SIM Semivolatile Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JU43 Project: T4 EARLY ACTION

Instrument ID: NT1 Calibration Date: 09/04/06

LAB FILE ID: RRF0.1=IC0904C RRF0.5=IC0904E RRF1 =IC0904F
RRF2.5=IC0904A RRF5 =IC0904D RRF10 =IC0904B

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	$\overline{RRF}$	%RSD /R^2	
Naphthalene	1.042	0.927	1.035	0.972	0.911	0.878	0.961	7.0	
2-Methylnaphthalene	0.488	0.491	0.544	0.548	0.491	0.503	0.511	5.5	
Acenaphthylene	1.651	1.627	1.718	1.722	1.594	1.546	1.643	4.2	
Acenaphthene	1.025	0.964	1.035	1.029	0.963	0.938	0.992	4.3	*
Dibenzofuran	1.428	1.423	1.485	1.425	1.355	1.346	1.410	3.7	
Fluorene	1.037	1.065	1.146	1.119	1.054	1.039	1.077	4.2	
Phenanthrene	1.165	1.066	1.124	1.091	1.013	1.046	1.084	5.1	
Anthracene	1.289	1.042	1.134	1.072	0.980	1.043	1.093	9.9	
Fluoranthene	0.938	0.895	1.008	0.958	0.867	0.885	0.925	5.7	*
Pyrene	1.504	1.401	1.462	1.400	1.338	1.341	1.408	4.7	
Benzo(a)anthracene	1.359	1.152	1.245	1.187	1.125	1.126	1.199	7.6	
Chrysene	1.200	1.083	1.156	1.139	1.082	1.100	1.127	4.2	
Benzo(b)fluoranthene	1.308	1.129	1.132	1.154	0.970	1.104	1.133	9.5	
Benzo(k)fluoranthene	1.179	1.010	1.289	1.234	1.224	1.160	1.183	8.1	
Benzo(a)pyrene	1.254	0.950	0.963	1.013	0.952	0.996	1.021	11.4	*
Indeno(1,2,3-cd)pyrene	1.170	0.986	1.125	1.111	1.064	1.123	1.096	5.8	
Dibenz(a,h)anthracene	0.886	0.791	0.918	0.915	0.888	0.935	0.889	5.8	
Benzo(g,h,i)perylene	1.054	0.870	1.001	0.967	0.925	0.998	0.969	6.7	
1-Methylnaphthalene	0.594	0.533	0.573	0.571	0.534	0.520	0.554	5.2	
Biphenyl	1.320	1.164	1.289	1.252	1.214	1.202	1.240	4.7	
2,6-Dimethylnaphthalene	0.900	0.908	1.008	0.968	0.926	0.910	0.937	4.5	
2,3,5-Trimethylnaphthalene	0.777	0.726	0.770	0.756	0.698	0.713	0.740	4.4	
1-Methylphenanthrene	0.940	0.936	1.003	0.940	0.922	0.922	0.944	3.2	
Benzo(e)pyrene	1.276	1.055	1.170	1.135	1.076	1.116	1.138	7.0	
Perylene	1.296	0.955	1.027	1.083	0.983	1.028	1.062	11.5	
2-Methylnaphthalene-d10	0.546	0.455	0.529	0.512	0.473	0.460	0.496	7.8	
Dibenz(a,h)anthrancene-d14	0.644	0.590	0.667	0.690	0.636	0.705	0.655	6.3	

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-SEP-2006 11:35
End Cal Date : 04-SEP-2006 13:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20060904A.b/simpna.m
Cal Date : 05-Sep-2006 08:08 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20060904A.b/ic0904c.d
Level 2: /chem3/nt1.i/20060904A.b/ic0904e.d
Level 3: /chem3/nt1.i/20060904A.b/ic0904f.d
Level 4: /chem3/nt1.i/20060904A.b/ic0904a.d
Level 5: /chem3/nt1.i/20060904A.b/ic0904d.d
Level 6: /chem3/nt1.i/20060904A.b/ic0904b.d

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
53 Perylene	1.29554	0.95496	1.02665	1.08334	0.98324	1.02755	1.06188	11.541
52 Benzo(e)pyrene	1.27650	1.05483	1.16951	1.13511	1.07644	1.11570	1.13801	6.962
51 1-Methylphenanthrene	0.93977	0.93626	1.00327	0.94044	0.92201	0.92223	0.94400	3.199
50 2,3,5-Trimethylnaphthalene	0.77722	0.72635	0.76984	0.75585	0.69799	0.71316	0.74007	4.357
49 2,6-Dimethylnaphthalene	0.90026	0.90797	1.00828	0.96812	0.92628	0.91026	0.93686	4.547
48 Biphenyl	1.31991	1.16424	1.28895	1.25217	1.21437	1.20177	1.24024	4.672
2 Naphthalene	1.04200	0.92735	1.03531	0.97172	0.91123	0.87764	0.96088	7.021
4 2-Methylnaphthalene	0.48769	0.49064	0.54441	0.54761	0.49100	0.50280	0.51069	5.455
5 1-Methylnaphthalene	0.59354	0.53284	0.57335	0.57105	0.53382	0.52049	0.55418	5.234
6 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Acenaphthylene	1.65100	1.62739	1.71810	1.72258	1.59408	1.54557	1.64312	4.231
9 Acenaphthene	1.02533	0.96459	1.03474	1.02936	0.96283	0.93751	0.99240	4.252
10 Dibenzofuran	1.42825	1.42316	1.48477	1.42519	1.35509	1.34584	1.41038	3.679
11 Fluorene	1.03730	1.06510	1.14592	1.11902	1.05416	1.03873	1.07671	4.199
12 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Pentachlorophenol(ester)	0.08150	0.07097	0.08174	0.07640	0.06863	0.06807	0.07455	8.341
16 Phenanthrene	1.16474	1.06605	1.12443	1.09074	1.01292	1.04592	1.08413	5.056
17 Anthracene	1.28883	1.04184	1.13452	1.07226	0.98024	1.04279	1.09341	9.880
18 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Fluoranthene	0.93823	0.89504	1.00831	0.95824	0.86711	0.88544	0.92539	5.725
20 Pyrene	1.50359	1.40102	1.46225	1.40012	1.33763	1.34103	1.40761	4.672

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-SEP-2006 11:35
End Cal Date : 04-SEP-2006 13:38
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20060904A.b/simpna.m
Cal Date : 05-Sep-2006 08:08 van
Curve Type : Average

	Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
	21 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	22 Benzo(a)anthracene	1.35926	1.15161	1.24533	1.18691	1.12549	1.12583	1.19907	7.550
	24 Chrysene	1.20013	1.08336	1.15598	1.13912	1.08173	1.10028	1.12677	4.163
	25 Bis-2-Ethylhexylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	26 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	28 Benzo(b)fluoranthene	1.30752	1.12921	1.13165	1.15371	0.96956	1.10373	1.13256	9.548
	29 Benzo(k)fluoranthene	1.17919	1.00990	1.28866	1.23441	1.22431	1.16057	1.18284	8.108
	30 Benzo(a)pyrene	1.25418	0.95013	0.96328	1.01338	0.95226	0.99584	1.02151	11.428
	33 Indeno(1,2,3-cd)pyrene	1.17059	0.98646	1.12479	1.11116	1.06361	1.12314	1.09663	5.826
	34 Dibenz(a,h)anthracene	0.88586	0.79106	0.91806	0.91461	0.88800	0.93522	0.88880	5.790
	35 Benzo(g,h,i)perylene	1.05391	0.87020	1.00117	0.96703	0.92496	0.99766	0.96916	6.651
$	3 2-Methylnaphthalene-d10	0.54632	0.45482	0.52919	0.51213	0.47303	0.46011	0.49593	7.761
$	13 2,4,6-Tribromophenol(ester)	0.05043	0.05472	0.06377	0.05891	0.05406	0.05516	0.05618	8.189
$	32 Dibenz(a,h)anthrancene-d14	0.64413	0.58975	0.66722	0.68986	0.63654	0.70488	0.65540	6.316

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904a.d
Lab Smp Id: IC0904A
Inj Date : 04-SEP-2006 11:35
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904A
Misc Info : SIM2.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 11:35 Cal File: ic0904a.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.832	6.826	(1.000)	452281	2.00000	
	2 Naphthalene	128	6.850	6.850	(1.003)	549365	2.50000	2.500
$	3 2-Methylnaphthalene-d10	152	7.582	7.583	(1.110)	289535	2.50000	2.500
	4 2-Methylnaphthalene	142	7.624	7.618	(1.116)	309590	2.50000	2.500
	5 1-Methylnaphthalene	142	7.754	7.748	(1.135)	322843	2.50000	2.500
	7 Acenaphthylene	152	8.711	8.706	(0.980)	484625	2.50000	2.500
*	8 Acenaphthene-d10	164	8.889	8.889	(1.000)	225070	2.00000	
	9 Acenaphthene	153	8.930	8.925	(1.005)	289598	2.50000	2.500
	10 Dibenzofuran	168	9.113	9.114	(1.025)	400958	2.50000	2.500
	11 Fluorene	166	9.539	9.539	(1.073)	314823	2.50000	2.500
$	13 2,4,6-Tribromophenol(ester)	344	9.728	9.722	(0.909)	110724	12.5000	12.50
	14 Pentachlorophenol(ester)	280	10.342	10.343	(0.967)	143605	12.5000	12.50
*	15 Phenanthrene-d10	188	10.697	10.698	(1.000)	300728	2.00000	
	16 Phenanthrene	178	10.727	10.727	(1.003)	410021	2.50000	2.500
	17 Anthracene	178	10.786	10.780	(1.008)	403072	2.50000	2.500
	19 Fluoranthene	202	12.216	12.216	(1.142)	360211	2.50000	2.500
	20 Pyrene	202	12.506	12.506	(0.893)	380914	2.50000	2.500
	22 Benzo(a)anthracene	228	13.983	13.984	(0.998)	322907	2.50000	2.500
*	23 Chrysene-d12	240	14.007	14.001	(1.000)	217646	2.00000	
	24 Chrysene	228	14.036	14.037	(1.002)	309906	2.50000	2.500
	28 Benzo(b)fluoranthene	252	15.360	15.355	(0.964)	318258	2.50000	2.500
	29 Benzo(k)fluoranthene	252	15.396	15.390	(0.967)	340521	2.50000	2.500
	30 Benzo(a)pyrene	252	15.845	15.845	(0.995)	279547	2.50000	2.500
*	31 Perylene-d12	264	15.928	15.928	(1.000)	220685	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.854	17.837	(1.121)	306521	2.50000	2.500
$	32 Dibenz(a,h)anthrancene-d14	292	17.777	17.766	(1.116)	190302	2.50000	2.500
	34 Dibenz(a,h)anthracene	278	17.842	17.831	(1.120)	252302	2.50000	2.500

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.422	18.410	(1.157)	266761	2.50000	2.500
48 Biphenyl	154	8.162	8.156	(0.918)	352282	2.50000	2.500
49 2,6-Dimethylnaphthalene	156	8.351	8.351	(0.939)	272368	2.50000	2.500
50 2,3,5-Trimethylnaphthalene	170	9.373	9.374	(1.055)	212649	2.50000	2.500
51 1-Methylphenanthrene	192	11.501	11.495	(0.821)	255855	2.50000	2.500
52 Benzo(e)pyrene	252	15.768	15.763	(0.990)	313126	2.50000	2.500
53 Perylene	252	15.969	15.963	(1.003)	298847	2.50000	2.500

VTS
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904a.d
Lab Smp Id: IC0904A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM2.5

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	452281	0.00
8 Acenaphthene-d10	225070	112535	450140	225070	0.00
15 Phenanthrene-d10	300728	150364	601456	300728	0.00
23 Chrysene-d12	217646	108823	435292	217646	0.00
31 Perylene-d12	220685	110342	441370	220685	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	0.00
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.01	13.51	14.51	14.01	0.00
31 Perylene-d12	15.93	15.43	16.43	15.93	0.00

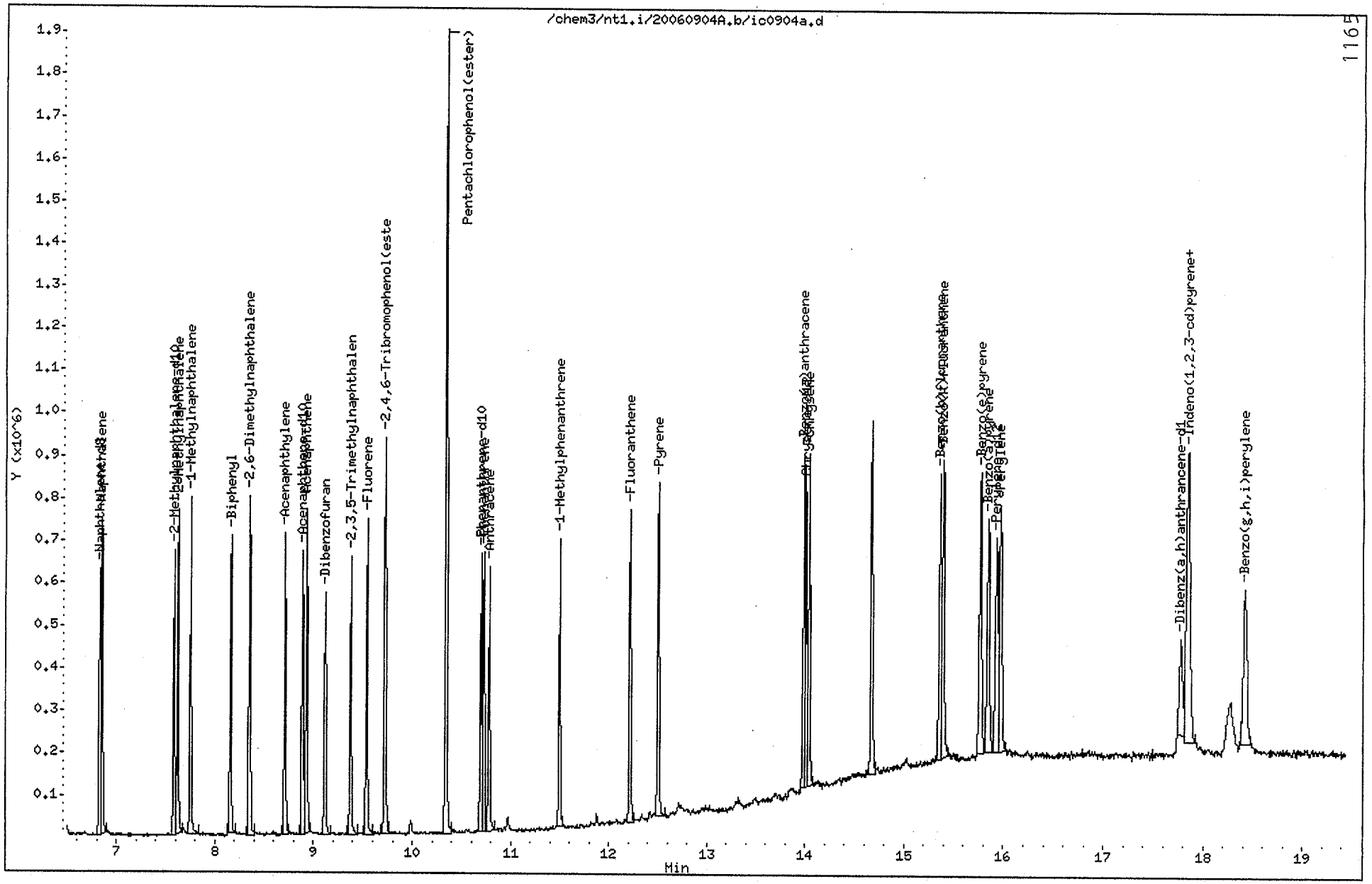
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/ic0904a.d
Date : 04-SEP-2006 11:35
Client ID:
Sample Info: IC0904A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904b.d
Lab Smp Id: IC0904B
Inj Date : 04-SEP-2006 11:59
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904B
Misc Info : SIM10
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 11:59 Cal File: ic0904b.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.829	6.826	(1.000)	488194	2.00000	
	2 Naphthalene	128	6.852	6.850	(1.003)	2142303	10.0000	9.491
$	3 2-Methylnaphthalene-d10	152	7.585	7.583	(1.111)	1123113	10.0000	9.465
	4 2-Methylnaphthalene	142	7.621	7.618	(1.116)	1227315	10.0000	9.573
	5 1-Methylnaphthalene	142	7.751	7.748	(1.135)	1270490	10.0000	9.537
	7 Acenaphthylene	152	8.708	8.706	(0.980)	1805554	10.0000	9.458
*	8 Acenaphthene-d10	164	8.886	8.889	(1.000)	233642	2.00000	
	9 Acenaphthene	153	8.927	8.925	(1.005)	1095213	10.0000	9.533
	10 Dibenzofuran	168	9.116	9.114	(1.026)	1572227	10.0000	9.714
	11 Fluorene	166	9.536	9.539	(1.073)	1213449	10.0000	9.628
$	13 2,4,6-Tribromophenol(ester)	344	9.731	9.722	(0.909)	413632	50.0000	48.36
	14 Pentachlorophenol(ester)	280	10.345	10.343	(0.967)	510416	50.0000	47.12
*	15 Phenanthrene-d10	188	10.700	10.698	(1.000)	299936	2.00000	
	16 Phenanthrene	178	10.729	10.727	(1.003)	1568546	10.0000	9.790
	17 Anthracene	178	10.783	10.780	(1.008)	1563845	10.0000	9.861
	19 Fluoranthene	202	12.219	12.216	(1.142)	1327878	10.0000	9.605
	20 Pyrene	202	12.508	12.506	(0.893)	1428026	10.0000	9.784
	22 Benzo(a)anthracene	228	13.986	13.984	(0.998)	1198872	10.0000	9.736
*	23 Chrysene-d12	240	14.010	14.001	(1.000)	212975	2.00000	
	24 Chrysene	228	14.039	14.037	(1.002)	1171663	10.0000	9.827
	28 Benzo(b)fluoranthene	252	15.363	15.355	(0.964)	1208834	10.0000	9.779
	29 Benzo(k)fluoranthene	252	15.398	15.390	(0.967)	1271088	10.0000	9.692
	30 Benzo(a)pyrene	252	15.848	15.845	(0.995)	1090670	10.0000	9.913
*	31 Perylene-d12	264	15.930	15.928	(1.000)	219046	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.869	17.837	(1.122)	1230096	10.0000	10.05
$	32 Dibenz(a,h)anthrancene-d14	292	17.780	17.766	(1.116)	772009	10.0000	10.11
	34 Dibenz(a,h)anthracene	278	17.857	17.831	(1.121)	1024285	10.0000	10.11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.430	18.410	(1.157)	1092668	10.0000	10.16
48 Biphenyl	154	8.159	8.156	(0.918)	1403917	10.0000	9.795
49 2,6-Dimethylnaphthalene	156	8.354	8.351	(0.940)	1063378	10.0000	9.692
50 2,3,5-Trimethylnaphthalene	170	9.376	9.374	(1.055)	833126	10.0000	9.709
51 1-Methylphenanthrene	192	11.498	11.495	(0.821)	982064	10.0000	9.902
52 Benzo(e)pyrene	252	15.771	15.763	(0.990)	1221944	10.0000	9.914
53 Perylene	252	15.972	15.963	(1.003)	1125407	10.0000	9.736

VTS
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904b.d
Lab Smp Id: IC0904B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM10

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	488194	7.94
8 Acenaphthene-d10	225070	112535	450140	233642	3.81
15 Phenanthrene-d10	300728	150364	601456	299936	-0.26
23 Chrysene-d12	217646	108823	435292	212975	-2.15
31 Perylene-d12	220685	110342	441370	219046	-0.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.04
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	-0.03
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.03
23 Chrysene-d12	14.01	13.51	14.51	14.01	0.02
31 Perylene-d12	15.93	15.43	16.43	15.93	0.02

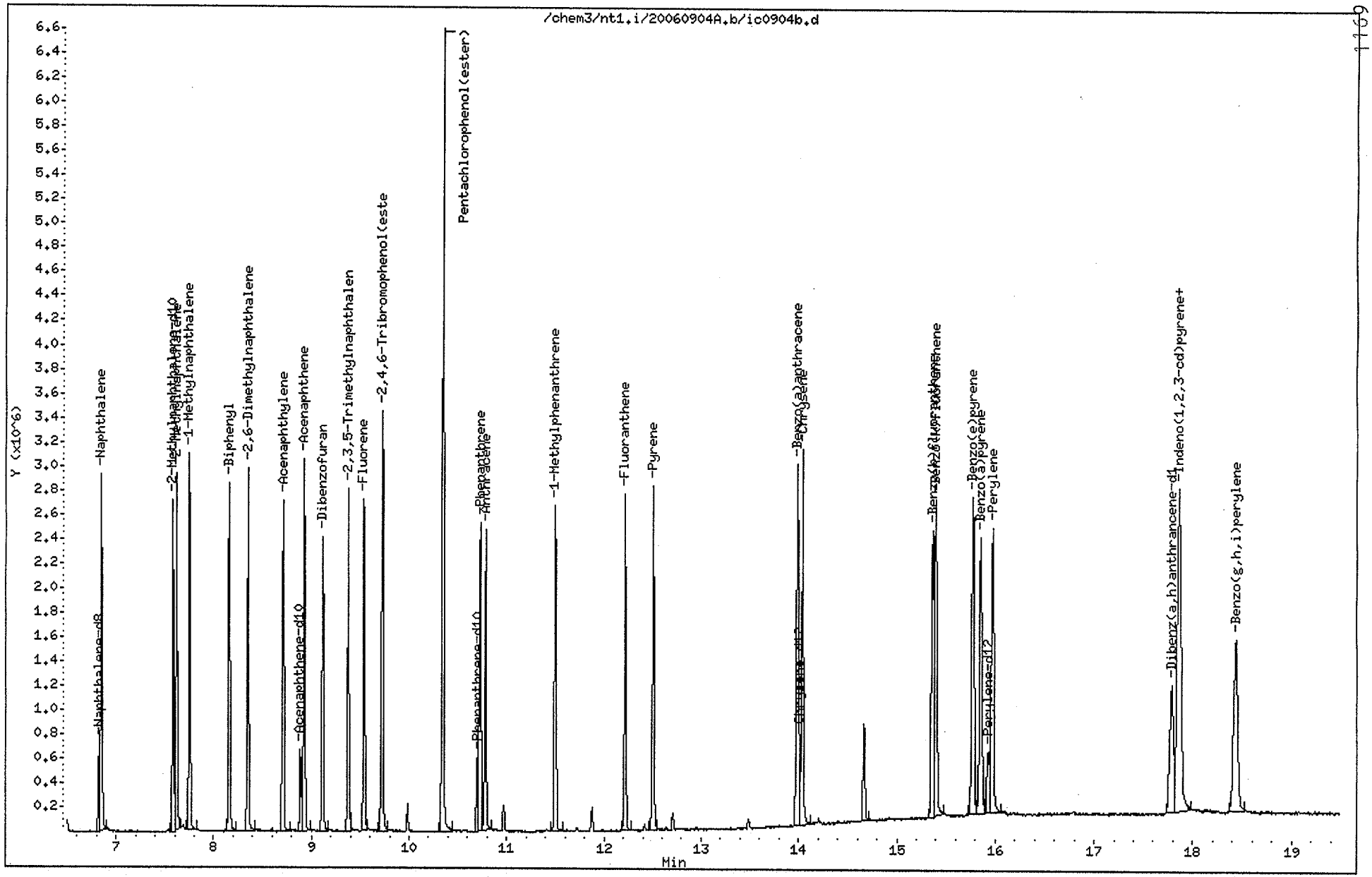
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/ic0904b.d
Date : 04-SEP-2006 11:59
Client ID:
Sample Info: IC0904B

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



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Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904c.d
Lab Smp Id: IC0904C
Inj Date : 04-SEP-2006 12:24
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904C
Misc Info : SIM.1
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 12:24 Cal File: ic0904c.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.830	6.826	(1.000)	403205	2.00000	
	2 Naphthalene	128	6.847	6.850	(1.003)	21007	0.10000	0.1081
$	3 2-Methylnaphthalene-d10	152	7.586	7.583	(1.111)	11014	0.10000	0.1079
	4 2-Methylnaphthalene	142	7.622	7.618	(1.116)	9832	0.10000	0.09512
	5 1-Methylnaphthalene	142	7.752	7.748	(1.135)	11966	0.10000	0.1057
	7 Acenaphthylene	152	8.709	8.706	(0.980)	16276	0.10000	0.1007
*	8 Acenaphthene-d10	164	8.886	8.889	(1.000)	197165	2.00000	
	9 Acenaphthene	153	8.922	8.925	(1.004)	10108	0.10000	0.1028
	10 Dibenzofuran	168	9.117	9.114	(1.026)	14080	0.10000	0.1020
	11 Fluorene	166	9.542	9.539	(1.074)	10226	0.10000	0.09740
$	13 2,4,6-Tribromophenol(ester)	344	9.720	9.722	(0.909)	3168	0.50000	0.4598
	14 Pentachlorophenol(ester)	280	10.346	10.343	(0.967)	5120	0.50000	0.5410
*	15 Phenanthrene-d10	188	10.695	10.698	(1.000)	251283	2.00000	
	16 Phenanthrene	178	10.730	10.727	(1.003)	14634	0.10000	0.1058
	17 Anthracene	178	10.784	10.780	(1.008)	16193	0.10000	0.1136
	19 Fluoranthene	202	12.220	12.216	(1.143)	11788	0.10000	0.1012
	20 Pyrene	202	12.503	12.506	(0.893)	13710	0.10000	0.1063
	22 Benzo(a)anthracene	228	13.981	13.984	(0.998)	12394	0.10000	0.1111
*	23 Chrysene-d12	240	14.005	14.001	(1.000)	182364	2.00000	
	24 Chrysene	228	14.040	14.037	(1.003)	10943	0.10000	0.1047
	28 Benzo(b)fluoranthene	252	15.358	15.355	(0.964)	12013	0.10000	0.1100
	29 Benzo(k)fluoranthene	252	15.393	15.390	(0.967)	10834	0.10000	0.09898(M)
	30 Benzo(a)pyrene	252	15.848	15.845	(0.995)	11523	0.10000	0.1153
*	31 Perylene-d12	264	15.925	15.928	(1.000)	183753	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.840	17.837	(1.120)	10755	0.10000	0.1031(M)
$	32 Dibenz(a,h)anthrancene-d14	292	17.763	17.766	(1.115)	5918	0.10000	0.09478
	34 Dibenz(a,h)anthracene	278	17.840	17.831	(1.120)	8139	0.10000	0.09714(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.402	18.410	(1.155)	9683	0.10000	0.1047(M)
48 Biphenyl	154	8.159	8.156	(0.918)	13012	0.10000	0.1049
49 2,6-Dimethylnaphthalene	156	8.349	8.351	(0.939)	8875	0.10000	0.09720
50 2,3,5-Trimethylnaphthalene	170	9.371	9.374	(1.055)	7662	0.10000	0.1038
51 1-Methylphenanthrene	192	11.499	11.495	(0.821)	8569	0.10000	0.1006
52 Benzo(e)pyrene	252	15.766	15.763	(0.990)	11728	0.10000	0.1086
53 Perylene	252	15.961	15.963	(1.002)	11903	0.10000	0.1141(M)

QC Flag Legend

M - Compound response manually integrated.

VT
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904c.d
Lab Smp Id: IC0904C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM.1

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

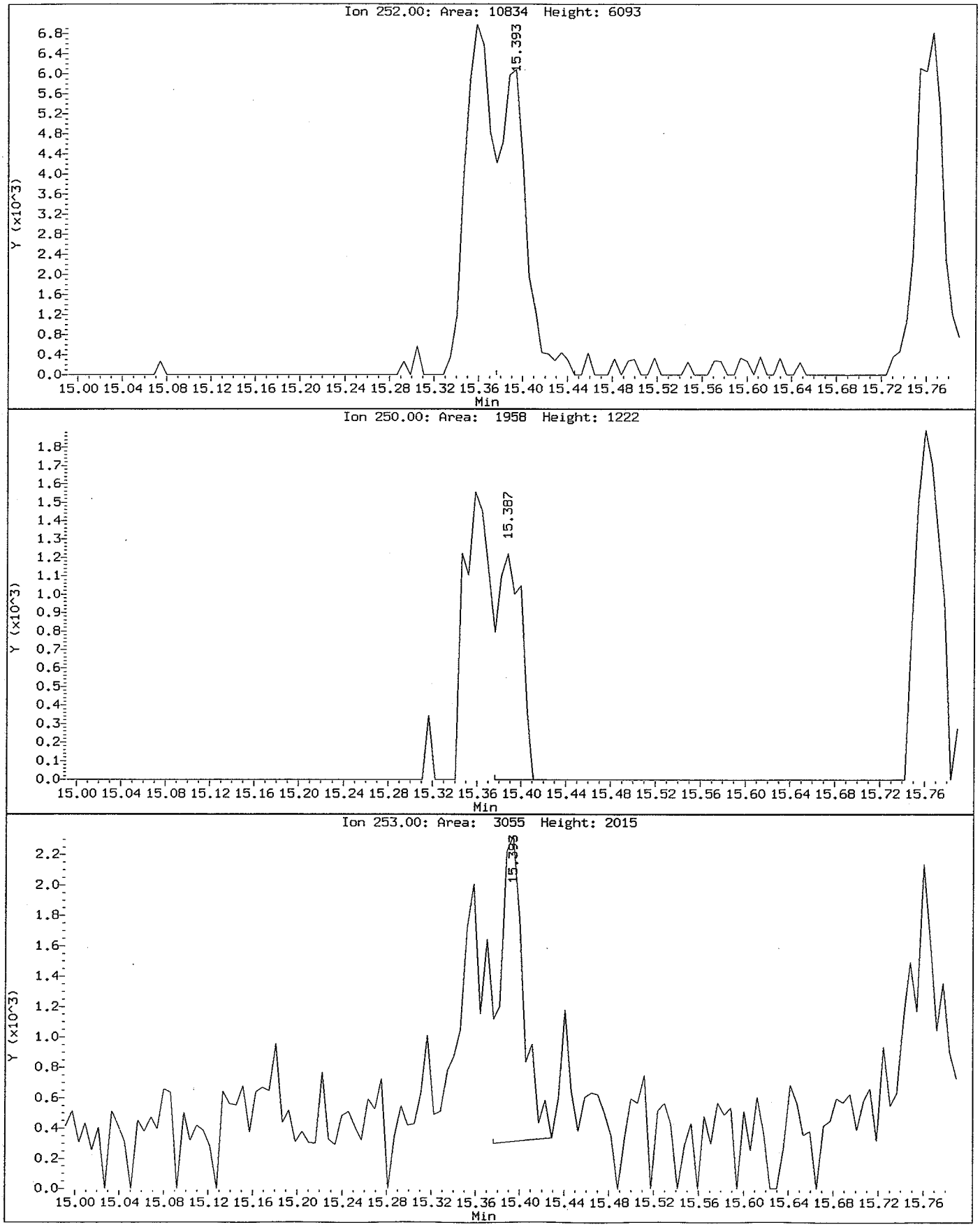
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	403205	-10.85
8 Acenaphthene-d10	225070	112535	450140	197165	-12.40
15 Phenanthrene-d10	300728	150364	601456	251283	-16.44
23 Chrysene-d12	217646	108823	435292	182364	-16.21
31 Perylene-d12	220685	110342	441370	183753	-16.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.03
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	-0.03
15 Phenanthrene-d10	10.70	10.20	11.20	10.69	-0.02
23 Chrysene-d12	14.01	13.51	14.51	14.00	-0.02
31 Perylene-d12	15.93	15.43	16.43	15.93	-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.

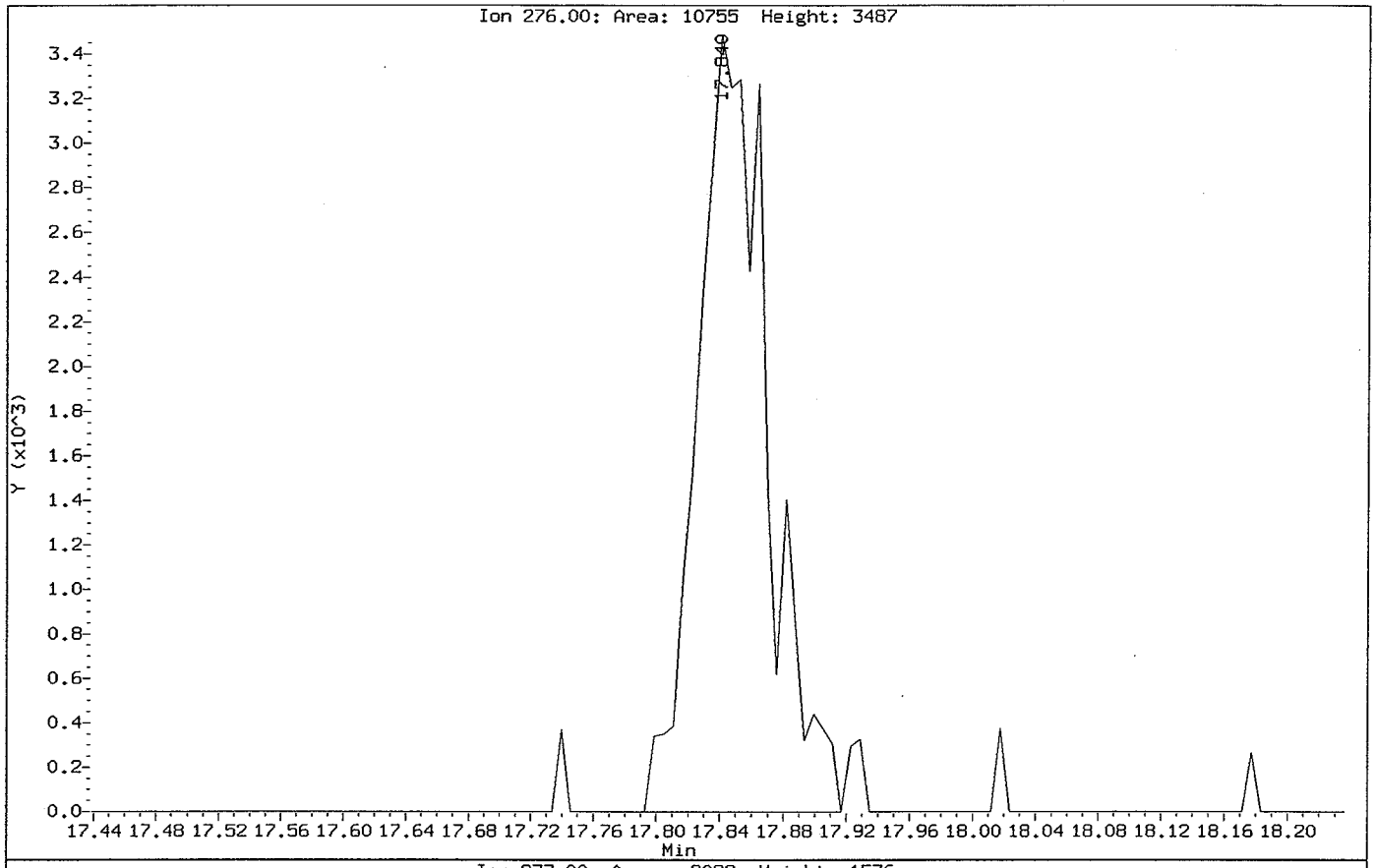
Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Injection Date: 04-SEP-2006 12:24
Instrument: nt1.i
Client Sample ID:

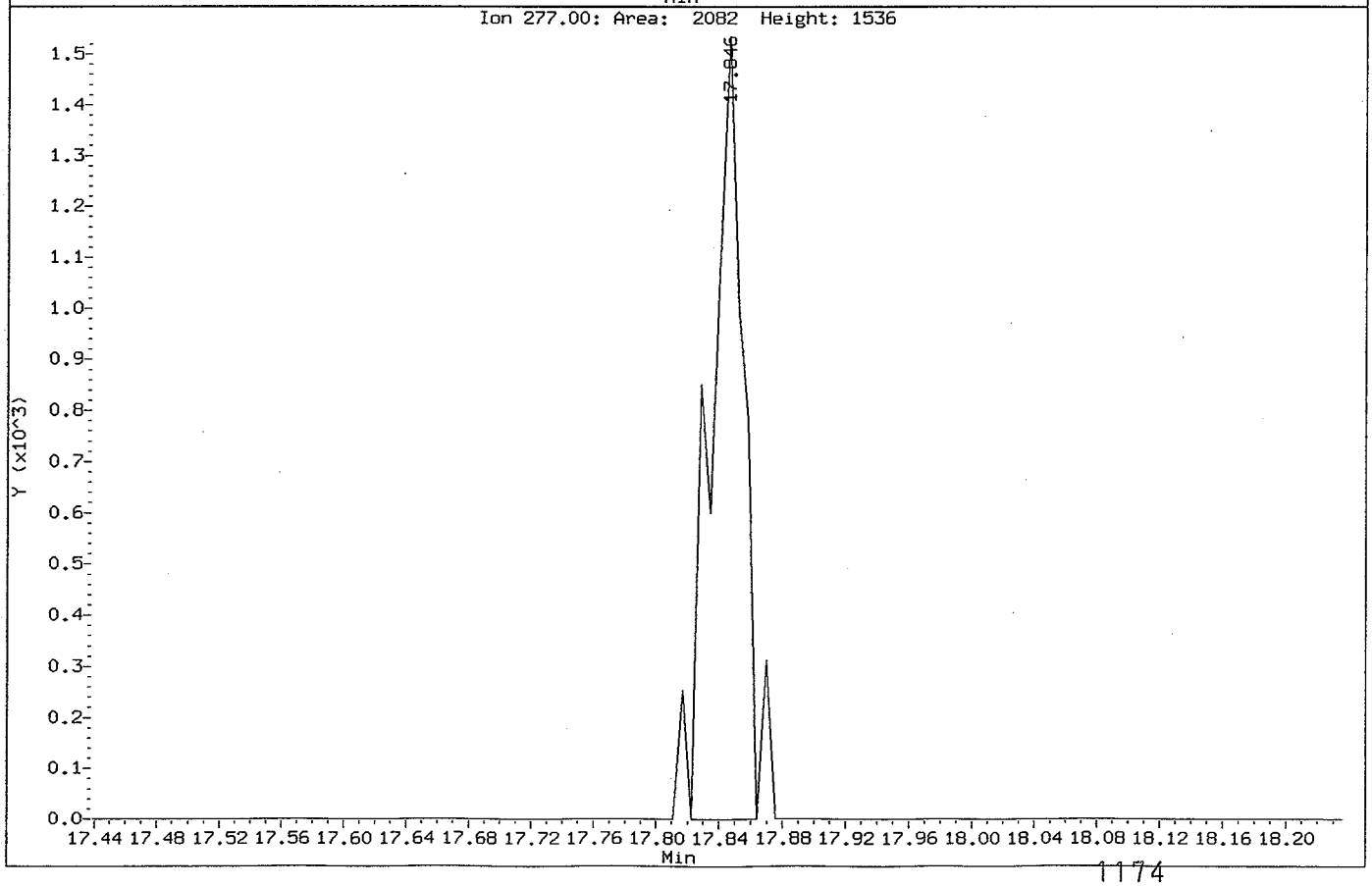
Compound: Benzo(k)fluoranthene
CAS Number:



Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Injection Date: 04-SEP-2006 12:24
Instrument: nt1.i
Client Sample ID:

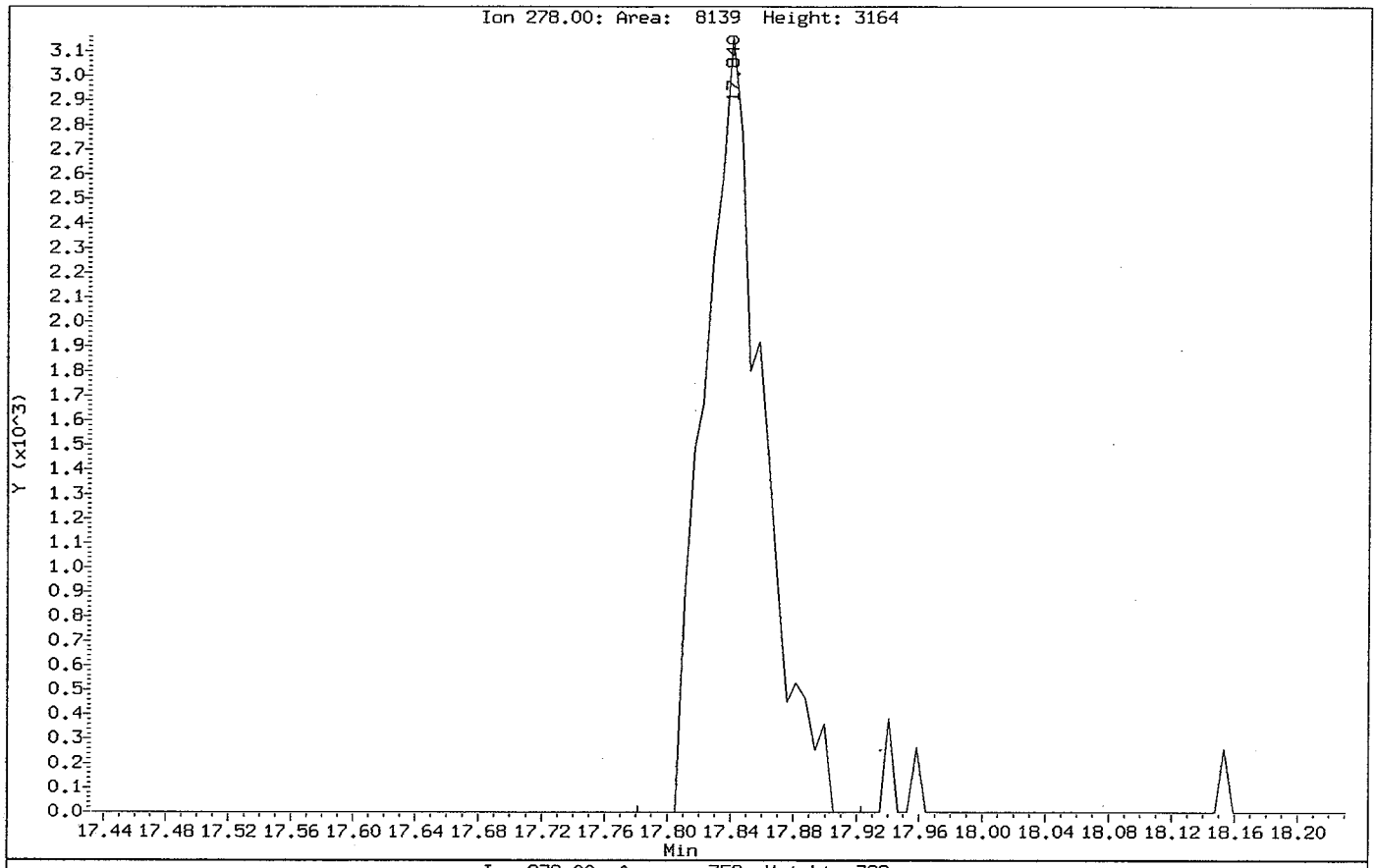
Compound: Indeno(1,2,3-cd)pyrene
CAS Number:

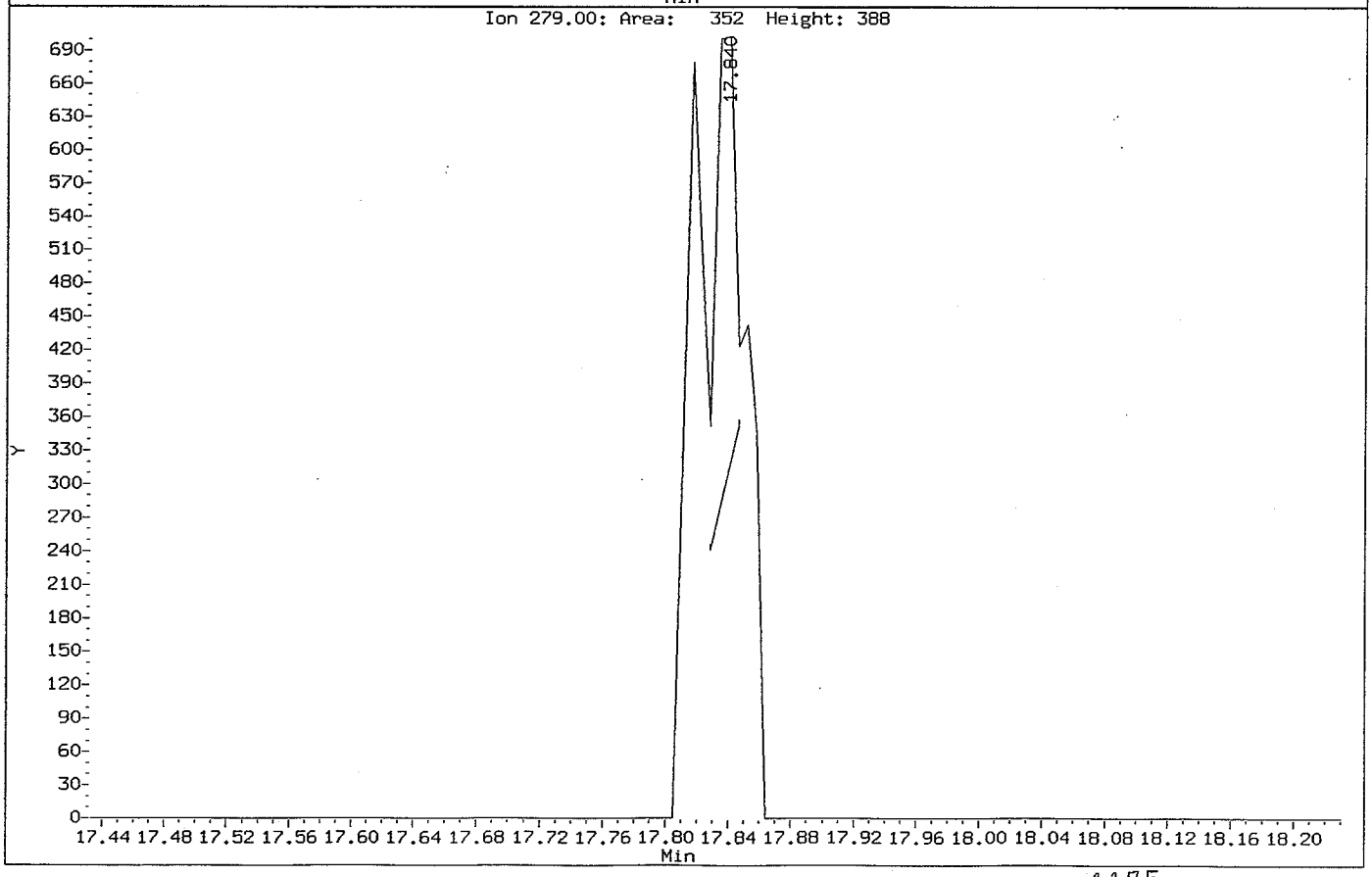




Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Injection Date: 04-SEP-2006 12:24
Instrument: nt1.i
Client Sample ID:

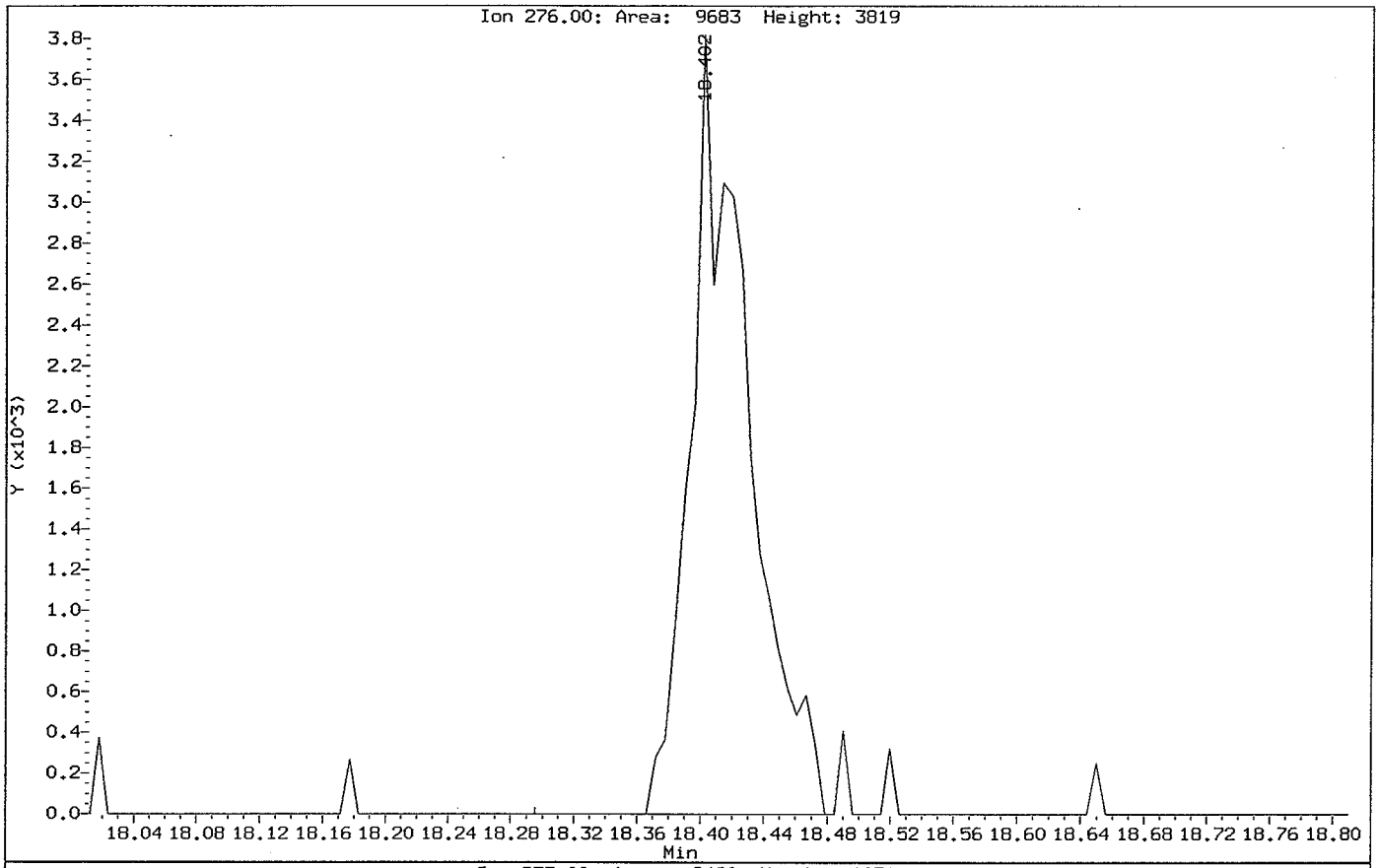
Compound: Dibenz(a,h)anthracene
CAS Number:

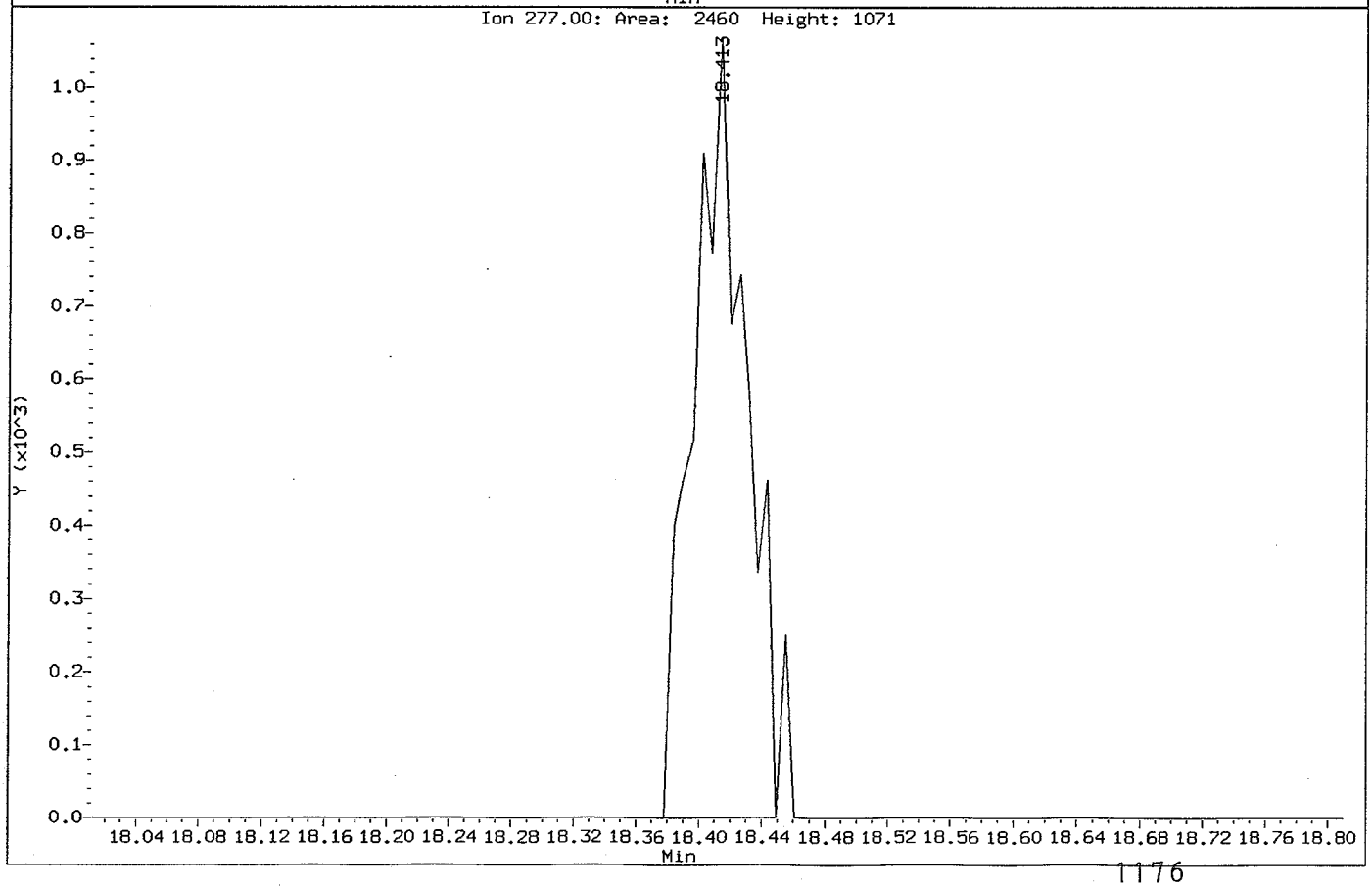




Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Injection Date: 04-SEP-2006 12:24
Instrument: nt1.i
Client Sample ID:

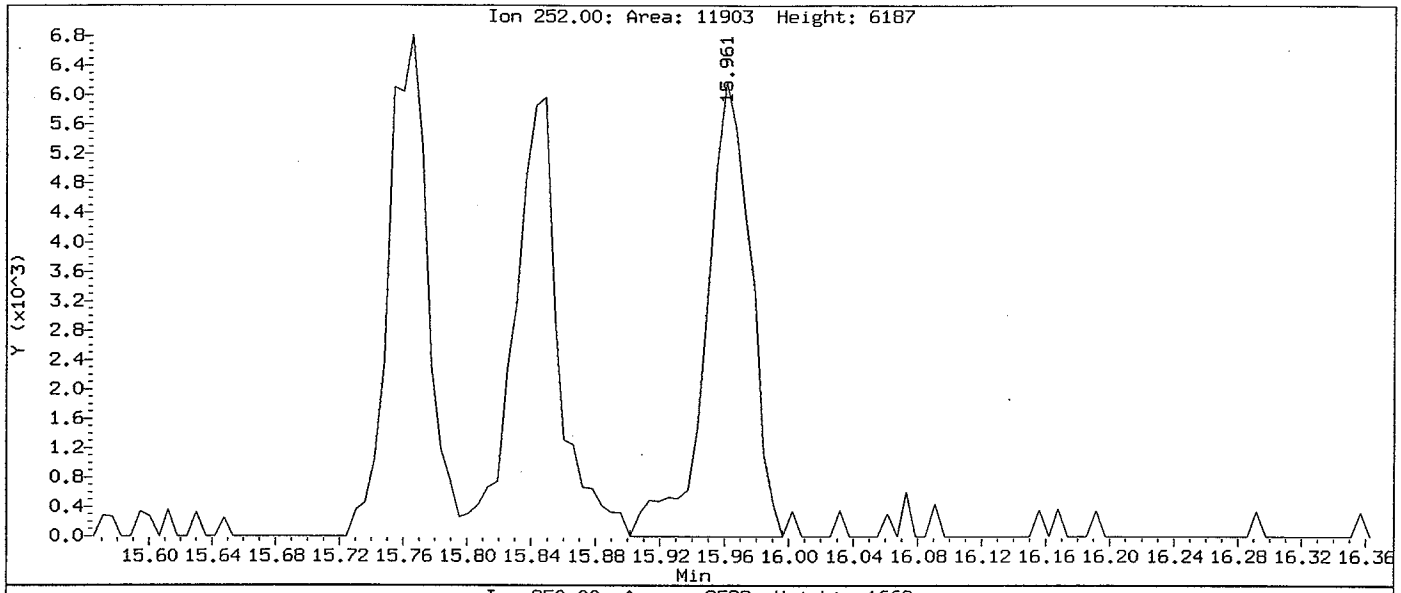
Compound: Benzo(g,h,i)perylene
CAS Number:

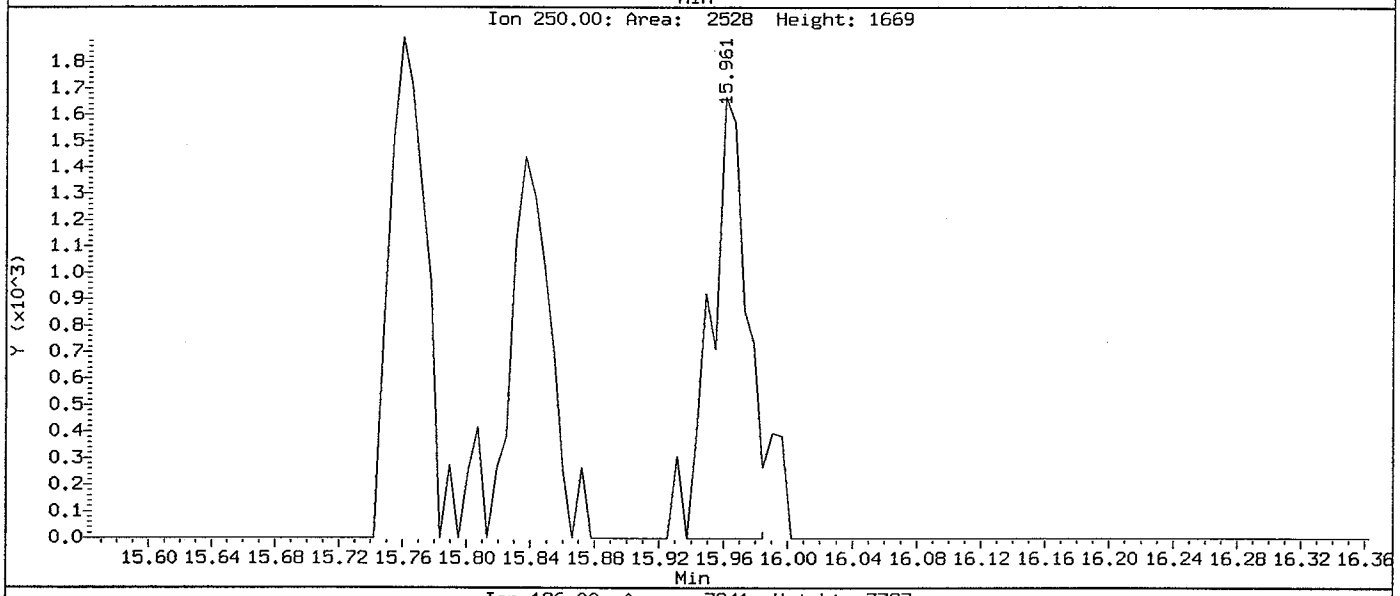


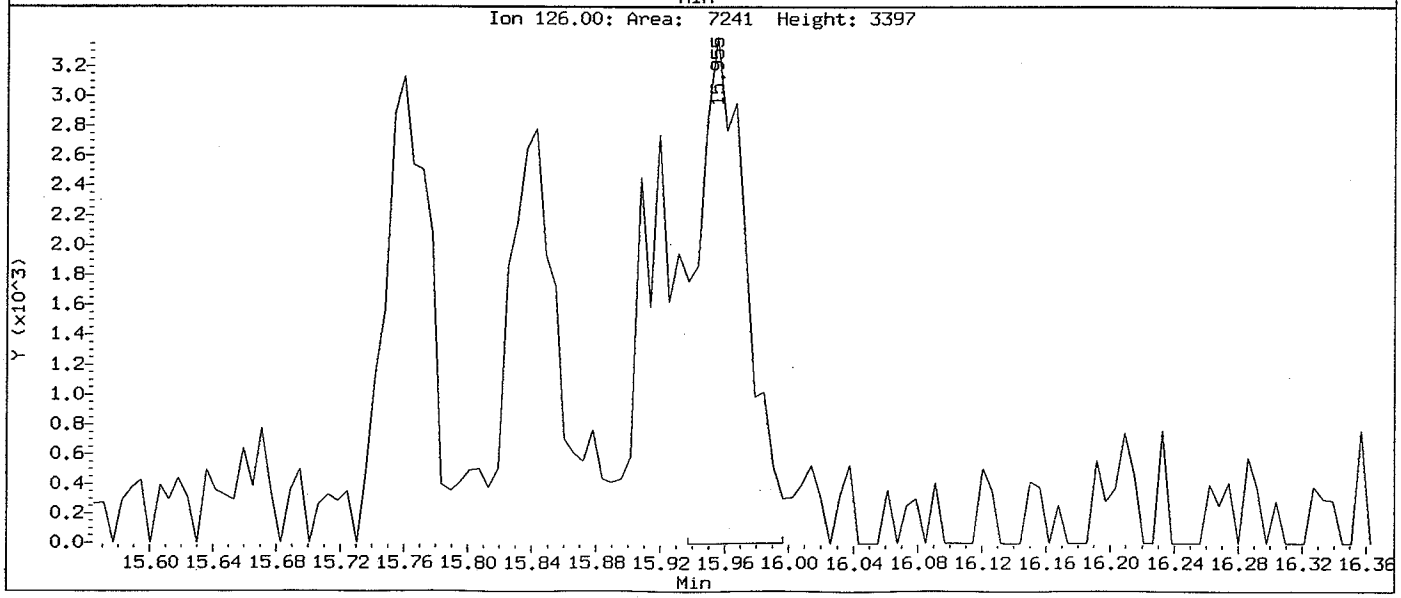


Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Injection Date: 04-SEP-2006 12:24
Instrument: nt1.i
Client Sample ID:

Compound: Perylene
CAS Number:





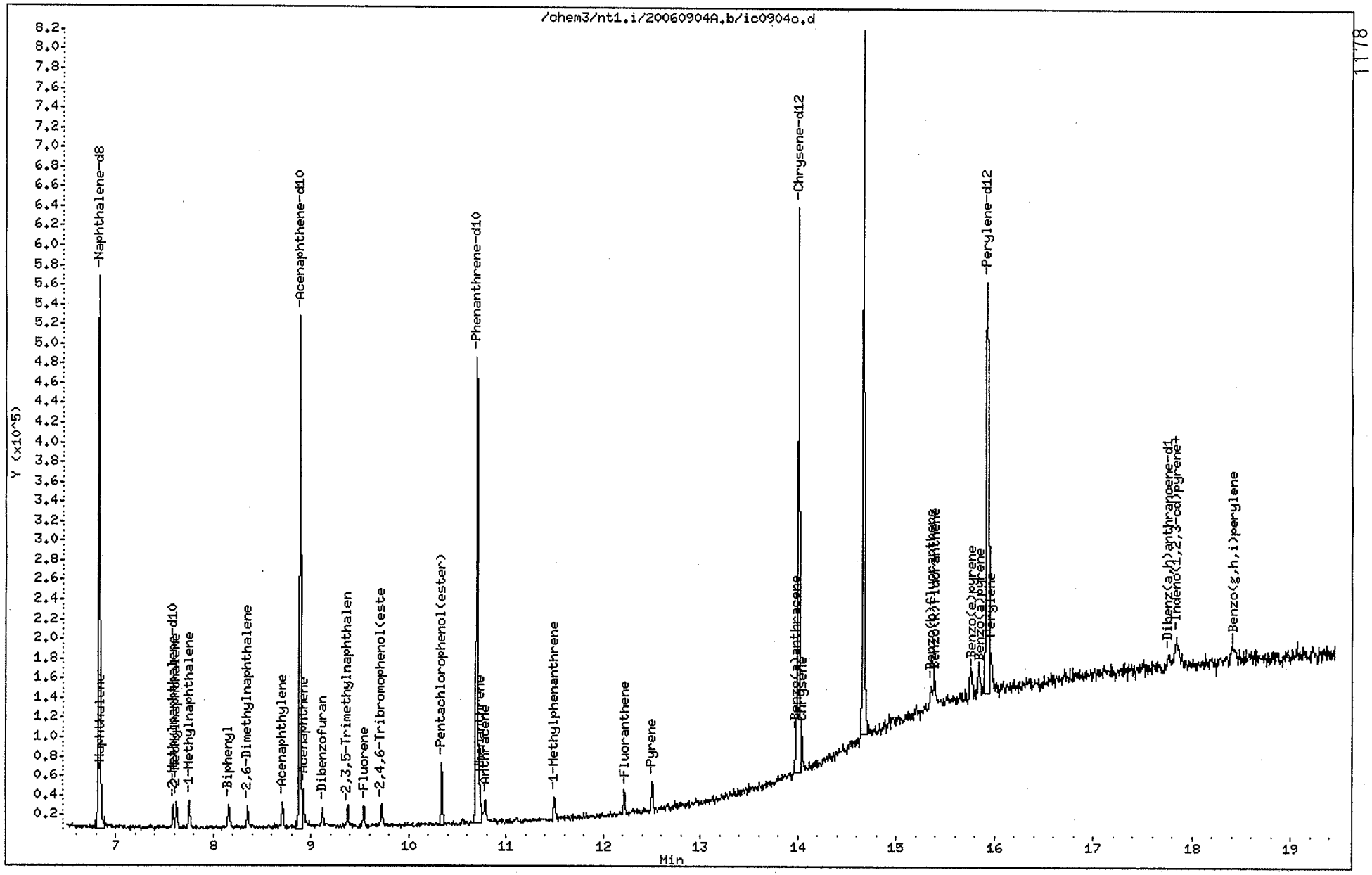


Data File: /chem3/nt1.i/20060904A.b/ic0904c.d
Date : 04-SEP-2006 12:24
Client ID:
Sample Info: IC0904C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



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Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904d.d
Lab Smp Id: IC0904D
Inj Date : 04-SEP-2006 12:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904D
Misc Info : SIM5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 12:49 Cal File: ic0904d.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.826	6.826	(1.000)	409396	2.00000	
	2 Naphthalene	128	6.849	6.850	(1.003)	932637	5.00000	4.793
$	3 2-Methylnaphthalene-d10	152	7.582	7.583	(1.111)	484140	5.00000	4.750
	4 2-Methylnaphthalene	142	7.624	7.618	(1.117)	502538	5.00000	4.840
	5 1-Methylnaphthalene	142	7.754	7.748	(1.136)	546362	5.00000	4.812
	7 Acenaphthylene	152	8.711	8.706	(0.980)	781100	5.00000	4.895
*	8 Acenaphthene-d10	164	8.888	8.889	(1.000)	196000	2.00000	
	9 Acenaphthene	153	8.924	8.925	(1.004)	471787	5.00000	4.869
	10 Dibenzofuran	168	9.113	9.114	(1.025)	663993	5.00000	4.879
	11 Fluorene	166	9.538	9.539	(1.073)	516540	5.00000	4.962
$	13 2,4,6-Tribromophenol(ester)	344	9.722	9.722	(0.909)	175763	25.0000	24.73
	14 Pentachlorophenol(ester)	280	10.342	10.343	(0.967)	223140	25.0000	23.30
*	15 Phenanthrene-d10	188	10.697	10.698	(1.000)	260108	2.00000	
	16 Phenanthrene	178	10.726	10.727	(1.003)	658671	5.00000	4.696
	17 Anthracene	178	10.780	10.780	(1.008)	637423	5.00000	4.472
	19 Fluoranthene	202	12.216	12.216	(1.142)	563854	5.00000	4.753
	20 Pyrene	202	12.505	12.506	(0.893)	591772	5.00000	4.792
	22 Benzo(a)anthracene	228	13.983	13.984	(0.998)	497919	5.00000	4.692
*	23 Chrysene-d12	240	14.006	14.001	(1.000)	176961	2.00000	
	24 Chrysene	228	14.036	14.037	(1.002)	478561	5.00000	4.785
	28 Benzo(b)fluoranthene	252	15.360	15.355	(0.964)	441463	5.00000	4.276
	29 Benzo(k)fluoranthene	252	15.389	15.390	(0.966)	557454	5.00000	5.103
	30 Benzo(a)pyrene	252	15.844	15.845	(0.995)	433587	5.00000	4.518
*	31 Perylene-d12	264	15.927	15.928	(1.000)	182129	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.848	17.837	(1.121)	484285	5.00000	4.760
$	32 Dibenz(a,h)anthrancene-d14	292	17.777	17.766	(1.116)	289831	5.00000	4.758
	34 Dibenz(a,h)anthracene	278	17.842	17.831	(1.120)	404325	5.00000	4.901

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.415	18.410	(1.156)	421157	5.00000	4.691
48 Biphenyl	154	8.161	8.156	(0.918)	595043	5.00000	4.869
49 2,6-Dimethylnaphthalene	156	8.350	8.351	(0.939)	453879	5.00000	5.000
50 2,3,5-Trimethylnaphthalene	170	9.373	9.374	(1.055)	342017	5.00000	4.741
51 1-Methylphenanthrene	192	11.501	11.495	(0.821)	407901	5.00000	4.951
52 Benzo(e)pyrene	252	15.768	15.763	(0.990)	490126	5.00000	4.676
53 Perylene	252	15.969	15.963	(1.003)	447692	5.00000	4.480

VTS
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904d.d
Lab Smp Id: IC0904D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM5

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	409396	-9.48
8 Acenaphthene-d10	225070	112535	450140	196000	-12.92
15 Phenanthrene-d10	300728	150364	601456	260108	-13.51
23 Chrysene-d12	217646	108823	435292	176961	-18.69
31 Perylene-d12	220685	110342	441370	182129	-17.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.09
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.01	13.51	14.51	14.01	0.00
31 Perylene-d12	15.93	15.43	16.43	15.93	0.00

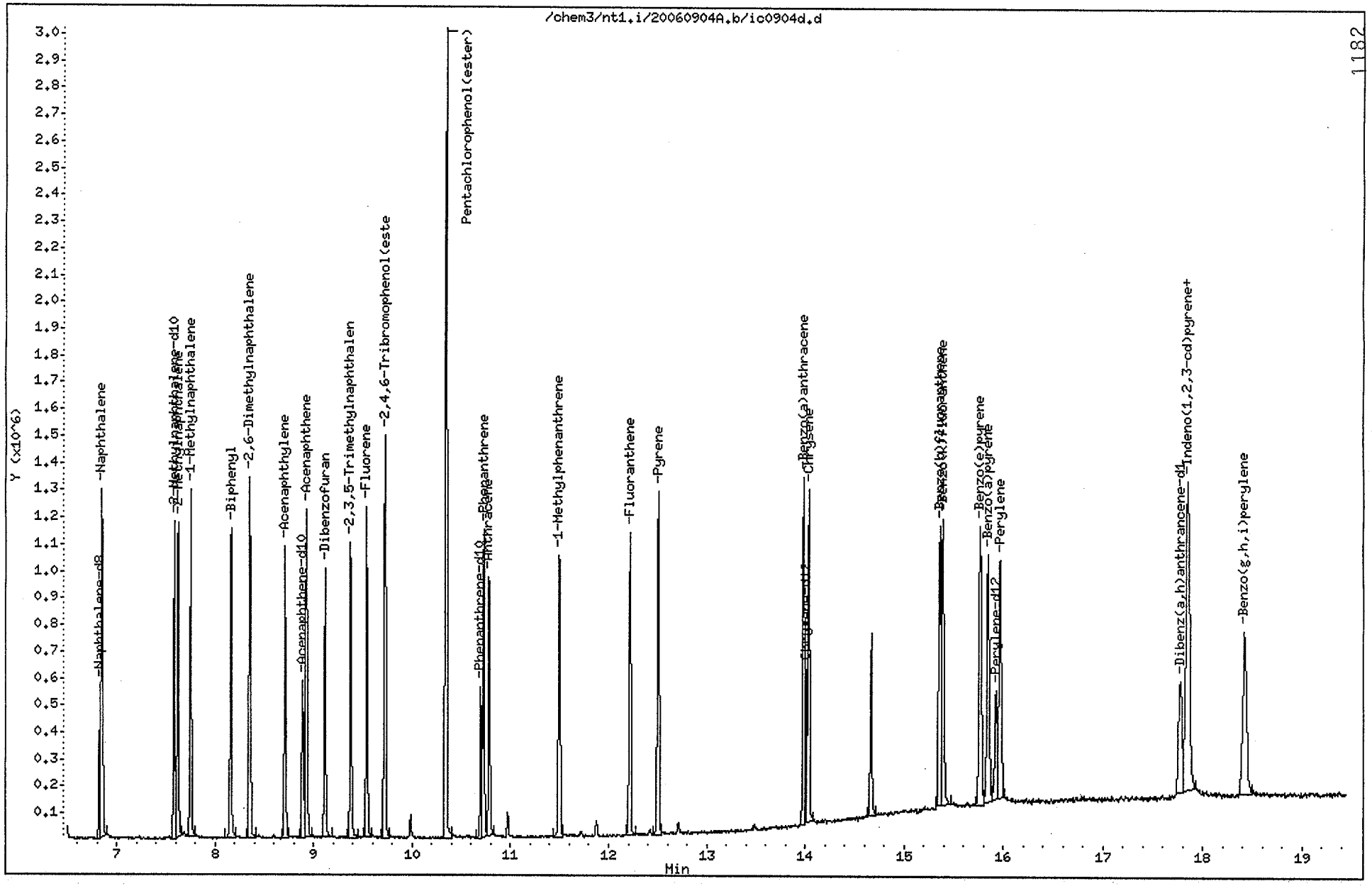
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/ic0904d.d
Date : 04-SEP-2006 12:49
Client ID:
Sample Info: IC0904D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904e.d
Lab Smp Id: IC0904E
Inj Date : 04-SEP-2006 13:13
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904E
Misc Info : SIM.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:13 Cal File: ic0904e.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.831	6.826	(1.000)	400769	2.00000	
	2 Naphthalene	128	6.849	6.850	(1.003)	92913	0.50000	0.4901
$	3 2-Methylnaphthalene-d10	152	7.582	7.583	(1.110)	45569	0.50000	0.4648
	4 2-Methylnaphthalene	142	7.623	7.618	(1.116)	49158	0.50000	0.4868
	5 1-Methylnaphthalene	142	7.753	7.748	(1.135)	53386	0.50000	0.4841
	7 Acenaphthylene	152	8.711	8.706	(0.980)	77053	0.50000	0.4998
*	8 Acenaphthene-d10	164	8.888	8.889	(1.000)	189390	2.00000	
	9 Acenaphthene	153	8.924	8.925	(1.004)	45671	0.50000	0.4902
	10 Dibenzofuran	168	9.119	9.114	(1.026)	67383	0.50000	0.5099
	11 Fluorene	166	9.538	9.539	(1.073)	50430	0.50000	0.5011
$	13 2,4,6-Tribromophenol(ester)	344	9.727	9.722	(0.909)	17451	2.50000	2.503
	14 Pentachlorophenol(ester)	280	10.342	10.343	(0.967)	22632	2.50000	2.427
*	15 Phenanthrene-d10	188	10.697	10.698	(1.000)	255121	2.00000	
	16 Phenanthrene	178	10.726	10.727	(1.003)	67993	0.50000	0.4953
	17 Anthracene	178	10.779	10.780	(1.008)	66449	0.50000	0.4800
	19 Fluoranthene	202	12.216	12.216	(1.142)	57086	0.50000	0.4924
	20 Pyrene	202	12.505	12.506	(0.893)	61875	0.50000	0.5016
	22 Benzo(a)anthracene	228	13.983	13.984	(0.998)	50860	0.50000	0.4839
*	23 Chrysene-d12	240	14.006	14.001	(1.000)	176657	2.00000	
	24 Chrysene	228	14.036	14.037	(1.002)	47846	0.50000	0.4832
	28 Benzo(b)fluoranthene	252	15.360	15.355	(0.964)	51196	0.50000	0.4984
	29 Benzo(k)fluoranthene	252	15.389	15.390	(0.966)	45787	0.50000	0.4347
	30 Benzo(a)pyrene	252	15.844	15.845	(0.995)	43077	0.50000	0.4598
*	31 Perylene-d12	264	15.927	15.928	(1.000)	181352	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.842	17.837	(1.120)	44724	0.50000	0.4521
$	32 Dibenz(a,h)anthrancene-d14	292	17.771	17.766	(1.116)	26738	0.50000	0.4515
	34 Dibenz(a,h)anthracene	278	17.830	17.831	(1.119)	35865	0.50000	0.4480

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.409	18.410	(1.156)	39453	0.50000	0.4519
48 Biphenyl	154	8.155	8.156	(0.918)	55124	0.50000	0.4731
49 2,6-Dimethylnaphthalene	156	8.350	8.351	(0.939)	42990	0.50000	0.4921
50 2,3,5-Trimethylnaphthalene	170	9.373	9.374	(1.055)	34391	0.50000	0.4947
51 1-Methylphenanthrene	192	11.500	11.495	(0.821)	41349	0.50000	0.5022
52 Benzo(e)pyrene	252	15.762	15.763	(0.990)	47824	0.50000	0.4660
53 Perylene	252	15.963	15.963	(1.002)	43296	0.50000	0.4467

VLS
9-5-2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904e.d
Lab Smp Id: IC0904E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM.5

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	400769	-11.39
8 Acenaphthene-d10	225070	112535	450140	189390	-15.85
15 Phenanthrene-d10	300728	150364	601456	255121	-15.17
23 Chrysene-d12	217646	108823	435292	176657	-18.83
31 Perylene-d12	220685	110342	441370	181352	-17.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.01
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.00
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.01	13.51	14.51	14.01	0.00
31 Perylene-d12	15.93	15.43	16.43	15.93	0.00

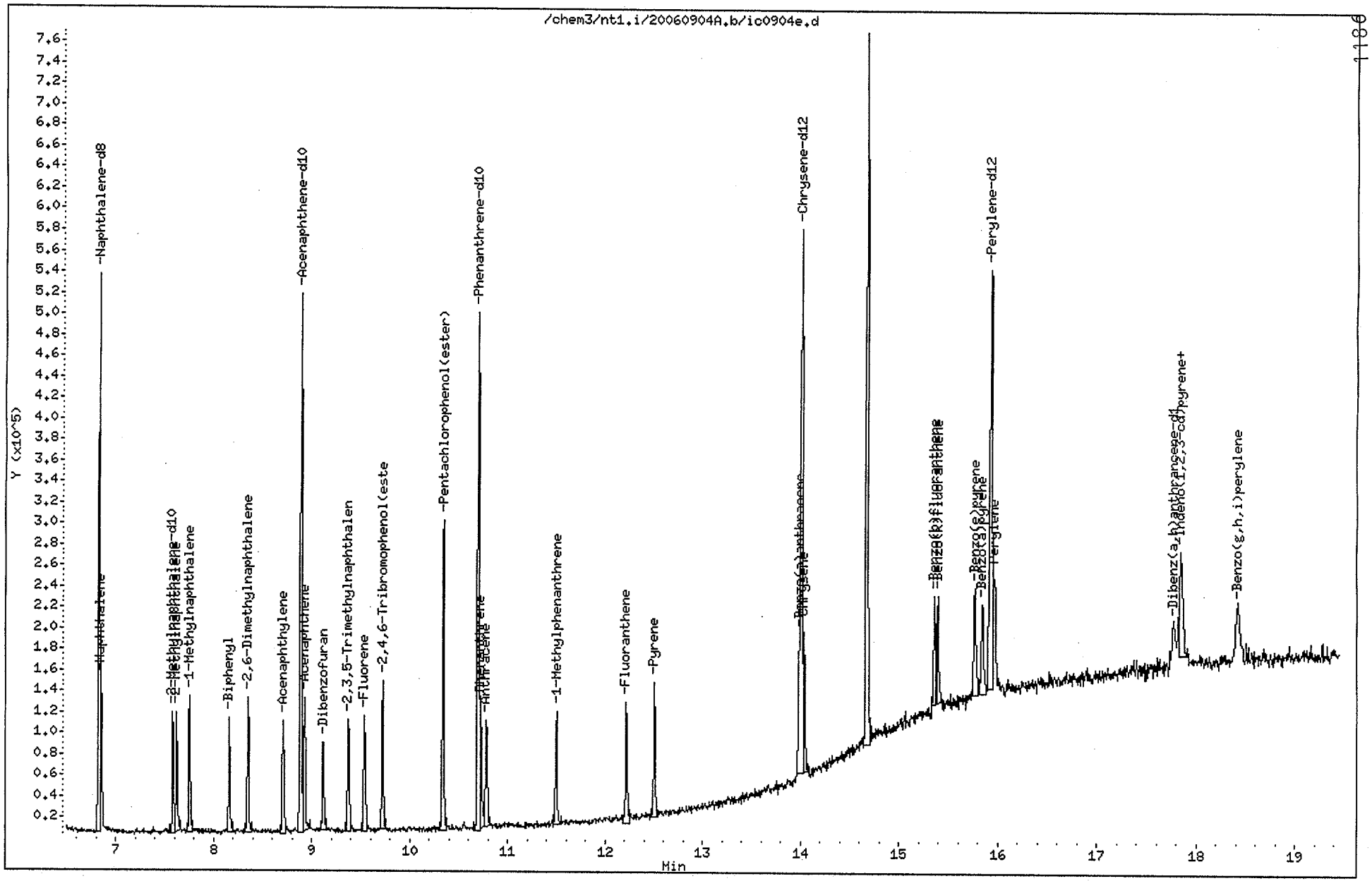
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/ic0904e.d
Date : 04-SEP-2006 13:13
Client ID:
Sample Info: IC0904E

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/ic0904f.d
Lab Smp Id: IC0904F
Inj Date : 04-SEP-2006 13:38
Operator : VTS Inst ID: nt1.i
Smp Info : IC0904F
Misc Info : SIM1
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:12 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.826	6.826	(1.000)	391064	2.00000	
	2 Naphthalene	128	6.850	6.850	(1.003)	202437	1.00000	1.077
$	3 2-Methylnaphthalene-d10	152	7.583	7.583	(1.111)	103474	1.00000	1.067
	4 2-Methylnaphthalene	142	7.618	7.618	(1.116)	106450	1.00000	1.066
	5 1-Methylnaphthalene	142	7.748	7.748	(1.135)	112109	1.00000	1.035
	7 Acenaphthylene	152	8.706	8.706	(0.979)	162975	1.00000	1.046
*	8 Acenaphthene-d10	164	8.889	8.889	(1.000)	189715	2.00000	
	9 Acenaphthene	153	8.925	8.925	(1.004)	98153	1.00000	1.043
	10 Dibenzofuran	168	9.114	9.114	(1.025)	140842	1.00000	1.053
	11 Fluorene	166	9.539	9.539	(1.073)	108699	1.00000	1.064
$	13 2,4,6-Tribromophenol(ester)	344	9.722	9.722	(0.909)	38945	5.00000	5.676
	14 Pentachlorophenol(ester)	280	10.343	10.343	(0.967)	49918	5.00000	5.482
*	15 Phenanthrene-d10	188	10.698	10.698	(1.000)	244277	2.00000	
	16 Phenanthrene	178	10.727	10.727	(1.003)	137336	1.00000	1.037
	17 Anthracene	178	10.780	10.780	(1.008)	138569	1.00000	1.038
	19 Fluoranthene	202	12.216	12.216	(1.142)	123153	1.00000	1.090
	20 Pyrene	202	12.506	12.506	(0.893)	126600	1.00000	1.039
	22 Benzo(a)anthracene	228	13.984	13.984	(0.999)	107819	1.00000	1.039
*	23 Chrysene-d12	240	14.001	14.001	(1.000)	173158	2.00000	
	24 Chrysene	228	14.037	14.037	(1.003)	100084	1.00000	1.026
	28 Benzo(b)fluoranthene	252	15.355	15.355	(0.964)	99122	1.00000	0.9992
	29 Benzo(k)fluoranthene	252	15.390	15.390	(0.966)	112874	1.00000	1.089
	30 Benzo(a)pyrene	252	15.845	15.845	(0.995)	84374	1.00000	0.9430
*	31 Perylene-d12	264	15.928	15.928	(1.000)	175181	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.837	17.837	(1.120)	98521	1.00000	1.026
$	32 Dibenz(a,h)anthrancene-d14	292	17.766	17.766	(1.115)	58442	1.00000	1.018
	34 Dibenz(a,h)anthracene	278	17.831	17.831	(1.119)	80413	1.00000	1.033

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35 Benzo(g,h,i)perylene	276	18.410	18.410	(1.156)	87693	1.00000	1.033
48 Biphenyl	154	8.156	8.156	(0.918)	122267	1.00000	1.039
49 2,6-Dimethylnaphthalene	156	8.351	8.351	(0.939)	95643	1.00000	1.076
50 2,3,5-Trimethylnaphthalene	170	9.374	9.374	(1.055)	73025	1.00000	1.040
51 1-Methylphenanthrene	192	11.495	11.495	(0.821)	86862	1.00000	1.063
52 Benzo(e)pyrene	252	15.763	15.763	(0.990)	102438	1.00000	1.028
53 Perylene	252	15.963	15.963	(1.002)	89925	1.00000	0.9668

UTS
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0904f.d
Lab Smp Id: IC0904F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM1

Calibration Date: 04-SEP-2006
Calibration Time: 11:35
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	391064	-13.54
8 Acenaphthene-d10	225070	112535	450140	189715	-15.71
15 Phenanthrene-d10	300728	150364	601456	244277	-18.77
23 Chrysene-d12	217646	108823	435292	173158	-20.44
31 Perylene-d12	220685	110342	441370	175181	-20.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.08
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	0.01
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	0.00
23 Chrysene-d12	14.01	13.51	14.51	14.00	-0.04
31 Perylene-d12	15.93	15.43	16.43	15.93	0.00

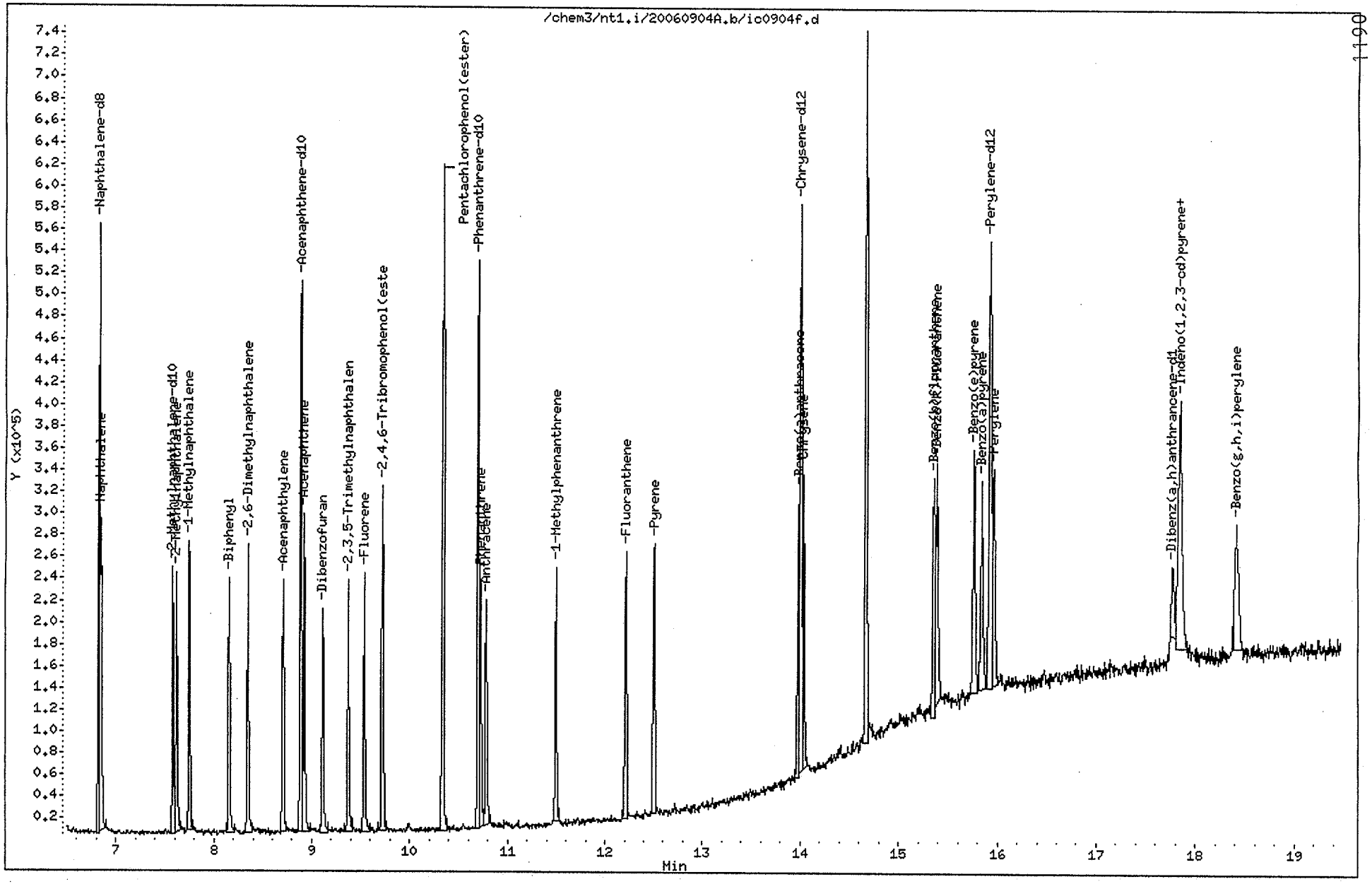
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/ic0904f.d
Date : 04-SEP-2006 13:38
Client ID:
Sample Info: IC0904F

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060904A.b/icv0904.d
Lab Smp Id: ICV0904
Inj Date : 04-SEP-2006 14:03
Operator : VTS Inst ID: nt1.i
Smp Info : ICV0904
Misc Info : SIM2.5
Comment : 1ul Injection
Method : /chem3/nt1.i/20060904A.b/simpna.m
Meth Date : 05-Sep-2006 08:09 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
*	1 Naphthalene-d8	136	6.825	6.826	(1.000)	390715	2.00000	
	2 Naphthalene	128	6.849	6.850	(1.003)	526638	2.80553	2.806
$	3 2-Methylnaphthalene-d10	152	7.582	7.583	(1.111)	275445	2.84303	2.843(R)
	4 2-Methylnaphthalene	142	7.623	7.618	(1.117)	296546	2.97237	2.972
	5 1-Methylnaphthalene	142	7.753	7.748	(1.136)	286097	2.64260	2.643
	7 Acenaphthylene	152	8.704	8.706	(0.979)	444172	2.89176	2.892
*	8 Acenaphthene-d10	164	8.888	8.889	(1.000)	186960	2.00000	
	9 Acenaphthene	153	8.923	8.925	(1.004)	251842	2.71472	2.715
	10 Dibenzofuran	168	9.112	9.114	(1.025)	361196	2.73960	2.740
	11 Fluorene	166	9.538	9.539	(1.073)	283375	2.81544	2.815
*	15 Phenanthrene-d10	188	10.696	10.698	(1.000)	244729	2.00000	
	16 Phenanthrene	178	10.726	10.727	(1.003)	363054	2.73674	2.737
	17 Anthracene	178	10.779	10.780	(1.008)	370180	2.76677	2.767
	19 Fluoranthene	202	12.215	12.216	(1.142)	312134	2.75651	2.757
	20 Pyrene	202	12.505	12.506	(0.893)	337802	2.72588	2.726
	22 Benzo(a)anthracene	228	13.982	13.984	(0.998)	294627	2.79095	2.791
*	23 Chrysene-d12	240	14.006	14.001	(1.000)	176078	2.00000	
	24 Chrysene	228	14.035	14.037	(1.002)	268192	2.70356	2.704
	28 Benzo(b)fluoranthene	252	15.359	15.355	(0.964)	267060	2.47341	2.473
	29 Benzo(k)fluoranthene	252	15.389	15.390	(0.966)	316265	2.80463	2.805
	30 Benzo(a)pyrene	252	15.844	15.845	(0.995)	253941	2.60759	2.608
*	31 Perylene-d12	264	15.927	15.928	(1.000)	190669	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.847	17.837	(1.121)	281635	2.69388	2.694
$	32 Dibenz(a,h)anthrancene-d14	292	17.771	17.766	(1.116)	130383	2.08673	2.087(R)
	34 Dibenz(a,h)anthracene	278	17.841	17.831	(1.120)	225670	2.66329	2.663
	35 Benzo(g,h,i)perylene	276	18.415	18.410	(1.156)	243888	2.63965	2.640

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS
9.5.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: icv0904.d
Lab Smp Id: ICV0904
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060904A.b/simpna.m
Misc Info: SIM2.5

Calibration Date: 04-SEP-2006
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	452281	226140	904562	390715	-13.61
8 Acenaphthene-d10	225070	112535	450140	186960	-16.93
15 Phenanthrene-d10	300728	150364	601456	244729	-18.62
23 Chrysene-d12	217646	108823	435292	176078	-19.10
31 Perylene-d12	220685	110342	441370	190669	-13.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.83	6.33	7.33	6.83	-0.10
8 Acenaphthene-d10	8.89	8.39	9.39	8.89	-0.01
15 Phenanthrene-d10	10.70	10.20	11.20	10.70	-0.01
23 Chrysene-d12	14.01	13.51	14.51	14.01	-0.01
31 Perylene-d12	15.93	15.43	16.43	15.93	-0.01

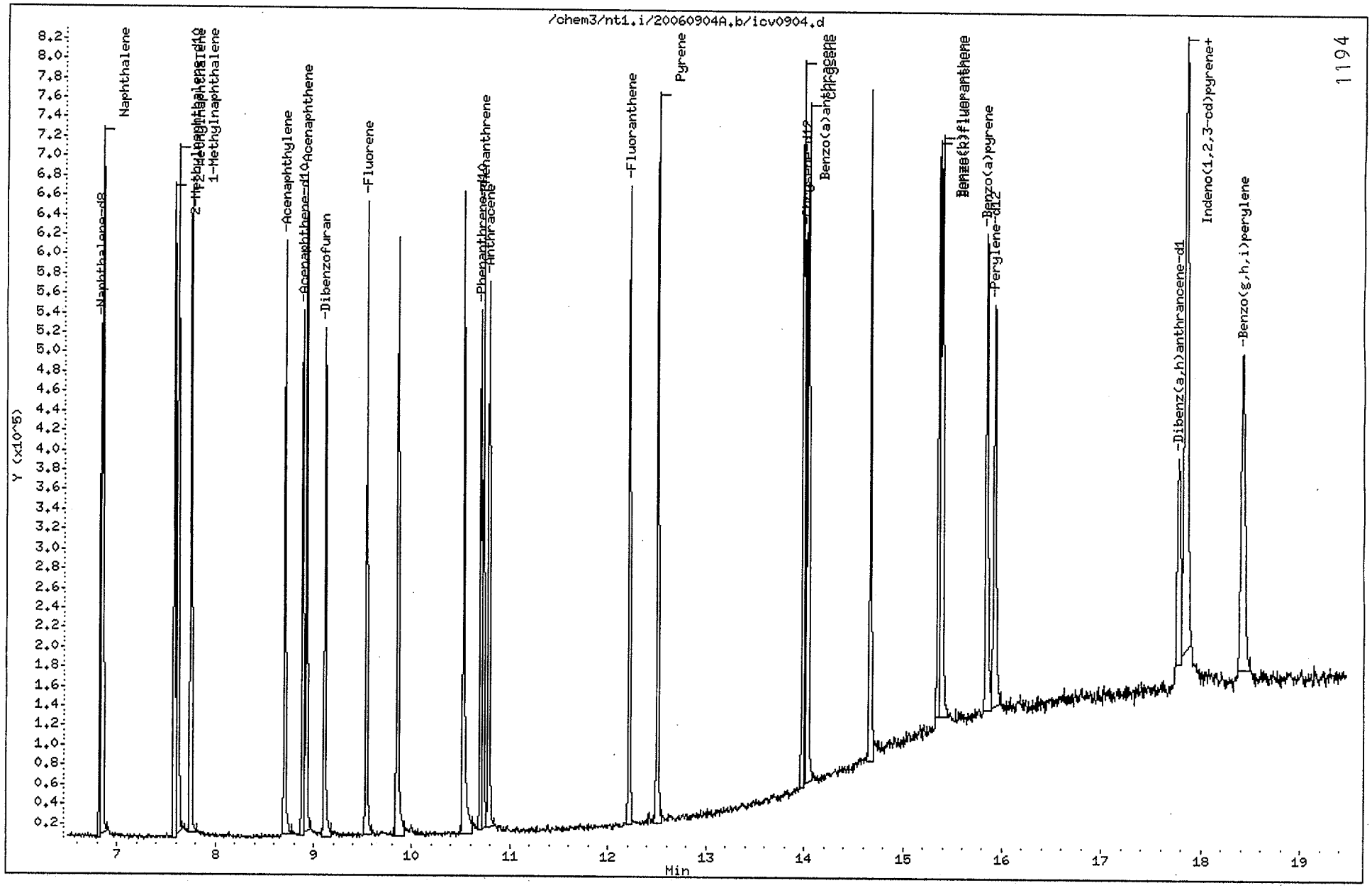
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20060904A.b/icv0904.d
Date : 04-SEP-2006 14:03
Client ID:
Sample Info: ICV0904

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JU43 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 09/12/06

Init. Calib. Date: 09/04/06 Cont. Calib. Time: 1102

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.961	0.993	0.100	-3.3	
2-Methylnaphthalene	0.511	0.531	0.100	-3.9	
Acenaphthylene	1.643	1.739	0.100	-5.8	
Acenaphthene	0.992	1.026	0.100	-3.4	20.0
Dibenzofuran	1.410	1.438	0.100	-2.0	
Fluorene	1.077	1.137	0.100	-5.6	
Phenanthrene	1.084	1.083	0.100	0.1	
Anthracene	1.093	1.096	0.100	-0.3	
Fluoranthene	0.925	0.974	0.100	-5.3	20.0
Pyrene	1.408	1.318	0.100	6.4	
Benzo(a)anthracene	1.199	1.137	0.100	5.2	
Chrysene	1.127	1.106	0.100	1.9	
Benzo(b)fluoranthene	1.133	1.194	0.100	-5.4	
Benzo(k)fluoranthene	1.183	1.134	0.100	4.1	
Benzo(a)pyrene	1.021	1.009	0.100	1.2	20.0
Indeno(1,2,3-cd)pyrene	1.096	1.132	0.100	-3.3	
Dibenz(a,h)anthracene	0.889	0.916	0.100	-3.0	
Benzo(g,h,i)perylene	0.969	0.981	0.100	-1.2	
1-Methylnaphthalene	0.554	0.569	0.100	-2.7	
Biphenyl	1.240	1.287	0.100	-3.8	
2,6-Dimethylnaphthalene	0.937	0.988	0.100	-5.4	
2,3,5-Trimethylnaphthalene	0.740	0.754	0.100	-1.9	
1-Methylphenanthrene	0.944	0.879	0.100	6.9	
Benzo(e)pyrene	1.138	1.144	0.100	-0.5	
Perylene	1.062	1.034	0.100	2.6	
2-Methylnaphthalene-d10	0.496	0.496	0.100	0.0	
Dibenz(a,h)anthrancene-d14	0.655	0.699	0.100	-6.7	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/cc0912.d
Lab Smp Id: CC0912
Inj Date : 12-SEP-2006 11:02
Operator : VTS Inst ID: nt1.i
Smp Info : CC0912
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 12-Sep-2006 13:10 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: t4pcp.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.808	6.808	(1.000)	341552	2.00000	
	2 Naphthalene	128	6.832	6.832	(1.003)	423849	2.50000	2.583
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.111)	212005	2.50000	2.503
	4 2-Methylnaphthalene	142	7.600	7.600	(1.116)	226684	2.50000	2.599
	5 1-Methylnaphthalene	142	7.730	7.730	(1.135)	243026	2.50000	2.568
	7 Acenaphthylene	152	8.687	8.687	(0.979)	368154	2.50000	2.646
*	8 Acenaphthene-d10	164	8.871	8.871	(1.000)	169375	2.00000	
	9 Acenaphthene	153	8.906	8.906	(1.004)	217321	2.50000	2.586
	10 Dibenzofuran	168	9.095	9.095	(1.025)	304484	2.50000	2.549
	11 Fluorene	166	9.521	9.521	(1.073)	240677	2.50000	2.639
$	13 2,4,6-Tribromophenol(ester)	344	9.704	9.704	(0.909)	82876	12.5000	12.71
	14 Pentachlorophenol(ester)	280	10.324	10.324	(0.967)	110958	12.5000	12.82
*	15 Phenanthrene-d10	188	10.679	10.679	(1.000)	232185	2.00000	
	16 Phenanthrene	178	10.709	10.709	(1.003)	314461	2.50000	2.499
	17 Anthracene	178	10.762	10.762	(1.008)	318032	2.50000	2.505
	19 Fluoranthene	202	12.198	12.198	(1.142)	282810	2.50000	2.632
	20 Pyrene	202	12.488	12.488	(0.893)	296344	2.50000	2.341
	22 Benzo(a)anthracene	228	13.965	13.965	(0.998)	255634	2.50000	2.371
*	23 Chrysene-d12	240	13.989	13.989	(1.000)	179856	2.00000	
	24 Chrysene	228	14.018	14.018	(1.002)	248570	2.50000	2.453
	28 Benzo(b)fluoranthene	252	15.336	15.336	(0.965)	261870	2.50000	2.637
	29 Benzo(k)fluoranthene	252	15.366	15.366	(0.967)	248686	2.50000	2.398
	30 Benzo(a)pyrene	252	15.821	15.821	(0.995)	221281	2.50000	2.470
*	31 Perylene-d12	264	15.898	15.898	(1.000)	175373	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.813	17.813	(1.120)	248222	2.50000	2.581
$	32 Dibenz(a,h)anthrancene-d14	292	17.736	17.736	(1.116)	153297	2.50000	2.667

