Analytical Sequence
Method: 10-02-12

Seq.	Loc.	ID	Status
1	1	Calib Blank 1	Applied
2	2	ICP STD1-0.05PPM(7-6-12)	Applied
3	3	ICP STD2-1PPM(7-6-12)	Applied
4	4	ICP STD3-20PPM(7-6-12)	Applied
5	5	ICP STD4-2PPM(7-6-12)	Applied
6	9	ICP STD5-100PPM(7-6-12)	Applied
7	10	ICP STD6-10PPM(7-6-12)	Applied

Analysis Begun

Start Time: 10/17/2012 12:34:57 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 8
Sample ID: ICP_ICV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 10/17/2012 12:34:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_ICV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	65463.5	0.5042	mg/L	0.00877	0.5042	mg/L	0.00877	1.74%
QC value within limits for Ag 328.068 Recovery = 100.83%								
Al 308.215	36124.9	1.054	mg/L	0.0159	1.054	mg/L	0.0159	1.50%
QC value within limits for Al 308.215 Recovery = 105.35%								
As 188.979	5423.8	0.9795	mg/L	0.00415	0.9795	mg/L	0.00415	0.42%
QC value within limits for As 188.979 Recovery = 97.95%								
B 249.677	87152.2	0.9858	mg/L	0.02102	0.9858	mg/L	0.02102	2.13%
QC value within limits for B 249.677 Recovery = 98.58%								
Ba 233.527	110275.5	1.071	mg/L	0.0217	1.071	mg/L	0.0217	2.03%
QC value within limits for Ba 233.527 Recovery = 107.06%								
Be 313.107	2181482.7	0.9856	mg/L	0.07949	0.9856	mg/L	0.07949	8.07%
QC value within limits for Be 313.107 Recovery = 98.56%								
Bi 223.061	-57.7	-0.0266	mg/L	0.00087	-0.0266	mg/L	0.00087	3.29%
Bi 190.171	4.9	0.0060	mg/L	0.00777	0.0060	mg/L	0.00777	129.48%
Ca 315.887	2197.7	1.084	mg/L	0.0043	1.084	mg/L	0.0043	0.39%
Ca 317.933	2593.7	1.083	mg/L	0.0034	1.083	mg/L	0.0034	0.31%
Cd 214.440	44590.8	1.006	mg/L	0.0264	1.006	mg/L	0.0264	2.62%
QC value within limits for Cd 214.440 Recovery = 100.60%								
Co 228.616	26422.3	1.035	mg/L	0.0271	1.035	mg/L	0.0271	2.62%
QC value within limits for Co 228.616 Recovery = 103.48%								
Cr 267.716	40980.8	1.062	mg/L	0.0257	1.062	mg/L	0.0257	2.42%
QC value within limits for Cr 267.716 Recovery = 106.16%								
Cu 324.752	290447.4	0.9751	mg/L	0.08825	0.9751	mg/L	0.08825	9.05%
QC value within limits for Cu 324.752 Recovery = 97.51%								
Fe 238.204	41688.7	1.058	mg/L	0.0251	1.058	mg/L	0.0251	2.38%
QC value within limits for Fe 238.204 Recovery = 105.77%								
Fe 273.955	17373.4	1.043	mg/L	0.0143	1.043	mg/L	0.0143	1.37%
QC value within limits for Fe 273.955 Recovery = 104.35%								
K 766.490	27439.6	10.39	mg/L	0.975	10.39	mg/L	0.975	9.39%
Mg 279.077	243.4	1.088	mg/L	0.0090	1.088	mg/L	0.0090	0.83%
Mn 257.610	436865.1	1.017	mg/L	0.0783	1.017	mg/L	0.0783	7.70%
QC value within limits for Mn 257.610 Recovery = 101.68%								
Mo 202.031	4451.4	0.9980	mg/L	0.00137	0.9980	mg/L	0.00137	0.14%
QC value within limits for Mo 202.031 Recovery = 99.80%								
Na 589.592	6325.6	1.065	mg/L	0.0990	1.065	mg/L	0.0990	9.30%
Na 330.237	-22.1	-3.057	mg/L	0.5386	-3.057	mg/L	0.5386	17.62%
Ni 231.604	19600.6	1.046	mg/L	0.0226	1.046	mg/L	0.0226	2.16%
QC value within limits for Ni 231.604 Recovery = 104.59%								
Pb 220.353	20541.8	1.045	mg/L	0.0009	1.045	mg/L	0.0009	0.09%
QC value within limits for Pb 220.353 Recovery = 104.48%								
Sb 206.836	1044.4	0.9508	mg/L	0.00087	0.9508	mg/L	0.00087	0.09%
QC value within limits for Sb 206.836 Recovery = 95.08%								
Se 196.026	7738.5	0.9879	mg/L	0.00216	0.9879	mg/L	0.00216	0.22%
QC value within limits for Se 196.026 Recovery = 98.79%								
Sn 189.927	-10.2	-0.0033	mg/L	0.00000	-0.0033	mg/L	0.00000	0.04%
Sr 407.771	397059.2	0.9231	mg/L	0.07827	0.9231	mg/L	0.07827	8.48%
QC value within limits for Sr 407.771 Recovery = 92.31%								
Sr 421.552	222613.0	0.9260	mg/L	0.07660	0.9260	mg/L	0.07660	8.27%
QC value within limits for Sr 421.552 Recovery = 92.60%								
Ti 334.940	373826.9	1.016	mg/L	0.0797	1.016	mg/L	0.0797	7.85%
QC value within limits for Ti 334.940 Recovery = 101.55%								
Tl 190.801	5758.5	1.041	mg/L	0.0050	1.041	mg/L	0.0050	0.48%

W 207.912	32.6	0.0132 mg/L	0.00007	0.0132 mg/L	0.00007	0.50%
Y 371.029	1722.3				79.86	4.64%
Zn 206.200	15178.0	1.031 mg/L	0.0227	1.031 mg/L	0.0227	2.20%
QC value within limits for Zn 206.200 Recovery = 103.13%						
P 213.617	-1917.2	-1.410 mg/L	0.0652	-1.410 mg/L	0.0652	4.62%
Si 251.611	39526.6	1.008 mg/L	0.0152	1.008 mg/L	0.0152	1.50%
QC value within limits for Si 251.611 Recovery = 100.77%						
Li 670.784	61865.3	0.9431 mg/L	0.06770	0.9431 mg/L	0.06770	7.18%
Li 610.362	6083.7	0.8810 mg/L	0.14183	0.8810 mg/L	0.14183	16.10%
S 181.975	4.8	0.0198 mg/L	0.01106	0.0198 mg/L	0.01106	55.84%

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICP_ICB(Daily)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/17/2012 12:37:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_ICB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2414.4	0.0186	mg/L	0.00021	0.0186	mg/L	0.00021	1.15%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 308.215	277.8	0.0081	mg/L	0.00156	0.0081	mg/L	0.00156	19.30%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979	13.6	0.0025	mg/L	0.00178	0.0025	mg/L	0.00178	72.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677	1436.9	0.0163	mg/L	0.00077	0.0163	mg/L	0.00077	4.73%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated								
Ba 233.527	36.4	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	11.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107	323.7	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	30.33%
QC value within limits for Be 313.107 Recovery = Not calculated								
Bi 223.061	17.8	0.0082	mg/L	0.00656	0.0082	mg/L	0.00656	80.09%
QC value within limits for Bi 223.061 Recovery = Not calculated								
Bi 190.171	-2.6	-0.0032	mg/L	0.00160	-0.0032	mg/L	0.00160	50.25%
QC value within limits for Bi 190.171 Recovery = Not calculated								
Ca 315.887	14.8	0.0073	mg/L	0.00335	0.0073	mg/L	0.00335	45.90%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933	28.9	0.0121	mg/L	0.00204	0.0121	mg/L	0.00204	16.92%
QC value greater than the upper limit for Ca 317.933 Recovery = Not calculated								
Cd 214.440	25.4	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	2.03%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Co 228.616	2.8	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716	20.0	0.0005	mg/L	0.00020	0.0005	mg/L	0.00020	38.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752	166.5	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	4.53%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204	68.2	0.0017	mg/L	0.00013	0.0017	mg/L	0.00013	7.69%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Fe 273.955	86.9	0.0052	mg/L	0.00010	0.0052	mg/L	0.00010	1.91%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490	-110.4	-0.0418	mg/L	0.06583	-0.0418	mg/L	0.06583	157.54%
QC value less than the lower limit for K 766.490 Recovery = Not calculated								
Mg 279.077	2.6	0.0118	mg/L	0.02472	0.0118	mg/L	0.02472	209.78%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610	197.8	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.27%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031	11.1	0.0025	mg/L	0.00070	0.0025	mg/L	0.00070	28.06%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	169.8	0.0286	mg/L	0.04612	0.0286	mg/L	0.04612	161.35%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated								
Na 330.237	-3.7	-0.5136	mg/L	0.19393	-0.5136	mg/L	0.19393	37.76%
QC value less than the lower limit for Na 330.237 Recovery = Not calculated								
Ni 231.604	-1.7	-0.0001	mg/L	0.00029	-0.0001	mg/L	0.00029	319.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353	36.5	0.0019	mg/L	0.00074	0.0019	mg/L	0.00074	39.97%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836	10.5	0.0095	mg/L	0.00074	0.0095	mg/L	0.00074	7.72%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026	-15.2	-0.0019	mg/L	0.01213	-0.0019	mg/L	0.01213	626.17%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927	-4.9	-0.0016	mg/L	0.00157	-0.0016	mg/L	0.00157	99.24%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771	151.9	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	57.48%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Sr 421.552	46.1	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	42.89%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 334.940	-213.9	-0.0006	mg/L	0.00015	-0.0006	mg/L	0.00015	25.25%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801	6.2	0.0011	mg/L	0.00012	0.0011	mg/L	0.00012	10.31%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880	196.9	0.0013	mg/L	0.00016	0.0013	mg/L	0.00016	12.57%
QC value within limits for V 290.880 Recovery = Not calculated								

ALAB : 00085

Zn 206.200	6.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.03%
QC value within limits for Zn 206.200 Recovery = Not calculated						
P 213.617	11.9	0.0087 mg/L	0.00033	0.0087 mg/L	0.00033	3.77%
Si 251.611	112.3	0.0029 mg/L	0.00019	0.0029 mg/L	0.00019	6.58%
Li 670.784	115.2	0.0018 mg/L	0.00687	0.0018 mg/L	0.00687	391.47%
Li 610.362	-104.1	-0.0151 mg/L	0.01447	-0.0151 mg/L	0.01447	95.97%
S 181.975	0.7	0.0028 mg/L	0.01498	0.0028 mg/L	0.01498	537.55%

QC Failed. Continue with analysis.

Analysis Begun

Start Time: 10/17/2012 12:58:54 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 35
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 10/17/2012 12:58:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	65106.0	0.5014	mg/L	0.01294	0.5014	mg/L	0.01294	2.58%
QC value within limits for Ag 328.068 Recovery = 100.28%								
Al 308.215	36056.4	1.052	mg/L	0.0419	1.052	mg/L	0.0419	3.98%
QC value within limits for Al 308.215 Recovery = 105.15%								
As 188.979	5482.9	0.9902	mg/L	0.00574	0.9902	mg/L	0.00574	0.58%
QC value within limits for As 188.979 Recovery = 99.02%								
B 249.677	82509.1	0.9333	mg/L	0.03590	0.9333	mg/L	0.03590	3.85%
QC value within limits for B 249.677 Recovery = 93.33%								
Ba 233.527	109831.9	1.066	mg/L	0.0330	1.066	mg/L	0.0330	3.09%
QC value within limits for Ba 233.527 Recovery = 106.63%								
Be 313.107	2270287.1	1.026	mg/L	0.0217	1.026	mg/L	0.0217	2.12%
QC value within limits for Be 313.107 Recovery = 102.57%								
Bi 223.061	-57.3	-0.0264	mg/L	0.00241	-0.0264	mg/L	0.00241	9.12%
Bi 190.171	5.7	0.0071	mg/L	0.00156	0.0071	mg/L	0.00156	22.07%
Ca 315.887	2307.1	1.138	mg/L	0.0001	1.138	mg/L	0.0001	0.01%
Ca 317.933	2732.7	1.141	mg/L	0.0035	1.141	mg/L	0.0035	0.30%
Cd 214.440	44123.9	0.9954	mg/L	0.03829	0.9954	mg/L	0.03829	3.85%
QC value within limits for Cd 214.440 Recovery = 99.54%								
Co 228.616	26352.0	1.032	mg/L	0.0360	1.032	mg/L	0.0360	3.49%
QC value within limits for Co 228.616 Recovery = 103.21%								
Cr 267.716	40541.5	1.050	mg/L	0.0291	1.050	mg/L	0.0291	2.77%
QC value within limits for Cr 267.716 Recovery = 105.02%								
Cu 324.752	299201.3	1.004	mg/L	0.0344	1.004	mg/L	0.0344	3.43%
QC value within limits for Cu 324.752 Recovery = 100.44%								
Fe 238.204	41675.2	1.057	mg/L	0.0443	1.057	mg/L	0.0443	4.19%
QC value within limits for Fe 238.204 Recovery = 105.73%								
Fe 273.955	17237.6	1.035	mg/L	0.0278	1.035	mg/L	0.0278	2.68%
QC value within limits for Fe 273.955 Recovery = 103.53%								
K 766.490	28617.2	10.83	mg/L	0.153	10.83	mg/L	0.153	1.41%
Mg 279.077	251.8	1.125	mg/L	0.0049	1.125	mg/L	0.0049	0.44%
Mn 257.610	453360.6	1.055	mg/L	0.0280	1.055	mg/L	0.0280	2.65%
QC value within limits for Mn 257.610 Recovery = 105.52%								
Mo 202.031	4560.0	1.022	mg/L	0.0339	1.022	mg/L	0.0339	3.31%
QC value within limits for Mo 202.031 Recovery = 102.24%								
Na 589.592	7114.5	1.198	mg/L	0.0333	1.198	mg/L	0.0333	2.78%
Na 330.237	-23.9	-3.308	mg/L	0.4379	-3.308	mg/L	0.4379	13.24%
Ni 231.604	19546.6	1.043	mg/L	0.0424	1.043	mg/L	0.0424	4.06%
QC value within limits for Ni 231.604 Recovery = 104.30%								
Pb 220.353	20174.4	1.026	mg/L	0.0520	1.026	mg/L	0.0520	5.07%
QC value within limits for Pb 220.353 Recovery = 102.61%								
Sb 206.836	1045.8	0.9521	mg/L	0.00361	0.9521	mg/L	0.00361	0.38%
QC value within limits for Sb 206.836 Recovery = 95.21%								
Se 196.026	7906.0	1.009	mg/L	0.0053	1.009	mg/L	0.0053	0.52%
QC value within limits for Se 196.026 Recovery = 100.92%								
Sn 189.927	-9.9	-0.0032	mg/L	0.00141	-0.0032	mg/L	0.00141	43.69%
Sr 407.771	413225.5	0.9606	mg/L	0.01199	0.9606	mg/L	0.01199	1.25%
QC value within limits for Sr 407.771 Recovery = 96.06%								
Sr 421.552	233075.7	0.9695	mg/L	0.00478	0.9695	mg/L	0.00478	0.49%
QC value within limits for Sr 421.552 Recovery = 96.95%								
Ti 334.940	390240.5	1.060	mg/L	0.0248	1.060	mg/L	0.0248	2.33%
QC value within limits for Ti 334.940 Recovery = 106.01%								
Tl 190.801	5779.0	1.045	mg/L	0.0081	1.045	mg/L	0.0081	0.78%

W 207.912	19.5	0.0079 mg/L	0.00211	0.0079 mg/L	0.00211	26.85%
Y 371.029	1592.7				17.94	1.13%
Zn 206.200	14999.0	1.019 mg/L	0.0460	1.019 mg/L	0.0460	4.51%
QC value within limits for Zn 206.200 Recovery = 101.91%						
P 213.617	-1875.6	-1.380 mg/L	0.0857	-1.380 mg/L	0.0857	6.21%
Si 251.611	39389.5	1.004 mg/L	0.0321	1.004 mg/L	0.0321	3.20%
QC value within limits for Si 251.611 Recovery = 100.42%						
Li 670.784	66363.6	1.012 mg/L	0.0302	1.012 mg/L	0.0302	2.98%
Li 610.362	7284.4	1.055 mg/L	0.0083	1.055 mg/L	0.0083	0.79%
S 181.975	4.5	0.0184 mg/L	0.00602	0.0184 mg/L	0.00602	32.64%

All analyte(s) passed QC.

User canceled analysis.

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Analysis Begun

Start Time: 10/17/2012 1:01:42 PM
Logged In Analyst: kedy
Spectrometer Model: Optima 4300 DV, S/N 077N1091901
Plasma On Time: 10/17/2012 11:56:53 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\10-17-12.sif
Batch ID: 10-17-12
Results Data Set: 10-17-12
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 37
Sample ID: ICP_CCB(Daily)
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 8
Date Collected: 10/17/2012 1:01:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	2507.4	0.0193	mg/L	0.00066	0.0193	mg/L	0.00066	3.44%
Al 308.215	216.3	0.0063	mg/L	0.00037	0.0063	mg/L	0.00037	5.81%
As 188.979	22.5	0.0041	mg/L	0.00002	0.0041	mg/L	0.00002	0.39%
B 249.677	-1994.0	-0.0226	mg/L	0.00000	-0.0226	mg/L	0.00000	0.02%
Ba 233.527	72.9	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	12.14%
Be 313.107	1099.7	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	14.81%
Bi 223.061	-2.9	-0.0013	mg/L	0.00222	-0.0013	mg/L	0.00222	165.43%
Bi 190.171	-2.1	-0.0026	mg/L	0.00763	-0.0026	mg/L	0.00763	298.80%
Ca 315.887	28.7	0.0142	mg/L	0.00317	0.0142	mg/L	0.00317	22.34%
Ca 317.933	42.5	0.0177	mg/L	0.00401	0.0177	mg/L	0.00401	22.64%
Cd 214.440	26.6	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	1.87%
Co 228.616	19.9	0.0008	mg/L	0.00010	0.0008	mg/L	0.00010	13.21%
Cr 267.716	28.5	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.68%
Cu 324.752	235.1	0.0008	mg/L	0.00022	0.0008	mg/L	0.00022	27.73%
Fe 238.204	90.3	0.0023	mg/L	0.00018	0.0023	mg/L	0.00018	8.01%
Fe 273.955	92.0	0.0055	mg/L	0.00016	0.0055	mg/L	0.00016	2.84%
K 766.490	-154.4	-0.0585	mg/L	0.06209	-0.0585	mg/L	0.06209	106.20%
Mg 279.077	5.7	0.0253	mg/L	0.00075	0.0253	mg/L	0.00075	2.98%
Mn 257.610	336.1	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.51%
Mo 202.031	11.8	0.0026	mg/L	0.00073	0.0026	mg/L	0.00073	27.60%
QC value less than the lower limit for Mo 202.031				Recovery = 0.26%				
Na 589.592	249.5	0.0420	mg/L	0.04270	0.0420	mg/L	0.04270	101.67%
Na 330.237	-6.6	-0.9144	mg/L	1.74551	-0.9144	mg/L	1.74551	190.89%
Ni 231.604	2.4	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	27.15%
Pb 220.353	57.4	0.0029	mg/L	0.00060	0.0029	mg/L	0.00060	20.43%
Sb 206.836	2.6	0.0024	mg/L	0.00433	0.0024	mg/L	0.00433	180.88%
QC value less than the lower limit for Sb 206.836				Recovery = 0.24%				
Se 196.026	-29.0	-0.0037	mg/L	0.00632	-0.0037	mg/L	0.00632	170.44%
Sn 189.927	2.0	0.0007	mg/L	0.00052	0.0007	mg/L	0.00052	79.16%
Sr 407.771	359.0	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	25.17%
Sr 421.552	154.1	0.0006	mg/L	0.00057	0.0006	mg/L	0.00057	89.22%
Ti 334.940	85.9	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.99%
Tl 190.801	17.3	0.0031	mg/L	0.00253	0.0031	mg/L	0.00253	80.87%
V 290.880	51.5	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	104.66%
W 207.912	-4.2	-0.0017	mg/L	0.00051	-0.0017	mg/L	0.00051	30.38%
Y 371.029	1709.5						81.60	4.77%
Zn 206.200	10.6	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.37%
P 213.617	3.6	0.0027	mg/L	0.00032	0.0027	mg/L	0.00032	12.16%
Si 251.611	169.1	0.0043	mg/L	0.00084	0.0043	mg/L	0.00084	19.46%
Li 670.784	440.2	0.0067	mg/L	0.00509	0.0067	mg/L	0.00509	75.86%
Li 610.362	-347.8	-0.0504	mg/L	0.01684	-0.0504	mg/L	0.01684	33.45%
S 181.975	-3.6	-0.0149	mg/L	0.02558	-0.0149	mg/L	0.02558	171.16%

QC Failed. Continue with analysis.

Sequence No.: 48
Sample ID: ICP_CCV(7-6-12)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/17/2012 1:30:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	65257.0	0.5026	mg/L	0.00165	0.5026	mg/L	0.00165	0.33%
QC value within limits for Ag 328.068 Recovery = 100.52%								
Al 308.215	35665.9	1.040	mg/L	0.0015	1.040	mg/L	0.0015	0.15%
QC value within limits for Al 308.215 Recovery = 104.01%								
As 188.979	5423.1	0.9794	mg/L	0.00948	0.9794	mg/L	0.00948	0.97%
QC value within limits for As 188.979 Recovery = 97.94%								
B 249.677	79606.2	0.9005	mg/L	0.00687	0.9005	mg/L	0.00687	0.76%
QC value within limits for B 249.677 Recovery = 90.05%								
Ba 233.527	109601.7	1.064	mg/L	0.0064	1.064	mg/L	0.0064	0.60%
QC value within limits for Ba 233.527 Recovery = 106.40%								
Be 313.107	2176666.2	0.9834	mg/L	0.03389	0.9834	mg/L	0.03389	3.45%
QC value within limits for Be 313.107 Recovery = 98.34%								
Bi 223.061	-45.0	-0.0207	mg/L	0.00497	-0.0207	mg/L	0.00497	23.99%
Bi 190.171	5.8	0.0072	mg/L	0.00327	0.0072	mg/L	0.00327	45.51%
Ca 315.887	2401.4	1.185	mg/L	0.0229	1.185	mg/L	0.0229	1.93%
Ca 317.933	2848.8	1.189	mg/L	0.0160	1.189	mg/L	0.0160	1.34%
Cd 214.440	43993.4	0.9925	mg/L	0.01041	0.9925	mg/L	0.01041	1.05%
QC value within limits for Cd 214.440 Recovery = 99.25%								
Co 228.616	25912.6	1.015	mg/L	0.0083	1.015	mg/L	0.0083	0.82%
QC value within limits for Co 228.616 Recovery = 101.49%								
Cr 267.716	40299.4	1.044	mg/L	0.0049	1.044	mg/L	0.0049	0.47%
QC value within limits for Cr 267.716 Recovery = 104.39%								
Cu 324.752	296078.3	0.9940	mg/L	0.00376	0.9940	mg/L	0.00376	0.38%
QC value within limits for Cu 324.752 Recovery = 99.40%								
Fe 238.204	41517.3	1.053	mg/L	0.0038	1.053	mg/L	0.0038	0.36%
QC value within limits for Fe 238.204 Recovery = 105.33%								
Fe 273.955	17052.2	1.024	mg/L	0.0052	1.024	mg/L	0.0052	0.51%
QC value within limits for Fe 273.955 Recovery = 102.42%								
K 766.490	29674.0	11.23	mg/L	0.203	11.23	mg/L	0.203	1.81%
Mg 279.077	261.0	1.166	mg/L	0.0172	1.166	mg/L	0.0172	1.47%
Mn 257.610	430640.0	1.002	mg/L	0.0356	1.002	mg/L	0.0356	3.55%
QC value within limits for Mn 257.610 Recovery = 100.24%								
Mo 202.031	4473.9	1.003	mg/L	0.0007	1.003	mg/L	0.0007	0.07%
QC value within limits for Mo 202.031 Recovery = 100.31%								
Na 589.592	7021.5	1.182	mg/L	0.0575	1.182	mg/L	0.0575	4.86%
Na 330.237	-13.6	-1.885	mg/L	1.7518	-1.885	mg/L	1.7518	92.95%
Ni 231.604	19361.8	1.033	mg/L	0.0022	1.033	mg/L	0.0022	0.21%
QC value within limits for Ni 231.604 Recovery = 103.31%								
Pb 220.353	20445.2	1.040	mg/L	0.0383	1.040	mg/L	0.0383	3.69%
QC value within limits for Pb 220.353 Recovery = 103.99%								
Sb 206.836	1033.7	0.9411	mg/L	0.00776	0.9411	mg/L	0.00776	0.82%
QC value within limits for Sb 206.836 Recovery = 94.11%								
Se 196.026	7917.5	1.011	mg/L	0.0142	1.011	mg/L	0.0142	1.41%
QC value within limits for Se 196.026 Recovery = 101.07%								
Sn 189.927	-9.4	-0.0031	mg/L	0.00020	-0.0031	mg/L	0.00020	6.45%
Sr 407.771	427036.4	0.9927	mg/L	0.01420	0.9927	mg/L	0.01420	1.43%
QC value within limits for Sr 407.771 Recovery = 99.27%								
Sr 421.552	240545.4	1.001	mg/L	0.0011	1.001	mg/L	0.0011	0.11%
QC value within limits for Sr 421.552 Recovery = 100.05%								
Ti 334.940	372014.6	1.011	mg/L	0.0406	1.011	mg/L	0.0406	4.02%
QC value within limits for Ti 334.940 Recovery = 101.06%								
Tl 190.801	5751.2	1.040	mg/L	0.0078	1.040	mg/L	0.0078	0.75%
QC value within limits for Tl 190.801 Recovery = 104.01%								
V 290.880	156198.4	1.011	mg/L	0.0076	1.011	mg/L	0.0076	0.75%
QC value within limits for V 290.880 Recovery = 101.10%								
W 207.912	17.2	0.0070	mg/L	0.00069	0.0070	mg/L	0.00069	9.86%
Y 371.029	1336.0						139.49	10.44%
Zn 206.200	14697.2	0.9986	mg/L	0.00221	0.9986	mg/L	0.00221	0.22%
QC value within limits for Zn 206.200 Recovery = 99.86%								
P 213.617	-1849.1	-1.360	mg/L	0.1221	-1.360	mg/L	0.1221	8.98%
Si 251.611	39014.3	0.9946	mg/L	0.00687	0.9946	mg/L	0.00687	0.69%
QC value within limits for Si 251.611 Recovery = 99.46%								
Li 670.784	67805.7	1.034	mg/L	0.0002	1.034	mg/L	0.0002	0.01%
[illegible]	[illegible]	0.9863	mg/L	0.10347	0.9863	mg/L	[illegible]	[illegible]

EPA 8260B

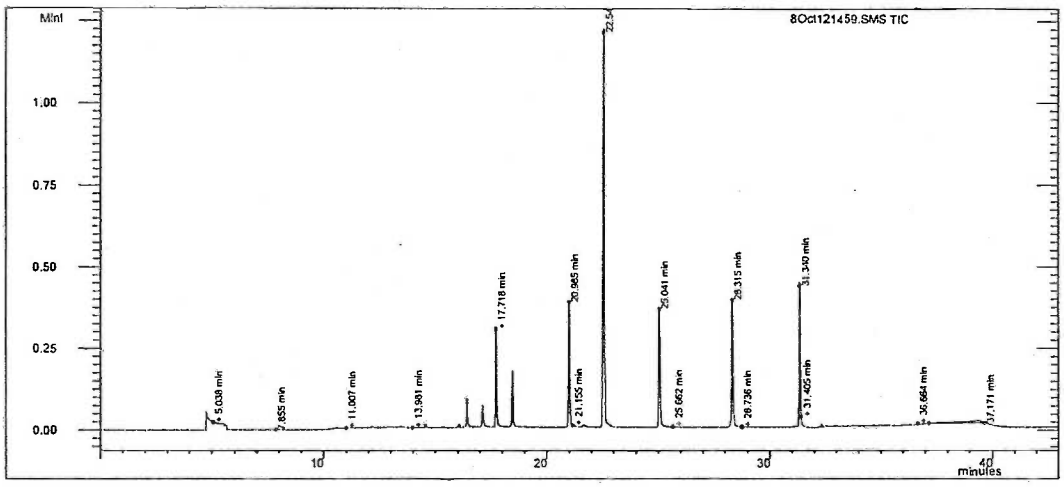
Volatile Organic Compounds + Oxygenates

ARCADIS	Sample ID	Date	Time	MB Date	MB Time	LCS Date	LCS Tim	LCSD Date	LCSD Tim	MS Date	MS Time	MSD Date	MSD Tim	QC Batch #
311877														
1	3856R	10/17/2012	8:15	10/16/2012	16:45	10/16/2012	15:13	10/17/2012	16:13	10/17/2012	0:28	10/17/2012	1:14	QC1130649
2	B-1-CW27	10/17/2012	7:28	10/16/2012	16:45	10/16/2012	15:13	10/17/2012	16:13	10/17/2012	0:28	10/17/2012	1:14	QC1130649
3	3850N	10/17/2012	12:08	10/16/2012	16:45	10/16/2012	15:13	10/17/2012	16:13	10/17/2012	0:28	10/17/2012	1:14	QC1130649
4	TB101012	10/17/2012	5:55	10/16/2012	16:45	10/16/2012	15:13	10/17/2012	16:13	10/17/2012	0:28	10/17/2012	1:14	QC1130649
5	B-6-CW01	10/17/2012	6:42	10/16/2012	16:45	10/16/2012	15:13	10/17/2012	16:13	10/17/2012	0:28	10/17/2012	1:14	QC1130649

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121459.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-001_10ml-2	**Acquisition Date:**	10/17/2012 8:15:53 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.718	96.0+70.0	Fluorobenzene (IS1)	997	571243	25.000
25.041	117.0	Chlorobenzene-d5(IS2)	991	473342	25.000
31.340	152.0	1,4-Dichlorobenzene-d4(IS3)	987	267578	25.000
5.038	85.0	Dichlorodifluoromethane	924	531	0.052
5.725	47.0+49.0+51.0	Chloromethane	605		N/A
6.134	62.0+64.0	Vinyl Chloride	877		N/A
7.435	94.0	Bromomethane	621		N/A
7.855	49.0+45.0	Chloroethane	678		N/A
8.753	101.0+103.0	Trichlorofluoromethane	930	627	0.032
9.896	59.0	Ethyl ether	897	102	0.045
10.554	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	990	2199	0.145
10.607	61.0+96.0+98.0	1,1-Dichloroethene	993	7255	0.304
11.038	55.0+56.0	Acrolein	204		N/A
11.007	43.0+58.0	Acetone	450	1231	1.746
11.110	142.0	Iodomethane	957	291	0.023
11.266	76.0	Carbon disulfide	708	667	0.051
11.818	41.0+40.0	Acetonitrile	432		N/A
11.817	41.0+39.0	Allyl chloride	712		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	151		N/A
12.190	49.0	Methylene Chloride	834	2841	0.228
12.701	59.0	tert-Butanol	664		N/A
12.853	73.0	Methyl-tert-butyl-ether (MTBE)	955	834	0.111
12.877	61.0+96.0	t-1,2-Dichloroethene	839	1379	0.072

10/17/12

ALAB : 00893

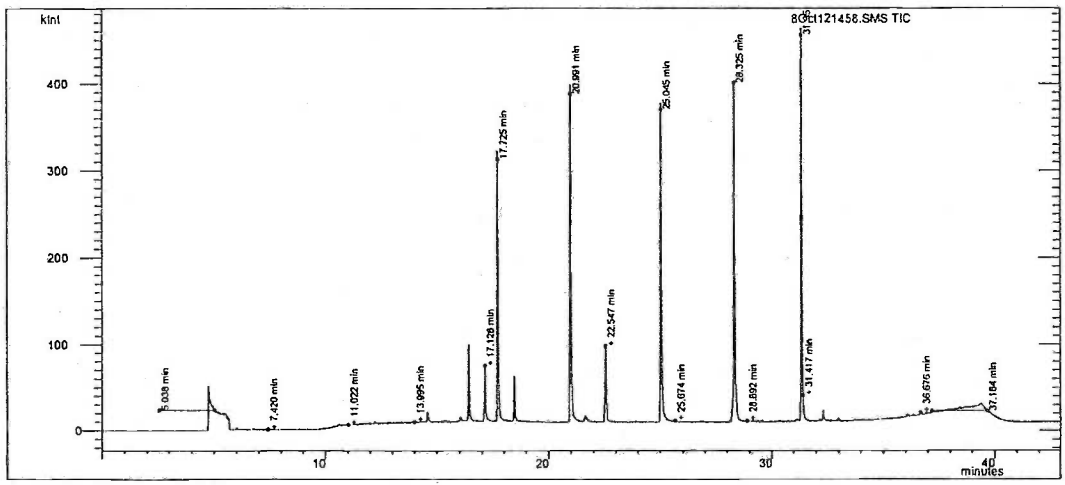
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	452		N/A
13.472	55.9+41.0	n-Hexane	653		N/A
13.981	63.0	1,1-Dichloroethane	950	908	0.073
14.018	45.0	Isopropyl ether	814	326	0.018
14.176	53.0	Chloroprene	478		N/A
14.042	43.0	Vinyl acetate	751		N/A
14.880	59.0	Ethyl-tert-butyl-ether	536	291	0.017
15.320	77.0	2,2-Dichloropropane	453		N/A
15.369	96.0	c-1,2-Dichloroethene	852	1642	0.251
15.537	43.0+72.0	2-Butanone (MEK)	391	76	0.086
15.609	54.0+55.0	Propionitrile	167		N/A
15.911	130.0+49.0	Bromochloromethane	888	481	0.063
15.692	39.0+41.0+71.0	Tetrahydrofuran	457		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	525		N/A
16.060	83.0+85.0	Chloroform	993	17387	0.888
16.371	97.0+99.0	1,1,1-Trichloroethane	715	555	0.022
16.407	111.0	Dibromofluoromethane (Surr1)	997	94184	22.828
16.710	117.0+119.0	Carbon Tetrachloride	965	831	0.039
16.734	75.0	1,1-Dichloropropene	845		N/A
17.016	41.0+39.0	Isobutyl alcohol	675		N/A
17.119	65.0	1,2-Dichloroethane-d4 (Surr2)	996	106710	23.247
17.174	78.0	Benzene	691	1035	0.052
17.290	62.0+64.0	1,2-Dichloroethane	570	849	0.093
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	640		N/A
18.438	130.0+132.0+95.0	Trichloroethene	999	261706	11.664
18.934	63.0+65.0	1,2-Dichloropropane	607	395	0.066
18.929	41.0+39.0	Methyl methacrylate	508	1652	0.264
19.091	88.0	1,4-Dioxane	670		N/A
19.241	93.0+174.0	Dibromomethane	921	377	0.066
19.513	83.0+85.0	Bromodichloromethane	891		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	643		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	428		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	251		N/A
20.985	98.0	Toluene-d8 (Surr3)	996	686537	25.199
21.155	92.0+91.0	Toluene	884	2999	0.044
21.721	75.0+77.0	t-1,3-Dichloropropene	489		N/A
21.740	69.0	Ethyl methacrylate	423		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	879		N/A
22.540	164.0+166.0	Tetrachloroethene	991	364996	135.005
22.704	76.0+41.0	1,3-Dichloropropane	557		N/A
22.778	43.0+58.0+100.0	2-Hexanone	410		N/A
23.402	129.0+127.0	Dibromochloromethane	363		N/A
23.807	107.0+109.0	1,2-Dibromoethane	824		N/A
24.895	91.0	1-Chlorohexane	269		N/A
25.136	112.0+114.0	Chlorobenzene	628	893	0.023
25.339	106.0+91.0	Ethylbenzene	898	1224	0.014
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	731		N/A
25.662	106.0+91.0	p,m-Xylenes	911	2886	0.033
26.824	106.0+91.0	o-Xylene	923	842	0.010
26.860	104.0+78.0	Styrene	819		N/A
27.543	171.0+173.0+175.0	Bromoform	377		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	842		N/A
28.315	95.0	p-Bromofluorobenzene (Surr4)	993	336562	24.333
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	760		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	526		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	259		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	116		N/A
28.774	77.0+158.0	Bromobenzene	928		N/A
28.892	91.0+120.0	n-Propylbenzene	875		N/A
29.223	91.0+126.0	2-Chlorotoluene	814		N/A
29.344	105.0+120.0	1,3,5-Trimethylbenzene	804	1340	0.012
29.532	91.0+126.0	4-Chlorotoluene	915	1572	0.023
30.193	119.0+91.0	tert-Butylbenzene	667		N/A
30.357	105.0+120.0	1,2,4-Trimethylbenzene	903	2745	0.027
30.364	117.0	Pentachloroethane	640		N/A
30.753	105.0+134.0	sec-Butylbenzene	878		N/A
31.101	119.0	4-Isopropyltoluene	888	1886	0.024
31.199	146.0+148.0	1,3-Dichlorobenzene	960	2074	0.045
31.405	146.0+148.0	1,4-Dichlorobenzene	474	2255	0.056
31.910	91.0	Benzyl Chloride	576		N/A
32.152	91.0+134.0	n-Butylbenzene	889	2426	0.027
32.365	146.0+148.0	1,2-Dichlorobenzene	903	1753	0.047
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	559		N/A
36.079	180.0+182.0	1,2,4-Trichlorobenzene	882	2634	0.091
36.329	225.0+226.0	Hexachlorobutadiene	956	1049	0.058
36.664	128.0	Naphthalene	981	3131	0.204
37.171	180.0+182.0	1,2,3-Trichlorobenzene	977	2206	0.087

