 01206



TPHD Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG94

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

NWTPHD-Soil
Microwave (3546) (SOP # 3304S)

Preparation Test TPHD # 3
ARI Job No(s) RH 20/RG94

In-House (5ppm)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Transfer to Turbo Tube	TurboVap 123	Acid/Silica Clean (1:1) Y/N	TurboVap 103	Final Effective Volume	Volume to Lab	Comments
	RH20 MBS	Date 8/5/10	10.00g					1mL	1mL	
	SBS		↓					↓	↓	
	SBS Dup.		↓					↓	↓	
1	A	check	10.10							
↓	B		10.21							
6	RG94 A		10.02							
7	B		10.53							
5	C		10.07							
6	D		10.39							
7	E		10.30							
7	F		10.33							
19	G		10.73							
7	H		10.47							
	Hm5		10.26							
	Hm5D		10.32							
↓	I		10.16							
6	J	↓	10.43	↓	↓	↓	↓	↓	↓	
					CJZ					
Analyst/Date:	WC 8/5/10		→		8/9/10	→	→	→	→	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	O	100µL	12/11/10	WC	TH
Spike	11	100µL	4/26/11	WC	TH
Extraction Time:	19:40		Balance ID:	24150193	

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap. 11. Acid/Silica Clean-up?= Y / N. 12. TurboVap (if Silica Clean). ~~13. Vial in DCM.~~

A. Need Total Solids Y / N B. ~~Archive/Freeze~~ Y / N

RH20 only

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG94 Client ID: Floyd/Snider

Parameter: TPHD A/S Client Project: POS - LLA

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☒ No Anomalies (standard soil/sediment) A B C	WC 8/5/10
☒ Wet sediment/sludge= D I J	↓
☒ Standing Water Decanted= J	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	WC 8/5/10
☒ Rocks/Organics= D, E, F, H, I.	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

NWTPHD / NWHCID –Water
Separatory Funnel (3510C) (SOP # 3311S)

Preparation Test TPHD/HCID # 1
ARI Job No(s) RG94

In-House (0.25-0.50ppm)
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	DryVap Or (KD)	Turbo Vap 1 (2) 3	Acid/Silica Clean (1:1) (Y) / N	Final Effective Volume	Volume to Lab	Comments
	RG94 MBW	Date 8-5-10	500mL			1mL	1mL	1mL	
	SBW	↓	↓			↓	↓	↓	
PD 8-5-10	SBW Dup.	↓	↓			↓	↓	↓	
~~88~~	↓ K	Verified	500mL	↓	↓	↓	↓	↓	
					CJZ				
Analyst/Date:		PD 8-5-10		PD 8/05/10	8/9/10				

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	O	100µL	12/11/10	PD	SP
Spike	11	100µL	4/26/11	PD	SP
Extraction Time:	1125				

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

4. Extract 2X with 30mL DCM. 5. DryVap or KD at 80°. 6. TurboVap if KD. 7. Acid/Silica Clean-ups? (Y) / N.

8. Vial in DCM. A. Archive Y / (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: RG94 Client ID: Floyd/Snider

Parameter: TPHD A/S Client Project: POS - LLA

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ No Anomalies (standard soil/sediment)	
☐ Wet sediment/sludge=	
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☐ Rocks/Organics=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
Aqueous:	
☑ No Anomalies K.	PD 8-5-16
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	

TPHD Raw Data
Initial Calibration

ARI Job ID: RG94

GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel, MO;1, AK102 Curve Client ID: ARI

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest) **427S**(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): Diesel, 30wt MO;1, AK102, oTerphenyl, n-Triacontane

Instrument: FID-3A FID-3B ~~FID-4A~~ FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/28/10 Analysis Start: 7/28/10

Endrin/DDT Breakdown <15%? YES / NO / NA		Method Blank In Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery In Control?	YES / NO
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	YES / NO
Internal Standard Meets Criteria? YES / NO / NA		Special Analysis Criteria Met?	YES / NO / NA

N/A

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 7/30/10

Reviewer: _____ **Date:** 7/30/10

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 7/28/10 Analysis: MOIP4D Analyst: JM

GC Program: TPH Column No: S02037 Column Type: HP-1

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/29/10

IS/SS	Ical/Ccal	LCS/ICV
	1700.1	
	1680.3	
	1730.3	
	1727.3	

me	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF
:34	0728A001.D	RINSE		1	23 0018	0728A023.D	MOIL 2500		1
55	0728A002.D	RINSE		1	24 0040	0728A024.D	MOIL 5000		1
48	0728A003.D	RINSE		1	25 0101	0728A025.D	MOIL ICV		1
10	0728A004.D	RINSE		1	26 0122	0728A026.D	DIESEL#1		1
31	0728A005.D	RT		1	27 0144	0728A027.D	MOIL#1		1
53	0728A006.D	DIESEL#1		1	28 0205	0728A028.D	BUNKERC#1		1
15	0728A007.D	MOIL#1		1	29 0226	0728A029.D	RF99MBS1	RF99MBS1	1
36	0728A008.D	BUNKERC#1		1	30 0247	0728A030.D	RF99LCSS1	RF99LCSS1	1
20	0728A009.D	RINSE		1	31 0308	0728A031.D	RF99LCSDS1	RF99LCSDS1	1
41	0728A010.D	RT		1	32 0329	0728A032.D	RF99A	PL2C-DB-11-0	1
)2	0728A011.D	IB		1	33 0351	0728A033.D	RF99B	PL2-DB-11-10	1
24	0728A012.D	DIESEL 50		1	34 0412	0728A034.D	RF99BMS	PL2-DB-11-10	1
15	0728A013.D	DIESEL 100		1	35 0433	0728A035.D	RF99BMSD	PL2-DB-11-10	1
)7	0728A014.D	DIESEL 250		1	36 0454	0728A036.D	DIESEL#2		1
18	0728A015.D	DIESEL 500		1	37 0515	0728A037.D	MOIL#2		1
9	0728A016.D	DIESEL 1000		1	38 0537	0728A038.D	BUNKERC#2		1
1	0728A017.D	DIESEL 2500		1	39 1349	0728A039.D	RF99A	PL2C-DB-11-0	5
2	0728A018.D	DIESEL ICV		1	40 1410	0728A040.D	DIESEL#3		1
3	0728A019.D	MOIL 100		1	41 1432	0728A041.D	MOIL#3		1
5	0728A020.D	MOIL 250		1	42 1453	0728A042.D	BUNKERC#3		1
6	0728A021.D	MOIL 500		1					
7	0728A022.D	MOIL 1000		1					

JM

JM 7/30/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Report Date : 30-Jul-2010 17:02

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	0728A012	0728A013	0728A014	0728A015	0728A016	0728A017
INJ.DATE:	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010
INJ.TIME:	20:24	20:45	21:07	21:28	21:49	22:11

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Toluene	1.545	1.545	1.542	1.550	1.522	1.527	1.536	1.436-1.636	1.539	0.011
	37 JET-A	1.621	1.620	1.617	1.625	1.631	1.619	1.624	1.574-1.674	1.622	0.005
	2 C8	1.699	1.703	1.700	1.707	1.681	1.696	1.694	1.594-1.794	1.698	0.009
	3 C10	2.459	2.452	2.450	2.453	2.453	2.446	2.455	2.405-2.505	2.452	0.004
	4 C12	3.101	3.103	3.102	3.103	3.105	3.108	3.091	3.041-3.141	3.104	0.002
	5 C14	3.623	3.659	3.657	3.658	3.660	3.623	3.641	3.591-3.691	3.647	0.018
	6 C16	4.138	4.123	4.122	4.122	4.123	4.129	4.128	4.078-4.178	4.126	0.006
	7 C18	4.565	4.567	4.567	4.564	4.571	4.575	4.569	4.519-4.619	4.568	0.004
$	8 o-terph	4.760	4.762	4.771	4.780	4.795	4.830	4.767	4.717-4.817	4.783	0.026
	9 C20	5.072	5.075	5.073	5.074	5.075	5.065	5.072	5.022-5.122	5.072	0.004
	10 C22	5.592	5.588	5.589	5.584	5.588	5.599	5.589	5.539-5.639	5.590	0.005
	11 C24	6.019	6.023	6.028	6.031	6.012	6.014	6.020	5.970-6.070	6.021	0.008
	12 C25	6.225	6.197	6.201	6.201	6.201	6.200	6.212	6.162-6.262	6.204	0.010
	13 C26	6.395	6.406	6.387	6.392	6.390	6.393	6.392	6.342-6.442	6.394	0.007
	14 C28	6.710	6.710	6.716	6.713	6.716	6.714	6.723	6.673-6.773	6.713	0.003
$	15 Triacon Surr	7.038	7.036	7.038	7.035	7.032	7.036	7.038	6.988-7.088	7.036	0.002
	16 C32	7.303	7.307	7.308	7.307	7.302	7.300	7.309	7.259-7.359	7.304	0.003

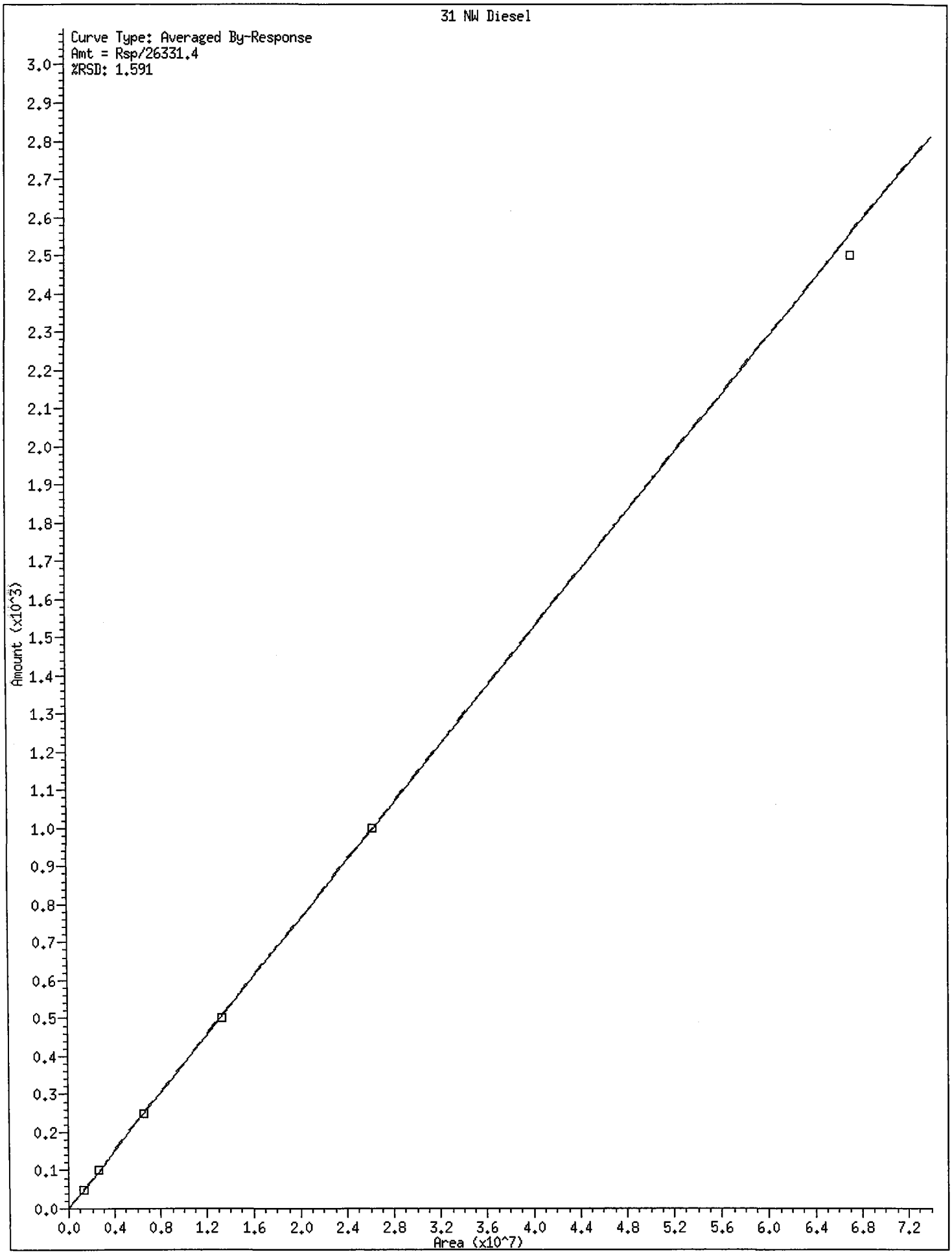
eviewer 1 ______ Date: 7/30/10
eviewer 2 ______ Date: 7/30/10

G94 : 01215

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	7.594	7.593	7.600	7.599	7.591	7.598	7.596	7.546-7.646	7.596	0.004
18 Filter Peak	8.346	8.338	8.344	8.347	8.345	8.352	8.343	8.243-8.443	8.345	0.004
19 C36	7.939	7.942	7.941	7.946	7.947	7.939	7.945	7.895-7.995	7.942	0.003
20 C38	8.383	8.378	8.377	8.380	8.386	8.372	8.380	8.330-8.430	8.379	0.005
21 C40	8.938	8.938	8.935	8.933	8.938	8.930	8.935	8.885-8.985	8.935	0.003
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++


31 NW Diesel
Curve Type: Averaged By-Response
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%RSD: 1.591
Amount (x10^3)
Area (x10^7)
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
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
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0.0
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0.8
1.2
1.6
2.0
2.4
2.8
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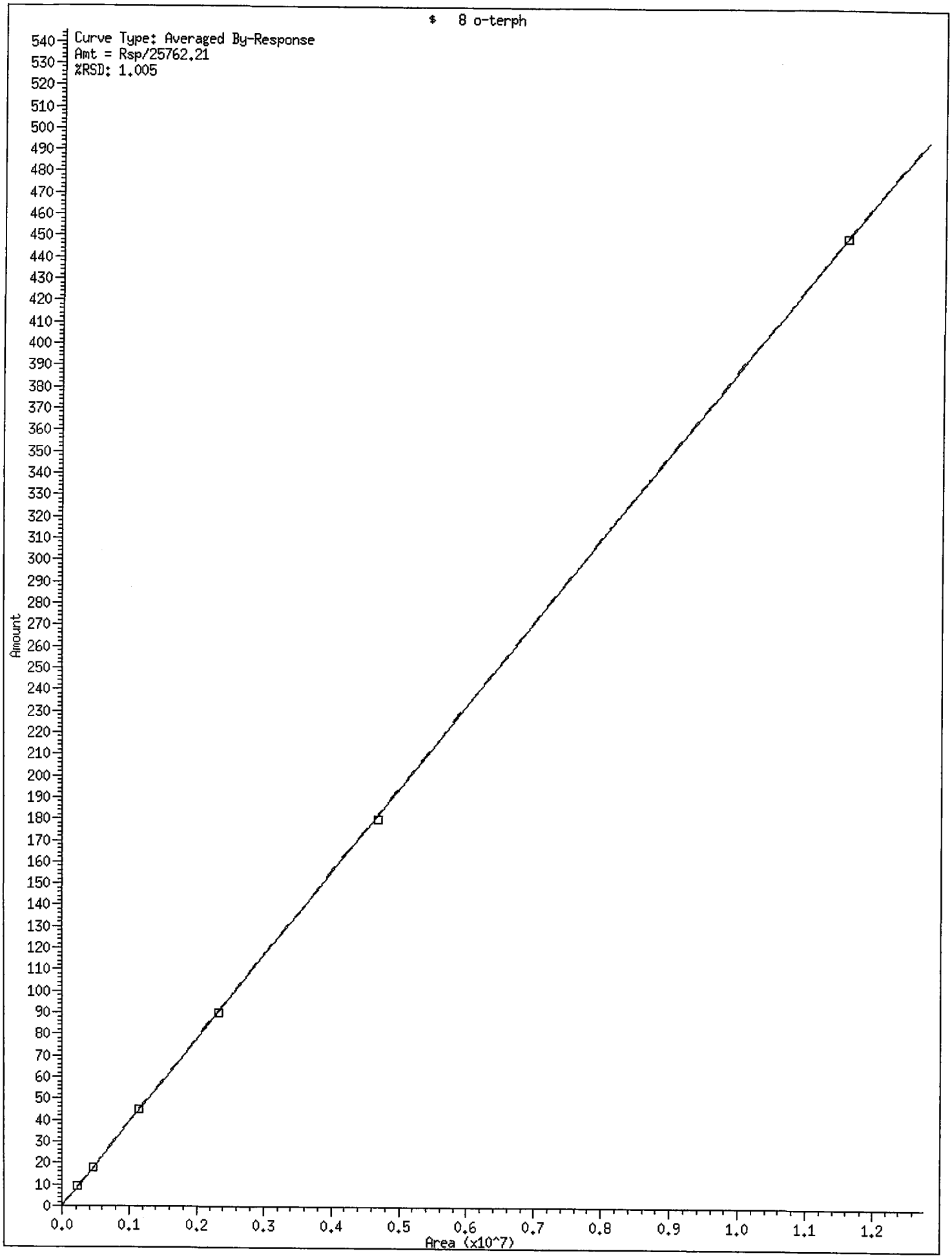
6.8
7.2


$ 8 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/25762.21
%RSD: 1.005
Amount
Area (x10^7)

eport Date : 30-Jul-2010 17:02

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

ethod File: /chem2/fid9.i/20100728.B/ftphfid9a.m
atch File: /chem2/fid9.i/20100728.B
ıst ID: fid9.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
LENAME:	0728A019	0728A020	0728A021	0728A022	0728A023	0728A024
J.DATE:	28-JUL-2010	28-JUL-2010	28-JUL-2010	28-JUL-2010	29-JUL-2010	29-JUL-2010
J.TIME:	22:53	23:15	23:36	23:57	00:18	00:40

* Not in Moil range

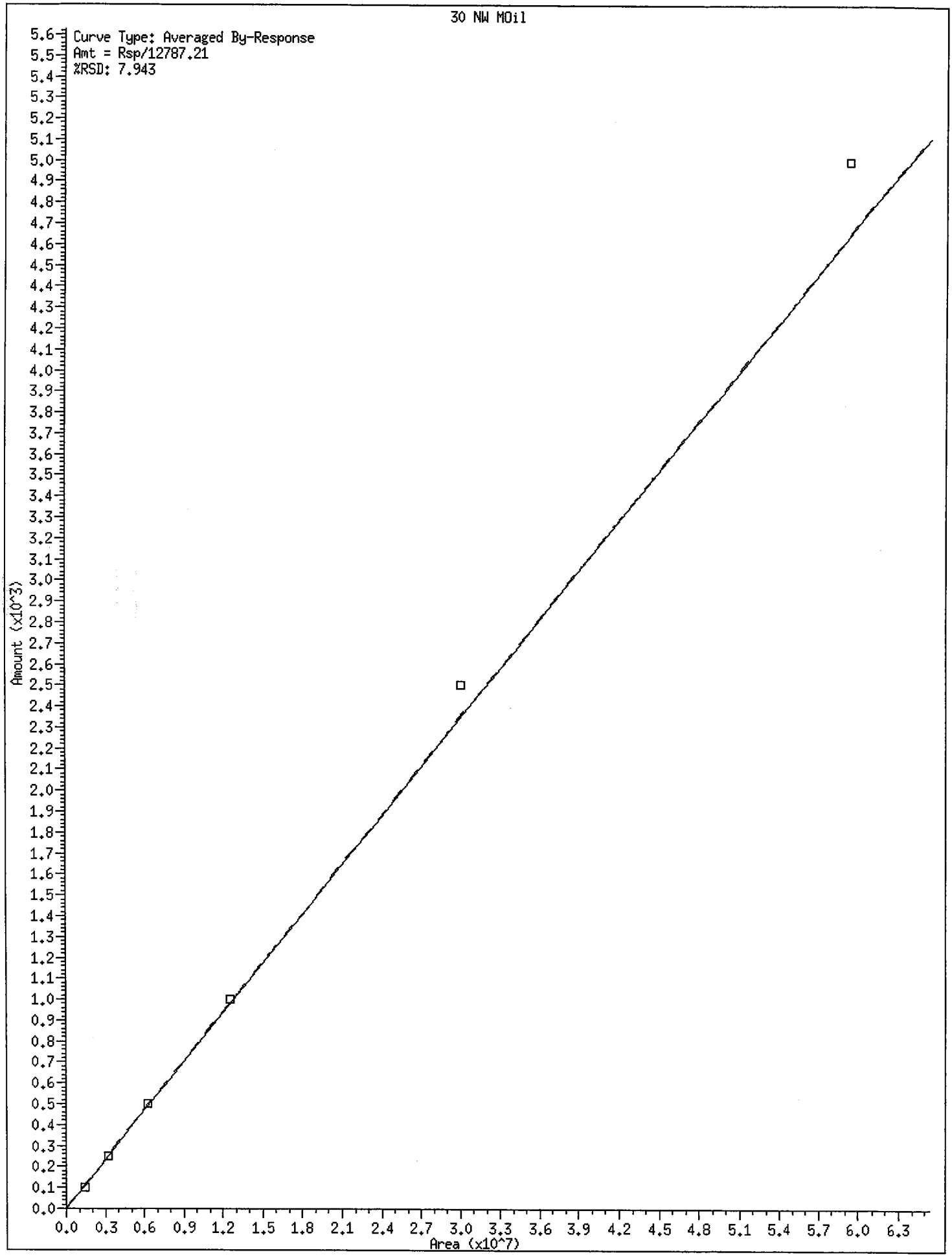
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.544	1.542	1.544	1.538	* +++++	1.505	1.536	1.436-1.636	1.535	0.017
37 JET-A	1.598	1.620	1.621	* +++++	1.654	* +++++	1.624	1.574-1.674	1.624	0.023
2 C8	1.726	1.701	1.728	1.703	1.718	1.724	1.694	1.594-1.794	1.717	0.012
3 C10	2.453	2.453	2.454	2.453	2.459	2.462	2.455	2.405-2.505	2.456	0.004
4 C12	3.087	3.084	3.094	3.089	3.085	3.104	3.091	3.041-3.141	3.090	0.008
5 C14	3.638	3.641	3.642	3.639	3.640	3.646	3.641	3.591-3.691	3.641	0.003
6 C16	4.130	4.130	4.125	4.129	4.130	4.129	4.128	4.078-4.178	4.129	0.002
7 C18	4.564	4.564	4.561	4.560	4.559	4.560	4.569	4.519-4.619	4.561	0.002
8 o-terph	4.766	4.766	4.764	4.764	4.762	4.761	4.767	4.717-4.817	4.764	0.002
9 C20	5.075	5.076	5.072	5.072	5.069	5.070	5.072	5.022-5.122	5.072	0.003
10 C22	5.588	5.593	5.593	5.597	5.589	5.582	5.589	5.539-5.639	5.590	0.005
11 C24	6.024	6.019	6.019	6.018	6.020	6.023	6.020	5.970-6.070	6.020	0.003
12 C25	6.222	6.217	6.211	6.213	6.215	6.207	6.212	6.162-6.262	6.214	0.005
13 C26	6.393	6.394	6.394	6.389	6.388	6.393	6.392	6.342-6.442	6.392	0.003
14 C28	6.715	6.719	6.721	6.720	6.725	6.726	6.723	6.673-6.773	6.721	0.004
15 Triacon Surr	7.080	7.087	7.094	7.105	7.129	7.160	7.038	6.988-7.088	7.109	0.030
16 C32	7.310	7.310	7.312	7.310	7.308	7.305	7.309	7.259-7.359	7.309	0.002

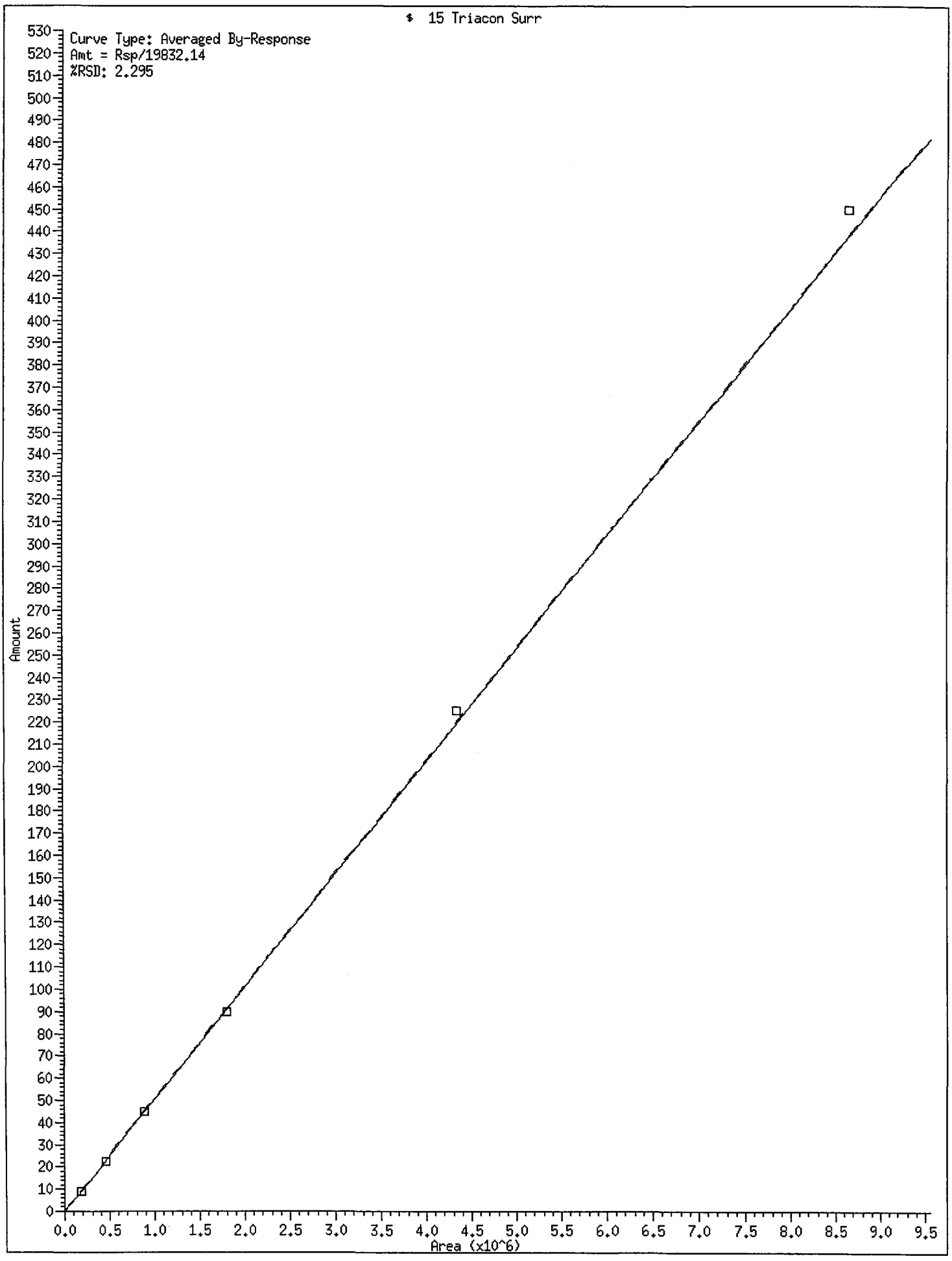
:viewer 1 ______ Date: 7/30/10
:viewer 2 ______ Date: 7/30/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20100728.B/ftphfid9a.m
Batch File: /chem2/fid9.i/20100728.B
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	7.596	7.596	7.600	7.599	7.594	7.597	7.596	7.546-7.646	7.597	0.002
18 Filter Peak	8.344	8.341	8.350	8.345	8.350	8.346	8.343	8.243-8.443	8.346	0.003
19 C36	7.940	7.941	7.944	7.948	7.944	7.943	7.945	7.895-7.995	7.943	0.003
20 C38	8.385	8.372	8.382	8.376	8.379	8.379	8.380	8.330-8.430	8.379	0.005
21 C40	8.936	8.931	8.934	8.939	8.938	8.935	8.935	8.885-8.985	8.935	0.003
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++


30 NW MOil
Curve Type: Averaged By-Response
Amt = Rsp/12787.21
%RSD: 7.943
Amount (x10^3)
Area (x10^7)


$ 15 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/19832.14
%RSD: 2.295
Amount
Area (x10^6)

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A010.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: RT
Client ID:
Injection: 28-JUL-2010 19:41
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.517	-0.019	514141	368763	GAS (Tol-C12)	1598268	76
C8	1.679	-0.015	287076	219985	DIESEL (C12-C24)	2425733	92
C10	2.459	0.004	526070	361774	M.OIL (C24-C38)	2580605	202
C12	3.102	0.011	705102	359778	AK-102 (C10-C25)	3167879	109
C14	3.656	0.015	709667	369366	AK-103 (C25-C36)	2254193	450
C16	4.147	0.018	748678	378104			
C18	4.594	0.025	597504	389741			
C20	5.109	0.036	506632	399062			
C22	5.624	0.035	543393	407898			
C24	6.058	0.038	581384	415443			
C25	6.254	0.041	732950	574610			
C26	6.434	0.042	563052	414700			
C28	6.769	0.046	524645	402665			
C32	7.355	0.046	442076	355003	JP-4 (Tol-C14)	1979943	121
C34	7.657	0.060	305593	316465	BUNKERC (C10-C38)	5745980	655
Filter Peak	8.342	-0.001	1743	1072			
C36	8.026	0.081	206132	287767			
C38	8.492	0.112	129300	109189			
C40	9.087	0.151	90977	37584			
o-terph	4.767	0.000	1717828	1429326	JET-A (C10-C18)	1904617	138
Triacon Surr	7.082	0.044	1365216	1311650	JP8 (Tol-C16)	2365997	134

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1429326	55.5	123.3
Triacontane	1311650	66.1	147.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

7/30/10

Data File: /chem2/fid9.i/20100728.B/0728A010.D

Date : 28-JUL-2010 19:41

Client ID:

Sample Info: RT

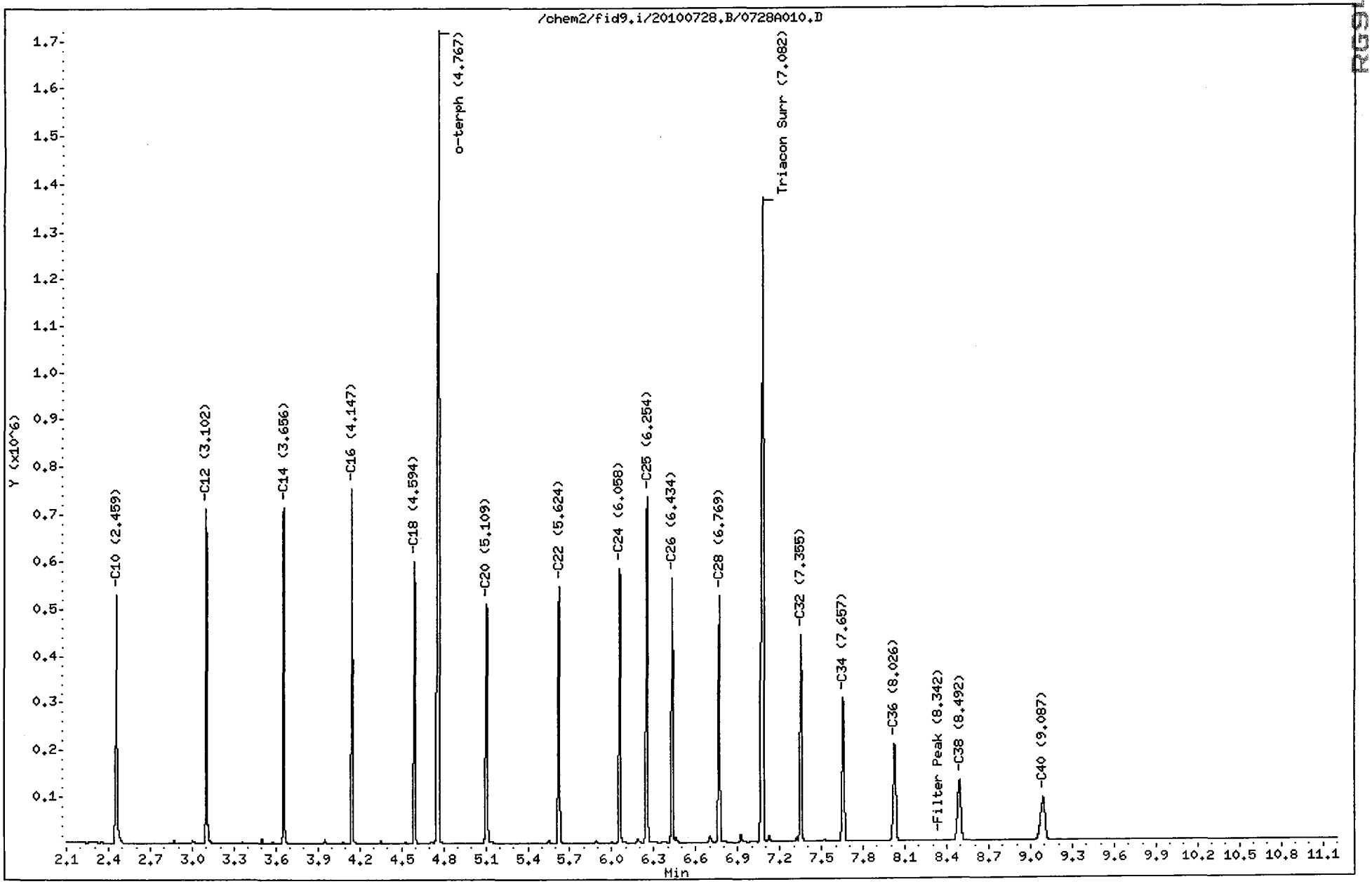
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RGSH:01.224



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A011.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: IB
Client ID:
Injection: 28-JUL-2010 20:02
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.530	-0.006	10941	17318	GAS (Tol-C12)	213324	10
C8	1.689	-0.004	6937	4554	DIESEL (C12-C24)	27462	1
C10	2.452	-0.003	2699	2277	M.OIL (C24-C38)	135692	11
C12	3.103	0.012	581	482	AK-102 (C10-C25)	59825	2
C14	3.647	0.006	145	62	AK-103 (C25-C36)	103591	21
C16	4.132	0.003	47	14			
C18	4.567	-0.002	71	44			
C20	5.077	0.005	81	41			
C22	5.586	-0.003	141	94			
C24	6.011	-0.009	520	631			
C25	6.214	0.002	168	71			
C26	6.389	-0.003	226	197			
C28	6.736	0.013	375	109			
C32	7.298	-0.011	1141	226	JP-4 (Tol-C14)	221641	14
C34	7.601	0.004	1286	813	BUNKERC (C10-C38)	194987	22
Filter Peak	8.344	0.001	1309	1007			
C36	7.945	0.001	1333	1009			
C38	8.378	-0.003	1295	257			
C40	8.936	0.001	1347	505			
o-terph	4.769	0.002	1793639	1571761	JET-A (C10-C18)	48714	4
Triacon Surr	7.081	0.043	1256163	1194769	JP8 (Tol-C16)	226922	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1571761	61.0	135.6
Triacontane	1194769	60.2	133.9

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A011.D

Date : 28-JUL-2010 20:02

Client ID:

Sample Info: IB

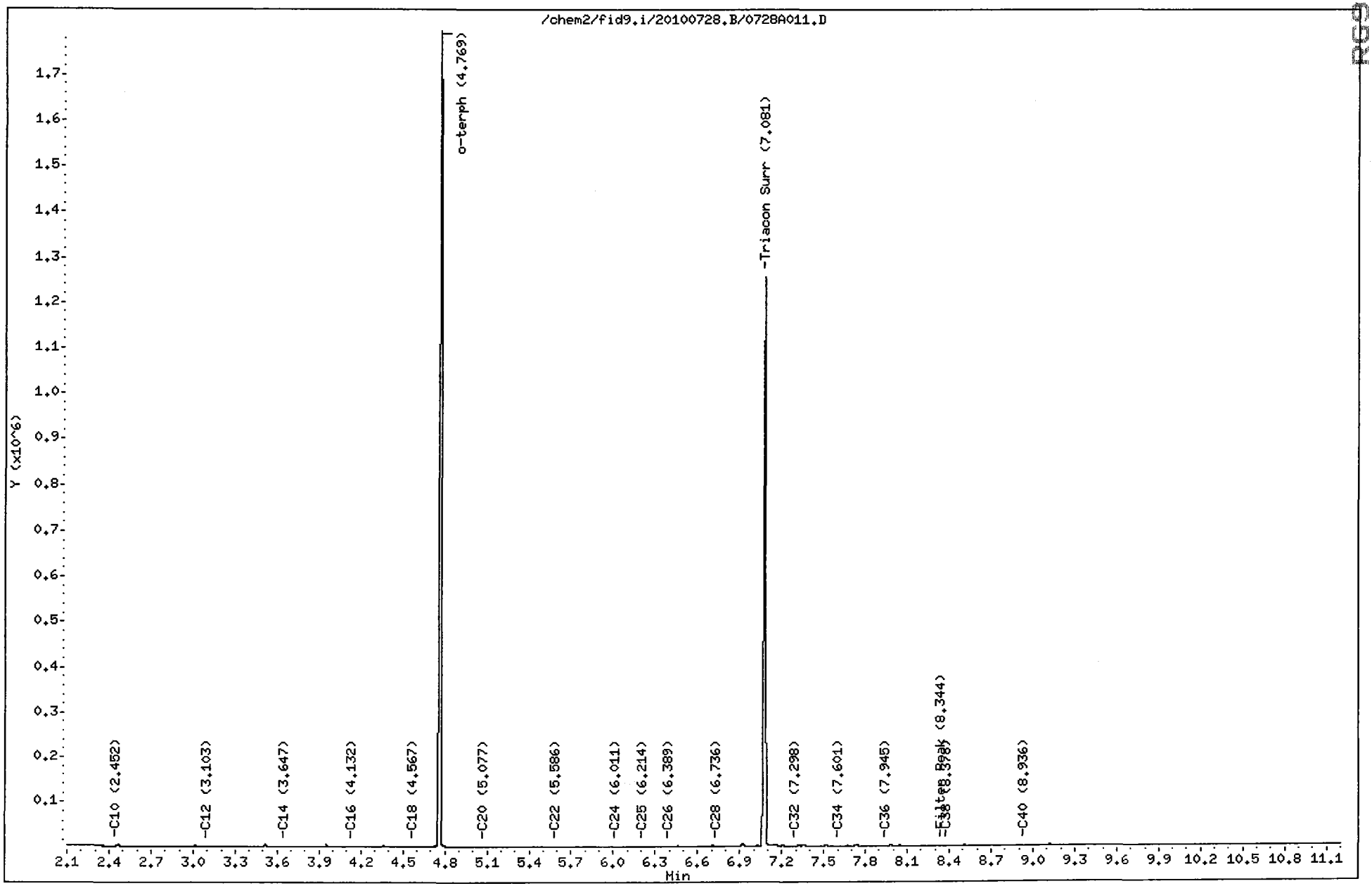
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RG91 : 01226



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A012.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 50
Client ID:
Injection: 28-JUL-2010 20:24
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.545	0.009	7102	15475	GAS (Tol-C12)	304122	14
C8	1.699	0.005	4935	5847	DIESEL (C12-C24)	1289892	49
C10	2.459	0.004	6197	8547	M.OIL (C24-C38)	72828	6
C12	3.101	0.010	13983	8220	AK-102 (C10-C25)	1422020	49 M
C14	3.623	-0.018	9291	10648	AK-103 (C25-C36)	50537	10
C16	4.138	0.009	11473	15225			
C18	4.565	-0.004	9397	11253			
C20	5.072	-0.001	4990	3711			
C22	5.592	0.004	2910	2637			
C24	6.019	-0.001	1136	455			
C25	6.225	0.013	442	364			
C26	6.395	0.003	185	147			
C28	6.710	-0.013	1703	1464			
C32	7.303	-0.006	467	137	JP-4 (Tol-C14)	499108	30
C34	7.594	-0.002	729	202	BUNKERC (C10-C38)	1491900	170 M
Filter Peak	8.346	0.003	768	227			
C36	7.939	-0.006	787	1098			
C38	8.383	0.003	750	640			
C40	8.938	0.003	800	514			
o-terph	4.760	-0.007	374938	229869	JET-A (C10-C18)	997196	72
Triacon Surr	7.038	0.000	197	80	JP8 (Tol-C16)	827113	47

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	229869	8.9	19.8
Triacontane	80	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A012.D

Date : 28-JUL-2010 20:24

Client ID:

Sample Info: DIESEL 50

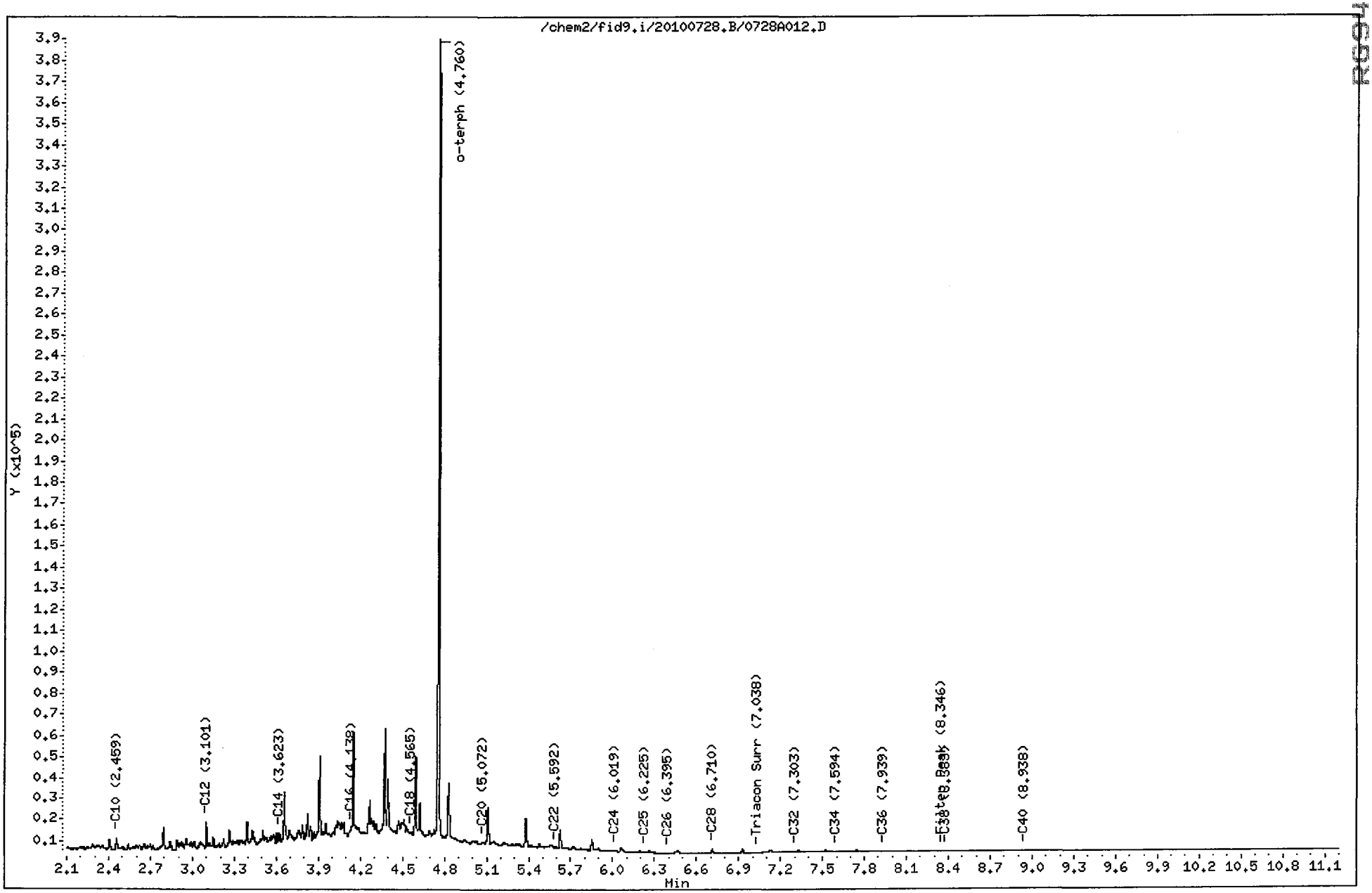
Column phase: RTX-1

Instrument: fid9.i

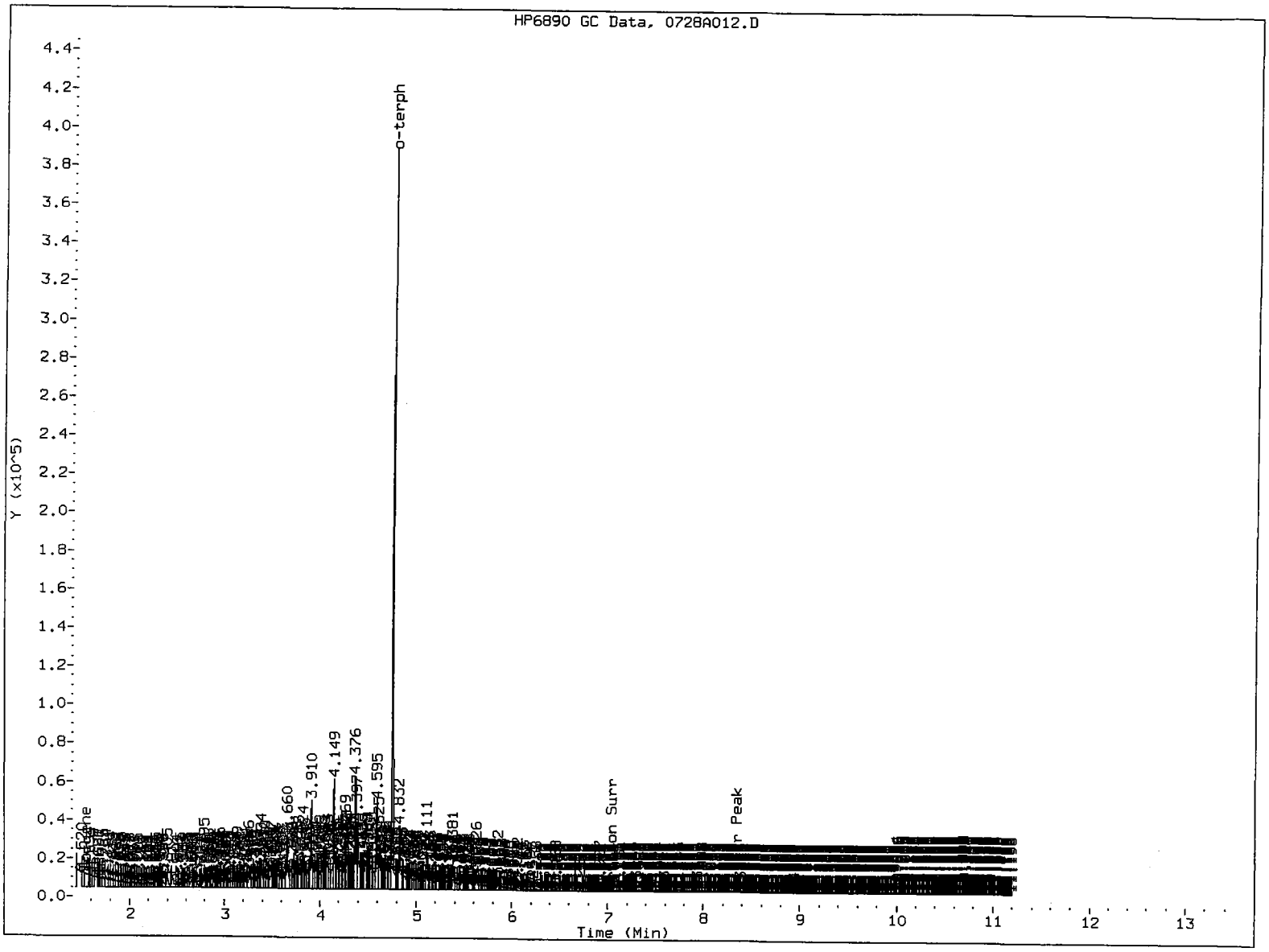
Operator: MS

Column diameter: 0.25

R69J : 01228



FID:9A-2C/RTX-1 DIESEL 50 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MM Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A013.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 100
Client ID:
Injection: 28-JUL-2010 20:45
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.545	0.009	9394	12882	GAS (Tol-C12)	449059	21	
C8	1.703	0.009	5426	7074	DIESEL (C12-C24)	2602087	99	
C10	2.452	-0.003	3226	2569	M.OIL (C24-C38)	87640	7	
C12	3.103	0.012	29285	17940	AK-102 (C10-C25)	2864062	99	M
C14	3.659	0.018	59261	58165	AK-103 (C25-C36)	61637	12	
C16	4.123	-0.005	19941	17906				
C18	4.567	-0.002	19222	19309				
C20	5.075	0.002	10542	10663				
C22	5.588	0.000	5975	5552				
C24	6.023	0.003	2217	1308				
C25	6.197	-0.015	2531	4056				
C26	6.406	0.015	394	352				
C28	6.710	-0.013	3648	2966				
C32	7.307	-0.002	362	195	JP-4 (Tol-C14)	845763	52	
C34	7.593	-0.004	637	240	BUNKERC (C10-C38)	2943973	336	M
Filter Peak	8.338	-0.005	643	405				
C36	7.942	-0.002	671	500				
C38	8.378	-0.002	638	365				
C40	8.938	0.002	649	435				
o-terph	4.762	-0.005	704196	457301	JET-A (C10-C18)	2010708	146	
Triacon Surr	7.036	-0.002	119	42	JP8 (Tol-C16)	1503559	85	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	457301	17.8	39.4
Triacontane	42	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

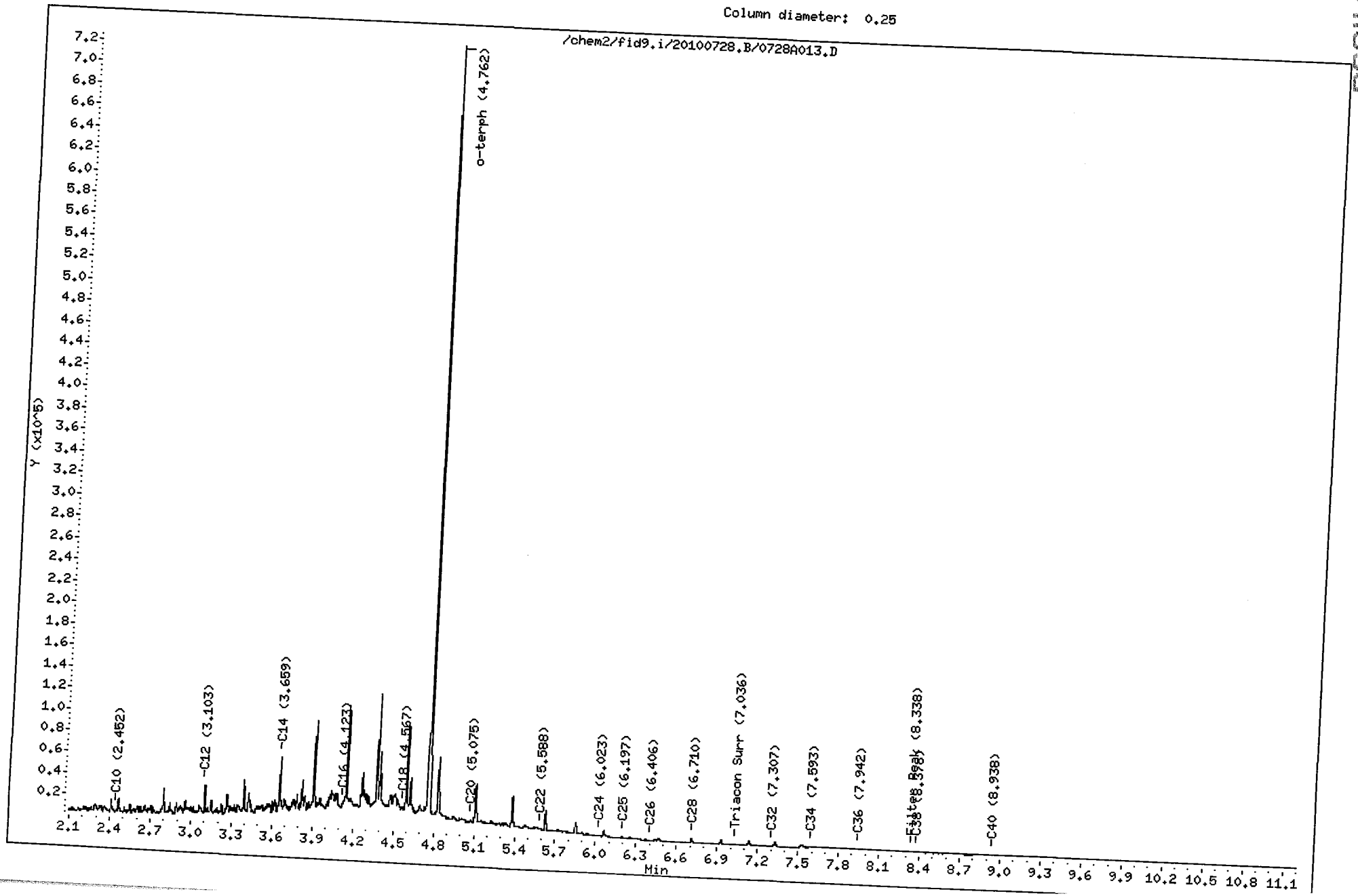
Data File: /chem2/fid9.i/20100728.B/0728A013.D
Date : 28-JUL-2010 20:45
Client ID:
Sample Info: DIESEL 100

Instrument: fid9.i

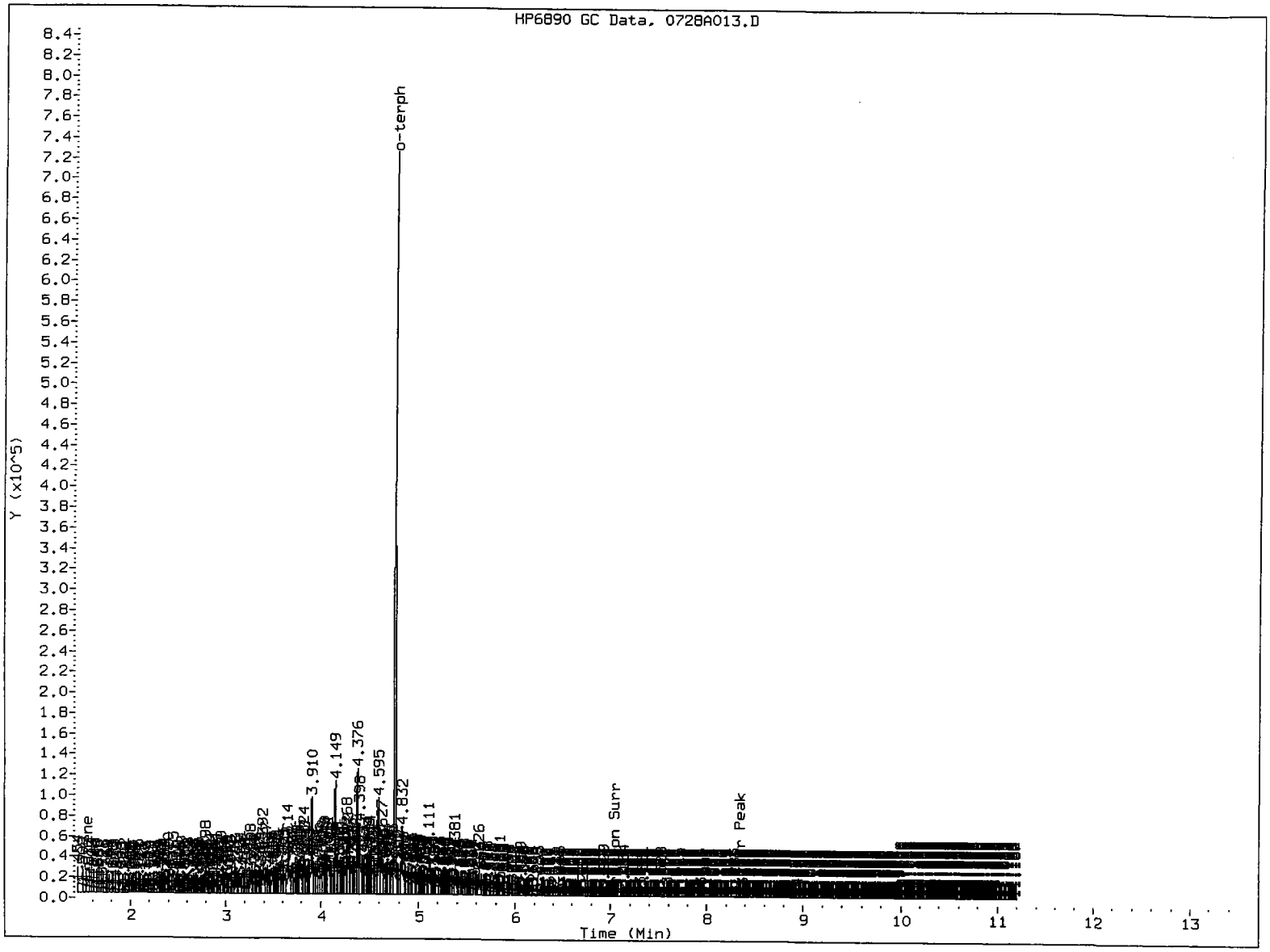
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG9L-01231



FID:9A-2C/RTX-1 DIESEL 100 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/02