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
34 Dibenz(a,h)anthracene	278	17.807	17.807	(1.120)	200778	2.50000	2.576
35 Benzo(g,h,i)perylene	276	18.380	18.380	(1.156)	215056	2.50000	2.531
48 Biphenyl	154	8.138	8.138	(0.917)	272461	2.50000	2.594
49 2,6-Dimethylnaphthalene	156	8.333	8.333	(0.939)	209098	2.50000	2.635
50 2,3,5-Trimethylnaphthalene	170	9.355	9.355	(1.055)	159601	2.50000	2.547
51 1-Methylphenanthrene	192	11.477	11.477	(0.820)	197593	2.50000	2.328
52 Benzo(e)pyrene	252	15.744	15.744	(0.990)	250824	2.50000	2.514
53 Perylene	252	15.939	15.939	(1.003)	226646	2.50000	2.434

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0912.d
Lab Smp Id: CC0912
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info:

Calibration Date: 12-SEP-2006
Calibration Time: 11:02

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	341552	0.00
8 Acenaphthene-d10	169375	84688	338750	169375	0.00
15 Phenanthrene-d10	232185	116092	464370	232185	0.00
23 Chrysene-d12	179856	89928	359712	179856	0.00
31 Perylene-d12	175373	87686	350746	175373	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.00
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.00
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.00
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0912.d
Analysis Type:
Lab Sample ID: CC0912
Method: /chem3/nt1.i/20060912.b/simpna.m

Injection Date: 12-SEP-2006 11:02
Init. Cal. Date(s): 04-SEP-2006 04-SEP-2006
Init. Cal. Times: 11:35 13:38
Quant Type: ISTD

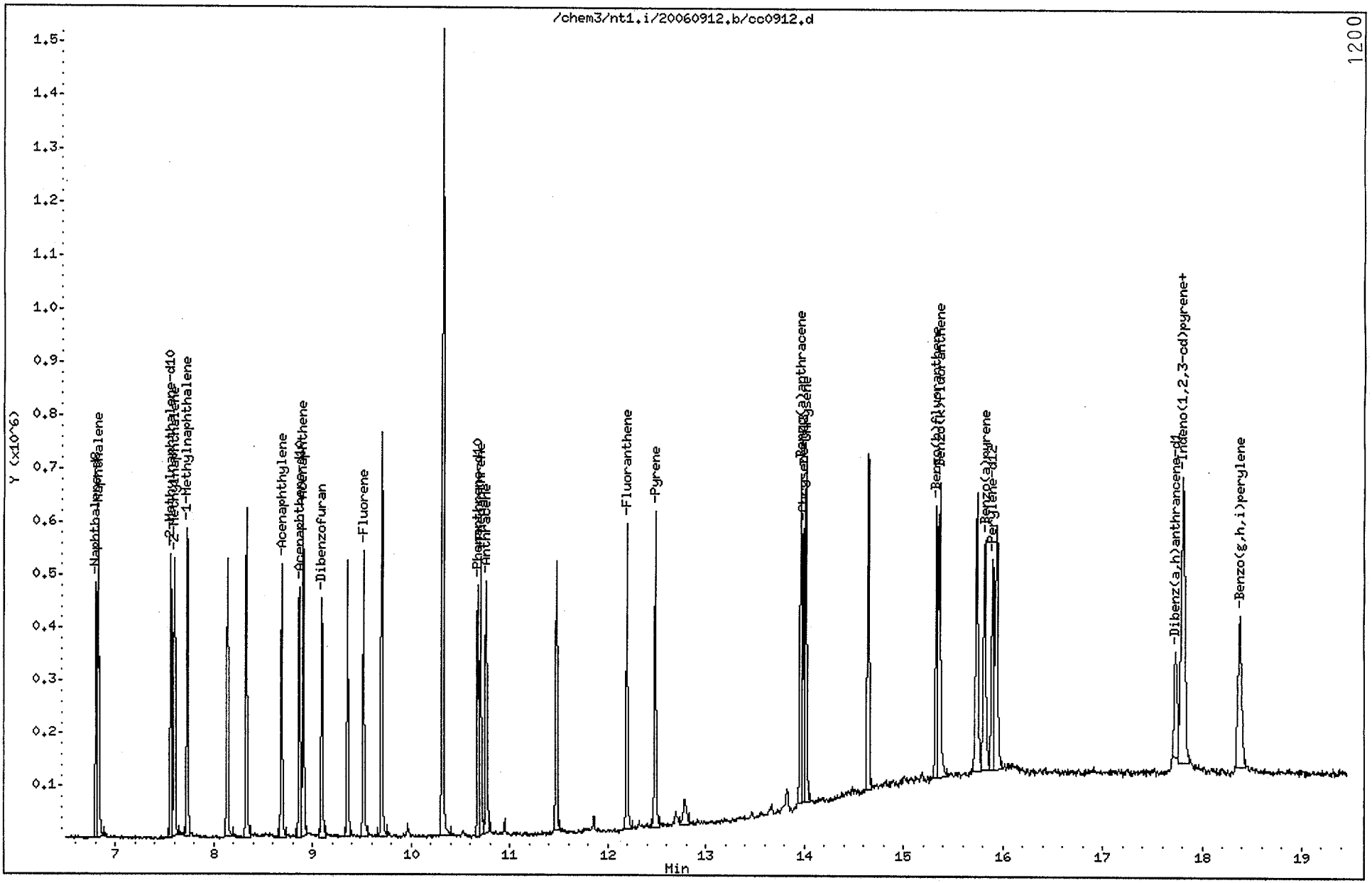
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.96088	0.99276	0.010	-3.31800	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.49593	0.49657	0.010	-0.12792	20.00000	Averaged
4 2-Methylnaphthalene	0.51069	0.53095	0.010	-3.96673	20.00000	Averaged
5 1-Methylnaphthalene	0.55418	0.56923	0.010	-2.71484	20.00000	Averaged
7 Acenaphthylene	1.64312	1.73888	0.010	-5.82788	20.00000	Averaged
9 Acenaphthene	0.99240	1.02646	0.010	-3.43264	20.00000	Averaged
10 Dibenzofuran	1.41038	1.43815	0.010	-1.96897	20.00000	Averaged
11 Fluorene	1.07671	1.13677	0.010	-5.57887	20.00000	Averaged
$ 13 2,4,6-Tribromophenol(ester)	0.05618	0.05711	0.010	-1.66466	20.00000	Averaged
14 Pentachlorophenol(ester)	0.07455	0.07646	0.010	-2.56163	20.00000	Averaged
16 Phenanthrene	1.08413	1.08349	0.010	0.05981	20.00000	Averaged
17 Anthracene	1.09341	1.09579	0.010	-0.21751	20.00000	Averaged
19 Fluoranthene	0.92539	0.97443	0.010	-5.29927	20.00000	Averaged
20 Pyrene	1.40761	1.31814	0.010	6.35612	20.00000	Averaged
22 Benzo(a)anthracene	1.19907	1.13706	0.010	5.17155	20.00000	Averaged
24 Chrysene	1.12677	1.10564	0.010	1.87525	20.00000	Averaged
28 Benzo(b)fluoranthene	1.13256	1.19457	0.010	-5.47523	20.00000	Averaged
29 Benzo(k)fluoranthene	1.18284	1.13443	0.010	4.09257	20.00000	Averaged
30 Benzo(a)pyrene	1.02151	1.00942	0.010	1.18409	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.09663	1.13231	0.010	-3.25431	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.65540	0.69929	0.010	-6.69806	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.88880	0.91589	0.010	-3.04746	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.96916	0.98102	0.010	-1.22403	20.00000	Averaged
48 Biphenyl	1.24024	1.28690	0.010	-3.76249	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.93686	0.98762	0.010	-5.41803	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.74007	0.75384	0.010	-1.86011	20.00000	Averaged
51 1-Methylphenanthrene	0.94400	0.87889	0.010	6.89664	20.00000	Averaged
52 Benzo(e)pyrene	1.13801	1.14418	0.010	-0.54221	20.00000	Averaged
53 Perylene	1.06188	1.03389	0.010	2.63629	20.00000	Averaged

Data File: /chem3/nt1.i/20060912.b/cc0912.d
Date : 12-SEP-2006 11:02
Client ID:
Sample Info: CC0912

Instrument: nt1.i

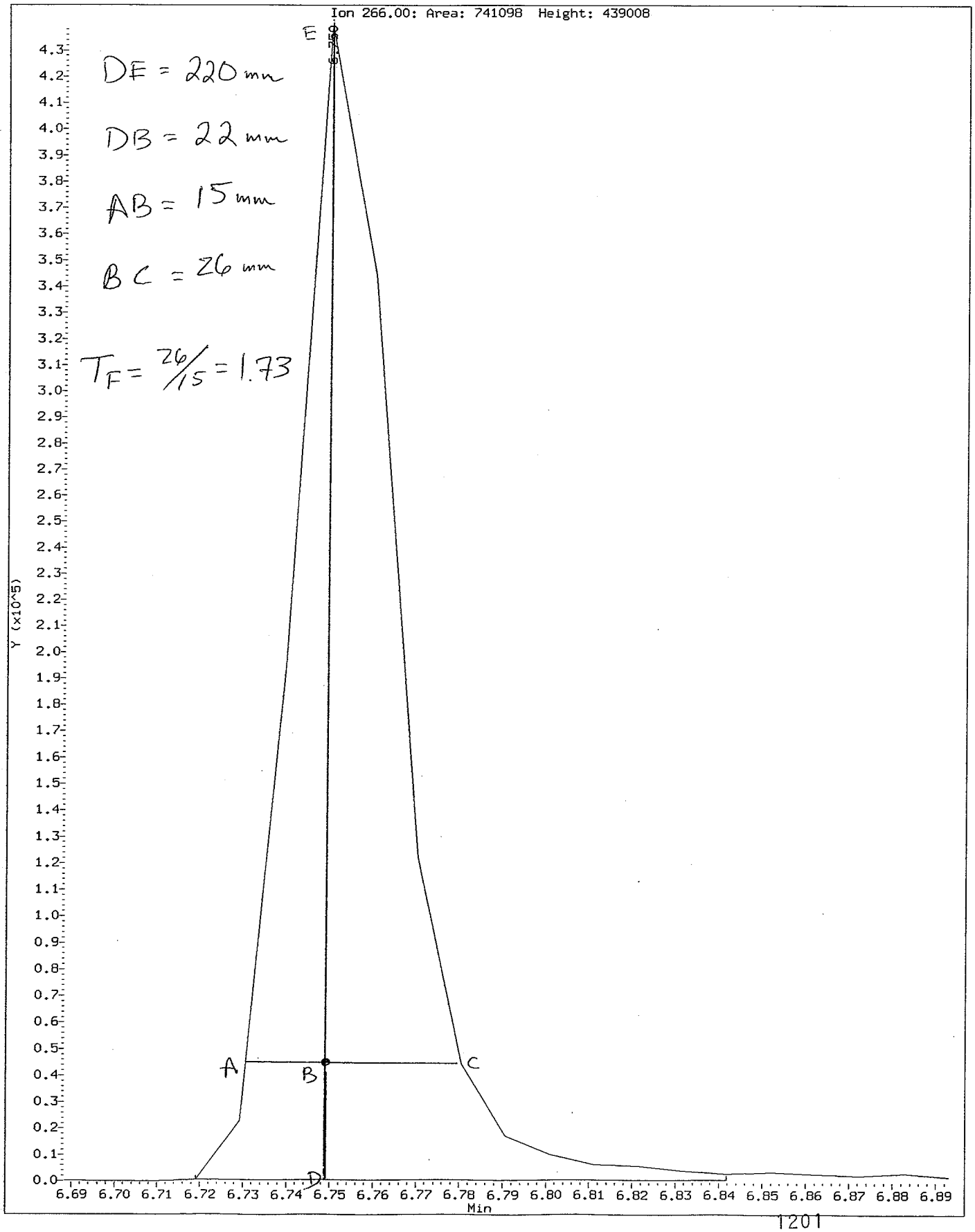
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



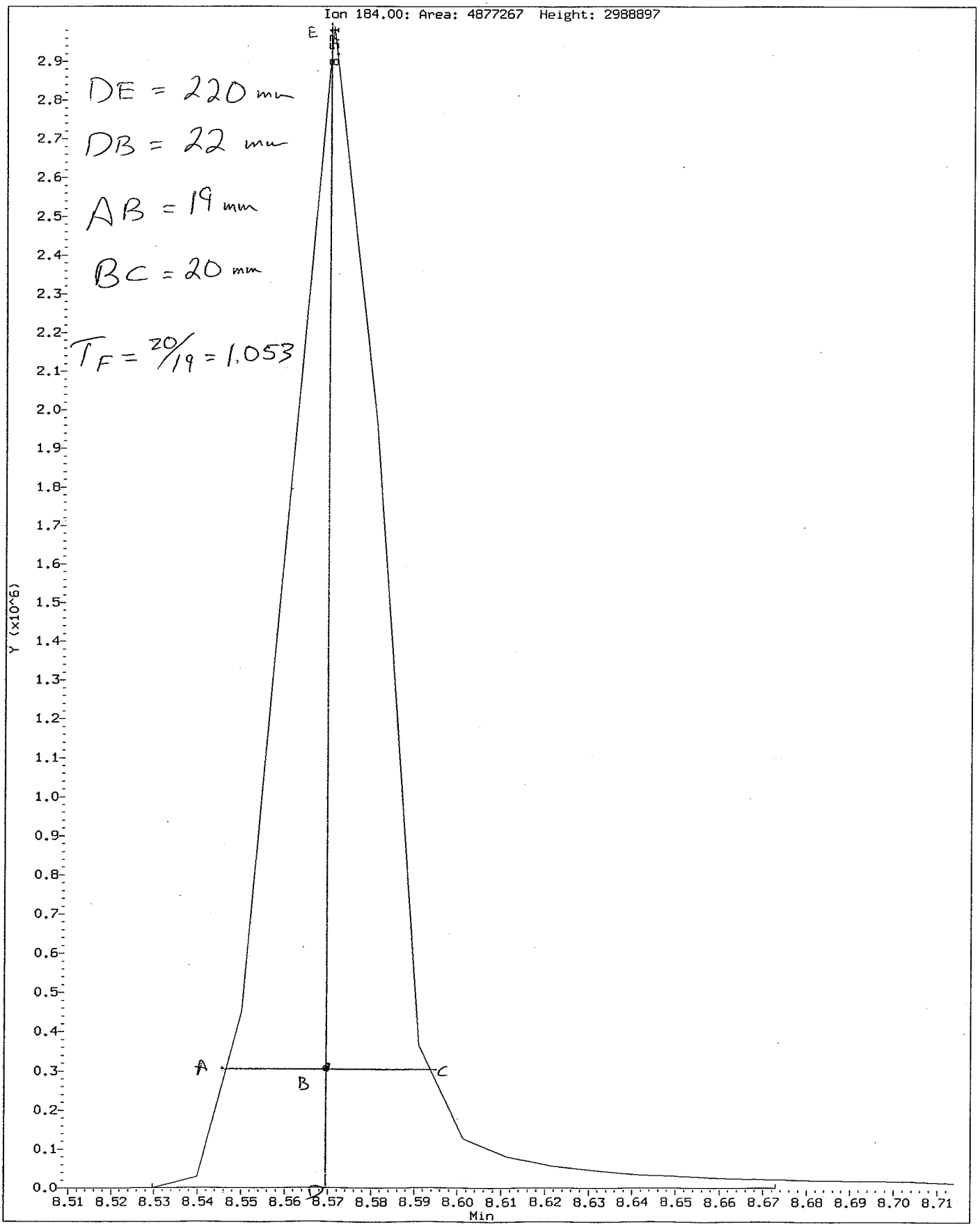
Data File: /chem3/nt1.i/20060912.b/ddt.b/df0912.d
Injection Date: 12-SEP-2006 10:47
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060912.b/ddt.b/df0912.d
Injection Date: 12-SEP-2006 10:47
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060912.b/ddt.b/df0912.d
Method: /chem3/nt1.i/20060912.b/ddt.b/sw846ddt.m
Analysis Date: 12-SEP-2006 10:47

ARI ID: DF0912
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.750	741098
Benzidine	8.571	4877267
4,4'-DDE	8.837	13887
4,4'-DDD	9.256	129835
4,4'-DDT	9.624	1348306

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

$$\text{DDT Percent Breakdown} = \frac{(13887 + 129835) * 100}{(13887 + 129835 + 1348306)}$$

DDT Percent Breakdown = 9.6 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JU43 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 09/13/06

Init. Calib. Date: 09/04/06 Cont. Calib. Time: 1018

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.961	0.984	0.100	-2.4	
2-Methylnaphthalene	0.511	0.543	0.100	-6.3	
Acenaphthylene	1.643	1.649	0.100	-0.4	
Acenaphthene	0.992	0.983	0.100	0.9	20.0
Dibenzofuran	1.410	1.444	0.100	-2.4	
Fluorene	1.077	1.104	0.100	-2.5	
Phenanthrene	1.084	1.127	0.100	-4.0	
Anthracene	1.093	1.114	0.100	-1.9	
Fluoranthene	0.925	0.965	0.100	-4.3	20.0
Pyrene	1.408	1.373	0.100	2.5	
Benzo(a)anthracene	1.199	1.179	0.100	1.7	
Chrysene	1.127	1.124	0.100	0.3	
Benzo(b)fluoranthene	1.133	1.109	0.100	2.1	
Benzo(k)fluoranthene	1.183	1.236	0.100	-4.5	
Benzo(a)pyrene	1.021	1.007	0.100	1.4	20.0
Indeno(1,2,3-cd)pyrene	1.096	1.087	0.100	0.8	
Dibenz(a,h)anthracene	0.889	0.894	0.100	-0.6	
Benzo(g,h,i)perylene	0.969	0.944	0.100	2.6	
1-Methylnaphthalene	0.554	0.562	0.100	-1.4	
Biphenyl	1.240	1.253	0.100	-1.0	
2,6-Dimethylnaphthalene	0.937	0.944	0.100	-0.7	
2,3,5-Trimethylnaphthalene	0.740	0.765	0.100	-3.4	
1-Methylphenanthrene	0.944	0.878	0.100	7.0	
Benzo(e)pyrene	1.138	1.146	0.100	-0.7	
Perylene	1.062	1.023	0.100	3.7	
2-Methylnaphthalene-d10	0.496	0.517	0.100	-4.2	
Dibenz(a,h)anthrancene-d14	0.655	0.679	0.100	-3.7	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060913.b/cc0913.d
Lab Smp Id: CC0913
Inj Date : 13-SEP-2006 10:18
Operator : VTS Inst ID: nt1.i
Smp Info : CC0913
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060913.b/simpna.m
Meth Date : 13-Sep-2006 12:44 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.807	6.807	(1.000)	337011	2.00000	
	2 Naphthalene	128	6.831	6.831	(1.003)	414476	2.50000	2.560
$	3 2-Methylnaphthalene-d10	152	7.563	7.563	(1.111)	217972	2.50000	2.608
	4 2-Methylnaphthalene	142	7.599	7.599	(1.116)	228579	2.50000	2.656
	5 1-Methylnaphthalene	142	7.729	7.729	(1.135)	236553	2.50000	2.533
	7 Acenaphthylene	152	8.686	8.686	(0.980)	353975	2.50000	2.509
*	8 Acenaphthene-d10	164	8.864	8.864	(1.000)	171704	2.00000	
	9 Acenaphthene	153	8.905	8.905	(1.005)	210984	2.50000	2.476
	10 Dibenzofuran	168	9.094	9.094	(1.026)	309980	2.50000	2.560
	11 Fluorene	166	9.514	9.514	(1.073)	236918	2.50000	2.563
*	15 Phenanthrene-d10	188	10.672	10.672	(1.000)	223924	2.00000	
	16 Phenanthrene	178	10.702	10.702	(1.003)	315579	2.50000	2.600
	17 Anthracene	178	10.761	10.761	(1.008)	311775	2.50000	2.547
	19 Fluoranthene	202	12.197	12.197	(1.143)	270226	2.50000	2.608
	20 Pyrene	202	12.481	12.481	(0.893)	296168	2.50000	2.438
	22 Benzo(a)anthracene	228	13.964	13.964	(0.999)	254413	2.50000	2.459
*	23 Chrysene-d12	240	13.982	13.982	(1.000)	172575	2.00000	
	24 Chrysene	228	14.017	14.017	(1.003)	242403	2.50000	2.493
	28 Benzo(b)fluoranthene	252	15.335	15.335	(0.965)	239973	2.50000	2.448
	29 Benzo(k)fluoranthene	252	15.365	15.365	(0.967)	267414	2.50000	2.612
	30 Benzo(a)pyrene	252	15.814	15.814	(0.995)	217885	2.50000	2.464
*	31 Perylene-d12	264	15.897	15.897	(1.000)	173129	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.806	17.806	(1.120)	235235	2.50000	2.478
$	32 Dibenz(a,h)anthrancene-d14	292	17.729	17.729	(1.115)	146907	2.50000	2.589
	34 Dibenz(a,h)anthracene	278	17.794	17.794	(1.119)	193478	2.50000	2.515
	35 Benzo(g,h,i)perylene	276	18.367	18.367	(1.155)	204250	2.50000	2.435

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
48 Biphenyl	154	8.137	8.137	(0.918)	269017	2.50000	2.527
49 2,6-Dimethylnaphthalene	156	8.332	8.332	(0.940)	202521	2.50000	2.518
50 2,3,5-Trimethylnaphthalene	170	9.354	9.354	(1.055)	164145	2.50000	2.583
51 1-Methylphenanthrene	192	11.476	11.476	(0.821)	189452	2.50000	2.326
52 Benzo(e)pyrene	252	15.737	15.737	(0.990)	248048	2.50000	2.518
53 Perylene	252	15.938	15.938	(1.003)	221352	2.50000	2.408

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0913.d
Lab Smp Id: CC0913
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060913.b/simpna.m
Misc Info:

Calibration Date: 13-SEP-2006
Calibration Time: 10:18

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	337011	168506	674022	337011	0.00
8 Acenaphthene-d10	171704	85852	343408	171704	0.00
15 Phenanthrene-d10	223924	111962	447848	223924	0.00
23 Chrysene-d12	172575	86288	345150	172575	0.00
31 Perylene-d12	173129	86564	346258	173129	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.00
8 Acenaphthene-d10	8.86	8.36	9.36	8.86	0.00
15 Phenanthrene-d10	10.67	10.17	11.17	10.67	0.00
23 Chrysene-d12	13.98	13.48	14.48	13.98	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0913.d
Analysis Type:
Lab Sample ID: CC0913
Method: /chem3/nt1.i/20060913.b/simpna.m

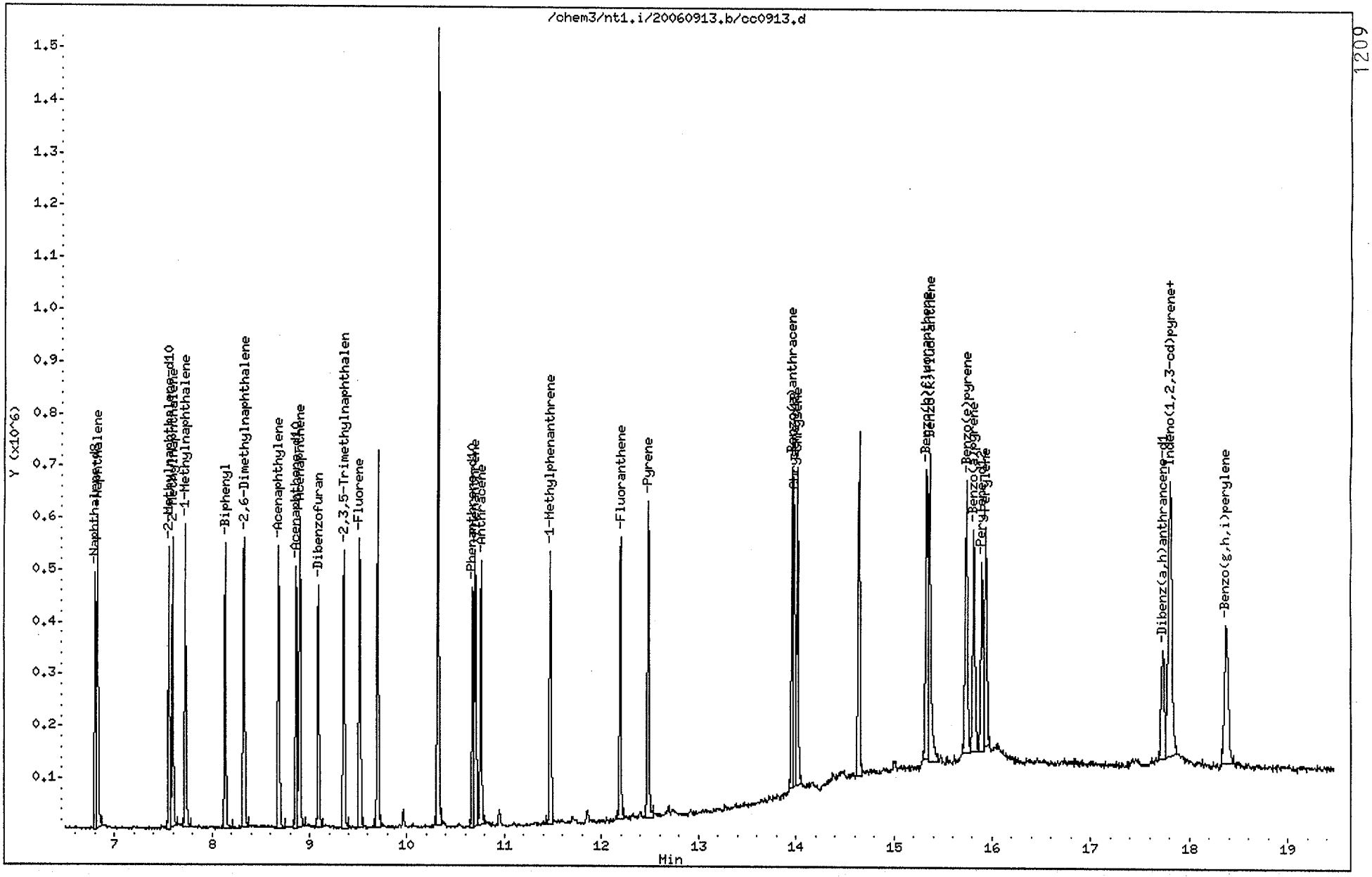
Injection Date: 13-SEP-2006 10:18
Init. Cal. Date(s): 04-SEP-2006 04-SEP-2006
Init. Cal. Times: 11:35 13:38
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.96088	0.98389	0.010	-2.39471	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.49593	0.51742	0.010	-4.33335	20.00000	Averaged
4 2-Methylnaphthalene	0.51069	0.54260	0.010	-6.24866	20.00000	Averaged
5 1-Methylnaphthalene	0.55418	0.56153	0.010	-1.32630	20.00000	Averaged
7 Acenaphthylene	1.64312	1.64923	0.010	-0.37197	20.00000	Averaged
9 Acenaphthene	0.99240	0.98301	0.010	0.94548	20.00000	Averaged
10 Dibenzofuran	1.41038	1.44425	0.010	-2.40152	20.00000	Averaged
11 Fluorene	1.07671	1.10384	0.010	-2.52043	20.00000	Averaged
16 Phenanthrene	1.08413	1.12745	0.010	-3.99548	20.00000	Averaged
17 Anthracene	1.09341	1.11386	0.010	-1.87002	20.00000	Averaged
19 Fluoranthene	0.92539	0.96542	0.010	-4.32543	20.00000	Averaged
20 Pyrene	1.40761	1.37294	0.010	2.46307	20.00000	Averaged
22 Benzo(a)anthracene	1.19907	1.17937	0.010	1.64270	20.00000	Averaged
24 Chrysene	1.12677	1.12370	0.010	0.27239	20.00000	Averaged
28 Benzo(b)fluoranthene	1.13256	1.10887	0.010	2.09147	20.00000	Averaged
29 Benzo(k)fluoranthene	1.18284	1.23568	0.010	-4.46683	20.00000	Averaged
30 Benzo(a)pyrene	1.02151	1.00681	0.010	1.43923	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.09663	1.08698	0.010	0.87941	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.65540	0.67883	0.010	-3.57598	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.88880	0.89403	0.010	-0.58813	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.96916	0.94380	0.010	2.61579	20.00000	Averaged
48 Biphenyl	1.24024	1.25340	0.010	-1.06131	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.93686	0.94358	0.010	-0.71724	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.74007	0.76478	0.010	-3.33910	20.00000	Averaged
51 1-Methylphenanthrene	0.94400	0.87824	0.010	6.96626	20.00000	Averaged
52 Benzo(e)pyrene	1.13801	1.14619	0.010	-0.71836	20.00000	Averaged
53 Perylene	1.06188	1.02283	0.010	3.67762	20.00000	Averaged

Data File: /chem3/nt1.i/20060913.b/cc0913.d
Date : 13-SEP-2006 10:18
Client ID:
Sample Info: CC0913

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

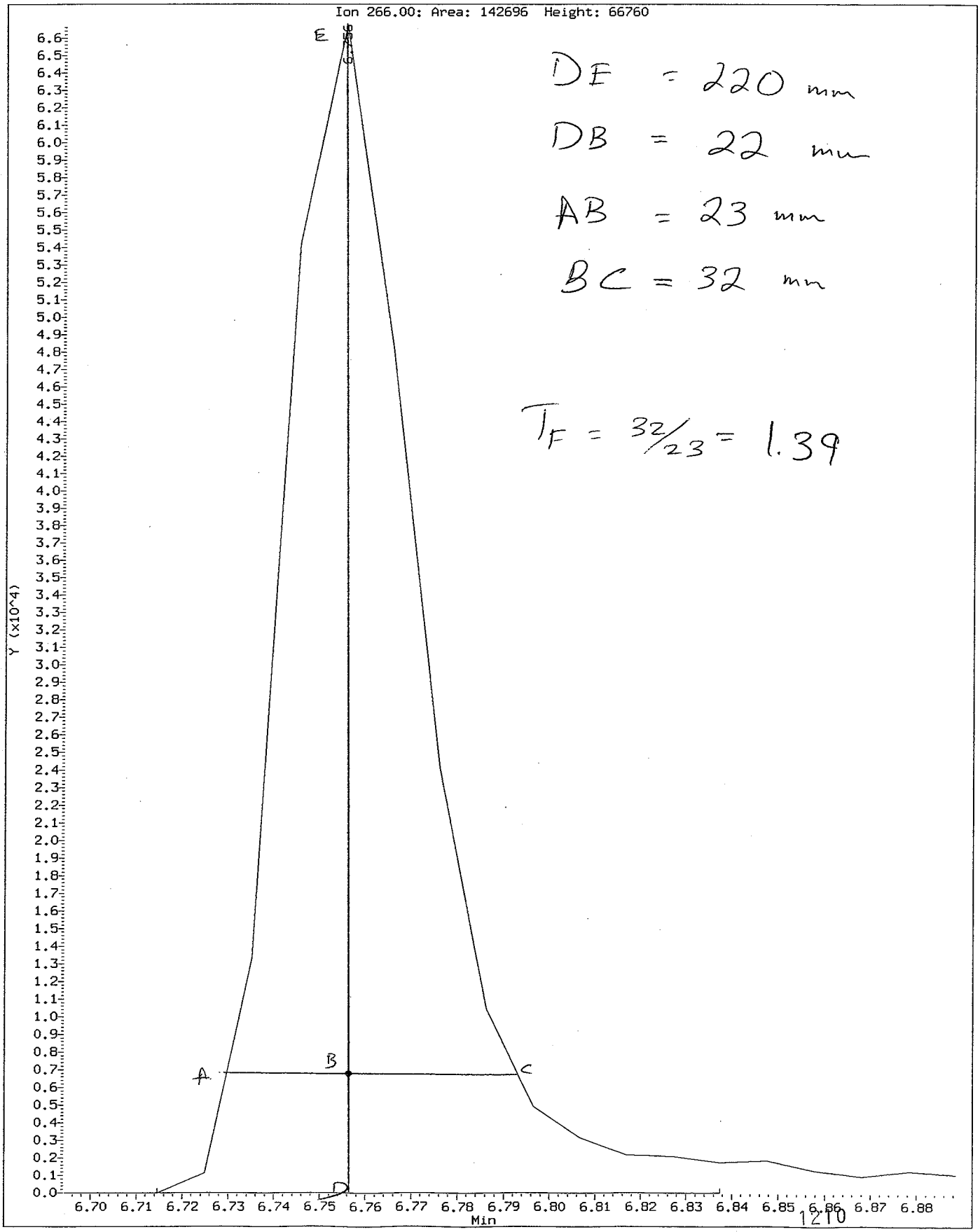
Column phase: ZB-5



1209

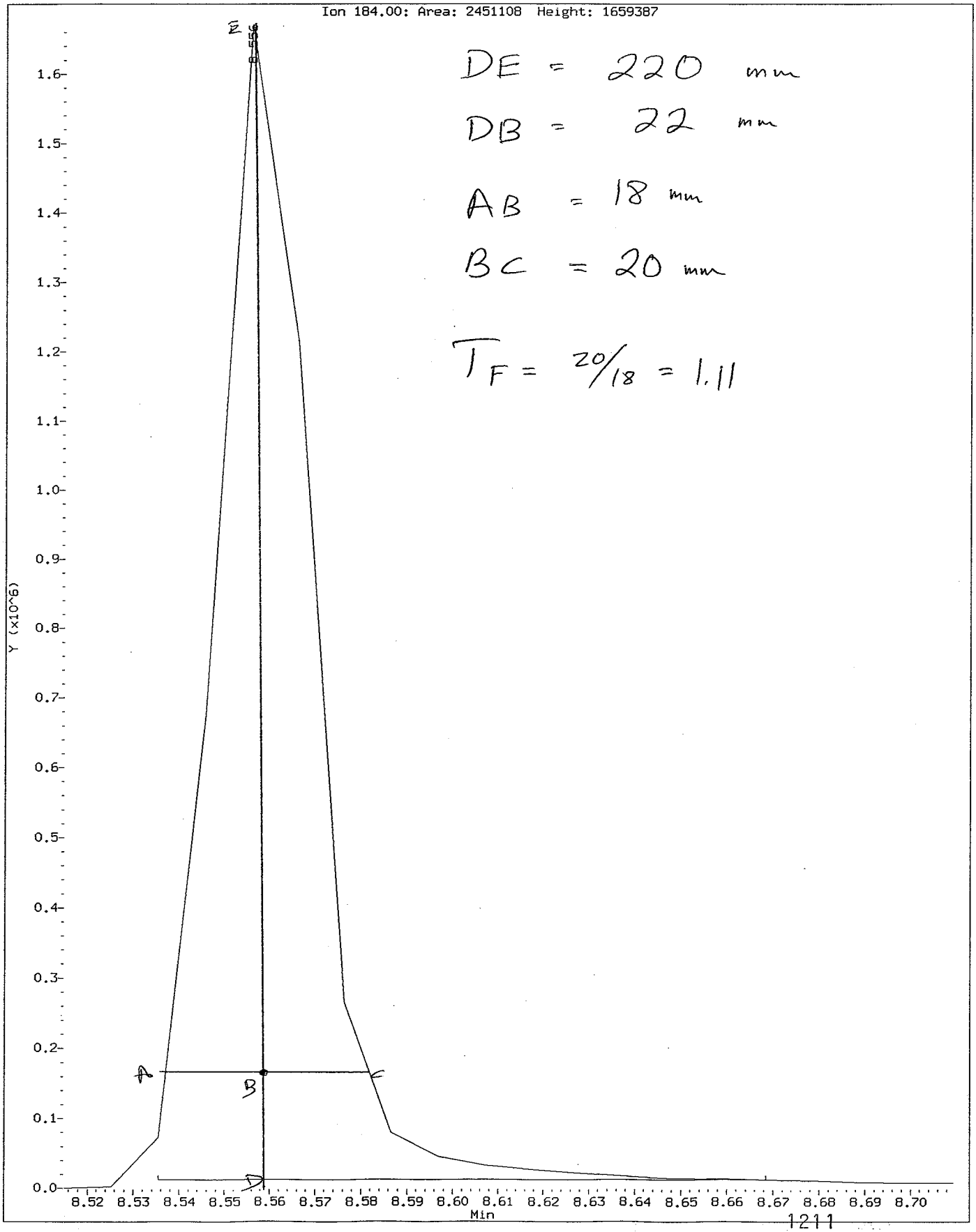
Data File: /chem3/nt1.i/20060913.b/ddt.b/df0913.d
Injection Date: 13-SEP-2006 10:03
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060913.b/ddt.b/df0913.d
Injection Date: 13-SEP-2006 10:03
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



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

Data file: /chem3/nt1.i/20060913.b/ddt.b/df0913.d ARI ID: DF0913
Method: /chem3/nt1.i/20060913.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 13-SEP-2006 10:03 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.756	142696
Benzidine	8.556	2451108
4,4'-DDE	8.822	12654
4,4'-DDD	9.241	69580
4,4'-DDT	9.620	641078

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

$$\text{DDT Percent Breakdown} = \frac{(\ 12654 + 69580) * 100}{(\ 12654 + 69580 + 641078)}$$

DDT Percent Breakdown = 11.4 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

ARI Job No: JU43 Project: T4 EARLY ACTION

Instrument ID: NT1 Cont. Calib. Date: 09/14/06

Init. Calib. Date: 09/04/06 Cont. Calib. Time: 0835

COMPOUND	$\overline{RRF}$	RRF2.5	MIN RRF	%D	MAX %D
Naphthalene	0.961	1.016	0.100	-5.7	
2-Methylnaphthalene	0.511	0.548	0.100	-7.2	
Acenaphthylene	1.643	1.657	0.100	-0.8	
Acenaphthene	0.992	0.991	0.100	0.1	20.0
Dibenzofuran	1.410	1.454	0.100	-3.1	
Fluorene	1.077	1.110	0.100	-3.1	
Phenanthrene	1.084	1.138	0.100	-5.0	
Anthracene	1.093	1.142	0.100	-4.5	
Fluoranthene	0.925	0.975	0.100	-5.4	20.0
Pyrene	1.408	1.334	0.100	5.2	
Benzo(a)anthracene	1.199	1.191	0.100	0.7	
Chrysene	1.127	1.147	0.100	-1.8	
Benzo(b)fluoranthene	1.133	1.077	0.100	4.9	
Benzo(k)fluoranthene	1.183	1.252	0.100	-5.8	
Benzo(a)pyrene	1.021	1.019	0.100	0.2	20.0
Indeno(1,2,3-cd)pyrene	1.096	1.127	0.100	-2.8	
Dibenz(a,h)anthracene	0.889	0.915	0.100	-2.9	
Benzo(g,h,i)perylene	0.969	0.959	0.100	1.0	
1-Methylnaphthalene	0.554	0.575	0.100	-3.8	
Biphenyl	1.240	1.254	0.100	-1.1	
2,6-Dimethylnaphthalene	0.937	0.960	0.100	-2.4	
2,3,5-Trimethylnaphthalene	0.740	0.754	0.100	-1.9	
1-Methylphenanthrene	0.944	0.897	0.100	5.0	
Benzo(e)pyrene	1.138	1.159	0.100	-1.8	
Perylene	1.062	1.040	0.100	2.1	
2-Methylnaphthalene-d10	0.496	0.518	0.100	-4.4	
Dibenz(a,h)anthrancene-d14	0.655	0.682	0.100	-4.1	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring
Data file : /chem3/nt1.i/20060914.b/cc0914.d
Lab Smp Id: CC0914
Inj Date : 14-SEP-2006 08:35
Operator : VTS Inst ID: nt1.i
Smp Info : CC0914
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20060914.b/simpna.m
Meth Date : 14-Sep-2006 12:19 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.813	6.813	(1.000)	296130	2.00000	
	2 Naphthalene	128	6.837	6.837	(1.003)	375996	2.50000	2.643
$	3 2-Methylnaphthalene-d10	152	7.570	7.570	(1.111)	191822	2.50000	2.612
	4 2-Methylnaphthalene	142	7.605	7.605	(1.116)	202792	2.50000	2.682
	5 1-Methylnaphthalene	142	7.735	7.735	(1.135)	212885	2.50000	2.594
	7 Acenaphthylene	152	8.687	8.687	(0.979)	312188	2.50000	2.521
*	8 Acenaphthene-d10	164	8.870	8.870	(1.000)	150727	2.00000	
	9 Acenaphthene	153	8.906	8.906	(1.004)	186767	2.50000	2.497
	10 Dibenzofuran	168	9.095	9.095	(1.025)	273988	2.50000	2.578
	11 Fluorene	166	9.520	9.520	(1.073)	209196	2.50000	2.578
*	15 Phenanthrene-d10	188	10.679	10.679	(1.000)	195473	2.00000	
	16 Phenanthrene	178	10.708	10.708	(1.003)	278111	2.50000	2.625
	17 Anthracene	178	10.761	10.761	(1.008)	278955	2.50000	2.610
	19 Fluoranthene	202	12.197	12.197	(1.142)	238265	2.50000	2.634
	20 Pyrene	202	12.487	12.487	(0.893)	257103	2.50000	2.369
	22 Benzo(a)anthracene	228	13.965	13.965	(0.998)	229640	2.50000	2.483
*	23 Chrysene-d12	240	13.988	13.988	(1.000)	154233	2.00000	
	24 Chrysene	228	14.018	14.018	(1.002)	221191	2.50000	2.546
	28 Benzo(b)fluoranthene	252	15.336	15.336	(0.965)	213083	2.50000	2.378
	29 Benzo(k)fluoranthene	252	15.365	15.365	(0.967)	247798	2.50000	2.647
	30 Benzo(a)pyrene	252	15.814	15.814	(0.995)	201637	2.50000	2.494
*	31 Perylene-d12	264	15.897	15.897	(1.000)	158265	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.806	17.806	(1.120)	222998	2.50000	2.570
$	32 Dibenz(a,h)anthrancene-d14	292	17.729	17.729	(1.115)	134984	2.50000	2.603
	34 Dibenz(a,h)anthracene	278	17.794	17.794	(1.119)	181098	2.50000	2.575
	35 Benzo(g,h,i)perylene	276	18.374	18.374	(1.156)	189696	2.50000	2.473

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
48 Biphenyl	154	8.143	8.143	(0.918)	236209	2.50000	2.527
49 2,6-Dimethylnaphthalene	156	8.332	8.332	(0.939)	180794	2.50000	2.561
50 2,3,5-Trimethylnaphthalene	170	9.355	9.355	(1.055)	142011	2.50000	2.546
51 1-Methylphenanthrene	192	11.476	11.476	(0.820)	172975	2.50000	2.376
52 Benzo(e)pyrene	252	15.738	15.738	(0.990)	229376	2.50000	2.547
53 Perylene	252	15.939	15.939	(1.003)	205828	2.50000	2.449

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0914.d
Lab Smp Id: CC0914
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060914.b/simpna.m
Misc Info:

Calibration Date: 14-SEP-2006
Calibration Time: 08:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	296130	148065	592260	296130	0.00
8 Acenaphthene-d10	150727	75364	301454	150727	0.00
15 Phenanthrene-d10	195473	97736	390946	195473	0.00
23 Chrysene-d12	154233	77116	308466	154233	0.00
31 Perylene-d12	158265	79132	316530	158265	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.00
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.00
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.00
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0914.d
Analysis Type:
Lab Sample ID: CC0914
Method: /chem3/nt1.i/20060914.b/simpna.m

Injection Date: 14-SEP-2006 08:35
Init. Cal. Date(s): 04-SEP-2006 04-SEP-2006
Init. Cal. Times: 11:35 13:38
Quant Type: ISTD

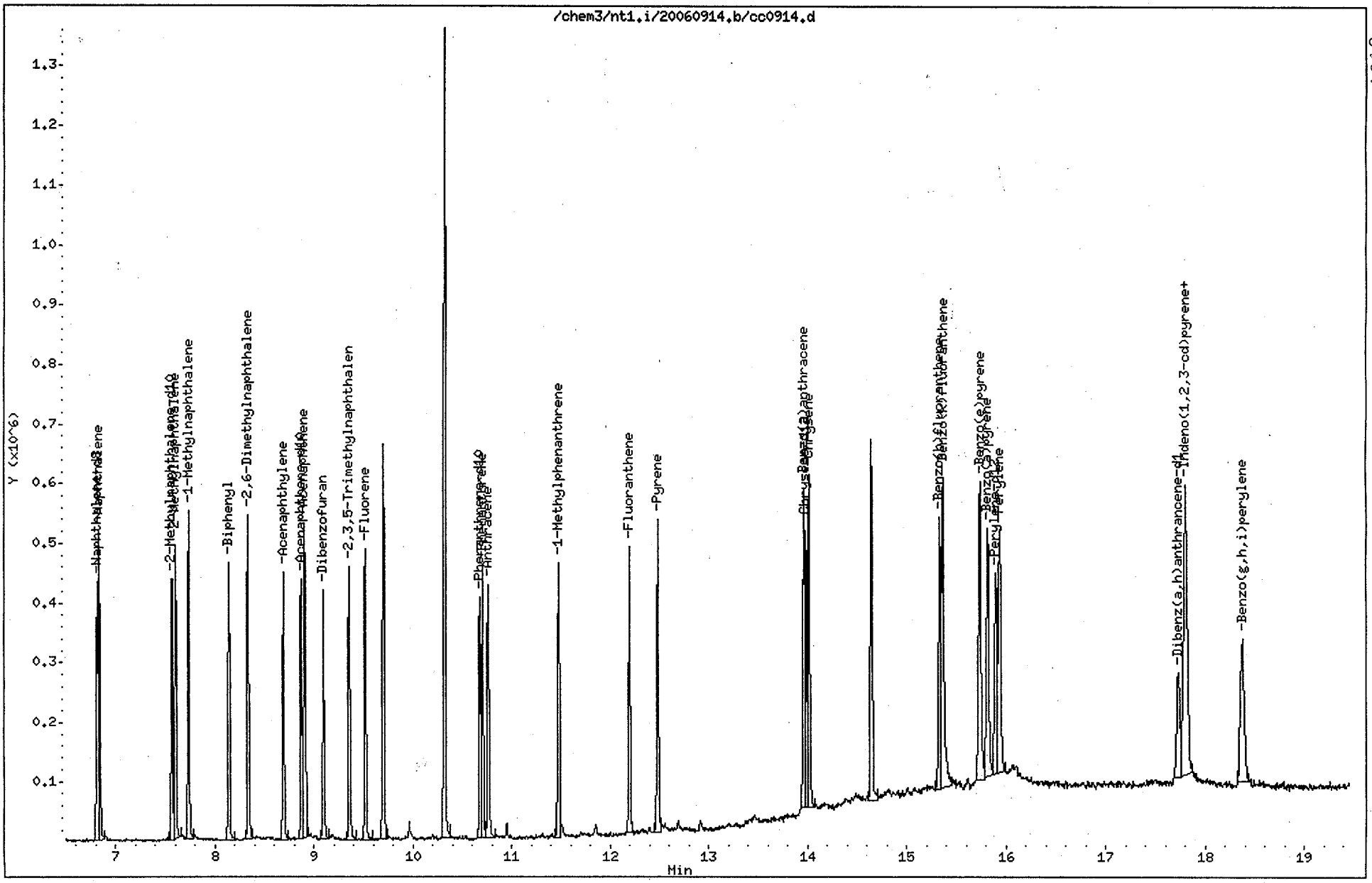
COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.96088	1.01576	0.010	-5.71169	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.49593	0.51821	0.010	-4.49188	20.00000	Averaged
4 2-Methylnaphthalene	0.51069	0.54785	0.010	-7.27527	20.00000	Averaged
5 1-Methylnaphthalene	0.55418	0.57511	0.010	-3.77684	20.00000	Averaged
7 Acenaphthylene	1.64312	1.65697	0.010	-0.84292	20.00000	Averaged
9 Acenaphthene	0.99240	0.99129	0.010	0.11178	20.00000	Averaged
10 Dibenzofuran	1.41038	1.45422	0.010	-3.10830	20.00000	Averaged
11 Fluorene	1.07671	1.11033	0.010	-3.12289	20.00000	Averaged
16 Phenanthrene	1.08413	1.13821	0.010	-4.98770	20.00000	Averaged
17 Anthracene	1.09341	1.14166	0.010	-4.41265	20.00000	Averaged
19 Fluoranthene	0.92539	0.97513	0.010	-5.37490	20.00000	Averaged
20 Pyrene	1.40761	1.33358	0.010	5.25885	20.00000	Averaged
22 Benzo(a)anthracene	1.19907	1.19113	0.010	0.66200	20.00000	Averaged
24 Chrysene	1.12677	1.14731	0.010	-1.82290	20.00000	Averaged
28 Benzo(b)fluoranthene	1.13256	1.07709	0.010	4.89751	20.00000	Averaged
29 Benzo(k)fluoranthene	1.18284	1.25257	0.010	-5.89538	20.00000	Averaged
30 Benzo(a)pyrene	1.02151	1.01924	0.010	0.22266	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.09663	1.12721	0.010	-2.78928	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.65540	0.68232	0.010	-4.10792	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.88880	0.91542	0.010	-2.99443	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.96916	0.95888	0.010	1.06053	20.00000	Averaged
48 Biphenyl	1.24024	1.25371	0.010	-1.08599	20.00000	Averaged
49 2,6-Dimethylnaphthalene	0.93686	0.95958	0.010	-2.42527	20.00000	Averaged
50 2,3,5-Trimethylnaphthalene	0.74007	0.75374	0.010	-1.84702	20.00000	Averaged
51 1-Methylphenanthrene	0.94400	0.89721	0.010	4.95589	20.00000	Averaged
52 Benzo(e)pyrene	1.13801	1.15945	0.010	-1.88397	20.00000	Averaged
53 Perylene	1.06188	1.04042	0.010	2.02097	20.00000	Averaged

Data File: /chem3/nt1.i/20060914.b/cc0914.d
Date : 14-SEP-2006 08:35
Client ID:
Sample Info: CC0914

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

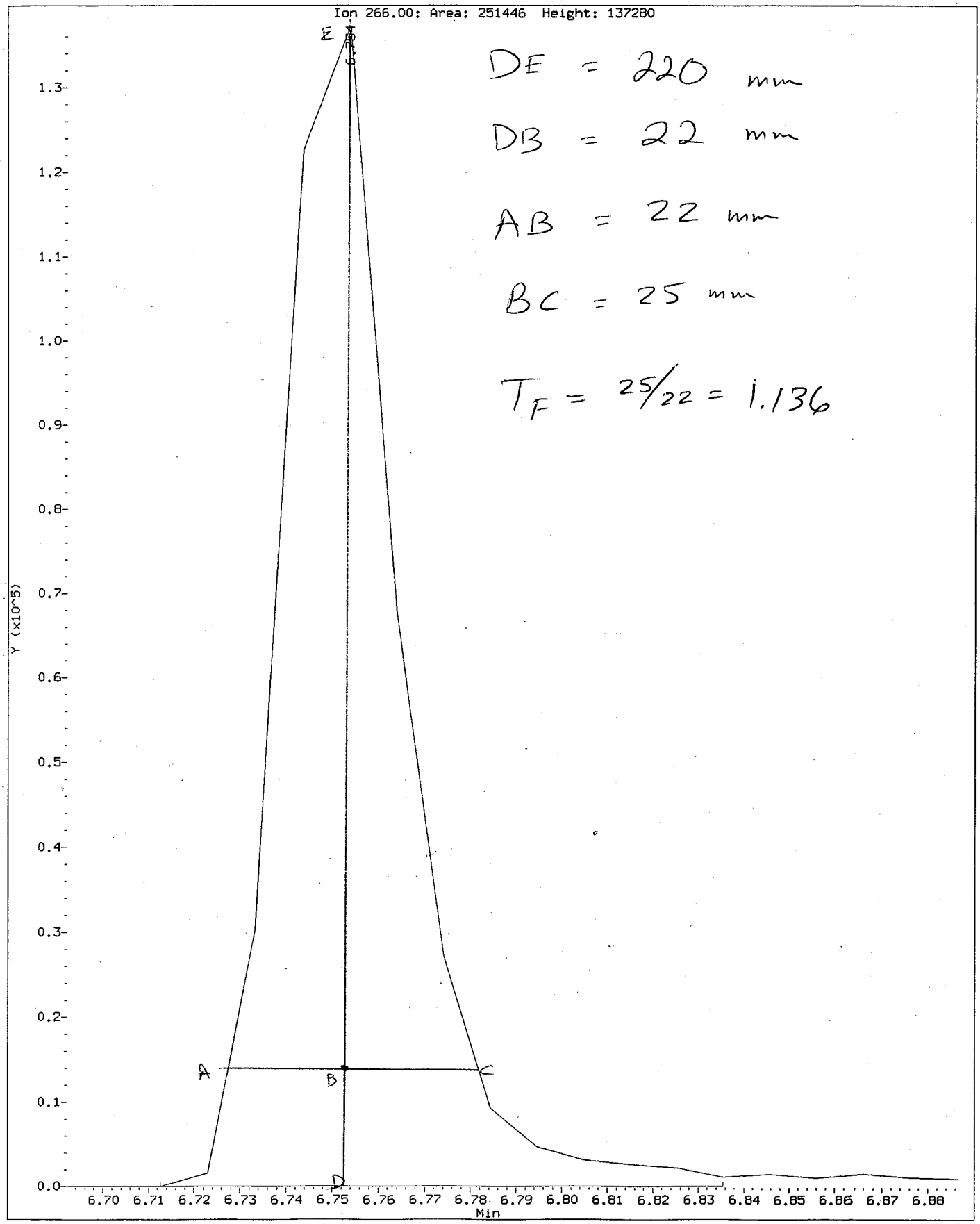
Column phase: ZB-5



1218

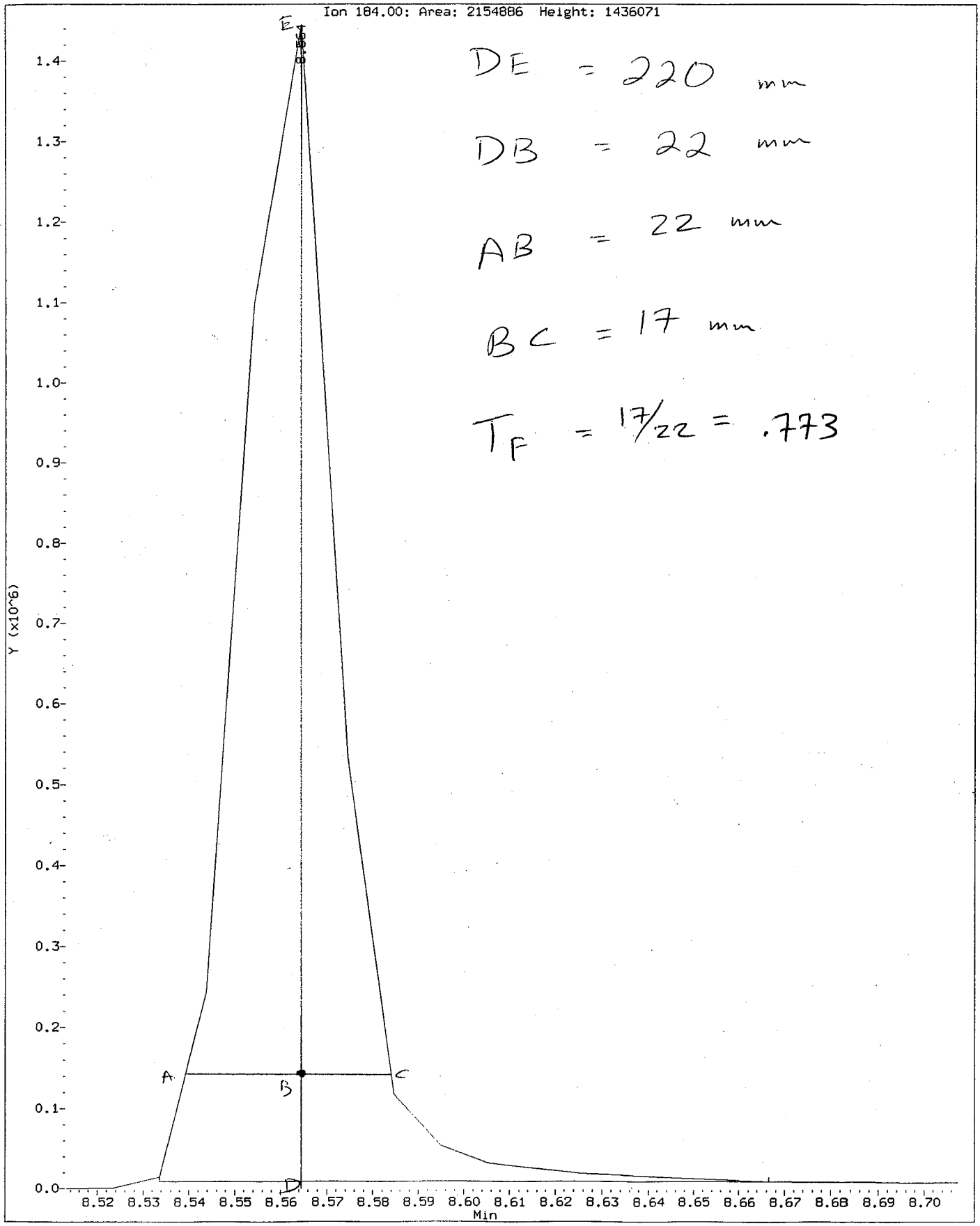
Data File: /chem3/nt1.i/20060914.b/ddt.b/df0914.d
Injection Date: 14-SEP-2006 08:17
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060914.b/ddt.b/df0914.d
Injection Date: 14-SEP-2006 08:17
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



DE = 220 mm

DB = 22 mm

AB = 22 mm

BC = 17 mm

$T_F = 17/22 = .773$

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

Data file: /chem3/nt1.i/20060914.b/ddt.b/df0914.d ARI ID: DF0914
Method: /chem3/nt1.i/20060914.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 14-SEP-2006 08:17 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.754	251446
Benzidine	8.564	2154886
4,4'-DDE	8.830	4398
4,4'-DDD	9.250	39235
4,4'-DDT	9.618	631822

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

$$\text{DDT Percent Breakdown} = \frac{(\ 4398 + 39235) * 100}{(\ 4398 + 39235 + 631822)}$$

DDT Percent Breakdown = 6.5 %

SIM Semivolatile Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20060904A.b/df0904a.d

Date : 04-SEP-2006 11:15

Client ID:

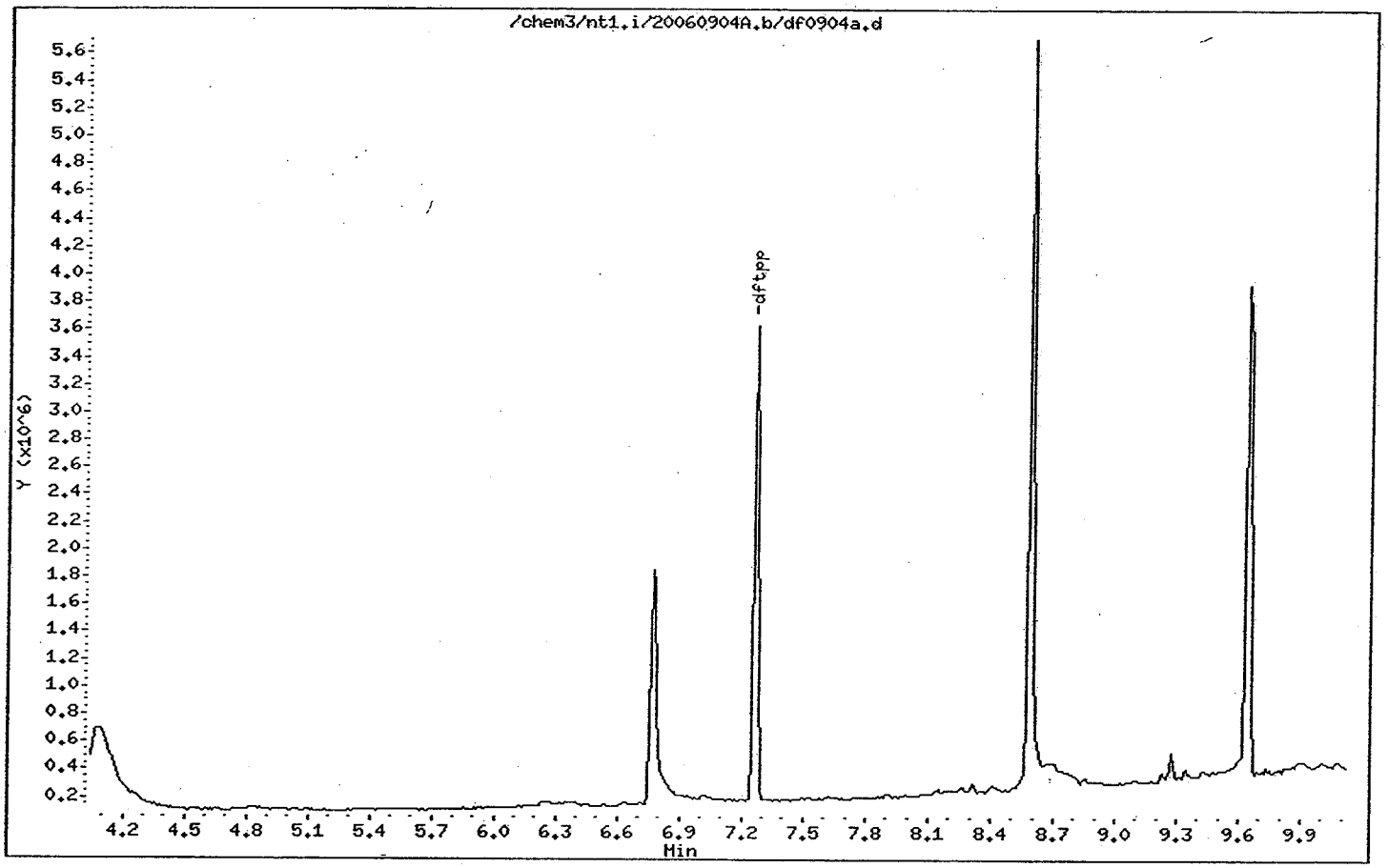
Instrument: nt1.i

Sample Info: DF0904

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060904A.b/df0904a.d

Date : 04-SEP-2006 11:15

Client ID:

Instrument: nt1.i

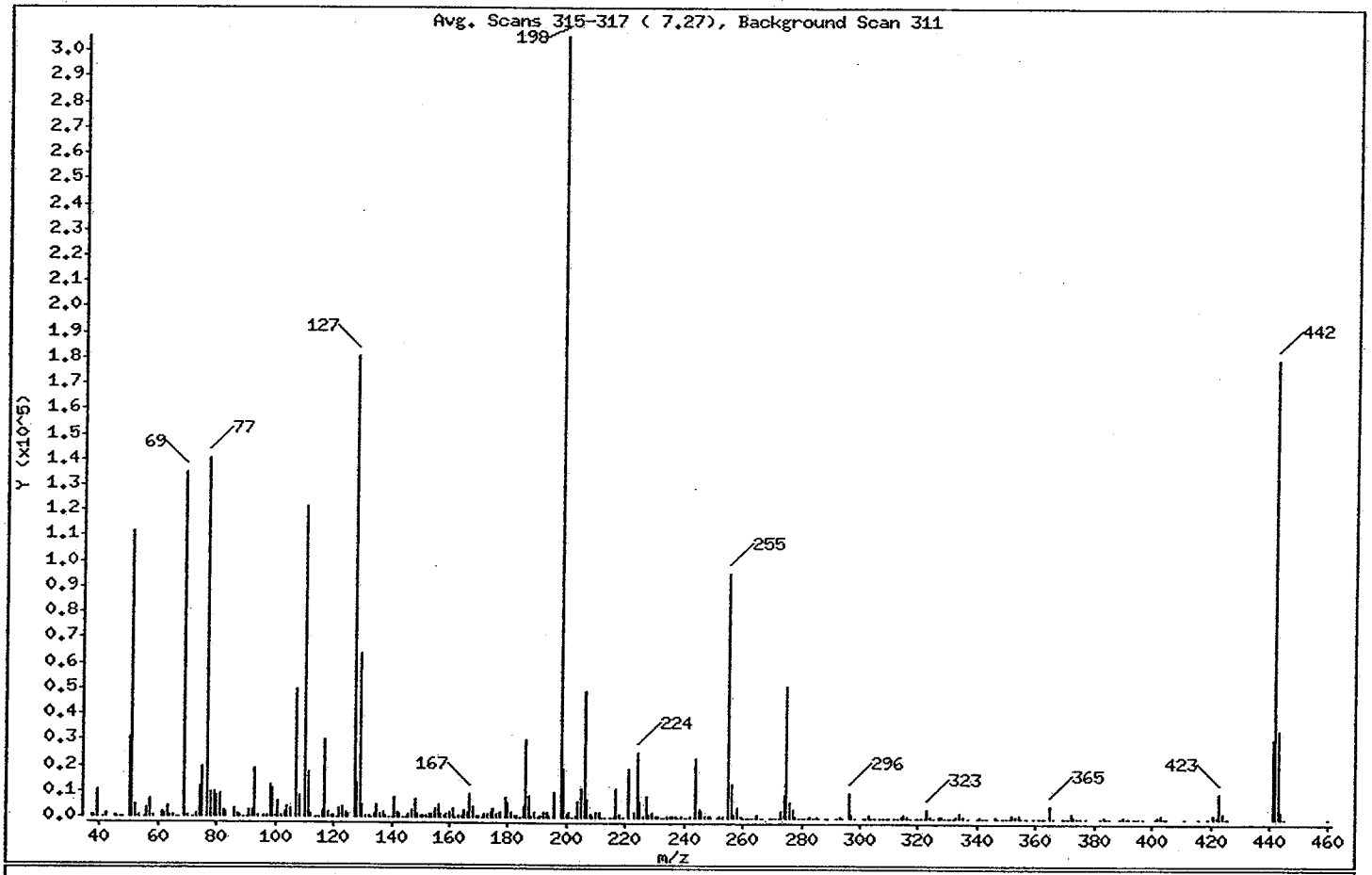
Sample Info: DF0904

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	36.61
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.16
70	Less than 2.00% of mass 69	0.25 (0.57)
127	25.00 - 75.00% of mass 198	59.10
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.11
275	10.00 - 30.00% of mass 198	16.87
365	Greater than 0.75% of mass 198	1.51
441	Present, but less than mass 443	10.19
442	40.00 - 110.00% of mass 198	58.91
443	15.00 - 24.00% of mass 442	11.19 (19.00)

Data File: /chem3/nt1.i/20060904A.b/df0904a.d

Date : 04-SEP-2006 11:15

Client ID:

Instrument: nt1.i

Sample Info: DF0904

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0904a.d

Spectrum: Avg. Scans 315-317 (7.27), Background Scan 311

Location of Maximum: 198.00

Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	799	135.00	4735	221.00	19288	315.00	1060
38.00	877	136.00	1657	223.00	2443	316.00	737
39.00	10693	137.00	2446	224.00	25560	317.00	112
41.00	61	138.00	353	225.00	6434	319.00	73
42.00	1582	139.00	197	226.00	609	320.00	46
45.00	534	140.00	134	227.00	8195	321.00	217
46.00	40	141.00	7488	228.00	1121	322.00	175
47.00	171	142.00	2376	229.00	2096	323.00	3853
48.00	50	143.00	1518	230.00	534	324.00	845
50.00	30816	144.00	325	231.00	917	325.00	121
51.00	111952	145.00	315	232.00	169	327.00	740
52.00	4985	146.00	1333	233.00	168	328.00	468
53.00	420	147.00	2734	234.00	661	329.00	49
55.00	153	148.00	6848	235.00	592	330.00	51
56.00	3658	149.00	1601	236.00	536	331.00	239
57.00	6695	150.00	782	237.00	434	332.00	161
58.00	620	151.00	932	238.00	72	333.00	405
61.00	1846	152.00	898	239.00	522	334.00	2459
62.00	1701	153.00	1702	240.00	291	335.00	518
63.00	3912	154.00	1424	241.00	343	337.00	57
64.00	890	155.00	3489	242.00	1028	340.00	92
65.00	846	156.00	4950	244.00	23376	341.00	516
66.00	278	157.00	1270	245.00	3686	342.00	85
67.00	264	158.00	744	246.00	2898	343.00	78
69.00	135040	159.00	1150	247.00	457	346.00	554
70.00	773	160.00	2247	248.00	363	347.00	181
72.00	324	161.00	3787	249.00	851	349.00	80
73.00	1441	162.00	331	251.00	311	350.00	70
74.00	11773	163.00	500	252.00	375	351.00	103
75.00	19568	164.00	737	253.00	422	352.00	1206
77.00	140416	165.00	2553	255.00	95512	353.00	770
78.00	9898	166.00	2278	256.00	13295	354.00	1116
79.00	10052	167.00	9347	257.00	1448	355.00	184
80.00	8184	168.00	4361	258.00	4451	357.00	69
81.00	9127	169.00	541	259.00	771	359.00	120

Data File: /chem3/nt1.i/20060904A.b/df0904a.d

Date : 04-SEP-2006 11:15

Client ID:

Instrument: nt1.i

Sample Info: DF0904

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0904a.d

Spectrum: Avg. Scans 315-317 (7.27), Background Scan 311

Location of Maximum: 198.00

Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2558	170.00	981	260.00	64	361.00	56
83.00	2338	171.00	271	261.00	231	362.00	132
86.00	3226	172.00	1078	262.00	57	363.00	99
87.00	1422	173.00	1347	263.00	292	365.00	4629
88.00	483	174.00	2148	264.00	136	366.00	329
89.00	128	175.00	3524	265.00	1605	369.00	42
90.00	45	176.00	1602	266.00	140	370.00	252
91.00	2923	177.00	2141	267.00	11	371.00	174
92.00	2632	179.00	8081	269.00	108	372.00	2375
93.00	18976	180.00	5408	270.00	25	373.00	370
94.00	890	181.00	2238	271.00	165	374.00	58
96.00	967	182.00	792	272.00	49	375.00	151
97.00	809	183.00	424	273.00	3016	377.00	95
98.00	12669	184.00	104	274.00	8844	382.00	36
99.00	10943	185.00	4515	275.00	51584	383.00	737
100.00	911	186.00	30352	276.00	6583	384.00	227
101.00	6163	187.00	8441	277.00	3370	385.00	182
102.00	496	188.00	717	278.00	437	389.00	100
103.00	2257	189.00	2087	279.00	196	390.00	399
104.00	3963	190.00	311	280.00	95	391.00	151
105.00	3732	191.00	709	281.00	142	392.00	202
107.00	49672	192.00	2456	282.00	98	394.00	35
108.00	8234	193.00	2365	283.00	498	395.00	37
110.00	121592	194.00	420	284.00	290	397.00	75
111.00	17328	196.00	9834	285.00	560	401.00	210
112.00	1745	198.00	305728	286.00	72	402.00	997
114.00	174	199.00	18672	288.00	141	403.00	1304
115.00	227	200.00	1128	289.00	148	404.00	335
116.00	2566	201.00	2392	292.00	80	405.00	35
117.00	30320	202.00	218	293.00	911	411.00	37
118.00	1900	203.00	903	294.00	230	416.00	36
119.00	524	204.00	6644	296.00	9510	419.00	36
120.00	772	205.00	11064	297.00	1215	421.00	1223
121.00	306	206.00	49464	298.00	158	422.00	968
122.00	3572	207.00	7145	301.00	69	423.00	9509

Data File: /chem3/nt1.i/20060904A.b/df0904a.d

Date : 04-SEP-2006 11:15

Client ID:

Instrument: nt1.i

Sample Info: DF0904

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0904a.d

Spectrum: Avg. Scans 315-317 (7.27), Background Scan 311

Location of Maximum: 198.00

Number of points: 322

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	4029	208.00	1108	302.00	37	424.00	1881
124.00	1893	209.00	679	303.00	1081	425.00	200
125.00	1552	210.00	1920	304.00	236	426.00	88
127.00	180672	211.00	2440	305.00	48	441.00	31152
128.00	13145	212.00	287	307.00	113	442.00	180096
129.00	64016	213.00	300	308.00	116	443.00	34216
130.00	4915	215.00	297	309.00	193	444.00	2876
131.00	1022	216.00	172	310.00	199	445.00	215
132.00	986	217.00	11070	312.00	193	460.00	80
133.00	346	218.00	1576	313.00	55		
134.00	1458	219.00	179	314.00	442		

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

Data file: /chem3/nt1.i/20060904A.b/ddt.b/df0904a.d ARI ID: DF0904
Method: /chem3/nt1.i/20060904A.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 04-SEP-2006 11:15 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.776	396641
Benzidine	8.586	3379888
4,4'-DDE	8.852	4079
4,4'-DDD	9.272	59162
4,4'-DDT	9.650	916473

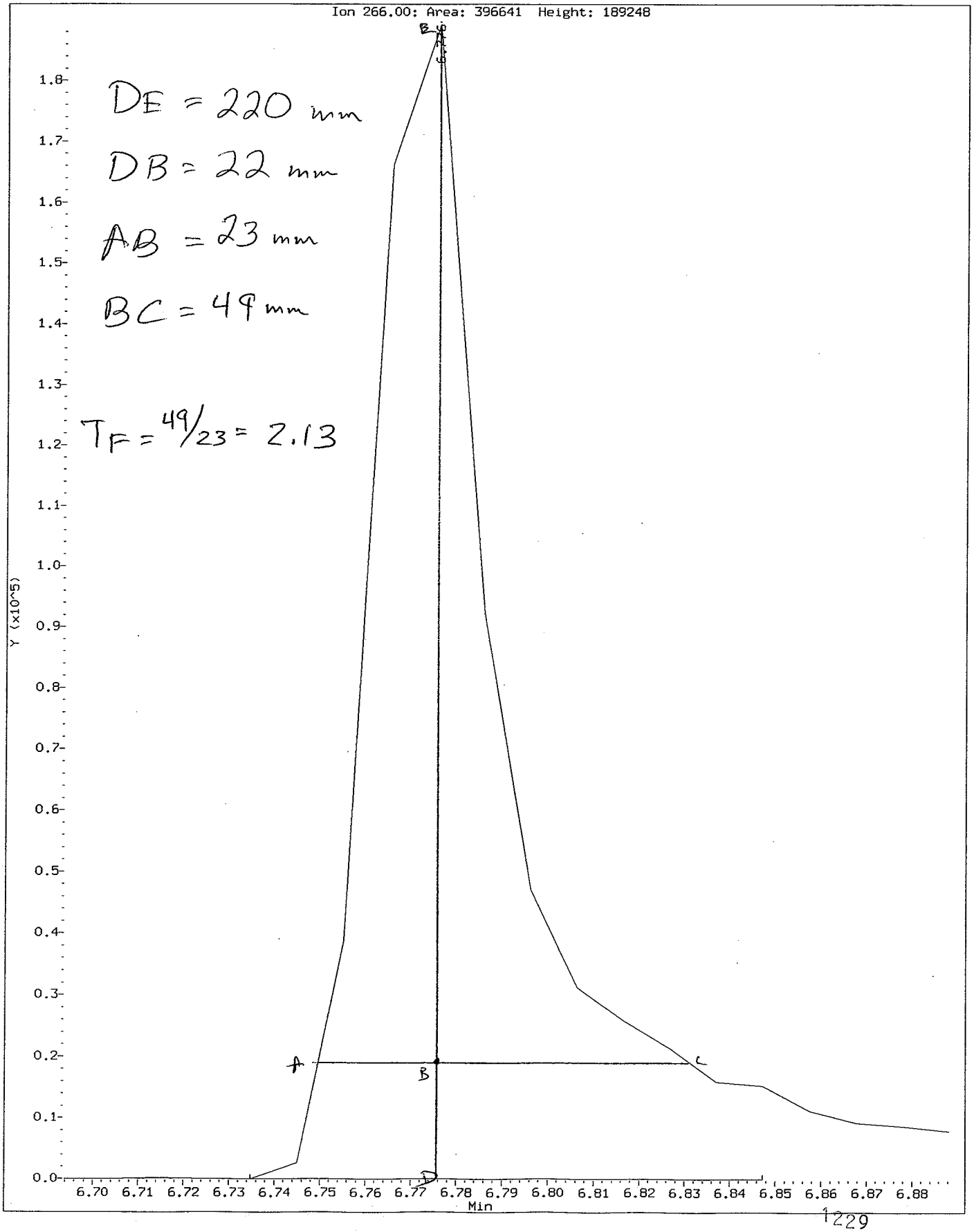
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(4079 + 59162) * 100}{(4079 + 59162 + 916473)}$$

DDT Percent Breakdown = 6.5 %

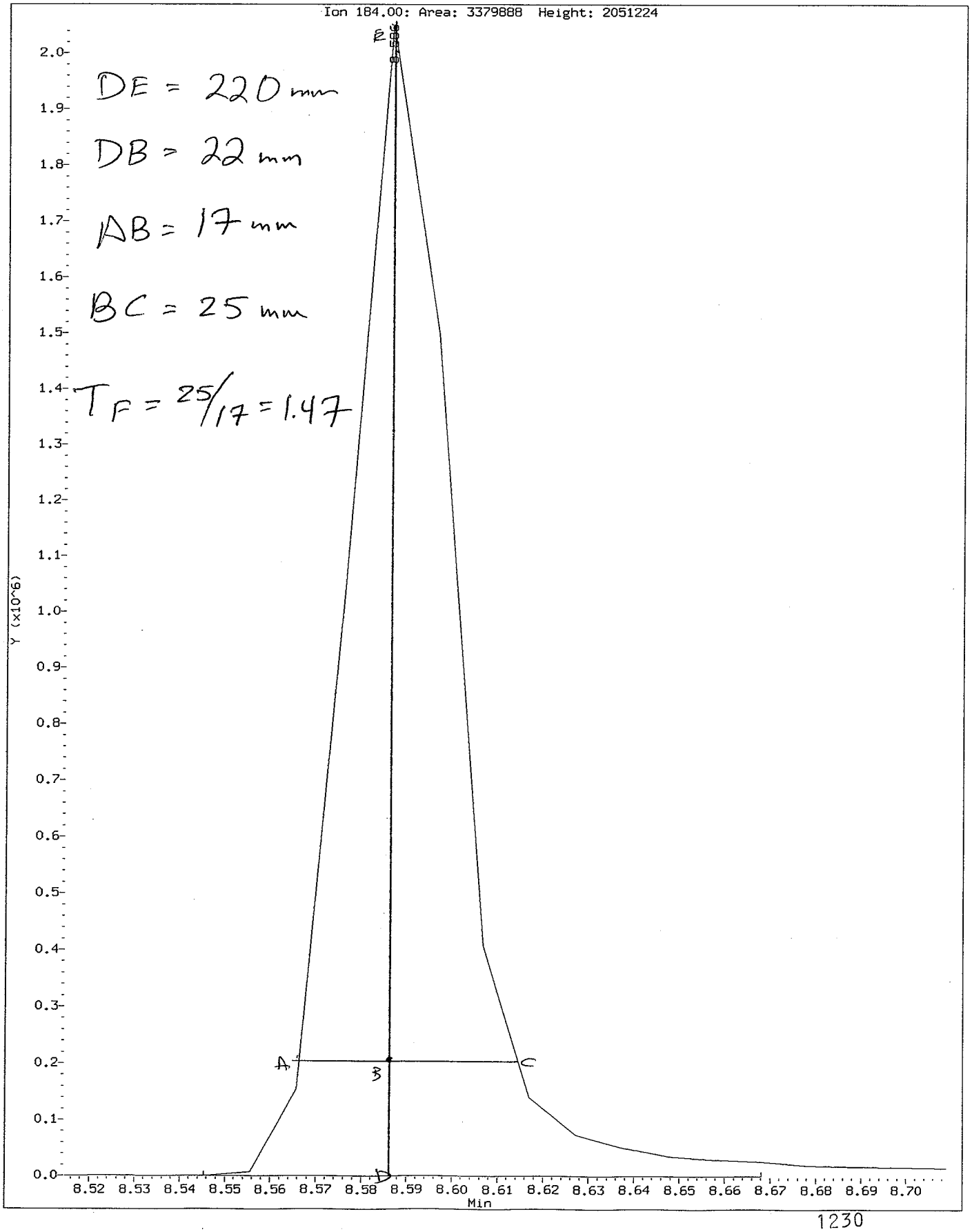
Data File: /chem3/nt1.i/20060904A.b/ddt.b/df0904a.d
Injection Date: 04-SEP-2006 11:15
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20060904A.b/ddt.b/df0904a.d
Injection Date: 04-SEP-2006 11:15
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt1.i/20060912.b/df0912.d

Date : 12-SEP-2006 10:47

Client ID:

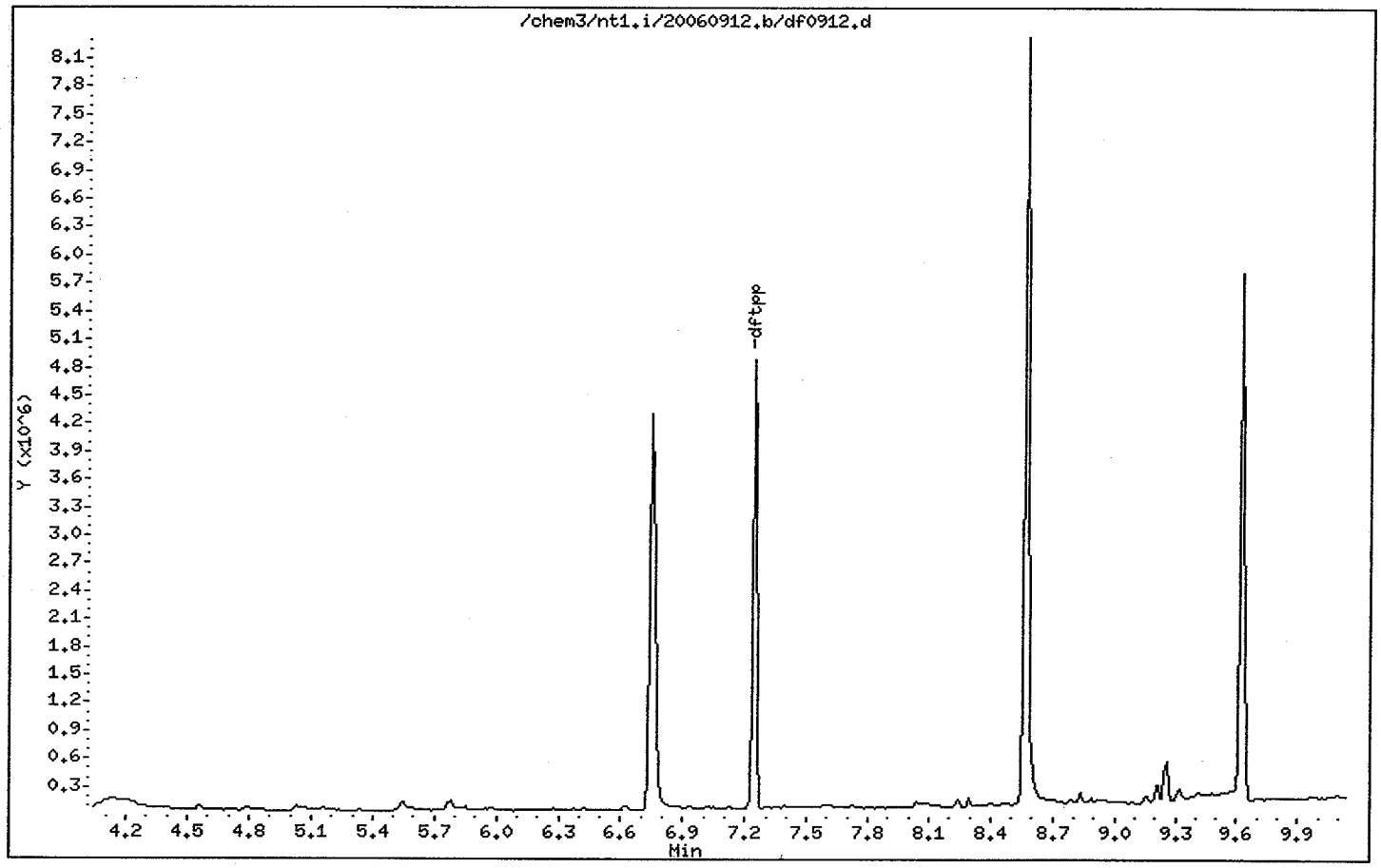
Instrument: nt1.i

Sample Info: DF0912

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060912.b/df0912.d

Date : 12-SEP-2006 10:47

Client ID:

Instrument: nt1.i

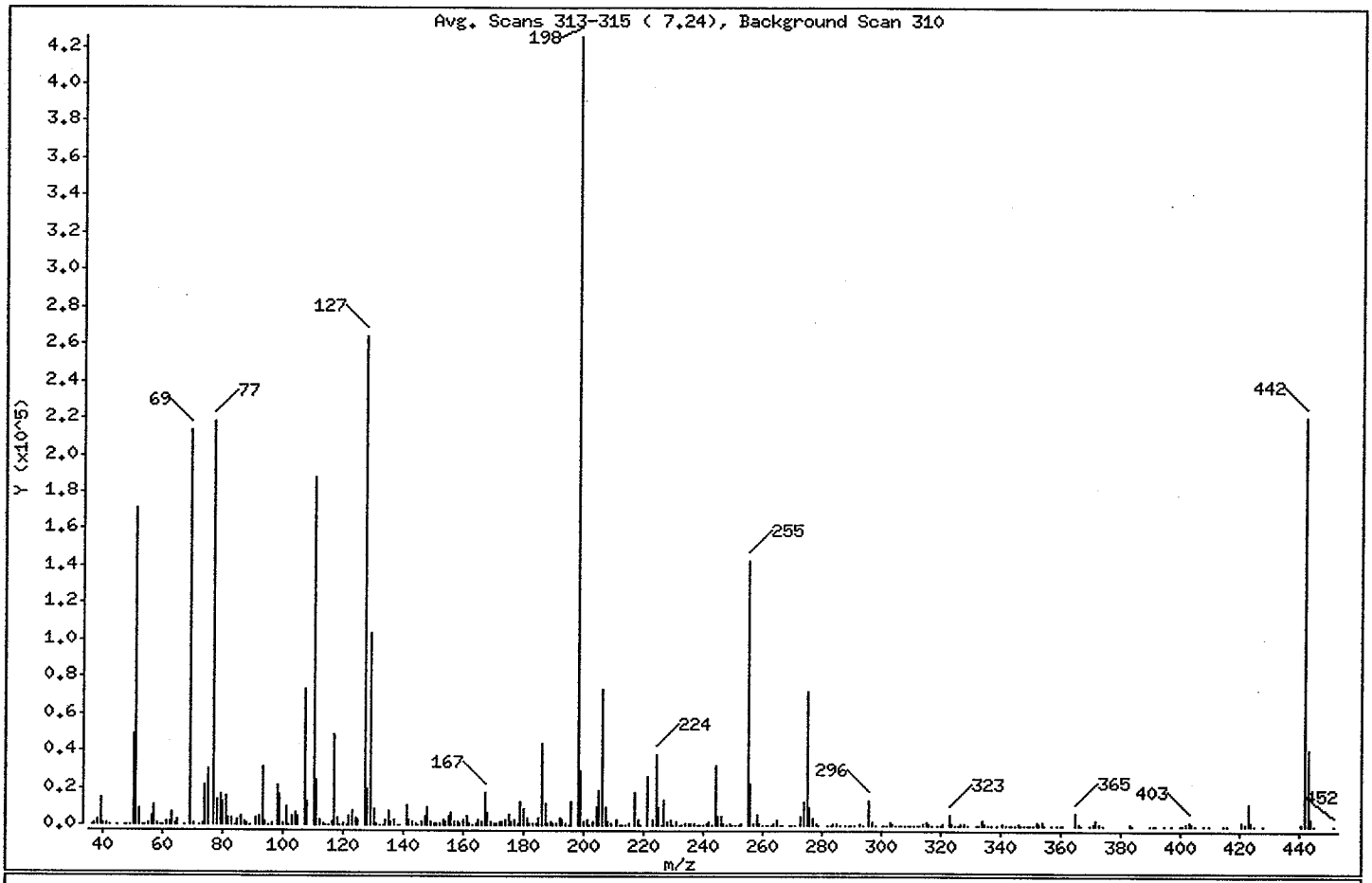
Sample Info: DF0912

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	40.16
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.01
70	Less than 2.00% of mass 69	0.15 (0.30)
127	25.00 - 75.00% of mass 198	62.11
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	16.99
365	Greater than 0.75% of mass 198	1.52
441	Present, but less than mass 443	0.22
442	40.00 - 110.00% of mass 198	51.94
443	15.00 - 24.00% of mass 442	9.71 (18.69)

Data File: /chem3/nt1.i/20060912.b/df0912.d

Date : 12-SEP-2006 10:47

Client ID:

Instrument: nt1.i

Sample Info: DF0912

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0912.d
Spectrum: Avg. Scans 313-315 (7.24), Background Scan 310
Location of Maximum: 198.00
Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	28	130.00	8539	215.00	897	310.00	206
37.00	1129	131.00	1382	217.00	17984	311.00	43
38.00	3331	132.00	370	218.00	2656	312.00	83
39.00	15139	133.00	366	219.00	301	313.00	72
40.00	945	134.00	2642	221.00	26760	314.00	950
41.00	707	135.00	7390	223.00	2628	315.00	1764
42.00	131	136.00	2010	224.00	37936	316.00	859
45.00	88	137.00	3337	225.00	9801	317.00	131
47.00	65	138.00	292	226.00	189	319.00	94
48.00	246	139.00	439	227.00	13586	320.00	158
49.00	126	141.00	10883	228.00	2008	321.00	679
50.00	48712	142.00	3344	229.00	3287	323.00	5733
51.00	170880	143.00	1732	230.00	455	324.00	870
52.00	8844	144.00	707	231.00	1644	325.00	94
53.00	347	145.00	38	232.00	146	326.00	100
54.00	194	146.00	1901	233.00	251	327.00	942
55.00	631	147.00	4486	234.00	924	328.00	603
56.00	5194	148.00	9411	235.00	833	329.00	150
57.00	10737	149.00	1669	236.00	911	332.00	433
58.00	627	150.00	703	237.00	905	333.00	466
59.00	208	151.00	1379	238.00	305	334.00	3298
60.00	27	152.00	934	239.00	417	335.00	973
61.00	2369	153.00	3187	240.00	325	336.00	192
62.00	1930	154.00	2112	241.00	639	337.00	36
63.00	7053	155.00	5260	242.00	1550	339.00	137
64.00	889	156.00	6833	243.00	318	341.00	617
65.00	2767	157.00	2276	244.00	32056	342.00	194
67.00	452	158.00	1717	245.00	4779	343.00	49
69.00	212800	159.00	1057	246.00	4837	344.00	34
70.00	630	160.00	3284	247.00	797	345.00	68
72.00	8	161.00	4454	248.00	365	346.00	1131
73.00	907	162.00	1237	249.00	1017	347.00	121
74.00	21840	163.00	439	250.00	300	348.00	50
75.00	30664	164.00	755	251.00	270	349.00	52
77.00	217984	165.00	2780	252.00	332	350.00	60

Data File: /chem3/nt1.i/20060912.b/df0912.d

Date : 12-SEP-2006 10:47

Client ID:

Instrument: nt1.i

Sample Info: DF0912

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0912.d
Spectrum: Avg. Scans 313-315 (7.24), Background Scan 310
Location of Maximum: 198.00
Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	13985	166.00	2367	253.00	858	351.00	146
79.00	16552	167.00	17544	255.00	143232	352.00	1513
80.00	12373	168.00	7291	256.00	22168	353.00	1163
81.00	16095	169.00	1554	257.00	1466	354.00	1643
82.00	4399	170.00	786	258.00	5991	355.00	245
83.00	4290	171.00	1040	259.00	1188	357.00	46
84.00	325	172.00	1758	260.00	238	359.00	48
85.00	2966	173.00	1955	261.00	206	360.00	89
86.00	5297	174.00	3284	262.00	119	361.00	44
87.00	2365	175.00	5886	263.00	91	365.00	6456
88.00	1091	176.00	2293	264.00	534	366.00	892
89.00	248	177.00	3034	265.00	2781	367.00	75
91.00	4168	178.00	664	266.00	199	370.00	186
92.00	5102	179.00	12645	267.00	169	371.00	657
93.00	31408	180.00	8335	269.00	177	372.00	3169
94.00	2209	181.00	3793	270.00	368	373.00	725
95.00	244	182.00	659	271.00	379	374.00	56
96.00	1057	183.00	557	273.00	4455	383.00	755
98.00	21528	184.00	541	274.00	12391	384.00	255
99.00	16848	185.00	3480	275.00	72288	390.00	423
100.00	1030	186.00	43848	276.00	9319	391.00	326
101.00	10149	187.00	11743	277.00	4319	392.00	233
102.00	384	188.00	1138	278.00	668	395.00	136
103.00	4426	189.00	2298	279.00	166	397.00	79
104.00	6482	190.00	659	282.00	99	400.00	79
105.00	4792	191.00	1046	283.00	434	401.00	248
107.00	73368	192.00	3550	284.00	666	402.00	1246
108.00	12906	193.00	3307	285.00	1011	403.00	1821
110.00	188224	194.00	865	286.00	196	404.00	648
111.00	24840	195.00	17	288.00	47	405.00	114
112.00	3193	196.00	13132	289.00	121	408.00	82
113.00	787	198.00	425472	290.00	137	410.00	35
114.00	104	199.00	28944	291.00	52	415.00	115
115.00	451	200.00	2049	293.00	1268	416.00	66
116.00	2102	201.00	2612	294.00	280	421.00	1698

Data File: /chem3/nt1.i/20060912.b/df0912.d

Date : 12-SEP-2006 10:47

Client ID:

Instrument: nt1.i

Sample Info: DF0912

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0912.d
Spectrum: Avg. Scans 313-315 (7.24), Background Scan 310
Location of Maximum: 198.00
Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	48800	202.00	330	296.00	13515	422.00	1185
118.00	3578	203.00	2271	297.00	1855	423.00	11996
119.00	126	204.00	9346	298.00	85	424.00	2384
120.00	994	205.00	18552	301.00	276	425.00	154
121.00	349	206.00	73552	302.00	237	428.00	40
122.00	5219	207.00	9425	303.00	1715	441.00	940
123.00	7368	208.00	1927	304.00	578	442.00	220992
124.00	3517	209.00	718	305.00	39	443.00	41312
125.00	2612	211.00	3419	306.00	84	444.00	4040
127.00	264256	212.00	34	307.00	81	445.00	92
128.00	19880	213.00	196	308.00	179	452.00	61
129.00	103536	214.00	149	309.00	197		

Data File: /chem3/nt1.i/20060913.b/df0913.d

Date : 13-SEP-2006 10:03

Client ID:

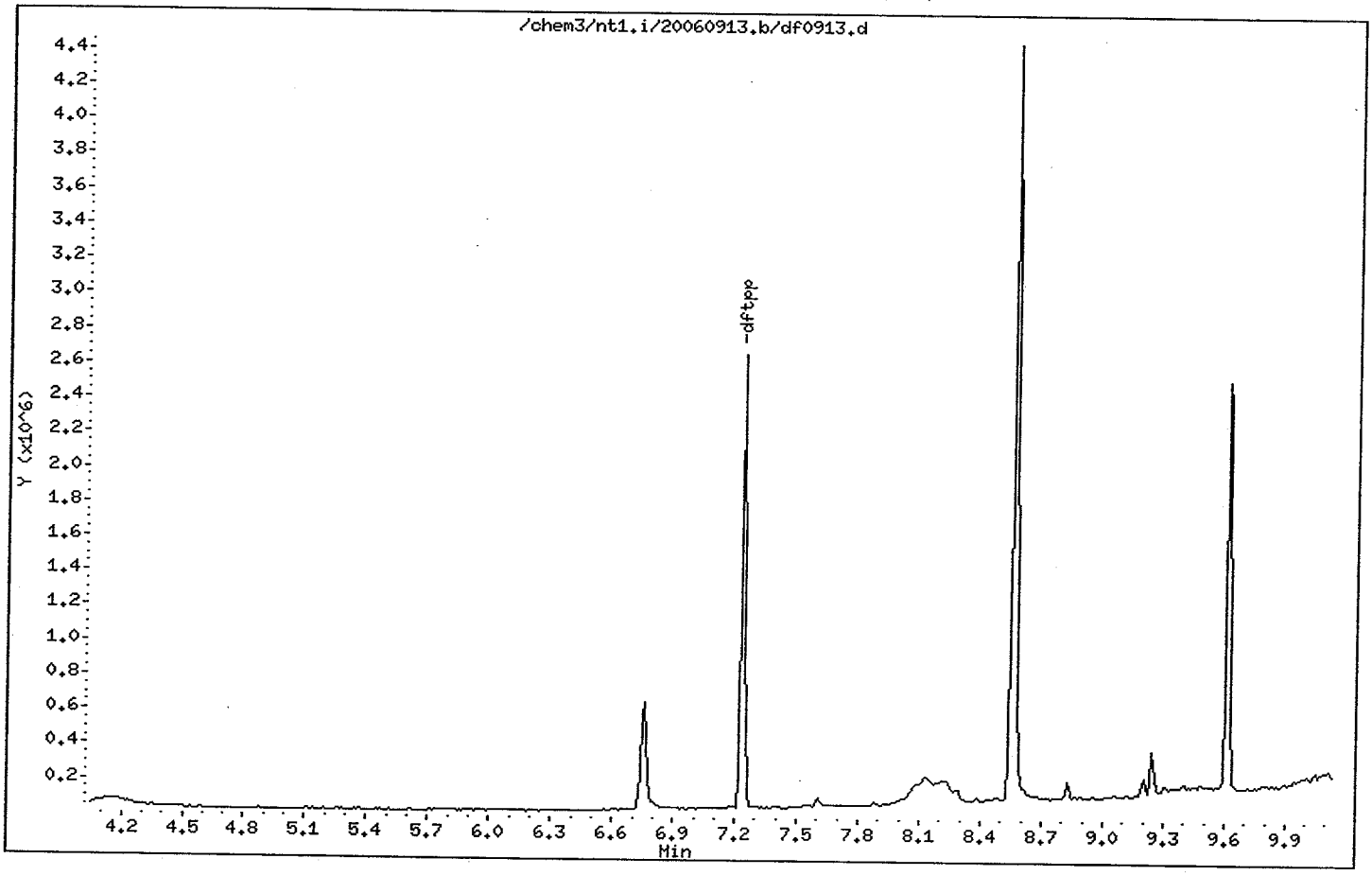
Instrument: nt1.i

Sample Info: DF0913

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060913.b/df0913.d

Date : 13-SEP-2006 10:03

Client ID:

Instrument: nt1.i

Sample Info: DF0913

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

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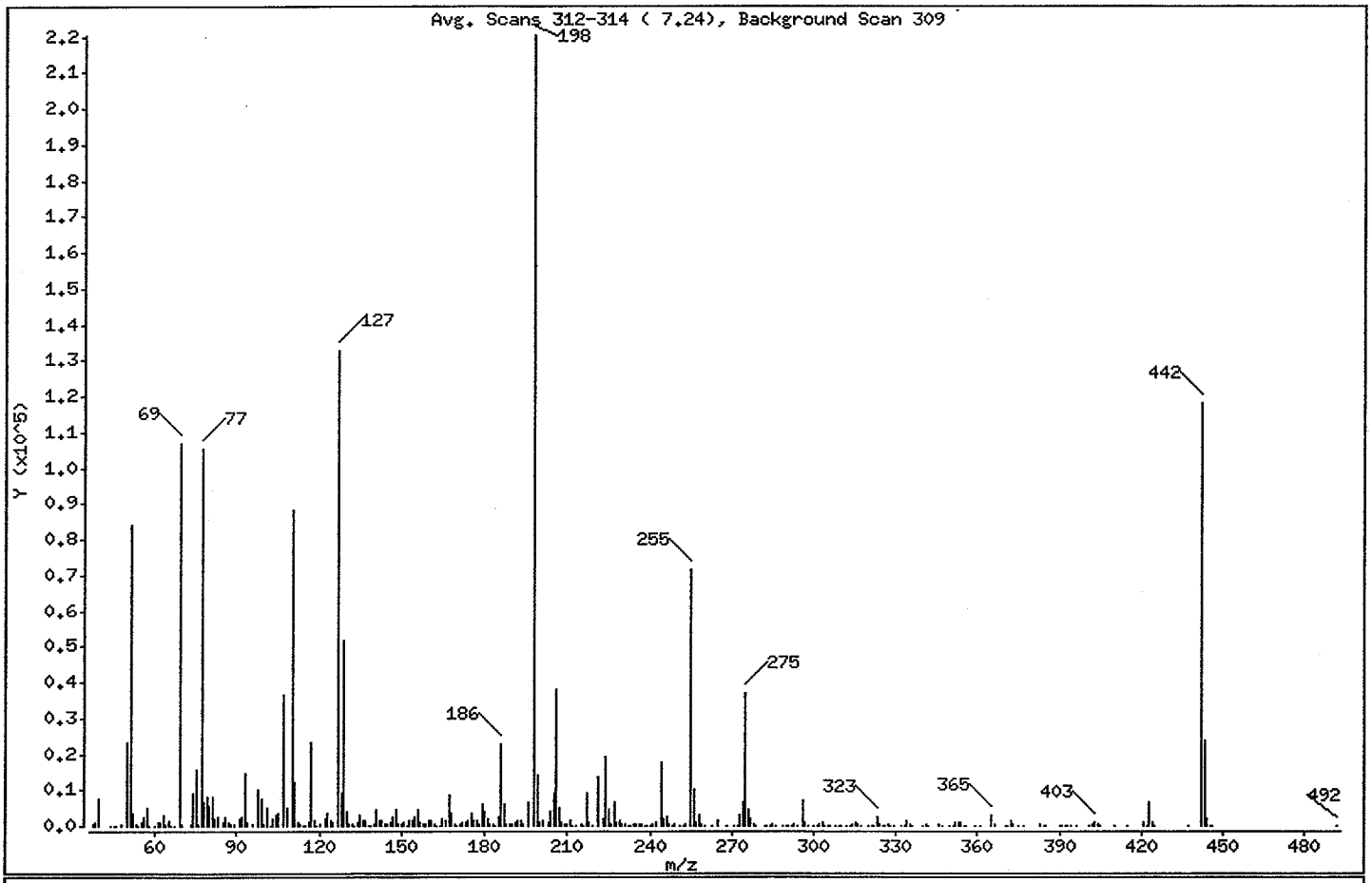


m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	39.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.56
70	Less than 2.00% of mass 69	0.21 (0.42)
127	25.00 - 75.00% of mass 198	60.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.43
275	10.00 - 30.00% of mass 198	16.73
365	Greater than 0.75% of mass 198	1.43
441	Present, but less than mass 443	0.58
442	40.00 - 110.00% of mass 198	55.05
443	15.00 - 24.00% of mass 442	11.14 (20.24)

Data File: /chem3/nt1.i/20060913.b/df0913.d

Date : 13-SEP-2006 10:03

Client ID:

Instrument: nt1.i

Sample Info: DF0913

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0913.d
Spectrum: Avg. Scans 312-314 (7.24), Background Scan 309
Location of Maximum: 198.00
Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	648	132.00	369	212.00	146	309.00	46
38.00	1122	133.00	243	213.00	36	310.00	145
39.00	7698	134.00	906	215.00	396	312.00	73
44.00	197	135.00	3194	216.00	191	313.00	149
45.00	77	136.00	1438	217.00	9214	314.00	604
46.00	39	137.00	1412	218.00	921	315.00	834
48.00	284	138.00	178	219.00	247	316.00	508
50.00	23496	139.00	146	221.00	13782	317.00	49
51.00	83904	140.00	464	223.00	1783	320.00	37
52.00	3526	141.00	4742	224.00	19144	321.00	147
53.00	311	142.00	1748	225.00	4399	322.00	149
54.00	5	143.00	1320	226.00	277	323.00	2454
55.00	934	144.00	265	227.00	6482	324.00	548
56.00	2571	145.00	556	228.00	894	325.00	64
57.00	5154	146.00	864	229.00	1345	326.00	86
58.00	154	147.00	2750	230.00	293	327.00	466
60.00	160	148.00	4687	231.00	738	328.00	138
61.00	1168	149.00	732	232.00	97	329.00	44
62.00	1065	150.00	400	233.00	43	332.00	126
63.00	2924	151.00	893	234.00	492	333.00	101
64.00	584	152.00	228	235.00	290	334.00	1662
65.00	1670	153.00	1577	236.00	310	335.00	320
66.00	159	154.00	1417	237.00	666	336.00	34
67.00	208	155.00	2330	238.00	130	340.00	64
69.00	106784	156.00	4343	239.00	247	341.00	294
70.00	317	157.00	980	240.00	234	342.00	224
73.00	625	158.00	672	241.00	482	346.00	525
74.00	9359	159.00	560	242.00	1006	347.00	119
75.00	15459	160.00	1544	244.00	17528	350.00	35
76.00	671	161.00	1619	245.00	2066	351.00	38
77.00	105272	162.00	715	246.00	2505	352.00	895
78.00	6673	163.00	63	247.00	293	353.00	828
79.00	7984	164.00	210	248.00	95	354.00	986
80.00	5466	165.00	2051	249.00	710	355.00	95
81.00	8252	166.00	1421	251.00	165	356.00	60

Data File: /chem3/nt1.i/20060913.b/df0913.d

Date : 13-SEP-2006 10:03

Client ID:

Instrument: nt1.i

Sample Info: DF0913

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0913.d
Spectrum: Avg. Scans 312-314 (7.24), Background Scan 309
Location of Maximum: 198.00
Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2174	167.00	8724	252.00	147	359.00	127
83.00	2449	168.00	3619	253.00	306	361.00	35
85.00	1253	169.00	672	255.00	71536	365.00	3066
86.00	2483	170.00	159	256.00	10303	366.00	462
87.00	978	171.00	322	257.00	881	370.00	215
88.00	518	172.00	845	258.00	3090	371.00	249
89.00	263	173.00	1131	259.00	668	372.00	1566
91.00	2029	174.00	1670	260.00	90	373.00	505
92.00	2351	175.00	3569	263.00	112	375.00	42
93.00	14682	176.00	1268	265.00	1425	377.00	34
94.00	1002	177.00	1768	268.00	141	383.00	601
96.00	531	178.00	625	271.00	116	384.00	57
98.00	10082	179.00	6058	272.00	209	385.00	46
99.00	7422	180.00	4092	273.00	2843	390.00	188
100.00	688	181.00	1829	274.00	6431	391.00	143
101.00	5076	182.00	449	275.00	37024	392.00	47
102.00	176	183.00	348	276.00	4725	393.00	33
103.00	1785	184.00	75	277.00	2143	394.00	62
104.00	3071	185.00	2508	278.00	433	396.00	41
105.00	3307	186.00	22816	279.00	116	401.00	38
107.00	36296	187.00	5941	282.00	183	402.00	542
108.00	5182	188.00	719	283.00	207	403.00	839
110.00	88336	189.00	723	284.00	180	404.00	439
111.00	12199	190.00	437	285.00	472	405.00	63
112.00	1150	191.00	907	286.00	55	410.00	40
113.00	507	192.00	1350	289.00	205	415.00	36
114.00	133	193.00	1345	290.00	176	421.00	760
115.00	213	194.00	412	291.00	110	422.00	145
116.00	884	196.00	6446	292.00	250	423.00	6382
117.00	23240	198.00	220352	293.00	461	424.00	1173
118.00	1592	199.00	14308	294.00	77	425.00	58
119.00	119	200.00	876	296.00	7009	437.00	41
120.00	499	201.00	1362	297.00	813	442.00	118024
122.00	2121	203.00	1000	298.00	76	443.00	24024
123.00	3630	204.00	4270	300.00	117	444.00	2088

Data File: /chem3/nt1.i/20060913.b/df0913.d

Date : 13-SEP-2006 10:03

Client ID:

Instrument: nt1.i

Sample Info: DF0913

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0913.d

Spectrum: Avg. Scans 312-314 (7.24), Background Scan 309

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	1308	205.00	8989	301.00	117	445.00	96
125.00	971	206.00	37976	302.00	334	446.00	35
127.00	132480	207.00	5291	303.00	1048	492.00	36
128.00	9357	208.00	861	304.00	227		
129.00	51448	209.00	592	305.00	40		
130.00	3934	210.00	496	306.00	63		
131.00	415	211.00	1484	308.00	102		

Data File: /chem3/nt1.i/20060914.b/df0914.d

Date : 14-SEP-2006 08:17

Client ID:

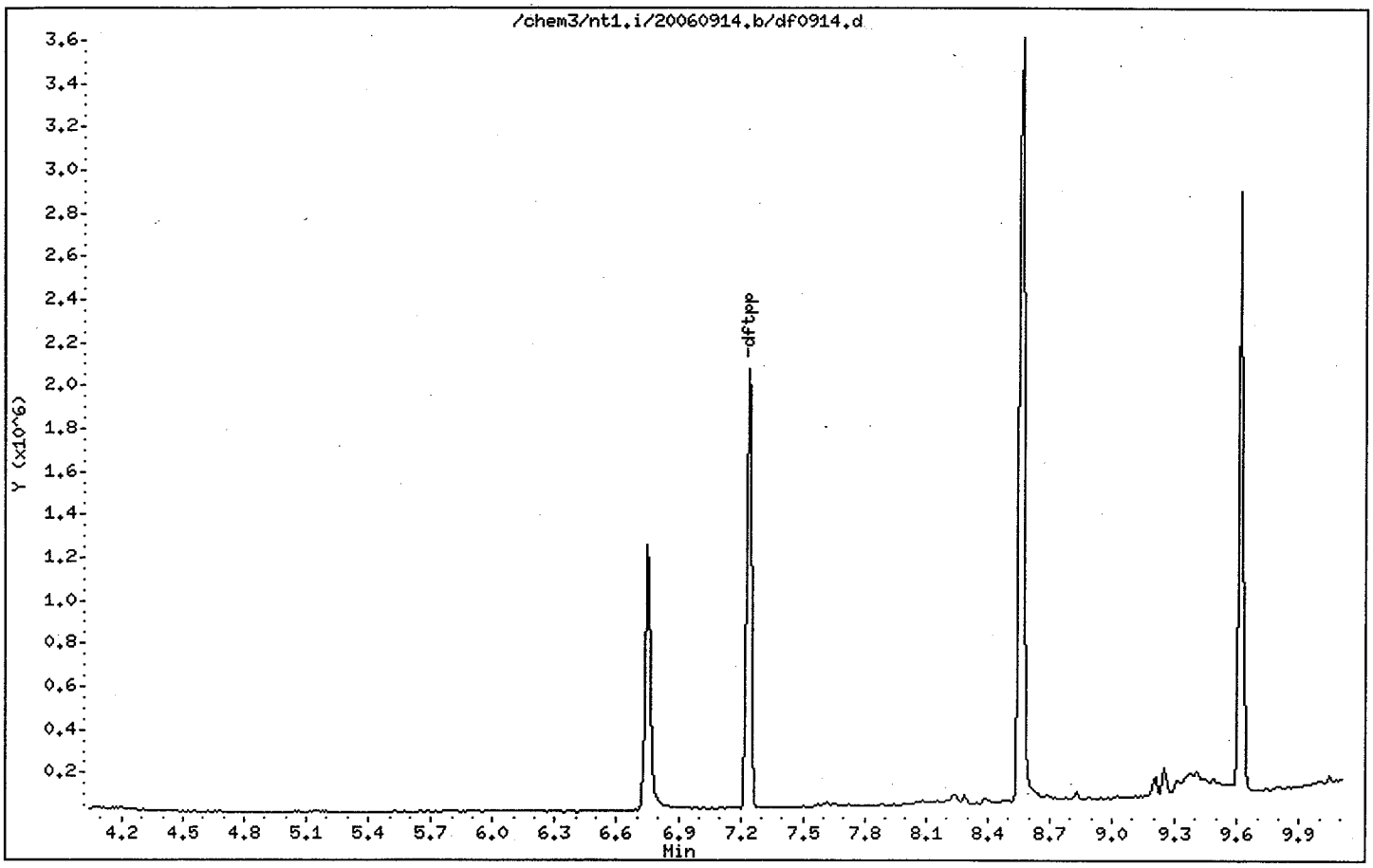
Instrument: nt1.i

Sample Info: DF0914

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25



Data File: /chem3/nt1.i/20060914.b/df0914.d

Date : 14-SEP-2006 08:17

Client ID:

Instrument: nt1.i

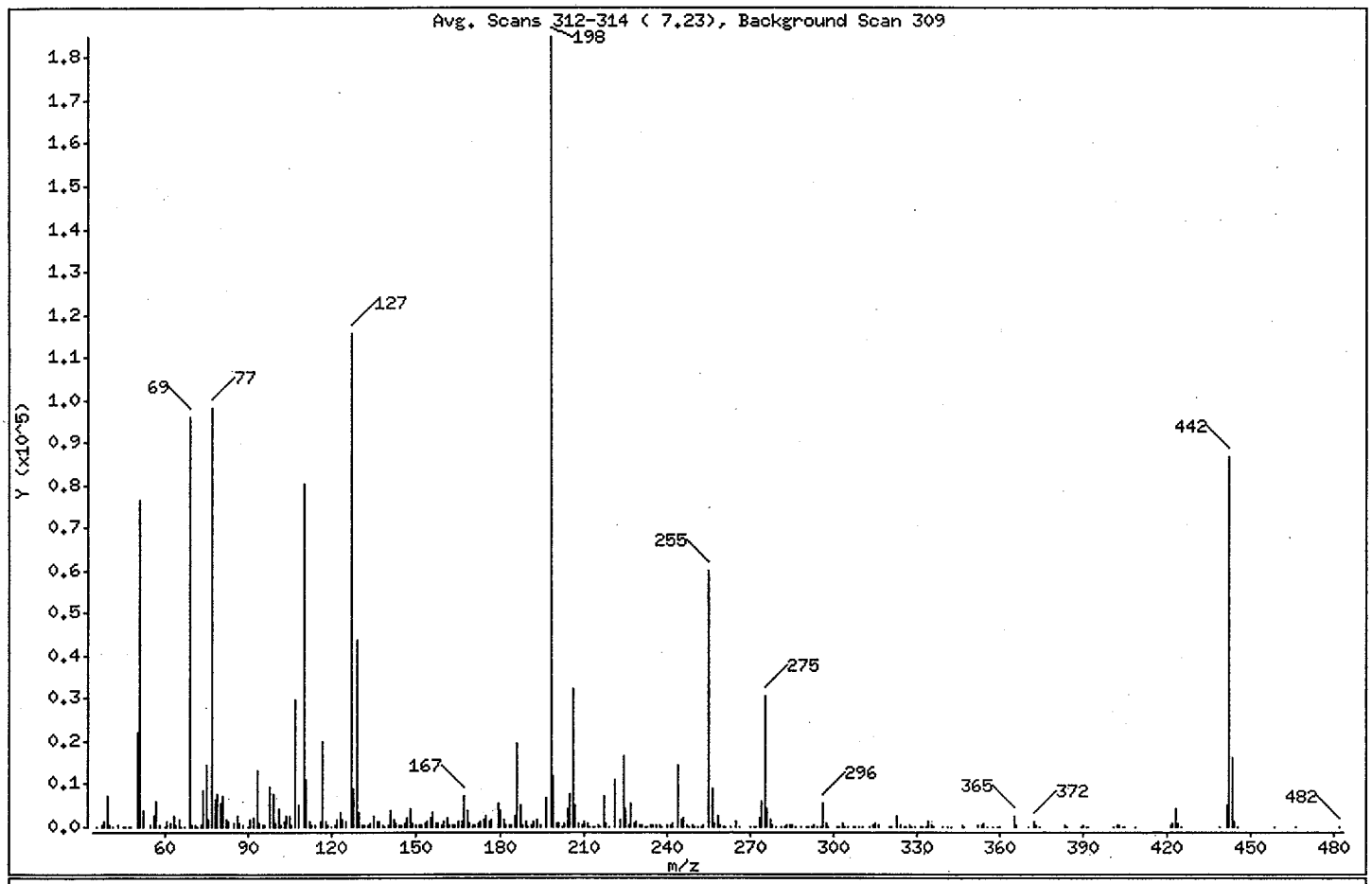
Sample Info: DF0914

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	41.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.94
70	Less than 2.00% of mass 69	0.18 (0.34)
127	25.00 - 75.00% of mass 198	62.55
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 30.00% of mass 198	16.58
365	Greater than 0.75% of mass 198	1.36
441	Present, but less than mass 443	2.85
442	40.00 - 110.00% of mass 198	46.91
443	15.00 - 24.00% of mass 442	8.79 (18.74)

Data File: /chem3/nt1.i/20060914.b/df0914.d

Date : 14-SEP-2006 08:17

Client ID:

Instrument: nt1.i

Sample Info: DF0914

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0914.d
Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309
Location of Maximum: 198.00
Number of points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	117	125.00	1115	206.00	32216	296.00	5565
37.00	603	127.00	115632	207.00	4960	297.00	809
38.00	1215	128.00	8728	208.00	918	298.00	94
39.00	7084	129.00	43792	209.00	301	301.00	138
40.00	396	130.00	3385	210.00	1189	302.00	35
41.00	157	131.00	300	211.00	838	303.00	639
43.00	451	132.00	314	212.00	194	304.00	199
45.00	172	133.00	231	213.00	112	305.00	80
46.00	91	134.00	798	214.00	46	307.00	116
47.00	109	135.00	2346	215.00	497	308.00	98
48.00	44	136.00	1253	216.00	39	309.00	63
50.00	22272	137.00	1293	217.00	7117	310.00	67
51.00	76344	138.00	340	218.00	919	313.00	46
52.00	3752	139.00	85	219.00	145	314.00	272
55.00	398	140.00	598	221.00	11010	315.00	735
56.00	2408	141.00	4032	223.00	1846	316.00	404
57.00	5864	142.00	1762	224.00	16648	320.00	46
58.00	347	143.00	814	225.00	4098	321.00	204
60.00	98	144.00	344	226.00	256	323.00	2424
61.00	1072	145.00	346	227.00	5511	324.00	564
62.00	875	146.00	857	228.00	802	325.00	34
63.00	2704	147.00	2160	229.00	1142	326.00	109
64.00	529	148.00	4297	230.00	233	327.00	334
65.00	1498	149.00	975	231.00	607	328.00	196
66.00	51	150.00	346	232.00	34	329.00	101
67.00	24	151.00	636	233.00	111	331.00	44
69.00	96016	152.00	244	234.00	359	332.00	159
70.00	329	153.00	976	235.00	390	333.00	45
71.00	236	154.00	1113	236.00	299	334.00	1328
72.00	117	155.00	2000	237.00	473	335.00	380
73.00	227	156.00	3448	238.00	197	336.00	39
74.00	8370	157.00	980	240.00	259	339.00	43
75.00	14579	158.00	864	241.00	505	341.00	183
76.00	1723	159.00	478	242.00	673	342.00	35
77.00	98312	160.00	1076	244.00	14592	346.00	350

Data File: /chem3/nt1.i/20060914.b/df0914.d

Date : 14-SEP-2006 08:17

Client ID:

Instrument: nt1.i

Sample Info: DF0914

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0914.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	6327	161.00	2127	245.00	1752	347.00	69
79.00	7621	162.00	605	246.00	2110	352.00	566
80.00	5707	163.00	306	247.00	332	353.00	595
81.00	7417	164.00	318	248.00	171	354.00	793
82.00	1860	165.00	1114	249.00	330	355.00	153
83.00	1304	166.00	1343	250.00	168	357.00	56
85.00	1020	167.00	7281	251.00	100	359.00	38
86.00	2368	168.00	3698	252.00	158	360.00	36
87.00	864	169.00	717	253.00	234	365.00	2523
88.00	573	170.00	325	255.00	59960	366.00	310
90.00	42	171.00	364	256.00	8844	370.00	83
91.00	1848	172.00	803	257.00	822	372.00	1171
92.00	2076	173.00	1085	258.00	2691	373.00	284
93.00	12969	174.00	1815	259.00	342	374.00	59
94.00	799	175.00	2595	260.00	52	383.00	308
95.00	467	176.00	1330	261.00	109	384.00	145
96.00	405	177.00	1584	263.00	115	389.00	148
98.00	9206	179.00	5329	265.00	1064	390.00	228
99.00	7659	180.00	3715	266.00	198	391.00	195
100.00	890	181.00	1880	270.00	81	392.00	33
101.00	4327	182.00	300	271.00	89	401.00	85
102.00	377	183.00	367	272.00	33	402.00	520
103.00	1291	184.00	410	273.00	2077	403.00	608
104.00	2541	185.00	2374	274.00	5835	404.00	180
105.00	2339	186.00	19752	275.00	30656	405.00	71
106.00	324	187.00	5070	276.00	4263	409.00	40
107.00	29800	188.00	473	277.00	1659	421.00	602
108.00	4890	189.00	1116	278.00	381	422.00	702
110.00	80288	190.00	135	279.00	131	423.00	4154
111.00	10952	191.00	590	281.00	46	424.00	820
112.00	1312	192.00	1482	282.00	97	425.00	49
113.00	421	193.00	1713	283.00	475	439.00	48
114.00	232	194.00	248	284.00	301	441.00	5270
116.00	1238	196.00	6754	285.00	316	442.00	86712
117.00	19928	198.00	184832	286.00	61	443.00	16255

Data File: /chem3/nt1.i/20060914.b/df0914.d

Date : 14-SEP-2006 08:17

Client ID:

Instrument: nt1.i

Sample Info: DF0914

Operator: VTS

Column phase: ZB-5

Column diameter: 0.25

Data File: df0914.d

Spectrum: Avg. Scans 312-314 (7.23), Background Scan 309

Location of Maximum: 198.00

Number of points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	1148	199.00	12058	288.00	48	444.00	1468
119.00	228	200.00	953	290.00	105	445.00	54
120.00	131	201.00	1020	291.00	79	458.00	39
121.00	265	202.00	60	292.00	87	466.00	40
122.00	1835	203.00	1005	293.00	316	482.00	58
123.00	3482	204.00	4331	294.00	54		
124.00	1572	205.00	7737	295.00	54		

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-090606
METHOD BLANK

Lab Sample ID: MB-090606
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 12:03
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
198-55-0	Perylene	5.0	< 5.0 U
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	2,6-Dimethylnaphthalene	5.0	< 5.0 U
832-69-9	1-Methylphenanthrene	5.0	< 5.0 U
192-97-2	Benzo(e)pyrene	5.0	< 5.0 U
2245-38-7	2,3,5-Trimethylnaphthalene	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	78.0%
d14-Dibenzo(a,h)anthracen	88.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43mb.d
Lab Smp Id: JU43MBS1 Client Smp ID: JU43MBS1
Inj Date : 12-SEP-2006 12:03
Operator : VTS Inst ID: nt1.i
Smp Info : JU43MBS1
Misc Info : 06-15854
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.810	6.808	(1.000)	308875	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.566	7.564	(1.111)	179094	2.33832	116.9
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.866	8.871	(1.000)	149083	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.675	10.679	(1.000)	194723	2.00000	
	16 Phenanthrene	178	Compound Not Detected.					
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	Compound Not Detected.					
	22 Benzo(a)anthracene	228	Compound Not Detected.					
*	23 Chrysene-d12	240	13.984	13.989	(1.000)	147155	2.00000	
	24 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(a)pyrene	252	Compound Not Detected.					
*	31 Perylene-d12	264	15.899	15.898	(1.000)	152189	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	32 Dibenz(a,h)anthrancene-d14	292	17.731	17.736	(1.115)	131876	2.64429	132.2
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
	51 1-Methylphenanthrene	192	Compound Not Detected.					
	52 Benzo(e)pyrene	252	Compound Not Detected.					
	53 Perylene	252	Compound Not Detected.					

VTS
9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43mb.d
Lab Smp Id: JU43MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: JU43MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	308875	-9.57
8 Acenaphthene-d10	169375	84688	338750	149083	-11.98
15 Phenanthrene-d10	232185	116092	464370	194723	-16.13
23 Chrysene-d12	179856	89928	359712	147155	-18.18
31 Perylene-d12	175373	87686	350746	152189	-13.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.02
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.05
15 Phenanthrene-d10	10.68	10.18	11.18	10.67	-0.04
23 Chrysene-d12	13.99	13.49	14.49	13.98	-0.03
31 Perylene-d12	15.90	15.40	16.40	15.90	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

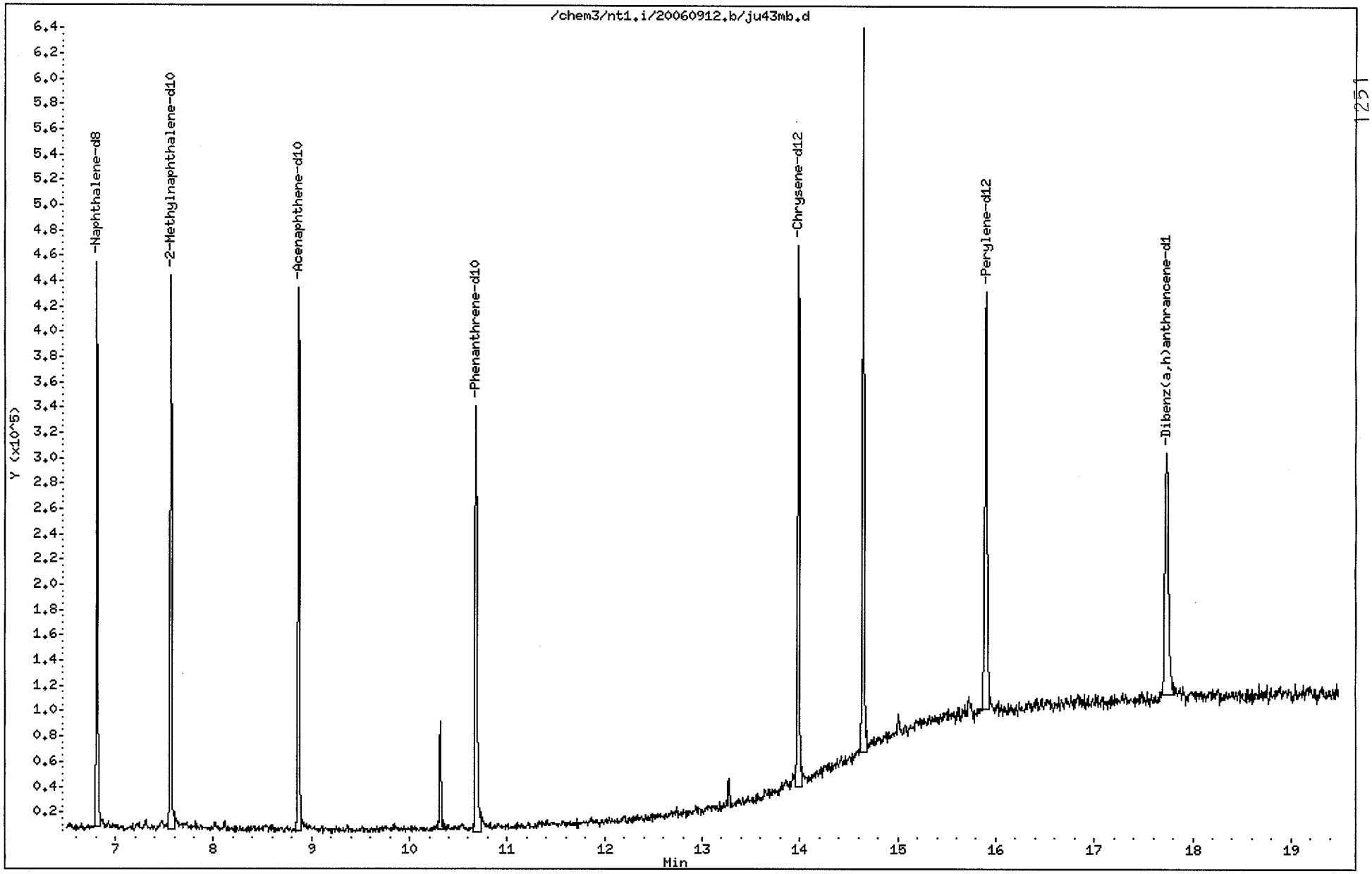
Client Name: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Client SDG: JU43
Fraction: SV
Client Smp ID: JU43MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	116.9	77.94	32-97
$ 32 Dibenz(a,h)anthran	150.0	132.2	88.14	21-105

Data File: /chem3/nt1.i/20060912.b/ju43mb.d
Date : 12-SEP-2006 12:03
Client ID: JU43MBS1
Sample Info: JU43MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: T4-S3-02-K
MATRIX SPIKE

Lab Sample ID: JU43J
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 17:35
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.8%
pH: 6.2

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**5.0**	**8.9**
91-57-6	**2-Methylnaphthalene**	**5.0**	**4.5 J**
90-12-0	**1-Methylnaphthalene**	**5.0**	**2.5 J**
208-96-8	**Acenaphthylene**	**5.0**	**3.0 J**
83-32-9	**Acenaphthene**	**5.0**	**15**
86-73-7	**Fluorene**	**5.0**	**4.0 J**
85-01-8	Phenanthrene	5.0	---
120-12-7	**Anthracene**	**5.0**	**11**
206-44-0	**Fluoranthene**	**5.0**	**75**
129-00-0	**Pyrene**	**5.0**	**97**
56-55-3	**Benzo(a)anthracene**	**5.0**	**36**
218-01-9	Chrysene	5.0	---
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	---
50-32-8	**Benzo(a)pyrene**	**5.0**	**48**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**25**
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**5.4**
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**33**
198-55-0	**Perylene**	**5.0**	**96**
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	**2,6-Dimethylnaphthalene**	**5.0**	**5.4**
832-69-9	1-Methylphenanthrene	5.0	< 5.0 U
192-97-2	**Benzo(e)pyrene**	**5.0**	**32**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**5.0**	**15**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	94.3%
d14-Dibenzo(a,h)anthracen	86.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43jms.d
Lab Smp Id: JU43JMS Client Smp ID: T4-S3-02-K MS
Inj Date : 12-SEP-2006 17:35
Operator : VTS Inst ID: nt1.i
Smp Info : JU43JMS
Misc Info : 06-15854
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	13.60000	Weight of sample extracted (g)
M	25.80000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.812	6.808	(1.000)	352729	2.00000	
	2 Naphthalene	128	6.836	6.832	(1.003)	29906	0.17647	8.744
$	3 2-Methylnaphthalene-d10	152	7.563	7.564	(1.110)	247210	2.82639	140.0
	4 2-Methylnaphthalene	142	7.604	7.600	(1.116)	8230	0.09138	4.527 J
	5 1-Methylnaphthalene	142	7.734	7.730	(1.135)	5348	0.05472	2.711 J
	7 Acenaphthylene	152	8.691	8.687	(0.980)	9139	0.06259	3.101 J
*	8 Acenaphthene-d10	164	8.869	8.871	(1.000)	177734	2.00000	
	9 Acenaphthene	153	8.910	8.906	(1.005)	26093	0.29587	14.66
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.519	9.521	(1.073)	7802	0.08154	4.040 J
*	15 Phenanthrene-d10	188	10.677	10.679	(1.000)	221061	2.00000	
	16 Phenanthrene	178	10.707	10.709	(1.003)	482904	4.02991	199.7(R)
	17 Anthracene	178	10.766	10.762	(1.008)	26536	0.21957	10.88
	19 Fluoranthene	202	12.202	12.198	(1.143)	155119	1.51655	75.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.486	12.488	(0.893)	231695	1.96266	97.25
	22 Benzo(a)anthracene	228	13.969	13.965	(0.999)	72478	0.72073	35.71
*	23 Chrysene-d12	240	13.987	13.989	(1.000)	167734	2.00000	
	24 Chrysene	228	14.022	14.018	(1.003)	395314	4.18327	207.3(R)
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	15.370	15.366	(0.967)	437633	4.27914	212.0(R)
	30 Benzo(a)pyrene	252	15.819	15.821	(0.995)	86369	0.97788	48.45
*	31 Perylene-d12	264	15.902	15.898	(1.000)	172925	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.817	17.813	(1.120)	48210	0.50845	25.19
$	32 Dibenz(a,h)anthrancene-d14	292	17.740	17.736	(1.116)	146815	2.59083	128.4
	34 Dibenz(a,h)anthracene	278	17.793	17.807	(1.119)	8375	0.10898	5.400
	35 Benzo(g,h,i)perylene	276	18.384	18.380	(1.156)	55832	0.66629	33.01
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.337	8.333	(0.940)	9004	0.10815	5.359
	50 2,3,5-Trimethylnaphthalene	170	9.353	9.355	(1.055)	19858	0.30194	14.96
	51 1-Methylphenanthrene	192	11.475	11.477	(0.820)	7327	0.09256	4.586(M)
	52 Benzo(e)pyrene	252	15.742	15.744	(0.990)	63873	0.64915	32.16
	53 Perylene	252	15.943	15.939	(1.003)	177026	1.92811	95.53

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43jms.d
Lab Smp Id: JU43JMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-02-K MS
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	352729	3.27
8 Acenaphthene-d10	169375	84688	338750	177734	4.94
15 Phenanthrene-d10	232185	116092	464370	221061	-4.79
23 Chrysene-d12	179856	89928	359712	167734	-6.74
31 Perylene-d12	175373	87686	350746	172925	-1.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.06
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.02
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.02
23 Chrysene-d12	13.99	13.49	14.49	13.99	-0.01
31 Perylene-d12	15.90	15.40	16.40	15.90	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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43JMS
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

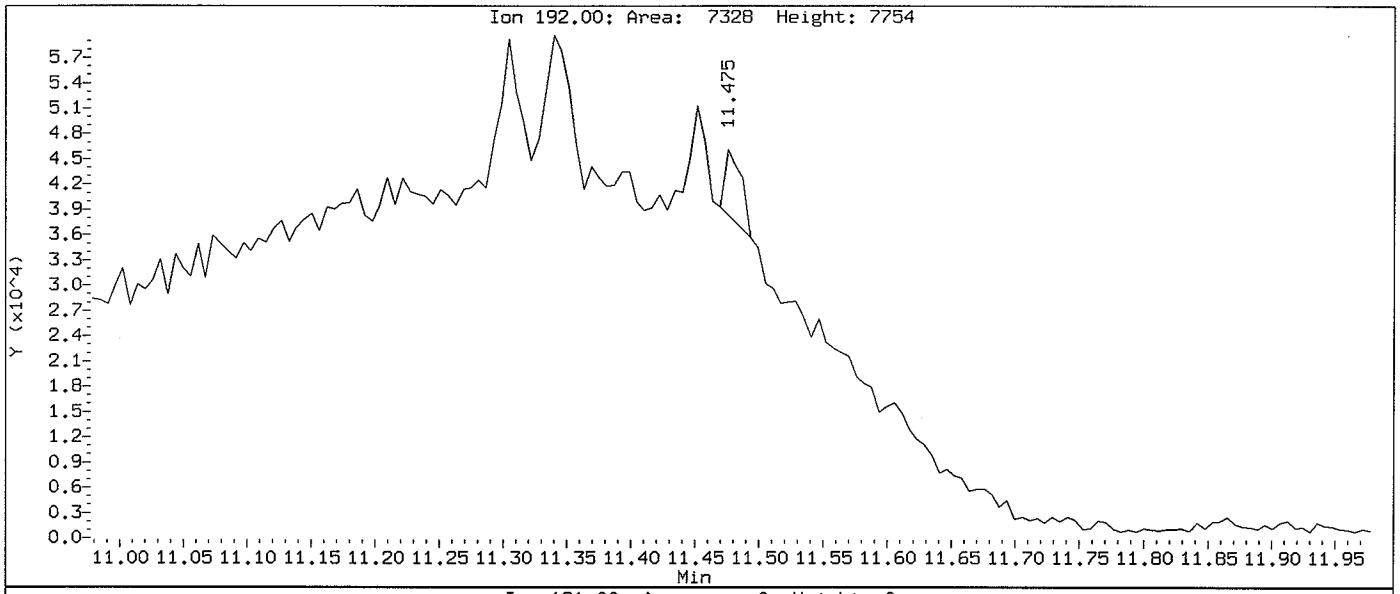
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-02-K MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

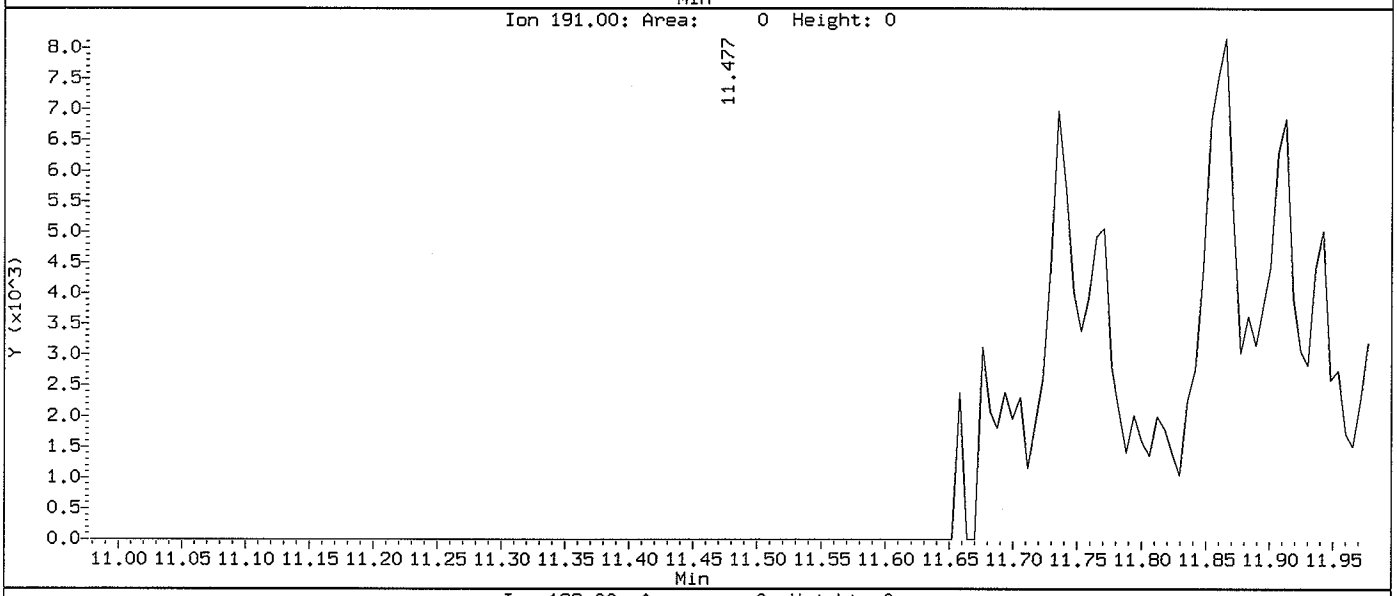
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	148.6	199.7	134.33*	46-107
24 Chrysene	148.6	207.3	139.44*	49-108
29 Benzo(k)fluoranthe	148.6	212.0	142.64*	37-94

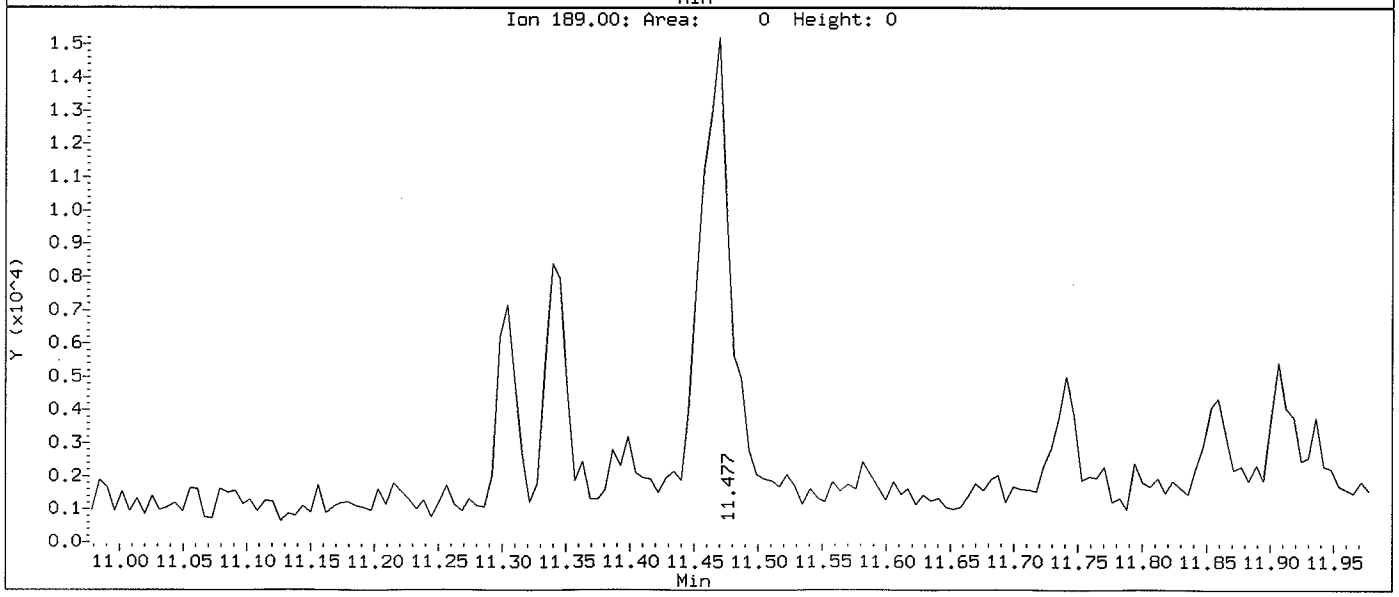
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	148.6	140.0	94.21	32-97
$ 32 Dibenz(a,h)anthran	148.6	128.4	86.36	21-105

Data File: /chem3/nt1.i/20060912.b/ju43jms.d
Injection Date: 12-SEP-2006 17:35
Instrument: nt1.i
Client Sample ID: T4-S3-02-K MS

Compound: 1-Methylphenanthrene
CAS Number:

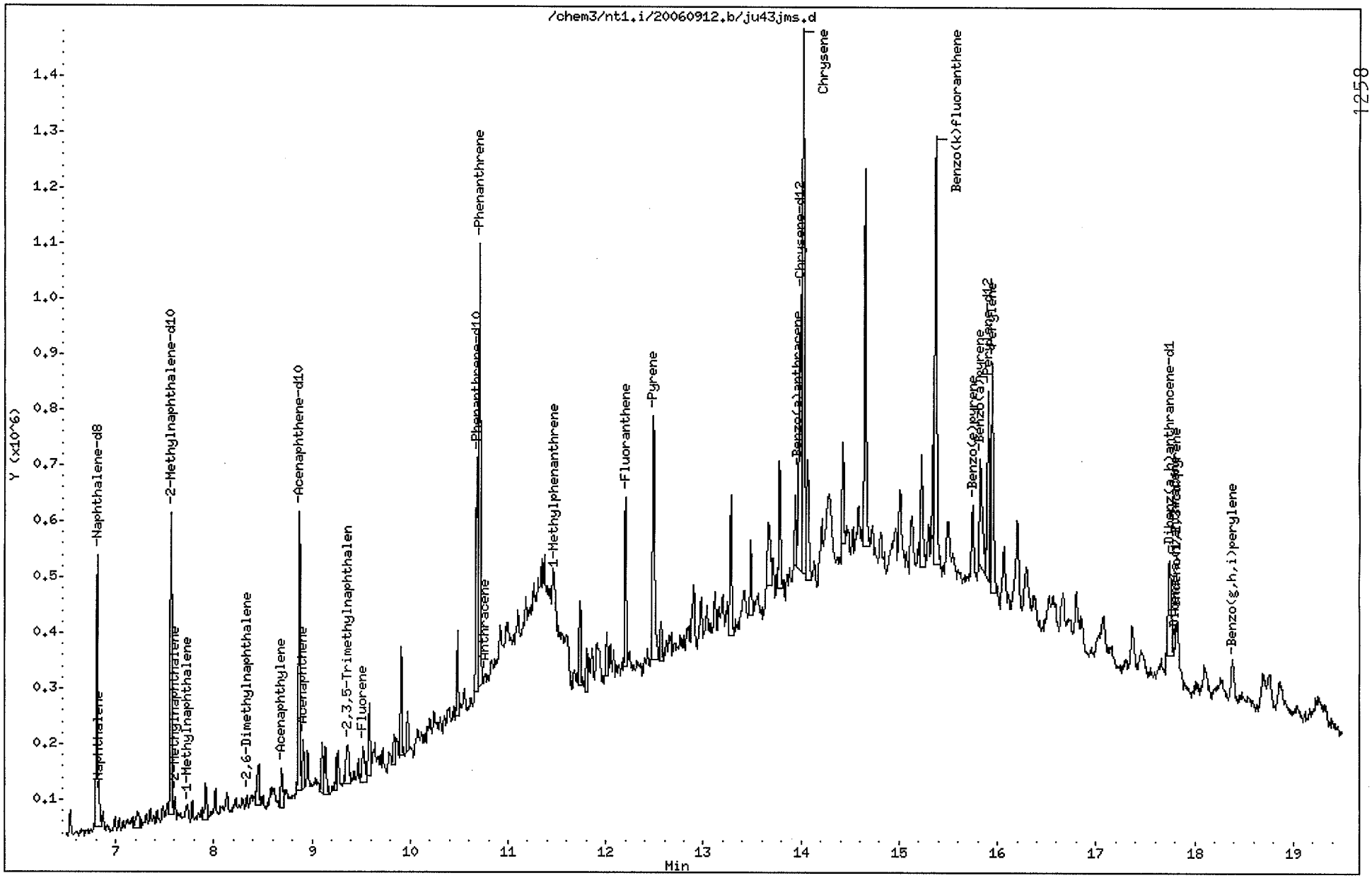






Data File: /chem3/nt1.i/20060912.b/ju43jms.d
Date : 12-SEP-2006 17:35
Client ID: T4-S3-02-K MS
Sample Info: JU43JMS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-02-K**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JU43J
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 17:59
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 25.8%
pH: 6.2

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**5.0**	**12**
91-57-6	**2-Methylnaphthalene**	**5.0**	**6.0**
90-12-0	**1-Methylnaphthalene**	**5.0**	**6.5**
208-96-8	**Acenaphthylene**	**5.0**	**4.0 J**
83-32-9	**Acenaphthene**	**5.0**	**23**
86-73-7	**Fluorene**	**5.0**	**6.0**
85-01-8	Phenanthrene	5.0	---
120-12-7	**Anthracene**	**5.0**	**5.5**
206-44-0	**Fluoranthene**	**5.0**	**170**
129-00-0	**Pyrene**	**5.0**	**190**
56-55-3	**Benzo(a)anthracene**	**5.0**	**46**
218-01-9	Chrysene	5.0	---
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	---
50-32-8	**Benzo(a)pyrene**	**5.0**	**47**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.0**	**21**
53-70-3	**Dibenz(a,h)anthracene**	**5.0**	**4.5 J**
191-24-2	**Benzo(g,h,i)perylene**	**5.0**	**25**
198-55-0	**Perylene**	**5.0**	**82**
92-52-4	Biphenyl	5.0	< 5.0 U
581-42-0	**2,6-Dimethylnaphthalene**	**5.0**	**12**
832-69-9	**1-Methylphenanthrene**	**5.0**	**14 M**
192-97-2	**Benzo(e)pyrene**	**5.0**	**30**
2245-38-7	**2,3,5-Trimethylnaphthalene**	**5.0**	**33**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	91.7%
d14-Dibenzo(a,h)anthracen	89.7%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43jmsd.d
Lab Smp Id: JU43JMSD Client Smp ID: T4-S3-02-K MSD
Inj Date : 12-SEP-2006 17:59
Operator : VTS Inst ID: nt1.i
Smp Info : JU43JMSD
Misc Info : 06-15854
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	13.50000	Weight of sample extracted (g)
M	25.80000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.811	6.808	(1.000)	360577	2.00000		
	2 Naphthalene	128	6.835	6.832	(1.003)	39441	0.22767	11.36	
$	3 2-Methylnaphthalene-d10	152	7.568	7.564	(1.111)	246051	2.75191	137.4	
	4 2-Methylnaphthalene	142	7.603	7.600	(1.116)	11036	0.11986	5.983	
	5 1-Methylnaphthalene	142	7.733	7.730	(1.135)	13169	0.13181	6.579	
	7 Acenaphthylene	152	8.691	8.687	(0.980)	10668	0.07658	3.822	J
*	8 Acenaphthene-d10	164	8.868	8.871	(1.000)	169569	2.00000		
	9 Acenaphthene	153	8.910	8.906	(1.005)	38543	0.45808	22.87	
	10 Dibenzofuran	168	9.099	9.095	(1.026)	7547	~~0.06311~~	3.150	NR
	11 Fluorene	166	9.518	9.521	(1.073)	11277	0.12353	6.166	
*	15 Phenanthrene-d10	188	10.683	10.679	(1.000)	218745	2.00000		
	16 Phenanthrene	178	10.706	10.709	(1.002)	597748	MS 5.04112	251.6	(R)
	17 Anthracene	178	10.765	10.762	(1.008)	13304	0.11125	5.553	(M)
	19 Fluoranthene	202	12.201	12.198	(1.142)	334975	3.30962	165.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.491	12.488	(0.893)	461401	3.82244	190.8
	22 Benzo(a)anthracene	228	13.969	13.965	(0.998)	94475	0.91879	45.86
*	23 Chrysene-d12	240	13.992	13.989	(1.000)	171509	2.00000	
	24 Chrysene	228	14.022	14.018	(1.002)	428918	4.43897	221.6(R)
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	15.369	15.366	(0.966)	443222	4.44514	221.9(R)
	30 Benzo(a)pyrene	252	15.824	15.821	(0.995)	80590	0.93590	46.72
*	31 Perylene-d12	264	15.907	15.898	(1.000)	168593	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.816	17.813	(1.120)	38931	0.42114	21.02
$	32 Dibenz(a,h)anthrancene-d14	292	17.739	17.736	(1.115)	148575	2.68926	134.2
	34 Dibenz(a,h)anthracene	278	17.804	17.807	(1.119)	6909	0.09222	4.603(M)
	35 Benzo(g,h,i)perylene	276	18.389	18.380	(1.156)	41110	0.50320	25.12
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	8.336	8.333	(0.940)	18766	0.23625	11.79
	50 2,3,5-Trimethylnaphthalene	170	9.353	9.355	(1.055)	41271	0.65774	32.83
	51 1-Methylphenanthrene	192	11.480	11.477	(0.820)	21560	0.26633	13.29(M)
	52 Benzo(e)pyrene	252	15.742	15.744	(0.990)	57468	0.59906	29.90
	53 Perylene	252	15.948	15.939	(1.003)	146242	1.63375	81.55

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43jmsd.d
Lab Smp Id: JU43JMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-02-K MSD
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	360577	5.57
8 Acenaphthene-d10	169375	84688	338750	169569	0.11
15 Phenanthrene-d10	232185	116092	464370	218745	-5.79
23 Chrysene-d12	179856	89928	359712	171509	-4.64
31 Perylene-d12	175373	87686	350746	168593	-3.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.05
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.03
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.03
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.03
31 Perylene-d12	15.90	15.40	16.40	15.91	0.06

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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43JMSD
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

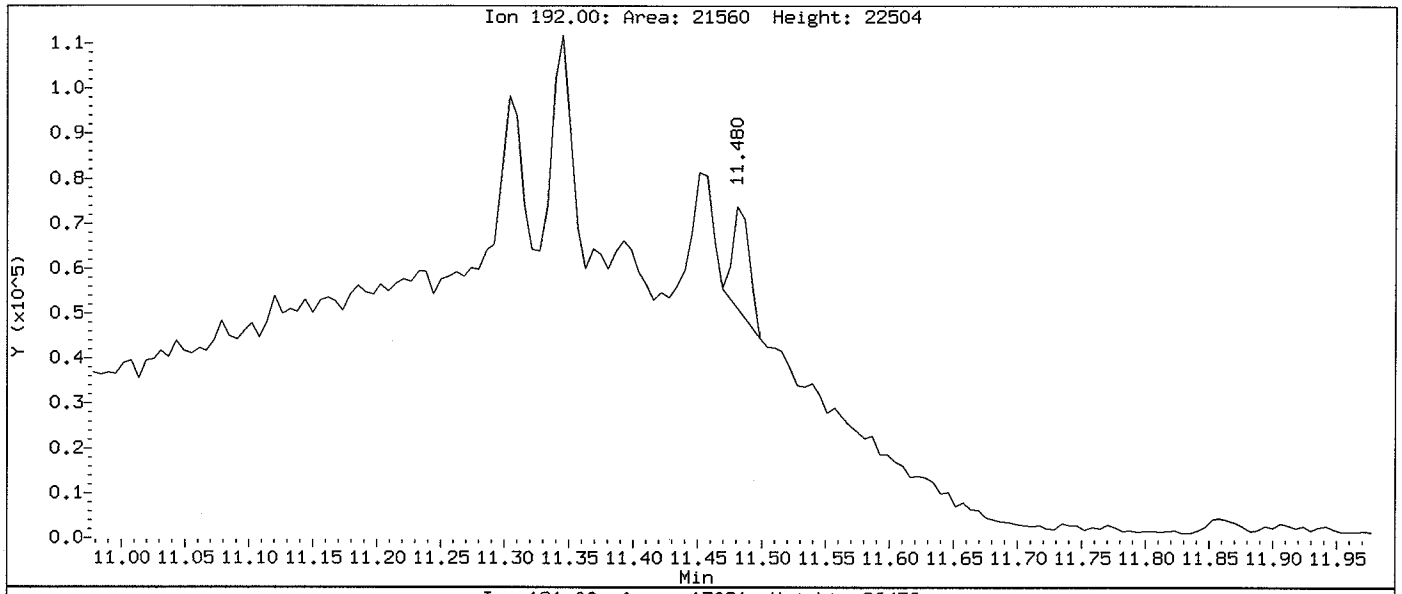
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-02-K MSD
Operator: VTS
SampleType: MSD
Quant Type: ISTD

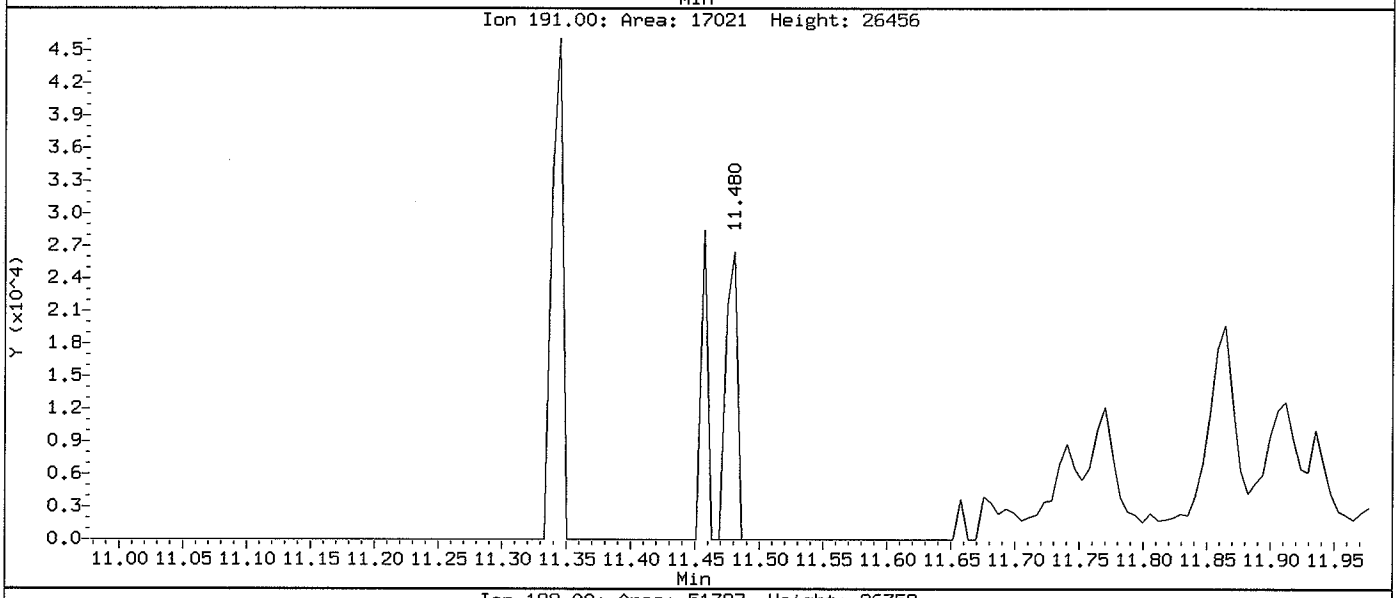
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	149.7	251.6	168.04*	46-107
24 Chrysene	149.7	221.6	147.97*	49-108
29 Benzo(k)fluoranthe	149.7	221.9	148.17*	37-94

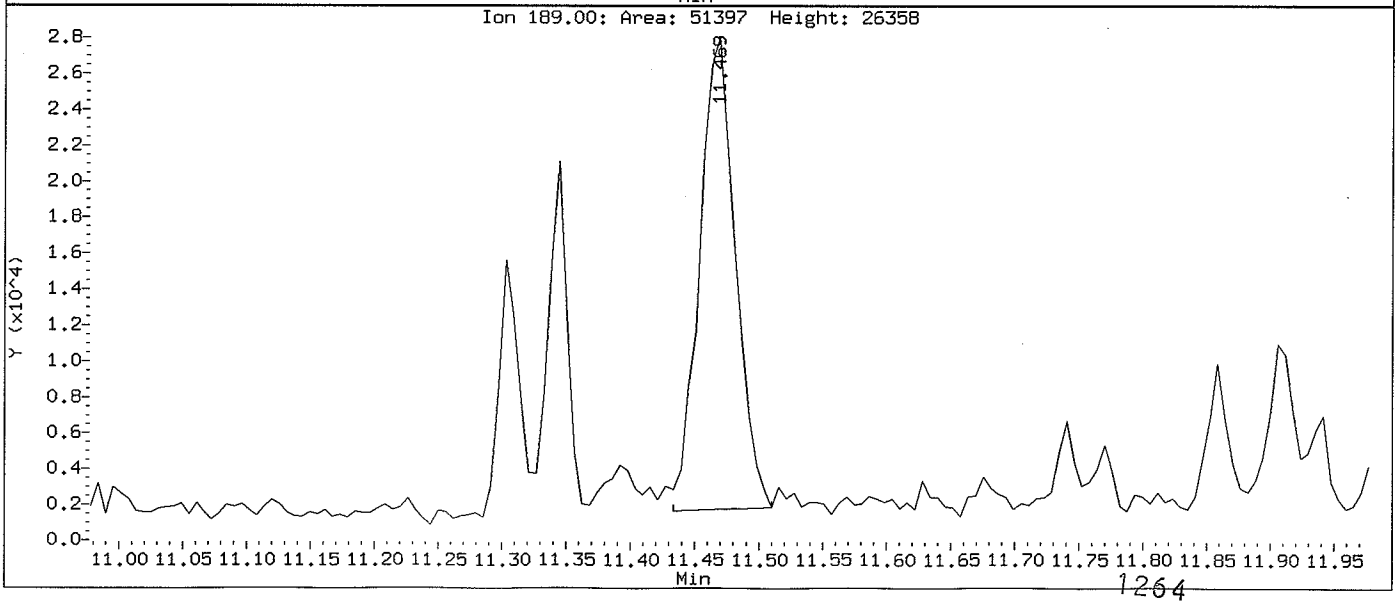
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	149.7	137.4	91.73	32-97
$ 32 Dibenz(a,h)anthran	149.7	134.2	89.64	21-105

Data File: /chem3/nt1.i/20060912.b/ju43jmsd.d
Injection Date: 12-SEP-2006 17:59
Instrument: nt1.i
Client Sample ID: T4-S3-02-K MSD

Compound: 1-Methylphenanthrene
CAS Number:

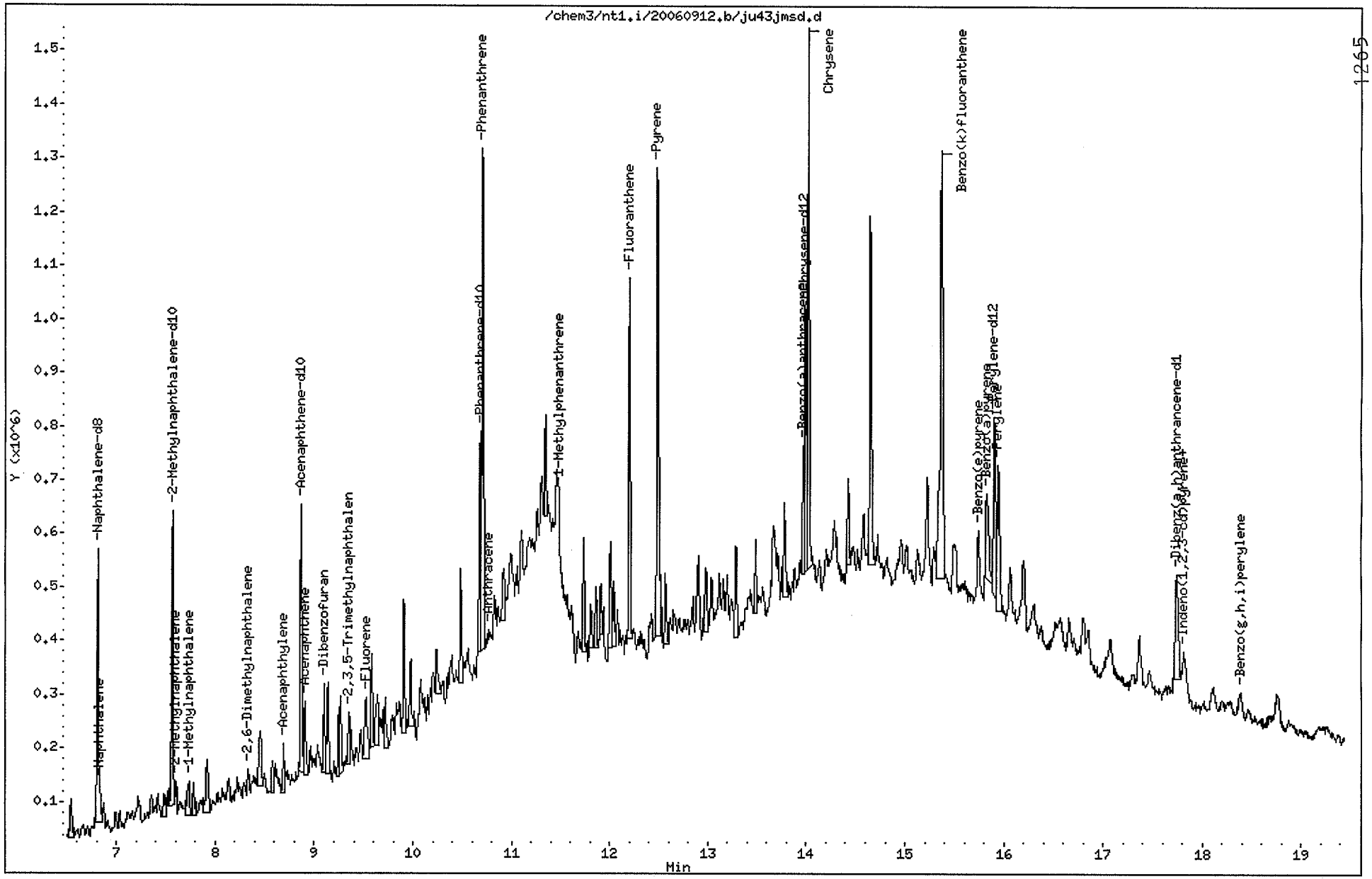






Data File: /chem3/nt1.i/20060912.b/ju43jmsd.d
Date : 12-SEP-2006 17:59
Client ID: T4-S3-02-K MSD
Sample Info: JU43JMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-08-D**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: JU43K
LIMS ID: 06-15855
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 18:49
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.7%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**7.4**
91-57-6	**2-Methylnaphthalene**	**4.9**	**3.9 J**
90-12-0	1-Methylnaphthalene	4.9	< 4.9 U
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**32**
86-73-7	**Fluorene**	**4.9**	**12**
85-01-8	Phenanthrene	4.9	---
120-12-7	**Anthracene**	**4.9**	**30**
206-44-0	**Fluoranthene**	**4.9**	**260**
129-00-0	**Pyrene**	**4.9**	**220**
56-55-3	**Benzo(a)anthracene**	**4.9**	**160**
218-01-9	Chrysene	4.9	---
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**200**
207-08-9	Benzo(k)fluoranthene	4.9	---
50-32-8	**Benzo(a)pyrene**	**4.9**	**230**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**110**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**40**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**120**
198-55-0	**Perylene**	**4.9**	**76**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	**1-Methylphenanthrene**	**4.9**	**6.9 M**
192-97-2	**Benzo(e)pyrene**	**4.9**	**140**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	85.3%
d14-Dibenzo(a,h)anthracen	82.0%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43kms.d
Lab Smp Id: JU43KMS Client Smp ID: T4-S3-08-D MS
Inj Date : 12-SEP-2006 18:49
Operator : VTS Inst ID: nt1.i
Smp Info : JU43KMS
Misc Info : 06-15855
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	13.50000	Weight of sample extracted (g)
M	24.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.813	6.808	(1.000)	348234	2.00000		
	2 Naphthalene	128	6.831	6.832	(1.003)	25566	0.15281	7.516	
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	220637	2.55513	125.7	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	7240	0.08142	4.005	J
	5 1-Methylnaphthalene	142	Compound Not Detected.						
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	161874	2.00000		
	9 Acenaphthene	153	8.905	8.906	(1.004)	52330	0.65151	32.04	J
	10 Dibenzofuran	168	9.095	9.095	(1.025)	11398	~~0.09985~~	~~4.911~~	NR
	11 Fluorene	166	9.520	9.521	(1.073)	21422	0.24582	12.09	
*	15 Phenanthrene-d10	188	10.678	10.679	(1.000)	214128	2.00000		
	16 Phenanthrene	178	10.708	10.709	(1.003)	581705	5.01160	246.5(R)	
	17 Anthracene	178	10.767	10.762	(1.008)	71093	0.60729	29.87	
	19 Fluoranthene	202	12.197	12.198	(1.142)	520255	5.25105	258.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
20 Pyrene	202	12.487	12.488	(0.893)	516439	4.43296	218.0	
22 Benzo(a)anthracene	228	13.964	13.965	(0.998)	324143	3.26624	160.7	
* 23 Chrysene-d12	240	13.988	13.989	(1.000)	165529	2.00000		
24 Chrysene	228	14.018	14.018	(1.002)	629401	6.74914	332.0	(R)
28 Benzo(b)fluoranthene	252	15.342	15.336	(0.965)	384592	4.14667	204.0	
29 Benzo(k)fluoranthene	252	15.371	15.366	(0.967)	652692	6.73819	331.4	(R)
30 Benzo(a)pyrene	252	15.820	15.821	(0.995)	390007	4.66219	229.3	
* 31 Perylene-d12	264	15.903	15.898	(1.000)	163783	2.00000		
33 Indeno(1,2,3-cd)pyrene	276	17.818	17.813	(1.120)	205481	2.28810	112.5	
$ 32 Dibenz(a,h)anthrancene-d14	292	17.741	17.736	(1.116)	132202	2.46318	121.2	
34 Dibenz(a,h)anthracene	278	17.794	17.807	(1.119)	59011	0.81075	39.88	
35 Benzo(g,h,i)perylene	276	18.379	18.380	(1.156)	196493	2.47579	121.8	
48 Biphenyl	154	Compound Not Detected.						
49 2,6-Dimethylnaphthalene	156	Compound Not Detected.						
50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.						
51 1-Methylphenanthrene	192	11.482	11.477	(0.821)	10621	0.13594	6.686	M
52 Benzo(e)pyrene	252	15.743	15.744	(0.990)	265989	2.85416	140.4	
53 Perylene	252	15.944	15.939	(1.003)	136074	1.56480	76.97	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43kms.d
Lab Smp Id: JU43KMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-08-D MS
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	348234	1.96
8 Acenaphthene-d10	169375	84688	338750	161874	-4.43
15 Phenanthrene-d10	232185	116092	464370	214128	-7.78
23 Chrysene-d12	179856	89928	359712	165529	-7.97
31 Perylene-d12	175373	87686	350746	163783	-6.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.01
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43KMS
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

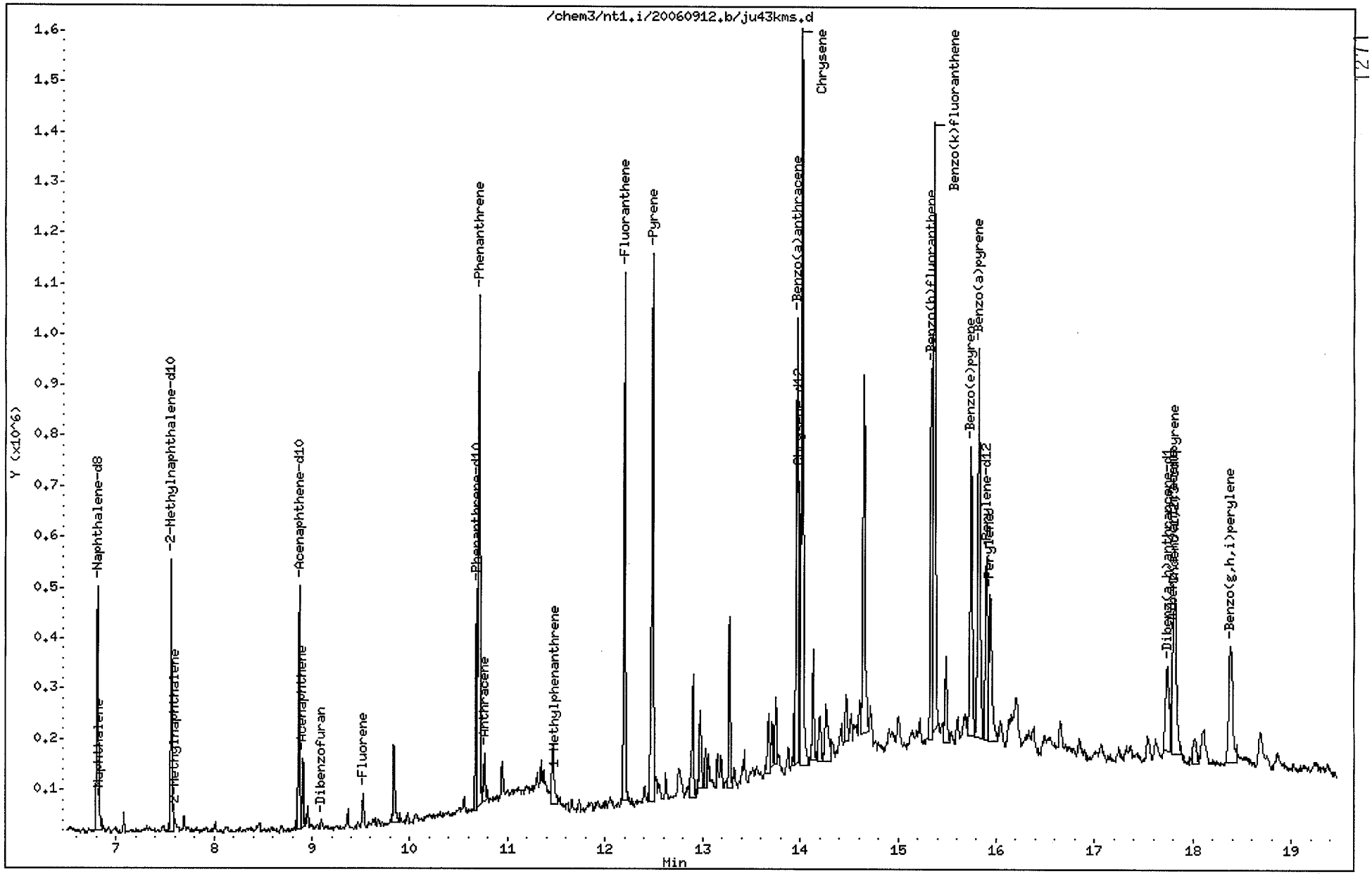
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-08-D MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	147.6	246.5	167.05*	46-107
24 Chrysene	147.6	332.0	224.97*	49-108
29 Benzo(k)fluoranthe	147.6	331.4	224.61*	37-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.6	125.7	85.17	32-97
$ 32 Dibenz(a,h)anthran	147.6	121.2	82.11	21-105

Data File: /chem3/nt1.i/20060912.b/ju43kms.d
Date : 12-SEP-2006 18:49
Client ID: T4-S3-08-D MS
Sample Info: JU43KMS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS **Sample ID: T4-S3-08-D**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: JU43K
LIMS ID: 06-15855
Matrix: Sediment
Data Release Authorized:
Reported: 09/14/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Date Extracted: 09/06/06
Date Analyzed: 09/12/06 19:13
Instrument/Analyst: NT1/VTS
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.7%
pH: 6.3

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.9**	**7.4**
91-57-6	**2-Methylnaphthalene**	**4.9**	**5.4**
90-12-0	**1-Methylnaphthalene**	**4.9**	**3.4 J**
208-96-8	Acenaphthylene	4.9	< 4.9 U
83-32-9	**Acenaphthene**	**4.9**	**36**
86-73-7	**Fluorene**	**4.9**	**16**
85-01-8	Phenanthrene	4.9	---
120-12-7	**Anthracene**	**4.9**	**38**
206-44-0	**Fluoranthene**	**4.9**	**560 E**
129-00-0	**Pyrene**	**4.9**	**480**
56-55-3	**Benzo(a)anthracene**	**4.9**	**330**
218-01-9	Chrysene	4.9	---
205-99-2	**Benzo(b)fluoranthene**	**4.9**	**350**
207-08-9	Benzo(k)fluoranthene	4.9	---
50-32-8	**Benzo(a)pyrene**	**4.9**	**400**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.9**	**190**
53-70-3	**Dibenz(a,h)anthracene**	**4.9**	**64**
191-24-2	**Benzo(g,h,i)perylene**	**4.9**	**180**
198-55-0	**Perylene**	**4.9**	**110**
92-52-4	Biphenyl	4.9	< 4.9 U
581-42-0	2,6-Dimethylnaphthalene	4.9	< 4.9 U
832-69-9	**1-Methylphenanthrene**	**4.9**	**27 M**
192-97-2	**Benzo(e)pyrene**	**4.9**	**250**
2245-38-7	2,3,5-Trimethylnaphthalene	4.9	< 4.9 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.3%
d14-Dibenzo(a,h)anthracen	79.3%

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43kmsd.d
Lab Smp Id: JU43KMSD Client Smp ID: T4-S3-08-D MSD
Inj Date : 12-SEP-2006 19:13
Operator : VTS Inst ID: nt1.i
Smp Info : JU43KMSD
Misc Info : 06-15855
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	13.50000	Weight of sample extracted (g)
M	24.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
*	1 Naphthalene-d8	136	6.808	6.808	(1.000)	323874	2.00000		
	2 Naphthalene	128	6.837	6.832	(1.004)	24096	0.15486	7.617	
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.111)	193486	2.40924	118.5	
	4 2-Methylnaphthalene	142	7.605	7.600	(1.117)	9132	0.11042	5.431	
	5 1-Methylnaphthalene	142	7.729	7.730	(1.135)	5933	0.06611	3.252	J
	7 Acenaphthylene	152	Compound Not Detected.						
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	160651	2.00000		
	9 Acenaphthene	153	8.906	8.906	(1.004)	57850	0.72571	35.69	
	10 Dibenzofuran	168	9.101	9.095	(1.026)	12842	~~0.11336~~	5.575	NR
	11 Fluorene	166	9.520	9.521	(1.073)	28006	0.32382	15.93	
*	15 Phenanthrene-d10	188	10.679	10.679	(1.000)	205292	2.00000		
	16 Phenanthrene	178	10.708	10.709	(1.003)	725728	6.52152	320.8	(R)
	17 Anthracene	178	10.761	10.762	(1.008)	86216	0.76818	37.78	
	19 Fluoranthene	202	12.203	12.198	(1.143)	1094186	11.5192	566.6	E

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	20 Pyrene	202	12.487	12.488	(0.893)	1067672	9.68923	476.6	
	22 Benzo(a)anthracene	228	13.965	13.965	(0.998)	627800	6.68820	329.0	
*	23 Chrysene-d12	240	13.988	13.989	(1.000)	156566	2.00000		
	24 Chrysene	228	14.024	14.018	(1.003)	994281	MS 11.2722	554.4(R)	E
	28 Benzo(b)fluoranthene	252	15.342	15.336	(0.965)	647610	7.22265	355.3	
	29 Benzo(k)fluoranthene	252	15.371	15.366	(0.967)	948883	MS 10.1328	498.4(R)	E
	30 Benzo(a)pyrene	252	15.826	15.821	(0.995)	657537	8.13058	399.9	
*	31 Perylene-d12	264	15.903	15.898	(1.000)	158338	2.00000		
	33 Indeno(1,2,3-cd)pyrene	276	17.818	17.813	(1.120)	336011	3.87026	190.4	
$	32 Dibenz(a,h)anthrancene-d14	292	17.741	17.736	(1.116)	123752	2.38503	117.3	
	34 Dibenz(a,h)anthracene	278	17.800	17.807	(1.119)	91870	1.30561	64.22	
	35 Benzo(g,h,i)perylene	276	18.385	18.380	(1.156)	287923	3.75256	184.6	
	48 Biphenyl	154	Compound Not Detected.						
	49 2,6-Dimethylnaphthalene	156	Compound Not Detected.						
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.						
	51 1-Methylphenanthrene	192	11.482	11.477	(0.821)	40670	0.55035	27.07	M
	52 Benzo(e)pyrene	252	15.744	15.744	(0.990)	455086	5.05116	248.4	
	53 Perylene	252	15.945	15.939	(1.003)	196687	2.33961	115.1	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS

9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43kmsd.d
Lab Smp Id: JU43KMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: T4-S3-08-D MSD
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	323874	-5.18
8 Acenaphthene-d10	169375	84688	338750	160651	-5.15
15 Phenanthrene-d10	232185	116092	464370	205292	-11.58
23 Chrysene-d12	179856	89928	359712	156566	-12.95
31 Perylene-d12	175373	87686	350746	158338	-9.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	-0.01
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	0.00
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	0.00
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43KMSD
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15855

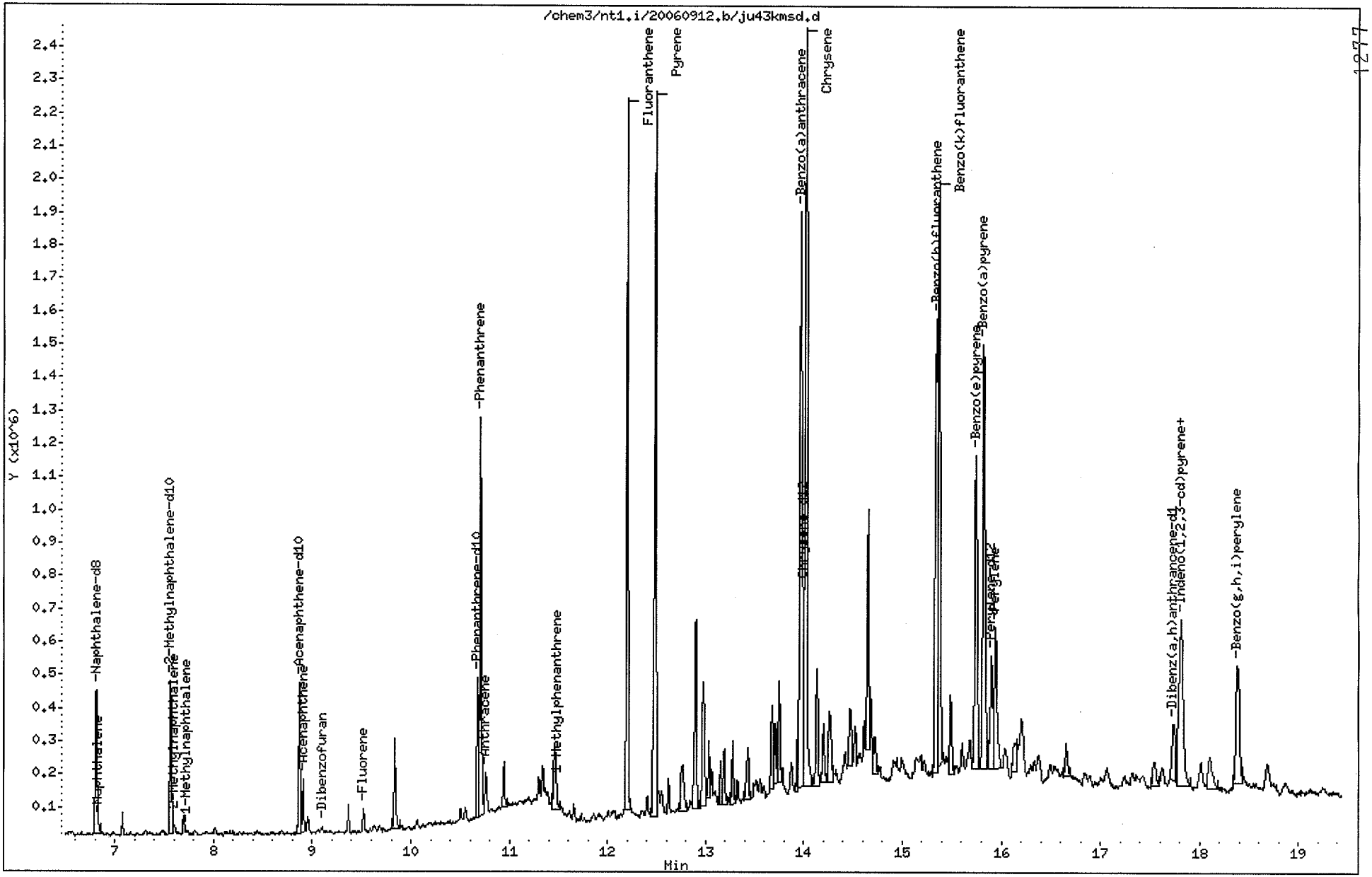
Client SDG: JU43
Fraction: SV
Client Smp ID: T4-S3-08-D MSD
Operator: VTS
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	147.6	320.8	217.38*	46-107
24 Chrysene	147.6	554.4	375.74*	49-108
29 Benzo(k)fluoranthe	147.6	498.4	337.76*	37-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	147.6	118.5	80.31	32-97
$ 32 Dibenz(a,h)anthran	147.6	117.3	79.50	21-105

Data File: /chem3/nt1.i/20060912.b/ju43kmsd.d
Date : 12-SEP-2006 19:13
Client ID: T4-S3-08-D MSD
Sample Info: JU43KMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20060912.b/ju43lcs.d
Lab Smp Id: JU43LCSS1 Client Smp ID: JU43LCSS1
Inj Date : 12-SEP-2006 12:28
Operator : VTS Inst ID: nt1.i
Smp Info : JU43LCSS1
Misc Info : 06-15854
Comment : 1ul Injection
Method : /chem3/nt1.i/20060912.b/simpna.m
Meth Date : 13-Sep-2006 08:18 van Quant Type: ISTD
Cal Date : 04-SEP-2006 13:38 Cal File: ic0904f.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnat4.sub
Target Version: 3.50
Processing Host: cserv3

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	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.813	6.808	(1.000)	299258	2.00000	
	2 Naphthalene	128	6.831	6.832	(1.003)	306318	2.13054	106.5
$	3 2-Methylnaphthalene-d10	152	7.564	7.564	(1.110)	162472	2.18947	109.5
	4 2-Methylnaphthalene	142	7.605	7.600	(1.116)	179912	2.35443	117.7
	5 1-Methylnaphthalene	142	7.735	7.730	(1.135)	173750	2.09535	104.8
	7 Acenaphthylene	152	8.687	8.687	(0.979)	240154	1.99682	99.84
*	8 Acenaphthene-d10	164	8.870	8.871	(1.000)	146390	2.00000	
	9 Acenaphthene	153	8.905	8.906	(1.004)	159478	2.19551	109.8
	10 Dibenzofuran	168	9.094	9.095	(1.025)	221231	2.14303	107.2
	11 Fluorene	166	9.520	9.521	(1.073)	186129	2.36176	118.1
*	15 Phenanthrene-d10	188	10.678	10.679	(1.000)	190003	2.00000	
	16 Phenanthrene	178	10.708	10.709	(1.003)	259725	2.52174	126.1
	17 Anthracene	178	10.761	10.762	(1.008)	238372	2.29478	114.7
	19 Fluoranthene	202	12.197	12.198	(1.142)	239805	2.72773	136.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	12.487	12.488	(0.893)	257438	2.55015	127.5
	22 Benzo(a)anthracene	228	13.964	13.965	(0.998)	220263	2.56137	128.1
*	23 Chrysene-d12	240	13.988	13.989	(1.000)	143435	2.00000	
	24 Chrysene	228	14.018	14.018	(1.002)	229814	2.84392	142.2
	28 Benzo(b)fluoranthene	252	15.336	15.336	(0.965)	238770	2.94834	147.4
	29 Benzo(k)fluoranthene	252	15.365	15.366	(0.967)	228014	2.69585	134.8
	30 Benzo(a)pyrene	252	15.820	15.821	(0.995)	178171	2.43924	122.0
*	31 Perylene-d12	264	15.897	15.898	(1.000)	143011	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.806	17.813	(1.120)	217610	2.77512	138.8
$	32 Dibenz(a,h)anthrancene-d14	292	17.729	17.736	(1.115)	139025	2.96654	148.3
	34 Dibenz(a,h)anthracene	278	17.800	17.807	(1.120)	181757	2.85987	143.0
	35 Benzo(g,h,i)perylene	276	18.373	18.380	(1.156)	196321	2.83292	141.6
	48 Biphenyl	154	Compound Not Detected.					
	49 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
	50 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
	51 1-Methylphenanthrene	192	Compound Not Detected.					
	52 Benzo(e)pyrene	252	Compound Not Detected.					
	53 Perylene	252	Compound Not Detected.					

VJS 9.13.2006

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ju43lcs.d
Lab Smp Id: JU43LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

Calibration Date: 12-SEP-2006
Calibration Time: 11:02
Client Smp ID: JU43LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	341552	170776	683104	299258	-12.38
8 Acenaphthene-d10	169375	84688	338750	146390	-13.57
15 Phenanthrene-d10	232185	116092	464370	190003	-18.17
23 Chrysene-d12	179856	89928	359712	143435	-20.25
31 Perylene-d12	175373	87686	350746	143011	-18.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.81	6.31	7.31	6.81	0.08
8 Acenaphthene-d10	8.87	8.37	9.37	8.87	-0.01
15 Phenanthrene-d10	10.68	10.18	11.18	10.68	-0.01
23 Chrysene-d12	13.99	13.49	14.49	13.99	0.00
31 Perylene-d12	15.90	15.40	16.40	15.90	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: ANCHOR
Sample Matrix: SOLID
Lab Smp Id: JU43LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pnat4.sub
Method File: /chem3/nt1.i/20060912.b/simpna.m
Misc Info: 06-15854

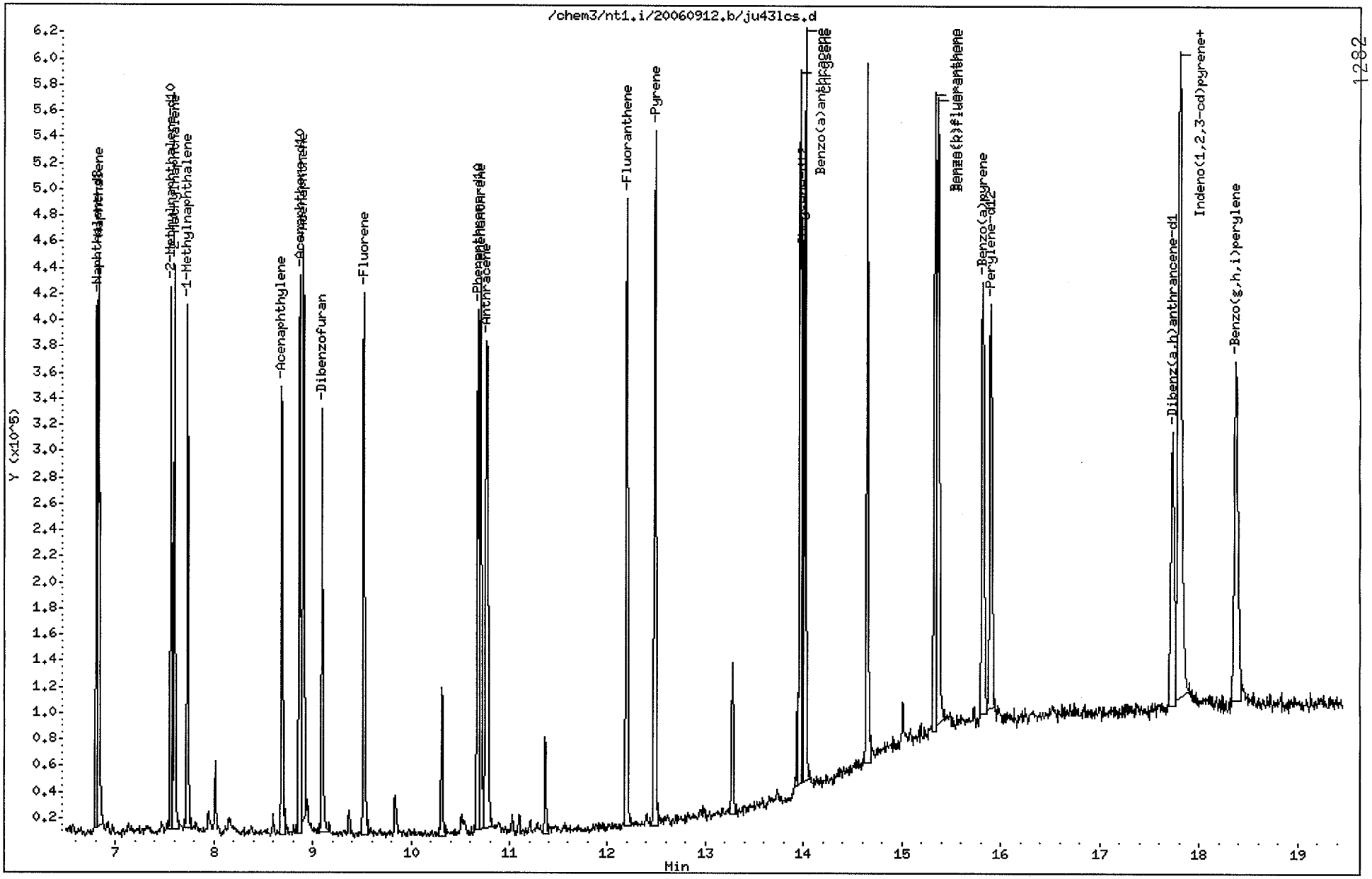
Client SDG: JU43
Fraction: SV
Client Smp ID: JU43LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
16 Phenanthrene	150.0	126.1	84.06	46-107
24 Chrysene	150.0	142.2	94.80	49-108
29 Benzo(k)fluoranthe	150.0	134.8	89.86	37-94

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	109.5	72.98	32-97
$ 32 Dibenz(a,h)anthran	150.0	148.3	98.88	21-105

Data File: /chem3/nt1.i/20060912.b/ju43lcs.d
Date : 12-SEP-2006 12:28
Client ID: JU43LCSS1
Sample Info: JU43LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

QA LIMs # _____
EXT LIMs # _____
Bid # SM0906B-01

(8270)PNA/SIM PNA/(8310)PNA– Soil/Sediment
In House_____ PSDDA_____ Pro-Sep_____ LVI X
(3550B) Microtip_____
(3550B Macrotip X
KD X
Turbovap X

ANALYTICAL RESOURCES INCORPORATED

Client Name: Anchor Environmental

ARI Job No(s): JU43

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted (g)	GPC Aliquot #1 / #2	Alumina Aliquot See pink	Final Effective Volume	Volume To Lab	Time Extracted 2000 Comments
MB: JU43 MBS	9-6-06	10.00			0.5 mL	0.5 mL	
SB: SBS	↓	10.00					
A	verified	2.19					
B		2.12					
C		18.14					
D		18.50					
E		18.30					
F		17.56					
G		20.56					
H		18.58					
I		18.00					
JMJ		13.53					
JMs		13.59					
JMsd		13.53					
K		13.59					
KMS		13.53					
KMsd		13.50					
L		14.01					
M		14.00					
N		13.56					
O		13.50					
P		13.03					
EF 9/ ~~Date~~/Analyst:				TH 9/11			

More on next sheet GAH 9-6 KD: GAH 9-8-06

Surrogate Amount: 50 µL Added By: GAH /Spk. Witness TH
Concentration: 30/150 µg/mL ID: 1408-4

Spike Amount: 50 µL Added By: GAH /Spk. Witness TH
Concentration: ~~50 µ~~ 30/150 µg/mL ID: 1393-3

(DCM) Solvent Lot ID: I3249
(Acetonitrile) Solvent Lot ID: N/A
(1:1 DCM/Acetone) Reagent ID: F519
Silica 0% (2%) ~~Alumina~~ ID: I2620
Na2So4 ID: 8/8 #10 8-29 #2
Neutral glasswool ID: 10/7 #1 7-19 #2
Hexane

Spk Amt = 50 µL
Concentration 30 µg/mL
ID: 1254-4B
Added: GAH
Witness: TH

3007F

Revision 6
7/29/03

QA LIMs # _____
EXT LIMs # _____
Bid # _____

(8270)PNA/ SIM PNA/(8310)PNA-- Soil/Sediment
In House_____ PSDDA_____Pro-Sep_____
(3550B) Microtip_____
(3550B Macrotip_____
KD_____
Turbovap_____

ANALYTICAL RESOURCES INCORPORATED

Client Name: _____

ARI Job No(s): _____

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted	GPC Aliquot #1 / # 2	Alumina Aliquot	Final Effective Volume	Volume To Lab	Time Extracted_____ Comments
MB:							
SB:							
JU43Q		12.52					
↓ R		14.59		↓	↓	↓	
Date/Analyst:				7/9/11 →			

Surrogate Amount: _____ Added By: _____/Spk. Witness_____
Concentration: _____ ID: _____

Spike Amount: _____ Added By: _____/Spk. Witness_____
Concentration: _____ ID: _____

(DCM) Solvent Lot ID: _____
(Acetonitrile) Solvent Lot ID: _____
(1:1 DCM/Acetone) Reagent ID: _____
(2%) Alumina ID: _____
Na2So4 ID: _____
Neutral glasswool ID: _____

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JU43 Client Name: Anchor Environmental

Parameter: SIM PNA low level Client Project: T4 Early Action

3575 SOP Number(s) [ ] No Anomalies

List problems, corrective actions, and any other pertinent information:

Extraction

Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: ju43 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): Sim PNA's + Extra's

Instrument: (NT-1) NT-2 NT-4 NT-6

Curve Date: 9.4.2006 Analysis Start Date: 9.12.2006

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	(YES) / NO
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

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

Includes forms, curve, Logbook pages (9/14 - still in Progress)

- Samples C, F run @ 3X initially - both required dilutions.
- Dilutions as follows: BdL @5X, CdL @20X, FdL @ 10X, HdL @ 5X, IdL @ 3X, PdL @ 5X

- Sulfur background interferes with 1-methylphenanthren in samples D, E, idL, J, K - "m" flagged and P, Q, R, PdL "Y" flagged
Sample B showed Dibenz(AH)anthracen @ 107% (qc limit) = 105 - dilution is okay

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 9.14.2006

Reviewer's Signature: [signature] **Date:** 9/14/06

recommending "J" flags due to ~~unfamiliarity~~ inexperience

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 9.4.2006 Analysis: SimpNA Analyst: VTS

GC Program: SimpNA Column No: 97876 Column Type: 2B-5

Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706

Calibration File: df0904A Curve Date: 9.4.2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060904A.b

	Time	Filename	LabID	ClientId	DF											
1	1115	df0904a.d	DF0904		1	NO ISTDS FOUND										
2	1135	ic0904a.d	IC0904A		1	6.83	452281	8.89	225070	10.70	300728	14.01	217646	15.93	220685
3	1159	ic0904b.d	IC0904B		1	6.83	488194	8.89	233642	10.70	299936	14.01	212975	15.93	219046
4	1224	ic0904c.d	IC0904C		1	6.83	403205	8.89	197165	10.69	251283	14.00	182364	15.93	183753
5	1249	ic0904d.d	IC0904D		1	6.83	409396	8.89	196000	10.70	260108	14.01	176961	15.93	182129
6	1313	ic0904e.d	IC0904E		1	6.83	400769	8.89	189390	10.70	255121	14.01	176657	15.93	181352
7	1338	ic0904f.d	IC0904F		1	6.83	391064	8.89	189715	10.70	244277	14.00	173158	15.93	175181
8	1403	icv0904.d	ICV0904		1	6.83	390715	8.89	186960	10.70	244729	14.01	176078	15.93	190669
9	1428	jt97mb.d	JT97MBW1	JT97MBW1	1	6.83	427566	8.89	205869	10.70	268312	14.01	185665	15.93	193632
10	1452	jt97sb.d	JT97LCSW1	JT97LCSW1	1	6.83	413742	8.89	202873	10.70	261752	14.01	183369	15.93	183645
11	1517	jt97sbd.d	JT97LCSDW1	JT97LCSDW1	1	6.83	421362	8.89	208479	10.70	271430	14.01	190470	15.93	193427
12	1542	jt97b.d	JT97B2-66-PL2-009A-17-W		1	6.83	434963	8.89	212762	10.70	273451	14.01	193178	15.93	193133
13	1606	jt97c.d	JT97C2-66-PL3-009A-17-W		1	6.83	452579	8.89	219817	10.70	287342	14.00	207943	15.93	202110
14	1631	jt97f.d	JT97F2-66-PL2-607A-13-W		1	6.82	446834	8.89	235408	10.70	286931	14.01	215272	15.93	210771
15	1656	jt97i.d	JT97I2-66-PL2-013A-13-W		1	6.83	422337	8.89	206376	10.70	274826	14.00	191615	15.93	193943
16	1720	jt14mb.d	JT14MBS2	JT14MBS2	1	6.82	413998	8.89	193939	10.70	251893	14.01	188613	15.93	191885
17	1745	jt14sb.d	JT14LCSS2	JT14LCSS2	1	6.83	413510	8.89	202043	10.70	257931	14.01	187121	15.92	191066
18	1810	jt14sbd.d	JT14LCSDS2	JT14LCSDS2	1	6.82	403812	8.89	195272	10.70	254976	14.00	185483	15.92	188713
19	1834	jt14a.d	JT14A	2-66-DP-12-1S	1	6.83	415851	8.88	200546	10.69	262592	14.00	188374	15.92	193302
20	1859	jt14b.d	JT14B	2-66-DP-12-5S	1	6.82	414289	8.89	198755	10.70	267206	14.00	192032	15.92	192364
21	1924	jt14c.d	JT14C	2-66-DP-12-10S	1	6.83	415953	8.88	198700	10.70	254259	14.00	191386	15.92	192325
22	1948	jt14j.d	JT14J	2-66-DP-02-1S	1	6.82	415906	8.89	189947	10.70	256476	14.00	187981	15.92	190908
23	2013	jt14k.d	JT14K	2-66-DP-02-5S	1	6.82	418207	8.88	206015	10.70	264203	14.00	196988	15.92	203987
24	2038	jt14kms.d	JT14KMS	2-66-DP-02-5S MS1	1	6.83	415496	8.88	201070	10.69	255977	14.00	198860	15.92	202008
25	2102	jt14kmsd.d	JT14KMSD	2-66-DP-02-5S MSD1	1	6.82	423068	8.88	199243	10.70	258179	14.00	192569	15.92	201578

No Maintenance

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): ic0904A

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

VTS 9.5.2006

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 9.12.2006 Analysis: SimpNA Analyst: VTS

GC Program: SimpNA Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706

Calibration File: df0912 Curve Date: 9.4.2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-05)	(1409-01)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060912.b

	Time	Filename	LabID	ClientId	DF									
1	1047	df0912.d	DF0912		1	NO ISTDS FOUND								
2	1102	cc0912.d	CC0912		1	6.81	341552	8.87	169375	10.68	232185	13.99	179856	15.90	175373
3	1138	ju70adl.d	JU70ADL	PW-6	5	6.81	332388	8.87	173344	10.68	227854	13.99	169562	15.90	182896
4	1203	ju43mb.d	JU43MBS1	JU43MBS1	1	6.81	308875	8.87	149083	10.67	194723	13.98	147155	15.90	152189
5	1228	ju43lcs.d	JU43LCSS1	JU43LCSS1	1	6.81	299258	8.87	146390	10.68	190003	13.99	143435	15.90	143011
6	1253	ju43a.d	JU43A	T4-B414-01-D	1	6.81	309586	8.87	153628	10.68	205279	13.99	156625	15.90	164811
7	1317	ju43b.d	JU43B	T4-B414-01-F	1	6.81	334612	8.87	164608	10.68	218885	13.99	173721	15.91	176697
8	1342	ju26hdl.d	JU26H	MW-81-0806	10	6.81	329213	8.87	162394	10.68	217919	13.99	171932	15.90	181592
9	1417	ju43c.d	JU43CDL	T4-B414-01-E	3	6.81	323562	8.87	167006	10.68	212006	14.00	173153	15.92	184040
10	1442	ju43d.d	JU43D	T4-B414-02-D	1	6.81	384197	8.87	184808	10.68	234301	14.00	164692	15.93	175845
11	1507	ju43e.d	JU43E	T4-B414-02-E	1	6.81	384676	8.87	183746	10.68	237738	14.00	172973	15.93	178169
12	1531	ju43f.d	JU43F	T4-B414-02-F	3	6.81	353433	8.87	176347	10.68	226575	13.99	170371	15.91	171795
13	1556	ju43g.d	JU43G	T4-B414-04-D	1	6.81	353358	8.87	173658	10.68	220377	14.00	164456	15.92	170311
14	1621	ju43h.d	JU43H	T4-B414-04-E	1	6.81	372304	8.87	177154	10.68	218931	14.01	146072	15.94	143711
15	1645	ju43i.d	JU43I	T4-B414-04-F	1	6.81	379655	8.87	185425	10.68	230996	14.01	167722	15.93	158000
16	1710	ju43j.d	JU43J	T4-S3-02-K	1	6.81	350331	8.87	173554	10.68	223379	13.99	167988	15.91	168634
17	1735	ju43jms.d	JU43JMS	T4-S3-02-K MS	1	6.81	352729	8.87	177734	10.68	221061	13.99	167734	15.90	172925
18	1759	ju43jmsd.d	JU43JMSD	T4-S3-02-K MSD	1	6.81	360577	8.87	169569	10.68	218745	13.99	171509	15.91	168593
19	1824	ju43k.d	JU43K	T4-S3-08-D	1	6.81	358813	8.87	171570	10.68	219923	13.99	168286	15.90	171095
20	1849	ju43kms.d	JU43KMS	T4-S3-08-D MS	1	6.81	348234	8.87	161874	10.68	214128	13.99	165529	15.90	163783
21	1913	ju43kmsd.d	JU43KMSD	T4-S3-08-D MSD	1	6.81	323874	8.87	160651	10.68	205292	13.99	156566	15.90	158338
22	1938	ju43l.d	JU43L	T4-S3-05-K	1	6.81	341462	8.87	166459	10.68	208588	13.99	162936	15.90	164050
23	2003	ju43m.d	JU43M	T4-S3-07-F	1	6.81	342769	8.87	163415	10.68	203381	13.99	158570	15.90	156067
24	2027	ju43n.d	JU43N	T4-S3-04-E	1	6.81	323629	8.87	158154	10.68	196958	13.99	156535	15.90	156355
25	2052	ju43o.d	JU43O	T4-S3-04-F	1	6.81	326919	8.87	161849	10.68	198449	13.99	154145	15.90	152404
26	2117	ju43p.d	JU43P	T4-S3-03-E	1	6.81	345056	8.87	174777	10.68	224867	14.01	161487	15.93	136416
27	2141	ju43q.d	JU43Q	T4-S3-03-F	1	6.81	358740	8.87	174809	10.68	221835	14.00	169272	15.91	164544
28	2206	ju43r.d	JU43R	T4-S3-03-G	1	6.81	343599	8.87	168248	10.68	211240	13.99	163729	15.91	157220

Ma

New liner/new septum/chopped column/cleaned split seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0912

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

9.14.2006 VTS

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 9.13.2006 Analysis: SimpNA Analyst: VTS

GC Program: SimpNA Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706

Calibration File: DF0913 Curve Date: 9.4.2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01)(1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060913.b

	Time	Filename	LabID	ClientId	DF								
1	1003	df0913.d	DF0913		1	NO ISTDS FOUND							
2	1018	cc0913.d	CC0913		1	6.81	337011	8.86	171704	10.67	223924	13.98	172575	15.90	173129
3	1050	js36mb.d	JS36MBS2	JS36MBS2	1	6.81	304806	8.86	145780	10.67	194816	13.98	148550	15.90	149009
4	1115	js36sb.d	JS36LCSS2	JS36LCSS2	1	6.81	291116	8.86	144408	10.67	191780	13.98	143580	15.90	148278
5	1139	jt39tre.d	JT39T	2-66-DP-30-5S	1	6.81	296358	8.87	156108	10.68	204149	13.99	171424	15.90	170346
6	1204	jt39ure.d	JT39U	2-66-DP-30-10S	1	6.81	306143	8.87	158763	10.68	219172	13.98	166798	15.90	162706
7	1230	jt55ere.d	JT55E	2-66-DP-34-5S	1	6.81	295923	8.87	160073	10.68	210334	13.98	161700	15.90	154039
8	1254	jt55fre.d	JT55FRE		1	6.81	231009	8.83	42382	10.68	24732	13.99	171737	15.90	164142
9	1320	js36ire.d	JS36I	2-66-DP-25-10S	1	6.81	328863	8.87	168186	10.68	214616	13.99	161291	15.90	154902
0	1402	jt55fdl.d	JT55F	2-66-DP-34-10S	3	6.82	295088	8.90	133573	10.72	184840	13.99	166730	15.90	164336
1	1441	jt55fdl2.d	JT55FDL	2-66-DP-34-10S	50	6.81	325146	8.87	171940	10.68	225842	13.99	158446	15.90	152426
2	1508	ju43bdl.d	JU43BDL	T4-B414-01-F	5	6.81	310227	8.87	159002	10.68	208147	13.99	157913	15.90	161716
3	1533	ju43cdl.d	JU43CDL	T4-B414-01-E	20	6.81	307757	8.87	156042	10.68	206410	13.99	158203	15.90	160069
4	1559	ju43fdl.d	JU43FDL	T4-B414-02-F	10	6.81	314160	8.87	162213	10.68	207926	13.99	158186	15.91	163605

Maintenance / Comments new liner/ new septum/ Chopped Column/ cleaned split seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0913

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

9.14.2006 VTS

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 9.14.2006 Analysis: SimpAA Analyst: VTS

GC Program: SimpAA Column No: 97876 Column Type: ZB-5

Instrument Tune (.U or .CT.): 0824.U EM Voltage: 1706

Calibration File: df0914 Curve Date: 9.4.2006

IS/SS	Ical/Ccal	LCS/ICV
(1408-03)	(1409-01) (1416-02)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20060914.b

	Time	Filename	LabID	ClientId	DF											
1	0817	df0914.d	DF0914		1	NO ISTDS FOUND										
2	0835	cc0914.d	CC0914		1	6.81	296130	8.87	150727	10.68	195473	13.99	154233	15.90	158265	
3	0902	ju43hdl.d	JU43H	T4-B414-04-E	5	6.81	300679	8.87	149260	10.68	193594	13.99	163864	15.91	174564	
4	0927	ju43idl.d	JU43I	T4-B414-04-F	3	6.81	325607	8.87	161112	10.68	211272	13.99	171007	15.91	179531	
5	0951	ju43pdl.d	JU43P	T4-S3-03-E	5	6.81	315193	8.87	160833	10.68	212780	13.99	164435	15.91	176603	
6	1016	ju89mb.d	JU89MBS1	JU89MBS1	1	6.81	319515	8.87	152101	10.68	199797	13.98	158744	15.90	157703	
7	1040	ju89sb.d	JU89LCSS1	JU89LCSS1	1	6.81	300879	8.87	145634	10.68	185465	13.98	142613	15.90	145775	
8	1105	jv13mb.d	JV13MBS1	JV13MBS1	1	6.81	282713	8.86	137710	10.68	173461	13.98	132558	15.90	133227	
9	1130	jv13sb.d	JV13LCSS1	JV13LCSS1	1	6.81	294759	8.87	139345	10.68	176630	13.98	134150	15.90	134171	
10	1155	jv52a.d	JV52A	SEDCON-18-060906	1	6.81	301144	8.87	148099	10.68	192398	13.99	154519	15.90	163443	
11	1220	jv52b.d	JV52B	SEDCON-19-060906	1	6.81	307350	8.86	146720	10.68	193383	13.99	155581	15.90	152230	
12	1245	jv52c.d	JV52C	SEDCON-20-060906	3	6.81	308251	8.87	157405	10.68	199246	13.99	163613	15.91	140935	
13	1310	jv52d.d	JV52D	SEDCON-21-060906	1	6.81	310094	8.87	155285	10.68	201199	13.99	156180	15.90	146760	
14	1334	jv52e.d	JV52E	SEDCON-22-060906	1	6.81	316885	8.87	152299	10.68	200193	13.99	148163	15.90	138589	
15	1419	jv52c2.d	JV52C	SEDCON-20-060906	1	6.81	328981	8.87	167426	10.68	215013	13.99	148427	15.93	84437	
16	1447	ju89a.d	JU89A	SEDDIS-ROB12-060830	1	6.82	331024	8.87	163203	10.68	213857	13.99	157297	15.91	91105	
17	1512	ju89b.d	JU89B	SEDDIS-ROB13-060830	1	6.82	341974	8.87	163006	10.68	210139	14.00	140372	15.92	67103	
18	1536	ju89c.d	JU89C	SEDDIS-ROB14-060830	3	6.81	332124	8.87	169039	10.68	219959	13.99	149106	15.91	71624	
19	1602	ju89d.d	JU89D	SEDDIS-ROB15-060830	3	6.81	328446	8.87	164725	10.68	209735	13.99	147218	15.91	70958	
20	1627	ju89e.d	JU89E	SEDDIS-ROB16-060830	1	6.81	327542	8.87	163311	10.68	211897	13.99	141356	15.91	64811	
21	1652	jv13a.d	JV13A	SEDDIS-ROB17-060831	3	6.81	310572	8.87	157055	10.68	200517	13.99	135790	15.90	63247	
22	1717	jv13b.d	JV13B	SEDDIS-ROB18-060831	3	6.81	309973	8.87	157598	10.68	204947	13.99	137315	15.91	62809	

IJ = IS <50% Area

New liner/new septum/chopped column/cleaned split seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC0914

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

9.15.2006

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: CURVE Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): Sim PNA/PCP w/ T4 Analytes

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 9.4.2006 Analysis Start Date: 9.4.2006

DFTPP Tune Meets Criteria?	YES / NO	~~Method Blank in Control?~~	~~YES / NO~~
DDT Breakdown <20%?	YES / NO / NA	~~LCS / LCSD Recovery in Control?~~	~~YES / NO~~
Peak Tailing Factor in Control?	YES / NO / NA	~~MS/MSD Recovery in Control?~~	~~YES / NO~~
ICal Meets RF & %RSD Criteria?	YES / NO	~~Surrogate Recovery in Control?~~	~~YES / NO~~
~~CCal Meets RF & %RSD Criteria?~~	~~YES / NO~~	~~Special Analysis Criteria Met?~~	~~YES / NO / NA~~
~~Internal Standard Meets Criteria?~~	~~YES / NO~~		

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

All targets met 15% RSD

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 9.5.2006

Reviewer's Signature: _____ **Date:** 9/5/06

NWTPH-Dx Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
090606MBS	64.4%	0
090606LCS	72.9%	0
T4-S3-02-K	66.0%	0
T4-S3-02-K	MS 70.4%	0
T4-S3-02-K	MSD68.9%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(56-108)	(38-118)

Prep Method: SW3550B
Log Number Range: 06-15854 to 06-15854

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: T4-S3-02-K
MS/MSD

Lab Sample ID: JU43J
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/08/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Date Extracted MS/MSD: 09/06/06

Date Analyzed MS: 09/07/06 13:03
MSD: 09/07/06 13:18
Instrument/Analyst MS: FID3A/JGR
MSD: FID3A/JGR

Sample Amount MS: 7.43 g-dry-wt
MSD: 7.42 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 25.8%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	7.8	149	202	69.9%	137	202	64.0%	8.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	70.4%	68.9%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-090606
LAB CONTROL

Lab Sample ID: LCS-090606
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/08/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Date Extracted: 09/06/06
Date Analyzed: 09/07/06 12:31
Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	95.0	150	63.3%

TPHD Surrogate Recovery

o-Terphenyl	72.9%

Results reported in mg/kg

4

TPH METHOD BLANK SUMMARY

BLANK NO.