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121458.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-002_10ml-4	Acquisition Date:	10/17/2012 7:28:53 AM
Inj. Notes:	PH<2	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.725	96.0+70.0	Fluorobenzene (IS1)	998	571575	25.000
25.045	117.0	Chlorobenzene-d5(IS2)	991	463539	25.000
31.352	152.0	1,4-Dichlorobenzene-d4(IS3)	986	274407	25.000
5.038	85.0	Dichlorodifluoromethane	896	342	0.033
5.725	47.0+49.0+51.0	Chloromethane	687		N/A
6.134	62.0+64.0	Vinyl Chloride	871		N/A
7.420	94.0	Bromomethane	719	235	0.115
7.855	49.0+45.0	Chloroethane	765		N/A
8.774	101.0+103.0	Trichlorofluoromethane	949	602	0.031
9.902	59.0	Ethyl ether	833	56	0.025
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	921		N/A
10.623	61.0+96.0+98.0	1,1-Dichloroethene	945	4121	0.173
11.038	55.0+56.0	Acrolein	289		N/A
11.022	43.0+58.0	Acetone	844	947	1.342
11.124	142.0	Iodomethane	918	290	0.023
11.285	76.0	Carbon disulfide	642	610	0.046
11.818	41.0+40.0	Acetonitrile	541		N/A
11.817	41.0+39.0	Allyl chloride	776		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	99		N/A
12.207	49.0	Methylene Chloride	952	1957	0.157
12.701	59.0	tert-Butanol	370		N/A
12.868	73.0	Methyl-tert-butyl-ether (MTBE)	729	313	0.042
12.896	61.0+96.0	t-1,2-Dichloroethene	810	1138	0.059

ALAB : 08054

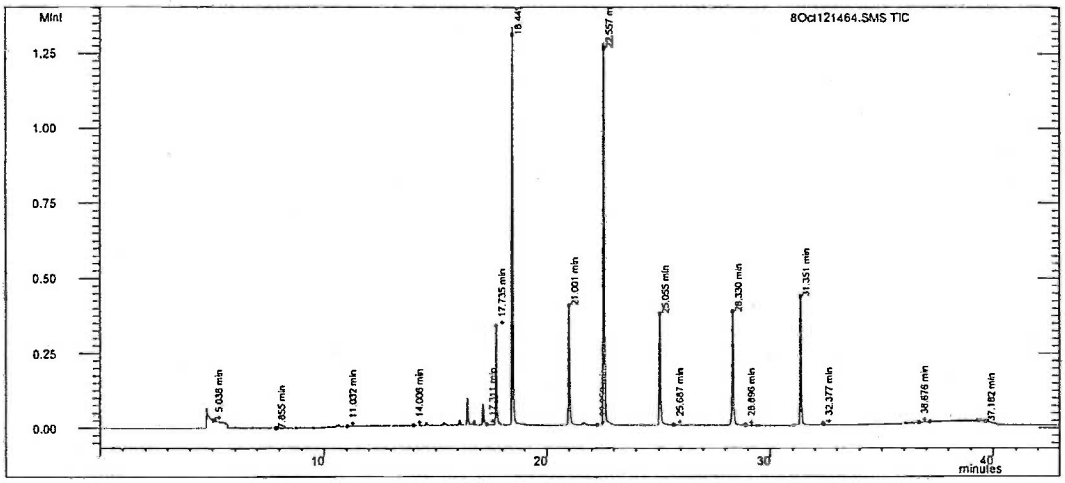
RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.844	53.0	Acrylonitrile	301	37	0.101
13.472	55.9+41.0	n-Hexane	722		N/A
13.995	63.0	1,1-Dichloroethane	933	949	0.076
14.049	45.0	Isopropyl ether	784		N/A
14.176	53.0	Chloroprene	256		N/A
14.042	43.0	Vinyl acetate	452		N/A
14.885	59.0	Ethyl-tert-butyl-ether	367		N/A
15.302	77.0	2,2-Dichloropropane	752	466	0.051
15.386	96.0	c-1,2-Dichloroethene	955	1092	0.167
15.663	43.0+72.0	2-Butanone (MEK)	344	140	0.159
15.609	54.0+55.0	Propionitrile	500		N/A
15.943	130.0+49.0	Bromochloromethane	885	496	0.065
15.692	39.0+41.0+71.0	Tetrahydrofuran	597		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	576		N/A
16.072	83.0+85.0	Chloroform	958	8022	0.410
16.374	97.0+99.0	1,1,1-Trichloroethane	629	485	0.019
16.415	111.0	Dibromofluoromethane (Surr1)	995	97107	23.523
16.727	117.0+119.0	Carbon Tetrachloride	804		N/A
16.734	75.0	1,1-Dichloropropene	871		N/A
17.016	41.0+39.0	Isobutyl alcohol	660		N/A
17.128	65.0	1,2-Dichloroethane-d4 (Surr2)	997	109219	23.780
17.184	78.0	Benzene	640	895	0.045
17.301	62.0+64.0	1,2-Dichloroethane	571	761	0.083
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	608		N/A
18.449	130.0+132.0+95.0	Trichloroethene	999	83497	3.800
18.944	63.0+65.0	1,2-Dichloropropane	796	418	0.072
18.939	41.0+39.0	Methyl methacrylate	517		N/A
19.091	88.0	1,4-Dioxane	300		N/A
19.264	93.0+174.0	Dibromomethane	898	396	0.070
19.518	83.0+85.0	Bromodichloromethane	840	661	0.054
20.682	63.0+43.0	2-Chloroethyl vinyl ether	662		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	412		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	527		N/A
20.991	98.0	Toluene-d8 (Surr3)	996	676472	25.355
21.166	92.0+91.0	Toluene	953	3049	0.046
21.721	75.0+77.0	t-1,3-Dichloropropene	338		N/A
21.740	69.0	Ethyl methacrylate	364		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	793		N/A
22.547	164.0+166.0	Tetrachloroethene	991	23681	8.945
22.704	76.0+41.0	1,3-Dichloropropane	649		N/A
22.778	43.0+58.0+100.0	2-Hexanone	520		N/A
23.402	129.0+127.0	Dibromochloromethane	578		N/A
23.807	107.0+109.0	1,2-Dibromoethane	763		N/A
24.895	91.0	1-Chlorohexane	276		N/A
25.128	112.0+114.0	Chlorobenzene	577	799	0.021
25.343	106.0+91.0	Ethylbenzene	914	1079	0.012
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	546		N/A
25.674	106.0+91.0	p,m-Xylenes	931	2702	0.030
26.801	106.0+91.0	o-Xylene	880		N/A
26.860	104.0+78.0	Styrene	809		N/A
27.543	171.0+173.0+175.0	Bromoform	729		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.787	105.0+120.0	Isopropylbenzene	839	740	0.007
28.325	95.0	p-Bromofluorobenzene (Surr4)	990	336278	23.707
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	691		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	445		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	284		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	258		N/A
28.774	77.0+158.0	Bromobenzene	931		N/A
28.892	91.0+120.0	n-Propylbenzene	826		N/A
29.223	91.0+126.0	2-Chlorotoluene	896		N/A
29.352	105.0+120.0	1,3,5-Trimethylbenzene	882	1703	0.015
29.498	91.0+126.0	4-Chlorotoluene	908		N/A
30.220	119.0+91.0	tert-Butylbenzene	603	1272	0.009
30.366	105.0+120.0	1,2,4-Trimethylbenzene	962	2402	0.023
30.364	117.0	Pentachloroethane	528		N/A
30.753	105.0+134.0	sec-Butylbenzene	896		N/A
31.114	119.0	4-Isopropyltoluene	860	2100	0.026
31.206	146.0+148.0	1,3-Dichlorobenzene	950	2040	0.044
31.417	146.0+148.0	1,4-Dichlorobenzene	465	2144	0.051
31.910	91.0	Benzyl Chloride	422		N/A
32.165	91.0+134.0	n-Butylbenzene	955	2966	0.032
32.380	146.0+148.0	1,2-Dichlorobenzene	900	1624	0.043
34.276	75.0+157.0	1,2-Dibromo-3-chloropropane	615	67	0.025
36.091	180.0+182.0	1,2,4-Trichlorobenzene	894	2664	0.089
36.338	225.0+226.0	Hexachlorobutadiene	956	1061	0.057
36.676	128.0	Naphthalene	959	3477	0.221
37.184	180.0+182.0	1,2,3-Trichlorobenzene	977	2123	0.082

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121464.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-003_10ml-7	Acquisition Date:	10/17/2012 12:08:48 PM
Inj. Notes:	PH<2	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.735	96.0+70.0	Fluorobenzene (IS1)	998	595537	25.000
25.055	117.0	Chlorobenzene-d5(IS2)	991	491579	25.000
31.351	152.0	1,4-Dichlorobenzene-d4(IS3)	987	265795	25.000
5.038	85.0	Dichlorodifluoromethane	878	682	0.063
5.725	47.0+49.0+51.0	Chloromethane	558		N/A
6.134	62.0+64.0	Vinyl Chloride	734		N/A
7.451	94.0	Bromomethane	698	113	0.053
7.855	49.0+45.0	Chloroethane	520		N/A
8.778	101.0+103.0	Trichlorofluoromethane	977	707	0.035
9.918	59.0	Ethyl ether	818	57	0.024
10.581	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	989	4062	0.257
10.629	61.0+96.0+98.0	1,1-Dichloroethene	994	10993	0.442
11.038	55.0+56.0	Acrolein	233		N/A
11.032	43.0+58.0	Acetone	721	1265	1.721
11.133	142.0	Iodomethane	918	242	0.018
11.289	76.0	Carbon disulfide	476	473	0.035
11.818	41.0+40.0	Acetonitrile	448		N/A
11.817	41.0+39.0	Allyl chloride	484		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	101		N/A
12.212	49.0	Methylene Chloride	810	1759	0.135
12.717	59.0	tert-Butanol	657	324	1.390
12.872	73.0	Methyl-tert-butyl-ether (MTBE)	847	527	0.067
12.901	61.0+96.0	t-1,2-Dichloroethene	901	2433	0.121

10/22/12

ALAB : 66696

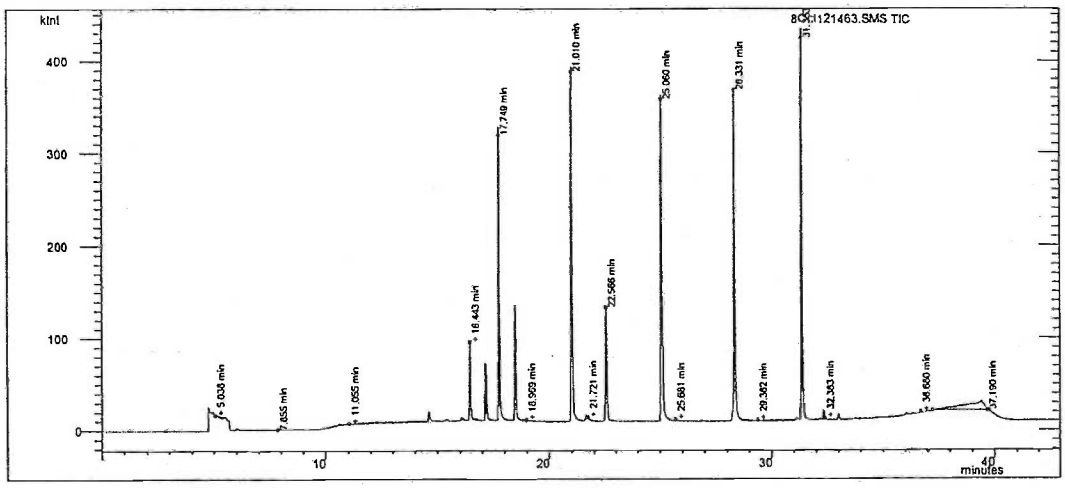
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	266		N/A
13.472	55.9+41.0	n-Hexane	801		N/A
14.006	63.0	1,1-Dichloroethane	953	1217	0.094
14.047	45.0	Isopropyl ether	744	679	0.036
14.176	53.0	Chloroprene	458		N/A
14.042	43.0	Vinyl acetate	880		N/A
14.895	59.0	Ethyl-tert-butyl-ether	556	379	0.021
15.304	77.0	2,2-Dichloropropane	593	384	0.041
15.387	96.0	c-1,2-Dichloroethene	958	7712	1.129
15.301	43.0+72.0	2-Butanone (MEK)	310	118	0.128
15.546	54.0+55.0	Propionitrile	441	83	0.076
15.944	130.0+49.0	Bromochloromethane	784	398	0.050
15.692	39.0+41.0+71.0	Tetrahydrofuran	484		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	356		N/A
16.079	83.0+85.0	Chloroform	978	29301	1.436
16.394	97.0+99.0	1,1,1-Trichloroethane	910	2097	0.080
16.425	111.0	Dibromofluoromethane (Surr1)	991	99253	23.075
16.725	117.0+119.0	Carbon Tetrachloride	993	30330	1.366
16.734	75.0	1,1-Dichloropropene	395		N/A
17.016	41.0+39.0	Isobutyl alcohol	502		N/A
17.137	65.0	1,2-Dichloroethane-d4 (Surr2)	996	113443	23.706
17.190	78.0	Benzene	717	1272	0.062
17.311	62.0+64.0	1,2-Dichloroethane	858	4105	0.429
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	623		N/A
18.449	130.0+132.0+95.0	Trichloroethene	999	2.182E6	93.658
18.954	63.0+65.0	1,2-Dichloropropane	873	671	0.109
18.939	41.0+39.0	Methyl methacrylate	545		N/A
19.091	88.0	1,4-Dioxane	370		N/A
19.261	93.0+174.0	Dibromomethane	847	349	0.059
19.526	83.0+85.0	Bromodichloromethane	926	968	0.074
20.682	63.0+43.0	2-Chloroethyl vinyl ether	557		N/A
20.588	75.0+77.0+39.0	c-1,3-Dichloropropene	485	201	0.012
20.679	43.0+58.0	4-Methyl-2-pentanone	304		N/A
21.001	98.0	Toluene-d8 (Surr3)	996	707786	25.016
21.175	92.0+91.0	Toluene	899	2634	0.038
21.721	75.0+77.0	t-1,3-Dichloropropene	102		N/A
21.740	69.0	Ethyl methacrylate	303		N/A
22.259	97.0+99.0	1,1,2-Trichloroethane	959	836	0.128
22.557	164.0+166.0	Tetrachloroethene	990	391182	139.323
22.704	76.0+41.0	1,3-Dichloropropane	153		N/A
22.778	43.0+58.0+100.0	2-Hexanone	484		N/A
23.402	129.0+127.0	Dibromochloromethane	746		N/A
23.807	107.0+109.0	1,2-Dibromoethane	738		N/A
24.895	91.0	1-Chlorohexane	277		N/A
25.145	112.0+114.0	Chlorobenzene	643	825	0.021
25.352	106.0+91.0	Ethylbenzene	874	997	0.011
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	747		N/A
25.687	106.0+91.0	p,m-Xylenes	938	1917	0.022
26.801	106.0+91.0	o-Xylene	869		N/A
26.860	104.0+78.0	Styrene	865		N/A
27.543	171.0+173.0+175.0	Bromoform	195		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	783		N/A
28.330	95.0	p-Bromofluorobenzene (Surr4)	991	342608	24.936
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	725		N/A
28.896	75.0+110.0	1,2,3-Trichloropropane	951	1019	0.218
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	340		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	146		N/A
28.774	77.0+158.0	Bromobenzene	835		N/A
28.892	91.0+120.0	n-Propylbenzene	785		N/A
29.223	91.0+126.0	2-Chlorotoluene	825		N/A
29.326	105.0+120.0	1,3,5-Trimethylbenzene	924		N/A
29.498	91.0+126.0	4-Chlorotoluene	863		N/A
30.193	119.0+91.0	tert-Butylbenzene	808		N/A
30.363	105.0+120.0	1,2,4-Trimethylbenzene	937	1555	0.015
30.364	117.0	Pentachloroethane	414		N/A
30.753	105.0+134.0	sec-Butylbenzene	898		N/A
31.118	119.0	4-Isopropyltoluene	801	1547	0.020
31.208	146.0+148.0	1,3-Dichlorobenzene	947	1699	0.037
31.415	146.0+148.0	1,4-Dichlorobenzene	413	1560	0.039
31.910	91.0	Benzyl Chloride	428		N/A
32.166	91.0+134.0	n-Butylbenzene	933	1880	0.021
32.377	146.0+148.0	1,2-Dichlorobenzene	887	1434	0.039
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	386		N/A
36.088	180.0+182.0	1,2,4-Trichlorobenzene	847	1669	0.058
36.337	225.0+226.0	Hexachlorobutadiene	956	797	0.044
36.676	128.0	Naphthalene	940	1954	0.128
37.182	180.0+182.0	1,2,3-Trichlorobenzene	964	1472	0.058

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121463.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-003_1ml-7	**Acquisition Date:**	10/17/2012 11:22:22 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.749	96.0+70.0	Fluorobenzene (IS1)	997	568437	25.000
25.060	117.0	Chlorobenzene-d5(IS2)	991	467429	25.000
31.353	152.0	1,4-Dichlorobenzene-d4(IS3)	987	254158	25.000
5.038	85.0	Dichlorodifluoromethane	817	326	0.032
5.725	47.0+49.0+51.0	Chloromethane	599		N/A
6.134	62.0+64.0	Vinyl Chloride	891		N/A
7.435	94.0	Bromomethane	700		N/A
7.855	49.0+45.0	Chloroethane	586		N/A
8.803	101.0+103.0	Trichlorofluoromethane	921	561	0.029
9.955	59.0	Ethyl ether	702	63	0.028
10.603	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	957	704	0.047
10.659	61.0+96.0+98.0	1,1-Dichloroethene	980	2736	0.115
11.038	55.0+56.0	Acrolein	260		N/A
11.055	43.0+58.0	Acetone	598	1342	1.912
11.161	142.0	Iodomethane	952	218	0.017
11.315	76.0	Carbon disulfide	641	644	0.049
11.818	41.0+40.0	Acetonitrile	209		N/A
11.817	41.0+39.0	Allyl chloride	750		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	179		N/A
12.241	49.0	Methylene Chloride	761	2142	0.173
12.701	59.0	tert-Butanol	523		N/A
12.911	73.0	Methyl-tert-butyl-ether (MTBE)	813	204	0.027
12.929	61.0+96.0	t-1,2-Dichloroethene	867	1181	0.062

ALAB : 60098

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	727		N/A
13.472	55.9+41.0	n-Hexane	551		N/A
14.029	63.0	1,1-Dichloroethane	953	828	0.057
14.049	45.0	Isopropyl ether	700		N/A
14.176	53.0	Chloroprene	57		N/A
14.042	43.0	Vinyl acetate	885		N/A
14.685	59.0	Ethyl-tert-butyl-ether	552		N/A
15.320	77.0	2,2-Dichloropropane	847		N/A
15.419	96.0	c-1,2-Dichloroethene	933	1342	0.206
15.464	43.0+72.0	2-Butanone (MEK)	155		N/A
15.591	54.0+55.0	Propionitrile	494	43	0.042
15.963	130.0+49.0	Bromochloromethane	798	365	0.048
15.692	39.0+41.0+71.0	Tetrahydrofuran	443		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	586		N/A
16.098	83.0+85.0	Chloroform	903	4209	0.216
16.408	97.0+99.0	1,1,1-Trichloroethane	753	710	0.028
16.443	111.0	Dibromofluoromethane (Surr1)	991	95512	23.264
16.739	117.0+119.0	Carbon Tetrachloride	990	2698	0.127
16.734	75.0	1,1-Dichloropropene	828		N/A
17.016	41.0+39.0	Isobutyl alcohol	599		N/A
17.153	65.0	1,2-Dichloroethane-d4 (Surr2)	996	103158	22.585
17.213	78.0	Benzene	703	933	0.048
17.328	62.0+64.0	1,2-Dichloroethane	611	984	0.108
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	666		N/A
18.470	130.0+132.0+95.0	Trichloroethene	999	194556	8.781
18.969	63.0+65.0	1,2-Dichloropropane	767	393	0.067
18.939	41.0+39.0	Methyl methacrylate	627		N/A
19.091	88.0	1,4-Dioxane	346		N/A
19.282	93.0+174.0	Dibromomethane	877	299	0.053
19.513	83.0+85.0	Bromodichloromethane	857		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	481		N/A
20.557	75.0+77.0+39.0	c-1,3-Dichloropropene	470	376	0.024
20.679	43.0+58.0	4-Methyl-2-pentanone	131		N/A
21.010	98.0	Toluene-d8 (Surr3)	996	679466	25.255
21.176	92.0+91.0	Toluene	909	3594	0.054
21.721	75.0+77.0	t-1,3-Dichloropropene	433		N/A
21.740	69.0	Ethyl methacrylate	320		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	924		N/A
22.566	164.0+166.0	Tetrachloroethene	992	33551	12.567
22.704	76.0+41.0	1,3-Dichloropropane	417		N/A
22.778	43.0+58.0+100.0	2-Hexanone	418		N/A
23.402	129.0+127.0	Dibromochloromethane	421		N/A
23.807	107.0+109.0	1,2-Dibromoethane	683		N/A
24.895	91.0	1-Chlorohexane	257		N/A
25.152	112.0+114.0	Chlorobenzene	547	582	0.015
25.356	106.0+91.0	Ethylbenzene	905	1283	0.015
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	555		N/A
25.681	106.0+91.0	p,m-Xylenes	939	3507	0.042
26.842	106.0+91.0	o-Xylene	868	1303	0.016
26.860	104.0+78.0	Styrene	833		N/A
27.543	171.0+173.0+175.0	Bromoform	244		N/A

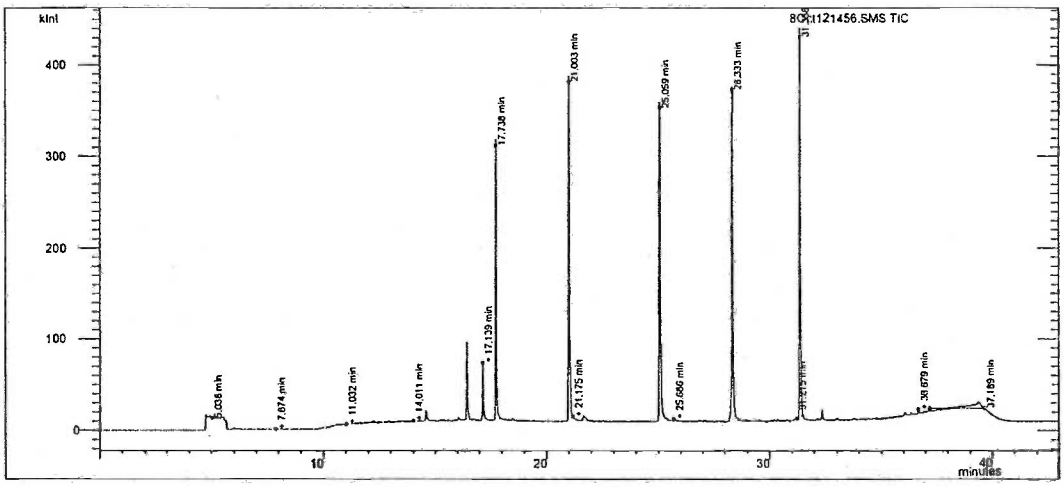
125.67

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	858		N/A
28.331	95.0	p-Bromofluorobenzene (Surr4)	984	322169	24.522
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	584		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	605		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	307		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	145		N/A
28.774	77.0+158.0	Bromobenzene	859		N/A
28.892	91.0+120.0	n-Propylbenzene	856		N/A
29.223	91.0+126.0	2-Chlorotoluene	847		N/A
29.362	105.0+120.0	1,3,5-Trimethylbenzene	823	1118	0.010
29.498	91.0+126.0	4-Chlorotoluene	883		N/A
30.193	119.0+91.0	tert-Butylbenzene	648		N/A
30.367	105.0+120.0	1,2,4-Trimethylbenzene	946	2348	0.024
30.364	117.0	Pentachloroethane	424		N/A
30.753	105.0+134.0	sec-Butylbenzene	905		N/A
31.124	119.0	4-Isopropyltoluene	836	1765	0.023
31.207	146.0+148.0	1,3-Dichlorobenzene	929	1385	0.032
31.422	146.0+148.0	1,4-Dichlorobenzene	428	1209	0.031
31.910	91.0	Benzyl Chloride	595		N/A
32.164	91.0+134.0	n-Butylbenzene	895	2018	0.024
32.383	146.0+148.0	1,2-Dichlorobenzene	839	1140	0.032
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	501		N/A
36.089	180.0+182.0	1,2,4-Trichlorobenzene	841	1808	0.065
36.340	225.0+226.0	Hexachlorobutadiene	973	803	0.047
36.680	128.0	Naphthalene	961	2361	0.162
37.190	180.0+182.0	1,2,3-Trichlorobenzene	976	1478	0.061

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121456.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-004_10ml-2	**Acquisition Date:**	10/17/2012 5:55:17 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.738	96.0+70.0	Fluorobenzene (IS1)	997	542551	25.000
25.059	117.0	Chlorobenzene-d5(IS2)	991	447710	25.000
31.358	152.0	1,4-Dichlorobenzene-d4(IS3)	987	256588	25.000
5.038	85.0	Dichlorodifluoromethane	820	325	0.033
5.725	47.0+49.0+51.0	Chloromethane	269		N/A
6.132	62.0+64.0	Vinyl Chloride	914	218	0.026
7.411	94.0	Bromomethane	781	64	0.033
7.874	49.0+45.0	Chloroethane	402	32	0.054
8.778	101.0+103.0	Trichlorofluoromethane	949	662	0.036
9.932	59.0	Ethyl ether	598		N/A
10.574	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	905	348	0.024
10.632	61.0+96.0+98.0	1,1-Dichloroethene	977	2035	0.090
11.038	55.0+56.0	Acrolein	374		N/A
11.032	43.0+58.0	Acetone	600	1218	1.818
11.137	142.0	Iodomethane	954	344	0.028
11.291	76.0	Carbon disulfide	772	595	0.048
11.818	41.0+40.0	Acetonitrile	650		N/A
11.817	41.0+39.0	Allyl chloride	794		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	299		N/A
12.217	49.0	Methylene Chloride	800	2543	0.215
12.701	59.0	tert-Butanol	446		N/A
12.886	73.0	Methyl-tert-butyl-ether (MTBE)	777	269	0.038
12.910	61.0+96.0	t-1,2-Dichloroethene	804	1237	0.068

10/22/12

ALAB : 00101

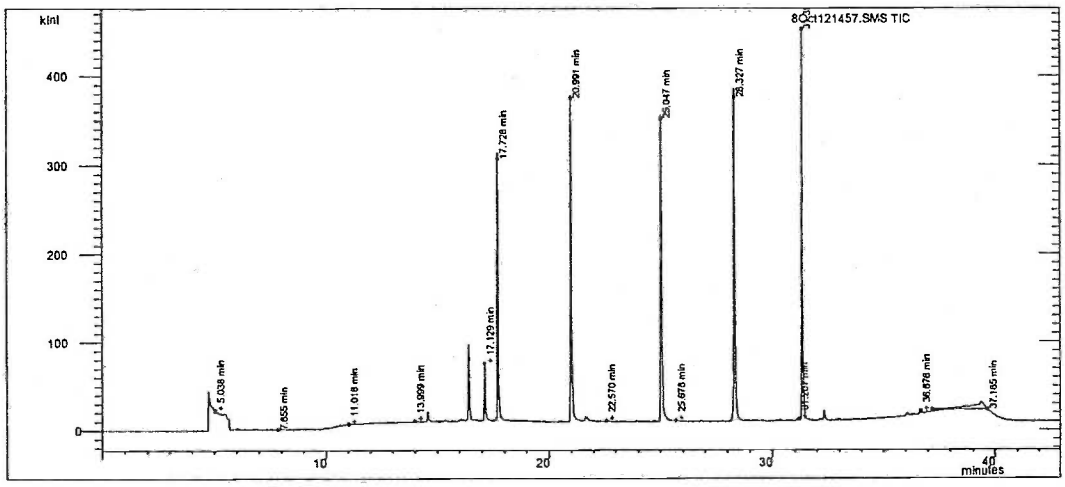
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	517		N/A
13.472	55.9+41.0	n-Hexane	506		N/A
14.011	63.0	1,1-Dichloroethane	957	1009	0.086
14.049	45.0	Isopropyl ether	704		N/A
14.176	53.0	Chloroprene	154		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.885	59.0	Ethyl-tert-butyl-ether	480		N/A
15.320	77.0	2,2-Dichloropropane	547		N/A
15.395	96.0	c-1,2-Dichloroethene	874	949	0.152
15.319	43.0+72.0	2-Butanone (MEK)	353	243	0.290
15.609	54.0+55.0	Propionitrile	183		N/A
15.947	130.0+49.0	Bromochloromethane	891	598	0.082
15.692	39.0+41.0+71.0	Tetrahydrofuran	398		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	592		N/A
16.085	83.0+85.0	Chloroform	794	2012	0.108
16.392	97.0+99.0	1,1,1-Trichloroethane	692	541	0.023
16.428	111.0	Dibromofluoromethane (Surr1)	989	93599	23.886
16.727	117.0+119.0	Carbon Tetrachloride	760		N/A
16.734	75.0	1,1-Dichloropropene	780		N/A
17.016	41.0+39.0	Isobutyl alcohol	366		N/A
17.139	65.0	1,2-Dichloroethane-d4 (Surr2)	996	106280	24.378
17.195	78.0	Benzene	652	845	0.045
17.319	62.0+64.0	1,2-Dichloroethane	558	859	0.099
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	638		N/A
18.473	130.0+132.0+95.0	Trichloroethene	983	2022	0.095
18.927	63.0+65.0	1,2-Dichloropropane	711		N/A
18.939	41.0+39.0	Methyl methacrylate	506		N/A
19.091	88.0	1,4-Dioxane	478		N/A
19.274	93.0+174.0	Dibromomethane	919	440	0.081
19.513	83.0+85.0	Bromodichloromethane	713		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	265		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	631		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	176		N/A
21.003	98.0	Toluene-d8 (Surr3)	996	645257	25.040
21.175	92.0+91.0	Toluene	960	3170	0.050
21.721	75.0+77.0	t-1,3-Dichloropropene	447		N/A
21.740	69.0	Ethyl methacrylate	318		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	825		N/A
22.543	164.0+166.0	Tetrachloroethene	949		N/A
22.704	76.0+41.0	1,3-Dichloropropane	435		N/A
22.778	43.0+58.0+100.0	2-Hexanone	292		N/A
23.402	129.0+127.0	Dibromochloromethane	534		N/A
23.807	107.0+109.0	1,2-Dibromoethane	812		N/A
24.895	91.0	1-Chlorohexane	422		N/A
25.154	112.0+114.0	Chlorobenzene	645	1014	0.028
25.364	106.0+91.0	Ethylbenzene	932	1500	0.018
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	530		N/A
25.686	106.0+91.0	p,m-Xylenes	938	3349	0.040
26.801	106.0+91.0	o-Xylene	843		N/A
26.860	104.0+78.0	Styrene	890		N/A
27.543	171.0+173.0+175.0	Bromoform	797		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	884		N/A
28.333	95.0	p-Bromofluorobenzene (Surr4)	983	322244	24.295
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	619		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	529		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	210		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	132		N/A
28.774	77.0+158.0	Bromobenzene	931		N/A
28.892	91.0+120.0	n-Propylbenzene	892		N/A
29.223	91.0+126.0	2-Chlorotoluene	893		N/A
29.364	105.0+120.0	1,3,5-Trimethylbenzene	905	2132	0.020
29.544	91.0+126.0	4-Chlorotoluene	926	2461	0.037
30.193	119.0+91.0	tert-Butylbenzene	774		N/A
30.375	105.0+120.0	1,2,4-Trimethylbenzene	952	3738	0.038
30.364	117.0	Pentachloroethane	524		N/A
30.753	105.0+134.0	sec-Butylbenzene	908		N/A
31.128	119.0	4-Isopropyltoluene	859	2649	0.035
31.215	146.0+148.0	1,3-Dichlorobenzene	973	2833	0.065
31.429	146.0+148.0	1,4-Dichlorobenzene	550	2415	0.062
31.910	91.0	Benzyl Chloride	534		N/A
32.169	91.0+134.0	n-Butylbenzene	917	3906	0.046
32.385	146.0+148.0	1,2-Dichlorobenzene	922	2105	0.059
34.281	75.0+157.0	1,2-Dibromo-3-chloropropane	696	123	0.049
36.094	180.0+182.0	1,2,4-Trichlorobenzene	869	4099	0.147
36.343	225.0+226.0	Hexachlorobutadiene	962	1070	0.062
36.679	128.0	Naphthalene	986	6347	0.432
37.189	180.0+182.0	1,2,3-Trichlorobenzene	986	3230	0.133