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A014.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 250
Client ID:
Injection: 28-JUL-2010 21:07
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	14752	16460	GAS (Tol-C12)	999032	48
C8	1.700	0.006	8159	9848	DIESEL (C12-C24)	6571699	250
C10	2.450	-0.005	6508	5183	M.OIL (C24-C38)	128061	10
C12	3.102	0.011	80325	46536	AK-102 (C10-C25)	7261009	250 M
C14	3.657	0.016	148765	146845	AK-103 (C25-C36)	95793	19
C16	4.122	-0.007	48814	34422			
C18	4.567	-0.002	47241	38471			
C20	5.073	0.001	26043	28336			
C22	5.589	0.000	14890	4727			
C24	6.028	0.008	5981	4805			
C25	6.201	-0.012	6774	13133			
C26	6.387	-0.005	1514	1078			
C28	6.716	-0.007	5763	5256			
C32	7.308	-0.001	228	49	JP-4 (Tol-C14)	2097448	128
C34	7.600	0.003	463	110	BUNKERC (C10-C38)	7369358	840 M
Filter Peak	8.344	0.001	446	316			
C36	7.941	-0.004	482	433			
C38	8.377	-0.004	442	324			
C40	8.935	0.000	425	91			
o-terph	4.771	0.004	1353388	1159153	JET-A (C10-C18)	5066220	367
Triacon Surr	7.038	0.000	49	14	JP8 (Tol-C16)	3698235	210

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159153	45.0	100.0
Triacontane	14	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A014.D

Date : 28-JUL-2010 21:07

Client ID:

Sample Info: DIESEL 250

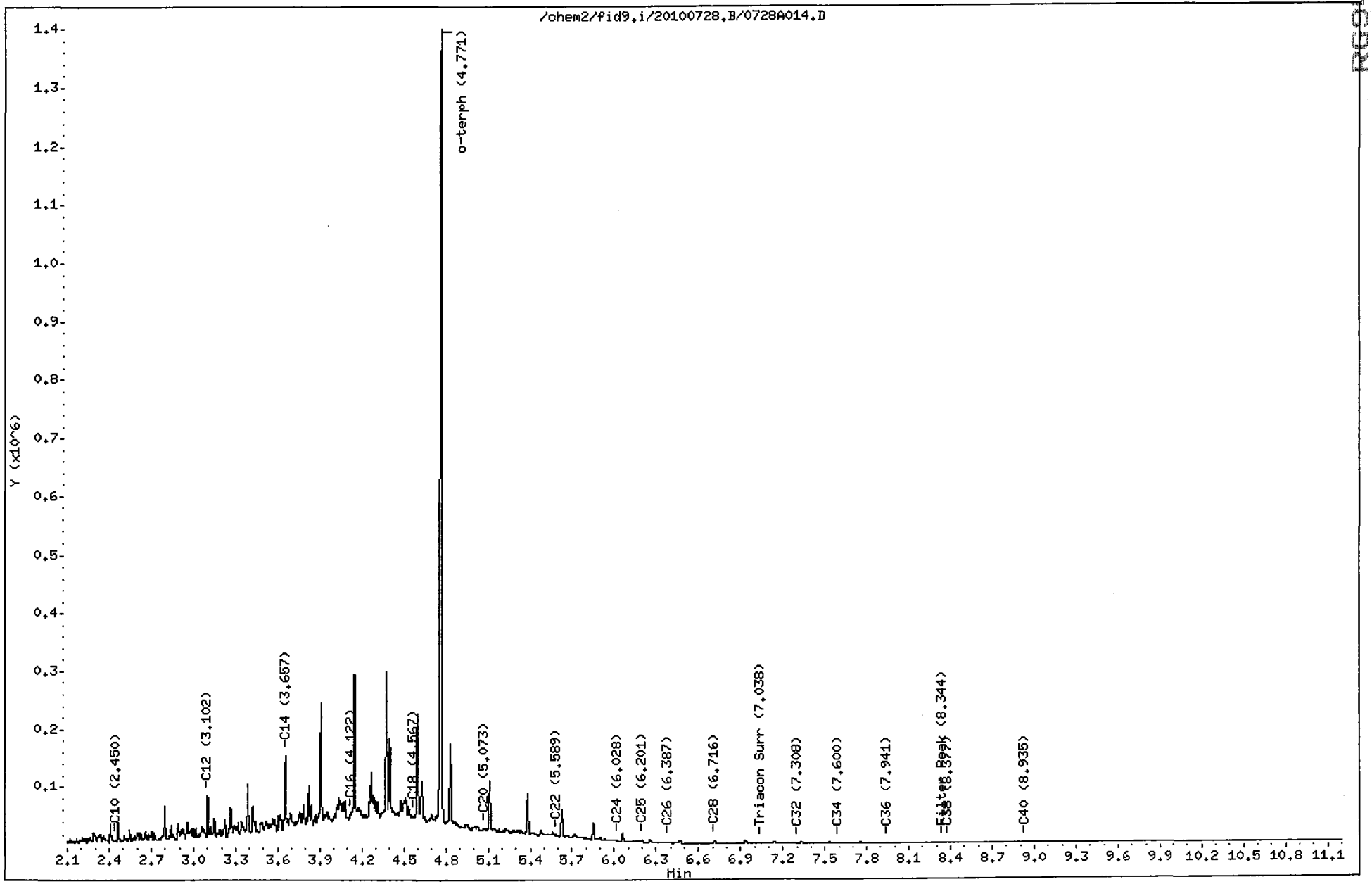
Column phase: RTX-1

Instrument: fid9.i

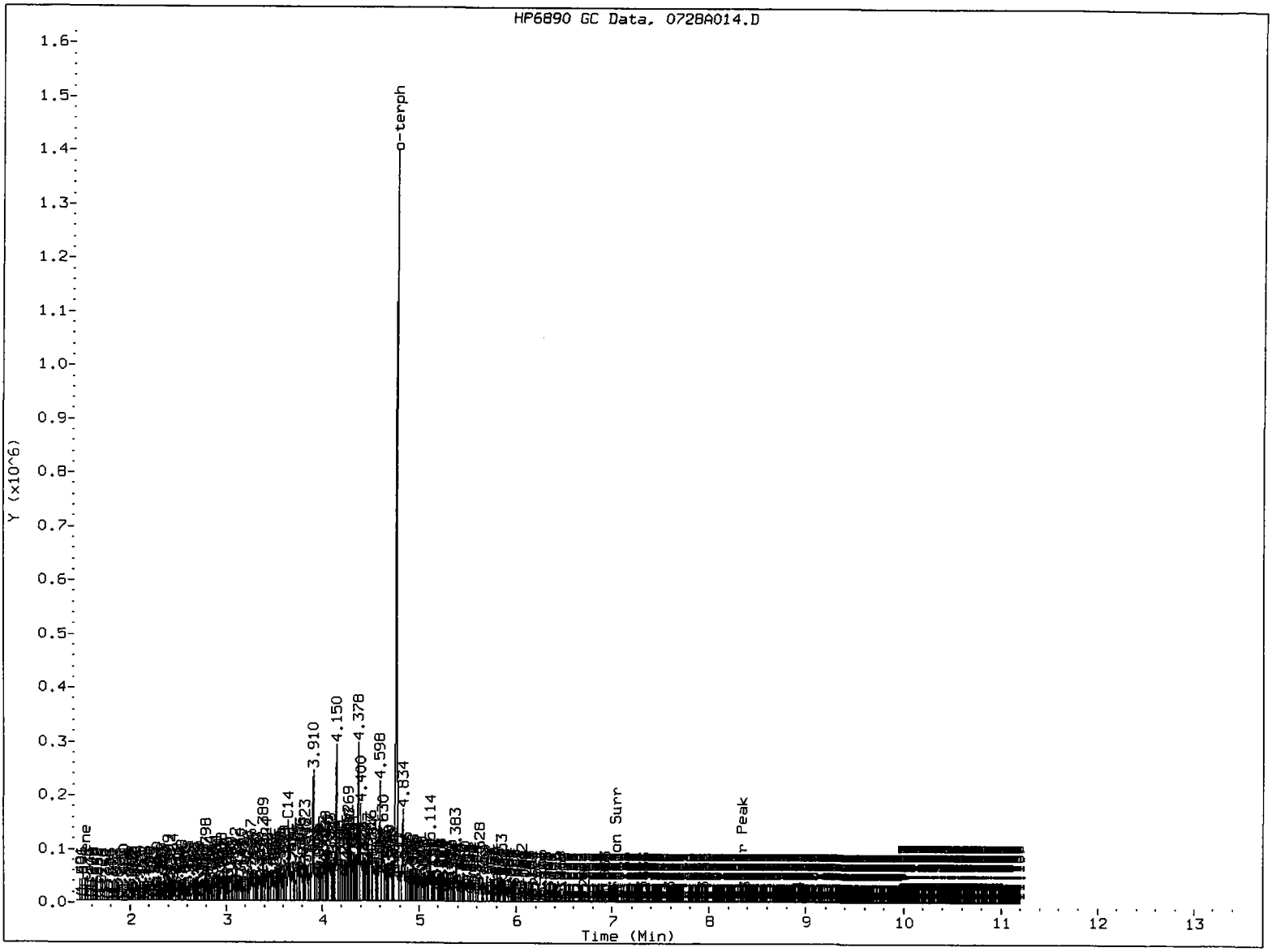
Operator: MS

Column diameter: 0.25

RGGI: 01231



FID:9A-2C/RTX-1 DIESEL 250 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/08

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A015.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 500
Client ID:
Injection: 28-JUL-2010 21:28
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.550	0.014	24092	21960	GAS (Tol-C12)	1901504	91
C8	1.707	0.013	12840	13683	DIESEL (C12-C24)	13349530	507
C10	2.453	-0.002	10841	4396	M.OIL (C24-C38)	182963	14
C12	3.103	0.012	165409	95735	AK-102 (C10-C25)	14740415	507 M
C14	3.658	0.017	311239	296922	AK-103 (C25-C36)	133392	27
C16	4.122	-0.006	99870	66038			
C18	4.564	-0.005	95431	110341			
C20	5.074	0.002	52479	17444			
C22	5.584	-0.004	30444	11329			
C24	6.031	0.011	12477	13304			
C25	6.201	-0.012	7950	11851			
C26	6.392	0.000	3328	3066			
C28	6.713	-0.010	2681	3159			
C32	7.307	-0.002	133	71	JP-4 (Tol-C14)	4128068	252
C34	7.599	0.003	311	54	BUNKERC (C10-C38)	14881360	1697 M
Filter Peak	8.347	0.003	266	158			
C36	7.946	0.002	325	199			
C38	8.380	0.000	252	200			
C40	8.933	-0.002	215	132			
o-terph	4.780	0.013	2231500	2341636	JET-A (C10-C18)	10357341	749
Triacon Surr	7.035	-0.003	24	5	JP8 (Tol-C16)	7327543	416

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2341636	90.9	202.0
Triacontane	5	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A015.D

Date : 28-JUL-2010 21:28

Client ID:

Sample Info: DIESEL 500

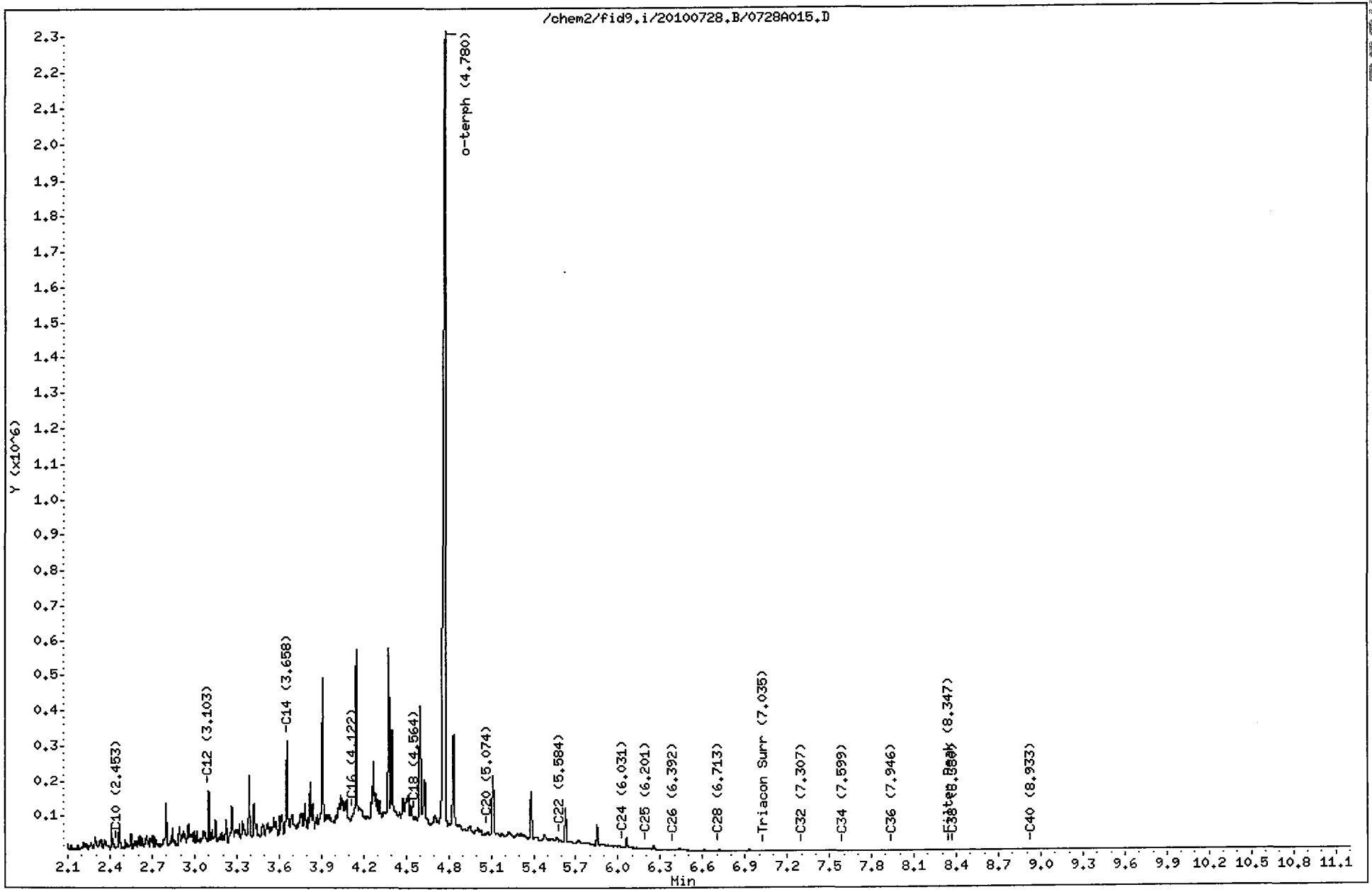
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RGSH-01237



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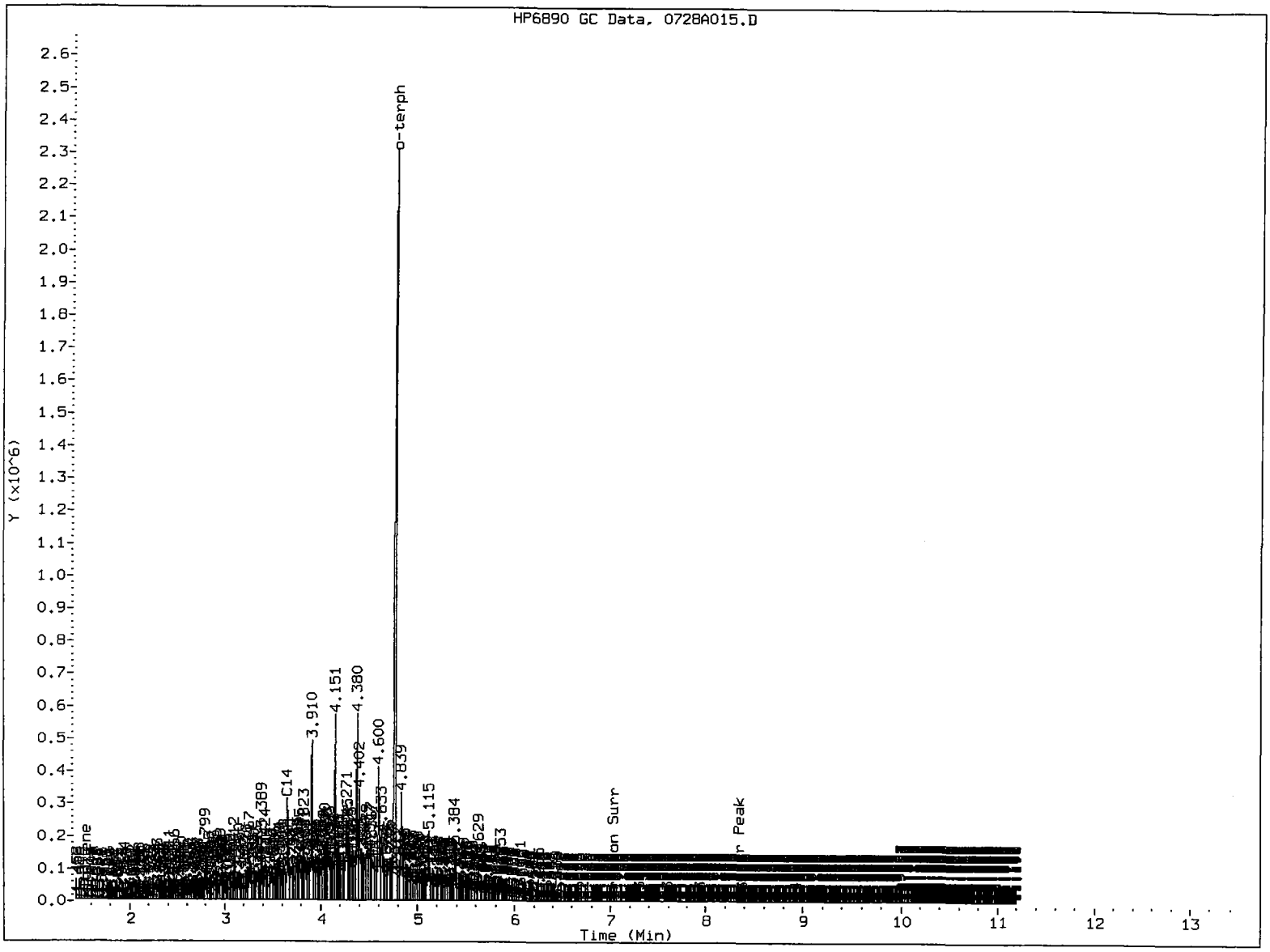


MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/08

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A016.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 1000
Client ID:
Injection: 28-JUL-2010 21:49
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.522	-0.014	10876	15528	GAS (Tol-C12)	3531545	168
C8	1.681	-0.013	9803	11090	DIESEL (C12-C24)	26257622	997
C10	2.453	-0.002	18978	7692	M.OIL (C24-C38)	394336	31
C12	3.105	0.014	327593	189038	AK-102 (C10-C25)	28983377	998 M
C14	3.660	0.019	587586	585940	AK-103 (C25-C36)	290957	58
C16	4.123	-0.005	194975	156606			
C18	4.571	0.002	188327	195568			
C20	5.075	0.003	102065	48020			
C22	5.588	-0.001	60397	13108			
C24	6.012	-0.008	28768	31861			
C25	6.201	-0.011	17610	33377			
C26	6.390	-0.002	7211	10254			
C28	6.716	-0.006	7614	9107			
C32	7.302	-0.007	202	83	JP-4 (Tol-C14)	7631157	465
C34	7.591	-0.005	294	192	BUNKERC (C10-C38)	29281417	3339 M
Filter Peak	8.345	0.002	161	90			
C36	7.947	0.002	235	162			
C38	8.386	0.006	146	81			
C40	8.938	0.002	67	15			
o-terph	4.795	0.028	3156698	4692065	JET-A (C10-C18)	20311515	1470
Triacon Surr	7.032	-0.006	267	242	JP8 (Tol-C16)	14220053	808

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

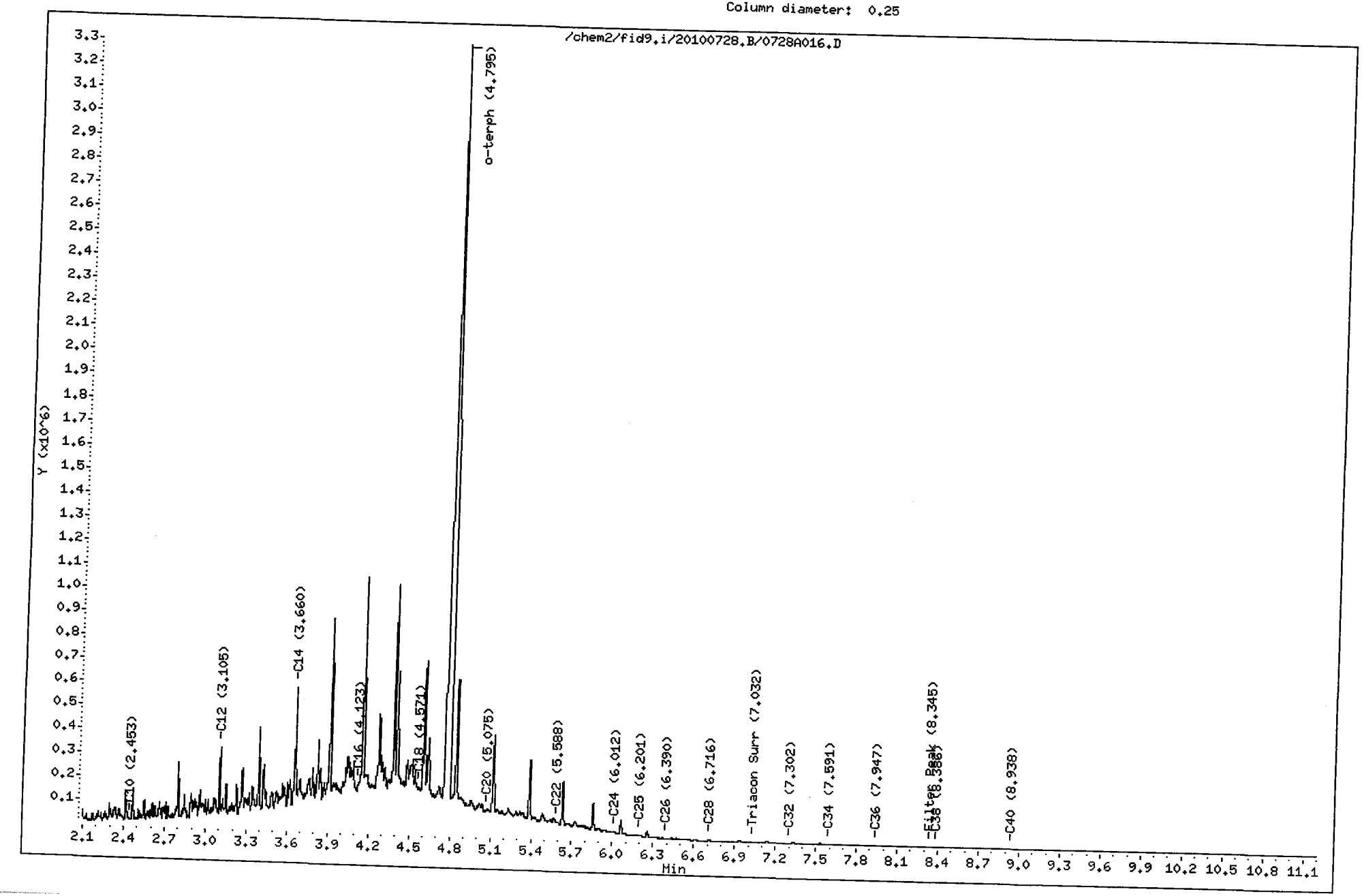
Surrogate	Area	Amount	%Rec
o-Terphenyl	4692065	182.1	404.7
Triacontane	242	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

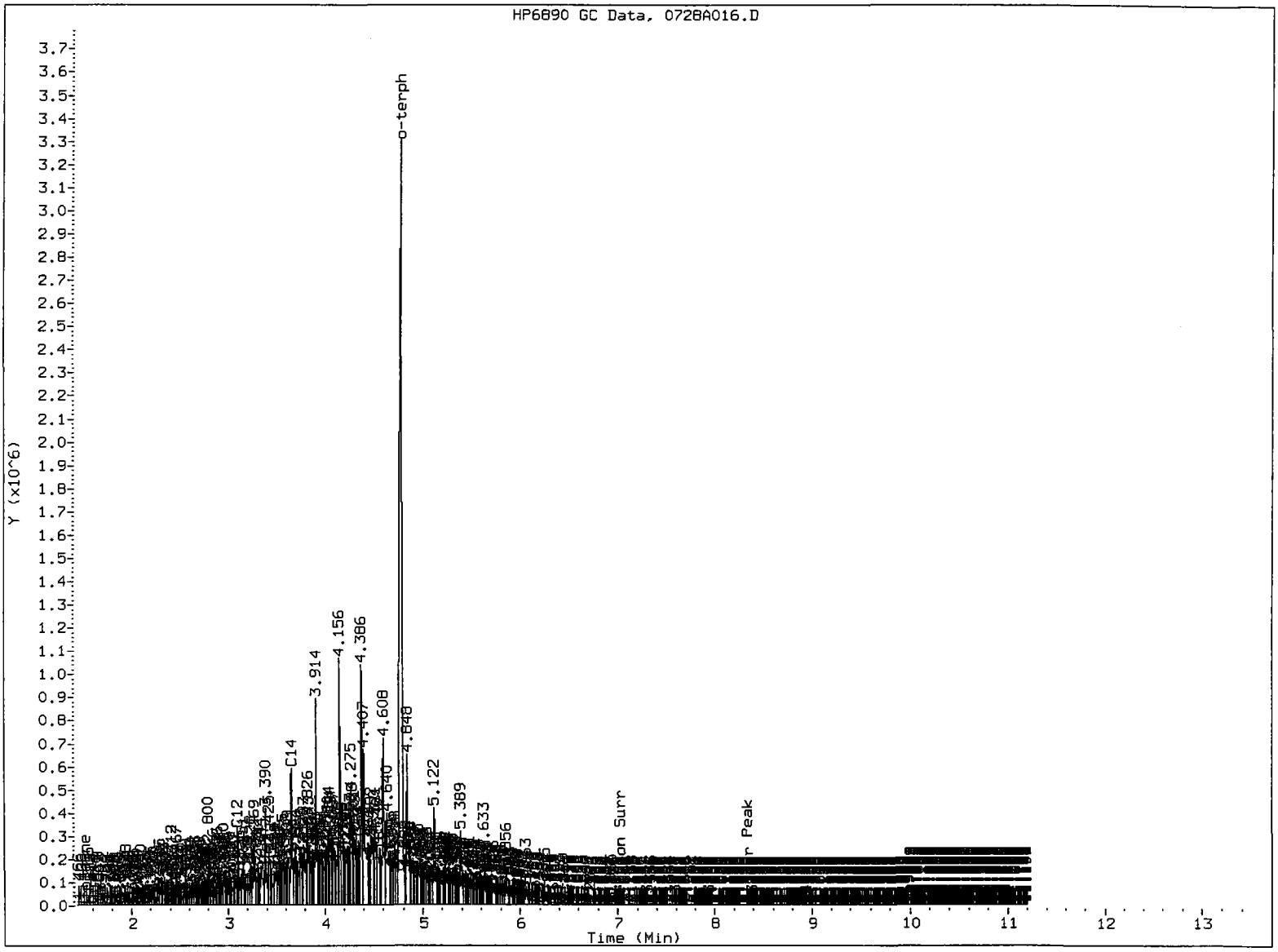
Data File: /chem2/fid9.i/20100728.B/0728A016.D
Date : 28-JUL-2010 21:49
Client ID:
Sample Info: DIESEL 1000

Instrument: fid9.i

Operator: MS
Column phase: RTX-1
Column diameter: 0.25



FID:9A-2C/RTX-1 DIESEL 1000 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/15

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A017.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL 2500
Client ID:
Injection: 28-JUL-2010 22:11
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.527	-0.009	13560	11562	GAS (Tol-C12)	8824002	420
C8	1.696	0.002	11080	4589	DIESEL (C12-C24)	67315582	2557
C10	2.446	-0.009	54486	45945	M.OIL (C24-C38)	1069546	84
C12	3.108	0.017	766741	530976	AK-102 (C10-C25)	74315545	2558 M
C14	3.623	-0.018	472383	536342	AK-103 (C25-C36)	814815	163
C16	4.129	0.001	485188	391044			
C18	4.575	0.006	464619	138288			
C20	5.065	-0.008	324441	293811			
C22	5.599	0.011	159352	44294			
C24	6.014	-0.006	74943	92274			
C25	6.200	-0.013	55517	125809			
C26	6.393	0.001	18866	27921			
C28	6.714	-0.009	18491	25629			
C32	7.300	-0.009	811	206	JP-4 (Tol-C14)	19257288	1174
C34	7.598	0.002	667	236	BUNKERC (C10-C38)	75143374	8568 M
Filter Peak	8.352	0.008	294	163			
C36	7.939	-0.006	456	454			
C38	8.372	-0.008	289	303			
C40	8.930	-0.005	144	37			
o-terph	4.830	0.063	4844941	11602111	JET-A (C10-C18)	49526362	3584
Triacon Surr	7.036	-0.002	1327	1487	JP8 (Tol-C16)	35611639	2024

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	11602111	450.4	1000.8
Triacontane	1487	0.1	0.2

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A017.D

Date : 28-JUL-2010 22:11

Client ID:

Sample Info: DIESEL 2500

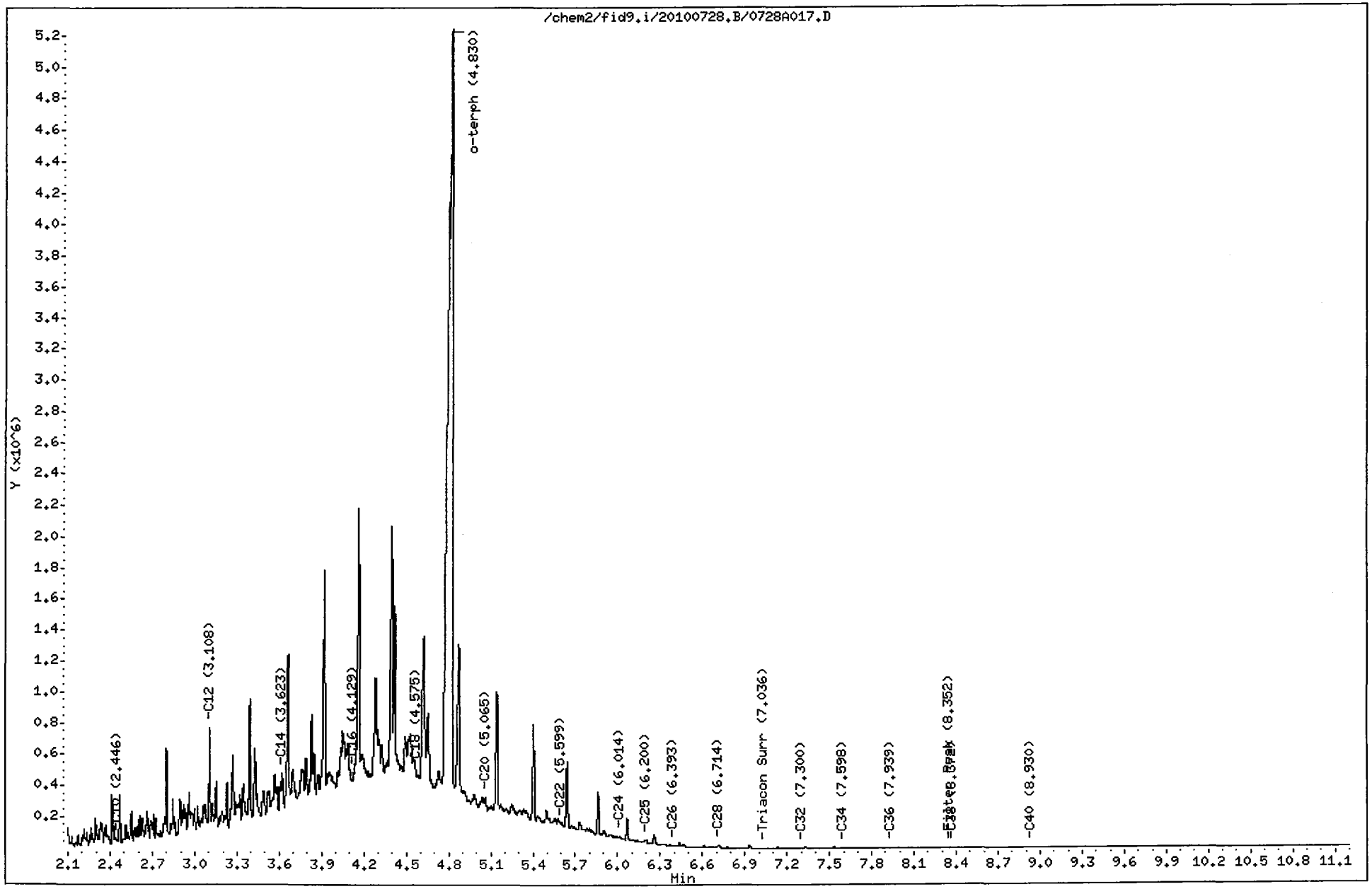
Column phase: RTX-1

Instrument: fid9.i

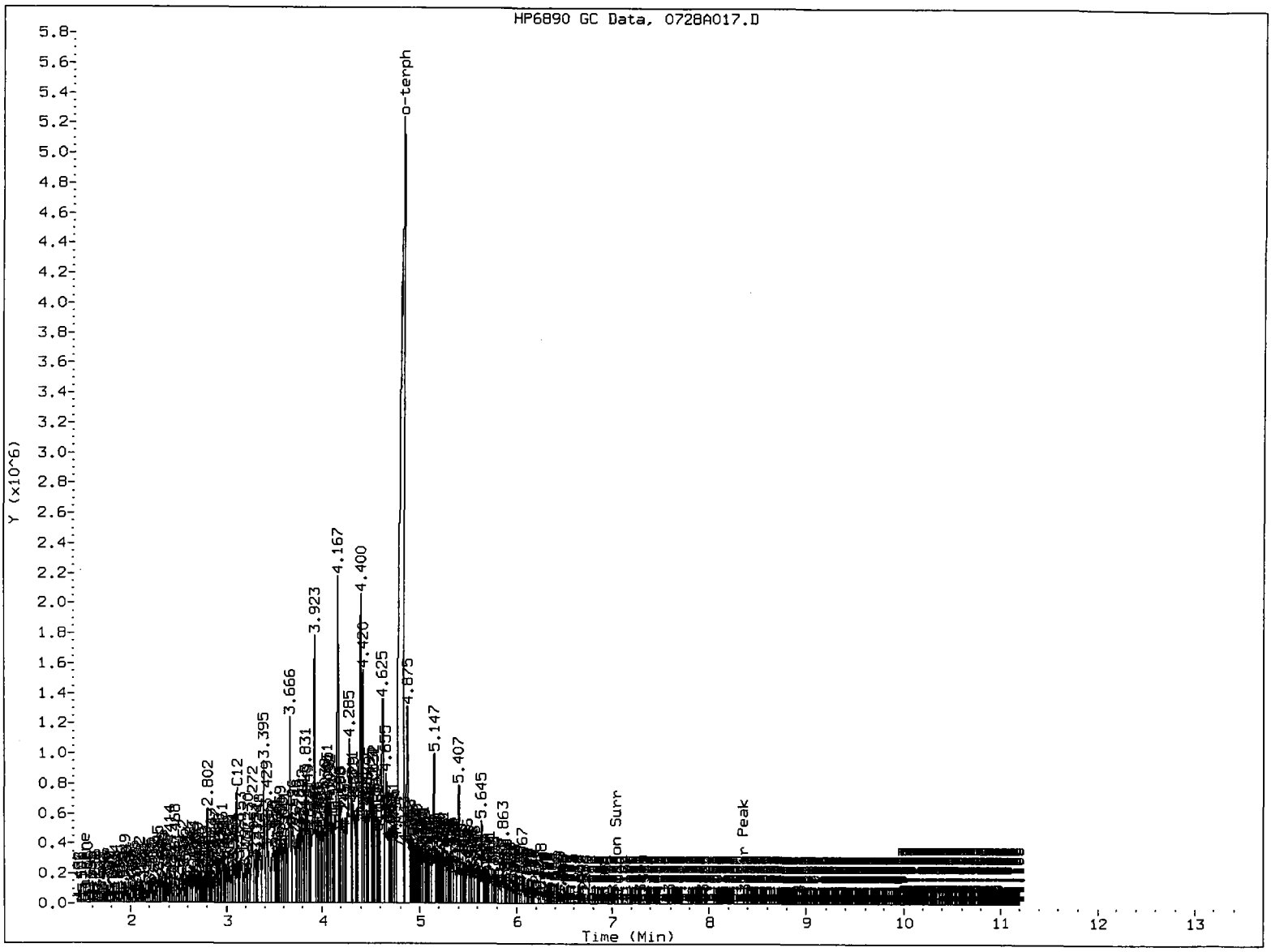
Operator: MS

Column diameter: 0.25

RG9H 01213



FID:9A-2C/RTX-1 DIESEL 2500 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A018.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: DIESEL ICV
Client ID:
Injection: 28-JUL-2010 22:32
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc	
Toluene	1.543	0.007	16954	20227	GAS (Tol-C12)	1113463	53	
C8	1.701	0.007	9541	12338	DIESEL (C12-C24)	7079418	269	
C10	2.452	-0.004	6974	6099	M.OIL (C24-C38)	125009	10	
C12	3.103	0.012	84575	50749	AK-102 (C10-C25)	7832815	270	M
C14	3.659	0.018	161174	159868	AK-103 (C25-C36)	88819	18	
C16	4.125	-0.003	53296	12670				
C18	4.566	-0.003	51560	65584				
C20	5.072	0.000	26951	15118				
C22	5.598	0.009	16514	25434				
C24	6.029	0.009	6302	1731				
C25	6.204	-0.009	6207	13796				
C26	6.389	-0.002	1666	1190				
C28	6.718	-0.005	4177	4021				
C32	7.309	0.000	191	45	JP-4 (Tol-C14)	2210824	135	
C34	7.596	0.000	370	71	BUNKERC (C10-C38)	7932324	904	M
Filter Peak	8.339	-0.004	380	324				
C36	7.940	-0.004	379	284				
C38	8.380	0.000	338	298				
C40	8.940	0.005	284	190				
o-terph	4.774	0.007	1463888	1244864	JET-A (C10-C18)	5534317	400	
Triacon Surr	7.045	0.007	34	10	JP8 (Tol-C16)	4004823	228	

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1244864	48.3	107.4
Triacontane	10	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A018.D

Date : 28-JUL-2010 22:32

Client ID:

Sample Info: DIESEL ICV

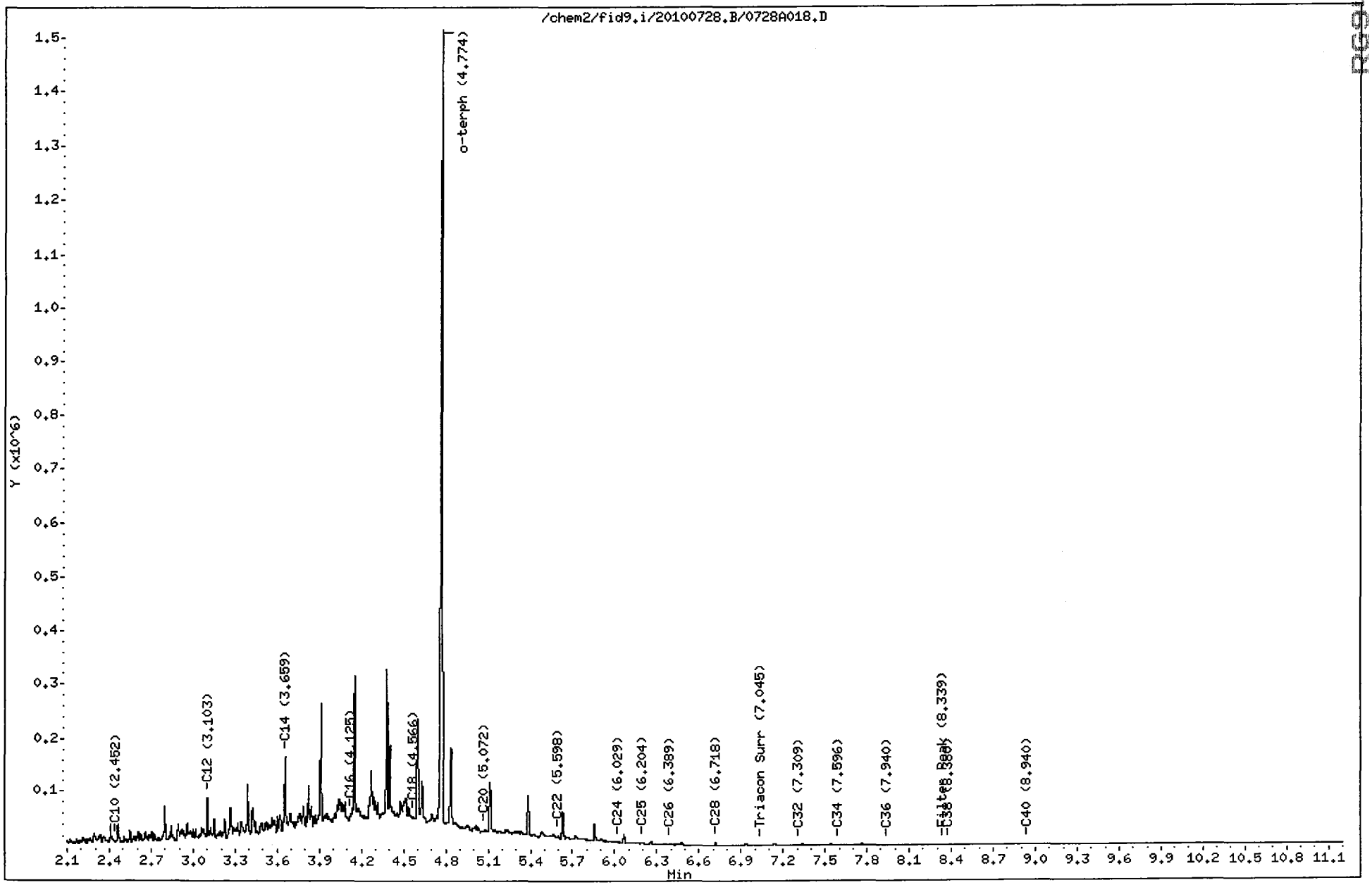
Column phase: RTX-1

Instrument: fid9.i

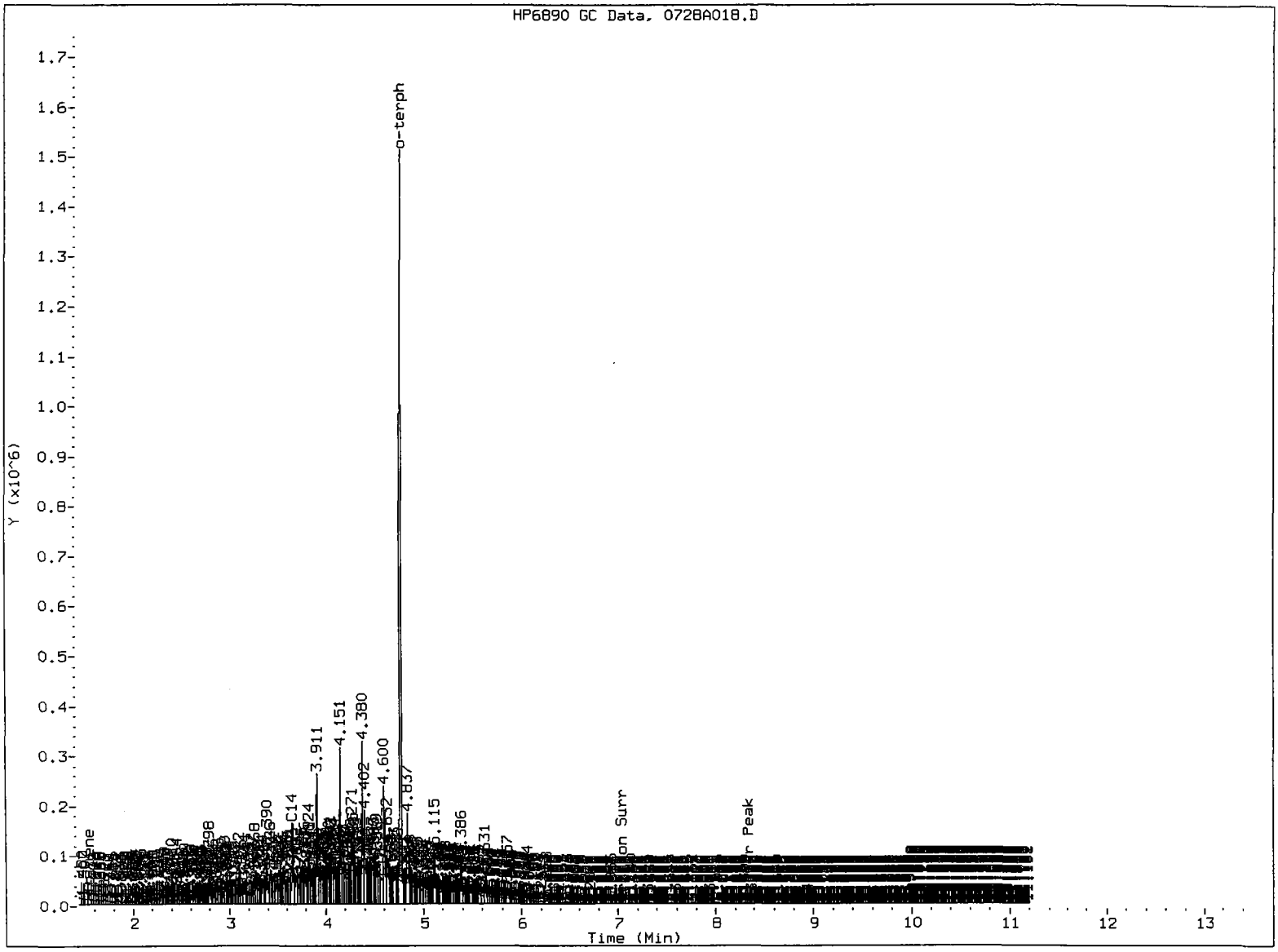
Operator: MS

Column diameter: 0.25

RG91:01216



FID:9A-2C/RTX-1 DIESEL ICV FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/16

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A019.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 100
Client ID:
Injection: 28-JUL-2010 22:53
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	7458	18695	GAS (Tol-C12)	141901	7
C8	1.726	0.033	5158	6296	DIESEL (C12-C24)	170722	6
C10	2.453	-0.002	2104	2277	M.OIL (C24-C38)	1466906	115
C12	3.087	-0.004	132	32	AK-102 (C10-C25)	227313	8
C14	3.638	-0.003	73	40	AK-103 (C25-C36)	1259769	251 M
C16	4.130	0.002	69	41			
C18	4.564	-0.005	811	866			
C20	5.075	0.003	500	282			
C22	5.588	-0.001	2108	500			
C24	6.024	0.004	5281	1867			
C25	6.222	0.010	6965	4086			
C26	6.393	0.001	8433	4859			
C28	6.715	-0.008	26196	37657			
C32	7.310	0.001	14515	3993	JP-4 (Tol-C14)	147735	9
C34	7.596	0.000	11767	4821	BUNKERC (C10-C38)	1662282	190 M
Filter Peak	8.344	0.001	6091	3946			
C36	7.940	-0.005	8533	7979			
C38	8.385	0.005	5855	2782			
C40	8.936	0.000	3917	1842			
o-terph	4.766	-0.001	1479	1425	JET-A (C10-C18)	40423	3
Triacon Surr	7.080	0.042	256627	183551	JP8 (Tol-C16)	151586	9

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1425	0.1	0.1
Triacontane	183551	9.3	20.6

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A019.D

Date : 28-JUL-2010 22:53

Client ID:

Sample Info: MOIL 100

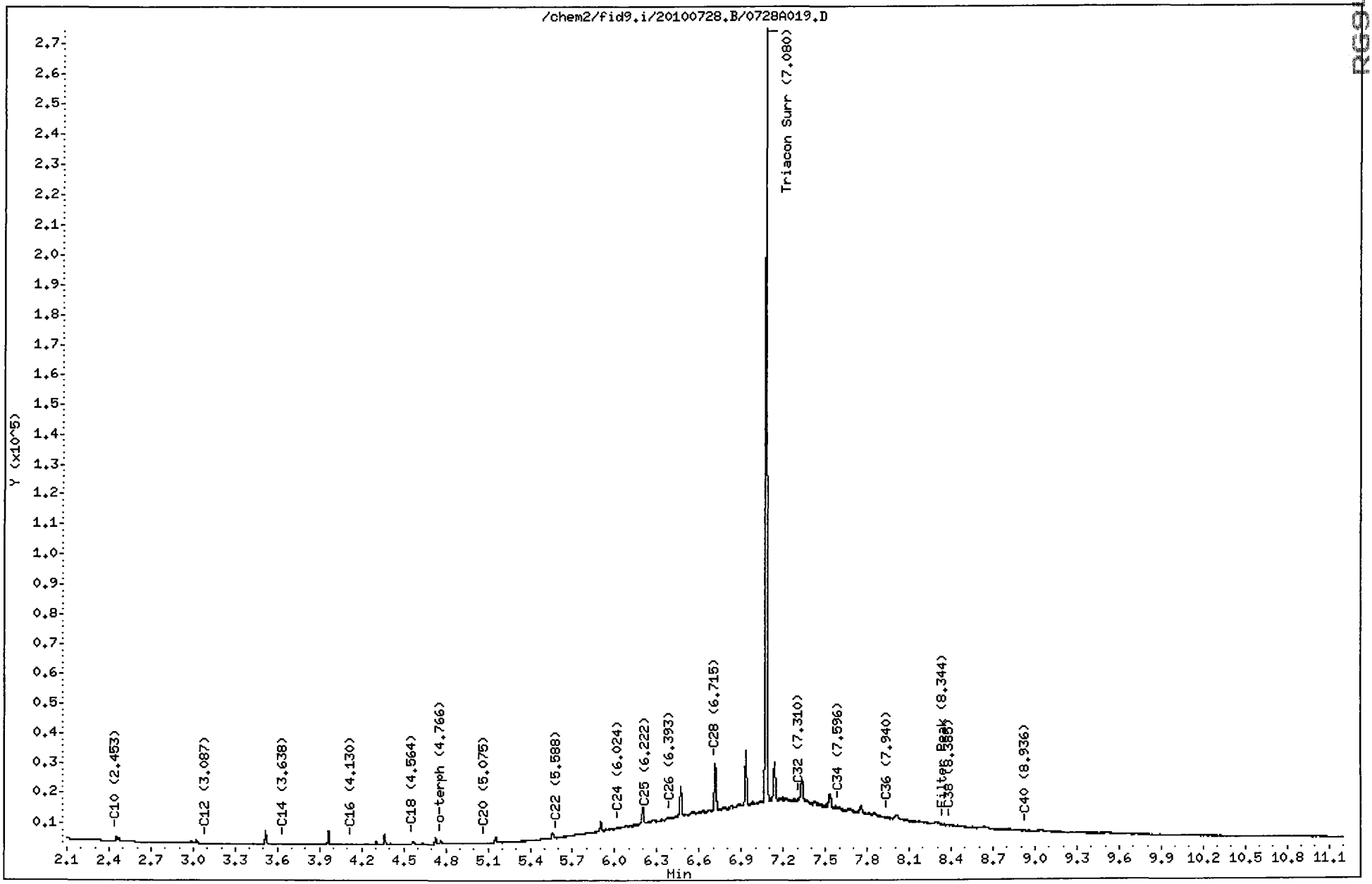
Column phase: RTX-1

Instrument: fid9.i

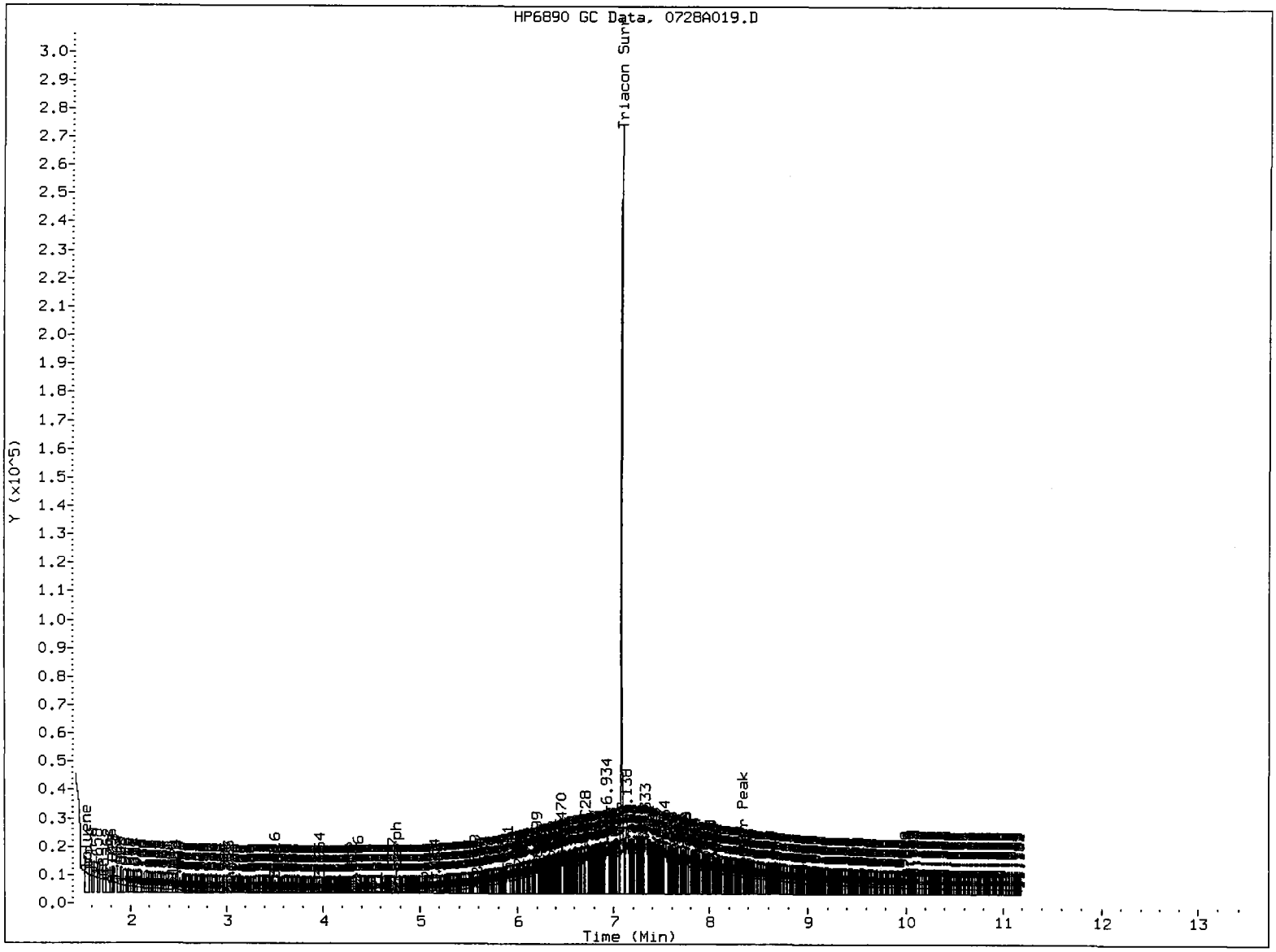
Operator: MS

Column diameter: 0.25

RSG1-01219



FID:9A-2C/RTX-1 MOIL 100 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A020.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 250
Client ID:
Injection: 28-JUL-2010 23:15
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	9497	26573	GAS (Tol-C12)	196853	9
C8	1.701	0.007	5948	3882	DIESEL (C12-C24)	365810	14
C10	2.453	-0.002	2442	3279	M.OIL (C24-C38)	3266021	255
C12	3.084	-0.007	295	172	AK-102 (C10-C25)	480434	17
C14	3.641	0.000	143	28	AK-103 (C25-C36)	2796307	558 M
C16	4.130	0.002	41	6			
C18	4.564	-0.005	1875	1532			
C20	5.076	0.003	1034	1260			
C22	5.593	0.005	5116	2268			
C24	6.019	-0.001	12501	3919			
C25	6.217	0.004	16132	5120			
C26	6.394	0.003	20541	11264			
C28	6.719	-0.004	29297	45978			
C32	7.310	0.001	33294	13189	JP-4 (Tol-C14)	205495	13
C34	7.596	0.000	26975	12175	BUNKERC (C10-C38)	3666421	418 M
Filter Peak	8.341	-0.002	13586	4242			
C36	7.941	-0.004	19049	9333			
C38	8.372	-0.008	13101	10702			
C40	8.931	-0.004	8356	5723			
o-terph	4.766	-0.001	970	1169	JET-A (C10-C18)	53412	4
Triacon Surr	7.087	0.049	578614	453460	JP8 (Tol-C16)	208886	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1169	0.0	0.1
Triacontane	453460	22.9	50.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A020.D

Date : 28-JUL-2010 23:15

Client ID:

Sample Info: MOIL 250

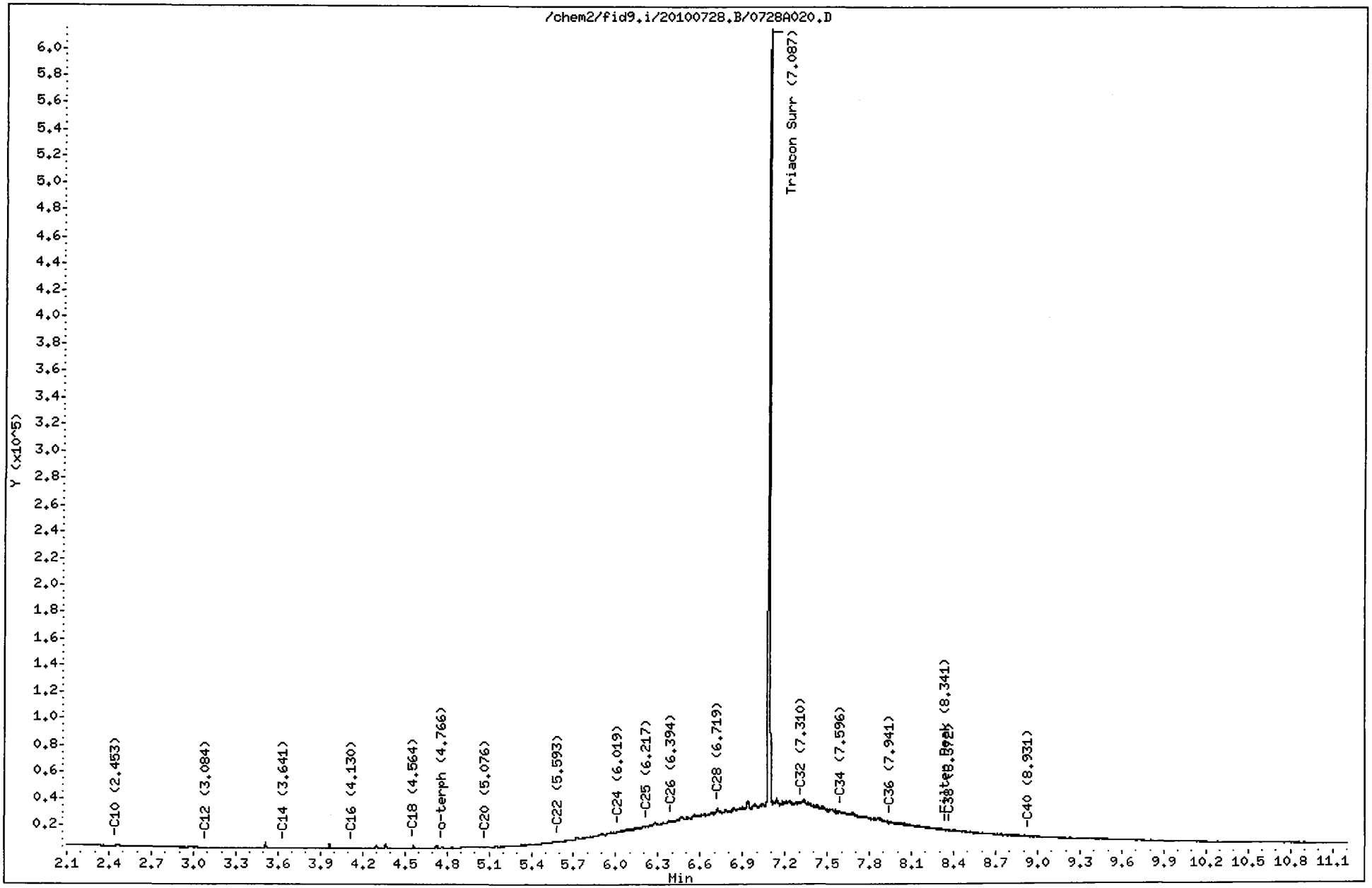
Column phase: RTX-1

Instrument: fid9.i

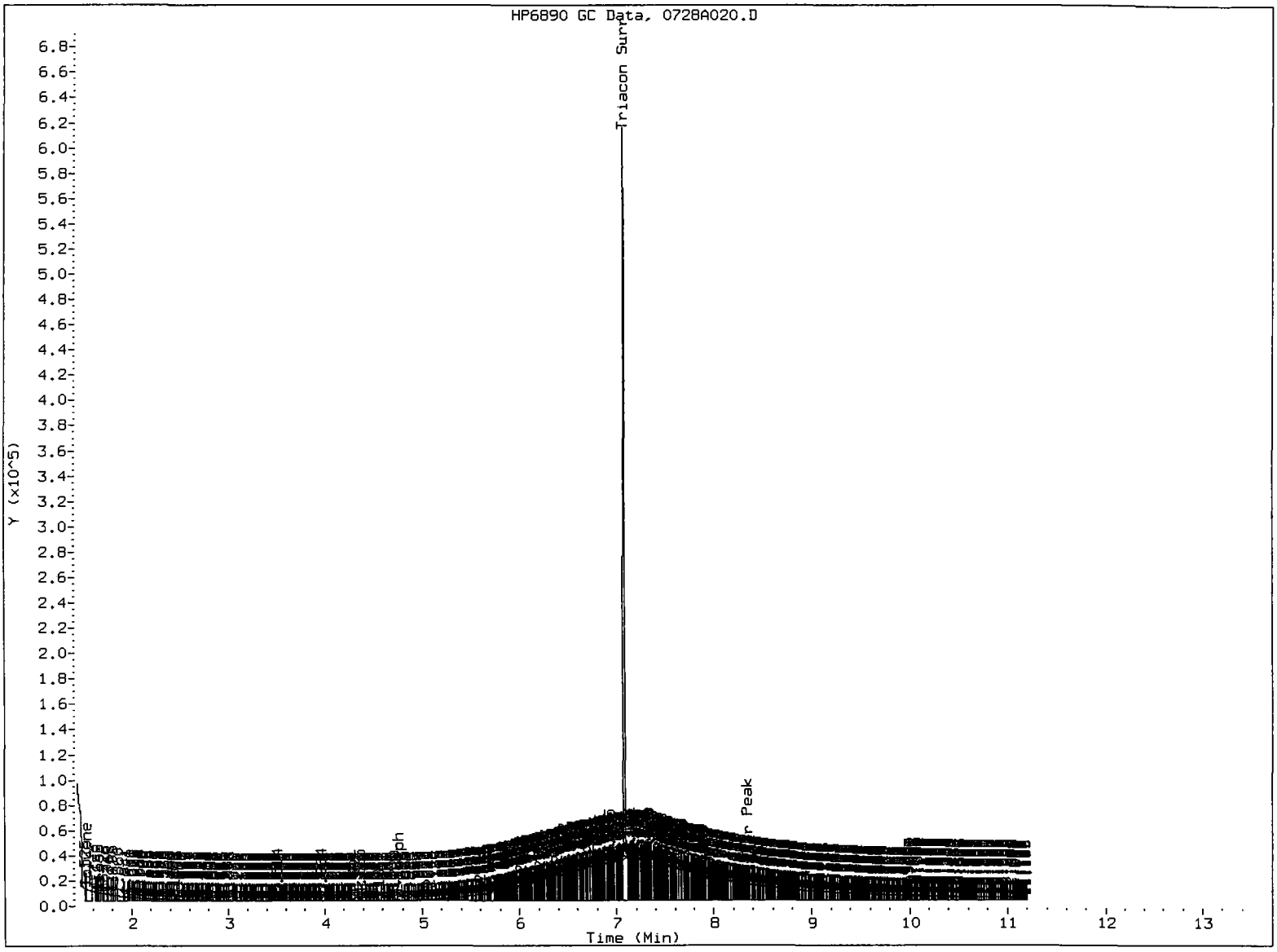
Operator: MS

Column diameter: 0.25

RG9U-01252



FID:9A-2C/RTX-1 MOIL 250 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A021.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 500
Client ID:
Injection: 28-JUL-2010 23:36
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	9179	20369	GAS (Tol-C12)	216239	10
C8	1.728	0.034	6026	8955	DIESEL (C12-C24)	681352	26
C10	2.454	-0.002	2354	2271	M.OIL (C24-C38)	6262414	490
C12	3.094	0.003	289	44	AK-102 (C10-C25)	866175	30
C14	3.642	0.001	195	126	AK-103 (C25-C36)	5350968	1068 M
C16	4.125	-0.003	40	9			
C18	4.561	-0.008	3657	2936			
C20	5.072	-0.001	2047	2188			
C22	5.593	0.004	10080	6940			
C24	6.019	-0.001	23765	7965			
C25	6.211	-0.002	31744	9374			
C26	6.394	0.003	39169	13151			
C28	6.721	-0.002	55036	30221			
C32	7.312	0.003	65826	24703	JP-4 (Tol-C14)	225770	14
C34	7.600	0.003	52438	20690	BUNKERC (C10-C38)	6976056	795 M
Filter Peak	8.350	0.007	26035	6689			
C36	7.944	-0.001	38444	12762			
C38	8.382	0.002	26485	18398			
C40	8.934	-0.002	15558	5694			
o-terph	4.764	-0.003	1139	1159	JET-A (C10-C18)	56856	4
Triacon Surr	7.094	0.056	990900	889470	JP8 (Tol-C16)	229628	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159	0.0	0.1
Triacontane	889470	44.8	99.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A021.D

Date : 28-JUL-2010 23:36

Client ID:

Sample Info: MOIL 500

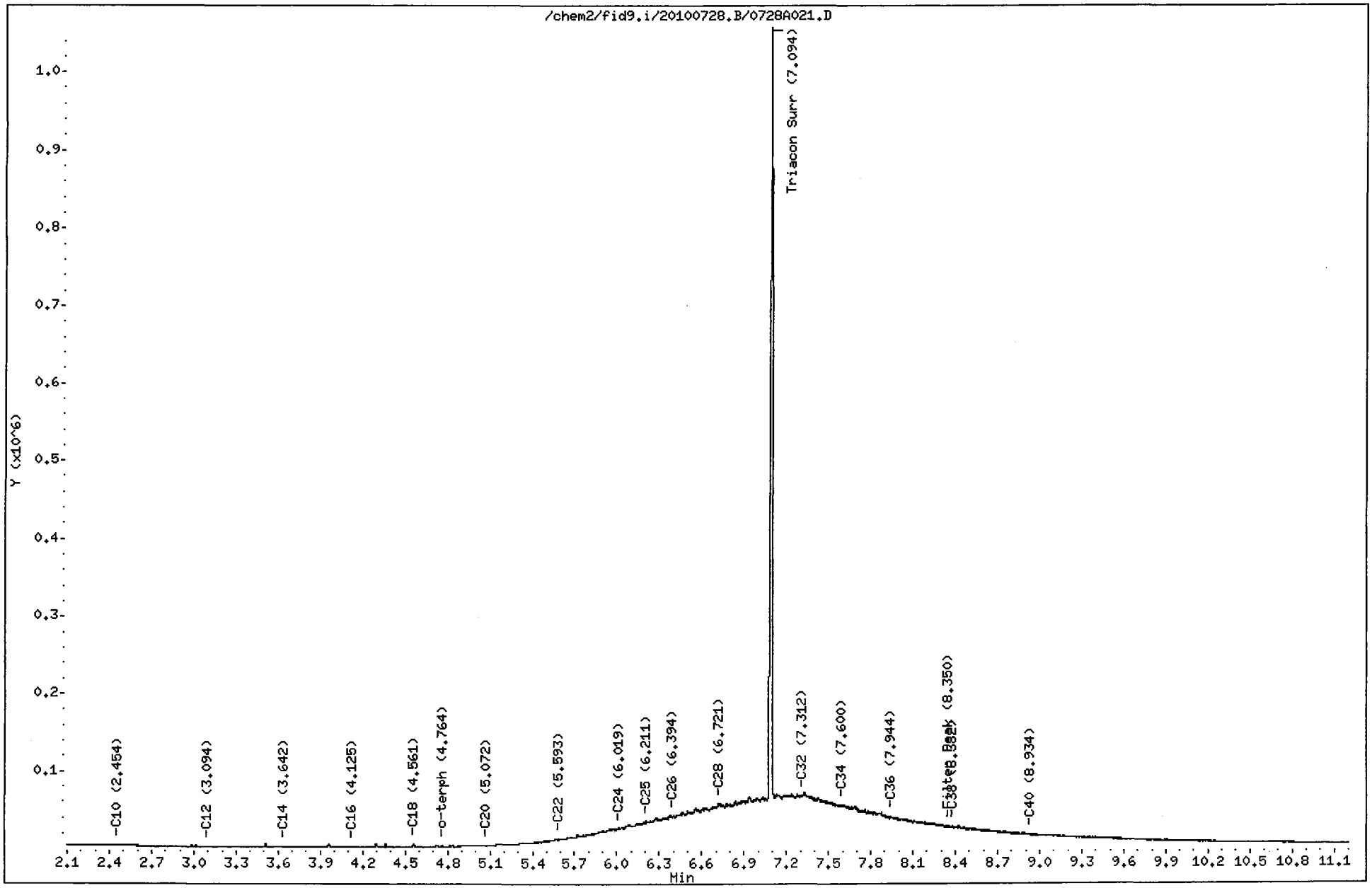
Column phase: RTX-1

Instrument: fid9.i

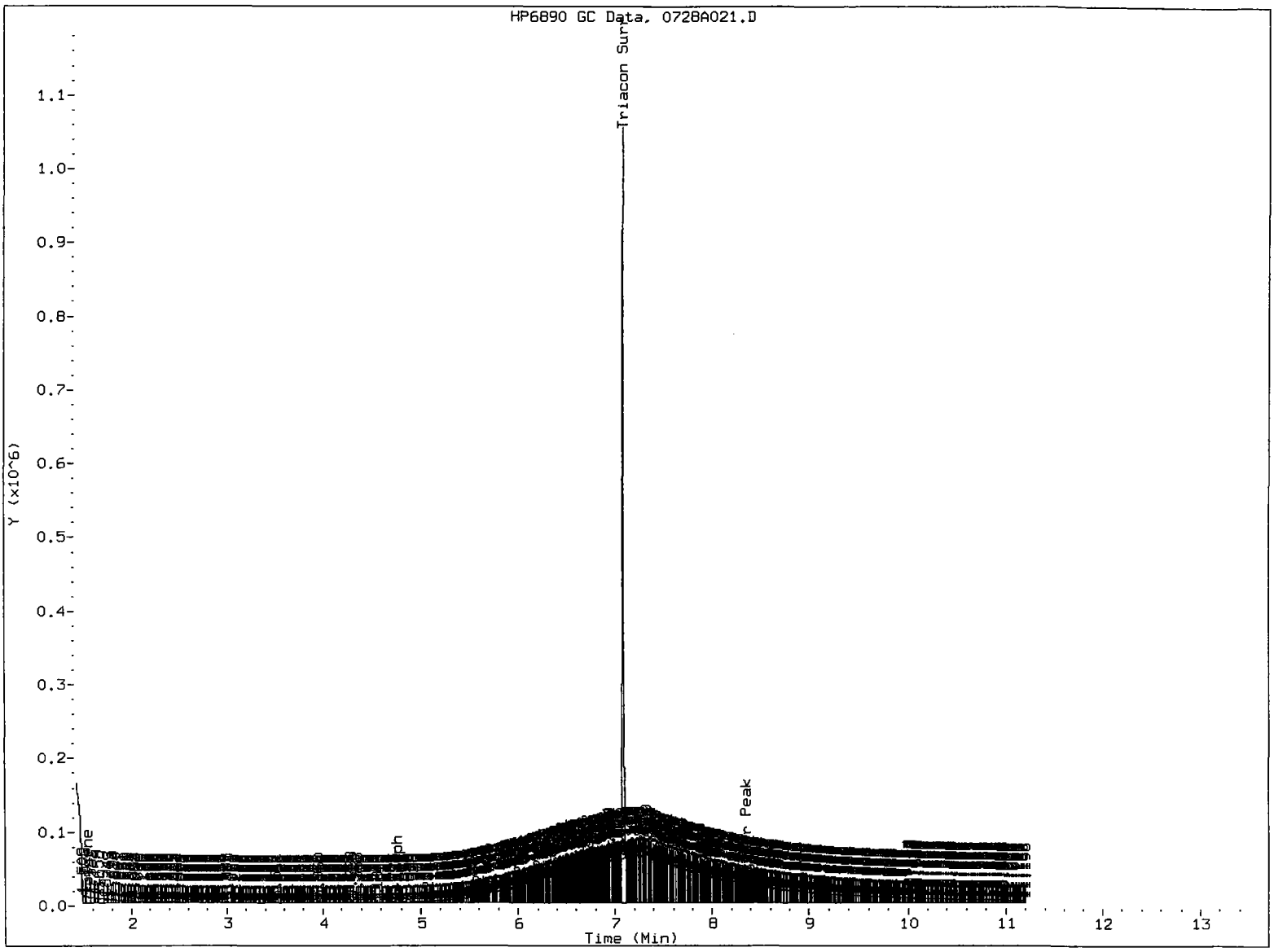
Operator: MS

Column diameter: 0.25

RG94-01255



FID:9A-2C/RTX-1 MOIL 500 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A022.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 1000
Client ID:
Injection: 28-JUL-2010 23:57
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.538	0.002	10649	63178	GAS (Tol-C12)	218627	10
C8	1.703	0.010	6083	4895	DIESEL (C12-C24)	1375330	52
C10	2.453	-0.003	2350	1902	M.OIL (C24-C38)	12575741	983
C12	3.089	-0.002	381	214	AK-102 (C10-C25)	1720432	59
C14	3.639	-0.002	299	246	AK-103 (C25-C36)	10794434	2155 M
C16	4.129	0.000	79	16			
C18	4.560	-0.009	7645	6024			
C20	5.072	0.000	4064	7040			
C22	5.597	0.008	20853	24416			
C24	6.018	-0.002	49376	52041			
C25	6.213	0.001	63610	16233			
C26	6.389	-0.002	79064	34283			
C28	6.720	-0.003	107910	42122			
C32	7.310	0.001	130942	41405	JP-4 (Tol-C14)	231895	14
C34	7.599	0.002	108281	136091	BUNKERC (C10-C38)	13985045	1595 M
Filter Peak	8.345	0.002	52029	25346			
C36	7.948	0.003	74855	16070			
C38	8.376	-0.004	51433	44591			
C40	8.939	0.003	30398	16046			
o-terph	4.764	-0.003	1794	1847	JET-A (C10-C18)	72341	5
Triacon Surr	7.105	0.067	1701872	1806179	JP8 (Tol-C16)	236928	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1847	0.1	0.2
Triacontane	1806179	91.1	202.4

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

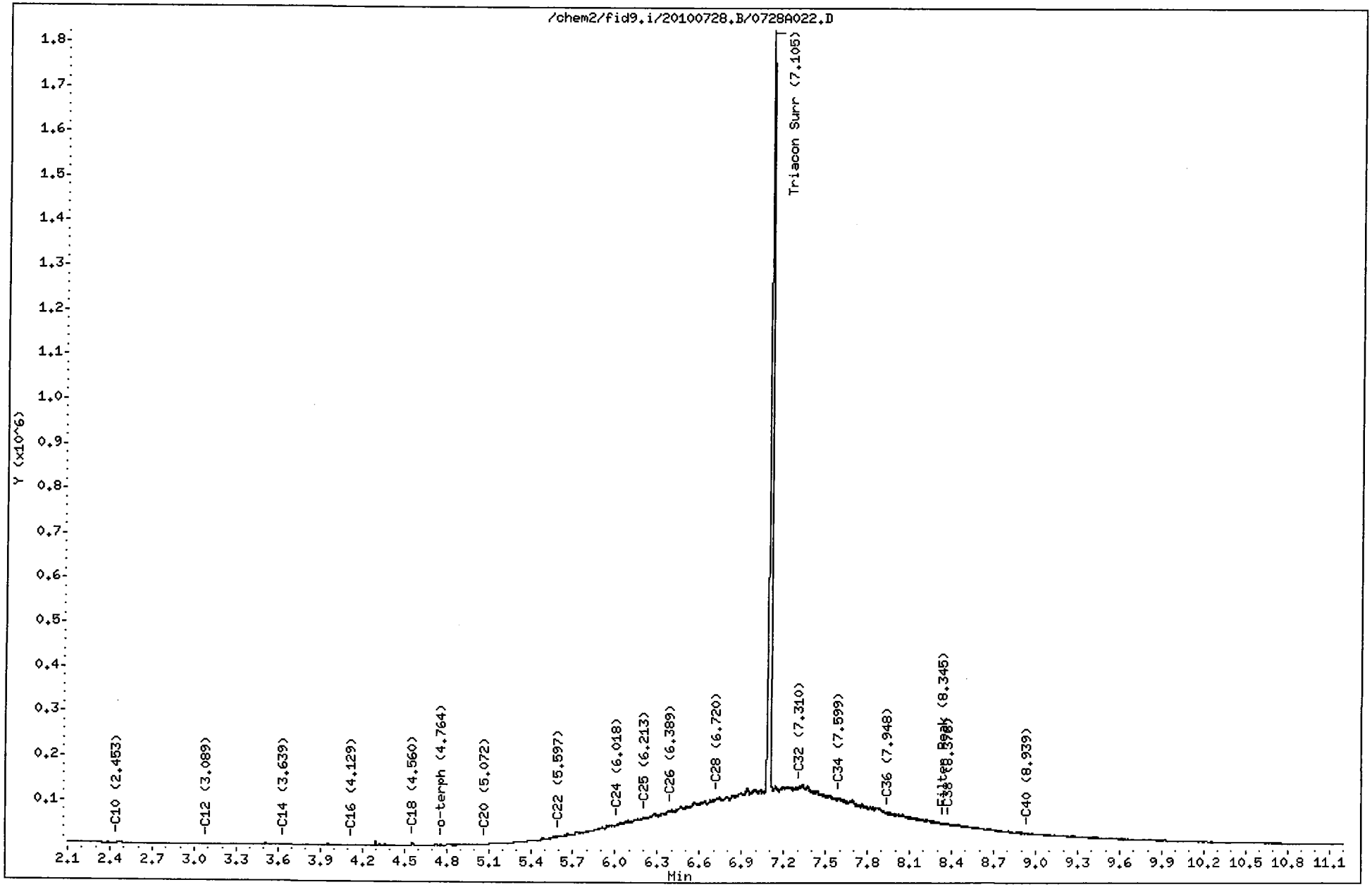
Data File: /chem2/fid9.i/20100728.B/0728A022.D
Date : 28-JUL-2010 23:57
Client ID:
Sample Info: MOIL 1000

Instrument: fid9.i

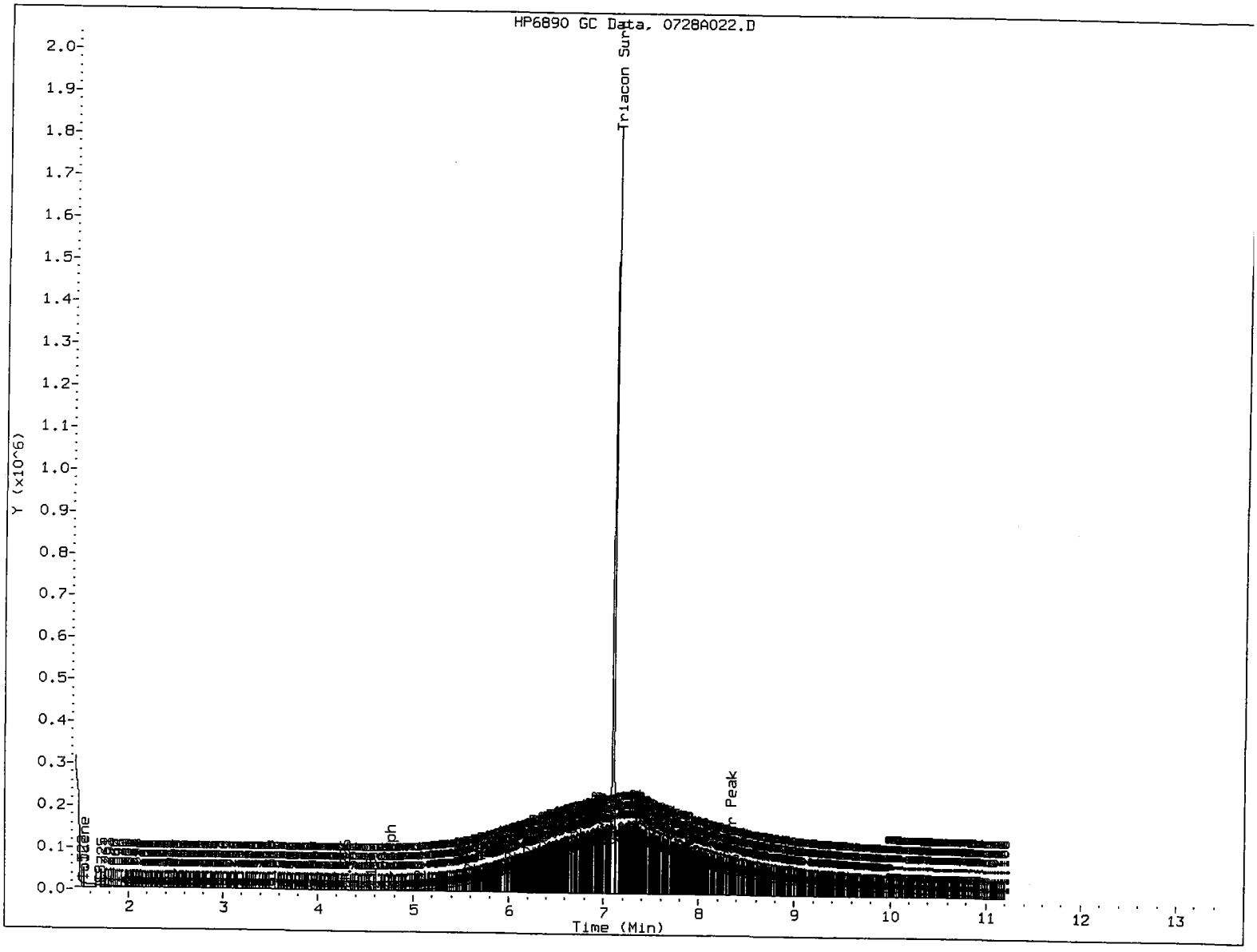
Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RG94-01259



FID:9A-2C/RTX-1 MOIL 1000 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 9/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A023.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 2500
Client ID:
Injection: 29-JUL-2010 00:18
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	185483	9
C8	1.718	0.025	7199	4779	DIESEL (C12-C24)	3353157	127
C10	2.459	0.004	3767	6961	M.OIL (C24-C38)	30008483	2347
C12	3.085	-0.006	494	385	AK-102 (C10-C25)	4193453	144
C14	3.640	-0.001	498	323	AK-103 (C25-C36)	25718318	5134 M
C16	4.130	0.001	204	91			
C18	4.559	-0.010	20942	16266			
C20	5.069	-0.004	9741	14269			
C22	5.589	0.001	46953	16444			
C24	6.020	0.000	116155	30105			
C25	6.215	0.003	149541	35623			
C26	6.388	-0.003	192672	83538			
C28	6.725	0.002	249614	49500			
C32	7.308	-0.001	301815	83744	JP-4 (Tol-C14)	202516	12
C34	7.594	-0.002	255953	217957	BUNKERC (C10-C38)	33397372	3808 M
Filter Peak	8.350	0.006	124584	111418			
C36	7.944	-0.001	179229	56451			
C38	8.379	-0.001	117276	59781			
C40	8.938	0.003	70596	37072			
o-terph	4.762	-0.005	3843	4178	JET-A (C10-C18)	110588	8
Triacon Surr	7.129	0.091	2546702	4343398	JP8 (Tol-C16)	210004	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4178	0.2	0.4
Triacontane	4343398	219.0	486.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

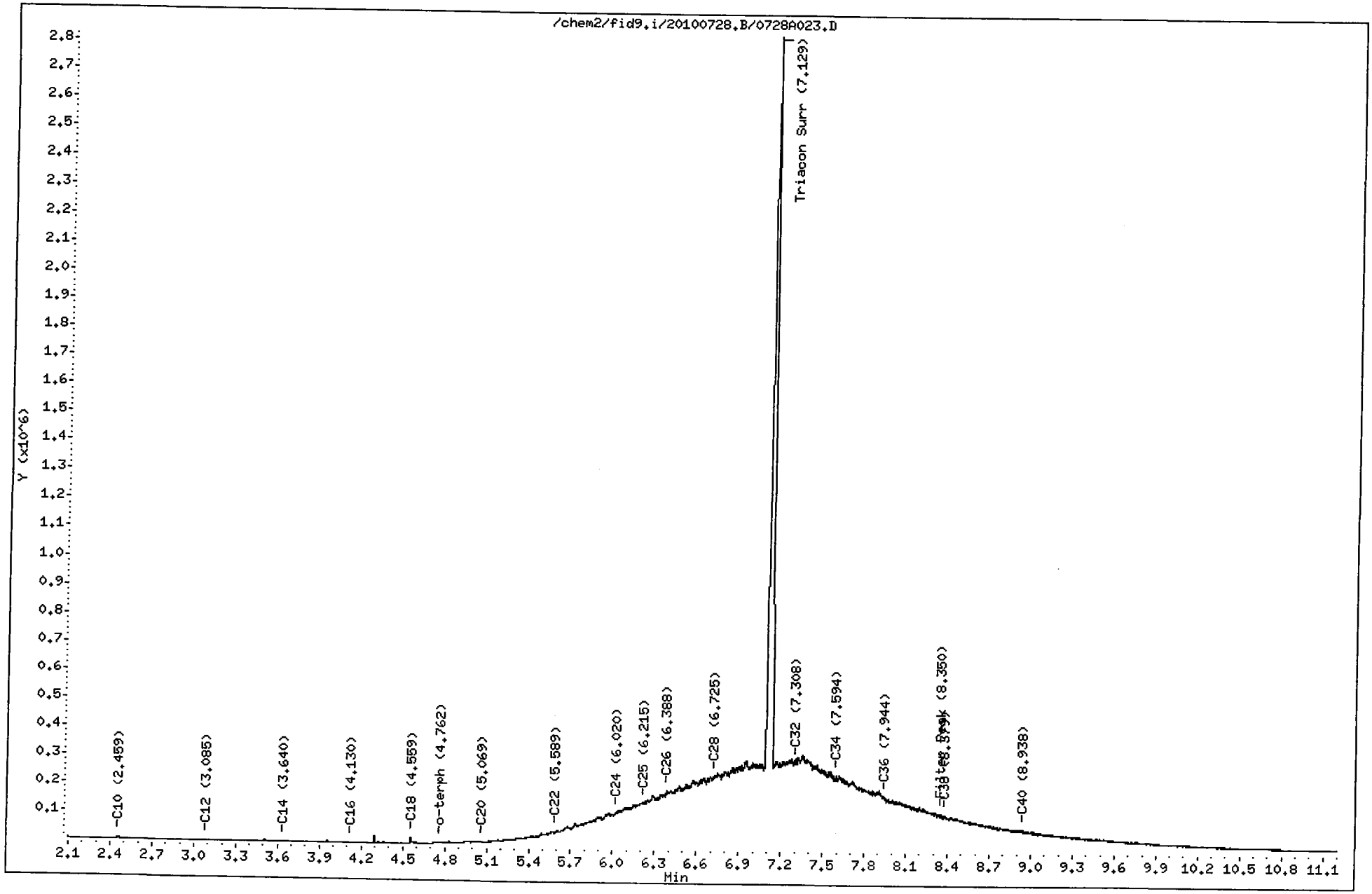
Data File: /chem2/fid9.i/20100728.B/0728A023.D
Date : 29-JUL-2010 00:18
Client ID:
Sample Info: MOIL 2500

Column phase: RTX-1

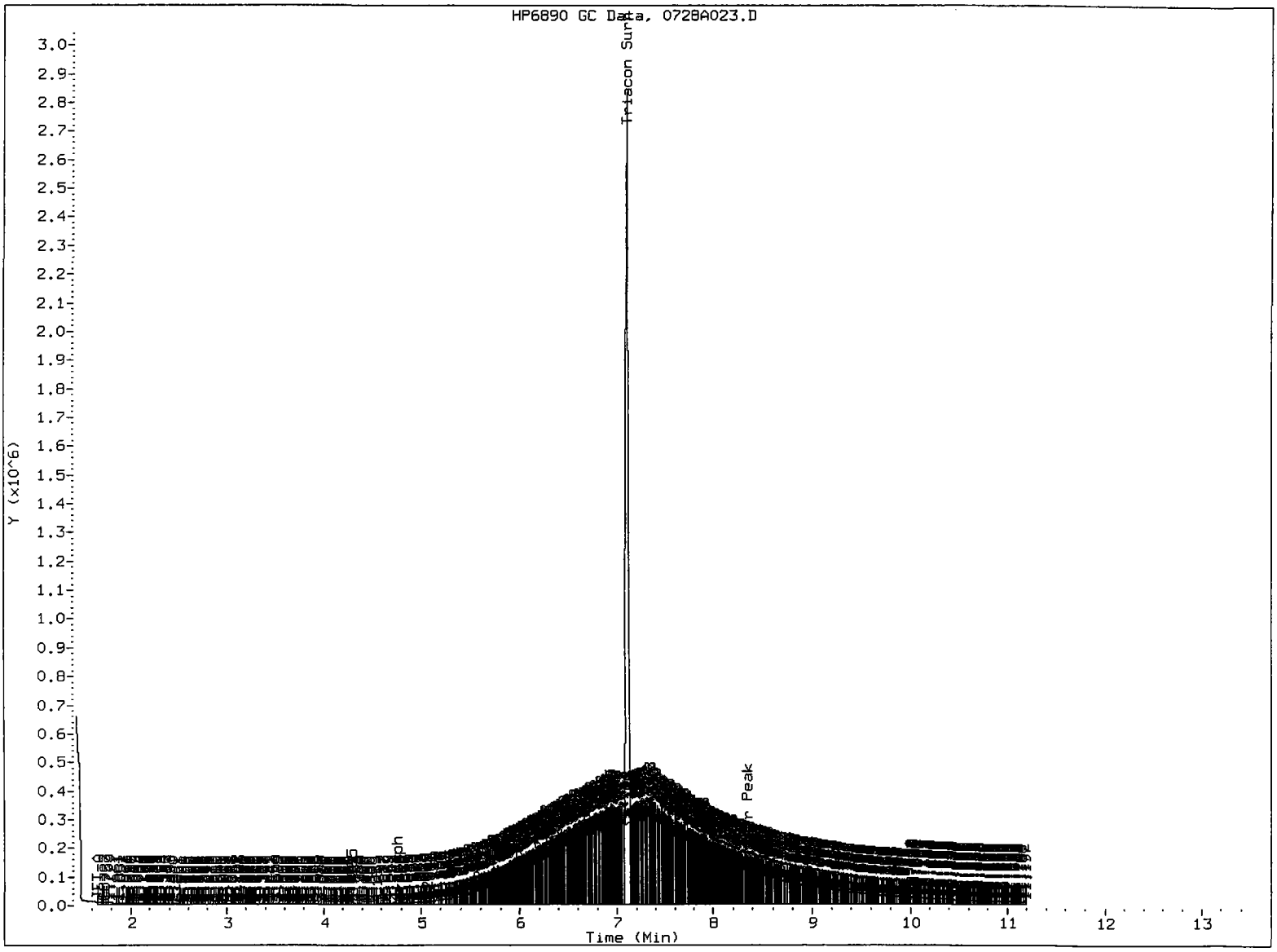
Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RC94-01261



FID:9A-2C/RTX-1 MOIL 2500 FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 9/30/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A024.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL 5000
Client ID:
Injection: 29-JUL-2010 00:40
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.505	-0.031	22596	103344	GAS (Tol-C12)	263209	13
C8	1.724	0.030	8164	11347	DIESEL (C12-C24)	6666776	253
C10	2.462	0.006	6166	7110	M.OIL (C24-C38)	59430781	4648
C12	3.104	0.013	3368	1784	AK-102 (C10-C25)	8147281	280
C14	3.646	0.005	615	350	AK-103 (C25-C36)	51523751	10286 M
C16	4.129	0.001	608	343			
C18	4.560	-0.009	37045	30543			
C20	5.070	-0.002	19428	26259			
C22	5.582	-0.007	96098	68803			
C24	6.023	0.003	234560	106000			
C25	6.207	-0.006	297700	255615			
C26	6.393	0.001	373459	230456			
C28	6.726	0.003	495735	196084			
C32	7.305	-0.004	602415	260738	JP-4 (Tol-C14)	285229	17
C34	7.597	0.000	510745	472002	BUNKERC (C10-C38)	66134433	7540 M
Filter Peak	8.346	0.002	226260	178664			
C36	7.943	-0.001	358012	278298			
C38	8.379	-0.001	210178	74132			
C40	8.935	0.000	96401	47669			
o-terph	4.761	-0.006	24528	21927	JET-A (C10-C18)	180059	13
Triacon Surr	7.160	0.122	3196100	8687632	JP8 (Tol-C16)	304722	17

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	21927	0.9	1.9
Triacontane	8687632	438.1	973.5

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A024.D

Date : 29-JUL-2010 00:40

Client ID:

Sample Info: MOIL 5000

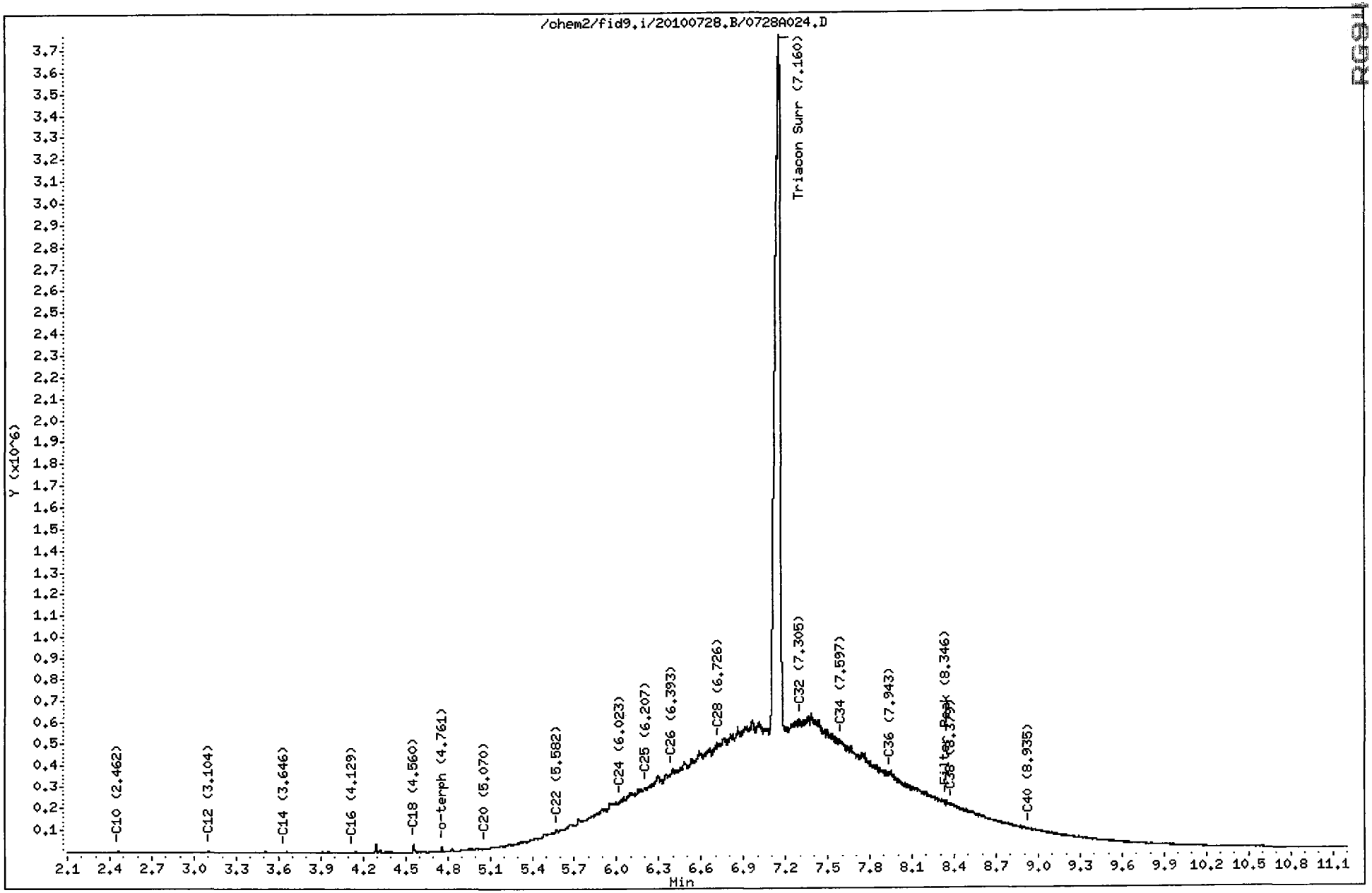
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

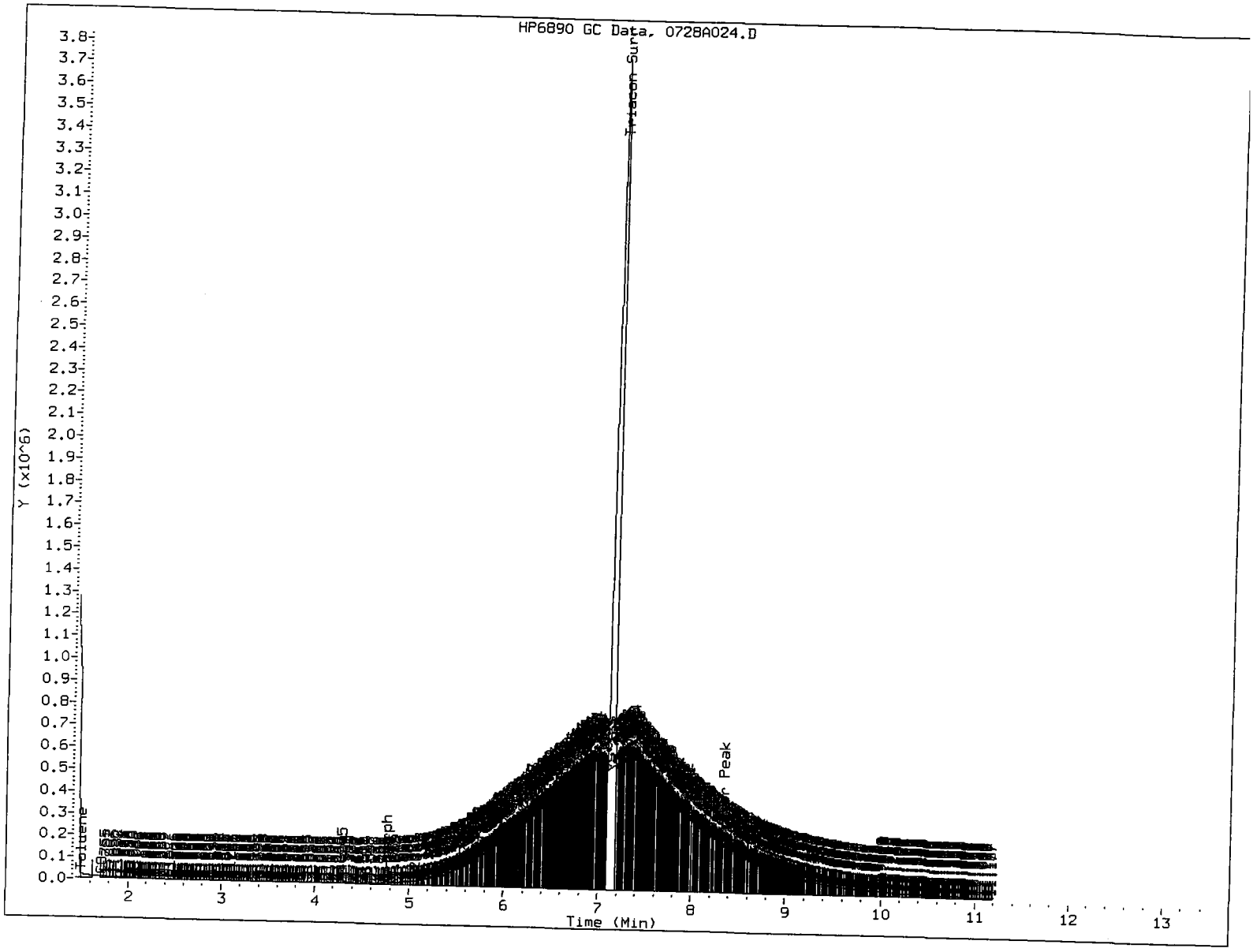
Column diameter: 0.25

RSGL 01261



FID:9A-2C/RTX-1 MOIL 5000

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/30/12

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728A025.D
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 07/30/2010

ARI ID: MOIL ICV
Client ID:
Injection: 29-JUL-2010 01:01
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.517	-0.019	9568	56363	GAS (Tol-C12)	190702	9
C8	1.697	0.003	5379	6116	DIESEL (C12-C24)	677543	26
C10	2.453	-0.003	2206	3494	M.OIL (C24-C38)	5773753	452
C12	3.084	-0.007	333	287	AK-102 (C10-C25)	857527	30
C14	3.646	0.005	183	82	AK-103 (C25-C36)	4998197	998 M
C16	4.126	-0.002	42	25			
C18	4.562	-0.007	4629	3455			
C20	5.075	0.002	1877	2081			
C22	5.592	0.004	9446	5227			
C24	6.020	0.000	22370	8391			
C25	6.201	-0.012	39707	65163			
C26	6.392	0.000	36721	13853			
C28	6.716	-0.007	75296	117760			
C32	7.311	0.002	59183	16220	JP-4 (Tol-C14)	199835	12
C34	7.599	0.003	44801	35701	BUNKERC (C10-C38)	6481420	739 M
Filter Peak	8.343	0.000	21659	10132			
C36	7.947	0.002	30815	9065			
C38	8.381	0.000	20938	14432			
C40	8.931	-0.004	13390	8876			
o-terph	4.764	-0.003	832	933	JET-A (C10-C18)	55969	4
Triacon Surr	7.090	0.052	914145	806969	JP8 (Tol-C16)	204147	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	933	0.0	0.1
Triacontane	806969	40.7	90.4

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728A025.D

Date : 29-JUL-2010 01:01

Client ID:

Sample Info: MOIL ICV

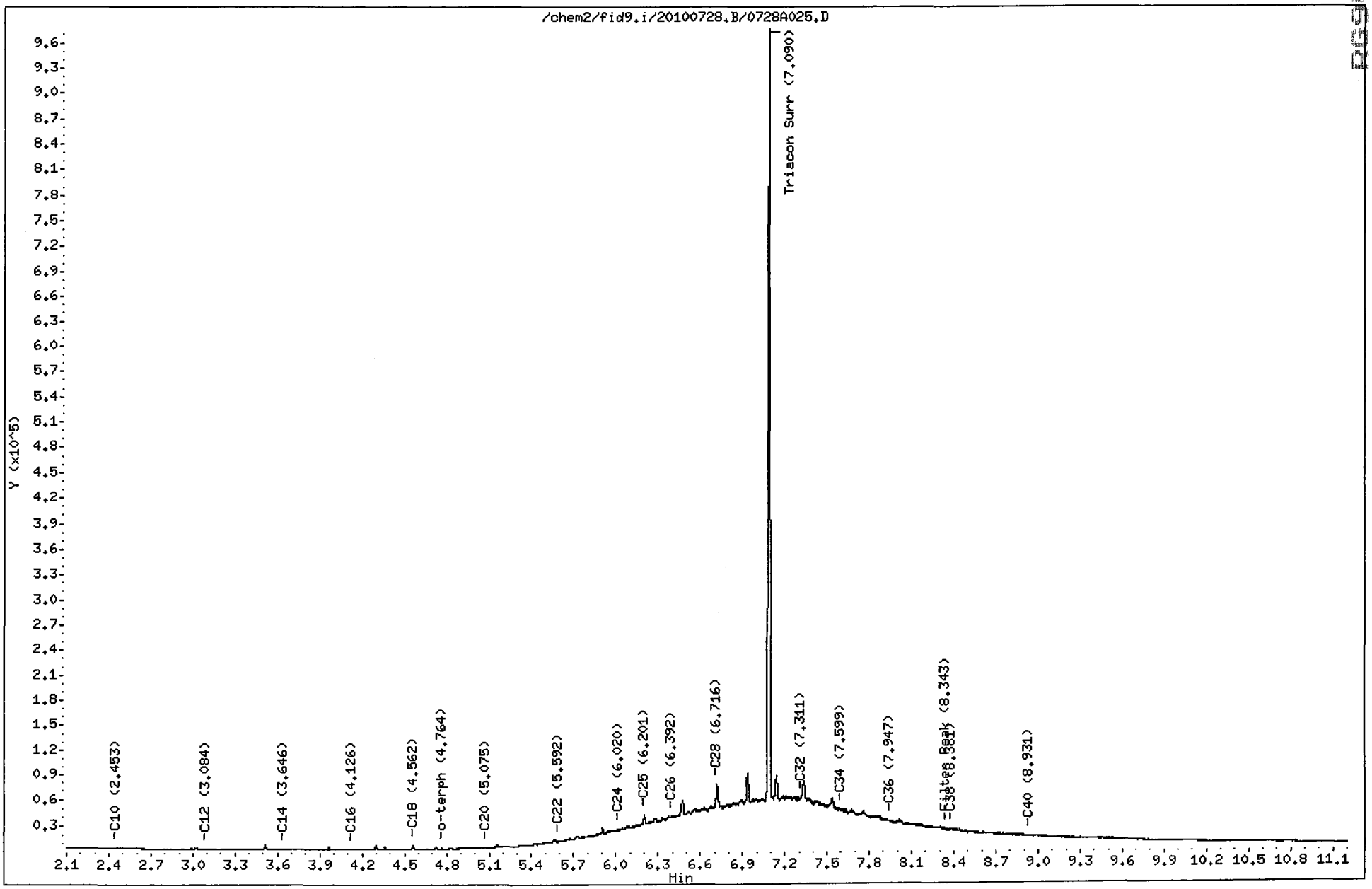
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

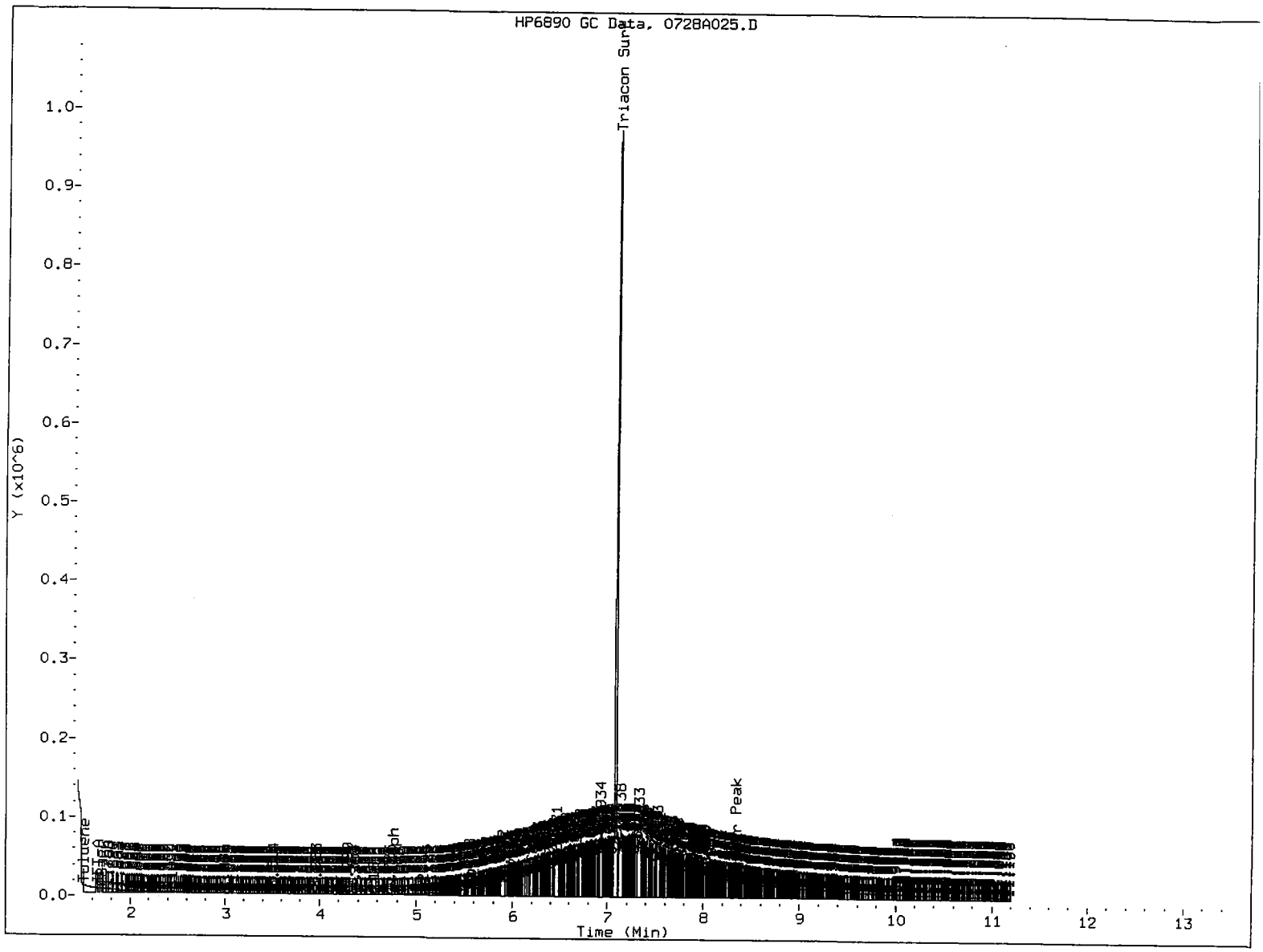
Column diameter: 0.25

RG91 : 01267



FID:9A-2C/RTX-1 MOIL ICV

FID:9A SIGNAL



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 8/30/01

ANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20100728.B

RI Job No.: DIES Method: ftphfid9a.m Instrument: fid9.i Date: 28-JUL-2010

RG91269

me	Filename	LabID	ClientId	DF	Manually Integrated Compounds
24	0728A012.D	DIESEL 50		1	o-terph,
45	0728A013.D	DIESEL 100		1	o-terph,
07	0728A014.D	DIESEL 250		1	o-terph,
28	0728A015.D	DIESEL 500		1	o-terph,
49	0728A016.D	DIESEL 1000		1	o-terph,
11	0728A017.D	DIESEL 2500		1	o-terph,
32	0728A018.D	DIESEL ICV		1	o-terph,
53	0728A019.D	MOIL 100		1	Triacon Surr,
15	0728A020.D	MOIL 250		1	Triacon Surr,
36	0728A021.D	MOIL 500		1	Triacon Surr,
57	0728A022.D	MOIL 1000		1	Triacon Surr,
18	0728A023.D	MOIL 2500		1	Triacon Surr,
10	0728A024.D	MOIL 5000		1	Triacon Surr,
1	0728A025.D	MOIL ICV		1	Triacon Surr,

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A012.D ARI ID: DIESEL 50
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 20:24
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.545	0.009	7102	15475	GAS (Tol-C12)	304122	14
C8	1.699	0.005	4935	5847	DIESEL (C12-C24)	1257340	48
C10	2.459	0.004	6197	8547	M.OIL (C24-C38)	72828	6
C12	3.101	0.010	13983	8220	AK-102 (C10-C25)	1389468	48
C14	3.623	-0.018	9291	10648	AK-103 (C25-C36)	50537	10
C16	4.138	0.009	11473	15225			
C18	4.565	-0.004	9397	11253			
C20	5.072	-0.001	4990	3711			
C22	5.592	0.004	2910	2637			
C24	6.019	-0.001	1136	455			
C25	6.225	0.013	442	364			
C26	6.395	0.003	185	147			
C28	6.710	-0.013	1703	1464			
C32	7.303	-0.006	467	137	JP-4 (Tol-C14)	499108	30
C34	7.594	-0.002	729	202	BUNKERC (C10-C38)	1459349	166
Filter Peak	8.346	0.003	768	227			
C36	7.939	-0.006	787	1098			
C38	8.383	0.003	750	640			
C40	8.938	0.003	800	514			
o-terph	4.760	-0.007	385436	262259	JET-A (C10-C18)	997196	72
Triacon Surr	7.038	0.000	197	80	JP8 (Tol-C16)	827113	47

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	262259	10.2	22.6
Triacontane	80	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A012.D

Page 1

Date : 28-JUL-2010 20:24

Client ID:

Instrument: fid9.i

Sample Info: DIESEL 50

Operator: MS

Column phase: RTX-1

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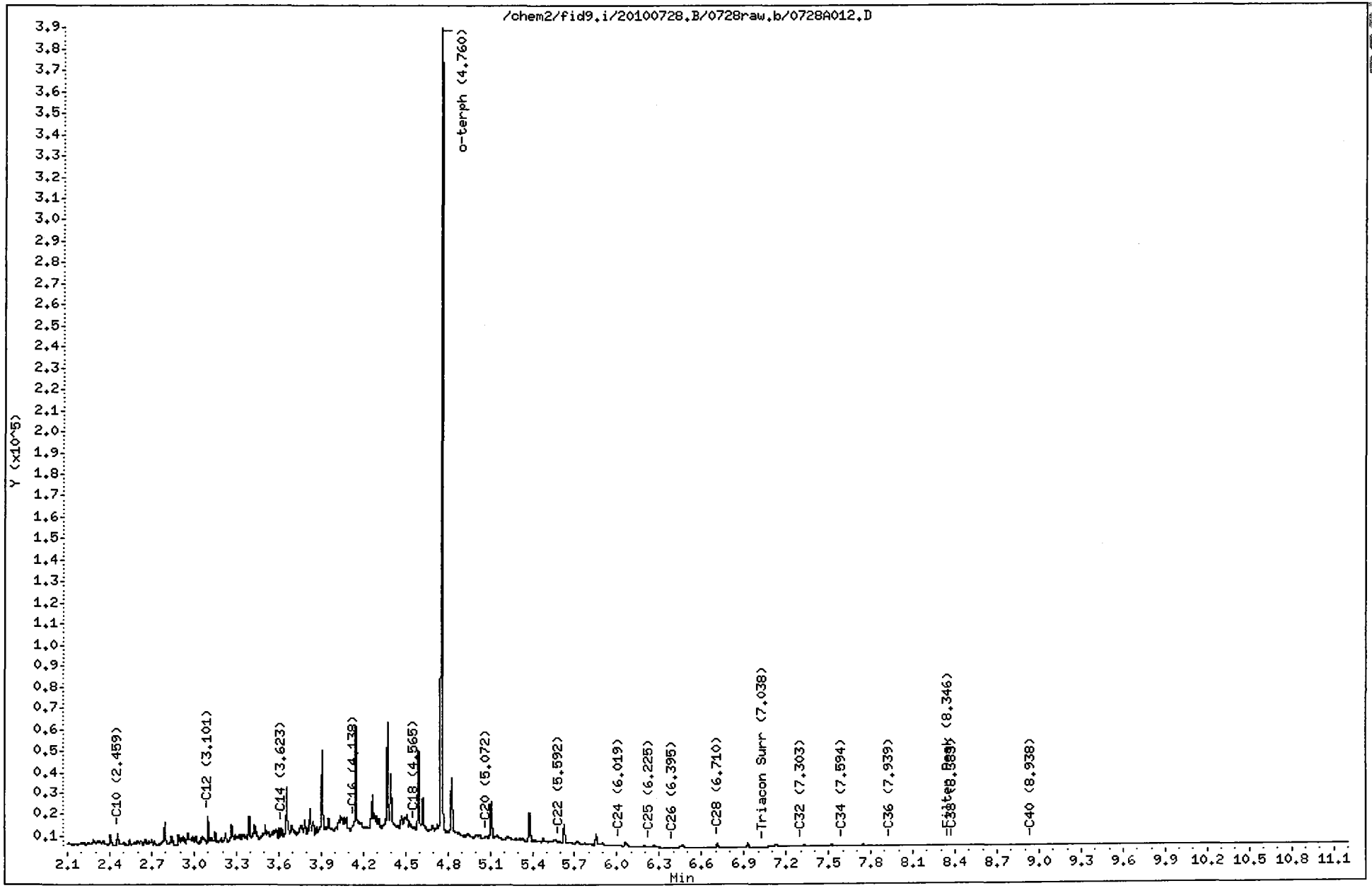