JU43MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ARNCHOR ENVIRONMENTAL

SDG No.: JU43 Project No.: T4 EARLY ACTION

Date Extracted: 09/06/06 Matrix: SOLID

Date Analyzed : 09/07/06 Instrument ID : FID3A

Time Analyzed : 1216

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JU43LCSS1	JU43LCSS1	09/07/06
02	T4-S3-02-K	JU43J	09/07/06
03	T4-S3-02-K M	JU43JMS	09/07/06
04	T4-S3-02-K M	JU43JMSD	09/07/06

FORM IV TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

SDG No.: JU43 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 08/14/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.07 TRIAC: 5.34

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	08/14/06	1734	4.07	5.34
02	IB	IB	08/14/06	1750	4.06	5.33
03	ZZZZZ	ZZZZZ	08/14/06	1805	4.07	5.33
04	ZZZZZ	ZZZZZ	08/14/06	1821	4.03	5.32
05	50 PPM DIESE	50 PPM DIESE	08/14/06	1836	4.05	5.35
06	100 PPM DIES	100 PPM DIES	08/14/06	1852	4.06	5.36
07	250 PPM DIES	250 PPM DIES	08/14/06	1918	4.08	5.34
08	500 PPM DIES	500 PPM DIES	08/14/06	1933	4.08	5.34
09	1000 PPM DIE	1000 PPM DIE	08/14/06	2000	4.09	5.34
10	2500 PPM DIE	2500 PPM DIE	08/14/06	2015	4.15*	5.35
11	ZZZZZ	ZZZZZ	08/14/06	2031	4.07	5.34
12	DIESEL CVS	DIESEL CVS	08/14/06	2058	4.07	5.35
13	DIESEL ICV	DIESEL ICV	08/14/06	2113	4.06	5.35

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL

SDG No.: JU43 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 07/15/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.03 TRIAC: 5.26

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	07/15/06	1449	4.03	5.26
02	IB	IB	07/15/06	1505	4.03	5.26
03	ZZZZZ	ZZZZZ	07/15/06	1521	4.03	5.24
04	50 PPM DIESE	50 PPM DIESE	07/15/06	1537	4.03	5.26
05	100 PPM DIES	100 PPM DIES	07/15/06	1553	4.03	5.26
06	250 PPM DIES	250 PPM DIES	07/15/06	1608	4.03	5.26
07	500 PPM DIES	500 PPM DIES	07/15/06	1624	4.04	5.27
08	1000 PPM DIE	1000 PPM DIE	07/15/06	1640	4.05	5.27
09	2500 PPM DIE	2500 PPM DIE	07/15/06	1656	4.07	5.26
10	DIESEL ICV	DIESEL ICV	07/15/06	1712	4.03	5.27
11	DIESEL CVS	DIESEL CVS	07/15/06	1728	4.03	5.27
12	50 PPM JETA	50 PPM JETA	07/15/06	1744	4.02	5.26
13	100 PPM JETA	100 PPM JETA	07/15/06	1759	4.02	5.26
14	250 PPM JETA	250 PPM JETA	07/15/06	1815	4.03	5.25
15	500 PPM JETA	500 PPM JETA	07/15/06	1831	4.03	5.27
16	1000 PPM JET	1000 PPM JETA	07/15/06	1847	4.04	5.26
17	2500 PPM JET	2500 PPM JETA	07/15/06	1903	4.07	5.26
18	JETA CVS	JETA CVS	07/15/06	1919	4.03	5.26
19	100 PPM MOIL	100 PPM MOIL	07/15/06	1935	4.03	5.25
20	250 PPM MOIL	250 PPM MOIL	07/15/06	1950	4.03	5.25
21	500 PPM MOIL	500 PPM MOIL	07/15/06	2006	4.03	5.26
22	1000 PPM MOI	1000 PPM MOI	07/15/06	2022	4.02	5.27
23	2500 PPM MOI	2500 PPM MOI	07/15/06	2038	4.02	5.30
24	5000 PPM MOI	5000 PPM MOI	07/15/06	2054	4.04	5.34*
25	MOIL ICV	MOIL ICV	07/15/06	2109	4.03	5.26
26	MOIL CVS	MOIL CVS	07/15/06	2125	4.03	5.26

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: ARNCHOR ENVIRONMENTAL

SDG No.: JU43 Project: T4 EARLY ACTION

Instrument ID: FID3A GC Column: RTX-1

Run Date: 09/07/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.04 TRIAC: 5.28

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	ZZZZZ	ZZZZZ	09/07/06	1042	4.03	5.25
02	ZZZZZ	ZZZZZ	09/07/06	1058	4.04	5.25
03	RT	RT	09/07/06	1114	4.04	5.28
04	IB	IB	09/07/06	1129	4.04	5.29
05	DIESEL#1	DIESEL#1	09/07/06	1145	4.04	5.29
06	MOIL#1	MOIL#1	09/07/06	1200	4.04	5.29
07	JU43MBS1	JU43MBS1	09/07/06	1216	4.04	5.28
08	JU43LCSS1	JU43LCSS1	09/07/06	1231	4.04	5.28
09	T4-S3-02-K	JU43J	09/07/06	1247	4.04	5.29
10	T4-S3-02-K M	JU43JMS	09/07/06	1303	4.05	5.29
11	T4-S3-02-K M	JU43JMSD	09/07/06	1318	4.05	5.29
12	ZZZZZ	ZZZZZ	09/07/06	1334		5.31
13	ZZZZZ	ZZZZZ	09/07/06	1350	4.06	5.29
14	ZZZZZ	ZZZZZ	09/07/06	1405	4.07	5.32
15	ZZZZZ	ZZZZZ	09/07/06	1421	4.05	5.29
16	ZZZZZ	ZZZZZ	09/07/06	1437	4.05	5.30
17	DIESEL#2	DIESEL#2	09/07/06	1452	4.05	5.30
18	MOIL#2	MOIL#2	09/07/06	1508	5.31*	5.31

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

NWTPH-Dx Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Sediment

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Received: 07/24/06

Data Release Authorized:
Reported: 09/08/06

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-090606	Method Blank	09/06/06	09/07/06	1.0	Diesel	< 5.0 U
06-15854	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	64.4%
JU43J	T4-S3-02-K	09/06/06	09/07/06	1.0	**Diesel**	**7.8**
06-15854	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**14**
					o-Terphenyl	66.0%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a009.d ARI ID: JU43J
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 12:47
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.253	-0.002	16551	53484	GAS (Tol-C12)	180422	11
C8	1.476	0.035	1004	119	DIESEL (C12-C24)	797083	58
C10	2.660	-0.002	569	540	M.OIL (C24-C38)	950171	101
C12	3.145	-0.001	2415	3115	AK-102 (C10-C25)	835654	51
C14	3.463	0.004	4114	1957	AK-103 (C25-C36)	885982	140
C16	3.720	0.000	7819	6523			
C18	3.964	0.003	11180	9164			
C20	4.192	0.003	13267	6127			
C22	4.406	-0.005	12176	10726	STODDARD (C8-C12)	63083	4
C24	4.631	0.003	12084	1921			
C25	4.734	-0.001	18715	15762			
C26	4.842	0.002	12222	6275			
C28	5.050	-0.005	14704	17163			
C32	5.495	0.005	13267	21494			
C34	5.704	0.003	10492	10268			
Filter Peak	6.213	-0.010	2953	3750			
C36	5.909	0.004	6093.0	846	o-Terph Surrogate Rec = 66.1%		(540943)
C38	6.136	0.010	3399.0	610	Triacon Surrogate Rec = 67.7%		(465078)
C40	6.409	0.001	1835	908			
o-terph	4.044	0.004	1267358	540943	JET-A (C10-C18)	329329	28
Triacon Surr	5.293	0.012	731305	465078			

JK 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

Data File: /chem3/fid3a.i/20060907.b/0907a009.d

Date : 07-SEP-2006 12:47

Client ID:

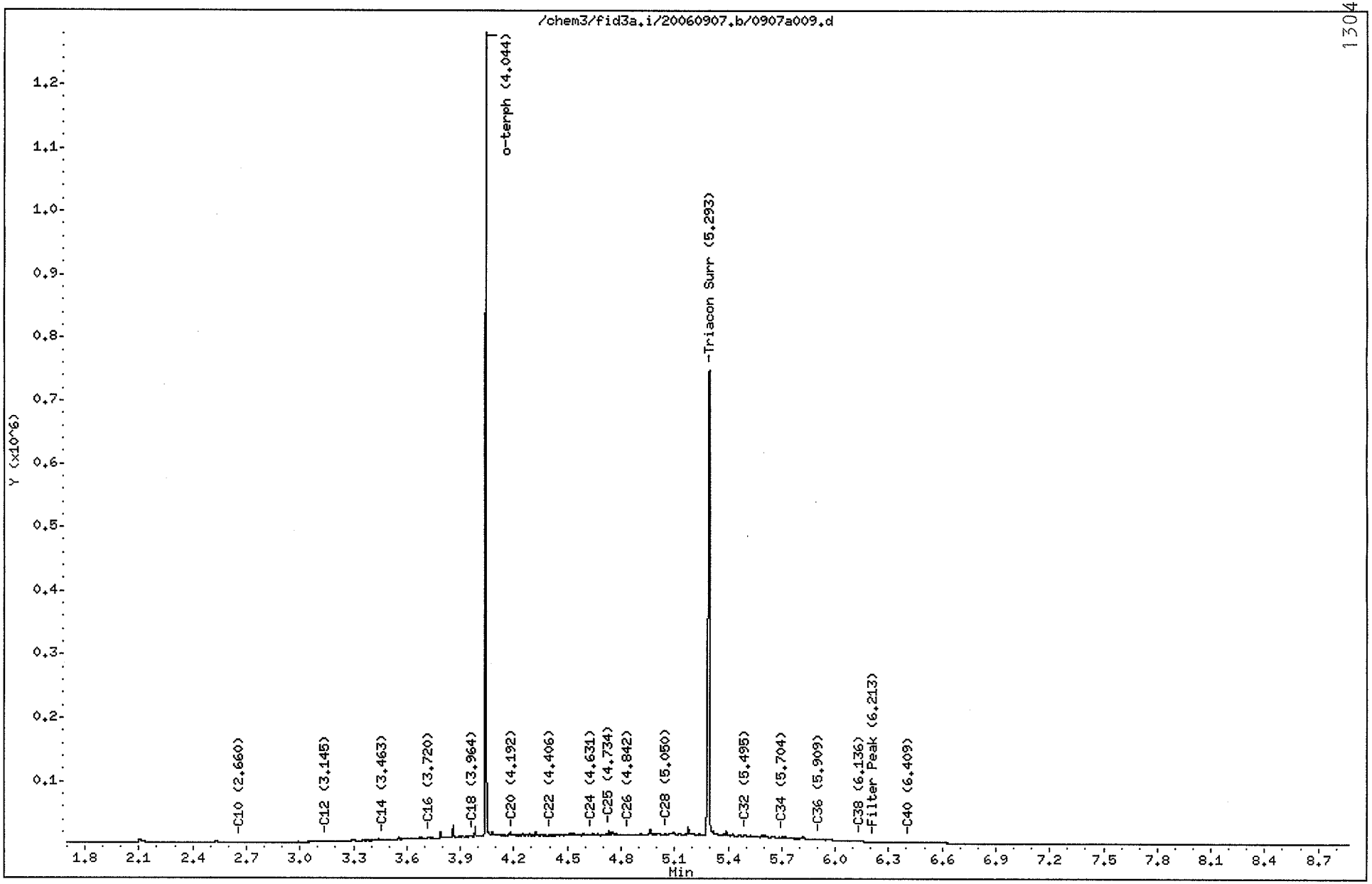
Sample Info: JU43J

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



NWTPH-Dx Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIRONMENTAL

Instrument: FID3A.I Project: EARLY ACTION

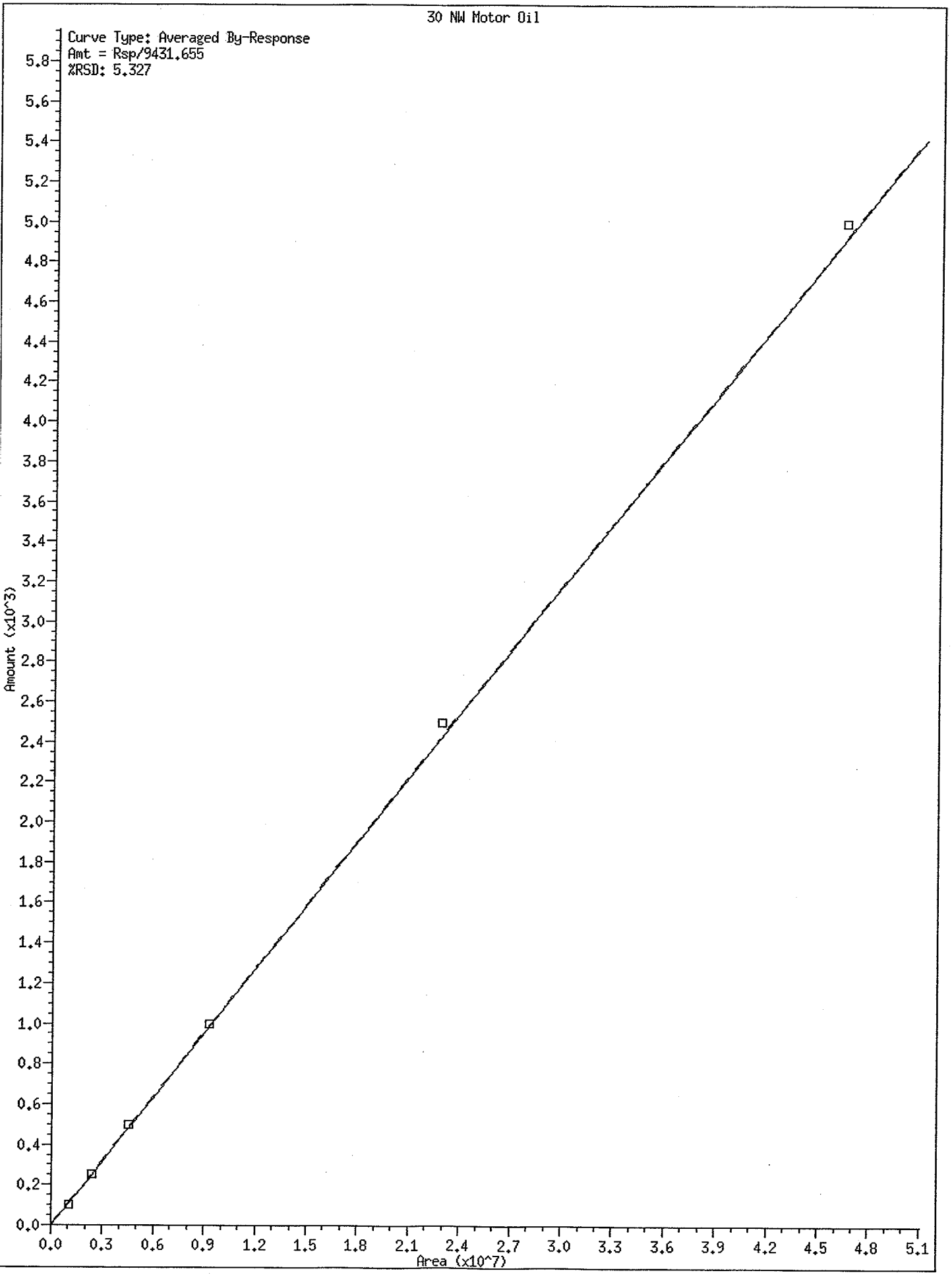
Calibration Date: 15-JUL-2006 SDG No.: JU43

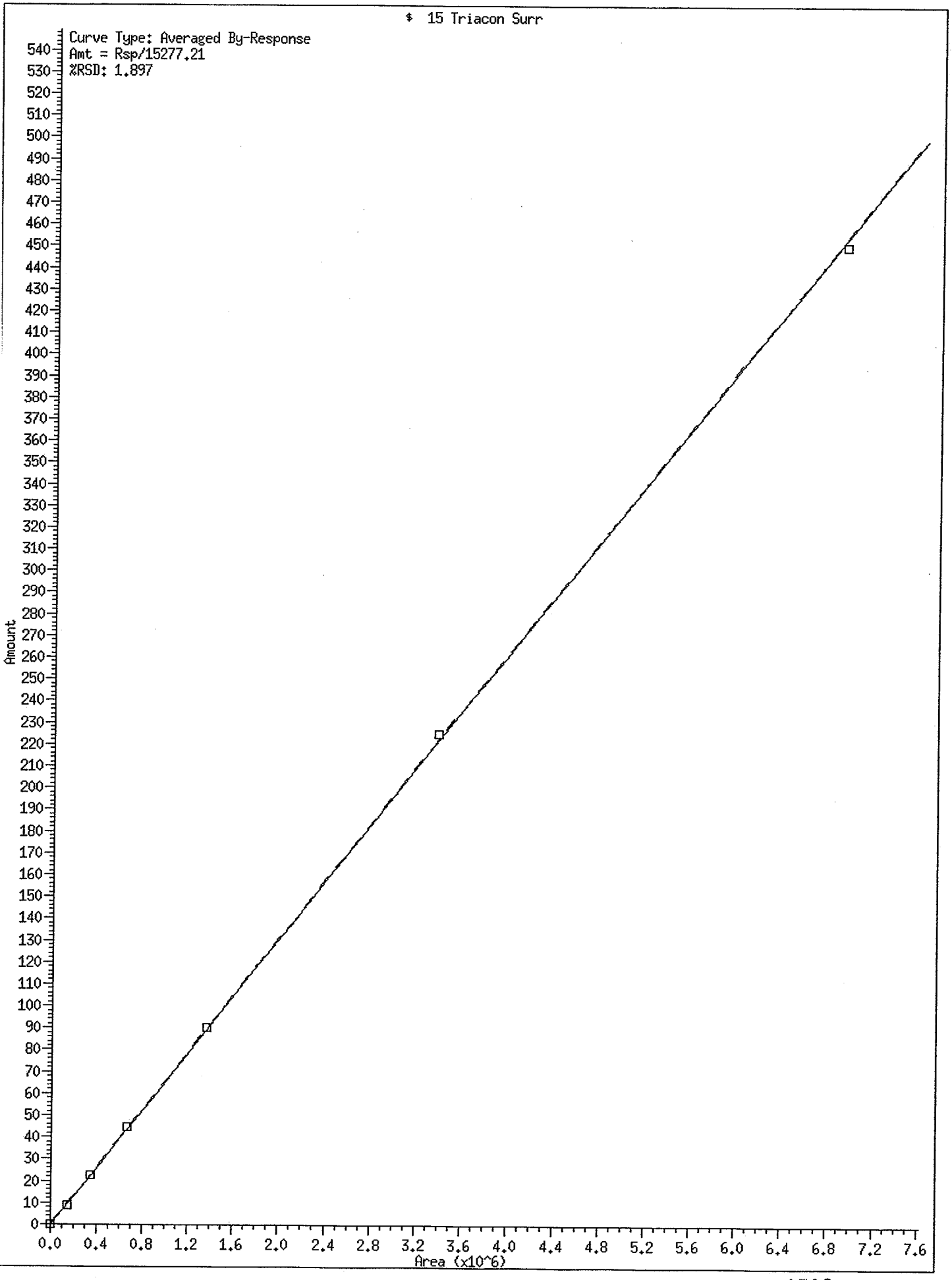
Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	10416	9440	9025	9278	9144	9288	9432	5.3
AK M.Oil	8382	7654	7369	7434	7314	7511	7611	5.2
OR M.Oil	9568	8404	8110	8408	8311	8185	8498	6.3
Triac Surr	15688	15428	14864	15176	15100	15407	15277	1.9

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36
OR M.Oil C28-C40

Calibration Files	Analysis Time
0715a029.d	15-JUL-2006 19:35
0715a030.d	15-JUL-2006 19:50
0715a031.d	15-JUL-2006 20:06
0715a032.d	15-JUL-2006 20:22
0715a033.d	15-JUL-2006 20:38
0715a034.d	15-JUL-2006 20:54


30 NW Motor Oil
Curve Type: Averaged By-Response
Amt = Rsp/9431.655
%RSD: 5.327
Amount (x10^3)
Area (x10^7)
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
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
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


$ 15 Triacon Surr
Curve Type: Averaged By-Response
Amt = Rsp/15277.21
%RSD: 1.897
Amount
Area (x10^6)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a029.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 100 PPM MOIL
Client ID:
Injection: 15-JUL-2006 19:35
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15030	1
C8	1.465	0.015	642	190	DIESEL (C12-C24)	155128	13
C10	2.665	-0.008	88	58	M.OIL (C24-C38)	1041620	110
C12	3.156	0.002	156	90	AK-102 (C10-C25)	163380	11
C14	3.462	0.002	171	36	AK-103 (C25-C36)	880201	139
C16	3.680	-0.040	71254	37425			
C18	3.959	0.007	332	188			
C20	4.175	0.003	1000	669			
C22	4.386	0.000	3158	2033	STODDARD (C8-C12)	15030	1
C24	4.600	0.004	6308	3097			
C25	4.707	0.003	7946	8560			
C26	4.803	-0.007	8364	3641			
C28	5.028	0.000	10070	2571			
C32	5.469	0.003	12930	3296			
C34	5.679	0.000	14936	5003			
Filter Peak	6.233	0.004	9236	2378			
C36	5.888	0.002	14768.0	10969	o-Terph Surrogate Rec = 0.2%		(1368)
C38	6.104	-0.002	11326.0	7574	Triacon Surrogate Rec = 20.5%		(141188)
C40	6.387	0.003	7586	2537			
o-terph	4.030	0.000	1683	1368	JET-A (C10-C18)	52604	5
Triacon Surr	5.246	-0.012	266719	141188			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

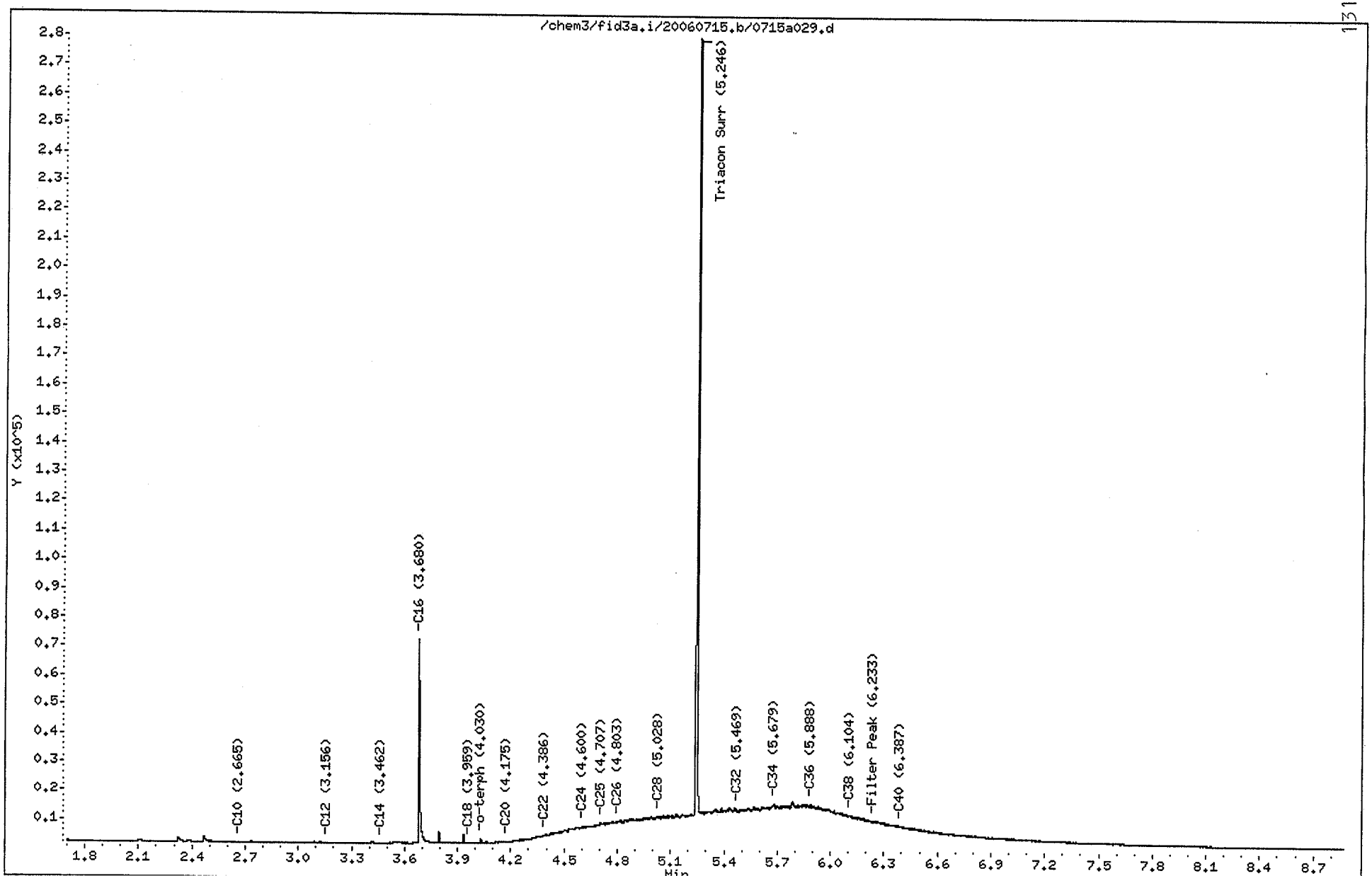
Data File: /chem3/fid3a.i/20060715.b/0715a029.d
Date : 15-JUL-2006 19:35
Client ID:
Sample Info: 100 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1310



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a030.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 250 PPM MOIL
Client ID:
Injection: 15-JUL-2006 19:50
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17493	1
C8	1.457	0.007	678	468	DIESEL (C12-C24)	305031	25
C10	2.673	0.000	84	68	M.OIL (C24-C38)	2359962	250
C12	3.150	-0.003	159	108	AK-102 (C10-C25)	317327	22
C14	3.459	-0.001	186	65	AK-103 (C25-C36)	2014238	317
C16	3.678	-0.042	74718	37907			
C18	3.954	0.001	540	289			
C20	4.169	-0.002	2216	1779			
C22	4.383	-0.003	7223	2975	STODDARD (C8-C12)	17493	1
C24	4.597	0.000	14951	6631			
C25	4.708	0.004	18897	20506			
C26	4.816	0.006	21546	24557			
C28	5.028	0.000	23732	4247			
C32	5.471	0.005	30286	22609			
C34	5.677	-0.003	34225	16646			
Filter Peak	6.228	-0.001	19528	3481			
C36	5.883	-0.003	32631.0	22343	o-Terph Surrogate Rec = 0.3%		(2412)
C38	6.107	0.000	23147.0	8634	Triacon Surrogate Rec = 50.5%		(347132)
C40	6.378	-0.006	15291	8202			
o-terph	4.025	-0.004	3059	2412	JET-A (C10-C18)	59082	5
Triacon Surr	5.252	-0.006	566850	347132			

JR 07/18/06

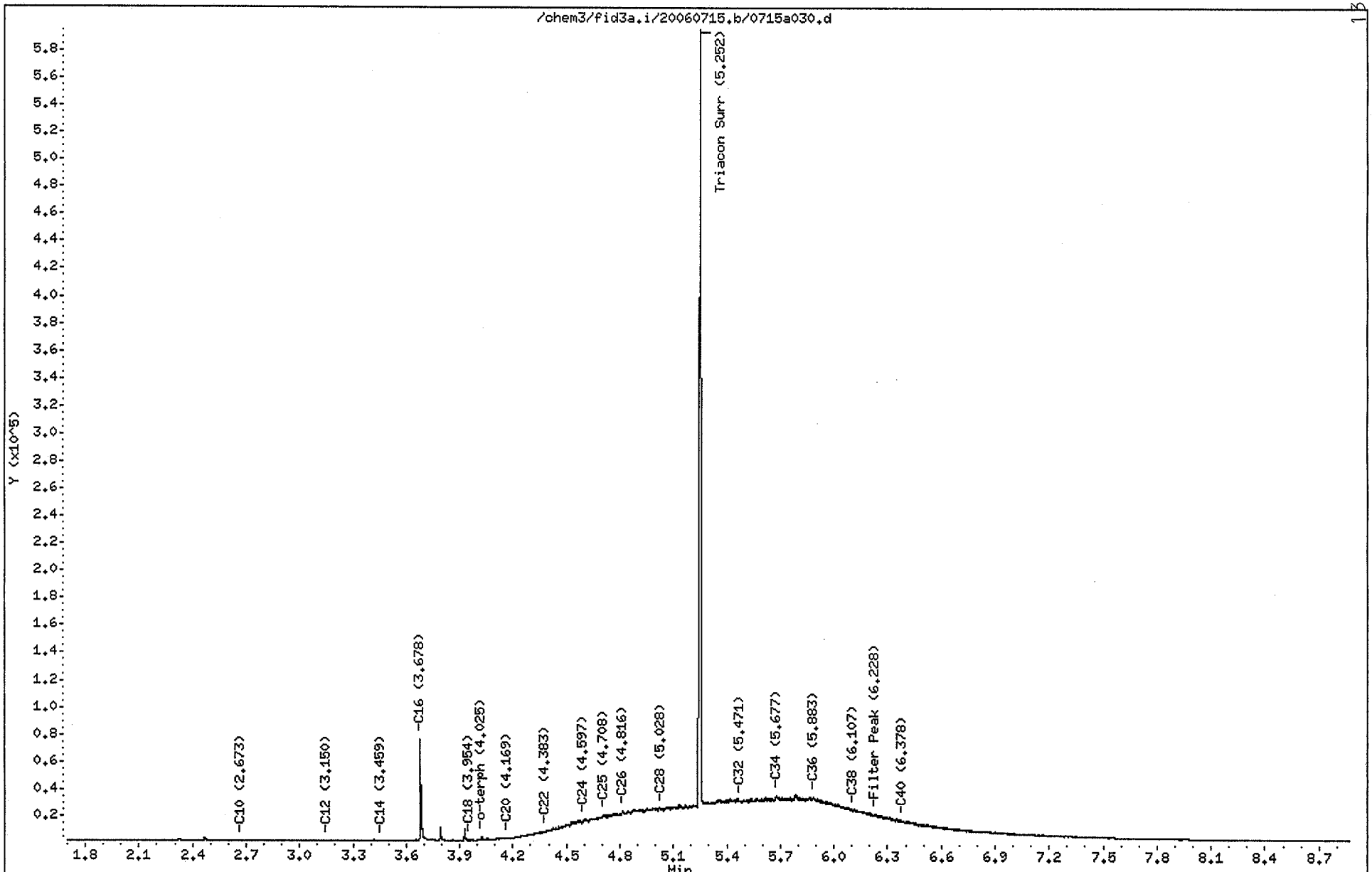
Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a030.d
Date : 15-JUL-2006 19:50
Client ID:
Sample Info: 250 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a031.d ARI ID: 500 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 20:06
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17382	1
C8	1.462	0.012	740	247	DIESEL (C12-C24)	556699	45
C10	2.673	0.000	81	41	M.OIL (C24-C38)	4512422	478
C12	3.153	0.000	206	169	AK-102 (C10-C25)	561118	38
C14	3.468	0.008	252	129	AK-103 (C25-C36)	3884153	612
C16	3.679	-0.041	68856	34265			
C18	3.954	0.002	934	538			
C20	4.170	-0.001	4270	3775			
C22	4.387	0.001	13922	10069	STODDARD (C8-C12)	17382	1
C24	4.597	0.001	29387	12532			
C25	4.706	0.002	35913	31584			
C26	4.807	-0.003	39052	18331			
C28	5.028	0.001	45196	11668			
C32	5.468	0.002	62060	55075			
C34	5.680	0.000	63644	16269			
Filter Peak	6.233	0.004	36201	7100			
C36	5.886	0.000	60314.0	13131	o-Terph Surrogate Rec = 0.4%		(3483)
C38	6.112	0.005	43693.0	9546	Triacon Surrogate Rec = 97.3%		(668897)
C40	6.386	0.002	28346	13388			
o-terph	4.026	-0.004	4552	3483	JET-A (C10-C18)	67307	6
Triacon Surr	5.260	0.002	829577	668897			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a031.d

Date : 15-JUL-2006 20:06

Client ID:

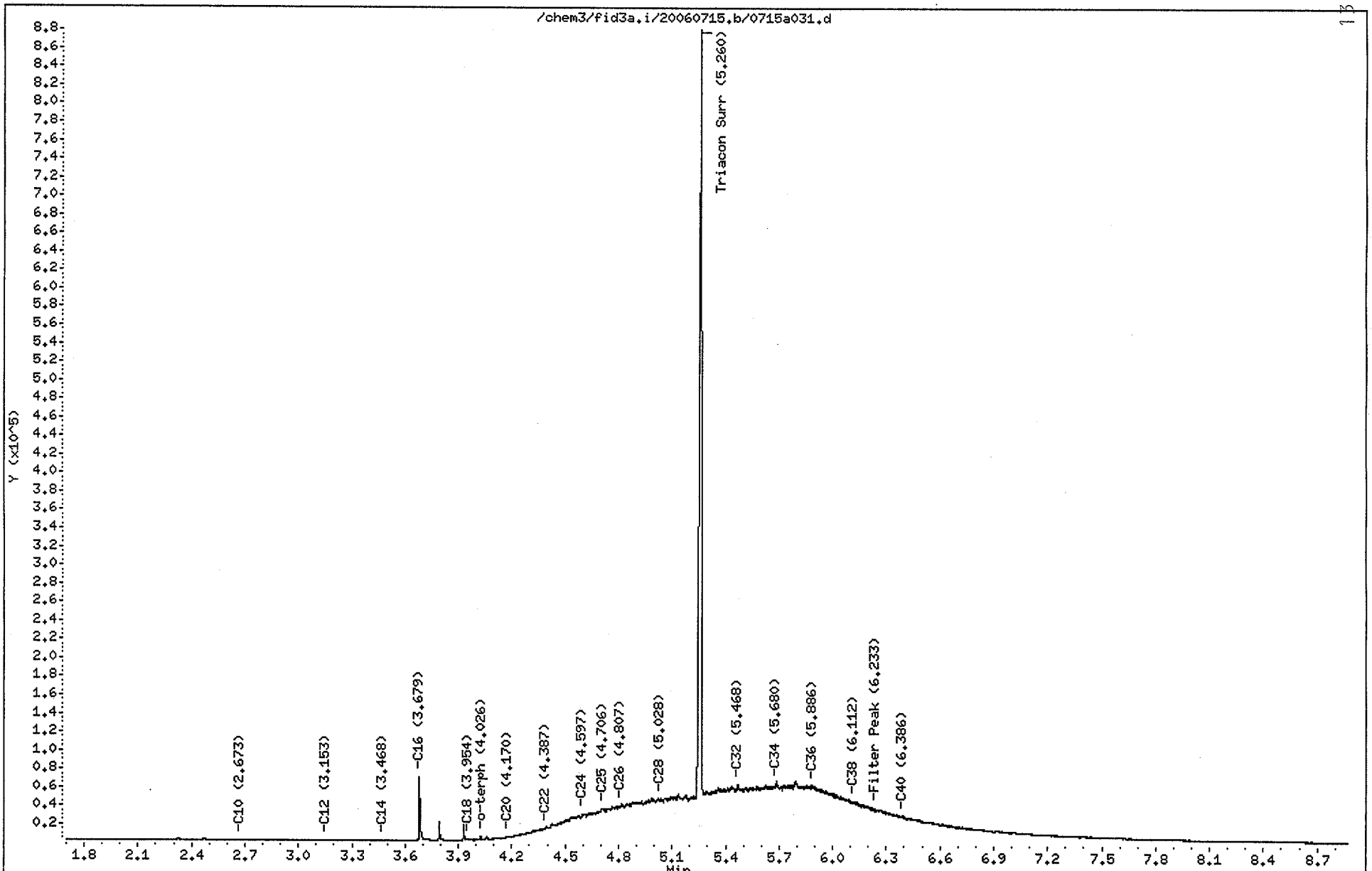
Sample Info: 500 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a032.d ARI ID: 1000 PPM MOIL
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 20:22
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	16254	1
C8	1.473	0.023	624	520	DIESEL (C12-C24)	1091082	88
C10	2.669	-0.004	95	35	M.OIL (C24-C38)	9277757	984
C12	3.150	-0.004	248	226	AK-102 (C10-C25)	1096300	75
C14	3.463	0.003	326	76	AK-103 (C25-C36)	7858512	1238
C16	3.723	0.003	1359	2156			
C18	3.951	-0.001	1912	1133			
C20	4.168	-0.004	8729	7540			
C22	4.383	-0.003	28031	9643	STODDARD (C8-C12)	16254	1
C24	4.594	-0.003	58113	50674			
C25	4.703	-0.001	69936	28481			
C26	4.806	-0.004	76725	56531			
C28	5.025	-0.003	93217	43489			
C32	5.466	0.000	117573	25540			
C34	5.680	0.000	126676	22518			
Filter Peak	6.231	0.002	83296	64731			
C36	5.890	0.003	135144.0	93875	o-Terph Surrogate Rec = 0.7%		(5776)
C38	6.108	0.001	98823.0	32988	Triacon Surrogate Rec = 198.7%		(1365847)
C40	6.386	0.002	63540	40727			
o-terph	4.023	-0.006	7371	5776	JET-A (C10-C18)	95835	8
Triacon Surr	5.270	0.013	1166425	1365847			

JR 07/18/06

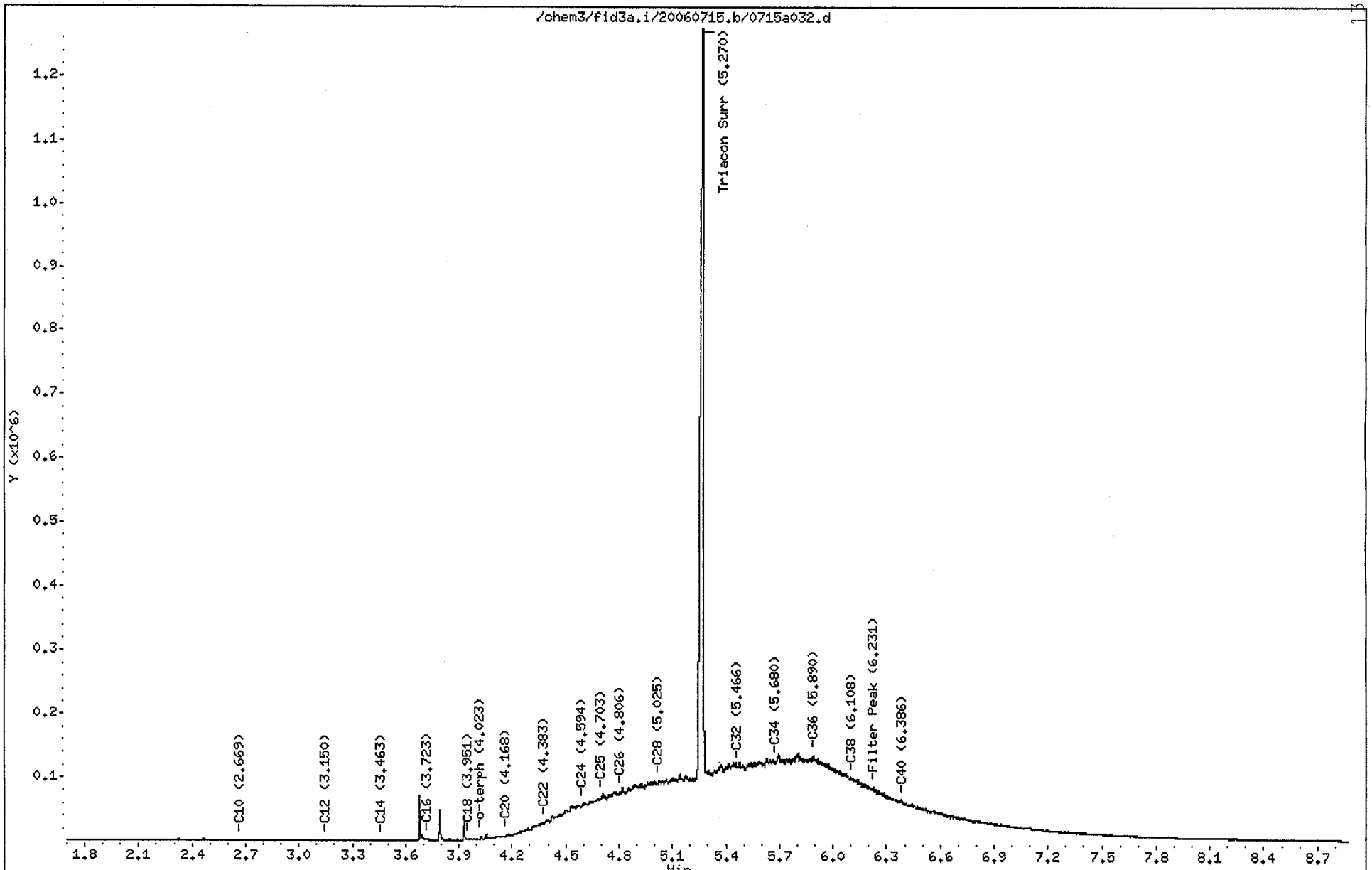
Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a032.d
Date : 15-JUL-2006 20:22
Client ID:
Sample Info: 1000 PPM MOIL

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a033.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 2500 PPM MOIL
Client ID:
Injection: 15-JUL-2006 20:38
Dilution Factor: 1
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	22013	1
C8	1.475	0.025	789	1558	DIESEL (C12-C24)	2611095	211
C10	2.672	-0.001	118	13	M.OIL (C24-C38)	22859118	2424
C12	3.152	-0.001	481	158	AK-102 (C10-C25)	2690414	184
C14	3.459	-0.001	674	277	AK-103 (C25-C36)	19322897	3043
C16	3.720	0.000	4497	4622			
C18	3.950	-0.003	5174	2742			
C20	4.169	-0.003	21671	15825			
C22	4.387	0.001	69772	32388	STODDARD (C8-C12)	22013	1
C24	4.600	0.004	144685	144328			
C25	4.705	0.001	160759	25533			
C26	4.810	0.000	189555	52382			
C28	5.029	0.001	218247	43319			
C32	5.467	0.001	299864	87144			
C34	5.678	-0.001	312482	155734			
Filter Peak	6.227	-0.002	199315	78594			
C36	5.885	-0.001	321951.0	95436	o-Terph Surrogate Rec = 2.0%		(16436)
C38	6.113	0.007	236612.0	32921	Triacon Surrogate Rec = 494.2%		(3397477)
C40	6.380	-0.004	145279	79839			
o-terph	4.022	-0.008	23847	16436	JET-A (C10-C18)	183246	16
Triacon Surr	5.299	0.042	1532987	3397477			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a033.d

Date : 15-JUL-2006 20:38

Client ID:

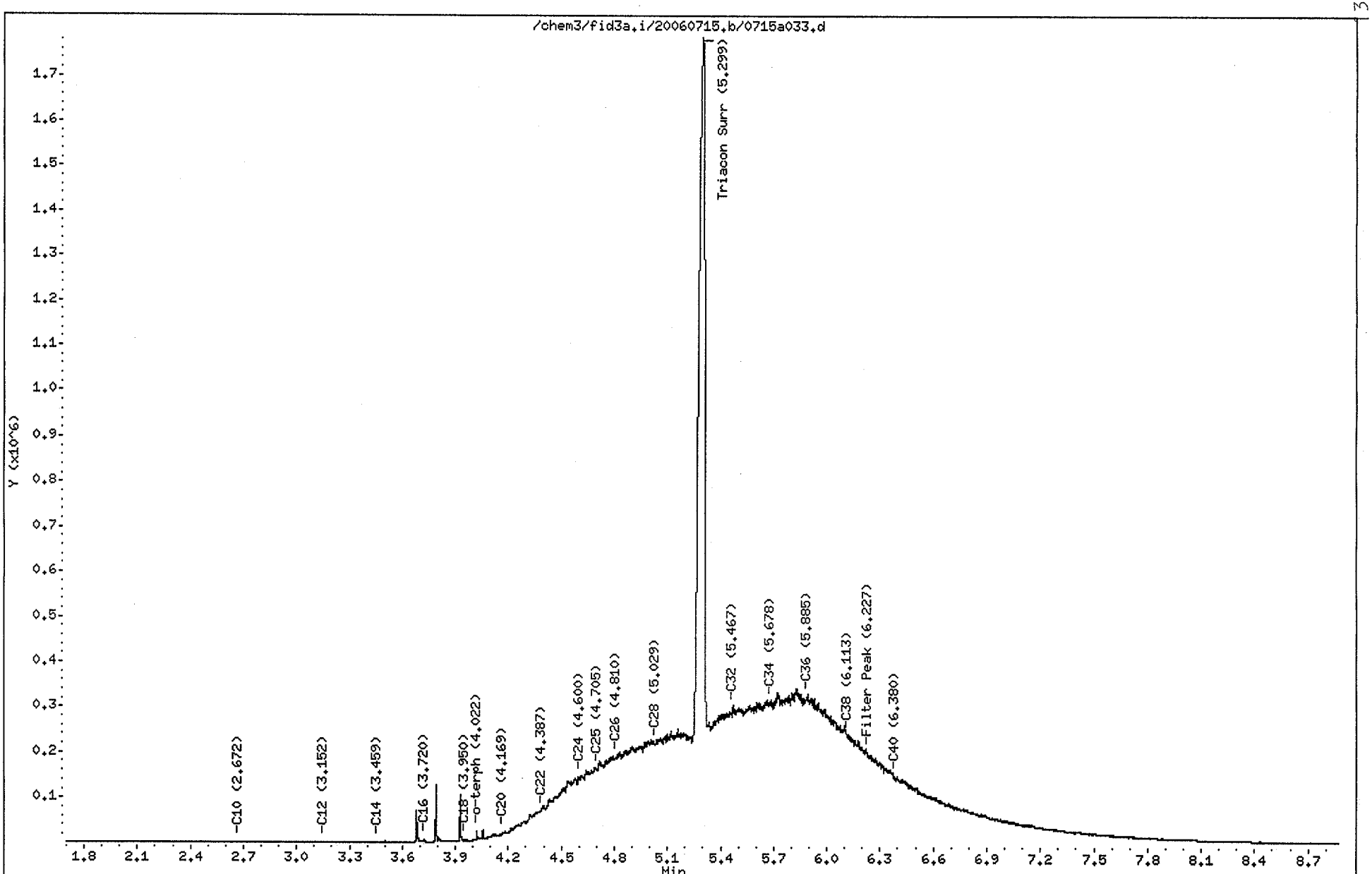
Sample Info: 2500 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a034.d
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 07/18/2006
Macro: 15-MAR-2006
ARI ID: 5000 PPM MOIL
Client ID:
Injection: 15-JUL-2006 20:54
Dilution Factor: 1

Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.290	0.028	56895	42445	GAS (Tol-C12)	194544	10
C8	1.463	0.013	762	196	DIESEL (C12-C24)	5033541	407
C10	2.680	0.007	179	90	M.OIL (C24-C38)	46438173	4924
C12	3.156	0.003	825	608	AK-102 (C10-C25)	5232264	358
C14	3.465	0.005	2680	1817	AK-103 (C25-C36)	39599815	6237
C16	3.721	0.001	3850	4215			
C18	3.950	-0.002	10318	5218			
C20	4.171	0.000	43516	33278			
C22	4.389	0.003	142741	63184	STODDARD (C8-C12)	25036	2
C24	4.601	0.004	281552	88396			
C25	4.702	-0.002	335110	297445			
C26	4.807	-0.003	380731	119826			
C28	5.031	0.003	474501	239562			
C32	5.464	-0.002	575313	91386			
C34	5.678	-0.001	643293	153511			
Filter Peak	6.232	0.003	361231	127826			
C36	5.886	0.000	653679.0	155139	o-Terph Surrogate Rec = 0.5% (4288)		
C38	6.103	-0.004	475930.0	288646	Triacon Surrogate Rec = 1008.5% (6933264)		
C40	6.385	0.001	254588	233268			
o-terph	4.036	0.007	15561	4288	JET-A (C10-C18)	316431	27
Triacon Surr	5.339	0.082	2170701	6933264			

JR 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a034.d

Date : 15-JUL-2006 20:54

Client ID:

Sample Info: 5000 PPM MOIL

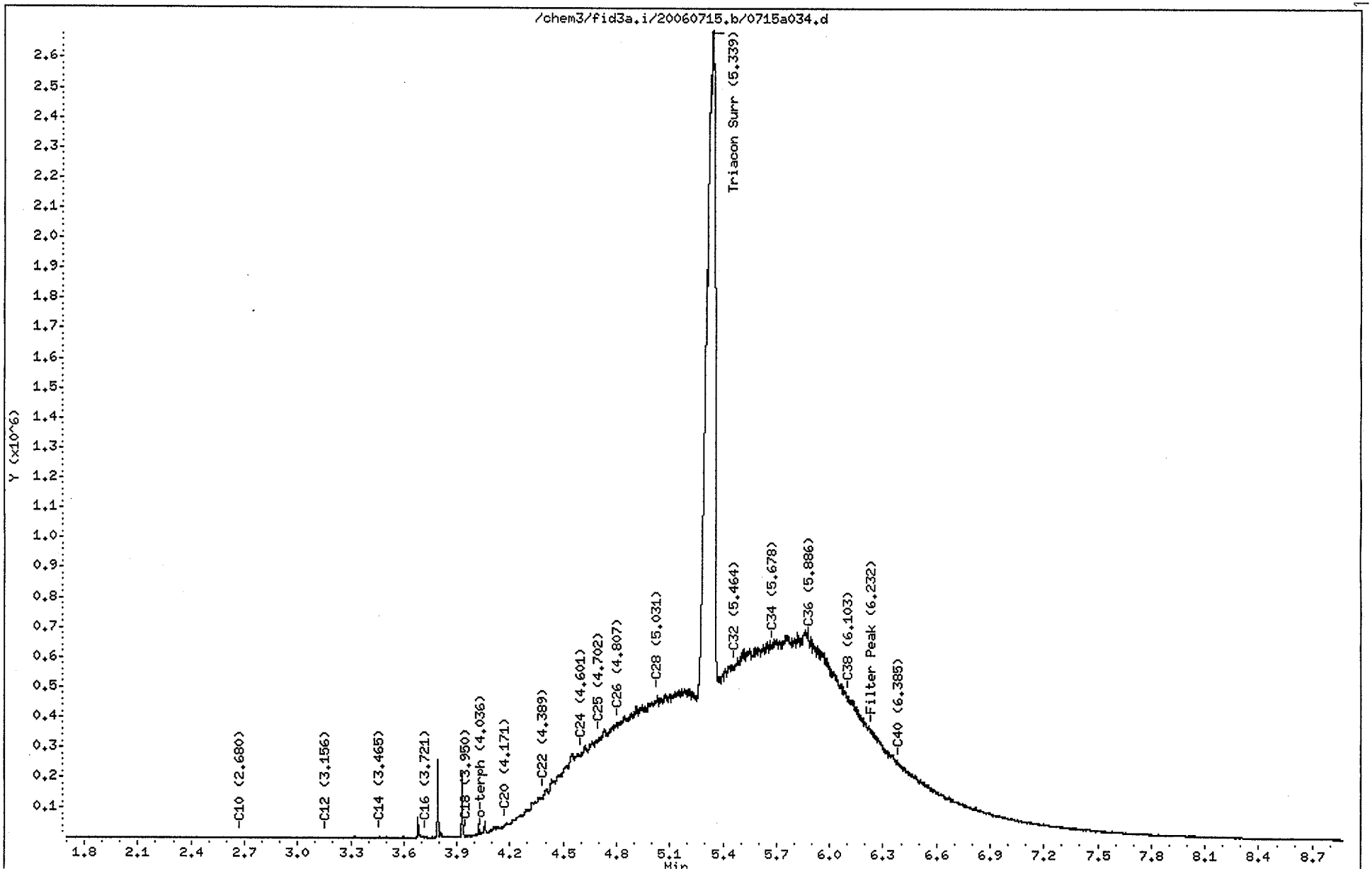
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1320



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a035.d ARI ID: MOIL ICV
Method: /chem3/fid3a.i/20060715.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 15-JUL-2006 21:09
Operator: JR
Report Date: 07/18/2006 Dilution Factor: 1
Macro: 15-MAR-2006
Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15110	1
C8	1.449	-0.001	709	762	DIESEL (C12-C24)	530817	43
C10	2.678	0.005	77	20	M.OIL (C24-C38)	4525768	480
C12	3.155	0.001	236	201	AK-102 (C10-C25)	552589	38
C14	3.466	0.006	296	113	AK-103 (C25-C36)	3840248	605
C16	3.680	-0.040	67258	32786			
C18	3.954	0.001	1042	573			
C20	4.170	-0.002	4168	2797			
C22	4.386	0.000	13923	10194	STODDARD (C8-C12)	15110	1
C24	4.595	-0.001	27723	7682			
C25	4.703	-0.001	32630	12008			
C26	4.807	-0.003	35449	7022			
C28	5.026	-0.002	44380	24612			
C32	5.465	-0.001	58827	42732			
C34	5.680	0.001	66535	21962			
Filter Peak	6.224	-0.005	41353	27310			
C36	5.889	0.003	65543.0	35755	o-Terph Surrogate Rec = 0.5%		(3882)
C38	6.104	-0.002	48408.0	31481	Triacon Surrogate Rec = 91.8%		(631136)
C40	6.382	-0.002	32014	16451			
o-terph	4.025	-0.004	5864	3882	JET-A (C10-C18)	68242	6
Triacon Surr	5.257	0.000	810352	631136			

JK 07/18/06

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

Data File: /chem3/fid3a.i/20060715.b/0715a035.d

Date : 15-JUL-2006 21:09

Client ID:

Sample Info: MOIL ICV

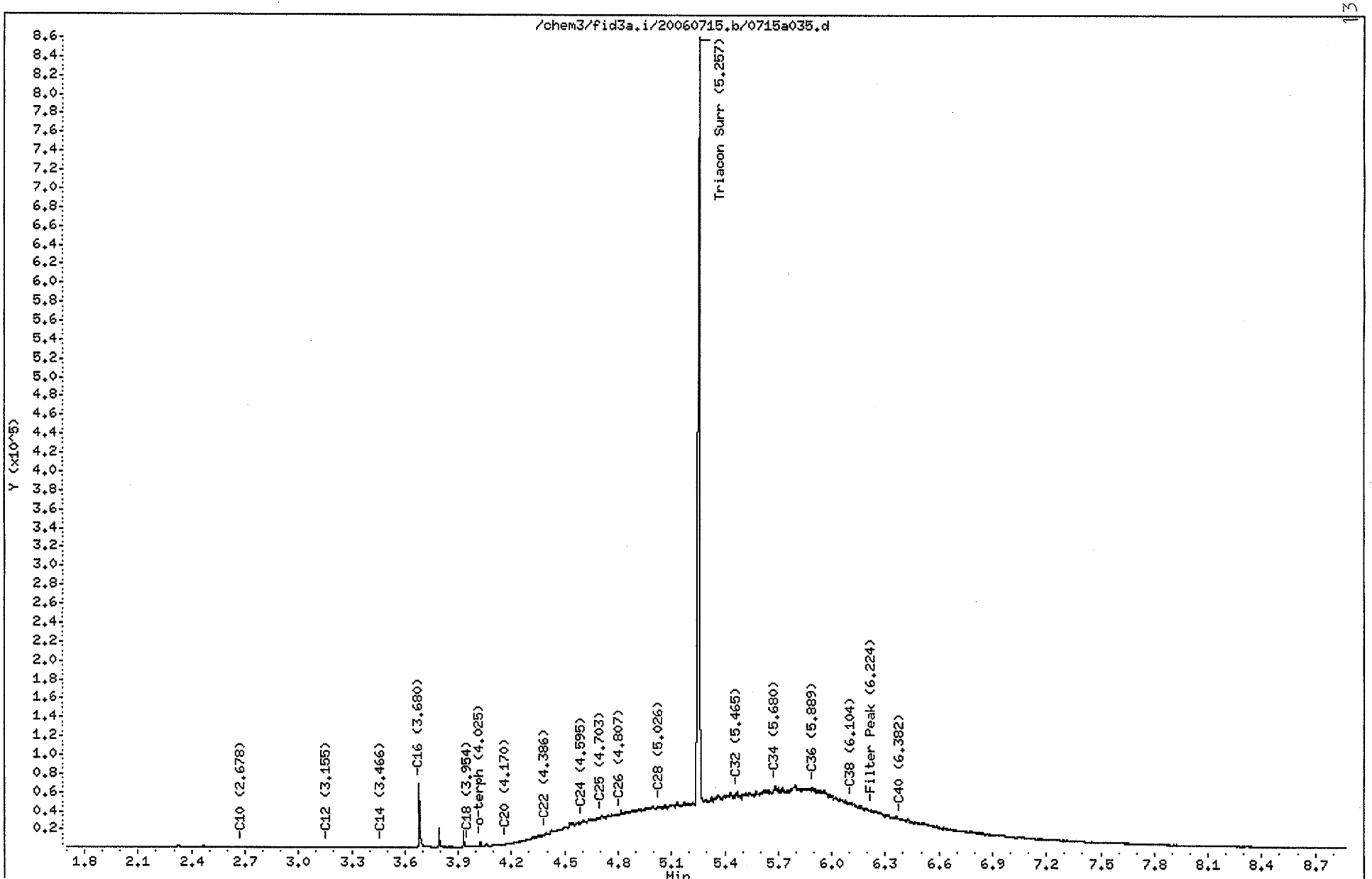
Instrument: fid3a.i

Operator: JR

Column phase: RTX-1

Column diameter: 0.25

1322



6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIRONMENTAL

Instrument: FID3A.I Project: EARLY ACTION

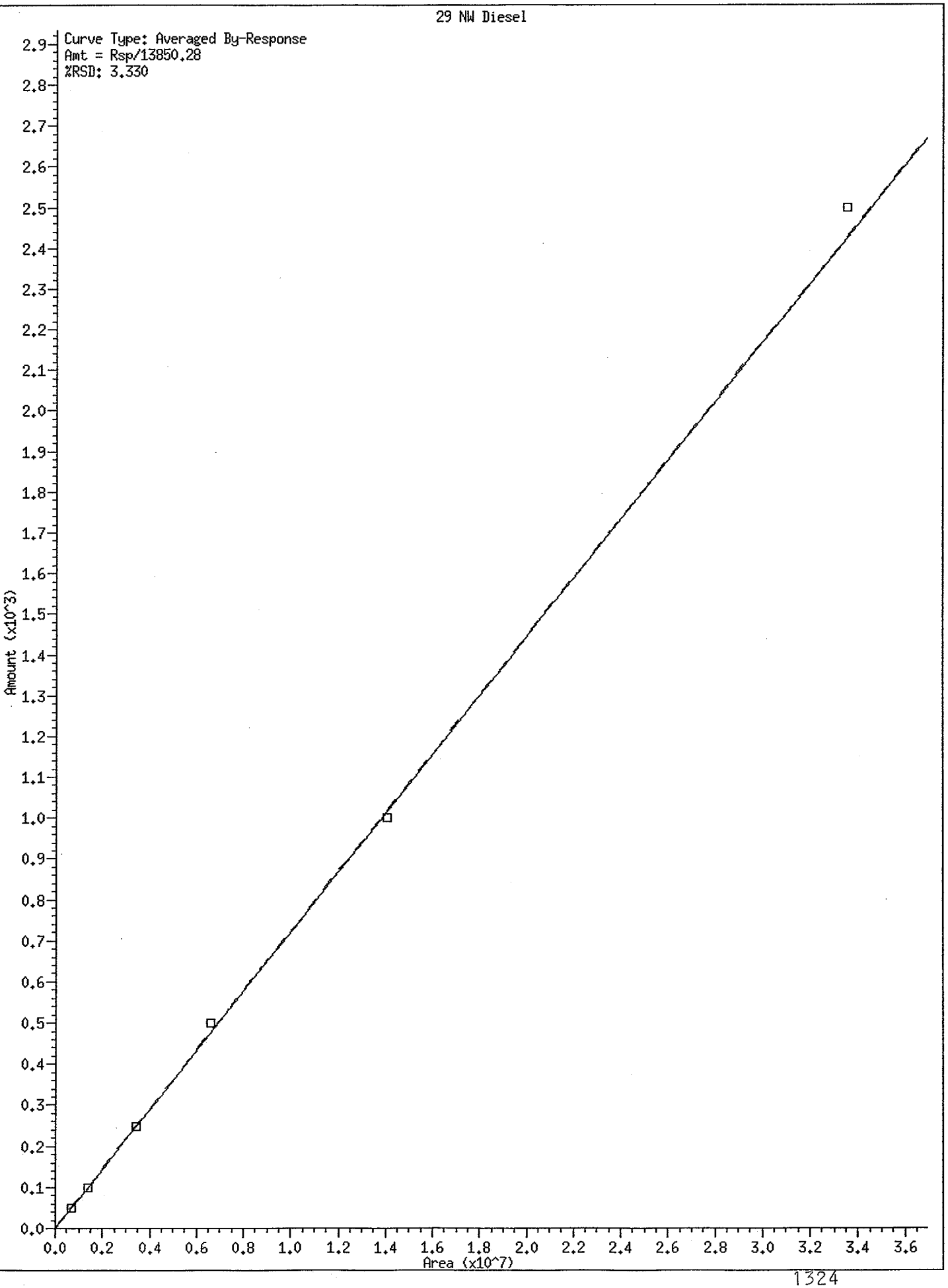
Calibration Date: 14-AUG-2006 SDG No.: JU43

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	14478	14134	13722	13261	14075	13432	13850	3.3
AK Diesel	17400	16961	16355	15740	16658	15907	16503	3.8
OR Diesel	17573	17135	16584	15891	16852	16090	16687	3.8
o-Terph	19885	20177	19692	20026	20915	19328	20004	2.7

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.148-4.690)
AK Diesel C10-C25 (2.655-4.802)
OR Diesel C10-C28 (2.655-5.125)

Calibration Files	Analysis Time
0814a032.d	14-AUG-2006 18:36
0814a033.d	14-AUG-2006 18:52
0814a034.d	14-AUG-2006 19:18
0814a035.d	14-AUG-2006 19:33
0814a036.d	14-AUG-2006 20:00
0814a037.d	14-AUG-2006 20:15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Curve Type: Averaged By-Response
Amt = Rsp/13850.28
%RSD: 3.330
Amount (x10^3)
Area (x10^7)
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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
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
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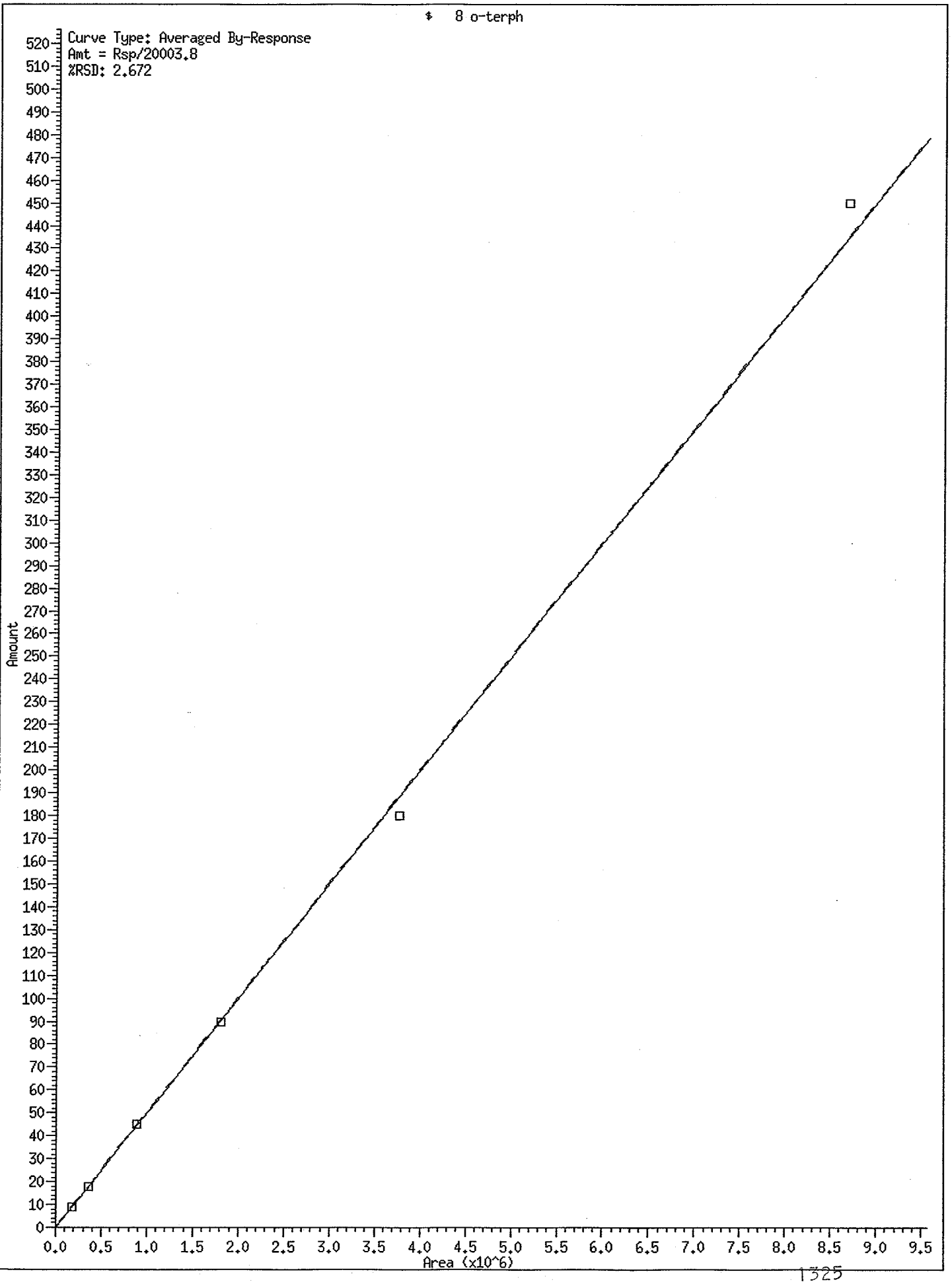
2.6
2.8
3.0
3.2
3.4
3.6


$ 8 o-terph
Curve Type: Averaged By-Response
Amt = Rsp/20003.8
%RSD: 2.672
Amount
Area (x10^6)
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a032.d ARI ID: 50 PPM DIESEL
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 14-AUG-2006 18:36
Operator: JR
Report Date: 08/15/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.014	4524	8133	GAS (Tol-C12)	219088	11
C8	1.453	0.021	1892	3461	DIESEL (C12-C24)	723895	52
C10	2.677	0.021	8160	7361	M.OIL (C24-C38)	100807	11
C12	3.142	-0.007	6878	7040	AK-102 (C10-C25)	869997	53
C14	3.470	0.006	30364	21647	AK-103 (C25-C36)	66437	10
C16	3.734	0.000	38396	22398			
C18	3.995	0.008	16080	14757			
C20	4.215	-0.012	17877	16305			
C22	4.475	0.013	2388	1145	STODDARD (C8-C12)	195225	13
C24	4.675	-0.015	1925	3034			
C25	4.804	0.001	738	811			
C26	4.916	0.006	327	195			
C28	5.117	-0.009	1058	1072			
C32	5.538	-0.002	244	68			
C34	5.749	0.007	1779	352			
Filter Peak	6.052	-0.001	2890	2456			
C36	5.946	0.003	3006.0	717	o-Terph Surrogate Rec = 19.9%		(178967)
C38	6.164	-0.002	2210.0	1079	Triacon Surrogate Rec = 0.0%		(57)
C40	6.457	0.004	1346	637			
o-terph	4.054	-0.014	458883	178967	JET-A (C10-C18)	680207	59
Triacon Surr	5.348	0.007	131	57			

JR 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a032.d

Date : 14-AUG-2006 18:36

Client ID:

Sample Info: 50 PPM DIESEL

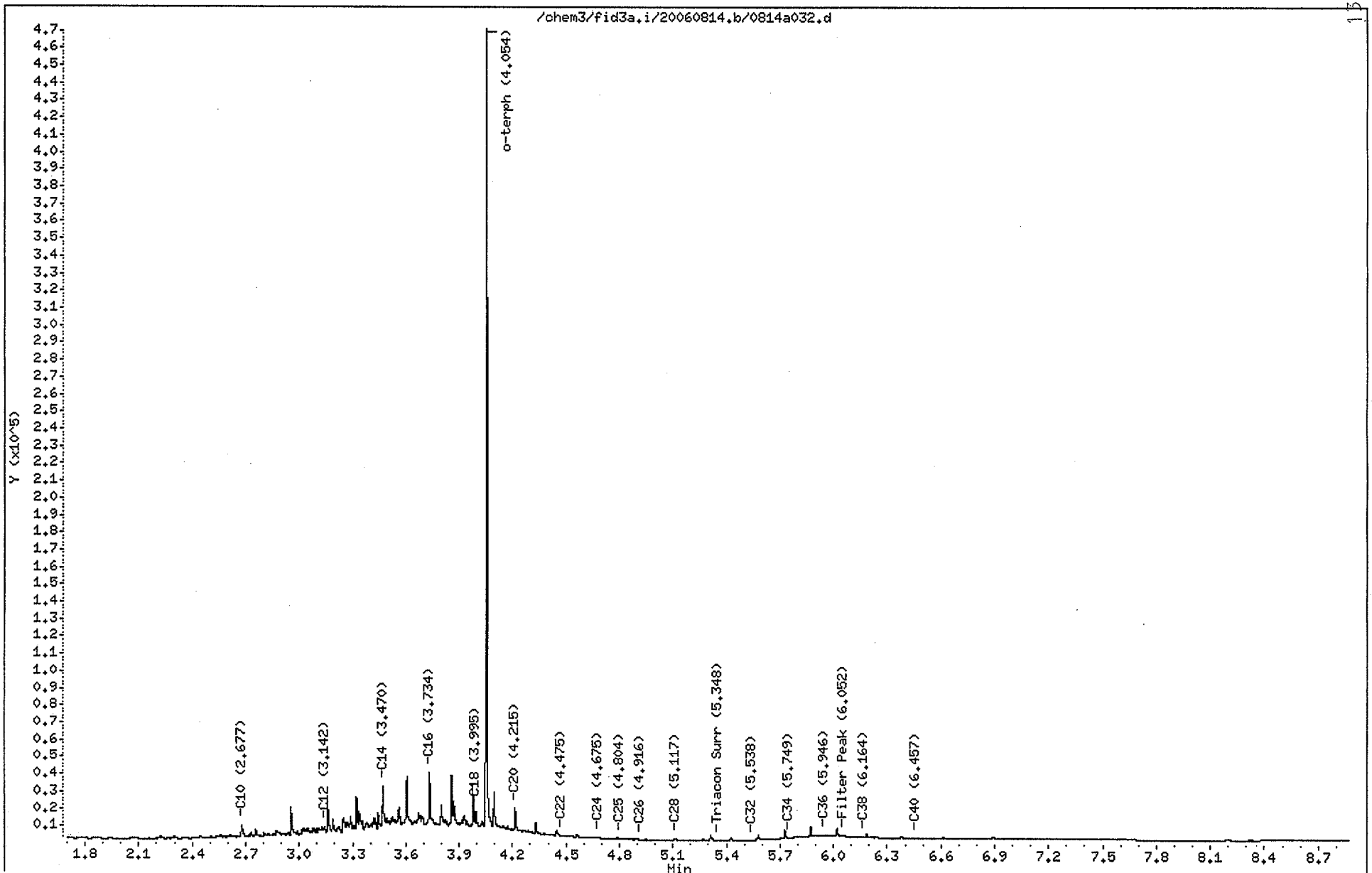
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1527



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a033.d ARI ID: 100 PPM DIESEL
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 14-AUG-2006 18:52
Operator: JR
Report Date: 08/15/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.263	0.013	5245	5366	GAS (Tol-C12)	382506	19
C8	1.453	0.021	2592	4379	DIESEL (C12-C24)	1413386	102
C10	2.673	0.018	19155	14045	M.OIL (C24-C38)	82549	9
C12	3.157	0.009	54205	25508	AK-102 (C10-C25)	1696065	103
C14	3.469	0.005	72458	36239	AK-103 (C25-C36)	57200	9
C16	3.734	0.000	82112	57201			
C18	3.980	-0.007	64205	37759			
C20	4.216	-0.011	39350	28688			
C22	4.472	0.011	4799	3485	STODDARD (C8-C12)	358366	24
C24	4.698	0.008	2197	1653			
C25	4.811	0.009	1448	927			
C26	4.898	-0.013	1231	2304			
C28	5.127	0.001	809	891			
C32	5.536	-0.004	96	57			
C34	5.731	-0.011	3716	3695			
Filter Peak	6.051	-0.002	2093	1082			
C36	5.942	0.000	2230.0	2011	o-Terph Surrogate Rec = 40.3%		(363182)
C38	6.169	0.003	1628.0	615	Triacon Surrogate Rec = 0.0%		(17)
C40	6.456	0.003	958	398			
o-terph	4.058	-0.009	857108	363182	JET-A (C10-C18)	1335542	115
Triacon Surr	5.358	0.017	56	17			

JR 08/15/06

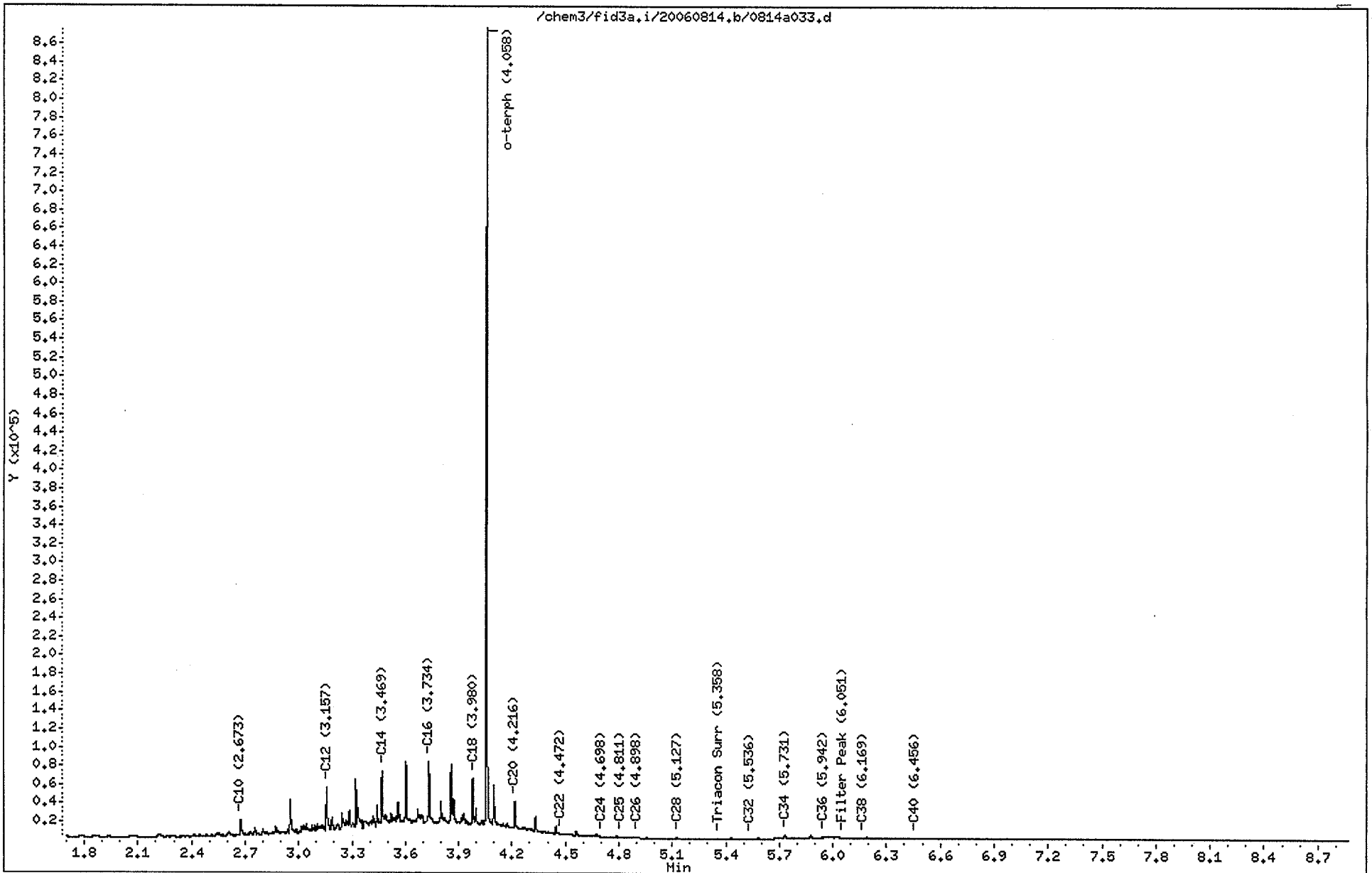
Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a033.d
Date : 14-AUG-2006 18:52
Client ID:
Sample Info: 100 PPM DIESEL

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1329



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a034.d
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/15/2006
Macro: 21-JUN-2006
ARI ID: 250 PPM DIESEL
Client ID:
Injection: 14-AUG-2006 19:18
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.270	0.020	4712	8262	GAS (Tol-C12)	839877	42
C8	1.435	0.003	4125	6659	DIESEL (C12-C24)	3430541	248
C10	2.667	0.011	53520	33231	M.OIL (C24-C38)	297655	32
C12	3.158	0.010	151026	67178	AK-102 (C10-C25)	4088854	248
C14	3.462	-0.002	40350	16302	AK-103 (C25-C36)	228930	36
C16	3.735	0.001	54486	26116			
C18	3.987	0.000	38762	9944			
C20	4.225	-0.002	29150	15968			
C22	4.454	-0.008	13502	9664	STODDARD (C8-C12)	813995	54
C24	4.681	-0.009	5971	4668			
C25	4.800	-0.002	3319	1411			
C26	4.913	0.002	2000	821			
C28	5.123	-0.002	818	466			
C32	5.542	0.003	1260	733			
C34	5.740	-0.002	2945	1275			
Filter Peak	6.050	-0.003	3835	2752			
C36	5.950	0.008	4471.0	1313	o-Terph Surrogate Rec = 98.4%		(886132)
C38	6.165	-0.001	3010.0	1198	Triacon Surrogate Rec = 0.1%		(401)
C40	6.450	-0.003	1150	464			
o-terph	4.083	0.016	1694380	886132	JET-A (C10-C18)	3172171	274
Triacon Surr	5.339	-0.002	783	401			

JK 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a034.d

Date : 14-AUG-2006 19:18

Client ID:

Sample Info: 250 PPM DIESEL

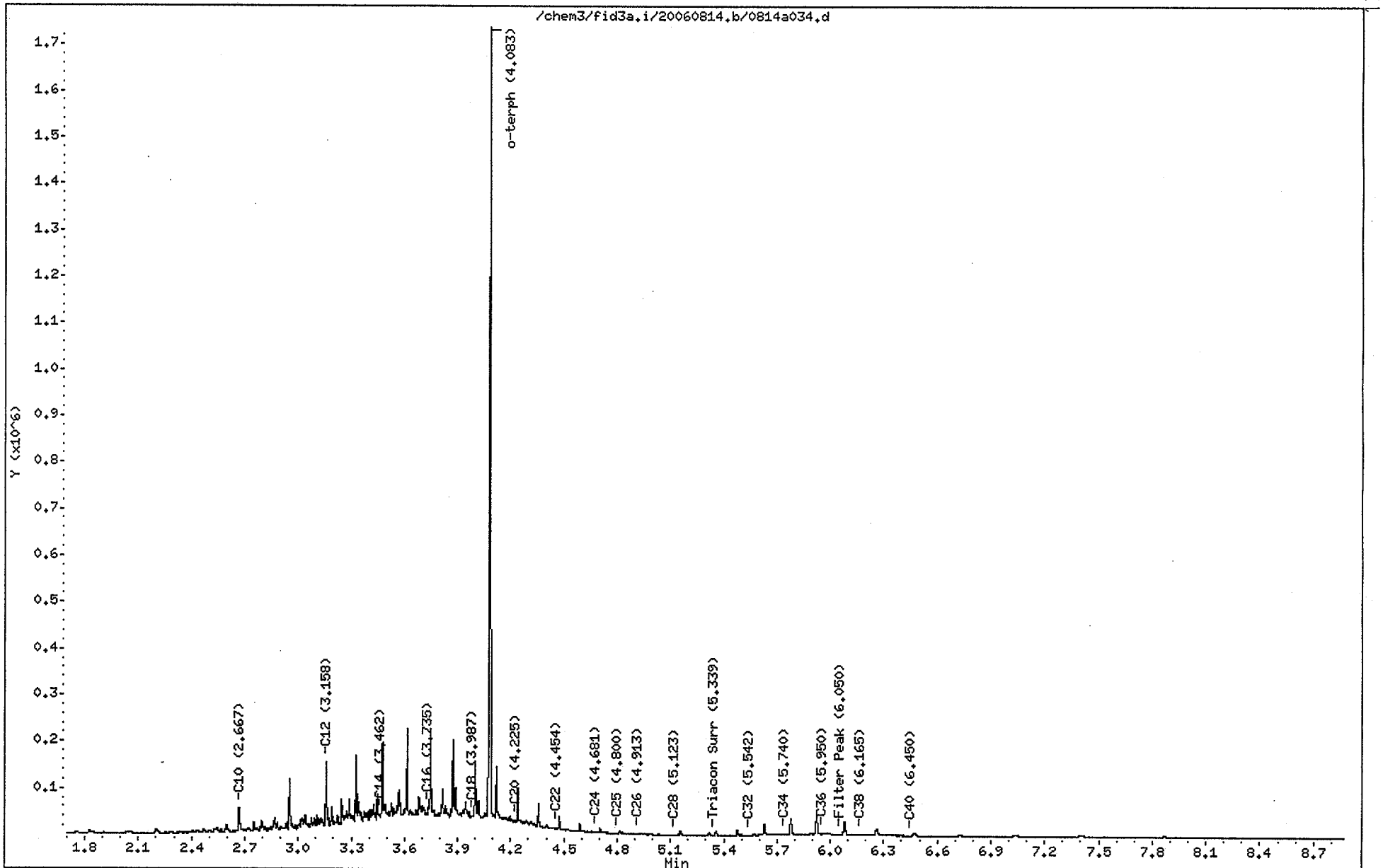
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1331



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a035.d
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/15/2006
Macro: 21-JUN-2006
ARI ID: 500 PPM DIESEL
Client ID:
Injection: 14-AUG-2006 19:33
Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.257	0.007	13721	13050	GAS (Tol-C12)	1557505	78
C8	1.446	0.015	8682	9789	DIESEL (C12-C24)	6630336	479
C10	2.672	0.017	117452	63160	M.OIL (C24-C38)	133041	14
C12	3.160	0.012	302588	134346	AK-102 (C10-C25)	7870148	477
C14	3.457	-0.006	71707	15443	AK-103 (C25-C36)	109243	17
C16	3.731	-0.003	102105	67120			
C18	3.994	0.008	276121	210098			
C20	4.227	0.000	205741	104819			
C22	4.467	0.006	23556	6068	STODDARD (C8-C12)	1510400	101
C24	4.689	0.000	10129	4985			
C25	4.804	0.002	5715	3957			
C26	4.924	0.013	2660	476			
C28	5.129	0.004	4437	3486			
C32	5.532	-0.008	40	14			
C34	5.739	-0.003	973	419			
Filter Peak	6.054	0.001	1663	945			
C36	5.948	0.006	1835.0	471	o-Terph Surrogate Rec = 200.2%		(1802346)
C38	6.166	0.000	1380.0	2010	Triacon Surrogate Rec = 0.2%		(1396)
C40	6.454	0.001	631	187			
o-terph	4.082	0.014	2211901	1802346	JET-A (C10-C18)	6104962	527
Triacon Surr	5.336	-0.005	1916	1396			

JR 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a035.d

Date : 14-AUG-2006 19:33

Client ID:

Sample Info: 500 PPM DIESEL

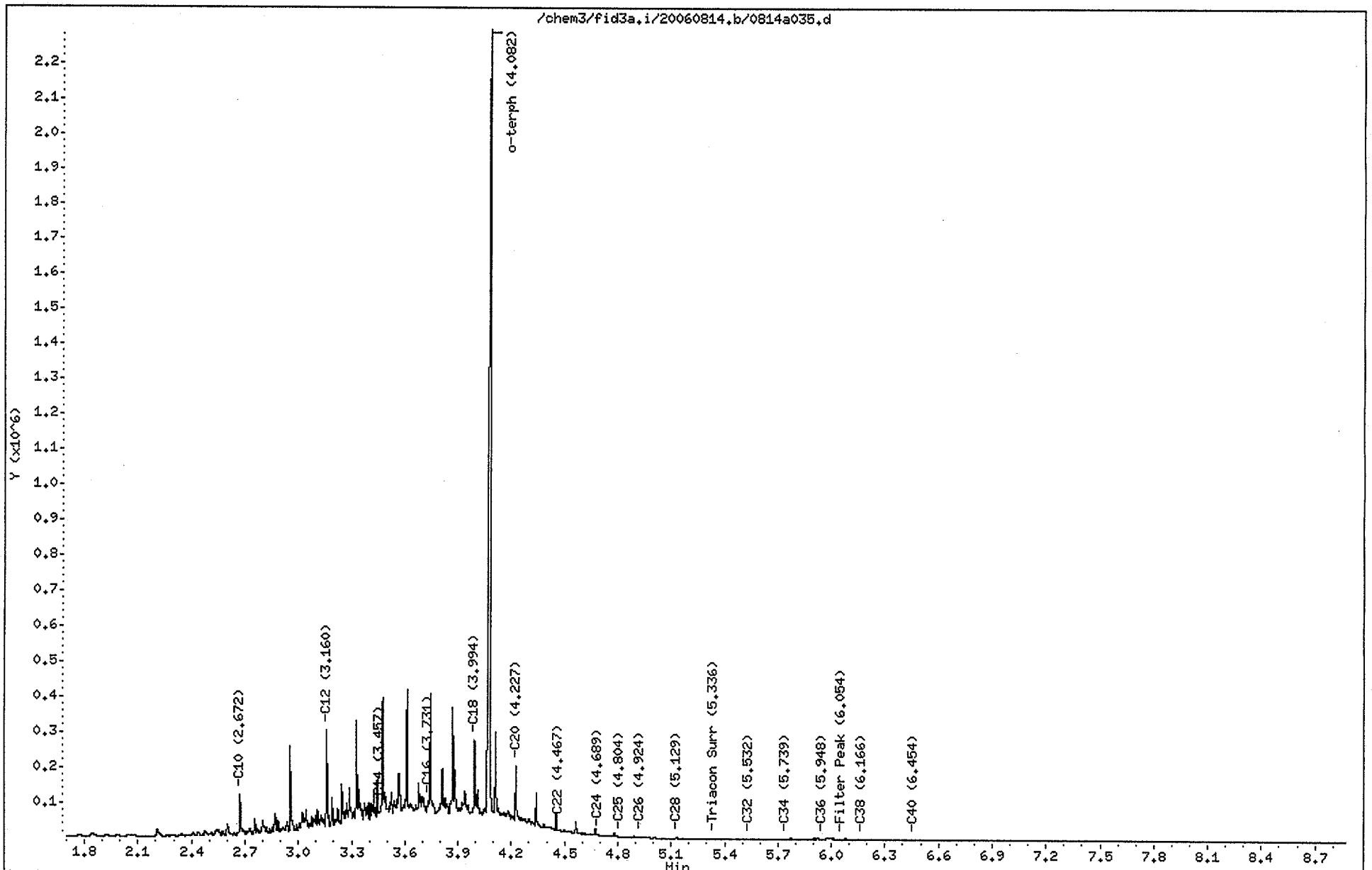
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1333



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a036.d
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 08/15/2006
Macro: 21-JUN-2006

ARI ID: 1000 PPM DIESEL
Client ID:
Injection: 14-AUG-2006 20:00

Dilution Factor: 1

Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.246	-0.004	14762	12125	GAS (Tol-C12)	3217954	161
C8	1.425	-0.006	12091	23127	DIESEL (C12-C24)	14075060	1016
C10	2.677	0.022	42637	28762	M.OIL (C24-C38)	322071	34
C12	3.154	0.006	622031	282309	AK-102 (C10-C25)	16657795	1009
C14	3.460	-0.004	185362	121457	AK-103 (C25-C36)	285584	45
C16	3.728	-0.006	201027	146099			
C18	3.979	-0.007	158718	61206			
C20	4.219	-0.008	127824	72900			
C22	4.461	0.000	157127	86713	STODDARD (C8-C12)	3148924	210
C24	4.686	-0.004	60740	51595			
C25	4.796	-0.006	33648	25141			
C26	4.905	-0.005	18277	16345			
C28	5.122	-0.003	4373	3575			
C32	5.542	0.003	698	240			
C34	5.745	0.003	1369	244			
Filter Peak	6.050	-0.003	2205	742			
C36	5.946	0.004	2561.0	1155	o-Terph Surrogate Rec = 418.2%	(3764673)	
C38	6.172	0.006	1539.0	897	Triacon Surrogate Rec = 0.6%	(4187)	
C40	6.449	-0.004	622	216			
o-terph	4.094	0.027	2891403	3764673	JET-A (C10-C18)	12902678	1114
Triacon Surr	5.339	-0.002	5919	4187			

JR 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a036.d

Date : 14-AUG-2006 20:00

Client ID:

Sample Info: 1000 PPM DIESEL

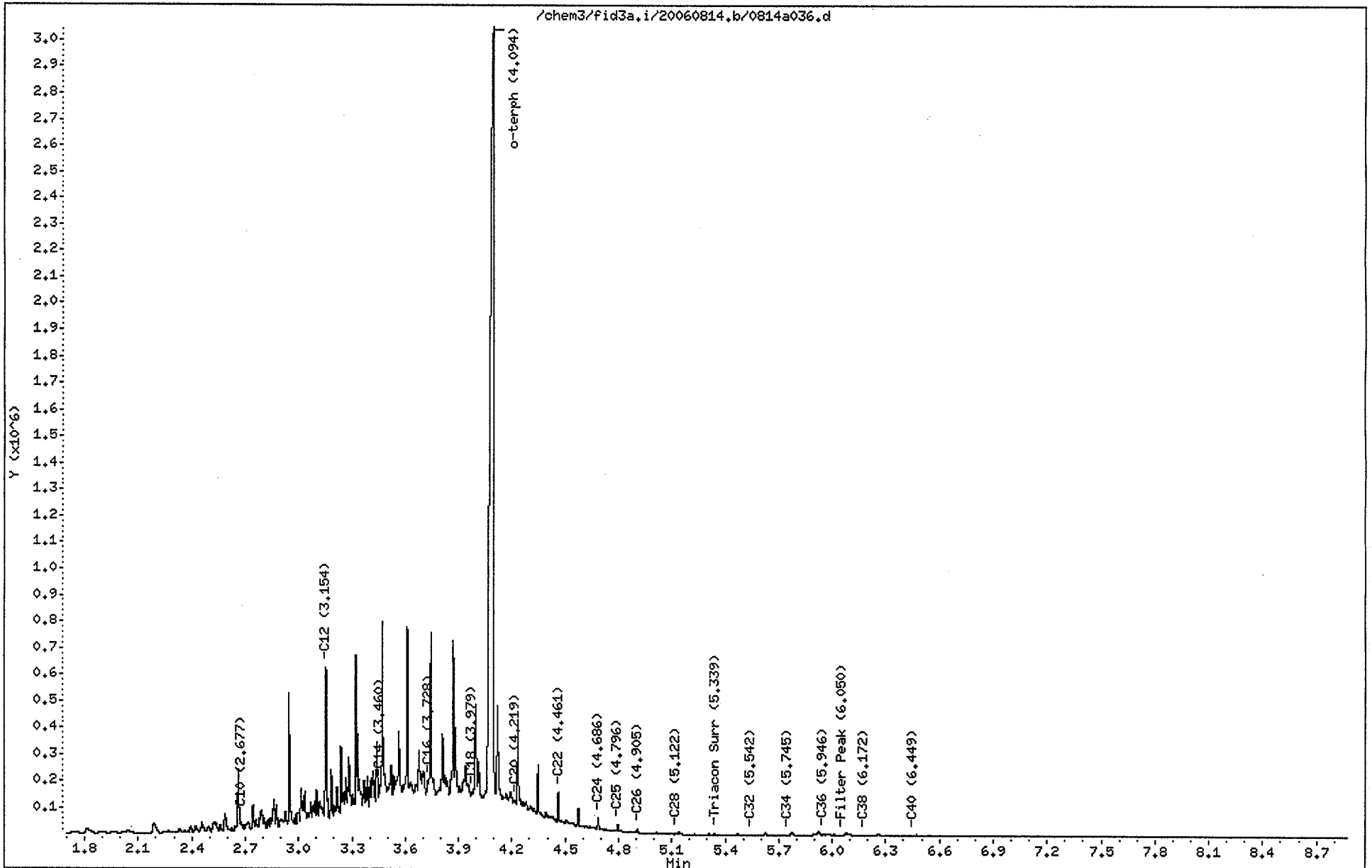
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1335



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a037.d ARI ID: 2500 PPM DIESEL
Method: /chem3/fid3a.i/20060814.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 14-AUG-2006 20:15
Operator: JR
Report Date: 08/15/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.255	0.004	60397	58848	GAS (Tol-C12)	7633145	382
C8	1.444	0.012	27859	23298	DIESEL (C12-C24)	33579990	2425
C10	2.679	0.023	138322	75212	M.OIL (C24-C38)	619873	66
C12	3.151	0.003	416878	149729	AK-102 (C10-C25)	39767172	2410
C14	3.461	-0.003	437979	288226	AK-103 (C25-C36)	569178	90
C16	3.733	-0.001	461474	310042			
C18	3.990	0.003	360855	43117			
C20	4.154	-0.073	2280208	13067360			
C22	4.466	0.004	178821	31774	STODDARD (C8-C12)	7482027	498
C24	4.691	0.001	101862	166177			
C25	4.792	-0.010	61749	89022			
C26	4.895	-0.016	35596	55286			
C28	5.125	-0.001	27773	18359			
C32	5.541	0.001	2148	2508			
C34	5.735	-0.008	1548	824			
Filter Peak	6.049	-0.004	2038	1492			
C36	5.945	0.003	3680.0	4901	o-Terph Surrogate Rec = 966.2%		(8697619)
C38	6.170	0.004	1429.0	589	Triacon Surrogate Rec = 0.1%		(969)
C40	6.459	0.006	501	314			
o-terph	4.154	0.086	1891620	8697619	JET-A (C10-C18)	30049255	2595
Triacon Surr	5.346	0.005	2189	969			

JR 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a037.d

Date : 14-AUG-2006 20:15

Client ID:

Sample Info: 2500 PPM DIESEL

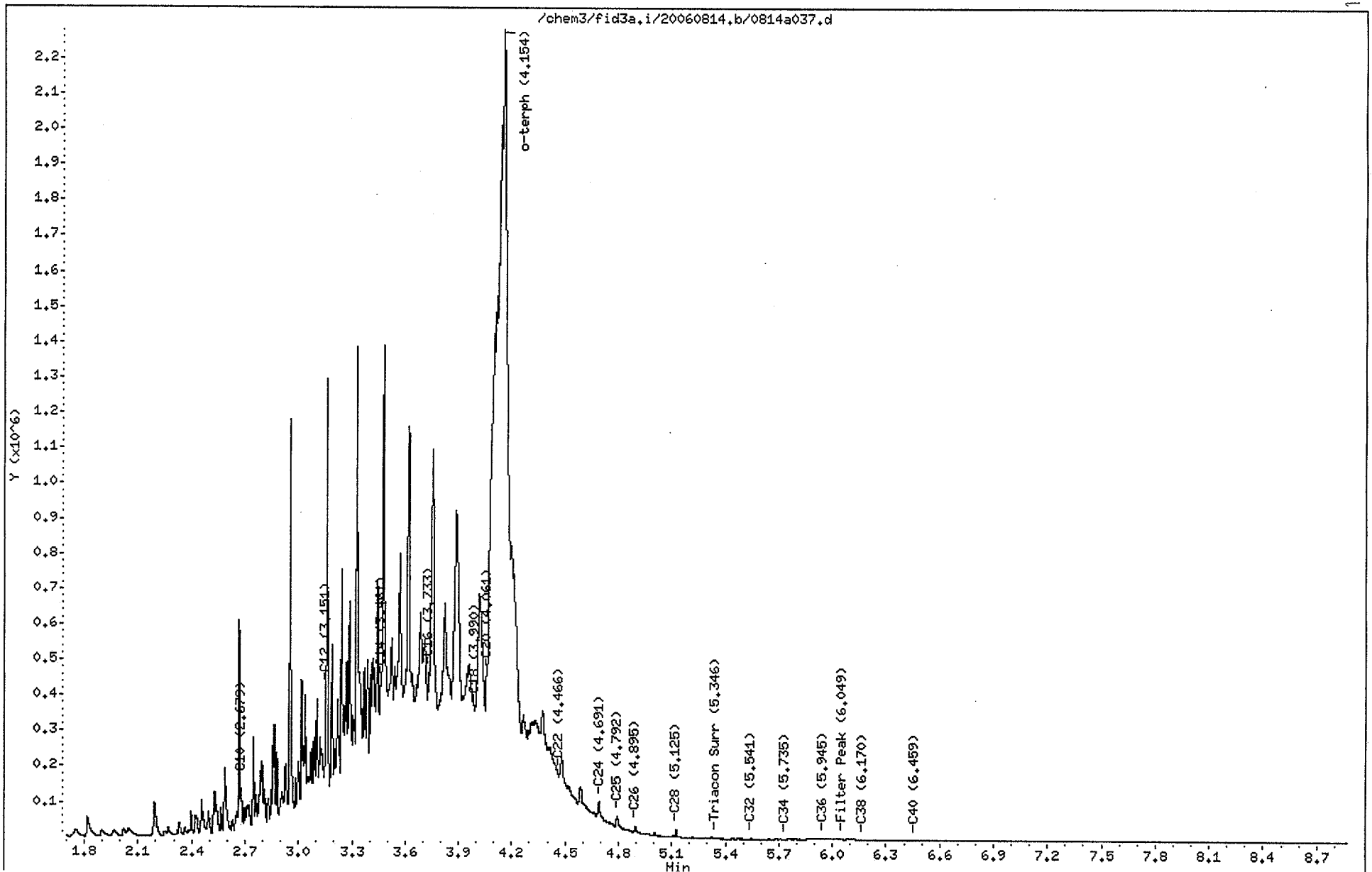
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1337