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121457.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	311877-005_10ml-3	**Acquisition Date:**	10/17/2012 6:42:04 AM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.728	96.0+70.0	Fluorobenzene (IS1)	997	542716	25.000
25.047	117.0	Chlorobenzene-d5(IS2)	991	445333	25.000
31.352	152.0	1,4-Dichlorobenzene-d4(IS3)	987	260915	25.000
5.038	85.0	Dichlorodifluoromethane	860	289	0.030
5.725	47.0+49.0+51.0	Chloromethane	498		N/A
6.134	62.0+64.0	Vinyl Chloride	893		N/A
7.435	94.0	Bromomethane	798		N/A
7.855	49.0+45.0	Chloroethane	298		N/A
8.761	101.0+103.0	Trichlorofluoromethane	974	599	0.032
9.901	59.0	Ethyl ether	863	56	0.026
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	900		N/A
10.620	61.0+96.0+98.0	1,1-Dichloroethene	962	2121	0.094
11.038	55.0+56.0	Acrolein	381		N/A
11.018	43.0+58.0	Acetone	413	1102	1.645
11.130	142.0	Iodomethane	946	336	0.028
11.279	76.0	Carbon disulfide	685	546	0.044
11.818	41.0+40.0	Acetonitrile	366		N/A
11.817	41.0+39.0	Allyl chloride	515		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	131		N/A
12.207	49.0	Methylene Chloride	692	1757	0.148
12.701	59.0	tert-Butanol	667		N/A
12.874	73.0	Methyl-tert-butyl-ether (MTBE)	772		N/A
12.893	61.0+96.0	t-1,2-Dichloroethene	871	1283	0.070

ALAB : 00103

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	417		N/A
13.472	55.9+41.0	n-Hexane	625		N/A
13.999	63.0	1,1-Dichloroethane	952	889	0.075
14.049	45.0	Isopropyl ether	723		N/A
14.176	53.0	Chloroprene	503		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.885	59.0	Ethyl-tert-butyl-ether	263		N/A
15.300	77.0	2,2-Dichloropropane	775	286	0.033
15.387	96.0	c-1,2-Dichloroethene	949	949	0.153
15.464	43.0+72.0	2-Butanone (MEK)	230		N/A
15.609	54.0+55.0	Propionitrile	373		N/A
15.935	130.0+49.0	Bromochloromethane	898	499	0.069
15.692	39.0+41.0+71.0	Tetrahydrofuran	390		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	465		N/A
16.073	83.0+85.0	Chloroform	903	1871	0.101
16.380	97.0+99.0	1,1,1-Trichloroethane	727	575	0.024
16.420	111.0	Dibromofluoromethane (Surr1)	996	93980	23.976
16.727	117.0+119.0	Carbon Tetrachloride	685		N/A
16.734	75.0	1,1-Dichloropropene	836		N/A
17.016	41.0+39.0	Isobutyl alcohol	712		N/A
17.129	65.0	1,2-Dichloroethane-d4 (Surr2)	996	105415	24.173
17.188	78.0	Benzene	700	1019	0.054
17.304	62.0+64.0	1,2-Dichloroethane	547	847	0.097
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	682		N/A
18.461	130.0+132.0+95.0	Trichloroethene	977	2097	0.099
18.939	63.0+65.0	1,2-Dichloropropane	917	471	0.084
18.939	41.0+39.0	Methyl methacrylate	533		N/A
19.091	88.0	1,4-Dioxane	202		N/A
19.263	93.0+174.0	Dibromomethane	885	440	0.082
19.513	83.0+85.0	Bromodichloromethane	641		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	491		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	602		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	372		N/A
20.991	98.0	Toluene-d8 (Surr3)	996	639808	24.961
21.164	92.0+91.0	Toluene	912	3563	0.056
21.721	75.0+77.0	t-1,3-Dichloropropene	445		N/A
21.740	69.0	Ethyl methacrylate	477		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	735		N/A
22.570	164.0+166.0	Tetrachloroethene	980	160	0.063
22.704	76.0+41.0	1,3-Dichloropropane	525		N/A
22.778	43.0+58.0+100.0	2-Hexanone	341		N/A
23.402	129.0+127.0	Dibromochloromethane	606		N/A
23.807	107.0+109.0	1,2-Dibromoethane	851		N/A
24.895	91.0	1-Chlorohexane	442		N/A
25.138	112.0+114.0	Chlorobenzene	637	761	0.021
25.343	106.0+91.0	Ethylbenzene	895	1362	0.016
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	527		N/A
25.678	106.0+91.0	p,m-Xylenes	954	2788	0.032
26.801	106.0+91.0	o-Xylene	872		N/A
26.860	104.0+78.0	Styrene	884		N/A
27.564	171.0+173.0+175.0	Bromoform	620	29	0.006

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.787	105.0+120.0	Isopropylbenzene	893	1196	0.013
28.327	95.0	p-Bromofluorobenzene (Surr4)	992	329508	24.431
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	625		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	466		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	268		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	222		N/A
28.785	77.0+158.0	Bromobenzene	902	809	0.026
28.914	91.0+120.0	n-Propylbenzene	839	1324	0.012
29.223	91.0+126.0	2-Chlorotoluene	846		N/A
29.354	105.0+120.0	1,3,5-Trimethylbenzene	925	1837	0.017
29.535	91.0+126.0	4-Chlorotoluene	950	2047	0.030
30.193	119.0+91.0	tert-Butylbenzene	647		N/A
30.364	105.0+120.0	1,2,4-Trimethylbenzene	932	3024	0.030
30.364	117.0	Pentachloroethane	556		N/A
30.753	105.0+134.0	sec-Butylbenzene	915		N/A
31.117	119.0	4-Isopropyltoluene	870	2127	0.027
31.207	146.0+148.0	1,3-Dichlorobenzene	981	2455	0.055
31.420	146.0+148.0	1,4-Dichlorobenzene	490	2009	0.051
31.910	91.0	Benzyl Chloride	237		N/A
32.160	91.0+134.0	n-Butylbenzene	952	2966	0.034
32.381	146.0+148.0	1,2-Dichlorobenzene	925	1728	0.048
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	543		N/A
36.088	180.0+182.0	1,2,4-Trichlorobenzene	861	3500	0.123
36.341	225.0+226.0	Hexachlorobutadiene	966	945	0.054
36.676	128.0	Naphthalene	966	4390	0.294
37.185	180.0+182.0	1,2,3-Trichlorobenzene	984	2551	0.103

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130649

Created Date:	10/18/2012
Created By:	lucy
Matrix:	Water

done

Test:	8260B Alab Low
Method:	EPA 8260B
Instrument:	VOA-MS (group)
AnalysisDate:	10/18/2012
AnalysisEmployee:	

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	Method Blank_1									
2	311877-001	3850R	311877-001							
3	311877-002	B-1-CW27	311877-002							
4	311877-003	3850N	311877-003							
5	311877-004	TB101012	311877-004							
6	311877-005	B-6-CW01	311877-005							
7	311995-001	TB101112	311995-001							
8	311995-002	Equipment Blank	311995-002							
9	311995-003	B-6-CW02	311995-003							
10	311995-007	C-1-CW05	311995-007							
11	311995-010	B1CW17	311995-010							
12	312159-001	TB101512	312159-001							
13	312159-002	B-1-CW29	312159-002							
14	312159-003	MW-4	312159-003							
15	312159-004	MW-7	312159-004							
16	312159-005	A-1-CW07	312159-005							

InitialCalibSTD:	W#12090602
CalibCheckSTD	
InternalSTD:	W#12090701
SurrogateSTD:	
LCSSTD:	W#12090604
MSSTD:	

Solvent Manufacturer and Lot:	
Sand Manufacturer and Lot:	
Na2SO4 Manufacturer and Lot	
Surrogate Lot:	
Spike Lot:	
Prep By Signature:	

CONFIDENTIAL

QCBatchID: QC1130649

Created Date	10/18/2012
Created By:	lucy
Matrix:	Water

Test:	8260B Alab Low
Method:	EPA 8260B
Instrument:	VOA-MS (group)
AnalysisDate:	10/18/2012
AnalysisEmployee:	

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
17	312159-006	EB101512 Equip Blank	312159-006							
18	MS_1		311995-007							
19	MSD_1		311995-007							

InitialCalibSTD:	W#12090602
CalibCheckSTD	
InternalSTD:	W#12090701
SurrogateSTD:	
LCSSTD:	W#12090604
MSSTD:	

Solvent Manufacturer and Lot:	
Sand Manufacturer and Lot:	
Na2SO4 Manufacturer and Lot	
Surrogate Lot:	
Spike Lot:	
Prep By Signature:	

LMC-PET-00000299

Varian Star Workstation - RecalcList Wed Oct 17 17:00:44 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Tue Nov 18 08:23:28 2008
Modified: Wed Oct 17 16:56:32 2012

Line	Sample Name	Data File
1	10ppb 524.2 tune 1	c:\varianws\data\8oct12\8Oct121435.SMS
2	25ppb 524.2 ccv 1	c:\varianws\data\8oct12\8Oct121436.SMS
3	25ppb 524.2 lcs 1	c:\varianws\data\8oct12\8Oct121437.SMS
4	rinse	c:\varianws\data\8oct12\8Oct121438.SMS
5	Method Blank 1	c:\varianws\data\8oct12\8Oct121439.SMS
6	312159-001_10ml-3	c:\varianws\data\8oct12\8Oct121440.SMS
7	312159-006_10ml-11	c:\varianws\data\8oct12\8Oct121441.SMS
8	312159-003_10ml-11	c:\varianws\data\8oct12\8Oct121442.SMS
9	312159-004_10ml-11	c:\varianws\data\8oct12\8Oct121443.SMS
10	311995-007_10ml-7	c:\varianws\data\8oct12\8Oct121444.SMS
11	312159-002_5ml-3	c:\varianws\data\8oct12\8Oct121445.SMS
12	312159-005_1ml-7	c:\varianws\data\8oct12\8Oct121446.SMS
13	312159-002_10ml-3	c:\varianws\data\8oct12\8Oct121447.SMS
14	312159-005_10ml-7	c:\varianws\data\8oct12\8Oct121448.SMS
15	MS_311995-007_10ml	c:\varianws\data\8oct12\8Oct121449.SMS
16	MSD_311995-007_10ml	c:\varianws\data\8oct12\8Oct121450.SMS
17	10ppb 524.2 tune 2	c:\varianws\data\8oct12\8Oct121451.SMS
18	25ppb 524.2 ccv 2	c:\varianws\data\8oct12\8Oct121452.SMS
19	25ppb 524.2 lcs 2	c:\varianws\data\8oct12\8Oct121453.SMS
20	rinse	c:\varianws\data\8oct12\8Oct121454.SMS
21	Method Blank 2	c:\varianws\data\8oct12\8Oct121455.SMS
22	311877-004_10ml-2	c:\varianws\data\8oct12\8Oct121456.SMS
23	311877-005_10ml-3	c:\varianws\data\8oct12\8Oct121457.SMS
24	311877-002_10ml-4	c:\varianws\data\8oct12\8Oct121458.SMS
25	311877-001_10ml-2	c:\varianws\data\8oct12\8Oct121459.SMS
26	311995-001_10ml-2	c:\varianws\data\8oct12\8Oct121460.SMS
27	311995-002_10ml-6	c:\varianws\data\8oct12\8Oct121461.SMS
28	311995-003_10ml-3	c:\varianws\data\8oct12\8Oct121462.SMS
29	311877-003_1ml-7	c:\varianws\data\8oct12\8Oct121463.SMS
30	311877-003_10ml-7	c:\varianws\data\8oct12\8Oct121464.SMS
31	311995-010_10ml-15	c:\varianws\data\8oct12\8Oct121465.SMS
32	25ppb 524.2 lcs D	c:\varianws\data\8oct12\8Oct121466.SMS
33	10ppb 524.2 tune 1	c:\varianws\data\8oct12\8Oct121467.SMS
34	rinse	c:\varianws\data\8oct12\8Oct121468.SMS
35	25ppb 524.2 lcs D	c:\varianws\data\8oct12\8Oct121469.SMS

ALAB: 00186

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\8oct12\8Oct121469.SMS Acquisition Date: 10/17/2012 16:13

Comment: W#12090604

SampleID: 25ppb 524.2 lcs D Analyst: LZ

Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Cal. Sample Dates: First: 10/10/2012 14:21 Last: 10/10/2012 19:39

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
45)	* Fluorobenzene (IS1)	25.00	ppb	25.00	100 %	70 - 130	PASS
66)	* Chlorobenzene-d5(IS2)	25.00	ppb	25.00	100 %	70 - 130	PASS
91)	* 1,4-Dichlorobenzene-d4(IS3)	25.00	ppb	25.00	100 %	70 - 130	PASS
3)	Vinyl Chloride	23.82	ppb	25.00	95 %	50 - 134	PASS
8)	Trichlorotrifluoroethane (Freon 113)	23.43	ppb	25.00	94 %	60 - 140	PASS
9)	1,1-Dichloroethene	23.11	ppb	25.00	92 %	68 - 130	PASS
17)	Methylene Chloride	20.27	ppb	25.00	81 %	63 - 137	PASS
19)	Methyl-tert-butyl-ether (MTBE)	22.30	ppb	25.00	89 %	65 - 123	PASS
20)	t-1,2-Dichloroethene	22.92	ppb	25.00	92 %	63 - 137	PASS
23)	1,1-Dichloroethane	21.70	ppb	25.00	87 %	69 - 133	PASS
27)	Ethyl-tert-butyl-ether	23.92	ppb	25.00	96 %	60 - 140	PASS
28)	2,2-Dichloropropane	24.33	ppb	25.00	97 %	69 - 137	PASS
29)	c-1,2-Dichloroethene	22.88	ppb	25.00	92 %	72 - 126	PASS
32)	Bromochloromethane	22.68	ppb	25.00	91 %	65 - 129	PASS
35)	Chloroform	21.82	ppb	25.00	87 %	69 - 128	PASS
36)	1,1,1-Trichloroethane	23.96	ppb	25.00	96 %	67 - 132	PASS
38)	Carbon Tetrachloride	23.83	ppb	25.00	95 %	66 - 138	PASS
39)	1,1-Dichloropropene	21.66	ppb	25.00	87 %	73 - 132	PASS
42)	Benzene	22.57	ppb	25.00	90 %	81 - 122	PASS
43)	1,2-Dichloroethane	22.29	ppb	25.00	89 %	69 - 132	PASS
44)	tert-Amyl-methyl-ether	22.66	ppb	25.00	91 %	50 - 150	PASS
46)	Trichloroethene	22.15	ppb	25.00	89 %	70 - 127	PASS
47)	1,2-Dichloropropane	22.17	ppb	25.00	89 %	75 - 125	PASS
50)	Dibromomethane	22.93	ppb	25.00	92 %	76 - 125	PASS
51)	Bromodichloromethane	24.18	ppb	25.00	97 %	76 - 121	PASS
54)	4-Methyl-2-pentanone	22.00	ppb	25.00	88 %	58 - 134	PASS
56)	Toluene	23.79	ppb	25.00	95 %	77 - 122	PASS
57)	t-1,3-Dichloropropene	22.60	ppb	25.00	90 %	59 - 135	PASS
59)	1,1,2-Trichloroethane	23.52	ppb	25.00	94 %	75 - 125	PASS
60)	Tetrachloroethene	22.60	ppb	25.00	90 %	66 - 128	PASS
61)	1,3-Dichloropropane	22.41	ppb	25.00	90 %	73 - 126	PASS
62)	2-Hexanone	19.20	ppb	25.00	77 %	60 - 140	PASS
63)	Dibromochloromethane	23.45	ppb	25.00	94 %	66 - 133	PASS
64)	1,2-Dibromoethane	22.60	ppb	25.00	90 %	60 - 140	PASS
67)	Chlorobenzene	24.65	ppb	25.00	99 %	81 - 122	PASS
68)	Ethylbenzene	22.27	ppb	25.00	89 %	73 - 127	PASS
69)	1,1,1,2-Tetrachloroethane	24.43	ppb	25.00	98 %	81 - 129	PASS
70)	p,m-Xylenes	46.87	ppb	50.00	94 %	76 - 128	PASS
71)	o-Xylene	23.98	ppb	25.00	96 %	80 - 121	PASS
72)	Styrene	22.82	ppb	25.00	91 %	65 - 134	PASS
73)	Bromoform	22.06	ppb	25.00	88 %	69 - 128	PASS

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
74)	Isopropylbenzene	22.45	ppb	25.00	90 %	75 - 127	PASS
76)	1,1,2,2-Tetrachloroethane	21.15	ppb	25.00	85 %	63 - 128	PASS
80)	Bromobenzene	22.70	ppb	25.00	91 %	76 - 124	PASS
83)	1,3,5-Trimethylbenzene	21.34	ppb	25.00	85 %	74 - 131	PASS
84)	4-Chlorotoluene	22.58	ppb	25.00	90 %	74 - 128	PASS
85)	tert-Butylbenzene	21.47	ppb	25.00	86 %	70 - 129	PASS
88)	sec-Butylbenzene	20.31	ppb	25.00	81 %	72 - 127	PASS
89)	4-Isopropyltoluene	18.39	ppb	25.00	74 %	73 - 130	PASS
90)	1,3-Dichlorobenzene	22.13	ppb	25.00	89 %	75 - 124	PASS
92)	1,4-Dichlorobenzene	20.88	ppb	25.00	84 %	74 - 123	PASS
94)	n-Butylbenzene	17.02	ppb	25.00	68 %	69 - 137	FAIL
96)	1,2-Dibromo-3-chloropropane	20.56	ppb	25.00	82 %	50 - 132	PASS
100)	1,2,3-Trichlorobenzene	19.61	ppb	25.00	78 %	67 - 137	PASS

* indicates Internal Standard.

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\8oct12\8Oct121437.SMS Acquisition Date: 10/16/2012 15:13

Comment: W#12090604

SampleID: 25ppb 524.2 lcs 1 Analyst: LZ

Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Cal. Sample Dates: First: 10/10/2012 14:21 Last: 10/10/2012 19:39

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
45)	* Fluorobenzene (IS1)	25.00	ppb	25.00	100 %	70 - 130	PASS
66)	* Chlorobenzene-d5(IS2)	25.00	ppb	25.00	100 %	70 - 130	PASS
91)	* 1,4-Dichlorobenzene-d4(IS3)	25.00	ppb	25.00	100 %	70 - 130	PASS
3)	Vinyl Chloride	25.28	ppb	25.00	101 %	50 - 134	PASS
8)	Trichlorotrifluoroethane (Freon 113)	24.52	ppb	25.00	98 %	60 - 140	PASS
9)	1,1-Dichloroethene	24.22	ppb	25.00	97 %	68 - 130	PASS
17)	Methylene Chloride	21.51	ppb	25.00	86 %	63 - 137	PASS
19)	Methyl-tert-butyl-ether (MTBE)	21.91	ppb	25.00	88 %	65 - 123	PASS
20)	t-1,2-Dichloroethene	24.35	ppb	25.00	97 %	63 - 137	PASS
23)	1,1-Dichloroethane	22.32	ppb	25.00	89 %	69 - 133	PASS
27)	Ethyl-tert-butyl-ether	23.93	ppb	25.00	96 %	60 - 140	PASS
28)	2,2-Dichloropropane	23.15	ppb	25.00	93 %	69 - 137	PASS
29)	c-1,2-Dichloroethene	23.76	ppb	25.00	95 %	72 - 126	PASS
32)	Bromochloromethane	22.76	ppb	25.00	91 %	65 - 129	PASS
35)	Chloroform	22.14	ppb	25.00	89 %	69 - 128	PASS
36)	1,1,1-Trichloroethane	25.16	ppb	25.00	101 %	67 - 132	PASS
38)	Carbon Tetrachloride	25.19	ppb	25.00	101 %	66 - 138	PASS
39)	1,1-Dichloropropene	23.00	ppb	25.00	92 %	73 - 132	PASS
42)	Benzene	23.69	ppb	25.00	95 %	81 - 122	PASS
43)	1,2-Dichloroethane	22.63	ppb	25.00	91 %	69 - 132	PASS
44)	tert-Amyl-methyl-ether	21.93	ppb	25.00	88 %	50 - 150	PASS
46)	Trichloroethene	23.71	ppb	25.00	95 %	70 - 127	PASS
47)	1,2-Dichloropropane	22.19	ppb	25.00	89 %	75 - 125	PASS
50)	Dibromomethane	23.07	ppb	25.00	92 %	76 - 125	PASS
51)	Bromodichloromethane	24.19	ppb	25.00	97 %	76 - 121	PASS
54)	4-Methyl-2-pentanone	23.52	ppb	25.00	94 %	58 - 134	PASS
56)	Toluene	25.12	ppb	25.00	100 %	77 - 122	PASS
57)	t-1,3-Dichloropropene	22.26	ppb	25.00	89 %	59 - 135	PASS
59)	1,1,2-Trichloroethane	22.75	ppb	25.00	91 %	75 - 125	PASS
60)	Tetrachloroethene	24.62	ppb	25.00	98 %	66 - 128	PASS
61)	1,3-Dichloropropane	22.14	ppb	25.00	89 %	73 - 126	PASS
62)	2-Hexanone	20.96	ppb	25.00	84 %	60 - 140	PASS
63)	Dibromochloromethane	23.92	ppb	25.00	96 %	66 - 133	PASS
64)	1,2-Dibromoethane	23.22	ppb	25.00	93 %	60 - 140	PASS
67)	Chlorobenzene	25.19	ppb	25.00	101 %	81 - 122	PASS
68)	Ethylbenzene	25.35	ppb	25.00	101 %	73 - 127	PASS
69)	1,1,1,2-Tetrachloroethane	25.25	ppb	25.00	101 %	81 - 129	PASS
70)	p,m-Xylenes	52.29	ppb	50.00	105 %	76 - 128	PASS
71)	o-Xylene	26.59	ppb	25.00	106 %	80 - 121	PASS
72)	Styrene	24.74	ppb	25.00	99 %	65 - 134	PASS
73)	Bromoform	23.89	ppb	25.00	96 %	69 - 128	PASS

ALAB : 00109

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
74)	Isopropylbenzene	26.58	ppb	25.00	106 %	75 - 127	PASS
76)	1,1,2,2-Tetrachloroethane	21.53	ppb	25.00	86 %	63 - 128	PASS
80)	Bromobenzene	24.74	ppb	25.00	99 %	76 - 124	PASS
83)	1,3,5-Trimethylbenzene	25.56	ppb	25.00	102 %	74 - 131	PASS
84)	4-Chlorotoluene	25.68	ppb	25.00	103 %	74 - 128	PASS
85)	tert-Butylbenzene	26.61	ppb	25.00	106 %	70 - 129	PASS
88)	sec-Butylbenzene	26.61	ppb	25.00	106 %	72 - 127	PASS
89)	4-Isopropyltoluene	24.10	ppb	25.00	96 %	73 - 130	PASS
90)	1,3-Dichlorobenzene	24.63	ppb	25.00	99 %	75 - 124	PASS
92)	1,4-Dichlorobenzene	23.52	ppb	25.00	94 %	74 - 123	PASS
94)	n-Butylbenzene	25.38	ppb	25.00	102 %	69 - 137	PASS
96)	1,2-Dibromo-3-chloropropane	21.55	ppb	25.00	86 %	50 - 132	PASS
100)	1,2,3-Trichlorobenzene	23.99	ppb	25.00	96 %	67 - 137	PASS

* indicates Internal Standard.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 7 Case No.: SAS No.: SDG No.:

Instrument ID: GCMS #7 Continuing Cal. Sample Date: 10/16/2012 Time: 14:27

Initial Cal. Sample Date: 10/10/2012 10/10/2012

Initial Cal. Sample Time: 14:21 19:39

Initial Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Lab File ID: c:\varianws\data\8oct12\8Oct121436.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.404	0.100	25.00	22.40	10.4	20.0
Chloromethane	0.125	0.100	25.00	24.94	0.2	20.0
Vinyl Chloride	0.366	0.100	25.00	23.85	4.6	20.0
Bromomethane	0.123	0.100	25.00	34.20	-36.8	20.0
Chloroethane	0.028	0.100	25.00	25.26	-1.0	20.0
Trichlorofluoromethane	0.888	0.100	25.00	25.85	-3.4	20.0
Ethyl ether	0.093	0.100	25.00	23.57	5.7	20.0
Trichlorotrifluoroethane (Freon 113)	0.663	0.100	25.00	24.97	0.1	20.0
1,1-Dichloroethene	0.938	0.100	25.00	22.46	10.1	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
Acetone	0.028	0.100	25.00	22.62	9.5	20.0
Iodomethane	0.651	0.100	25.00	28.98	-15.9	20.0
Carbon disulfide	0.496	0.100	25.00	21.60	13.6	20.0
Acetonitrile	0.490	0.100	25.00	21.76	13.0	20.0
Allyl chloride	0.985	0.100	25.00	23.00	8.0	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Methylene Chloride	0.444	0.100	25.00	20.33	18.7	20.0
tert-Butanol	0.009	0.100	125.00	118.29	5.4	20.0
Methyl-tert-butyl-ether (MTBE)	0.272	0.100	25.00	20.65	17.4	20.0
t-1,2-Dichloroethene	0.769	0.100	25.00	22.84	8.6	20.0
Acrylonitrile	0.016	0.100	25.00	24.66	1.4	20.0
n-Hexane	0.916	0.100	25.00	24.10	3.6	20.0
1,1-Dichloroethane	0.493	0.100	25.00	22.69	9.2	20.0
Isopropyl ether	0.720	0.100	25.00	22.58	9.7	20.0
Chloroprene	0.541	0.100	25.00	22.20	11.2	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Ethyl-tert-butyl-ether	0.710	0.100	25.00	23.14	7.4	20.0
2,2-Dichloropropane	0.353	0.100	25.00	22.19	11.2	20.0
c-1,2-Dichloroethene	0.254	0.100	25.00	22.19	11.2	20.0
2-Butanone (MEK)	0.032	0.100	25.00	20.37	18.5	20.0
Propionitrile	0.016	0.100	25.00	8.59	65.6	20.0
Bromochloromethane	0.296	0.100	25.00	22.10	11.6	20.0
Methacrylonitrile	0.000	0.100	25.00	0.00	100.0	20.0
Chloroform	0.749	0.100	25.00	21.86	12.5	20.0
1,1,1-Trichloroethane	1.069	0.100	25.00	24.27	2.9	20.0
Dibromofluoromethane (Surr1)	0.168	0.100	25.00	23.26	7.0	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	0.899	0.100	25.00	24.10	3.6	20.0
1,1-Dichloropropene	0.292	0.100	25.00	22.01	12.0	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
1,2-Dichloroethane-d4 (Surr2)	0.175	0.100	25.00	21.78	12.9	20.0
Benzene	0.804	0.100	25.00	23.29	6.8	20.0
1,2-Dichloroethane	0.353	0.100	25.00	22.01	11.9	20.0
tert-Amyl-methyl-ether	0.619	0.100	25.00	21.04	15.8	20.0
Trichloroethene	1.107	0.100	25.00	23.34	6.6	20.0
1,2-Dichloropropane	0.284	0.100	25.00	22.63	9.5	20.0
Methyl methacrylate	0.263	0.100	25.00	19.87	20.5	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Dibromomethane	0.287	0.100	25.00	23.67	5.3	20.0
Bromodichloromethane	0.603	0.100	25.00	22.72	9.1	20.0
2-Chloroethyl vinyl ether	0.120	0.100	25.00	21.25	15.0	20.0
c-1,3-Dichloropropene	0.770	0.100	25.00	22.68	9.3	20.0
4-Methyl-2-pentanone	0.164	0.100	25.00	21.53	13.9	20.0
Toluene-d8 (Surr3)	1.453	0.100	25.00	25.24	-1.0	20.0
Toluene	3.457	0.100	25.00	24.23	3.1	20.0
t-1,3-Dichloropropene	0.301	0.100	25.00	23.05	7.8	20.0
Ethyl methacrylate	0.119	0.100	25.00	22.14	11.5	20.0
1,1,2-Trichloroethane	0.303	0.100	25.00	22.77	8.9	20.0
Tetrachloroethene	0.139	0.100	25.00	24.27	2.9	20.0
1,3-Dichloropropane	0.432	0.100	25.00	21.27	14.9	20.0
2-Hexanone	0.112	0.100	25.00	18.78	24.9	20.0
Dibromochloromethane	0.349	0.100	25.00	22.63	9.5	20.0
1,2-Dibromoethane	0.382	0.100	25.00	22.62	9.5	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	1.942	0.100	25.00	23.84	4.6	20.0
Ethylbenzene	8.166	0.100	25.00	24.84	0.7	20.0
1,1,1,2-Tetrachloroethane	1.899	0.100	25.00	25.57	-2.3	20.0
p,m-Xylenes	8.274	0.100	50.00	50.14	-0.3	20.0
o-Xylene	7.852	0.100	25.00	25.11	-0.4	20.0
Styrene	4.218	0.100	25.00	23.96	4.2	20.0
Bromoform	0.454	0.100	25.00	23.47	6.1	20.0
Isopropylbenzene	9.049	0.100	25.00	25.01	-0.1	20.0
p-Bromofluorobenzene (Surr4)	1.313	0.100	25.00	25.41	-1.6	20.0
1,1,2,2-Tetrachloroethane	0.529	0.100	25.00	21.26	15.0	20.0
1,2,3-Trichloropropane	0.388	0.100	25.00	22.00	12.0	20.0
trans-1,4-Dichloro-2-butene	0.466	0.100	25.00	22.67	9.3	20.0
cis-1,4-Dichloro-2-butene	0.357	0.100	25.00	22.14	11.5	20.0
Bromobenzene	2.736	0.100	25.00	22.93	8.3	20.0
n-Propylbenzene	10.193	0.100	25.00	24.81	0.7	20.0
2-Chlorotoluene	6.451	0.100	25.00	24.25	3.0	20.0
1,3,5-Trimethylbenzene	10.165	0.100	25.00	24.24	3.0	20.0
4-Chlorotoluene	6.385	0.100	25.00	24.76	1.0	20.0
tert-Butylbenzene	12.313	0.100	25.00	24.88	0.5	20.0
1,2,4-Trimethylbenzene	8.944	0.100	25.00	23.46	6.2	20.0
Pentachloroethane	0.493	0.100	25.00	23.95	4.2	20.0
sec-Butylbenzene	10.075	0.100	25.00	25.06	-0.2	20.0
4-Isopropyltoluene	7.412	0.100	25.00	24.96	0.2	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
1,3-Dichlorobenzene	4.087	0.100	25.00	23.96	4.1	20.0
1,4-Dichlorobenzene	3.558	0.100	25.00	23.44	6.2	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	8.047	0.100	25.00	24.15	3.4	20.0
1,2-Dichlorobenzene	3.201	0.100	25.00	23.03	7.9	20.0
1,2-Dibromo-3-chloropropane	0.203	0.100	25.00	20.79	16.8	20.0
1,2,4-Trichlorobenzene	2.448	0.100	25.00	22.54	9.8	20.0
Hexachlorobutadiene	1.654	0.100	25.00	24.53	1.9	20.0
Naphthalene	1.221	0.100	25.00	21.32	14.7	20.0
1,2,3-Trichlorobenzene	2.160	0.100	25.00	22.78	8.9	20.0

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 7 Case No.: SAS No.: SDG No.:

Instrument ID: GCMS #7 Continuing Cal. Sample Date: 10/17/2012 Time: 2:47

Initial Cal. Sample Date: 10/10/2012 10/10/2012

Initial Cal. Sample Time: 14:21 19:39

Initial Calibration File: C:\VarianWS\Data\7Jul12\7Jul121155.SMS

Lab File ID: c:\varianws\data\8oct12\8Oct121452.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.385	0.100	25.00	21.34	14.6	20.0
Chloromethane	0.116	0.100	25.00	23.27	6.9	20.0
Vinyl Chloride	0.348	0.100	25.00	22.67	9.3	20.0
Bromomethane	0.113	0.100	25.00	31.48	-25.9	20.0
Chloroethane	0.024	0.100	25.00	21.63	13.5	20.0
Trichlorofluoromethane	0.891	0.100	25.00	25.94	-3.8	20.0
Ethyl ether	0.095	0.100	25.00	23.99	4.1	20.0
Trichlorotrifluoroethane (Freon 113)	0.636	0.100	25.00	23.98	4.1	20.0
1,1-Dichloroethene	0.957	0.100	25.00	22.92	8.3	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
Acetone	0.030	0.100	25.00	24.01	4.0	20.0
Iodomethane	0.573	0.100	25.00	25.51	-2.0	20.0
Carbon disulfide	0.496	0.100	25.00	21.62	13.5	20.0
Acetonitrile	0.478	0.100	25.00	21.24	15.0	20.0
Allyl chloride	0.964	0.100	25.00	22.51	10.0	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Methylene Chloride	0.444	0.100	25.00	20.34	18.7	20.0
tert-Butanol	0.010	0.100	125.00	125.11	-0.1	20.0
Methyl-tert-butyl-ether (MTBE)	0.285	0.100	25.00	21.63	13.5	20.0
t-1,2-Dichloroethene	0.744	0.100	25.00	22.10	11.6	20.0
Acrylonitrile	0.015	0.100	25.00	24.42	2.3	20.0
n-Hexane	0.918	0.100	25.00	24.15	3.4	20.0
1,1-Dichloroethane	0.487	0.100	25.00	22.42	10.3	20.0
Isopropyl ether	0.732	0.100	25.00	22.95	8.2	20.0
Chloroprene	0.553	0.100	25.00	22.69	9.2	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Ethyl-tert-butyl-ether	0.729	0.100	25.00	23.77	4.9	20.0
2,2-Dichloropropane	0.349	0.100	25.00	21.92	12.3	20.0
c-1,2-Dichloroethene	0.255	0.100	25.00	22.25	11.0	20.0
2-Butanone (MEK)	0.033	0.100	25.00	21.58	13.7	20.0
Propionitrile	0.035	0.100	25.00	19.31	22.8	20.0
Bromochloromethane	0.306	0.100	25.00	22.79	8.8	20.0
Methacrylonitrile	0.000	0.100	25.00	0.00	100.0	20.0
Chloroform	0.762	0.100	25.00	22.24	11.0	20.0
1,1,1-Trichloroethane	1.034	0.100	25.00	23.49	6.0	20.0
Dibromofluoromethane (Surr1)	0.171	0.100	25.00	23.72	5.1	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	0.899	0.100	25.00	24.10	3.6	20.0
1,1-Dichloropropene	0.299	0.100	25.00	22.58	9.7	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
1,2-Dichloroethane-d4 (Surr2)	0.174	0.100	25.00	21.62	13.5	20.0
Benzene	0.766	0.100	25.00	22.18	11.3	20.0
1,2-Dichloroethane	0.355	0.100	25.00	22.10	11.6	20.0
tert-Amyl-methyl-ether	0.649	0.100	25.00	22.06	11.8	20.0
Trichloroethene	1.098	0.100	25.00	23.16	7.4	20.0
1,2-Dichloropropane	0.283	0.100	25.00	22.53	9.9	20.0
Methyl methacrylate	0.276	0.100	25.00	20.89	16.4	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Dibromomethane	0.297	0.100	25.00	24.50	2.0	20.0
Bromodichloromethane	0.608	0.100	25.00	22.92	8.3	20.0
2-Chloroethyl vinyl ether	0.129	0.100	25.00	22.97	8.1	20.0
c-1,3-Dichloropropene	0.746	0.100	25.00	21.99	12.1	20.0
4-Methyl-2-pentanone	0.178	0.100	25.00	23.35	6.6	20.0
Toluene-d8 (Surr3)	1.409	0.100	25.00	24.47	2.1	20.0
Toluene	3.492	0.100	25.00	24.47	2.1	20.0
t-1,3-Dichloropropene	0.294	0.100	25.00	22.51	10.0	20.0
Ethyl methacrylate	0.129	0.100	25.00	24.02	3.9	20.0
1,1,2-Trichloroethane	0.310	0.100	25.00	23.27	6.9	20.0
Tetrachloroethene	0.136	0.100	25.00	23.77	4.9	20.0
1,3-Dichloropropane	0.446	0.100	25.00	21.93	12.3	20.0
2-Hexanone	0.126	0.100	25.00	21.10	15.6	20.0
Dibromochloromethane	0.357	0.100	25.00	23.15	7.4	20.0
1,2-Dibromoethane	0.388	0.100	25.00	23.02	7.9	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	2.014	0.100	25.00	24.72	1.1	20.0
Ethylbenzene	7.631	0.100	25.00	23.21	7.2	20.0
1,1,1,2-Tetrachloroethane	1.773	0.100	25.00	23.86	4.5	20.0
p,m-Xylenes	8.058	0.100	50.00	48.84	2.3	20.0
o-Xylene	7.516	0.100	25.00	24.04	3.9	20.0
Styrene	4.112	0.100	25.00	23.36	6.6	20.0
Bromoform	0.422	0.100	25.00	21.84	12.6	20.0
Isopropylbenzene	8.628	0.100	25.00	23.85	4.6	20.0
p-Bromofluorobenzene (Surr4)	1.282	0.100	25.00	24.80	0.8	20.0
1,1,2,2-Tetrachloroethane	0.497	0.100	25.00	19.99	20.0	20.0
1,2,3-Trichloropropane	0.382	0.100	25.00	21.66	13.4	20.0
trans-1,4-Dichloro-2-butene	0.453	0.100	25.00	21.99	12.0	20.0
cis-1,4-Dichloro-2-butene	0.326	0.100	25.00	20.22	19.1	20.0
Bromobenzene	2.659	0.100	25.00	22.28	10.9	20.0
n-Propylbenzene	10.089	0.100	25.00	24.56	1.8	20.0
2-Chlorotoluene	6.403	0.100	25.00	24.07	3.7	20.0
1,3,5-Trimethylbenzene	9.529	0.100	25.00	22.72	9.1	20.0
4-Chlorotoluene	6.265	0.100	25.00	24.30	2.8	20.0
tert-Butylbenzene	11.657	0.100	25.00	23.55	5.8	20.0
1,2,4-Trimethylbenzene	8.587	0.100	25.00	22.52	9.9	20.0
Pentachloroethane	0.428	0.100	25.00	20.78	16.9	20.0
sec-Butylbenzene	9.600	0.100	25.00	23.88	4.5	20.0
4-Isopropyltoluene	7.377	0.100	25.00	24.84	0.6	20.0

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
1,3-Dichlorobenzene	3.850	0.100	25.00	22.57	9.7	20.0
1,4-Dichlorobenzene	3.468	0.100	25.00	22.85	8.6	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	7.787	0.100	25.00	23.37	6.5	20.0
1,2-Dichlorobenzene	3.171	0.100	25.00	22.81	8.7	20.0
1,2-Dibromo-3-chloropropane	0.209	0.100	25.00	21.36	14.6	20.0
1,2,4-Trichlorobenzene	2.433	0.100	25.00	22.39	10.4	20.0
Hexachlorobutadiene	1.639	0.100	25.00	24.31	2.8	20.0
Naphthalene	1.269	0.100	25.00	22.15	11.4	20.0
1,2,3-Trichlorobenzene	2.173	0.100	25.00	22.92	8.3	20.0

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 8 Case No.: SAS No: SDG No:

EPA Sample N	S1 #	S2 #	S3 #	S4 #	TOTAL OUT
8Oct121435	121	155 *	100	100 *	2
8Oct121436	93	87	101	102	0
8Oct121437	94	88	99	102	0
8Oct121438	98	98	102	101	0
8Oct121439	96	96	103	102	0
8Oct121440	97	95	102	101	0
8Oct121441	94	95	102	101	0
8Oct121442	97	97	102	100	0
8Oct121443	96	95	102	102	0
8Oct121444	98	98	103	101	0
8Oct121445	94	95	102	98	0
8Oct121446	93	91	101	98	0
8Oct121447	96	96	102	98	0
8Oct121448	94	91	101	100	0
8Oct121449	94	86	96	98	0
8Oct121450	93	85	99	98	0
8Oct121451	115	147 *	107	092 *	2
8Oct121452	95	86	98	99	0
8Oct121453	94	83	98	98	0
8Oct121454	92	91	101	97	0
8Oct121455	94	93	101	97	0

Surrogate Recovery

10/17/2012 17:01

EPA Sample N	S1	#	S2	#	S3	#	S4	#	TOTAL OUT
8Oct121456	96		98		100		97		0
8Oct121457	96		97		100		98		0
8Oct121458	94		95		101		95		0
8Oct121459	91		93		101		97		0
8Oct121460	91		93		100		97		0
8Oct121461	94		95		97		97		0
8Oct121462	94		95		100		97		0
8Oct121463	93		90		101		98		0
8Oct121464	92		95		100		100		0
8Oct121465	94		95		100		98		0
8Oct121466	95		85		100		101		0
8Oct121467	96		99		106		104		0
8Oct121468	92		94		101		97		0
8Oct121469	96		85		97		99		0
Replicates:	35		35		35		35		
Average:	96		96		101		213		
StdDev:	6		15		2		470		

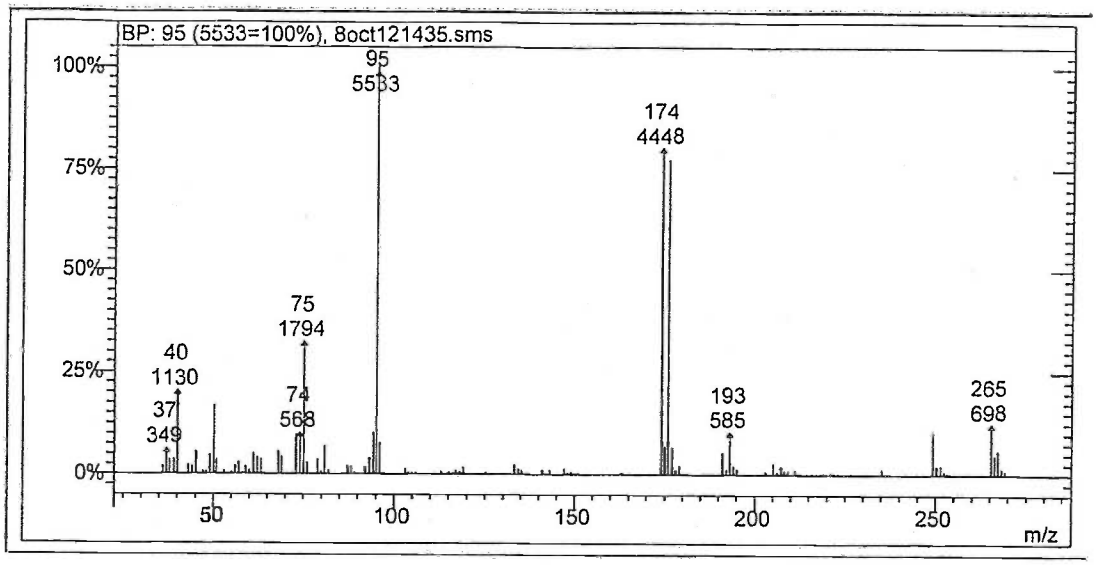
			QC Limits
S 1	=	Dibromofluoromethane (Surr1)	(70 - 135)
S 2	=	1,2-Dichloroethane-d4 (Surr2)	(70 - 135)
S 3	=	Toluene-d8 (Surr3)	(70 - 135)
S 4	=	p-Bromofluorobenzene (Surr4)	(70 - 135)

Column to be used to flag recovery values.

* Values outside of contract required QC Limits

D System Monitoring Compound diluted out

BFB 8260B Report



Lab File ID 8oct121435.sms

Injection Date: 10/16/2012

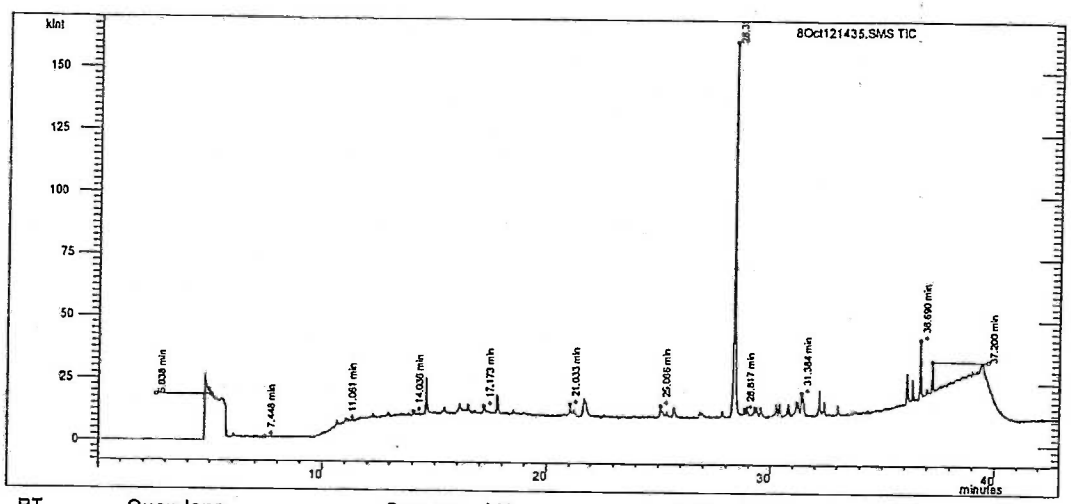
Injection Time: 13:41

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	16.79	PASS
75	30-60% of m/z 95	32.42	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.63	PASS
173	<2% of m/z 174	0.09	PASS
174	>50% of m/z 95	80.39	PASS
175	5-9% of m/z 174	8.50	PASS
176	>95% but <101% of m/z 174	96.13	PASS
177	5-9% of m/z 176	8.49	PASS

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	C:\VarianWS\data\8Oct12\8Oct121435.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	10ppb 524.2 tune 1	Acquisition Date:	10/16/2012 1:41:44 PM
Inj. Notes:	W#12062101	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.765	96.0+70.0	Fluorobenzene (IS1)	992	12992	25.000
25.086	117.0	Chlorobenzene-d5(IS2)	969	5910	25.000
31.384	152.0	1,4-Dichlorobenzene-d4(IS3)	979	4848	25.000
5.038	85.0	Dichlorodifluoromethane	754	411	1.752
5.725	47.0+49.0+51.0	Chloromethane	724		N/A
6.160	62.0+64.0	Vinyl Chloride	909	334	1.674
7.448	94.0	Bromomethane	866	167	3.580
7.855	49.0+45.0	Chloroethane	727		N/A
8.826	101.0+103.0	Trichlorofluoromethane	957	866	1.940
9.955	59.0	Ethyl ether	774	149	2.898
10.630	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	911	600	1.741
10.670	61.0+96.0+98.0	1,1-Dichloroethene	982	2727	5.028
11.038	55.0+56.0	Acrolein	250		N/A
11.061	43.0+58.0	Acetone	558	2767	172.506
11.175	142.0	Iodomethane	956	838	2.873
11.326	76.0	Carbon disulfide	673	1208	4.051
11.818	41.0+40.0	Acetonitrile	723		N/A
11.817	41.0+39.0	Allyl chloride	865		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	330		N/A
12.251	49.0	Methylene Chloride	762	2031	7.165
12.735	59.0	tert-Butanol	418	241	47.379
12.907	73.0	Methyl-tert-butyl-ether (MTBE)	868	526	3.079
12.939	61.0+96.0	t-1,2-Dichloroethene	921	2170	4.959

ALAB : 99119

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	436		N/A
13.472	55.9+41.0	n-Hexane	820		N/A
14.036	63.0	1,1-Dichloroethane	973	1381	4.891
14.080	45.0	Isopropyl ether	808	456	1.102
14.176	53.0	Chloroprene	678		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.918	59.0	Ethyl-tert-butyl-ether	622	493	1.237
15.333	77.0	2,2-Dichloropropane	750	360	1.743
15.413	96.0	c-1,2-Dichloroethene	863	1523	10.223
15.634	43.0+72.0	2-Butanone (MEK)	441	94	4.659
15.603	54.0+55.0	Propionitrile	448	25	1.047
15.964	130.0+49.0	Bromochloromethane	929	1069	6.135
15.692	39.0+41.0+71.0	Tetrahydrofuran	377		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	540		N/A
16.103	83.0+85.0	Chloroform	951	4627	10.394
16.420	97.0+99.0	1,1,1-Trichloroethane	856	1135	1.984
16.454	111.0	Dibromofluoromethane (Surr1)	994	2846	30.328
16.727	117.0+119.0	Carbon Tetrachloride	869		N/A
16.734	75.0	1,1-Dichloropropene	892		N/A
17.016	41.0+39.0	Isobutyl alcohol	414		N/A
17.173	65.0	1,2-Dichloroethane-d4 (Surr2)	993	4045	38.747
17.215	78.0	Benzene	941	1443	3.217
17.334	62.0+64.0	1,2-Dichloroethane	943	1180	5.659
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	822		N/A
18.484	130.0+132.0+95.0	Trichloroethene	993	2989	10.670
18.966	63.0+65.0	1,2-Dichloropropane	894	407	5.491
18.939	41.0+39.0	Methyl methacrylate	509		N/A
19.091	88.0	1,4-Dioxane	356		N/A
19.280	93.0+174.0	Dibromomethane	923	756	10.549
19.544	83.0+85.0	Bromodichloromethane	962	823	5.253
20.778	63.0+43.0	2-Chloroethyl vinyl ether	674	547	16.448
20.538	75.0+77.0+39.0	c-1,3-Dichloropropene	553	465	2.320
20.777	43.0+58.0	4-Methyl-2-pentanone	528	715	15.903
21.033	98.0	Toluene-d8 (Surr3)	933	8462	24.878
21.198	92.0+91.0	Toluene	942	4474	5.306
21.721	75.0+77.0	t-1,3-Dichloropropene	210		N/A
21.740	69.0	Ethyl methacrylate	462		N/A
22.284	97.0+99.0	1,1,2-Trichloroethane	926	367	4.669
22.581	164.0+166.0	Tetrachloroethene	990	149	4.418
22.704	76.0+41.0	1,3-Dichloropropane	686		N/A
22.945	43.0+58.0+100.0	2-Hexanone	445	48	1.369
23.402	129.0+127.0	Dibromochloromethane	797		N/A
23.868	107.0+109.0	1,2-Dibromoethane	914	731	7.325
24.895	91.0	1-Chlorohexane	367		N/A
25.173	112.0+114.0	Chlorobenzene	955	2943	6.114
25.366	106.0+91.0	Ethylbenzene	944	3994	2.506
25.343	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	868	449	1.246
25.688	106.0+91.0	p,m-Xylenes	985	8663	5.414
26.849	106.0+91.0	o-Xylene	909	4277	2.821
26.931	104.0+78.0	Styrene	929	1986	2.327
27.589	171.0+173.0+175.0	Bromoform	805	247	2.641

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.806	105.0+120.0	Isopropylbenzene	947	4400	2.509
28.351	95.0	p-Bromofluorobenzene (Surr4)	989	131572	525.000
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	941		N/A
28.917	75.0+110.0	1,2,3-Trichloropropane	745	200	2.339
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	411		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	334		N/A
28.817	77.0+158.0	Bromobenzene	947	3195	5.523
28.936	91.0+120.0	n-Propylbenzene	953	7049	3.540
29.264	91.0+126.0	2-Chlorotoluene	971	4514	3.500
29.371	105.0+120.0	1,3,5-Trimethylbenzene	974	6958	3.422
29.555	91.0+126.0	4-Chlorotoluene	981	7398	5.918
30.230	119.0+91.0	tert-Butylbenzene	817	9201	3.834
30.382	105.0+120.0	1,2,4-Trimethylbenzene	980	9079	4.911
30.398	117.0	Pentachloroethane	883	296	2.972
30.797	105.0+134.0	sec-Butylbenzene	932	7546	3.872
31.141	119.0	4-Isopropyltoluene	930	9154	6.358
31.225	146.0+148.0	1,3-Dichlorobenzene	987	6787	8.209
31.450	146.0+148.0	1,4-Dichlorobenzene	982	7428	10.094
31.910	91.0	Benzyl Chloride	528		N/A
32.181	91.0+134.0	n-Butylbenzene	982	17294	10.704
32.403	146.0+148.0	1,2-Dichlorobenzene	992	8075	11.984
34.299	75.0+157.0	1,2-Dibromo-3-chloropropane	908	837	17.643
36.106	180.0+182.0	1,2,4-Trichlorobenzene	883	13712	26.036
36.355	225.0+226.0	Hexachlorobutadiene	966	4653	14.229
36.690	128.0	Naphthalene	998	30412	109.523
37.200	180.0+182.0	1,2,3-Trichlorobenzene	996	12936	28.139

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121436.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
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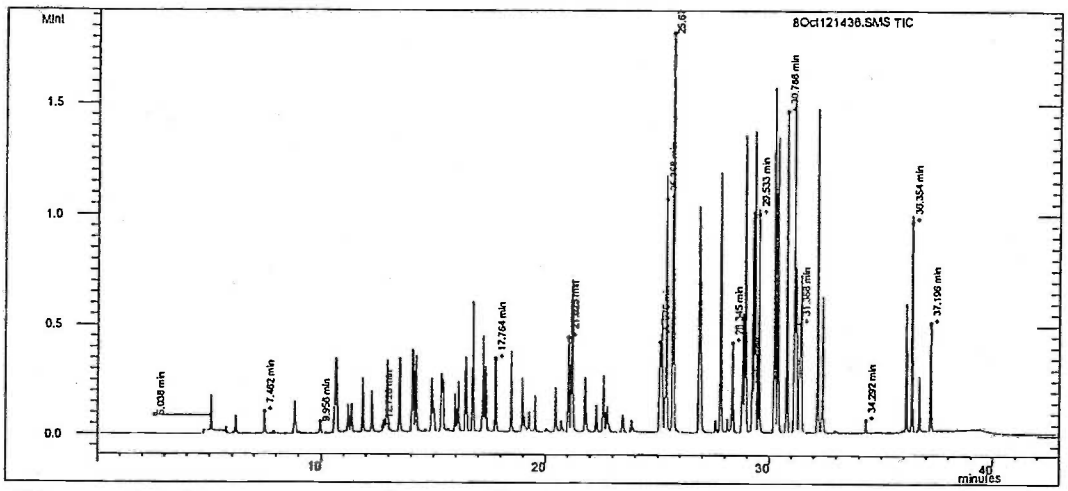
Inj. Notes:	W#1290602	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.764	96.0+70.0	Fluorobenzene (IS1)	998	617386	25.000
25.075	117.0	Chlorobenzene-d5(IS2)	989	510886	25.000
31.368	152.0	1,4-Dichlorobenzene-d4(IS3)	987	271738	25.000
5.038	85.0	Dichlorodifluoromethane	991	249502	22.404
5.744	47.0+49.0+51.0	Chloromethane	896	77020	24.942
6.157	62.0+64.0	Vinyl Chloride	992	226162	23.848
7.462	94.0	Bromomethane	964	75642	34.202
7.882	49.0+45.0	Chloroethane	952	17198	25.255
8.822	101.0+103.0	Trichlorofluoromethane	998	548013	25.846
9.956	59.0	Ethyl ether	957	57418	23.565
10.629	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	994	409049	24.966
10.675	61.0+96.0+98.0	1,1-Dichloroethene	997	579019	22.464
11.038	55.0+56.0	Acrolein	511		N/A
11.062	43.0+58.0	Acetone	838	17240	22.621
11.184	142.0	Iodomethane	985	401777	28.979
11.330	76.0	Carbon disulfide	654	306176	21.602
11.840	41.0+40.0	Acetonitrile	981	302594	21.760
11.841	41.0+39.0	Allyl chloride	996	608004	23.005
11.794	45.0	Isopropyl alcohol (2-Propanol)	200		N/A
12.257	49.0	Methylene Chloride	987	273889	20.331
12.728	59.0	tert-Butanol	911	28576	118.287
12.898	73.0	Methyl-tert-butyl-ether (MTBE)	998	167798	20.653
12.935	61.0+96.0	t-1,2-Dichloroethene	950	474911	22.844

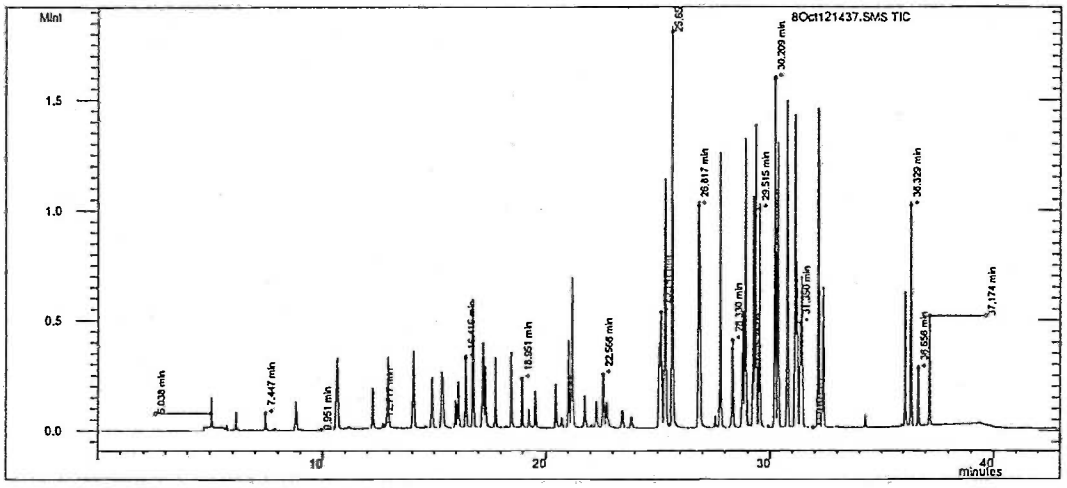
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.063	53.0	Acrylonitrile	987	9604	24.656
13.496	55.9+41.0	n-Hexane	994	565487	24.096
14.041	63.0	1,1-Dichloroethane	998	304472	22.692
14.074	45.0	Isopropyl ether	941	444555	22.582
14.209	53.0	Chloroprene	948	334082	22.205
14.042	43.0	Vinyl acetate	722		N/A
14.915	59.0	Ethyl-tert-butyl-ether	997	438238	23.139
15.342	77.0	2,2-Dichloropropane	999	217837	22.191
15.410	96.0	c-1,2-Dichloroethene	999	157072	22.190
15.503	43.0+72.0	2-Butanone (MEK)	826	19450	20.375
15.645	54.0+55.0	Propionitrile	961	9687	8.589
15.961	130.0+49.0	Bromochloromethane	993	183012	22.096
15.692	39.0+41.0+71.0	Tetrahydrofuran	396		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	344		N/A
16.107	83.0+85.0	Chloroform	997	462496	21.863
16.427	97.0+99.0	1,1,1-Trichloroethane	999	659961	24.274
16.458	111.0	Dibromofluoromethane (Surr1)	994	103706	23.257
16.755	117.0+119.0	Carbon Tetrachloride	993	555005	24.104
16.763	75.0	1,1-Dichloropropene	970	180103	22.009
17.016	41.0+39.0	Isobutyl alcohol	895		N/A
17.164	65.0	1,2-Dichloroethane-d4 (Surr2)	995	108033	21.777
17.216	78.0	Benzene	974	496400	23.290
17.322	62.0+64.0	1,2-Dichloroethane	979	218156	22.014
17.333	73.0+55.0+87.0	tert-Amyl-methyl-ether	998	382344	21.043
18.479	130.0+132.0+95.0	Trichloroethene	999	565296	23.344
18.966	63.0+65.0	1,2-Dichloropropane	998	145167	22.632
19.074	41.0+39.0	Methyl methacrylate	805	134176	19.870
19.091	88.0	1,4-Dioxane	466		N/A
19.270	93.0+174.0	Dibromomethane	952	146645	23.669
19.542	83.0+85.0	Bromodichloromethane	998	307847	22.722
20.722	63.0+43.0	2-Chloroethyl vinyl ether	702	61093	21.248
20.455	75.0+77.0+39.0	c-1,3-Dichloropropene	997	393215	22.680
20.720	43.0+58.0	4-Methyl-2-pentanone	975	83692	21.526
21.025	98.0	Toluene-d8 (Surr3)	996	742284	25.243
21.185	92.0+91.0	Toluene	980	1.766E6	24.232
21.765	75.0+77.0	t-1,3-Dichloropropene	996	153744	23.050
21.782	69.0	Ethyl methacrylate	944	60841	22.137
22.278	97.0+99.0	1,1,2-Trichloroethane	994	154882	22.775
22.580	164.0+166.0	Tetrachloroethene	989	70830	24.274
22.743	76.0+41.0	1,3-Dichloropropane	984	220751	21.269
22.824	43.0+58.0+100.0	2-Hexanone	993	57068	18.783
23.446	129.0+127.0	Dibromochloromethane	997	178487	22.633
23.839	107.0+109.0	1,2-Dibromoethane	993	195013	22.617
24.895	91.0	1-Chlorohexane	496		N/A
25.162	112.0+114.0	Chlorobenzene	992	992228	23.844
25.352	106.0+91.0	Ethylbenzene	993	2.219E6	24.836
25.368	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	986	516090	25.570
25.674	106.0+91.0	p,m-Xylenes	996	4.497E6	50.144
26.836	106.0+91.0	o-Xylene	998	2.134E6	25.110
26.893	104.0+78.0	Styrene	987	1.146E6	23.961
27.576	171.0+173.0+175.0	Bromoform	998	123259	23.471

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.798	105.0+120.0	Isopropylbenzene	969	2.459E6	25.014
28.345	95.0	p-Bromofluorobenzene (Surr4)	975	356922	25.409
28.754	83.0+85.0	1,1,2,2-Tetrachloroethane	994	143739	21.258
28.898	75.0+110.0	1,2,3-Trichloropropane	903	105352	22.000
28.902	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	645	126730	22.667
28.113	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	925	97118	22.137
28.798	77.0+158.0	Bromobenzene	981	743538	22.930
28.918	91.0+120.0	n-Propylbenzene	981	2.770E6	24.814
29.251	91.0+126.0	2-Chlorotoluene	989	1.753E6	24.250
29.362	105.0+120.0	1,3,5-Trimethylbenzene	995	2.762E6	24.239
29.533	91.0+126.0	4-Chlorotoluene	989	1.735E6	24.762
30.227	119.0+91.0	tert-Butylbenzene	925	3.346E6	24.875
30.369	105.0+120.0	1,2,4-Trimethylbenzene	994	2.431E6	23.456
30.399	117.0	Pentachloroethane	971	133903	23.950
30.786	105.0+134.0	sec-Butylbenzene	979	2.738E6	25.062
31.131	119.0	4-Isopropyltoluene	918	2.014E6	24.962
31.209	146.0+148.0	1,3-Dichlorobenzene	994	1.111E6	23.964
31.430	146.0+148.0	1,4-Dichlorobenzene	995	966825	23.441
31.910	91.0	Benzyl Chloride	766		N/A
32.167	91.0+134.0	n-Butylbenzene	990	2.187E6	24.147
32.387	146.0+148.0	1,2-Dichlorobenzene	994	869758	23.029
34.292	75.0+157.0	1,2-Dibromo-3-chloropropane	987	55280	20.791
36.096	180.0+182.0	1,2,4-Trichlorobenzene	905	665336	22.540
36.354	225.0+226.0	Hexachlorobutadiene	967	449560	24.529
36.679	128.0	Naphthalene	998	331754	21.316
37.196	180.0+182.0	1,2,3-Trichlorobenzene	997	586857	22.776

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121437.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	25ppb 524.2 lcs 1	Acquisition Date:	10/16/2012 3:13:30 PM
Inj. Notes:	W#12090604	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.751	96.0+70.0	Fluorobenzene (IS1)	997	562386	25.000
25.057	117.0	Chlorobenzene-d5(IS2)	990	477782	25.000
31.350	152.0	1,4-Dichlorobenzene-d4(IS3)	988	260131	25.000
5.038	85.0	Dichlorodifluoromethane	998	205685	20.276
5.739	47.0+49.0+51.0	Chloromethane	881	57634	20.489
6.152	62.0+64.0	Vinyl Chloride	985	218349	25.275
7.447	94.0	Bromomethane	988	55081	27.341
7.872	49.0+45.0	Chloroethane	953	13322	21.476
8.812	101.0+103.0	Trichlorofluoromethane	998	497487	25.757
9.951	59.0	Ethyl ether	735	92	0.041
10.620	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	996	365975	24.521
10.665	61.0+96.0+98.0	1,1-Dichloroethene	997	568649	24.219
11.038	55.0+56.0	Acrolein	452		N/A
11.054	43.0+58.0	Acetone	802	16415	23.645
11.181	142.0	Iodomethane	964	33958	2.689
11.325	76.0	Carbon disulfide	764	2020	0.156
11.818	41.0+40.0	Acetonitrile	778		N/A
11.817	41.0+39.0	Allyl chloride	891		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	263		N/A
12.247	49.0	Methylene Chloride	986	263995	21.513
12.717	59.0	tert-Butanol	959	26939	122.418
12.891	73.0	Methyl-tert-butyl-ether (MTBE)	996	162135	21.907
12.926	61.0+96.0	t-1,2-Dichloroethene	955	461063	24.347

ALAB : 6012H

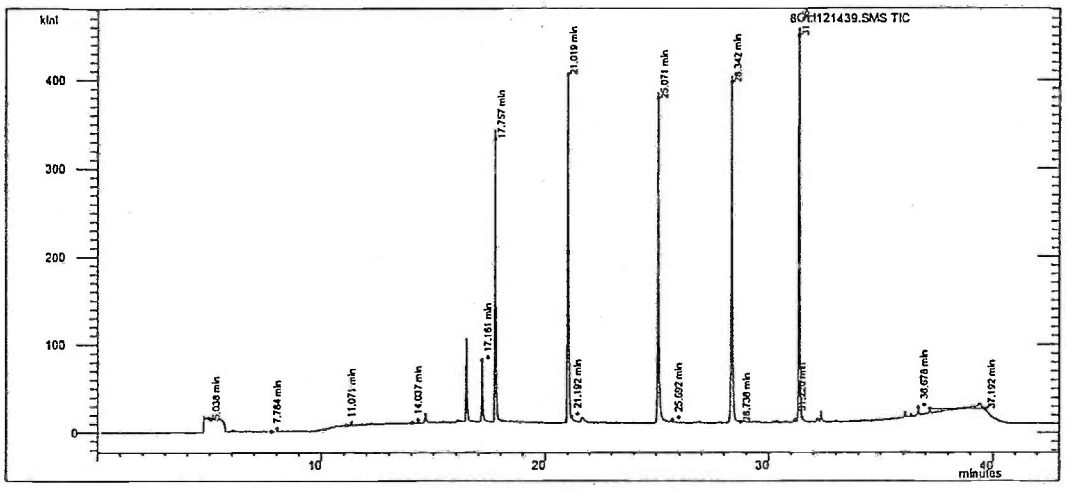
RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.892	53.0	Acrylonitrile	317	3084	8.692
13.472	55.9+41.0	n-Hexane	792		N/A
14.031	63.0	1,1-Dichloroethane	998	272815	22.322
14.064	45.0	Isopropyl ether	943	422651	23.569
14.176	53.0	Chloroprene	174		N/A
14.042	43.0	Vinyl acetate	762		N/A
14.904	59.0	Ethyl-tert-butyl-ether	996	412918	23.935
15.332	77.0	2,2-Dichloropropane	999	206971	23.146
15.399	96.0	c-1,2-Dichloroethene	999	153194	23.758
15.487	43.0+72.0	2-Butanone (MEK)	771	15226	17.510
15.701	54.0+55.0	Propionitrile	410	15	0.015
15.951	130.0+49.0	Bromochloromethane	994	171707	22.759
15.692	39.0+41.0+71.0	Tetrahydrofuran	482		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	625		N/A
16.096	83.0+85.0	Chloroform	978	426693	22.143
16.415	97.0+99.0	1,1,1-Trichloroethane	999	623057	25.158
16.446	111.0	Dibromofluoromethane (Surr1)	994	95619	23.541
16.742	117.0+119.0	Carbon Tetrachloride	995	528279	25.187
16.751	75.0	1,1-Dichloropropene	972	171429	22.998
17.016	41.0+39.0	Isobutyl alcohol	461		N/A
17.152	65.0	1,2-Dichloroethane-d4 (Surr2)	990	99132	21.937
17.203	78.0	Benzene	974	460033	23.694
17.308	62.0+64.0	1,2-Dichloroethane	981	204307	22.632
17.319	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	362924	21.928
18.467	130.0+132.0+95.0	Trichloroethene	999	537047	23.714
18.952	63.0+65.0	1,2-Dichloropropane	998	133139	22.195
18.951	41.0+39.0	Methyl methacrylate	619	220370	34.896
19.091	88.0	1,4-Dioxane	594		N/A
19.258	93.0+174.0	Dibromomethane	949	133667	23.069
19.529	83.0+85.0	Bromodichloromethane	999	306483	24.189
20.709	63.0+43.0	2-Chloroethyl vinyl ether	565	62126	23.104
20.442	75.0+77.0+39.0	c-1,3-Dichloropropene	997	372978	23.004
20.708	43.0+58.0	4-Methyl-2-pentanone	979	85521	23.521
21.011	98.0	Toluene-d8 (Surr3)	997	683312	24.848
21.171	92.0+91.0	Toluene	979	1.712E6	25.120
21.750	75.0+77.0	t-1,3-Dichloropropene	881	138878	22.264
21.729	69.0	Ethyl methacrylate	676	4404	1.714
22.262	97.0+99.0	1,1,2-Trichloroethane	994	144656	22.745
22.566	164.0+166.0	Tetrachloroethene	990	67180	24.618
22.725	76.0+41.0	1,3-Dichloropropane	985	214915	22.142
22.806	43.0+58.0+100.0	2-Hexanone	981	59566	20.963
23.429	129.0+127.0	Dibromochloromethane	997	176386	23.916
23.824	107.0+109.0	1,2-Dibromoethane	996	187207	23.216
24.895	91.0	1-Chlorohexane	371		N/A
25.141	112.0+114.0	Chlorobenzene	991	980214	25.187
25.334	106.0+91.0	Ethylbenzene	992	2.168E6	25.348
25.348	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	985	487805	25.247
25.654	106.0+91.0	p,m-Xylenes	996	4.489E6	52.295
26.817	106.0+91.0	o-Xylene	997	2.163E6	26.591
26.874	104.0+78.0	Styrene	987	1.133E6	24.738
27.559	171.0+173.0+175.0	Bromoform	996	120124	23.895