RG9L-91271

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A013.D ARI ID: DIESEL 100
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 20:45
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area
Toluene	1.545	0.009	9394	12882
C8	1.703	0.009	5426	7074
C10	2.452	-0.003	3226	2569
C12	3.103	0.012	29285	17940
C14	3.659	0.018	59261	58165
C16	4.123	-0.005	19941	17906
C18	4.567	-0.002	19222	19309
C20	5.075	0.002	10542	10663
C22	5.588	0.000	5975	5552
C24	6.023	0.003	2217	1308
C25	6.197	-0.015	2531	4056
C26	6.406	0.015	394	352
C28	6.710	-0.013	3648	2966
C32	7.307	-0.002	362	195
C34	7.593	-0.004	637	240
Filter Peak	8.338	-0.005	643	405
C36	7.942	-0.002	671	500
C38	8.378	-0.002	638	365
C40	8.938	0.002	649	435
o-terph	4.762	-0.005	723348	506270
Triacon Surr	7.036	-0.002	119	42

Range	Total Area	Conc
GAS (Tol-C12)	449059	21
DIESEL (C12-C24)	2552776	97
M.OIL (C24-C38)	87640	7
AK-102 (C10-C25)	2814752	97
AK-103 (C25-C36)	61637	12
JP-4 (Tol-C14)	845763	52
BUNKERC (C10-C38)	2894663	330
JET-A (C10-C18)	2010708	146
JP8 (Tol-C16)	1503559	85

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	506270	19.7	43.7
Triacontane	42	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A013.D

Date : 28-JUL-2010 20:45

Client ID:

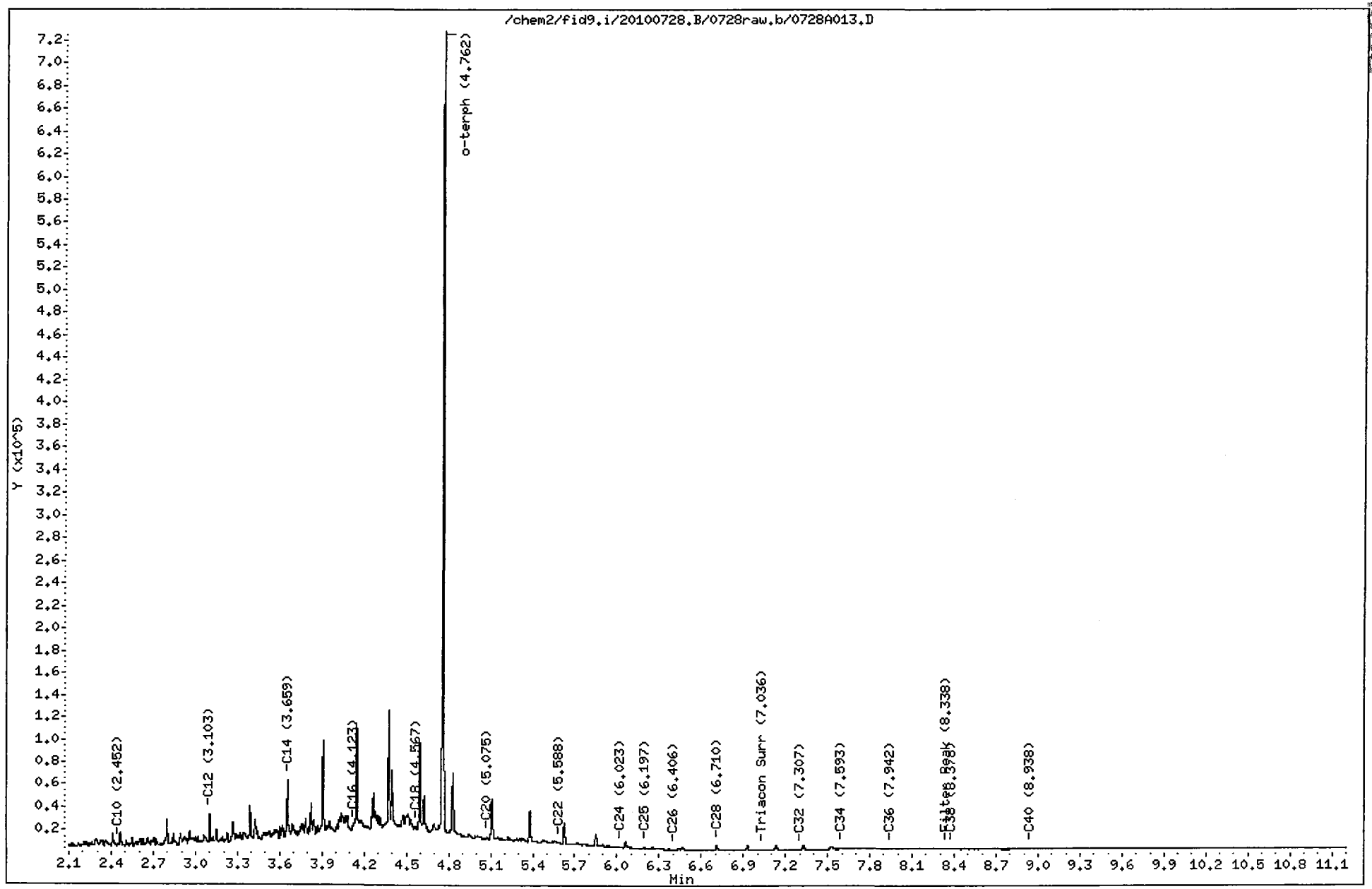
Sample Info: DIESEL 100

Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A014.D ARI ID: DIESEL 250
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:07
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area
Toluene	1.542	0.006	14752	16460
C8	1.700	0.006	8159	9848
C10	2.450	-0.005	6508	5183
C12	3.102	0.011	80325	46536
C14	3.657	0.016	148765	146845
C16	4.122	-0.007	48814	34422
C18	4.567	-0.002	47241	38471
C20	5.073	0.001	26043	28336
C22	5.589	0.000	14890	4727
C24	6.028	0.008	5981	4805
C25	6.201	-0.012	6774	13133
C26	6.387	-0.005	1514	1078
C28	6.716	-0.007	5763	5256
C32	7.308	-0.001	228	49
C34	7.600	0.003	463	110
Filter Peak	8.344	0.001	446	316
C36	7.941	-0.004	482	433
C38	8.377	-0.004	442	324
C40	8.935	0.000	425	91
o-terph	4.771	0.004	1395660	1293787
Triacon Surr	7.038	0.000	49	14

Range		Total Area	Conc
GAS	(Tol-C12)	999032	48
DIESEL	(C12-C24)	6436255	244
M.OIL	(C24-C38)	128061	10
AK-102	(C10-C25)	7125565	245
AK-103	(C25-C36)	95793	19
JP-4	(Tol-C14)	2097448	128
BUNKERC	(C10-C38)	7233913	825
JET-A	(C10-C18)	5066220	367
JP8	(Tol-C16)	3698235	210

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1293787	50.2	111.6
Triacontane	14	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

7/30/10

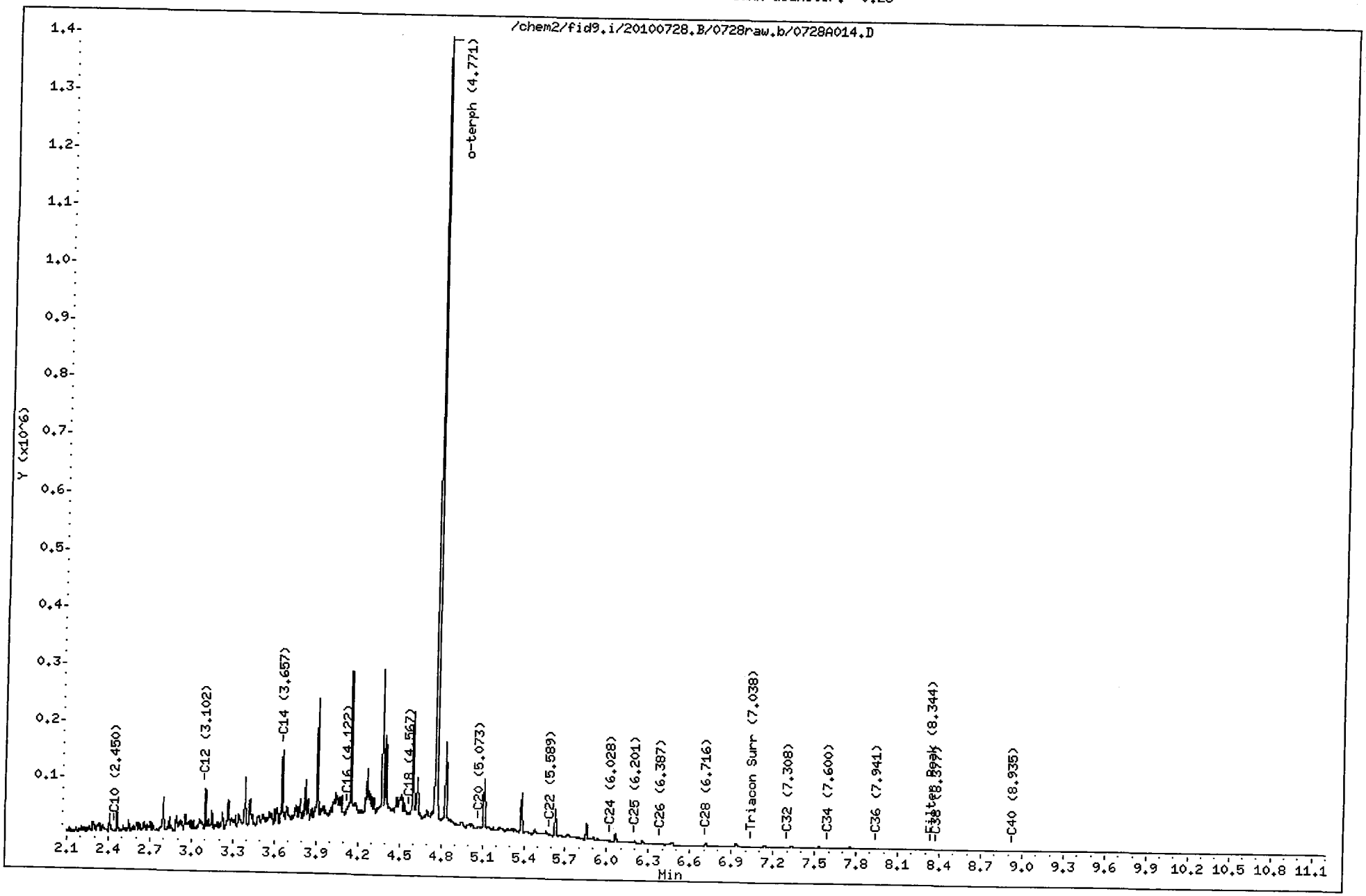
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A014.D
Date : 28-JUL-2010 21:07
Client ID:
Sample Info: DIESEL 250

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RG91-01275



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A015.D ARI ID: DIESEL 500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:28
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.550	0.014	24092	21960	GAS (Tol-C12)	1901504	91
C8	1.707	0.013	12840	13683	DIESEL (C12-C24)	13073976	497
C10	2.453	-0.002	10841	4396	M.OIL (C24-C38)	182963	14
C12	3.103	0.012	165409	95735	AK-102 (C10-C25)	14464860	498
C14	3.658	0.017	311239	296922	AK-103 (C25-C36)	133392	27
C16	4.122	-0.006	99870	66038			
C18	4.564	-0.005	95431	110341			
C20	5.074	0.002	52479	17444			
C22	5.584	-0.004	30444	11329			
C24	6.031	0.011	12477	13304			
C25	6.201	-0.012	7950	11851			
C26	6.392	0.000	3328	3066			
C28	6.713	-0.010	2681	3159			
C32	7.307	-0.002	133	71	JP-4 (Tol-C14)	4128068	252
C34	7.599	0.003	311	54	BUNKERC (C10-C38)	14605806	1665
Filter Peak	8.347	0.003	266	158			
C36	7.946	0.002	325	199			
C38	8.380	0.000	252	200			
C40	8.933	-0.002	215	132			
o-terph	4.780	0.013	2312150	2615553	JET-A (C10-C18)	10357341	749
Triacon Surr	7.035	-0.003	24	5	JP8 (Tol-C16)	7327543	416

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2615553	101.5	225.6
Triacontane	5	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A015.D

Date : 28-JUL-2010 21:28

Client ID:

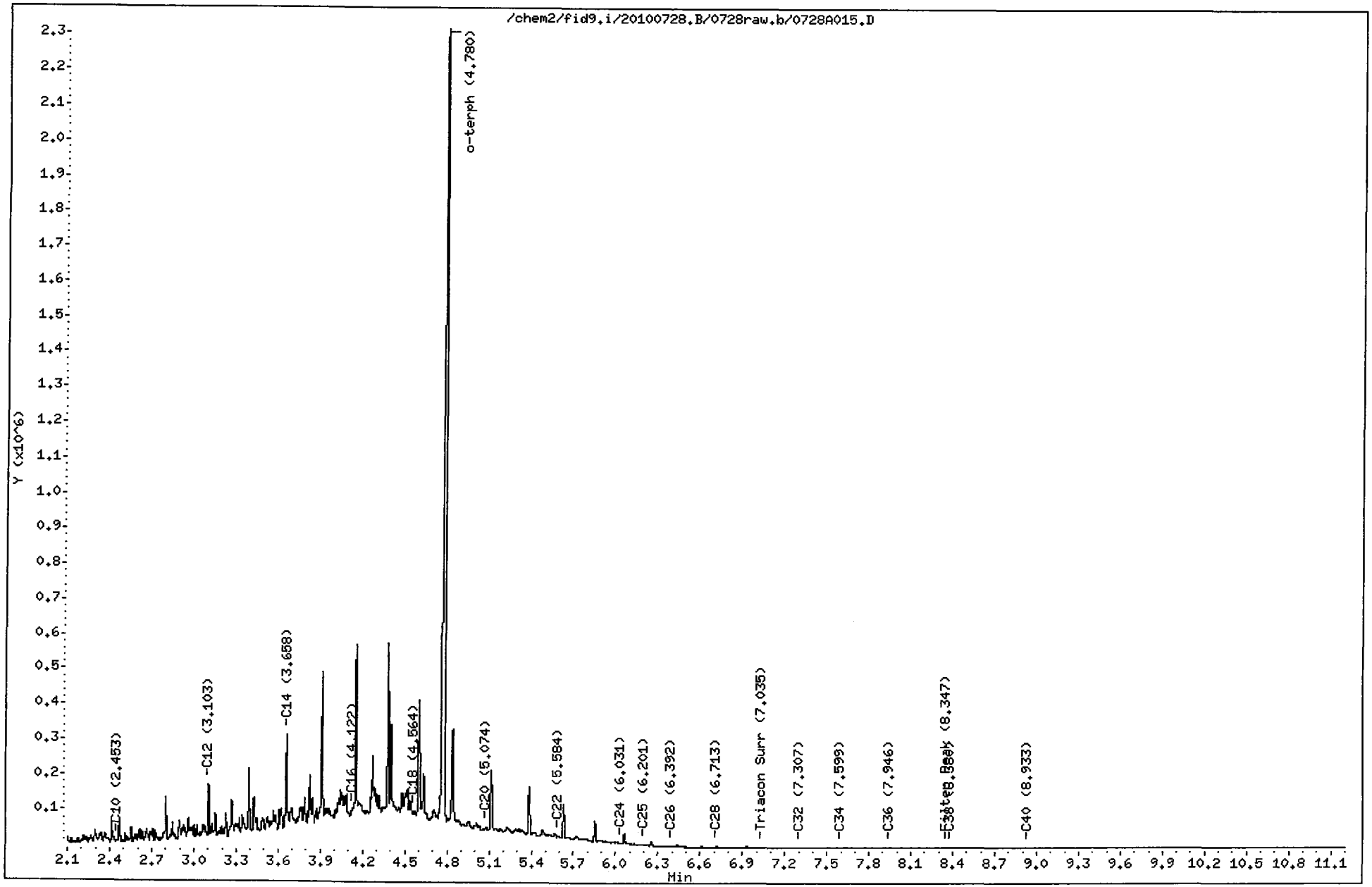
Sample Info: DIESEL 500

Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A016.D ARI ID: DIESEL 1000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 21:49
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.522	-0.014	10876	15528	GAS (Tol-C12)	3531545	168
C8	1.681	-0.013	9803	11090	DIESEL (C12-C24)	25634454	974
C10	2.453	-0.002	18978	7692	M.OIL (C24-C38)	394336	31
C12	3.105	0.014	327593	189038	AK-102 (C10-C25)	28360210	976
C14	3.660	0.019	587586	585940	AK-103 (C25-C36)	290957	58
C16	4.123	-0.005	194975	156606			
C18	4.571	0.002	188327	195568			
C20	5.075	0.003	102065	48020			
C22	5.588	-0.001	60397	13108			
C24	6.012	-0.008	28768	31861			
C25	6.201	-0.011	17610	33377			
C26	6.390	-0.002	7211	10254			
C28	6.716	-0.006	7614	9107			
C32	7.302	-0.007	202	83	JP-4 (Tol-C14)	7631157	465
C34	7.591	-0.005	294	192	BUNKERC (C10-C38)	28658250	3268
Filter Peak	8.345	0.002	161	90			
C36	7.947	0.002	235	162			
C38	8.386	0.006	146	81			
C40	8.938	0.002	67	15			
o-terph	4.795	0.028	3307229	5312362	JET-A (C10-C18)	20311515	1470
Triacon Surr	7.032	-0.006	267	242	JP8 (Tol-C16)	14220053	808

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	5312362	206.2	458.2
Triacontane	242	0.0	0.0

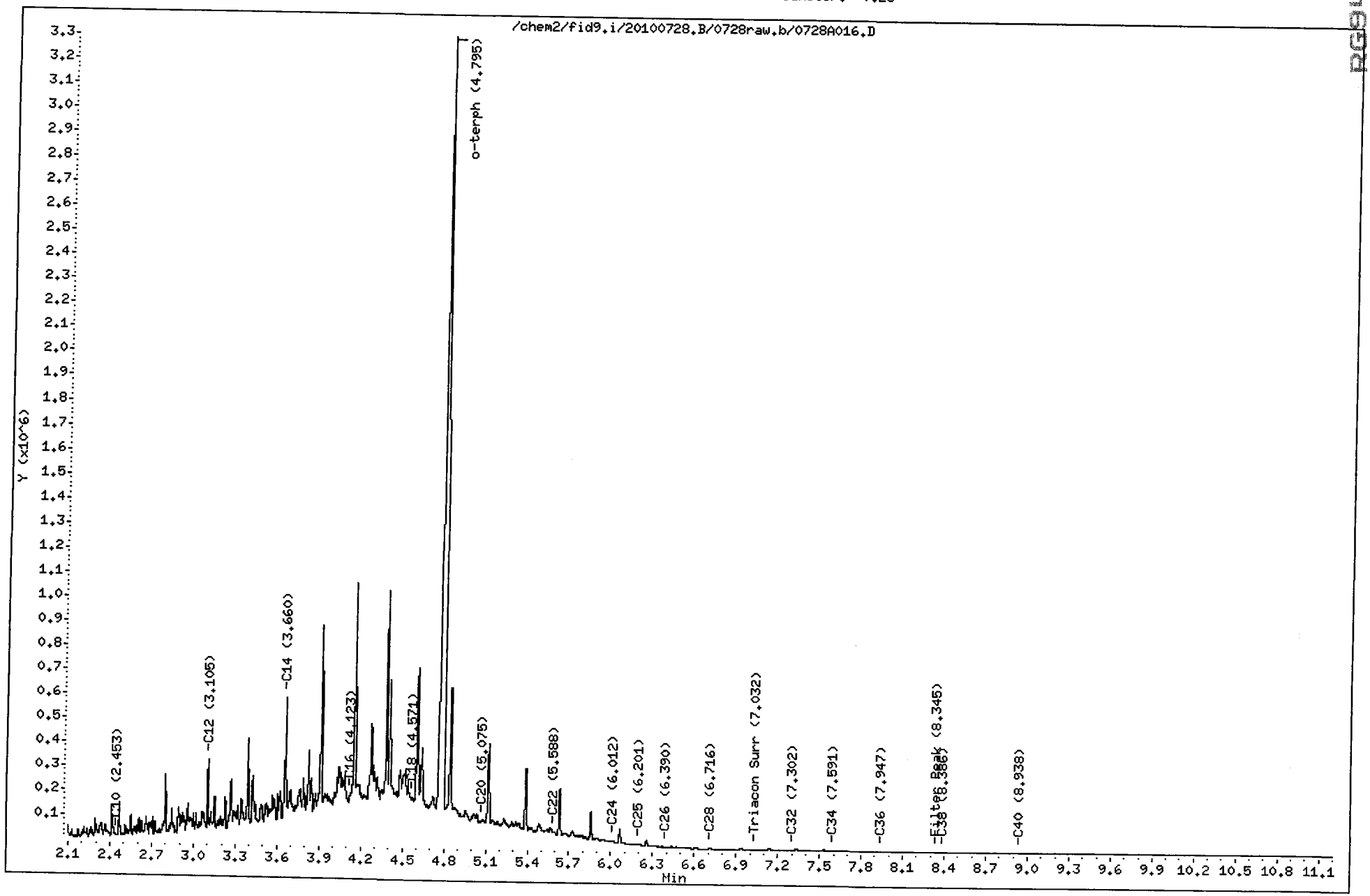
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A016.D
Date : 28-JUL-2010 21:49
Client ID:
Sample Info: DIESEL 1000

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A017.D ARI ID: DIESEL 2500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 22:11
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

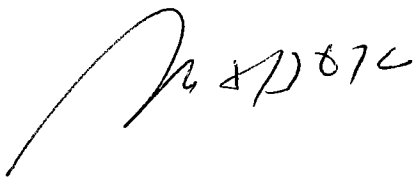
FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.527	-0.009	13560	11562	GAS (Tol-C12)	8824002	420
C8	1.696	0.002	11080	4589	DIESEL (C12-C24)	78583836	2984
C10	2.446	-0.009	54486	45945	M.OIL (C24-C38)	1069546	84
C12	3.108	0.017	766741	530976	AK-102 (C10-C25)	85583799	2946
C14	3.623	-0.018	472383	536342	AK-103 (C25-C36)	814815	163
C16	4.129	0.001	485188	391044			
C18	4.575	0.006	464619	138288			
C20	5.065	-0.008	324441	293811			
C22	5.599	0.011	159352	44294			
C24	6.014	-0.006	74943	92274			
C25	6.200	-0.013	55517	125809			
C26	6.393	0.001	18866	27921			
C28	6.714	-0.009	18491	25629			
C32	7.300	-0.009	811	206	JP-4 (Tol-C14)	19257288	1174
C34	7.598	0.002	667	236	BUNKERC (C10-C38)	86411627	9852
Filter Peak	8.352	0.008	294	163			
C36	7.939	-0.006	456	454			
C38	8.372	-0.008	289	303			
C40	8.930	-0.005	144	37			
o-terph	4.745	-0.022	442051	349242	JET-A (C10-C18)	49526362	3584
Triacon Surr	7.036	-0.002	1327	1487	JP8 (Tol-C16)	35611639	2024

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	349242	13.6	30.1
Triacontane	1487	0.1	0.2

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010



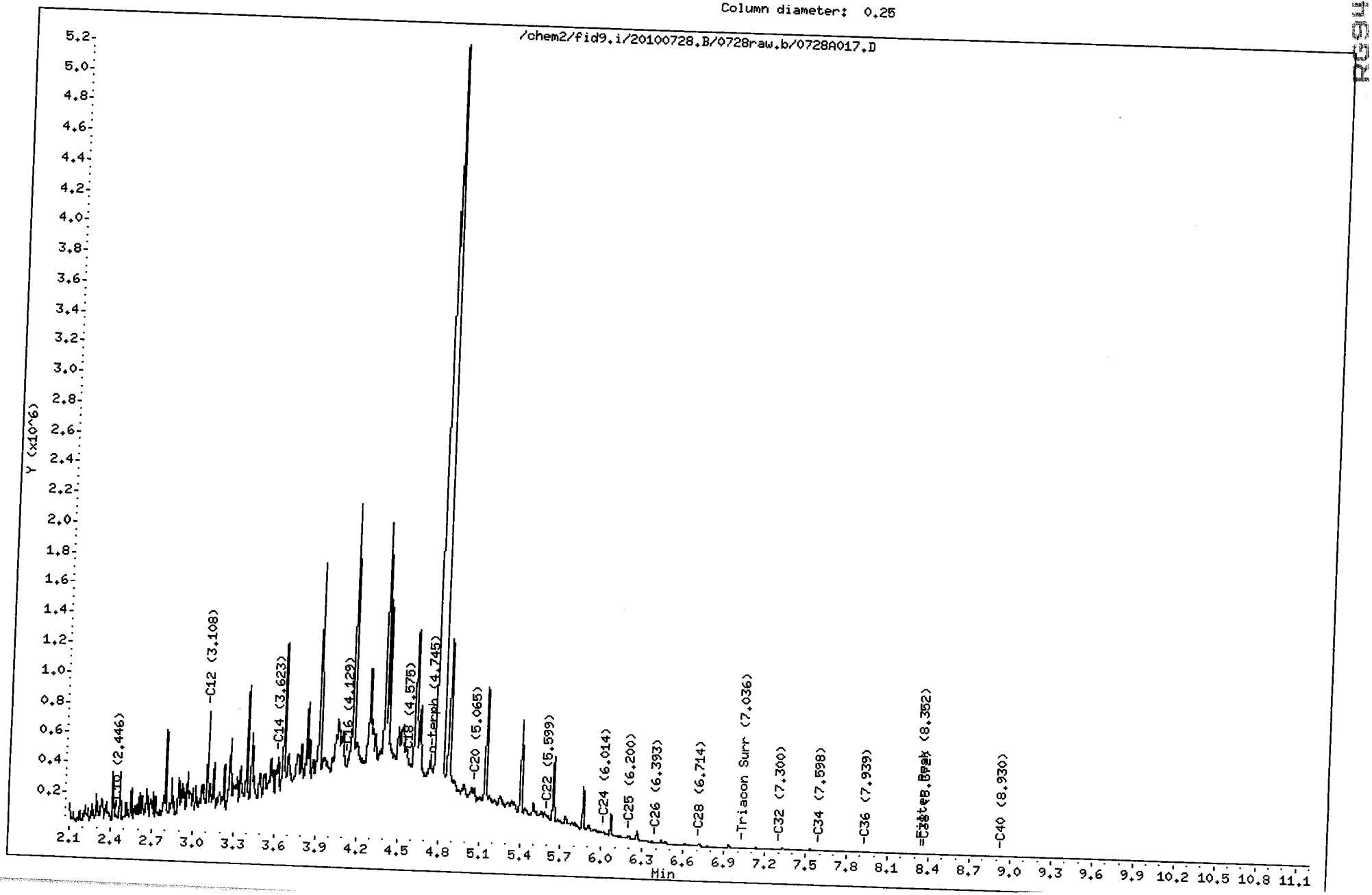
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A017.D
Date : 28-JUL-2010 22:11
Client ID:
Sample Info: DIESEL 2500

Instrument: fid9.i

Column phase: RTX-1

Operator: MS
Column diameter: 0.25

RG91:01281



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A019.D ARI ID: MOIL 100
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 22:53
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	7458	18695	GAS (Tol-C12)	141901	7
C8	1.726	0.033	5158	6296	DIESEL (C12-C24)	170722	6
C10	2.453	-0.002	2104	2277	M.OIL (C24-C38)	1637902	128
C12	3.087	-0.004	132	32	AK-102 (C10-C25)	227313	8
C14	3.638	-0.003	73	40	AK-103 (C25-C36)	1430764	286
C16	4.130	0.002	69	41			
C18	4.564	-0.005	811	866			
C20	5.075	0.003	500	282			
C22	5.588	-0.001	2108	500			
C24	6.024	0.004	5281	1867			
C25	6.222	0.010	6965	4086			
C26	6.393	0.001	8433	4859			
C28	6.715	-0.008	26196	37657			
C32	7.310	0.001	14515	3993	JP-4 (Tol-C14)	147735	9
C34	7.596	0.000	11767	4821	BUNKERC (C10-C38)	1833277	209
Filter Peak	8.344	0.001	6091	3946			
C36	7.940	-0.005	8533	7979			
C38	8.385	0.005	5855	2782			
C40	8.936	0.000	3917	1842			
o-terph	4.766	-0.001	1479	1425	JET-A (C10-C18)	40423	3
Triacon Surr	7.036	-0.002	13527	12287	JP8 (Tol-C16)	151586	9

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1425	0.1	0.1
Triacontane	12287	0.6	1.4

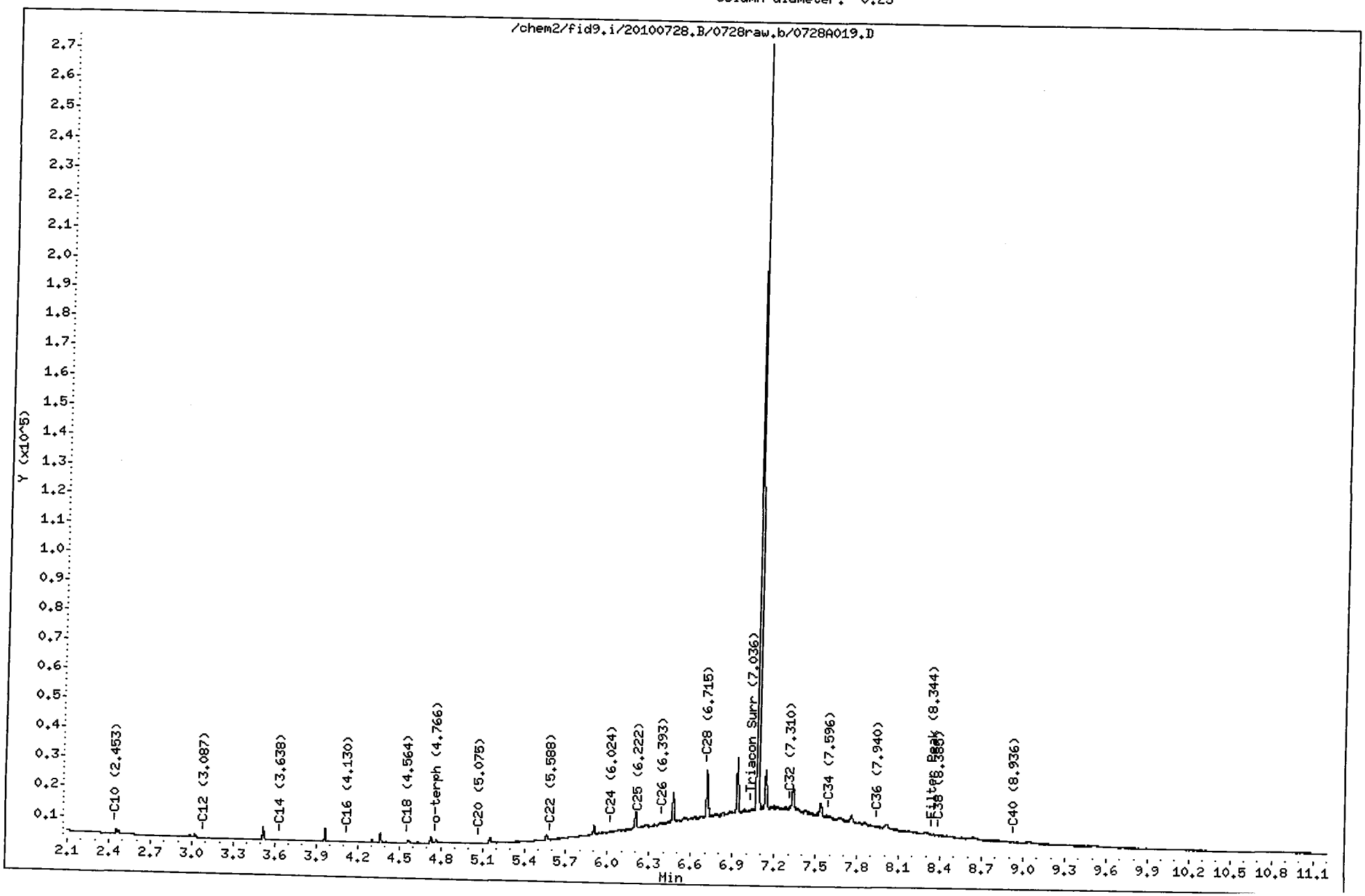
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A019.D
Date : 28-JUL-2010 22:53
Client ID:
Sample Info: MOIL 100

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A020.D ARI ID: MOIL 250
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:15
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.542	0.006	9497	26573	GAS (Tol-C12)	196853	9
C8	1.701	0.007	5948	3882	DIESEL (C12-C24)	365810	14
C10	2.453	-0.002	2442	3279	M.OIL (C24-C38)	3704698	290
C12	3.084	-0.007	295	172	AK-102 (C10-C25)	480434	17
C14	3.641	0.000	143	28	AK-103 (C25-C36)	3234984	646
C16	4.130	0.002	41	6			
C18	4.564	-0.005	1875	1532			
C20	5.076	0.003	1034	1260			
C22	5.593	0.005	5116	2268			
C24	6.019	-0.001	12501	3919			
C25	6.217	0.004	16132	5120			
C26	6.394	0.003	20541	11264			
C28	6.719	-0.004	29297	45978			
C32	7.310	0.001	33294	13189	JP-4 (Tol-C14)	205495	13
C34	7.596	0.000	26975	12175	BUNKERC (C10-C38)	4105098	468
Filter Peak	8.341	-0.002	13586	4242			
C36	7.941	-0.004	19049	9333			
C38	8.372	-0.008	13101	10702			
C40	8.931	-0.004	8356	5723			
o-terph	4.766	-0.001	970	1169	JET-A (C10-C18)	53412	4
Triacon Surr	7.041	0.003	32829	14153	JP8 (Tol-C16)	208886	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1169	0.0	0.1
Triacontane	14153	0.7	1.6

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

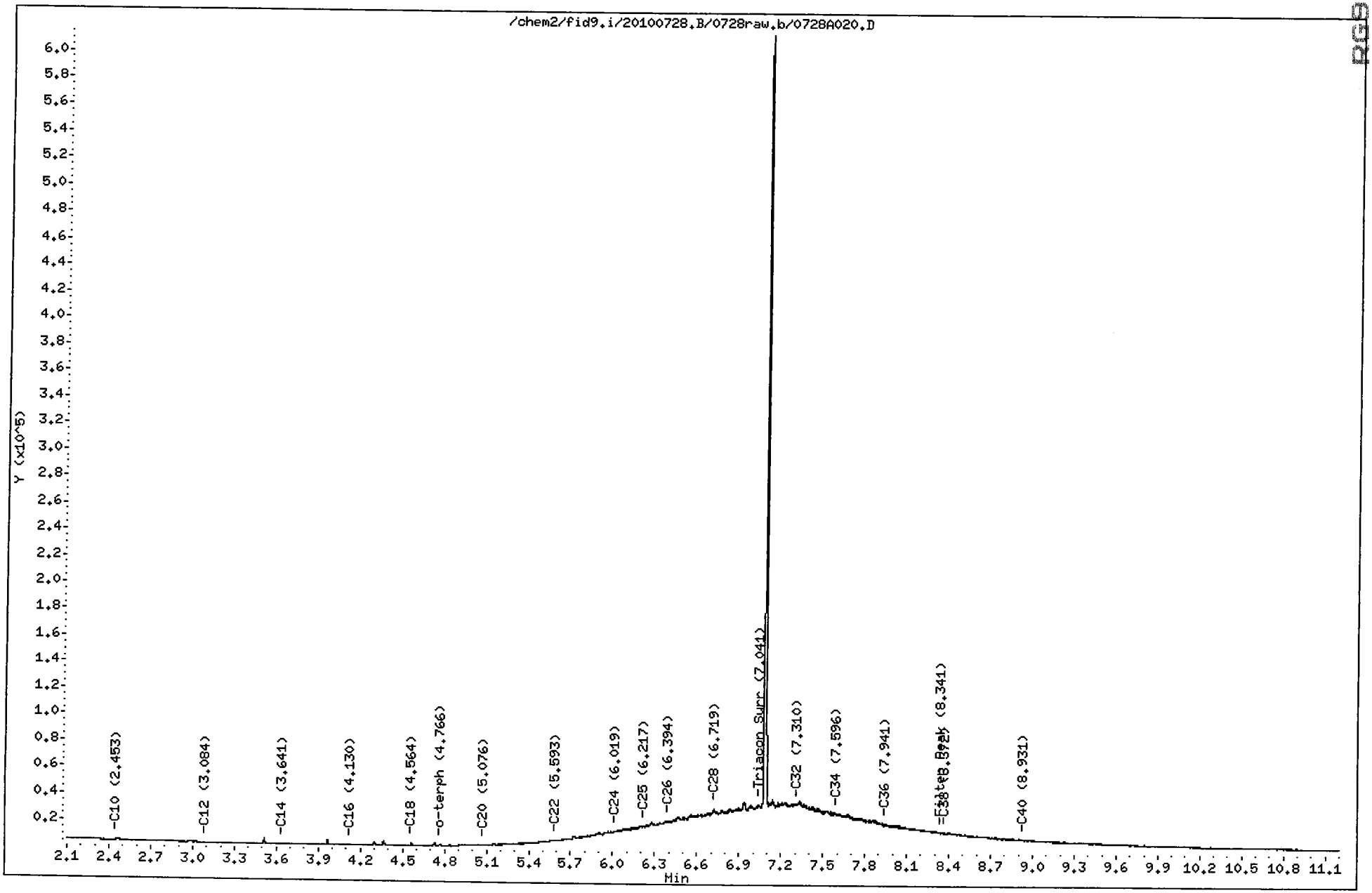
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A020.D
Date : 28-JUL-2010 23:15
Client ID:
Sample Info: MOIL 250

Column phase: RTX-1

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

RGBL-91285



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A021.D ARI ID: MOIL 500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:36
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.544	0.008	9179	20369	GAS (Tol-C12)	216239	10
C8	1.728	0.034	6026	8955	DIESEL (C12-C24)	681352	26
C10	2.454	-0.002	2354	2271	M.OIL (C24-C38)	7090303	554
C12	3.094	0.003	289	44	AK-102 (C10-C25)	866175	30
C14	3.642	0.001	195	126	AK-103 (C25-C36)	6178857	1234
C16	4.125	-0.003	40	9			
C18	4.561	-0.008	3657	2936			
C20	5.072	-0.001	2047	2188			
C22	5.593	0.004	10080	6940			
C24	6.019	-0.001	23765	7965			
C25	6.211	-0.002	31744	9374			
C26	6.394	0.003	39169	13151			
C28	6.721	-0.002	55036	30221			
C32	7.312	0.003	65826	24703	JP-4 (Tol-C14)	225770	14
C34	7.600	0.003	52438	20690	BUNKERC (C10-C38)	7803945	890
Filter Peak	8.350	0.007	26035	6689			
C36	7.944	-0.001	38444	12762			
C38	8.382	0.002	26485	18398			
C40	8.934	-0.002	15558	5694			
o-terph	4.764	-0.003	1139	1159	JET-A (C10-C18)	56856	4
Triacon Surr	7.035	-0.003	64313	60373	JP8 (Tol-C16)	229628	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1159	0.0	0.1
Triacontane	60373	3.0	6.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

7/30/10

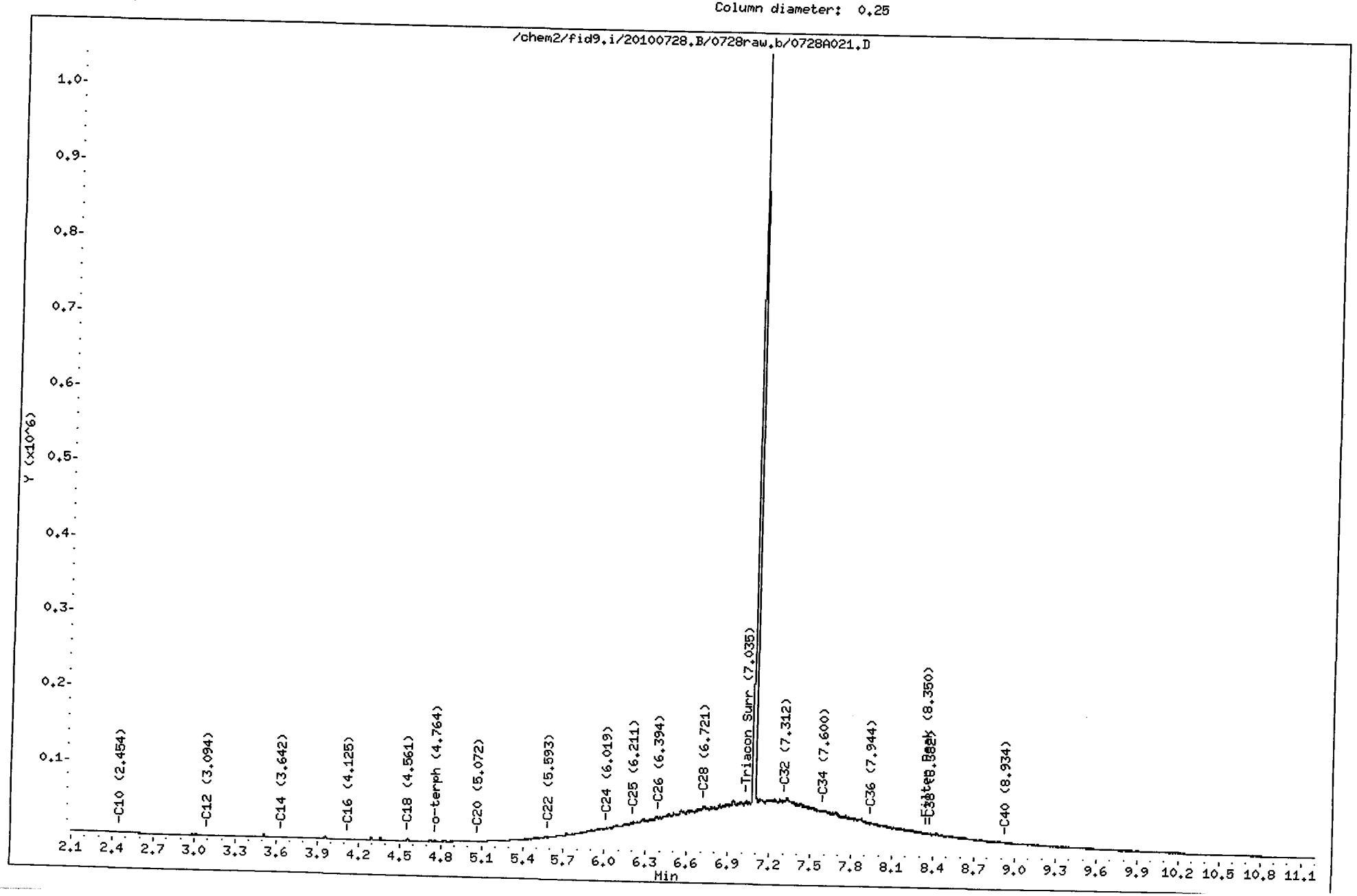
Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A021.D
Date : 28-JUL-2010 23:36
Client ID:
Sample Info: MOIL 500

Instrument: fid9.i

Operator: MS
Column diameter: 0.25

Column phase: RTX-1

RGSil-91287



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A022.D ARI ID: MOIL 1000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 28-JUL-2010 23:57
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.538	0.002	10649	63178	GAS (Tol-C12)	218627	10
C8	1.703	0.010	6083	4895	DIESEL (C12-C24)	1375330	52
C10	2.453	-0.003	2350	1902	M.OIL (C24-C38)	14305504	1119
C12	3.089	-0.002	381	214	AK-102 (C10-C25)	1720432	59
C14	3.639	-0.002	299	246	AK-103 (C25-C36)	12524196	2500
C16	4.129	0.000	79	16			
C18	4.560	-0.009	7645	6024			
C20	5.072	0.000	4064	7040			
C22	5.597	0.008	20853	24416			
C24	6.018	-0.002	49376	52041			
C25	6.213	0.001	63610	16233			
C26	6.389	-0.002	79064	34283			
C28	6.720	-0.003	107910	42122			
C32	7.310	0.001	130942	41405	JP-4 (Tol-C14)	231895	14
C34	7.599	0.002	108281	136091	BUNKERC (C10-C38)	15714808	1792
Filter Peak	8.345	0.002	52029	25346			
C36	7.948	0.003	74855	16070			
C38	8.376	-0.004	51433	44591			
C40	8.939	0.003	30398	16046			
o-terph	4.764	-0.003	1794	1847	JET-A (C10-C18)	72341	5
Triacon Surr	7.037	-0.001	127050	74010	JP8 (Tol-C16)	236928	13

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1847	0.1	0.2
Triacontane	74010	3.7	8.3

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A022.D

Page 1

Date : 28-JUL-2010 23:57

Client ID:

Instrument: fid9.i

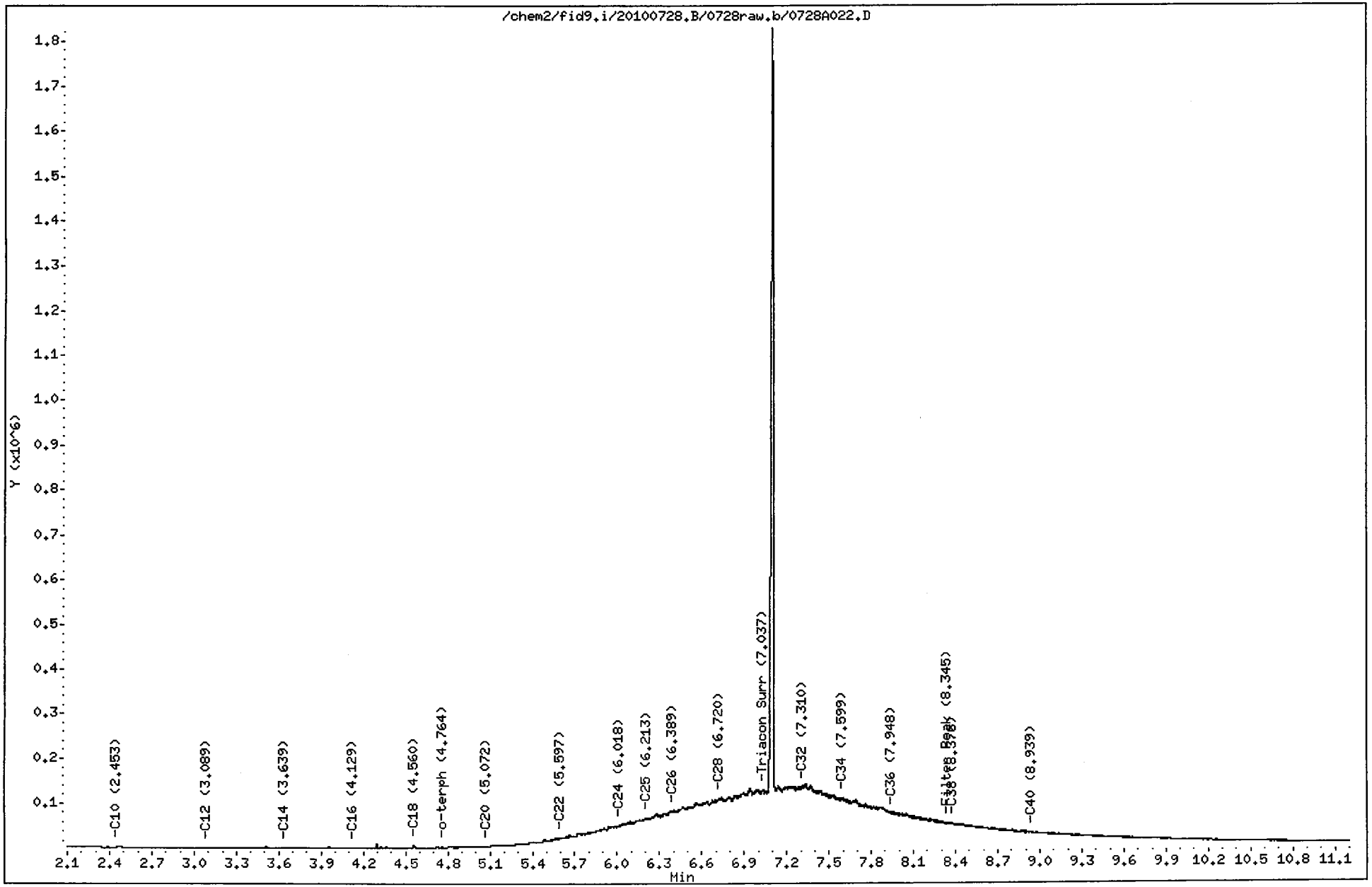
Sample Info: MOIL 1000

Operator: MS

Column phase: RTX-1

Column diameter: 0.25

RG94-01289



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A023.D ARI ID: MOIL 2500
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 29-JUL-2010 00:18
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	185483	9
C8	1.718	0.025	7199	4779	DIESEL (C12-C24)	3353157	127
C10	2.459	0.004	3767	6961	M.OIL (C24-C38)	34124562	2669
C12	3.085	-0.006	494	385	AK-102 (C10-C25)	4193453	144
C14	3.640	-0.001	498	323	AK-103 (C25-C36)	29834397	5956
C16	4.130	0.001	204	91			
C18	4.559	-0.010	20942	16266			
C20	5.069	-0.004	9741	14269			
C22	5.589	0.001	46953	16444			
C24	6.020	0.000	116155	30105			
C25	6.215	0.003	149541	35623			
C26	6.388	-0.003	192672	83538			
C28	6.725	0.002	249614	49500			
C32	7.308	-0.001	301815	83744	JP-4 (Tol-C14)	202516	12
C34	7.594	-0.002	255953	217957	BUNKERC (C10-C38)	37513451	4277
Filter Peak	8.350	0.006	124584	111418			
C36	7.944	-0.001	179229	56451			
C38	8.379	-0.001	117276	59781			
C40	8.938	0.003	70596	37072			
o-terph	4.762	-0.005	3843	4178	JET-A (C10-C18)	110588	8
Triacon Surr	7.043	0.005	291768	230191	JP8 (Tol-C16)	210004	12

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4178	0.2	0.4
Triacontane	230191	11.6	25.8

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A023.D

Date : 29-JUL-2010 00:18

Client ID:

Sample Info: MOIL 2500

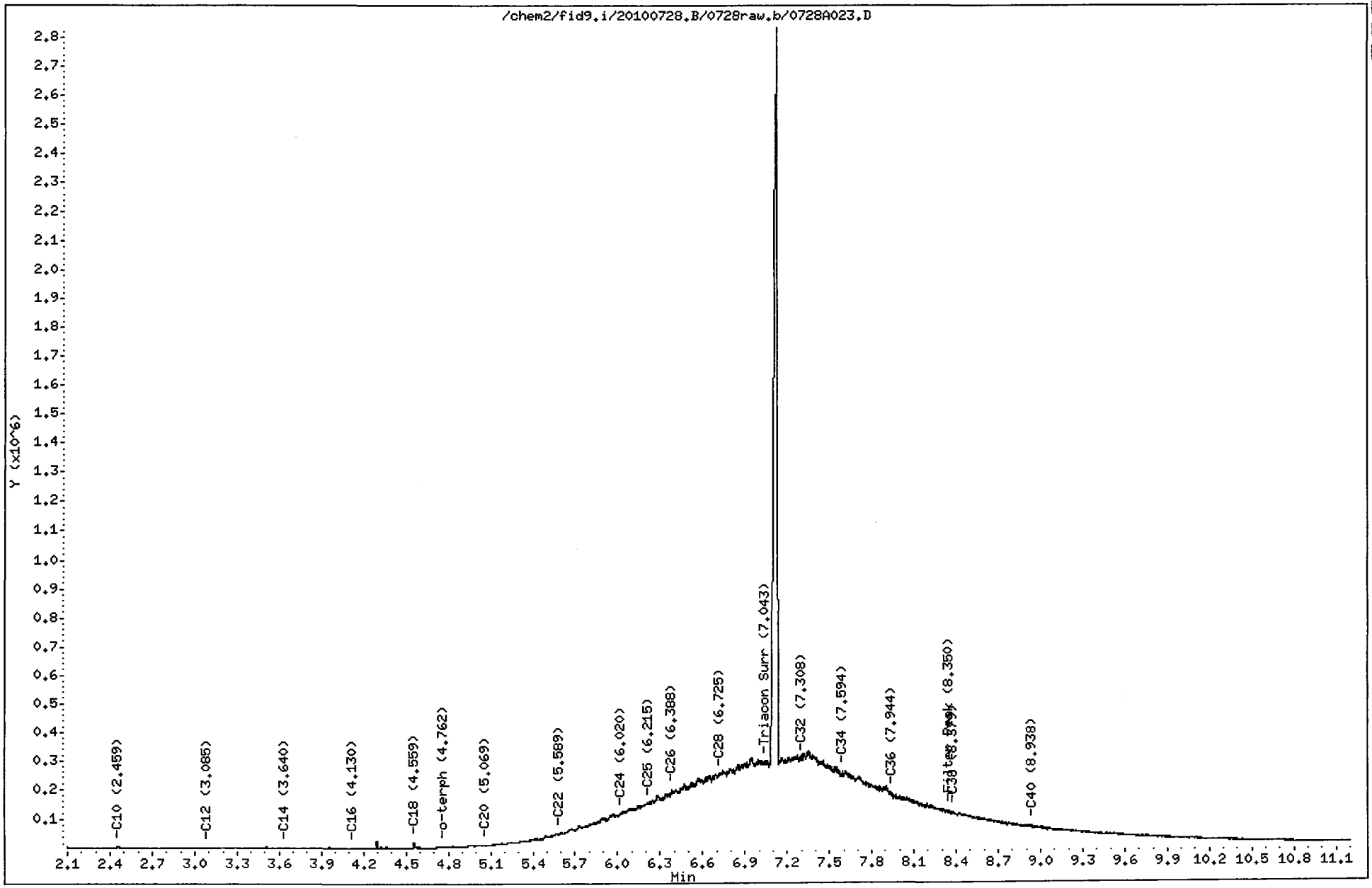
Column phase: RTX-1

Instrument: fid9.i

Operator: MS

Column diameter: 0.25

RG91-01291



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100728.B/0728raw.b/0728A024.D ARI ID: MOIL 5000
Method: /chem2/fid9.i/20100728.B/ftphfid9a.m Client ID:
Instrument: fid9.i Injection: 29-JUL-2010 00:40
Operator: MS Dilution Factor: 1
Report Date: 07/30/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.505	-0.031	22596	103344	GAS (Tol-C12)	263209	13
C8	1.724	0.030	8164	11347	DIESEL (C12-C24)	6666776	253
C10	2.462	0.006	6166	7110	M.OIL (C24-C38)	67258151	5260
C12	3.104	0.013	3368	1784	AK-102 (C10-C25)	8147281	280
C14	3.646	0.005	615	350	AK-103 (C25-C36)	59351121	11849
C16	4.129	0.001	608	343			
C18	4.560	-0.009	37045	30543			
C20	5.070	-0.002	19428	26259			
C22	5.582	-0.007	96098	68803			
C24	6.023	0.003	234560	106000			
C25	6.207	-0.006	297700	255615			
C26	6.393	0.001	373459	230456			
C28	6.726	0.003	495735	196084			
C32	7.305	-0.004	602415	260738	JP-4 (Tol-C14)	285229	17
C34	7.597	0.000	510745	472002	BUNKERC (C10-C38)	73961804	8433
Filter Peak	8.346	0.002	226260	178664			
C36	7.943	-0.001	358012	278298			
C38	8.379	-0.001	210178	74132			
C40	8.935	0.000	96401	47669			
o-terph	4.761	-0.006	24528	21927	JET-A (C10-C18)	180059	13
Triacon Surr	7.043	0.005	564895	111509	JP8 (Tol-C16)	304722	17

M Indicates manual integration within range.
Range Times: NW Diesel(3.091 - 6.020) AK102(2.46 - 6.21) Jet A(2.46 - 4.57)
NW M.Oil(6.02 - 8.38) AK103(6.21 - 7.94) OR Diesel(2.46 - 6.72)

Surrogate	Area	Amount	%Rec
o-Terphenyl	21927	0.9	1.9
Triacontane	111509	5.6	12.5

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100728.B/0728raw.b/0728A024.D

Page 1

Date : 29-JUL-2010 00:40

Client ID:

Instrument: fid9.i

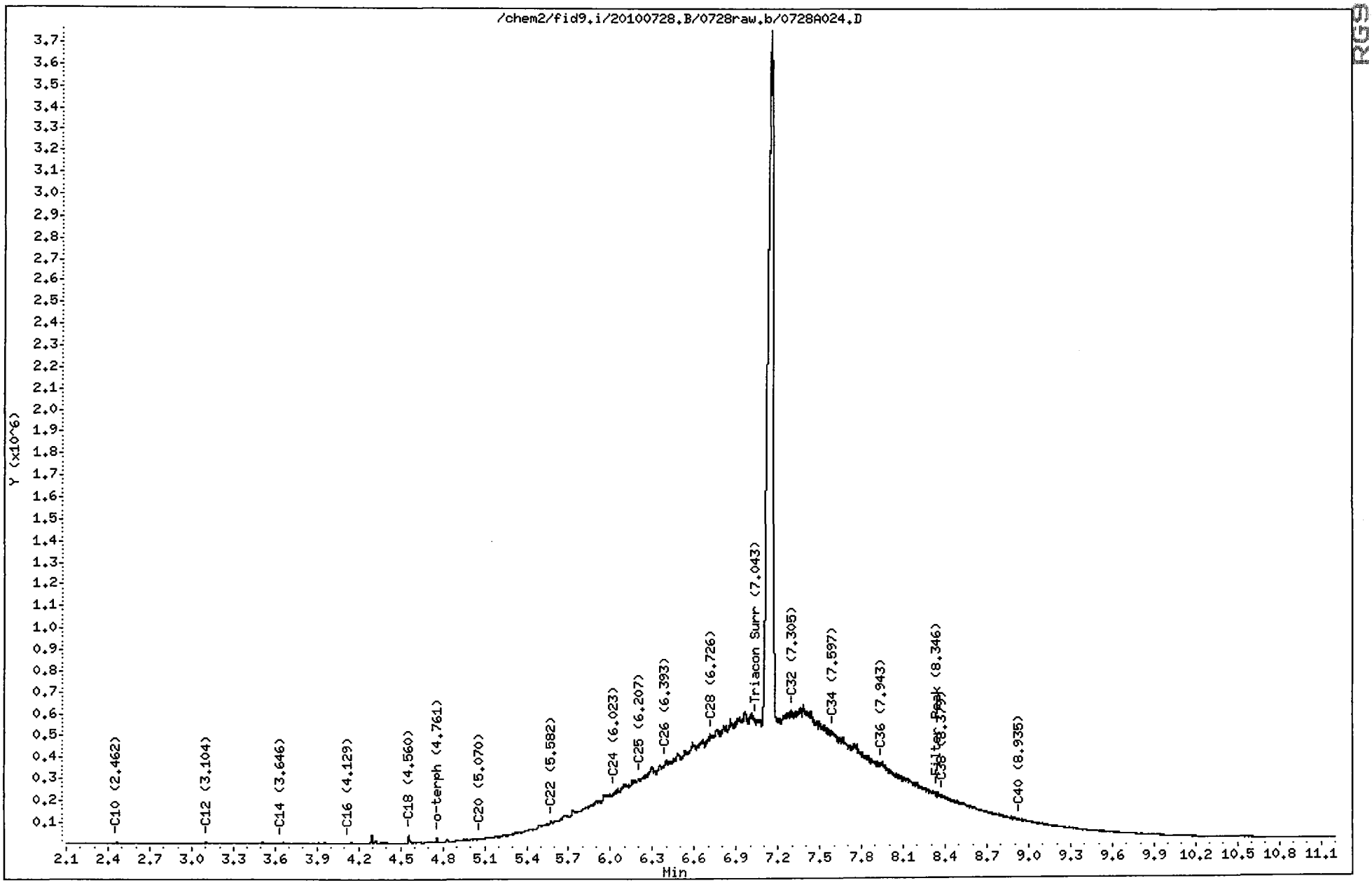
Sample Info: MOIL 5000

Operator: MS

Column phase: RTX-1

Column diameter: 0.25

RGSH: 61293



TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG94

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: RG94 Client ID: Floyd/Snider

ARI SOP: **403S**(PCB) **405S**(Herb) **407S**(TPH-D) **409S**(HCID) **412S**(PCP) **423S**(Pest)
427S(Dir Inj) **428S**(EPH) **432S**(EDB) **Other**

Parameter(s): Diesel, M-Oil, oTeph-

Instrument: FID-3A (FID-3B) FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/30/10 Analysis Start: 8/9/10

Endrin/DDT Breakdown <15%? YES / NO / (NA) Method Blank In Control? (YES) / NO

ICal Meets RF & %RSD Criteria? (YES) / NO LCS/LCSD Recovery In Control? (YES) / NO

CCal Meets RF & %RSD Criteria? (YES) / NO Surrogate Recovery In Control? (YES) / NO

Manual Integrations for ICal? (YES) / NO Manual Integrations for Samples? (YES) / NO

Internal Standard Meets Criteria? YES / NO / (NA) Special Analysis Criteria Met? YES / NO (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes (No)

Analyst: MM **Date:** 8/11/10

Reviewer: [signature] **Date:** 8/11/10

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 8/9/10 Analysis: NWTPHD Analyst: MC

GC Program: TPHFID Column No: 162478 Column Type: ZB1 HT

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
	1700-1 1751-2 1730-3 1755-2	

	Time	Filename	LabID	ClientId	DF
1	1629	0809b001.d	RINSE		1
2	1647	0809b002.d	RT		1
3	1706	0809b003.d	IB		1
4	1725	0809b004.d	DIESEL#1		1
5	1744	0809b005.d	MOIL#1		1
6	1843	0809b006.d	RH20A	IT-ROB-CMP1-	5
7	1901	0809b007.d	RH20B		5
8	1920	0809b008.d	RH20LCSS1	RH20LCSS1	1
9	1939	0809b009.d	RH20LCSDS1	RH20LCSDS1	1
10	1958	0809b010.d	RH20MBS1	RH20MBS1	1
11	2016	0809b011.d	RH20B	IT-ROB-CMP2-	1
12	2035	0809b012.d	DIESEL#2		1
13	2054	0809b013.d	MOIL#2		1
14	2113	0809b014.d	RG94A	MW14-15-16.5	1
15	2132	0809b015.d	RG94B	MW14-22.5-24	1
16	2151	0809b016.d	RG94C	MW13-10-11.5	1
17	2210	0809b017.d	RG94D	MW13-14-14.5	1
18	2229	0809b018.d	RG94E	MW13-18.5-19	1
19	2248	0809b019.d	RG94F	MW13-18.5-19	1
20	2307	0809b020.d	RG94G	MW12-5.5-7.5	1
21	2326	0809b021.d	RG94H	MW12-8-9.5-0	1
22	2345	0809b022.d	RG94HMS	MW12-8-9.5-0	1
23	0004	0809b023.d	RG94HMSD	MW12-8-9.5-0	1
24	0023	0809b024.d	RG94I	MW12-10-11.5	1
25	0042	0809b025.d	RG94J	MW12-17.5-19	1
26	0101	0809b026.d	DIESEL#3		1
27	0121	0809b027.d	MOIL#3		1
28	0140	0809b028.d	RG94MBW1	RG94MBW1	1
29	0159	0809b029.d	RG94LCSW1	RG94LCSW1	1
30	0218	0809b030.d	RG94LCSDW1	RG94LCSDW1	1
31	0237	0809b031.d	RG94K	MW12-ER-0802	1
32	0256	0809b032.d	DIESEL#4		1
33	0315	0809b033.d	MOIL#4		1

MC 8/11/10

8/11/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100809.b

ARI Job No.: RINS   Method: i/20100809.b/ftphfid3b.m   Instrument: fid3b.i   Date: 09-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1629	0809b001.d	RINSE		1	NO MANUAL INTEGRATION
1647	0809b002.d	RT		1	Toluene, C8,
1706	0809b003.d	IB		1	NO MANUAL INTEGRATION
1725	0809b004.d	DIESEL#1		1	o-terph,
1744	0809b005.d	MOIL#1		1	Triacon Surr,
1843	0809b006.d	RH20A	IT-ROB-CMP	5	o-terph, Triacon Surr,
1901	0809b007.d	RH20B		5	NO MANUAL INTEGRATION
1920	0809b008.d	RH20LCSS1	RH20LCSS1	1	o-terph,
1939	0809b009.d	RH20LCSDS1	RH20LCSDS1	1	o-terph,
1958	0809b010.d	RH20MBS1	RH20MBS1	1	NO MANUAL INTEGRATION
2016	0809b011.d	RH20B	IT-ROB-CMP	1	o-terph, Triacon Surr,
2035	0809b012.d	DIESEL#2		1	o-terph,
2054	0809b013.d	MOIL#2		1	Triacon Surr,
2113	0809b014.d	RG94A	MW14-15-16	1	NO MANUAL INTEGRATION
2132	0809b015.d	RG94B	MW14-22.5-	1	NO MANUAL INTEGRATION
2151	0809b016.d	RG94C	MW13-10-11	1	NO MANUAL INTEGRATION
2210	0809b017.d	RG94D	MW13-14-14	1	NO MANUAL INTEGRATION
2229	0809b018.d	RG94E	MW13-18.5-	1	NO MANUAL INTEGRATION
2248	0809b019.d	RG94F	MW13-18.5-	1	NO MANUAL INTEGRATION
2307	0809b020.d	RG94G	MW12-5.5-7	1	NO MANUAL INTEGRATION
2326	0809b021.d	RG94H	MW12-8-9.5	1	NO MANUAL INTEGRATION
2345	0809b022.d	RG94HMS	MW12-8-9.5	1	o-terph,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100809.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0004	0809b023.d	RG94HMSD	MW12-8-9.5	1	o-terph,
0023	0809b024.d	RG94I	MW12-10-11	1	NO MANUAL INTEGRATION
0042	0809b025.d	RG94J	MW12-17.5-	1	NO MANUAL INTEGRATION
0101	0809b026.d	DIESEL#3		1	o-terph,
0121	0809b027.d	MOIL#3		1	Triacon Surr,
0140	0809b028.d	RG94MBW1	RG94MBW1	1	NO MANUAL INTEGRATION
0159	0809b029.d	RG94LCSW1	RG94LCSW1	1	o-terph,
0218	0809b030.d	RG94LCSDW1	RG94LCSDW1	1	o-terph,
0237	0809b031.d	RG94K	MW12-ER-08	1	NO MANUAL INTEGRATION
0256	0809b032.d	DIESEL#4		1	o-terph,
0315	0809b033.d	MOIL#4		1	Triacon Surr,

RG91: 91298

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b002.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RT
Client ID:
Injection: 09-AUG-2010 16:47
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.025	0.000	465166	330593	GAS (Tol-C12)	1081842	40
C8	1.318	0.000	193311	226231	DIESEL (C12-C24)	1546777	72
C10	2.854	0.000	449573	239670	M.OIL (C24-C38)	1934841	160
C12	3.464	0.000	435446	226763	AK-102 (C10-C25)	2051133	85
C14	3.923	0.000	416989	229670	AK-103 (C25-C36)	1705087	191
C16	4.320	0.000	420080	235018	OR.DIES (C10-C28)	2935976	139
C18	4.673	0.000	423609	241930	OR.MOIL (C28-C40)	1256875	111
C20	4.995	0.000	394907	240913			
C22	5.293	0.000	354648	239043	STODDARD (C8-C12)	751249	27
C24	5.602	0.000	332969	248719			
C25	5.762	0.000	467085	349707			
C26	5.923	0.000	316155	134585			
C28	6.242	0.000	300077	257394			
C32	6.855	0.000	271954	257314			
C34	7.141	0.000	248361	245645	CREOSOT (C8-C22)	2030967	318
Filter Peak	----						
C36	7.412	0.000	213857	219883	BUNKERC (C10-C38)	3981290	461
o-terph	4.761	0.000	1564395	888581	JET-A (C10-C18)	1267533	80
Triacon Surr	6.559	0.000	1023276	890651	IT.MOIL (C24-C40)	3037053	141

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	888581	44.6	99.1
Triacontane	890651	53.2	118.3

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b002.d

Date : 09-AUG-2010 16:47

Client ID:

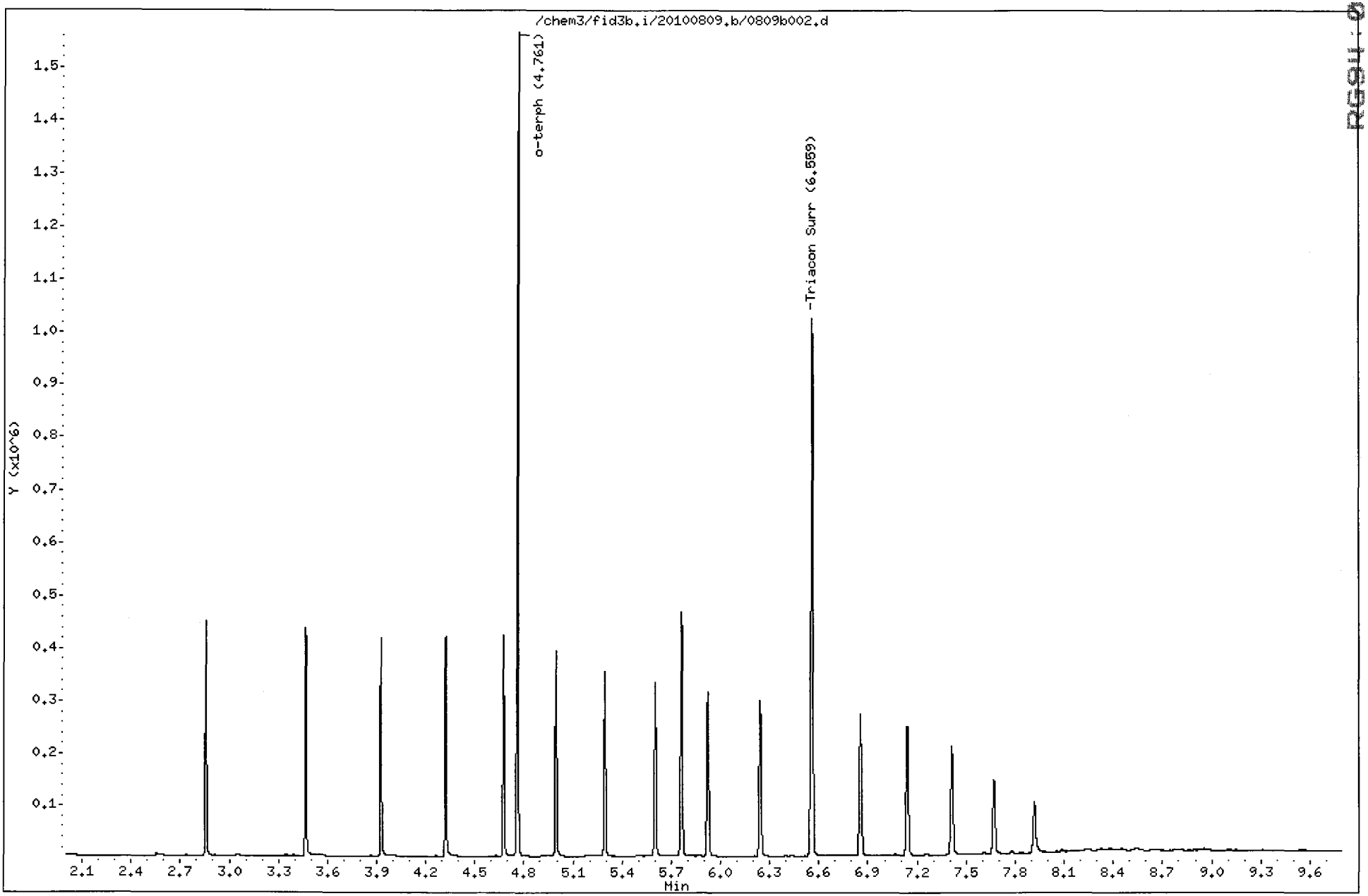
Sample Info: RT

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b003.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: IB
Client ID:
Injection: 09-AUG-2010 17:06
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	33372	1
C8	----				DIESEL (C12-C24)	36257	2
C10	2.857	0.003	786	1195	M.OIL (C24-C38)	119395	10
C12	3.464	0.000	505	356	AK-102 (C10-C25)	57724	2
C14	3.920	-0.003	286	172	AK-103 (C25-C36)	84604	9
C16	4.321	0.001	124	27	OR.DIES (C10-C28)	63215	3
C18	4.671	-0.002	157	83	OR.MOIL (C28-C40)	169056	15
C20	5.009	0.015	345	237			
C22	5.297	0.004	121	82	STODDARD (C8-C12)	33372	1
C24	5.603	0.001	54	12			
C25	5.765	0.004	67	31			
C26	5.928	0.005	145	136			
C28	6.246	0.004	565	715			
C32	6.864	0.009	2125	1887			
C34	7.139	-0.001	1634	1383	CREOSOT (C8-C22)	68985	11
Filter Peak	----						
C36	7.411	-0.001	1667	1731	BUNKERC (C10-C38)	177074	20
o-terph	4.762	0.002	1595321	911399	JET-A (C10-C18)	37804	2
Triacon Surr	6.559	0.001	858442	769396	IT.MOIL (C24-C40)	943988	44

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	911399	45.7	101.6
Triacontane	769396	46.0	102.2

8/11/10

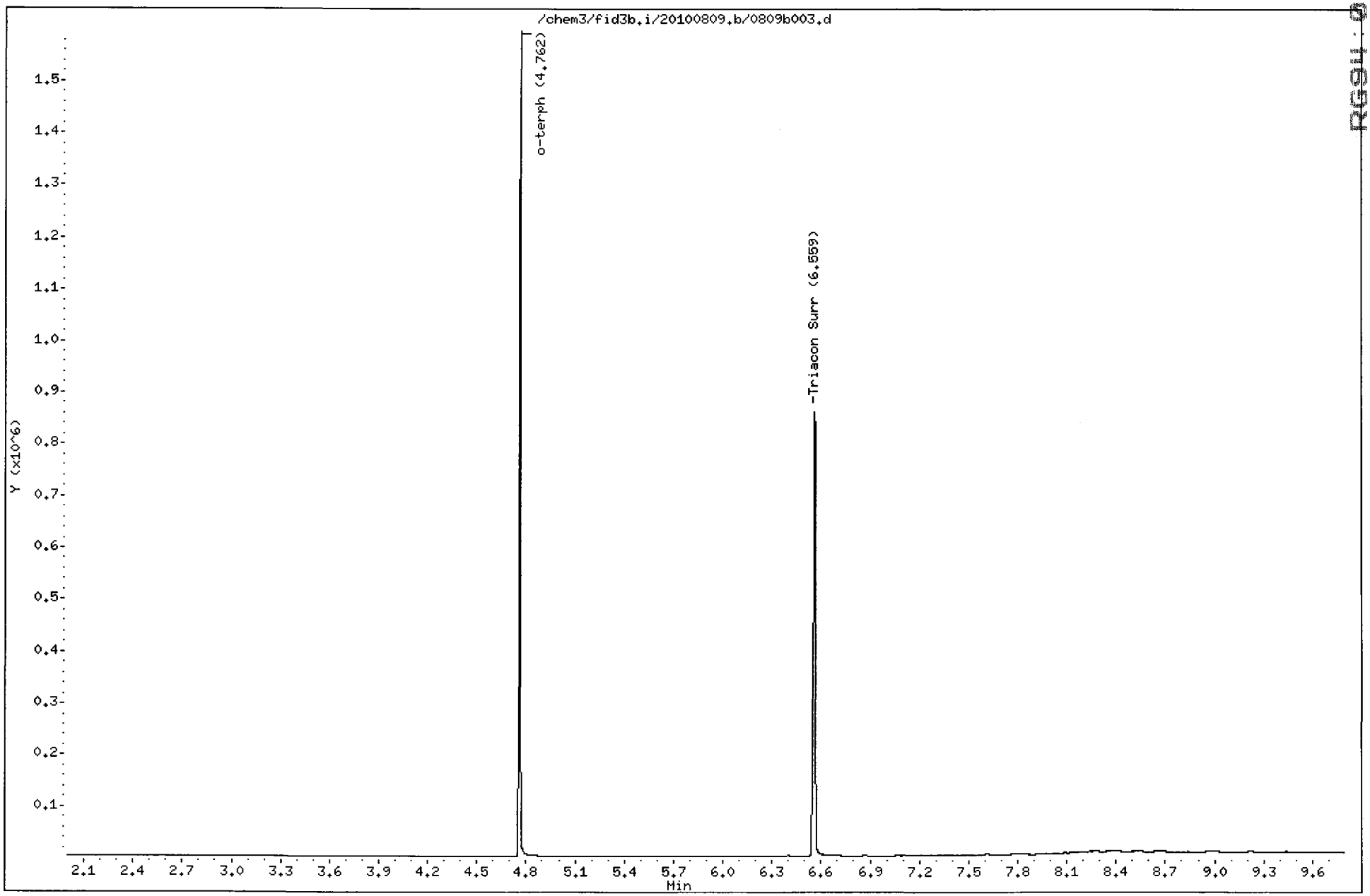
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b003.d
Date : 09-AUG-2010 17:06
Client ID:
Sample Info: IB

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b004.d ARI ID: DIESEL#1
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 09-AUG-2010 17:25
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	784535	29
C8	----				DIESEL (C12-C24)	5198945	243
C10	2.855	0.000	27744	20115	M.OIL (C24-C38)	118924	10
C12	3.465	0.001	70623	48976	AK-102 (C10-C25)	5843180	242
C14	3.923	-0.001	134227	121427	AK-103 (C25-C36)	82246	9
C16	4.318	-0.002	235213	219752	OR.DIES (C10-C28)	5883273	279
C18	4.673	0.000	202265	165278	OR.MOIL (C28-C40)	107294	10
C20	4.995	0.000	127775	107582			
C22	5.294	0.000	55288	51701	STODDARD (C8-C12)	784535	28
C24	5.602	0.000	11122	10485			
C25	5.769	0.007	4256	4368			
C26	5.924	0.001	1307	207			
C28	6.243	0.001	306	41			
C32	6.848	-0.007	409	118			
C34	7.141	0.000	521	263	CREOSOT (C8-C22)	5808880	908
Filter Peak	----						
C36	7.413	0.000	1412	251	BUNKERC (C10-C38)	5946162	688
o-terph	4.762	0.001	1702718	1072760	JET-A (C10-C18)	4425364	279
Triacon Surr	6.556	-0.002	353	224	IT.MOIL (C24-C40)	163553	8

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1072760	53.8	119.6
Triacontane	224	0.0	0.0

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b004.d

Date : 09-AUG-2010 17:25

Client ID:

Sample Info: DIESEL#1

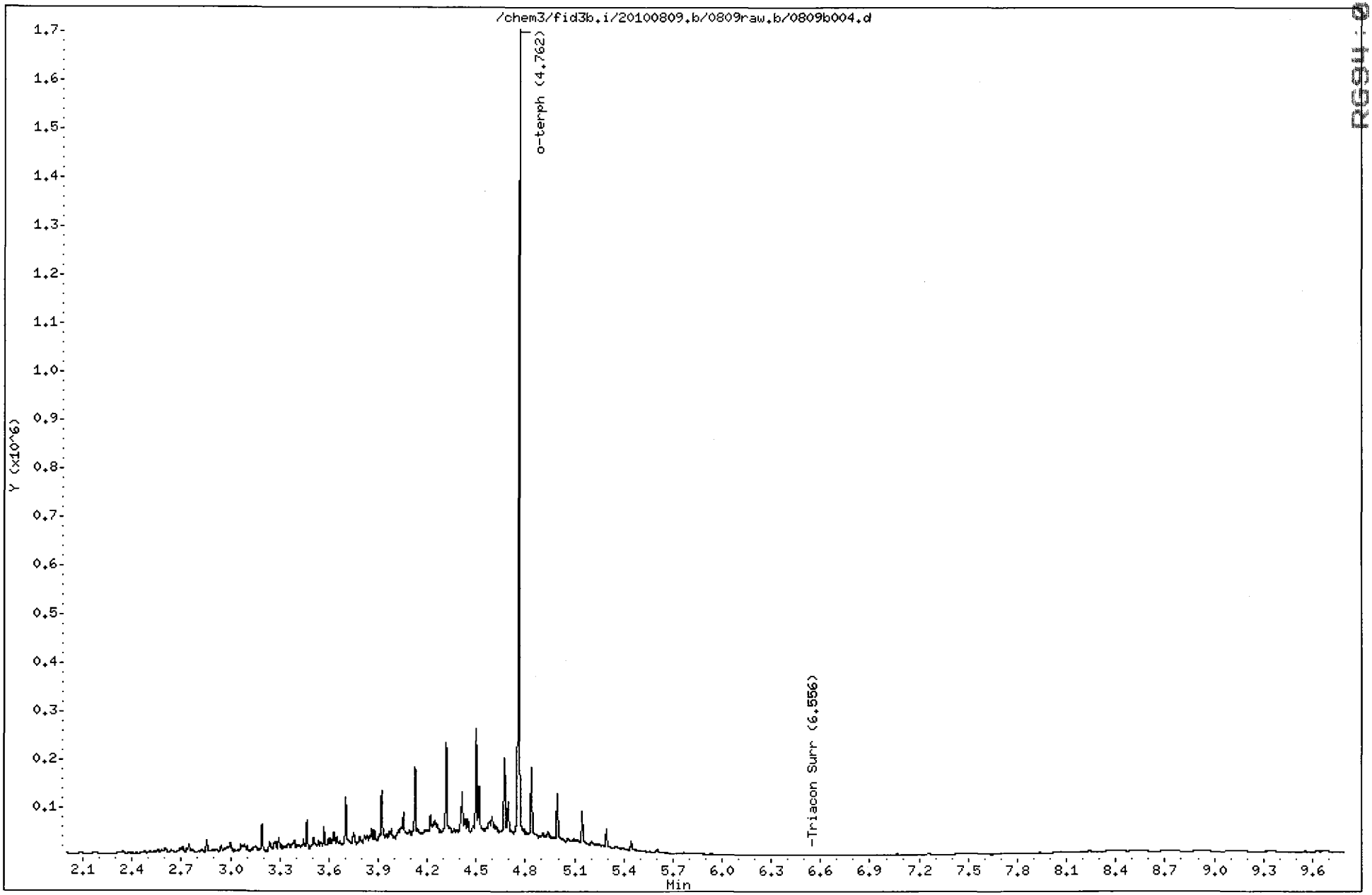
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RSGL-01301



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b004.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: DIESEL#1
Client ID:
Injection: 09-AUG-2010 17:25
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	784535	29
C8	----				DIESEL (C12-C24)	5394353	252
C10	2.855	0.000	27744	20115	M.OIL (C24-C38)	118924	10
C12	3.465	0.001	70623	48976	AK-102 (C10-C25)	6038589	251
C14	3.923	-0.001	134227	121427	AK-103 (C25-C36)	82246	9
C16	4.318	-0.002	235213	219752	OR.DIES (C10-C28)	6078682	288
C18	4.673	0.000	202265	165278	OR.MOIL (C28-C40)	107294	10
C20	4.995	0.000	127775	107582			
C22	5.294	0.000	55288	51701	STODDARD (C8-C12)	784535	28
C24	5.602	0.000	11122	10485			
C25	5.769	0.007	4256	4368			
C26	5.924	0.001	1307	207			
C28	6.243	0.001	306	41			
C32	6.848	-0.007	409	118			
C34	7.141	0.000	521	263	CREOSOT (C8-C22)	6004288	939
Filter Peak	----						
C36	7.413	0.000	1412	251	BUNKERC (C10-C38)	6141571	711
o-terph	4.762	0.001	1631706	878351	JET-A (C10-C18)	4425364	279
Triacon Surr	6.556	-0.002	353	224	IT.MOIL (C24-C40)	163553	8

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	878351	44.1	97.9
Triacontane	224	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b004.d

Date : 09-AUG-2010 17:25

Client ID:

Sample Info: DIESEL#1

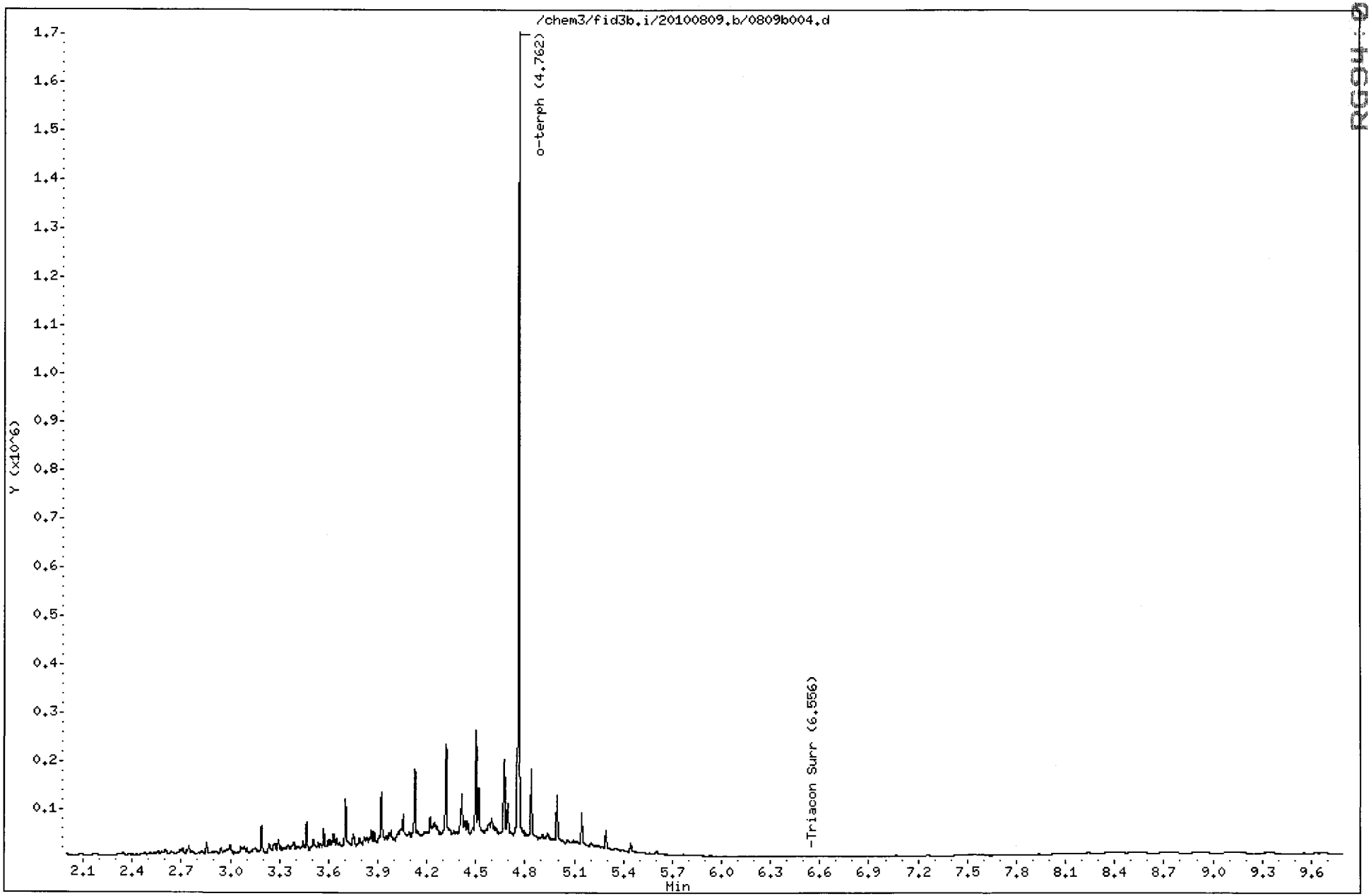
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RSCH-01366



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b005.d ARI ID: MOIL#1
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 09-AUG-2010 17:44
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	31995	1
C8	----				DIESEL (C12-C24)	679056	32
C10	2.857	0.002	818	1286	M.OIL (C24-C38)	5527711	458
C12	3.461	-0.003	514	309	AK-102 (C10-C25)	818836	34
C14	3.925	0.001	353	67	AK-103 (C25-C36)	4815186	539
C16	4.325	0.005	240	64	OR.DIES (C10-C28)	2174483	103
C18	4.676	0.002	625	330	OR.MOIL (C28-C40)	4423037	392
C20	4.996	0.002	4108	646			
C22	5.293	0.000	14763	4034	STODDARD (C8-C12)	31995	1
C24	5.600	-0.002	29019	15721			
C25	5.762	0.000	35565	15660			
C26	5.924	0.001	38887	7619			
C28	6.245	0.003	46892	12752			
C32	6.855	0.000	57505	44624			
C34	7.139	-0.002	57353	19166	CREOSOT (C8-C22)	290144	45
Filter Peak	----						
C36	7.413	0.001	47353	15468	BUNKERC (C10-C38)	6229310	721
o-terph	4.760	-0.001	1465	1613	JET-A (C10-C18)	52231	3
Triacon Surr	6.558	-0.001	896666	927919	IT.MOIL (C24-C40)	6823840	318

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1613	0.1	0.2
Triacontane	927919	55.5	123.3

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b005.d

Page 1

Date : 09-AUG-2010 17:44

Client ID:

Instrument: fid3b.i

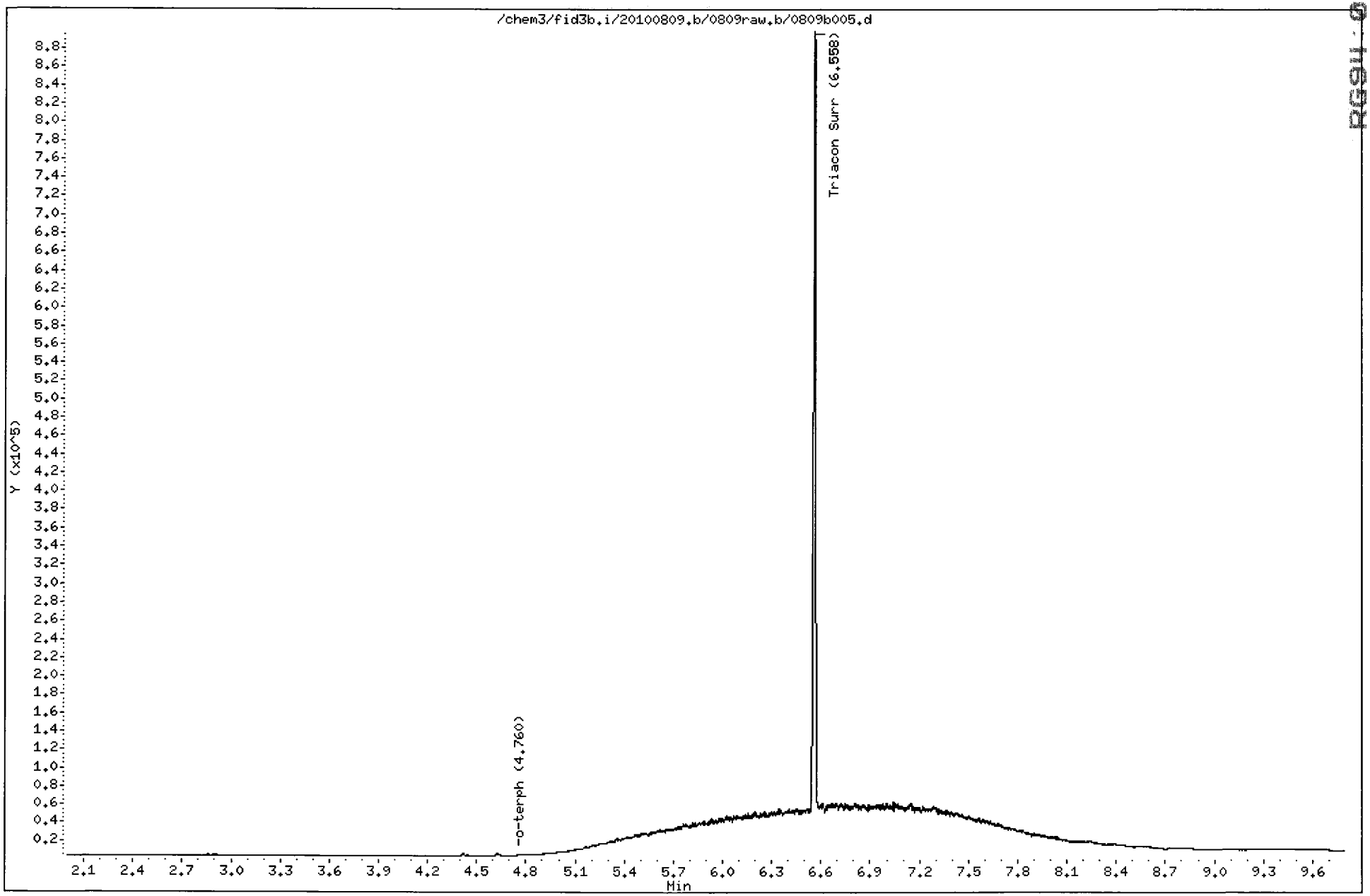
Sample Info: MOIL#1

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RGSL-01308



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b005.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: MOIL#1
Client ID:
Injection: 09-AUG-2010 17:44
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	31995	1
C8	----				DIESEL (C12-C24)	679056	32
C10	2.857	0.002	818	1286	M.OIL (C24-C38)	5684569	471
C12	3.461	-0.003	514	309	AK-102 (C10-C25)	818836	34
C14	3.925	0.001	353	67	AK-103 (C25-C36)	4972044	557
C16	4.325	0.005	240	64	OR.DIES (C10-C28)	2174483	103
C18	4.676	0.002	625	330	OR.MOIL (C28-C40)	4579896	406
C20	4.996	0.002	4108	646			
C22	5.293	0.000	14763	4034	STODDARD (C8-C12)	31995	1
C24	5.600	-0.002	29019	15721			
C25	5.762	0.000	35565	15660			
C26	5.924	0.001	38887	7619			
C28	6.245	0.003	46892	12752			
C32	6.855	0.000	57505	44624			
C34	7.139	-0.002	57353	19166	CREOSOT (C8-C22)	290144	45
Filter Peak	----						
C36	7.413	0.001	47353	15468	BUNKERC (C10-C38)	6386168	739
o-terph	4.760	-0.001	1465	1613	JET-A (C10-C18)	52231	3
Triacon Surr	6.558	-0.001	840532	772096	IT.MOIL (C24-C40)	6824875	318

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1613	0.1	0.2
Triacontane	772096	46.2	102.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not
2. Poor Chro
3. Baseline
4. Totals Ga
5. Other
Analyst

MANUAL ADJUSTMENTS
1. Peak
2. Poo
3. Bas
4. Tota
5. Oth
Analyst

8/11/10

RG94:01309

Data File: /chem3/fid3b.i/20100809.b/0809b005.d

Date : 09-AUG-2010 17:44

Client ID:

Sample Info: MOIL#1

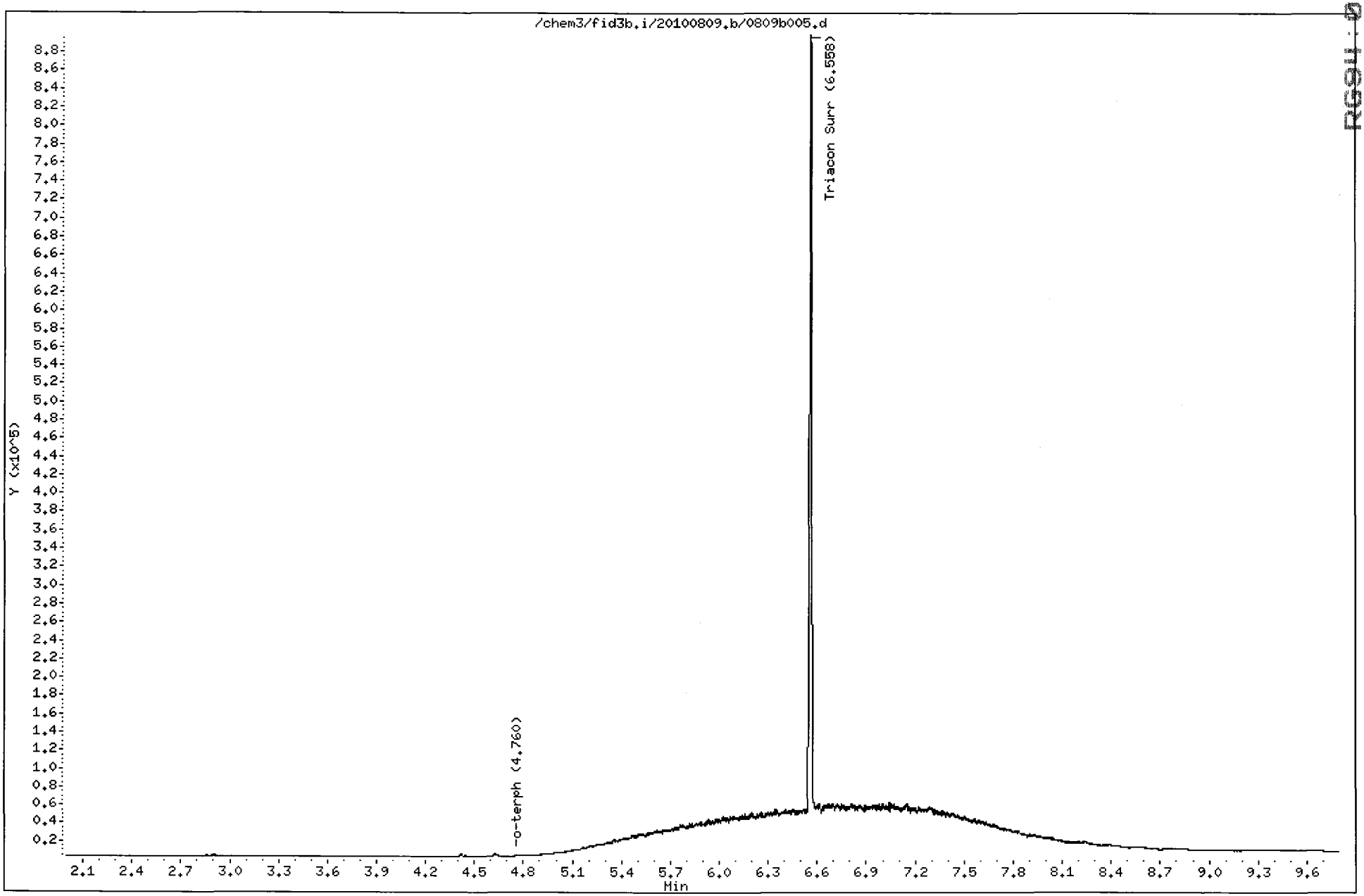
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RSQL-91316



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b008.d ARI ID: RH20LCSS1
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID: RH20LCSS1
Instrument: fid3b.i Injection: 09-AUG-2010 19:20
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3511812	128
C8	----				DIESEL (C12-C24)	24724961	1156
C10	2.855	0.001	126627	89905	M.OIL (C24-C38)	356454	30
C12	3.466	0.002	358132	249220	AK-102 (C10-C25)	27688167	1149
C14	3.923	0.000	644583	549949	AK-103 (C25-C36)	264644	30
C16	4.320	0.001	1134380	947983	OR.DIES (C10-C28)	27895221	1323
C18	4.677	0.004	1051933	841575	OR.MOIL (C28-C40)	111762	10
C20	4.998	0.003	674841	489579			
C22	5.294	0.001	307619	250874	STODDARD (C8-C12)	3511812	127
C24	5.601	-0.001	79701	65189			
C25	5.762	0.001	34867	47784			
C26	5.924	0.001	13662	16456			
C28	6.244	0.002	2744	4453			
C32	6.863	0.008	1752	2097			
C34	7.137	-0.004	962	1023	CREOSOT (C8-C22)	27353071	4277
Filter Peak	----						
C36	7.409	-0.003	1131	222	BUNKERC (C10-C38)	27974729	3237
o-terph	4.763	0.003	2096856	1687107	JET-A (C10-C18)	20599218	1300
Triacon Surr	6.561	0.002	872713	824401	IT.MOIL (C24-C40)	1213109	56

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1687107	84.6	188.1
Triacontane	824401	49.3	109.5

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

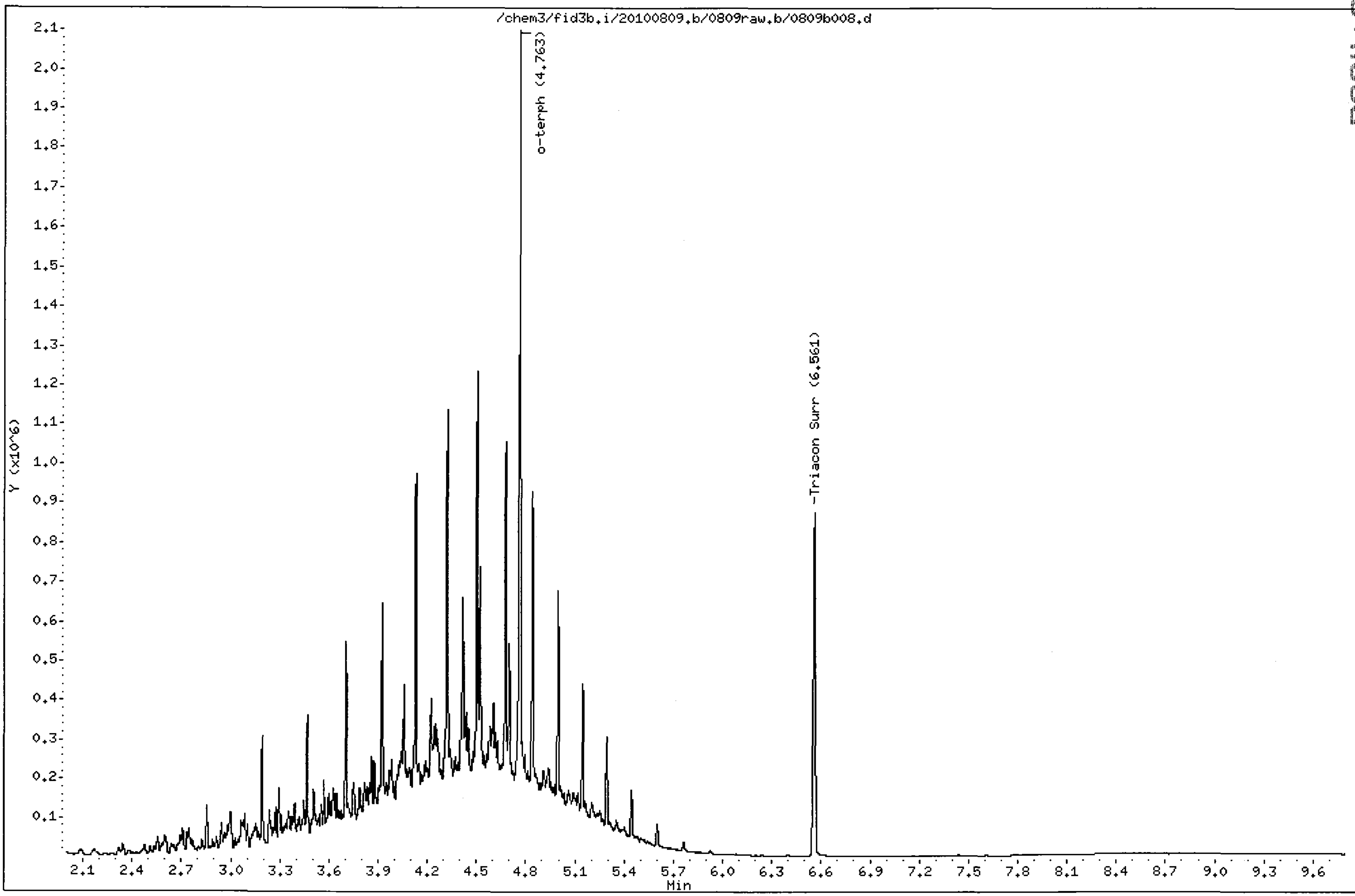
Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b008.d
Date : 09-AUG-2010 19:20
Client ID: RH20LCSS1
Sample Info: RH20LCSS1

Instrument: fid3b.i

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b008.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RH20LCSS1
Client ID: RH20LCSS1
Injection: 09-AUG-2010 19:20
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3511812	128
C8	----				DIESEL (C12-C24)	25420386	1188
C10	2.855	-0.002	126627	89905	M.OIL (C24-C38)	356454	30
C12	3.466	0.001	358132	249220	AK-102 (C10-C25)	28365932	1177
C14	3.923	-0.001	644583	549949	AK-103 (C25-C36)	264644	30
C16	4.320	0.002	1134380	947983	OR.DIES (C10-C28)	28572985	1355
C18	4.677	0.003	1051933	841575	OR.MOIL (C28-C40)	109773	10
C20	4.998	0.002	674841	489579			
C22	5.294	0.001	307619	250874	STODDARD (C8-C12)	3511812	127
C24	5.601	0.000	79701	65189			
C25	5.762	0.000	34867	47784			
C26	5.924	0.003	13662	16456			
C28	6.244	0.003	2744	4453			
C32	6.863	0.009	1752	2097			
C34	7.137	-0.001	962	1023	CREOSOT (C8-C22)	28031303	4383
Filter Peak	----						
C36	7.415	0.003	1205	487	BUNKERC (C10-C38)	28652494	3315
o-terph	4.763	0.000	1809055	996503	JET-A (C10-C18)	20682060	1305
Triacon Surr	6.561	-0.002	872713	824401	IT.MOIL (C24-C40)	1211120	56

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	996503	50.0	111.1
Triacontane	824401	49.3	109.5

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b008.d

Date : 09-AUG-2010 19:20

Client ID: RH20LCSS1

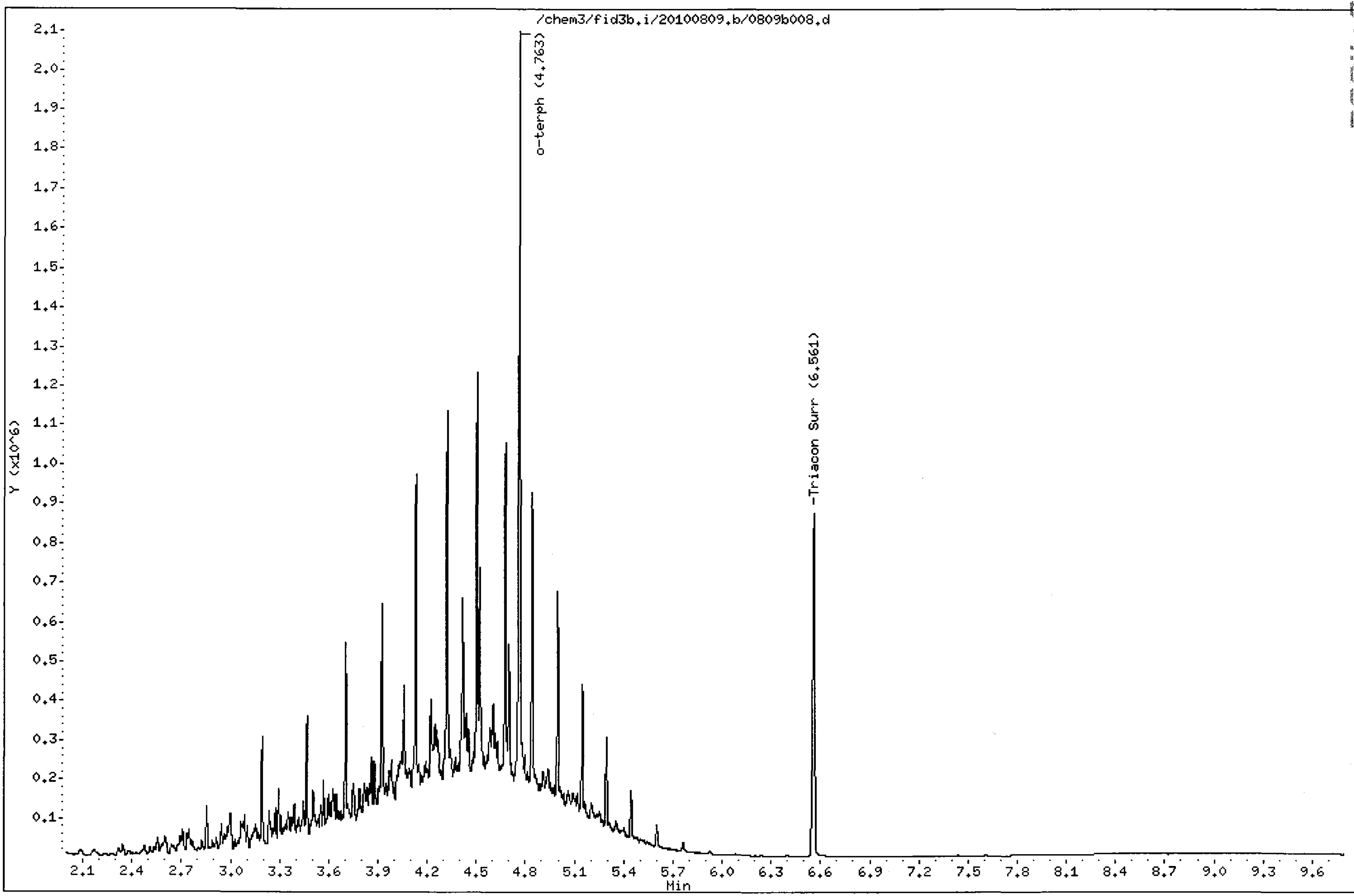
Sample Info: RH20LCSS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b009.d ARI ID: RH20LCSDS1
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID: RH20LCSDS1
Instrument: fid3b.i Injection: 09-AUG-2010 19:39
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3471384	127
C8	----				DIESEL (C12-C24)	24728888	1156
C10	2.856	0.002	120167	89229	M.OIL (C24-C38)	353353	29
C12	3.466	0.002	366551	249358	AK-102 (C10-C25)	27631575	1146
C14	3.925	0.001	660599	524553	AK-103 (C25-C36)	262070	29
C16	4.323	0.003	1157653	953567	OR.DIES (C10-C28)	27841918	1320
C18	4.677	0.004	1008302	798113	OR.MOIL (C28-C40)	101006	9
C20	4.997	0.002	689141	535025			
C22	5.292	-0.001	298940	244050	STODDARD (C8-C12)	3471384	125
C24	5.601	-0.001	82524	92002			
C25	5.762	0.000	33772	49190			
C26	5.924	0.001	13232	20251			
C28	6.242	0.000	2735	2794			
C32	6.864	0.009	1709	2999			
C34	7.137	-0.004	787	985	CREOSOT (C8-C22)	27269480	4264
Filter Peak	----						
C36	7.409	-0.003	918	216	BUNKERC (C10-C38)	27914414	3230
o-terph	4.764	0.003	1983053	1728004	JET-A (C10-C18)	20442350	1290
Triacon Surr	6.560	0.001	993309	816351	IT.MOIL (C24-C40)	1198213	56

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1728004	86.7	192.6
Triacontane	816351	48.8	108.5

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b009.d

Page 1

Date : 09-AUG-2010 19:39

Client ID: RH20LCSDS1

Instrument: fid3b.i

Sample Info: RH20LCSDS1

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

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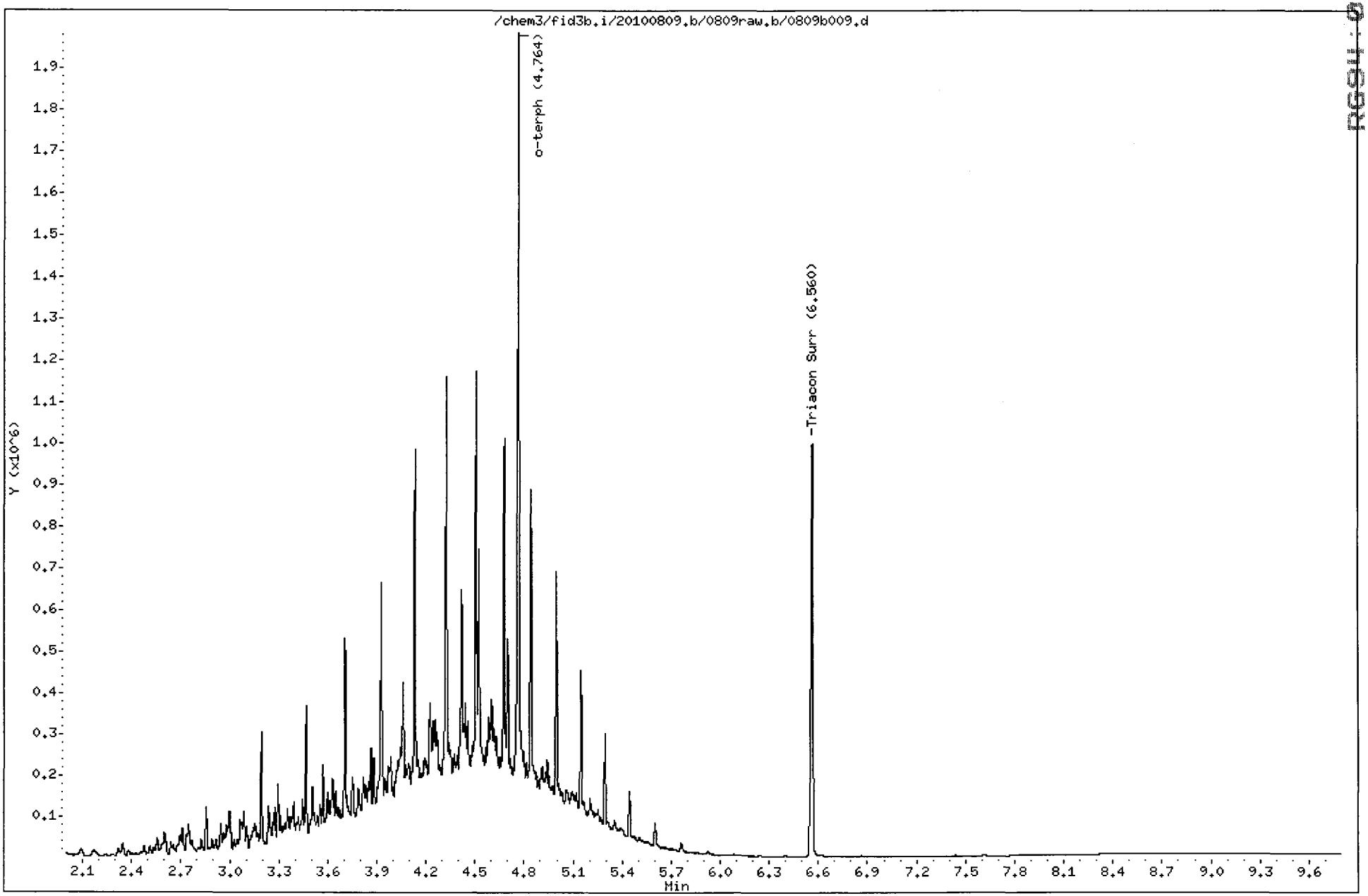


Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b009.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RH20LCSDS1
Client ID: RH20LCSDS1
Injection: 09-AUG-2010 19:39
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3531437	129
C8	----				DIESEL (C12-C24)	25457544	1190
C10	2.856	0.000	120167	89229	M.OIL (C24-C38)	353353	29
C12	3.466	0.001	366551	249358	AK-102 (C10-C25)	28401581	1178
C14	3.925	0.001	660599	524553	AK-103 (C25-C36)	262070	29
C16	4.323	0.005	1157653	953567	OR.DIES (C10-C28)	28611924	1357
C18	4.677	0.003	1008302	798113	OR.MOIL (C28-C40)	101006	9
C20	4.997	0.002	689141	535025			
C22	5.292	0.000	298940	244050	STODDARD (C8-C12)	3531437	128
C24	5.601	0.001	82524	92002			
C25	5.762	-0.001	33772	49190			
C26	5.924	0.003	13232	20251			
C28	6.242	0.002	2735	2794			
C32	6.864	0.011	1709	2999			
C34	7.137	-0.001	787	985	CREOSOT (C8-C22)	28058189	4387
Filter Peak	----						
C36	7.409	-0.004	918	216	BUNKERC (C10-C38)	28684420	3319
o-terph	4.764	0.001	1681917	944084	JET-A (C10-C18)	20423647	1289
Triacon Surr	6.560	-0.002	993309	816351	IT.MOIL (C24-C40)	1198213	56

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	944084	47.4	105.2
Triacontane	816351	48.8	108.5

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other _____
Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b009.d

Date : 09-AUG-2010 19:39

Client ID: RH20LCSDS1

Sample Info: RH20LCSDS1

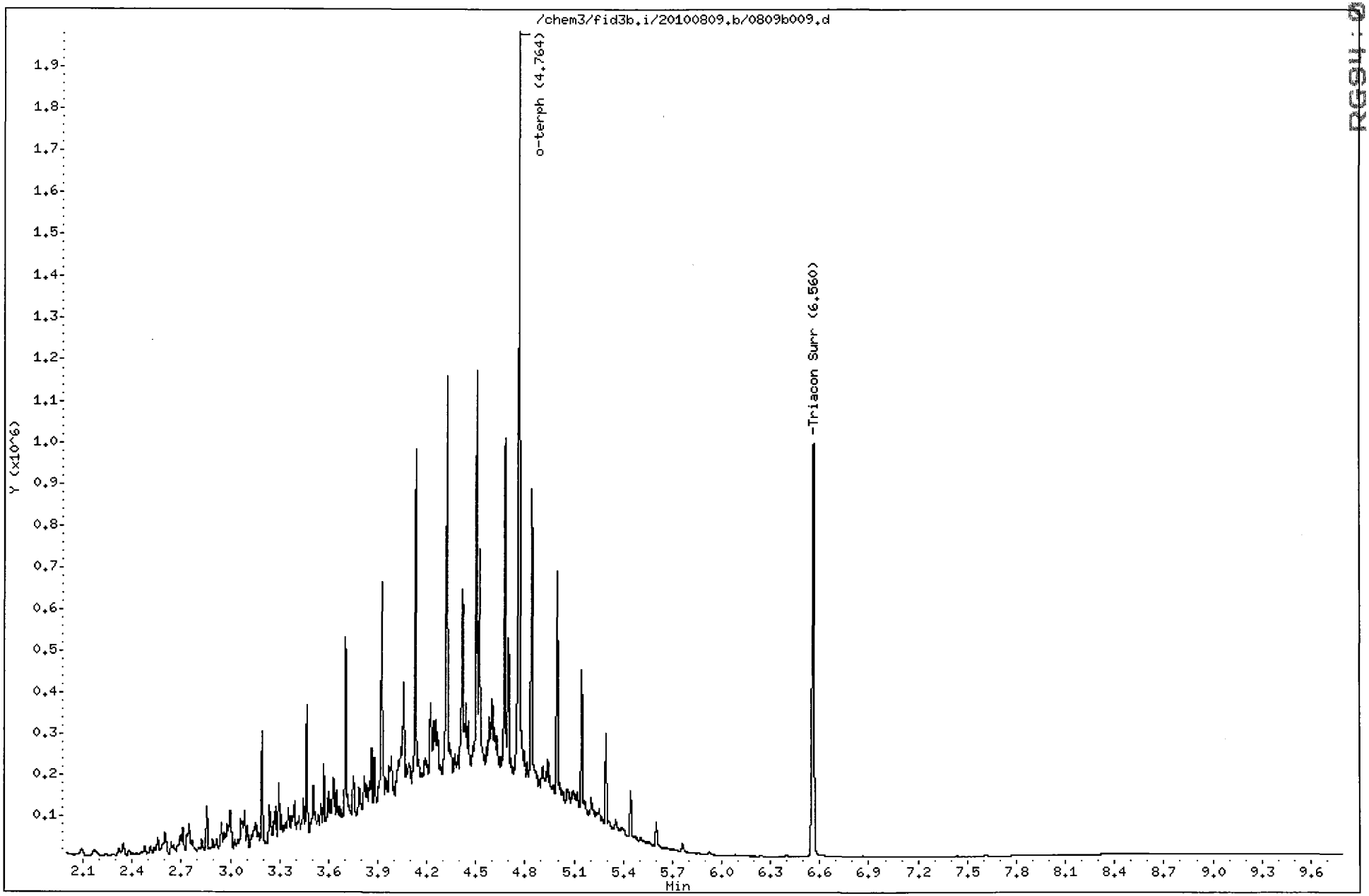
Instrument: fid3b.i

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RGSL: 91319



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b010.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RH20MBS1
Client ID: RH20MBS1
Injection: 09-AUG-2010 19:58
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	80575	3
C8	----				DIESEL (C12-C24)	86087	4
C10	2.857	0.001	1530	1887	M.OIL (C24-C38)	78708	7
C12	3.462	-0.004	2142	825	AK-102 (C10-C25)	148341	6
C14	3.922	-0.002	733	252	AK-103 (C25-C36)	54396	6
C16	4.309	-0.010	696	483	OR.DIES (C10-C28)	151591	7
C18	4.675	0.001	493	480	OR.MOIL (C28-C40)	105759	9
C20	5.000	0.005	596	277			
C22	5.293	0.000	404	156	STODDARD (C8-C12)	80575	3
C24	5.600	-0.001	222	154			
C25	5.762	-0.001	143	59			
C26	5.924	0.003	153	50			
C28	6.244	0.003	421	429			
C32	6.849	-0.004	787	517			
C34	7.141	0.003	881	361	CREOSOT (C8-C22)	162452	25
Filter Peak	----						
C36	7.414	0.002	1169	484	BUNKERC (C10-C38)	226794	26
o-terph	4.763	-0.001	1591306	952758	JET-A (C10-C18)	122741	8
Triacon Surr	6.560	-0.002	898041	776098	IT.MOIL (C24-C40)	885361	41

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	952758	47.8	106.2
Triacontane	776098	46.4	103.1

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b010.d

Date : 09-AUG-2010 19:58

Client ID: RH20MBS1

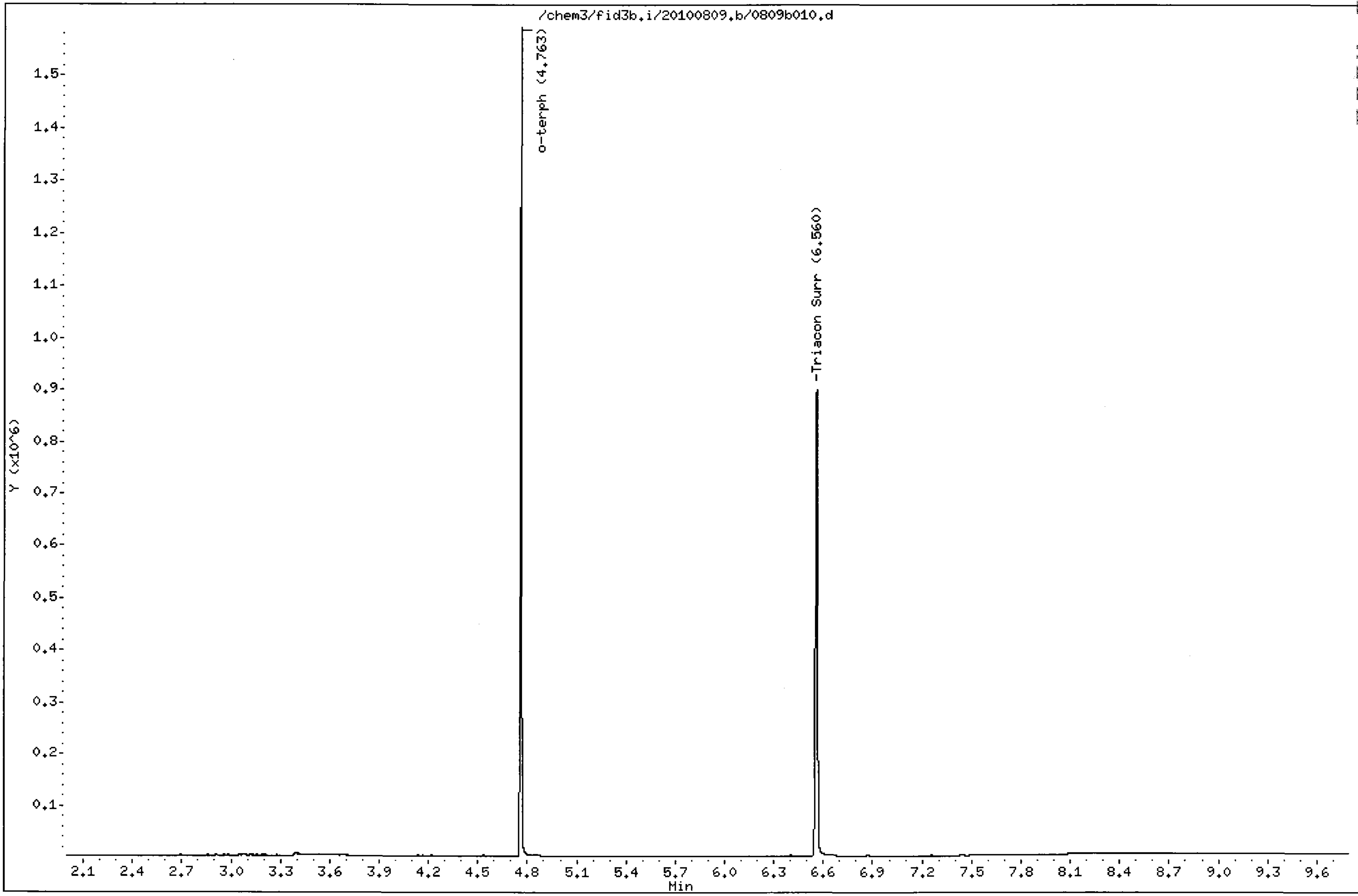
Sample Info: RH20MBS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b012.d ARI ID: DIESEL#2
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 09-AUG-2010 20:35
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	775017	28
C8	----				DIESEL (C12-C24)	5148873	241
C10	2.855	0.001	28177	20180	M.OIL (C24-C38)	124127	10
C12	3.465	0.001	68966	49442	AK-102 (C10-C25)	5787757	240
C14	3.923	0.000	131189	108180	AK-103 (C25-C36)	79845	9
C16	4.319	-0.001	231628	186220	OR.DIES (C10-C28)	5830723	276
C18	4.673	0.000	210532	162051	OR.MOIL (C28-C40)	109042	10
C20	4.995	0.001	126545	102319			
C22	5.293	0.000	52560	44071	STODDARD (C8-C12)	775017	28
C24	5.602	0.000	11326	16049			
C25	5.758	-0.003	3189	1231			
C26	5.925	0.002	1349	292			
C28	6.242	0.000	313	53			
C32	6.843	-0.012	347	75			
C34	7.142	0.001	917	609	CREOSOT (C8-C22)	5751180	899
Filter Peak	----						
C36	7.415	0.003	1293	230	BUNKERC (C10-C38)	5897500	682
o-terph	4.762	0.001	1677296	1024298	JET-A (C10-C18)	4369492	276
Triacon Surr	6.557	-0.001	168	53	IT.MOIL (C24-C40)	166446	8

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1024298	51.4	114.2
Triacontane	53	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b012.d

Page 1

Date : 09-AUG-2010 20:35

Client ID:

Instrument: fid3b.i

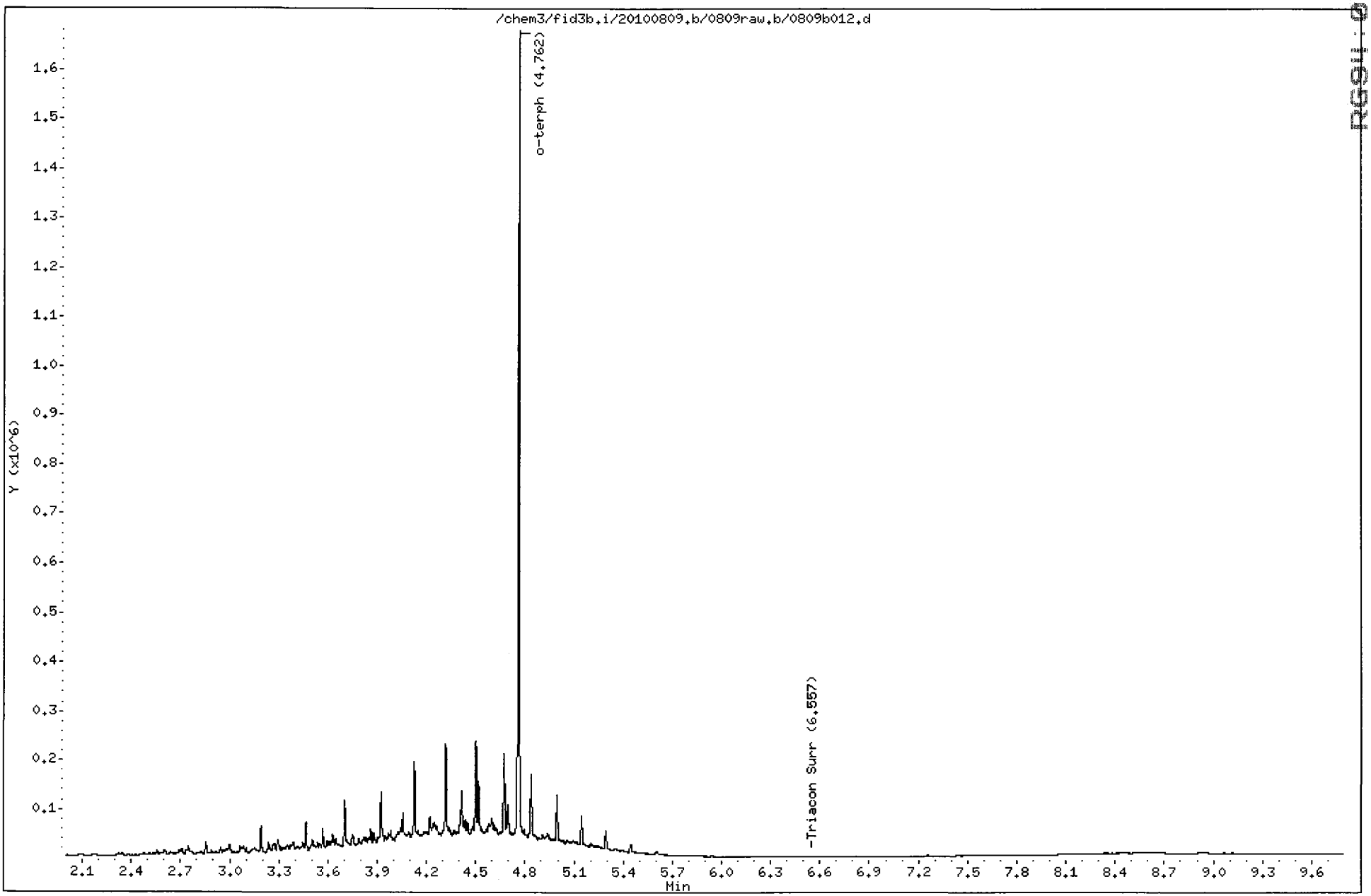
Sample Info: DIESEL#2

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RGU-01322



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b012.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: DIESEL#2
Client ID:
Injection: 09-AUG-2010 20:35
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	775017	28
C8	----				DIESEL (C12-C24)	5295723	247
C10	2.855	0.001	28177	20180	M.OIL (C24-C38)	124127	10
C12	3.465	0.001	68966	49442	AK-102 (C10-C25)	5934607	246
C14	3.923	0.000	131189	108180	AK-103 (C25-C36)	79845	9
C16	4.319	-0.001	231628	186220	OR.DIES (C10-C28)	5977573	283
C18	4.673	0.000	210532	162051	OR.MOIL (C28-C40)	109042	10
C20	4.995	0.001	126545	102319			
C22	5.293	0.000	52560	44071	STODDARD (C8-C12)	775017	28
C24	5.602	0.000	11326	16049			
C25	5.758	-0.003	3189	1231			
C26	5.925	0.002	1349	292			
C28	6.242	0.000	313	53			
C32	6.843	-0.012	347	75			
C34	7.142	0.001	917	609	CREOSOT (C8-C22)	5898030	922
Filter Peak	----						
C36	7.415	0.003	1293	230	BUNKERC (C10-C38)	6044350	699
o-terph	4.762	0.001	1613517	878511	JET-A (C10-C18)	4369492	276
Triacon Surr	6.557	-0.001	168	53	IT.MOIL (C24-C40)	166446	8

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	878511	44.1	97.9
Triacontane	53	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date _____

RG94 : 01323

Data File: /chem3/fid3b.i/20100809.b/0809b012.d

Date : 09-AUG-2010 20:35

Client ID:

Sample Info: DIESEL#2

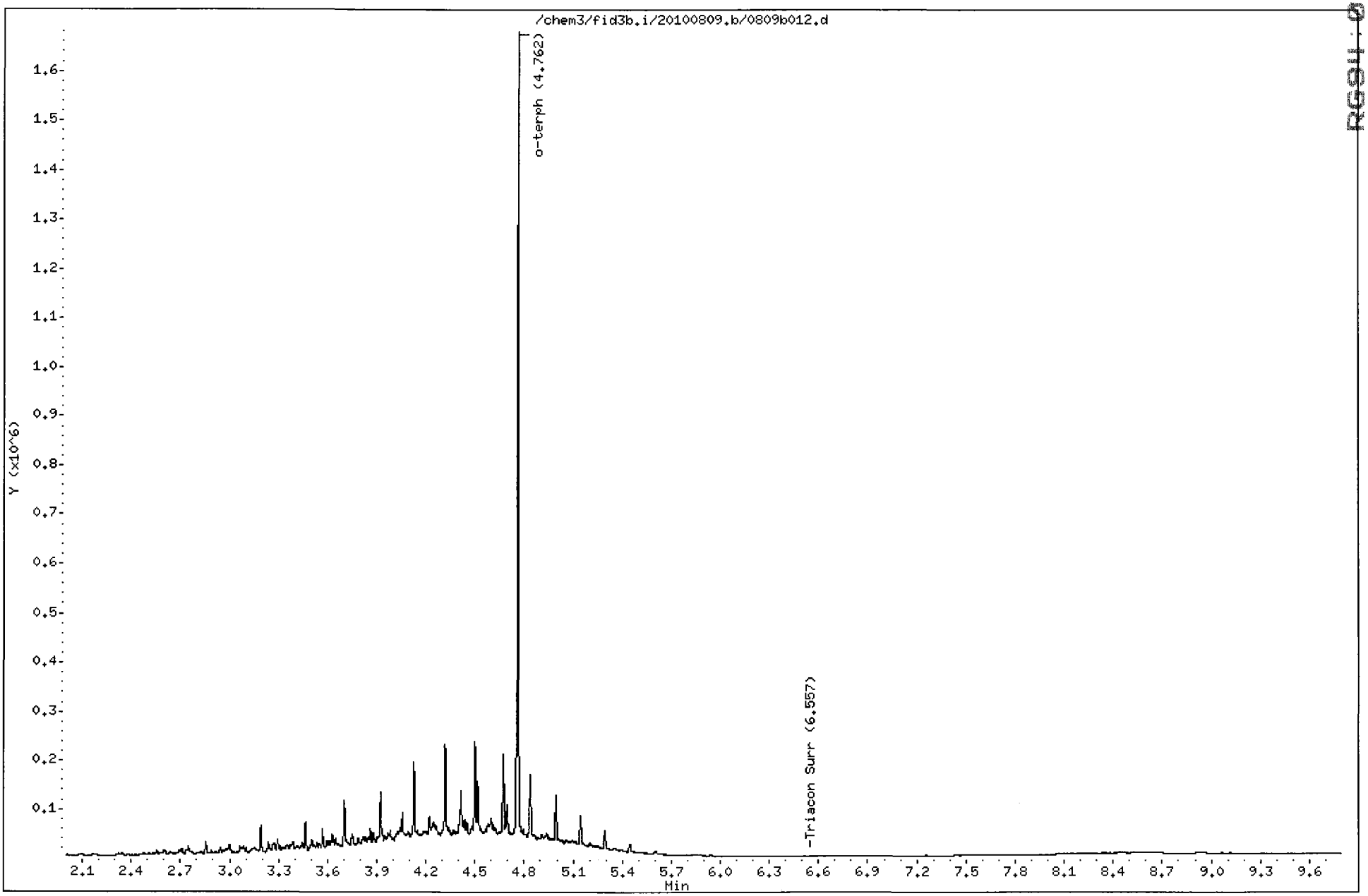
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG91-013214



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b013.d ARI ID: MOIL#2
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 09-AUG-2010 20:54
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	38709	1
C8	----				DIESEL (C12-C24)	683144	32
C10	2.857	0.003	946	1197	M.OIL (C24-C38)	5538584	458
C12	3.461	-0.003	607	529	AK-102 (C10-C25)	812993	34
C14	3.925	0.002	408	55	AK-103 (C25-C36)	4846102	543
C16	4.321	0.001	285	107	OR.DIES (C10-C28)	2166618	103
C18	4.674	0.001	621	169	OR.MOIL (C28-C40)	4474067	397
C20	4.995	0.000	4088	879			
C22	5.291	-0.002	14601	5125	STODDARD (C8-C12)	38709	1
C24	5.602	0.000	28092	13787			
C25	5.761	-0.001	33988	9227			
C26	5.925	0.002	39669	8398			
C28	6.240	-0.002	48898	36503			
C32	6.857	0.002	57360	53519			
C34	7.139	-0.002	56366	26404	CREOSOT (C8-C22)	293922	46
Filter Peak	----						
C36	7.411	-0.001	48418	25467	BUNKERC (C10-C38)	6248308	723
o-terph	4.762	0.001	1388	1743	JET-A (C10-C18)	57765	4
Triacon Surr	6.561	0.002	991509	906688	IT.MOIL (C24-C40)	6837649	318

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1743	0.1	0.2
Triacontane	906688	54.2	120.5

8/11/10

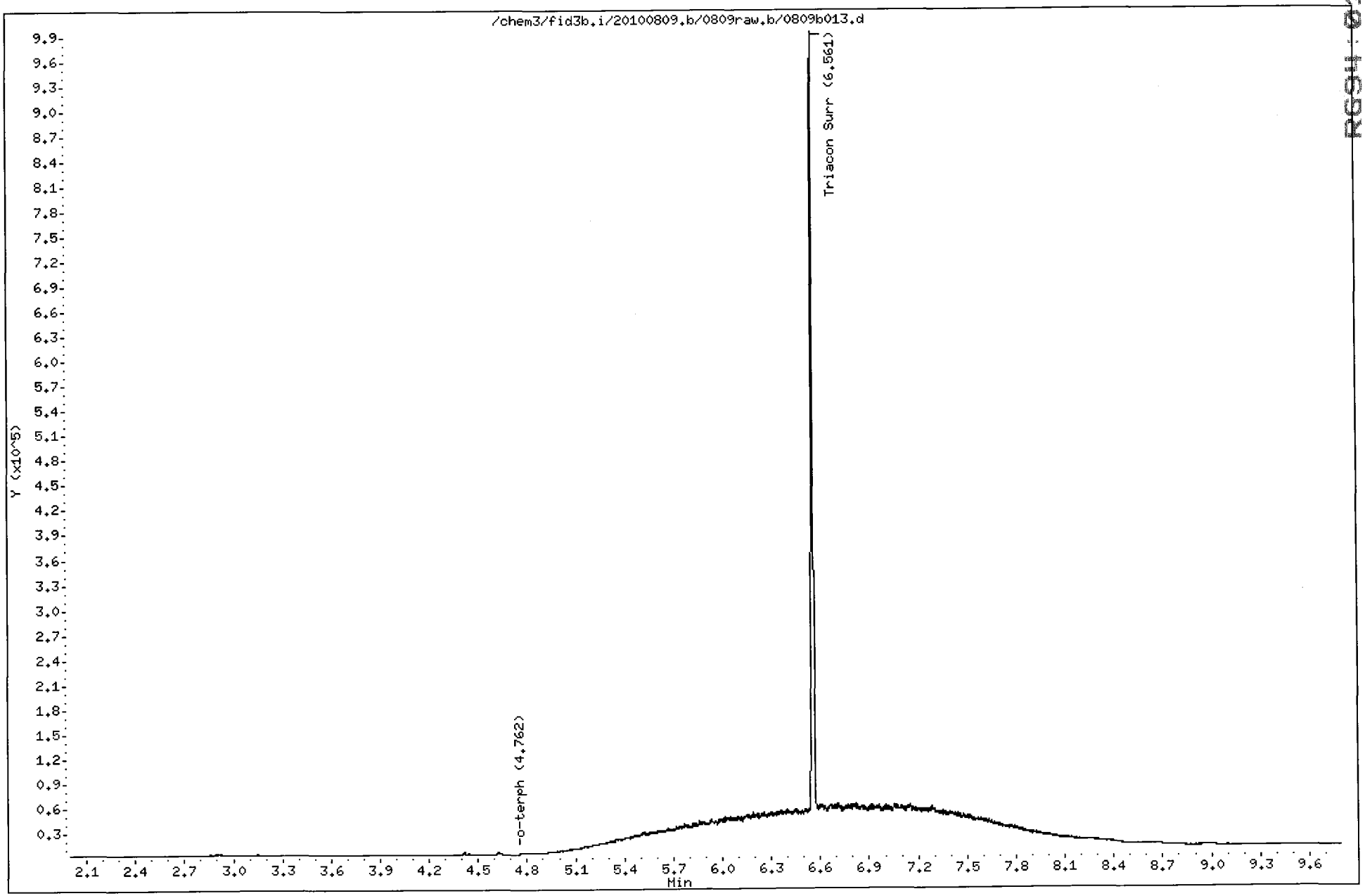
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b013.d
Date : 09-AUG-2010 20:54
Client ID:
Sample Info: MOIL#2

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b013.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: MOIL#2
Client ID:
Injection: 09-AUG-2010 20:54
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	38709	1
C8	----				DIESEL (C12-C24)	683144	32
C10	2.857	0.003	946	1197	M.OIL (C24-C38)	5673055	470
C12	3.461	-0.003	607	529	AK-102 (C10-C25)	812993	34
C14	3.925	0.002	408	55	AK-103 (C25-C36)	4980572	558
C16	4.321	0.001	285	107	OR.DIES (C10-C28)	2166618	103
C18	4.674	0.001	621	169	OR.MOIL (C28-C40)	4608538	409
C20	4.995	0.000	4088	879			
C22	5.291	-0.002	14601	5125	STODDARD (C8-C12)	38709	1
C24	5.602	0.000	28092	13787			
C25	5.761	-0.001	33988	9227			
C26	5.925	0.002	39669	8398			
C28	6.240	-0.002	48898	36503			
C32	6.857	0.002	57360	53519			
C34	7.139	-0.002	56366	26404	CREOSOT (C8-C22)	293922	46
Filter Peak	----						
C36	7.411	-0.001	48418	25467	BUNKERC (C10-C38)	6382779	738
o-terph	4.762	0.001	1388	1743	JET-A (C10-C18)	57765	4
Triacon Surr	6.561	0.002	936831	773274	IT.MOIL (C24-C40)	6838705	318

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1743	0.1	0.2
Triacontane	773274	46.2	102.7

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b013.d

Date : 09-AUG-2010 20:54

Client ID:

Sample Info: MOIL#2

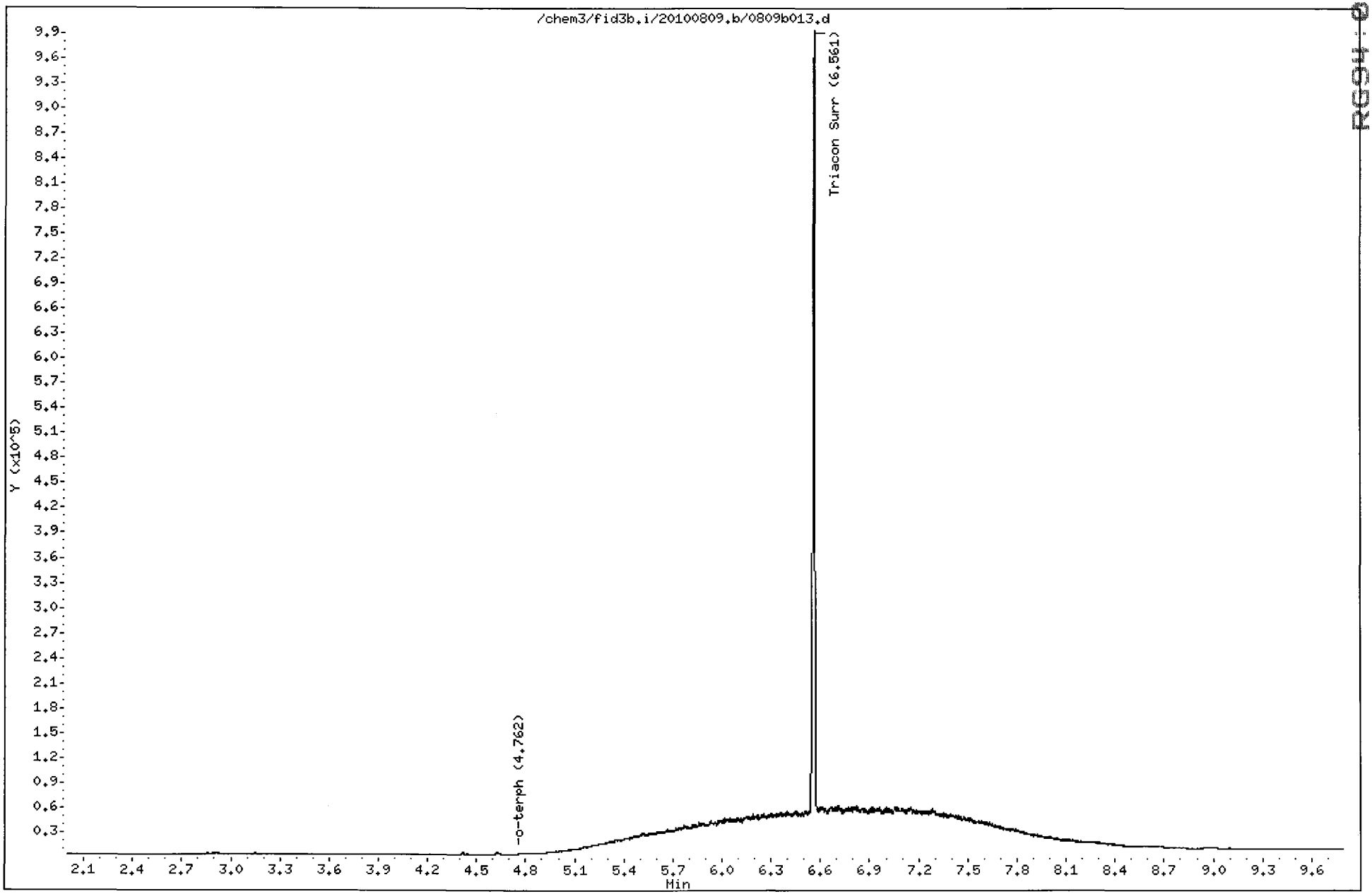
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RC94-01328



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b014.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94A
Client ID: MW14-15-16.5-080210
Injection: 09-AUG-2010 21:13
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	128856	5
C8	----				DIESEL (C12-C24)	139439	7
C10	2.856	0.001	2213	2248	M.OIL (C24-C38)	130705	11
C12	3.465	0.000	1901	593	AK-102 (C10-C25)	246785	10
C14	3.916	-0.007	1197	968	AK-103 (C25-C36)	97535	11
C16	4.322	0.004	824	467	OR.DIES (C10-C28)	257002	12
C18	4.676	0.002	1091	608	OR.MOIL (C28-C40)	166756	15
C20	4.999	0.004	897	383			
C22	5.293	0.001	696	136	STODDARD (C8-C12)	128856	5
C24	5.600	-0.002	531	303			
C25	5.756	-0.006	304	126			
C26	5.920	-0.001	416	311			
C28	6.243	0.001	902	1430			
C32	6.866	0.012	4625	5122			
C34	7.136	-0.002	1030	736	CREOSOT (C8-C22)	258302	40
Filter Peak	----						
C36	7.410	0.000	1397	737	BUNKERC (C10-C38)	376514	44
o-terph	4.762	0.002	1662072	978244	JET-A (C10-C18)	205479	13
Triacon Surr	6.559	0.000	843254	797307	IT.MOIL (C24-C40)	975257	45

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	978244	49.1	109.1
Triacontane	797307	47.7	105.9

MS 8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

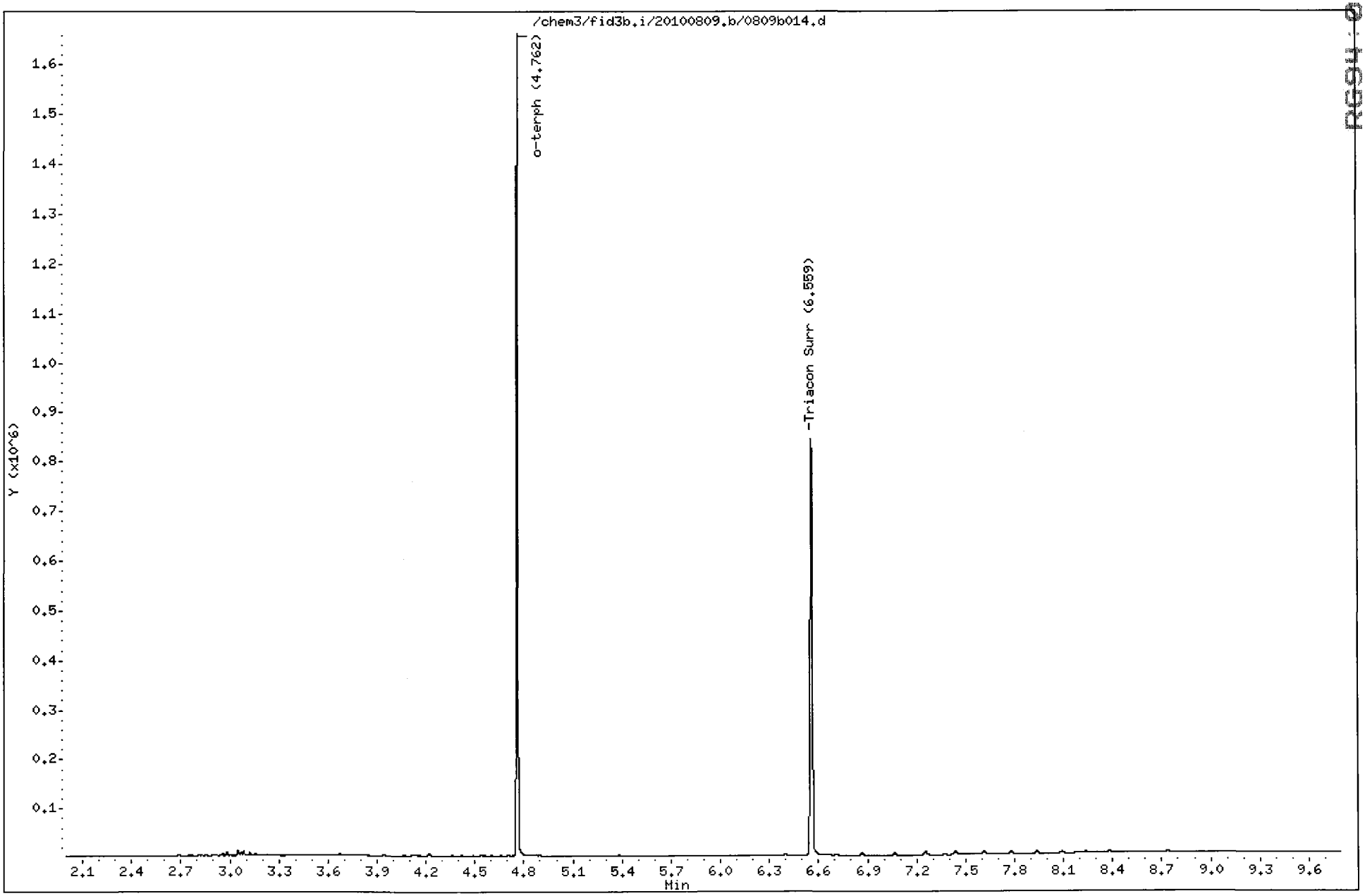
Data File: /chem3/fid3b.i/20100809.b/0809b014.d
Date : 09-AUG-2010 21:13
Client ID: MW14-15-16.5-080210
Sample Info: RG94A

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-01339



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b015.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94B
Client ID: MW14-22.5-24-080210
Injection: 09-AUG-2010 21:32
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	130046	5
C8	----				DIESEL (C12-C24)	150069	7
C10	2.858	0.002	2179	2551	M.OIL (C24-C38)	92724	8
C12	3.462	-0.002	2017	1025	AK-102 (C10-C25)	258492	11
C14	3.925	0.002	1141	446	AK-103 (C25-C36)	68774	8
C16	4.325	0.007	1048	594	OR.DIES (C10-C28)	267346	13
C18	4.675	0.001	1279	1149	OR.MOIL (C28-C40)	115785	10
C20	4.996	0.002	1119	573			
C22	5.296	0.003	822	205	STODDARD (C8-C12)	130046	5
C24	5.599	-0.002	536	314			
C25	5.754	-0.008	226	62			
C26	5.925	0.004	340	277			
C28	6.244	0.003	726	951			
C32	6.853	0.000	898	468			
C34	7.135	-0.003	821	342	CREOSOT (C8-C22)	268744	42
Filter Peak	----						
C36	7.409	0.000	1223	560	BUNKERC (C10-C38)	350468	41
o-terph	4.763	0.003	1898370	1051264	JET-A (C10-C18)	211793	13
Triacon Surr	6.560	0.001	984759	854326	IT.MOIL (C24-C40)	979713	46

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1051264	52.7	117.2
Triacontane	854326	51.1	113.5

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

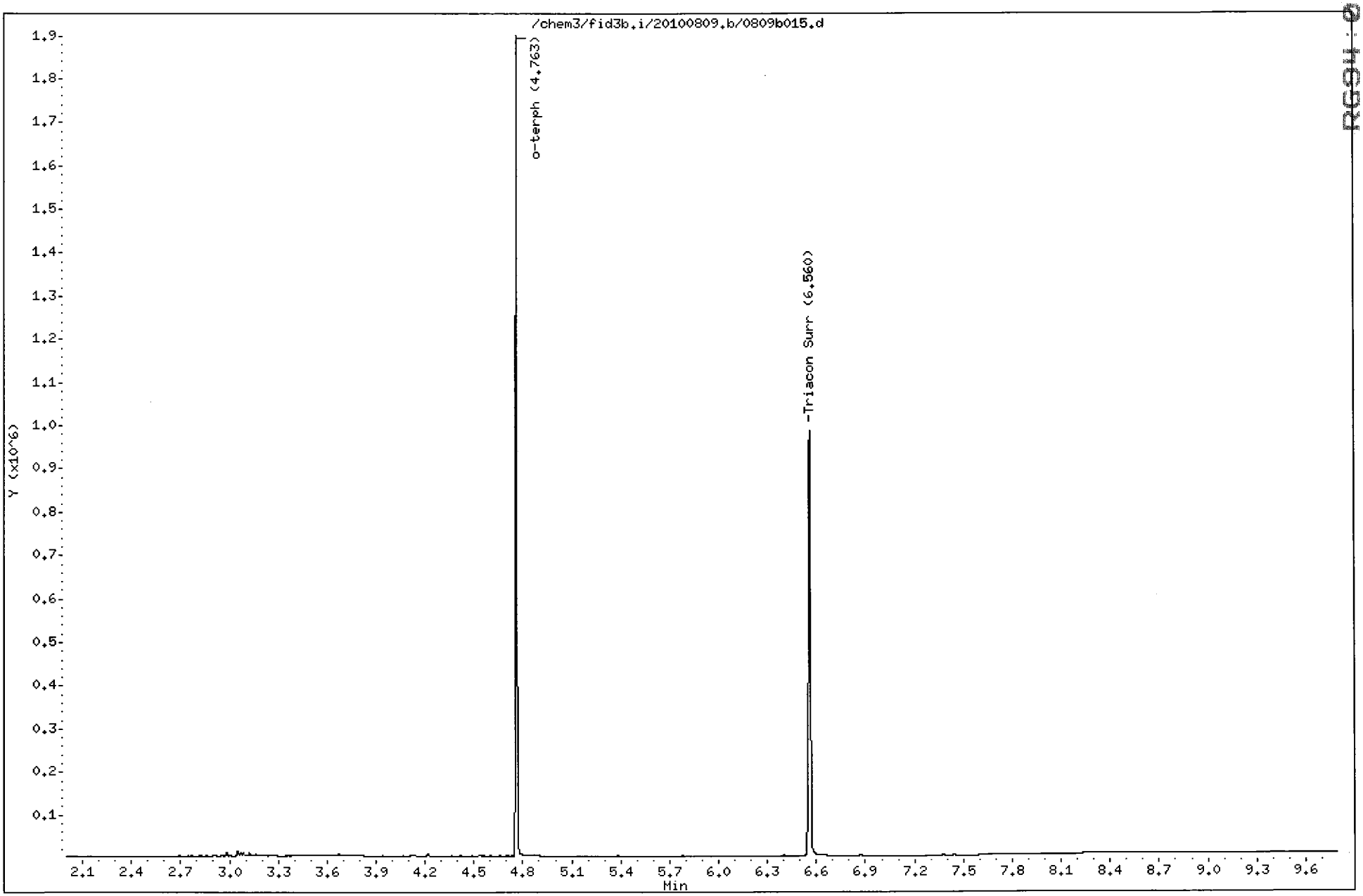
Data File: /chem3/fid3b.i/20100809.b/0809b015.d
Date : 09-AUG-2010 21:32
Client ID: MW14-22.5-24-080210
Sample Info: RG94B

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-01332



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b016.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94C
Client ID: MW13-10-11.5-080210
Injection: 09-AUG-2010 21:51
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	150232	5
C8	----				DIESEL (C12-C24)	209255	10
C10	2.856	0.001	2156	2655	M.OIL (C24-C38)	135035	11
C12	3.468	0.004	2516	1840	AK-102 (C10-C25)	338851	14
C14	3.926	0.004	2272	316	AK-103 (C25-C36)	106714	12
C16	4.322	0.004	1092	816	OR.DIES (C10-C28)	365503	17
C18	4.673	0.000	1177	980	OR.MOIL (C28-C40)	143043	13
C20	4.989	-0.005	1276	1091			
C22	5.294	0.002	1400	357	STODDARD (C8-C12)	150232	5
C24	5.598	-0.003	1002	237			
C25	5.753	-0.008	663	151			
C26	5.921	0.001	808	188			
C28	6.241	-0.001	1478	1028			
C32	6.847	-0.007	1153	448			
C34	7.140	0.002	1253	964	CREOSOT (C8-C22)	340594	53
Filter Peak	----						
C36	7.408	-0.002	1341	527	BUNKERC (C10-C38)	471755	55
o-terph	4.762	0.002	1693847	1014553	JET-A (C10-C18)	273708	17
Triacon Surr	6.559	0.000	926552	808623	IT.MOIL (C24-C40)	980450	46

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1014553	50.9	113.1
Triacontane	808623	48.3	107.4

8/11/10

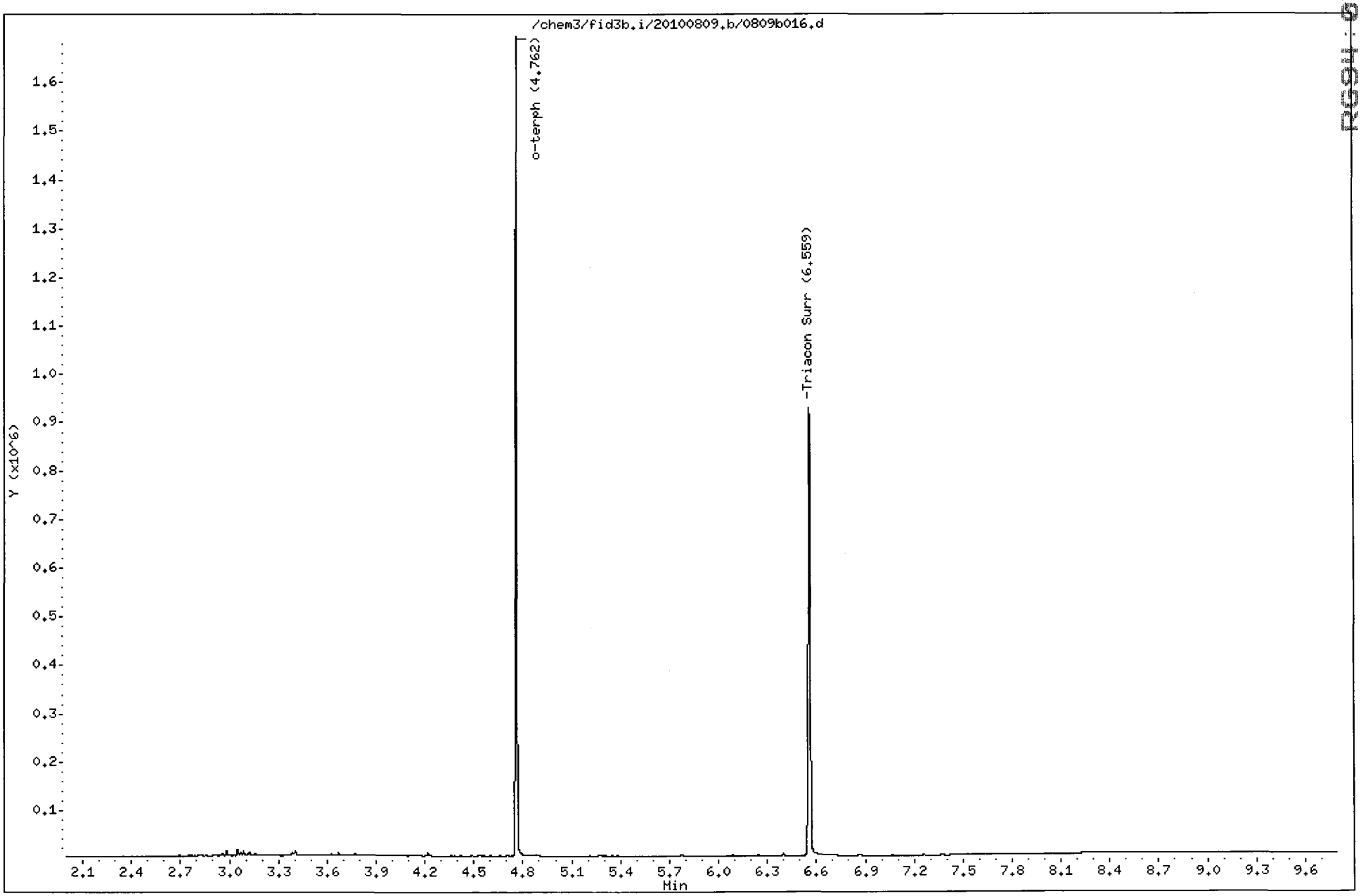
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b016.d
Date : 09-AUG-2010 21:51
Client ID: MW13-10-11.5-080210
Sample Info: RG94C

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b017.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94D
Client ID: MW13-14-14.5-080210
Injection: 09-AUG-2010 22:10
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	80830	3
C8	----				DIESEL (C12-C24)	142192	7
C10	2.857	0.002	1526	1430	M.OIL (C24-C38)	91119	8
C12	3.470	0.006	1663	590	AK-102 (C10-C25)	202930	8
C14	3.918	-0.004	1688	1658	AK-103 (C25-C36)	68567	8
C16	4.317	-0.001	736	243	OR.DIES (C10-C28)	213279	10
C18	4.675	0.001	773	151	OR.MOIL (C28-C40)	111559	10
C20	4.992	-0.003	917	970			
C22	5.294	0.002	995	215	STODDARD (C8-C12)	80830	3
C24	5.601	-0.001	636	351			
C25	5.763	0.001	395	105			
C26	5.923	0.002	392	110			
C28	6.242	0.001	729	1009			
C32	6.850	-0.003	857	219			
C34	7.140	0.002	791	318	CREOSOT (C8-C22)	210623	33
Filter Peak	----						
C36	7.409	-0.001	1100	474	BUNKERC (C10-C38)	292805	34
o-terph	4.762	0.002	1811581	1030236	JET-A (C10-C18)	157041	10
Triacon Surr	6.559	0.000	922113	838255	IT.MOIL (C24-C40)	961407	45

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1030236	51.7	114.8
Triacontane	838255	50.1	111.4

MS 8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b017.d

Page 1

Date : 09-AUG-2010 22:10

Client ID: MW13-14-14.5-080210

Instrument: fid3b.i

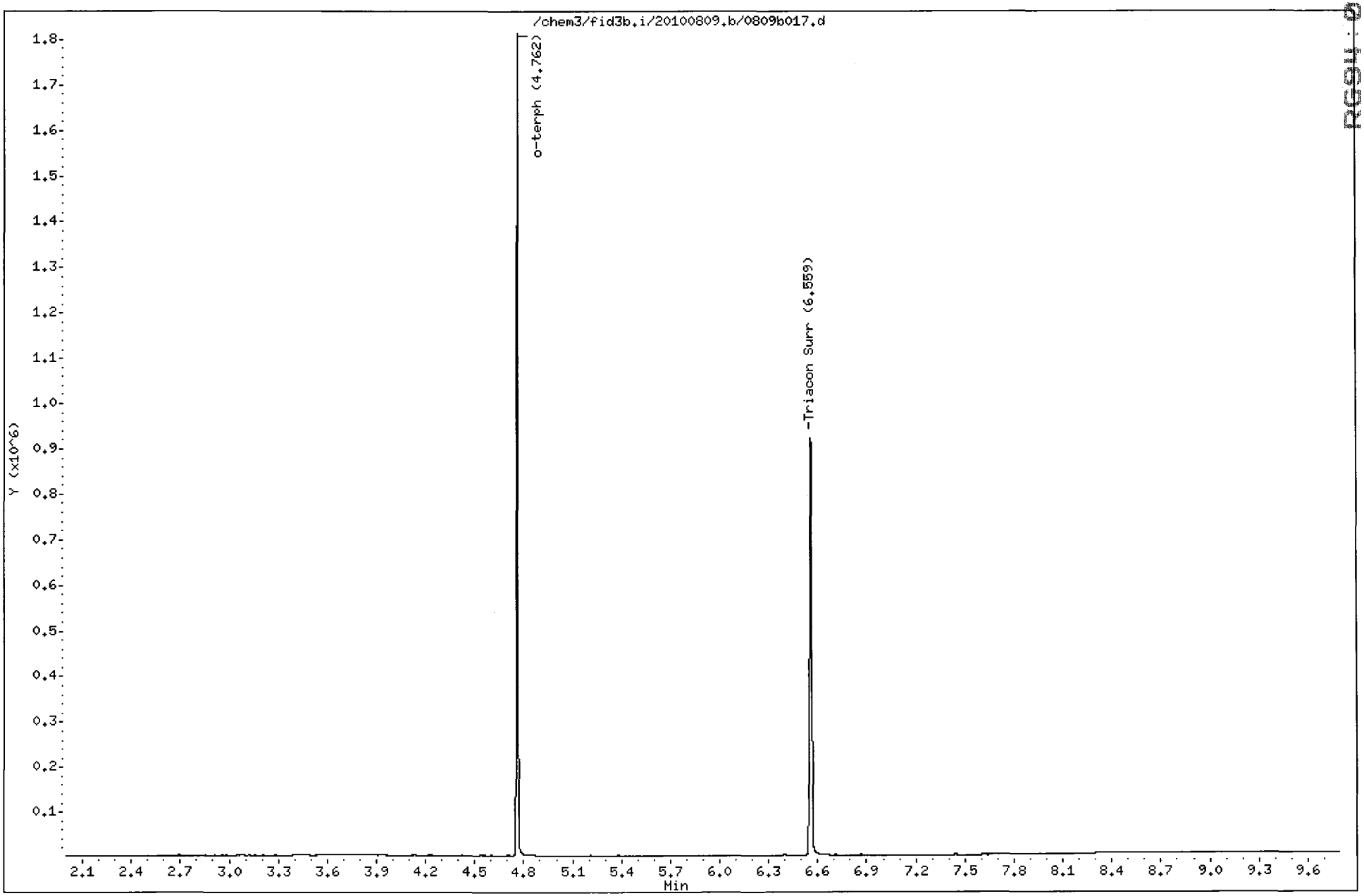
Sample Info: RG94D

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RG94-91336



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b018.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94E
Client ID: MW13-18.5-19.5-0802
Injection: 09-AUG-2010 22:29
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	143468	5
C8	----				DIESEL (C12-C24)	150672	7
C10	2.856	0.001	2310	2277	M.OIL (C24-C38)	86663	7
C12	3.465	0.000	2611	659	AK-102 (C10-C25)	272281	11
C14	3.920	-0.002	1101	260	AK-103 (C25-C36)	65940	7
C16	4.317	-0.001	843	198	OR.DIES (C10-C28)	281235	13
C18	4.675	0.001	1031	725	OR.MOIL (C28-C40)	107486	10
C20	4.998	0.003	884	450			
C22	5.297	0.005	634	134	STODDARD (C8-C12)	143468	5
C24	5.611	0.010	633	1198			
C25	5.748	-0.013	179	81			
C26	5.923	0.002	340	64			
C28	6.246	0.004	682	1070			
C32	6.868	0.014	1761	3548			
C34	7.138	0.000	867	655	CREOSOT (C8-C22)	285339	45
Filter Peak	----						
C36	7.409	-0.001	1064	358	BUNKERC (C10-C38)	358380	41
o-terph	4.764	0.004	1729978	1040629	JET-A (C10-C18)	233731	15
Triacon Surr	6.561	0.002	930283	856777	IT.MOIL (C24-C40)	973781	45

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1040629	52.2	116.0
Triacontane	856777	51.2	113.8

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

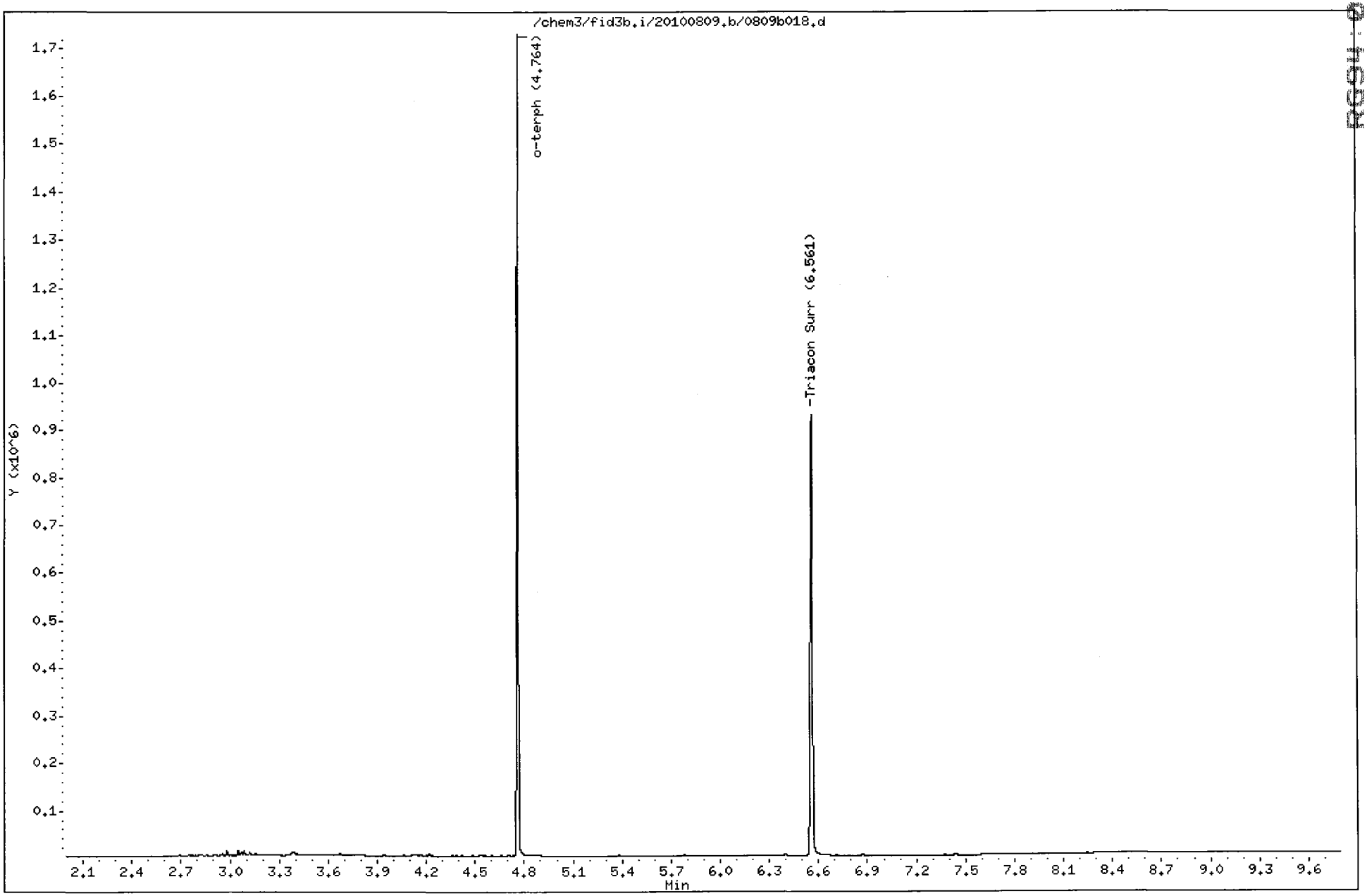
Data File: /chem3/fid3b.i/20100809.b/0809b018.d
Date : 09-AUG-2010 22:29
Client ID: MW13-18.5-19.5-0802
Sample Info: RG94E