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a003.d ARI ID: RT
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 11:14
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.255	0.000	369380	487989	GAS (Tol-C12)	1148500	71
C8	1.440	0.000	144230	129919	DIESEL (C12-C24)	1368316	99
C10	2.662	0.000	450634	213223	M.OIL (C24-C38)	1425242	151
C12	3.147	0.000	420800	213082	AK-102 (C10-C25)	1813108	110
C14	3.459	0.000	393078	209570	AK-103 (C25-C36)	1324119	209
C16	3.721	0.000	479433	219276			
C18	3.961	0.000	564374	222596			
C20	4.189	0.000	546602	222644			
C22	4.411	0.000	525667	223288	STODDARD (C8-C12)	660510	44
C24	4.628	0.000	506302	223791			
C25	4.735	0.000	646404	315489			
C26	4.840	0.000	479808	224056			
C28	5.056	0.000	420355	223862			
C32	5.490	0.000	364742	205730			
C34	5.701	0.000	315871	177667			
Filter Peak	6.223	0.000	1054	1281			
C36	5.905	0.000	245542.0	141961	o-Terph Surrogate Rec = 91.0%		(744937)
C38	6.126	0.000	122779.0	92912	Triacon Surrogate Rec = 93.4%		(642166)
C40	6.408	0.000	55959	60448			
o-terph	4.040	0.000	1477132	744937	JET-A (C10-C18)	1130809	98
Triacon Surr	5.281	0.000	899133	642166			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

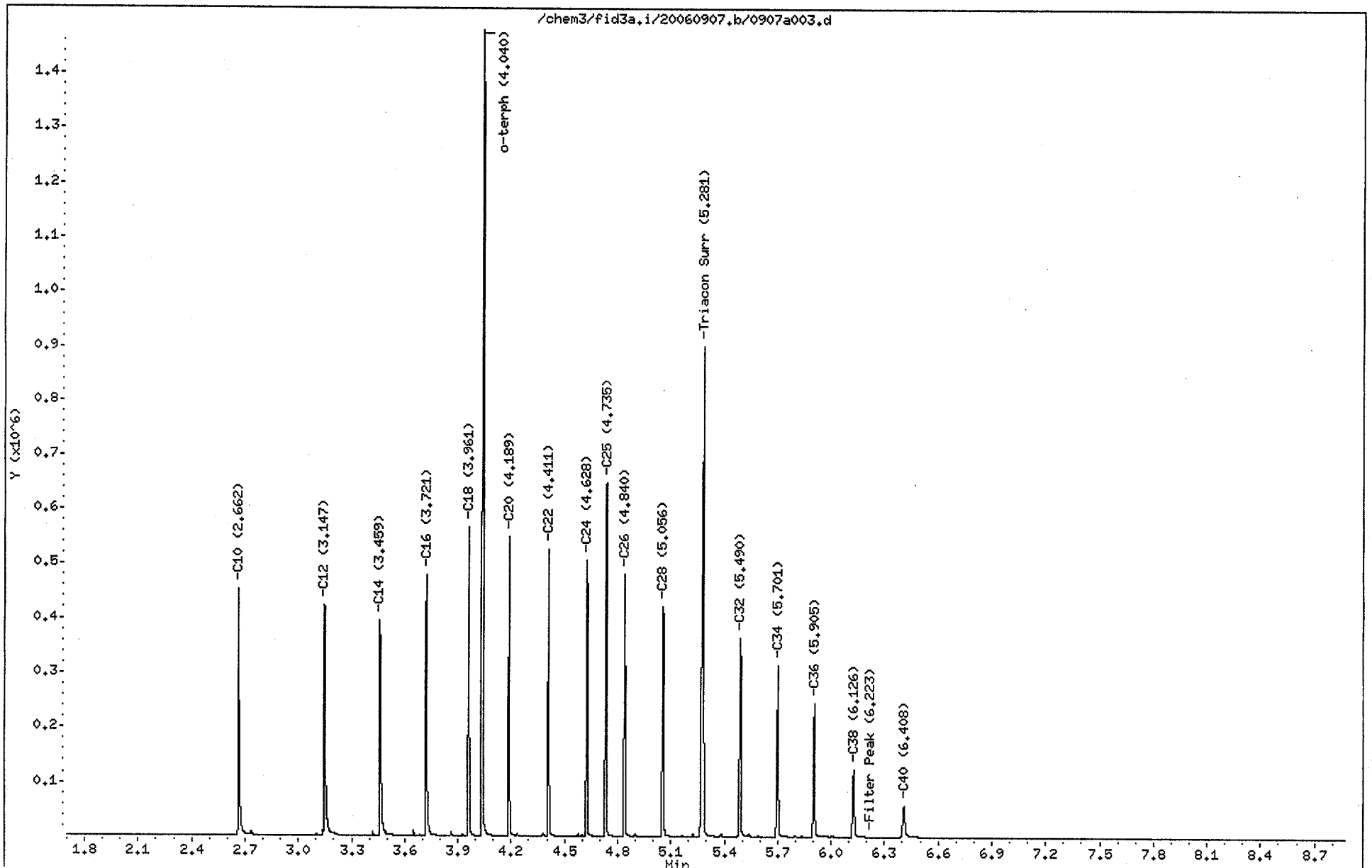
Data File: /chem3/fid3a.i/20060907.b/0907a003.d
Date : 07-SEP-2006 11:14
Client ID:
Sample Info: RT

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1339



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a004.d
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 09/08/2006
Macro: 21-JUN-2006
ARI ID: IB
Client ID:
Injection: 07-SEP-2006 11:29
Dilution Factor: 1

Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	22943	1
C8	1.446	0.006	1156	490	DIESEL (C12-C24)	31596	2
C10	2.661	-0.001	48	9	M.OIL (C24-C38)	43147	5
C12	3.142	-0.005	3645	2780	AK-102 (C10-C25)	40755	2
C14	3.463	0.004	375	293	AK-103 (C25-C36)	36421	6
C16	3.721	0.001	581	562			
C18	3.964	0.003	928	775			
C20	4.194	0.005	644	560			
C22	4.403	-0.008	241	91	STODDARD (C8-C12)	22943	2
C24	4.623	-0.004	690	601			
C25	4.736	0.000	186	83			
C26	4.835	-0.005	185	42			
C28	5.063	0.008	2146	1106			
C32	5.481	-0.009	514	160			
C34	5.697	-0.003	2013	1349			
Filter Peak	6.225	0.002	581	217			
C36	5.906	0.001	521.0	194	o-Terph Surrogate Rec = 87.5%		(716568)
C38	6.130	0.004	569.0	203	Triacon Surrogate Rec = 88.7%		(609853)
C40	6.412	0.004	495	68			
o-terph	4.041	0.001	1438940	716568	JET-A (C10-C18)	29444	3
Triacon Surr	5.289	0.008	822789	609853			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

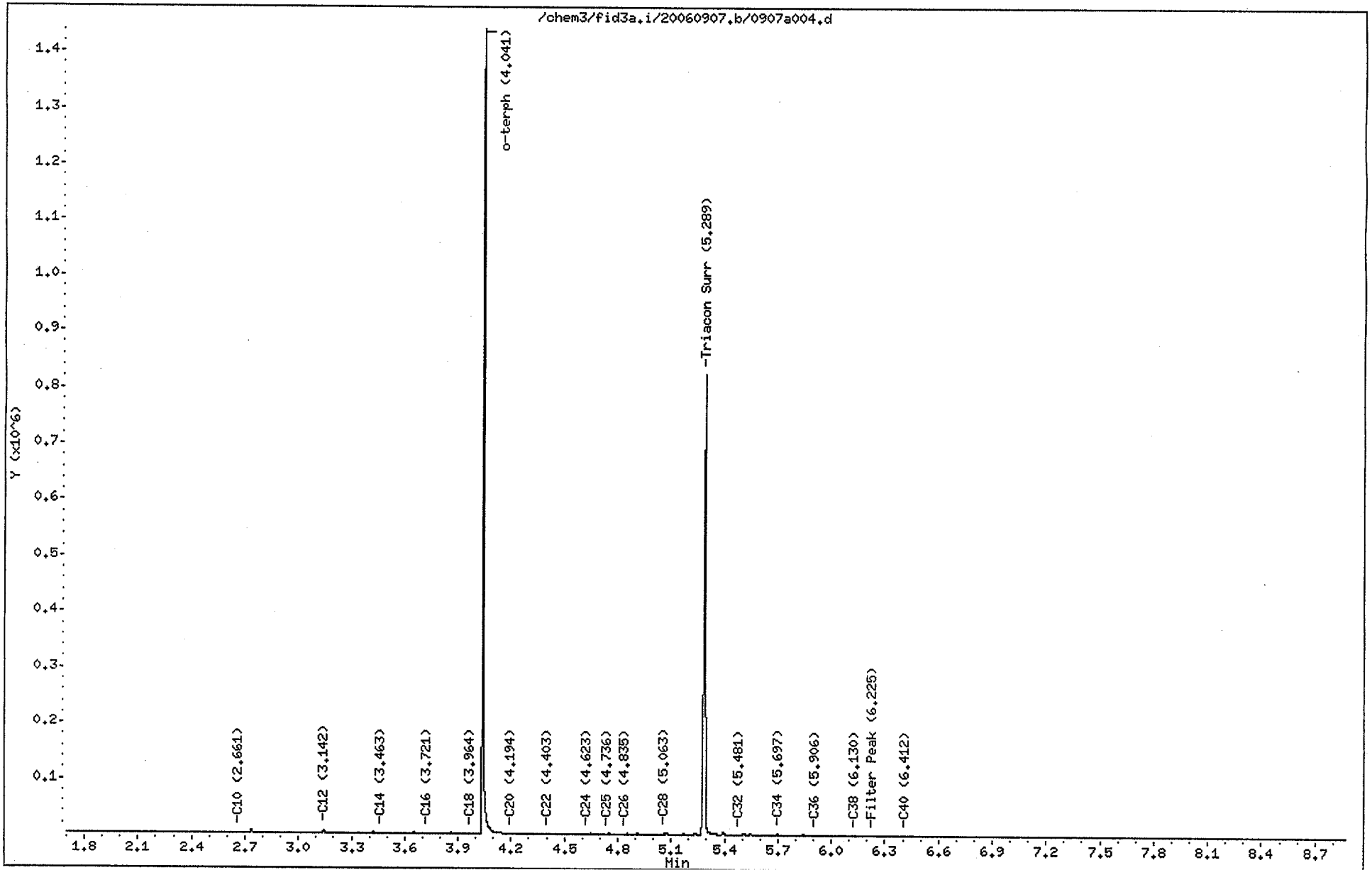
Data File: /chem3/fid3a.i/20060907.b/0907a004.d
Date : 07-SEP-2006 11:29
Client ID:
Sample Info: IB

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1341



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENV

ICal Date: 14-AUG-2006 Project: EARLY ACTION

CCal Date: 07-SEP-2006 SDG No.: JU43

Analysis Time: 11:45 Lab ID: DIESEL#1

Instrument: FID3A.I Lab File Name: 0907a005.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3094337	223.4	250	-10.6
AK102 (C10-C25)	3673365	222.6	250	-11.0
Terphenyl	751007	41.3	45	-8.3

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a005.d
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 09/08/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#1
Client ID:
Injection: 07-SEP-2006 11:45
Dilution Factor: 1

Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.268	0.013	8085	15909	GAS (Tol-C12)	725797	45
C8	1.445	0.004	2206	2305	DIESEL (C12-C24)	3094337	223
C10	2.659	-0.003	4487	3177	M.OIL (C24-C38)	61939	7
C12	3.150	0.003	130609	59579	AK-102 (C10-C25)	3673365	223
C14	3.457	-0.002	176440	79662	AK-103 (C25-C36)	58539	9
C16	3.720	-0.001	201328	115381			
C18	3.961	0.000	143852	89466			
C20	4.191	0.002	94294	63384			
C22	4.414	0.004	35107	27059	STODDARD (C8-C12)	702160	47
C24	4.634	0.006	11211	12470			
C25	4.748	0.013	8281	10517			
C26	4.852	0.012	2712	4857			
C28	5.044	-0.011	611	570			
C32	5.490	0.001	162	90			
C34	5.693	-0.008	2815	1584			
Filter Peak	6.217	-0.006	311	91			
C36	5.901	-0.004	164.0	70	o-Terph Surrogate Rec = 91.7%		(751007)
C38	6.130	0.004	278.0	71	Triacon Surrogate Rec = 0.5%		(3740)
C40	6.402	-0.006	265	117			
o-terph	4.042	0.003	1503000	751007	JET-A (C10-C18)	2852005	246
Triacon Surr	5.285	0.004	3326	3740			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

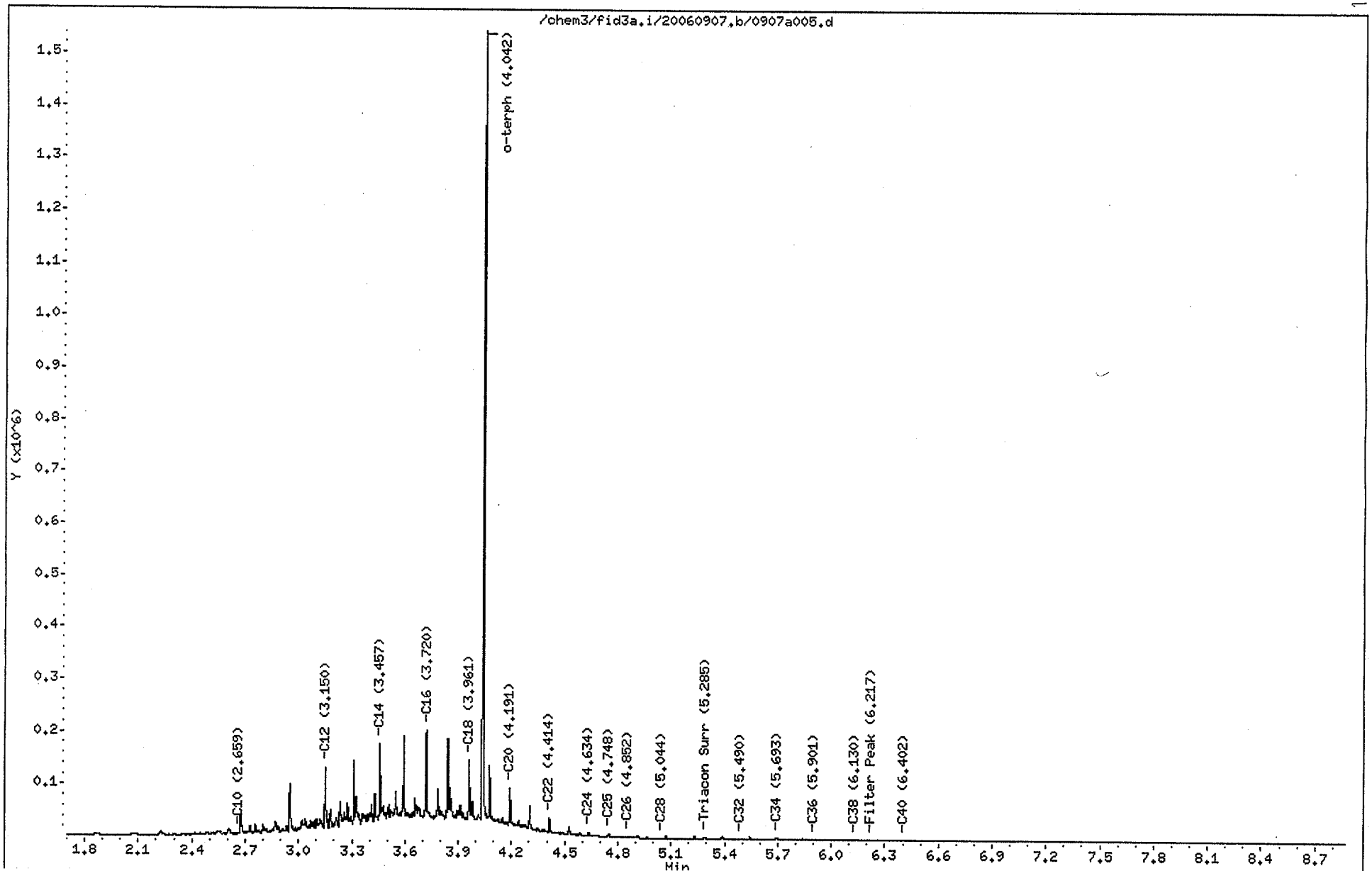
Data File: /chem3/fid3a.i/20060907.b/0907a005.d
Date : 07-SEP-2006 11:45
Client ID:
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1344



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENV

ICal Date: 15-JUL-2006 Project: EARLY ACTION

CCal Date: 07-SEP-2006 SDG No.: JU43

Analysis Time: 12:00 Lab ID: MOIL#1

Instrument: FID3A.I Lab File Name: 0907a006.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	4468200	473.7	500	-5.3	
AK103 (C25-C36)	4042078	636.6	500	27.3	<-
n-Triacontane	738705	48.4	45	7.5	

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a006.d
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 09/08/2006
Macro: 21-JUN-2006
ARI ID: MOIL#1
Client ID:
Injection: 07-SEP-2006 12:00
Dilution Factor: 1

Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	25696	2
C8	1.453	0.012	1110	615	DIESEL (C12-C24)	564175	41
C10	2.667	0.004	74	50	M.OIL (C24-C38)	4468200	474
C12	3.143	-0.004	3561	2637	AK-102 (C10-C25)	583796	35
C14	3.459	0.000	208	141	AK-103 (C25-C36)	4042078	637
C16	3.717	-0.004	403	369			
C18	3.969	0.008	1057	395			
C20	4.178	-0.011	3819	2953			
C22	4.415	0.004	15471	13178	STODDARD (C8-C12)	25696	2
C24	4.631	0.003	31557	24780			
C25	4.735	-0.001	37415	8163			
C26	4.841	0.000	43031	16976			
C28	5.055	-0.001	50989	8125			
C32	5.486	-0.004	62828	32251			
C34	5.701	0.000	60580	9668			
Filter Peak	6.222	-0.001	23655	15776			
C36	5.904	-0.001	51825.0	35014	o-Terph Surrogate Rec = 0.8%		(6566)
C38	6.127	0.000	31303.0	22660	Triacon Surrogate Rec = 107.5%		(738705)
C40	6.411	0.003	14357	8974			
o-terph	4.041	0.001	8049	6566	JET-A (C10-C18)	42560	4
Triacon Surr	5.290	0.008	855605	738705			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

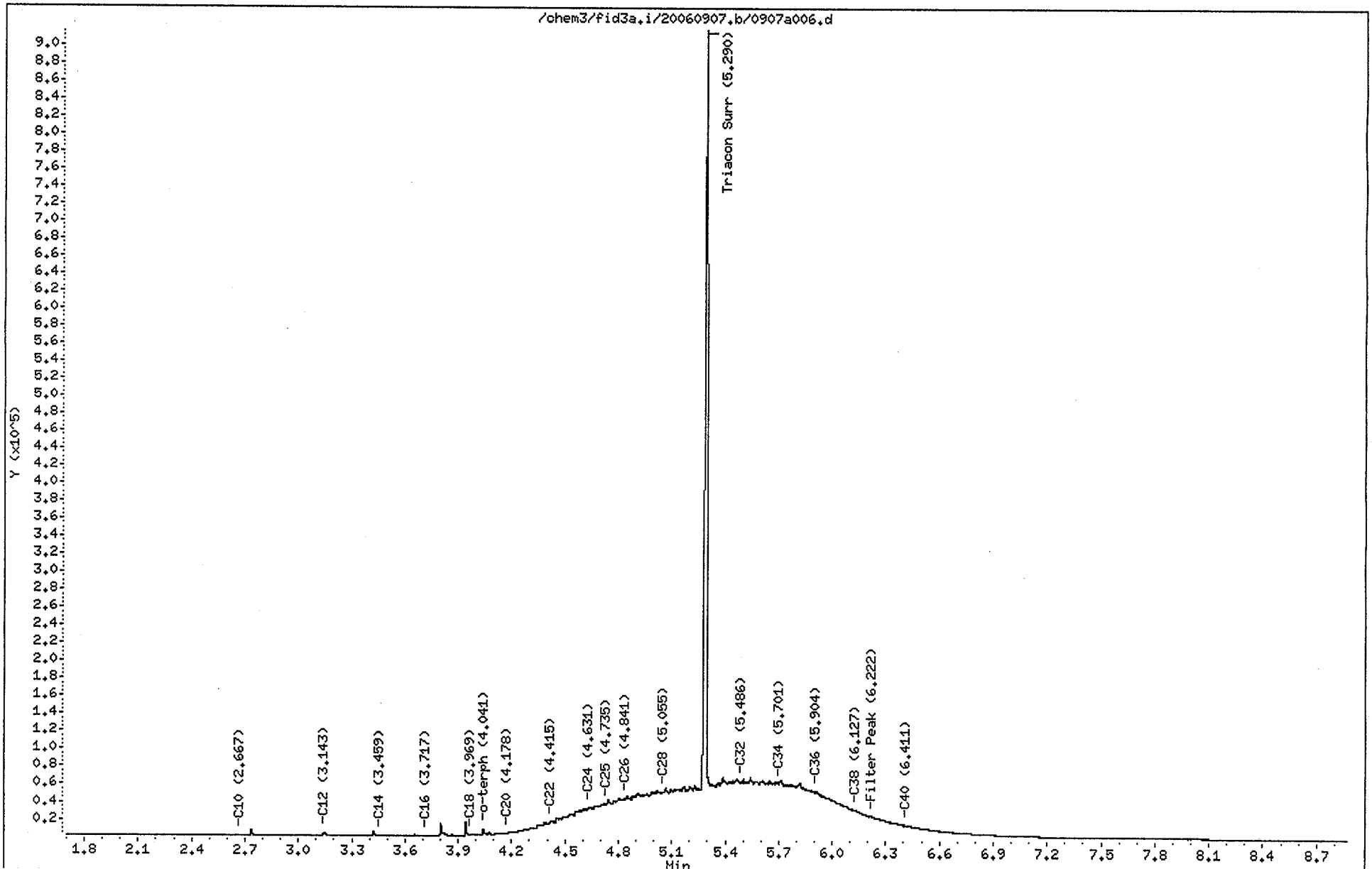
Data File: /chem3/fid3a.i/20060907.b/0907a006.d
Date : 07-SEP-2006 12:00
Client ID:
Sample Info: MOIL#1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1347



7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENV

ICal Date: 14-AUG-2006 Project: EARLY ACTION

CCal Date: 07-SEP-2006 SDG No.: JU43

Analysis Time: 14:52 Lab ID: DIESEL#2

Instrument: FID3A.I Lab File Name: 0907a017.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	3083644	222.6	250	-10.9
AK102 (C10-C25)	3683541	223.2	250	-10.7
Terphenyl	760870	41.8	45	-7.1

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a017.d
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m
Instrument: fid3a.i
Operator: JR
Report Date: 09/08/2006
Macro: 21-JUN-2006
ARI ID: DIESEL#2
Client ID:
Injection: 07-SEP-2006 14:52
Dilution Factor: 1

Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.257	0.002	9773	16201	GAS (Tol-C12)	754226	46
C8	1.449	0.009	3465	5770	DIESEL (C12-C24)	3083644	223
C10	2.656	-0.007	4543	3217	M.OIL (C24-C38)	85062	9
C12	3.148	0.002	136592	58789	AK-102 (C10-C25)	3683541	223
C14	3.457	-0.002	177381	81685	AK-103 (C25-C36)	73543	12
C16	3.721	0.000	197820	96515			
C18	3.966	0.005	142468	89344			
C20	4.187	-0.002	26864	15969			
C22	4.410	0.000	13102	10658	STODDARD (C8-C12)	715413	48
C24	4.630	0.002	6245	8712			
C25	4.725	-0.010	3658	3920			
C26	4.834	-0.006	2342	3244			
C28	5.061	0.006	731	826			
C32	5.486	-0.004	195	124			
C34	5.703	0.003	3572	2730			
Filter Peak	6.224	0.001	690	651			
C36	5.902	-0.003	533.0	94	o-Terph Surrogate Rec = 92.9%		(760870)
C38	6.123	-0.003	695.0	328	Triacon Surrogate Rec = 0.7%		(4817)
C40	6.410	0.002	567	145			
o-terph	4.048	0.008	1455734	760870	JET-A (C10-C18)	2881562	249
Triacon Surr	5.299	0.018	5858	4817			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

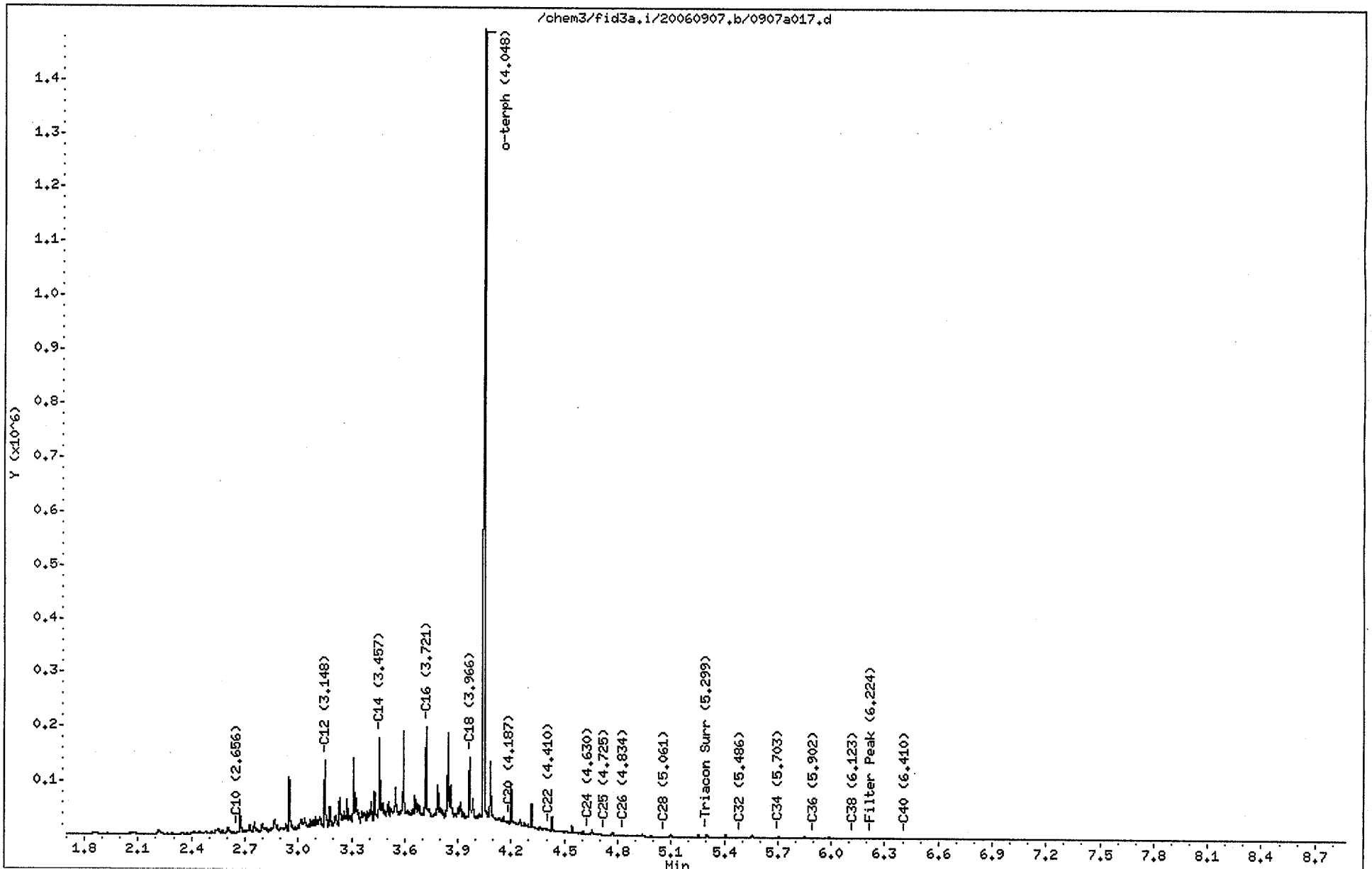
Data File: /chem3/fid3a.i/20060907.b/0907a017.d
Date : 07-SEP-2006 14:52
Client ID:
Sample Info: DIESEL#2

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

1350



7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENV

ICal Date: 15-JUL-2006 Project: T4 EARLY ACTION

CCal Date: 07-SEP-2006 SDG No.: JU43

Analysis Time: 15:08 Lab ID: MOIL#2

Instrument: FID3A.I Lab File Name: 0907a018.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil(C24-C38)	4661458	494.2	500	-1.2	
AK103 (C25-C36)	4187024	659.5	500	31.9	<-
n-Triacontane	768759	50.3	45	11.8	

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a018.d ARI ID: MOIL#2
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 15:08
Operator: JR
Report Date: 09/11/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	24955	2
C8	1.448	0.008	1162	230	DIESEL (C12-C24)	544978	39
C10	2.659	-0.004	59	32	M.OIL (C24-C38)	4661458	494
C12	3.142	-0.005	3831	3071	AK-102 (C10-C25)	555398	34
C14	3.458	-0.001	237	77	AK-103 (C25-C36)	4187024	659
C16	3.719	-0.002	439	374			
C18	3.949	-0.012	16062	8497			
C20	4.190	0.002	3853	2798			
C22	4.414	0.003	14649	10669	STODDARD (C8-C12)	24955	2
C24	4.626	-0.002	30112	15811			
C25	4.736	0.000	35759	7090			
C26	4.846	0.006	42759	23559			
C28	5.059	0.003	53360	7415			
C32	5.488	-0.001	66081	26189			
C34	5.695	-0.005	67537	56413			
Filter Peak	6.223	0.000	23539	10275			
C36	5.907	0.002	54539.0	10844	o-Terph Surrogate Rec = 0.2% (1327)		
C38	6.127	0.001	31316.0	10539	Triacon Surrogate Rec = 111.8% (768759)		
C40	6.400	-0.008	14829	14535			
o-terph	4.034	-0.006	1401	1327	JET-A (C10-C18)	45522	4
Triacon Surr	5.305	0.024	961094	768759			

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

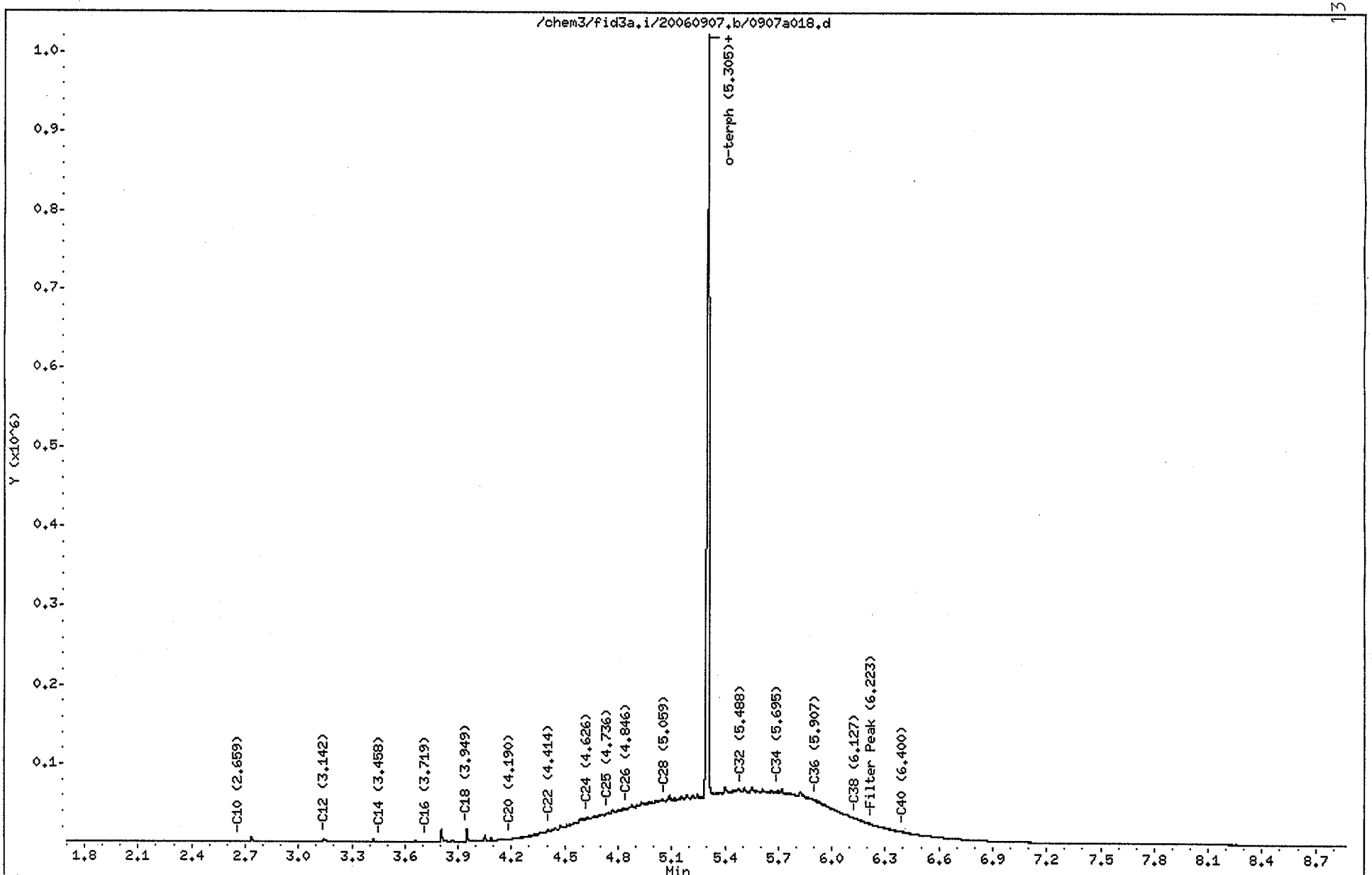
Data File: /chem3/fid3a.i/20060907.b/0907a018.d
Date : 07-SEP-2006 15:08
Client ID:
Sample Info: MOIL#2

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1353



NWTPH-Dx Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a007.d ARI ID: JU43MBS1
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 12:16
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.010	15747	51935	GAS (Tol-C12)	129606	8
C8	1.446	0.006	1683	3319	DIESEL (C12-C24)	14831	1
C10	2.660	-0.002	278	249	M.OIL (C24-C38)	21184	2
C12	3.140	-0.006	226	94	AK-102 (C10-C25)	20885	1
C14	3.457	-0.002	251	97	AK-103 (C25-C36)	16106	3
C16	3.721	0.001	401	298			
C18	3.963	0.002	182	130			
C20	4.175	-0.013	858	1213			
C22	4.405	-0.006	165	111	STODDARD (C8-C12)	34597	2
C24	4.624	-0.003	166	171			
C25	4.743	0.008	106	41			
C26	4.846	0.006	55	11			
C28	5.061	0.006	411	238			
C32	5.490	0.000	387	309			
C34	5.698	-0.003	350	399			
Filter Peak	6.227	0.004	521	285			
C36	5.901	-0.004	393.0	202	o-Terph Surrogate Rec = 64.5%		(527783)
C38	6.126	-0.001	511.0	90	Triacon Surrogate Rec = 65.7%		(451607)
C40	6.411	0.003	488	86			
o-terph	4.038	-0.001	1091019	527783	JET-A (C10-C18)	15272	1
Triacon Surr	5.284	0.003	674664	451607			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

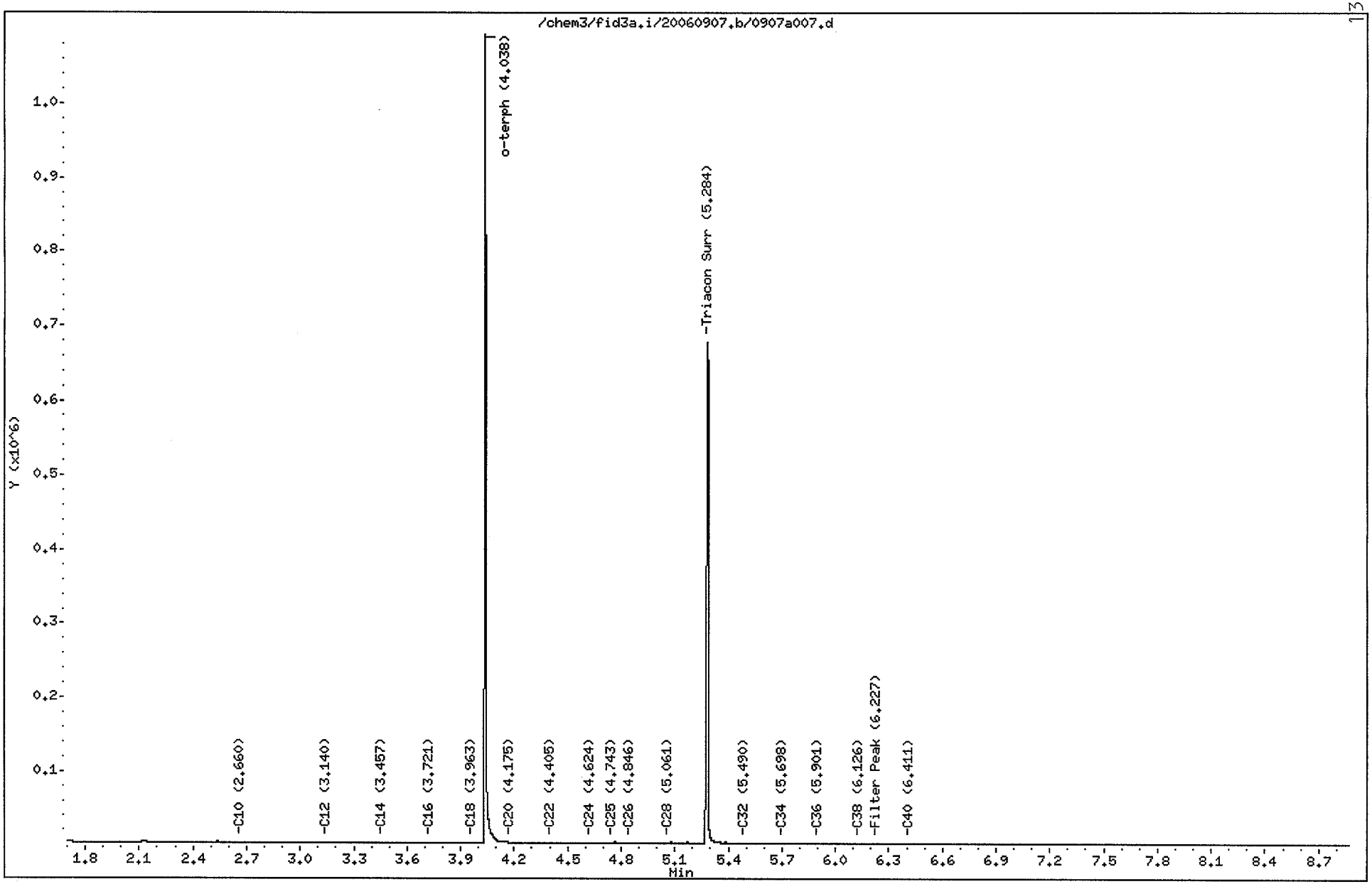
Data File: /chem3/fid3a.i/20060907.b/0907a007.d
Date : 07-SEP-2006 12:16
Client ID:
Sample Info: JU43MBS1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

Column phase: RTX-1

1356



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a010.d ARI ID: JU43JMS
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 13:03
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.260	0.005	22931	14946	GAS (Tol-C12)	2967949	182
C8	1.445	0.005	6904	14381	DIESEL (C12-C24)	15327016	1107
C10	2.660	-0.002	26830	9430	M.OIL (C24-C38)	2504419	266
C12	3.147	0.000	573005	257442	AK-102 (C10-C25)	17758596	1076
C14	3.457	-0.002	761273	563220	AK-103 (C25-C36)	2360574	372
C16	3.723	0.002	758451	443138			
C18	3.954	-0.007	186729	90940			
C20	4.186	-0.003	181260	112705			
C22	4.406	-0.005	88365	65913	STODDARD (C8-C12)	2883547	192
C24	4.626	-0.002	53534	15692			
C25	4.730	-0.005	59876	53109			
C26	4.843	0.003	39661	7102			
C28	5.047	-0.009	44599	43506			
C32	5.494	0.004	27756	40171			
C34	5.703	0.002	25544	33348			
Filter Peak	6.229	0.007	5971	1405			
C36	5.911	0.006	14247.0	4240	o-Terph Surrogate Rec = 70.5%		(576847)
C38	6.123	-0.003	8141.0	5712	Triacon Surrogate Rec = 68.9%		(473834)
C40	6.408	0.000	4250	4378			
o-terph	4.045	0.006	1057998	576847	JET-A (C10-C18)	12817487	1107
Triacon Surr	5.290	0.009	713953	473834			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

Data File: /chem3/fid3a.i/20060907.b/0907a010.d

Date : 07-SEP-2006 13:03

Client ID:

Sample Info: JU43JMS

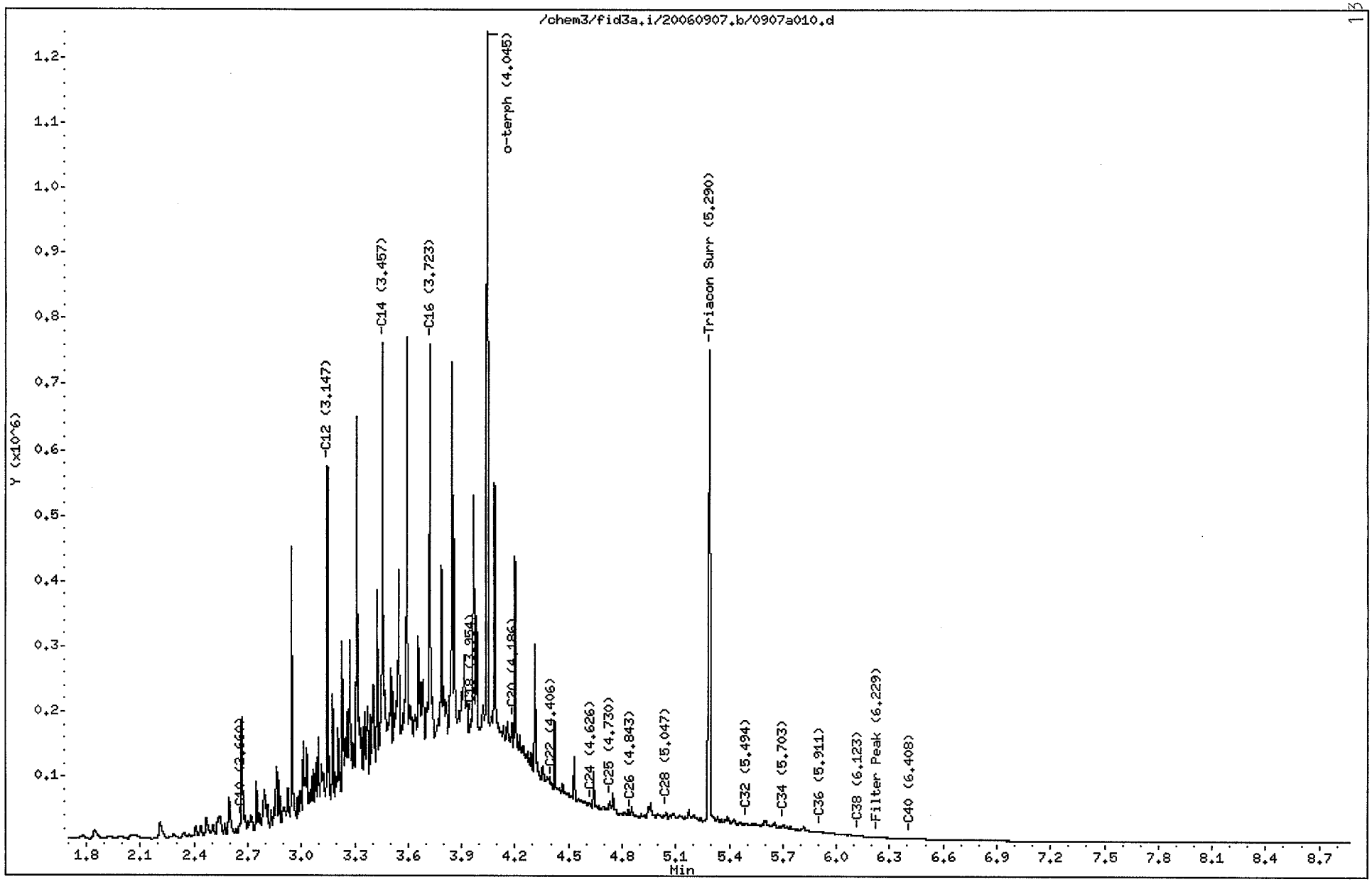
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1358



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a011.d ARI ID: JU43JMSD
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 13:18
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.010	23646	42944	GAS (Tol-C12)	2803107	172
C8	1.450	0.010	7424	14016	DIESEL (C12-C24)	14118958	1019
C10	2.666	0.003	192523	98322	M.OIL (C24-C38)	1886678	200
C12	3.146	0.000	526855	242117	AK-102 (C10-C25)	16390391	993
C14	3.457	-0.002	741952	527893	AK-103 (C25-C36)	1772055	279
C16	3.723	0.003	747340	435690			
C18	3.955	-0.006	168036	69460			
C20	4.188	-0.001	153070	90448			
C22	4.410	-0.001	75741	57749	STODDARD (C8-C12)	2718886	181
C24	4.619	-0.009	52945	68481			
C25	4.736	0.001	39417	30006			
C26	4.839	-0.001	30502	14838			
C28	5.050	-0.006	28403	16076			
C32	5.486	-0.004	19703	7794			
C34	5.706	0.006	18483	23544			
Filter Peak	6.220	-0.003	4892	1741			
C36	5.898	-0.007	11699.0	10204	o-Terph Surrogate Rec = 68.8%		(563415)
C38	6.120	-0.007	6592.0	6716	Triacon Surrogate Rec = 68.0%		(467746)
C40	6.411	0.003	3012	1711			
o-terph	4.047	0.007	1058646	563415	JET-A (C10-C18)	12021832	1038
Triacon Surr	5.294	0.013	718628	467746			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

Data File: /chem3/fid3a.i/20060907.b/0907a011.d

Date : 07-SEP-2006 13:18

Client ID:

Sample Info: JU43JMSD

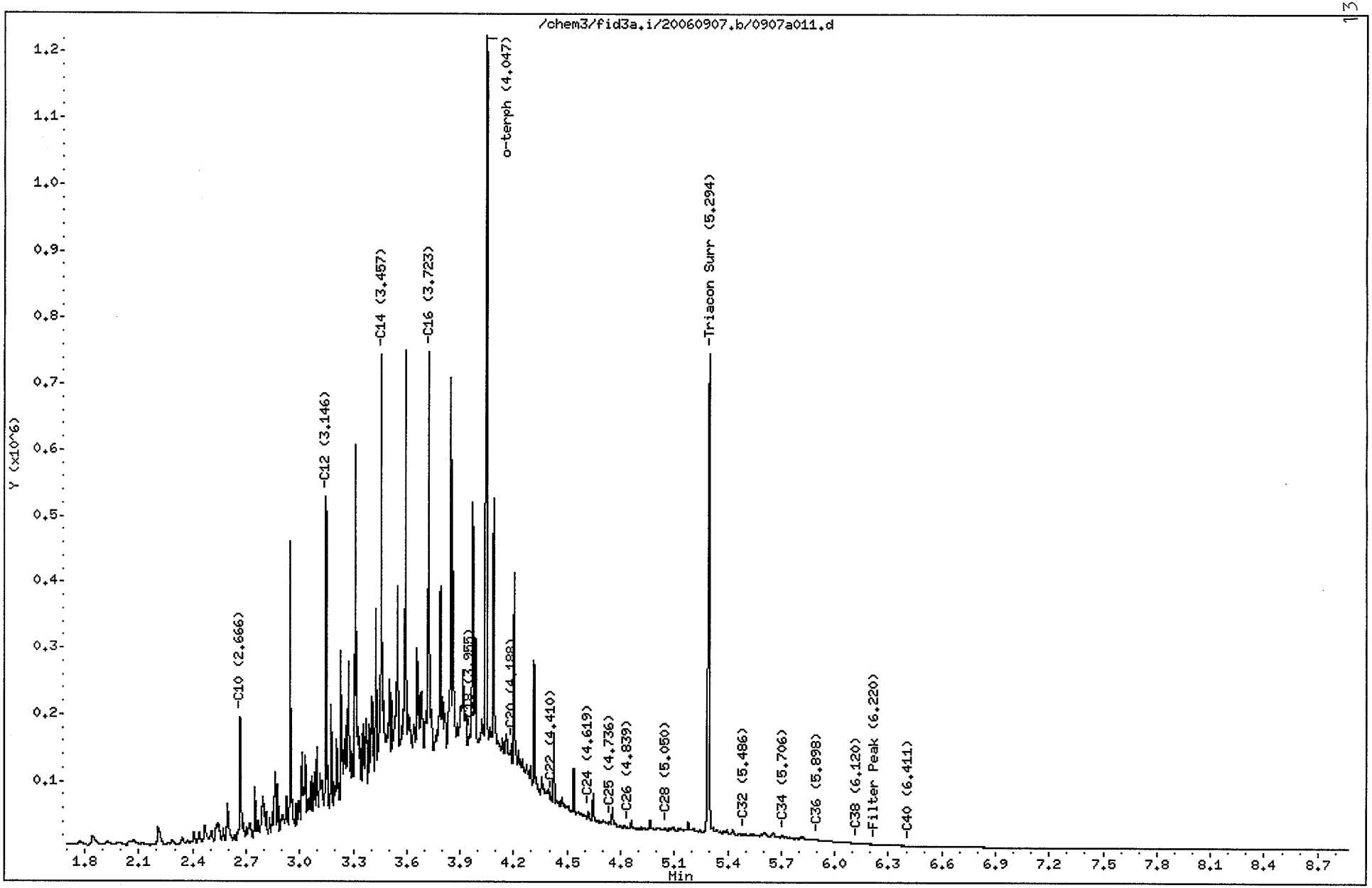
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1360



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060907.b/0907a008.d ARI ID: JU43LCSS1
Method: /chem3/fid3a.i/20060907.b/ftphfid3a.m Client ID:
Instrument: fid3a.i Injection: 07-SEP-2006 12:31
Operator: JR
Report Date: 09/08/2006 Dilution Factor: 1
Macro: 21-JUN-2006
Calibration Dates: Gas:30-AUG-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.259	0.004	21526	33973	GAS (Tol-C12)	2744645	169
C8	1.445	0.004	8079	12218	DIESEL (C12-C24)	13161284	950
C10	2.664	0.002	192324	105021	M.OIL (C24-C38)	210152	22
C12	3.146	-0.001	533947	241682	AK-102 (C10-C25)	15375337	932
C14	3.456	-0.003	725182	435551	AK-103 (C25-C36)	203877	32
C16	3.721	0.000	768988	434149			
C18	3.964	0.003	531180	358369			
C20	4.191	0.002	416285	302567			
C22	4.409	-0.002	156687	93911	STODDARD (C8-C12)	2651317	177
C24	4.624	-0.004	60955	55250			
C25	4.730	-0.006	34193	28998			
C26	4.836	-0.004	17249	22349			
C28	5.052	-0.004	4559	3244			
C32	5.486	-0.004	389	139			
C34	5.695	-0.006	203	189			
Filter Peak	6.223	0.000	281	156			
C36	5.911	0.005	183.0	42	o-Terph Surrogate Rec = 73.0%		(597378)
C38	6.123	-0.004	280.0	141	Triacon Surrogate Rec = 73.9%		(508008)
C40	6.412	0.004	254	114			
o-terph	4.040	0.000	1101287	597378	JET-A (C10-C18)	11711870	1011
Triacon Surr	5.279	-0.002	741714	508008			

JR 09/08/06

Range Times: NW Diesel(3.147 - 4.628) AK102(2.66 - 4.74) Jet A(2.66 - 3.96)
NW M.Oil(4.63 - 6.13) AK103(4.74 - 5.91) OR Diesel(2.66 - 5.06)

Data File: /chem3/fid3a.i/20060907.b/0907a008.d

Date : 07-SEP-2006 12:31

Client ID:

Sample Info: JU43LCSS1

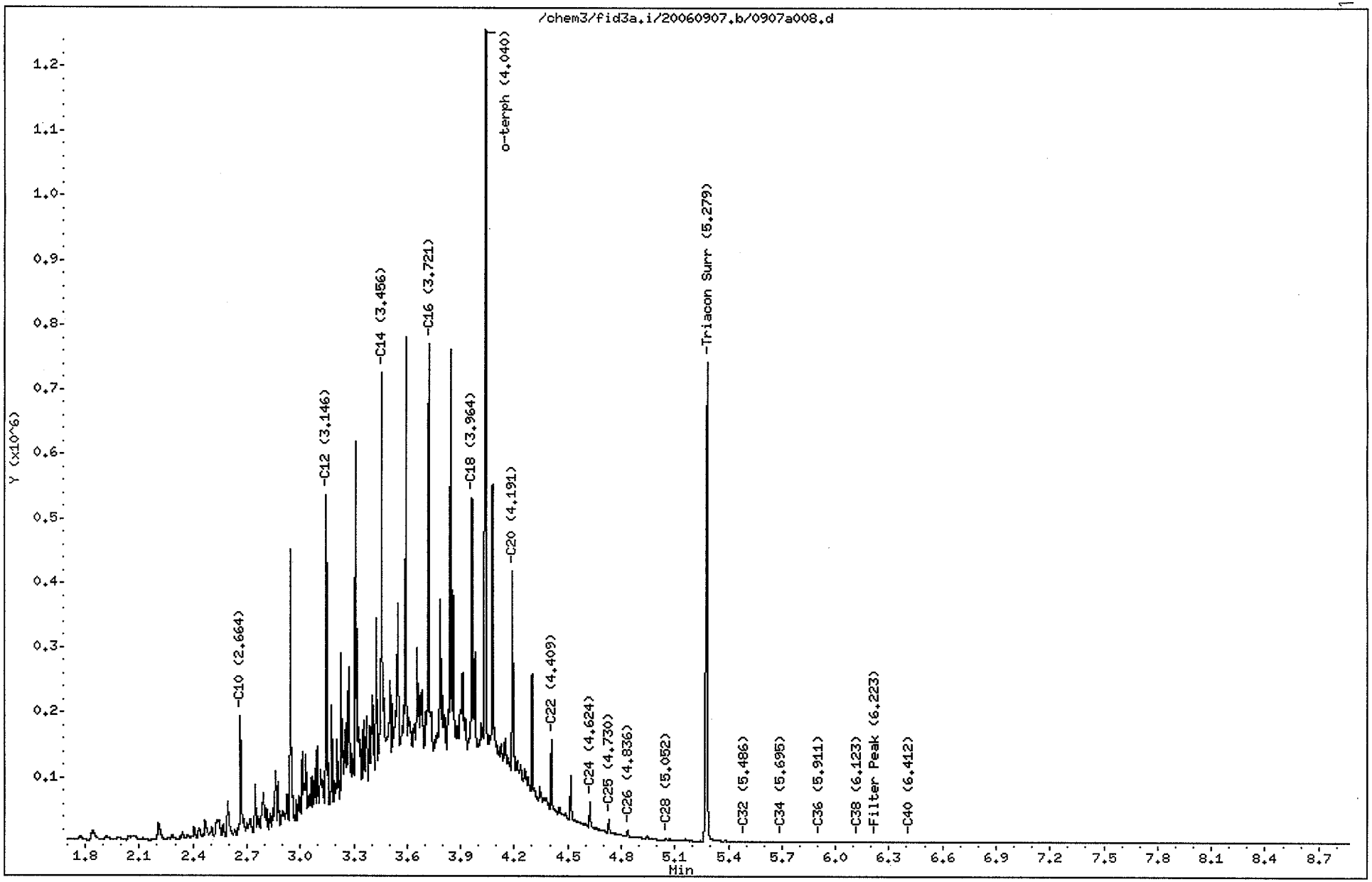
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

1362



NWTPH-Dx Analysis
Extraction Bench Sheets and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL

PROJECT: T4 EARLY ACTION, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

QA LIMs # _____
EXT-LIMs # _____
Bid # TD090IA-02

NWTPHDX/AK102/103/NWHCID - Soil/Sed
(3550B) Microtip X
(3545A) ASE _____
Med.Shakeout _____
Acid/Silica Gel Clean _____
~~KD~~ X ~~TH 9/6~~
Turbovap X

Client Name: Anchor Environmental/ DOE

ARI Job No(s): JU43/JV46

Extraction Requirements (ARI Lab ID)	Client Sample ID	Amount Extracted (g)	Volume of Solvent Added (HCID)	KD	Final Effective Volume 1mL	Volume To Lab 1mL	Time Extracted 1715 Comments
MB: JU43 MBS	9/6/06	10.00					
SB: SBS	↓	10.00					
J	Verified	10.04					
JMS		10.02					
JMSD		10.00					
JV46 A		10.00					
B		10.02					
C		10.04					
D		10.02					
E	↓	10.00			↓	↓	
Date/Analyst: TH 9/6/06					SR 9/7/06		

Surrogate Amount: 100 uL
Concentration: 150ng/uL
Added By: TH /Spk. Witness SR
ID: 1420-1

Spike Amount: 100 uL
Concentration: 15,000ng/mL
Added By: TH /Spk. Witness SR
ID: 1407-3

Neutral glasswool ID: 607#1
(DCM) Solvent Lot ID: I324
Conc. H2So4 ID: _____
Silica Gel ID: N/A
Na2So4 ID: 81284#2

3013F

Revision 6
12/5/02

ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JU43 Client Name: Anchor Environmental

Parameter: TPHD Client Project: TH Early Action

3545 SOP Number(s) [ ] No Anomalies

List problems, corrective actions, and any other pertinent information:

all extracts filtered thru 0.45µm PTFE filters.
SC 5/7/06

Extraction

Analyst: _____ Date Extracted: _____

See Reverse Side for Additional Information

3056F

Rev. 5
2/15/01

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: JU43 Client ID: TU Early Action

ARI SOP: **403S**(PCB) **405S**(Herbicides) **407S**(TPH-D) **409S**(HCID) **423S**(Pesticides) **Other**

Parameter(s): Diesel, mo:l, o-terphenyl

Instrument: FID: 3A 09/08/06 ECD: N/A

Dates: Curve: Diesel 08/04/06 mo:l 07/15/06 Analysis Start: 09/07/06

Endrin/DDT Breakdown <15%?	YES / NO / NA	LCS/LCSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	MS/MSD Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria	YES / NO	Surrogate Recovery in Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Special Analysis Criteria Met?	YES / NO / NA
Method Blank in Control?	YES / NO		

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

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 09/08/06

Reviewer's Signature: _____ **Date:** 9/8/06

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: JU43
Matrix: Sediment Project: T4 EARLY ACTION
Date Received: 07/24/06 050332-01

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
06-15854-090606MB1	Method Blank	10.0 g	1.00 mL	-	09/06/06
06-15854-090606LCS1	Lab Control	10.0 g	1.00 mL	-	09/06/06
06-15854-JU43J	T4-S3-02-K	7.45 g	1.00 mL	D	09/06/06
06-15854-JU43JMS	T4-S3-02-K	7.43 g	1.00 mL	D	09/06/06
06-15854-JU43JMSD	T4-S3-02-K	7.42 g	1.00 mL	D	09/06/06

Basis: D=Dry Weight W=As Received

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 07/14/06 Analysis: TPHd Analyst: JR

GC Program: TPH Column No: 167375 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date:

IS/SS	Ical/Ccal	LCS/ICV
N/A	RT IB Diesel moil Jet A ~~Aoil~~ ~~Jet A~~ JR 07/19/06	~~Diesel~~ ~~Moil~~ N/A JR 07/19/06

	Time	Filename	LabID	ClientId	DF
1	0704	0714a001.d	DCM		1
2	0719	0714a002.d	DCM		1
3	0734	0714a003.d	DCM		1
4	0749	0714a004.d	RT		1
5	0804	0714a005.d	IB		1
6	0820	0714a006.d	DIESEL#1		1
7	0835	0714a007.d	MOIL#1		1
8	0850	0714a008.d	JETA VER		1
9	0906	0714a009.d	JP14MBS1		1
10	0921	0714a010.d	JP14LCSS1		1
11	0936	0714a011.d	JP14A		1
12	0952	0714a012.d	JP14B		5
13	1007	0714a013.d	JP14C		1
14	1023	0714a014.d	JP14D		1
15	1038	0714a015.d	JP14E		5
16	1054	0714a016.d	JP14F		5
17	1110	0714a017.d	RINSE		1
18	1125	0714a018.d	DIESEL#2		1
19	1141	0714a019.d	MOIL#2		1
20	1156	0714a020.d	JP14G		1
21	1212	0714a021.d	JP14H		1
22	1228	0714a022.d	JP14I		1
23	1244	0714a023.d	JP14J		1
24	1300	0714a024.d	JP14K		1
25	1316	0714a025.d	JP14L		1
26	1331	0714a026.d	JP14M		1
27	1347	0714a027.d	JP14N		1
28	1403	0714a028.d	JP14O		1
29	1419	0714a029.d	RINSE		1
30	1435	0714a030.d	DIESEL#3		1
31	1451	0714a031.d	MOIL#3		1
32	1507	0714a032.d	AOIL#1		1
33	1523	0714a033.d	JP14P		1
34	1539	0714a034.d	JO14Q		1
35	1554	0714a035.d	JP14R		1
36	1610	0714a036.d	JP14S		5
37	1626	0714a037.d	JP14SMS		5
38	1642	0714a038.d	JP14SMSD		5
39	1658	0714a039.d	JP32MBS1		1
40	1713	0714a040.d	JP32LCSS1		1
41	1729	0714a041.d	JP32G		1
42	1745	0714a042.d	RINSE		1
43	1800	0714a043.d	DIESEL#4		1
44	1816	0714a044.d	MOIL#4		1
45	1832	0714a045.d	AOIL#2		1
46	1847	0714a046.d	JO98MBS1		1
47	1903	0714a047.d	JO98LCSS1		1
48	1919	0714a048.d	JO98A		1
49	1934	0714a049.d	JO98AMS		1
50	1950	0714a050.d	JO98AMSD		1
51	2006	0714a051.d	JO98B		1
52	2021	0714a052.d	JP14D		5
53	2037	0714a053.d	RINSE		1
54	2052	0714a054.d	DIESEL#5		1
55	2108	0714a055.d	MOIL#5		1
56	2124	0714a056.d	JP33MBW1		1
57	2139	0714a057.d	JP33LCSW1		1
58	2155	0714a058.d	JP33A		1
59	2210	0714a059.d	RINSE		1
60	2226	0714a060.d	DIESEL#6		1
61	2241	0714a061.d	MOIL#6		1

JR JR JR 07/19/06

Maintenance / Comments

ccals pass

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 Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 08/14/06 Analysis: TPH-d Analyst: JK

GC Program: TPH Column No: 167375 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel 08/14/06

IS/SS

N/A

Ical/Ccal

RT
IB
Diesel
AOil
AOil

LCS/ICV

N/A

	Time	Filename	LabID	ClientId	DF
1	0759	0814a001.d	DCM RINSE		1
2	0815	0814a002.d	DCM RINSE		1
3	0830	0814a003.d	DCM RINSE		1
4	0845	0814a004.d	RT		1
5	0901	0814a005.d	IB		1
6	0916	0814a006.d	DIESEL#1		1
7	0932	0814a007.d	AOIL#1		1
8	0948	0814a008.d	JS68MBS1		1
9	1003	0814a009.d	JS68LCSS1		1
10	1019	0814a010.d	JS68A		10
11	1034	0814a011.d	RINSE		1
12	1050	0814a012.d	DIESEL#2		1
13	1106	0814a013.d	AOIL#2		1
14	1123	0814a014.d	DCM RINSE		1
15	1139	0814a015.d	DCM RINSE		1
16	1154	0814a016.d	DCM RINSE		1
17	1210	0814a017.d	RT		1
18	1225	0814a018.d	IB		1
19	1258	0814a019.d	DCM RINSE		1
20	1314	0814a020.d	RINSE		1
21	1329	0814a021.d	RT		1
22	1345	0814a022.d	IB		1

	Time	Filename	LabID	ClientId	DF
23	1400	0814a023.d	DIESEL#1		1
24	1514	0814a024.d	RT		1
25	1648	0814a025.d	DCM RINSE		1
26	1703	0814a026.d	DCM RINSE		1
27	1719	0814a027.d	DCM RINSE		1
28	1734	0814a028.d	RT	RT	1
29	1750	0814a029.d	IB	IB	1
30	1805	0814a030.d	S688-1		111
31	1821	0814a031.d	S680-2		111
32	1836	0814a032.d	50 PPM DIESEL	50 PPM DIESEL	
33	1852	0814a033.d	100 PPM DIESEL	100 PPM DIESEI	
34	1918	0814a034.d	250 PPM DIESEL	250 PPM DIESEI	
35	1933	0814a035.d	500 PPM DIESEL	500 PPM DIESEI	
36	2000	0814a036.d	1000 PPM DIESEL	1000 PPM DIE	
37	2015	0814a037.d	2500 PPM DIESEL	2500 PPM DIE	
38	2031	0814a038.d	RINSE		1
39	2058	0814a039.d	DIESEL CVS	DIESEL CVS	1
40	2113	0814a040.d	DIESEL ICV	DIESEL ICV	1
41	2128	0814a041.d	RINSE		1
42	0536	0814a043.d	250 PPM AOIL		
43	0551	0814a044.d	RT		1
44	0616	0814a045.d	IB		1
45	0641	0814a046.d	IB		1

	Time	Filename	LabID	ClientId	DF
46	0656	0814a047.d	100 PPM AOIL		1

JR JK 08/15/06

Maintenance / Comments

diesel curve passes

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 Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 09/07/06 Analysis: TPH Analyst: JR

GC Program: TPHd Column No: 167375 Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: Diesel 08/14/06 mod1/A:1 07/15/06

IS/SS

N/A

Ical/Ccal

RT
IB
Diesel
mo.1
AK103

LCS/ICV

N/A

	Time	Filename	LabID	ClientId	DF
1	1042	0907a001.d	DCM RINSE		1
2	1058	0907a002.d	DCM RINSE		1
3	1114	0907a003.d	RT	RT	1
4	1129	0907a004.d	IB	IB	1
5	1145	0907a005.d	DIESEL#1	EARLY ACTION	1
6	1200	0907a006.d	MOIL#1	EARLY ACTION	1
7	1216	0907a007.d	JU43MBS1	JU43MBS1	1
8	1231	0907a008.d	JU43LCSS1	JU43LCSS1	1
9	1247	0907a009.d	JU43J	T4-S3-02-K	1
10	1303	0907a010.d	JU43JMS	T4-S3-02-K MS	1
11	1318	0907a011.d	JU43JMSD	T4-S3-02-K MSD	
12	1334	0907a012.d	JU46A		1
13	1350	0907a013.d	JU46B		1
14	1405	0907a014.d	JU46C		1
15	1421	0907a015.d	JU46D		10
16	1437	0907a016.d	RINSE		1
17	1452	0907a017.d	DIESEL#2	EARLY ACTION	1
18	1508	0907a018.d	MOIL#2	EARLY ACTION	1
19	1523	0907a019.d	AK103#1		1
20	1539	0907a020.d	JU46E		1
21	1554	0907a021.d	JU46A		5
22	1610	0907a022.d	JU46B		2
23	1625	0907a023.d	JU46C		5
24	1641	0907a024.d	JT09MBS1	JT09MBS1	1
25	1656	0907a025.d	JT09LCSS1	JT09LCSS1	1
26	1712	0907a026.d	JT09B		1
27	1727	0907a027.d	JT09B		10
28	1743	0907a028.d	RINSE		1
29	1758	0907a029.d	DIESEL#3		1
30	1814	0907a030.d	MOIL#3		1
31	1829	0907a031.d	AK103#2		1

JR 09/11/06

JR 09/11/06

Maintenance / Comments

cals pass

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

RI Project ID: moil curve Client ID: ARI

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

arameter(s): moil, n. triacontane

strument: FID: 3A ECD: N/A

ates: Curve: Moil 07/15/06 Analysis Start: 07/15/06

drin/DDT Breakdown <15%?	YES / NO / NA	LCS/LCSD Recovery in Control?	YES / NO / NA
al Meets RF & %RSD Criteria?	YES / NO	MS/MSD Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria	YES / NO	Surrogate Recovery in Control?	YES / NO
ernal Standard Meets Criteria?	YES / NO / NA	Special Analysis Criteria Met?	YES / NO / NA
ethod Blank in Control?	YES / NO		

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

All targets < 20%

ditional Details on Reverse: Yes / No

alyst Signature: [signature] **Date:** 07/18/01

viewer's Signature: [signature] **Date:** 7.18.2006

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: Diesel/o-terphenyl/AK Diesel/AK102 curves Client ID: A . R . I .

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) (Other)

arameter(s): Diesel / o-terphenyl / AK102 / AK Diesel

strument: FID: 3A ECD: N/A

ates: Curve: Diesel 08/14/06 / AK Diesel / AK102 Analysis Start: 08/14/06

ndrin/DDT Breakdown <15%? YES / NO / (NA) LCS/LCSD Recovery in Control? YES / NO (NA)

Cal Meets RF & %RSD Criteria? (YES) / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery in Control? YES / NO

ternal Standard Meets Criteria? YES / NO (NA) Special Analysis Criteria Met? YES / NO (NA)

ethod Blank in Control? YES / NO (NA)

etail problems, corrective actions and/or other pertinent information below (use reverse side hen necessary): ICV quants ~80%.

all points w/in QC

dditional Details on Reverse: Yes / (No)

nalyst Signature: JK **Date:** 08/14/06

eviewer's Signature: BB **Date:** 8/16/06

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
T4-B414-01-D	JU43A	06-15845	
T4-B414-01-DD	JU43ADUP	06-15845	
T4-B414-01-DS	JU43ASPK	06-15845	
T4-B414-01-F	JU43B	06-15846	
PBS	JU43MB1	06-15846	
LCSS	JU43MB1SPK	06-15846	
T4-B414-01-E	JU43C	06-15847	
T4-B414-02-D	JU43D	06-15848	
T4-B414-02-E	JU43E	06-15849	
T4-B414-02-F	JU43F	06-15850	
T4-S3-02-K	JU43J	06-15854	
T4-S3-05-K	JU43L	06-15856	
T4-S3-04-E	JU43N	06-15858	
T4-S3-04-F	JU43O	06-15859	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 9/14/06 Title: Inorganics Lab Manager

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-D
DUPLICATE

Lab Sample ID: JU43A
LIMS ID: 06-15845
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Lead	6010B	41	44	7.1%	+/- 20%	
Zinc	6010B	175	213	19.6%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-D
MATRIX SPIKE

Lab Sample ID: JU43A
LIMS ID: 06-15845
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Lead	6010B	41	377	363	92.6%	
Zinc	6010B	175	263	90.8	96.9%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: JU43LCS
LIMS ID: 06-15846
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Lead	6010B	206	200	103%	
Zinc	6010B	51.2	50.0	102%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: JU43MB
LIMS ID: 06-15846
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/11/06	7439-92-1	Lead	2	2	U
3050B	09/06/06	6010B	09/11/06	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP091121	2000.0	1999.25	100.0	2000.0	1989.49	99.5	2000.73	100.0	2007.95	100.4				
Zinc	ZN	ICP	IP091121	1000.0	984.38	98.4	1000.0	973.61	97.4	961.01	96.1	975.76	97.6				

1379

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Lead	PB	ICP	IP091221	2000.0	2026.85	101.3	2000.0	2015.52	100.8	2031.93	101.6	2045.16	102.3	2038.63	101.9	2045.60	102.3
Zinc	ZN	ICP	IP091221	1000.0	1016.61	101.7	1000.0	1015.03	101.5	1008.12	100.8	1012.88	101.3	1003.31	100.3	1049.37	104.9

1380

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Lead	PB	ICP	IP091221	2000.0	1998.35	99.9	1995.64	99.8								
Zinc	ZN	ICP	IP091221	1000.0	1021.64	102.2	994.78	99.5								

1381

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	M	RUN	CRA/I TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Lead	PB	ICP	IP091121	20.0	20.34	**101.7**	20.40	**102.0**	20.14	**100.7**	20.11	**100.6**				
Zinc	ZN	ICP	IP091121	6.0	5.23	**87.2**	7.85	**130.8**	6.60	**110.0**	6.32	**105.3**				

1382

Control Limits: no control limits have been established by the EPA at this time.

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	M	RUN	CRA/I TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Lead	PB	ICP	IP091221	20.0	20.60	**103.0**	22.62	**113.1**								
Zinc	ZN	ICP	IP091221	6.0	3.79	**63.2**	3.88	**64.7**								

1383

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Lead	PB	ICP	IP091121	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U				
Zinc	ZN	ICP	IP091121	20.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U				

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Lead	PB	ICP	IP091221	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
Zinc	ZN	ICP	IP091221	20.0	6.0	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Lead	PB	ICP	IP091221	3.0	20.0	20.0	U	20.0	U								
Zinc	ZN	ICP	IP091221	20.0	6.0	6.0	U	6.0	U								

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

ICS SOURCE: I.V.

RUNID: IP091121

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	197862.5	199497.2	**99.7**						
Antimony		1000	24.7	1056.3	**105.6**						
Arsenic		1000	3.3	1055.2	**105.5**						
Barium		1000	-0.9	974.1	**97.4**						
Beryllium		1000	0.0	1027.5	**102.8**						
Boron			-0.7	-4.4							
Cadmium		1000	-0.8	1039.9	**104.0**						
Calcium	100000	100000	97948.8	98004.2	**98.0**						
Chromium		1000	-3.1	956.1	**95.6**						
Cobalt		1000	-2.9	971.3	**97.1**						
Copper		1000	-0.4	1050.6	**105.1**						
Iron	200000	200000	196123.8	196331.2	**98.2**						
Lead		1000	1.6	971.6	**97.2**						
Magnesium	100000	100000	101286.4	101066.8	**101.1**						
Manganese		1000	-0.7	938.1	**93.8**						
Molybdenum			4.6	4.2							
Nickel		1000	-2.5	935.4	**93.5**						
Potassium			68.2	172.3							
Selenium		1000	-70.3	968.0	**96.8**						
Silicon			18.7	23.5							
Silver		1000	-2.2	1069.7	**107.0**						
Sodium			56.8	49.4							
Strontium			1.2	1.4							
Thallium		1000	-24.2	966.3	**96.6**						
Tin			-4.5	-4.9							
Titanium			6.3	5.5							
Vanadium		1000	1.5	1049.8	**105.0**						
Zinc		1000	-2.4	923.1	**92.3**						

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

ICS SOURCE: I.V.

RUNID: IP091221

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	199999.0	200242.6	**100.1**	202936.1	203527.0	**101.8**			
Antimony		1000	18.4	1081.4	**108.1**	22.7	1092.0	**109.2**			
Arsenic		1000	1.6	1046.8	**104.7**	-3.4	1052.1	**105.2**			
Barium		1000	-0.6	1000.6	**100.1**	-0.8	1013.1	**101.3**			
Beryllium		1000	0.0	1055.7	**105.6**	0.1	1079.5	**108.0**			
Boron			-1.9	-7.2		14.8	9.4				
Cadmium		1000	-0.3	1047.8	**104.8**	-0.8	1059.7	**106.0**			
Calcium	100000	100000	99525.5	99380.9	**99.4**	100697.4	101360.1	**101.4**			
Chromium		1000	-4.5	983.3	**98.3**	-4.2	1003.5	**100.4**			
Cobalt		1000	-2.6	967.8	**96.8**	-2.4	978.6	**97.9**			
Copper		1000	-0.1	1065.5	**106.6**	0.4	1080.7	**108.1**			
Iron	200000	200000	200007.2	199112.4	**99.6**	203364.1	204688.7	**102.3**			
Lead		1000	0.9	980.0	**98.0**	0.9	991.3	**99.1**			
Magnesium	100000	100000	100729.7	100430.8	**100.4**	101231.6	102051.9	**102.1**			
Manganese		1000	-0.7	968.7	**96.9**	-0.5	986.8	**98.7**			
Molybdenum			4.7	4.9		4.5	4.6				
Nickel		1000	-4.4	977.2	**97.7**	-5.4	993.7	**99.4**			
Potassium			157.5	183.5		192.5	266.2				
Selenium		1000	-71.6	973.0	**97.3**	-76.3	984.7	**98.5**			
Silicon			17.9	23.9		23.4	28.5				
Silver		1000	-1.4	1074.7	**107.5**	-1.9	1086.7	**108.7**			
Sodium			283.1	167.0		785.8	677.0				
Strontium			1.2	1.5		1.3	1.5				
Thallium		1000	-26.6	958.0	**95.8**	-26.4	971.5	**97.2**			
Tin			-5.1	-5.1		-5.5	-5.9				
Titanium			4.7	5.4		5.6	5.3				
Vanadium		1000	1.1	1061.8	**106.2**	1.5	1075.3	**107.5**			
Zinc		1000	-9.2	972.4	**97.2**	-7.3	991.8	**99.2**			

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	6/1/2006	300000.0	6/19/1906
Zinc	ZN	ICP	OPTIMA ICP 1	206.20		20	6.0	6/1/2006	100000.0	6/19/1906

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

IEC DATE: 6/19/2006

SDG: JU43

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	16.2100000	0.0000000	0.0000000
Arsenic	188.98	0.0899919	0.0000000	0.1533550	0.0000000	0.0557918	0.0000000	0.0000000	0.3754730	0.3209290	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2555740	0.0000000	0.0000000	0.0719803
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	1.3822800	0.0463102	0.0000000	0.0000000	0.0000000	0.1963220	0.0000000	0.0000000	0.0100886
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0838568
Cobalt	228.62	-0.0170392	0.0000000	0.2412880	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0234430
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2000560	-0.0393520	0.0000000	-0.0946918
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.7498730	0.0000000	0.0000000
Lead	220.35	-0.1925250	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1485420	-1.6563300	0.6048040	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.3145300	-0.8640350	0.0000000	0.7372390
Manganese	257.61	0.0072299	0.0000000	0.0000000	0.0000000	0.0055500	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	-0.0221489	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.0980400	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0415558
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	8.9586100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	3.5279800	0.3870280	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.1774780	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2123760	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-7.0582400	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0129802	0.3119720	0.0000000	0.3266740	0.0000000	0.0266652

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

IEC DATE: 6/19/2006

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	19.6878000	0.0000000	0.0000000	0.0000000	0.7151350	0.0000000	16.7609000	0.000000C
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.3295220	0.0000000	0.0000000	-0.8642410	0.0000000	-3.4575900	0.000000C
Arsenic	188.98	0.0000000	0.0000000	0.9150530	0.0000000	0.0000000	0.0000000	2.5519000	0.0000000	0.0000000	0.149276C
Barium	233.53	0.0000000	0.0000000	0.0000000	0.1240640	0.0000000	0.0000000	0.0000000	0.0000000	0.4604860	0.000000C
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.5675800	0.000000C
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2000800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Chromium	267.72	0.1529370	0.5096240	0.1429920	0.0000000	0.0000000	0.0000000	0.0965822	0.0000000	0.1796520	0.000000C
Cobalt	228.62	0.0000000	0.0000000	-0.3795350	0.0320069	0.0000000	0.0000000	1.7290300	0.0000000	0.0000000	0.000000C
Copper	324.75	0.0085698	0.0000000	0.7344770	0.0000000	0.0000000	0.0000000	0.2196270	0.0000000	0.0000000	0.000000C
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.7593200	0.000000C
Lead	220.35	0.0000000	0.0000000	-0.3190660	-0.1742160	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Magnesium	279.08	0.0000000	0.0000000	-3.2635900	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Manganese	257.61	0.0170007	0.0000000	0.0000000	0.0000000	-0.2391890	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Molybdenum	202.03	0.0236906	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.5765410	0.0000000	0.0000000	0.0000000	0.000000C
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Selenium	196.03	0.0000000	1.1348600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Silver	328.07	0.0000000	0.1621690	0.1065380	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3119270	0.000000C
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	250.8830000	0.0000000	0.0000000	252.099000C
Thallium	190.80	0.0000000	0.0000000	-3.5954300	0.0000000	0.0000000	0.0000000	0.8751120	0.0000000	2.2588300	0.000000C
Tin	189.93	0.0270703	0.0000000	0.0000000	0.0000000	-0.0530103	-1.8271700	0.1974990	0.0000000	0.0000000	0.000000C
Titanium	334.90	0.0000000	0.0000000	1.0370700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C
Vanadium	292.40	0.0000000	-0.1494890	-0.7380980	0.0000000	0.0000000	0.0000000	0.4684280	0.0000000	0.0000000	0.000000C
Zinc	206.20	0.0000000	0.0000000	0.3271770	0.0000000	-0.0935990	0.0000000	0.0000000	0.0000000	0.0000000	0.000000C

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Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION

SDG: JU43

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 9/6/2006

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
T4-B414-01-D	JU43A	1.034	0.0	50.0
T4-B414-01-DD	JU43ADUP	1.035	0.0	50.0
T4-B414-01-DS	JU43ASPK	1.037	0.0	50.0
T4-B414-01-F	JU43B	1.048	0.0	50.0
T4-B414-01-E	JU43C	1.006	0.0	50.0
T4-B414-02-D	JU43D	1.021	0.0	50.0
T4-B414-02-E	JU43E	1.054	0.0	50.0
T4-B414-02-F	JU43F	1.023	0.0	50.0
T4-S3-02-K	JU43J	1.063	0.0	50.0
T4-S3-05-K	JU43L	1.048	0.0	50.0
PBS	JU43MB1	1.000	0.0	50.0
LCSS	JU43MB1SPK	1.000	0.0	50.0
T4-S3-04-E	JU43N	1.044	0.0	50.0
T4-S3-04-F	JU43O	1.044	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 9/11/2006

SDG: JU43 | RUNID: IP091121 | METHOD: ICP | END DATE: 9/11/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	09200																					X									X
S2	S2	1.00	09262																														
S3	S3	1.00	09303																					X									X
S4	S4	1.00	09352																														
S5	S5	1.00	09400																														
ICV	ICV	1.00	09581																					X									X
ICB	ICB	1.00	10042																					X									X
S0	S0	1.00	10111																					X									X
CCV	CCV1	1.00	10155																					X									X
CCB	CCB1	1.00	10220																					X									X
CRI	CRII	1.00	10283																					X									X
ICSA	ICSAI	1.00	10345																					X									X
ICSAB	ICSABI	1.00	10412																					X									X
CCV	CCV2	1.00	10474																					X									X
CCB	CCB2	1.00	10535																					X									X
ZZZZZZ	DICHECK	1.00	10592																														
ZZZZZZ	JU82MB	1.00	11055																														
ZZZZZZ	JT39RMB4	2.00	11121																														
ZZZZZZ	JS74RMB1	2.00	11184																														
PBS	JU43MB1	2.00	11250																					X									X
ZZZZZZ	JT86MB1	2.00	11312																														
ZZZZZZ	QC7M	1.00	11375																														
ZZZZZZ	SPEX21	1.00	11441																														
CCV	CCV3	1.00	11504																					X									X
CCB	CCB3	1.00	11570																					X									X

1393

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 9/12/2006

SDG: JU43 | RUNID: IP091221 | METHOD: ICP | END DATE: 9/12/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	ZZZZZZ	1.00	09423																														
S0	S0	1.00	10004																					X									X
S2	S2	1.00	10070																														
S3	S3	1.00	10111																					X									X
S4	S4	1.00	10160																														
S5	S5	1.00	10203																														
ZZZZZZ	ZZZZZZ	1.00	10393																														
ZZZZZZ	ZZZZZZ	1.00	10454																														
S0	S0	1.00	10523																					X									X
ICV	ICV	1.00	10573																					X									X
ICB	ICB	1.00	11034																					X									X
CRI	CRII	1.00	11101																					X									X
ICSA	ICSAI	1.00	11163																					X									X
ICSAB	ICSABI	1.00	11230																					X									X
CCV	CCV1	1.00	11292																					X									X
CCB	CCB1	1.00	11353																					X									X
ZZZZZZ	JU66F	2.00	11412																														
ZZZZZZ	JU66G	2.00	11483																														
ZZZZZZ	JU66R	2.00	11554																														
ZZZZZZ	JU66S	2.00	12025																														
ZZZZZZ	JU66K	2.00	12100																														
ZZZZZZ	JU66W	2.00	12170																														
ZZZZZZ	JV40C	10.00	12241																														
ZZZZZZ	JV40D	10.00	12312																														
ZZZZZZ	JU66G	5.00	12384																														
ZZZZZZ	JU66S	5.00	12464																														
CCV	CCV2	1.00	12544																					X									X
CCB	CCB2	1.00	13022																					X									X
ZZZZZZ	JU66W	5.00	13084																														
CRI	CRIF	1.00	13180																					X									X
ICSA	ICSAF	1.00	13242																					X									X
ICSAB	ICSABF	1.00	13313																					X									X
CCV	CCV3	1.00	13383																					X									X
CCB	CCB3	1.00	13452																					X									X
T4-B414-01-F	JU43B	2.00	13512																					X									X

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: T4 EARLY ACTION | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 9/12/2006

SDG: JU43 | RUNID: IP091221 | METHOD: ICP | END DATE: 9/12/2006

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
T4-B414-01-E	JU43C	2.00	13574																					X									X
T4-B414-02-D	JU43D	2.00	14035																					X									X
T4-B414-02-E	JU43E	2.00	14100																					X									X
T4-B414-02-F	JU43F	2.00	14162																					X									X
T4-S3-05-K	JU43L	2.00	14223																					X									X
T4-B414-01-DD	JU43ADUP	2.00	14285																					X									X
T4-B414-01-D	JU43A	2.00	14350																					X									X
T4-B414-01-DS	JU43ASPK	2.00	14411																					X									X
LCSS	JU43MB1SPK	2.00	14473																					X									X
CCV	CCV4	1.00	14534																					X									X
CCB	CCB4	1.00	15000																					X									X
ZZZZZZ	ZZZZZZ	2.00	15062																														
ZZZZZZ	ZZZZZZ	2.00	15130																														
ZZZZZZ	ZZZZZZ	2.00	15194																														
S0	S0	1.00	15323																					X									X
CCV	CCV5	1.00	15371																					X									X
CCB	CCB5	1.00	15432																					X									X
ZZZZZZ	JT86MB1	2.00	15494																														
ZZZZZZ	JT86A	2.00	15561																														
ZZZZZZ	JT86C	2.00	16024																														
ZZZZZZ	JT86D	2.00	16090																														
ZZZZZZ	JT86H	2.00	16151																														
ZZZZZZ	JT86GDUP	2.00	16213																														
ZZZZZZ	JT86G	2.00	16274																														
ZZZZZZ	JT86GSPK	2.00	16340																														
ZZZZZZ	JT86MB1SPK	2.00	16392																														
ZZZZZZ	JT86MB1SPD	2.00	16454																														
CCV	CCV6	1.00	16515																					X									X
CCB	CCB6	1.00	16580																					X									X
T4-S3-02-K	JU43J	2.00	17042																					X									X
T4-S3-04-F	JU43O	2.00	17104																					X									X
T4-S3-04-E	JU43N	2.00	17165																					X									X
CCV	CCV7	1.00	17231																					X									X
CCB	CCB7	1.00	17292																					X									X

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: T4-B414-01-D
SAMPLE

Lab Sample ID: JU43A
LIMS ID: 06-15845
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Percent Total Solids: 53.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	4	**41**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**175**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-F
SAMPLE

Lab Sample ID: JU43B
LIMS ID: 06-15846
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Percent Total Solids: 58.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**171**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**488**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-01-E
SAMPLE

Lab Sample ID: JU43C
LIMS ID: 06-15847
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Percent Total Solids: 57.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**165**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**579**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-D
SAMPLE

Lab Sample ID: JU43D
LIMS ID: 06-15848
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Percent Total Solids: 53.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	4	**35**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**152**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-E
SAMPLE

Lab Sample ID: JU43E
LIMS ID: 06-15849
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Percent Total Solids: 56.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**32**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**184**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-B414-02-F
SAMPLE

Lab Sample ID: JU43F
LIMS ID: 06-15850
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Percent Total Solids: 56.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**57**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	1	**342**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-02-K
SAMPLE

Lab Sample ID: JU43J
LIMS ID: 06-15854
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Percent Total Solids: 73.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**19**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	0.8	**65.8**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-05-K
SAMPLE

Lab Sample ID: JU43L
LIMS ID: 06-15856
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/19/06
Date Received: 07/24/06

Percent Total Solids: 73.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**4**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	0.8	**64.9**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-04-E
SAMPLE

Lab Sample ID: JU43N
LIMS ID: 06-15858
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Percent Total Solids: 71.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	3	**17**	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	0.8	**60.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: T4-S3-04-F
SAMPLE

Lab Sample ID: JU43O
LIMS ID: 06-15859
Matrix: Sediment
Data Release Authorized:
Reported: 09/13/06

QC Report No: JU43-Anchor Environmental
Project: T4 EARLY ACTION
050332-01
Date Sampled: 07/20/06
Date Received: 07/24/06

Percent Total Solids: 76.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	09/06/06	6010B	09/12/06	**7439-92-1**	**Lead**	2	3	
3050B	09/06/06	6010B	09/12/06	**7440-66-6**	**Zinc**	0.7	53.2	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 6.19.06 Analysis Date: 9.11.6 Analyst: VWB

LR Date: 6.19.06 Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD 0			2302-1
		2			-6
		3			-7
		4			-8
		5			-9
		ICV			2294-3
		ICB			
		STD 0			
		CCV1			
		CCB1			
		CRI			
		ICSA			
		ICSAB			
		CCV2			
		CCB2			
		DICHECK		✓	
		JU82 MB	TWC	✓	
		JT39R MB4	SWC	2	Zn 0.00708 CAF note
		JS74R MB1			Zn 0.0112 A.N.
		JU43 MB1		✓	
		JT86 MB1			Al 0.079, Ca 0.134, Zn 0.020
		QC 7M		✓	
		SPEX21		✓	
		CCV3			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 9.11.06 Analyst: JMB

LR Date: — Page: 2 of 5

All corrections made by analyst unless otherwise noted. 9.11.06 JMB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCB3			
		~~JT39R K-L~~	~~SUC~~	~~10~~ ✓	~~serial dilution~~
		K		2	
		KDUP			Ni 20.3, ~~Pb~~ CAF
		KSPK			Sb 33% Fe STL ↓
		KPOST			0.016mL 1000ug/L SD / 8mls
		N			
		MB4SPK			✓
		CCV4			
		CCB4			
		CRI			
		ICSA			
		ICSAB			
		CCV5			MK 9/14/06
		CCB5			
		JS74R A-L	SUC	10 ✓	serial dilution
		A		2	
		B			
		C			
		D			
		E			
		F			
		G			
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ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 9.11.6

	Analyst JJF 9.12.6	Peer MA 9/12	Comment
Logbook:			
Analyst, Date, Method info	✓	–	
Sample ID's	✓	–	
Standard/QC solution ID's recorded	✓	–	
Prep codes	✓	–	
Dilution factors	✓	–	
Crossouts/Corrections/Deletions	✓	–	
Calibration:			
Blank & Standard intensities	✓	–	
Standard deviations	✓	–	
Curve fit	✓	–	
Calibration Verification:			
ICV/CCV	✓	–	see log
ICB/CCB	✓	–	"
Samples:			
RSD's & SD's	✓	–	
Internal Standards	✓	–	
Carry-over	✓	–	see log
Method QC:			
CRI/CRA	✓	–	
ICSA/ICSAB	✓	–	
Post Spikes/Serial Dilutions	✓	–	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	–	
Matrix Duplicates	✓	–	JT3PRCAF
Method Blanks	✓	–	" JS4PRA, JT3PRA
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	–	
Raw data match distributed data	✓	–	
Data filename correct	✓	–	
Necessary Analysts Notes and CAF's	✓	✓	JT3PR, JS4PR, JT3PR

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	175.0 kPa	0.50 L/min

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9/11/2006 9:18:13 AM Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): 0.000 Slit adjustment: 2

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Analysis Begun

Start Time: 9/11/2006 9:20:03 AM **Plasma On Time: 9/11/2006 8:23:40 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060911
Results Library: C:\pe\Administrator\Results\Results.mdb

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Method Loaded
Method Name: ARIIEC5 **Method Last Saved: 6/20/2006 9:43:41 AM**
IEC File: IEC28.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 9/11/2006 9:20:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1945093.1	12631.71	0.65%	100.0	%
ScR 361.383	206269.9	381.90	0.19%	100.0	%
Ag 328.068†	260.0	15.16	5.83%	[0.00]	mg/L
Al 308.215†	-51.8	26.62	51.42%	[0.00]	mg/L
As 188.979†	32.7	3.22	9.86%	[0.00]	mg/L
B 249.677†	-43.3	1.72	3.96%	[0.00]	mg/L
Ba 233.527†	37.0	4.92	13.31%	[0.00]	mg/L
Be 313.042†	964.7	9.38	0.97%	[0.00]	mg/L
Ca 317.933†	403.6	28.80	7.14%	[0.00]	mg/L
Cd 228.802†	175.1	1.96	1.12%	[0.00]	mg/L
Co 228.616†	48.2	2.57	5.33%	[0.00]	mg/L
Cr 267.716†	49.9	6.47	12.98%	[0.00]	mg/L
Cu 324.752†	3249.1	97.97	3.02%	[0.00]	mg/L
Fe 273.955†	-44.1	2.27	5.15%	[0.00]	mg/L
K 766.490†	2635.7	103.13	3.91%	[0.00]	mg/L
Mg 279.077†	-122.1	8.54	7.00%	[0.00]	mg/L
Mn 257.610†	32.5	4.46	13.72%	[0.00]	mg/L
Mo 202.031†	-76.6	1.54	2.01%	[0.00]	mg/L
Na 589.592†	-483.8	39.89	8.25%	[0.00]	mg/L
Na 330.237†	-200.7	9.29	4.63%	[0.00]	mg/L
Ni 231.604†	0.4	3.08	750.13%	[0.00]	mg/L
Pb 220.353†	153.0	3.76	2.45%	[0.00]	mg/L
Sb 206.836†	12.2	2.57	21.01%	[0.00]	mg/L
Se 196.026†	-90.8	15.50	17.07%	[0.00]	mg/L
Si 288.158†	-36.5	7.93	21.72%	[0.00]	mg/L
Sn 189.927†	12.1	3.11	25.76%	[0.00]	mg/L
Sr 421.552†	657.6	48.58	7.39%	[0.00]	mg/L
Ti 334.903†	-224.1	10.13	4.52%	[0.00]	mg/L
Tl 190.801†	-10.0	1.65	16.62%	[0.00]	mg/L
V 292.402†	-368.4	36.68	9.96%	[0.00]	mg/L
Zn 206.200†	-4.8	1.75	36.10%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/11/2006 9:26:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1933372.5	10048.11	0.52%	99.40	%
ScR 361.383	206382.8	485.74	0.24%	100.1	%
Ba 233.527†	35848.7	34.02	0.09%	[10]	mg/L
Cd 228.802†	381640.6	446.07	0.12%	[10]	mg/L
Co 228.616†	438660.6	986.83	0.22%	[10]	mg/L
Cr 267.716†	84233.5	72.63	0.09%	[10]	mg/L
Cu 324.752†	3253511.6	3450.23	0.11%	[10]	mg/L
Mn 257.610†	287709.3	369.27	0.13%	[10]	mg/L
V 292.402†	3430933.2	5269.32	0.15%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/11/2006 9:30:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1882997.0	11115.01	0.59%	96.81	%
ScR 361.383	208155.2	1128.64	0.54%	100.9	%
Ag 328.068†	365012.8	326.33	0.09%	[1.0]	mg/L
As 188.979†	12053.4	89.88	0.75%	[10]	mg/L
B 249.677†	30112.1	170.10	0.56%	[10]	mg/L
Be 313.042†	3133915.0	5191.36	0.17%	[5.0]	mg/L
Na 589.592†	330546.9	776.21	0.23%	[50]	mg/L
Ni 231.604†	20959.4	123.89	0.59%	[10]	mg/L
Pb 220.353†	118072.6	145.98	0.12%	[10]	mg/L
Se 196.026†	18110.4	126.51	0.70%	[10]	mg/L
Sr 421.552†	3645505.9	3874.47	0.11%	[5]	mg/L
Tl 190.801†	13348.3	82.80	0.62%	[10]	mg/L
Zn 206.200†	11250.8	93.11	0.83%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 9/11/2006 9:35:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1960394.9	9861.34	0.50%	100.8	%
ScR 361.383	209602.6	665.82	0.32%	101.6	%
Mo 202.031†	123616.5	557.17	0.45%	[10]	mg/L
Sb 206.836†	13525.9	61.07	0.45%	[10]	mg/L
Si 288.158†	16864.1	14.01	0.08%	[10]	mg/L
Sn 189.927†	56441.5	209.74	0.37%	[10]	mg/L
Ti 334.903†	278563.4	237.53	0.09%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/11/2006 9:40:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1795369.9	4660.60	0.26%	92.30	%
ScR 361.383	196340.6	548.52	0.28%	95.19	%
Al 308.215†	42449.9	61.27	0.14%	[30]	mg/L
Ca 317.933†	703526.0	6353.09	0.90%	[30]	mg/L
Fe 273.955†	105039.7	317.69	0.30%	[100]	mg/L
K 766.490†	168301.1	137.69	0.08%	[100]	mg/L
Mg 279.077†	49020.3	68.87	0.14%	[30]	mg/L
Na 330.237†	3024.4	16.37	0.54%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	365000	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1415	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1205	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3011	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3585	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	626800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	23450	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	38160	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	43870	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8423	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	325400	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1050	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1683	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1634	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	28770	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	12360	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6611	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	30.24	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	2096	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	11810	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1353	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1811	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1686	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	5644	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	729100	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	27860	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1335	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	343100	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1125	0.00000	1.000000	

Analysis Begun

Start Time: 9/11/2006 9:58:13 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus
Plasma On Time: 9/11/2006 8:23:40 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060911
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 9/11/2006 9:58:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1882321.0	96.77	%	0.519				0.54%
ScR 361.383	206638.9	100.2	%	0.63				0.63%
Ag 328.068†	363422.5	0.9958	mg/L	0.00252	0.9958	mg/L	0.00252	0.25%
Al 308.215†	2871.2	1.992	mg/L	0.0179	1.992	mg/L	0.0179	0.90%
As 188.979†	2409.3	1.994	mg/L	0.0088	1.994	mg/L	0.0088	0.44%
B 249.677†	2921.6	0.9736	mg/L	0.00710	0.9736	mg/L	0.00710	0.73%
Ba 233.527†	3448.0	0.9613	mg/L	0.00508	0.9613	mg/L	0.00508	0.53%
Be 313.042†	608432.0	0.9691	mg/L	0.00158	0.9691	mg/L	0.00158	0.16%
Ca 317.933†	47132.4	2.010	mg/L	0.0057	2.010	mg/L	0.0057	0.28%
Cd 228.802†	39277.3	1.026	mg/L	0.0037	1.026	mg/L	0.0037	0.36%
Co 228.616†	43636.1	0.9931	mg/L	0.00460	0.9931	mg/L	0.00460	0.46%
Cr 267.716†	8022.9	0.9514	mg/L	0.00467	0.9514	mg/L	0.00467	0.49%
Cu 324.752†	332700.8	1.022	mg/L	0.0026	1.022	mg/L	0.0026	0.26%
Fe 273.955†	2112.9	2.009	mg/L	0.0119	2.009	mg/L	0.0119	0.59%
K 766.490†	32813.4	19.50	mg/L	0.081	19.50	mg/L	0.081	0.42%
Mg 279.077†	3298.4	2.022	mg/L	0.0090	2.022	mg/L	0.0090	0.45%
Mn 257.610†	26881.8	0.9348	mg/L	0.00426	0.9348	mg/L	0.00426	0.46%
Mo 202.031†	12240.1	0.9902	mg/L	0.00466	0.9902	mg/L	0.00466	0.47%
Na 589.592†	329868.4	49.90	mg/L	0.085	49.90	mg/L	0.085	0.17%
Na 330.237†	1509.7	49.90	mg/L	0.302	49.90	mg/L	0.302	0.60%
Ni 231.604†	2060.6	0.9843	mg/L	0.00608	0.9843	mg/L	0.00608	0.62%
Pb 220.353†	23582.2	1.999	mg/L	0.0033	1.999	mg/L	0.0033	0.16%
Sb 206.836†	2800.4	2.071	mg/L	0.0102	2.071	mg/L	0.0102	0.49%
Se 196.026†	3630.2	2.003	mg/L	0.0054	2.003	mg/L	0.0054	0.27%
Si 288.158†	3195.6	1.897	mg/L	0.0117	1.897	mg/L	0.0117	0.62%
Sn 189.927†	5503.4	0.9791	mg/L	0.00349	0.9791	mg/L	0.00349	0.36%
Sr 421.552†	716790.5	0.9831	mg/L	0.00145	0.9831	mg/L	0.00145	0.15%
Ti 334.903†	28219.1	1.012	mg/L	0.0045	1.012	mg/L	0.0045	0.44%
Tl 190.801†	2640.3	1.975	mg/L	0.0025	1.975	mg/L	0.0025	0.13%
V 292.402†	345697.8	1.015	mg/L	0.0030	1.015	mg/L	0.0030	0.30%
Zn 206.200†	1108.4	0.9844	mg/L	0.00598	0.9844	mg/L	0.00598	0.61%