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.781	105.0+120.0	Isopropylbenzene	986	2.502E6	26.584
28.330	95.0	p-Bromofluorobenzene (Surr4)	988	342990	25.507
28.737	83.0+85.0	1,1,2,2-Tetrachloroethane	994	139329	21.525
28.880	75.0+110.0	1,2,3-Trichloropropane	881	85887	18.735
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	286		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	627		N/A
28.779	77.0+158.0	Bromobenzene	973	767953	24.740
28.900	91.0+120.0	n-Propylbenzene	982	2.763E6	25.860
29.233	91.0+126.0	2-Chlorotoluene	990	1.824E6	26.354
29.343	105.0+120.0	1,3,5-Trimethylbenzene	996	2.788E6	25.555
29.515	91.0+126.0	4-Chlorotoluene	987	1.722E6	25.678
30.209	119.0+91.0	tert-Butylbenzene	922	3.426E6	26.609
30.351	105.0+120.0	1,2,4-Trimethylbenzene	995	2.497E6	25.171
30.355	117.0	Pentachloroethane	376	32522	6.076
30.768	105.0+134.0	sec-Butylbenzene	980	2.782E6	26.608
31.112	119.0	4-Isopropyltoluene	959	1.861E6	24.095
31.190	146.0+148.0	1,3-Dichlorobenzene	993	1.093E6	24.632
31.411	146.0+148.0	1,4-Dichlorobenzene	995	928659	23.520
31.910	91.0	Benzyl Chloride	466		N/A
32.149	91.0+134.0	n-Butylbenzene	990	2.201E6	25.385
32.369	146.0+148.0	1,2-Dichlorobenzene	995	877135	24.261
34.271	75.0+157.0	1,2-Dibromo-3-chloropropane	989	54844	21.548
36.073	180.0+182.0	1,2,4-Trichlorobenzene	903	686169	24.283
36.329	225.0+226.0	Hexachlorobutadiene	974	469219	26.744
36.656	128.0	Naphthalene	999	373081	25.041
37.174	180.0+182.0	1,2,3-Trichlorobenzene	996	591704	23.989

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121439.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	Method Blank 1	Acquisition Date:	10/16/2012 4:45:19 PM
Inj. Notes:		Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.757	96.0+70.0	Fluorobenzene (IS1)	998	597845	25.000
25.071	117.0	Chlorobenzene-d5(IS2)	991	484376	25.000
31.364	152.0	1,4-Dichlorobenzene-d4(IS3)	989	258732	25.000
5.038	85.0	Dichlorodifluoromethane	805	329	0.031
5.725	47.0+49.0+51.0	Chloromethane	751		N/A
6.146	62.0+64.0	Vinyl Chloride	866	257	0.028
7.465	94.0	Bromomethane	895	58	0.027
7.764	49.0+45.0	Chloroethane	758	242	0.367
8.820	101.0+103.0	Trichlorofluoromethane	966	696	0.034
9.955	59.0	Ethyl ether	765	41	0.017
10.600	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	847		N/A
10.671	61.0+96.0+98.0	1,1-Dichloroethene	952	1974	0.079
11.038	55.0+56.0	Acrolein	260		N/A
11.071	43.0+58.0	Acetone	731	1481	2.007
11.173	142.0	Iodomethane	944	502	0.037
11.333	76.0	Carbon disulfide	691	759	0.055
11.818	41.0+40.0	Acetonitrile	627		N/A
11.817	41.0+39.0	Allyl chloride	717		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	245		N/A
12.253	49.0	Methylene Chloride	912	2586	0.198
12.701	59.0	tert-Butanol	666		N/A
12.911	73.0	Methyl-tert-butyl-ether (MTBE)	738	374	0.048
12.939	61.0+96.0	t-1,2-Dichloroethene	877	1364	0.068

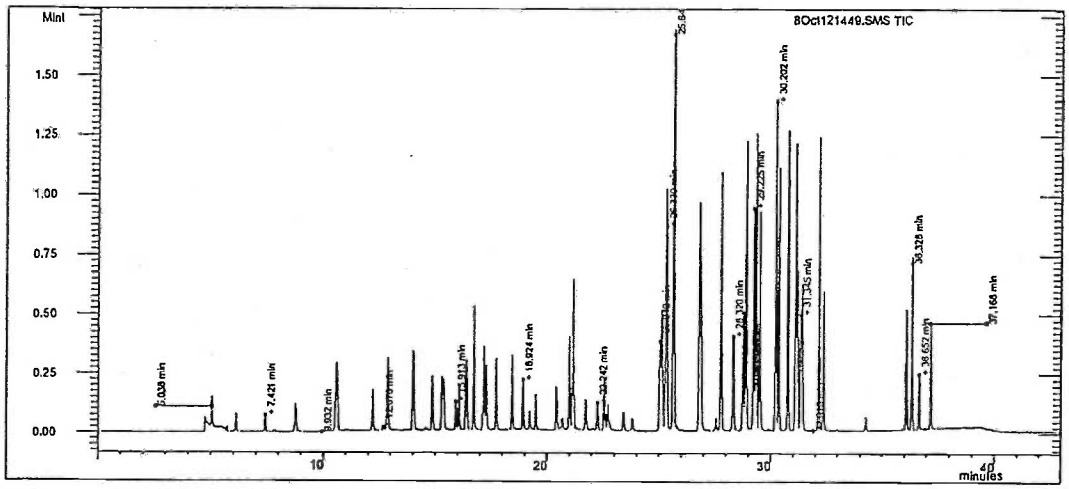
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.129	53.0	Acrylonitrile	436	45	0.120
13.472	55.9+41.0	n-Hexane	606		N/A
14.037	63.0	1,1-Dichloroethane	962	930	0.072
14.049	45.0	Isopropyl ether	592		N/A
14.176	53.0	Chloroprene	441		N/A
14.042	43.0	Vinyl acetate	877		N/A
14.917	59.0	Ethyl-tert-butyl-ether	554	222	0.012
15.320	77.0	2,2-Dichloropropane	779		N/A
15.425	96.0	c-1,2-Dichloroethene	975	1104	0.161
15.464	43.0+72.0	2-Butanone (MEK)	139		N/A
15.609	54.0+55.0	Propionitrile	147		N/A
15.969	130.0+49.0	Bromochloromethane	909	686	0.085
15.692	39.0+41.0+71.0	Tetrahydrofuran	456		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	467		N/A
16.109	83.0+85.0	Chloroform	790	1884	0.092
16.413	97.0+99.0	1,1,1-Trichloroethane	617	545	0.021
16.450	111.0	Dibromofluoromethane (Surr1)	990	103762	24.030
16.727	117.0+119.0	Carbon Tetrachloride	739		N/A
16.734	75.0	1,1-Dichloropropene	887		N/A
17.016	41.0+39.0	Isobutyl alcohol	380		N/A
17.161	65.0	1,2-Dichloroethane-d4 (Surr2)	996	115571	24.058
17.216	78.0	Benzene	666	1255	0.061
17.335	62.0+64.0	1,2-Dichloroethane	545	838	0.087
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	638		N/A
18.488	130.0+132.0+95.0	Trichloroethene	961	1842	0.080
18.971	63.0+65.0	1,2-Dichloropropane	726	336	0.055
18.955	41.0+39.0	Methyl methacrylate	538	1588	0.248
19.091	88.0	1,4-Dioxane	369		N/A
19.287	93.0+174.0	Dibromomethane	925	503	0.086
19.513	83.0+85.0	Bromodichloromethane	807		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	436		N/A
20.506	75.0+77.0+39.0	c-1,3-Dichloropropene	567	218	0.013
20.679	43.0+58.0	4-Methyl-2-pentanone	294		N/A
21.019	98.0	Toluene-d8 (Surr3)	997	720745	25.852
21.192	92.0+91.0	Toluene	932	5678	0.082
21.721	75.0+77.0	t-1,3-Dichloropropene	440		N/A
21.740	69.0	Ethyl methacrylate	407		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	806		N/A
22.586	164.0+166.0	Tetrachloroethene	965	45	0.016
22.704	76.0+41.0	1,3-Dichloropropane	695		N/A
22.778	43.0+58.0+100.0	2-Hexanone	339		N/A
23.402	129.0+127.0	Dibromochloromethane	639		N/A
23.893	107.0+109.0	1,2-Dibromoethane	851	158	0.019
24.895	91.0	1-Chlorohexane	354		N/A
25.177	112.0+114.0	Chlorobenzene	656	596	0.015
25.371	106.0+91.0	Ethylbenzene	938	2349	0.028
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	578		N/A
25.692	106.0+91.0	p,m-Xylenes	965	5868	0.069
26.852	106.0+91.0	o-Xylene	883	2510	0.031
26.945	104.0+78.0	Styrene	884	857	0.019
27.591	171.0+173.0+175.0	Bromoform	640	74	0.015

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.800	105.0+120.0	Isopropylbenzene	916	1365	0.015
28.342	95.0	p-Bromofluorobenzene (Surr4)	974	339976	25.420
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	776		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	601		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	517		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	243		N/A
28.812	77.0+158.0	Bromobenzene	933	1475	0.048
28.935	91.0+120.0	n-Propylbenzene	898	2865	0.027
29.263	91.0+126.0	2-Chlorotoluene	927	1657	0.024
29.368	105.0+120.0	1,3,5-Trimethylbenzene	952	3398	0.031
29.555	91.0+126.0	4-Chlorotoluene	946	3424	0.051
30.229	119.0+91.0	tert-Butylbenzene	766	3235	0.025
30.378	105.0+120.0	1,2,4-Trimethylbenzene	967	5579	0.057
30.364	117.0	Pentachloroethane	492		N/A
30.788	105.0+134.0	sec-Butylbenzene	916	3565	0.034
31.129	119.0	4-Isopropyltoluene	897	4267	0.056
31.220	146.0+148.0	1,3-Dichlorobenzene	988	4150	0.094
31.436	146.0+148.0	1,4-Dichlorobenzene	564	3627	0.092
31.910	91.0	Benzyl Chloride	599		N/A
32.176	91.0+134.0	n-Butylbenzene	954	6407	0.074
32.393	146.0+148.0	1,2-Dichlorobenzene	950	3335	0.093
34.299	75.0+157.0	1,2-Dibromo-3-chloropropane	628	217	0.086
36.099	180.0+182.0	1,2,4-Trichlorobenzene	889	6656	0.237
36.347	225.0+226.0	Hexachlorobutadiene	963	2133	0.122
36.678	128.0	Naphthalene	995	11714	0.790
37.192	180.0+182.0	1,2,3-Trichlorobenzene	989	5572	0.227

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121449.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	MS_311995-007_10ml	**Acquisition Date:**	10/17/2012 12:28:14 AM
Inj. Notes:	W#12090604	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.720	96.0+70.0	Fluorobenzene (IS1)	998	565290	25.000
25.042	117.0	Chlorobenzene-d5(IS2)	989	482890	25.000
31.345	152.0	1,4-Dichlorobenzene-d4(IS3)	985	277522	25.000
5.038	85.0	Dichlorodifluoromethane	993	181859	17.835
5.725	47.0+49.0+51.0	Chloromethane	878	53931	19.074
6.128	62.0+64.0	Vinyl Chloride	984	197113	22.700
7.421	94.0	Bromomethane	987	47544	23.478
7.832	49.0+45.0	Chloroethane	948	11210	17.978
8.767	101.0+103.0	Trichlorofluoromethane	998	454845	23.429
9.932	59.0	Ethyl ether	585		N/A
10.570	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	997	323900	21.591
10.617	61.0+96.0+98.0	1,1-Dichloroethene	998	536350	22.726
11.038	55.0+56.0	Acrolein	232		N/A
11.008	43.0+58.0	Acetone	899	15538	22.267
11.131	142.0	Iodomethane	963	11255	0.887
11.277	76.0	Carbon disulfide	668	1878	0.145
11.818	41.0+40.0	Acetonitrile	240		N/A
11.817	41.0+39.0	Allyl chloride	780		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	132		N/A
12.198	49.0	Methylene Chloride	984	255801	20.738
12.676	59.0	tert-Butanol	954	27629	124.910
12.847	73.0	Methyl-tert-butyl-ether (MTBE)	998	163192	21.937
12.880	61.0+96.0	t-1,2-Dichloroethene	949	415758	21.842

ALAB : 00130

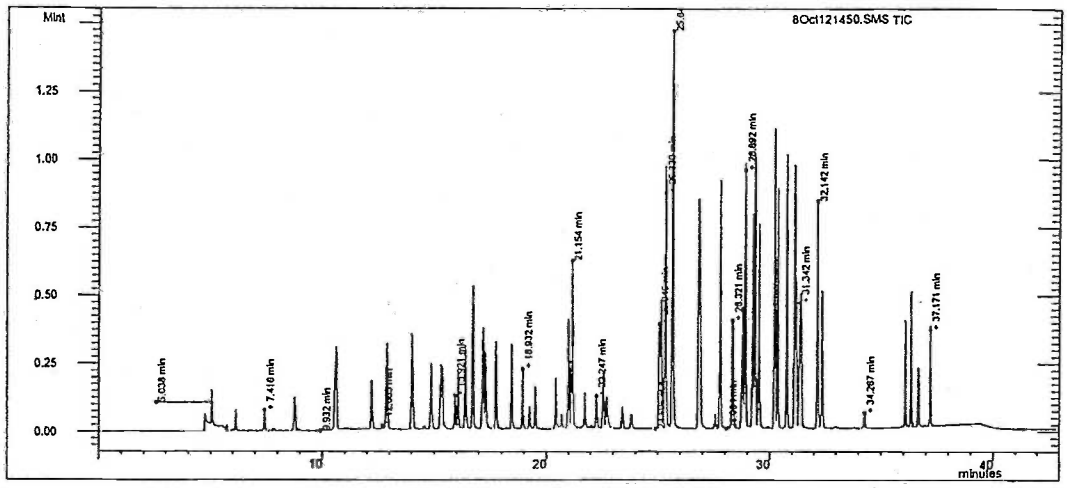
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	276		N/A
13.472	55.9+41.0	n-Hexane	921		N/A
13.988	63.0	1,1-Dichloroethane	998	267824	21.801
14.022	45.0	Isopropyl ether	943	417058	23.138
14.176	53.0	Chloroprene	481		N/A
14.042	43.0	Vinyl acetate	783		N/A
14.866	59.0	Ethyl-tert-butyl-ether	996	416233	24.003
15.292	77.0	2,2-Dichloropropane	998	187952	20.911
15.360	96.0	c-1,2-Dichloroethene	998	142423	21.974
15.451	43.0+72.0	2-Butanone (MEK)	783	16544	18.928
15.609	54.0+55.0	Propionitrile	283		N/A
15.913	130.0+49.0	Bromochloromethane	995	179722	23.699
15.692	39.0+41.0+71.0	Tetrahydrofuran	485		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	598		N/A
16.059	83.0+85.0	Chloroform	961	421995	21.787
16.379	97.0+99.0	1,1,1-Trichloroethane	999	556830	22.369
16.410	111.0	Dibromofluoromethane (Surr1)	996	95992	23.511
16.709	117.0+119.0	Carbon Tetrachloride	993	474863	22.524
16.716	75.0	1,1-Dichloropropene	968	160383	21.406
17.016	41.0+39.0	Isobutyl alcohol	290		N/A
17.119	65.0	1,2-Dichloroethane-d4 (Surr2)	996	97692	21.507
17.170	78.0	Benzene	973	422792	21.664
17.276	62.0+64.0	1,2-Dichloroethane	977	199065	21.939
17.288	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	362430	21.785
18.439	130.0+132.0+95.0	Trichloroethene	999	489619	21.391
18.926	63.0+65.0	1,2-Dichloropropane	998	133085	21.951
18.924	41.0+39.0	Methyl methacrylate	715	215053	33.693
19.091	88.0	1,4-Dioxane	308		N/A
19.230	93.0+174.0	Dibromomethane	946	134721	23.005
19.502	83.0+85.0	Bromodichloromethane	999	296969	23.190
20.685	63.0+43.0	2-Chloroethyl vinyl ether	594	62534	23.010
20.416	75.0+77.0+39.0	c-1,3-Dichloropropene	997	342372	20.893
20.684	43.0+58.0	4-Methyl-2-pentanone	975	85656	23.309
20.985	98.0	Toluene-d8 (Surr3)	996	669808	24.099
21.147	92.0+91.0	Toluene	979	1.616E6	23.459
21.725	75.0+77.0	t-1,3-Dichloropropene	836	137808	21.859
21.705	69.0	Ethyl methacrylate	654	3605	1.388
22.242	97.0+99.0	1,1,2-Trichloroethane	995	147996	23.024
22.541	164.0+166.0	Tetrachloroethene	990	62249	22.570
22.705	76.0+41.0	1,3-Dichloropropane	984	218927	22.316
22.785	43.0+58.0+100.0	2-Hexanone	993	59160	20.600
23.408	129.0+127.0	Dibromochloromethane	997	173929	23.333
23.804	107.0+109.0	1,2-Dibromoethane	992	184874	22.684
24.895	91.0	1-Chlorohexane	294		N/A
25.128	112.0+114.0	Chlorobenzene	992	966178	24.564
25.321	106.0+91.0	Ethylbenzene	992	1.961E6	21.489
25.339	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	985	468404	22.724
25.644	106.0+91.0	p,m-Xylenes	996	4.178E6	45.620
26.807	106.0+91.0	o-Xylene	998	2.010E6	23.164
26.866	104.0+78.0	Styrene	987	1.075E6	22.005
27.549	171.0+173.0+175.0	Bromoform	998	119223	22.229

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.771	105.0+120.0	Isopropylbenzene	969	2.224E6	22.154
28.320	95.0	p-Bromofluorobenzene (Surr4)	980	352637	24.581
28.730	83.0+85.0	1,1,2,2-Tetrachloroethane	995	142932	20.698
28.871	75.0+110.0	1,2,3-Trichloropropane	895	90219	18.447
28.879	88.0+89.0+53.0	trans-1;4-Dichloro-2-butene	286		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	491		N/A
28.771	77.0+158.0	Bromobenzene	975	734861	22.190
28.891	91.0+120.0	n-Propylbenzene	982	2.488E6	21.824
29.225	91.0+126.0	2-Chlorotoluene	990	1.758E6	23.808
29.336	105.0+120.0	1,3,5-Trimethylbenzene	996	2.477E6	21.286
29.508	91.0+126.0	4-Chlorotoluene	988	1.555E6	21.726
30.202	119.0+91.0	tert-Butylbenzene	920	2.978E6	21.679
30.345	105.0+120.0	1,2,4-Trimethylbenzene	995	2.137E6	20.189
30.344	117.0	Pentachloroethane	470	28783	5.041
30.761	105.0+134.0	sec-Butylbenzene	979	2.390E6	21.423
31.105	119.0	4-Isopropyltoluene	956	1.609E6	19.528
31.185	146.0+148.0	1,3-Dichlorobenzene	994	998132	21.090
31.406	146.0+148.0	1,4-Dichlorobenzene	994	847322	20.115
31.910	91.0	Benzyl Chloride	681		N/A
32.143	91.0+134.0	n-Butylbenzene	990	1.769E6	19.124
32.363	146.0+148.0	1,2-Dichlorobenzene	994	832541	21.584
34.268	75.0+157.0	1,2-Dibromo-3-chloropropane	988	55535	20.452
36.072	180.0+182.0	1,2,4-Trichlorobenzene	901	577923	19.170
36.328	225.0+226.0	Hexachlorobutadiene	969	336934	18.001
36.652	128.0	Naphthalene	997	334371	21.036
37.168	180.0+182.0	1,2,3-Trichlorobenzene	996	497971	18.924

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121450.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	MSD_311995-007_10ml	Acquisition Date:	10/17/2012 1:14:56 AM
Inj. Notes:	W#12090604	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.728	96.0+70.0	Fluorobenzene (IS1)	997	588200	25.000
25.046	117.0	Chlorobenzene-d5(IS2)	989	480902	25.000
31.342	152.0	1,4-Dichlorobenzene-d4(IS3)	985	273126	25.000
5.038	85.0	Dichlorodifluoromethane	993	191016	18.003
5.727	47.0+49.0+51.0	Chloromethane	882	55438	18.844
6.131	62.0+64.0	Vinyl Chloride	991	206007	22.800
7.416	94.0	Bromomethane	979	51849	24.607
7.832	49.0+45.0	Chloroethane	943	12081	18.622
8.769	101.0+103.0	Trichlorofluoromethane	997	478445	23.684
9.932	59.0	Ethyl ether	612		N/A
10.575	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	994	340866	21.837
10.621	61.0+96.0+98.0	1,1-Dichloroethene	996	560534	22.826
11.038	55.0+56.0	Acrolein	218		N/A
11.011	43.0+58.0	Acetone	852	16860	23.220
11.140	142.0	Iodomethane	963	10942	0.828
11.283	76.0	Carbon disulfide	732	1623	0.120
11.818	41.0+40.0	Acetonitrile	346		N/A
11.817	41.0+39.0	Allyl chloride	737		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	309		N/A
12.204	49.0	Methylene Chloride	984	266509	20.765
12.683	59.0	tert-Butanol	957	30124	130.883
12.852	73.0	Methyl-tert-butyl-ether (MTBE)	998	172405	22.273
12.885	61.0+96.0	t-1,2-Dichloroethene	957	433684	21.896

ALAB : 00133

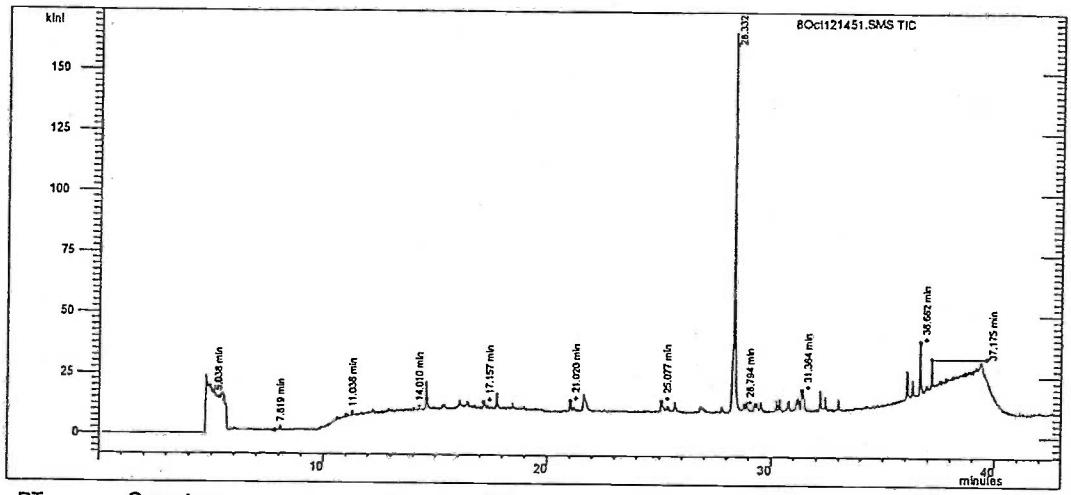
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	283		N/A
13.472	55.9+41.0	n-Hexane	654		N/A
13.994	63.0	1,1-Dichloroethane	992	283485	22.177
14.027	45.0	Isopropyl ether	940	441647	23.547
14.176	53.0	Chloroprene	373		N/A
14.042	43.0	Vinyl acetate	893		N/A
14.872	59.0	Ethyl-tert-butyl-ether	997	440642	24.421
15.301	77.0	2,2-Dichloropropane	999	200173	21.403
15.368	96.0	c-1,2-Dichloroethene	998	151911	22.525
15.472	43.0+72.0	2-Butanone (MEK)	802	16996	18.688
15.609	54.0+55.0	Propionitrile	610		N/A
15.921	130.0+49.0	Bromochloromethane	993	185893	23.558
15.692	39.0+41.0+71.0	Tetrahydrofuran	479		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	507		N/A
16.067	83.0+85.0	Chloroform	978	444589	22.059
16.386	97.0+99.0	1,1,1-Trichloroethane	999	578834	22.347
16.418	111.0	Dibromofluoromethane (Surr1)	994	99080	23.322
16.715	117.0+119.0	Carbon Tetrachloride	995	492075	22.432
16.724	75.0	1,1-Dichloropropene	969	162025	20.782
17.016	41.0+39.0	Isobutyl alcohol	323		N/A
17.127	65.0	1,2-Dichloroethane-d4 (Surr2)	987	99990	21.156
17.178	78.0	Benzene	973	438393	21.589
17.283	62.0+64.0	1,2-Dichloroethane	978	205668	21.783
17.295	73.0+55.0+87.0	tert-Amyl-methyl-ether	998	376687	21.760
18.446	130.0+132.0+95.0	Trichloroethene	999	486275	21.333
18.934	63.0+65.0	1,2-Dichloropropane	998	136156	22.550
18.932	41.0+39.0	Methyl methacrylate	706	226609	35.651
19.091	88.0	1,4-Dioxane	545		N/A
19.237	93.0+174.0	Dibromomethane	943	141561	24.273
19.510	83.0+85.0	Bromodichloromethane	998	311664	24.438
20.694	63.0+43.0	2-Chloroethyl vinyl ether	637	65819	24.319
20.425	75.0+77.0+39.0	c-1,3-Dichloropropene	996	353512	21.661
20.693	43.0+58.0	4-Methyl-2-pentanone	980	89865	24.555
20.995	98.0	Toluene-d8 (Surr3)	989	685015	24.748
21.154	92.0+91.0	Toluene	979	1.554E6	22.657
21.736	75.0+77.0	t-1,3-Dichloropropene	823	137773	21.944
21.716	69.0	Ethyl methacrylate	581	3224	1.246
22.247	97.0+99.0	1,1,2-Trichloroethane	995	151595	23.681
22.552	164.0+166.0	Tetrachloroethene	989	59624	21.707
22.711	76.0+41.0	1,3-Dichloropropane	991	222130	22.736
22.790	43.0+58.0+100.0	2-Hexanone	991	61388	21.464
23.414	129.0+127.0	Dibromochloromethane	997	177942	23.970
23.810	107.0+109.0	1,2-Dibromoethane	995	188165	23.184
24.895	91.0	1-Chlorohexane	424		N/A
25.132	112.0+114.0	Chlorobenzene	992	891584	22.761
25.324	106.0+91.0	Ethylbenzene	992	1.751E6	19.499
25.339	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	985	472011	23.267
25.646	106.0+91.0	p,m-Xylenes	996	3.681E6	40.841
26.808	106.0+91.0	o-Xylene	997	1.813E6	21.232
26.866	104.0+78.0	Styrene	986	951234	19.785
27.550	171.0+173.0+175.0	Bromoform	997	117106	22.186

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.772	105.0+120.0	Isopropylbenzene	970	1.863E6	18.858
28.321	95.0	p-Bromofluorobenzene (Surr4)	985	345328	24.459
28.730	83.0+85.0	1,1,2,2-Tetrachloroethane	994	145412	21.396
28.872	75.0+110.0	1,2,3-Trichloropropane	904	89131	18.518
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	289		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	482		N/A
28.772	77.0+158.0	Bromobenzene	973	667936	20.494
28.892	91.0+120.0	n-Propylbenzene	981	2.011E6	17.928
29.226	91.0+126.0	2-Chlorotoluene	990	1.480E6	20.370
29.336	105.0+120.0	1,3,5-Trimethylbenzene	996	1.990E6	17.372
29.508	91.0+126.0	4-Chlorotoluene	988	1.284E6	18.237
30.201	119.0+91.0	tert-Butylbenzene	916	2.395E6	17.715
30.345	105.0+120.0	1,2,4-Trimethylbenzene	994	1.716E6	16.479
30.345	117.0	Pentachloroethane	612	31913	5.679
30.760	105.0+134.0	sec-Butylbenzene	976	1.824E6	16.617
31.105	119.0	4-Isopropyltoluene	958	1.208E6	14.900
31.183	146.0+148.0	1,3-Dichlorobenzene	994	818326	17.569
31.405	146.0+148.0	1,4-Dichlorobenzene	994	688564	16.610
31.910	91.0	Benzyl Chloride	458		N/A
32.142	91.0+134.0	n-Butylbenzene	974	1.243E6	13.653
32.363	146.0+148.0	1,2-Dichlorobenzene	995	703550	18.534
34.267	75.0+157.0	1,2-Dibromo-3-chloropropane	989	55858	20.902
36.072	180.0+182.0	1,2,4-Trichlorobenzene	901	457564	15.422
36.331	225.0+226.0	Hexachlorobutadiene	966	244131	13.253
36.654	128.0	Naphthalene	998	310549	19.852
37.171	180.0+182.0	1,2,3-Trichlorobenzene	996	408048	15.756

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121451.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	10ppb 524.2 tune 2	Acquisition Date:	10/17/2012 2:00:53 AM
Inj. Notes:	W#12062101	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.751	96.0+70.0	Fluorobenzene (IS1)	989	10592	25.000
25.077	117.0	Chlorobenzene-d5(IS2)	988	5316	25.000
31.364	152.0	1,4-Dichlorobenzene-d4(IS3)	979	5214	25.000
5.038	85.0	Dichlorodifluoromethane	862	428	2.238
5.730	47.0+49.0+51.0	Chloromethane	601	191	3.614
6.137	62.0+64.0	Vinyl Chloride	882	352	2.163
7.439	94.0	Bromomethane	898	119	3.135
7.819	49.0+45.0	Chloroethane	691	63	5.364
8.787	101.0+103.0	Trichlorofluoromethane	957	858	2.359
9.917	59.0	Ethyl ether	836	49	1.168
10.591	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	907	455	1.619
10.637	61.0+96.0+98.0	1,1-Dichloroethene	953	2379	5.381
11.038	55.0+56.0	Acrolein	233		N/A
11.036	43.0+58.0	Acetone	690	1647	125.976
11.148	142.0	Iodomethane	950	307	1.291
11.292	76.0	Carbon disulfide	686	680	2.798
11.818	41.0+40.0	Acetonitrile	784		N/A
11.817	41.0+39.0	Allyl chloride	790		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	255		N/A
12.223	49.0	Methylene Chloride	741	1685	7.292
12.728	59.0	tert-Butanol	389	244	58.921
12.878	73.0	Methyl-tert-butyl-ether (MTBE)	804	322	2.313
12.909	61.0+96.0	t-1,2-Dichloroethene	806	1656	4.644

ALAB : 99136

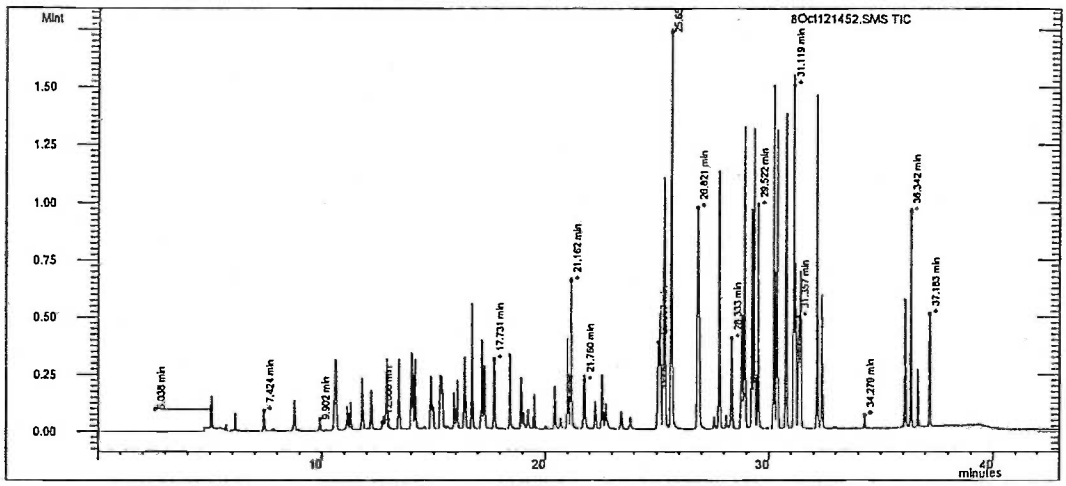
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	443		N/A
13.472	55.9+41.0	n-Hexane	590		N/A
14.010	63.0	1,1-Dichloroethane	960	997	4.329
14.049	45.0	Isopropyl ether	824	429	1.270
14.176	53.0	Chloroprene	541		N/A
14.042	43.0	Vinyl acetate	634		N/A
14.892	59.0	Ethyl-tert-butyl-ether	419	519	1.596
15.314	77.0	2,2-Dichloropropane	675	388	2.302
15.392	96.0	c-1,2-Dichloroethene	850	1091	8.983
15.464	43.0+72.0	2-Butanone (MEK)	307		N/A
15.609	54.0+55.0	Propionitrile	546		N/A
15.951	130.0+49.0	Bromochloromethane	905	850	5.981
15.692	39.0+41.0+71.0	Tetrahydrofuran	288		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	508		N/A
16.084	83.0+85.0	Chloroform	895	3734	10.289
16.403	97.0+99.0	1,1,1-Trichloroethane	901	1046	2.242
16.436	111.0	Dibromofluoromethane (Surr1)	981	2205	28.824
16.727	117.0+119.0	Carbon Tetrachloride	899		N/A
16.734	75.0	1,1-Dichloropropene	905		N/A
17.016	41.0+39.0	Isobutyl alcohol	381		N/A
17.157	65.0	1,2-Dichloroethane-d4 (Surr2)	982	3134	36.822
17.198	78.0	Benzene	925	1064	2.909
17.317	62.0+64.0	1,2-Dichloroethane	834	970	5.703
17.315	73.0+55.0+87.0	tert-Amyl-methyl-ether	886	449	1.442
18.471	130.0+132.0+95.0	Trichloroethene	994	2862	11.359
18.955	63.0+65.0	1,2-Dichloropropane	815	247	3.701
18.939	41.0+39.0	Methyl methacrylate	466		N/A
19.091	88.0	1,4-Dioxane	490		N/A
19.273	93.0+174.0	Dibromomethane	923	918	14.248
19.525	83.0+85.0	Bromodichloromethane	948	590	4.183
20.759	63.0+43.0	2-Chloroethyl vinyl ether	643	652	21.781
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	577		N/A
20.756	43.0+58.0	4-Methyl-2-pentanone	759	922	22.779
21.020	98.0	Toluene-d8 (Surr3)	956	8156	26.657
21.182	92.0+91.0	Toluene	949	4396	5.796
21.721	75.0+77.0	t-1,3-Dichloropropene	485		N/A
21.740	69.0	Ethyl methacrylate	302		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	942		N/A
22.566	164.0+166.0	Tetrachloroethene	982	167	5.487
22.704	76.0+41.0	1,3-Dichloropropane	609		N/A
22.914	43.0+58.0+100.0	2-Hexanone	468	123	3.906
23.402	129.0+127.0	Dibromochloromethane	898		N/A
23.807	107.0+109.0	1,2-Dibromoethane	863		N/A
24.895	91.0	1-Chlorohexane	439		N/A
25.166	112.0+114.0	Chlorobenzene	965	2698	6.231
25.353	106.0+91.0	Ethylbenzene	933	3861	2.252
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	872		N/A
25.676	106.0+91.0	p,m-Xylenes	979	8997	5.229
26.829	106.0+91.0	o-Xylene	912	4846	2.973
26.915	104.0+78.0	Styrene	938	2533	2.760
27.570	171.0+173.0+175.0	Bromoform	815	265	2.634