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-01338



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b019.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94F
Client ID: MW13-18.5-19.5-0802
Injection: 09-AUG-2010 22:48
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	134741	5
C8	----				DIESEL (C12-C24)	124656	6
C10	2.856	0.000	2277	2564	M.OIL (C24-C38)	82602	7
C12	3.465	0.000	2223	819	AK-102 (C10-C25)	237484	10
C14	3.925	0.002	1050	473	AK-103 (C25-C36)	63561	7
C16	4.327	0.009	813	966	OR.DIES (C10-C28)	246226	12
C18	4.672	-0.002	751	526	OR.MOIL (C28-C40)	104385	9
C20	4.988	-0.007	872	737			
C22	5.293	0.001	547	190	STODDARD (C8-C12)	134741	5
C24	5.601	0.000	438	322			
C25	5.751	-0.011	158	82			
C26	5.916	-0.005	298	209			
C28	6.243	0.001	805	1197			
C32	6.846	-0.008	859	377			
C34	7.141	0.002	771	428	CREOSOT (C8-C22)	252238	39
Filter Peak	----						
C36	7.414	0.004	1049	403	BUNKERC (C10-C38)	319536	37
o-terph	4.762	0.002	1855851	1037116	JET-A (C10-C18)	202730	13
Triacon Surr	6.559	0.000	938814	839717	IT.MOIL (C24-C40)	953394	44

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1037116	52.0	115.6
Triacontane	839717	50.2	111.6

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b019.d

Page 1

Date : 09-AUG-2010 22:48

Client ID: MW13-18.5-19.5-0802

Instrument: fid3b.i

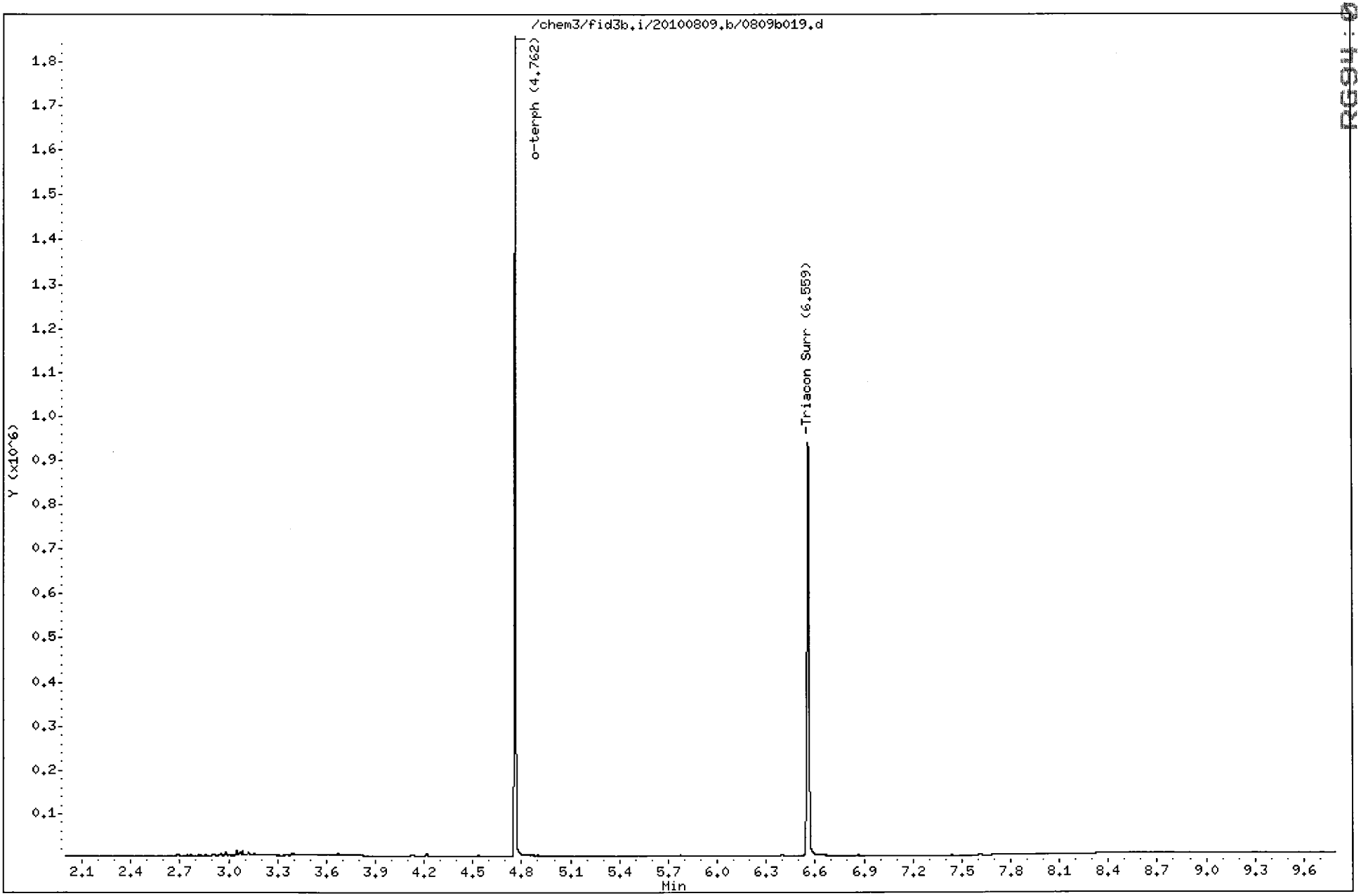
Sample Info: RG94F

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RG94-0813S



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b020.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94G
Client ID: MW12-5.5-7.5-080210
Injection: 09-AUG-2010 23:07
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	78213	3
C8	----				DIESEL (C12-C24)	213205	10
C10	2.857	0.002	1868	1744	M.OIL (C24-C38)	614004	51
C12	3.466	0.002	1117	328	AK-102 (C10-C25)	278309	12
C14	3.917	-0.006	906	669	AK-103 (C25-C36)	550901	62
C16	4.317	-0.001	4212	3168	OR.DIES (C10-C28)	424923	20
C18	4.674	0.000	2473	2621	OR.MOIL (C28-C40)	524398	47
C20	4.998	0.003	2214	1591			
C22	5.298	0.006	4005	4104	STODDARD (C8-C12)	78213	3
C24	5.603	0.002	3836	3463			
C25	5.766	0.004	8927	8283			
C26	5.920	0.000	4795	3816			
C28	6.238	-0.003	7771	9533			
C32	6.855	0.001	7537	5242			
C34	7.137	-0.001	5541	4178	CREOSOT (C8-C22)	230405	36
Filter Peak	----						
C36	7.413	0.003	3808	3276	BUNKERC (C10-C38)	883916	102
o-terph	4.762	0.002	1721778	963798	JET-A (C10-C18)	133929	8
Triacon Surr	6.558	-0.001	877146	790629	IT.MOIL (C24-C40)	1470038	68

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	963798	48.3	107.4
Triacontane	790629	47.3	105.0

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b020.d

Date : 09-AUG-2010 23:07

Client ID: MW12-5.5-7.5-080210

Sample Info: RG94G

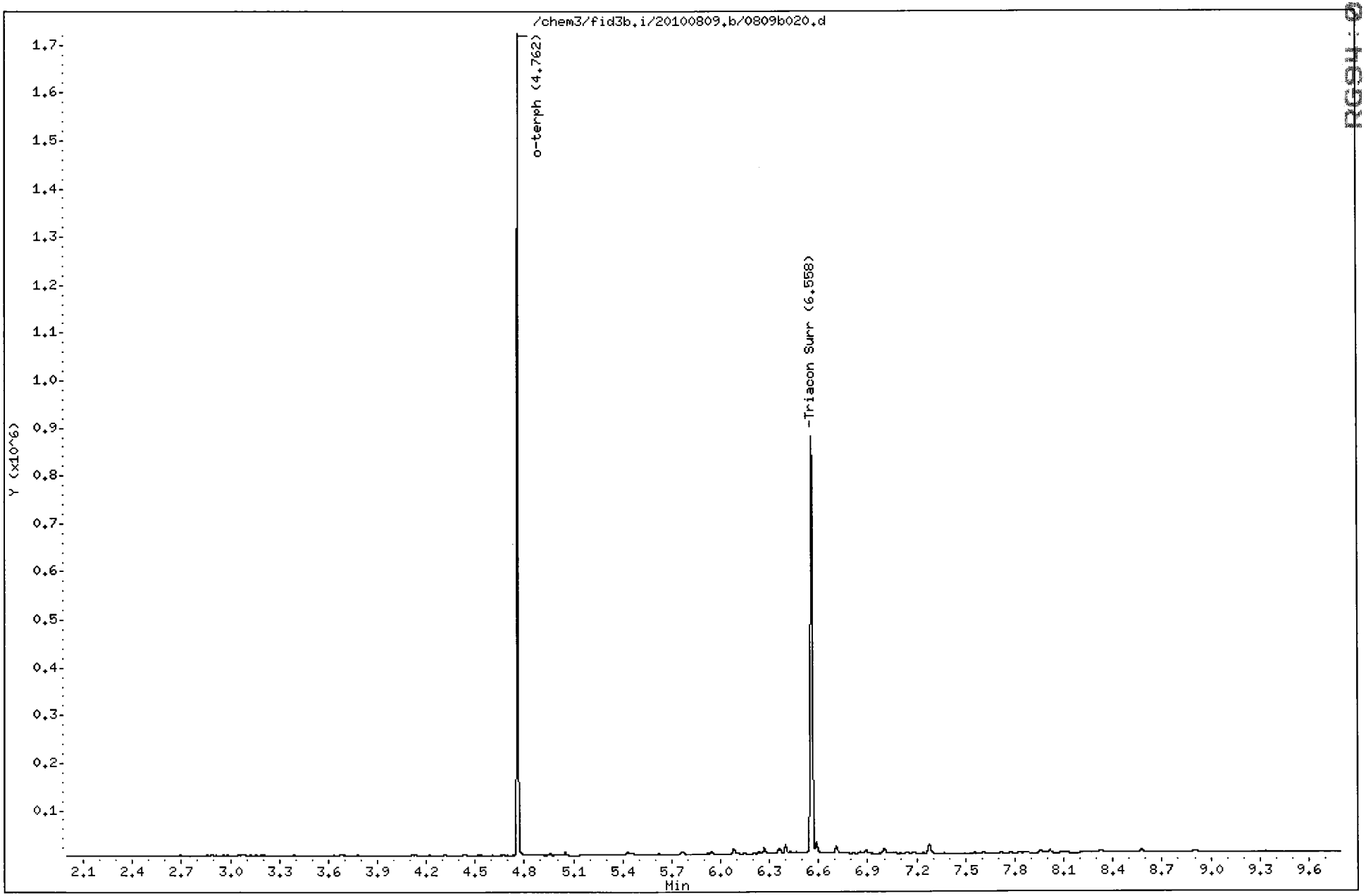
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-091312



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b021.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94H
Client ID: MW12-8-9.5-080210
Injection: 09-AUG-2010 23:26
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	148478	5
C8	----				DIESEL (C12-C24)	142480	7
C10	2.856	0.001	2500	2631	M.OIL (C24-C38)	94256	8
C12	3.460	-0.004	2743	1739	AK-102 (C10-C25)	266918	11
C14	3.921	-0.002	1261	525	AK-103 (C25-C36)	72776	8
C16	4.328	0.011	1143	1531	OR.DIES (C10-C28)	277783	13
C18	4.676	0.002	961	692	OR.MOIL (C28-C40)	113496	10
C20	4.990	-0.005	1036	794			
C22	5.293	0.001	697	147	STODDARD (C8-C12)	148478	5
C24	5.603	0.002	583	284			
C25	5.748	-0.013	232	101			
C26	5.923	0.002	409	462			
C28	6.243	0.001	822	716			
C32	6.851	-0.003	978	267			
C34	7.138	0.000	924	307	CREOSOT (C8-C22)	283494	44
Filter Peak	----						
C36	7.406	-0.003	1041	327	BUNKERC (C10-C38)	360324	42
o-terph	4.764	0.004	1842622	989000	JET-A (C10-C18)	227850	14
Triacon Surr	6.560	0.001	930873	779259	IT.MOIL (C24-C40)	904471	42

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	989000	49.6	110.3
Triacontane	779259	46.6	103.5

8/11/10

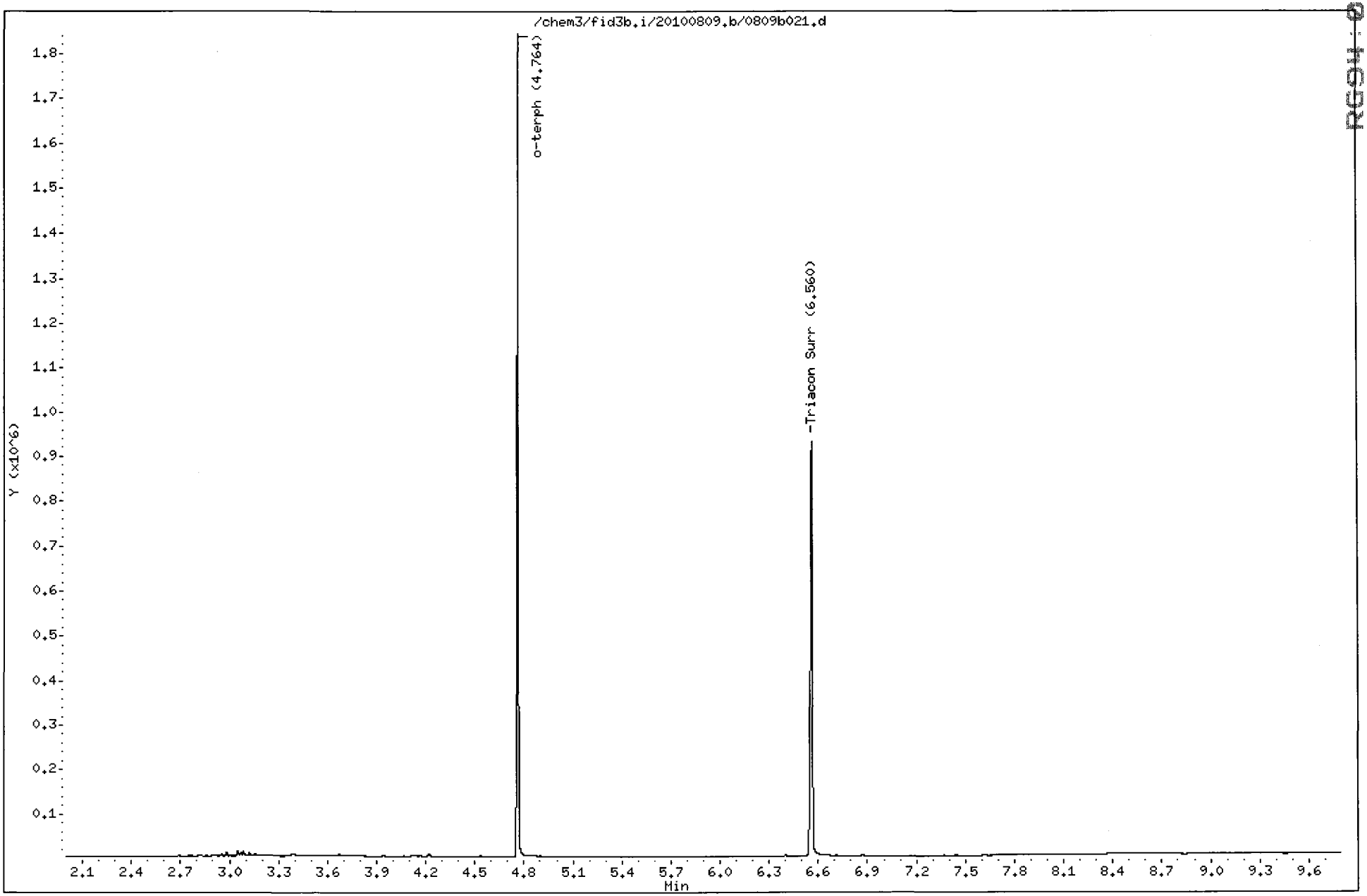
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b021.d
Date : 09-AUG-2010 23:26
Client ID: MW12-8-9.5-080210
Sample Info: RG94H

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b022.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94HMS
Client ID: MW12-8-9.5-0802 MS
Injection: 09-AUG-2010 23:45
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3466286	127
C8	----				DIESEL (C12-C24)	23703780	1108
C10	2.857	0.002	122979	90253	M.OIL (C24-C38)	335856	28
C12	3.467	0.003	363485	252569	AK-102 (C10-C25)	26606713	1104
C14	3.925	0.003	671693	516932	AK-103 (C25-C36)	260127	29
C16	4.323	0.005	1147763	813175	OR.DIES (C10-C28)	26812966	1271
C18	4.678	0.004	981058	791708	OR.MOIL (C28-C40)	84452	7
C20	4.998	0.003	627028	506739			
C22	5.295	0.003	286683	235580	STODDARD (C8-C12)	3466286	125
C24	5.602	0.000	78980	87283			
C25	5.761	0.000	33672	44454			
C26	5.922	0.001	12775	11434			
C28	6.243	0.001	2957	3930			
C32	6.862	0.009	1453	1168			
C34	7.134	-0.004	1327	944	CREOSOT (C8-C22)	26293116	4111
Filter Peak	----						
C36	7.413	0.003	569	263	BUNKERC (C10-C38)	26879289	3110
o-terph	4.763	0.003	1955232	1737730	JET-A (C10-C18)	19844495	1252
Triacon Surr	6.560	0.001	879910	777539	IT.MOIL (C24-C40)	1131524	53

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1737730	87.2	193.7
Triacontane	777539	46.5	103.3

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

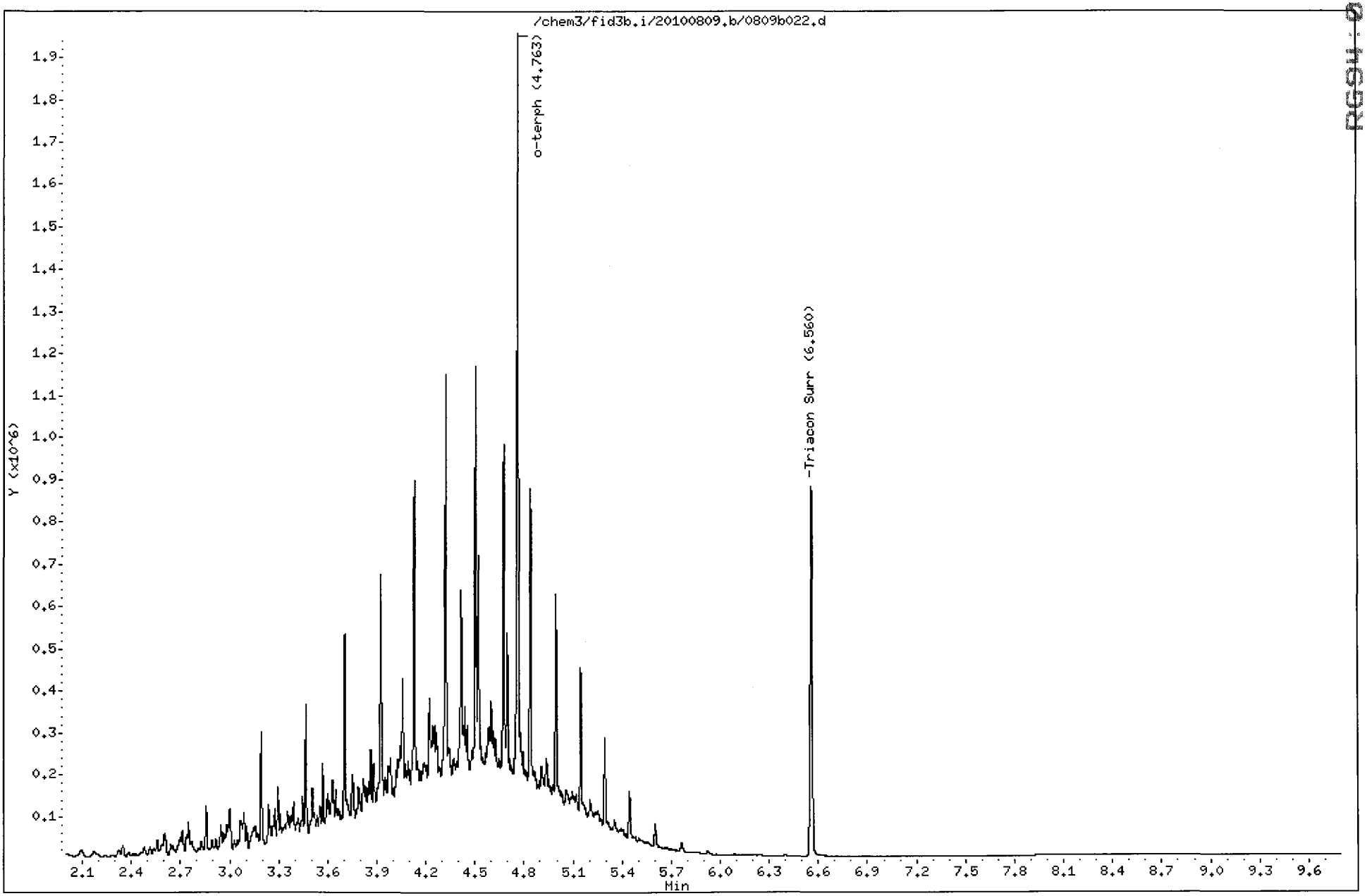
MS 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b022.d
Date : 09-AUG-2010 23:45
Client ID: MW12-8-9.5-0802 MS
Sample Info: RG94HMS

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-91316



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b022.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94HMS
Client ID: MW12-8-9.5-0802 MS
Injection: 09-AUG-2010 23:45
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3466286	127
C8	----				DIESEL (C12-C24)	24514895	1146
C10	2.857	0.002	122979	90253	M.OIL (C24-C38)	335856	28
C12	3.467	0.003	363485	252569	AK-102 (C10-C25)	27417828	1137
C14	3.925	0.003	671693	516932	AK-103 (C25-C36)	260127	29
C16	4.323	0.005	1147763	813175	OR.DIES (C10-C28)	27624080	1310
C18	4.678	0.004	981058	791708	OR.MOIL (C28-C40)	84452	7
C20	4.998	0.003	627028	506739			
C22	5.295	0.003	286683	235580	STODDARD (C8-C12)	3466286	125
C24	5.602	0.000	78980	87283			
C25	5.761	0.000	33672	44454			
C26	5.922	0.001	12775	11434			
C28	6.243	0.001	2957	3930			
C32	6.862	0.009	1453	1168			
C34	7.134	-0.004	1327	944	CREOSOT (C8-C22)	27104230	4238
Filter Peak	----						
C36	7.413	0.003	569	263	BUNKERC (C10-C38)	27690404	3204
o-terph	4.763	0.003	1681318	930855	JET-A (C10-C18)	19844495	1252
Triacon Surr	6.560	0.001	879910	777539	IT.MOIL (C24-C40)	1131524	53

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	930855	46.7	103.8
Triacontane	777539	46.5	103.3

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b022.d

Date : 09-AUG-2010 23:45

Client ID: MW12-8-9.5-0802 MS

Sample Info: RG94HMS

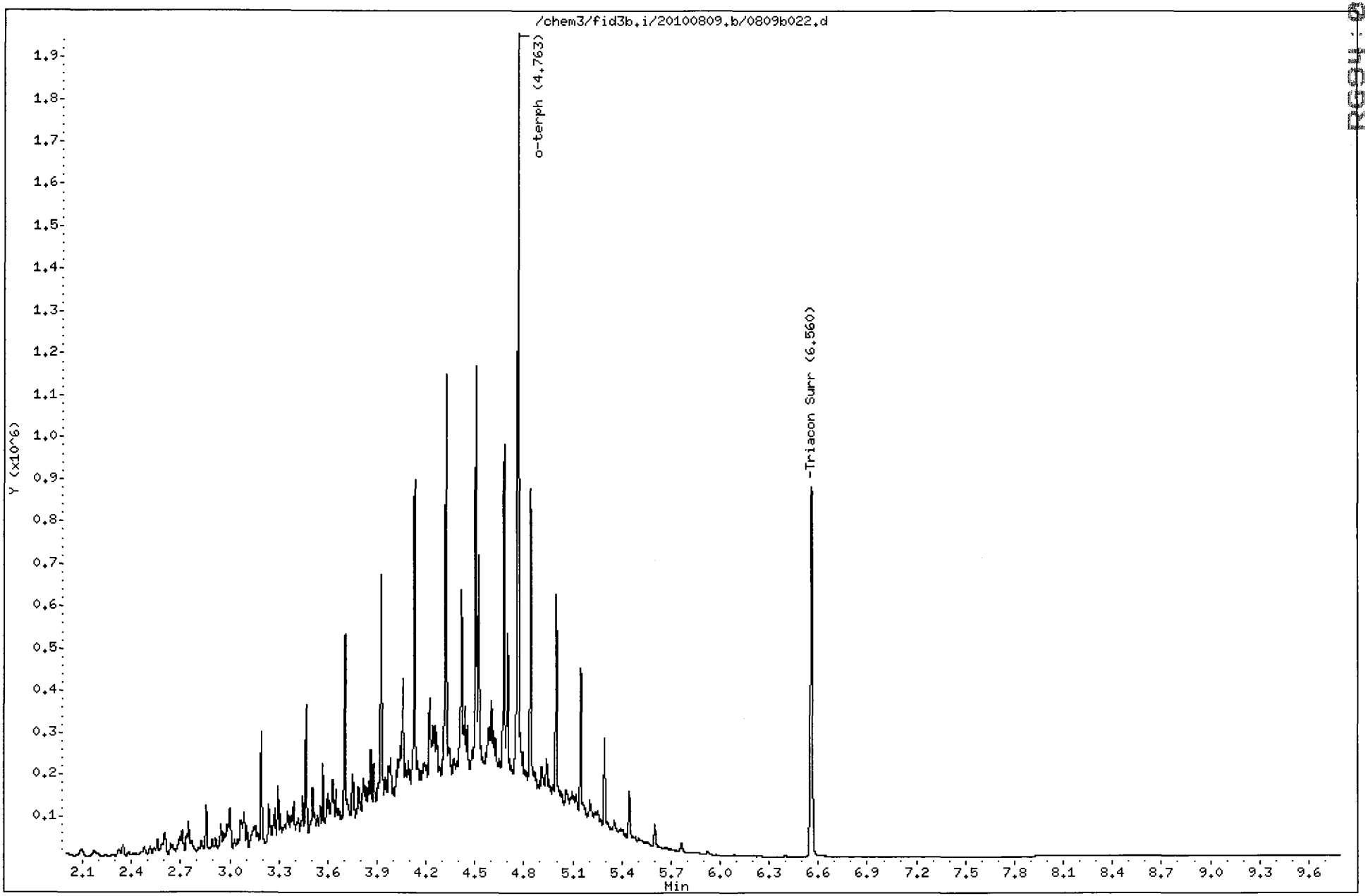
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-013HS



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b023.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94HMSD
Client ID: MW12-8-9.5-0802 MSD
Injection: 10-AUG-2010 00:04
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3678693	134
C8	----				DIESEL (C12-C24)	25844532	1208
C10	2.858	0.003	137393	93628	M.OIL (C24-C38)	338099	28
C12	3.467	0.002	376715	256282	AK-102 (C10-C25)	28914671	1200
C14	3.926	0.003	682262	557758	AK-103 (C25-C36)	254793	29
C16	4.323	0.005	1195346	1015124	OR.DIES (C10-C28)	29128013	1381
C18	4.677	0.003	1079131	907226	OR.MOIL (C28-C40)	72173	6
C20	4.998	0.004	663011	530855			
C22	5.295	0.003	314005	256810	STODDARD (C8-C12)	3678693	133
C24	5.602	0.001	85417	86707			
C25	5.763	0.002	34596	46430			
C26	5.925	0.004	13785	21507			
C28	6.242	0.000	2521	3726			
C32	6.844	-0.010	420	202			
C34	7.143	0.005	491	146	CREOSOT (C8-C22)	28575536	4468
Filter Peak	----						
C36	7.408	-0.002	346	177	BUNKERC (C10-C38)	29180450	3376
o-terph	4.765	0.005	2013559	1625298	JET-A (C10-C18)	21425841	1352
Triacon Surr	6.560	0.001	883896	837870	IT.MOIL (C24-C40)	1195705	56

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1625298	81.5	181.2
Triacontane	837870	50.1	111.3

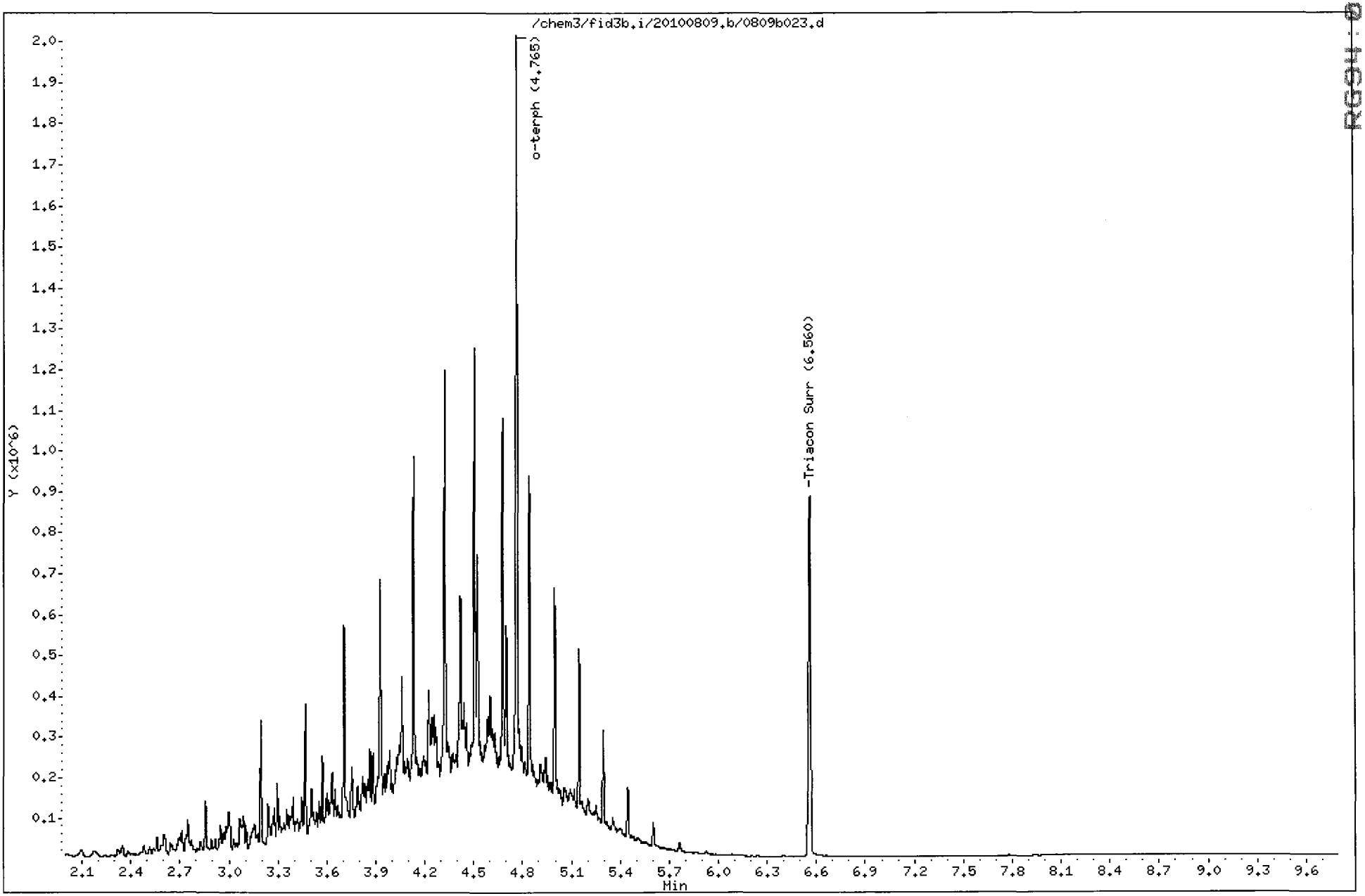
8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b023.d
Date : 10-AUG-2010 00:04
Client ID: MW12-8-9.5-0802 MSD
Sample Info: RG94HMSD

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b023.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94HMSD
Client ID: MW12-8-9.5-0802 MSD
Injection: 10-AUG-2010 00:04
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3678693	134
C8	----				DIESEL (C12-C24)	26518151	1239
C10	2.858	0.003	137393	93628	M.OIL (C24-C38)	338099	28
C12	3.467	0.002	376715	256282	AK-102 (C10-C25)	29588290	1228
C14	3.926	0.003	682262	557758	AK-103 (C25-C36)	254793	29
C16	4.323	0.005	1195346	1015124	OR.DIES (C10-C28)	29801631	1413
C18	4.677	0.003	1079131	907226	OR.MOIL (C28-C40)	72173	6
C20	4.998	0.004	663011	530855			
C22	5.295	0.003	314005	256810	STODDARD (C8-C12)	3678693	133
C24	5.602	0.001	85417	86707			
C25	5.763	0.002	34596	46430			
C26	5.925	0.004	13785	21507			
C28	6.242	0.000	2521	3726			
C32	6.844	-0.010	420	202			
C34	7.143	0.005	491	146	CREOSOT (C8-C22)	29249155	4573
Filter Peak	----						
C36	7.408	-0.002	346	177	BUNKERC (C10-C38)	29854069	3454
o-terph	4.765	0.005	1696011	957027	JET-A (C10-C18)	21425841	1352
Triacon Surr	6.560	0.001	883896	837870	IT.MOIL (C24-C40)	1195705	56

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	957027	48.0	106.7
Triacontane	837870	50.1	111.3

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b023.d

Date : 10-AUG-2010 00:04

Client ID: MW12-8-9.5-0802 MSD

Sample Info: RG94HMSD

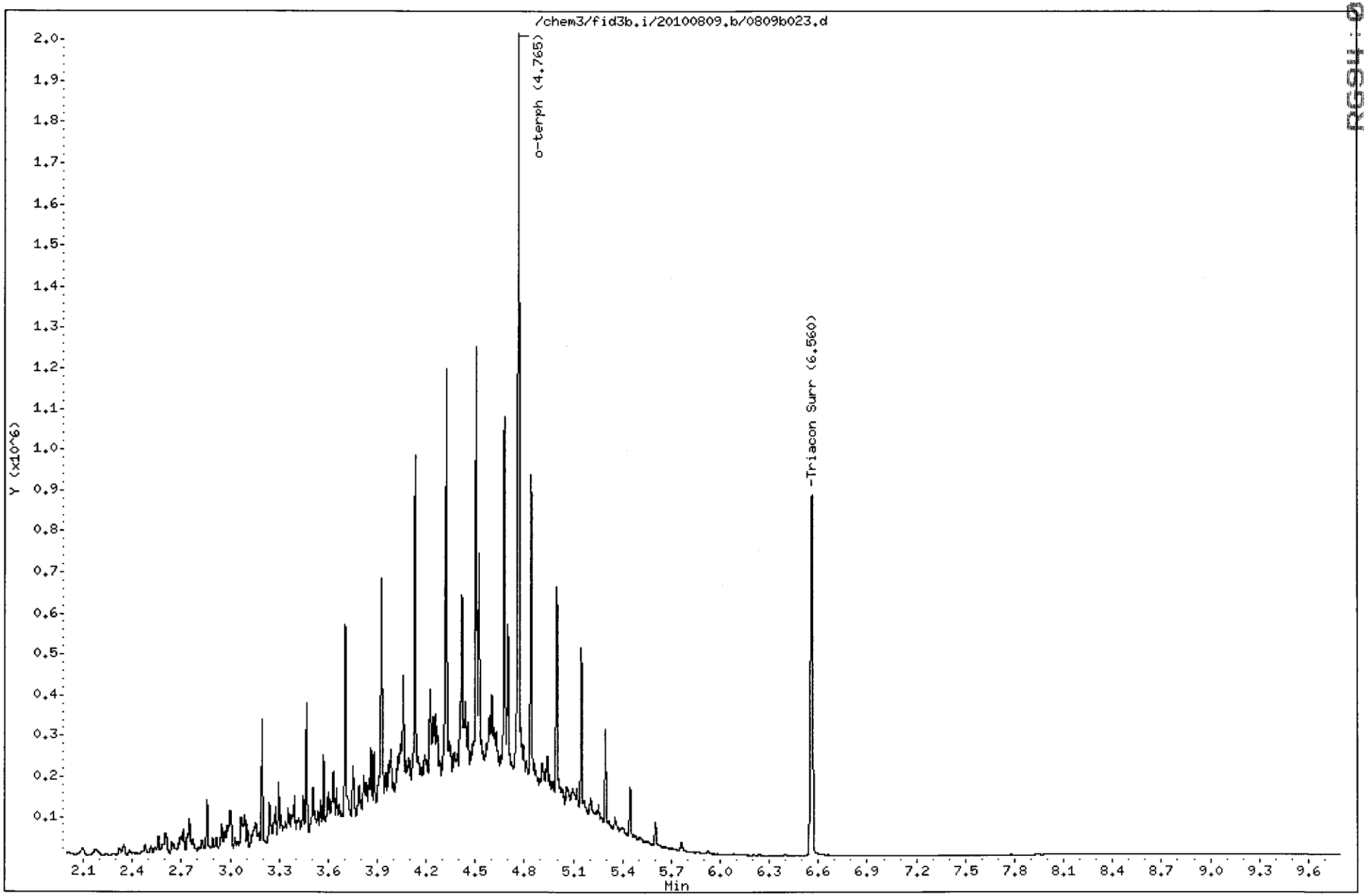
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-01352



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b024.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94I
Client ID: MW12-10-11.5-080210
Injection: 10-AUG-2010 00:23
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	145570	5
C8	----				DIESEL (C12-C24)	152557	7
C10	2.857	0.002	2655	2823	M.OIL (C24-C38)	100889	8
C12	3.461	-0.003	2298	798	AK-102 (C10-C25)	275122	11
C14	3.925	0.002	1255	197	AK-103 (C25-C36)	78425	9
C16	4.317	-0.001	980	174	OR.DIES (C10-C28)	291540	14
C18	4.675	0.001	1280	776	OR.MOIL (C28-C40)	109392	10
C20	4.995	0.000	1031	532			
C22	5.294	0.002	726	292	STODDARD (C8-C12)	145570	5
C24	5.600	-0.001	544	360			
C25	5.755	-0.006	353	71			
C26	5.919	-0.002	501	86			
C28	6.244	0.002	1162	1770			
C32	6.850	-0.003	1040	376			
C34	7.138	0.000	890	122	CREOSOT (C8-C22)	290062	45
Filter Peak	----						
C36	7.408	-0.002	955	170	BUNKERC (C10-C38)	374827	43
o-terph	4.762	0.002	1583433	893040	JET-A (C10-C18)	235679	15
Triacon Surr	6.559	0.000	749956	697333	IT.MOIL (C24-C40)	824327	38

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	893040	44.8	99.6
Triacontane	697333	41.7	92.6

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b024.d

Page 1

Date : 10-AUG-2010 00:23

Client ID: MW12-10-11.5-080210

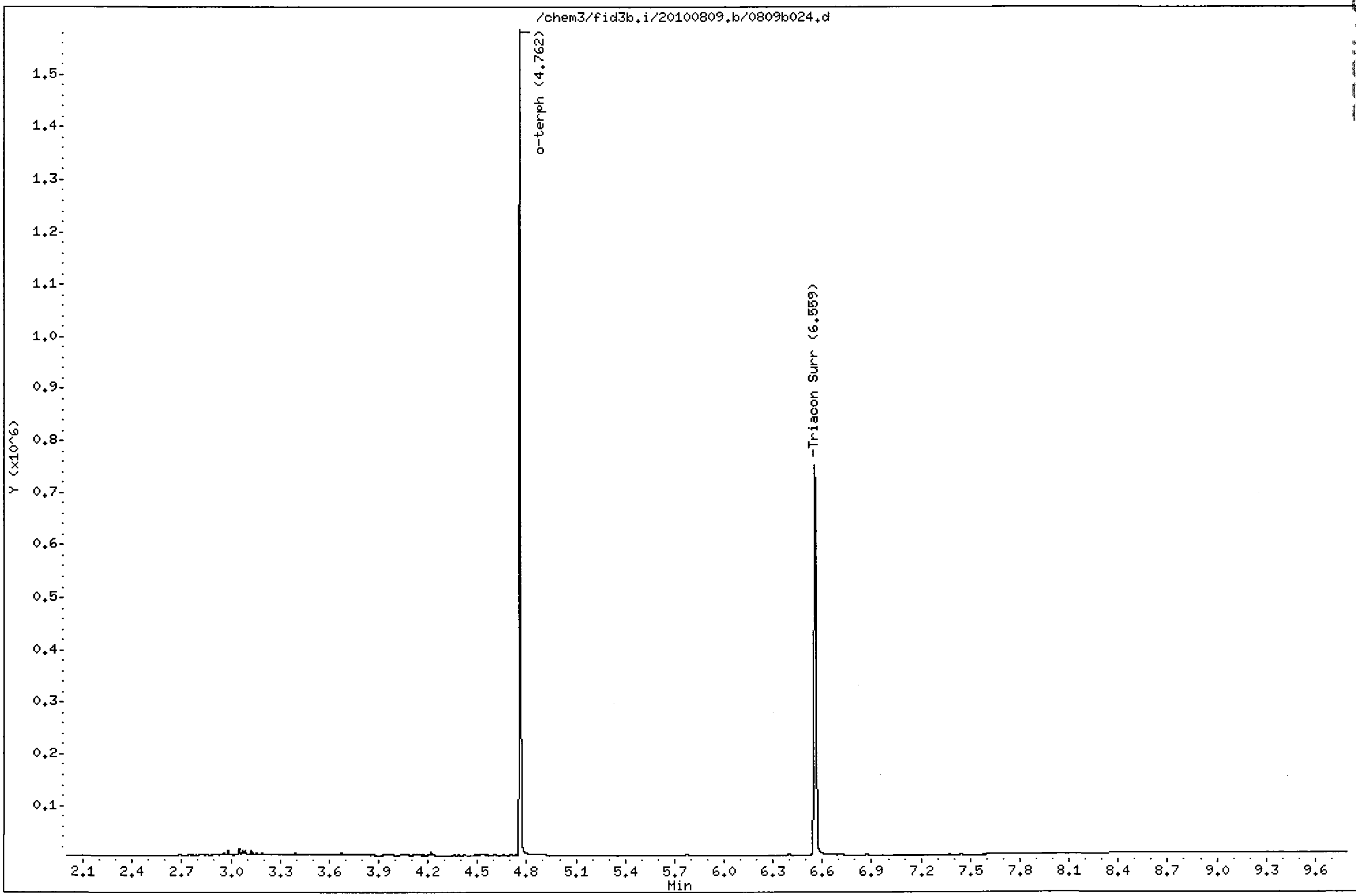
Instrument: fid3b.i

Sample Info: RG94I

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b025.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94J
Client ID: MW12-17.5-19-080210
Injection: 10-AUG-2010 00:42
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	147337	5
C8	----				DIESEL (C12-C24)	167277	8
C10	2.858	0.003	2413	2576	M.OIL (C24-C38)	75492	6
C12	3.460	-0.004	2721	1228	AK-102 (C10-C25)	291835	12
C14	3.917	-0.006	1359	958	AK-103 (C25-C36)	57753	6
C16	4.324	0.006	1473	1186	OR.DIES (C10-C28)	300942	14
C18	4.673	-0.001	1487	924	OR.MOIL (C28-C40)	93450	8
C20	4.989	-0.005	1140	737			
C22	5.287	-0.005	764	375	STODDARD (C8-C12)	147337	5
C24	5.602	0.001	511	453			
C25	5.754	-0.008	219	98			
C26	5.920	-0.001	332	87			
C28	6.246	0.004	993	1343			
C32	6.847	-0.006	769	150			
C34	7.134	-0.004	630	365	CREOSOT (C8-C22)	306387	48
Filter Peak	----						
C36	7.407	-0.003	798	348	BUNKERC (C10-C38)	366623	42
o-terph	4.763	0.003	1789339	1016558	JET-A (C10-C18)	250295	16
Triacon Surr	6.561	0.002	892647	817873	IT.MOIL (C24-C40)	921133	43

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1016558	51.0	113.3
Triacontane	817873	48.9	108.7

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b025.d

Date : 10-AUG-2010 00:42

Client ID: MW12-17.5-19-080210

Sample Info: RG94J

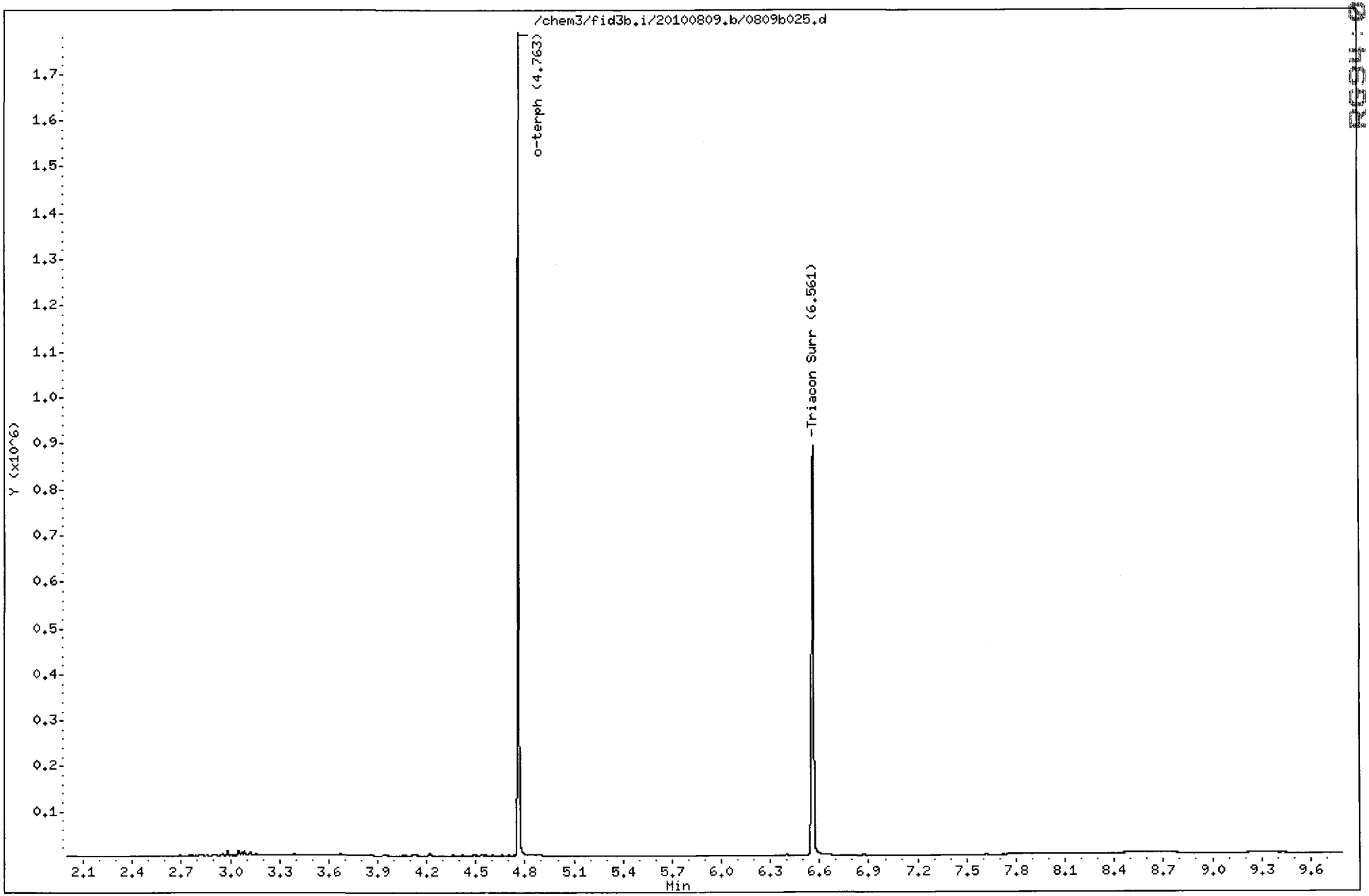
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-01350



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b026.d ARI ID: DIESEL#3
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 10-AUG-2010 01:01
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	802454	29
C8	----				DIESEL (C12-C24)	5214587	244
C10	2.855	0.001	29656	19812	M.OIL (C24-C38)	85690	7
C12	3.465	0.001	66616	49029	AK-102 (C10-C25)	5860753	243
C14	3.923	-0.001	138358	119499	AK-103 (C25-C36)	59639	7
C16	4.320	0.000	231993	182243	OR.DIES (C10-C28)	5905522	280
C18	4.675	0.002	206078	164391	OR.MOIL (C28-C40)	47752	4
C20	4.996	0.001	126029	112504			
C22	5.294	0.001	54142	45468	STODDARD (C8-C12)	802454	29
C24	5.607	0.005	11470	14676			
C25	5.759	-0.002	2966	574			
C26	5.918	-0.005	1356	824			
C28	6.238	-0.004	280	183			
C32	6.844	-0.011	27	3			
C34	7.142	0.001	145	129	CREOSOT (C8-C22)	5834742	912
Filter Peak	----						
C36	7.410	-0.002	366	217	BUNKERC (C10-C38)	5932373	686
o-terph	4.763	0.002	1784102	1064127	JET-A (C10-C18)	4437358	280
Triacon Surr	6.558	-0.001	116	79	IT.MOIL (C24-C40)	106671	5

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1064127	53.4	118.6
Triacontane	79	0.0	0.0

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b026.d

Page 1

Date : 10-AUG-2010 01:01

Client ID:

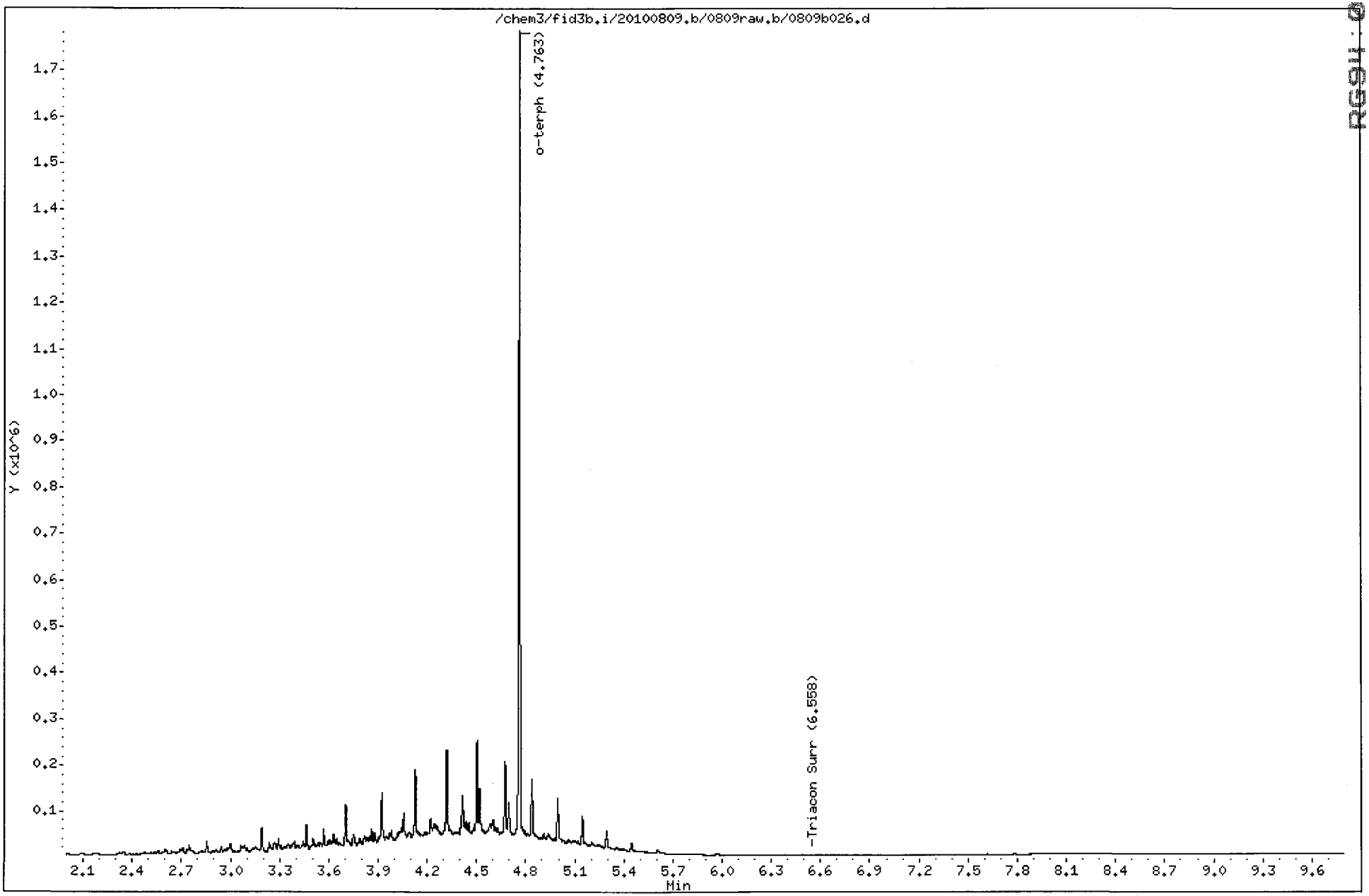
Instrument: fid3b.i

Sample Info: DIESEL#3

Operator: MS

Column phase: RTX-1

Column diameter: 2.00



R691-01358

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b026.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: DIESEL#3
Client ID:
Injection: 10-AUG-2010 01:01
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	802454	29
C8	----				DIESEL (C12-C24)	5384570	252
C10	2.855	0.001	29656	19812	M.OIL (C24-C38)	85690	7
C12	3.465	0.001	66616	49029	AK-102 (C10-C25)	6030735	250
C14	3.923	-0.001	138358	119499	AK-103 (C25-C36)	59639	7
C16	4.320	0.000	231993	182243	OR.DIES (C10-C28)	6075504	288
C18	4.675	0.002	206078	164391	OR.MOIL (C28-C40)	47752	4
C20	4.996	0.001	126029	112504			
C22	5.294	0.001	54142	45468	STODDARD (C8-C12)	802454	29
C24	5.607	0.005	11470	14676			
C25	5.759	-0.002	2966	574			
C26	5.918	-0.005	1356	824			
C28	6.238	-0.004	280	183			
C32	6.844	-0.011	27	3			
C34	7.142	0.001	145	129	CREOSOT (C8-C22)	6004724	939
Filter Peak	----						
C36	7.410	-0.002	366	217	BUNKERC (C10-C38)	6102355	706
o-terph	4.763	0.002	1722734	895137	JET-A (C10-C18)	4437358	280
Triacon Surr	6.558	-0.001	116	79	IT.MOIL (C24-C40)	106671	5

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	895137	44.9	99.8
Triacontane	79	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 9/14/10

Data File: /chem3/fid3b.i/20100809.b/0809b026.d

Date : 10-AUG-2010 01:01

Client ID:

Sample Info: DIESEL#3

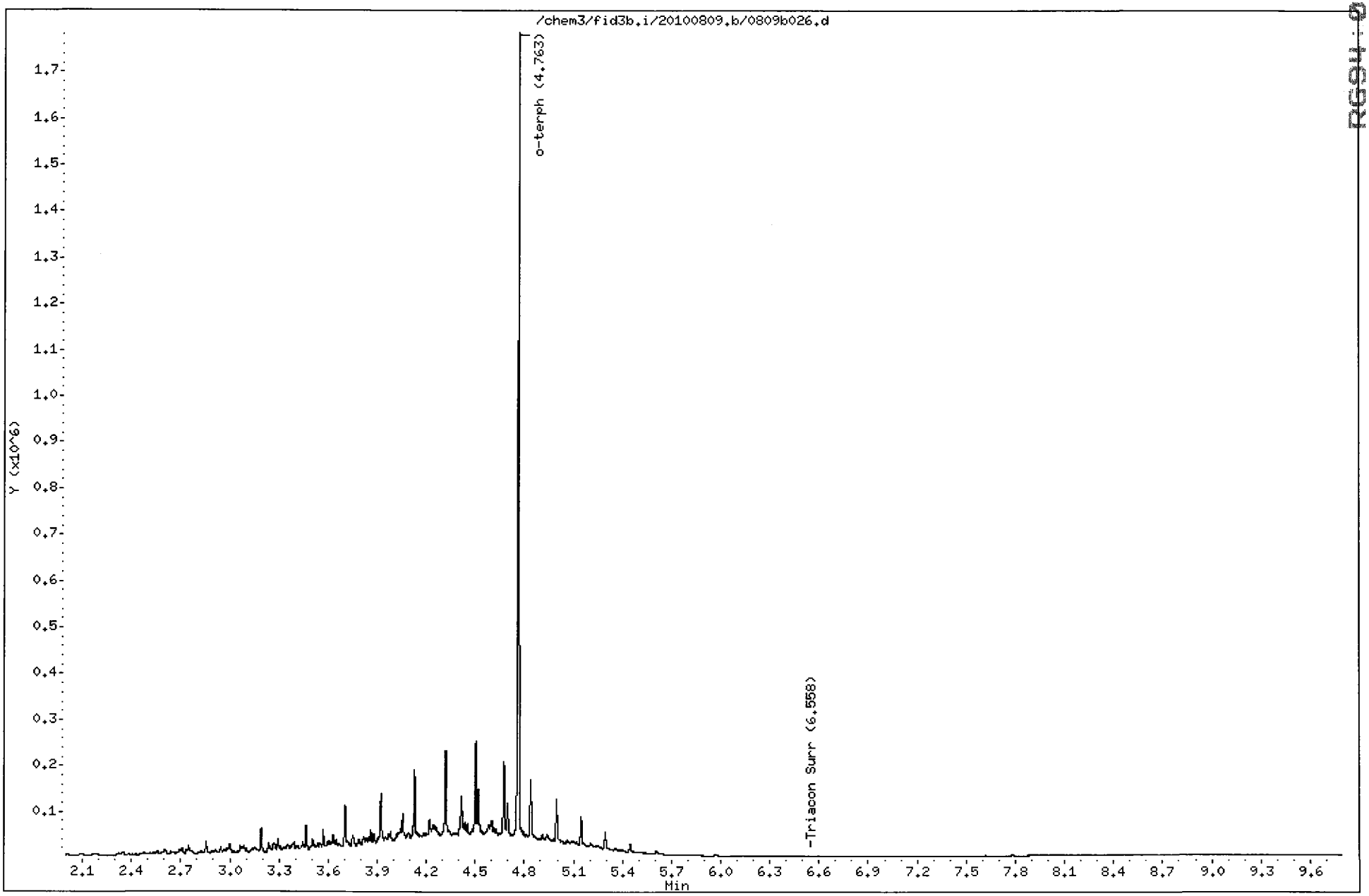
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-91369



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b027.d ARI ID: MOIL#3
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 10-AUG-2010 01:21
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	47998	2
C8	----				DIESEL (C12-C24)	679708	32
C10	2.855	0.001	1064	1026	M.OIL (C24-C38)	5452933	451
C12	3.466	0.002	703	428	AK-102 (C10-C25)	816016	34
C14	3.922	-0.001	491	142	AK-103 (C25-C36)	4771963	534
C16	4.317	-0.003	323	140	OR.DIES (C10-C28)	2165193	103
C18	4.675	0.002	622	85	OR.MOIL (C28-C40)	4359781	387
C20	4.996	0.001	4144	813			
C22	5.294	0.000	14749	4038	STODDARD (C8-C12)	47998	2
C24	5.601	-0.001	27522	7637			
C25	5.763	0.002	35326	28914			
C26	5.927	0.004	38988	11294			
C28	6.244	0.002	49209	17058			
C32	6.854	-0.001	55890	19064			
C34	7.140	-0.001	54707	17343	CREOSOT (C8-C22)	311639	49
Filter Peak	----						
C36	7.412	-0.001	48226	21091	BUNKERC (C10-C38)	6164955	713
o-terph	4.762	0.001	1421	1834	JET-A (C10-C18)	68402	4
Triacon Surr	6.561	0.003	990952	936518	IT.MOIL (C24-C40)	6749470	314

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1834	0.1	0.2
Triacontane	936518	56.0	124.4

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b027.d

Page 1

Date : 10-AUG-2010 01:21

Client ID:

Instrument: fid3b.i

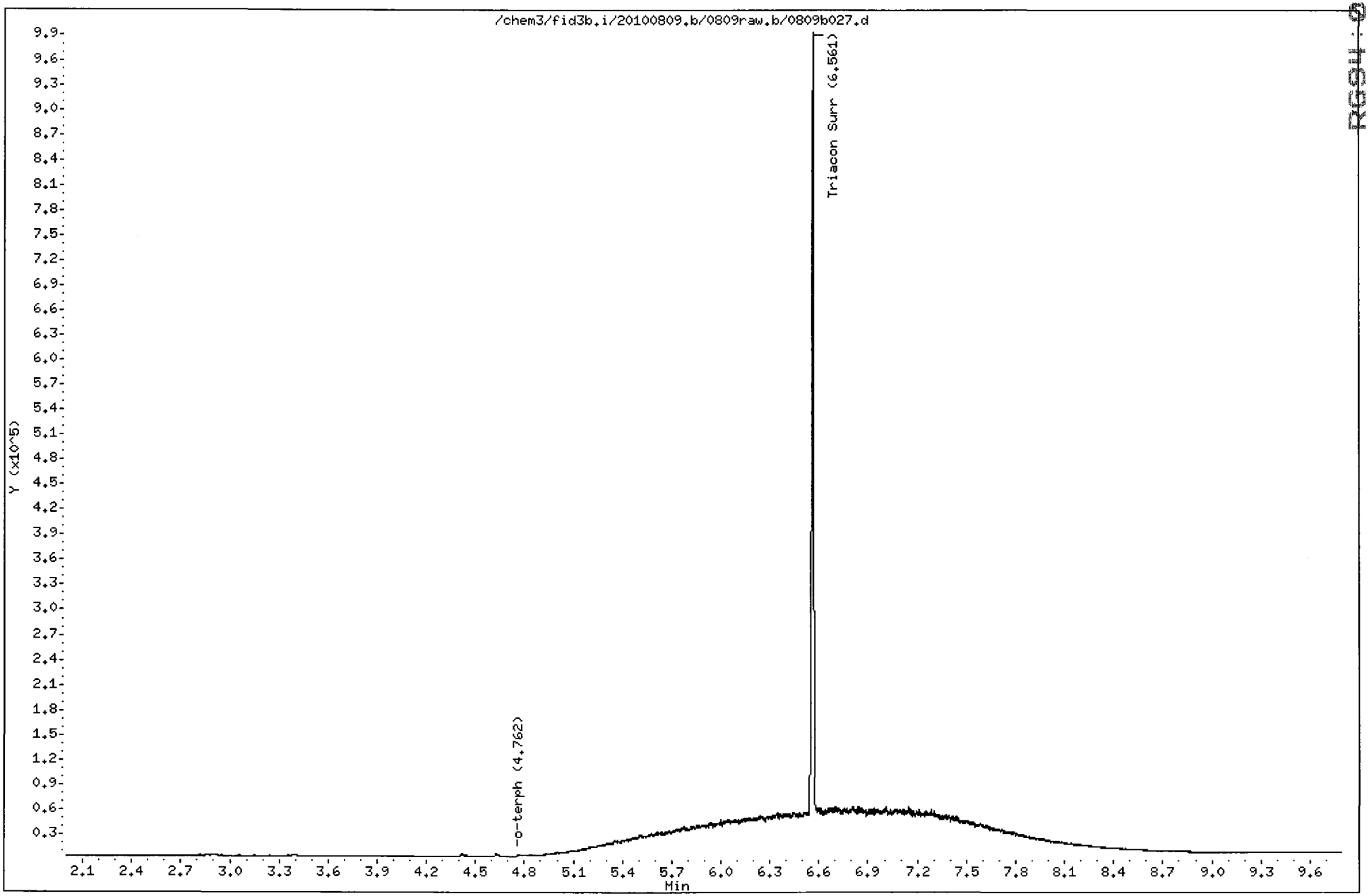
Sample Info: MOIL#3

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RG91-91362



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b027.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: MOIL#3
Client ID:
Injection: 10-AUG-2010 01:21
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	47998	2
C8	----				DIESEL (C12-C24)	679708	32
C10	2.855	0.001	1064	1026	M.OIL (C24-C38)	5613875	465
C12	3.466	0.002	703	428	AK-102 (C10-C25)	816016	34
C14	3.922	-0.001	491	142	AK-103 (C25-C36)	4932905	552
C16	4.317	-0.003	323	140	OR.DIES (C10-C28)	2165193	103
C18	4.675	0.002	622	85	OR.MOIL (C28-C40)	4520722	401
C20	4.996	0.001	4144	813			
C22	5.294	0.000	14749	4038	STODDARD (C8-C12)	47998	2
C24	5.601	-0.001	27522	7637			
C25	5.763	0.002	35326	28914			
C26	5.927	0.004	38988	11294			
C28	6.244	0.002	49209	17058			
C32	6.854	-0.001	55890	19064			
C34	7.140	-0.001	54707	17343	CREOSOT (C8-C22)	311639	49
Filter Peak	----						
C36	7.412	-0.001	48226	21091	BUNKERC (C10-C38)	6325896	732
o-terph	4.762	0.001	1421	1834	JET-A (C10-C18)	68402	4
Triacon Surr	6.561	0.003	935580	776638	IT.MOIL (C24-C40)	6750531	314

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1834	0.1	0.2
Triacontane	776638	46.4	103.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

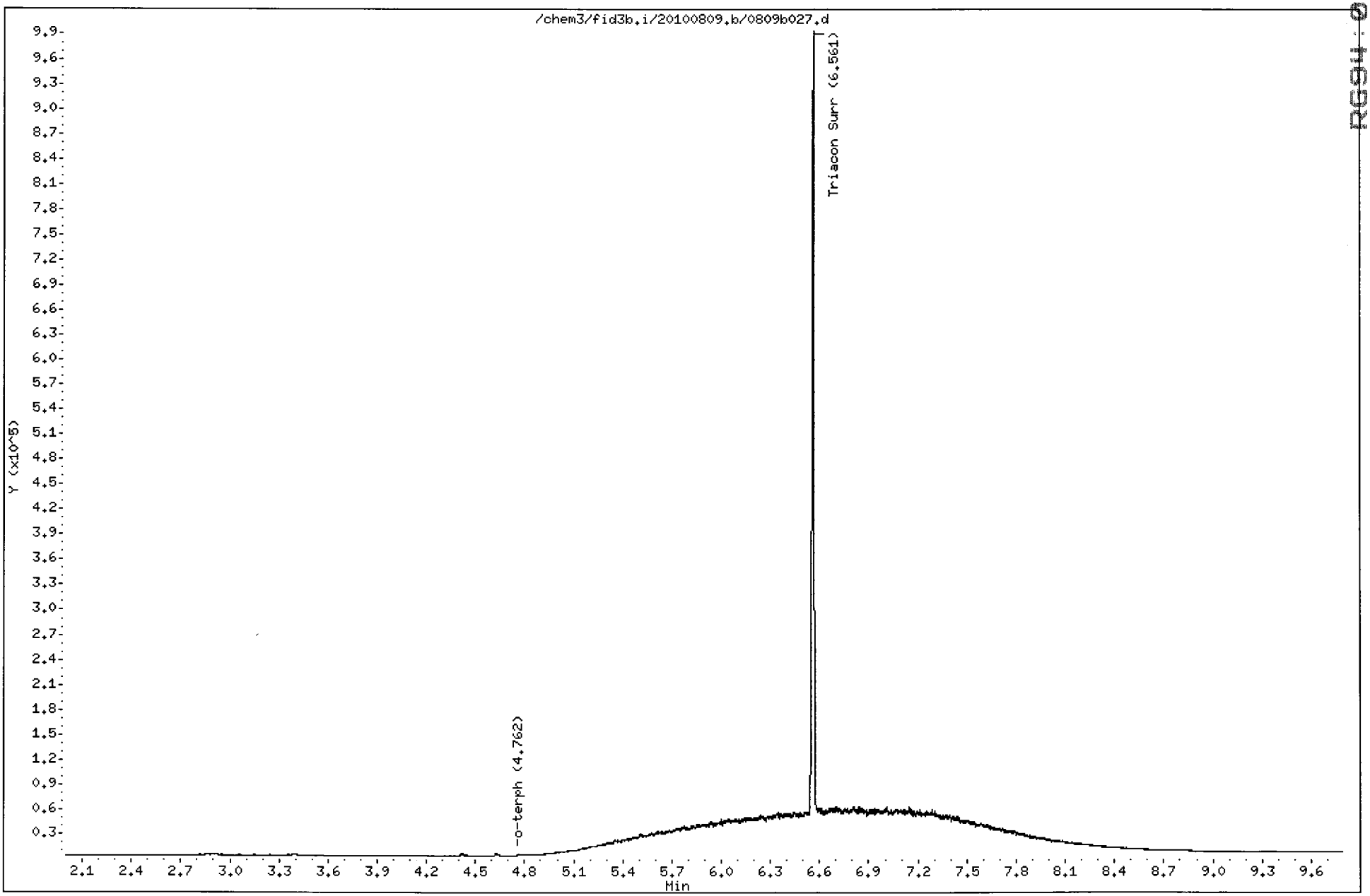
Data File: /chem3/fid3b.i/20100809.b/0809b027.d
Date : 10-AUG-2010 01:21
Client ID:
Sample Info: MOIL#3

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-01361



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b028.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94MBW1
Client ID: RG94MBW1
Injection: 10-AUG-2010 01:40
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	62329	2
C8	----				DIESEL (C12-C24)	67991	3
C10	2.854	-0.001	1065	1067	M.OIL (C24-C38)	78877	7
C12	3.465	0.000	884	208	AK-102 (C10-C25)	107794	4
C14	3.922	-0.001	598	175	AK-103 (C25-C36)	60007	7
C16	4.317	0.000	529	104	OR.DIES (C10-C28)	110410	5
C18	4.666	-0.008	807	933	OR.MOIL (C28-C40)	98770	9
C20	4.992	-0.002	742	362			
C22	5.292	0.000	334	152	STODDARD (C8-C12)	62329	2
C24	5.601	0.000	99	40			
C25	5.757	-0.004	127	89			
C26	5.923	0.003	44	5			
C28	6.244	0.002	326	310			
C32	6.866	0.012	1590	3129			
C34	7.137	-0.001	957	977	CREOSOT (C8-C22)	127748	20
Filter Peak	----						
C36	7.406	-0.003	5017	4474	BUNKERC (C10-C38)	186296	22
o-terph	4.762	0.003	1506952	858289	JET-A (C10-C18)	88215	6
Triacon Surr	6.560	0.001	807996	712959	IT.MOIL (C24-C40)	814720	38

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	858289	43.1	95.7
Triacontane	712959	42.6	94.7

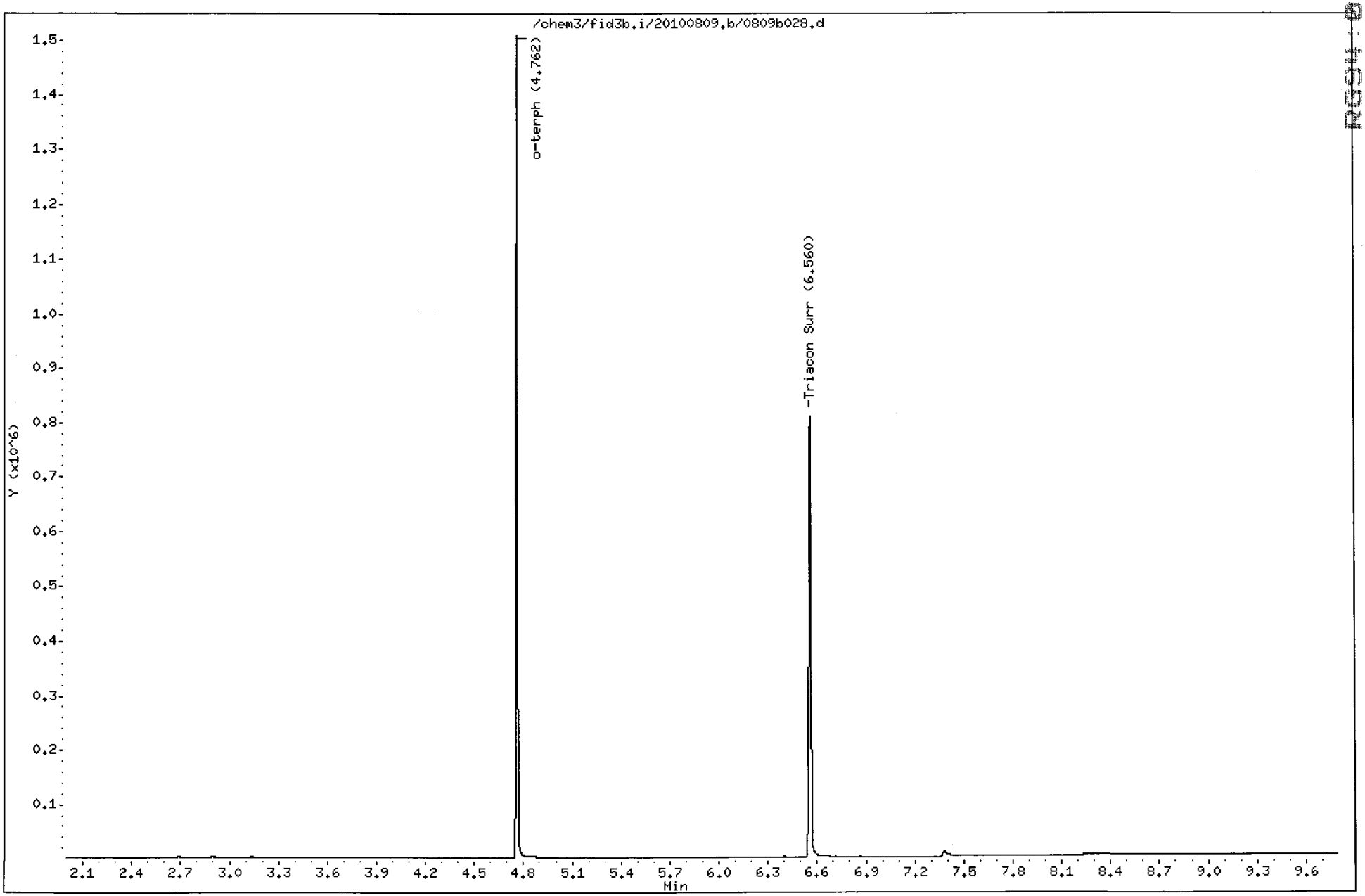
8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b028.d
Date : 10-AUG-2010 01:40
Client ID: RG94MBW1
Sample Info: RG94MBW1

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00

Column phase: RTX-1



RG94-01366

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b029.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94LCSW1
Client ID: RG94LCSW1
Injection: 10-AUG-2010 01:59
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	2507763	92
C8	----				DIESEL (C12-C24)	19616519	917
C10	2.855	0.000	87555	62654	M.OIL (C24-C38)	264826	22
C12	3.465	0.001	276323	195210	AK-102 (C10-C25)	21723420	901
C14	3.924	0.001	537619	411125	AK-103 (C25-C36)	203160	23
C16	4.322	0.005	931674	824943	OR.DIES (C10-C28)	21883610	1038
C18	4.676	0.003	860282	700673	OR.MOIL (C28-C40)	69189	6
C20	4.997	0.002	544517	399712			
C22	5.294	0.002	237843	204793	STODDARD (C8-C12)	2507763	91
C24	5.603	0.001	65374	68326			
C25	5.762	0.001	26554	34717			
C26	5.926	0.005	10276	15712			
C28	6.241	-0.001	2000	2539			
C32	6.845	-0.009	174	32			
C34	7.138	0.000	652	525	CREOSOT (C8-C22)	21406955	3347
Filter Peak	----						
C36	7.401	-0.008	5601	6487	BUNKERC (C10-C38)	21936134	2538
o-terph	4.763	0.003	1591031	1396614	JET-A (C10-C18)	16059581	1013
Triacon Surr	6.561	0.002	749738	676566	IT.MOIL (C24-C40)	958058	45

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1396614	70.1	155.7
Triacontane	676566	40.4	89.9

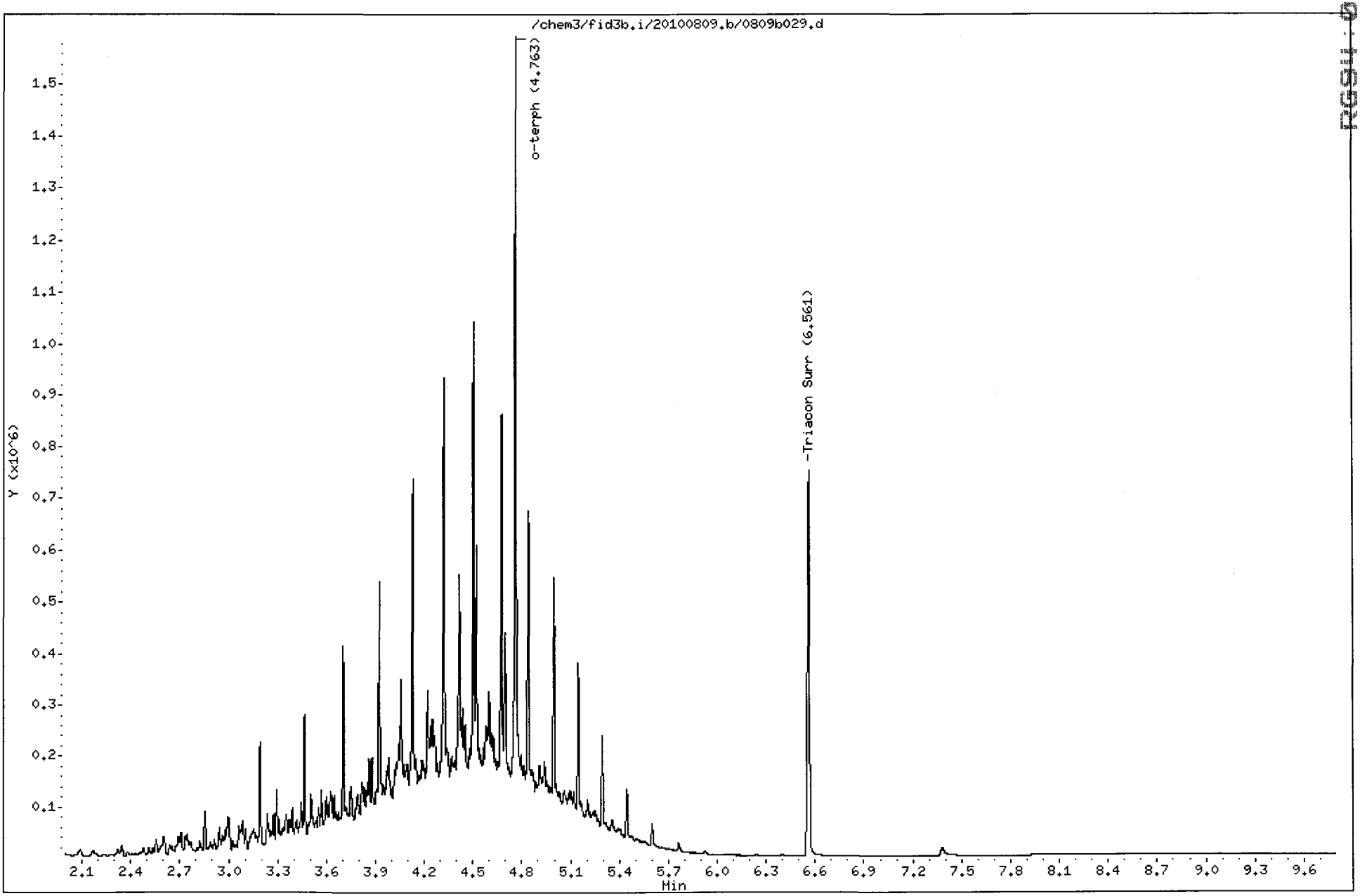
MW 8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809b029.d
Date : 10-AUG-2010 01:59
Client ID: RG94LCSW1
Sample Info: RG94LCSW1

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00

Column phase: RTX-1



RG94-01368

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b029.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94LCSW1
Client ID: RG94LCSW1
Injection: 10-AUG-2010 01:59
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	2507763	92
C8	----				DIESEL (C12-C24)	20259182	947
C10	2.855	0.000	87555	62654	M.OIL (C24-C38)	264826	22
C12	3.465	0.001	276323	195210	AK-102 (C10-C25)	22366082	928
C14	3.924	0.001	537619	411125	AK-103 (C25-C36)	203160	23
C16	4.322	0.005	931674	824943	OR.DIES (C10-C28)	22526273	1068
C18	4.676	0.003	860282	700673	OR.MOIL (C28-C40)	69189	6
C20	4.997	0.002	544517	399712			
C22	5.294	0.002	237843	204793	STODDARD (C8-C12)	2507763	91
C24	5.603	0.001	65374	68326			
C25	5.762	0.001	26554	34717			
C26	5.926	0.005	10276	15712			
C28	6.241	-0.001	2000	2539			
C32	6.845	-0.009	174	32			
C34	7.138	0.000	652	525	CREOSOT (C8-C22)	22049618	3447
Filter Peak	----						
C36	7.401	-0.008	5601	6487	BUNKERC (C10-C38)	22578796	2612
o-terph	4.763	0.003	1354578	757634	JET-A (C10-C18)	16059581	1013
Triacon Surr	6.561	0.002	749738	676566	IT.MOIL (C24-C40)	958058	45

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	757634	38.0	84.5
Triacontane	676566	40.4	89.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b029.d

Date : 10-AUG-2010 01:59

Client ID: RG94LCSW1

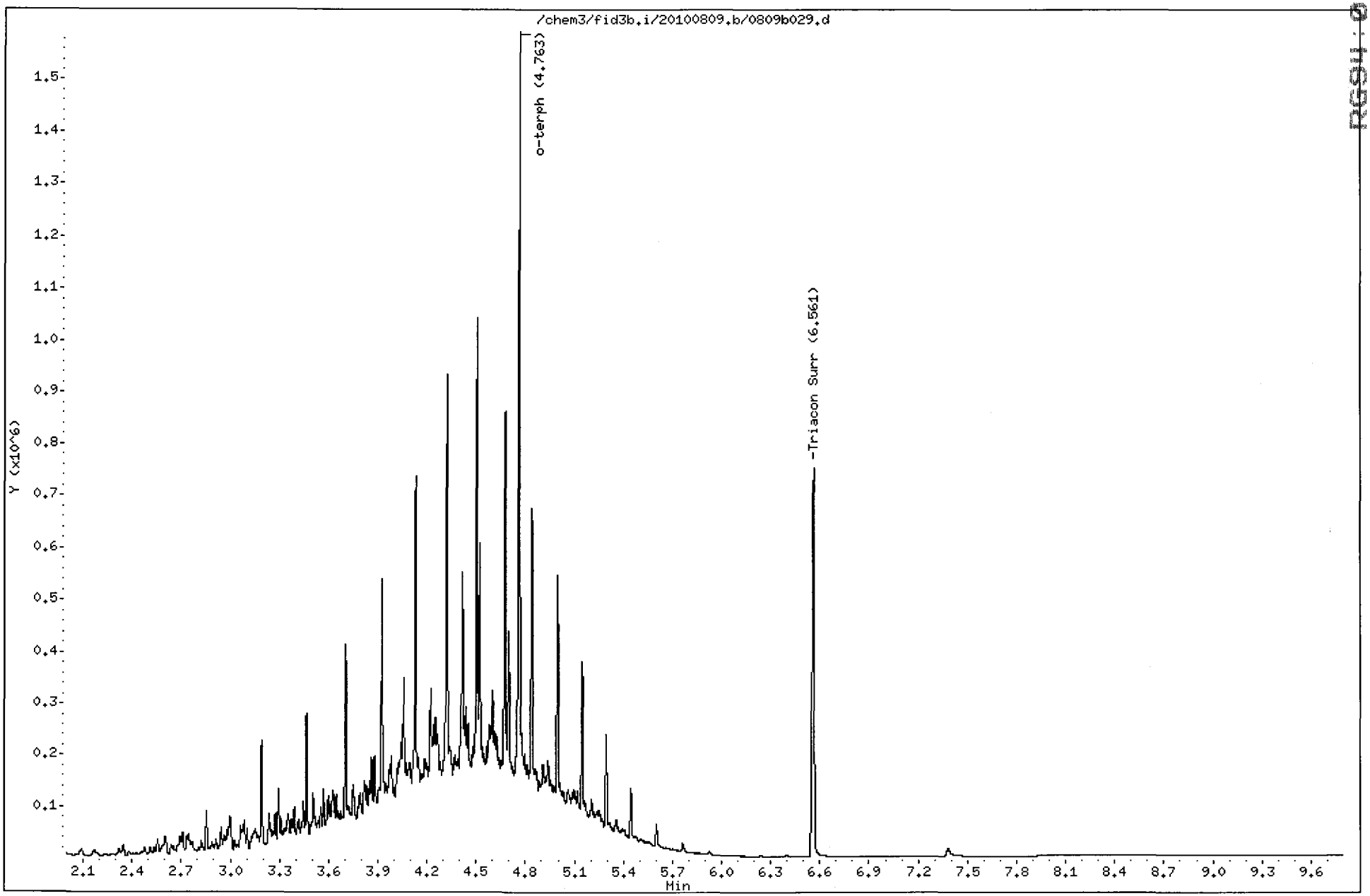
Sample Info: RG94LCSW1

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b030.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94LCSDW1
Client ID: RG94LCSDW1
Injection: 10-AUG-2010 02:18
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	2697327	99
C8	----				DIESEL (C12-C24)	22500464	1052
C10	2.856	0.001	97657	67277	M.OIL (C24-C38)	320415	27
C12	3.466	0.001	289794	193042	AK-102 (C10-C25)	24778719	1028
C14	3.925	0.002	599684	403474	AK-103 (C25-C36)	245449	27
C16	4.323	0.005	1060024	923157	OR.DIES (C10-C28)	24958628	1183
C18	4.677	0.003	942018	760103	OR.MOIL (C28-C40)	92184	8
C20	4.997	0.002	572513	472577			
C22	5.293	0.001	252232	219607	STODDARD (C8-C12)	2697327	97
C24	5.602	0.001	69688	80892			
C25	5.761	-0.001	29716	41439			
C26	5.924	0.003	10965	15817			
C28	6.243	0.002	1851	2466			
C32	6.861	0.008	1260	1744			
C34	7.137	-0.001	519	564	CREOSOT (C8-C22)	24406201	3816
Filter Peak	----						
C36	7.410	0.000	4963	1463	BUNKERC (C10-C38)	25035346	2897
o-terph	4.764	0.005	1543050	795526	JET-A (C10-C18)	17857924	1127
Triacon Surr	6.558	-0.001	834451	728969	IT.MOIL (C24-C40)	1064850	50

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	795526	39.9	88.7
Triacontane	728969	43.6	96.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b030.d

Date : 10-AUG-2010 02:18

Client ID: RG94LCSDW1

Sample Info: RG94LCSDW1

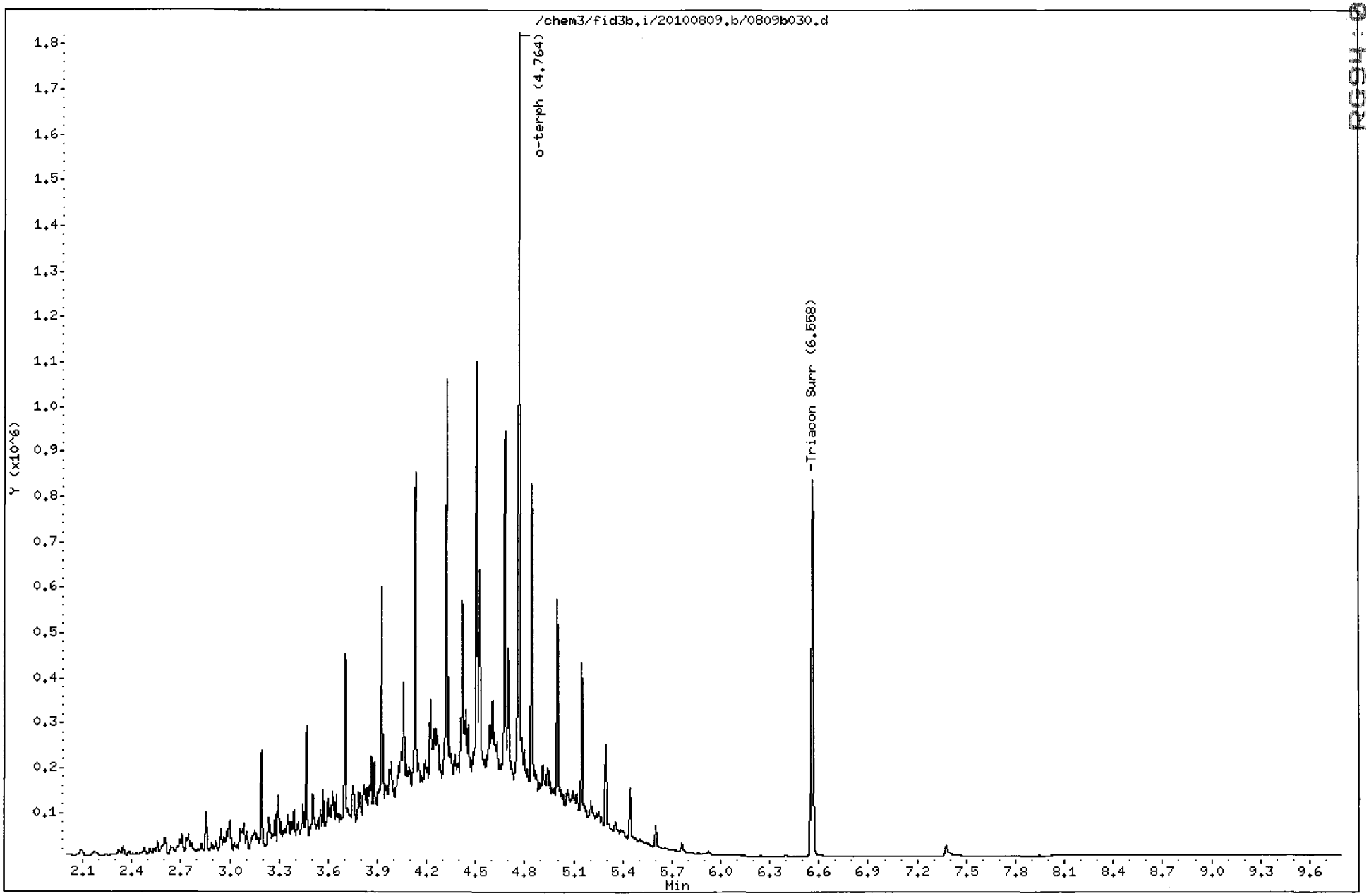
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RG94-01372



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b030.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94LCSDW1
Client ID: RG94LCSDW1
Injection: 10-AUG-2010 02:18
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	2697327	99
C8	----				DIESEL (C12-C24)	21986796	1028
C10	2.856	0.001	97657	67277	M.OIL (C24-C38)	320415	27
C12	3.466	0.001	289794	193042	AK-102 (C10-C25)	24265050	1007
C14	3.925	0.002	599684	403474	AK-103 (C25-C36)	245449	27
C16	4.323	0.005	1060024	923157	OR.DIES (C10-C28)	24444960	1159
C18	4.677	0.003	942018	760103	OR.MOIL (C28-C40)	92184	8
C20	4.997	0.002	572513	472577			
C22	5.293	0.001	252232	219607	STODDARD (C8-C12)	2697327	97
C24	5.602	0.001	69688	80892			
C25	5.761	-0.001	29716	41439			
C26	5.924	0.003	10965	15817			
C28	6.243	0.002	1851	2466			
C32	6.861	0.008	1260	1744			
C34	7.137	-0.001	519	564	CREOSOT (C8-C22)	23892532	3736
Filter Peak	----						
C36	7.410	0.000	4963	1463	BUNKERC (C10-C38)	24521677	2837
o-terph	4.764	0.005	1824636	1304504	JET-A (C10-C18)	17857924	1127
Triacon Surr	6.558	-0.001	834451	728969	IT.MOIL (C24-C40)	1064850	50

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1304504	65.4	145.4
Triacontane	728969	43.6	96.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

8/11/10

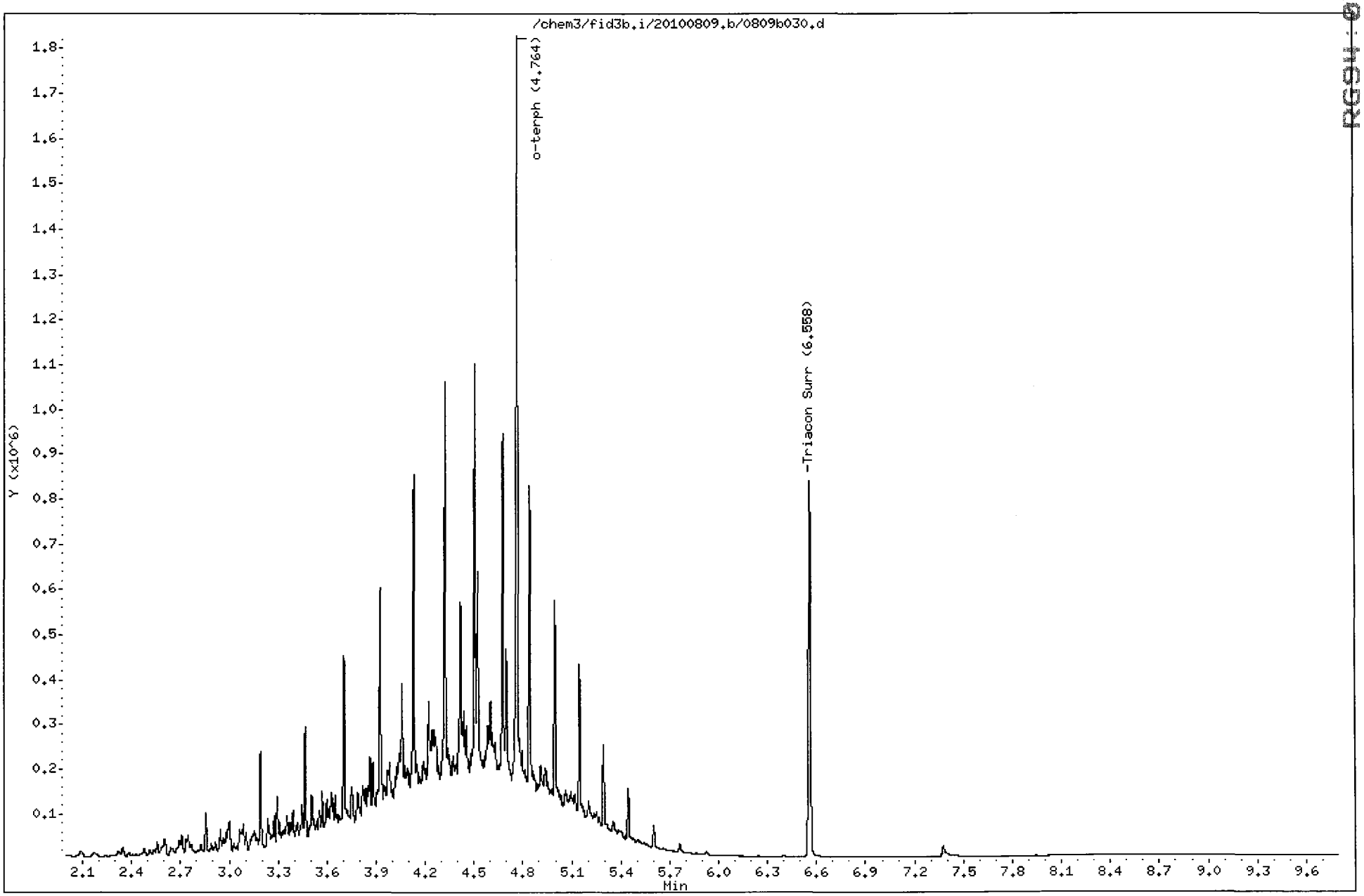
Data File: /chem3/fid3b.i/20100809.b/0809b030.d
Date : 10-AUG-2010 02:18
Client ID: RG94LCSDW1
Sample Info: RG94LCSDW1

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

Column phase: RTX-1

RG94-61371



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b031.d
Method: /chem3/fid3b.i/20100810.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: RG94K
Client ID: MW12-ER-080210
Injection: 10-AUG-2010 02:37
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	56216	2
C8	----				DIESEL (C12-C24)	68497	3
C10	2.855	0.000	1046	1569	M.OIL (C24-C38)	92588	8
C12	3.463	-0.001	818	207	AK-102 (C10-C25)	106078	4
C14	3.921	-0.001	505	189	AK-103 (C25-C36)	74229	8
C16	4.311	-0.007	543	225	OR.DIES (C10-C28)	109915	5
C18	4.676	0.002	648	636	OR.MOIL (C28-C40)	111961	10
C20	4.993	-0.002	802	441			
C22	5.291	-0.001	469	152	STODDARD (C8-C12)	56216	2
C24	5.598	-0.003	157	58			
C25	5.760	-0.001	136	54			
C26	5.920	-0.001	66	14			
C28	6.238	-0.003	1155	1197			
C32	6.864	0.010	1634	2769			
C34	7.139	0.001	1204	1252	CREOSOT (C8-C22)	121571	19
Filter Peak	----						
C36	7.430	0.020	3669	1833	BUNKERC (C10-C38)	198293	23
o-terph	4.762	0.002	1699190	932157	JET-A (C10-C18)	82686	5
Triacon Surr	6.560	0.001	844536	766389	IT.MOIL (C24-C40)	882560	41

Range Times: NW Diesel(3.514 - 5.651) NW Gas(0.971 - 3.514) NW M.Oil(5.651 - 7.718)
AK102(2.805 - 5.711) AK103(5.711 - 7.460) Jet A(2.805 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	932157	46.8	103.9
Triacontane	766389	45.8	101.8

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

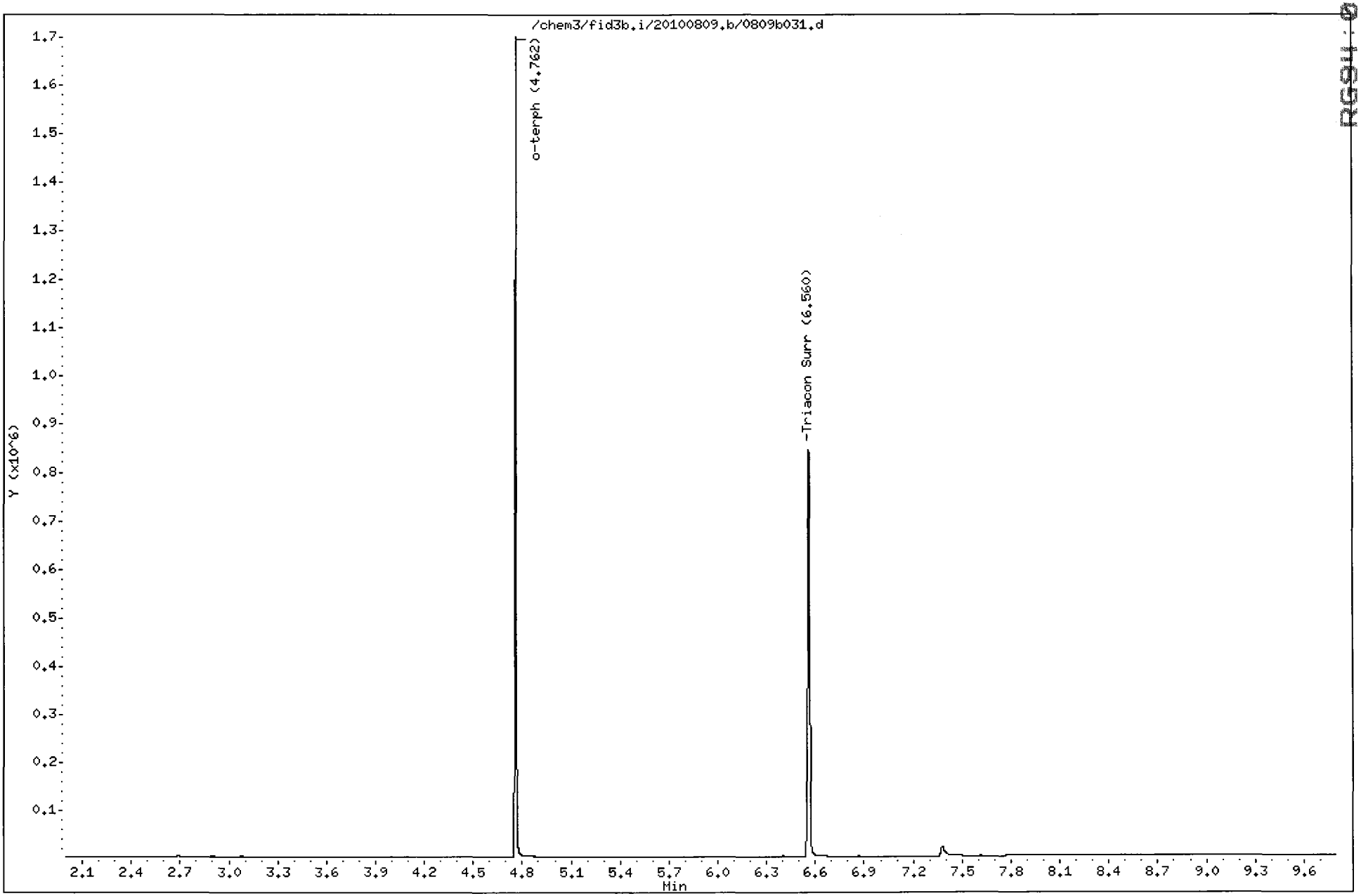
Data File: /chem3/fid3b.i/20100809.b/0809b031.d
Date : 10-AUG-2010 02:37
Client ID: MW12-ER-080210
Sample Info: RG94K

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS
Column diameter: 2.00

RG94-91376



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b032.d ARI ID: DIESEL#4
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 10-AUG-2010 02:56
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	820998	30
C8	----				DIESEL (C12-C24)	5177047	242
C10	2.855	0.001	27360	20899	M.OIL (C24-C38)	72673	6
C12	3.466	0.002	69718	50055	AK-102 (C10-C25)	5846484	243
C14	3.924	0.001	138215	117373	AK-103 (C25-C36)	49926	6
C16	4.318	-0.002	234178	191587	OR.DIES (C10-C28)	5887329	279
C18	4.674	0.001	205682	163209	OR.MOIL (C28-C40)	34245	3
C20	4.997	0.002	128919	100841			
C22	5.295	0.002	52875	49116	STODDARD (C8-C12)	820998	30
C24	5.606	0.004	10201	12298			
C25	5.761	-0.001	2889	1023			
C26	5.923	0.000	1323	566			
C28	6.242	0.000	266	115			
C32	6.854	-0.001	45	9			
C34	7.137	-0.004	114	31	CREOSOT (C8-C22)	5813638	909
Filter Peak	----						
C36	7.414	0.001	300	87	BUNKERC (C10-C38)	5904531	683
o-terph	4.763	0.002	1617846	1040621	JET-A (C10-C18)	4397858	278
Triacon Surr	6.556	-0.003	91	41	IT.MOIL (C24-C40)	89756	4

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1040621	52.2	116.0
Triacontane	41	0.0	0.0

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100809.b/0809raw.b/0809b032.d

Page 1

Date : 10-AUG-2010 02:56

Client ID:

Instrument: fid3b.i

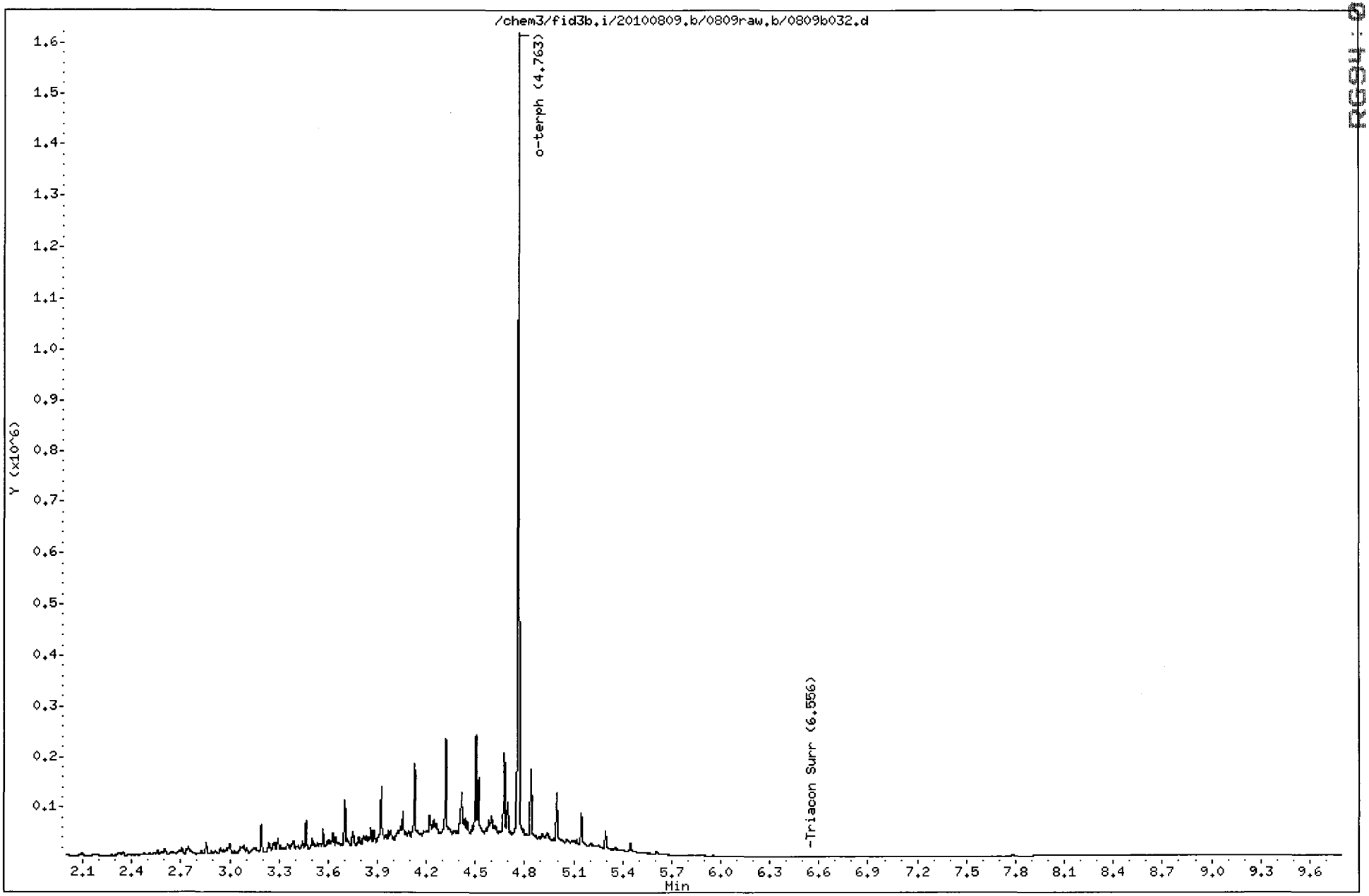
Sample Info: DIESEL#4

Operator: MS

Column phase: RTX-1

Column diameter: 2.00

RGGH-01378



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809b032.d
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/11/2010
Macro: FID:3B073010

ARI ID: DIESEL#4
Client ID:
Injection: 10-AUG-2010 02:56
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	820998	30
C8	----				DIESEL (C12-C24)	5325095	249
C10	2.855	0.001	27360	20899	M.OIL (C24-C38)	72673	6
C12	3.466	0.002	69718	50055	AK-102 (C10-C25)	5994532	249
C14	3.924	0.001	138215	117373	AK-103 (C25-C36)	49926	6
C16	4.318	-0.002	234178	191587	OR.DIES (C10-C28)	6035377	286
C18	4.674	0.001	205682	163209	OR.MOIL (C28-C40)	34245	3
C20	4.997	0.002	128919	100841			
C22	5.295	0.002	52875	49116	STODDARD (C8-C12)	820998	30
C24	5.606	0.004	10201	12298			
C25	5.761	-0.001	2889	1023			
C26	5.923	0.000	1323	566			
C28	6.242	0.000	266	115			
C32	6.854	-0.001	45	9			
C34	7.137	-0.004	114	31	CREOSOT (C8-C22)	5961686	932
Filter Peak	----						
C36	7.414	0.001	300	87	BUNKERC (C10-C38)	6052579	700
o-terph	4.763	0.002	1552435	893685	JET-A (C10-C18)	4397858	278
Triacon Surr	6.556	-0.003	91	41	IT.MOIL (C24-C40)	89756	4

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	893685	44.8	99.6
Triacontane	41	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst _____ Date 8/11/10

Data File: /chem3/fid3b.i/20100809.b/0809b032.d

Date : 10-AUG-2010 02:56

Client ID:

Sample Info: DIESEL#4

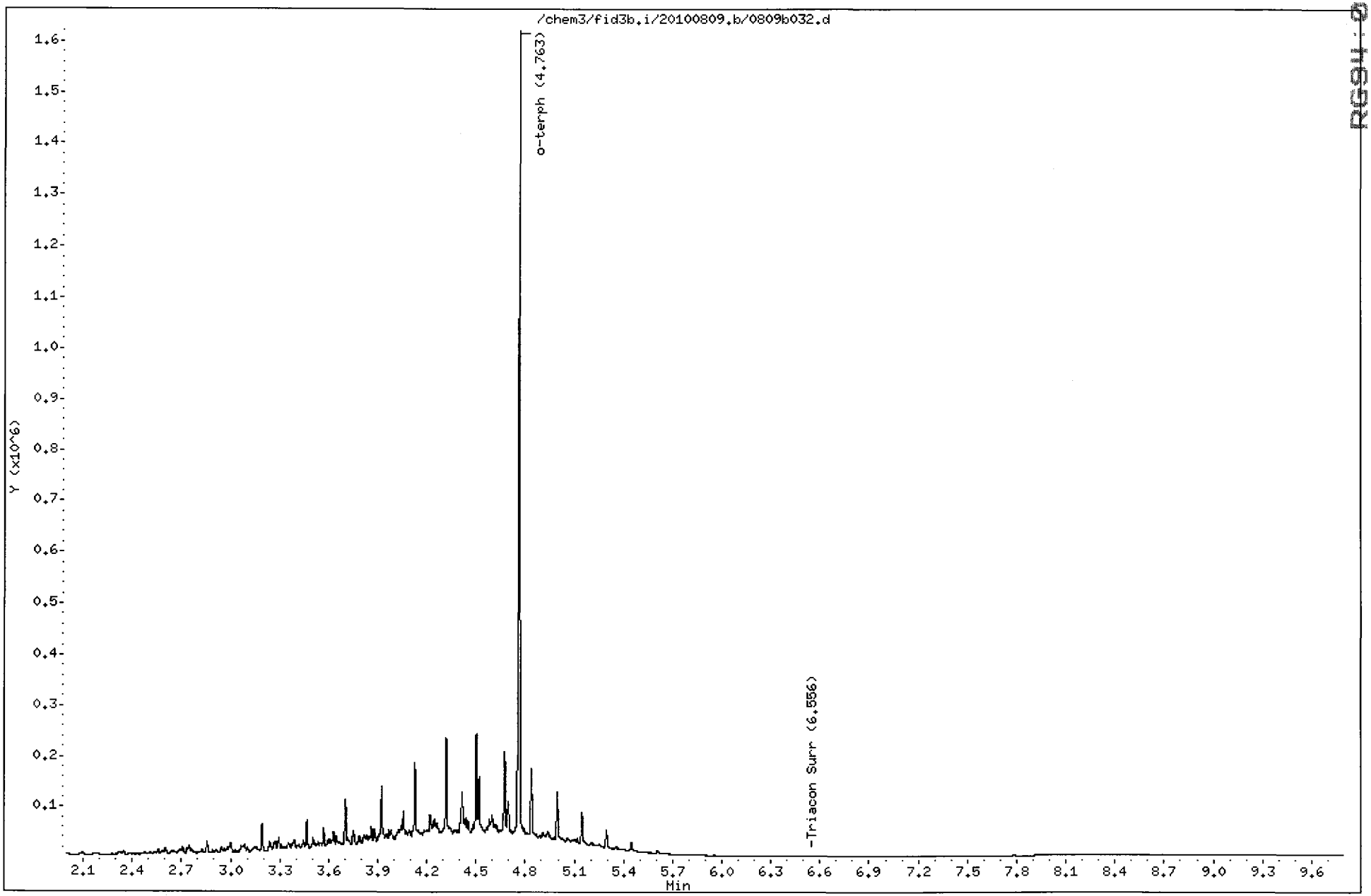
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

RSSH-91380



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100809.b/0809raw.b/0809b033.d ARI ID: MOIL#4
Method: /chem3/fid3b.i/20100809.b/ftphfid3b.m Client ID:
Instrument: fid3b.i Injection: 10-AUG-2010 03:15
Operator: MS Dilution Factor: 1
Report Date: 08/11/2010
Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	49271	2
C8	----				DIESEL (C12-C24)	702303	33
C10	2.857	0.003	1142	982	M.OIL (C24-C38)	5570818	461
C12	3.459	-0.005	751	396	AK-102 (C10-C25)	842457	35
C14	3.922	-0.002	495	165	AK-103 (C25-C36)	4899492	549
C16	4.319	-0.001	334	113	OR.DIES (C10-C28)	2233591	106
C18	4.679	0.006	708	461	OR.MOIL (C28-C40)	4458110	395
C20	4.999	0.005	4201	1153			
C22	5.295	0.001	15164	4964	STODDARD (C8-C12)	49271	2
C24	5.605	0.003	29140	19256			
C25	5.765	0.003	34998	14092			
C26	5.925	0.001	39629	23262			
C28	6.237	-0.005	46806	27603			
C32	6.853	-0.002	59471	23899			
C34	7.141	0.000	59189	46676	CREOSOT (C8-C22)	319126	50
Filter Peak	----						
C36	7.413	0.001	48525	30260	BUNKERC (C10-C38)	6306587	730
o-terph	4.762	0.001	1468	1810	JET-A (C10-C18)	72368	5
Triacon Surr	6.561	0.002	963673	955024	IT.MOIL (C24-C40)	6910956	322

Range Times: NW Diesel(3.514 - 5.652) NW Gas(0.975 - 3.514) NW M.Oil(5.652 - 7.720)
AK102(2.804 - 5.712) AK103(5.712 - 7.462) Jet A(2.804 - 4.723)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1810	0.1	0.2
Triacontane	955024	57.1	126.9

8/11/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009