Sequence No.: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/11/2006 10:04:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1935660.3	99.52	%	0.582				0.58%
ScR 361.383	209605.9	101.6	%	0.47				0.46%
Ag 328.068†	69.1	0.00019	mg/L	0.000100	0.00019	mg/L	0.000100	52.56%
Al 308.215†	43.9	0.03103	mg/L	0.016576	0.03103	mg/L	0.016576	53.42%
As 188.979†	3.6	0.00301	mg/L	0.001352	0.00301	mg/L	0.001352	44.90%
B 249.677†	18.6	0.00620	mg/L	0.002156	0.00620	mg/L	0.002156	34.80%
Ba 233.527†	0.1	0.00002	mg/L	0.000783	0.00002	mg/L	0.000783	>999.9%
Be 313.042†	8.4	0.00001	mg/L	0.000035	0.00001	mg/L	0.000035	258.03%
Ca 317.933†	-50.3	-0.00215	mg/L	0.000846	-0.00215	mg/L	0.000846	39.42%
Cd 228.802†	11.6	0.00030	mg/L	0.000121	0.00030	mg/L	0.000121	40.38%
Co 228.616†	-0.6	-0.00001	mg/L	0.000053	-0.00001	mg/L	0.000053	384.55%
Cr 267.716†	2.2	0.00026	mg/L	0.000827	0.00026	mg/L	0.000827	320.33%
Cu 324.752†	-13.6	-0.00004	mg/L	0.000041	-0.00004	mg/L	0.000041	99.17%
Fe 273.955†	4.9	0.00468	mg/L	0.003015	0.00468	mg/L	0.003015	64.43%
K 766.490†	69.0	0.04101	mg/L	0.045428	0.04101	mg/L	0.045428	110.78%
Mg 279.077†	-30.2	-0.01850	mg/L	0.008491	-0.01850	mg/L	0.008491	45.89%
Mn 257.610†	17.8	0.00062	mg/L	0.000092	0.00062	mg/L	0.000092	14.89%
Mo 202.031†	7.4	0.00060	mg/L	0.000341	0.00060	mg/L	0.000341	56.56%
Na 589.592†	148.8	0.02250	mg/L	0.004773	0.02250	mg/L	0.004773	21.21%
Na 330.237†	19.9	0.6568	mg/L	0.26762	0.6568	mg/L	0.26762	40.75%
Ni 231.604†	4.5	0.00215	mg/L	0.001547	0.00215	mg/L	0.001547	71.86%
Pb 220.353†	10.0	0.00085	mg/L	0.000447	0.00085	mg/L	0.000447	52.55%
Sb 206.836†	5.5	0.00411	mg/L	0.001994	0.00411	mg/L	0.001994	48.53%
Se 196.026†	8.7	0.00482	mg/L	0.001800	0.00482	mg/L	0.001800	37.37%
Si 288.158†	4.4	0.00263	mg/L	0.004715	0.00263	mg/L	0.004715	179.25%
Sn 189.927†	15.8	0.00280	mg/L	0.000748	0.00280	mg/L	0.000748	26.72%
Sr 421.552†	-50.5	-0.00007	mg/L	0.000037	-0.00007	mg/L	0.000037	53.29%
Ti 334.903†	9.4	0.00034	mg/L	0.000962	0.00034	mg/L	0.000962	287.08%
Tl 190.801†	0.8	0.00058	mg/L	0.002605	0.00058	mg/L	0.002605	450.94%
V 292.402†	-9.6	-0.00003	mg/L	0.000136	-0.00003	mg/L	0.000136	529.36%
Zn 206.200†	1.6	0.00140	mg/L	0.001038	0.00140	mg/L	0.001038	73.96%

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Analysis Begun

Start Time: 9/11/2006 10:11:17 AM Plasma On Time: 9/11/2006 8:23:40 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060911
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 8 Autosampler Location:
Sample ID: Calib Blank 1 Date Collected: 9/11/2006 10:11:17 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1915421.5	15327.29	0.80%	98.47	%
ScR 361.383	210317.4	805.52	0.38%	102.0	%
Ag 328.068†	289.7	57.94	20.00%	[0.00]	mg/L
Al 308.215†	-48.3	26.67	55.19%	[0.00]	mg/L
As 188.979†	35.0	2.29	6.55%	[0.00]	mg/L
B 249.677†	-28.0	8.61	30.79%	[0.00]	mg/L
Ba 233.527†	34.7	1.52	4.39%	[0.00]	mg/L
Be 313.042†	933.0	11.00	1.18%	[0.00]	mg/L
Ca 317.933†	364.3	31.86	8.74%	[0.00]	mg/L
Cd 228.802†	185.9	8.17	4.39%	[0.00]	mg/L
Co 228.616†	58.0	9.94	17.13%	[0.00]	mg/L
Cr 267.716†	52.2	1.80	3.44%	[0.00]	mg/L
Cu 324.752†	3291.6	11.25	0.34%	[0.00]	mg/L
Fe 273.955†	-39.9	3.11	7.79%	[0.00]	mg/L
K 766.490†	2692.1	72.05	2.68%	[0.00]	mg/L
Mg 279.077†	-158.3	16.32	10.31%	[0.00]	mg/L
Mn 257.610†	42.3	3.29	7.76%	[0.00]	mg/L
Mo 202.031†	-72.4	4.52	6.24%	[0.00]	mg/L
Na 589.592†	-390.2	23.55	6.04%	[0.00]	mg/L
Na 330.237†	-193.4	24.18	12.50%	[0.00]	mg/L
Ni 231.604†	4.7	3.69	78.37%	[0.00]	mg/L
Pb 220.353†	165.7	5.68	3.43%	[0.00]	mg/L
Sb 206.836†	17.4	2.14	12.29%	[0.00]	mg/L
Se 196.026†	-79.4	6.86	8.64%	[0.00]	mg/L
Si 288.158†	-38.6	10.33	26.77%	[0.00]	mg/L
Sn 189.927†	21.4	5.22	24.42%	[0.00]	mg/L
Sr 421.552†	639.2	37.28	5.83%	[0.00]	mg/L
Ti 334.903†	-225.4	28.28	12.55%	[0.00]	mg/L
Tl 190.801†	-11.2	1.90	16.89%	[0.00]	mg/L
V 292.402†	-409.9	60.40	14.74%	[0.00]	mg/L
Zn 206.200†	-2.5	1.28	51.15%	[0.00]	mg/L

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Analysis Begun

Start Time: 9/11/2006 10:15:55 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 9/11/2006 8:23:40 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060911
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 9/11/2006 10:15:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1873844.0	96.34	%	0.007				0.01%
ScR 361.383	206629.2	100.2	%	0.50				0.50%
Ag 328.068†	362346.6	0.9928	mg/L	0.00032	0.9928	mg/L	0.00032	0.03%
Al 308.215†	2845.3	1.974	mg/L	0.0166	1.974	mg/L	0.0166	0.84%
As 188.979†	2422.6	2.005	mg/L	0.0080	2.005	mg/L	0.0080	0.40%
B 249.677†	2883.2	0.9608	mg/L	0.00485	0.9608	mg/L	0.00485	0.51%
Ba 233.527†	3422.7	0.9543	mg/L	0.00572	0.9543	mg/L	0.00572	0.60%
Be 313.042†	608015.2	0.9685	mg/L	0.00122	0.9685	mg/L	0.00122	0.13%
Ca 317.933†	47208.6	2.013	mg/L	0.0058	2.013	mg/L	0.0058	0.29%
Cd 228.802†	39172.2	1.024	mg/L	0.0026	1.024	mg/L	0.0026	0.26%
Co 228.616†	43489.7	0.9898	mg/L	0.00380	0.9898	mg/L	0.00380	0.38%
Cr 267.716†	7963.7	0.9444	mg/L	0.00535	0.9444	mg/L	0.00535	0.57%
Cu 324.752†	331450.3	1.018	mg/L	0.0009	1.018	mg/L	0.0009	0.09%
Fe 273.955†	2103.0	2.000	mg/L	0.0128	2.000	mg/L	0.0128	0.64%
K 766.490†	32556.9	19.34	mg/L	0.093	19.34	mg/L	0.093	0.48%
Mg 279.077†	3306.6	2.027	mg/L	0.0014	2.027	mg/L	0.0014	0.07%
Mn 257.610†	26662.2	0.9271	mg/L	0.00546	0.9271	mg/L	0.00546	0.59%
Mo 202.031†	12297.4	0.9948	mg/L	0.00529	0.9948	mg/L	0.00529	0.53%
Na 589.592†	330224.7	49.95	mg/L	0.131	49.95	mg/L	0.131	0.26%
Na 330.237†	1493.1	49.36	mg/L	0.606	49.36	mg/L	0.606	1.23%
Ni 231.604†	2039.2	0.9741	mg/L	0.00495	0.9741	mg/L	0.00495	0.51%
Pb 220.353†	23467.2	1.989	mg/L	0.0035	1.989	mg/L	0.0035	0.17%
Sb 206.836†	2804.6	2.075	mg/L	0.0079	2.075	mg/L	0.0079	0.38%
Se 196.026†	3642.5	2.010	mg/L	0.0101	2.010	mg/L	0.0101	0.50%
Si 288.158†	3171.5	1.883	mg/L	0.0101	1.883	mg/L	0.0101	0.54%
Sn 189.927†	5521.1	0.9822	mg/L	0.00341	0.9822	mg/L	0.00341	0.35%
Sr 421.552†	716482.4	0.9827	mg/L	0.00291	0.9827	mg/L	0.00291	0.30%
Ti 334.903†	28239.7	1.013	mg/L	0.0026	1.013	mg/L	0.0026	0.25%
Tl 190.801†	2652.7	1.984	mg/L	0.0056	1.984	mg/L	0.0056	0.28%
V 292.402†	344752.4	1.012	mg/L	0.0007	1.012	mg/L	0.0007	0.07%
Zn 206.200†	1096.3	0.9736	mg/L	0.00443	0.9736	mg/L	0.00443	0.45%

Sequence No.: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/11/2006 10:22:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1953479.3	100.4	%	0.43				0.42%
ScR 361.383	208909.5	101.3	%	0.97				0.96%
Ag 328.068†	33.8	0.00009	mg/L	0.000139	0.00009	mg/L	0.000139	150.80%
Al 308.215†	18.4	0.01298	mg/L	0.012691	0.01298	mg/L	0.012691	97.81%
As 188.979†	0.8	0.00070	mg/L	0.002461	0.00070	mg/L	0.002461	353.73%
B 249.677†	15.0	0.00499	mg/L	0.002224	0.00499	mg/L	0.002224	44.60%
Ba 233.527†	1.7	0.00048	mg/L	0.000428	0.00048	mg/L	0.000428	89.96%
Be 313.042†	33.6	0.00005	mg/L	0.000033	0.00005	mg/L	0.000033	60.75%
Ca 317.933†	-5.3	-0.00023	mg/L	0.001548	-0.00023	mg/L	0.001548	679.33%
Cd 228.802†	-5.2	-0.00014	mg/L	0.000136	-0.00014	mg/L	0.000136	99.27%
Co 228.616†	-12.2	-0.00028	mg/L	0.000025	-0.00028	mg/L	0.000025	8.81%
Cr 267.716†	2.5	0.00030	mg/L	0.000873	0.00030	mg/L	0.000873	294.31%
Cu 324.752†	-104.3	-0.00032	mg/L	0.000156	-0.00032	mg/L	0.000156	48.63%
Fe 273.955†	-1.5	-0.00141	mg/L	0.001189	-0.00141	mg/L	0.001189	84.52%
K 766.490†	14.6	0.00868	mg/L	0.018538	0.00868	mg/L	0.018538	213.56%
Mg 279.077†	21.9	0.01343	mg/L	0.008515	0.01343	mg/L	0.008515	63.42%
Mn 257.610†	3.5	0.00012	mg/L	0.000067	0.00012	mg/L	0.000067	55.07%
Mo 202.031†	7.6	0.00061	mg/L	0.000386	0.00061	mg/L	0.000386	63.01%
Na 589.592†	61.1	0.00925	mg/L	0.006353	0.00925	mg/L	0.006353	68.69%
Na 330.237†	15.0	0.4947	mg/L	0.25659	0.4947	mg/L	0.25659	51.87%
Ni 231.604†	-0.9	-0.00043	mg/L	0.000924	-0.00043	mg/L	0.000924	215.99%
Pb 220.353†	-6.1	-0.00051	mg/L	0.000513	-0.00051	mg/L	0.000513	100.52%
Sb 206.836†	1.7	0.00129	mg/L	0.001437	0.00129	mg/L	0.001437	111.76%
Se 196.026†	7.5	0.00413	mg/L	0.005721	0.00413	mg/L	0.005721	138.43%
Si 288.158†	9.4	0.00558	mg/L	0.005239	0.00558	mg/L	0.005239	93.85%
Sn 189.927†	9.5	0.00169	mg/L	0.000240	0.00169	mg/L	0.000240	14.18%
Sr 421.552†	9.8	0.00001	mg/L	0.000015	0.00001	mg/L	0.000015	110.49%
Ti 334.903†	-4.8	-0.00017	mg/L	0.002027	-0.00017	mg/L	0.002027	>999.9%
Tl 190.801†	-1.0	-0.00075	mg/L	0.002711	-0.00075	mg/L	0.002711	360.04%
V 292.402†	17.3	0.00005	mg/L	0.000050	0.00005	mg/L	0.000050	93.40%
Zn 206.200†	0.5	0.00047	mg/L	0.001883	0.00047	mg/L	0.001883	401.19%

Sequence No.: 3
Sample ID: CRI
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 8
Date Collected: 9/11/2006 10:28:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1945399.4	100.0	%	0.34				0.34%
ScR 361.383	212734.3	103.1	%	0.76				0.74%
Ag 328.068†	1103.7	0.00303	mg/L	0.000070	0.00303	mg/L	0.000070	2.30%
Al 308.215†	83.1	0.05855	mg/L	0.011178	0.05855	mg/L	0.011178	19.09%
As 188.979†	63.6	0.05270	mg/L	0.000683	0.05270	mg/L	0.000683	1.30%
B 249.677†	60.2	0.02001	mg/L	0.000902	0.02001	mg/L	0.000902	4.51%
Ba 233.527†	11.6	0.00322	mg/L	0.000564	0.00322	mg/L	0.000564	17.52%
Be 313.042†	651.3	0.00103	mg/L	0.000048	0.00103	mg/L	0.000048	4.64%
Ca 317.933†	1242.4	0.05298	mg/L	0.000175	0.05298	mg/L	0.000175	0.33%
Cd 228.802†	75.8	0.00191	mg/L	0.000037	0.00191	mg/L	0.000037	1.95%
Co 228.616†	124.3	0.00282	mg/L	0.000066	0.00282	mg/L	0.000066	2.34%
Cr 267.716†	45.1	0.00534	mg/L	0.000538	0.00534	mg/L	0.000538	10.06%
Cu 324.752†	620.8	0.00191	mg/L	0.000184	0.00191	mg/L	0.000184	9.65%
Fe 273.955†	53.9	0.05129	mg/L	0.002133	0.05129	mg/L	0.002133	4.16%
K 766.490†	856.9	0.5092	mg/L	0.01869	0.5092	mg/L	0.01869	3.67%
Mg 279.077†	101.7	0.06225	mg/L	0.015862	0.06225	mg/L	0.015862	25.48%
Mn 257.610†	30.0	0.00105	mg/L	0.000161	0.00105	mg/L	0.000161	15.37%
Mo 202.031†	60.7	0.00491	mg/L	0.000243	0.00491	mg/L	0.000243	4.96%
Na 589.592†	3632.0	0.5494	mg/L	0.00931	0.5494	mg/L	0.00931	1.69%
Na 330.237†	30.7	1.014	mg/L	0.6372	1.014	mg/L	0.6372	62.85%
Ni 231.604†	23.0	0.01099	mg/L	0.002555	0.01099	mg/L	0.002555	23.24%
Pb 220.353†	239.9	0.02034	mg/L	0.000094	0.02034	mg/L	0.000094	0.46%
Sb 206.836†	72.5	0.05363	mg/L	0.001304	0.05363	mg/L	0.001304	2.43%
Se 196.026†	92.8	0.05121	mg/L	0.003213	0.05121	mg/L	0.003213	6.27%
Si 288.158†	136.9	0.08116	mg/L	0.004582	0.08116	mg/L	0.004582	5.65%
Sn 189.927†	59.5	0.01065	mg/L	0.000576	0.01065	mg/L	0.000576	5.41%
Sr 421.552†	738.8	0.00101	mg/L	0.000018	0.00101	mg/L	0.000018	1.79%
Ti 334.903†	136.5	0.00489	mg/L	0.000508	0.00489	mg/L	0.000508	10.37%
Tl 190.801†	71.4	0.05351	mg/L	0.002259	0.05351	mg/L	0.002259	4.22%
V 292.402†	1071.9	0.00316	mg/L	0.000088	0.00316	mg/L	0.000088	2.78%
Zn 206.200†	5.9	0.00523	mg/L	0.001086	0.00523	mg/L	0.001086	20.76%

Sequence No.: 4
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 9
Date Collected: 9/11/2006 10:34:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1778179.4	91.42	%	0.155				0.17%
ScR 361.383	204906.4	99.34	%	0.546				0.55%
Ag 328.068†	-3764.8	-0.00216	mg/L	0.000195	-0.00216	mg/L	0.000195	9.00%
Al 308.215†	279974.8	197.9	mg/L	0.03	197.9	mg/L	0.03	0.02%
As 188.979†	32.1	0.00335	mg/L	0.003477	0.00335	mg/L	0.003477	103.90%
B 249.677†	-2.1	-0.00072	mg/L	0.001354	-0.00072	mg/L	0.001354	187.76%
Ba 233.527†	47.4	-0.00091	mg/L	0.000505	-0.00091	mg/L	0.000505	55.60%
Be 313.042†	22.7	0.00003	mg/L	0.000039	0.00003	mg/L	0.000039	114.44%
Ca 317.933†	2296984.4	97.95	mg/L	0.144	97.95	mg/L	0.144	0.15%
Cd 228.802†	44.9	-0.00084	mg/L	0.000117	-0.00084	mg/L	0.000117	13.92%
Co 228.616†	-71.7	-0.00287	mg/L	0.000224	-0.00287	mg/L	0.000224	7.79%
Cr 267.716†	-33.8	-0.00308	mg/L	0.001357	-0.00308	mg/L	0.001357	44.10%
Cu 324.752†	-5880.2	-0.00038	mg/L	0.000304	-0.00038	mg/L	0.000304	81.07%
Fe 273.955†	206007.9	196.1	mg/L	1.42	196.1	mg/L	1.42	0.72%
K 766.490†	114.8	0.06819	mg/L	0.032048	0.06819	mg/L	0.032048	47.00%
Mg 279.077†	165739.3	101.3	mg/L	0.15	101.3	mg/L	0.15	0.15%
Mn 257.610†	85.6	-0.00073	mg/L	0.000099	-0.00073	mg/L	0.000099	13.48%
Mo 202.031†	33.0	0.00465	mg/L	0.000427	0.00465	mg/L	0.000427	9.18%
Na 589.592†	375.6	0.05682	mg/L	0.003650	0.05682	mg/L	0.003650	6.42%
Na 330.237†	37.2	0.3542	mg/L	0.75949	0.3542	mg/L	0.75949	214.44%
Ni 231.604†	-5.2	-0.00245	mg/L	0.002403	-0.00245	mg/L	0.002403	98.05%
Pb 220.353†	-430.9	0.00160	mg/L	0.001818	0.00160	mg/L	0.001818	113.40%
Sb 206.836†	33.6	0.02471	mg/L	0.002981	0.02471	mg/L	0.002981	12.06%
Se 196.026†	-127.4	-0.07034	mg/L	0.004318	-0.07034	mg/L	0.004318	6.14%
Si 288.158†	31.5	0.01869	mg/L	0.000917	0.01869	mg/L	0.000917	4.90%
Sn 189.927†	-108.1	-0.00447	mg/L	0.001711	-0.00447	mg/L	0.001711	38.24%
Sr 421.552†	841.5	0.00115	mg/L	0.000037	0.00115	mg/L	0.000037	3.20%
Ti 334.903†	175.0	0.00628	mg/L	0.000727	0.00628	mg/L	0.000727	11.58%
Tl 190.801†	-32.3	-0.02416	mg/L	0.002716	-0.02416	mg/L	0.002716	11.24%
V 292.402†	518.1	0.00148	mg/L	0.000064	0.00148	mg/L	0.000064	4.29%
Zn 206.200†	1.7	-0.00244	mg/L	0.002307	-0.00244	mg/L	0.002307	94.62%

Sequence No.: 5
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 10
Date Collected: 9/11/2006 10:41:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1770952.0	91.05	%	0.236				0.26%
ScR 361.383	202334.7	98.09	%	0.397				0.41%
Ag 328.068†	387426.5	1.070	mg/L	0.0033	1.070	mg/L	0.0033	0.31%
Al 308.215†	282312.6	199.5	mg/L	0.23	199.5	mg/L	0.23	0.12%
As 188.979†	1301.4	1.055	mg/L	0.0021	1.055	mg/L	0.0021	0.20%
B 249.677†	-18.4	-0.00439	mg/L	0.003721	-0.00439	mg/L	0.003721	84.76%
Ba 233.527†	3543.8	0.9741	mg/L	0.00269	0.9741	mg/L	0.00269	0.28%
Be 313.042†	645036.3	1.027	mg/L	0.0016	1.027	mg/L	0.0016	0.16%
Ca 317.933†	2298283.8	98.00	mg/L	0.143	98.00	mg/L	0.143	0.15%
Cd 228.802†	39820.8	1.040	mg/L	0.0027	1.040	mg/L	0.0027	0.26%
Co 228.616†	42671.8	0.9713	mg/L	0.00414	0.9713	mg/L	0.00414	0.43%
Cr 267.716†	8050.6	0.9561	mg/L	0.00394	0.9561	mg/L	0.00394	0.41%
Cu 324.752†	335976.7	1.051	mg/L	0.0030	1.051	mg/L	0.0030	0.29%
Fe 273.955†	206228.3	196.3	mg/L	0.38	196.3	mg/L	0.38	0.19%
K 766.490†	290.0	0.1723	mg/L	0.02538	0.1723	mg/L	0.02538	14.73%
Mg 279.077†	165377.4	101.1	mg/L	0.03	101.1	mg/L	0.03	0.02%
Mn 257.610†	27091.4	0.9381	mg/L	0.00380	0.9381	mg/L	0.00380	0.40%
Mo 202.031†	27.4	0.00424	mg/L	0.000199	0.00424	mg/L	0.000199	4.70%
Na 589.592†	326.6	0.04941	mg/L	0.002647	0.04941	mg/L	0.002647	5.36%
Na 330.237†	43.5	0.3287	mg/L	0.14899	0.3287	mg/L	0.14899	45.33%
Ni 231.604†	1959.3	0.9354	mg/L	0.00654	0.9354	mg/L	0.00654	0.70%
Pb 220.353†	11003.6	0.9716	mg/L	0.00102	0.9716	mg/L	0.00102	0.10%
Sb 206.836†	1444.7	1.056	mg/L	0.0040	1.056	mg/L	0.0040	0.38%
Se 196.026†	1755.0	0.9680	mg/L	0.00674	0.9680	mg/L	0.00674	0.70%
Si 288.158†	36.2	0.02349	mg/L	0.005100	0.02349	mg/L	0.005100	21.71%
Sn 189.927†	-121.8	-0.00492	mg/L	0.000952	-0.00492	mg/L	0.000952	19.34%
Sr 421.552†	991.9	0.00136	mg/L	0.000053	0.00136	mg/L	0.000053	3.91%
Ti 334.903†	159.4	0.00552	mg/L	0.000602	0.00552	mg/L	0.000602	10.91%
Tl 190.801†	1298.1	0.9663	mg/L	0.00308	0.9663	mg/L	0.00308	0.32%
V 292.402†	357811.8	1.050	mg/L	0.0030	1.050	mg/L	0.0030	0.29%
Zn 206.200†	1043.6	0.9231	mg/L	0.00588	0.9231	mg/L	0.00588	0.64%

Sequence No.: 6
Sample ID: CV 2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/11/2006 10:47:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1867105.4	95.99	%	0.479				0.50%
ScR 361.383	206233.0	99.98	%	0.198				0.20%
Ag 328.068†	364162.3	0.9978	mg/L	0.00090	0.9978	mg/L	0.00090	0.09%
Al 308.215†	2846.6	1.974	mg/L	0.0199	1.974	mg/L	0.0199	1.01%
As 188.979†	2425.3	2.007	mg/L	0.0150	2.007	mg/L	0.0150	0.75%
B 249.677†	2847.9	0.9491	mg/L	0.00266	0.9491	mg/L	0.00266	0.28%
Ba 233.527†	3393.1	0.9460	mg/L	0.00441	0.9460	mg/L	0.00441	0.47%
Be 313.042†	606863.3	0.9666	mg/L	0.00218	0.9666	mg/L	0.00218	0.23%
Ca 317.933†	47180.1	2.012	mg/L	0.0045	2.012	mg/L	0.0045	0.22%
Cd 228.802†	39425.2	1.030	mg/L	0.0009	1.030	mg/L	0.0009	0.09%
Co 228.616†	43837.2	0.9977	mg/L	0.00289	0.9977	mg/L	0.00289	0.29%
Cr 267.716†	7905.9	0.9375	mg/L	0.00423	0.9375	mg/L	0.00423	0.45%
Cu 324.752†	332676.8	1.022	mg/L	0.0011	1.022	mg/L	0.0011	0.10%
Fe 273.955†	2086.1	1.984	mg/L	0.0105	1.984	mg/L	0.0105	0.53%
K 766.490†	32727.7	19.45	mg/L	0.125	19.45	mg/L	0.125	0.65%
Mg 279.077†	3299.7	2.023	mg/L	0.0062	2.023	mg/L	0.0062	0.31%
Mn 257.610†	26472.5	0.9205	mg/L	0.00386	0.9205	mg/L	0.00386	0.42%
Mo 202.031†	12329.6	0.9974	mg/L	0.00631	0.9974	mg/L	0.00631	0.63%
Na 589.592†	330558.2	50.00	mg/L	0.049	50.00	mg/L	0.049	0.10%
Na 330.237†	1489.2	49.23	mg/L	0.402	49.23	mg/L	0.402	0.82%
Ni 231.604†	2017.2	0.9636	mg/L	0.00505	0.9636	mg/L	0.00505	0.52%
Pb 220.353†	23600.1	2.001	mg/L	0.0028	2.001	mg/L	0.0028	0.14%
Sb 206.836†	2812.9	2.081	mg/L	0.0103	2.081	mg/L	0.0103	0.49%
Se 196.026†	3645.6	2.012	mg/L	0.0193	2.012	mg/L	0.0193	0.96%
Si 288.158†	3143.2	1.866	mg/L	0.0116	1.866	mg/L	0.0116	0.62%
Sn 189.927†	5540.8	0.9857	mg/L	0.00698	0.9857	mg/L	0.00698	0.71%
Sr 421.552†	717544.3	0.9841	mg/L	0.00060	0.9841	mg/L	0.00060	0.06%
Ti 334.903†	28167.1	1.010	mg/L	0.0024	1.010	mg/L	0.0024	0.24%
Tl 190.801†	2655.1	1.986	mg/L	0.0173	1.986	mg/L	0.0173	0.87%
V 292.402†	346744.6	1.018	mg/L	0.0003	1.018	mg/L	0.0003	0.03%
Zn 206.200†	1082.1	0.9610	mg/L	0.00809	0.9610	mg/L	0.00809	0.84%

Sequence No.: 7
Sample ID: CB 2
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/11/2006 10:53:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1930920.6	99.27	%	0.123				0.12%
ScR 361.383	210174.9	101.9	%	0.47				0.46%
Ag 328.068†	102.9	0.00028	mg/L	0.000400	0.00028	mg/L	0.000400	141.74%
Al 308.215†	37.2	0.02624	mg/L	0.007665	0.02624	mg/L	0.007665	29.21%
As 188.979†	7.2	0.00597	mg/L	0.001086	0.00597	mg/L	0.001086	18.20%
B 249.677†	7.3	0.00242	mg/L	0.001386	0.00242	mg/L	0.001386	57.35%
Ba 233.527†	1.1	0.00030	mg/L	0.000003	0.00030	mg/L	0.000003	0.92%
Be 313.042†	-1.5	0.00000	mg/L	0.000036	0.00000	mg/L	0.000036	>999.9%
Ca 317.933†	25.1	0.00107	mg/L	0.001614	0.00107	mg/L	0.001614	150.71%
Cd 228.802†	-3.5	-0.00010	mg/L	0.000041	-0.00010	mg/L	0.000041	41.37%
Co 228.616†	-9.8	-0.00022	mg/L	0.000032	-0.00022	mg/L	0.000032	14.31%
Cr 267.716†	4.5	0.00054	mg/L	0.000246	0.00054	mg/L	0.000246	45.85%
Cu 324.752†	-57.4	-0.00018	mg/L	0.000267	-0.00018	mg/L	0.000267	151.41%
Fe 273.955†	2.9	0.00277	mg/L	0.002569	0.00277	mg/L	0.002569	92.58%
K 766.490†	32.0	0.01902	mg/L	0.025785	0.01902	mg/L	0.025785	135.54%
Mg 279.077†	-0.3	-0.00018	mg/L	0.011698	-0.00018	mg/L	0.011698	>999.9%
Mn 257.610†	-1.2	-0.00004	mg/L	0.000110	-0.00004	mg/L	0.000110	265.76%
Mo 202.031†	8.4	0.00068	mg/L	0.000369	0.00068	mg/L	0.000369	54.35%
Na 589.592†	28.7	0.00433	mg/L	0.003322	0.00433	mg/L	0.003322	76.66%
Na 330.237†	7.4	0.2430	mg/L	0.54606	0.2430	mg/L	0.54606	224.69%
Ni 231.604†	-0.4	-0.00018	mg/L	0.001645	-0.00018	mg/L	0.001645	930.79%
Pb 220.353†	4.3	0.00037	mg/L	0.000677	0.00037	mg/L	0.000677	182.92%
Sb 206.836†	-1.6	-0.00114	mg/L	0.000565	-0.00114	mg/L	0.000565	49.46%
Se 196.026†	-1.9	-0.00104	mg/L	0.000965	-0.00104	mg/L	0.000965	92.73%
Si 288.158†	8.5	0.00502	mg/L	0.002488	0.00502	mg/L	0.002488	49.56%
Sn 189.927†	6.4	0.00113	mg/L	0.000421	0.00113	mg/L	0.000421	37.38%
Sr 421.552†	-16.9	-0.00002	mg/L	0.000050	-0.00002	mg/L	0.000050	215.28%
Ti 334.903†	-0.7	-0.00002	mg/L	0.001204	-0.00002	mg/L	0.001204	>999.9%
Tl 190.801†	4.8	0.00361	mg/L	0.004853	0.00361	mg/L	0.004853	134.47%
V 292.402†	66.3	0.00020	mg/L	0.000227	0.00020	mg/L	0.000227	114.64%
Zn 206.200†	0.5	0.00047	mg/L	0.001406	0.00047	mg/L	0.001406	297.11%

Analysis Begun

Start Time: 9/11/2006 10:59:29 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 9/11/2006 8:23:40 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0911.sif
Batch ID:
Results Data Set: PE060911
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: DI CHECK
Analyst: JLB
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 21
Date Collected: 9/11/2006 10:59:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1981177.1	101.9	%	0.27				0.26%
ScR 361.383	215049.7	104.3	%	1.43				1.37%
Ag 328.068†	28.3	0.00008	mg/L	0.000100	0.00008	mg/L	0.000100	128.35%
Al 308.215†	20.4	0.01442	mg/L	0.014540	0.01442	mg/L	0.014540	100.80%
As 188.979†	6.7	0.00555	mg/L	0.002132	0.00555	mg/L	0.002132	38.40%
B 249.677†	-5.3	-0.00175	mg/L	0.003625	-0.00175	mg/L	0.003625	206.72%
Ba 233.527†	-2.3	-0.00065	mg/L	0.000819	-0.00065	mg/L	0.000819	126.38%
Be 313.042†	20.2	0.00003	mg/L	0.000028	0.00003	mg/L	0.000028	86.62%
Ca 317.933†	-23.8	-0.00102	mg/L	0.001157	-0.00102	mg/L	0.001157	113.78%
Cd 228.802†	-5.4	-0.00015	mg/L	0.000114	-0.00015	mg/L	0.000114	77.26%
Co 228.616†	-13.0	-0.00030	mg/L	0.000138	-0.00030	mg/L	0.000138	46.40%
Cr 267.716†	-1.7	-0.00021	mg/L	0.001398	-0.00021	mg/L	0.001398	677.38%
Cu 324.752†	-129.4	-0.00040	mg/L	0.000143	-0.00040	mg/L	0.000143	35.90%
Fe 273.955†	2.2	0.00209	mg/L	0.003021	0.00209	mg/L	0.003021	144.20%
K 766.490†	16.3	0.00966	mg/L	0.006363	0.00966	mg/L	0.006363	65.85%
Mg 279.077†	15.9	0.00970	mg/L	0.010660	0.00970	mg/L	0.010660	109.93%
Mn 257.610†	-1.3	-0.00004	mg/L	0.000088	-0.00004	mg/L	0.000088	198.99%
Mo 202.031†	-3.6	-0.00029	mg/L	0.000198	-0.00029	mg/L	0.000198	68.62%
Na 589.592†	231.1	0.03495	mg/L	0.011140	0.03495	mg/L	0.011140	31.87%
Na 330.237†	-13.4	-0.4443	mg/L	0.21854	-0.4443	mg/L	0.21854	49.19%
Ni 231.604†	1.7	0.00080	mg/L	0.003569	0.00080	mg/L	0.003569	448.41%
Pb 220.353†	-11.7	-0.00099	mg/L	0.000334	-0.00099	mg/L	0.000334	33.86%
Sb 206.836†	-2.0	-0.00150	mg/L	0.002655	-0.00150	mg/L	0.002655	177.38%
Se 196.026†	11.5	0.00634	mg/L	0.002842	0.00634	mg/L	0.002842	44.85%
Si 288.158†	-8.5	-0.00506	mg/L	0.002237	-0.00506	mg/L	0.002237	44.18%
Sn 189.927†	-0.4	-0.00008	mg/L	0.001239	-0.00008	mg/L	0.001239	>999.9%
Sr 421.552†	-46.0	-0.00006	mg/L	0.000116	-0.00006	mg/L	0.000116	184.08%
Ti 334.903†	42.2	0.00152	mg/L	0.001133	0.00152	mg/L	0.001133	74.73%
Tl 190.801†	-0.1	-0.00007	mg/L	0.002318	-0.00007	mg/L	0.002318	>999.9%
V 292.402†	69.4	0.00020	mg/L	0.000105	0.00020	mg/L	0.000105	52.38%
Zn 206.200†	2.5	0.00227	mg/L	0.001493	0.00227	mg/L	0.001493	65.90%

Sequence No.: 2
Sample ID: JU82 MB TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 9/11/2006 11:05:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU82 MB TWC

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: JU82 MB TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1950643.6	100.3	%	0.34				0.34%
ScR 361.383	212042.3	102.8	%	1.28				1.25%
Ag 328.068†	52.4	0.00014	mg/L	0.000199	0.00014	mg/L	0.000199	138.66%
Al 308.215†	24.3	0.01717	mg/L	0.019611	0.01717	mg/L	0.019611	114.23%
As 188.979†	2.9	0.00243	mg/L	0.004787	0.00243	mg/L	0.004787	197.33%
B 249.677†	-12.0	-0.00399	mg/L	0.001166	-0.00399	mg/L	0.001166	29.22%
Ba 233.527†	-0.5	-0.00014	mg/L	0.001092	-0.00014	mg/L	0.001092	787.18%
Be 313.042†	1.1	0.00000	mg/L	0.000067	0.00000	mg/L	0.000067	>999.9%
Ca 317.933†	227.1	0.00968	mg/L	0.000767	0.00968	mg/L	0.000767	7.92%
Cd 228.802†	-2.9	-0.00008	mg/L	0.000124	-0.00008	mg/L	0.000124	157.26%
Co 228.616†	-13.8	-0.00031	mg/L	0.000031	-0.00031	mg/L	0.000031	9.79%
Cr 267.716†	4.5	0.00054	mg/L	0.000410	0.00054	mg/L	0.000410	76.09%
Cu 324.752†	-22.3	-0.00007	mg/L	0.000183	-0.00007	mg/L	0.000183	267.64%
Fe 273.955†	3.1	0.00296	mg/L	0.001875	0.00296	mg/L	0.001875	63.25%
K 766.490†	-10.3	-0.00614	mg/L	0.019697	-0.00614	mg/L	0.019697	320.88%
Mg 279.077†	13.2	0.00810	mg/L	0.007093	0.00810	mg/L	0.007093	87.53%
Mn 257.610†	-7.8	-0.00027	mg/L	0.000037	-0.00027	mg/L	0.000037	13.67%
Mo 202.031†	-2.2	-0.00017	mg/L	0.000361	-0.00017	mg/L	0.000361	206.83%
Na 589.592†	74.5	0.01127	mg/L	0.000932	0.01127	mg/L	0.000932	8.27%
Na 330.237†	20.8	0.6878	mg/L	0.19693	0.6878	mg/L	0.19693	28.63%
Ni 231.604†	-0.6	-0.00028	mg/L	0.002637	-0.00028	mg/L	0.002637	947.73%
Pb 220.353†	-5.2	-0.00044	mg/L	0.000362	-0.00044	mg/L	0.000362	82.89%
Sb 206.836†	3.5	0.00260	mg/L	0.001066	0.00260	mg/L	0.001066	40.97%
Se 196.026†	6.5	0.00359	mg/L	0.005731	0.00359	mg/L	0.005731	159.74%
Si 288.158†	17.2	0.01018	mg/L	0.004903	0.01018	mg/L	0.004903	48.17%
Sn 189.927†	5.7	0.00101	mg/L	0.000641	0.00101	mg/L	0.000641	63.37%
Sr 421.552†	-38.1	-0.00005	mg/L	0.000089	-0.00005	mg/L	0.000089	170.38%
Ti 334.903†	-11.6	-0.00042	mg/L	0.000890	-0.00042	mg/L	0.000890	212.77%
Tl 190.801†	1.8	0.00132	mg/L	0.001771	0.00132	mg/L	0.001771	134.15%
V 292.402†	43.0	0.00013	mg/L	0.000136	0.00013	mg/L	0.000136	105.18%
Zn 206.200†	2.9	0.00256	mg/L	0.003022	0.00256	mg/L	0.003022	118.03%

Sequence No.: 3
Sample ID: JT39R MB4 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 23
Date Collected: 9/11/2006 11:12:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT39R MB4 SWC

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: JT39R MB4 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1955410.2	100.5	%	0.58				0.58%
ScR 361.383	214641.8	104.1	%	0.87				0.84%
Ag 328.068†	-64.9	-0.00018	mg/L	0.000064	-0.00036	mg/L	0.000128	36.00%
Al 308.215†	35.4	0.02504	mg/L	0.007311	0.05007	mg/L	0.014622	29.20%
As 188.979†	1.2	0.00100	mg/L	0.002327	0.00200	mg/L	0.004654	233.05%
B 249.677†	0.3	0.00009	mg/L	0.000495	0.00018	mg/L	0.000990	554.67%
Ba 233.527†	0.9	0.00026	mg/L	0.000681	0.00052	mg/L	0.001361	259.94%
Be 313.042†	-27.7	-0.00004	mg/L	0.000017	-0.00009	mg/L	0.000034	38.21%
Ca 317.933†	1160.7	0.04949	mg/L	0.001477	0.09899	mg/L	0.002954	2.98%
Cd 228.802†	-4.1	-0.00011	mg/L	0.000065	-0.00022	mg/L	0.000131	60.52%
Co 228.616†	-8.4	-0.00019	mg/L	0.000098	-0.00039	mg/L	0.000197	50.87%
Cr 267.716†	-4.4	-0.00053	mg/L	0.001184	-0.00105	mg/L	0.002367	224.60%
Cu 324.752†	-18.0	-0.00006	mg/L	0.000107	-0.00011	mg/L	0.000213	192.14%
Fe 273.955†	3.5	0.00337	mg/L	0.001444	0.00675	mg/L	0.002889	42.82%
K 766.490†	-11.9	-0.00706	mg/L	0.017151	-0.01413	mg/L	0.034303	242.83%
Mg 279.077†	41.7	0.02550	mg/L	0.009787	0.05100	mg/L	0.019574	38.38%
Mn 257.610†	0.0	0.00000	mg/L	0.000067	0.00000	mg/L	0.000135	>999.9%
Mo 202.031†	-1.9	-0.00015	mg/L	0.000238	-0.00030	mg/L	0.000476	157.74%
Na 589.592†	-15.7	-0.00238	mg/L	0.003278	-0.00475	mg/L	0.006556	137.95%
Na 330.237†	-3.7	-0.1234	mg/L	0.66991	-0.2468	mg/L	1.33981	542.94%
Ni 231.604†	-1.3	-0.00060	mg/L	0.003017	-0.00120	mg/L	0.006034	502.63%
Pb 220.353†	-6.5	-0.00055	mg/L	0.000444	-0.00109	mg/L	0.000888	81.31%
Sb 206.836†	-3.1	-0.00225	mg/L	0.002969	-0.00450	mg/L	0.005938	132.05%
Se 196.026†	-4.6	-0.00251	mg/L	0.004580	-0.00503	mg/L	0.009160	182.25%
Si 288.158†	2.2	0.00129	mg/L	0.000595	0.00259	mg/L	0.001190	46.01%
Sn 189.927†	1.5	0.00027	mg/L	0.000579	0.00055	mg/L	0.001158	212.48%
Sr 421.552†	141.3	0.00019	mg/L	0.000037	0.00039	mg/L	0.000075	19.35%
Ti 334.903†	20.7	0.00074	mg/L	0.000746	0.00149	mg/L	0.001493	100.26%
Tl 190.801†	0.2	0.00018	mg/L	0.002640	0.00036	mg/L	0.005280	>999.9%
V 292.402†	-2.1	-0.00001	mg/L	0.000259	-0.00002	mg/L	0.000519	>999.9%
Zn 206.200†	8.0	0.00708	mg/L	0.000880	0.01417	mg/L	0.001760	12.42%

Sequence No.: 4
Sample ID: JS74R MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 24
Date Collected: 9/11/2006 11:18:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JS74R MB1 SWC

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: JS74R MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1965918.4	101.1	%	0.49				0.49%
ScR 361.383	214783.8	104.1	%	0.51				0.49%
Ag 328.068†	51.0	0.00014	mg/L	0.000105	0.00028	mg/L	0.000209	74.96%
Al 308.215†	78.4	0.05537	mg/L	0.001031	0.1107	mg/L	0.00206	1.86%
As 188.979†	-1.6	-0.00134	mg/L	0.001001	-0.00268	mg/L	0.002001	74.55%
B 249.677†	2.3	0.00078	mg/L	0.002597	0.00155	mg/L	0.005194	334.45%
Ba 233.527†	-4.5	-0.00126	mg/L	0.001096	-0.00253	mg/L	0.002192	86.72%
Be 313.042†	-41.6	-0.00007	mg/L	0.000029	-0.00013	mg/L	0.000057	43.04%
Ca 317.933†	2152.9	0.09181	mg/L	0.000668	0.1836	mg/L	0.00134	0.73%
Cd 228.802†	-7.4	-0.00019	mg/L	0.000232	-0.00039	mg/L	0.000463	120.22%
Co 228.616†	-2.8	-0.00007	mg/L	0.000197	-0.00013	mg/L	0.000394	296.69%
Cr 267.716†	-2.4	-0.00029	mg/L	0.000284	-0.00059	mg/L	0.000568	96.95%
Cu 324.752†	-103.5	-0.00032	mg/L	0.000197	-0.00064	mg/L	0.000395	61.94%
Fe 273.955†	0.5	0.00048	mg/L	0.002728	0.00095	mg/L	0.005455	572.32%
K 766.490†	-48.2	-0.02864	mg/L	0.026128	-0.05728	mg/L	0.052257	91.23%
Mg 279.077†	27.2	0.01666	mg/L	0.010001	0.03332	mg/L	0.020002	60.02%
Mn 257.610†	-2.7	-0.00009	mg/L	0.000158	-0.00019	mg/L	0.000316	166.81%
Mo 202.031†	-0.2	-0.00002	mg/L	0.000043	-0.00003	mg/L	0.000085	282.11%
Na 589.592†	-13.7	-0.00208	mg/L	0.006678	-0.00415	mg/L	0.013357	321.55%
Na 330.237†	7.3	0.2392	mg/L	0.48014	0.4784	mg/L	0.96027	200.71%
Ni 231.604†	-1.9	-0.00090	mg/L	0.001341	-0.00179	mg/L	0.002681	149.44%
Pb 220.353†	-6.9	-0.00058	mg/L	0.000066	-0.00115	mg/L	0.000131	11.40%
Sb 206.836†	-0.8	-0.00061	mg/L	0.000525	-0.00123	mg/L	0.001049	85.64%
Se 196.026†	5.7	0.00316	mg/L	0.003754	0.00633	mg/L	0.007508	118.63%
Si 288.158†	5.2	0.00307	mg/L	0.004338	0.00614	mg/L	0.008675	141.32%
Sn 189.927†	-0.5	-0.00007	mg/L	0.000541	-0.00014	mg/L	0.001082	766.59%
Sr 421.552†	134.0	0.00018	mg/L	0.000068	0.00037	mg/L	0.000135	36.79%
Ti 334.903†	65.5	0.00235	mg/L	0.000662	0.00470	mg/L	0.001325	28.17%
Tl 190.801†	-0.9	-0.00064	mg/L	0.002018	-0.00128	mg/L	0.004036	314.41%
V 292.402†	58.4	0.00017	mg/L	0.000119	0.00033	mg/L	0.000238	71.25%
Zn 206.200†	12.6	0.01120	mg/L	0.001538	0.02240	mg/L	0.003075	13.73%

Sequence No.: 5
Sample ID: JU43 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 9/11/2006 11:25:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 MB1 SWC

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: JU43 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1963270.6	100.9	%	0.32				0.32%
ScR 361.383	216035.3	104.7	%	0.62				0.59%
Ag 328.068†	79.9	0.00022	mg/L	0.000134	0.00044	mg/L	0.000267	61.03%
Al 308.215†	46.0	0.03252	mg/L	0.019032	0.06503	mg/L	0.038064	58.53%
As 188.979†	0.3	0.00023	mg/L	0.002067	0.00047	mg/L	0.004133	884.94%
B 249.677†	-6.5	-0.00215	mg/L	0.000675	-0.00431	mg/L	0.001350	31.35%
Ba 233.527†	1.8	0.00049	mg/L	0.001024	0.00098	mg/L	0.002048	209.80%
Be 313.042†	8.6	0.00001	mg/L	0.000022	0.00003	mg/L	0.000045	164.55%
Ca 317.933†	932.1	0.03975	mg/L	0.001352	0.07950	mg/L	0.002704	3.40%
Cd 228.802†	-6.0	-0.00016	mg/L	0.000097	-0.00032	mg/L	0.000194	61.32%
Co 228.616†	-5.9	-0.00014	mg/L	0.000253	-0.00027	mg/L	0.000507	186.83%
Cr 267.716†	-0.6	-0.00007	mg/L	0.000474	-0.00014	mg/L	0.000947	653.40%
Cu 324.752†	-14.5	-0.00004	mg/L	0.000074	-0.00009	mg/L	0.000148	166.84%
Fe 273.955†	5.4	0.00517	mg/L	0.000282	0.01034	mg/L	0.000565	5.46%
K 766.490†	-63.0	-0.03743	mg/L	0.003803	-0.07487	mg/L	0.007606	10.16%
Mg 279.077†	24.9	0.01524	mg/L	0.007822	0.03047	mg/L	0.015644	51.34%
Mn 257.610†	-1.7	-0.00006	mg/L	0.000079	-0.00012	mg/L	0.000158	129.93%
Mo 202.031†	-1.7	-0.00014	mg/L	0.000166	-0.00027	mg/L	0.000332	120.98%
Na 589.592†	-0.6	-0.00010	mg/L	0.004594	-0.00019	mg/L	0.009189	>999.9%
Na 330.237†	-5.4	-0.1814	mg/L	0.59230	-0.3627	mg/L	1.18460	326.60%
Ni 231.604†	-1.8	-0.00087	mg/L	0.001977	-0.00175	mg/L	0.003953	226.29%
Pb 220.353†	-11.3	-0.00095	mg/L	0.000232	-0.00191	mg/L	0.000465	24.39%
Sb 206.836†	-1.4	-0.00106	mg/L	0.002526	-0.00211	mg/L	0.005052	238.90%
Se 196.026†	1.0	0.00057	mg/L	0.007593	0.00115	mg/L	0.015187	>999.9%
Si 288.158†	6.1	0.00362	mg/L	0.007345	0.00724	mg/L	0.014691	202.97%
Sn 189.927†	3.6	0.00064	mg/L	0.000604	0.00129	mg/L	0.001207	93.76%
Sr 421.552†	106.9	0.00015	mg/L	0.000062	0.00029	mg/L	0.000125	42.62%
Ti 334.903†	39.0	0.00140	mg/L	0.000459	0.00280	mg/L	0.000918	32.77%
Tl 190.801†	0.2	0.00017	mg/L	0.004271	0.00034	mg/L	0.008543	>999.9%
V 292.402†	34.0	0.00010	mg/L	0.000105	0.00020	mg/L	0.000210	107.67%
Zn 206.200†	5.5	0.00490	mg/L	0.000949	0.00981	mg/L	0.001899	19.37%

Sequence No.: 6
Sample ID: JT86 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 9/11/2006 11:31:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 MB1 SWC

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: JT86 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1932587.1	99.36	%	0.647				0.65%
ScR 361.383	210987.8	102.3	%	0.15				0.14%
Ag 328.068†	108.9	0.00030	mg/L	0.000152	0.00060	mg/L	0.000303	50.79%
Al 308.215†	111.7	0.07893	mg/L	0.006973	0.1579	mg/L	0.01395	8.84%
As 188.979†	3.4	0.00279	mg/L	0.004338	0.00559	mg/L	0.008676	155.24%
B 249.677†	-0.0	-0.00001	mg/L	0.000136	-0.00002	mg/L	0.000271	>999.9%
Ba 233.527†	5.3	0.00148	mg/L	0.000620	0.00297	mg/L	0.001240	41.79%
Be 313.042†	-2.7	0.00000	mg/L	0.000043	-0.00001	mg/L	0.000086	985.95%
Ca 317.933†	3137.8	1.1338	mg/L	0.00102	0.2676	mg/L	0.00203	0.76%
Cd 228.802†	-7.1	-0.00019	mg/L	0.000053	-0.00038	mg/L	0.000105	27.66%
Co 228.616†	-5.6	-0.00013	mg/L	0.000159	-0.00026	mg/L	0.000317	120.13%
Cr 267.716†	-6.1	-0.00073	mg/L	0.000593	-0.00146	mg/L	0.001185	81.07%
Cu 324.752†	-28.6	-0.00009	mg/L	0.000105	-0.00018	mg/L	0.000211	119.42%
Fe 273.955†	4.7	0.00446	mg/L	0.002164	0.00892	mg/L	0.004328	48.52%
K 766.490†	-28.7	-0.01707	mg/L	0.032148	-0.03413	mg/L	0.064296	188.37%
Mg 279.077†	47.1	0.02884	mg/L	0.012006	0.05768	mg/L	0.024012	41.63%
Mn 257.610†	-0.1	0.00000	mg/L	0.000076	-0.00001	mg/L	0.000152	>999.9%
Mo 202.031†	-0.7	-0.00006	mg/L	0.000394	-0.00012	mg/L	0.000788	668.27%
Na 589.592†	5.3	0.00080	mg/L	0.003014	0.00159	mg/L	0.006028	378.18%
Na 330.237†	3.1	0.09860	mg/L	0.359768	0.1972	mg/L	0.71954	364.87%
Ni 231.604†	0.2	0.00009	mg/L	0.001417	0.00017	mg/L	0.002835	>999.9%
Pb 220.353†	-12.6	-0.00105	mg/L	0.000203	-0.00210	mg/L	0.000406	19.30%
Sb 206.836†	-0.8	-0.00061	mg/L	0.001821	-0.00123	mg/L	0.003642	297.24%
Se 196.026†	1.4	0.00075	mg/L	0.004180	0.00151	mg/L	0.008360	555.16%
Si 288.158†	5.1	0.00300	mg/L	0.003135	0.00600	mg/L	0.006269	104.57%
Sn 189.927†	-2.8	-0.00047	mg/L	0.000455	-0.00093	mg/L	0.000910	97.54%
Sr 421.552†	148.9	0.00020	mg/L	0.000064	0.00041	mg/L	0.000128	31.32%
Ti 334.903†	90.5	0.00325	mg/L	0.000926	0.00650	mg/L	0.001852	28.49%
Tl 190.801†	-1.2	-0.00093	mg/L	0.001719	-0.00186	mg/L	0.003438	184.98%
V 292.402†	2.2	0.00000	mg/L	0.000042	0.00000	mg/L	0.000085	>999.9%
Zn 206.200†	22.1	0.01961	mg/L	0.000896	0.03923	mg/L	0.001791	4.57%

Sequence No.: 7
Sample ID: QC 7M
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 9/11/2006 11:37:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC 7M

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: QC 7M

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1924696.8	98.95	%	0.236				0.24%
ScR 361.383	212387.8	103.0	%	0.10				0.10%
Ag 328.068†	358663.3	0.9826	mg/L	0.00219	0.9826	mg/L	0.00219	0.22%
Al 308.215†	2863.3	2.024	mg/L	0.0126	2.024	mg/L	0.0126	0.62%
As 188.979†	3.9	0.00279	mg/L	0.004171	0.00279	mg/L	0.004171	149.57%
B 249.677†	5940.8	1.973	mg/L	0.0036	1.973	mg/L	0.0036	0.18%
Ba 233.527†	6924.2	1.932	mg/L	0.0068	1.932	mg/L	0.0068	0.35%
Be 313.042†	-3.3	-0.00001	mg/L	0.000048	-0.00001	mg/L	0.000048	913.82%
Ca 317.933†	30.9	0.00132	mg/L	0.001306	0.00132	mg/L	0.001306	99.20%
Cd 228.802†	-2.9	-0.00017	mg/L	0.000042	-0.00017	mg/L	0.000042	24.71%
Co 228.616†	20.8	0.00004	mg/L	0.000450	0.00004	mg/L	0.000450	>999.9%
Cr 267.716†	-0.8	-0.00010	mg/L	0.000469	-0.00010	mg/L	0.000469	483.11%
Cu 324.752†	-18.9	-0.00006	mg/L	0.000052	-0.00006	mg/L	0.000052	90.57%
Fe 273.955†	1.6	0.00156	mg/L	0.002814	0.00156	mg/L	0.002814	180.21%
K 766.490†	33273.8	19.77	mg/L	0.014	19.77	mg/L	0.014	0.07%
Mg 279.077†	-2.1	-0.00130	mg/L	0.009292	-0.00130	mg/L	0.009292	715.40%
Mn 257.610†	-1.3	-0.00006	mg/L	0.000055	-0.00006	mg/L	0.000055	89.53%
Mo 202.031†	-3.1	-0.00021	mg/L	0.000191	-0.00021	mg/L	0.000191	92.69%
Na 589.592†	13692.4	2.071	mg/L	0.0046	2.071	mg/L	0.0046	0.22%
Na 330.237†	54.9	1.814	mg/L	0.6542	1.814	mg/L	0.6542	36.05%
Ni 231.604†	2.9	0.00137	mg/L	0.003979	0.00137	mg/L	0.003979	289.59%
Pb 220.353†	-21.3	-0.00142	mg/L	0.000869	-0.00142	mg/L	0.000869	61.34%
Sb 206.836†	-0.0	0.00000	mg/L	0.001456	0.00000	mg/L	0.001456	>999.9%
Se 196.026†	-0.4	-0.00022	mg/L	0.000034	-0.00022	mg/L	0.000034	15.36%
Si 288.158†	3140.8	1.862	mg/L	0.0045	1.862	mg/L	0.0045	0.24%
Sn 189.927†	-0.0	0.00000	mg/L	0.000211	0.00000	mg/L	0.000211	>999.9%
Sr 421.552†	-47.6	-0.00007	mg/L	0.000081	-0.00007	mg/L	0.000081	124.45%
Ti 334.903†	5.6	0.00020	mg/L	0.001510	0.00020	mg/L	0.001510	748.28%
Tl 190.801†	1.7	0.00129	mg/L	0.002710	0.00129	mg/L	0.002710	209.88%
V 292.402†	19.4	0.00006	mg/L	0.000150	0.00006	mg/L	0.000150	270.02%
Zn 206.200†	1.2	0.00108	mg/L	0.000966	0.00108	mg/L	0.000966	89.12%

Sequence No.: 8
Sample ID: SPEX21
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 9/11/2006 11:44:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SPEX21

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: SPEX21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1917635.7	98.59	%	0.328				0.33%
ScR 361.383	210762.3	102.2	%	0.58				0.57%
Ag 328.068†	-63.9	0.00001	mg/L	0.000299	0.00001	mg/L	0.000299	>999.9%
Al 308.215†	126.5	0.01458	mg/L	0.007922	0.01458	mg/L	0.007922	54.35%
As 188.979†	2387.2	1.972	mg/L	0.0119	1.972	mg/L	0.0119	0.60%
B 249.677†	7.6	0.00928	mg/L	0.000701	0.00928	mg/L	0.000701	7.55%
Ba 233.527†	0.1	-0.00076	mg/L	0.000396	-0.00076	mg/L	0.000396	52.07%
Be 313.042†	1222588.4	1.947	mg/L	0.0255	1.947	mg/L	0.0255	1.31%
Ca 317.933†	47991.4	2.046	mg/L	0.0021	2.046	mg/L	0.0021	0.10%
Cd 228.802†	77175.7	2.019	mg/L	0.0025	2.019	mg/L	0.0025	0.13%
Co 228.616†	89816.5	2.045	mg/L	0.0033	2.045	mg/L	0.0033	0.16%
Cr 267.716†	16435.7	1.949	mg/L	0.0037	1.949	mg/L	0.0037	0.19%
Cu 324.752†	647119.5	1.988	mg/L	0.0014	1.988	mg/L	0.0014	0.07%
Fe 273.955†	2098.8	1.993	mg/L	0.0125	1.993	mg/L	0.0125	0.63%
K 766.490†	-7.3	-0.00435	mg/L	0.030106	-0.00435	mg/L	0.030106	692.05%
Mg 279.077†	3390.6	2.084	mg/L	0.0142	2.084	mg/L	0.0142	0.68%
Mn 257.610†	55823.8	1.941	mg/L	0.0062	1.941	mg/L	0.0062	0.32%
Mo 202.031†	24688.2	1.997	mg/L	0.0069	1.997	mg/L	0.0069	0.34%
Na 589.592†	-77.7	-0.01175	mg/L	0.009698	-0.01175	mg/L	0.009698	82.51%
Na 330.237†	7.6	0.2685	mg/L	0.19253	0.2685	mg/L	0.19253	71.70%
Ni 231.604†	4112.5	1.963	mg/L	0.0173	1.963	mg/L	0.0173	0.88%
Pb 220.353†	23950.7	2.032	mg/L	0.0040	2.032	mg/L	0.0040	0.20%
Sb 206.836†	2760.1	2.018	mg/L	0.0081	2.018	mg/L	0.0081	0.40%
Se 196.026†	3604.9	1.988	mg/L	0.0056	1.988	mg/L	0.0056	0.28%
Si 288.158†	162.5	0.1005	mg/L	0.00377	0.1005	mg/L	0.00377	3.75%
Sn 189.927†	-32.1	-0.00195	mg/L	0.001119	-0.00195	mg/L	0.001119	57.38%
Sr 421.552†	1477049.4	2.026	mg/L	0.0220	2.026	mg/L	0.0220	1.09%
Ti 334.903†	56334.0	2.020	mg/L	0.0037	2.020	mg/L	0.0037	0.18%
Tl 190.801†	2845.6	2.125	mg/L	0.0078	2.125	mg/L	0.0078	0.37%
V 292.402†	697411.1	2.047	mg/L	0.0042	2.047	mg/L	0.0042	0.21%
Zn 206.200†	2108.9	1.873	mg/L	0.0123	1.873	mg/L	0.0123	0.66%

Sequence No.: 9
Sample ID: CV 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/11/2006 11:50:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1858910.5	95.57	%	0.260				0.27%
ScR 361.383	207593.1	100.6	%	0.47				0.47%
Ag 328.068†	365453.7	1.001	mg/L	0.0015	1.001	mg/L	0.0015	0.15%
Al 308.215†	2849.9	1.977	mg/L	0.0125	1.977	mg/L	0.0125	0.63%
As 188.979†	2450.3	2.028	mg/L	0.0081	2.028	mg/L	0.0081	0.40%
B 249.677†	2895.8	0.9650	mg/L	0.00573	0.9650	mg/L	0.00573	0.59%
Ba 233.527†	3420.6	0.9537	mg/L	0.00422	0.9537	mg/L	0.00422	0.44%
Be 313.042†	611712.2	0.9744	mg/L	0.00172	0.9744	mg/L	0.00172	0.18%
Ca 317.933†	47460.3	2.024	mg/L	0.0022	2.024	mg/L	0.0022	0.11%
Cd 228.802†	39536.2	1.033	mg/L	0.0022	1.033	mg/L	0.0022	0.21%
Co 228.616†	44116.3	1.004	mg/L	0.0052	1.004	mg/L	0.0052	0.52%
Cr 267.716†	7991.1	0.9476	mg/L	0.00452	0.9476	mg/L	0.00452	0.48%
Cu 324.752†	334186.9	1.027	mg/L	0.0002	1.027	mg/L	0.0002	0.02%
Fe 273.955†	2098.4	1.995	mg/L	0.0137	1.995	mg/L	0.0137	0.69%
K 766.490†	32591.8	19.37	mg/L	0.009	19.37	mg/L	0.009	0.05%
Mg 279.077†	3334.8	2.045	mg/L	0.0128	2.045	mg/L	0.0128	0.62%
Mn 257.610†	26690.9	0.9281	mg/L	0.00525	0.9281	mg/L	0.00525	0.57%
Mo 202.031†	12415.2	1.004	mg/L	0.0039	1.004	mg/L	0.0039	0.39%
Na 589.592†	331407.4	50.13	mg/L	0.084	50.13	mg/L	0.084	0.17%
Na 330.237†	1495.2	49.43	mg/L	0.492	49.43	mg/L	0.492	1.00%
Ni 231.604†	2051.0	0.9798	mg/L	0.00160	0.9798	mg/L	0.00160	0.16%
Pb 220.353†	23685.0	2.008	mg/L	0.0072	2.008	mg/L	0.0072	0.36%
Sb 206.836†	2819.0	2.085	mg/L	0.0024	2.085	mg/L	0.0024	0.11%
Se 196.026†	3689.7	2.036	mg/L	0.0067	2.036	mg/L	0.0067	0.33%
Si 288.158†	3158.1	1.875	mg/L	0.0127	1.875	mg/L	0.0127	0.68%
Sn 189.927†	5562.7	0.9896	mg/L	0.00126	0.9896	mg/L	0.00126	0.13%
Sr 421.552†	718777.8	0.9858	mg/L	0.00245	0.9858	mg/L	0.00245	0.25%
Ti 334.903†	28312.0	1.015	mg/L	0.0027	1.015	mg/L	0.0027	0.27%
Tl 190.801†	2668.8	1.996	mg/L	0.0019	1.996	mg/L	0.0019	0.10%
V 292.402†	347910.8	1.021	mg/L	0.0013	1.021	mg/L	0.0013	0.13%
Zn 206.200†	1098.7	0.9758	mg/L	0.00578	0.9758	mg/L	0.00578	0.59%

Sequence No.: 10
Sample ID: CB3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/11/2006 11:57:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1927254.8	99.08	%	0.548				0.55%
ScR 361.383	211900.5	102.7	%	0.33				0.32%
Ag 328.068†	81.9	0.00022	mg/L	0.000121	0.00022	mg/L	0.000121	54.11%
Al 308.215†	18.1	0.01280	mg/L	0.014654	0.01280	mg/L	0.014654	114.46%
As 188.979†	2.1	0.00175	mg/L	0.001460	0.00175	mg/L	0.001460	83.32%
B 249.677†	14.7	0.00487	mg/L	0.001988	0.00487	mg/L	0.001988	40.83%
Ba 233.527†	1.6	0.00045	mg/L	0.000997	0.00045	mg/L	0.000997	220.81%
Be 313.042†	53.5	0.00009	mg/L	0.000021	0.00009	mg/L	0.000021	24.78%
Ca 317.933†	-7.2	-0.00031	mg/L	0.001684	-0.00031	mg/L	0.001684	551.74%
Cd 228.802†	-1.4	-0.00004	mg/L	0.000041	-0.00004	mg/L	0.000041	103.97%
Co 228.616†	-10.1	-0.00023	mg/L	0.000184	-0.00023	mg/L	0.000184	80.22%
Cr 267.716†	0.4	0.00004	mg/L	0.000156	0.00004	mg/L	0.000156	349.53%
Cu 324.752†	13.2	0.00004	mg/L	0.000186	0.00004	mg/L	0.000186	465.09%
Fe 273.955†	0.6	0.00055	mg/L	0.003011	0.00055	mg/L	0.003011	543.65%
K 766.490†	38.9	0.02312	mg/L	0.013236	0.02312	mg/L	0.013236	57.24%
Mg 279.077†	6.3	0.00387	mg/L	0.015935	0.00387	mg/L	0.015935	411.56%
Mn 257.610†	-6.3	-0.00022	mg/L	0.000061	-0.00022	mg/L	0.000061	27.72%
Mo 202.031†	9.3	0.00075	mg/L	0.000301	0.00075	mg/L	0.000301	39.88%
Na 589.592†	-20.1	-0.00304	mg/L	0.005277	-0.00304	mg/L	0.005277	173.59%
Na 330.237†	24.3	0.8041	mg/L	0.28823	0.8041	mg/L	0.28823	35.84%
Ni 231.604†	2.8	0.00135	mg/L	0.000435	0.00135	mg/L	0.000435	32.27%
Pb 220.353†	-2.7	-0.00023	mg/L	0.000229	-0.00023	mg/L	0.000229	100.98%
Sb 206.836†	-0.6	-0.00042	mg/L	0.001172	-0.00042	mg/L	0.001172	276.04%
Se 196.026†	5.0	0.00276	mg/L	0.003524	0.00276	mg/L	0.003524	127.88%
Si 288.158†	3.5	0.00206	mg/L	0.005245	0.00206	mg/L	0.005245	254.18%
Sn 189.927†	5.0	0.00088	mg/L	0.000358	0.00088	mg/L	0.000358	40.67%
Sr 421.552†	-34.7	-0.00005	mg/L	0.000010	-0.00005	mg/L	0.000010	21.80%
Ti 334.903†	-7.3	-0.00026	mg/L	0.000416	-0.00026	mg/L	0.000416	157.38%
Tl 190.801†	3.0	0.00226	mg/L	0.002083	0.00226	mg/L	0.002083	92.11%
V 292.402†	28.8	0.00009	mg/L	0.000111	0.00009	mg/L	0.000111	130.33%
Zn 206.200†	2.7	0.00239	mg/L	0.000916	0.00239	mg/L	0.000916	38.29%

OPTIMA ICP SAMPLE RUN LOG

9.12.6 JK

IEC Date: 6.19.06 Analysis Date: 9.12.6 Analyst: JK

LR Date: 6.19.06 Page: 1 of 5

All corrections made by analyst unless otherwise noted. 9.12.6 JK

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
~~E~~		zzzzzz			Tubing disconnected
		STD0			2302-1)
		2			-6
		3			-7
		4			-8
		~~5~~			-9
~~Z~~		~~ICV~~ zzzzzz			2294-3
b		zzzzzz			B, Na low
		~~STD0~~			
		ICV			2291-3
		ICB			
		CCI			
		~~ICSA~~			
		ICSAB			
		CCV1			
		CCB1			
		JU66F	TWC	2	
	✓	G			rerun 5x
		R			
	✓	S			rerun 5x
		K			
	✓	W			rerun 5x
		JV40 C		10	
		D			

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 9.12.6 Analyst: VB

LR Date: — Page: 2 of 5

All corrections made by analyst unless otherwise noted. 9.12.6 VB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		JU66 G	TWC	5	
		↓ S	↓	↓	
		CCV2			
		CCB2			B, Na C.O.
		JU66 W	TWC	5	
		CRI			B, Na C.O
		ICSA			Na C.O.
		ICSAB			
		CCV3			
		CCB3			
		JKU43 B	SWC	2	
		C			
		D			
		E			
		F			
		L			
		ADUP			✓
		A			
		ASPK			✓
		MB1SPK			✓
		CCV4			
		CCB4			
Z		~~JT86 MB1~~	SWC	2	NO samples
↓		↓			↓

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 9.12.6 Analyst: JVB

LR Date: — Page: 3 of 5

All corrections made by analyst unless otherwise noted. 9.12.6 JVB

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
Z		ZZZZZZ			no sample
		STD0			
		CCV5			
		CCB5			
	✓	JT80 MB1	SWC	2	confirms orig
		A			
		C			
		D			
		H			
		GDUP		✓	
		G			
		GSPK		✓	STL Al, Ca, Fe, Mg, Mn
		MB1SPK		✓	
		MB1SPD		✓	
		CCV6			
		CCB6			
		JU43 J	SWC	2	
		O			
		N			
		CCV7			
		CCB7			end pkg
		JV04 MB	TWC	✓	
		JV06 MB		✓	
		JV08 MB		✓	

9/13/6

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 9.12.6

	Analyst JVB 9.13.6	Peer BW 9.13	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	see log
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	see log
ICSA/ICSAB	✓	✓	"
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	JV08 CAF
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	JV09 CAF JV02AN
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	JV08, JV09, JV02

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

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9/12/2006 9:40:24 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.000 Slit adjustment: -2

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Analysis Begun

Start Time: 9/12/2006 9:42:36 AM **Plasma On Time: 9/12/2006 8:44:48 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

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Method Loaded
Method Name: ARIIEC5 **Method Last Saved: 6/20/2006 9:43:41 AM**
IEC File: IEC28.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 9/12/2006 9:42:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	176.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	3501.8	21.83	0.62%	100.0	%
ScR 361.383	24.7	3.87	15.70%	100.0	%
Ag 328.068†	-110.2	4.80	4.35%	[0.00]	mg/L
Al 308.215†	-28.9	5.71	19.74%	[0.00]	mg/L
As 188.979†	0.7	1.63	225.17%	[0.00]	mg/L
B 249.677†	-3.5	1.35	38.12%	[0.00]	mg/L
Ba 233.527†	2.1	0.14	6.76%	[0.00]	mg/L
Be 313.042†	217.7	33.95	15.59%	[0.00]	mg/L
Ca 317.933†	33.3	7.47	22.47%	[0.00]	mg/L
Cd 228.802†	5.5	1.24	22.58%	[0.00]	mg/L
Co 228.616†	1.0	2.40	246.61%	[0.00]	mg/L
Cr 267.716†	-4.3	1.84	43.24%	[0.00]	mg/L
Cu 324.752†	262.3	8.22	3.13%	[0.00]	mg/L
Fe 273.955†	-3.2	1.13	35.70%	[0.00]	mg/L
K 766.490†	909.8	178.31	19.60%	[0.00]	mg/L
Mg 279.077†	-10.2	1.64	16.05%	[0.00]	mg/L
Mn 257.610†	6.7	0.57	8.55%	[0.00]	mg/L
Mo 202.031†	-2.1	0.81	38.44%	[0.00]	mg/L
Na 589.592†	8412.8	1201.01	14.28%	[0.00]	mg/L
Na 330.237†	-12.1	3.00	24.92%	[0.00]	mg/L
Ni 231.604†	1.1	0.48	45.04%	[0.00]	mg/L
Pb 220.353†	6.8	1.77	26.15%	[0.00]	mg/L
Sb 206.836†	2.4	1.01	41.70%	[0.00]	mg/L
Se 196.026†	-2.9	1.88	64.51%	[0.00]	mg/L
Si 288.158†	-7.1	3.00	42.15%	[0.00]	mg/L
Sn 189.927†	-0.6	0.40	69.05%	[0.00]	mg/L
Sr 421.552†	76.7	20.11	26.21%	[0.00]	mg/L
Ti 334.903†	178.6	31.63	17.71%	[0.00]	mg/L
Tl 190.801†	-2.0	0.71	34.42%	[0.00]	mg/L
V 292.402†	2.3	3.55	157.28%	[0.00]	mg/L
Zn 206.200†	-0.2	1.19	568.87%	[0.00]	mg/L

Tubing disconnected
9/12/6am

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Analysis Begun

Start Time: 9/12/2006 10:00:41 AM
Plasma On Time: 9/12/2006 8:44:48 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 9/12/2006 10:00:41 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1823491.7	3431.64	0.19%	100.0	%
ScR 361.383	200384.9	155.76	0.08%	100.0	%
Ag 328.068†	293.2	115.23	39.29%	[0.00]	mg/L
Al 308.215†	-38.7	34.16	88.18%	[0.00]	mg/L
As 188.979†	33.9	1.91	5.63%	[0.00]	mg/L
B 249.677†	67.1	2.85	4.25%	[0.00]	mg/L
Ba 233.527†	36.6	2.63	7.17%	[0.00]	mg/L
Be 313.042†	937.8	16.69	1.78%	[0.00]	mg/L
Ca 317.933†	357.5	8.72	2.44%	[0.00]	mg/L
Cd 228.802†	179.6	3.16	1.76%	[0.00]	mg/L
Co 228.616†	40.2	4.01	9.97%	[0.00]	mg/L
Cr 267.716†	49.6	1.73	3.49%	[0.00]	mg/L
Cu 324.752†	3233.9	3.23	0.10%	[0.00]	mg/L
Fe 273.955†	-42.6	1.79	4.20%	[0.00]	mg/L
K 766.490†	3063.8	93.55	3.05%	[0.00]	mg/L
Mg 279.077†	-142.2	16.80	11.81%	[0.00]	mg/L
Mn 257.610†	33.1	7.73	23.36%	[0.00]	mg/L
Mo 202.031†	-80.7	0.44	0.55%	[0.00]	mg/L
Na 589.592†	11037.8	192.92	1.75%	[0.00]	mg/L
Na 330.237†	-167.9	14.08	8.39%	[0.00]	mg/L
Ni 231.604†	4.1	3.54	86.01%	[0.00]	mg/L
Pb 220.353†	161.6	10.33	6.39%	[0.00]	mg/L
Sb 206.836†	16.4	2.17	13.27%	[0.00]	mg/L
Se 196.026†	-90.3	4.17	4.62%	[0.00]	mg/L
Si 288.158†	-39.9	6.95	17.41%	[0.00]	mg/L
Sn 189.927†	17.1	3.75	21.98%	[0.00]	mg/L
Sr 421.552†	645.9	52.11	8.07%	[0.00]	mg/L
Ti 334.903†	-217.3	33.10	15.23%	[0.00]	mg/L
Tl 190.801†	-13.5	2.44	18.10%	[0.00]	mg/L
V 292.402†	-361.8	54.70	15.12%	[0.00]	mg/L
Zn 206.200†	-6.6	2.78	42.16%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/12/2006 10:07:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1811989.6	9073.50	0.50%	99.37	%
ScR 361.383	200468.3	1300.52	0.65%	100.0	%
Ba 233.527†	36404.2	127.06	0.35%	[10]	mg/L
Cd 228.802†	383212.9	948.87	0.25%	[10]	mg/L
Co 228.616†	453422.5	1902.96	0.42%	[10]	mg/L
Cr 267.716†	85042.2	81.37	0.10%	[10]	mg/L
Cu 324.752†	3224905.1	7758.60	0.24%	[10]	mg/L
Mn 257.610†	287927.3	642.59	0.22%	[10]	mg/L
V 292.402†	3438125.1	11143.49	0.32%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/12/2006 10:11:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1757615.9	6092.90	0.35%	96.39	%
ScR 361.383	197986.5	538.43	0.27%	98.80	%
Ag 328.068†	367030.8	157.30	0.04%	[1.0]	mg/L
As 188.979†	12348.8	134.43	1.09%	[10]	mg/L
B 249.677†	29984.0	266.09	0.89%	[10]	mg/L
Be 313.042†	3183528.3	6288.71	0.20%	[5.0]	mg/L
Na 589.592†	333666.9	669.03	0.20%	[50]	mg/L
Ni 231.604†	20972.7	151.90	0.72%	[10]	mg/L
Pb 220.353†	117812.0	299.89	0.25%	[10]	mg/L
Se 196.026†	18676.6	192.43	1.03%	[10]	mg/L
Sr 421.552†	3778889.3	7258.23	0.19%	[5]	mg/L
Tl 190.801†	13583.1	122.68	0.90%	[10]	mg/L
Zn 206.200†	11044.7	105.48	0.95%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 9/12/2006 10:16:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1839431.5	3687.15	0.20%	100.9	%
ScR 361.383	202709.1	794.07	0.39%	101.2	%
Mo 202.031†	122762.1	572.58	0.47%	[10]	mg/L
Sb 206.836†	13231.0	104.67	0.79%	[10]	mg/L
Si 288.158†	17389.7	48.39	0.28%	[10]	mg/L
Sn 189.927†	56897.1	195.17	0.34%	[10]	mg/L
Ti 334.903†	286654.9	2834.34	0.99%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/12/2006 10:20:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1665576.1	8318.05	0.50%	91.34	%
ScR 361.383	191427.1	794.95	0.42%	95.53	%
Al 308.215†	43772.8	179.25	0.41%	[30]	mg/L
Ca 317.933†	721681.8	4202.56	0.58%	[30]	mg/L
Fe 273.955†	105024.9	523.83	0.50%	[100]	mg/L
K 766.490†	165334.5	928.72	0.56%	[100]	mg/L
Mg 279.077†	52279.4	230.56	0.44%	[30]	mg/L
Na 330.237†	3035.7	20.16	0.66%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	367000	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1459	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1235	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2998	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	3640	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	636700	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	24060	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	38320	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	45340	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	8504	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	322500	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1050	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1653	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1743	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	28790	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	12280	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6673	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	30.36	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	2097	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	11780	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1323	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1868	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1739	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	5690	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	755800	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	28670	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1358	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	343800	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1104	0.00000	1.000000	

Analysis Begun

Start Time: 9/12/2006 10:39:35 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 9/12/2006 8:44:48 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ~~ICV~~ zzzzzz
Analyst:
Initial Sample Wt: 9/12/06 JMS
Dilution: 1X
Autosampler Location: 7
Date Collected: 9/12/2006 10:39:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1714487.7	94.02	%	0.245				0.26%
ScR 361.383	189667.3	94.65	%	1.298				1.37%
Ag 328.068†	372839.3	1.016	mg/L	0.0029	1.016	mg/L	0.0029	0.29%
Al 308.215†	3036.1	2.042	mg/L	0.0403	2.042	mg/L	0.0403	1.97%
As 188.979†	2531.7	2.045	mg/L	0.0073	2.045	mg/L	0.0073	0.36%
B 249.677†	2981.7	0.9979	mg/L	0.01468	0.9979	mg/L	0.01468	1.47%
Ba 233.527†	3647.0	1.001	mg/L	0.0150	1.001	mg/L	0.0150	1.50%
Be 313.042†	651448.4	1.022	mg/L	0.0135	1.022	mg/L	0.0135	1.32%
Ca 317.933†	50519.8	2.100	mg/L	0.0261	2.100	mg/L	0.0261	1.24%
Cd 228.802†	40370.9	1.051	mg/L	0.0031	1.051	mg/L	0.0031	0.30%
Co 228.616†	45799.0	1.008	mg/L	0.0039	1.008	mg/L	0.0039	0.38%
Cr 267.716†	8479.9	0.9961	mg/L	0.01560	0.9961	mg/L	0.01560	1.57%
Cu 324.752†	339771.3	1.053	mg/L	0.0029	1.053	mg/L	0.0029	0.27%
Fe 273.955†	2187.5	2.080	mg/L	0.0290	2.080	mg/L	0.0290	1.40%
K 766.490†	33593.1	20.32	mg/L	0.358	20.32	mg/L	0.358	1.76%
Mg 279.077†	3594.9	2.067	mg/L	0.0371	2.067	mg/L	0.0371	1.80%
Mn 257.610†	28206.3	0.9801	mg/L	0.01514	0.9801	mg/L	0.01514	1.54%
Mo 202.031†	12639.6	1.030	mg/L	0.0054	1.030	mg/L	0.0054	0.52%
Na 589.592†	345081.5	51.71	mg/L	0.704	51.71	mg/L	0.704	1.36%
Na 330.237†	1568.6	51.65	mg/L	0.838	51.65	mg/L	0.838	1.62%
Ni 231.604†	2172.8	1.037	mg/L	0.0148	1.037	mg/L	0.0148	1.43%
Pb 220.353†	23988.6	2.038	mg/L	0.0047	2.038	mg/L	0.0047	0.23%
Sb 206.836†	2839.8	2.147	mg/L	0.0127	2.147	mg/L	0.0127	0.59%
Se 196.026†	3806.1	2.037	mg/L	0.0082	2.037	mg/L	0.0082	0.40%
Si 288.158†	3402.1	1.958	mg/L	0.0318	1.958	mg/L	0.0318	1.62%
Sn 189.927†	5750.1	1.015	mg/L	0.0065	1.015	mg/L	0.0065	0.64%
Sr 421.552†	774819.7	1.025	mg/L	0.0132	1.025	mg/L	0.0132	1.29%
Ti 334.903†	30133.6	1.050	mg/L	0.0120	1.050	mg/L	0.0120	1.14%
Tl 190.801†	2742.2	2.015	mg/L	0.0085	2.015	mg/L	0.0085	0.42%
V 292.402†	354973.7	1.040	mg/L	0.0029	1.040	mg/L	0.0029	0.27%
Zn 206.200†	1159.8	1.049	mg/L	0.0157	1.049	mg/L	0.0157	1.50%

Sequence No.: 2
Sample ID: ~~CB~~ ZZZZZZ
Analyst:
Initial Sample Wt: 9/12/6 JVB
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 10:45:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1787423.2	98.02	%	0.213				0.22%
ScR 361.383	197977.5	98.80	%	0.816				0.83%
Ag 328.068†	-70.4	-0.00019	mg/L	0.000240	-0.00019	mg/L	0.000240	125.29%
Al 308.215†	8.7	0.00595	mg/L	0.005159	0.00595	mg/L	0.005159	86.72%
As 188.979†	8.5	0.00684	mg/L	0.000339	0.00684	mg/L	0.000339	4.96%
B 249.677†	-73.4	-0.02447	mg/L	0.001851	-0.02447	mg/L	0.001851	7.56%
Ba 233.527†	0.6	0.00017	mg/L	0.000673	0.00017	mg/L	0.000673	385.83%
Be 313.042†	14.0	0.00002	mg/L	0.000011	0.00002	mg/L	0.000011	47.73%
Ca 317.933†	27.7	0.00115	mg/L	0.000157	0.00115	mg/L	0.000157	13.60%
Cd 228.802†	4.9	0.00012	mg/L	0.000152	0.00012	mg/L	0.000152	127.47%
Co 228.616†	2.2	0.00005	mg/L	0.000183	0.00005	mg/L	0.000183	377.65%
Cr 267.716†	-0.3	-0.00003	mg/L	0.000676	-0.00003	mg/L	0.000676	>999.9%
Cu 324.752†	25.0	0.00008	mg/L	0.000111	0.00008	mg/L	0.000111	143.78%
Fe 273.955†	4.7	0.00445	mg/L	0.001752	0.00445	mg/L	0.001752	39.34%
K 766.490†	-166.0	-0.1004	mg/L	0.03848	-0.1004	mg/L	0.03848	38.33%
Mg 279.077†	-9.3	-0.00532	mg/L	0.001946	-0.00532	mg/L	0.001946	36.58%
Mn 257.610†	10.4	0.00036	mg/L	0.000029	0.00036	mg/L	0.000029	7.98%
Mo 202.031†	11.1	0.00090	mg/L	0.000136	0.00090	mg/L	0.000136	15.15%
Na 589.592†	-5102.5	-0.7646	mg/L	0.00400	-0.7646	mg/L	0.00400	0.52%
Na 330.237†	-11.8	-0.3903	mg/L	0.62554	-0.3903	mg/L	0.62554	160.29%
Ni 231.604†	0.7	0.00035	mg/L	0.002817	0.00035	mg/L	0.002817	801.83%
Pb 220.353†	10.4	0.00089	mg/L	0.000286	0.00089	mg/L	0.000286	32.20%
Sb 206.836†	0.8	0.00060	mg/L	0.002196	0.00060	mg/L	0.002196	364.07%
Se 196.026†	4.5	0.00239	mg/L	0.002420	0.00239	mg/L	0.002420	101.20%
Si 288.158†	7.6	0.00437	mg/L	0.003960	0.00437	mg/L	0.003960	90.57%
Sn 189.927†	8.9	0.00157	mg/L	0.000834	0.00157	mg/L	0.000834	53.13%
Sr 421.552†	80.8	0.00011	mg/L	0.000066	0.00011	mg/L	0.000066	61.53%
Ti 334.903†	8.4	0.00029	mg/L	0.000052	0.00029	mg/L	0.000052	17.55%
Tl 190.801†	3.0	0.00224	mg/L	0.000553	0.00224	mg/L	0.000553	24.74%
V 292.402†	-29.3	-0.00008	mg/L	0.000198	-0.00008	mg/L	0.000198	232.78%
Zn 206.200†	5.8	0.00528	mg/L	0.001115	0.00528	mg/L	0.001115	21.12%

Analysis Begun

Start Time: 9/12/2006 10:52:39 AM
Plasma On Time: 9/12/2006 8:44:48 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 9/12/2006 10:52:39 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1796358.1	7508.90	0.42%	98.51	%
ScR 361.383	196728.1	436.88	0.22%	98.18	%
Ag 328.068†	299.0	52.43	17.54%	[0.00]	mg/L
Al 308.215†	-32.2	5.64	17.54%	[0.00]	mg/L
As 188.979†	39.0	4.69	12.03%	[0.00]	mg/L
B 249.677†	-17.3	5.21	30.08%	[0.00]	mg/L
Ba 233.527†	35.9	6.06	16.88%	[0.00]	mg/L
Be 313.042†	978.9	25.57	2.61%	[0.00]	mg/L
Ca 317.933†	365.4	12.09	3.31%	[0.00]	mg/L
Cd 228.802†	181.1	4.66	2.57%	[0.00]	mg/L
Co 228.616†	47.5	7.38	15.54%	[0.00]	mg/L
Cr 267.716†	53.9	4.94	9.16%	[0.00]	mg/L
Cu 324.752†	3259.6	19.37	0.59%	[0.00]	mg/L
Fe 273.955†	-41.3	1.13	2.74%	[0.00]	mg/L
K 766.490†	2901.9	22.71	0.78%	[0.00]	mg/L
Mg 279.077†	-146.4	21.47	14.67%	[0.00]	mg/L
Mn 257.610†	46.7	5.26	11.26%	[0.00]	mg/L
Mo 202.031†	-77.8	3.13	4.02%	[0.00]	mg/L
Na 589.592†	5809.7	27.46	0.47%	[0.00]	mg/L
Na 330.237†	-178.6	8.48	4.75%	[0.00]	mg/L
Ni 231.604†	4.4	3.85	87.86%	[0.00]	mg/L
Pb 220.353†	161.5	4.93	3.05%	[0.00]	mg/L
Sb 206.836†	16.6	3.09	18.65%	[0.00]	mg/L
Se 196.026†	-74.8	2.30	3.08%	[0.00]	mg/L
Si 288.158†	-40.5	13.37	32.97%	[0.00]	mg/L
Sn 189.927†	25.3	6.01	23.77%	[0.00]	mg/L
Sr 421.552†	666.5	48.04	7.21%	[0.00]	mg/L
Ti 334.903†	-216.1	35.64	16.49%	[0.00]	mg/L
Tl 190.801†	-10.4	5.17	49.73%	[0.00]	mg/L
V 292.402†	-404.7	47.98	11.86%	[0.00]	mg/L
Zn 206.200†	-0.1	0.80	791.39%	[0.00]	mg/L

Analysis Begun

Start Time: 9/12/2006 10:57:34 AM
Plasma On Time: 9/12/2006 8:44:48 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 7
Sample ID: CV
Date Collected: 9/12/2006 10:57:34 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: 1CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1728432.0	94.79	%	0.271				0.29%
ScR 361.383	195634.9	97.63	%	0.158				0.16%
Ag 328.068†	368513.2	1.004	mg/L	0.0032	1.004	mg/L	0.0032	0.32%
Al 308.215†	2945.3	1.981	mg/L	0.0065	1.981	mg/L	0.0065	0.33%
As 188.979†	2497.3	2.017	mg/L	0.0132	2.017	mg/L	0.0132	0.65%
B 249.677†	2969.8	0.9939	mg/L	0.00549	0.9939	mg/L	0.00549	0.55%
Ba 233.527†	3541.2	0.9723	mg/L	0.00257	0.9723	mg/L	0.00257	0.26%
Be 313.042†	632613.8	0.9920	mg/L	0.00144	0.9920	mg/L	0.00144	0.15%
Ca 317.933†	49139.8	2.043	mg/L	0.0032	2.043	mg/L	0.0032	0.16%
Cd 228.802†	39904.2	1.038	mg/L	0.0022	1.038	mg/L	0.0022	0.21%
Co 228.616†	45269.0	0.9967	mg/L	0.00422	0.9967	mg/L	0.00422	0.42%
Cr 267.716†	8217.2	0.9652	mg/L	0.00263	0.9652	mg/L	0.00263	0.27%
Cu 324.752†	335944.8	1.041	mg/L	0.0035	1.041	mg/L	0.0035	0.34%
Fe 273.955†	2129.2	2.025	mg/L	0.0111	2.025	mg/L	0.0111	0.55%
K 766.490†	32689.1	19.77	mg/L	0.080	19.77	mg/L	0.080	0.40%
Mg 279.077†	3481.8	2.002	mg/L	0.0010	2.002	mg/L	0.0010	0.05%
Mn 257.610†	27352.6	0.9504	mg/L	0.00194	0.9504	mg/L	0.00194	0.20%
Mo 202.031†	12509.2	1.019	mg/L	0.0049	1.019	mg/L	0.0049	0.48%
Na 589.592†	337297.9	50.54	mg/L	0.080	50.54	mg/L	0.080	0.16%
Na 330.237†	1518.1	49.99	mg/L	0.309	49.99	mg/L	0.309	0.62%
Ni 231.604†	2112.1	1.008	mg/L	0.0013	1.008	mg/L	0.0013	0.13%
Pb 220.353†	23855.1	2.027	mg/L	0.0133	2.027	mg/L	0.0133	0.66%
Sb 206.836†	2815.1	2.129	mg/L	0.0086	2.129	mg/L	0.0086	0.40%
Se 196.026†	3773.8	2.020	mg/L	0.0100	2.020	mg/L	0.0100	0.50%
Si 288.158†	3276.2	1.886	mg/L	0.0023	1.886	mg/L	0.0023	0.12%
Sn 189.927†	5698.7	1.006	mg/L	0.0065	1.006	mg/L	0.0065	0.65%
Sr 421.552†	748410.0	0.9903	mg/L	0.00058	0.9903	mg/L	0.00058	0.06%
Ti 334.903†	29198.3	1.017	mg/L	0.0008	1.017	mg/L	0.0008	0.08%
Tl 190.801†	2717.3	1.997	mg/L	0.0106	1.997	mg/L	0.0106	0.53%
V 292.402†	351582.0	1.030	mg/L	0.0038	1.030	mg/L	0.0038	0.37%
Zn 206.200†	1123.7	1.017	mg/L	0.0057	1.017	mg/L	0.0057	0.56%

Sequence No.: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 11:03:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
ScA 357.253	1790436.2	98.19	%	0.286				0.29%
ScR 361.383	197410.5	98.52	%	0.550				0.56%
Ag 328.068†	-15.4	-0.00004	mg/L	0.000173	-0.00004	mg/L	0.000173	411.91%
Al 308.215†	-1.3	-0.00091	mg/L	0.004261	-0.00091	mg/L	0.004261	466.91%
As 188.979†	3.7	0.00300	mg/L	0.003652	0.00300	mg/L	0.003652	121.69%
B 249.677†	9.0	0.00299	mg/L	0.003062	0.00299	mg/L	0.003062	102.27%
Ba 233.527†	1.2	0.00034	mg/L	0.000682	0.00034	mg/L	0.000682	202.39%
Be 313.042†	-21.4	-0.00003	mg/L	0.000072	-0.00003	mg/L	0.000072	216.02%
Ca 317.933†	9.0	0.00037	mg/L	0.001098	0.00037	mg/L	0.001098	295.15%
Cd 228.802†	2.3	0.00006	mg/L	0.000095	0.00006	mg/L	0.000095	169.97%
Co 228.616†	-0.2	-0.00001	mg/L	0.000048	-0.00001	mg/L	0.000048	880.52%
Cr 267.716†	1.5	0.00017	mg/L	0.000418	0.00017	mg/L	0.000418	244.02%
Cu 324.752†	-7.3	-0.00002	mg/L	0.000276	-0.00002	mg/L	0.000276	>999.9%
Fe 273.955†	-0.4	-0.00034	mg/L	0.000469	-0.00034	mg/L	0.000469	139.09%
K 766.490†	19.9	0.01203	mg/L	0.031537	0.01203	mg/L	0.031537	262.21%
Mg 279.077†	-4.7	-0.00271	mg/L	0.004273	-0.00271	mg/L	0.004273	157.73%
Mn 257.610†	-3.2	-0.00011	mg/L	0.000026	-0.00011	mg/L	0.000026	23.43%
Mo 202.031†	5.4	0.00044	mg/L	0.000210	0.00044	mg/L	0.000210	47.92%
Na 589.592†	-188.2	-0.02820	mg/L	0.015954	-0.02820	mg/L	0.015954	56.58%
Na 330.237†	1.2	0.03964	mg/L	0.532218	0.03964	mg/L	0.532218	>999.9%
Ni 231.604†	1.9	0.00090	mg/L	0.001847	0.00090	mg/L	0.001847	205.92%
Pb 220.353†	1.7	0.00015	mg/L	0.000355	0.00015	mg/L	0.000355	238.75%
Sb 206.836†	-2.1	-0.00158	mg/L	0.001938	-0.00158	mg/L	0.001938	122.88%
Se 196.026†	-10.4	-0.00557	mg/L	0.004567	-0.00557	mg/L	0.004567	82.07%
Si 288.158†	9.3	0.00533	mg/L	0.002053	0.00533	mg/L	0.002053	38.52%
Sn 189.927†	-0.5	-0.00009	mg/L	0.000762	-0.00009	mg/L	0.000762	858.63%
Sr 421.552†	29.1	0.00004	mg/L	0.000026	0.00004	mg/L	0.000026	68.00%
Ti 334.903†	13.2	0.00046	mg/L	0.000705	0.00046	mg/L	0.000705	152.99%
Tl 190.801†	-0.9	-0.00065	mg/L	0.002528	-0.00065	mg/L	0.002528	386.14%
V 292.402†	-19.4	-0.00006	mg/L	0.000120	-0.00006	mg/L	0.000120	217.62%
Zn 206.200†	-3.2	-0.00288	mg/L	0.000887	-0.00288	mg/L	0.000887	30.78%

Sequence No.: 3 **Autosampler Location:** 8
Sample ID: CRI **Date Collected:** 9/12/2006 11:10:11 AM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 1X **Sample Prep Vol:**

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1803689.2	98.91	%	0.233				0.24%
ScR 361.383	199955.6	99.79	%	0.498				0.50%
Ag 328.068†	1224.3	0.00334	mg/L	0.000123	0.00334	mg/L	0.000123	3.67%
Al 308.215†	47.3	0.03228	mg/L	0.002170	0.03228	mg/L	0.002170	6.72%
As 188.979†	61.9	0.05012	mg/L	0.001315	0.05012	mg/L	0.001315	2.62%
B 249.677†	54.9	0.01832	mg/L	0.002414	0.01832	mg/L	0.002414	13.18%
Ba 233.527†	10.8	0.00296	mg/L	0.001518	0.00296	mg/L	0.001518	51.20%
Be 313.042†	646.4	0.00101	mg/L	0.000013	0.00101	mg/L	0.000013	1.30%
Ca 317.933†	1319.4	0.05485	mg/L	0.000774	0.05485	mg/L	0.000774	1.41%
Cd 228.802†	82.6	0.00209	mg/L	0.000111	0.00209	mg/L	0.000111	5.31%
Co 228.616†	139.3	0.00307	mg/L	0.000104	0.00307	mg/L	0.000104	3.41%
Cr 267.716†	35.6	0.00419	mg/L	0.000434	0.00419	mg/L	0.000434	10.38%
Cu 324.752†	630.1	0.00195	mg/L	0.000012	0.00195	mg/L	0.000012	0.61%
Fe 273.955†	55.8	0.05308	mg/L	0.002742	0.05308	mg/L	0.002742	5.17%
K 766.490†	904.6	0.5471	mg/L	0.01417	0.5471	mg/L	0.01417	2.59%
Mg 279.077†	92.4	0.05298	mg/L	0.003280	0.05298	mg/L	0.003280	6.19%
Mn 257.610†	23.9	0.00083	mg/L	0.000140	0.00083	mg/L	0.000140	16.81%
Mo 202.031†	61.5	0.00501	mg/L	0.000516	0.00501	mg/L	0.000516	10.30%
Na 589.592†	3421.6	0.5127	mg/L	0.01178	0.5127	mg/L	0.01178	2.30%
Na 330.237†	24.6	0.8095	mg/L	0.60197	0.8095	mg/L	0.60197	74.37%
Ni 231.604†	19.5	0.00932	mg/L	0.001510	0.00932	mg/L	0.001510	16.21%
Pb 220.353†	242.5	0.02060	mg/L	0.000288	0.02060	mg/L	0.000288	1.40%
Sb 206.836†	76.1	0.05760	mg/L	0.001298	0.05760	mg/L	0.001298	2.25%
Se 196.026†	90.9	0.04867	mg/L	0.003974	0.04867	mg/L	0.003974	8.16%
Si 288.158†	144.5	0.08312	mg/L	0.001020	0.08312	mg/L	0.001020	1.23%
Sn 189.927†	56.8	0.01010	mg/L	0.000458	0.01010	mg/L	0.000458	4.54%
Sr 421.552†	886.9	0.00117	mg/L	0.000040	0.00117	mg/L	0.000040	3.38%
Ti 334.903†	114.8	0.00400	mg/L	0.001069	0.00400	mg/L	0.001069	26.74%
Tl 190.801†	69.7	0.05128	mg/L	0.003605	0.05128	mg/L	0.003605	7.03%
V 292.402†	1076.9	0.00316	mg/L	0.000081	0.00316	mg/L	0.000081	2.56%
Zn 206.200†	4.2	0.00379	mg/L	0.000107	0.00379	mg/L	0.000107	2.81%

Sequence No.: 4
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 9
Date Collected: 9/12/2006 11:16:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1636124.3	89.72	%	0.802				0.89%
ScR 361.383	192298.1	95.96	%	0.304				0.32%
Ag 328.068†	-3572.0	-0.00142	mg/L	0.000057	-0.00142	mg/L	0.000057	4.02%
Al 308.215†	291817.6	200.0	mg/L	0.23	200.0	mg/L	0.23	0.12%
As 188.979†	31.1	0.00164	mg/L	0.004555	0.00164	mg/L	0.004555	276.93%
B 249.677†	-5.6	-0.00188	mg/L	0.001596	-0.00188	mg/L	0.001596	84.79%
Ba 233.527†	50.4	-0.00055	mg/L	0.000750	-0.00055	mg/L	0.000750	135.25%
Be 313.042†	10.2	0.00001	mg/L	0.000051	0.00001	mg/L	0.000051	359.29%
Ca 317.933†	2394190.7	99.53	mg/L	0.075	99.53	mg/L	0.075	0.08%
Cd 228.802†	68.8	-0.00026	mg/L	0.000246	-0.00026	mg/L	0.000246	95.61%
Co 228.616†	-59.8	-0.00261	mg/L	0.000053	-0.00261	mg/L	0.000053	2.03%
Cr 267.716†	-50.1	-0.00455	mg/L	0.000395	-0.00455	mg/L	0.000395	8.68%
Cu 324.752†	-5875.8	-0.00015	mg/L	0.000071	-0.00015	mg/L	0.000071	47.60%
Fe 273.955†	210057.4	200.0	mg/L	0.77	200.0	mg/L	0.77	0.38%
K 766.490†	260.3	0.1575	mg/L	0.00958	0.1575	mg/L	0.00958	6.08%
Mg 279.077†	175793.2	100.7	mg/L	0.25	100.7	mg/L	0.25	0.25%
Mn 257.610†	85.6	-0.00075	mg/L	0.000477	-0.00075	mg/L	0.000477	63.67%
Mo 202.031†	32.6	0.00469	mg/L	0.000675	0.00469	mg/L	0.000675	14.39%
Na 589.592†	1889.3	0.2831	mg/L	0.01058	0.2831	mg/L	0.01058	3.74%
Na 330.237†	25.1	-0.06208	mg/L	0.476074	-0.06208	mg/L	0.476074	766.87%
Ni 231.604†	-9.3	-0.00444	mg/L	0.002703	-0.00444	mg/L	0.002703	60.91%
Pb 220.353†	-443.1	0.00090	mg/L	0.000894	0.00090	mg/L	0.000894	99.65%
Sb 206.836†	24.6	0.01845	mg/L	0.000464	0.01845	mg/L	0.000464	2.51%
Se 196.026†	-133.7	-0.07158	mg/L	0.005122	-0.07158	mg/L	0.005122	7.16%
Si 288.158†	31.1	0.01789	mg/L	0.006622	0.01789	mg/L	0.006622	37.02%
Sn 189.927†	-114.4	-0.00514	mg/L	0.000987	-0.00514	mg/L	0.000987	19.23%
Sr 421.552†	894.9	0.00118	mg/L	0.000031	0.00118	mg/L	0.000031	2.62%
Ti 334.903†	133.7	0.00466	mg/L	0.000365	0.00466	mg/L	0.000365	7.83%
Tl 190.801†	-36.1	-0.02656	mg/L	0.006521	-0.02656	mg/L	0.006521	24.55%
V 292.402†	409.3	0.00115	mg/L	0.000049	0.00115	mg/L	0.000049	4.29%
Zn 206.200†	-5.7	-0.00920	mg/L	0.000841	-0.00920	mg/L	0.000841	9.14%

Sequence No.: 5
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 10
Date Collected: 9/12/2006 11:23:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1653096.5	90.66	%	0.144				0.16%
ScR 361.383	192642.8	96.14	%	0.579				0.60%
Ag 328.068†	391353.7	1.075	mg/L	0.0034	1.075	mg/L	0.0034	0.32%
Al 308.215†	292198.7	200.2	mg/L	0.16	200.2	mg/L	0.16	0.08%
As 188.979†	1323.0	1.047	mg/L	0.0077	1.047	mg/L	0.0077	0.73%
B 249.677†	-26.9	-0.00718	mg/L	0.000412	-0.00718	mg/L	0.000412	5.74%
Ba 233.527†	3696.1	1.001	mg/L	0.0074	1.001	mg/L	0.0074	0.74%
Be 313.042†	673216.7	1.056	mg/L	0.0021	1.056	mg/L	0.0021	0.20%
Ca 317.933†	2390711.8	99.38	mg/L	0.196	99.38	mg/L	0.196	0.20%
Cd 228.802†	40290.2	1.048	mg/L	0.0025	1.048	mg/L	0.0025	0.24%
Co 228.616†	43950.3	0.9678	mg/L	0.00218	0.9678	mg/L	0.00218	0.23%
Cr 267.716†	8356.6	0.9833	mg/L	0.00856	0.9833	mg/L	0.00856	0.87%
Cu 324.752†	337734.9	1.065	mg/L	0.0037	1.065	mg/L	0.0037	0.34%
Fe 273.955†	209120.3	199.1	mg/L	1.12	199.1	mg/L	1.12	0.56%
K 766.490†	303.3	0.1835	mg/L	0.04195	0.1835	mg/L	0.04195	22.87%
Mg 279.077†	175267.4	100.4	mg/L	0.08	100.4	mg/L	0.08	0.08%
Mn 257.610†	27992.2	0.9687	mg/L	0.00848	0.9687	mg/L	0.00848	0.88%
Mo 202.031†	34.5	0.00487	mg/L	0.000053	0.00487	mg/L	0.000053	1.09%
Na 589.592†	1114.1	0.1670	mg/L	0.01277	0.1670	mg/L	0.01277	7.65%
Na 330.237†	35.4	0.03018	mg/L	0.101182	0.03018	mg/L	0.101182	335.32%
Ni 231.604†	2048.1	0.9772	mg/L	0.01077	0.9772	mg/L	0.01077	1.10%
Pb 220.353†	11075.9	0.9800	mg/L	0.00479	0.9800	mg/L	0.00479	0.49%
Sb 206.836†	1447.0	1.081	mg/L	0.0060	1.081	mg/L	0.0060	0.55%
Se 196.026†	1819.3	0.9730	mg/L	0.00581	0.9730	mg/L	0.00581	0.60%
Si 288.158†	38.0	0.02394	mg/L	0.001158	0.02394	mg/L	0.001158	4.84%
Sn 189.927†	-125.2	-0.00505	mg/L	0.002125	-0.00505	mg/L	0.002125	42.08%
Sr 421.552†	1143.9	0.00151	mg/L	0.000067	0.00151	mg/L	0.000067	4.46%
Ti 334.903†	162.1	0.00544	mg/L	0.000210	0.00544	mg/L	0.000210	3.85%
Tl 190.801†	1309.6	0.9580	mg/L	0.00185	0.9580	mg/L	0.00185	0.19%
V 292.402†	362640.3	1.062	mg/L	0.0035	1.062	mg/L	0.0035	0.33%
Zn 206.200†	1079.0	0.9724	mg/L	0.01365	0.9724	mg/L	0.01365	1.40%

Sequence No.: 6
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 11:29:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1737159.2	95.27	%	0.327				0.34%
ScR 361.383	199129.4	99.37	%	0.380				0.38%
Ag 328.068†	366633.1	0.9991	mg/L	0.00044	0.9991	mg/L	0.00044	0.04%
Al 308.215†	2924.2	1.966	mg/L	0.0129	1.966	mg/L	0.0129	0.66%
As 188.979†	2486.0	2.008	mg/L	0.0073	2.008	mg/L	0.0073	0.36%
B 249.677†	2927.0	0.9796	mg/L	0.01159	0.9796	mg/L	0.01159	1.18%
Ba 233.527†	3524.8	0.9678	mg/L	0.00626	0.9678	mg/L	0.00626	0.65%
Be 313.042†	633631.8	0.9936	mg/L	0.00241	0.9936	mg/L	0.00241	0.24%
Ca 317.933†	49154.2	2.043	mg/L	0.0045	2.043	mg/L	0.0045	0.22%
Cd 228.802†	39787.3	1.035	mg/L	0.0023	1.035	mg/L	0.0023	0.22%
Co 228.616†	45174.0	0.9946	mg/L	0.00051	0.9946	mg/L	0.00051	0.05%
Cr 267.716†	8192.9	0.9624	mg/L	0.00738	0.9624	mg/L	0.00738	0.77%
Cu 324.752†	334413.2	1.036	mg/L	0.0005	1.036	mg/L	0.0005	0.05%
Fe 273.955†	2112.9	2.009	mg/L	0.0151	2.009	mg/L	0.0151	0.75%
K 766.490†	32139.1	19.44	mg/L	0.090	19.44	mg/L	0.090	0.46%
Mg 279.077†	3479.0	2.000	mg/L	0.0174	2.000	mg/L	0.0174	0.87%
Mn 257.610†	27206.5	0.9453	mg/L	0.00763	0.9453	mg/L	0.00763	0.81%
Mo 202.031†	12469.8	1.016	mg/L	0.0027	1.016	mg/L	0.0027	0.27%
Na 589.592†	333179.0	49.93	mg/L	0.135	49.93	mg/L	0.135	0.27%
Na 330.237†	1512.9	49.82	mg/L	0.447	49.82	mg/L	0.447	0.90%
Ni 231.604†	2109.4	1.007	mg/L	0.0055	1.007	mg/L	0.0055	0.55%
Pb 220.353†	23721.6	2.016	mg/L	0.0026	2.016	mg/L	0.0026	0.13%
Sb 206.836†	2806.9	2.122	mg/L	0.0025	2.122	mg/L	0.0025	0.12%
Se 196.026†	3752.1	2.008	mg/L	0.0075	2.008	mg/L	0.0075	0.38%
Si 288.158†	3255.8	1.874	mg/L	0.0168	1.874	mg/L	0.0168	0.89%
Sn 189.927†	5663.9	0.9996	mg/L	0.00205	0.9996	mg/L	0.00205	0.21%
Sr 421.552†	745010.2	0.9858	mg/L	0.00108	0.9858	mg/L	0.00108	0.11%
Ti 334.903†	29073.9	1.013	mg/L	0.0020	1.013	mg/L	0.0020	0.20%
Tl 190.801†	2701.7	1.986	mg/L	0.0054	1.986	mg/L	0.0054	0.27%
V 292.402†	349945.7	1.025	mg/L	0.0014	1.025	mg/L	0.0014	0.14%
Zn 206.200†	1122.0	1.015	mg/L	0.0086	1.015	mg/L	0.0086	0.84%

Sequence No.: 7
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 11:35:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1800076.0	98.72	%	0.161				0.16%
ScR 361.383	199242.7	99.43	%	0.606				0.61%
Ag 328.068†	-49.6	-0.00014	mg/L	0.000235	-0.00014	mg/L	0.000235	173.69%
Al 308.215†	-10.5	-0.00718	mg/L	0.005148	-0.00718	mg/L	0.005148	71.71%
As 188.979†	-5.5	-0.00443	mg/L	0.002551	-0.00443	mg/L	0.002551	57.62%
B 249.677†	-7.1	-0.00237	mg/L	0.000304	-0.00237	mg/L	0.000304	12.84%
Ba 233.527†	-1.1	-0.00029	mg/L	0.000859	-0.00029	mg/L	0.000859	296.49%
Be 313.042†	-10.7	-0.00002	mg/L	0.000055	-0.00002	mg/L	0.000055	323.30%
Ca 317.933†	0.4	0.00002	mg/L	0.000474	0.00002	mg/L	0.000474	>999.9%
Cd 228.802†	6.5	0.00018	mg/L	0.000119	0.00018	mg/L	0.000119	68.14%
Co 228.616†	-0.3	-0.00001	mg/L	0.000189	-0.00001	mg/L	0.000189	>999.9%
Cr 267.716†	-1.6	-0.00019	mg/L	0.000699	-0.00019	mg/L	0.000699	374.91%
Cu 324.752†	-79.6	-0.00025	mg/L	0.000134	-0.00025	mg/L	0.000134	54.10%
Fe 273.955†	-0.4	-0.00034	mg/L	0.001874	-0.00034	mg/L	0.001874	554.51%
K 766.490†	-5.1	-0.00307	mg/L	0.011931	-0.00307	mg/L	0.011931	388.41%
Mg 279.077†	-5.7	-0.00327	mg/L	0.007701	-0.00327	mg/L	0.007701	235.13%
Mn 257.610†	-8.6	-0.00030	mg/L	0.000119	-0.00030	mg/L	0.000119	39.77%
Mo 202.031†	6.4	0.00052	mg/L	0.000128	0.00052	mg/L	0.000128	24.70%
Na 589.592†	-1693.4	-0.2538	mg/L	0.00061	-0.2538	mg/L	0.00061	0.24%
Na 330.237†	13.7	0.4505	mg/L	0.60304	0.4505	mg/L	0.60304	133.87%
Ni 231.604†	5.3	0.00253	mg/L	0.002503	0.00253	mg/L	0.002503	99.07%
Pb 220.353†	13.7	0.00116	mg/L	0.000487	0.00116	mg/L	0.000487	41.87%
Sb 206.836†	-4.7	-0.00356	mg/L	0.001477	-0.00356	mg/L	0.001477	41.54%
Se 196.026†	-2.7	-0.00143	mg/L	0.005429	-0.00143	mg/L	0.005429	378.81%
Si 288.158†	8.4	0.00482	mg/L	0.001677	0.00482	mg/L	0.001677	34.80%
Sn 189.927†	1.3	0.00022	mg/L	0.001000	0.00022	mg/L	0.001000	455.58%
Sr 421.552†	19.8	0.00003	mg/L	0.000060	0.00003	mg/L	0.000060	228.42%
Ti 334.903†	12.6	0.00044	mg/L	0.001126	0.00044	mg/L	0.001126	256.46%
Tl 190.801†	1.1	0.00084	mg/L	0.001948	0.00084	mg/L	0.001948	230.87%
V 292.402†	41.2	0.00012	mg/L	0.000152	0.00012	mg/L	0.000152	128.17%
Zn 206.200†	-2.0	-0.00179	mg/L	0.002900	-0.00179	mg/L	0.002900	161.65%

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Analysis Begun

Start Time: 9/12/2006 11:41:22 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 9/12/2006 8:44:48 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0912.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1
Sample ID: JU66 F TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X
Autosampler Location: 21
Date Collected: 9/12/2006 11:41:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 F TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 F TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1313881.0	72.05	%	0.367				0.51%
ScR 361.383	167166.1	83.42	%	0.196				0.24%
Ag 328.068†	-374.4	-0.00104	mg/L	0.000252	-0.00208	mg/L	0.000503	24.23%
Al 308.215†	-26.6	-0.01857	mg/L	0.008128	-0.03714	mg/L	0.016257	43.77%
As 188.979†	20.6	0.00673	mg/L	0.003307	0.01347	mg/L	0.006614	49.12%
B 249.677†	4875.0	1.626	mg/L	0.0155	3.252	mg/L	0.0309	0.95%
Ba 233.527†	312.7	0.08590	mg/L	0.000799	0.1718	mg/L	0.00160	0.93%
Be 313.042†	121.5	0.00019	mg/L	0.000043	0.00038	mg/L	0.000087	22.96%
Ca 317.933†	4266219.4	177.3	mg/L	0.38	354.7	mg/L	0.75	0.21%
Cd 228.802†	36.7	0.00093	mg/L	0.000134	0.00186	mg/L	0.000269	14.45%
Co 228.616†	-5.8	-0.00016	mg/L	0.000082	-0.00031	mg/L	0.000165	52.53%
Cr 267.716†	316.1	-0.03248	mg/L	0.000910	-0.06496	mg/L	0.001821	2.80%
Cu 324.752†	2743.9	0.00461	mg/L	0.000333	0.00921	mg/L	0.000665	7.22%
Fe 273.955†	81.0	0.07710	mg/L	0.004751	0.1542	mg/L	0.00950	6.16%
K 766.490†	233384.5	141.2	mg/L	1.72	282.3	mg/L	3.44	1.22%
Mg 279.077†	792880.1	455.0	mg/L	0.57	910.0	mg/L	1.14	0.13%
Mn 257.610†	3601.7	0.11164	mg/L	0.00016	0.2327	mg/L	0.00031	0.13%
Mo 202.031†	176.8	0.00362	mg/L	0.000846	0.00725	mg/L	0.001692	23.36%
Na 589.592†	Saturated2							
Na 330.237†	118743.5	3910	mg/L	1.5	7820	mg/L	3.0	0.04%
Ni 231.604†	-0.2	-0.00007	mg/L	0.003857	-0.00014	mg/L	0.007714	>999.9%
Pb 220.353†	84.3	0.00721	mg/L	0.000518	0.01443	mg/L	0.001037	7.19%
Sb 206.836†	8.9	0.00593	mg/L	0.002969	0.01186	mg/L	0.005938	50.08%
Se 196.026†	-106.9	-0.05738	mg/L	0.005563	-0.1148	mg/L	0.01113	9.69%
Si 288.158†	11652.2	6.701	mg/L	0.1013	13.40	mg/L	0.203	1.51%
Sn 189.927†	-112.6	-0.00062	mg/L	0.000915	-0.00123	mg/L	0.001830	148.62%
Sr 421.552†	2436869.5	3.224	mg/L	0.0040	6.449	mg/L	0.0081	0.12%
Ti 334.903†	203.4	0.00707	mg/L	0.001125	0.01415	mg/L	0.002251	15.91%
Tl 190.801†	-16.0	-0.01172	mg/L	0.004531	-0.02343	mg/L	0.009062	38.68%
V 292.402†	359.9	0.00134	mg/L	0.000148	0.00267	mg/L	0.000296	11.08%
Zn 206.200†	28.5	0.02807	mg/L	0.003235	0.05613	mg/L	0.006470	11.53%

Sequence No.: 2
Sample ID: JU66 G TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

rerun 5Y

Autosampler Location: 22
Date Collected: 9/12/2006 11:48:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 G TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JU66 G TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1356543.9	74.39	%	1.184				1.59%
ScR 361.383	173858.8	86.76	%	0.116				0.13%
Ag 328.068†	-221.3	-0.00060	mg/L	0.000183	-0.00121	mg/L	0.000366	30.37%
Al 308.215†	-2.1	-0.00178	mg/L	0.011484	-0.00356	mg/L	0.022968	645.68%
As 188.979†	24.9	0.01337	mg/L	0.002516	0.02673	mg/L	0.005032	18.83%
B 249.677†	3153.3	1.052	mg/L	0.0039	2.104	mg/L	0.0078	0.37%
Ba 233.527†	241.7	0.06638	mg/L	0.002439	0.1328	mg/L	0.00488	3.67%
Be 313.042†	87.5	0.00013	mg/L	0.000041	0.00027	mg/L	0.000081	30.23%
Ca 317.933†	2902794.2	120.7	mg/L	0.59	241.3	mg/L	1.17	0.49%
Cd 228.802†	25.0	0.00062	mg/L	0.000341	0.00124	mg/L	0.000682	54.85%
Co 228.616†	-16.5	-0.00038	mg/L	0.000157	-0.00077	mg/L	0.000314	40.95%
Cr 267.716†	220.6	-0.02317	mg/L	0.000179	-0.04634	mg/L	0.000357	0.77%
Cu 324.752†	2205.3	0.00408	mg/L	0.000357	0.00815	mg/L	0.000715	8.77%
Fe 273.955†	24.0	0.02286	mg/L	0.003737	0.04572	mg/L	0.007474	16.35%
K 766.490†	187159.6	113.2	mg/L	0.57	226.4	mg/L	1.15	0.51%
Mg 279.077†	559618.2	321.1	mg/L	0.52	642.3	mg/L	1.04	0.16%
Mn 257.610†	41.6	0.00468	mg/L	0.000325	-0.00937	mg/L	0.000649	6.93%
Mo 202.031†	190.7	0.00793	mg/L	0.000602	0.01585	mg/L	0.001204	7.60%
Na 589.592†	Saturated2							
Na 330.237†	80714.2	2658	mg/L	24.3	5316	mg/L	48.7	0.92%
Ni 231.604†	5.0	0.00237	mg/L	0.001026	0.00474	mg/L	0.002053	43.27%
Pb 220.353†	80.3	0.00686	mg/L	0.000868	0.01372	mg/L	0.001736	12.65%
Sb 206.836†	7.1	0.00472	mg/L	0.002711	0.00943	mg/L	0.005423	57.48%
Se 196.026†	-92.6	-0.04957	mg/L	0.004200	-0.09915	mg/L	0.008400	8.47%
Si 288.158†	4413.2	2.538	mg/L	0.0146	5.076	mg/L	0.0292	0.58%
Sn 189.927†	-106.2	-0.00594	mg/L	0.001496	-0.01188	mg/L	0.002992	25.18%
Sr 421.552†	1575839.0	2.085	mg/L	0.0098	4.170	mg/L	0.0196	0.47%
Ti 334.903†	157.0	0.00545	mg/L	0.001086	0.01091	mg/L	0.002173	19.92%
Tl 190.801†	-9.6	-0.00703	mg/L	0.002687	-0.01405	mg/L	0.005374	38.24%
V 292.402†	600.0	0.00194	mg/L	0.000082	0.00387	mg/L	0.000165	4.26%
Zn 206.200†	4.7	0.00582	mg/L	0.000568	0.01164	mg/L	0.001135	9.75%

Sequence No.: 3
Sample ID: JU66 R TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 23
Date Collected: 9/12/2006 11:55:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 R TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 R TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1315553.5	72.14	%	0.416				0.58%
ScR 361.383	169073.3	84.37	%	0.623				0.74%
Ag 328.068†	-374.5	-0.00105	mg/L	0.000100	-0.00211	mg/L	0.000200	9.50%
Al 308.215†	-22.9	-0.01598	mg/L	0.007159	-0.03197	mg/L	0.014318	44.79%
As 188.979†	29.5	0.01406	mg/L	0.006999	0.02811	mg/L	0.013999	49.80%
B 249.677†	4810.9	1.605	mg/L	0.0160	3.209	mg/L	0.0319	0.99%
Ba 233.527†	318.7	0.08756	mg/L	0.000929	0.1751	mg/L	0.00186	1.06%
Be 313.042†	125.0	0.00019	mg/L	0.000044	0.00039	mg/L	0.000087	22.46%
Ca 317.933†	4224442.7	175.6	mg/L	0.82	351.2	mg/L	1.64	0.47%
Cd 228.802†	24.8	0.00061	mg/L	0.000181	0.00122	mg/L	0.000361	29.59%
Co 228.616†	10.6	0.00021	mg/L	0.000503	0.00042	mg/L	0.001007	242.37%
Cr 267.716†	309.4	-0.03301	mg/L	0.000398	-0.06602	mg/L	0.000796	1.21%
Cu 324.752†	2569.1	0.00407	mg/L	0.000126	0.00814	mg/L	0.000252	3.10%
Fe 273.955†	-25.7	-0.02448	mg/L	0.004278	-0.04896	mg/L	0.008556	17.47%
K 766.490†	233090.6	141.0	mg/L	0.96	282.0	mg/L	1.91	0.68%
Mg 279.077†	789535.6	453.1	mg/L	1.59	906.1	mg/L	3.18	0.35%
Mn 257.610†	5420.6	0.1796	mg/L	0.00169	0.3592	mg/L	0.00337	0.94%
Mo 202.031†	173.3	0.00338	mg/L	0.000278	0.00677	mg/L	0.000556	8.21%
Na 589.592†	Saturated2							
Na 330.237†	117057.4	3854	mg/L	13.9	7709	mg/L	27.8	0.36%
Ni 231.604†	1.0	0.00047	mg/L	0.004412	0.00095	mg/L	0.008825	933.17%
Pb 220.353†	78.8	0.00674	mg/L	0.001096	0.01348	mg/L	0.002191	16.25%
Sb 206.836†	4.0	0.00216	mg/L	0.004607	0.00433	mg/L	0.009214	212.86%
Se 196.026†	-112.6	-0.06050	mg/L	0.004278	-0.1210	mg/L	0.00856	7.07%
Si 288.158†	11786.5	6.778	mg/L	0.0943	13.56	mg/L	0.189	1.39%
Sn 189.927†	-120.5	-0.00228	mg/L	0.001473	-0.00456	mg/L	0.002946	64.65%
Sr 421.552†	2395636.9	3.170	mg/L	0.0169	6.340	mg/L	0.0338	0.53%
Ti 334.903†	161.5	0.00561	mg/L	0.000110	0.01123	mg/L	0.000220	1.96%
Tl 190.801†	-14.2	-0.01041	mg/L	0.001846	-0.02083	mg/L	0.003691	17.72%
V 292.402†	405.2	0.00147	mg/L	0.000139	0.00294	mg/L	0.000277	9.43%
Zn 206.200†	17.8	0.01834	mg/L	0.000781	0.03669	mg/L	0.001561	4.26%

Sequence No.: 4
Sample ID: JU66 S TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 24
Date Collected: 9/12/2006 12:02:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 S TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.50 L/min

Mean Data: JU66 S TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1377039.5	75.52	%	0.049				0.06%
ScR 361.383	172067.4	85.87	%	0.598				0.70%
Ag 328.068†	-250.6	-0.00068	mg/L	0.000405	-0.00137	mg/L	0.000811	59.19%
Al 308.215†	-23.4	-0.01635	mg/L	0.005826	-0.03270	mg/L	0.011651	35.63%
As 188.979†	25.1	0.01363	mg/L	0.004791	0.02725	mg/L	0.009582	35.16%
B 249.677†	3118.7	1.040	mg/L	0.0111	2.081	mg/L	0.0222	1.06%
Ba 233.527†	233.8	0.06423	mg/L	0.002113	0.1285	mg/L	0.00423	3.29%
Be 313.042†	61.9	0.00009	mg/L	0.000021	0.00019	mg/L	0.000043	22.55%
Ca 317.933†	2856054.0	118.7	mg/L	0.28	237.4	mg/L	0.56	0.23%
Cd 228.802†	20.2	0.00050	mg/L	0.000048	0.00099	mg/L	0.000095	9.60%
Co 228.616†	-4.4	-0.00011	mg/L	0.000234	-0.00023	mg/L	0.000468	207.33%
Cr 267.716†	224.7	-0.02161	mg/L	0.001334	-0.04322	mg/L	0.002669	6.18%
Cu 324.752†	2076.0	0.00373	mg/L	0.000134	0.00747	mg/L	0.000268	3.58%
Fe 273.955†	-23.7	-0.02256	mg/L	0.002778	-0.04513	mg/L	0.005556	12.31%
K 766.490†	186555.3	112.8	mg/L	0.45	225.7	mg/L	0.90	0.40%
Mg 279.077†	547215.3	314.0	mg/L	0.75	628.0	mg/L	1.51	0.24%
Mn 257.610†	-5.5	-0.00619	mg/L	0.000038	-0.01237	mg/L	0.000075	0.61%
Mo 202.031†	182.9	0.00746	mg/L	0.000452	0.01492	mg/L	0.000905	6.06%
Na 589.592†	Saturated2							
Na 330.237†	80385.9	2647	mg/L	23.7	5294	mg/L	47.5	0.90%
Ni 231.604†	5.8	0.00275	mg/L	0.002733	0.00551	mg/L	0.005466	99.22%
Pb 220.353†	72.5	0.00620	mg/L	0.001185	0.01240	mg/L	0.002370	19.11%
Sb 206.836†	3.7	0.00215	mg/L	0.003064	0.00429	mg/L	0.006127	142.81%
Se 196.026†	-94.5	-0.05062	mg/L	0.005223	-0.1012	mg/L	0.01045	10.32%
Si 288.158†	4373.5	2.515	mg/L	0.0070	5.030	mg/L	0.0140	0.28%
Sn 189.927†	-113.4	-0.00736	mg/L	0.001279	-0.01473	mg/L	0.002559	17.38%
Sr 421.552†	1564369.3	2.070	mg/L	0.0044	4.140	mg/L	0.0088	0.21%
Ti 334.903†	117.7	0.00409	mg/L	0.001043	0.00817	mg/L	0.002087	25.53%
Tl 190.801†	-11.2	-0.00818	mg/L	0.005007	-0.01635	mg/L	0.010015	61.25%
V 292.402†	573.6	0.00186	mg/L	0.000126	0.00373	mg/L	0.000251	6.75%
Zn 206.200†	4.0	0.00518	mg/L	0.005159	0.01035	mg/L	0.010318	99.66%

Sequence No.: 5
Sample ID: JU66 K TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 9/12/2006 12:10:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 K TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 K TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1427535.6	78.29	%	0.153				0.20%
ScR 361.383	178637.5	89.15	%	0.226				0.25%
Ag 328.068†	-167.1	-0.00045	mg/L	0.000323	-0.00091	mg/L	0.000645	71.14%
Al 308.215†	41.8	0.02832	mg/L	0.004617	0.05665	mg/L	0.009233	16.30%
As 188.979†	18.3	0.00931	mg/L	0.002197	0.01862	mg/L	0.004393	23.59%
B 249.677†	2152.0	0.7178	mg/L	0.00774	1.436	mg/L	0.0155	1.08%
Ba 233.527†	419.9	0.1153	mg/L	0.00163	0.2307	mg/L	0.00326	1.41%
Be 313.042†	70.3	0.00011	mg/L	0.000034	0.00022	mg/L	0.000067	31.06%
Ca 317.933†	2355454.2	97.92	mg/L	0.446	195.8	mg/L	0.89	0.46%
Cd 228.802†	56.2	0.00144	mg/L	0.000033	0.00288	mg/L	0.000066	2.27%
Co 228.616†	-7.8	-0.00020	mg/L	0.000081	-0.00041	mg/L	0.000161	39.43%
Cr 267.716†	182.5	-0.01453	mg/L	0.000806	-0.02907	mg/L	0.001611	5.54%
Cu 324.752†	2061.9	0.00437	mg/L	0.000143	0.00875	mg/L	0.000286	3.27%
Fe 273.955†	82.1	0.07820	mg/L	0.003531	0.1564	mg/L	0.00706	4.52%
K 766.490†	132036.0	79.86	mg/L	0.597	159.7	mg/L	1.19	0.75%
Mg 279.077†	410206.4	235.4	mg/L	0.80	470.8	mg/L	1.60	0.34%
Mn 257.610†	73.9	0.00198	mg/L	0.000184	-0.00396	mg/L	0.000369	9.31%
Mo 202.031†	170.9	0.00834	mg/L	0.000087	0.01669	mg/L	0.000174	1.04%
Na 589.592†	Saturated2							
Na 330.237†	60240.4	1984	mg/L	11.4	3967	mg/L	22.7	0.57%
Ni 231.604†	9.0	0.00432	mg/L	0.001458	0.00863	mg/L	0.002915	33.77%
Pb 220.353†	76.7	0.00655	mg/L	0.000491	0.01310	mg/L	0.000982	7.50%
Sb 206.836†	3.8	0.00230	mg/L	0.001781	0.00459	mg/L	0.003561	77.52%
Se 196.026†	-88.3	-0.04725	mg/L	0.001846	-0.09451	mg/L	0.003693	3.91%
Si 288.158†	4850.4	2.789	mg/L	0.0268	5.579	mg/L	0.0536	0.96%
Sn 189.927†	-103.1	-0.00710	mg/L	0.002325	-0.01421	mg/L	0.004651	32.73%
Sr 421.552†	1172938.8	1.552	mg/L	0.0071	3.104	mg/L	0.0141	0.45%
Ti 334.903†	132.9	0.00462	mg/L	0.001199	0.00923	mg/L	0.002398	25.97%
Tl 190.801†	-12.5	-0.00914	mg/L	0.004443	-0.01828	mg/L	0.008887	48.61%
V 292.402†	507.1	0.00163	mg/L	0.000221	0.00327	mg/L	0.000443	13.54%
Zn 206.200†	-0.7	0.00060	mg/L	0.002654	0.00120	mg/L	0.005309	442.90%

Sequence No.: 6
Sample ID: JU66 W TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 9/12/2006 12:17:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 W TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 W TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1412978.1	77.49	%	0.430				0.55%
ScR 361.383	176060.9	87.86	%	0.209				0.24%
Ag 328.068†	-213.3	-0.00058	mg/L	0.000073	-0.00117	mg/L	0.000147	12.57%
Al 308.215†	-19.0	-0.01332	mg/L	0.006742	-0.02663	mg/L	0.013484	50.63%
As 188.979†	23.4	0.01328	mg/L	0.001528	0.02655	mg/L	0.003056	11.51%
B 249.677†	2259.3	0.7536	mg/L	0.00526	1.507	mg/L	0.0105	0.70%
Ba 233.527†	412.5	0.1133	mg/L	0.00052	0.2266	mg/L	0.00103	0.46%
Be 313.042†	90.5	0.00014	mg/L	0.000064	0.00028	mg/L	0.000128	45.53%
Ca 317.933†	2415996.3	100.4	mg/L	0.07	200.9	mg/L	0.14	0.07%
Cd 228.802†	62.4	0.00160	mg/L	0.000048	0.00319	mg/L	0.000096	3.00%
Co 228.616†	23.7	0.00050	mg/L	0.000128	0.00099	mg/L	0.000257	25.87%
Cr 267.716†	187.7	-0.01522	mg/L	0.000514	-0.03045	mg/L	0.001028	3.37%
Cu 324.752†	1974.0	0.00402	mg/L	0.000178	0.00804	mg/L	0.000355	4.42%
Fe 273.955†	-17.6	-0.01675	mg/L	0.002276	-0.03351	mg/L	0.004551	13.58%
K 766.490†	139039.2	84.10	mg/L	0.363	168.2	mg/L	0.73	0.43%
Mg 279.077†	424987.3	243.9	mg/L	0.06	487.7	mg/L	0.12	0.02%
Mn 257.610†	25.5	-0.00382	mg/L	0.000138	-0.00763	mg/L	0.000276	3.62%
Mo 202.031†	167.6	0.00787	mg/L	0.000185	0.01574	mg/L	0.000370	2.35%
Na 589.592†	Saturated2							
Na 330.237†	63185.6	2081	mg/L	21.2	4161	mg/L	42.4	1.02%
Ni 231.604†	1.7	0.00079	mg/L	0.000629	0.00158	mg/L	0.001259	79.77%
Pb 220.353†	47.7	0.00408	mg/L	0.001239	0.00817	mg/L	0.002478	30.35%
Sb 206.836†	4.4	0.00275	mg/L	0.001908	0.00550	mg/L	0.003815	69.34%
Se 196.026†	-90.1	-0.04826	mg/L	0.011998	-0.09652	mg/L	0.023995	24.86%
Si 288.158†	4962.3	2.854	mg/L	0.0184	5.707	mg/L	0.0369	0.65%
Sn 189.927†	-116.8	-0.00929	mg/L	0.001124	-0.01859	mg/L	0.002248	12.09%
Sr 421.552†	1227391.3	1.624	mg/L	0.0017	3.248	mg/L	0.0034	0.11%
Ti 334.903†	70.8	0.00245	mg/L	0.000542	0.00490	mg/L	0.001083	22.11%
Tl 190.801†	-11.5	-0.00844	mg/L	0.004004	-0.01688	mg/L	0.008009	47.46%
V 292.402†	439.1	0.00144	mg/L	0.000120	0.00288	mg/L	0.000241	8.34%
Zn 206.200†	-4.6	-0.00292	mg/L	0.001221	-0.00584	mg/L	0.002443	41.86%

Sequence No.: 7
Sample ID: JV40 C TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 27
Date Collected: 9/12/2006 12:24:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JV40 C TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JV40 C TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1454505.1	79.76	%	0.520				0.65%
ScR 361.383	175264.7	87.46	%	0.507				0.58%
Ag 328.068†	282.1	0.00076	mg/L	0.000154	0.00760	mg/L	0.001545	20.32%
Al 308.215†	10.5	0.00597	mg/L	0.019822	0.05971	mg/L	0.198221	331.98%
As 188.979†	23.0	0.01755	mg/L	0.010049	0.1755	mg/L	0.10049	57.27%
B 249.677†	156419.8	52.17	mg/L	0.175	521.7	mg/L	1.75	0.34%
Ba 233.527†	21.8	0.00598	mg/L	0.000077	0.05982	mg/L	0.000775	1.29%
Be 313.042†	58.9	0.00009	mg/L	0.000024	0.00093	mg/L	0.000238	25.70%
Ca 317.933†	452162.8	18.80	mg/L	0.007	188.0	mg/L	0.07	0.04%
Cd 228.802†	10.5	0.00025	mg/L	0.000149	0.00248	mg/L	0.001486	59.92%
Co 228.616†	4.2	0.00012	mg/L	0.000265	0.00116	mg/L	0.002650	229.42%
Cr 267.716†	6.9	0.00073	mg/L	0.001378	0.00728	mg/L	0.013777	189.14%
Cu 324.752†	2771.7	0.00855	mg/L	0.000259	0.08550	mg/L	0.002588	3.03%
Fe 273.955†	55.9	0.05318	mg/L	0.001793	0.5318	mg/L	0.01793	3.37%
K 766.490†	8908.2	5.388	mg/L	0.3531	53.88	mg/L	3.531	6.55%
Mg 279.077†	709.0	0.4070	mg/L	0.00553	4.070	mg/L	0.0553	1.36%
Mn 257.610†	736.2	0.02546	mg/L	0.000339	0.2546	mg/L	0.00339	1.33%
Mo 202.031†	772.5	0.06292	mg/L	0.000674	0.6292	mg/L	0.00674	1.07%
Na 589.592†	Saturated2							
Na 330.237†	65514.4	2158	mg/L	3.2	21580	mg/L	31.9	0.15%
Ni 231.604†	4.9	0.00236	mg/L	0.003191	0.02358	mg/L	0.031905	135.29%
Pb 220.353†	169.0	0.01436	mg/L	0.000458	0.1436	mg/L	0.00458	3.19%
Sb 206.836†	4.3	0.00320	mg/L	0.002387	0.03204	mg/L	0.023870	74.50%
Se 196.026†	-38.9	-0.02085	mg/L	0.003480	-0.2085	mg/L	0.03480	16.69%
Si 288.158†	110.9	0.06379	mg/L	0.006612	0.6379	mg/L	0.06612	10.36%
Sn 189.927†	-3.8	0.00266	mg/L	0.000049	0.02658	mg/L	0.000492	1.85%
Sr 421.552†	18560.1	0.02456	mg/L	0.000125	0.2456	mg/L	0.00125	0.51%
Ti 334.903†	-15.9	-0.00062	mg/L	0.000448	-0.00619	mg/L	0.004483	72.39%
Tl 190.801†	0.0	0.00026	mg/L	0.000922	0.00259	mg/L	0.009216	355.33%
V 292.402†	-53.7	-0.00010	mg/L	0.000174	-0.00100	mg/L	0.001737	173.70%
Zn 206.200†	-0.0	0.00020	mg/L	0.003388	0.00202	mg/L	0.033880	>999.9%

Sequence No.: 8
Sample ID: JV40 D TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 10X

Autosampler Location: 28
Date Collected: 9/12/2006 12:31:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JV40 D TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JV40 D TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1399740.8	76.76	%	0.084				0.11%
ScR 361.383	170570.5	85.12	%	0.264				0.31%
Ag 328.068†	62.1	0.00019	mg/L	0.000191	0.00194	mg/L	0.001912	98.50%
Al 308.215†	27.6	0.01809	mg/L	0.004798	0.1809	mg/L	0.04798	26.53%
As 188.979†	33.0	0.02563	mg/L	0.003817	0.2563	mg/L	0.03817	14.89%
B 249.677†	54479.7	18.17	mg/L	0.058	181.7	mg/L	0.58	0.32%
Ba 233.527†	33.7	0.00917	mg/L	0.001252	0.09173	mg/L	0.012517	13.64%
Be 313.042†	87.7	0.00014	mg/L	0.000032	0.00138	mg/L	0.000322	23.31%
Ca 317.933†	457533.1	19.02	mg/L	0.088	190.2	mg/L	0.88	0.47%
Cd 228.802†	15.4	0.00035	mg/L	0.000193	0.00354	mg/L	0.001930	54.49%
Co 228.616†	27.3	0.00059	mg/L	0.000167	0.00586	mg/L	0.001671	28.50%
Cr 267.716†	23.4	0.00273	mg/L	0.000783	0.02734	mg/L	0.007832	28.65%
Cu 324.752†	4209.8	0.01314	mg/L	0.000113	0.1314	mg/L	0.00113	0.86%
Fe 273.955†	1272.7	1.212	mg/L	0.0027	12.12	mg/L	0.027	0.23%
K 766.490†	11280.6	6.823	mg/L	0.4183	68.23	mg/L	4.183	6.13%
Mg 279.077†	491.1	0.2811	mg/L	0.00778	2.811	mg/L	0.0778	2.77%
Mn 257.610†	3698.0	0.1284	mg/L	0.00036	1.284	mg/L	0.0036	0.28%
Mo 202.031†	507.0	0.04129	mg/L	0.000192	0.4129	mg/L	0.00192	0.46%
Na 589.592†	Saturated2							
Na 330.237†	88911.6	2929	mg/L	11.6	29290	mg/L	116.4	0.40%
Ni 231.604†	13.2	0.00632	mg/L	0.002852	0.06321	mg/L	0.028517	45.12%
Pb 220.353†	1416.1	0.1202	mg/L	0.00043	1.202	mg/L	0.0043	0.35%
Sb 206.836†	7.3	0.00544	mg/L	0.004760	0.05443	mg/L	0.047595	87.44%
Se 196.026†	-27.8	-0.01505	mg/L	0.001854	-0.1505	mg/L	0.01854	12.32%
Si 288.158†	99.9	0.05743	mg/L	0.003426	0.5743	mg/L	0.03426	5.96%
Sn 189.927†	2.9	0.00390	mg/L	0.001618	0.03897	mg/L	0.016183	41.53%
Sr 421.552†	19012.8	0.02516	mg/L	0.000104	0.2516	mg/L	0.00104	0.41%
Ti 334.903†	5.0	0.00013	mg/L	0.000912	0.00130	mg/L	0.009124	703.80%
Tl 190.801†	-5.6	-0.00396	mg/L	0.002521	-0.03962	mg/L	0.025208	63.63%
V 292.402†	-101.6	-0.00023	mg/L	0.000128	-0.00226	mg/L	0.001281	56.56%
Zn 206.200†	47.6	0.04330	mg/L	0.001509	0.4330	mg/L	0.01509	3.48%

User canceled analysis.

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Analysis Begun

Start Time: 9/12/2006 12:38:47 PM **Plasma On Time: 9/12/2006 8:44:48 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0912.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 11 **Autosampler Location: 29**
Sample ID: JU66 G TWC **Date Collected: 9/12/2006 12:38:47 PM**
Analyst: JLB **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 5X **Sample Prep Vol:**

Nebulizer Parameters: JU66 G TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 G TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1507885.8	82.69	%	0.123				0.15%
ScR 361.383	183066.3	91.36	%	0.655				0.72%
Ag 328.068†	-5.0	-0.00001	mg/L	0.000220	-0.00007	mg/L	0.001099	>999.9%
Al 308.215†	-8.9	-0.00632	mg/L	0.007850	-0.03158	mg/L	0.039251	124.29%
As 188.979†	14.2	0.00878	mg/L	0.002859	0.04391	mg/L	0.014296	32.56%
B 249.677†	1643.8	0.5483	mg/L	0.00673	2.741	mg/L	0.0337	1.23%
Ba 233.527†	97.7	0.02684	mg/L	0.001655	0.1342	mg/L	0.00828	6.17%
Be 313.042†	25.7	0.00004	mg/L	0.000020	0.00020	mg/L	0.000099	50.33%
Ca 317.933†	1178014.7	48.97	mg/L	0.036	244.8	mg/L	0.18	0.07%
Cd 228.802†	1.9	0.00003	mg/L	0.000087	0.00016	mg/L	0.000437	270.79%
Co 228.616†	-11.5	-0.00026	mg/L	0.000193	-0.00130	mg/L	0.000966	74.43%
Cr 267.716†	86.0	-0.00990	mg/L	0.001131	-0.04949	mg/L	0.005657	11.43%
Cu 324.752†	1461.4	0.00340	mg/L	0.000126	0.01702	mg/L	0.000630	3.70%
Fe 273.955†	8.7	0.00829	mg/L	0.000179	0.04143	mg/L	0.000895	2.16%
K 766.490†	69394.7	41.97	mg/L	0.218	209.9	mg/L	1.09	0.52%
Mg 279.077†	227994.3	130.8	mg/L	0.18	654.2	mg/L	0.90	0.14%
Mn 257.610†	11.6	0.00209	mg/L	0.000226	-0.01046	mg/L	0.001128	10.78%
Mo 202.031†	130.1	0.00750	mg/L	0.000343	0.03749	mg/L	0.001716	4.58%
Na 589.592†	Saturated2							
Na 330.237†	32204.6	1060	mg/L	7.5	5302	mg/L	37.3	0.70%
Ni 231.604†	4.2	0.00202	mg/L	0.002043	0.01008	mg/L	0.010217	101.32%
Pb 220.353†	43.4	0.00370	mg/L	0.000413	0.01850	mg/L	0.002067	11.18%
Sb 206.836†	-3.4	-0.00290	mg/L	0.001661	-0.01451	mg/L	0.008306	57.27%
Se 196.026†	-71.1	-0.03809	mg/L	0.003169	-0.1905	mg/L	0.01585	8.32%
Si 288.158†	1750.8	1.007	mg/L	0.0102	5.034	mg/L	0.0508	1.01%
Sn 189.927†	-77.3	-0.00843	mg/L	0.000845	-0.04217	mg/L	0.004226	10.02%
Sr 421.552†	619573.1	0.8198	mg/L	0.00231	4.099	mg/L	0.0115	0.28%
Ti 334.903†	41.9	0.00145	mg/L	0.000589	0.00725	mg/L	0.002946	40.64%
Tl 190.801†	-5.9	-0.00432	mg/L	0.004342	-0.02162	mg/L	0.021710	100.40%
V 292.402†	275.4	0.00088	mg/L	0.000039	0.00440	mg/L	0.000193	4.40%
Zn 206.200†	-1.0	-0.00027	mg/L	0.000144	-0.00134	mg/L	0.000719	53.49%

Sequence No.: 12
Sample ID: JU66 S TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 30
Date Collected: 9/12/2006 12:46:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 S TWC

Analyte	Back Pressure	Flow
All	181.0 kPa	0.50 L/min

Mean Data: JU66 S TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1499142.4	82.21	%	0.269				0.33%
ScR 361.383	181024.2	90.34	%	0.238				0.26%
Ag 328.068†	-70.0	-0.00019	mg/L	0.000197	-0.00096	mg/L	0.000985	102.66%
Al 308.215†	-21.0	-0.01458	mg/L	0.003217	-0.07289	mg/L	0.016083	22.07%
As 188.979†	20.7	0.01404	mg/L	0.003423	0.07022	mg/L	0.017116	24.37%
B 249.677†	1445.8	0.4822	mg/L	0.00237	2.411	mg/L	0.0119	0.49%
Ba 233.527†	92.7	0.02548	mg/L	0.000924	0.1274	mg/L	0.00462	3.63%
Be 313.042†	30.6	0.00005	mg/L	0.000016	0.00023	mg/L	0.000080	34.45%
Ca 317.933†	1173090.1	48.76	mg/L	0.060	243.8	mg/L	0.30	0.12%
Cd 228.802†	-5.4	-0.00017	mg/L	0.000113	-0.00083	mg/L	0.000565	68.28%
Co 228.616†	-6.5	-0.00015	mg/L	0.000279	-0.00073	mg/L	0.001394	190.80%
Cr 267.716†	94.6	-0.00872	mg/L	0.000641	-0.04361	mg/L	0.003205	7.35%
Cu 324.752†	1460.0	0.00341	mg/L	0.000167	0.01704	mg/L	0.000836	4.91%
Fe 273.955†	-8.7	-0.00833	mg/L	0.001292	-0.04167	mg/L	0.006459	15.50%
K 766.490†	69749.1	42.19	mg/L	0.208	210.9	mg/L	1.04	0.49%
Mg 279.077†	226071.1	129.7	mg/L	0.04	648.6	mg/L	0.19	0.03%
Mn 257.610†	-7.4	-0.00273	mg/L	0.000172	-0.01365	mg/L	0.000859	6.29%
Mo 202.031†	125.9	0.00718	mg/L	0.000086	0.03591	mg/L	0.000432	1.20%
Na 589.592†	Saturated2							
Na 330.237†	32316.1	1064	mg/L	3.5	5321	mg/L	17.4	0.33%
Ni 231.604†	3.9	0.00186	mg/L	0.002456	0.00931	mg/L	0.012280	131.95%
Pb 220.353†	42.5	0.00363	mg/L	0.000234	0.01813	mg/L	0.001168	6.44%
Sb 206.836†	2.1	0.00126	mg/L	0.004232	0.00632	mg/L	0.021160	334.73%
Se 196.026†	-69.0	-0.03693	mg/L	0.007154	-0.1847	mg/L	0.03577	19.37%
Si 288.158†	1715.0	0.9862	mg/L	0.00094	4.931	mg/L	0.0047	0.10%
Sn 189.927†	-79.2	-0.00877	mg/L	0.000716	-0.04386	mg/L	0.003581	8.16%
Sr 421.552†	621228.9	0.8220	mg/L	0.00106	4.110	mg/L	0.0053	0.13%
Ti 334.903†	15.6	0.00053	mg/L	0.000644	0.00266	mg/L	0.003222	120.96%
Tl 190.801†	-6.8	-0.00496	mg/L	0.004248	-0.02480	mg/L	0.021238	85.63%
V 292.402†	304.8	0.00097	mg/L	0.000104	0.00486	mg/L	0.000518	10.65%
Zn 206.200†	-3.5	-0.00256	mg/L	0.000799	-0.01281	mg/L	0.003996	31.19%

Sequence No.: 13
Sample ID: CV2
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 12:54:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1736559.2	95.23	%	0.300				0.31%
ScR 361.383	198591.3	99.10	%	0.488				0.49%
Ag 328.068†	368750.4	1.005	mg/L	0.0008	1.005	mg/L	0.0008	0.08%
Al 308.215†	2915.6	1.960	mg/L	0.0135	1.960	mg/L	0.0135	0.69%
As 188.979†	2490.0	2.012	mg/L	0.0181	2.012	mg/L	0.0181	0.90%
B 249.677†	3077.6	1.030	mg/L	0.0057	1.030	mg/L	0.0057	0.55%
Ba 233.527†	3503.3	0.9618	mg/L	0.00487	0.9618	mg/L	0.00487	0.51%
Be 313.042†	636700.5	0.9984	mg/L	0.00209	0.9984	mg/L	0.00209	0.21%
Ca 317.933†	49282.2	2.049	mg/L	0.0069	2.049	mg/L	0.0069	0.34%
Cd 228.802†	39944.1	1.039	mg/L	0.0012	1.039	mg/L	0.0012	0.12%
Co 228.616†	45548.7	1.003	mg/L	0.0009	1.003	mg/L	0.0009	0.09%
Cr 267.716†	8189.1	0.9619	mg/L	0.00640	0.9619	mg/L	0.00640	0.67%
Cu 324.752†	336364.0	1.042	mg/L	0.0010	1.042	mg/L	0.0010	0.10%
Fe 273.955†	2104.5	2.001	mg/L	0.0167	2.001	mg/L	0.0167	0.83%
K 766.490†	32502.0	19.66	mg/L	0.088	19.66	mg/L	0.088	0.45%
Mg 279.077†	3478.0	2.000	mg/L	0.0067	2.000	mg/L	0.0067	0.34%
Mn 257.610†	27132.4	0.9428	mg/L	0.00531	0.9428	mg/L	0.00531	0.56%
Mo 202.031†	12512.3	1.019	mg/L	0.0059	1.019	mg/L	0.0059	0.57%
Na 589.592†	345379.0	51.76	mg/L	0.102	51.76	mg/L	0.102	0.20%
Na 330.237†	1520.4	50.07	mg/L	0.209	50.07	mg/L	0.209	0.42%
Ni 231.604†	2093.9	0.9996	mg/L	0.00629	0.9996	mg/L	0.00629	0.63%
Pb 220.353†	23915.0	2.032	mg/L	0.0052	2.032	mg/L	0.0052	0.26%
Sb 206.836†	2806.6	2.122	mg/L	0.0090	2.122	mg/L	0.0090	0.42%
Se 196.026†	3785.4	2.026	mg/L	0.0132	2.026	mg/L	0.0132	0.65%
Si 288.158†	3299.4	1.899	mg/L	0.0100	1.899	mg/L	0.0100	0.53%
Sn 189.927†	5682.8	1.003	mg/L	0.0069	1.003	mg/L	0.0069	0.68%
Sr 421.552†	750053.9	0.9924	mg/L	0.00177	0.9924	mg/L	0.00177	0.18%
Ti 334.903†	29189.7	1.017	mg/L	0.0014	1.017	mg/L	0.0014	0.14%
Tl 190.801†	2712.5	1.993	mg/L	0.0111	1.993	mg/L	0.0111	0.56%
V 292.402†	352389.2	1.032	mg/L	0.0010	1.032	mg/L	0.0010	0.10%
Zn 206.200†	1114.3	1.008	mg/L	0.0075	1.008	mg/L	0.0075	0.75%

Sequence No.: 14
Sample ID: CB 2
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 1:02:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1800456.5	98.74	%	0.622				0.63%
ScR 361.383	200624.6	100.1	%	0.77				0.77%
Ag 328.068†	43.1	0.00012	mg/L	0.000253	0.00012	mg/L	0.000253	215.80%
Al 308.215†	2.8	0.00194	mg/L	0.009485	0.00194	mg/L	0.009485	489.47%
As 188.979†	-1.4	-0.00116	mg/L	0.002093	-0.00116	mg/L	0.002093	180.53%
B 249.677†	104.5	0.03484	mg/L C.O	0.002429	0.03484	mg/L	0.002429	6.97%
Ba 233.527†	2.1	0.00057	mg/L	0.001484	0.00057	mg/L	0.001484	259.83%
Be 313.042†	-79.7	-0.00013	mg/L	0.000043	-0.00013	mg/L	0.000043	34.35%
Ca 317.933†	7.0	0.00029	mg/L	0.001181	0.00029	mg/L	0.001181	408.48%
Cd 228.802†	1.6	0.00004	mg/L	0.000109	0.00004	mg/L	0.000109	260.13%
Co 228.616†	-11.4	-0.00025	mg/L	0.000157	-0.00025	mg/L	0.000157	61.78%
Cr 267.716†	-9.5	-0.00111	mg/L	0.000854	-0.00111	mg/L	0.000854	76.90%
Cu 324.752†	100.6	0.00031	mg/L	0.000132	0.00031	mg/L	0.000132	42.31%
Fe 273.955†	0.1	0.00014	mg/L	0.000732	0.00014	mg/L	0.000732	512.99%
K 766.490†	183.6	0.1110	mg/L	0.03698	0.1110	mg/L	0.03698	33.31%
Mg 279.077†	-14.0	-0.00804	mg/L	0.006679	-0.00804	mg/L	0.006679	83.10%
Mn 257.610†	-4.7	-0.00016	mg/L	0.000162	-0.00016	mg/L	0.000162	99.93%
Mo 202.031†	6.7	0.00054	mg/L	0.000219	0.00054	mg/L	0.000219	40.13%
Na 589.592†	4892.6	0.7332	mg/L C.O	0.00519	0.7332	mg/L	0.00519	0.71%
Na 330.237†	24.2	0.7967	mg/L	0.76018	0.7967	mg/L	0.76018	95.42%
Ni 231.604†	-0.8	-0.00038	mg/L	0.000455	-0.00038	mg/L	0.000455	118.22%
Pb 220.353†	2.7	0.00023	mg/L	0.000593	0.00023	mg/L	0.000593	262.63%
Sb 206.836†	-2.4	-0.00183	mg/L	0.002765	-0.00183	mg/L	0.002765	151.39%
Se 196.026†	-12.1	-0.00647	mg/L	0.002707	-0.00647	mg/L	0.002707	41.83%
Si 288.158†	16.6	0.00956	mg/L	0.001089	0.00956	mg/L	0.001089	11.40%
Sn 189.927†	-3.0	-0.00054	mg/L	0.000763	-0.00054	mg/L	0.000763	142.34%
Sr 421.552†	33.7	0.00004	mg/L	0.000151	0.00004	mg/L	0.000151	339.49%
Ti 334.903†	22.5	0.00078	mg/L	0.001031	0.00078	mg/L	0.001031	131.45%
Tl 190.801†	-3.5	-0.00255	mg/L	0.003083	-0.00255	mg/L	0.003083	120.70%
V 292.402†	2.2	0.00000	mg/L	0.000159	0.00000	mg/L	0.000159	>999.9%
Zn 206.200†	-3.1	-0.00280	mg/L	0.001037	-0.00280	mg/L	0.001037	37.05%

Sequence No.: 15
Sample ID: JU66 W TWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 31
Date Collected: 9/12/2006 1:08:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU66 W TWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JU66 W TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1536164.0	84.24	%	1.225				1.45%
ScR 361.383	180429.5	90.04	%	0.388				0.43%
Ag 328.068†	-46.3	-0.00013	mg/L	0.000064	-0.00064	mg/L	0.000321	50.44%
Al 308.215†	-13.8	-0.00964	mg/L	0.003470	-0.04821	mg/L	0.017349	35.99%
As 188.979†	7.9	0.00400	mg/L	0.007354	0.02001	mg/L	0.036768	183.72%
B 249.677†	1005.1	0.3353	mg/L	0.01852	1.676	mg/L	0.0926	5.52%
Ba 233.527†	174.5	0.04793	mg/L	0.001510	0.2396	mg/L	0.00755	3.15%
Be 313.042†	26.8	0.00004	mg/L	0.000022	0.00021	mg/L	0.000109	52.97%
Ca 317.933†	1034814.9	43.02	mg/L	2.849	215.1	mg/L	14.25	6.62%
Cd 228.802†	0.8	0.00001	mg/L	0.000243	0.00005	mg/L	0.001213	>999.9%
Co 228.616†	-2.6	-0.00007	mg/L	0.000228	-0.00034	mg/L	0.001141	336.98%
Cr 267.716†	78.8	-0.00668	mg/L	0.001398	-0.03342	mg/L	0.006991	20.92%
Cu 324.752†	1261.7	0.00301	mg/L	0.000177	0.01506	mg/L	0.000885	5.88%
Fe 273.955†	-10.0	-0.00950	mg/L	0.001069	-0.04748	mg/L	0.005343	11.25%
K 766.490†	54647.8	33.05	mg/L	2.259	165.3	mg/L	11.29	6.83%
Mg 279.077†	181668.6	104.2	mg/L	6.75	521.2	mg/L	33.75	6.47%
Mn 257.610†	3.9	-0.00188	mg/L	0.000174	-0.00938	mg/L	0.000870	9.28%
Mo 202.031†	102.7	0.00589	mg/L	0.000669	0.02947	mg/L	0.003343	11.34%
Na 589.592†	5864426.6	878.8	mg/L	62.10	4394	mg/L	310.5	7.07%
Na 330.237†	26206.7	862.9	mg/L	54.88	4315	mg/L	274.4	6.36%
Ni 231.604†	-0.1	-0.00006	mg/L	0.001073	-0.00032	mg/L	0.005364	>999.9%
Pb 220.353†	38.3	0.00326	mg/L	0.000291	0.01631	mg/L	0.001453	8.91%
Sb 206.836†	-0.2	-0.00043	mg/L	0.001524	-0.00215	mg/L	0.007620	354.40%
Se 196.026†	-49.8	-0.02668	mg/L	0.005077	-0.1334	mg/L	0.02538	19.03%
Si 288.158†	1957.5	1.126	mg/L	0.0652	5.628	mg/L	0.3261	5.79%
Sn 189.927†	-57.0	-0.00521	mg/L	0.000682	-0.02604	mg/L	0.003412	13.10%
Sr 421.552†	512795.6	0.6785	mg/L	0.04502	3.393	mg/L	0.2251	6.64%
Ti 334.903†	38.8	0.00134	mg/L	0.001162	0.00671	mg/L	0.005809	86.56%
Tl 190.801†	-3.5	-0.00254	mg/L	0.003426	-0.01268	mg/L	0.017132	135.14%
V 292.402†	182.9	0.00060	mg/L	0.000035	0.00301	mg/L	0.000174	5.76%
Zn 206.200†	-0.5	0.00014	mg/L	0.000992	0.00072	mg/L	0.004962	689.56%

Sequence No.: 16
Sample ID: CRI
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 8
Date Collected: 9/12/2006 1:18:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1706511.9	93.58	%	0.448				0.48%
ScR 361.383	185919.1	92.78	%	1.303				1.40%
Ag 328.068†	1167.7	0.00318	mg/L	0.000051	0.00318	mg/L	0.000051	1.61%
Al 308.215†	65.1	0.04447	mg/L	0.009916	0.04447	mg/L	0.009916	22.30%
As 188.979†	66.1	0.05349	mg/L	0.005351	0.05349	mg/L	0.005351	10.00%
B 249.677†	124.0	0.04140	mg/L	0.003335	0.04140	mg/L	0.003335	8.06%
Ba 233.527†	13.1	0.00358	mg/L	0.001405	0.00358	mg/L	0.001405	39.24%
Be 313.042†	692.2	0.00108	mg/L	0.000053	0.00108	mg/L	0.000053	4.93%
Ca 317.933†	1452.1	0.06036	mg/L	0.000608	0.06036	mg/L	0.000608	1.01%
Cd 228.802†	84.5	0.00213	mg/L	0.000058	0.00213	mg/L	0.000058	2.70%
Co 228.616†	138.8	0.00305	mg/L	0.000182	0.00305	mg/L	0.000182	5.95%
Cr 267.716†	50.6	0.00594	mg/L	0.000238	0.00594	mg/L	0.000238	4.01%
Cu 324.752†	970.6	0.00301	mg/L	0.000194	0.00301	mg/L	0.000194	6.45%
Fe 273.955†	55.7	0.05304	mg/L	0.001548	0.05304	mg/L	0.001548	2.92%
K 766.490†	1369.0	0.8280	mg/L	0.04186	0.8280	mg/L	0.04186	5.06%
Mg 279.077†	98.4	0.05647	mg/L	0.007013	0.05647	mg/L	0.007013	12.42%
Mn 257.610†	31.4	0.00110	mg/L	0.000167	0.00110	mg/L	0.000167	15.23%
Mo 202.031†	62.1	0.00506	mg/L	0.000291	0.00506	mg/L	0.000291	5.75%
Na 589.592†	9203.7	1.379	mg/L	0.0453	1.379	mg/L	0.0453	3.28%
Na 330.237†	16.0	0.5252	mg/L	0.18186	0.5252	mg/L	0.18186	34.62%
Ni 231.604†	22.6	0.01081	mg/L	0.002994	0.01081	mg/L	0.002994	27.70%
Pb 220.353†	266.2	0.02262	mg/L	0.000377	0.02262	mg/L	0.000377	1.67%
Sb 206.836†	75.9	0.05742	mg/L	0.001086	0.05742	mg/L	0.001086	1.89%
Se 196.026†	93.6	0.05011	mg/L	0.002041	0.05011	mg/L	0.002041	4.07%
Si 288.158†	176.4	0.1014	mg/L	0.00537	0.1014	mg/L	0.00537	5.29%
Sn 189.927†	61.8	0.01097	mg/L	0.001119	0.01097	mg/L	0.001119	10.20%
Sr 421.552†	971.5	0.00129	mg/L	0.000021	0.00129	mg/L	0.000021	1.64%
Ti 334.903†	132.5	0.00462	mg/L	0.000371	0.00462	mg/L	0.000371	8.03%
Tl 190.801†	77.7	0.05717	mg/L	0.001595	0.05717	mg/L	0.001595	2.79%
V 292.402†	1093.8	0.00323	mg/L	0.000070	0.00323	mg/L	0.000070	2.16%
Zn 206.200†	4.3	0.00388	mg/L	0.001202	0.00388	mg/L	0.001202	30.99%

Sequence No.: 17
Sample ID: ICSA
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 9
Date Collected: 9/12/2006 1:24:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1622154.1	88.96	%	0.499				0.56%
ScR 361.383	187469.8	93.55	%	0.107				0.11%
Ag 328.068†	-3785.1	-0.00186	mg/L	0.000142	-0.00186	mg/L	0.000142	7.65%
Al 308.215†	296103.0	202.9	mg/L	0.99	202.9	mg/L	0.99	0.49%
As 188.979†	25.3	-0.00339	mg/L	0.003867	-0.00339	mg/L	0.003867	113.97%
B 249.677†	44.3	0.01476	mg/L	0.005980	0.01476	mg/L	0.005980	40.51%
Ba 233.527†	50.2	-0.00084	mg/L	0.002226	-0.00084	mg/L	0.002226	264.37%
Be 313.042†	77.7	0.00012	mg/L	0.000023	0.00012	mg/L	0.000023	19.32%
Ca 317.933†	2422383.1	100.7	mg/L	0.54	100.7	mg/L	0.54	0.53%
Cd 228.802†	49.0	-0.00080	mg/L	0.000133	-0.00080	mg/L	0.000133	16.60%
Co 228.616†	-48.7	-0.00240	mg/L	0.000078	-0.00240	mg/L	0.000078	3.25%
Cr 267.716†	-48.7	-0.00418	mg/L	0.000668	-0.00418	mg/L	0.000668	15.98%
Cu 324.752†	-5798.6	0.00040	mg/L	0.000169	0.00040	mg/L	0.000169	41.71%
Fe 273.955†	213582.9	203.4	mg/L	1.70	203.4	mg/L	1.70	0.84%
K 766.490†	318.3	0.1925	mg/L	0.01589	0.1925	mg/L	0.01589	8.25%
Mg 279.077†	176672.0	101.2	mg/L	0.70	101.2	mg/L	0.70	0.69%
Mn 257.610†	94.7	-0.00047	mg/L	0.000270	-0.00047	mg/L	0.000270	57.28%
Mo 202.031†	29.5	0.00450	mg/L	0.000654	0.00450	mg/L	0.000654	14.54%
Na 589.592†	5243.6	0.7858	mg/L	0.00682	0.7858	mg/L	0.00682	0.87%
Na 330.237†	21.7	-0.1849	mg/L	0.25884	-0.1849	mg/L	0.25884	139.97%
Ni 231.604†	-11.3	-0.00535	mg/L	0.000288	-0.00535	mg/L	0.000288	5.38%
Pb 220.353†	-449.9	0.00089	mg/L	0.001019	0.00089	mg/L	0.001019	114.84%
Sb 206.836†	30.2	0.02270	mg/L	0.003457	0.02270	mg/L	0.003457	15.23%
Se 196.026†	-142.6	-0.07635	mg/L	0.003007	-0.07635	mg/L	0.003007	3.94%
Si 288.158†	40.7	0.02337	mg/L	0.003281	0.02337	mg/L	0.003281	14.04%
Sn 189.927†	-117.3	-0.00546	mg/L	0.001798	-0.00546	mg/L	0.001798	32.94%
Sr 421.552†	979.8	0.00130	mg/L	0.000065	0.00130	mg/L	0.000065	4.99%
Ti 334.903†	160.2	0.00559	mg/L	0.000362	0.00559	mg/L	0.000362	6.48%
Tl 190.801†	-35.8	-0.02635	mg/L	0.000643	-0.02635	mg/L	0.000643	2.44%
V 292.402†	515.1	0.00146	mg/L	0.000095	0.00146	mg/L	0.000095	6.53%
Zn 206.200†	-3.6	-0.00734	mg/L	0.001559	-0.00734	mg/L	0.001559	21.24%

Sequence No.: 18
Sample ID: ICSAB
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 10
Date Collected: 9/12/2006 1:31:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1625776.7	89.16	%	0.372				0.42%
ScR 361.383	190656.8	95.15	%	0.305				0.32%
Ag 328.068†	395655.8	1.087	mg/L	0.0012	1.087	mg/L	0.0012	0.11%
Al 308.215†	296991.3	203.5	mg/L	0.19	203.5	mg/L	0.19	0.09%
As 188.979†	1330.1	1.052	mg/L	0.0105	1.052	mg/L	0.0105	1.00%
B 249.677†	22.6	0.00940	mg/L	0.001377	0.00940	mg/L	0.001377	14.65%
Ba 233.527†	3743.1	1.013	mg/L	0.0044	1.013	mg/L	0.0044	0.44%
Be 313.042†	688387.9	1.079	mg/L	0.0008	1.079	mg/L	0.0008	0.08%
Ca 317.933†	2438324.3	101.4	mg/L	0.04	101.4	mg/L	0.04	0.04%
Cd 228.802†	40747.8	1.060	mg/L	0.0011	1.060	mg/L	0.0011	0.10%
Co 228.616†	44445.9	0.9786	mg/L	0.00425	0.9786	mg/L	0.00425	0.43%
Cr 267.716†	8527.0	1.004	mg/L	0.0067	1.004	mg/L	0.0067	0.66%
Cu 324.752†	342471.9	1.081	mg/L	0.0006	1.081	mg/L	0.0006	0.06%
Fe 273.955†	214976.9	204.7	mg/L	0.67	204.7	mg/L	0.67	0.33%
K 766.490†	440.2	0.2662	mg/L	0.01602	0.2662	mg/L	0.01602	6.02%
Mg 279.077†	178099.5	102.1	mg/L	0.04	102.1	mg/L	0.04	0.04%
Mn 257.610†	28513.7	0.9868	mg/L	0.00614	0.9868	mg/L	0.00614	0.62%
Mo 202.031†	30.3	0.00456	mg/L	0.000287	0.00456	mg/L	0.000287	6.30%
Na 589.592†	4517.6	0.6770	mg/L	0.01254	0.6770	mg/L	0.01254	1.85%
Na 330.237†	41.4	0.2066	mg/L	0.23155	0.2066	mg/L	0.23155	112.08%
Ni 231.604†	2082.7	0.9937	mg/L	0.00736	0.9937	mg/L	0.00736	0.74%
Pb 220.353†	11201.7	0.9913	mg/L	0.00527	0.9913	mg/L	0.00527	0.53%
Sb 206.836†	1461.3	1.092	mg/L	0.0083	1.092	mg/L	0.0083	0.76%
Se 196.026†	1841.2	0.9847	mg/L	0.00586	0.9847	mg/L	0.00586	0.59%
Si 288.158†	46.0	0.02854	mg/L	0.001857	0.02854	mg/L	0.001857	6.50%
Sn 189.927†	-131.8	-0.00588	mg/L	0.002006	-0.00588	mg/L	0.002006	34.11%
Sr 421.552†	1135.8	0.00150	mg/L	0.000027	0.00150	mg/L	0.000027	1.76%
Ti 334.903†	157.1	0.00526	mg/L	0.000496	0.00526	mg/L	0.000496	9.42%
Tl 190.801†	1328.1	0.9715	mg/L	0.00845	0.9715	mg/L	0.00845	0.87%
V 292.402†	367228.3	1.075	mg/L	0.0017	1.075	mg/L	0.0017	0.16%
Zn 206.200†	1100.6	0.9918	mg/L	0.00767	0.9918	mg/L	0.00767	0.77%

Sequence No.: 19
Sample ID: CV 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 1:38:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1716958.9	94.16	%	0.505				0.54%
ScR 361.383	195033.8	97.33	%	0.566				0.58%
Ag 328.068†	370591.9	1.010	mg/L	0.0006	1.010	mg/L	0.0006	0.06%
Al 308.215†	2963.2	1.993	mg/L	0.0151	1.993	mg/L	0.0151	0.76%
As 188.979†	2491.9	2.013	mg/L	0.0211	2.013	mg/L	0.0211	1.05%
B 249.677†	2981.9	0.9980	mg/L	0.00380	0.9980	mg/L	0.00380	0.38%
Ba 233.527†	3535.8	0.9708	mg/L	0.00641	0.9708	mg/L	0.00641	0.66%
Be 313.042†	639962.0	1.003	mg/L	0.0019	1.003	mg/L	0.0019	0.19%
Ca 317.933†	49577.8	2.061	mg/L	0.0031	2.061	mg/L	0.0031	0.15%
Cd 228.802†	40174.9	1.046	mg/L	0.0021	1.046	mg/L	0.0021	0.20%
Co 228.616†	45486.1	1.002	mg/L	0.0013	1.002	mg/L	0.0013	0.13%
Cr 267.716†	8280.1	0.9726	mg/L	0.00580	0.9726	mg/L	0.00580	0.60%
Cu 324.752†	338725.7	1.050	mg/L	0.0008	1.050	mg/L	0.0008	0.08%
Fe 273.955†	2142.8	2.038	mg/L	0.0176	2.038	mg/L	0.0176	0.86%
K 766.490†	32481.0	19.65	mg/L	0.036	19.65	mg/L	0.036	0.18%
Mg 279.077†	3491.8	2.008	mg/L	0.0120	2.008	mg/L	0.0120	0.60%
Mn 257.610†	27446.9	0.9537	mg/L	0.00516	0.9537	mg/L	0.00516	0.54%
Mo 202.031†	12593.5	1.026	mg/L	0.0080	1.026	mg/L	0.0080	0.78%
Na 589.592†	342639.7	51.34	mg/L	0.118	51.34	mg/L	0.118	0.23%
Na 330.237†	1532.7	50.47	mg/L	0.277	50.47	mg/L	0.277	0.55%
Ni 231.604†	2114.1	1.009	mg/L	0.0056	1.009	mg/L	0.0056	0.56%
Pb 220.353†	24070.6	2.045	mg/L	0.0044	2.045	mg/L	0.0044	0.21%
Sb 206.836†	2830.3	2.140	mg/L	0.0263	2.140	mg/L	0.0263	1.23%
Se 196.026†	3782.8	2.024	mg/L	0.0138	2.024	mg/L	0.0138	0.68%
Si 288.158†	3303.9	1.902	mg/L	0.0158	1.902	mg/L	0.0158	0.83%
Sn 189.927†	5702.4	1.006	mg/L	0.0073	1.006	mg/L	0.0073	0.72%
Sr 421.552†	757819.6	1.003	mg/L	0.0010	1.003	mg/L	0.0010	0.10%
Ti 334.903†	29413.3	1.025	mg/L	0.0013	1.025	mg/L	0.0013	0.13%
Tl 190.801†	2721.5	2.000	mg/L	0.0158	2.000	mg/L	0.0158	0.79%
V 292.402†	354809.4	1.039	mg/L	0.0012	1.039	mg/L	0.0012	0.11%
Zn 206.200†	1119.6	1.013	mg/L	0.0052	1.013	mg/L	0.0052	0.52%

Sequence No.: 20
Sample ID: CB 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 1:45:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1771980.1	97.18	%	0.229				0.24%
ScR 361.383	199175.1	99.40	%	0.448				0.45%
Ag 328.068†	58.1	0.00016	mg/L	0.000165	0.00016	mg/L	0.000165	104.40%
Al 308.215†	1.4	0.00096	mg/L	0.009518	0.00096	mg/L	0.009518	990.13%
As 188.979†	0.7	0.00055	mg/L	0.003155	0.00055	mg/L	0.003155	570.01%
B 249.677†	26.9	0.00898	mg/L	0.002751	0.00898	mg/L	0.002751	30.62%
Ba 233.527†	2.6	0.00072	mg/L	0.000852	0.00072	mg/L	0.000852	117.79%
Be 313.042†	-35.8	-0.00006	mg/L	0.000006	-0.00006	mg/L	0.000006	10.26%
Ca 317.933†	8.7	0.00036	mg/L	0.000943	0.00036	mg/L	0.000943	261.31%
Cd 228.802†	2.5	0.00006	mg/L	0.000125	0.00006	mg/L	0.000125	195.30%
Co 228.616†	-2.3	-0.00005	mg/L	0.000215	-0.00005	mg/L	0.000215	426.18%
Cr 267.716†	-0.7	-0.00009	mg/L	0.000763	-0.00009	mg/L	0.000763	894.88%
Cu 324.752†	146.2	0.00045	mg/L	0.000085	0.00045	mg/L	0.000085	18.71%
Fe 273.955†	0.7	0.00068	mg/L	0.001197	0.00068	mg/L	0.001197	175.16%
K 766.490†	144.2	0.08724	mg/L	0.014782	0.08724	mg/L	0.014782	16.94%
Mg 279.077†	-10.2	-0.00587	mg/L	0.005848	-0.00587	mg/L	0.005848	99.59%
Mn 257.610†	-8.7	-0.00030	mg/L	0.000122	-0.00030	mg/L	0.000122	40.56%
Mo 202.031†	2.3	0.00019	mg/L	0.000149	0.00019	mg/L	0.000149	78.01%
Na 589.592†	978.8	0.1467	mg/L	0.01763	0.1467	mg/L	0.01763	12.02%
Na 330.237†	-8.9	-0.2921	mg/L	0.78237	-0.2921	mg/L	0.78237	267.84%
Ni 231.604†	-0.0	-0.00001	mg/L	0.002131	-0.00001	mg/L	0.002131	>999.9%
Pb 220.353†	6.2	0.00052	mg/L	0.000574	0.00052	mg/L	0.000574	109.47%
Sb 206.836†	-2.8	-0.00214	mg/L	0.001768	-0.00214	mg/L	0.001768	82.74%
Se 196.026†	-0.2	-0.00011	mg/L	0.004328	-0.00011	mg/L	0.004328	>999.9%
Si 288.158†	13.3	0.00766	mg/L	0.004545	0.00766	mg/L	0.004545	59.35%
Sn 189.927†	0.7	0.00013	mg/L	0.000251	0.00013	mg/L	0.000251	198.99%
Sr 421.552†	105.7	0.00014	mg/L	0.000035	0.00014	mg/L	0.000035	25.08%
Ti 334.903†	-0.6	-0.00002	mg/L	0.001247	-0.00002	mg/L	0.001247	>999.9%
Tl 190.801†	4.2	0.00307	mg/L	0.005475	0.00307	mg/L	0.005475	178.04%
V 292.402†	-16.3	-0.00005	mg/L	0.000147	-0.00005	mg/L	0.000147	306.02%
Zn 206.200†	-0.9	-0.00081	mg/L	0.000558	-0.00081	mg/L	0.000558	68.44%

Analysis Begun

Start Time: 9/12/2006 1:51:27 PM
Plasma On Time: 9/12/2006 8:44:48 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0912A.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: JU43 B SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X
Autosampler Location: 21
Date Collected: 9/12/2006 1:51:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 B SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JU43 B SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1795654.6	98.47	%	0.657				0.67%
ScR 361.383	210196.6	104.9	%	0.27				0.25%
Ag 328.068†	-2099.1	0.00328	mg/L	0.000138	0.00656	mg/L	0.000276	4.20%
Al 308.215†	284699.1	195.1	mg/L	0.64	390.2	mg/L	1.29	0.33%
As 188.979†	105.0	0.03981	mg/L	0.001494	0.07962	mg/L	0.002988	3.75%
B 249.677†	75.5	0.02236	mg/L	0.003059	0.04471	mg/L	0.006118	13.68%
Ba 233.527†	3609.4	0.9751	mg/L	0.00396	1.950	mg/L	0.0079	0.41%
Be 313.042†	2418.1	0.00283	mg/L	0.000046	0.00566	mg/L	0.000091	1.61%
Ca 317.933†	960502.6	39.93	mg/L	0.157	79.86	mg/L	0.314	0.39%
Cd 228.802†	635.6	0.01418	mg/L	0.000286	0.02836	mg/L	0.000571	2.01%
Co 228.616†	4894.0	0.08907	mg/L	0.001002	0.1781	mg/L	0.00200	1.12%
Cr 267.716†	1846.6	0.2275	mg/L	0.00121	0.4550	mg/L	0.00242	0.53%
Cu 324.752†	106365.1	0.3486	mg/L	0.00181	0.6972	mg/L	0.00362	0.52%
Fe 273.955†	235143.0	223.9	mg/L	0.75	447.8	mg/L	1.50	0.33%
K 766.490†	10897.0	6.591	mg/L	0.0452	13.18	mg/L	0.090	0.69%
Mg 279.077†	66373.1	37.92	mg/L	0.064	75.85	mg/L	0.127	0.17%
Mn 257.610†	88513.0	3.072	mg/L	0.0101	6.144	mg/L	0.0202	0.33%
Mo 202.031†	11.0	0.00432	mg/L	0.000311	0.00863	mg/L	0.000623	7.21%
Na 589.592†	25788.6	3.864	mg/L	0.0151	7.729	mg/L	0.0301	0.39%
Na 330.237†	75.6	3.798	mg/L	0.2178	7.596	mg/L	0.4357	5.74%
Ni 231.604†	386.8	0.1844	mg/L	0.00401	0.3689	mg/L	0.00801	2.17%
Pb 220.353†	11968.6	1.054	mg/L	0.0057	2.107	mg/L	0.0113	0.54%
Sb 206.836†	22.9	0.02432	mg/L	0.001913	0.04864	mg/L	0.003827	7.87%
Se 196.026†	-108.1	-0.06136	mg/L	0.009689	-0.1227	mg/L	0.01938	15.79%
Si 288.158†	4472.6	2.572	mg/L	0.0092	5.145	mg/L	0.0185	0.36%
Sn 189.927†	-4.6	0.00342	mg/L	0.001394	0.00684	mg/L	0.002787	40.73%
Sr 421.552†	362441.4	0.4796	mg/L	0.00176	0.9591	mg/L	0.00352	0.37%
Ti 334.903†	276818.3	9.657	mg/L	0.0309	19.31	mg/L	0.062	0.32%
Tl 190.801†	-21.6	-0.02625	mg/L	0.003698	-0.05250	mg/L	0.007396	14.09%
V 292.402†	212765.7	0.6163	mg/L	0.00338	1.233	mg/L	0.0068	0.55%
Zn 206.200†	3320.5	3.001	mg/L	0.0067	6.002	mg/L	0.0133	0.22%

Sequence No.: 2
Sample ID: JU43 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 22
Date Collected: 9/12/2006 1:57:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 C SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1791833.2	98.26	%	0.081				0.08%
ScR 361.383	205088.1	102.3	%	0.24				0.23%
Ag 328.068†	-2652.9	0.00114	mg/L	0.000318	0.00227	mg/L	0.000636	27.97%
Al 308.215†	254494.0	174.4	mg/L	0.41	348.8	mg/L	0.83	0.24%
As 188.979†	93.6	0.03430	mg/L	0.005297	0.06859	mg/L	0.010595	15.45%
B 249.677†	67.8	0.01984	mg/L	0.002652	0.03968	mg/L	0.005304	13.37%
Ba 233.527†	3199.1	0.8634	mg/L	0.00507	1.727	mg/L	0.0101	0.59%
Be 313.042†	2204.3	0.00259	mg/L	0.000026	0.00518	mg/L	0.000051	0.99%
Ca 317.933†	896133.8	37.25	mg/L	0.072	74.50	mg/L	0.144	0.19%
Cd 228.802†	638.9	0.01442	mg/L	0.000132	0.02885	mg/L	0.000264	0.91%
Co 228.616†	5332.2	0.09988	mg/L	0.000678	0.1998	mg/L	0.00136	0.68%
Cr 267.716†	1467.5	0.1822	mg/L	0.00107	0.3644	mg/L	0.00214	0.59%
Cu 324.752†	85523.8	0.2829	mg/L	0.00038	0.5658	mg/L	0.00077	0.14%
Fe 273.955†	221129.7	210.5	mg/L	0.59	421.1	mg/L	1.19	0.28%
K 766.490†	9155.8	5.538	mg/L	0.0181	11.08	mg/L	0.036	0.33%
Mg 279.077†	60214.3	34.40	mg/L	0.070	68.80	mg/L	0.140	0.20%
Mn 257.610†	99154.9	3.442	mg/L	0.0080	6.884	mg/L	0.0160	0.23%
Mo 202.031†	15.8	0.00433	mg/L	0.000438	0.00867	mg/L	0.000875	10.10%
Na 589.592†	24107.3	3.612	mg/L	0.0059	7.225	mg/L	0.0118	0.16%
Na 330.237†	89.6	4.029	mg/L	0.2838	8.058	mg/L	0.5675	7.04%
Ni 231.604†	454.8	0.2169	mg/L	0.00163	0.4338	mg/L	0.00326	0.75%
Pb 220.353†	10833.9	0.9533	mg/L	0.00704	1.907	mg/L	0.0141	0.74%
Sb 206.836†	18.5	0.02088	mg/L	0.003688	0.04176	mg/L	0.007376	17.66%
Se 196.026†	-94.5	-0.05453	mg/L	0.005685	-0.1091	mg/L	0.01137	10.43%
Si 288.158†	3859.3	2.220	mg/L	0.0063	4.439	mg/L	0.0127	0.29%
Sn 189.927†	-29.4	-0.00119	mg/L	0.000840	-0.00238	mg/L	0.001680	70.64%
Sr 421.552†	345911.8	0.4577	mg/L	0.00112	0.9154	mg/L	0.00224	0.24%
Ti 334.903†	257660.6	8.988	mg/L	0.0195	17.98	mg/L	0.039	0.22%
Tl 190.801†	-16.6	-0.02185	mg/L	0.002019	-0.04370	mg/L	0.004038	9.24%
V 292.402†	190870.5	0.5527	mg/L	0.00061	1.105	mg/L	0.0012	0.11%
Zn 206.200†	3702.4	3.347	mg/L	0.0078	6.694	mg/L	0.0156	0.23%

Sequence No.: 3
Sample ID: JU43 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 25

Autosampler Location: 23
Date Collected: 9/12/2006 2:03:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 D SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1793217.6	98.34	%	0.452				0.46%
ScR 361.383	205596.1	102.6	%	0.49				0.48%
Ag 328.068†	-2764.7	0.00084	mg/L	0.000082	0.00169	mg/L	0.000164	9.72%
Al 308.215†	260706.0	178.7	mg/L	0.08	357.3	mg/L	0.16	0.04%
As 188.979†	79.5	0.02344	mg/L	0.002433	0.04688	mg/L	0.004867	10.38%
B 249.677†	64.3	0.01880	mg/L	0.002176	0.03759	mg/L	0.004351	11.57%
Ba 233.527†	3348.2	0.9041	mg/L	0.00477	1.808	mg/L	0.0095	0.53%
Be 313.042†	2347.0	0.00282	mg/L	0.000041	0.00563	mg/L	0.000081	1.44%
Ca 317.933†	884027.1	36.75	mg/L	0.081	73.50	mg/L	0.162	0.22%
Cd 228.802†	132.5	0.00118	mg/L	0.000105	0.00235	mg/L	0.000210	8.94%
Co 228.616†	5100.2	0.09510	mg/L	0.000230	0.1902	mg/L	0.00046	0.24%
Cr 267.716†	1577.9	0.1950	mg/L	0.00073	0.3900	mg/L	0.00147	0.38%
Cu 324.752†	87359.7	0.2889	mg/L	0.00079	0.5779	mg/L	0.00157	0.27%
Fe 273.955†	224686.2	213.9	mg/L	1.27	427.9	mg/L	2.54	0.59%
K 766.490†	9542.9	5.772	mg/L	0.0245	11.54	mg/L	0.049	0.42%
Mg 279.077†	61523.0	35.15	mg/L	0.079	70.29	mg/L	0.157	0.22%
Mn 257.610†	121861.6	4.230	mg/L	0.0114	8.461	mg/L	0.0227	0.27%
Mo 202.031†	13.8	0.00424	mg/L	0.000459	0.00849	mg/L	0.000918	10.82%
Na 589.592†	23713.1	3.553	mg/L	0.0137	7.107	mg/L	0.0274	0.39%
Na 330.237†	48.5	3.262	mg/L	0.2425	6.524	mg/L	0.4850	7.43%
Ni 231.604†	329.3	0.1570	mg/L	0.00240	0.3140	mg/L	0.00481	1.53%
Pb 220.353†	1814.7	0.1886	mg/L	0.00104	0.3772	mg/L	0.00208	0.55%
Sb 206.836†	18.6	0.02060	mg/L	0.004945	0.04121	mg/L	0.009890	24.00%
Se 196.026†	-104.5	-0.06078	mg/L	0.010315	-0.1216	mg/L	0.02063	16.97%
Si 288.158†	4259.3	2.450	mg/L	0.0194	4.899	mg/L	0.0388	0.79%
Sn 189.927†	-10.1	0.00209	mg/L	0.001393	0.00419	mg/L	0.002786	66.55%
Sr 421.552†	343076.6	0.4539	mg/L	0.00036	0.9079	mg/L	0.00073	0.08%
Ti 334.903†	251759.7	8.783	mg/L	0.0087	17.57	mg/L	0.017	0.10%
Tl 190.801†	-15.8	-0.02104	mg/L	0.003974	-0.04209	mg/L	0.007948	18.88%
V 292.402†	190746.8	0.5526	mg/L	0.00195	1.105	mg/L	0.0039	0.35%
Zn 206.200†	925.1	0.8323	mg/L	0.00912	1.665	mg/L	0.0182	1.10%

Sequence No.: 4
Sample ID: JU43 E SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 24
Date Collected: 9/12/2006 2:10:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 E SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JU43 E SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1819625.7	99.79	%	0.051				0.05%
ScR 361.383	208781.4	104.2	%	1.11				1.07%
Ag 328.068†	-3223.3	0.00035	mg/L	0.000154	0.00070	mg/L	0.000309	44.38%
Al 308.215†	280806.5	192.4	mg/L	1.68	384.9	mg/L	3.36	0.87%
As 188.979†	86.2	0.02608	mg/L	0.008614	0.05216	mg/L	0.017229	33.03%
B 249.677†	68.9	0.02018	mg/L	0.001348	0.04037	mg/L	0.002695	6.68%
Ba 233.527†	3546.9	0.9575	mg/L	0.00814	1.915	mg/L	0.0163	0.85%
Be 313.042†	2532.7	0.00305	mg/L	0.000069	0.00610	mg/L	0.000138	2.26%
Ca 317.933†	963626.2	40.06	mg/L	0.331	80.12	mg/L	0.662	0.83%
Cd 228.802†	124.1	0.00079	mg/L	0.000049	0.00157	mg/L	0.000097	6.18%
Co 228.616†	5130.8	0.09477	mg/L	0.000342	0.1895	mg/L	0.00068	0.36%
Cr 267.716†	1590.7	0.1973	mg/L	0.00281	0.3946	mg/L	0.00562	1.42%
Cu 324.752†	81371.3	0.2718	mg/L	0.00050	0.5435	mg/L	0.00100	0.18%
Fe 273.955†	241721.6	230.2	mg/L	2.74	460.3	mg/L	5.49	1.19%
K 766.490†	9991.6	6.043	mg/L	0.0916	12.09	mg/L	0.183	1.52%
Mg 279.077†	69553.1	39.74	mg/L	0.262	79.49	mg/L	0.524	0.66%
Mn 257.610†	109890.1	3.814	mg/L	0.0395	7.629	mg/L	0.0790	1.04%
Mo 202.031†	19.1	0.00487	mg/L	0.000264	0.00975	mg/L	0.000527	5.41%
Na 589.592†	25219.1	3.779	mg/L	0.0437	7.558	mg/L	0.0874	1.16%
Na 330.237†	63.0	3.763	mg/L	0.2144	7.527	mg/L	0.4288	5.70%
Ni 231.604†	361.3	0.1723	mg/L	0.00382	0.3446	mg/L	0.00763	2.22%
Pb 220.353†	1842.3	0.1936	mg/L	0.00148	0.3873	mg/L	0.00297	0.77%
Sb 206.836†	19.2	0.02154	mg/L	0.001668	0.04308	mg/L	0.003335	7.74%
Se 196.026†	-108.9	-0.06266	mg/L	0.003895	-0.1253	mg/L	0.00779	6.22%
Si 288.158†	4359.3	2.507	mg/L	0.0175	5.014	mg/L	0.0351	0.70%
Sn 189.927†	-18.4	0.00099	mg/L	0.000999	0.00198	mg/L	0.001999	100.98%
Sr 421.552†	362007.1	0.4790	mg/L	0.00424	0.9580	mg/L	0.00848	0.89%
Ti 334.903†	265826.3	9.273	mg/L	0.0799	18.55	mg/L	0.160	0.86%
Tl 190.801†	-22.6	-0.02657	mg/L	0.002712	-0.05314	mg/L	0.005424	10.21%
V 292.402†	203730.2	0.5901	mg/L	0.00105	1.180	mg/L	0.0021	0.18%
Zn 206.200†	1222.4	1.101	mg/L	0.0070	2.202	mg/L	0.0141	0.64%

Sequence No.: 5
Sample ID: JU43 F SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 9/12/2006 2:16:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 F SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 F SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1799882.0	98.71	%	0.204				0.21%
ScR 361.383	206154.1	102.9	%	0.50				0.48%
Ag 328.068†	-2818.0	0.00108	mg/L	0.000218	0.00216	mg/L	0.000435	20.11%
Al 308.215†	269861.1	184.9	mg/L	0.42	369.9	mg/L	0.84	0.23%
As 188.979†	87.7	0.02696	mg/L	0.002806	0.05393	mg/L	0.005611	10.41%
B 249.677†	59.1	0.01680	mg/L	0.001196	0.03360	mg/L	0.002392	7.12%
Ba 233.527†	3283.1	0.8858	mg/L	0.00444	1.772	mg/L	0.0089	0.50%
Be 313.042†	2230.1	0.00259	mg/L	0.000063	0.00518	mg/L	0.000126	2.43%
Ca 317.933†	936896.2	38.95	mg/L	0.143	77.89	mg/L	0.287	0.37%
Cd 228.802†	198.8	0.00285	mg/L	0.000052	0.00571	mg/L	0.000104	1.81%
Co 228.616†	4840.7	0.08790	mg/L	0.000383	0.1758	mg/L	0.00077	0.44%
Cr 267.716†	1602.9	0.1986	mg/L	0.00058	0.3972	mg/L	0.00116	0.29%
Cu 324.752†	94598.8	0.3116	mg/L	0.00116	0.6233	mg/L	0.00232	0.37%
Fe 273.955†	229662.3	218.7	mg/L	1.74	437.3	mg/L	3.48	0.80%
K 766.490†	10688.4	6.465	mg/L	0.0153	12.93	mg/L	0.031	0.24%
Mg 279.077†	63577.7	36.32	mg/L	0.155	72.65	mg/L	0.310	0.43%
Mn 257.610†	90230.5	3.132	mg/L	0.0115	6.263	mg/L	0.0229	0.37%
Mo 202.031†	19.7	0.00484	mg/L	0.000766	0.00968	mg/L	0.001532	15.83%
Na 589.592†	24715.3	3.704	mg/L	0.0265	7.407	mg/L	0.0530	0.71%
Na 330.237†	63.2	3.653	mg/L	0.1722	7.306	mg/L	0.3444	4.71%
Ni 231.604†	346.3	0.1651	mg/L	0.00208	0.3303	mg/L	0.00417	1.26%
Pb 220.353†	3471.0	0.3304	mg/L	0.00128	0.6608	mg/L	0.00256	0.39%
Sb 206.836†	16.9	0.02012	mg/L	0.000488	0.04024	mg/L	0.000976	2.43%
Se 196.026†	-109.0	-0.06193	mg/L	0.001796	-0.1239	mg/L	0.00359	2.90%
Si 288.158†	12088.3	6.952	mg/L	0.0171	13.90	mg/L	0.034	0.25%
Sn 189.927†	-13.4	0.00170	mg/L	0.000948	0.00340	mg/L	0.001897	55.81%
Sr 421.552†	348628.3	0.4613	mg/L	0.00093	0.9226	mg/L	0.00186	0.20%
Ti 334.903†	276320.0	9.639	mg/L	0.0263	19.28	mg/L	0.053	0.27%
Tl 190.801†	-10.8	-0.01813	mg/L	0.002490	-0.03626	mg/L	0.004980	13.73%
V 292.402†	199930.9	0.5788	mg/L	0.00249	1.158	mg/L	0.0050	0.43%
Zn 206.200†	2190.2	1.978	mg/L	0.0086	3.955	mg/L	0.0173	0.44%

Sequence No.: 6
Sample ID: JU43 L SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 9/12/2006 2:22:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 L SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 L SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1805766.2	99.03	%	0.675				0.68%
ScR 361.383	207728.8	103.7	%	0.86				0.83%
Ag 328.068†	-4014.3	-0.00166	mg/L	0.000159	-0.00331	mg/L	0.000318	9.62%
Al 308.215†	231533.7	158.7	mg/L	0.42	317.3	mg/L	0.84	0.27%
As 188.979†	122.9	0.05483	mg/L	0.001921	0.1097	mg/L	0.00384	3.50%
B 249.677†	51.4	0.01342	mg/L	0.000485	0.02684	mg/L	0.000971	3.62%
Ba 233.527†	2731.9	0.7338	mg/L	0.00638	1.468	mg/L	0.0128	0.87%
Be 313.042†	2529.4	0.00300	mg/L	0.000037	0.00600	mg/L	0.000074	1.23%
Ca 317.933†	1102577.0	45.83	mg/L	0.045	91.67	mg/L	0.090	0.10%
Cd 228.802†	76.9	-0.00047	mg/L	0.000205	-0.00094	mg/L	0.000410	43.71%
Co 228.616†	13982.6	0.2869	mg/L	0.00153	0.5738	mg/L	0.00305	0.53%
Cr 267.716†	1369.1	0.1720	mg/L	0.00085	0.3439	mg/L	0.00171	0.50%
Cu 324.752†	56597.5	0.1944	mg/L	0.00036	0.3888	mg/L	0.00073	0.19%
Fe 273.955†	239053.4	227.6	mg/L	0.91	455.2	mg/L	1.82	0.40%
K 766.490†	11330.9	6.853	mg/L	0.0247	13.71	mg/L	0.049	0.36%
Mg 279.077†	66124.9	37.78	mg/L	0.025	75.56	mg/L	0.051	0.07%
Mn 257.610†	65743.6	2.281	mg/L	0.0050	4.563	mg/L	0.0101	0.22%
Mo 202.031†	24.3	0.00460	mg/L	0.000166	0.00920	mg/L	0.000332	3.61%
Na 589.592†	35950.9	5.387	mg/L	0.0038	10.77	mg/L	0.008	0.07%
Na 330.237†	99.5	5.453	mg/L	0.1466	10.91	mg/L	0.293	2.69%
Ni 231.604†	558.6	0.2663	mg/L	0.00190	0.5327	mg/L	0.00381	0.71%
Pb 220.353†	37.6	0.03399	mg/L	0.000057	0.06799	mg/L	0.000114	0.17%
Sb 206.836†	18.8	0.02302	mg/L	0.003960	0.04605	mg/L	0.007920	17.20%
Se 196.026†	-120.3	-0.06698	mg/L	0.004512	-0.1340	mg/L	0.00902	6.74%
Si 288.158†	9742.3	5.603	mg/L	0.0280	11.21	mg/L	0.056	0.50%
Sn 189.927†	-58.2	-0.00523	mg/L	0.000752	-0.01047	mg/L	0.001504	14.36%
Sr 421.552†	361633.3	0.4785	mg/L	0.00124	0.9570	mg/L	0.00248	0.26%
Ti 334.903†	309751.7	10.81	mg/L	0.018	21.61	mg/L	0.037	0.17%
Tl 190.801†	-12.0	-0.02080	mg/L	0.000962	-0.04160	mg/L	0.001924	4.63%
V 292.402†	213074.6	0.6162	mg/L	0.00253	1.232	mg/L	0.0051	0.41%
Zn 206.200†	555.6	0.4975	mg/L	0.00149	0.9950	mg/L	0.00297	0.30%

Sequence No.: 7
Sample ID: JU43 ADUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 27
Date Collected: 9/12/2006 2:28:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 ADUP SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1800872.7	98.76	%	0.758				0.77%
ScR 361.383	207327.5	103.5	%	0.56				0.54%
Ag 328.068†	-3009.6	0.00100	mg/L	0.000156	0.00200	mg/L	0.000311	15.52%
Al 308.215†	292065.0	200.2	mg/L	1.20	400.3	mg/L	2.40	0.60%
As 188.979†	82.3	0.02125	mg/L	0.001890	0.04251	mg/L	0.003779	8.89%
B 249.677†	53.4	0.01490	mg/L	0.001957	0.02979	mg/L	0.003914	13.14%
Ba 233.527†	3534.6	0.9540	mg/L	0.01134	1.908	mg/L	0.0227	1.19%
Be 313.042†	2492.1	0.00296	mg/L	0.000061	0.00593	mg/L	0.000123	2.07%
Ca 317.933†	945949.7	39.32	mg/L	0.212	78.65	mg/L	0.423	0.54%
Cd 228.802†	189.2	0.00247	mg/L	0.000103	0.00495	mg/L	0.000206	4.17%
Co 228.616†	5763.3	0.1081	mg/L	0.00143	0.2163	mg/L	0.00286	1.32%
Cr 267.716†	1719.6	0.2126	mg/L	0.00221	0.4252	mg/L	0.00442	1.04%
Cu 324.752†	92649.6	0.3068	mg/L	0.00116	0.6136	mg/L	0.00233	0.38%
Fe 273.955†	243428.0	231.8	mg/L	1.47	463.6	mg/L	2.95	0.64%
K 766.490†	10268.0	6.210	mg/L	0.0654	12.42	mg/L	0.131	1.05%
Mg 279.077†	68850.2	39.34	mg/L	0.230	78.68	mg/L	0.460	0.58%
Mn 257.610†	109813.8	3.812	mg/L	0.0235	7.623	mg/L	0.0469	0.62%
Mo 202.031†	8.2	0.00416	mg/L	0.000625	0.00833	mg/L	0.001250	15.01%
Na 589.592†	25880.9	3.878	mg/L	0.0333	7.757	mg/L	0.0667	0.86%
Na 330.237†	72.6	4.167	mg/L	0.1408	8.334	mg/L	0.2815	3.38%
Ni 231.604†	378.4	0.1805	mg/L	0.00169	0.3609	mg/L	0.00338	0.94%
Pb 220.353†	2395.7	0.2421	mg/L	0.00241	0.4842	mg/L	0.00483	1.00%
Sb 206.836†	18.0	0.02076	mg/L	0.002268	0.04151	mg/L	0.004535	10.93%
Se 196.026†	-116.5	-0.06671	mg/L	0.005199	-0.1334	mg/L	0.01040	7.79%
Si 288.158†	13652.9	7.852	mg/L	0.0482	15.70	mg/L	0.096	0.61%
Sn 189.927†	-23.0	-0.00001	mg/L	0.000166	-0.00002	mg/L	0.000332	>999.9%
Sr 421.552†	362038.6	0.4790	mg/L	0.00298	0.9581	mg/L	0.00596	0.62%
Ti 334.903†	276946.5	9.661	mg/L	0.0592	19.32	mg/L	0.118	0.61%
Tl 190.801†	-19.0	-0.02432	mg/L	0.003834	-0.04863	mg/L	0.007668	15.77%
V 292.402†	208380.7	0.6036	mg/L	0.00289	1.207	mg/L	0.0058	0.48%
Zn 206.200†	1299.1	1.171	mg/L	0.0151	2.341	mg/L	0.0303	1.29%

Sequence No.: 8
Sample ID: JU43 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 28
Date Collected: 9/12/2006 2:35:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 A SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JU43 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1800424.9	98.74	%	0.410				0.42%
ScR 361.383	204251.9	101.9	%	0.15				0.15%
Ag 328.068†	-3029.5	0.00047	mg/L	0.000337	0.00094	mg/L	0.000674	71.78%
Al 308.215†	276169.2	189.3	mg/L	0.32	378.5	mg/L	0.63	0.17%
As 188.979†	82.9	0.02453	mg/L	0.004495	0.04907	mg/L	0.008990	18.32%
B 249.677†	45.9	0.01259	mg/L	0.003263	0.02518	mg/L	0.006527	25.92%
Ba 233.527†	3365.4	0.9084	mg/L	0.00506	1.817	mg/L	0.0101	0.56%
Be 313.042†	2436.1	0.00292	mg/L	0.000079	0.00584	mg/L	0.000159	2.72%
Ca 317.933†	894806.0	37.20	mg/L	0.067	74.39	mg/L	0.134	0.18%
Cd 228.802†	156.8	0.00175	mg/L	0.000114	0.00350	mg/L	0.000228	6.51%
Co 228.616†	5772.5	0.1095	mg/L	0.00093	0.2191	mg/L	0.00187	0.85%
Cr 267.716†	1662.1	0.2053	mg/L	0.00123	0.4106	mg/L	0.00246	0.60%
Cu 324.752†	85238.2	0.2828	mg/L	0.00087	0.5657	mg/L	0.00173	0.31%
Fe 273.955†	230790.5	219.7	mg/L	0.33	439.5	mg/L	0.66	0.15%
K 766.490†	9823.8	5.942	mg/L	0.0623	11.88	mg/L	0.125	1.05%
Mg 279.077†	65465.2	37.40	mg/L	0.097	74.81	mg/L	0.193	0.26%
Mn 257.610†	104559.0	3.629	mg/L	0.0069	7.259	mg/L	0.0139	0.19%
Mo 202.031†	21.2	0.00503	mg/L	0.000526	0.01006	mg/L	0.001053	10.46%
Na 589.592†	23699.7	3.551	mg/L	0.0185	7.103	mg/L	0.0369	0.52%
Na 330.237†	57.3	3.577	mg/L	0.2326	7.154	mg/L	0.4651	6.50%
Ni 231.604†	349.9	0.1669	mg/L	0.00099	0.3337	mg/L	0.00198	0.59%
Pb 220.353†	2196.1	0.2231	mg/L	0.00194	0.4461	mg/L	0.00389	0.87%
Sb 206.836†	16.6	0.01919	mg/L	0.000941	0.03838	mg/L	0.001883	4.91%
Se 196.026†	-104.7	-0.06020	mg/L	0.007203	-0.1204	mg/L	0.01441	11.96%
Si 288.158†	3461.7	1.991	mg/L	0.0071	3.982	mg/L	0.0141	0.36%
Sn 189.927†	-16.4	0.00095	mg/L	0.000982	0.00190	mg/L	0.001963	103.40%
Sr 421.552†	346860.0	0.4589	mg/L	0.00056	0.9179	mg/L	0.00112	0.12%
Ti 334.903†	258788.2	9.028	mg/L	0.0099	18.06	mg/L	0.020	0.11%
Tl 190.801†	-18.3	-0.02321	mg/L	0.001288	-0.04642	mg/L	0.002577	5.55%
V 292.402†	199004.2	0.5765	mg/L	0.00178	1.153	mg/L	0.0036	0.31%
Zn 206.200†	1068.6	0.9621	mg/L	0.00216	1.924	mg/L	0.0043	0.22%

Sequence No.: 9
Sample ID: JU43 ASPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 9/12/2006 2:41:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 ASPK SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1799209.8	98.67	%	0.316				0.32%
ScR 361.383	204636.5	102.1	%	0.39				0.38%
Ag 328.068†	169851.8	0.4717	mg/L	0.00089	0.9435	mg/L	0.00177	0.19%
Al 308.215†	301827.2	206.8	mg/L	0.85	413.7	mg/L	1.70	0.41%
As 188.979†	2265.3	1.788	mg/L	0.0081	3.577	mg/L	0.0162	0.45%
B 249.677†	45.8	0.01338	mg/L	0.001796	0.02677	mg/L	0.003592	13.42%
Ba 233.527†	9926.8	2.710	mg/L	0.0153	5.421	mg/L	0.0306	0.56%
Be 313.042†	304358.6	0.4764	mg/L	0.00207	0.9528	mg/L	0.00414	0.44%
Ca 317.933†	1214281.2	50.48	mg/L	0.231	101.0	mg/L	0.46	0.46%
Cd 228.802†	18158.3	0.4689	mg/L	0.00151	0.9379	mg/L	0.00302	0.32%
Co 228.616†	25131.8	0.5360	mg/L	0.00119	1.072	mg/L	0.0024	0.22%
Cr 267.716†	5519.3	0.6575	mg/L	0.00352	1.315	mg/L	0.0070	0.54%
Cu 324.752†	240783.5	0.7655	mg/L	0.00135	1.531	mg/L	0.0027	0.18%
Fe 273.955†	234978.3	223.7	mg/L	1.40	447.5	mg/L	2.80	0.63%
K 766.490†	25316.5	15.31	mg/L	0.106	30.62	mg/L	0.212	0.69%
Mg 279.077†	81687.7	46.71	mg/L	0.195	93.42	mg/L	0.389	0.42%
Mn 257.610†	116114.9	4.031	mg/L	0.0190	8.061	mg/L	0.0380	0.47%
Mo 202.031†	25.0	0.00551	mg/L	0.000624	0.01102	mg/L	0.001249	11.33%
Na 589.592†	100789.1	15.10	mg/L	0.043	30.21	mg/L	0.086	0.28%
Na 330.237†	415.3	15.16	mg/L	0.173	30.33	mg/L	0.347	1.14%
Ni 231.604†	1314.7	0.6269	mg/L	0.00610	1.254	mg/L	0.0122	0.97%
Pb 220.353†	23970.2	2.075	mg/L	0.0064	4.151	mg/L	0.0127	0.31%
Sb 206.836†	31.0	0.02456	mg/L	0.001263	0.04911	mg/L	0.002526	5.14%
Se 196.026†	3231.7	1.726	mg/L	0.0046	3.452	mg/L	0.0092	0.27%
Si 288.158†	2894.2	1.666	mg/L	0.0070	3.331	mg/L	0.0141	0.42%
Sn 189.927†	-27.7	0.00116	mg/L	0.001216	0.00232	mg/L	0.002432	104.75%
Sr 421.552†	741575.2	0.9812	mg/L	0.00396	1.962	mg/L	0.0079	0.40%
Ti 334.903†	263064.0	9.177	mg/L	0.0408	18.35	mg/L	0.082	0.44%
Tl 190.801†	2376.6	1.737	mg/L	0.0052	3.474	mg/L	0.0103	0.30%
V 292.402†	357992.5	1.042	mg/L	0.0029	2.084	mg/L	0.0058	0.28%
Zn 206.200†	1607.1	1.450	mg/L	0.0067	2.899	mg/L	0.0133	0.46%

Sequence No.: 10
Sample ID: JU43 MB1SPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 9/12/2006 2:47:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 MB1SPK SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1762503.8	96.66	%	0.506				0.52%
ScR 361.383	199425.2	99.52	%	1.015				1.02%
Ag 328.068†	188323.1	0.5133	mg/L	0.00171	1.027	mg/L	0.0034	0.33%
Al 308.215†	3058.1	2.087	mg/L	0.0292	4.174	mg/L	0.0583	1.40%
As 188.979†	2529.3	2.047	mg/L	0.0082	4.093	mg/L	0.0165	0.40%
B 249.677†	4.5	0.00245	mg/L	0.002224	0.00491	mg/L	0.004448	90.63%
Ba 233.527†	7176.9	1.971	mg/L	0.0304	3.942	mg/L	0.0609	1.54%
Be 313.042†	334000.7	0.5237	mg/L	0.00443	1.047	mg/L	0.0089	0.85%
Ca 317.933†	249331.7	10.36	mg/L	0.077	20.73	mg/L	0.155	0.75%
Cd 228.802†	19878.0	0.5158	mg/L	0.00196	1.032	mg/L	0.0039	0.38%
Co 228.616†	22553.1	0.4969	mg/L	0.00173	0.9938	mg/L	0.00346	0.35%
Cr 267.716†	4325.5	0.5069	mg/L	0.00740	1.014	mg/L	0.0148	1.46%
Cu 324.752†	166640.9	0.5170	mg/L	0.00187	1.034	mg/L	0.0037	0.36%
Fe 273.955†	2258.9	2.150	mg/L	0.0263	4.299	mg/L	0.0527	1.23%
K 766.490†	16609.5	10.05	mg/L	0.132	20.09	mg/L	0.265	1.32%
Mg 279.077†	18152.2	10.42	mg/L	0.062	20.83	mg/L	0.125	0.60%
Mn 257.610†	14456.5	0.5023	mg/L	0.00318	1.005	mg/L	0.0064	0.63%
Mo 202.031†	26.6	0.00197	mg/L	0.000206	0.00393	mg/L	0.000412	10.47%
Na 589.592†	68037.9	10.20	mg/L	0.095	20.39	mg/L	0.189	0.93%
Na 330.237†	334.9	10.81	mg/L	0.492	21.62	mg/L	0.984	4.55%
Ni 231.604†	1076.1	0.5131	mg/L	0.00708	1.026	mg/L	0.0142	1.38%
Pb 220.353†	24208.0	2.056	mg/L	0.0091	4.112	mg/L	0.0183	0.44%
Sb 206.836†	9.5	0.00087	mg/L	0.001730	0.00175	mg/L	0.003460	198.11%
Se 196.026†	3864.3	2.069	mg/L	0.0088	4.137	mg/L	0.0176	0.43%
Si 288.158†	13.4	0.00876	mg/L	0.001037	0.01751	mg/L	0.002074	11.84%
Sn 189.927†	-26.5	-0.00299	mg/L	0.000460	-0.00597	mg/L	0.000920	15.41%
Sr 421.552†	386449.1	0.5113	mg/L	0.00368	1.023	mg/L	0.0074	0.72%
Ti 334.903†	75.8	0.00253	mg/L	0.000596	0.00506	mg/L	0.001191	23.52%
Tl 190.801†	2832.1	2.082	mg/L	0.0076	4.164	mg/L	0.0152	0.37%
V 292.402†	182026.1	0.5331	mg/L	0.00264	1.066	mg/L	0.0053	0.50%
Zn 206.200†	565.6	0.5121	mg/L	0.00527	1.024	mg/L	0.0105	1.03%

Sequence No.: 11
Sample ID: CV 4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 2:53:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1720879.3	94.37	%	0.775				0.82%
ScR 361.383	195738.7	97.68	%	0.358				0.37%
Ag 328.068†	369282.2	1.006	mg/L	0.0121	1.006	mg/L	0.0121	1.20%
Al 308.215†	2932.9	1.972	mg/L	0.0049	1.972	mg/L	0.0049	0.25%
As 188.979†	2506.1	2.025	mg/L	0.0133	2.025	mg/L	0.0133	0.66%
B 249.677†	2916.0	0.9760	mg/L	0.00301	0.9760	mg/L	0.00301	0.31%
Ba 233.527†	3497.9	0.9604	mg/L	0.00416	0.9604	mg/L	0.00416	0.43%
Be 313.042†	634515.1	0.9949	mg/L	0.00159	0.9949	mg/L	0.00159	0.16%
Ca 317.933†	49189.5	2.045	mg/L	0.0031	2.045	mg/L	0.0031	0.15%
Cd 228.802†	40111.2	1.044	mg/L	0.0102	1.044	mg/L	0.0102	0.98%
Co 228.616†	45457.4	1.001	mg/L	0.0127	1.001	mg/L	0.0127	1.27%
Cr 267.716†	8185.6	0.9615	mg/L	0.00239	0.9615	mg/L	0.00239	0.25%
Cu 324.752†	337862.2	1.047	mg/L	0.0117	1.047	mg/L	0.0117	1.12%
Fe 273.955†	2126.4	2.022	mg/L	0.0084	2.022	mg/L	0.0084	0.41%
K 766.490†	32067.9	19.40	mg/L	0.056	19.40	mg/L	0.056	0.29%
Mg 279.077†	3457.8	1.988	mg/L	0.0073	1.988	mg/L	0.0073	0.37%
Mn 257.610†	27155.1	0.9436	mg/L	0.00334	0.9436	mg/L	0.00334	0.35%
Mo 202.031†	12677.8	1.033	mg/L	0.0058	1.033	mg/L	0.0058	0.56%
Na 589.592†	339596.8	50.89	mg/L	0.190	50.89	mg/L	0.190	0.37%
Na 330.237†	1519.4	50.04	mg/L	0.057	50.04	mg/L	0.057	0.11%
Ni 231.604†	2087.8	0.9967	mg/L	0.00391	0.9967	mg/L	0.00391	0.39%
Pb 220.353†	23993.9	2.039	mg/L	0.0268	2.039	mg/L	0.0268	1.31%
Sb 206.836†	2848.4	2.154	mg/L	0.0178	2.154	mg/L	0.0178	0.83%
Se 196.026†	3799.6	2.033	mg/L	0.0227	2.033	mg/L	0.0227	1.12%
Si 288.158†	3270.2	1.883	mg/L	0.0118	1.883	mg/L	0.0118	0.63%
Sn 189.927†	5706.8	1.007	mg/L	0.0063	1.007	mg/L	0.0063	0.62%
Sr 421.552†	755605.8	0.9998	mg/L	0.00266	0.9998	mg/L	0.00266	0.27%
Ti 334.903†	29353.0	1.023	mg/L	0.0038	1.023	mg/L	0.0038	0.37%
Tl 190.801†	2732.8	2.009	mg/L	0.0168	2.009	mg/L	0.0168	0.84%
V 292.402†	354040.2	1.037	mg/L	0.0123	1.037	mg/L	0.0123	1.18%
Zn 206.200†	1109.0	1.003	mg/L	0.0052	1.003	mg/L	0.0052	0.51%

Sequence No.: 12
Sample ID: CB4
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 3:00:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
ScA 357.253	1778909.5	97.56	%	0.745				0.76%
ScR 361.383	198383.2	99.00	%	0.215				0.22%
Ag 328.068†	-26.1	-0.00007	mg/L	0.000182	-0.00007	mg/L	0.000182	255.28%
Al 308.215†	23.3	0.01596	mg/L	0.006679	0.01596	mg/L	0.006679	41.85%
As 188.979†	-0.3	-0.00022	mg/L	0.001496	-0.00022	mg/L	0.001496	694.54%
B 249.677†	12.7	0.00422	mg/L	0.002484	0.00422	mg/L	0.002484	58.81%
Ba 233.527†	-0.2	-0.00004	mg/L	0.000548	-0.00004	mg/L	0.000548	>999.9%
Be 313.042†	8.0	0.00001	mg/L	0.000012	0.00001	mg/L	0.000012	96.51%
Ca 317.933†	13.5	0.00056	mg/L	0.001894	0.00056	mg/L	0.001894	337.78%
Cd 228.802†	-1.0	-0.00003	mg/L	0.000099	-0.00003	mg/L	0.000099	379.59%
Co 228.616†	5.5	0.00012	mg/L	0.000104	0.00012	mg/L	0.000104	85.71%
Cr 267.716†	3.8	0.00044	mg/L	0.000472	0.00044	mg/L	0.000472	106.14%
Cu 324.752†	85.9	0.00027	mg/L	0.000105	0.00027	mg/L	0.000105	39.35%
Fe 273.955†	0.3	0.00027	mg/L	0.001498	0.00027	mg/L	0.001498	562.97%
K 766.490†	-37.5	-0.02266	mg/L	0.023938	-0.02266	mg/L	0.023938	105.62%
Mg 279.077†	-11.1	-0.00637	mg/L	0.001768	-0.00637	mg/L	0.001768	27.76%
Mn 257.610†	-4.8	-0.00017	mg/L	0.000062	-0.00017	mg/L	0.000062	37.37%
Mo 202.031†	8.7	0.00071	mg/L	0.000312	0.00071	mg/L	0.000312	43.80%
Na 589.592†	-2424.7	-0.3633	mg/L	0.00299	-0.3633	mg/L	0.00299	0.82%
Na 330.237†	13.1	0.4307	mg/L	0.46062	0.4307	mg/L	0.46062	106.96%
Ni 231.604†	0.2	0.00012	mg/L	0.002049	0.00012	mg/L	0.002049	>999.9%
Pb 220.353†	1.7	0.00015	mg/L	0.000745	0.00015	mg/L	0.000745	513.12%
Sb 206.836†	-3.7	-0.00281	mg/L	0.002804	-0.00281	mg/L	0.002804	99.96%
Se 196.026†	-5.2	-0.00277	mg/L	0.002084	-0.00277	mg/L	0.002084	75.29%
Si 288.158†	10.1	0.00583	mg/L	0.002435	0.00583	mg/L	0.002435	41.76%
Sn 189.927†	2.9	0.00051	mg/L	0.000148	0.00051	mg/L	0.000148	29.35%
Sr 421.552†	25.9	0.00003	mg/L	0.000060	0.00003	mg/L	0.000060	176.32%
Ti 334.903†	-4.7	-0.00017	mg/L	0.000387	-0.00017	mg/L	0.000387	233.73%
Tl 190.801†	3.2	0.00233	mg/L	0.001487	0.00233	mg/L	0.001487	63.87%
V 292.402†	10.4	0.00003	mg/L	0.000082	0.00003	mg/L	0.000082	242.62%
Zn 206.200†	-3.1	-0.00276	mg/L	0.001992	-0.00276	mg/L	0.001992	72.09%

Sequence No.: 13
Sample ID: JT86 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 9/12/2006 3:06:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 MB1 SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JT86 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2550207.7	139.9	%	0.62				0.44%
ScR 361.383	204947.8	152.2	%	30.33				19.93%
Ag 328.068†	-409.5	-0.00111	mg/L	0.000074	-0.00223	mg/L	0.000147	6.61%
Al 308.215†	3.7	0.00244	mg/L	0.002421	0.00487	mg/L	0.004841	99.38%
As 188.979†	-30.4	-0.02463	mg/L	0.002168	-0.04926	mg/L	0.004336	8.80%
B 249.677†	13.0	0.00432	mg/L	0.000339	0.00865	mg/L	0.000678	7.84%
Ba 233.527†	-26.0	-0.00714	mg/L	0.000785	-0.01427	mg/L	0.001570	11.00%
Be 313.042†	-618.7	-0.00097	mg/L	0.000081	-0.00195	mg/L	0.000163	8.35%
Ca 317.933†	-250.5	-0.01041	mg/L	0.000740	-0.02083	mg/L	0.001480	7.11%
Cd 228.802†	-80.5	-0.00207	mg/L	0.000061	-0.00413	mg/L	0.000123	2.98%
Co 228.616†	-49.4	-0.00110	mg/L	0.000011	-0.00219	mg/L	0.000021	0.97%
Cr 267.716†	-39.4	-0.00464	mg/L	0.000332	-0.00928	mg/L	0.000664	7.15%
Cu 324.752†	-2299.4	-0.00713	mg/L	0.000042	-0.01427	mg/L	0.000083	0.58%
Fe 273.955†	29.7	0.02827	mg/L	0.000974	0.05655	mg/L	0.001948	3.45%
K 766.490†	-1807.8	-1.093	mg/L	0.0996	-2.187	mg/L	0.1992	9.11%
Mg 279.077†	102.3	0.05870	mg/L	0.005094	0.1174	mg/L	0.01019	8.68%
Mn 257.610†	-34.3	-0.00119	mg/L	0.000109	-0.00239	mg/L	0.000218	9.11%
Mo 202.031†	66.6	0.00543	mg/L	0.000043	0.01086	mg/L	0.000086	0.80%
Na 589.592†	-5448.4	-0.8164	mg/L	0.00935	-1.633	mg/L	0.0187	1.15%
Na 330.237†	135.1	4.453	mg/L	0.1081	8.906	mg/L	0.2163	2.43%
Ni 231.604†	-2.7	-0.00129	mg/L	0.000776	-0.00258	mg/L	0.001552	60.13%
Pb 220.353†	-113.3	-0.00962	mg/L	0.000054	-0.01924	mg/L	0.000109	0.57%
Sb 206.836†	-11.2	-0.00842	mg/L	0.000538	-0.01685	mg/L	0.001076	6.39%
Se 196.026†	46.9	0.02512	mg/L	0.000353	0.05024	mg/L	0.000707	1.41%
Si 288.158†	30.9	0.01778	mg/L	0.002281	0.03555	mg/L	0.004561	12.83%
Sn 189.927†	-21.0	-0.00371	mg/L	0.000128	-0.00742	mg/L	0.000257	3.46%
Sr 421.552†	-449.2	-0.00059	mg/L	0.000044	-0.00119	mg/L	0.000088	7.38%
Ti 334.903†	172.2	0.00600	mg/L	0.000421	0.01200	mg/L	0.000843	7.02%
Tl 190.801†	5.7	0.00421	mg/L	0.000725	0.00842	mg/L	0.001450	17.23%
V 292.402†	314.9	0.00088	mg/L	0.000047	0.00177	mg/L	0.000093	5.27%
Zn 206.200†	-0.3	-0.00028	mg/L	0.000946	-0.00057	mg/L	0.001892	332.59%

Sequence No.: 14
Sample ID: ~~JT86 A SWC~~ zzzzzz
Analyst: JLB
Initial Sample Wt:
Dilution: 2X 9/12/6 JLB

Autosampler Location: 32
Date Collected: 9/12/2006 3:13:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 A SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JT86 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2534395.8	139.0	%	6.68				4.81%
ScR 361.383	371700.4	185.5	%	2.89				1.56%
Ag 328.068†	-444.3	-0.00121	mg/L	0.000090	-0.00242	mg/L	0.000179	7.42%
Al 308.215†	10.8	0.00726	mg/L	0.004005	0.01452	mg/L	0.008009	55.15%
As 188.979†	-29.4	-0.02381	mg/L	0.000652	-0.04762	mg/L	0.001304	2.74%
B 249.677†	16.0	0.00531	mg/L	0.000654	0.01063	mg/L	0.001307	12.30%
Ba 233.527†	-28.3	-0.00779	mg/L	0.000135	-0.01557	mg/L	0.000271	1.74%
Be 313.042†	-699.2	-0.00110	mg/L	0.000032	-0.00220	mg/L	0.000065	2.95%
Ca 317.933†	-271.3	-0.01128	mg/L	0.000550	-0.02256	mg/L	0.001099	4.87%
Cd 228.802†	-80.6	-0.00207	mg/L	0.000139	-0.00414	mg/L	0.000278	6.71%
Co 228.616†	-49.5	-0.00110	mg/L	0.000025	-0.00220	mg/L	0.000049	2.24%
Cr 267.716†	-40.5	-0.00477	mg/L	0.000318	-0.00954	mg/L	0.000636	6.67%
Cu 324.752†	-2293.0	-0.00711	mg/L	0.000060	-0.01423	mg/L	0.000119	0.84%
Fe 273.955†	31.5	0.03001	mg/L	0.000782	0.06003	mg/L	0.001564	2.61%
K 766.490†	-1979.4	-1.197	mg/L	0.0114	-2.394	mg/L	0.0227	0.95%
Mg 279.077†	113.0	0.06485	mg/L	0.001564	0.1297	mg/L	0.00313	2.41%
Mn 257.610†	-35.9	-0.00125	mg/L	0.000073	-0.00250	mg/L	0.000146	5.86%
Mo 202.031†	65.4	0.00533	mg/L	0.000107	0.01065	mg/L	0.000215	2.01%
Na 589.592†	-5518.7	-0.8270	mg/L	0.00519	-1.654	mg/L	0.0104	0.63%
Na 330.237†	143.7	4.735	mg/L	0.1070	9.469	mg/L	0.2139	2.26%
Ni 231.604†	-3.2	-0.00152	mg/L	0.000344	-0.00304	mg/L	0.000688	22.68%
Pb 220.353†	-117.1	-0.00994	mg/L	0.000367	-0.01987	mg/L	0.000733	3.69%
Sb 206.836†	-10.7	-0.00805	mg/L	0.001205	-0.01610	mg/L	0.002410	14.97%
Se 196.026†	46.5	0.02489	mg/L	0.000626	0.04979	mg/L	0.001252	2.52%
Si 288.158†	33.4	0.01922	mg/L	0.002743	0.03844	mg/L	0.005486	14.27%
Sn 189.927†	-21.0	-0.00371	mg/L	0.000347	-0.00742	mg/L	0.000694	9.35%
Sr 421.552†	-492.8	-0.00065	mg/L	0.000015	-0.00130	mg/L	0.000031	2.36%
Ti 334.903†	181.7	0.00633	mg/L	0.000203	0.01267	mg/L	0.000407	3.21%
Tl 190.801†	5.7	0.00424	mg/L	0.000607	0.00847	mg/L	0.001214	14.32%
V 292.402†	323.8	0.00091	mg/L	0.000046	0.00182	mg/L	0.000092	5.06%
Zn 206.200†	-0.3	-0.00027	mg/L	0.000311	-0.00055	mg/L	0.000622	113.04%

Sequence No.: 15
Sample ID: ~~JT86 C SWC~~ zzzzzz
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

9/12/6 JLB

Autosampler Location: 33
Date Collected: 9/12/2006 3:19:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 C SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JT86 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2784152.0	152.7	%	15.29				10.01%
ScR 361.383	310378.8	154.9	%	2.21				1.43%
Ag 328.068†	-415.1	-0.00113	mg/L	0.000100	-0.00226	mg/L	0.000199	8.81%
Al 308.215†	6.4	0.00425	mg/L	0.002272	0.00849	mg/L	0.004543	53.50%
As 188.979†	-31.7	-0.02567	mg/L	0.000312	-0.05134	mg/L	0.000623	1.21%
B 249.677†	16.9	0.00562	mg/L	0.001112	0.01125	mg/L	0.002225	19.78%
Ba 233.527†	-27.5	-0.00756	mg/L	0.000196	-0.01512	mg/L	0.000393	2.60%
Be 313.042†	-625.8	-0.00098	mg/L	0.000007	-0.00197	mg/L	0.000014	0.71%
Ca 317.933†	-265.6	-0.01104	mg/L	0.000144	-0.02209	mg/L	0.000289	1.31%
Cd 228.802†	-80.1	-0.00205	mg/L	0.000426	-0.00411	mg/L	0.000852	20.75%
Co 228.616†	-50.2	-0.00111	mg/L	0.000015	-0.00223	mg/L	0.000030	1.34%
Cr 267.716†	-42.8	-0.00504	mg/L	0.000328	-0.01008	mg/L	0.000657	6.52%
Cu 324.752†	-2339.5	-0.00726	mg/L	0.000214	-0.01452	mg/L	0.000427	2.94%
Fe 273.955†	29.7	0.02828	mg/L	0.001334	0.05656	mg/L	0.002668	4.72%
K 766.490†	-1854.9	-1.122	mg/L	0.0119	-2.244	mg/L	0.0238	1.06%
Mg 279.077†	100.8	0.05785	mg/L	0.002202	0.1157	mg/L	0.00440	3.81%
Mn 257.610†	-33.5	-0.00117	mg/L	0.000084	-0.00234	mg/L	0.000168	7.20%
Mo 202.031†	67.2	0.00547	mg/L	0.000099	0.01095	mg/L	0.000199	1.81%
Na 589.592†	-5521.7	-0.8274	mg/L	0.00298	-1.655	mg/L	0.0060	0.36%
Na 330.237†	135.0	4.451	mg/L	0.1829	8.901	mg/L	0.3657	4.11%
Ni 231.604†	-2.6	-0.00124	mg/L	0.000532	-0.00249	mg/L	0.001065	42.77%
Pb 220.353†	-118.8	-0.01008	mg/L	0.000463	-0.02016	mg/L	0.000927	4.60%
Sb 206.836†	-12.0	-0.00903	mg/L	0.000318	-0.01806	mg/L	0.000637	3.53%
Se 196.026†	46.5	0.02491	mg/L	0.000972	0.04981	mg/L	0.001944	3.90%
Si 288.158†	28.4	0.01629	mg/L	0.001465	0.03259	mg/L	0.002930	8.99%
Sn 189.927†	-22.5	-0.00398	mg/L	0.000175	-0.00797	mg/L	0.000349	4.38%
Sr 421.552†	-454.0	-0.00060	mg/L	0.000009	-0.00120	mg/L	0.000018	1.53%
Ti 334.903†	179.1	0.00624	mg/L	0.000071	0.01249	mg/L	0.000142	1.13%
Tl 190.801†	6.5	0.00483	mg/L	0.000263	0.00966	mg/L	0.000525	5.44%
V 292.402†	318.8	0.00089	mg/L	0.000053	0.00179	mg/L	0.000107	5.97%
Zn 206.200†	-1.3	-0.00119	mg/L	0.000376	-0.00239	mg/L	0.000753	31.55%

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Analysis Begun

Start Time: 9/12/2006 3:32:31 PM
Plasma On Time: 9/12/2006 8:44:48 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0912A.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 25
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 9/12/2006 3:32:31 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1757327.6	3761.21	0.21%	96.37	%
ScR 361.383	195613.0	1010.48	0.52%	97.62	%
Ag 328.068†	271.6	29.19	10.75%	[0.00]	mg/L
Al 308.215†	-30.1	11.58	38.54%	[0.00]	mg/L
As 188.979†	38.4	1.53	3.98%	[0.00]	mg/L
B 249.677†	-20.3	1.31	6.45%	[0.00]	mg/L
Ba 233.527†	33.5	2.23	6.64%	[0.00]	mg/L
Be 313.042†	961.9	6.45	0.67%	[0.00]	mg/L
Ca 317.933†	370.4	21.80	5.89%	[0.00]	mg/L
Cd 228.802†	177.4	5.08	2.86%	[0.00]	mg/L
Co 228.616†	53.1	8.45	15.90%	[0.00]	mg/L
Cr 267.716†	46.1	7.68	16.67%	[0.00]	mg/L
Cu 324.752†	3358.4	50.64	1.51%	[0.00]	mg/L
Fe 273.955†	-43.4	3.17	7.30%	[0.00]	mg/L
K 766.490†	2945.0	18.71	0.64%	[0.00]	mg/L
Mg 279.077†	-144.9	14.47	9.98%	[0.00]	mg/L
Mn 257.610†	44.3	2.74	6.20%	[0.00]	mg/L
Mo 202.031†	-79.3	7.58	9.56%	[0.00]	mg/L
Na 589.592†	3687.1	28.29	0.77%	[0.00]	mg/L
Na 330.237†	-185.1	15.66	8.46%	[0.00]	mg/L
Ni 231.604†	4.6	4.96	108.21%	[0.00]	mg/L
Pb 220.353†	157.0	1.91	1.21%	[0.00]	mg/L
Sb 206.836†	11.9	0.81	6.85%	[0.00]	mg/L
Se 196.026†	-80.0	3.39	4.24%	[0.00]	mg/L
Si 288.158†	-42.1	2.10	4.98%	[0.00]	mg/L
Sn 189.927†	20.5	4.85	23.68%	[0.00]	mg/L
Sr 421.552†	662.5	43.37	6.55%	[0.00]	mg/L
Ti 334.903†	-198.2	51.06	25.76%	[0.00]	mg/L
Tl 190.801†	-12.5	3.55	28.38%	[0.00]	mg/L
V 292.402†	-366.3	66.33	18.11%	[0.00]	mg/L
Zn 206.200†	-2.1	2.31	109.29%	[0.00]	mg/L

Analysis Begun

Start Time: 9/12/2006 3:37:14 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 9/12/2006 8:44:48 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\0912A.sif
Batch ID:
Results Data Set: PE060912
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: CV
Analyst: JLB
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 9/12/2006 3:37:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1714169.4	94.00	%	0.275				0.29%
ScR 361.383	198735.7	99.18	%	0.692				0.70%
Ag 328.068†	370902.0	1.011	mg/L	0.0013	1.011	mg/L	0.0013	0.13%
Al 308.215†	2970.6	1.998	mg/L	0.0257	1.998	mg/L	0.0257	1.29%
As 188.979†	2493.3	2.014	mg/L	0.0134	2.014	mg/L	0.0134	0.67%
B 249.677†	2986.3	0.9995	mg/L	0.00986	0.9995	mg/L	0.00986	0.99%
Ba 233.527†	3626.0	0.9955	mg/L	0.00699	0.9955	mg/L	0.00699	0.70%
Be 313.042†	652375.8	1.023	mg/L	0.0030	1.023	mg/L	0.0030	0.29%
Ca 317.933†	50231.2	2.088	mg/L	0.0054	2.088	mg/L	0.0054	0.26%
Cd 228.802†	40199.0	1.046	mg/L	0.0014	1.046	mg/L	0.0014	0.14%
Co 228.616†	45658.4	1.005	mg/L	0.0020	1.005	mg/L	0.0020	0.20%
Cr 267.716†	8410.4	0.9879	mg/L	0.00656	0.9879	mg/L	0.00656	0.66%
Cu 324.752†	339165.4	1.051	mg/L	0.0030	1.051	mg/L	0.0030	0.28%
Fe 273.955†	2181.6	2.075	mg/L	0.0081	2.075	mg/L	0.0081	0.39%
K 766.490†	31862.8	19.27	mg/L	0.081	19.27	mg/L	0.081	0.42%
Mg 279.077†	3570.1	2.053	mg/L	0.0146	2.053	mg/L	0.0146	0.71%
Mn 257.610†	27983.7	0.9723	mg/L	0.00548	0.9723	mg/L	0.00548	0.56%
Mo 202.031†	12585.3	1.025	mg/L	0.0004	1.025	mg/L	0.0004	0.04%
Na 589.592†	340284.0	50.99	mg/L	0.248	50.99	mg/L	0.248	0.49%
Na 330.237†	1541.5	50.76	mg/L	0.213	50.76	mg/L	0.213	0.42%
Ni 231.604†	2165.1	1.034	mg/L	0.0081	1.034	mg/L	0.0081	0.79%
Pb 220.353†	24075.4	2.046	mg/L	0.0099	2.046	mg/L	0.0099	0.48%
Sb 206.836†	2839.6	2.147	mg/L	0.0086	2.147	mg/L	0.0086	0.40%
Se 196.026†	3781.4	2.024	mg/L	0.0107	2.024	mg/L	0.0107	0.53%
Si 288.158†	3321.6	1.912	mg/L	0.0093	1.912	mg/L	0.0093	0.49%
Sn 189.927†	5677.1	1.002	mg/L	0.0054	1.002	mg/L	0.0054	0.54%
Sr 421.552†	759605.9	1.005	mg/L	0.0037	1.005	mg/L	0.0037	0.36%
Ti 334.903†	29706.6	1.035	mg/L	0.0029	1.035	mg/L	0.0029	0.28%
Tl 190.801†	2717.6	1.997	mg/L	0.0077	1.997	mg/L	0.0077	0.39%
V 292.402†	354960.0	1.040	mg/L	0.0013	1.040	mg/L	0.0013	0.13%
Zn 206.200†	1159.9	1.049	mg/L	0.0073	1.049	mg/L	0.0073	0.70%

Sequence No.: 2
Sample ID: CB 5
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 3:43:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1773534.3	97.26	%	0.483				0.50%
ScR 361.383	202262.7	100.9	%	0.38				0.37%
Ag 328.068†	54.0	0.00015	mg/L	0.000023	0.00015	mg/L	0.000023	15.77%
Al 308.215†	-29.0	-0.01986	mg/L	0.015495	-0.01986	mg/L	0.015495	78.00%
As 188.979†	-2.5	-0.00204	mg/L	0.001381	-0.00204	mg/L	0.001381	67.73%
B 249.677†	9.2	0.00308	mg/L	0.001160	0.00308	mg/L	0.001160	37.67%
Ba 233.527†	2.3	0.00063	mg/L	0.000156	0.00063	mg/L	0.000156	24.73%
Be 313.042†	6.8	0.00001	mg/L	0.000062	0.00001	mg/L	0.000062	573.63%
Ca 317.933†	-23.2	-0.00096	mg/L	0.000726	-0.00096	mg/L	0.000726	75.26%
Cd 228.802†	4.9	0.00013	mg/L	0.000054	0.00013	mg/L	0.000054	41.07%
Co 228.616†	-5.4	-0.00012	mg/L	0.000257	-0.00012	mg/L	0.000257	216.67%
Cr 267.716†	7.2	0.00085	mg/L	0.000988	0.00085	mg/L	0.000988	116.70%
Cu 324.752†	10.9	0.00003	mg/L	0.000055	0.00003	mg/L	0.000055	162.87%
Fe 273.955†	2.0	0.00190	mg/L	0.001904	0.00190	mg/L	0.001904	100.33%
K 766.490†	-54.8	-0.03315	mg/L	0.010357	-0.03315	mg/L	0.010357	31.24%
Mg 279.077†	0.7	0.00043	mg/L	0.010018	0.00043	mg/L	0.010018	>999.9%
Mn 257.610†	-3.4	-0.00012	mg/L	0.000077	-0.00012	mg/L	0.000077	65.47%
Mo 202.031†	5.8	0.00048	mg/L	0.000212	0.00048	mg/L	0.000212	44.68%
Na 589.592†	-199.5	-0.02989	mg/L	0.002266	-0.02989	mg/L	0.002266	7.58%
Na 330.237†	-2.3	-0.07517	mg/L	0.604542	-0.07517	mg/L	0.604542	804.22%
Ni 231.604†	4.9	0.00234	mg/L	0.000903	0.00234	mg/L	0.000903	38.61%
Pb 220.353†	9.3	0.00079	mg/L	0.000558	0.00079	mg/L	0.000558	70.99%
Sb 206.836†	1.8	0.00138	mg/L	0.001499	0.00138	mg/L	0.001499	108.21%
Se 196.026†	1.2	0.00063	mg/L	0.002888	0.00063	mg/L	0.002888	459.59%
Si 288.158†	1.9	0.00107	mg/L	0.001473	0.00107	mg/L	0.001473	138.12%
Sn 189.927†	2.9	0.00051	mg/L	0.000176	0.00051	mg/L	0.000176	34.55%
Sr 421.552†	44.9	0.00006	mg/L	0.000009	0.00006	mg/L	0.000009	15.45%
Ti 334.903†	-30.6	-0.00107	mg/L	0.000829	-0.00107	mg/L	0.000829	77.72%
Tl 190.801†	5.0	0.00372	mg/L	0.002651	0.00372	mg/L	0.002651	71.25%
V 292.402†	-56.0	-0.00016	mg/L	0.000162	-0.00016	mg/L	0.000162	103.66%
Zn 206.200†	1.7	0.00156	mg/L	0.001363	0.00156	mg/L	0.001363	87.47%

Sequence No.: 3
Sample ID: JT86 MB1 SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

DEL

Autosampler Location: 31
Date Collected: 9/12/2006 3:49:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 MB1 SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JT86 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1798947.3	98.65	%	0.705				0.71%
ScR 361.383	201985.4	100.8	%	0.44				0.44%
Ag 328.068†	52.2	0.00014	mg/L	0.000041	0.00029	mg/L	0.000082	28.77%
Al 308.215†	132.0	0.09045	mg/L	0.012007	0.1809	mg/L	0.02401	13.28%
As 188.979†	0.8	0.00061	mg/L	0.003671	0.00122	mg/L	0.007343	601.63%
B 249.677†	7.6	0.00254	mg/L	0.001687	0.00509	mg/L	0.003375	66.32%
Ba 233.527†	10.1	0.00278	mg/L	0.000659	0.00555	mg/L	0.001317	23.73%
Be 313.042†	112.2	0.00018	mg/L	0.000014	0.00035	mg/L	0.000027	7.75%
Ca 317.933†	3796.9	0.1578	mg/L	0.00141	0.3157	mg/L	0.00283	0.90%
Cd 228.802†	8.3	0.00022	mg/L	0.000050	0.00043	mg/L	0.000100	23.16%
Co 228.616†	-5.3	-0.00012	mg/L	0.000185	-0.00025	mg/L	0.000370	150.43%
Cr 267.716†	7.3	0.00086	mg/L	0.000968	0.00172	mg/L	0.001936	112.51%
Cu 324.752†	104.3	0.00032	mg/L	0.000018	0.00065	mg/L	0.000035	5.49%
Fe 273.955†	11.9	0.01135	mg/L	0.001726	0.02270	mg/L	0.003452	15.21%
K 766.490†	-115.0	-0.06954	mg/L	0.039874	-0.1391	mg/L	0.07975	57.34%
Mg 279.077†	36.8	0.02112	mg/L	0.010457	0.04224	mg/L	0.020915	49.51%
Mn 257.610†	2.4	0.00008	mg/L	0.000066	0.00016	mg/L	0.000132	80.67%
Mo 202.031†	3.2	0.00026	mg/L	0.000427	0.00053	mg/L	0.000854	161.98%
Na 589.592†	-178.8	-0.02680	mg/L	0.007148	-0.05359	mg/L	0.014295	26.67%
Na 330.237†	4.6	0.1460	mg/L	0.46689	0.2920	mg/L	0.93378	319.77%
Ni 231.604†	-2.2	-0.00104	mg/L	0.000395	-0.00207	mg/L	0.000790	38.11%
Pb 220.353†	7.8	0.00068	mg/L	0.000111	0.00137	mg/L	0.000223	16.28%
Sb 206.836†	4.3	0.00322	mg/L	0.002209	0.00645	mg/L	0.004418	68.52%
Se 196.026†	2.1	0.00115	mg/L	0.001553	0.00229	mg/L	0.003105	135.59%
Si 288.158†	9.8	0.00564	mg/L	0.004043	0.01127	mg/L	0.008087	71.72%
Sn 189.927†	1.9	0.00037	mg/L	0.001141	0.00075	mg/L	0.002281	305.81%
Sr 421.552†	374.1	0.00050	mg/L	0.000035	0.00099	mg/L	0.000070	7.05%
Ti 334.903†	101.9	0.00356	mg/L	0.001166	0.00711	mg/L	0.002333	32.80%
Tl 190.801†	2.4	0.00178	mg/L	0.000561	0.00355	mg/L	0.001123	31.60%
V 292.402†	61.7	0.00018	mg/L	0.000106	0.00037	mg/L	0.000212	57.73%
Zn 206.200†	28.7	0.02602	mg/L	0.001404	0.05204	mg/L	0.002807	5.39%

Sequence No.: 4
Sample ID: JT86 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 9/12/2006 3:56:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 A SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JT86 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1751466.0	96.05	%	0.303				0.32%
ScR 361.383	199814.0	99.72	%	0.453				0.45%
Ag 328.068†	-213.3	0.00178	mg/L	0.000199	0.00357	mg/L	0.000398	11.14%
Al 308.215†	54538.2	37.37	mg/L	0.051	74.75	mg/L	0.102	0.14%
As 188.979†	33.7	0.01533	mg/L	0.002354	0.03066	mg/L	0.004708	15.36%
B 249.677†	58.2	0.01888	mg/L	0.002215	0.03775	mg/L	0.004430	11.73%
Ba 233.527†	11607.3	3.184	mg/L	0.0113	6.368	mg/L	0.0226	0.35%
Be 313.042†	565.7	0.00068	mg/L	0.000029	0.00136	mg/L	0.000059	4.31%
Ca 317.933†	720471.0	29.95	mg/L	0.024	59.90	mg/L	0.047	0.08%
Cd 228.802†	77.0	0.00121	mg/L	0.000192	0.00242	mg/L	0.000384	15.83%
Co 228.616†	1364.7	0.02426	mg/L	0.000049	0.04853	mg/L	0.000097	0.20%
Cr 267.716†	930.0	0.1109	mg/L	0.00119	0.2218	mg/L	0.00238	1.07%
Cu 324.752†	56665.9	0.1809	mg/L	0.00128	0.3618	mg/L	0.00257	0.71%
Fe 273.955†	65042.5	61.93	mg/L	0.095	123.9	mg/L	0.19	0.15%
K 766.490†	4393.2	2.657	mg/L	0.0365	5.314	mg/L	0.0730	1.37%
Mg 279.077†	29848.3	17.08	mg/L	0.040	34.17	mg/L	0.080	0.23%
Mn 257.610†	44194.8	1.534	mg/L	0.0008	3.068	mg/L	0.0016	0.05%
Mo 202.031†	66.1	0.00580	mg/L	0.000166	0.01161	mg/L	0.000332	2.86%
Na 589.592†	10403.6	1.559	mg/L	0.0077	3.118	mg/L	0.0154	0.49%
Na 330.237†	47.8	1.745	mg/L	0.3821	3.490	mg/L	0.7641	21.89%
Ni 231.604†	203.7	0.09712	mg/L	0.001819	0.1942	mg/L	0.00364	1.87%
Pb 220.353†	1531.7	0.1373	mg/L	0.00041	0.2746	mg/L	0.00082	0.30%
Sb 206.836†	13.1	0.01067	mg/L	0.004866	0.02135	mg/L	0.009732	45.59%
Se 196.026†	-44.9	-0.02577	mg/L	0.003978	-0.05155	mg/L	0.007957	15.44%
Si 288.158†	3728.8	2.145	mg/L	0.0195	4.289	mg/L	0.0389	0.91%
Sn 189.927†	-26.1	-0.00020	mg/L	0.000517	-0.00041	mg/L	0.001035	255.45%
Sr 421.552†	161303.9	0.2134	mg/L	0.00001	0.4269	mg/L	0.00003	0.01%
Ti 334.903†	70431.8	2.457	mg/L	0.0036	4.914	mg/L	0.0071	0.15%
Tl 190.801†	-7.2	-0.00790	mg/L	0.001112	-0.01579	mg/L	0.002223	14.08%
V 292.402†	45996.8	0.1336	mg/L	0.00111	0.2673	mg/L	0.00221	0.83%
Zn 206.200†	771.4	0.6972	mg/L	0.00409	1.394	mg/L	0.0082	0.59%

Sequence No.: 5
Sample ID: JT86 C SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 9/12/2006 4:02:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 C SWC

Analyte	Back Pressure	Flow
All	185.0 kPa	0.50 L/min

Mean Data: JT86 C SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1730174.1	94.88	%	0.608				0.64%
ScR 361.383	207438.2	103.5	%	1.07				1.03%
Ag 328.068†	-3834.4	-0.00173	mg/L	0.000216	-0.00345	mg/L	0.000432	12.53%
Al 308.215†	220934.2	151.4	mg/L	0.32	302.8	mg/L	0.63	0.21%
As 188.979†	128.7	0.05761	mg/L	0.007682	0.1152	mg/L	0.01536	13.33%
B 249.677†	172.1	0.05450	mg/L	0.002315	0.1090	mg/L	0.00463	4.25%
Ba 233.527†	4539.7	1.231	mg/L	0.0188	2.462	mg/L	0.0376	1.53%
Be 313.042†	2792.1	0.00346	mg/L	0.000100	0.00693	mg/L	0.000199	2.87%
Ca 317.933†	1875231.7	77.95	mg/L	0.078	155.9	mg/L	0.16	0.10%
Cd 228.802†	141.5	0.00130	mg/L	0.000178	0.00261	mg/L	0.000355	13.63%
Co 228.616†	5176.9	0.09226	mg/L	0.000393	0.1845	mg/L	0.00079	0.43%
Cr 267.716†	2828.6	0.3373	mg/L	0.00434	0.6746	mg/L	0.00869	1.29%
Cu 324.752†	81747.4	0.2714	mg/L	0.00073	0.5428	mg/L	0.00147	0.27%
Fe 273.955†	231724.4	220.6	mg/L	1.10	441.3	mg/L	2.20	0.50%
K 766.490†	14919.9	9.024	mg/L	0.1096	18.05	mg/L	0.219	1.22%
Mg 279.077†	121514.4	69.57	mg/L	0.024	139.1	mg/L	0.05	0.03%
Mn 257.610†	111723.0	3.878	mg/L	0.0091	7.755	mg/L	0.0182	0.23%
Mo 202.031†	78.7	0.00811	mg/L	0.000266	0.01622	mg/L	0.000532	3.28%
Na 589.592†	25741.8	3.857	mg/L	0.0101	7.715	mg/L	0.0201	0.26%
Na 330.237†	66.9	4.017	mg/L	0.2111	8.033	mg/L	0.4221	5.25%
Ni 231.604†	622.1	0.2966	mg/L	0.00939	0.5932	mg/L	0.01878	3.17%
Pb 220.353†	1858.4	0.1874	mg/L	0.00125	0.3747	mg/L	0.00251	0.67%
Sb 206.836†	29.5	0.02836	mg/L	0.002294	0.05673	mg/L	0.004587	8.09%
Se 196.026†	-104.1	-0.06014	mg/L	0.005527	-0.1203	mg/L	0.01105	9.19%
Si 288.158†	3462.2	1.992	mg/L	0.0273	3.983	mg/L	0.0547	1.37%
Sn 189.927†	-65.5	-0.00169	mg/L	0.001076	-0.00338	mg/L	0.002152	63.61%
Sr 421.552†	350551.6	0.4638	mg/L	0.00090	0.9277	mg/L	0.00181	0.19%
Ti 334.903†	315311.5	11.00	mg/L	0.014	22.00	mg/L	0.028	0.13%
Tl 190.801†	-16.0	-0.02325	mg/L	0.004129	-0.04650	mg/L	0.008259	17.76%
V 292.402†	201853.4	0.5849	mg/L	0.00221	1.170	mg/L	0.0044	0.38%
Zn 206.200†	1081.8	0.9745	mg/L	0.01464	1.949	mg/L	0.0293	1.50%

Sequence No.: 6
Sample ID: JT86 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 34
Date Collected: 9/12/2006 4:09:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 D SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JT86 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1718841.3	94.26	%	0.191				0.20%
ScR 361.383	200023.9	99.82	%	0.125				0.12%
Ag 328.068†	-3497.0	-0.00177	mg/L	0.000271	-0.00355	mg/L	0.000541	15.26%
Al 308.215†	219819.8	150.6	mg/L	0.19	301.3	mg/L	0.37	0.12%
As 188.979†	110.6	0.04784	mg/L	0.000473	0.09569	mg/L	0.000946	0.99%
B 249.677†	146.9	0.04628	mg/L	0.000347	0.09256	mg/L	0.000694	0.75%
Ba 233.527†	3103.2	0.8377	mg/L	0.00226	1.675	mg/L	0.0045	0.27%
Be 313.042†	2570.0	0.00325	mg/L	0.000022	0.00651	mg/L	0.000044	0.67%
Ca 317.933†	1438923.1	59.82	mg/L	0.077	119.6	mg/L	0.15	0.13%
Cd 228.802†	84.9	0.00005	mg/L	0.000186	0.00009	mg/L	0.000371	392.94%
Co 228.616†	4711.0	0.08499	mg/L	0.000463	0.1700	mg/L	0.00093	0.55%
Cr 267.716†	2027.0	0.2436	mg/L	0.00035	0.4871	mg/L	0.00070	0.14%
Cu 324.752†	68822.1	0.2299	mg/L	0.00028	0.4599	mg/L	0.00057	0.12%
Fe 273.955†	211363.8	201.3	mg/L	0.09	402.5	mg/L	0.18	0.04%
K 766.490†	17570.3	10.63	mg/L	0.055	21.25	mg/L	0.109	0.52%
Mg 279.077†	93998.2	53.79	mg/L	0.035	107.6	mg/L	0.07	0.06%
Mn 257.610†	135574.8	4.706	mg/L	0.0052	9.413	mg/L	0.0103	0.11%
Mo 202.031†	77.2	0.00835	mg/L	0.000269	0.01670	mg/L	0.000538	3.22%
Na 589.592†	23180.8	3.474	mg/L	0.0070	6.947	mg/L	0.0140	0.20%
Na 330.237†	57.2	3.611	mg/L	0.3594	7.222	mg/L	0.7188	9.95%
Ni 231.604†	476.6	0.2273	mg/L	0.00362	0.4546	mg/L	0.00724	1.59%
Pb 220.353†	1304.0	0.1400	mg/L	0.00097	0.2800	mg/L	0.00194	0.69%
Sb 206.836†	24.4	0.02449	mg/L	0.005141	0.04898	mg/L	0.010282	20.99%
Se 196.026†	-103.6	-0.06080	mg/L	0.006479	-0.1216	mg/L	0.01296	10.66%
Si 288.158†	3300.5	1.898	mg/L	0.0109	3.797	mg/L	0.0217	0.57%
Sn 189.927†	-58.4	-0.00295	mg/L	0.000576	-0.00591	mg/L	0.001153	19.51%
Sr 421.552†	293677.2	0.3886	mg/L	0.00077	0.7772	mg/L	0.00153	0.20%
Ti 334.903†	274309.6	9.569	mg/L	0.0113	19.14	mg/L	0.023	0.12%
Tl 190.801†	-17.3	-0.02265	mg/L	0.001822	-0.04530	mg/L	0.003644	8.04%
V 292.402†	171406.7	0.4965	mg/L	0.00070	0.9929	mg/L	0.00141	0.14%
Zn 206.200†	602.9	0.5413	mg/L	0.00341	1.083	mg/L	0.0068	0.63%

Sequence No.: 7
Sample ID: JT86 H SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 35
Date Collected: 9/12/2006 4:15:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 H SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JT86 H SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1729106.8	94.82	%	0.420				0.44%
ScR 361.383	200194.3	99.90	%	0.346				0.35%
Ag 328.068†	-931.7	0.00119	mg/L	0.000334	0.00238	mg/L	0.000668	28.02%
Al 308.215†	106077.7	72.69	mg/L	0.020	145.4	mg/L	0.04	0.03%
As 188.979†	70.2	0.03565	mg/L	0.003491	0.07131	mg/L	0.006982	9.79%
B 249.677†	154.0	0.05020	mg/L	0.002130	0.1004	mg/L	0.00426	4.24%
Ba 233.527†	2586.1	0.7017	mg/L	0.00318	1.403	mg/L	0.0064	0.45%
Be 313.042†	1320.9	0.00169	mg/L	0.000015	0.00338	mg/L	0.000030	0.88%
Ca 317.933†	1335403.1	55.51	mg/L	0.085	111.0	mg/L	0.17	0.15%
Cd 228.802†	67.5	0.00046	mg/L	0.000166	0.00092	mg/L	0.000333	36.03%
Co 228.616†	2145.2	0.03795	mg/L	0.000071	0.07590	mg/L	0.000141	0.19%
Cr 267.716†	1089.8	0.1297	mg/L	0.00058	0.2593	mg/L	0.00116	0.45%
Cu 324.752†	47438.8	0.1572	mg/L	0.00040	0.3144	mg/L	0.00080	0.25%
Fe 273.955†	124973.4	119.0	mg/L	0.49	238.0	mg/L	0.98	0.41%
K 766.490†	8642.7	5.227	mg/L	0.0131	10.45	mg/L	0.026	0.25%
Mg 279.077†	45013.4	25.74	mg/L	0.048	51.49	mg/L	0.095	0.18%
Mn 257.610†	228995.9	7.952	mg/L	0.0109	15.90	mg/L	0.022	0.14%
Mo 202.031†	71.0	0.00678	mg/L	0.000378	0.01357	mg/L	0.000756	5.58%
Na 589.592†	22025.6	3.301	mg/L	0.0204	6.601	mg/L	0.0408	0.62%
Na 330.237†	82.0	3.227	mg/L	0.1164	6.453	mg/L	0.2327	3.61%
Ni 231.604†	234.4	0.1118	mg/L	0.00264	0.2235	mg/L	0.00529	2.37%
Pb 220.353†	4267.0	0.3763	mg/L	0.00202	0.7527	mg/L	0.00403	0.54%
Sb 206.836†	22.4	0.01940	mg/L	0.002723	0.03881	mg/L	0.005445	14.03%
Se 196.026†	-60.8	-0.04157	mg/L	0.005068	-0.08315	mg/L	0.010135	12.19%
Si 288.158†	2787.5	1.603	mg/L	0.0117	3.206	mg/L	0.0234	0.73%
Sn 189.927†	-62.6	-0.00267	mg/L	0.001258	-0.00534	mg/L	0.002516	47.08%
Sr 421.552†	292384.4	0.3869	mg/L	0.00004	0.7737	mg/L	0.00007	0.01%
Ti 334.903†	126618.0	4.417	mg/L	0.0019	8.834	mg/L	0.0037	0.04%
Tl 190.801†	-20.4	-0.01960	mg/L	0.004199	-0.03919	mg/L	0.008397	21.43%
V 292.402†	83839.0	0.2439	mg/L	0.00041	0.4878	mg/L	0.00082	0.17%
Zn 206.200†	375.7	0.3377	mg/L	0.00154	0.6755	mg/L	0.00308	0.46%

Sequence No.: 8
Sample ID: JT86 GDUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 36
Date Collected: 9/12/2006 4:21:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 GDUP SWC

Analyte	Back Pressure	Flow
All	182.0 kPa	0.50 L/min

Mean Data: JT86 GDUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1739435.9	95.39	%	0.178				0.19%
ScR 361.383	202381.1	101.0	%	0.57				0.57%
Ag 328.068†	-3876.7	-0.00196	mg/L	0.000063	-0.00392	mg/L	0.000127	3.23%
Al 308.215†	228312.3	156.5	mg/L	0.24	312.9	mg/L	0.48	0.15%
As 188.979†	116.2	0.05054	mg/L	0.002650	0.1011	mg/L	0.00530	5.24%
B 249.677†	123.3	0.03831	mg/L	0.003316	0.07662	mg/L	0.006631	8.65%
Ba 233.527†	3026.6	0.8150	mg/L	0.00589	1.630	mg/L	0.0118	0.72%
Be 313.042†	2855.7	0.00365	mg/L	0.000014	0.00730	mg/L	0.000028	0.39%
Ca 317.933†	1465664.2	60.93	mg/L	0.088	121.9	mg/L	0.18	0.14%
Cd 228.802†	85.8	-0.00016	mg/L	0.000068	-0.00032	mg/L	0.000136	42.85%
Co 228.616†	4941.2	0.08880	mg/L	0.000152	0.1776	mg/L	0.00030	0.17%
Cr 267.716†	2231.0	0.2684	mg/L	0.00160	0.5367	mg/L	0.00320	0.60%
Cu 324.752†	69311.2	0.2334	mg/L	0.00059	0.4668	mg/L	0.00119	0.25%
Fe 273.955†	234782.3	223.5	mg/L	0.95	447.1	mg/L	1.90	0.43%
K 766.490†	15218.9	9.205	mg/L	0.0257	18.41	mg/L	0.051	0.28%
Mg 279.077†	102440.1	58.62	mg/L	0.091	117.2	mg/L	0.18	0.16%
Mn 257.610†	151083.9	5.245	mg/L	0.0128	10.49	mg/L	0.026	0.24%
Mo 202.031†	69.8	0.00776	mg/L	0.000625	0.01552	mg/L	0.001250	8.05%
Na 589.592†	22006.6	3.298	mg/L	0.0070	6.595	mg/L	0.0140	0.21%
Na 330.237†	43.3	3.262	mg/L	0.2282	6.525	mg/L	0.4563	6.99%
Ni 231.604†	506.6	0.2416	mg/L	0.00237	0.4832	mg/L	0.00474	0.98%
Pb 220.353†	909.7	0.1077	mg/L	0.00047	0.2154	mg/L	0.00095	0.44%
Sb 206.836†	22.8	0.02346	mg/L	0.003391	0.04691	mg/L	0.006782	14.46%
Se 196.026†	-115.8	-0.06798	mg/L	0.003588	-0.1360	mg/L	0.00718	5.28%
Si 288.158†	3218.2	1.851	mg/L	0.0105	3.702	mg/L	0.0211	0.57%
Sn 189.927†	-65.2	-0.00419	mg/L	0.001260	-0.00838	mg/L	0.002520	30.08%
Sr 421.552†	287338.2	0.3802	mg/L	0.00045	0.7604	mg/L	0.00090	0.12%
Ti 334.903†	288387.8	10.06	mg/L	0.011	20.12	mg/L	0.021	0.11%
Tl 190.801†	-19.7	-0.02499	mg/L	0.004129	-0.04997	mg/L	0.008259	16.53%
V 292.402†	182792.0	0.5296	mg/L	0.00111	1.059	mg/L	0.0022	0.21%
Zn 206.200†	626.5	0.5620	mg/L	0.00072	1.124	mg/L	0.0014	0.13%

Sequence No.: 9
Sample ID: JT86 G SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 9/12/2006 4:27:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 G SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JT86 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1748376.7	95.88	%	0.056				0.06%
ScR 361.383	200228.1	99.92	%	0.895				0.90%
Ag 328.068†	-4059.9	-0.00240	mg/L	0.000216	-0.00480	mg/L	0.000432	9.00%
Al 308.215†	232249.0	159.2	mg/L	0.19	318.3	mg/L	0.39	0.12%
As 188.979†	118.7	0.05086	mg/L	0.005258	0.1017	mg/L	0.01052	10.34%
B 249.677†	122.9	0.03798	mg/L	0.004783	0.07596	mg/L	0.009567	12.59%
Ba 233.527†	2991.4	0.8055	mg/L	0.00295	1.611	mg/L	0.0059	0.37%
Be 313.042†	2857.1	0.00363	mg/L	0.000005	0.00727	mg/L	0.000010	0.14%
Ca 317.933†	1501504.4	62.42	mg/L	0.081	124.8	mg/L	0.16	0.13%
Cd 228.802†	84.1	-0.00018	mg/L	0.000158	-0.00036	mg/L	0.000315	87.35%
Co 228.616†	5050.9	0.09038	mg/L	0.000837	0.1808	mg/L	0.00167	0.93%
Cr 267.716†	2220.3	0.2673	mg/L	0.00005	0.5345	mg/L	0.00010	0.02%
Cu 324.752†	69800.2	0.2346	mg/L	0.00037	0.4692	mg/L	0.00074	0.16%
Fe 273.955†	232265.2	221.2	mg/L	0.93	442.3	mg/L	1.86	0.42%
K 766.490†	16002.3	9.679	mg/L	0.0664	19.36	mg/L	0.133	0.69%
Mg 279.077†	103142.0	59.02	mg/L	0.115	118.0	mg/L	0.23	0.19%
Mn 257.610†	123921.6	4.301	mg/L	0.0060	8.603	mg/L	0.0121	0.14%
Mo 202.031†	63.8	0.00732	mg/L	0.000602	0.01464	mg/L	0.001203	8.22%
Na 589.592†	22255.2	3.335	mg/L	0.0015	6.670	mg/L	0.0031	0.05%
Na 330.237†	39.9	3.275	mg/L	0.2446	6.550	mg/L	0.4893	7.47%
Ni 231.604†	500.2	0.2385	mg/L	0.00379	0.4771	mg/L	0.00759	1.59%
Pb 220.353†	837.7	0.1021	mg/L	0.00037	0.2042	mg/L	0.00074	0.36%
Sb 206.836†	22.9	0.02406	mg/L	0.004763	0.04811	mg/L	0.009525	19.80%
Se 196.026†	-116.9	-0.06747	mg/L	0.002554	-0.1349	mg/L	0.00511	3.79%
Si 288.158†	5429.3	3.123	mg/L	0.0094	6.245	mg/L	0.0189	0.30%
Sn 189.927†	-72.7	-0.00536	mg/L	0.001680	-0.01071	mg/L	0.003359	31.36%
Sr 421.552†	288855.7	0.3822	mg/L	0.00044	0.7644	mg/L	0.00088	0.12%
Ti 334.903†	303974.2	10.60	mg/L	0.007	21.21	mg/L	0.015	0.07%
Tl 190.801†	-16.0	-0.02278	mg/L	0.000976	-0.04556	mg/L	0.001953	4.29%
V 292.402†	187105.2	0.5417	mg/L	0.00049	1.083	mg/L	0.0010	0.09%
Zn 206.200†	620.9	0.5570	mg/L	0.00301	1.114	mg/L	0.0060	0.54%

19.8

Sequence No.: 10
Sample ID: JT86 GSPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 38
Date Collected: 9/12/2006 4:34:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 GSPK SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JT86 GSPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1738791.3	95.36	%	0.115				0.12%
ScR 361.383	200984.0	100.3	%	0.33				0.32%
Ag 328.068†	171929.9	0.4773	mg/L	0.00077	0.9547	mg/L	0.00154	0.16%
Al 308.215†	235871.3	161.6	mg/L	0.64	323.3	mg/L	1.27	0.39%
As 188.979†	2473.8	1.957	mg/L	0.0208	3.915	mg/L	0.0415	1.06%
B 249.677†	122.6	0.03885	mg/L	0.001642	0.07771	mg/L	0.003285	4.23%
Ba 233.527†	9683.4	2.643	mg/L	0.0159	5.287	mg/L	0.0318	0.60%
Be 313.042†	318545.3	0.4987	mg/L	0.00254	0.9974	mg/L	0.00509	0.51%
Ca 317.933†	1717408.8	71.39	mg/L	0.340	142.8	mg/L	0.68	0.48%
Cd 228.802†	18846.3	0.4867	mg/L	0.00279	0.9733	mg/L	0.00557	0.57%
Co 228.616†	25435.1	0.5399	mg/L	0.00385	1.080	mg/L	0.0077	0.71%
Cr 267.716†	6233.0	0.7378	mg/L	0.00587	1.476	mg/L	0.0117	0.80%
Cu 324.752†	230478.2	0.7332	mg/L	0.00145	1.466	mg/L	0.0029	0.20%
Fe 273.955†	236068.7	224.8	mg/L	0.56	449.5	mg/L	1.11	0.25%
K 766.490†	30106.6	18.21	mg/L	0.137	36.42	mg/L	0.274	0.75%
Mg 279.077†	118084.5	67.60	mg/L	0.252	135.2	mg/L	0.50	0.37%
Mn 257.610†	136719.8	4.746	mg/L	0.0181	9.492	mg/L	0.0362	0.38%
Mo 202.031†	81.6	0.00862	mg/L	0.001228	0.01724	mg/L	0.002456	14.24%
Na 589.592†	89981.3	13.48	mg/L	0.041	26.97	mg/L	0.082	0.30%
Na 330.237†	359.4	13.53	mg/L	0.128	27.06	mg/L	0.256	0.95%
Ni 231.604†	1489.3	0.7101	mg/L	0.00590	1.420	mg/L	0.0118	0.83%
Pb 220.353†	22665.0	1.956	mg/L	0.0112	3.912	mg/L	0.0224	0.57%
Sb 206.836†	38.8	0.03006	mg/L	0.008276	0.06012	mg/L	0.016551	27.53%
Se 196.026†	3477.4	1.857	mg/L	0.0223	3.713	mg/L	0.0446	1.20%
Si 288.158†	3600.6	2.072	mg/L	0.0129	4.144	mg/L	0.0258	0.62%
Sn 189.927†	-72.6	-0.00382	mg/L	0.001453	-0.00763	mg/L	0.002907	38.08%
Sr 421.552†	661492.4	0.8752	mg/L	0.00388	1.750	mg/L	0.0078	0.44%
Ti 334.903†	296554.6	10.35	mg/L	0.043	20.69	mg/L	0.085	0.41%
Tl 190.801†	2481.0	1.813	mg/L	0.0077	3.626	mg/L	0.0153	0.42%
V 292.402†	354021.5	1.031	mg/L	0.0017	2.061	mg/L	0.0035	0.17%
Zr 206.200†	1155.2	1.041	mg/L	0.0095	2.081	mg/L	0.0189	0.91%

Sequence No.: 11
Sample ID: JT86 MB1SPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 39
Date Collected: 9/12/2006 4:39:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 MB1SPK SWC

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: JT86 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1785424.5	97.91	%	1.628				1.66%
ScR 361.383	199473.5	99.55	%	0.731				0.73%
Ag 328.068†	183593.1	0.5004	mg/L	0.00545	1.001	mg/L	0.0109	1.09%
Al 308.215†	3041.8	2.076	mg/L	0.0236	4.152	mg/L	0.0472	1.14%
As 188.979†	2478.6	2.006	mg/L	0.0423	4.011	mg/L	0.0846	2.11%
B 249.677†	-7.2	-0.00145	mg/L	0.002216	-0.00291	mg/L	0.004431	152.29%
Ba 233.527†	7164.0	1.968	mg/L	0.0149	3.935	mg/L	0.0299	0.76%
Be 313.042†	337132.9	0.5287	mg/L	0.00410	1.057	mg/L	0.0082	0.78%
Ca 317.933†	251563.1	10.46	mg/L	0.076	20.91	mg/L	0.152	0.72%
Cd 228.802†	19472.9	0.5053	mg/L	0.00992	1.011	mg/L	0.0198	1.96%
Co 228.616†	22055.8	0.4859	mg/L	0.00928	0.9718	mg/L	0.01856	1.91%
Cr 267.716†	4314.7	0.5056	mg/L	0.00421	1.011	mg/L	0.0084	0.83%
Cu 324.752†	162612.1	0.5045	mg/L	0.00574	1.009	mg/L	0.0115	1.14%
Fe 273.955†	2225.2	2.117	mg/L	0.0131	4.235	mg/L	0.0262	0.62%
K 766.490†	16644.0	10.07	mg/L	0.077	20.13	mg/L	0.153	0.76%
Mg 279.077†	18324.8	10.52	mg/L	0.069	21.03	mg/L	0.138	0.66%
Mn 257.610†	14621.4	0.5080	mg/L	0.00450	1.016	mg/L	0.0090	0.89%
Mo 202.031†	24.7	0.00181	mg/L	0.000452	0.00362	mg/L	0.000903	24.94%
Na 589.592†	70108.2	10.51	mg/L	0.078	21.01	mg/L	0.156	0.74%
Na 330.237†	350.1	11.31	mg/L	0.308	22.62	mg/L	0.615	2.72%
Ni 231.604†	1066.8	0.5087	mg/L	0.00294	1.017	mg/L	0.0059	0.58%
Pb 220.353†	23699.7	2.013	mg/L	0.0207	4.026	mg/L	0.0413	1.03%
Sb 206.836†	13.7	0.00408	mg/L	0.002968	0.00815	mg/L	0.005936	72.80%
Se 196.026†	3781.7	2.024	mg/L	0.0383	4.048	mg/L	0.0766	1.89%
Si 288.158†	22.7	0.01413	mg/L	0.003453	0.02825	mg/L	0.006907	24.45%
Sn 189.927†	-21.6	-0.00210	mg/L	0.000577	-0.00421	mg/L	0.001155	27.44%
Sr 421.552†	390479.5	0.5167	mg/L	0.00369	1.033	mg/L	0.0074	0.72%
Ti 334.903†	31.7	0.00100	mg/L	0.000234	0.00199	mg/L	0.000467	23.43%
Tl 190.801†	2768.6	2.035	mg/L	0.0401	4.070	mg/L	0.0803	1.97%
V 292.402†	178189.6	0.5219	mg/L	0.00574	1.044	mg/L	0.0115	1.10%
Zn 206.200†	572.0	0.5179	mg/L	0.00504	1.036	mg/L	0.0101	0.97%

Sequence No.: 12
Sample ID: JT86 MB1SPD SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 41
Date Collected: 9/12/2006 4:45:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JT86 MB1SPD SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JT86 MB1SPD SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1740024.4	95.42	%	0.611				0.64%
ScR 361.383	195243.8	97.43	%	1.291				1.33%
Ag 328.068†	188829.5	0.5147	mg/L	0.00256	1.029	mg/L	0.0051	0.50%
Al 308.215†	3058.3	2.087	mg/L	0.0272	4.174	mg/L	0.0543	1.30%
As 188.979†	2558.7	2.071	mg/L	0.0138	4.141	mg/L	0.0275	0.66%
B 249.677†	-8.2	-0.00182	mg/L	0.001964	-0.00364	mg/L	0.003928	107.95%
Ba 233.527†	7123.4	1.956	mg/L	0.0235	3.913	mg/L	0.0469	1.20%
Be 313.042†	333204.9	0.5225	mg/L	0.00582	1.045	mg/L	0.0116	1.11%
Ca 317.933†	249340.7	10.36	mg/L	0.122	20.73	mg/L	0.244	1.18%
Cd 228.802†	20058.2	0.5204	mg/L	0.00380	1.041	mg/L	0.0076	0.73%
Co 228.616†	22707.5	0.5003	mg/L	0.00307	1.001	mg/L	0.0061	0.61%
Cr 267.716†	4302.7	0.5042	mg/L	0.00618	1.008	mg/L	0.0124	1.23%
Cu 324.752†	166448.5	0.5164	mg/L	0.00255	1.033	mg/L	0.0051	0.49%
Fe 273.955†	2223.3	2.116	mg/L	0.0255	4.231	mg/L	0.0510	1.21%
K 766.490†	16756.0	10.13	mg/L	0.133	20.27	mg/L	0.266	1.31%
Mg 279.077†	18064.6	10.37	mg/L	0.124	20.73	mg/L	0.248	1.20%
Mn 257.610†	14444.8	0.5019	mg/L	0.00632	1.004	mg/L	0.0126	1.26%
Mo 202.031†	27.5	0.00204	mg/L	0.000174	0.00408	mg/L	0.000349	8.55%
Na 589.592†	70585.5	10.58	mg/L	0.129	21.15	mg/L	0.257	1.22%
Na 330.237†	329.7	10.64	mg/L	0.252	21.28	mg/L	0.504	2.37%
Ni 231.604†	1058.2	0.5045	mg/L	0.00704	1.009	mg/L	0.0141	1.39%
Pb 220.353†	24259.0	2.060	mg/L	0.0061	4.120	mg/L	0.0123	0.30%
Sb 206.836†	14.1	0.00444	mg/L	0.001101	0.00887	mg/L	0.002202	24.82%
Se 196.026†	3890.3	2.082	mg/L	0.0128	4.165	mg/L	0.0257	0.62%
Si 288.158†	9.3	0.00642	mg/L	0.004418	0.01284	mg/L	0.008836	68.83%
Sn 189.927†	-16.7	-0.00124	mg/L	0.000523	-0.00249	mg/L	0.001047	42.06%
Sr 421.552†	391114.9	0.5175	mg/L	0.00629	1.035	mg/L	0.0126	1.22%
Ti 334.903†	15.7	0.00044	mg/L	0.000043	0.00088	mg/L	0.000087	9.88%
Tl 190.801†	2849.2	2.094	mg/L	0.0148	4.189	mg/L	0.0295	0.71%
V 292.402†	183036.3	0.5360	mg/L	0.00219	1.072	mg/L	0.0044	0.41%
Zn 206.200†	561.1	0.5080	mg/L	0.00540	1.016	mg/L	0.0108	1.06%

Sequence No.: 13
Sample ID: CV
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 4:51:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1729903.6	94.87	%	0.383				0.40%
ScR 361.383	198074.3	98.85	%	0.679				0.69%
Ag 328.068†	364034.1	0.9920	mg/L	0.00302	0.9920	mg/L	0.00302	0.30%
Al 308.215†	2928.2	1.969	mg/L	0.0313	1.969	mg/L	0.0313	1.59%
As 188.979†	2448.2	1.978	mg/L	0.0054	1.978	mg/L	0.0054	0.27%
B 249.677†	2917.6	0.9765	mg/L	0.01089	0.9765	mg/L	0.01089	1.11%
Ba 233.527†	3536.3	0.9709	mg/L	0.01007	0.9709	mg/L	0.01007	1.04%
Be 313.042†	636344.3	0.9978	mg/L	0.00343	0.9978	mg/L	0.00343	0.34%
Ca 317.933†	48983.8	2.036	mg/L	0.0097	2.036	mg/L	0.0097	0.48%
Cd 228.802†	39481.3	1.027	mg/L	0.0025	1.027	mg/L	0.0025	0.24%
Co 228.616†	44674.7	0.9836	mg/L	0.00625	0.9836	mg/L	0.00625	0.64%
Cr 267.716†	8231.1	0.9668	mg/L	0.01101	0.9668	mg/L	0.01101	1.14%
Cu 324.752†	332828.7	1.032	mg/L	0.0032	1.032	mg/L	0.0032	0.31%
Fe 273.955†	2139.2	2.034	mg/L	0.0160	2.034	mg/L	0.0160	0.79%
K 766.490†	31477.0	19.04	mg/L	0.206	19.04	mg/L	0.206	1.08%
Mg 279.077†	3470.8	1.996	mg/L	0.0282	1.996	mg/L	0.0282	1.41%
Mn 257.610†	27377.6	0.9513	mg/L	0.00934	0.9513	mg/L	0.00934	0.98%
Mo 202.031†	12378.4	1.008	mg/L	0.0049	1.008	mg/L	0.0049	0.49%
Na 589.592†	335417.1	50.26	mg/L	0.220	50.26	mg/L	0.220	0.44%
Na 330.237†	1520.2	50.06	mg/L	0.344	50.06	mg/L	0.344	0.69%
Ni 231.604†	2111.5	1.008	mg/L	0.0095	1.008	mg/L	0.0095	0.95%
Pb 220.353†	23519.2	1.998	mg/L	0.0080	1.998	mg/L	0.0080	0.40%
Sb 206.836†	2800.6	2.117	mg/L	0.0120	2.117	mg/L	0.0120	0.57%
Se 196.026†	3712.1	1.986	mg/L	0.0114	1.986	mg/L	0.0114	0.57%
Si 288.158†	3263.7	1.879	mg/L	0.0244	1.879	mg/L	0.0244	1.30%
Sn 189.927†	5559.9	0.9813	mg/L	0.00538	0.9813	mg/L	0.00538	0.55%
Sr 421.552†	746740.4	0.9880	mg/L	0.00387	0.9880	mg/L	0.00387	0.39%
Ti 334.903†	29131.3	1.015	mg/L	0.0036	1.015	mg/L	0.0036	0.36%
Tl 190.801†	2683.7	1.972	mg/L	0.0081	1.972	mg/L	0.0081	0.41%
V 292.402†	348382.5	1.021	mg/L	0.0034	1.021	mg/L	0.0034	0.33%
Zn 206.200†	1129.3	1.022	mg/L	0.0095	1.022	mg/L	0.0095	0.93%

Sequence No.: 14
Sample ID: CB0
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 4:58:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1774643.1	97.32	%	0.377				0.39%
ScR 361.383	199795.6	99.71	%	0.199				0.20%
Ag 328.068†	38.0	0.00010	mg/L	0.000113	0.00010	mg/L	0.000113	109.00%
Al 308.215†	-12.3	-0.00841	mg/L	0.015971	-0.00841	mg/L	0.015971	189.93%
As 188.979†	-2.8	-0.00230	mg/L	0.001879	-0.00230	mg/L	0.001879	81.68%
B 249.677†	-2.1	-0.00071	mg/L	0.001118	-0.00071	mg/L	0.001118	158.22%
Ba 233.527†	3.6	0.00099	mg/L	0.000930	0.00099	mg/L	0.000930	94.21%
Be 313.042†	16.8	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	57.92%
Ca 317.933†	5.2	0.00022	mg/L	0.001391	0.00022	mg/L	0.001391	644.17%
Cd 228.802†	2.6	0.00007	mg/L	0.000135	0.00007	mg/L	0.000135	188.45%
Co 228.616†	-7.8	-0.00017	mg/L	0.000033	-0.00017	mg/L	0.000033	19.29%
Cr 267.716†	3.4	0.00040	mg/L	0.000504	0.00040	mg/L	0.000504	126.53%
Cu 324.752†	-26.6	-0.00008	mg/L	0.000272	-0.00008	mg/L	0.000272	328.69%
Fe 273.955†	2.5	0.00234	mg/L	0.003138	0.00234	mg/L	0.003138	134.11%
K 766.490†	-73.1	-0.04421	mg/L	0.022667	-0.04421	mg/L	0.022667	51.27%
Mg 279.077†	-8.3	-0.00474	mg/L	0.004723	-0.00474	mg/L	0.004723	99.62%
Mn 257.610†	-6.7	-0.00023	mg/L	0.000187	-0.00023	mg/L	0.000187	80.97%
Mo 202.031†	8.8	0.00072	mg/L	0.000210	0.00072	mg/L	0.000210	29.20%
Na 589.592†	-1297.0	-0.1944	mg/L	0.00467	-0.1944	mg/L	0.00467	2.40%
Na 330.237†	3.5	0.1146	mg/L	0.46171	0.1146	mg/L	0.46171	402.72%
Ni 231.604†	-1.5	-0.00072	mg/L	0.003275	-0.00072	mg/L	0.003275	454.78%
Pb 220.353†	2.5	0.00021	mg/L	0.000265	0.00021	mg/L	0.000265	125.58%
Sb 206.836†	3.6	0.00274	mg/L	0.000500	0.00274	mg/L	0.000500	18.23%
Se 196.026†	3.9	0.00211	mg/L	0.003722	0.00211	mg/L	0.003722	176.38%
Si 288.158†	8.0	0.00460	mg/L	0.003037	0.00460	mg/L	0.003037	65.99%
Sn 189.927†	1.4	0.00026	mg/L	0.000136	0.00026	mg/L	0.000136	53.03%
Sr 421.552†	-13.7	-0.00002	mg/L	0.000041	-0.00002	mg/L	0.000041	229.38%
Ti 334.903†	-25.1	-0.00088	mg/L	0.000270	-0.00088	mg/L	0.000270	30.77%
Tl 190.801†	7.3	0.00540	mg/L	0.003588	0.00540	mg/L	0.003588	66.49%
V 292.402†	-13.4	-0.00004	mg/L	0.000146	-0.00004	mg/L	0.000146	416.21%
Zn 206.200†	-2.0	-0.00179	mg/L	0.002067	-0.00179	mg/L	0.002067	115.68%

Sequence No.: 15
Sample ID: JU43 J SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 42
Date Collected: 9/12/2006 5:04:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 J SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 J SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1772393.3	97.20	%	0.268				0.28%
ScR 361.383	201178.4	100.4	%	0.10				0.10%
Ag 328.068†	-3564.8	-0.00105	mg/L	0.000179	-0.00210	mg/L	0.000358	17.04%
Al 308.215†	181268.0	124.2	mg/L	0.39	248.4	mg/L	0.77	0.31%
As 188.979†	80.1	0.02380	mg/L	0.006809	0.04760	mg/L	0.013617	28.61%
B 249.677†	22.7	0.00403	mg/L	0.000964	0.00805	mg/L	0.001928	23.95%
Ba 233.527†	2684.0	0.7213	mg/L	0.00181	1.443	mg/L	0.0036	0.25%
Be 313.042†	2044.5	0.00231	mg/L	0.000040	0.00461	mg/L	0.000080	1.72%
Ca 317.933†	997198.1	41.45	mg/L	0.096	82.91	mg/L	0.191	0.23%
Cd 228.802†	85.4	-0.00008	mg/L	0.000189	-0.00017	mg/L	0.000378	224.91%
Co 228.616†	5273.6	0.09464	mg/L	0.000450	0.1893	mg/L	0.00090	0.48%
Cr 267.716†	1015.5	0.1296	mg/L	0.00025	0.2593	mg/L	0.00049	0.19%
Cu 324.752†	45529.6	0.1592	mg/L	0.00053	0.3184	mg/L	0.00105	0.33%
Fe 273.955†	228757.6	217.8	mg/L	1.18	435.6	mg/L	2.37	0.54%
K 766.490†	8759.3	5.298	mg/L	0.0123	10.60	mg/L	0.025	0.23%
Mg 279.077†	58306.0	33.30	mg/L	0.085	66.60	mg/L	0.170	0.26%
Mn 257.610†	100873.0	3.502	mg/L	0.0127	7.003	mg/L	0.0255	0.36%
Mo 202.031†	28.4	0.00428	mg/L	0.000573	0.00855	mg/L	0.001145	13.39%
Na 589.592†	35663.4	5.344	mg/L	0.0082	10.69	mg/L	0.016	0.15%
Na 330.237†	90.6	5.167	mg/L	0.0538	10.33	mg/L	0.108	1.04%
Ni 231.604†	326.0	0.1554	mg/L	0.00311	0.3109	mg/L	0.00623	2.00%
Pb 220.353†	1426.0	0.1451	mg/L	0.00187	0.2902	mg/L	0.00373	1.29%
Sb 206.836†	17.6	0.02254	mg/L	0.002630	0.04509	mg/L	0.005260	11.67%
Se 196.026†	-100.8	-0.05797	mg/L	0.002030	-0.1159	mg/L	0.00406	3.50%
Si 288.158†	3389.5	1.949	mg/L	0.0094	3.899	mg/L	0.0187	0.48%
Sn 189.927†	-50.4	-0.00449	mg/L	0.000187	-0.00898	mg/L	0.000373	4.15%
Sr 421.552†	396320.9	0.5244	mg/L	0.00153	1.049	mg/L	0.0031	0.29%
Ti 334.903†	306722.4	10.70	mg/L	0.032	21.40	mg/L	0.064	0.30%
Tl 190.801†	-9.0	-0.01773	mg/L	0.001143	-0.03547	mg/L	0.002286	6.45%
V 292.402†	198624.7	0.5741	mg/L	0.00336	1.148	mg/L	0.0067	0.59%
Zn 206.200†	573.0	0.5135	mg/L	0.00529	1.027	mg/L	0.0106	1.03%

Sequence No.: 16
Sample ID: JU43 O SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 43
Date Collected: 9/12/2006 5:10:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 O SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 O SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1794350.8	98.40	%	0.216				0.22%
ScR 361.383	204715.7	102.2	%	1.04				1.02%
Ag 328.068†	-3650.6	-0.00141	mg/L	0.000141	-0.00283	mg/L	0.000282	9.99%
Al 308.215†	141282.0	96.81	mg/L	0.904	193.6	mg/L	1.81	0.93%
As 188.979†	70.4	0.01633	mg/L	0.010137	0.03266	mg/L	0.020273	62.06%
B 249.677†	22.4	0.00361	mg/L	0.001716	0.00723	mg/L	0.003432	47.49%
Ba 233.527†	2136.3	0.5708	mg/L	0.00770	1.142	mg/L	0.0154	1.35%
Be 313.042†	1891.6	0.00201	mg/L	0.000047	0.00403	mg/L	0.000094	2.33%
Ca 317.933†	966272.7	40.17	mg/L	0.393	80.34	mg/L	0.785	0.98%
Cd 228.802†	61.5	-0.00070	mg/L	0.000060	-0.00140	mg/L	0.000119	8.50%
Co 228.616†	5237.2	0.09193	mg/L	0.000628	0.1839	mg/L	0.00126	0.68%
Cr 267.716†	978.0	0.1251	mg/L	0.00127	0.2502	mg/L	0.00254	1.02%
Cu 324.752†	34197.8	0.1240	mg/L	0.00037	0.2480	mg/L	0.00075	0.30%
Fe 273.955†	229753.3	218.8	mg/L	1.35	437.5	mg/L	2.69	0.62%
K 766.490†	7200.3	4.355	mg/L	0.0669	8.710	mg/L	0.1339	1.54%
Mg 279.077†	53270.5	30.41	mg/L	0.340	60.82	mg/L	0.680	1.12%
Mn 257.610†	132825.9	4.612	mg/L	0.0399	9.223	mg/L	0.0799	0.87%
Mo 202.031†	38.3	0.00454	mg/L	0.000244	0.00907	mg/L	0.000487	5.37%
Na 589.592†	35438.1	5.310	mg/L	0.0437	10.62	mg/L	0.087	0.82%
Na 330.237†	87.8	5.320	mg/L	0.2443	10.64	mg/L	0.489	4.59%
Ni 231.604†	307.4	0.1466	mg/L	0.00339	0.2932	mg/L	0.00678	2.31%
Pb 220.353†	103.8	0.02763	mg/L	0.000657	0.05525	mg/L	0.001314	2.38%
Sb 206.836†	15.1	0.02160	mg/L	0.001956	0.04319	mg/L	0.003913	9.06%
Se 196.026†	-87.3	-0.05199	mg/L	0.002503	-0.1040	mg/L	0.00501	4.81%
Si 288.158†	2440.2	1.403	mg/L	0.0138	2.807	mg/L	0.0276	0.98%
Sn 189.927†	-47.9	-0.00437	mg/L	0.001382	-0.00875	mg/L	0.002765	31.60%
Sr 421.552†	329797.9	0.4364	mg/L	0.00404	0.8727	mg/L	0.00808	0.93%
Ti 334.903†	330790.3	11.54	mg/L	0.109	23.08	mg/L	0.218	0.94%
Tl 190.801†	-9.3	-0.01875	mg/L	0.001923	-0.03750	mg/L	0.003846	10.26%
V 292.402†	209716.1	0.6061	mg/L	0.00186	1.212	mg/L	0.0037	0.31%
Zn 206.200†	476.8	0.4263	mg/L	0.00664	0.8526	mg/L	0.01329	1.56%

Sequence No.: 17
Sample ID: JU43 N SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 44
Date Collected: 9/12/2006 5:16:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: JU43 N SWC

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: JU43 N SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1796249.9	98.51	%	0.321				0.33%
ScR 361.383	208259.8	103.9	%	0.20				0.19%
Ag 328.068†	-3514.4	-0.00140	mg/L	0.000176	-0.00279	mg/L	0.000353	12.63%
Al 308.215†	151044.3	103.5	mg/L	0.08	207.0	mg/L	0.16	0.08%
As 188.979†	69.8	0.01853	mg/L	0.006117	0.03705	mg/L	0.012234	33.02%
B 249.677†	16.9	0.00225	mg/L	0.002772	0.00449	mg/L	0.005545	123.44%
Ba 233.527†	2339.4	0.6277	mg/L	0.00274	1.255	mg/L	0.0055	0.44%
Be 313.042†	1734.4	0.00182	mg/L	0.000022	0.00364	mg/L	0.000043	1.18%
Ca 317.933†	963863.3	40.07	mg/L	0.065	80.13	mg/L	0.129	0.16%
Cd 228.802†	58.7	-0.00063	mg/L	0.000126	-0.00125	mg/L	0.000252	20.07%
Co 228.616†	5163.4	0.09295	mg/L	0.000080	0.1859	mg/L	0.00016	0.09%
Cr 267.716†	970.3	0.1237	mg/L	0.00051	0.2474	mg/L	0.00101	0.41%
Cu 324.752†	39148.4	0.1382	mg/L	0.00047	0.2765	mg/L	0.00094	0.34%
Fe 273.955†	214491.6	204.2	mg/L	1.48	408.5	mg/L	2.96	0.72%
K 766.490†	7148.1	4.323	mg/L	0.0083	8.647	mg/L	0.0166	0.19%
Mg 279.077†	55958.6	31.96	mg/L	0.024	63.92	mg/L	0.049	0.08%
Mn 257.610†	86719.6	3.010	mg/L	0.0109	6.021	mg/L	0.0218	0.36%
Mo 202.031†	35.4	0.00442	mg/L	0.000395	0.00884	mg/L	0.000789	8.93%
Na 589.592†	34366.4	5.150	mg/L	0.0151	10.30	mg/L	0.030	0.29%
Na 330.237†	104.6	5.547	mg/L	0.2054	11.09	mg/L	0.411	3.70%
Ni 231.604†	332.2	0.1584	mg/L	0.00249	0.3168	mg/L	0.00497	1.57%
Pb 220.353†	1224.8	0.1240	mg/L	0.00020	0.2481	mg/L	0.00040	0.16%
Sb 206.836†	21.5	0.02524	mg/L	0.002113	0.05049	mg/L	0.004226	8.37%
Se 196.026†	-91.4	-0.05235	mg/L	0.003400	-0.1047	mg/L	0.00680	6.49%
Si 288.158†	3420.1	1.967	mg/L	0.0057	3.934	mg/L	0.0114	0.29%
Sn 189.927†	-48.9	-0.00435	mg/L	0.001423	-0.00870	mg/L	0.002846	32.73%
Sr 421.552†	374400.9	0.4954	mg/L	0.00043	0.9908	mg/L	0.00087	0.09%
Ti 334.903†	294189.3	10.26	mg/L	0.017	20.53	mg/L	0.034	0.16%
Tl 190.801†	-9.7	-0.01788	mg/L	0.003476	-0.03576	mg/L	0.006951	19.44%
V 292.402†	198546.1	0.5739	mg/L	0.00216	1.148	mg/L	0.0043	0.38%
Zn 206.200†	499.6	0.4474	mg/L	0.00473	0.8948	mg/L	0.00946	1.06%

Sequence No.: 18
Sample ID: CV 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 9/12/2006 5:23:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	184.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1731391.5	94.95	%	0.924				0.97%
ScR 361.383	196224.9	97.92	%	0.531				0.54%
Ag 328.068†	362676.2	0.9883	mg/L	0.00240	0.9883	mg/L	0.00240	0.24%
Al 308.215†	2906.0	1.954	mg/L	0.0095	1.954	mg/L	0.0095	0.49%
As 188.979†	2458.9	1.986	mg/L	0.0194	1.986	mg/L	0.0194	0.98%
B 249.677†	2865.0	0.9589	mg/L	0.00108	0.9589	mg/L	0.00108	0.11%
Ba 233.527†	3463.4	0.9509	mg/L	0.00296	0.9509	mg/L	0.00296	0.31%
Be 313.042†	625244.6	0.9804	mg/L	0.00264	0.9804	mg/L	0.00264	0.27%
Ca 317.933†	48352.6	2.010	mg/L	0.0061	2.010	mg/L	0.0061	0.30%
Cd 228.802†	39335.1	1.024	mg/L	0.0015	1.024	mg/L	0.0015	0.15%
Co 228.616†	44603.8	0.9821	mg/L	0.00263	0.9821	mg/L	0.00263	0.27%
Cr 267.716†	8083.9	0.9495	mg/L	0.00219	0.9495	mg/L	0.00219	0.23%
Cu 324.752†	331657.0	1.028	mg/L	0.0035	1.028	mg/L	0.0035	0.34%
Fe 273.955†	2107.4	2.004	mg/L	0.0025	2.004	mg/L	0.0025	0.13%
K 766.490†	31562.5	19.09	mg/L	0.170	19.09	mg/L	0.170	0.89%
Mg 279.077†	3409.7	1.961	mg/L	0.0110	1.961	mg/L	0.0110	0.56%
Mn 257.610†	26868.0	0.9336	mg/L	0.00193	0.9336	mg/L	0.00193	0.21%
Mo 202.031†	12400.9	1.010	mg/L	0.0114	1.010	mg/L	0.0114	1.13%
Na 589.592†	335261.4	50.24	mg/L	0.078	50.24	mg/L	0.078	0.16%
Na 330.237†	1507.7	49.65	mg/L	0.101	49.65	mg/L	0.101	0.20%
Ni 231.604†	2059.8	0.9834	mg/L	0.00280	0.9834	mg/L	0.00280	0.29%
Pb 220.353†	23487.7	1.996	mg/L	0.0068	1.996	mg/L	0.0068	0.34%
Sb 206.836†	2799.4	2.117	mg/L	0.0239	2.117	mg/L	0.0239	1.13%
Se 196.026†	3715.4	1.988	mg/L	0.0203	1.988	mg/L	0.0203	1.02%
Si 288.158†	3232.9	1.861	mg/L	0.0065	1.861	mg/L	0.0065	0.35%
Sn 189.927†	5572.4	0.9835	mg/L	0.01024	0.9835	mg/L	0.01024	1.04%
Sr 421.552†	743928.2	0.9843	mg/L	0.00281	0.9843	mg/L	0.00281	0.29%
Ti 334.903†	28858.2	1.005	mg/L	0.0018	1.005	mg/L	0.0018	0.18%
Tl 190.801†	2677.9	1.968	mg/L	0.0236	1.968	mg/L	0.0236	1.20%
V 292.402†	346955.4	1.016	mg/L	0.0021	1.016	mg/L	0.0021	0.21%
Zn 206.200†	1099.6	0.9948	mg/L	0.00179	0.9948	mg/L	0.00179	0.18%

Sequence No.: 19
Sample ID: CB
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 9/12/2006 5:29:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	183.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1781727.6	97.71	%	1.508				1.54%
ScR 361.383	196217.4	97.92	%	0.740				0.76%
Ag 328.068†	40.6	0.00011	mg/L	0.000100	0.00011	mg/L	0.000100	90.45%
Al 308.215†	7.3	0.00499	mg/L	0.010277	0.00499	mg/L	0.010277	206.01%
As 188.979†	-1.0	-0.00085	mg/L	0.002157	-0.00085	mg/L	0.002157	254.37%
B 249.677†	1.1	0.00037	mg/L	0.001975	0.00037	mg/L	0.001975	535.19%
Ba 233.527†	3.3	0.00090	mg/L	0.000450	0.00090	mg/L	0.000450	49.92%
Be 313.042†	7.5	0.00001	mg/L	0.000027	0.00001	mg/L	0.000027	226.61%
Ca 317.933†	19.2	0.00080	mg/L	0.001201	0.00080	mg/L	0.001201	150.66%
Cd 228.802†	2.7	0.00007	mg/L	0.000090	0.00007	mg/L	0.000090	124.49%
Co 228.616†	3.4	0.00008	mg/L	0.000201	0.00008	mg/L	0.000201	261.72%
Cr 267.716†	7.4	0.00087	mg/L	0.000382	0.00087	mg/L	0.000382	43.90%
Cu 324.752†	-38.1	-0.00012	mg/L	0.000174	-0.00012	mg/L	0.000174	147.11%
Fe 273.955†	0.4	0.00038	mg/L	0.001797	0.00038	mg/L	0.001797	473.72%
K 766.490†	-56.4	-0.03414	mg/L	0.011941	-0.03414	mg/L	0.011941	34.98%
Mg 279.077†	-7.4	-0.00422	mg/L	0.012966	-0.00422	mg/L	0.012966	307.04%
Mn 257.610†	-1.4	-0.00005	mg/L	0.000019	-0.00005	mg/L	0.000019	40.66%
Mo 202.031†	6.0	0.00049	mg/L	0.000183	0.00049	mg/L	0.000183	37.28%
Na 589.592†	-1824.2	-0.2734	mg/L	0.00641	-0.2734	mg/L	0.00641	2.34%
Na 330.237†	-0.7	-0.02327	mg/L	0.175686	-0.02327	mg/L	0.175686	754.90%
Ni 231.604†	-2.0	-0.00096	mg/L	0.002399	-0.00096	mg/L	0.002399	250.35%
Pb 220.353†	1.4	0.00012	mg/L	0.000534	0.00012	mg/L	0.000534	442.41%
Sb 206.836†	2.6	0.00197	mg/L	0.000657	0.00197	mg/L	0.000657	33.31%
Se 196.026†	5.4	0.00289	mg/L	0.006173	0.00289	mg/L	0.006173	213.61%
Si 288.158†	4.1	0.00239	mg/L	0.002261	0.00239	mg/L	0.002261	94.69%
Sn 189.927†	4.8	0.00085	mg/L	0.000428	0.00085	mg/L	0.000428	50.39%
Sr 421.552†	84.0	0.00011	mg/L	0.000011	0.00011	mg/L	0.000011	9.92%
Ti 334.903†	-32.3	-0.00113	mg/L	0.000582	-0.00113	mg/L	0.000582	51.67%
Tl 190.801†	1.2	0.00085	mg/L	0.002441	0.00085	mg/L	0.002441	286.92%
V 292.402†	-34.5	-0.00009	mg/L	0.000190	-0.00009	mg/L	0.000190	203.22%
Zn 206.200†	-0.7	-0.00065	mg/L	0.004100	-0.00065	mg/L	0.004100	631.36%

end pkg

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM **Final Volume** 50 **Sample ID** JD43 ASPK, MBSPK

Date: 9.06.06 **Final Volume (Hg):**

		Prepcode:	SW6		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	2261-1		
		Vol Added (mL):	1.0		
	Ag		50		2.0
S	Al		200	200	
T	As		200		10
O	Ba		200	200	
C	Be		50	50	
K	Ca		1000	1000	
	Cd		50		2.0
	Co		50	50	
C	Cr		50	50	
O	Cu		50	50	
N	Fe		200	200	
C	K		1000	1000	
E	Mg		1000	1000	
N	Mn		50	50	
T	Na		1000	1000	
R	Ni		50	50	
A	Pb		200 ✓		10
T	Se		200		10
I	Sr		50	50	
O	Tl		200		10
N	V		50	50	
	Zn		50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

1512

Total Solids

Oven in:
Analyst: DM Date: 9-06-06 Time: 0845 Temp: 102°C

Oven out:
Analyst: EJR Date: 09-07-06 Time: 0800 Temp: 101°C

ARI Sample ID		Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
JU47	A	1.092	10.439	9.613	
"	B	1.023	10.785	8.353	
"	C	1.050	10.041	8.244	
JU48	A	1.017	10.889	9.114	
JU89	A	1.037	10.474	9.542	
"	B	1.044	10.588	9.387	
"	C	1.045	10.402	9.222	
"	D	1.014	10.323	8.986	
"	E	0.979	10.028	8.786	
JU99	A	1.027	10.960	10.463	
"	B	1.029	10.168	9.727	
"	C	0.991	10.847	10.290	
"	D	0.987	10.425	9.847	
JV13	A	1.022	10.151	9.083	
"	B	1.025	10.450	8.898	
JU43	A	1.035	10.722	6.182	
"	B & C	1.036	10.136	6.267	
"	& B	1.049	10.438	6.555	
"	D	1.044	10.043	5.861	
"	E	1.003	10.641	6.489	
"	F	1.054	10.729	6.525	
"	J	0.998	10.304	7.827	
"	L	1.044	10.343	7.846	
"	N	1.003	10.361	7.675	
"	O	0.968	10.311	8.142	

DM 9-6-06

Digestion Log

Analyst: DM

Matrix: Soil

Date: 9-06-06

Block Temp: 95°C

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
JU99 A	1	—	1.064	50.0			
" B	1	—	1.023	↑			
" C	1	—	1.013				
" D	1	—	1.028				
" REF	D044	—	1.000				
" MB	—	—	—				
JV13 A	3	—	1.050				
" B	3	—	1.041				
" MB1	—	—	—				
" MB1SPK	—	—	—				
JU43 A	2	—	1.034				
" ADUP	2	—	1.035				
" ASPK	2	—	1.037				
" C BS	2	—	1.006				
" B BS	2	—	1.048				
" D	2	—	1.021				
" E	2	—	1.054				
" F	2	—	1.023				
" J	2	—	1.063				
" L	2	—	1.048				
" N	2	—	1.044				
" O	2	—	1.044				
" MB1	—	—	—	↓			
" MB1SPK	—	—	—	50.0			
				9-6-06 DM			

DM 9-6-06

Chemical/Reagent ID:

HNO_3: MP1026I I2853

HCl: I2854

H_2O_2: I2928

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

METHOD BLANK RESULTS-CONVENTIONALS
JU43-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/01/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/29/06	Percent	< 0.01 U
Total Organic Carbon	08/30/06	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JU43-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/01/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/30/06	Percent	0.514	0.500	102.8%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JU43-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/01/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/30/06	Percent	2.93	3.35	87.5%

REPLICATE RESULTS-CONVENTIONALS
JU43-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/01/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JU43J Client ID: T4-S3-02-K					
Total Solids	08/29/06	Percent	73.20	73.30 73.40	0.1%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

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by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
JU43-Anchor Environmental

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 09/01/06

Project: T4 EARLY ACTION
Event: 050332-01
Date Sampled: 07/18/06
Date Received: 07/24/06

Client ID: T4-S3-02-K
ARI ID: 06-15854 JU43J

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/29/06 082906#1	EPA 160.3	Percent	0.01	73.20
Total Organic Carbon	08/30/06 083006#1	Plumb,1981	Percent	0.020	0.980

RL Analytical reporting limit
U Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL

Project: T4 Early Action, 050332-01

ARI JOB NO: JU43

prepared
by

Analytical Resources, Inc.

JU43

8-30-06

TOC, Solids Data Analysis

Mode: NPOC *Inlet:* Boat

Spike Std = 2,000 *ppm C*

DATE:	8/30/2006
ANALYST:	KE 9:52

Calibration Data

Calibration Standard			Source:	ARI # 0062-08		Conc:	2,000	ppm
	Observed Values (µg/g)				mean	*Cal Factor*		
	1,570	1,578	1,585		1,578	*1.268*		
Verification Standard			Source:	SPEX 32-44 As		Conc:	5,000	ppm
	ICV	CCV	CCV	CCV	CCV	*mean*	*% Rec*	
	5,138	5,062	5,142			*5,114*	*102.3%*	
Standard Reference Material			Source:	***NIST 8704***		Conc:	**33,510**	ppm

Blank Data

								Historical Blank Limits	
System Blanks (enter "observed C")								*mean*	*stdev*
	Replicate determinations					Mean	condition	17.8	7.23
	19.74	32.05	49.90			33.90	OK !	*updated*	*9/27/2005*
Silica Blanks (enter "corrected C" at end of run)								*LBL*	-3.9
	Replicate determinations					Mean	condition	*UBL*	39.5

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data					Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5172	5,138	*102.76%*
Blank				1.00		10.0	19.74		*Blank OK*
NIST 8704				1.00		3.3	29340	29,306	*87.45%*
JU43 J2				1.00		3.3	9445	9,411	*Range OK!*
JU43 J2 dup				1.00		3.4	11440	11,406	*RPD=19.2%*
JU43 J2 trp				1.00		3.2	9803	9,769	*RSD=10.4%*
JU43 J2 ms				1.00	10	2.1	18930	18,896	*Range OK!*
Spike =	*0.02*	*mg C to*	*2.1*	*mg samp=*	*9,524*	*ppm*		*100%*	
JU34 A2				1.00		1.8	2217	2,183	*Range OK!*
JU34 B2				1.00		2.7	1709	1,675	*Range OK!*
JU34 B2 dup				1.00		2.7	1601	1,567	*RPD=6.7%*
JU34 B2 trp				1.00		2.5	1398	1,364	*RSD=10.3%*
JU34 B2 ms				1.00	10	1.1	21560	21,526	*Range OK!*
Spike =	*0.02*	*mg C to*	*1.1*	*mg samp=*	*18,182*	*ppm*		*109%*	
CCV				1.00		10.0	5096	5,062	*101.24%*
~~Blank~~			-	~~1.00~~		~~10.0~~	~~60.67~~	-	~~*Blank OK*~~
Blank				1.00		10.0	32.05		*Blank OK*
# 1-86 JB				1.00		10.0	5179	5,145	*102.90%*
JU18 C1				1.00		1.4	21270	21,236	*Range OK!*
NIST 8704				1.00		3.4	33130	33,096	*98.76%*
CCV				1.00		10.0	5176	5,142	*102.84%*
Blank				1.00		10.0	49.9		*Blank OK*

JW
8-30-06

JU43

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

DATE:	8/29/2006
ANALYST:	KE 17:22

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
Blank			13.0394		13.0391	-0.3 mg	
JU43 J 2		-	13.1911	18.5520	17.2759	76.20%	
JU43 J 2 DUP		-	13.1028	18.5882	17.2710	75.99%	
JU43 J 2 TRIP		-	13.1805	18.8622	17.4496	75.14%	

JU43

dw
8-30-06

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 8/29/2006

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: KE

Batch drying time	*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm	*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
8/29/2006 17:20 time in oven	*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
8/30/2006 9:24 time out		*if ash wt > dry wt, "Chk for Err"*
elapsed hrs = 16.1		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		8/29/2006	8/29/2006	8/30/2006										
Time & Initials -->		17:14 KE	16:46 KE	9:38 KE										
Cal Wt (g)	10.0000	9.9999	9.9999	9.9996										
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*										
Blank			1.0166	1.0162			0.00							
JU43 J2		5.6145	1.0109	4.3829			3.37	73.2%						
JU43 J2 dup		5.8303	1.0029	4.5406			3.54	73.3%						
							RPD =	0.05%				RPD =	NA	
JU43 J2 trp		5.5108	1.0394	4.3210			3.28	73.4%						
							RSD =	0.10%				RSD =	NA	
JU56 A1		6.4086	0.9980	2.1099			1.11	20.6%						
JU56 A1 dup		6.2546	0.9931	2.0751			1.08	20.6%						
							RPD =	0.07%				RPD =	NA	
JU56 A1 trp		6.2025	1.0091	2.0871			1.08	20.8%						
							RSD =	0.56%				RSD =	NA	

1525