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.787	105.0+120.0	Isopropylbenzene	931	4547	2.411
28.332	95.0	p-Bromofluorobenzene (Surr4)	991	140969	523.079
28.740	83.0+85.0	1,1,2,2-Tetrachloroethane	922	578	4.456
28.872	75.0+110.0	1,2,3-Trichloropropane	796		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	368		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	131		N/A
28.794	77.0+158.0	Bromobenzene	971	3218	5.173
28.914	91.0+120.0	n-Propylbenzene	966	6899	3.221
29.246	91.0+126.0	2-Chlorotoluene	972	4474	3.226
29.349	105.0+120.0	1,3,5-Trimethylbenzene	975	7467	3.415
29.539	91.0+126.0	4-Chlorotoluene	979	7990	5.944
30.211	119.0+91.0	tert-Butylbenzene	796	9683	3.752
30.364	105.0+120.0	1,2,4-Trimethylbenzene	983	9690	4.874
30.364	117.0	Pentachloroethane	453		N/A
30.773	105.0+134.0	sec-Butylbenzene	931	8256	3.940
31.120	119.0	4-Isopropyltoluene	947	7318	4.727
31.205	146.0+148.0	1,3-Dichlorobenzene	988	7505	8.441
31.429	146.0+148.0	1,4-Dichlorobenzene	975	7573	9.570
31.910	91.0	Benzyl Chloride	578		N/A
32.157	91.0+134.0	n-Butylbenzene	959	12955	7.456
32.380	146.0+148.0	1,2-Dichlorobenzene	992	7844	10.825
34.278	75.0+157.0	1,2-Dibromo-3-chloropropane	900	802	15.727
36.078	180.0+182.0	1,2,4-Trichlorobenzene	883	12484	22.044
36.331	225.0+226.0	Hexachlorobutadiene	962	3342	9.504
36.662	128.0	Naphthalene	997	27478	92.023
37.175	180.0+182.0	1,2,3-Trichlorobenzene	995	11301	22.861

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121452.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	25ppb 524.2 ccv 2	Acquisition Date:	10/17/2012 2:47:48 AM
Inj. Notes:	W#1290602	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.731	96.0+70.0	Fluorobenzene (IS1)	998	573547	25.000
25.057	117.0	Chlorobenzene-d5(IS2)	990	474048	25.000
31.357	152.0	1,4-Dichlorobenzene-d4(IS3)	986	271571	25.000
5.038	85.0	Dichlorodifluoromethane	992	220759	21.338
5.726	47.0+49.0+51.0	Chloromethane	877	66758	23.271
6.129	62.0+64.0	Vinyl Chloride	985	199748	22.672
7.424	94.0	Bromomethane	975	64688	31.484
7.830	49.0+45.0	Chloroethane	953	13684	21.630
8.767	101.0+103.0	Trichlorofluoromethane	997	510960	25.940
9.902	59.0	Ethyl ether	956	54293	23.986
10.571	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	997	365025	23.982
10.620	61.0+96.0+98.0	1,1-Dichloroethene	998	548936	22.925
11.038	55.0+56.0	Acrolein	145		N/A
11.013	43.0+58.0	Acetone	794	16996	24.006
11.133	142.0	Iodomethane	984	328521	25.506
11.278	76.0	Carbon disulfide	649	284700	21.622
11.788	41.0+40.0	Acetonitrile	980	274355	21.238
11.789	41.0+39.0	Allyl chloride	994	552650	22.508
11.794	45.0	Isopropyl alcohol (2-Propanol)	192		N/A
12.206	49.0	Methylene Chloride	984	254505	20.336
12.688	59.0	tert-Butanol	917	28078	125.111
12.856	73.0	Methyl-tert-butyl-ether (MTBE)	986	163243	21.628
12.886	61.0+96.0	t-1,2-Dichloroethene	959	426785	22.098

ALAB : 00139

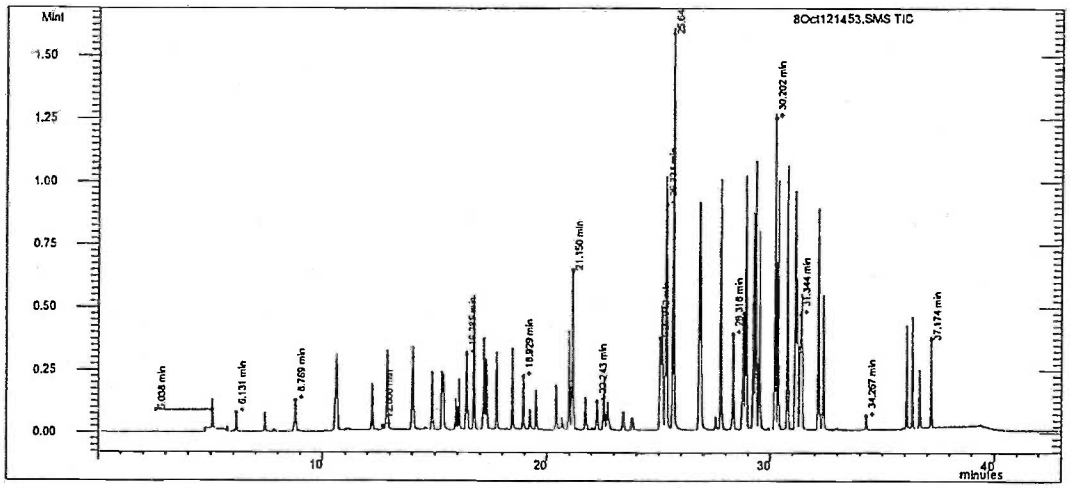
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.015	53.0	Acrylonitrile	988	8837	24.422
13.446	55.9+41.0	n-Hexane	994	526486	24.148
13.994	63.0	1,1-Dichloroethane	992	279421	22.417
14.030	45.0	Isopropyl ether	936	419792	22.954
14.164	53.0	Chloroprene	949	317142	22.690
14.042	43.0	Vinyl acetate	728		N/A
14.875	59.0	Ethyl-tert-butyl-ether	996	418244	23.772
15.303	77.0	2,2-Dichloropropane	999	199886	21.918
15.370	96.0	c-1,2-Dichloroethene	999	146342	22.254
15.466	43.0+72.0	2-Butanone (MEK)	834	19139	21.582
15.608	54.0+55.0	Propionitrile	984	20236	19.312
15.923	130.0+49.0	Bromochloromethane	994	175371	22.792
15.692	39.0+41.0+71.0	Tetrahydrofuran	280		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	361		N/A
16.069	83.0+85.0	Chloroform	969	437062	22.240
16.390	97.0+99.0	1,1,1-Trichloroethane	999	593317	23.491
16.420	111.0	Dibromofluoromethane (Surr1)	991	98264	23.721
16.718	117.0+119.0	Carbon Tetrachloride	994	515407	24.095
16.728	75.0	1,1-Dichloropropene	965	171688	22.585
17.016	41.0+39.0	Isobutyl alcohol	802		N/A
17.130	65.0	1,2-Dichloroethane-d4 (Surr2)	994	99641	21.620
17.180	78.0	Benzene	973	439123	22.177
17.288	62.0+64.0	1,2-Dichloroethane	980	203431	22.097
17.301	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	372352	22.059
18.450	130.0+132.0+95.0	Trichloroethene	999	520327	23.156
18.938	63.0+65.0	1,2-Dichloropropane	998	134116	22.534
19.045	41.0+39.0	Methyl methacrylate	804	130909	20.893
19.091	88.0	1,4-Dioxane	194		N/A
19.241	93.0+174.0	Dibromomethane	948	140854	24.501
19.517	83.0+85.0	Bromodichloromethane	999	288123	22.919
20.701	63.0+43.0	2-Chloroethyl vinyl ether	637	61277	22.968
20.432	75.0+77.0+39.0	c-1,3-Dichloropropene	997	353707	21.987
20.700	43.0+58.0	4-Methyl-2-pentanone	977	84249	23.353
21.001	98.0	Toluene-d8 (Surr3)	995	667712	24.472
21.162	92.0+91.0	Toluene	979	1.655E6	24.475
21.741	75.0+77.0	t-1,3-Dichloropropene	996	139304	22.508
21.760	69.0	Ethyl methacrylate	949	61248	24.017
22.255	97.0+99.0	1,1,2-Trichloroethane	994	146845	23.271
22.560	164.0+166.0	Tetrachloroethene	989	64363	23.771
22.721	76.0+41.0	1,3-Dichloropropane	984	211216	21.932
22.803	43.0+58.0+100.0	2-Hexanone	994	59500	21.105
23.424	129.0+127.0	Dibromochloromethane	997	169435	23.155
23.821	107.0+109.0	1,2-Dibromoethane	992	184133	23.015
24.895	91.0	1-Chlorohexane	360		N/A
25.143	112.0+114.0	Chlorobenzene	992	954703	24.725
25.335	106.0+91.0	Ethylbenzene	991	2.072E6	23.208
25.348	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	987	481362	23.864
25.657	106.0+91.0	p,m-Xylenes	996	4.377E6	48.835
26.821	106.0+91.0	o-Xylene	997	2.041E6	24.036
26.878	104.0+78.0	Styrene	989	1.117E6	23.360
27.564	171.0+173.0+175.0	Bromoform	997	114642	21.843

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.785	105.0+120.0	Isopropylbenzene	969	2.343E6	23.850
28.333	95.0	p-Bromofluorobenzene (Surr4)	975	348135	24.799
28.743	83.0+85.0	1,1,2,2-Tetrachloroethane	995	135104	19.993
28.886	75.0+110.0	1,2,3-Trichloropropane	903	103655	21.658
28.891	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	672	122894	21.995
28.100	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	927	88649	20.219
28.783	77.0+158.0	Bromobenzene	979	722002	22.280
28.905	91.0+120.0	n-Propylbenzene	982	2.740E6	24.560
29.238	91.0+126.0	2-Chlorotoluene	990	1.739E6	24.066
29.350	105.0+120.0	1,3,5-Trimethylbenzene	996	2.588E6	22.722
29.522	91.0+126.0	4-Chlorotoluene	988	1.701E6	24.297
30.216	119.0+91.0	tert-Butylbenzene	926	3.166E6	23.549
30.361	105.0+120.0	1,2,4-Trimethylbenzene	995	2.332E6	22.519
30.388	117.0	Pentachloroethane	970	116103	20.778
30.776	105.0+134.0	sec-Butylbenzene	980	2.607E6	23.880
31.119	119.0	4-Isopropyltoluene	919	2.003E6	24.841
31.198	146.0+148.0	1,3-Dichlorobenzene	994	1.045E6	22.573
31.419	146.0+148.0	1,4-Dichlorobenzene	994	941885	22.850
31.910	91.0	Benzyl Chloride	604		N/A
32.157	91.0+134.0	n-Butylbenzene	990	2.115E6	23.368
32.377	146.0+148.0	1,2-Dichlorobenzene	995	861076	22.813
34.279	75.0+157.0	1,2-Dibromo-3-chloropropane	988	56749	21.357
36.080	180.0+182.0	1,2,4-Trichlorobenzene	906	660638	22.394
36.342	225.0+226.0	Hexachlorobutadiene	968	445182	24.305
36.666	128.0	Naphthalene	998	344583	22.154
37.183	180.0+182.0	1,2,3-Trichlorobenzene	996	590112	22.917

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121453.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	25ppb 524.2 lcs 2	Acquisition Date:	10/17/2012 3:34:30 AM
Inj. Notes:	W#12090604	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.725	96.0+70.0	Fluorobenzene (IS1)	997	563570	25.000
25.042	117.0	Chlorobenzene-d5(IS2)	990	470406	25.000
31.344	152.0	1,4-Dichlorobenzene-d4(IS3)	986	268184	25.000
5.038	85.0	Dichlorodifluoromethane	987	186713	18.367
5.728	47.0+49.0+51.0	Chloromethane	874	54154	19.212
6.131	62.0+64.0	Vinyl Chloride	992	208784	24.117
7.422	94.0	Bromomethane	991	50152	24.842
7.834	49.0+45.0	Chloroethane	956	12620	20.302
8.769	101.0+103.0	Trichlorofluoromethane	994	488112	25.219
9.988	59.0	Ethyl ether	757	11	0.005
10.572	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	997	345390	23.093
10.619	61.0+96.0+98.0	1,1-Dichloroethene	998	562308	23.899
11.038	55.0+56.0	Acrolein	184		N/A
11.011	43.0+58.0	Acetone	803	16882	24.266
11.137	142.0	Iodomethane	974	25348	2.003
11.281	76.0	Carbon disulfide	683	1709	0.132
11.818	41.0+40.0	Acetonitrile	876		N/A
11.817	41.0+39.0	Allyl chloride	932		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	84		N/A
12.205	49.0	Methylene Chloride	985	260580	21.190
12.686	59.0	tert-Butanol	948	26395	119.693
12.853	73.0	Methyl-tert-butyl-ether (MTBE)	993	161808	21.817
12.884	61.0+96.0	t-1,2-Dichloroethene	955	437613	23.060

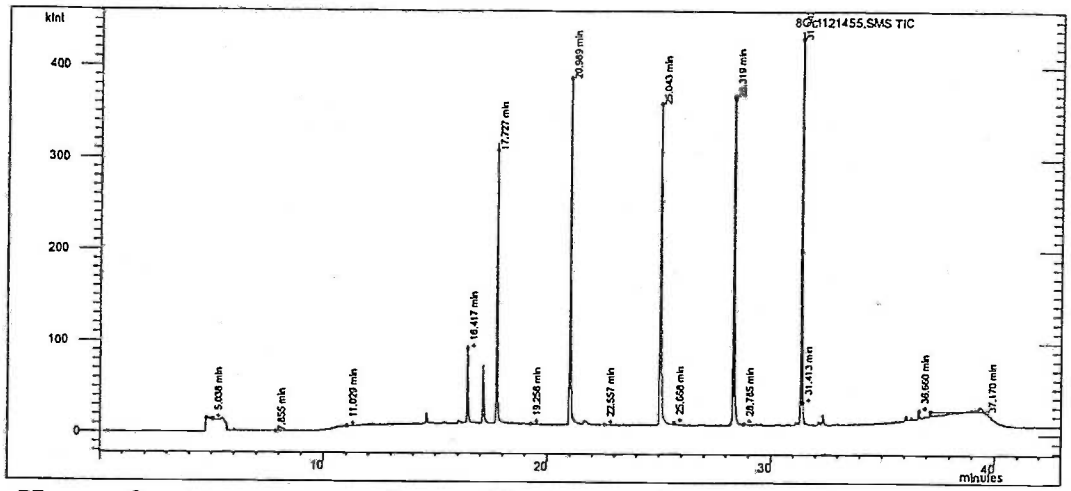
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	296		N/A
13.472	55.9+41.0	n-Hexane	862		N/A
13.992	63.0	1,1-Dichloroethane	998	276377	22.566
14.029	45.0	Isopropyl ether	942	420399	23.394
14.176	53.0	Chloroprene	230		N/A
14.042	43.0	Vinyl acetate	851		N/A
14.872	59.0	Ethyl-tert-butyl-ether	997	425620	24.619
15.297	77.0	2,2-Dichloropropane	999	197261	22.014
15.367	96.0	c-1,2-Dichloroethene	999	149644	23.159
15.456	43.0+72.0	2-Butanone (MEK)	797	16206	18.598
15.609	54.0+55.0	Propionitrile	258		N/A
15.920	130.0+49.0	Bromochloromethane	989	181441	23.999
15.692	39.0+41.0+71.0	Tetrahydrofuran	506		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	643		N/A
16.064	83.0+85.0	Chloroform	982	431016	22.320
16.385	97.0+99.0	1,1,1-Trichloroethane	998	599256	24.146
16.415	111.0	Dibromofluoromethane (Surr1)	995	95826	23.542
16.714	117.0+119.0	Carbon Tetrachloride	993	506653	24.106
16.721	75.0	1,1-Dichloropropene	978	162741	21.787
17.016	41.0+39.0	Isobutyl alcohol	407		N/A
17.124	65.0	1,2-Dichloroethane-d4 (Surr2)	988	94374	20.840
17.176	78.0	Benzene	971	435596	22.389
17.282	62.0+64.0	1,2-Dichloroethane	978	198736	21.969
17.293	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	369998	22.308
18.443	130.0+132.0+95.0	Trichloroethene	999	499555	22.404
18.930	63.0+65.0	1,2-Dichloropropane	998	133538	22.610
18.929	41.0+39.0	Methyl methacrylate	660	217979	35.058
19.091	88.0	1,4-Dioxane	412		N/A
19.235	93.0+174.0	Dibromomethane	944	134504	23.578
19.507	83.0+85.0	Bromodichloromethane	998	308172	24.704
20.690	63.0+43.0	2-Chloroethyl vinyl ether	648	61249	23.135
20.419	75.0+77.0+39.0	c-1,3-Dichloropropene	997	345968	21.672
20.688	43.0+58.0	4-Methyl-2-pentanone	973	84161	23.510
20.989	98.0	Toluene-d8 (Surr3)	990	662954	24.486
21.150	92.0+91.0	Toluene	980	1.630E6	24.289
21.728	75.0+77.0	t-1,3-Dichloropropene	810	134079	21.832
21.710	69.0	Ethyl methacrylate	589	3998	1.580
22.243	97.0+99.0	1,1,2-Trichloroethane	994	146334	23.370
22.545	164.0+166.0	Tetrachloroethene	991	59597	22.181
22.705	76.0+41.0	1,3-Dichloropropane	983	216355	22.639
22.788	43.0+58.0+100.0	2-Hexanone	981	59046	21.106
23.409	129.0+127.0	Dibromochloromethane	997	174212	23.992
23.805	107.0+109.0	1,2-Dibromoethane	996	182048	22.931
24.895	91.0	1-Chlorohexane	248		N/A
25.127	112.0+114.0	Chlorobenzene	991	935654	24.419
25.320	106.0+91.0	Ethylbenzene	992	1.887E6	21.396
25.334	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	985	475048	23.849
25.642	106.0+91.0	p,m-Xylenes	996	3.947E6	44.593
26.807	106.0+91.0	o-Xylene	997	1.912E6	22.799
26.864	104.0+78.0	Styrene	987	1.034E6	21.910
27.548	171.0+173.0+175.0	Bromoform	997	116215	22.423

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.771	105.0+120.0	Isopropylbenzene	969	2.052E6	21.155
28.318	95.0	p-Bromofluorobenzene (Surr4)	983	339391	24.482
28.728	83.0+85.0	1,1,2,2-Tetrachloroethane	994	138796	20.799
28.872	75.0+110.0	1,2,3-Trichloropropane	901	86115	18.221
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	294		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	751		N/A
28.771	77.0+158.0	Bromobenzene	973	651601	20.361
28.891	91.0+120.0	n-Propylbenzene	983	2.147E6	19.491
29.225	91.0+126.0	2-Chlorotoluene	989	1.577E6	22.108
29.336	105.0+120.0	1,3,5-Trimethylbenzene	995	2.145E6	19.072
29.508	91.0+126.0	4-Chlorotoluene	987	1.379E6	19.943
30.202	119.0+91.0	tert-Butylbenzene	918	2.622E6	19.749
30.346	105.0+120.0	1,2,4-Trimethylbenzene	995	1.877E6	18.351
30.345	117.0	Pentachloroethane	375	26780	4.853
30.762	105.0+134.0	sec-Butylbenzene	978	1.981E6	18.376
31.107	119.0	4-Isopropyltoluene	957	1.275E6	16.012
31.185	146.0+148.0	1,3-Dichlorobenzene	994	886851	19.391
31.406	146.0+148.0	1,4-Dichlorobenzene	994	734146	18.035
31.910	91.0	Benzyl Chloride	679		N/A
32.142	91.0+134.0	n-Butylbenzene	975	1.249E6	13.974
32.362	146.0+148.0	1,2-Dichlorobenzene	995	763997	20.497
34.267	75.0+157.0	1,2-Dibromo-3-chloropropane	988	54068	20.605
36.072	180.0+182.0	1,2,4-Trichlorobenzene	898	467250	16.039
36.330	225.0+226.0	Hexachlorobutadiene	970	202337	11.186
36.657	128.0	Naphthalene	998	313285	20.396
37.174	180.0+182.0	1,2,3-Trichlorobenzene	998	418531	16.459

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121455.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	Method Blank 2	Acquisition Date:	10/17/2012 5:08:25 AM
Inj. Notes:		Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.727	96.0+70.0	Fluorobenzene (IS1)	998	545055	25.000
25.043	117.0	Chlorobenzene-d5(IS2)	992	453168	25.000
31.342	152.0	1,4-Dichlorobenzene-d4(IS3)	987	261545	25.000
5.038	85.0	Dichlorodifluoromethane	746	354	0.036
5.713	47.0+49.0+51.0	Chloromethane	638	86	0.031
6.134	62.0+64.0	Vinyl Chloride	912		N/A
7.408	94.0	Bromomethane	860	42	0.021
7.855	49.0+45.0	Chloroethane	513		N/A
8.769	101.0+103.0	Trichlorofluoromethane	953	563	0.030
9.890	59.0	Ethyl ether	788	51	0.024
10.565	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	923	398	0.028
10.618	61.0+96,0+98.0	1,1-Dichloroethene	975	2047	0.090
11.038	55.0+56.0	Acrolein	310		N/A
11.029	43.0+58.0	Acetone	443	1294	1.923
11.129	142.0	Iodomethane	969	425	0.035
11.284	76.0	Carbon disulfide	740	594	0.047
11.818	41.0+40.0	Acetonitrile	612		N/A
11.817	41.0+39.0	Allyl chloride	858		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	169		N/A
12.206	49.0	Methylene Chloride	796	2495	0.210
12.701	59.0	tert-Butanol	229		N/A
12.868	73.0	Methyl-tert-butyl-ether (MTBE)	737	315	0.044
12.895	61.0+96.0	t-1,2-Dichloroethene	823	1394	0.076

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	566		N/A
13.472	55.9+41.0	n-Hexane	437		N/A
13.998	63.0	1,1-Dichloroethane	954	907	0.077
14.049	45.0	Isopropyl ether	692		N/A
14.176	53.0	Chloroprene	533		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.879	59.0	Ethyl-tert-butyl-ether	567	296	0.018
15.302	77.0	2,2-Dichloropropane	800	318	0.037
15.381	96.0	c-1,2-Dichloroethene	855	1019	0.163
15.464	43.0+72.0	2-Butanone (MEK)	192		N/A
15.609	54.0+55.0	Propionitrile	195		N/A
15.937	130.0+49.0	Bromochloromethane	812	611	0.084
15.692	39.0+41.0+71.0	Tetrahydrofuran	404		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	506		N/A
16.075	83.0+85.0	Chloroform	857	1906	0.102
16.385	97.0+99.0	1,1,1-Trichloroethane	718	569	0.024
16.417	111.0	Dibromofluoromethane (Surr1)	992	92305	23.448
16.727	117.0+119.0	Carbon Tetrachloride	626		N/A
16.734	75.0	1,1-Dichloropropene	904		N/A
17.016	41.0+39.0	Isobutyl alcohol	595		N/A
17.131	65.0	1,2-Dichloroethane-d4 (Surr2)	996	101994	23.288
17.188	78.0	Benzene	724	959	0.051
17.302	62.0+64.0	1,2-Dichloroethane	603	906	0.104
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	666		N/A
18.459	130.0+132.0+95.0	Trichloroethene	979	2349	0.109
18.944	63.0+65.0	1,2-Dichloropropane	496	350	0.062
18.939	41.0+39.0	Methyl methacrylate	494		N/A
19.091	88.0	1,4-Dioxane	478		N/A
19.256	93.0+174.0	Dibromomethane	888	449	0.082
19.513	83.0+85.0	Bromodichloromethane	712		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	357		N/A
20.453	75.0+77.0+39.0	c-1,3-Dichloropropene	367	446	0.029
20.679	43.0+58.0	4-Methyl-2-pentanone	233		N/A
20.989	98.0	Toluene-d8 (Surr3)	997	658597	25.250
21.162	92.0+91.0	Toluene	910	3527	0.055
21.721	75.0+77.0	t-1,3-Dichloropropene	593		N/A
21.740	69.0	Ethyl methacrylate	496		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	702		N/A
22.557	164.0+166.0	Tetrachloroethene	930	59	0.023
22.704	76.0+41.0	1,3-Dichloropropane	789		N/A
22.778	43.0+58.0+100.0	2-Hexanone	400		N/A
23.402	129.0+127.0	Dibromochloromethane	651		N/A
23.807	107.0+109.0	1,2-Dibromoethane	780		N/A
24.895	91.0	1-Chlorohexane	437		N/A
25.143	112.0+114.0	Chlorobenzene	744	834	0.023
25.344	106.0+91.0	Ethylbenzene	936	1700	0.020
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	600		N/A
25.668	106.0+91.0	p,m-Xylenes	970	4475	0.052
26.824	106.0+91.0	o-Xylene	899	2141	0.026
26.914	104.0+78.0	Styrene	893	794	0.017
27.550	171.0+173.0+175.0	Bromoform	715	61	0.012

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.783	105.0+120.0	Isopropylbenzene	917	1273	0.013
28.319	95.0	p-Bromofluorobenzene (Surr4)	978	328979	24.333
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	752		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	626		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	283		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	276		N/A
28.785	77.0+158.0	Bromobenzene	938	1657	0.053
28.906	91.0+120.0	n-Propylbenzene	927	2365	0.022
29.240	91.0+126.0	2-Chlorotoluene	924	1559	0.022
29.344	105.0+120.0	1,3,5-Trimethylbenzene	931	3242	0.030
29.534	91.0+126.0	4-Chlorotoluene	973	2964	0.044
30.206	119.0+91.0	tert-Butylbenzene	722	2793	0.022
30.358	105.0+120.0	1,2,4-Trimethylbenzene	983	5026	0.050
30.364	117.0	Pentachloroethane	467		N/A
30.763	105.0+134.0	sec-Butylbenzene	917	3125	0.030
31.110	119.0	4-Isopropyltoluene	909	3310	0.043
31.196	146.0+148.0	1,3-Dichlorobenzene	979	3801	0.085
31.413	146.0+148.0	1,4-Dichlorobenzene	556	3864	0.097
31.910	91.0	Benzyl Chloride	573		N/A
32.154	91.0+134.0	n-Butylbenzene	958	5542	0.064
32.369	146.0+148.0	1,2-Dichlorobenzene	954	3415	0.094
34.278	75.0+157.0	1,2-Dibromo-3-chloropropane	745	284	0.111
36.075	180.0+182.0	1,2,4-Trichlorobenzene	880	5983	0.211
36.329	225.0+226.0	Hexachlorobutadiene	961	1467	0.083
36.660	128.0	Naphthalene	994	11184	0.747
37.170	180.0+182.0	1,2,3-Trichlorobenzene	990	5183	0.209

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Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121466.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
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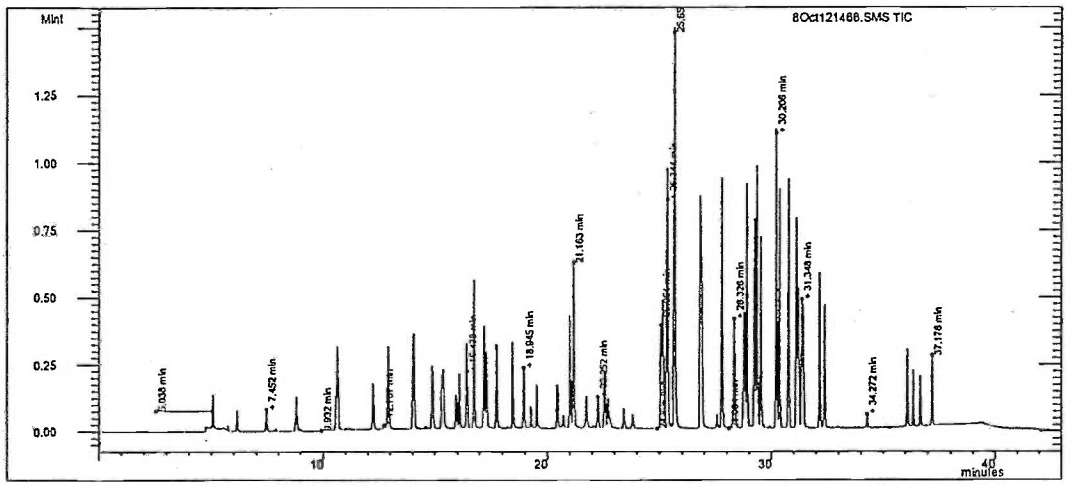
Inj. Notes:	W#12090604	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.744	96.0+70.0	Fluorobenzene (IS1)	997	581402	25.000
25.051	117.0	Chlorobenzene-d5(IS2)	990	492823	25.000
31.348	152.0	1,4-Dichlorobenzene-d4(IS3)	987	265420	25.000
5.038	85.0	Dichlorodifluoromethane	989	189485	18.068
5.738	47.0+49.0+51.0	Chloromethane	874	55528	19.095
6.148	62.0+64.0	Vinyl Chloride	990	210686	23.591
7.452	94.0	Bromomethane	990	57235	27.481
7.868	49.0+45.0	Chloroethane	957	12930	20.163
8.806	101.0+103.0	Trichlorofluoromethane	997	488683	24.474
9.932	59.0	Ethyl ether	585		N/A
10.609	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	995	357711	23.184
10.656	61.0+96.0+98.0	1,1-Dichloroethene	998	563958	23.234
11.038	55.0+56.0	Acrolein	390		N/A
11.042	43.0+58.0	Acetone	887	16477	22.958
11.170	142.0	Iodomethane	964	8061	0.617
11.311	76.0	Carbon disulfide	717	1235	0.093
11.818	41.0+40.0	Acetonitrile	314		N/A
11.817	41.0+39.0	Allyl chloride	812		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	357		N/A
12.237	49.0	Methylene Chloride	987	257702	20.313
12.707	59.0	tert-Butanol	961	27081	119.037
12.879	73.0	Methyl-tert-butyl-ether (MTBE)	984	165068	21.574
12.915	61.0+96.0	t-1,2-Dichloroethene	952	437578	22.351

ALAB : 00148

RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.876	53.0	Acrylonitrile	301	2668	7.272
13.472	55.9+41.0	n-Hexane	930		N/A
14.020	63.0	1,1-Dichloroethane	993	274708	21.741
14.054	45.0	Isopropyl ether	944	431670	23.285
14.176	53.0	Chloroprene	70		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.896	59.0	Ethyl-tert-butyl-ether	997	426748	23.927
15.324	77.0	2,2-Dichloropropane	999	162009	17.525
15.390	96.0	c-1,2-Dichloroethene	998	147689	22.155
15.483	43.0+72.0	2-Butanone (MEK)	779	16115	17.927
15.483	54.0+55.0	Propionitrile	556	110	0.104
15.943	130.0+49.0	Bromochloromethane	995	177181	22.716
15.692	39.0+41.0+71.0	Tetrahydrofuran	566		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	582		N/A
16.086	83.0+85.0	Chloroform	983	428125	21.491
16.407	97.0+99.0	1,1,1-Trichloroethane	999	601352	23.488
16.438	111.0	Dibromofluoromethane (Surr1)	996	99606	23.720
16.736	117.0+119.0	Carbon Tetrachloride	997	502666	23.182
16.743	75.0	1,1-Dichloropropene	972	162762	21.121
17.016	41.0+39.0	Isobutyl alcohol	389		N/A
17.145	65.0	1,2-Dichloroethane-d4 (Surr2)	989	99445	21.286
17.196	78.0	Benzene	974	450109	22.425
17.301	62.0+64.0	1,2-Dichloroethane	980	202470	21.695
17.311	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	374810	21.905
18.459	130.0+132.0+95.0	Trichloroethene	999	498273	21.330
18.946	63.0+65.0	1,2-Dichloropropane	998	133047	21.502
18.945	41.0+39.0	Methyl methacrylate	622	219052	33.628
19.091	88.0	1,4-Dioxane	504		N/A
19.250	93.0+174.0	Dibromomethane	953	134384	22.485
19.521	83.0+85.0	Bromodichloromethane	999	297867	22.792
20.702	63.0+43.0	2-Chloroethyl vinyl ether	571	60693	21.882
20.435	75.0+77.0+39.0	c-1,3-Dichloropropene	997	327573	19.587
20.701	43.0+58.0	4-Methyl-2-pentanone	975	83173	22.177
21.001	98.0	Toluene-d8 (Surr3)	996	705990	24.889
21.163	92.0+91.0	Toluene	980	1.598E6	22.732
21.741	75.0+77.0	t-1,3-Dichloropropene	827	123545	19.201
21.721	69.0	Ethyl methacrylate	621	3769	1.422
22.252	97.0+99.0	1,1,2-Trichloroethane	994	146176	22.283
22.558	164.0+166.0	Tetrachloroethene	990	59004	20.962
22.717	76.0+41.0	1,3-Dichloropropane	983	212324	21.207
22.799	43.0+58.0+100.0	2-Hexanone	983	56270	19.199
23.420	129.0+127.0	Dibromochloromethane	997	170594	22.425
23.816	107.0+109.0	1,2-Dibromoethane	994	181857	21.865
24.895	91.0	1-Chlorohexane	310		N/A
25.136	112.0+114.0	Chlorobenzene	991	901962	22.469
25.328	106.0+91.0	Ethylbenzene	993	1.796E6	20.585
25.344	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	986	473756	24.031
25.650	106.0+91.0	p,m-Xylenes	996	3.716E6	42.425
26.815	106.0+91.0	o-Xylene	997	1.808E6	21.784
26.871	104.0+78.0	Styrene	987	952126	20.379
27.556	171.0+173.0+175.0	Bromoform	997	115937	22.602

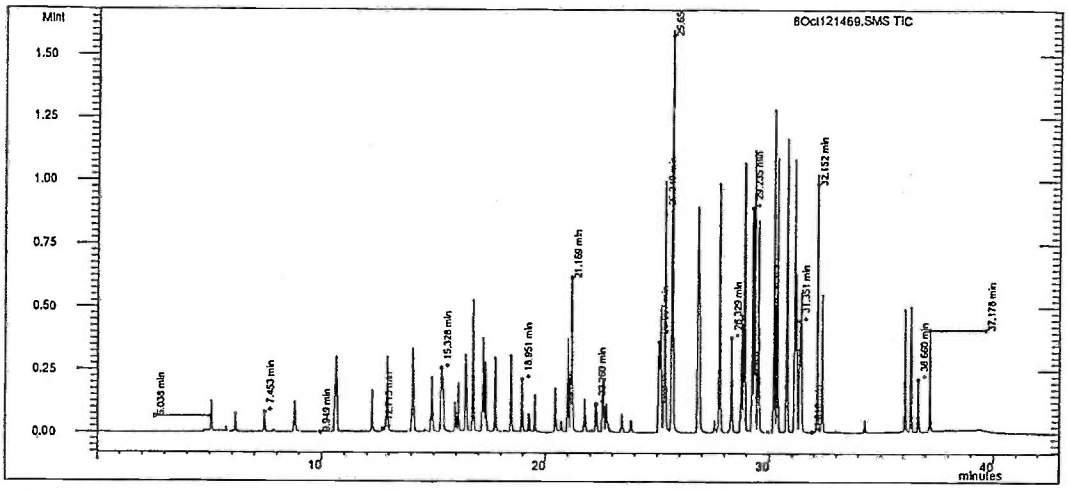
RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.777	105.0+120.0	Isopropylbenzene	969	1.881E6	19.586
28.326	95.0	p-Bromofluorobenzene (Surr4)	990	346221	25.234
28.735	83.0+85.0	1,1,2,2-Tetrachloroethane	994	139176	21.073
28.877	75.0+110.0	1,2,3-Trichloropropane	904	86326	18.456
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	296		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	364		N/A
28.777	77.0+158.0	Bromobenzene	982	624273	19.711
28.897	91.0+120.0	n-Propylbenzene	982	1.844E6	16.915
29.231	91.0+126.0	2-Chlorotoluene	990	1.442E6	20.422
29.342	105.0+120.0	1,3,5-Trimethylbenzene	995	1.941E6	17.436
29.515	91.0+126.0	4-Chlorotoluene	987	1.214E6	17.737
30.206	119.0+91.0	tert-Butylbenzene	908	2.333E6	17.759
30.350	105.0+120.0	1,2,4-Trimethylbenzene	994	1.625E6	16.052
30.351	117.0	Pentachloroethane	378	22039	4.036
30.766	105.0+134.0	sec-Butylbenzene	975	1.661E6	15.566
31.111	119.0	4-Isopropyltoluene	915	1.000E6	12.689
31.189	146.0+148.0	1,3-Dichlorobenzene	994	762122	16.837
31.410	146.0+148.0	1,4-Dichlorobenzene	994	615995	15.291
31.910	91.0	Benzyl Chloride	325		N/A
32.146	91.0+134.0	n-Butylbenzene	974	856656	9.685
32.368	146.0+148.0	1,2-Dichlorobenzene	994	659842	17.887
34.272	75.0+157.0	1,2-Dibromo-3-chloropropane	989	52169	20.089
36.075	180.0+182.0	1,2,4-Trichlorobenzene	900	328398	11.390
36.336	225.0+226.0	Hexachlorobutadiene	966	101639	5.678
36.660	128.0	Naphthalene	998	251281	16.530
37.176	180.0+182.0	1,2,3-Trichlorobenzene	996	307819	12.231

524 Volatile Organics

Associated Labs

GCMS#8

Data File Name:	c:\varianws\data\8oct12\8Oct121469.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	25ppb 524.2 lcs D	Acquisition Date:	10/17/2012 4:13:30 PM
Inj. Notes:	W#12090604	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.751	96.0+70.0	Fluorobenzene (IS1)	997	555550	25.000
25.057	117.0	Chlorobenzene-d5(IS2)	987	460364	25.000
31.351	152.0	1,4-Dichlorobenzene-d4(IS3)	985	254380	25.000
5.038	85.0	Dichlorodifluoromethane	997	181724	18.134
5.737	47.0+49.0+51.0	Chloromethane	897	52332	18.833
6.148	62.0+64.0	Vinyl Chloride	984	203288	23.822
7.453	94.0	Bromomethane	986	55477	27.876
7.865	49.0+45.0	Chloroethane	954	13074	21.335
8.808	101.0+103.0	Trichlorofluoromethane	998	470467	24.658
9.949	59.0	Ethyl ether	730	79	0.036
10.615	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	993	345507	23.435
10.661	61.0+96.0+98.0	1,1-Dichloroethene	998	536086	23.113
11.038	55.0+56.0	Acrolein	370		N/A
11.051	43.0+58.0	Acetone	920	14302	20.854
11.175	142.0	Iodomethane	969	6382	0.512
11.320	76.0	Carbon disulfide	706	1364	0.107
11.818	41.0+40.0	Acetonitrile	841		N/A
11.817	41.0+39.0	Allyl chloride	836		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	568		N/A
12.242	49.0	Methylene Chloride	994	245770	20.274
12.713	59.0	tert-Butanol	992	24400	112.245
12.885	73.0	Methyl-tert-butyl-ether (MTBE)	998	163000	22.295
12.922	61.0+96.0	t-1,2-Dichloroethene	959	428696	22.916

ALAB : 00151

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	293		N/A
13.472	55.9+41.0	n-Hexane	908		N/A
14.028	63.0	1,1-Dichloroethane	997	261999	21.700
14.060	45.0	Isopropyl ether	942	399620	22.559
14.176	53.0	Chloroprene	458		N/A
14.042	43.0	Vinyl acetate	723		N/A
14.902	59.0	Ethyl-tert-butyl-ether	998	407720	23.924
15.328	77.0	2,2-Dichloropropane	999	214955	24.334
15.396	96.0	c-1,2-Dichloroethene	998	145745	22.881
15.497	43.0+72.0	2-Butanone (MEK)	792	14855	17.294
15.497	54.0+55.0	Propionitrile	621	204	0.201
15.948	130.0+49.0	Bromochloromethane	994	169013	22.677
15.692	39.0+41.0+71.0	Tetrahydrofuran	527		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	554		N/A
16.093	83.0+85.0	Chloroform	983	415374	21.821
16.413	97.0+99.0	1,1,1-Trichloroethane	999	586250	23.963
16.444	111.0	Dibromofluoromethane (Surr1)	993	96063	23.941
16.741	117.0+119.0	Carbon Tetrachloride	996	493795	23.833
16.748	75.0	1,1-Dichloropropene	969	159521	21.664
17.016	41.0+39.0	Isobutyl alcohol	373		N/A
17.151	65.0	1,2-Dichloroethane-d4 (Surr2)	996	94308	21.126
17.201	78.0	Benzene	975	432805	22.566
17.307	62.0+64.0	1,2-Dichloroethane	978	198779	22.291
17.319	73.0+55.0+87.0	tert-Amyl-methyl-ether	998	370529	22.663
18.466	130.0+132.0+95.0	Trichloroethene	999	483364	22.151
18.952	63.0+65.0	1,2-Dichloropropane	999	128114	22.165
18.951	41.0+39.0	Methyl methacrylate	725	208742	34.305
19.091	88.0	1,4-Dioxane	342		N/A
19.257	93.0+174.0	Dibromomethane	944	128036	22.933
19.529	83.0+85.0	Bromodichloromethane	998	295195	24.180
20.708	63.0+43.0	2-Chloroethyl vinyl ether	674	55948	21.594
20.440	75.0+77.0+39.0	c-1,3-Dichloropropene	999	347119	22.219
20.709	43.0+58.0	4-Methyl-2-pentanone	987	77065	21.997
21.009	98.0	Toluene-d8 (Surr3)	990	645086	24.345
21.169	92.0+91.0	Toluene	979	1.562E6	23.787
21.749	75.0+77.0	t-1,3-Dichloropropene	880	135850	22.603
21.728	69.0	Ethyl methacrylate	673	3741	1.511
22.260	97.0+99.0	1,1,2-Trichloroethane	993	144129	23.520
22.565	164.0+166.0	Tetrachloroethene	987	59436	22.604
22.724	76.0+41.0	1,3-Dichloropropane	984	209545	22.405
22.805	43.0+58.0+100.0	2-Hexanone	983	52562	19.198
23.427	129.0+127.0	Dibromochloromethane	997	166678	23.455
23.822	107.0+109.0	1,2-Dibromoethane	995	175619	22.603
24.895	91.0	1-Chlorohexane	397		N/A
25.142	112.0+114.0	Chlorobenzene	992	924289	24.648
25.334	106.0+91.0	Ethylbenzene	992	1.863E6	22.269
25.349	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	985	461503	24.426
25.655	106.0+91.0	p,m-Xylenes	996	3.935E6	46.869
26.817	106.0+91.0	o-Xylene	997	1.907E6	23.977
26.875	104.0+78.0	Styrene	988	1.022E6	22.819
27.560	171.0+173.0+175.0	Bromoform	997	108447	22.060

ALAB : 00152

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.780	105.0+120.0	Isopropylbenzene	969	2.066E6	22.447
28.329	95.0	p-Bromofluorobenzene (Surr4)	987	326371	24.820
28.740	83.0+85.0	1,1,2,2-Tetrachloroethane	995	133882	21.151
28.882	75.0+110.0	1,2,3-Trichloropropane	886	83939	18.724
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	290		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	534		N/A
28.781	77.0+158.0	Bromobenzene	981	688958	22.697
28.901	91.0+120.0	n-Propylbenzene	982	2.210E6	21.153
29.235	91.0+126.0	2-Chlorotoluene	990	1.636E6	24.179
29.345	105.0+120.0	1,3,5-Trimethylbenzene	996	2.277E6	21.345
29.518	91.0+126.0	4-Chlorotoluene	987	1.481E6	22.579
30.210	119.0+91.0	tert-Butylbenzene	918	2.703E6	21.468
30.354	105.0+120.0	1,2,4-Trimethylbenzene	994	2.054E6	21.174
30.357	117.0	Pentachloroethane	376	25877	4.944
30.770	105.0+134.0	sec-Butylbenzene	978	2.077E6	20.311
31.113	119.0	4-Isopropyltoluene	919	1.389E6	18.393
31.192	146.0+148.0	1,3-Dichlorobenzene	994	959879	22.127
31.415	146.0+148.0	1,4-Dichlorobenzene	994	806233	20.881
31.910	91.0	Benzyl Chloride	722		N/A
32.152	91.0+134.0	n-Butylbenzene	989	1.442E6	17.016
32.370	146.0+148.0	1,2-Dichlorobenzene	994	785423	22.215
34.276	75.0+157.0	1,2-Dibromo-3-chloropropane	989	51172	20.560
36.080	180.0+182.0	1,2,4-Trichlorobenzene	906	551216	19.948
36.339	225.0+226.0	Hexachlorobutadiene	976	234474	13.667
36.660	128.0	Naphthalene	998	303306	20.818
37.178	180.0+182.0	1,2,3-Trichlorobenzene	995	473009	19.611

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Varian Star Workstation - RecalcList Thu Oct 11 08:00:14 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Tue Nov 18 08:23:28 2008
Modified: Thu Oct 11 08:00:07 2012

MS8-524-101112 mth

****

Line	Sample Name	Data File
1	tune	c:\varianws\data\8oct12\8Oct121246.SMS
2	rinse	c:\varianws\data\8oct12\8Oct121247.SMS
3	mb	c:\varianws\data\8oct12\8Oct121248.SMS
4	0.5ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121249.SMS
5	2.5ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121250.SMS
6	10ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121251.SMS
7	25ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121252.SMS
8	50ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121253.SMS
9	75ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121254.SMS
10	100ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121255.SMS
11	125ppb 524.2 ic	c:\varianws\data\8oct12\8Oct121256.SMS
12	rinse	c:\varianws\data\8oct12\8Oct121257.SMS
13	rinse	c:\varianws\data\8oct12\8Oct121258.SMS
14	10ppb 524.2 tune 1	c:\varianws\data\8oct12\8Oct121259.SMS
15	25ppb 524.2 ccv 1	c:\varianws\data\8oct12\8Oct121260.SMS
16	25ppb 524.2 lcs 1	c:\varianws\data\8oct12\8Oct121261.SMS
17	rinse	c:\varianws\data\8oct12\8Oct121262.SMS
18	Method Blank 1	c:\varianws\data\8oct12\8Oct121263.SMS
19	311666-001_10ml-2	c:\varianws\data\8oct12\8Oct121264.SMS
20	311416-001_10ml-2	c:\varianws\data\8oct12\8Oct121265.SMS
21	311726-001_10ml-2	c:\varianws\data\8oct12\8Oct121266.SMS
22	311726-017_10ml-2	c:\varianws\data\8oct12\8Oct121267.SMS
23	311668-005_250ul-3	c:\varianws\data\8oct12\8Oct121268.SMS
24	311668-006_250ul-3	c:\varianws\data\8oct12\8Oct121269.SMS
25	311668-008_100ul-3	c:\varianws\data\8oct12\8Oct121270.SMS
26	311668-007_5ml-3	c:\varianws\data\8oct12\8Oct121271.SMS

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 8 Case No.: SAS No: SDG No:

Instrument ID: GCMS #8 Cal. Sample Date(s): 10/10/2012 10/10/2012

Cal. Sample Time(s): 14:21 19:39

Calibration File: C:\VarianWS\data\8Oct12\8Oct121256.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 10/10/2012 14:21	File: C:\VarianWS\data\8Oct12\8Oct121249.SMS
Index: 2	Level: 2	Replicate: 1	Acquired: 10/10/2012 15:06	File: C:\VarianWS\data\8Oct12\8Oct121250.SMS
Index: 3	Level: 3	Replicate: 1	Acquired: 10/10/2012 15:51	File: C:\VarianWS\data\8Oct12\8Oct121251.SMS
Index: 4	Level: 4	Replicate: 1	Acquired: 10/10/2012 16:37	File: C:\VarianWS\data\8Oct12\8Oct121252.SMS
Index: 5	Level: 5	Replicate: 1	Acquired: 10/10/2012 17:22	File: C:\VarianWS\data\8Oct12\8Oct121253.SMS
Index: 6	Level: 6	Replicate: 1	Acquired: 10/10/2012 18:08	File: C:\VarianWS\data\8Oct12\8Oct121254.SMS
Index: 7	Level: 7	Replicate: 1	Acquired: 10/10/2012 18:53	File: C:\VarianWS\data\8Oct12\8Oct121255.SMS
Index: 8	Level: 8	Replicate: 1	Acquired: 10/10/2012 19:39	File: C:\VarianWS\data\8Oct12\8Oct121256.SMS

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Dichlorodifluoromethane	0.500	0.502	0.477	0.452	0.464	0.450	0.434	0.443	0.465	5.5
Chloromethane	0.119	0.125	0.135	0.125	0.129	0.123	0.119	0.125	0.125	4.1
Vinyl Chloride	0.389	0.403	0.406	0.381	0.392	0.375	0.360	0.367	0.384	4.3
Bromomethane	0.068	0.060	0.096	0.097	0.107	0.105	0.099	0.084	0.090	19.4
Chloroethane	0.025	0.022	0.027	0.027	0.030	0.030	0.030	0.030	0.028	10.1
Trichlorofluoromethane	0.895	0.879	0.910	0.850	0.872	0.843	0.802	0.818	0.859	4.3
Ethyl ether	0.095	0.103	0.108	0.102	0.099	0.098	0.092	0.094	0.099	5.4
Trichlorotrifluoroethane (Freon 113)	0.638	0.670	0.708	0.660	0.670	0.664	0.636	0.662	0.663	3.4
1,1-Dichloroethene	1.195	1.091	1.088	1.011	1.032	0.992	0.954	0.988	1.044	7.4
Acetone		0.056	0.039	0.032	0.030	0.029	0.027	0.028	0.034	29.7
Iodomethane	0.511	0.492	0.546	0.521	0.587	0.613	0.590	0.631	0.561	9.0
Carbon disulfide	0.646	0.613	0.597	0.555	0.568	0.551	0.525	0.535	0.574	7.2

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Acetonitrile	0.571	0.544	0.570	0.557	0.582	0.563	0.553	0.565	0.563	2.1
Allyl chloride	0.952	1.096	1.109	1.092	1.119	1.085	1.045	1.063	1.070	5.0
Methylene Chloride	0.751	0.575	0.530	0.504	0.501	0.505	0.484	0.516	0.546	16.0
tert-Butanol	0.011	0.009	0.011	0.010	0.009	0.009	0.009	0.009	0.010	9.8
Methyl-tert-butyl-ether (MTBE)	0.342	0.315	0.345	0.320	0.324	0.331	0.316	0.338	0.329	3.5
t-1,2-Dichloroethene	0.921	0.891	0.901	0.839	0.842	0.802	0.760	0.777	0.842	7.0
Acrylonitrile	0.005	0.011	0.018	0.018	0.019	0.019	0.018	0.019	0.016	33.2
n-Hexane	0.919	0.970	1.007	0.952	0.978	0.942	0.892	0.944	0.950	3.7
1,1-Dichloroethane	0.623	0.566	0.577	0.520	0.539	0.522	0.496	0.502	0.543	7.9
Isopropyl ether	0.871	0.874	0.889	0.806	0.783	0.763	0.692	0.700	0.797	9.7
Chloroprene	0.475	0.572	0.613	0.617	0.657	0.641	0.629	0.670	0.609	10.2
Ethyl-tert-butyl-ether	0.814	0.828	0.882	0.783	0.755	0.733	0.667	0.672	0.767	9.8
2,2-Dichloropropane	0.441	0.421	0.423	0.388	0.399	0.386	0.384	0.405	0.406	5.1
c-1,2-Dichloroethene	0.300	0.280	0.295	0.284	0.289	0.283	0.272	0.290	0.287	3.1
2-Butanone (MEK)		0.012	0.036	0.042	0.044	0.046	0.045	0.046	0.039	32.0
Propionitrile			0.004	0.037	0.051	0.060	0.058	0.064	0.046	49.5
Bromochloromethane	0.361	0.343	0.349	0.340	0.333	0.333	0.304	0.319	0.335	5.2
Chloroform	0.975	0.891	0.880	0.819	0.841	0.822	0.797	0.827	0.857	6.7
1,1,1-Trichloroethane	0.904	0.957	1.097	1.100	1.178	1.169	1.158	1.245	1.101	10.5
Dibromofluoromethane (Surr1)	0.183	0.181	0.185	0.185	0.182	0.180	0.178	0.171	0.181	2.5
Carbon Tetrachloride	0.910	0.920	0.956	0.917	0.946	0.929	0.918	0.963	0.932	2.2
1,1-Dichloropropene	0.330	0.323	0.327	0.323	0.332	0.331	0.331	0.354	0.331	2.9
1,2-Dichloroethane-d4 (Surr2)	0.217	0.211	0.210	0.199	0.196	0.193	0.190	0.192	0.201	5.1
Benzene	0.864	0.843	0.865	0.838	0.878	0.877	0.846	0.894	0.863	2.3
1,2-Dichloroethane	0.479	0.452	0.453	0.409	0.394	0.368	0.327	0.328	0.401	14.4
tert-Amyl-methyl-ether	0.772	0.742	0.800	0.746	0.736	0.718	0.668	0.705	0.736	5.5
Trichloroethene	1.237	1.174	1.176	1.139	1.188	1.182	1.174	1.211	1.185	2.5
1,2-Dichloropropane	0.343	0.327	0.327	0.306	0.311	0.310	0.290	0.298	0.314	5.5
Methyl methacrylate	0.503	0.187	0.307	0.328	0.333	0.342	0.315	0.329	0.330	25.9
Dibromomethane	0.283	0.320	0.322	0.299	0.309	0.305	0.288	0.300	0.303	4.5
Bromodichloromethane	0.622	0.654	0.683	0.645	0.672	0.679	0.661	0.688	0.663	3.4
2-Chloroethyl vinyl ether	0.105	0.122	0.162	0.151	0.149	0.151	0.139	0.145	0.141	13.1
c-1,3-Dichloropropene	0.718	0.803	0.892	0.862	0.888	0.898	0.848	0.877	0.848	7.2
4-Methyl-2-pentanone	0.146	0.159	0.223	0.207	0.201	0.204	0.188	0.194	0.190	13.4

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Toluene-d8 (Surr3)	1.452	1.427	1.445	1.439	1.442	1.445	1.435	1.427	1.439	0.6
Toluene	3.619	3.496	3.628	3.500	3.582	3.623	3.483	3.603	3.567	1.8
t-1,3-Dichloropropene	0.239	0.282	0.343	0.340	0.352	0.364	0.339	0.352	0.326	13.3
Ethyl methacrylate	0.070	0.112	0.149	0.144	0.146	0.154	0.144	0.157	0.134	22.1
1,1,2-Trichloroethane	0.299	0.309	0.351	0.334	0.343	0.353	0.331	0.342	0.333	5.9
Tetrachloroethene	0.131	0.147	0.148	0.144	0.147	0.144	0.140	0.141	0.143	3.9
1,3-Dichloropropane	0.453	0.466	0.525	0.498	0.522	0.542	0.520	0.538	0.508	6.5
2-Hexanone		0.063	0.149	0.157	0.159	0.174	0.165	0.173	0.149	26.2
Dibromochloromethane	0.351	0.391	0.416	0.381	0.390	0.395	0.377	0.387	0.386	4.8
1,2-Dibromoethane	0.365	0.383	0.450	0.420	0.431	0.451	0.429	0.446	0.422	7.6
Chlorobenzene	1.876	1.977	2.126	2.030	2.063	2.100	2.035	2.084	2.036	3.9
Ethylbenzene	7.545	8.139	8.570	8.249	8.572	8.338	8.092	8.253	8.220	4.0
1,1,1,2-Tetrachloroethane	1.763	2.035	2.165	2.014	1.939	1.806	1.615	1.518	1.857	11.9
p,m-Xylenes	7.714	8.211	8.696	8.288	8.502	8.350	8.046	8.197	8.250	3.6
o-Xylene	7.424	7.767	8.216	7.848	7.989	7.922	7.617	7.758	7.818	3.1
Styrene	3.521	4.124	4.738	4.520	4.680	4.586	4.463	4.571	4.401	9.1
Bromoform	0.449	0.503	0.527	0.481	0.486	0.485	0.465	0.468	0.483	4.9
Isopropylbenzene	8.326	8.975	9.729	9.119	9.272	8.998	8.965	8.967	9.044	4.3
p-Bromofluorobenzene (Surr4)	1.300	1.287	1.319	1.295	1.297	1.297	1.280	1.263	1.292	1.3
1,1,2,2-Tetrachloroethane	0.633	0.629	0.665	0.616	0.610	0.620	0.602	0.602	0.622	3.3
1,2,3-Trichloropropane	0.430	0.478	0.503	0.479	0.441	0.437	0.385	0.373	0.441	10.3
trans-1,4-Dichloro-2-butene	0.419	0.473	0.538	0.533	0.544	0.553	0.524	0.532	0.514	8.8
cis-1,4-Dichloro-2-butene	0.196	0.308	0.429	0.437	0.461	0.473	0.462	0.462	0.404	24.6
Bromobenzene	2.853	2.927	3.125	2.912	3.111	3.063	2.908	2.967	2.983	3.5
n-Propylbenzene	9.627	10.187	10.722	10.264	10.441	10.249	10.267	10.400	10.269	3.0
2-Chlorotoluene	6.304	6.580	6.866	6.791	6.531	6.785	6.613	6.738	6.651	2.7
1,3,5-Trimethylbenzene	10.396	10.983	11.357	10.639	10.624	10.082	9.879	9.911	10.484	5.0
4-Chlorotoluene	6.314	6.313	6.786	6.418	6.395	6.531	6.347	6.468	6.447	2.4
tert-Butylbenzene	12.285	12.835	13.506	12.340	12.474	11.893	11.965	11.706	12.375	4.7
1,2,4-Trimethylbenzene	9.548	9.240	9.925	9.418	9.612	9.300	9.564	9.656	9.533	2.3
Pentachloroethane	0.603	0.541	0.594	0.549	0.515	0.487	0.425	0.401	0.514	14.2
sec-Butylbenzene	9.677	10.283	10.900	9.954	10.082	9.679	9.903	9.921	10.050	3.9
4-Isopropyltoluene	7.583	7.719	7.989	7.412	7.175	6.948	7.293	7.271	7.424	4.4
1,3-Dichlorobenzene	4.476	4.440	4.659	4.278	4.186	4.025	4.009	4.035	4.263	5.7

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
1,4-Dichlorobenzene	3.799	3.608	4.040	3.827	3.812	3.678	3.788	3.805	3.795	3.3
n-Butylbenzene	7.816	8.230	8.682	8.309	8.253	7.978	8.698	8.684	8.331	4.0
1,2-Dichlorobenzene	3.660	3.486	3.692	3.399	3.414	3.325	3.374	3.448	3.475	3.8
1,2-Dibromo-3-chloropropane	0.235	0.241	0.257	0.243	0.242	0.252	0.239	0.248	0.245	2.9
1,2,4-Trichlorobenzene	2.789	2.719	2.919	2.772	2.632	2.496	2.710	2.690	2.716	4.5
Hexachlorobutadiene	2.089	1.923	1.950	1.767	1.536	1.404	1.643	1.579	1.737	13.6
Naphthalene	1.465	1.319	1.439	1.373	1.404	1.411	1.464	1.578	1.432	5.4
1,2,3-Trichlorobenzene	2.073	2.345	2.605	2.447	2.360	2.257	2.406	2.469	2.370	6.6
									Average %RSD	8.0

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260A

Lab Name: Associated Labs Contract:

Lab Code: # 8 Case No.: SAS No: SDG No:

Lab File ID (CONTROL): C:\VarianWS\data\8Oct12\8Oct121251.SMS Lab Sample ID: 10ppb 524.2 ic

Instrument ID: GCMS #8 Date Analyzed: 10/10/2012 Time Analyzed: 15:51

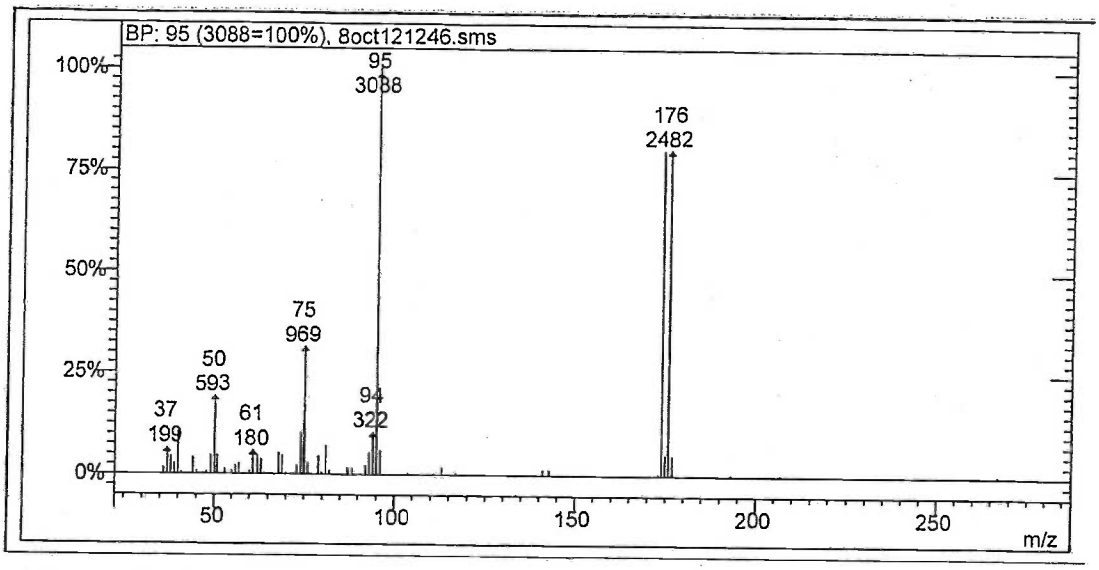
	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	467355	17.74	402364	25.04	215704	31.34						
UPPER LIMIT	934710	18.24	804728	25.54	431408	31.84						
LOWER LIMIT	233678	17.24	201182	24.54	107852	30.84						
EPA SAMPLE NO												
8Oct121249	487519	17.74	409337	25.05	216923	31.34						
8Oct121250	476835	17.74	411245	25.04	217631	31.34						
8Oct121252	487235	17.74	413276	25.04	221474	31.34						
8Oct121253	488626	17.74	406712	25.05	216485	31.34						
8Oct121254	511599	17.73	415694	25.04	229250	31.33						
8Oct121255	560925	17.73	454505	25.04	249970	31.33						
8Oct121256	540385	17.73	443245	25.03	249323	31.33						
8Oct121260	505046	17.73	419281	25.03	223953	31.33						

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Fluorobenzene (IS1)
IS 2 = Chlorobenzene-d5(IS2)
IS 3 = 1,4-Dichlorobenzene-d4(IS3)

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

BFB 8260B Report



Lab File ID 8oct121246.sms

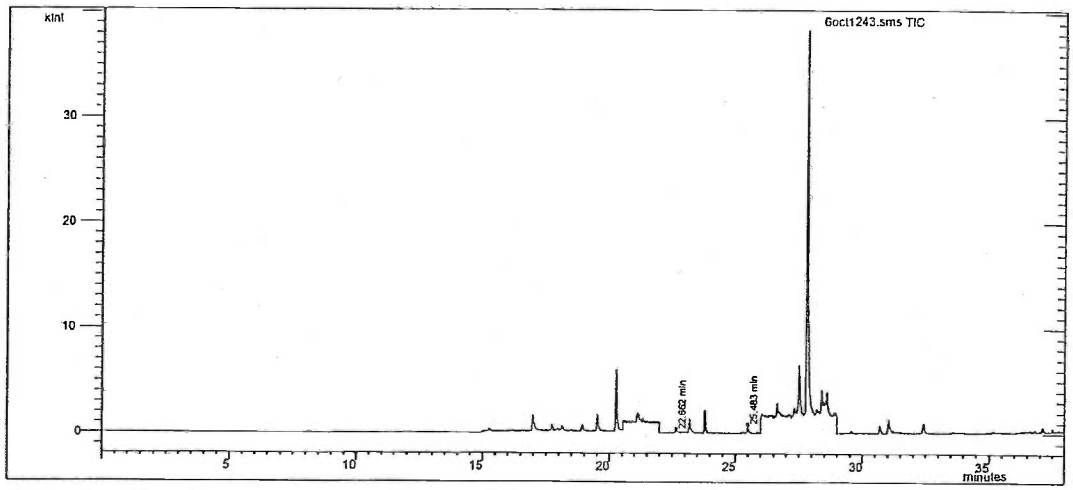
Injection Date: 10/10/2012
Injection Time: 12:05

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.20	PASS
75	30-60% of m/z 95	31.38	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	5.89	PASS
173	<2% of m/z 174	0.65	PASS
174	>50% of m/z 95	80.08	PASS
175	5-9% of m/z 174	6.35	PASS
176	>95% but <101% of m/z 174	100.36	PASS
177	5-9% of m/z 176	5.92	PASS

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1243.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	311877-002-1 5ml	**Acquisition Date:**	10/18/2012 6:50:44 PM
Inj. Notes:	pH<2	**Operator Name:**	RyanP



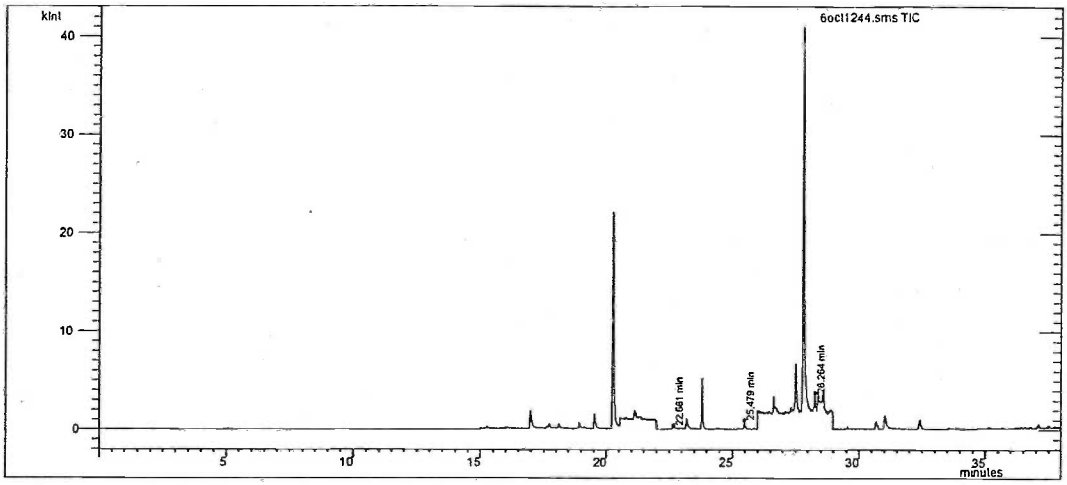
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.483	117.0+82.0	Chlorobenzene-d5(IS2)	999	2134	1.000
22.662	98.0+70.0	Toluene-d8 (Surr 3)	924	860	1.226

ALAB : 00160

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1244.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	311877-003-8 1ml	**Acquisition Date:**	10/18/2012 7:47:55 PM
Inj. Notes:	1:5 pH<2	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.479	117.0+82.0	Chlorobenzene-d5(IS2)	999	2271	1.000
28.264	75.0	1,2,3 - TCP	1000	5858	0.017
22.661	98.0+70.0	Toluene-d8 (Surr 3)	921	729	0.976

.085

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130672

Created Date:	10/19/2012
Created By:	akk
Matrix:	Water

Test:	8260M MS/MS
Method:	EPA 8260M
Instrument:	VOA-MS (group)
AnalysisDate:	10/19/2012
AnalysisEmployee:	akk

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	311877-002	B-1-CW27	311877-002							
4	311877-003	3850N	311877-003							

InitialCalibSTD:	
CalibCheckSTD:	
InternalSTD:	w#12100801
SurrogateSTD:	w#12100801
LCSSTD:	
MSSTD:	

Solvent Manufacturer and Lot:	
Sand Manufacturer and Lot:	
Na2SO4 Manufacturer and Lot:	
Surrogate Lot:	
Spike Lot:	
Prep By Signature:	

****

Varian Star Workstation - RecalcList Fri Oct 19 13:12:49 2012

RecalcList: C:\Documents and Settings\ragtimerye\Desktop\temp recalc.rcl

Created: Tue Sep 11 16:52:55 2012
Modified: Fri Oct 19 13:12:42 2012

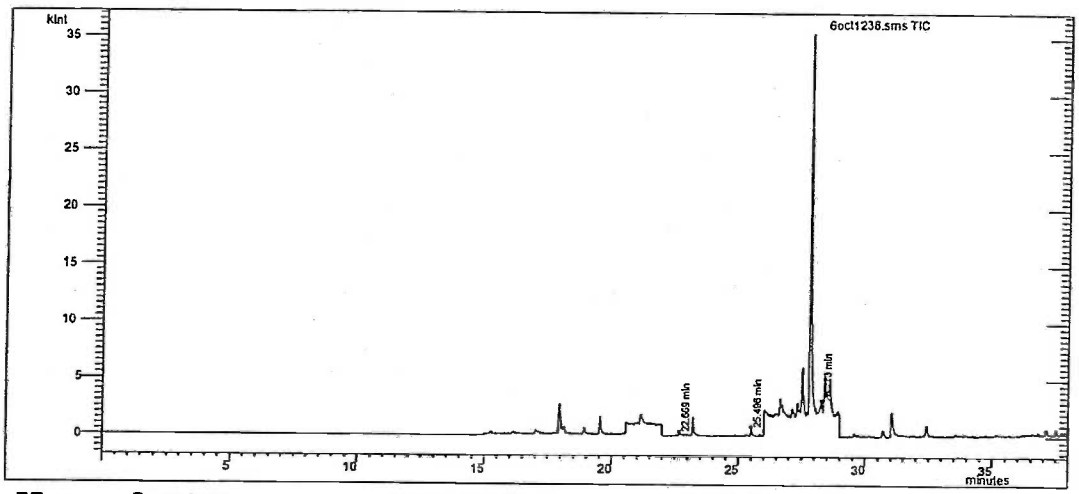
****

Line	Sample Name	Data File	Recalc Notes
1	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1238.SMS	none
2	0.02ppb tcp lcs	c:\varianws\data\6oct12\6Oct1239.SMS	none
3	rinse	c:\varianws\data\6oct12\6Oct1240.SMS	none
4	method blank	c:\varianws\data\6oct12\6Oct1241.SMS	none
5	method blank	c:\varianws\data\6oct12\6Oct1242.SMS	none
6	311877-002-1 5ml Notes pH<2	c:\varianws\data\6oct12\6Oct1243.SMS	below
7	311877-003-8 1ml Notes pH<2	c:\varianws\data\6oct12\6Oct1244.SMS	below
8	0.02ppb tcp lcsd	c:\varianws\data\6oct12\6Oct1245.SMS	none

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1238.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/18/2012 1:50:51 PM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



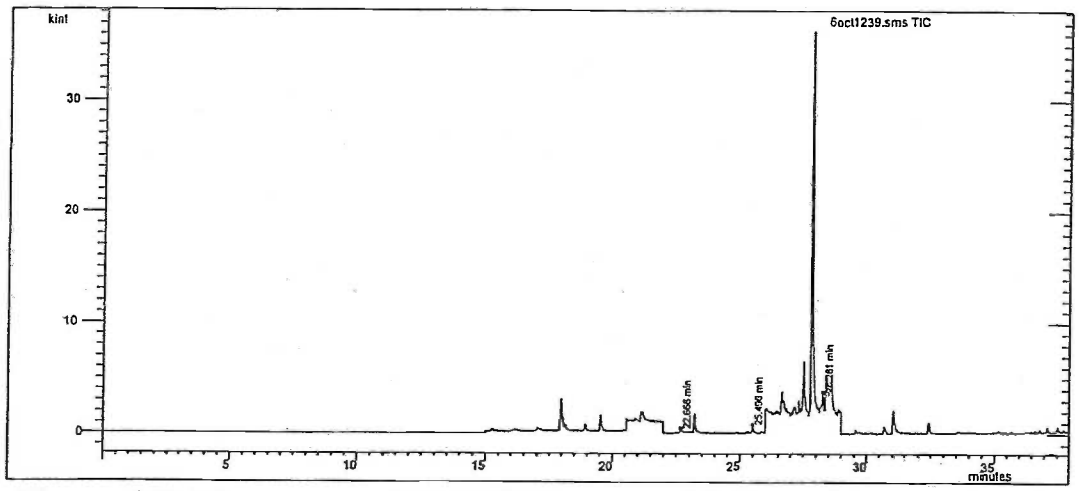
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(iS2)	999	2071	1.000
28.273	75.0	1,2,3 - TCP	1000	3534	0.011
22.669	98.0+70.0	Toluene-d8 (Surr 3)	895	816	1.199

ALAB : 60163

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1239.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.02ppb tcp lcs	**Acquisition Date:**	10/18/2012 2:47:41 PM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP

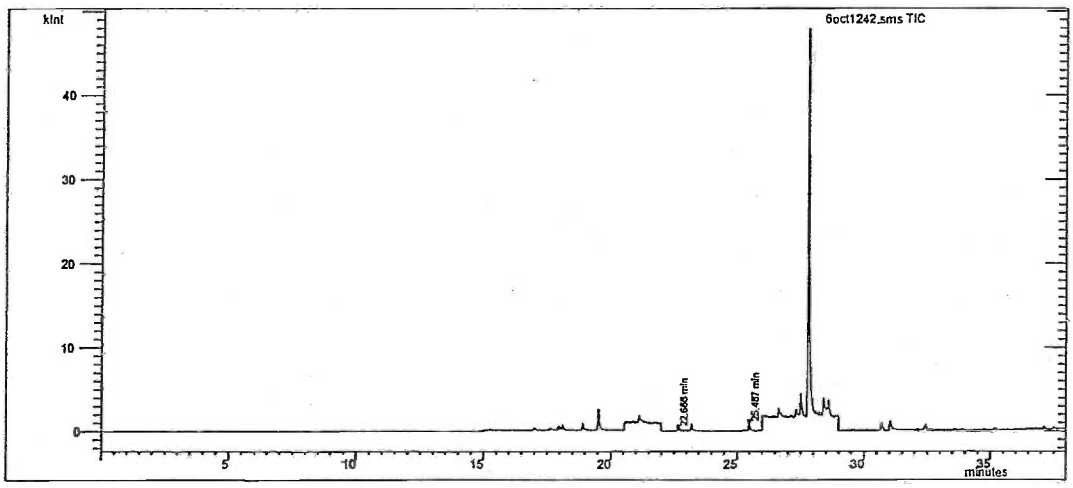


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(IS2)	998	1883	1.000
28.281	75.0	1,2,3 - TCP	1000	5091	0.018
22.666	98.0+70.0	Toluene-d8 (Surr 3)	925	793	1.281

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1242.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	method blank	**Acquisition Date:**	10/18/2012 5:47:35 PM
Inj. Notes:		**Operator Name:**	RyanP



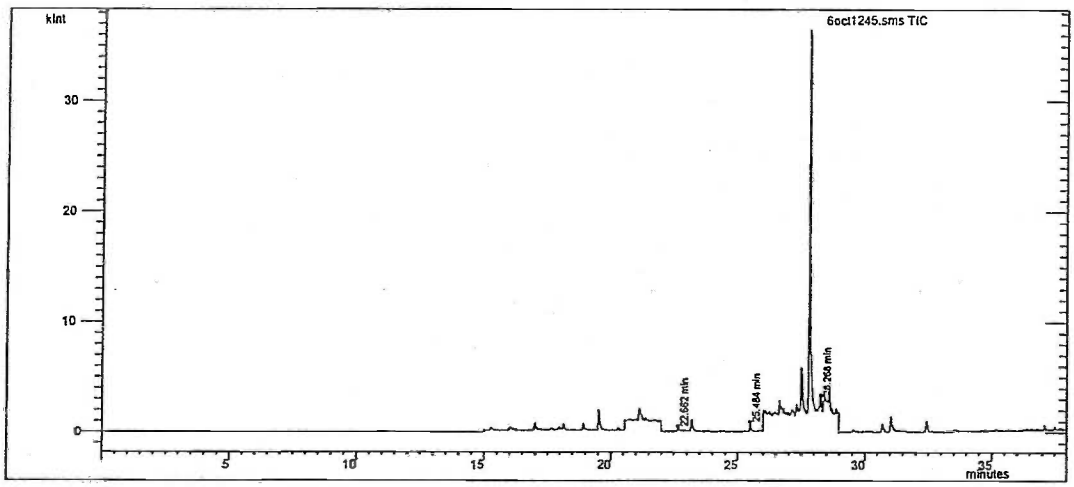
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.487	117.0+82.0	Chlorobenzene-d5(IS2)	999	3038	1.000
22.666	98.0+70.0	Toluene-d8 (Surr 3)	930	1250	1.251

ALAB : 00165

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1245.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.02ppb tcp lcsd	**Acquisition Date:**	10/18/2012 8:46:27 PM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.484	117.0+82.0	Chlorobenzene-d5(IS2)	999	2135	1.000
28.268	75.0	1,2,3 - TCP	1000	4628	0.014
22.662	98.0+70.0	Toluene-d8 (Surr 3)	898	881	1.255

ALAB : 00166

****

Varian Star Workstation - RecalcList Thu Oct 11 12:57:56 2012

RecalcList: C:\VarianWS\8260LIST.RCL

Create: Thu Sep 10 08:16:26 2009
Modifi: Wed Oct 10 19:38:06 2012

TCP-Q-101012

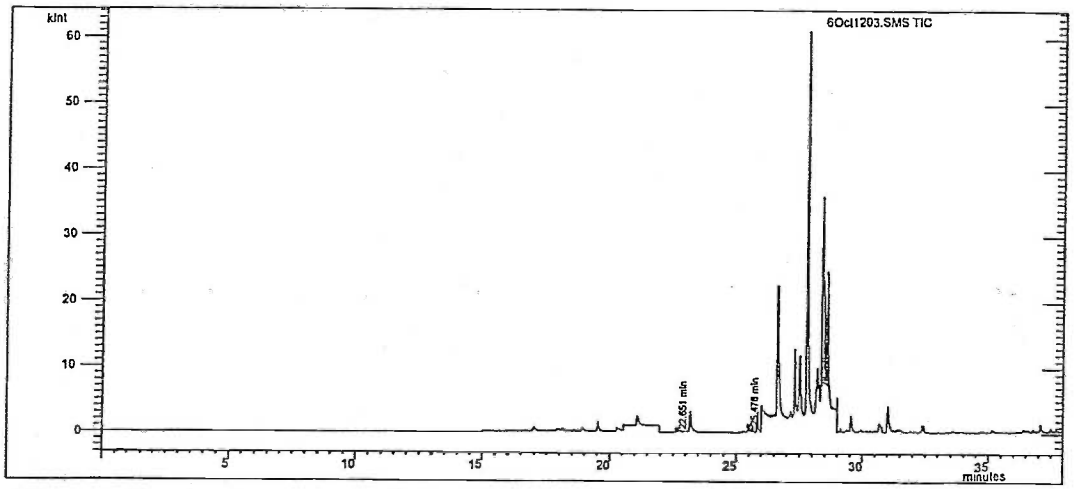
****

Line	Sample Name	Data File	Recalc Notes
1	rinse	c:\varianws\data\6oct12\6Oct1194.SMS	none
2	rinse	c:\varianws\data\6oct12\6Oct1195.SMS	none
3	rinse	c:\varianws\data\6oct12\6Oct1196.SMS	none
4	rinse	c:\varianws\data\6oct12\6Oct1197.SMS	none
5	rinse	c:\varianws\data\6oct12\6Oct1198.SMS	none
6	rinse	c:\varianws\data\6oct12\6Oct1199.SMS	none
7	0.02 tcp ccv	c:\varianws\data\6oct12\6Oct1200.SMS	none
8	rinse (1ul IS)	c:\varianws\data\6oct12\6Oct1201.SMS	none
9	rinse	c:\varianws\data\6oct12\6Oct1202.SMS	none
10	0.005ppb tcp ic	c:\varianws\data\6oct12\6Oct1203.SMS	none
11	0.01ppb tcp ic	c:\varianws\data\6oct12\6Oct1204.SMS	none
12	0.02ppb tcp ic	c:\varianws\data\6oct12\6Oct1205.SMS	none
13	0.05ppb tcp ic	c:\varianws\data\6oct12\6Oct1206.SMS	none
14	0.1ppb tcp ic	c:\varianws\data\6oct12\6Oct1207.SMS	none
15	rinse	c:\varianws\data\6oct12\6Oct1208.SMS	none
16	rinse	c:\varianws\data\6oct12\6Oct1209.SMS	none
17	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1210.SMS	none

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1203.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.005ppb tcp ic	**Acquisition Date:**	10/10/2012 11:07:24 AM
Inj. Notes:		**Operator Name:**	RyanP

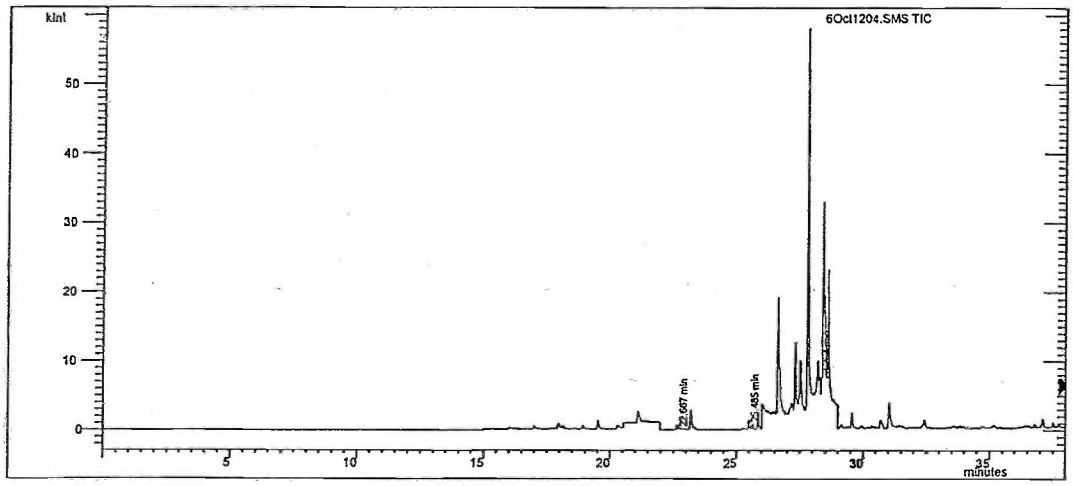


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.476	117.0+82.0	Chlorobenzene-d5(IS2)	999	2509	1.000
28.258	75.0	1,2,3 - TCP	1000	4701	0.013
22.651	98.0+70.0	Toluene-d8 (Surr 3)	937	807	0.978

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1204.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.01ppb tcp ic	**Acquisition Date:**	10/10/2012 12:34:25 PM
Inj. Notes:		**Operator Name:**	RyanP



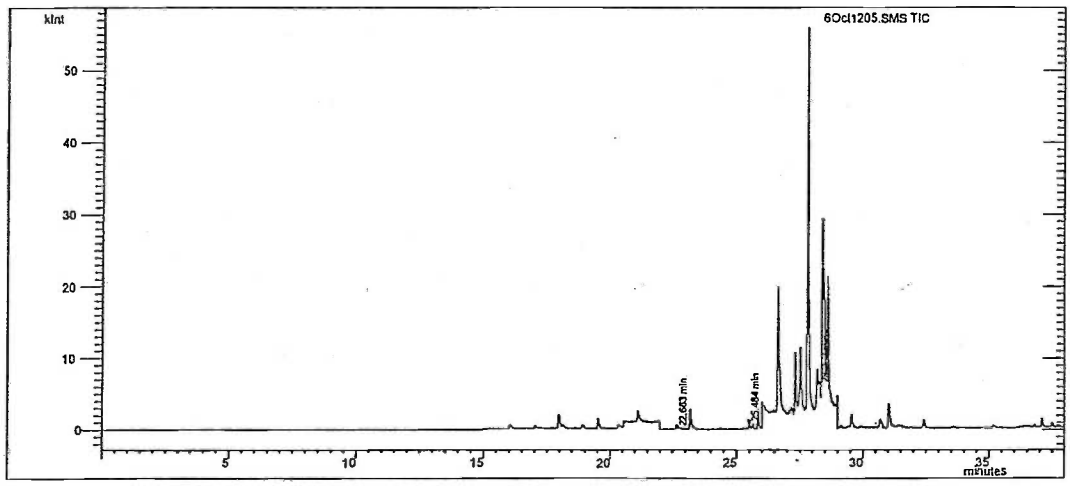
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.485	117.0+82.0	Chlorobenzene-d5(IS2)	999	2315	1.000
28.264	75.0	1,2,3 - TCP	1000	3780	0.011
22.667	98.0+70.0	Toluene-d8 (Surr 3)	944	739	0.971

ALAB : 88168

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1205.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.02ppb tcp ic	**Acquisition Date:**	10/10/2012 1:34:16 PM
Inj. Notes:		**Operator Name:**	RyanP



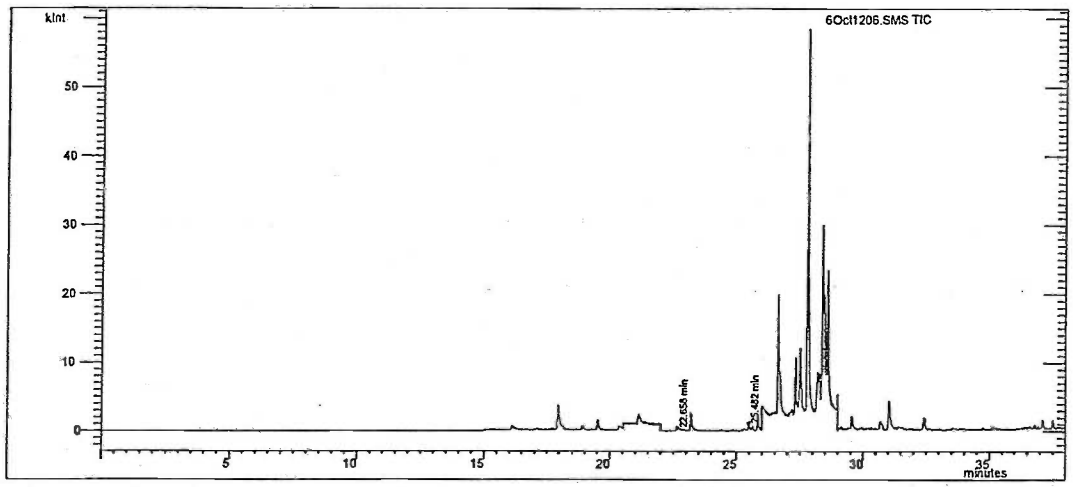
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.484	117.0+82.0	Chlorobenzene-d5(IS2)	998	2481	1.000
28.262	75.0	1,2,3 - TCP	1000	4556	0.012
22.663	98.0+70.0	Toluene-d8 (Surr 3)	938	820	1.005

ALAB:00169

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1206.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.05ppb tcp ic	**Acquisition Date:**	10/10/2012 2:31:34 PM
Inj. Notes:		**Operator Name:**	RyanP

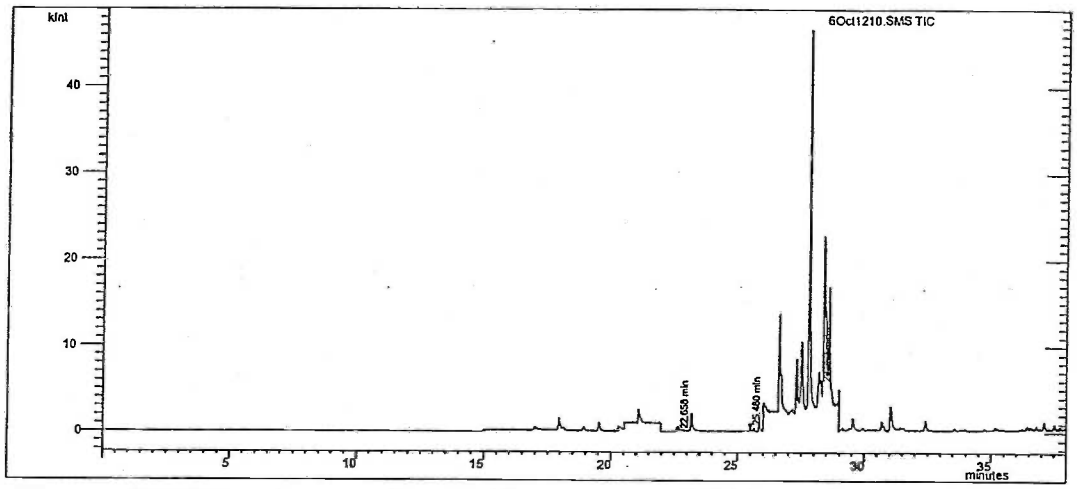


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.482	117.0+82.0	Chlorobenzene-d5(IS2)	998	2523	1.000
28.261	75.0	1,2,3 - TCP	1000	8833	0.023
22.658	98.0+70.0	Toluene-d8 (Surr 3)	930	865	1.042

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1210.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/10/2012 7:00:04 PM
Inj. Notes:		**Operator Name:**	RyanP

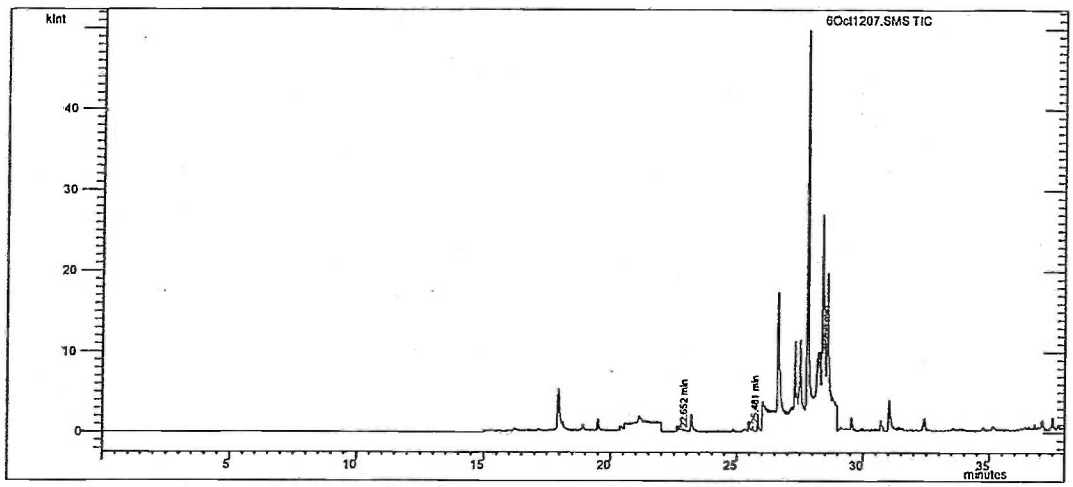


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.480	117.0+82.0	Chlorobenzene-d5(IS2)	999	1662	1.000
28.252	75.0	1,2,3 - TCP	1000	4459	0.018
22.658	98.0+70.0	Toluene-d8 (Surr 3)	902	612	1.120

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1207.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_101012.mth
Sample Name:	0.1ppb tcp ic	**Acquisition Date:**	10/10/2012 3:48:33 PM
Inj. Notes:		**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.481	117.0+82.0	Chlorobenzene-d5(IS2)	998	2377	1.000
28.268	75.0	1,2,3 - TCP	1000	11518	0.032
22.652	98.0+70.0	Toluene-d8 (Surr 3)	965	784	1.004

ALAB : 00170

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

CLIENT: ARCADIS
ATTN: Leah Levy

LAB REQUEST: 311995

PROJECT: BOU Burbank

FULL DATAPACKAGE

TABLE OF CONTENTS

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714 538-1209

ARCADIS
BOU Burbank Project
ALAB # 311995
Level III Data Package

ALAB Project Manger: Danielle Roberts
ALAB Laboratory Director: Ed Behare PhD
ALAB Quality Control Manager: Hongling Cao

Associated Laboratories
806 N. Batavia - Orange, CA 92868
Tel (714)771-6900 Fax (714)538-1209
www.associatedlabs.com
Info@associatedlabs.com

ACCREDITED IN ACCORDANCE WITH nelac 04232CA

Client:	ARCADIS	Lab Request:	311995
Address:	3750 Schaufele Ave., Suite 225 Long Beach, CA 90808	Report Date:	10/31/2012
		Date Received:	10/11/2012
Attn:	Leah Levy	Client ID:	14099

Comments: BOU Burbank
B0038189.0000.00001

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
311995-001	TB101112
311995-002	Equipment Blank
311995-003	B-6-CW02
311995-004	B-6-CW03R
311995-005	B-6-CW03R Duplicate
311995-006	B-1-CW28
311995-007	C-1-CW05
311995-008	A-1-CW09
311995-009	3851M
311995-010	B1CW17
311995-011	B-1-CW17 Duplicate

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

ALAB : 00002

CONFIDENTIAL

LMC-PET-00000375

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/11/2012 07:15	Site:	Notes:	
Sample #: 311995-001	Client Sample #: TB101112		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B						QCBatchID: QC1130649	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/11/2012 07:15	Site:	Notes:	
Sample #: 311995-001	Client Sample #: TB101112		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*93*	*70-145*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromodifluoromethane (SUR)	*91*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client	
Sampled: 10/11/2012 07:30	**Site:**	**Notes:**	
Sample #: 311995-002	**Client Sample #:** Equipment Blank		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 200.7	**Prep Method:** EPA 3010A						QCBatchID:	
Calcium	0.075 J	1	0.038	0.1	mg/L	10/17/12	nina	
Magnesium	0.047 J	1	0.016	0.1	mg/L	10/17/12	nina	
Method: EPA 218.6	**Prep Method:** EPA 218.6						QCBatchID:	QC1130675
Hexavalent Chromium	ND	1		1	ug/L	10/16/12	rybechay	
Method: EPA 300.0	**Prep Method:** Method						QCBatchID:	QC1130554
Chloride	ND	1		1	mg/L	10/15/12	wei	
Sulfate	ND	1		1	mg/L	10/15/12	wei	
Nitrate, as Nitrogen	ND	1		0.1	mg/L	10/15/12	wei	
Nitrite, as Nitrogen	ND	1		0.1	mg/L	10/15/12	wei	
Fluoride	ND	1		0.2	mg/L	10/15/12	wei	
Method: EPA 6010 *NELAC*	**Prep Method:** EPA 3010A/Filtered						QCBatchID:	QC1130580
Chromium	0.003 J	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						QCBatchID:	QC1130649
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/11/2012 07:30	**Site:**		**Notes:**
Sample #: 311995-002	**Client Sample #:** Equipment Blank		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	3.1	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*95*	*70-145*	
4-Bromofluorobenzene (SUR)	*96*	*70-145*	
Dibromodifluoromethane (SUR)	*94*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Method: EPA 8260M **Prep Method:** EPA 5030B **QCBatchID:** QC1130838

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/23/12	akk	

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*115*	*50-150*	

Method: SM 2320-B **Prep Method:** Method **QCBatchID:** QC1130512

Bicarbonate (HCO3)	ND	1	1	5	mg/L	10/15/12	hanhkhong	
Carbonate (CO3)	ND	1	0.7	5	mg/L	10/15/12	hanhkhong	
Hydroxide (OH)	ND	1	0.3	5	mg/L	10/15/12	hanhkhong	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/11/2012 07:30	Site:	Notes:
Sample #: 311995-002	Client Sample #: Equipment Blank	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Total Alkalinity (as CaCO3)	ND	1	1.8	5	mg/L	10/15/12	hanhkhong	
Method: SM 2510-B **Prep Method:** Method							**QCBatchID:**	
Specific Conductance	1.08	1		1	umhos/cm	10/16/12	rvenal	
Method: SM 2540-C **Prep Method:** Method							**QCBatchID:**	QC1130545
Total Dissolved Solids	ND	1	5.7	10	mg/L	10/15/12	rvenal	
Method: SM 4500-H+B **Prep Method:** Method							**QCBatchID:**	
pH	5.88	1			pH Units	10/15/12	robert	
Method: SM 4500-Si-C **Prep Method:** Method							**QCBatchID:**	QC1130568
Silica	ND	1	0.1	1	mg/L	10/16/12	cathy	
Method: SM 5310B **Prep Method:** Method							**QCBatchID:**	QC1130712
Total Organic Carbon (TOC)	ND	1		0.5	mg/L	10/19/12	quang	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS	**Collector:** Client
Sampled: 10/11/2012 10:10	**Site:**	**Notes:**
Sample #: 311995-003	**Client Sample #:** B-6-CW02	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B							**QCBatchID:** QC1130649
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/17/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/17/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/17/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/17/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/17/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/17/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/17/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/17/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/17/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/17/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/17/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/17/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/17/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/17/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/17/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/17/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/17/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/11/2012 10:10	Site:		Notes:
Sample #: 311995-003	Client Sample #: B-6-CW02		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/17/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/17/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/17/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/17/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/17/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/17/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/17/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/17/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/17/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/17/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/17/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/17/12	Liaoyuanz	
Tetrachloroethene	ND	1	0.15	0.5	ug/L	10/17/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/17/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/17/12	Liaoyuanz	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/17/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/17/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/17/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/17/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*95*	*70-145*	
4-Bromofluorobenzene (SUR)	*97*	*70-145*	
Dibromodifluoromethane (SUR)	*94*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/11/2012 10:20	Site:		Notes:
Sample #: 311995-004	Client Sample #: B-6-CW03R		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B						QCBatchID: QC1130739	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/19/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/19/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS		Collector: Client
Sampled: 10/11/2012 10:20	Site:		Notes:
Sample #: 311995-004	Client Sample #: B-6-CW03R		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	Liaoyuanz	
Tetrachloroethene	17	1	0.15	0.5	ug/L	10/19/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	Liaoyuanz	
Trichloroethene	4.2	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*114*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

Method: EPA 8260M Prep Method: EPA 5030B QCBatchID: QC1130844

1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/24/12	akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*97*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	**Client:** ARCADIS		**Collector:** Client
Sampled: 10/11/2012 10:25	**Site:**		**Notes:**
Sample #: 311995-005	**Client Sample #:** B-6-CW03R Duplicate		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260M	**Prep Method:** EPA 5030B							**QCBatchID:** QC1130929
1,2,3-Trichloropropane	ND	1	0.005	0.005	ug/L	10/26/12	akk	

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	*126*	*50-150*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/11/2012 12:49	Site:	Notes:	
Sample #: 311995-006	Client Sample #: B-1-CW28		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 NELAC	Prep Method: EPA 5030B							QCBatchID: QC1130739
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/19/12	Liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	Liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	Liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	Liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	Liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	Liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	Liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	Liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	Liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	Liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	Liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	Liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	Liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/19/12	Liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	Liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	Liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	Liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	Liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	Liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	Liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	Liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/19/12	Liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	Liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	Liaoyuanz	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	Liaoyuanz	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	Liaoyuanz	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	Liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/11/2012 12:49	Site:	Notes:	
Sample #: 311995-006	Client Sample #: B-1-CW28		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	Liaoyuanz	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	Liaoyuanz	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	Liaoyuanz	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	Liaoyuanz	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	Liaoyuanz	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	Liaoyuanz	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	Liaoyuanz	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	Liaoyuanz	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	Liaoyuanz	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	Liaoyuanz	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	Liaoyuanz	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	Liaoyuanz	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	Liaoyuanz	
Tetrachloroethene	46	1	0.15	0.5	ug/L	10/19/12	Liaoyuanz	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	Liaoyuanz	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	Liaoyuanz	
Trichloroethene	3.9	1	0.078	0.5	ug/L	10/19/12	Liaoyuanz	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	Liaoyuanz	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	Liaoyuanz	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	Liaoyuanz	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*110*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromodifluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

Matrix: Water	Client: ARCADIS	Collector: Client	
Sampled: 10/11/2012 15:00	Site:	Notes:	
Sample #: 311995-007	Client Sample #: C-1-CW05		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	**Prep Method: EPA 218.6**						**QCBatchID: QC1130675**	
Hexavalent Chromium	ND	1	0.1	1	ug/L	10/16/12	rybechay	
Method: EPA 6010 *NELAC*	**Prep Method: EPA 3010A/Filtered**						**QCBatchID: QC1130580**	
Chromium	0.004 J	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1130649**	
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/16/12	liaoyuanz	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/16/12	liaoyuanz	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/16/12	liaoyuanz	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/16/12	liaoyuanz	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/16/12	liaoyuanz	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/16/12	liaoyuanz	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/16/12	liaoyuanz	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/16/12	liaoyuanz	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/16/12	liaoyuanz	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/16/12	liaoyuanz	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/16/12	liaoyuanz	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/16/12	liaoyuanz	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/16/12	liaoyuanz	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/16/12	liaoyuanz	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/16/12	liaoyuanz	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/16/12	liaoyuanz	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/16/12	liaoyuanz	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/16/12	liaoyuanz	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/16/12	liaoyuanz	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/16/12	liaoyuanz	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/16/12	liaoyuanz	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/16/12	liaoyuanz	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/16/12	liaoyuanz	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/16/12	liaoyuanz	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/16/12	liaoyuanz	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/16/12	liaoyuanz	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/16/12	liaoyuanz	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/16/12	liaoyuanz	
Acetone	ND	1	0.2	10	ug/L	10/16/12	liaoyuanz	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/16/12	liaoyuanz	
Benzene	ND	1	0.071	0.5	ug/L	10/16/12	liaoyuanz	
Bromobenzene	ND	1	0.073	1	ug/L	10/16/12	liaoyuanz	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/16/12	liaoyuanz	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/16/12	liaoyuanz	
Bromoform	ND	1	0.053	0.5	ug/L	10/16/12	liaoyuanz	
Bromomethane	ND	1	0.13	1	ug/L	10/16/12	liaoyuanz	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/16/12	liaoyuanz	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/16/12	liaoyuanz	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/16/12	liaoyuanz	
Chloroethane	ND	1	0.4	0.5	ug/L	10/16/12	liaoyuanz	
Chloroform	ND	1	0.044	0.5	ug/L	10/16/12	liaoyuanz	
Chloromethane	ND	1	0.055	0.5	ug/L	10/16/12	liaoyuanz	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/16/12	liaoyuanz	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/16/12	liaoyuanz	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/16/12	liaoyuanz	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor