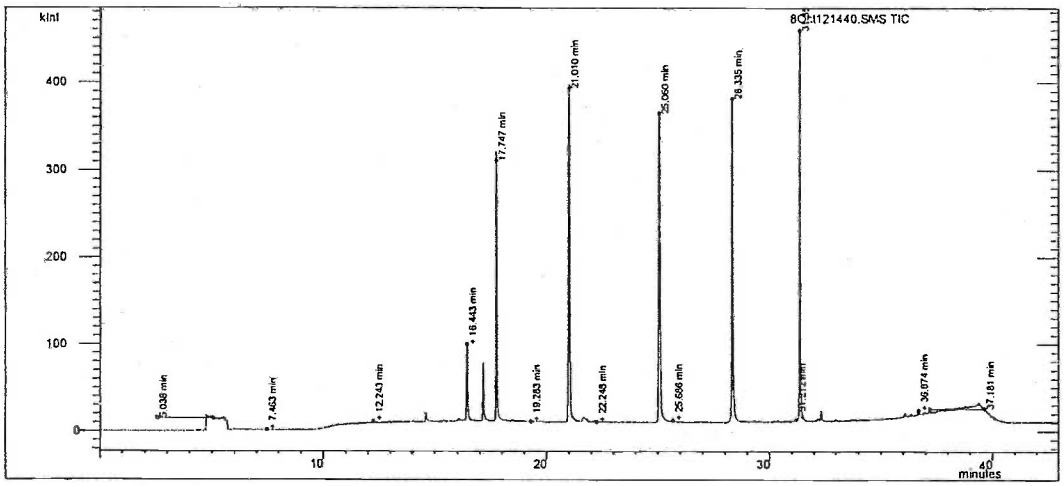
EPA 8260B

Volatile Organic Compounds + Oxygenates

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121440.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-001_10ml-3	**Acquisition Date:**	10/16/2012 5:31:25 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.747	96.0+70.0	Fluorobenzene (IS1)	998	559252	25.000
25.060	117.0	Chlorobenzene-d5(IS2)	991	467091	25.000
31.355	152.0	1,4-Dichlorobenzene-d4(IS3)	990	258880	25.000
5.038	85.0	Dichlorodifluoromethane	862	283	0.028
5.725	47.0+49.0+51.0	Chloromethane	740		N/A
6.134	62.0+64.0	Vinyl Chloride	900		N/A
7.463	94.0	Bromomethane	793	78	0.039
7.855	49.0+45.0	Chloroethane	637		N/A
8.814	101.0+103.0	Trichlorofluoromethane	966	597	0.031
9.954	59.0	Ethyl ether	836	61	0.028
10.593	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	892	359	0.024
10.668	61.0+96.0+98.0	1,1-Dichloroethene	978	1772	0.076
11.038	55.0+56.0	Acrolein	355		N/A
11.034	43.0+58.0	Acetone	260		N/A
11.166	142.0	Iodomethane	952	394	0.031
11.320	76.0	Carbon disulfide	495	688	0.054
11.818	41.0+40.0	Acetonitrile	567		N/A
11.817	41.0+39.0	Allyl chloride	828		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	588		N/A
12.243	49.0	Methylene Chloride	889	2616	0.214
12.701	59.0	tert-Butanol	545		N/A
12.891	73.0	Methyl-tert-butyl-ether (MTBE)	725	266	0.036
12.932	61.0+96.0	t-1,2-Dichloroethene	831	1349	0.072

10/18/12

ALAB : 00139

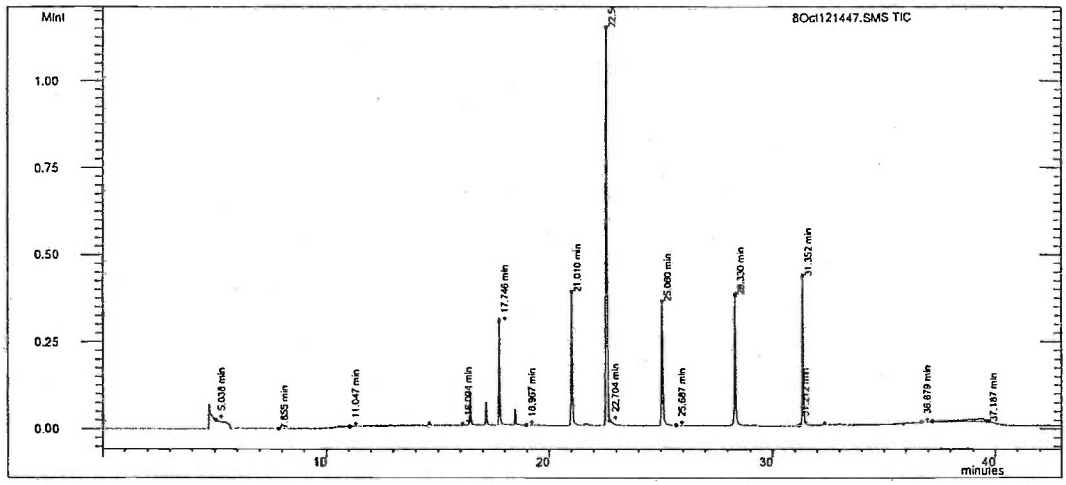
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	358		N/A
13.472	55.9+41.0	n-Hexane	614		N/A
14.030	63.0	1,1-Dichloroethane	957	805	0.066
14.049	45.0	Isopropyl ether	597		N/A
14.176	53.0	Chloroprene	590		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.954	59.0	Ethyl-tert-butyl-ether	460	123	0.007
15.330	77.0	2,2-Dichloropropane	775	220	0.025
15.414	96.0	c-1,2-Dichloroethene	826	910	0.142
15.655	43.0+72.0	2-Butanone (MEK)	546	18	0.020
15.609	54.0+55.0	Propionitrile	426		N/A
15.963	130.0+49.0	Bromochloromethane	884	582	0.078
15.692	39.0+41.0+71.0	Tetrahydrofuran	583		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	405		N/A
16.100	83.0+85.0	Chloroform	748	1729	0.090
16.404	97.0+99.0	1,1,1-Trichloroethane	629	399	0.016
16.443	111.0	Dibromofluoromethane (Surr1)	991	98099	24.287
16.727	117.0+119.0	Carbon Tetrachloride	617		N/A
16.734	75.0	1,1-Dichloropropene	887		N/A
17.016	41.0+39.0	Isobutyl alcohol	463		N/A
17.152	65.0	1,2-Dichloroethane-d4 (Surr2)	996	106902	23.789
17.206	78.0	Benzene	667	844	0.044
17.325	62.0+64.0	1,2-Dichloroethane	549	641	0.071
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	650		N/A
18.482	130.0+132.0+95.0	Trichloroethene	966	1493	0.067
18.927	63.0+65.0	1,2-Dichloropropane	557		N/A
18.939	41.0+39.0	Methyl methacrylate	586		N/A
19.091	88.0	1,4-Dioxane	351		N/A
19.283	93.0+174.0	Dibromomethane	935	494	0.087
19.513	83.0+85.0	Bromodichloromethane	608		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	392		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	283		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	360		N/A
21.010	98.0	Toluene-d8 (Surr3)	996	682295	25.379
21.180	92.0+91.0	Toluene	870	2964	0.044
21.721	75.0+77.0	t-1,3-Dichloropropene	426		N/A
21.740	69.0	Ethyl methacrylate	408		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	856		N/A
22.543	164.0+166.0	Tetrachloroethene	946		N/A
22.704	76.0+41.0	1,3-Dichloropropane	516		N/A
22.778	43.0+58.0+100.0	2-Hexanone	429		N/A
23.402	129.0+127.0	Dibromochloromethane	496		N/A
23.807	107.0+109.0	1,2-Dibromoethane	792		N/A
24.895	91.0	1-Chlorohexane	312		N/A
25.152	112.0+114.0	Chlorobenzene	643	947	0.025
25.358	106.0+91.0	Ethylbenzene	871	1510	0.018
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	529		N/A
25.686	106.0+91.0	p,m-Xylenes	932	3359	0.039
26.842	106.0+91.0	o-Xylene	912	1505	0.019
26.860	104.0+78.0	Styrene	851		N/A
27.565	171.0+173.0+175.0	Bromoform	780	49	0.010

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.789	105.0+120.0	Isopropylbenzene	895	1015	0.011
28.335	95.0	p-Bromofluorobenzene (Surr4)	984	337746	25.239
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	577		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	511		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	357		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	352		N/A
28.796	77.0+158.0	Bromobenzene	931	1064	0.034
28.924	91.0+120.0	n-Propylbenzene	835	1994	0.019
29.255	91.0+126.0	2-Chlorotoluene	839	1137	0.017
29.357	105.0+120.0	1,3,5-Trimethylbenzene	934	2324	0.021
29.549	91.0+126.0	4-Chlorotoluene	923	2382	0.036
30.212	119.0+91.0	tert-Butylbenzene	665	2448	0.019
30.367	105.0+120.0	1,2,4-Trimethylbenzene	948	3918	0.040
30.364	117.0	Pentachloroethane	481		N/A
30.775	105.0+134.0	sec-Butylbenzene	909	2624	0.025
31.123	119.0	4-Isopropyltoluene	902	3307	0.043
31.212	146.0+148.0	1,3-Dichlorobenzene	980	3224	0.073
31.423	146.0+148.0	1,4-Dichlorobenzene	537	2754	0.070
31.910	91.0	Benzyl Chloride	592		N/A
32.167	91.0+134.0	n-Butylbenzene	970	4550	0.053
32.382	146.0+148.0	1,2-Dichlorobenzene	927	2300	0.064
34.283	75.0+157.0	1,2-Dibromo-3-chloropropane	675	116	0.046
36.093	180.0+182.0	1,2,4-Trichlorobenzene	877	4861	0.173
36.342	225.0+226.0	Hexachlorobutadiene	968	1467	0.084
36.674	128.0	Naphthalene	994	6831	0.461
37.181	180.0+182.0	1,2,3-Trichlorobenzene	988	4141	0.169

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121447.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-002_10ml-3	**Acquisition Date:**	10/16/2012 10:55:15 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.746	96.0+70.0	Fluorobenzene (IS1)	998	548427	25.000
25.060	117.0	Chlorobenzene-d5(IS2)	991	458425	25.000
31.352	152.0	1,4-Dichlorobenzene-d4(IS3)	987	257136	25.000
5.038	85.0	Dichlorodifluoromethane	861	349	0.035
5.725	47.0+49.0+51.0	Chloromethane	299		N/A
6.134	62.0+64.0	Vinyl Chloride	858		N/A
7.435	94.0	Bromomethane	752		N/A
7.855	49.0+45.0	Chloroethane	627		N/A
8.793	101.0+103.0	Trichlorofluoromethane	928	569	0.030
9.933	59.0	Ethyl ether	869	101	0.047
10.602	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	988	1830	0.126
10.649	61.0+96.0+98.0	1,1-Dichloroethene	993	3025	0.132
11.038	55.0+56.0	Acrolein	229		N/A
11.047	43.0+58.0	Acetone	693	1383	2.042
11.150	142.0	Iodomethane	957	294	0.024
11.307	76.0	Carbon disulfide	663	983	0.078
11.825	41.0+40.0	Acetonitrile	826	1231	0.100
11.817	41.0+39.0	Allyl chloride	780		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	78		N/A
12.232	49.0	Methylene Chloride	950	1419	0.119
12.701	59.0	tert-Butanol	398		N/A
12.890	73.0	Methyl-tert-butyl-ether (MTBE)	960	812	0.113
12.918	61.0+96.0	t-1,2-Dichloroethene	833	992	0.054

10/17/12

ALAB : 0014

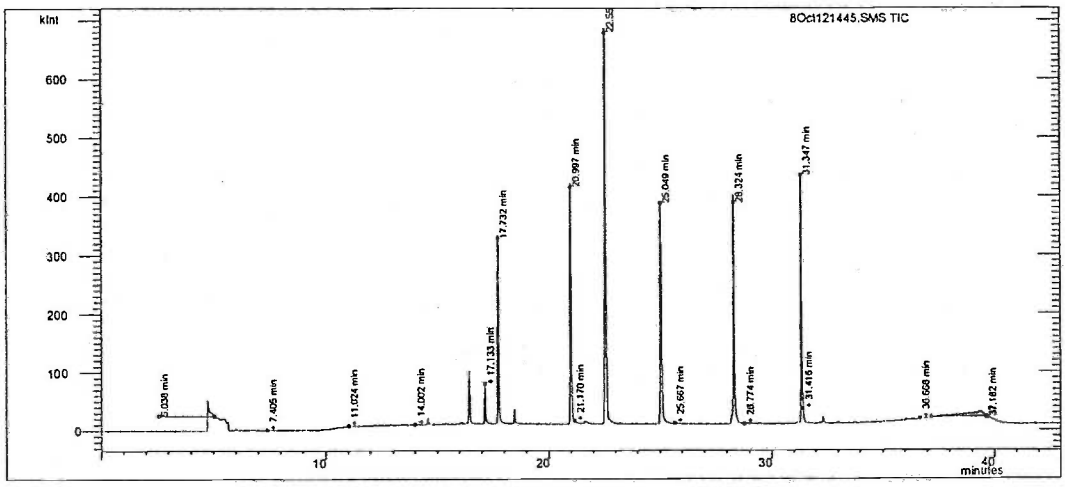
RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.899	53.0	Acrylonitrile	418	28	0.082
13.472	55.9+41.0	n-Hexane	720		N/A
14.023	63.0	1,1-Dichloroethane	928	726	0.061
14.071	45.0	Isopropyl ether	717	546	0.031
14.176	53.0	Chloroprene	105		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.885	59.0	Ethyl-tert-butyl-ether	437		N/A
15.320	77.0	2,2-Dichloropropane	623		N/A
15.408	96.0	c-1,2-Dichloroethene	852	968	0.154
15.464	43.0+72.0	2-Butanone (MEK)	294		N/A
15.696	54.0+55.0	Propionitrile	586	89	0.089
15.954	130.0+49.0	Bromochloromethane	878	395	0.054
15.692	39.0+41.0+71.0	Tetrahydrofuran	422		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	334		N/A
16.094	83.0+85.0	Chloroform	944	6199	0.330
16.400	97.0+99.0	1,1,1-Trichloroethane	653	575	0.024
16.437	111.0	Dibromofluoromethane (Surr1)	995	95415	24.088
16.727	117.0+119.0	Carbon Tetrachloride	822		N/A
16.734	75.0	1,1-Dichloropropene	884		N/A
17.016	41.0+39.0	Isobutyl alcohol	529		N/A
17.147	65.0	1,2-Dichloroethane-d4 (Surr2)	996	105551	23.952
17.209	78.0	Benzene	611	835	0.044
17.322	62.0+64.0	1,2-Dichloroethane	508	870	0.099
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	666		N/A
18.471	130.0+132.0+95.0	Trichloroethene	999	73050	3.362
18.966	63.0+65.0	1,2-Dichloropropane	870	384	0.067
18.967	41.0+39.0	Methyl methacrylate	632	1987	0.328
19.091	88.0	1,4-Dioxane	346		N/A
19.274	93.0+174.0	Dibromomethane	891	345	0.062
19.541	83.0+85.0	Bromodichloromethane	987	1669	0.137
20.682	63.0+43.0	2-Chloroethyl vinyl ether	667		N/A
20.368	75.0+77.0+39.0	c-1,3-Dichloropropene	479	214	0.014
20.679	43.0+58.0	4-Methyl-2-pentanone	125		N/A
21.010	98.0	Toluene-d8 (Surr3)	996	671700	25.457
21.182	92.0+91.0	Toluene	883	2712	0.041
21.721	75.0+77.0	t-1,3-Dichloropropene	365		N/A
21.740	69.0	Ethyl methacrylate	354		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	913		N/A
22.563	164.0+166.0	Tetrachloroethene	991	344741	131.663
22.704	76.0+41.0	1,3-Dichloropropane	107		N/A
22.778	43.0+58.0+100.0	2-Hexanone	89		N/A
23.402	129.0+127.0	Dibromochloromethane	679		N/A
23.807	107.0+109.0	1,2-Dibromoethane	552		N/A
24.895	91.0	1-Chlorohexane	429		N/A
25.162	112.0+114.0	Chlorobenzene	464	256	0.007
25.356	106.0+91.0	Ethylbenzene	844	757	0.009
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	642		N/A
25.687	106.0+91.0	p,m-Xylenes	912	1981	0.023
26.801	106.0+91.0	o-Xylene	882		N/A
26.860	104.0+78.0	Styrene	666		N/A
27.543	171.0+173.0+175.0	Bromoform	371		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	817		N/A
28.330	95.0	p-Bromofluorobenzene (Surr4)	990	327167	24.614
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	588		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	716		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	364		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	855		N/A
28.892	91.0+120.0	n-Propylbenzene	878		N/A
29.223	91.0+126.0	2-Chlorotoluene	872		N/A
29.326	105.0+120.0	1,3,5-Trimethylbenzene	821		N/A
29.498	91.0+126.0	4-Chlorotoluene	858		N/A
30.193	119.0+91.0	tert-Butylbenzene	707		N/A
30.331	105.0+120.0	1,2,4-Trimethylbenzene	929		N/A
30.364	117.0	Pentachloroethane	493		N/A
30.753	105.0+134.0	sec-Butylbenzene	892		N/A
31.119	119.0	4-Isopropyltoluene	833	1709	0.022
31.212	146.0+148.0	1,3-Dichlorobenzene	934	1524	0.035
31.422	146.0+148.0	1,4-Dichlorobenzene	446	1315	0.034
31.910	91.0	Benzyl Chloride	483		N/A
32.162	91.0+134.0	n-Butylbenzene	871	1670	0.019
32.375	146.0+148.0	1,2-Dichlorobenzene	824	1212	0.034
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	414		N/A
36.091	180.0+182.0	1,2,4-Trichlorobenzene	856	2154	0.077
36.341	225.0+226.0	Hexachlorobutadiene	962	807	0.047
36.679	128.0	Naphthalene	943	2002	0.136
37.187	180.0+182.0	1,2,3-Trichlorobenzene	973	1400	0.057

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121445.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-002_5ml-3	**Acquisition Date:**	10/16/2012 9:23:13 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.732	96.0+70.0	Fluorobenzene (IS1)	998	596784	25.000
25.049	117.0	Chlorobenzene-d5(IS2)	992	487254	25.000
31.347	152.0	1,4-Dichlorobenzene-d4(IS3)	988	264755	25.000
5.038	85.0	Dichlorodifluoromethane	885	243	0.023
5.725	47.0+49.0+51.0	Chloromethane	787		N/A
6.134	62.0+64.0	Vinyl Chloride	847		N/A
7.405	94.0	Bromomethane	744	199	0.093
7.855	49.0+45.0	Chloroethane	541		N/A
8.772	101.0+103.0	Trichlorofluoromethane	927	542	0.026
9.932	59.0	Ethyl ether	583		N/A
10.578	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	947	1268	0.080
10.627	61.0+96.0+98.0	1,1-Dichloroethene	993	2409	0.097
11.038	55.0+56.0	Acrolein	191		N/A
11.024	43.0+58.0	Acetone	637	3763	5.109
11.138	142.0	Iodomethane	926	334	0.025
11.289	76.0	Carbon disulfide	618	750	0.055
11.818	41.0+40.0	Acetonitrile	275		N/A
11.817	41.0+39.0	Allyl chloride	787		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	62		N/A
12.212	49.0	Methylene Chloride	814	1681	0.129
12.701	59.0	tert-Butanol	644		N/A
12.870	73.0	Methyl-tert-butyl-ether (MTBE)	891	531	0.068
12.899	61.0+96.0	t-1,2-Dichloroethene	847	962	0.048

ALAB : 901411

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	351		N/A
13.472	55.9+41.0	n-Hexane	604		N/A
14.002	63.0	1,1-Dichloroethane	959	804	0.062
14.037	45.0	Isopropyl ether	642	353	0.019
14.176	53.0	Chloroprene	639		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.872	59.0	Ethyl-tert-butyl-ether	376	162	0.009
15.304	77.0	2,2-Dichloropropane	671	235	0.025
15.388	96.0	c-1,2-Dichloroethene	975	1042	0.152
15.464	43.0+72.0	2-Butanone (MEK)	236		N/A
15.673	54.0+55.0	Propionitrile	320	104	0.095
15.938	130.0+49.0	Bromochloromethane	897	440	0.055
15.692	39.0+41.0+71.0	Tetrahydrofuran	452		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	490		N/A
16.076	83.0+85.0	Chloroform	913	3903	0.191
16.383	97.0+99.0	1,1,1-Trichloroethane	598	540	0.021
16.424	111.0	Dibromofluoromethane (Surr1)	991	101808	23.620
16.727	117.0+119.0	Carbon Tetrachloride	853		N/A
16.734	75.0	1,1-Dichloropropene	848		N/A
17.016	41.0+39.0	Isobutyl alcohol	456		N/A
17.133	65.0	1,2-Dichloroethane-d4 (Surr2)	996	113744	23.719
17.189	78.0	Benzene	693	968	0.047
17.303	62.0+64.0	1,2-Dichloroethane	518	719	0.075
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	554		N/A
18.458	130.0+132.0+95.0	Trichloroethene	999	38062	1.648
18.927	63.0+65.0	1,2-Dichloropropane	809		N/A
18.939	41.0+39.0	Methyl methacrylate	529		N/A
19.091	88.0	1,4-Dioxane	348		N/A
19.263	93.0+174.0	Dibromomethane	896	316	0.054
19.532	83.0+85.0	Bromodichloromethane	960	937	0.072
20.682	63.0+43.0	2-Chloroethyl vinyl ether	332		N/A
20.428	75.0+77.0+39.0	c-1,3-Dichloropropene	305		N/A
20.679	43.0+58.0	4-Methyl-2-pentanone	436		N/A
20.997	98.0	Toluene-d8 (Surr3)	996	714810	25.488
21.170	92.0+91.0	Toluene	948	3344	0.048
21.721	75.0+77.0	t-1,3-Dichloropropene	269		N/A
21.740	69.0	Ethyl methacrylate	393		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	874		N/A
22.551	164.0+166.0	Tetrachloroethene	990	189893	68.233
22.704	76.0+41.0	1,3-Dichloropropane	114		N/A
22.732	43.0+58.0+100.0	2-Hexanone	330	34	0.012
23.402	129.0+127.0	Dibromochloromethane	755		N/A
23.807	107.0+109.0	1,2-Dibromoethane	807		N/A
24.895	91.0	1-Chlorohexane	413		N/A
25.139	112.0+114.0	Chlorobenzene	510	508	0.013
25.358	106.0+91.0	Ethylbenzene	904	1186	0.014
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	602		N/A
25.667	106.0+91.0	p,m-Xylenes	926	2777	0.032
26.832	106.0+91.0	o-Xylene	913	1117	0.013
26.860	104.0+78.0	Styrene	696		N/A
27.543	171.0+173.0+175.0	Bromoform	127		N/A

136.466

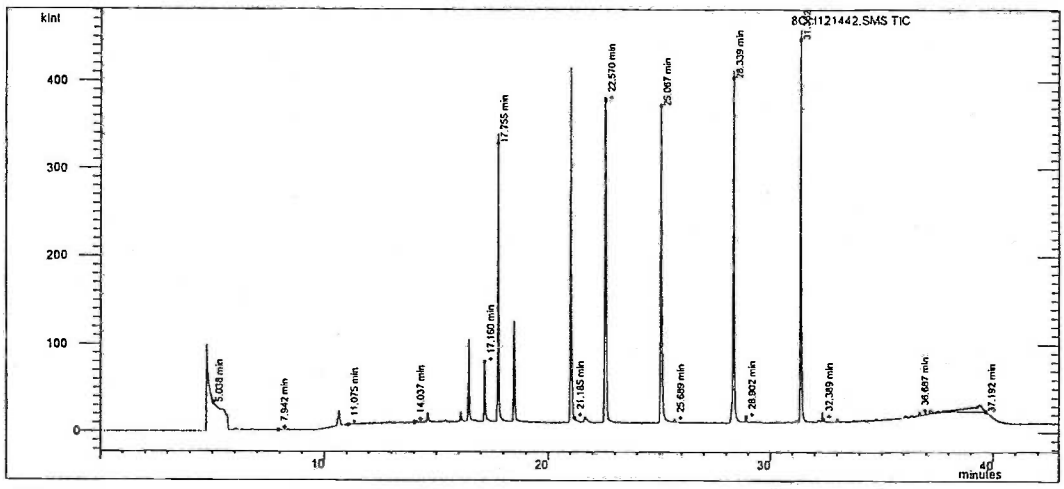
ALAB : 00145

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	838		N/A
28.324	95.0	p-Bromofluorobenzene (Surr4)	988	335742	24.532
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	420		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	508		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	316		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	210		N/A
28.774	77.0+158.0	Bromobenzene	828		N/A
28.892	91.0+120.0	n-Propylbenzene	812		N/A
29.223	91.0+126.0	2-Chlorotoluene	861		N/A
29.355	105.0+120.0	1,3,5-Trimethylbenzene	815	719	0.006
29.498	91.0+126.0	4-Chlorotoluene	909		N/A
30.193	119.0+91.0	tert-Butylbenzene	663		N/A
30.367	105.0+120.0	1,2,4-Trimethylbenzene	930	2586	0.026
30.364	117.0	Pentachloroethane	521		N/A
30.753	105.0+134.0	sec-Butylbenzene	913		N/A
31.113	119.0	4-Isopropyltoluene	845	1953	0.025
31.208	146.0+148.0	1,3-Dichlorobenzene	948	1490	0.033
31.416	146.0+148.0	1,4-Dichlorobenzene	413	1487	0.037
31.910	91.0	Benzyl Chloride	747		N/A
32.161	91.0+134.0	n-Butylbenzene	930	2178	0.025
32.373	146.0+148.0	1,2-Dichlorobenzene	834	1225	0.033
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	578		N/A
36.082	180.0+182.0	1,2,4-Trichlorobenzene	852	2322	0.081
36.330	225.0+226.0	Hexachlorobutadiene	968	1128	0.063
36.668	128.0	Naphthalene	981	2712	0.179
37.182	180.0+182.0	1,2,3-Trichlorobenzene	979	1832	0.073

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121442.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-003_10ml-11	**Acquisition Date:**	10/16/2012 7:03:46 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.755	96.0+70.0	Fluorobenzene (IS1)	997	586229	25.000
25.067	117.0	Chlorobenzene-d5(IS2)	991	478774	25.000
31.362	152.0	1,4-Dichlorobenzene-d4(IS3)	989	261577	25.000
5.038	85.0	Dichlorodifluoromethane	759	412	0.039
5.729	47.0+49.0+51.0	Chloromethane	440	81	0.028
6.134	62.0+64.0	Vinyl Chloride	836		N/A
7.229	94.0	Bromomethane	791	166	0.079
7.942	49.0+45.0	Chloroethane	542	205	0.318
8.818	101.0+103.0	Trichlorofluoromethane	967	1377	0.068
9.956	59.0	Ethyl ether	854	69	0.030
10.624	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	997	22188	1.426
10.673	61.0+96.0+98.0	1,1-Dichloroethene	994	20802	0.850
11.038	55.0+56.0	Acrolein	250		N/A
11.075	43.0+58.0	Acetone	508	1135	1.568
11.179	142.0	Iodomethane	956	405	0.031
11.331	76.0	Carbon disulfide	702	650	0.048
11.818	41.0+40.0	Acetonitrile	729		N/A
11.817	41.0+39.0	Allyl chloride	843		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	247		N/A
12.253	49.0	Methylene Chloride	824	1786	0.140
12.701	59.0	tert-Butanol	396		N/A
12.905	73.0	Methyl-tert-butyl-ether (MTBE)	950	1251	0.162
12.941	61.0+96.0	t-1,2-Dichloroethene	858	1454	0.074

10/17/12

ALAB : 00147

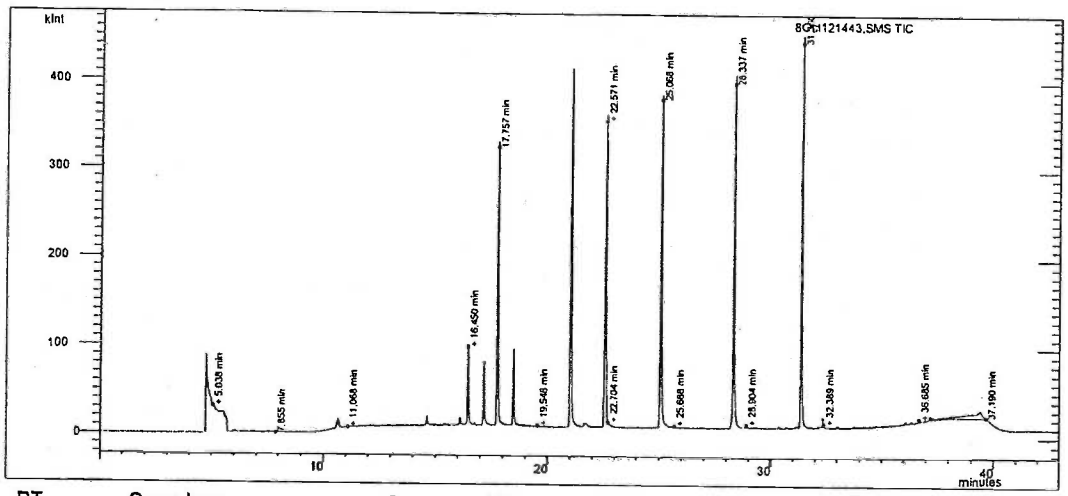
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	572		N/A
13.472	55.9+41.0	n-Hexane	695		N/A
14.037	63.0	1,1-Dichloroethane	949	1210	0.095
14.049	45.0	Isopropyl ether	654		N/A
14.176	53.0	Chloroprene	674		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.926	59.0	Ethyl-tert-butyl-ether	648	311	0.017
15.320	77.0	2,2-Dichloropropane	701		N/A
15.422	96.0	c-1,2-Dichloroethene	939	1392	0.207
15.464	43.0+72.0	2-Butanone (MEK)	194		N/A
15.451	54.0+55.0	Propionitrile	387	20	0.019
15.974	130.0+49.0	Bromochloromethane	902	426	0.054
15.692	39.0+41.0+71.0	Tetrahydrofuran	505		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	537		N/A
16.107	83.0+85.0	Chloroform	992	20583	1.025
16.418	97.0+99.0	1,1,1-Trichloroethane	889	1894	0.073
16.451	111.0	Dibromofluoromethane (Surr1)	990	102399	24.185
16.749	117.0+119.0	Carbon Tetrachloride	996	3383	0.155
16.734	75.0	1,1-Dichloropropene	789		N/A
17.016	41.0+39.0	Isobutyl alcohol	618		N/A
17.160	65.0	1,2-Dichloroethane-d4 (Surr2)	996	114448	24.296
17.219	78.0	Benzene	730	964	0.048
17.332	62.0+64.0	1,2-Dichloroethane	736	1986	0.211
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	572		N/A
18.474	130.0+132.0+95.0	Trichloroethene	999	176901	7.795
18.969	63.0+65.0	1,2-Dichloropropane	757	385	0.064
18.939	41.0+39.0	Methyl methacrylate	493		N/A
19.091	88.0	1,4-Dioxane	342		N/A
19.295	93.0+174.0	Dibromomethane	935	351	0.060
19.549	83.0+85.0	Bromodichloromethane	968	1332	0.105
20.682	63.0+43.0	2-Chloroethyl vinyl ether	319		N/A
20.357	75.0+77.0+39.0	c-1,3-Dichloropropene	427	213	0.013
20.679	43.0+58.0	4-Methyl-2-pentanone	344		N/A
21.017	98.0	Toluene-d8 (Surr3)	996	703934	25.545
21.185	92.0+91.0	Toluene	883	3518	0.052
21.721	75.0+77.0	t-1,3-Dichloropropene	204		N/A
21.740	69.0	Ethyl methacrylate	297		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	852		N/A
22.570	164.0+166.0	Tetrachloroethene	994	102204	37.374
22.704	76.0+41.0	1,3-Dichloropropane	133		N/A
22.778	43.0+58.0+100.0	2-Hexanone	516		N/A
23.402	129.0+127.0	Dibromochloromethane	606		N/A
23.807	107.0+109.0	1,2-Dibromoethane	563		N/A
24.895	91.0	1-Chlorohexane	327		N/A
25.153	112.0+114.0	Chlorobenzene	636	817	0.021
25.359	106.0+91.0	Ethylbenzene	909	1502	0.017
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	569		N/A
25.689	106.0+91.0	p,m-Xylenes	969	3909	0.045
26.844	106.0+91.0	o-Xylene	924	1375	0.017
26.860	104.0+78.0	Styrene	823		N/A
27.543	171.0+173.0+175.0	Bromoform	279		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	846		N/A
28.339	95.0	p-Bromofluorobenzene (Surr4)	989	337302	24.946
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	667		N/A
28.902	75.0+110.0	1,2,3-Trichloropropane	994	5791	1.256
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	313		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	394		N/A
28.899	77.0+158.0	Bromobenzene	802	835	0.027
28.892	91.0+120.0	n-Propylbenzene	727		N/A
29.223	91.0+126.0	2-Chlorotoluene	907		N/A
29.358	105.0+120.0	1,3,5-Trimethylbenzene	935	1523	0.014
29.498	91.0+126.0	4-Chlorotoluene	903		N/A
30.193	119.0+91.0	tert-Butylbenzene	720		N/A
30.376	105.0+120.0	1,2,4-Trimethylbenzene	943	2862	0.029
30.364	117.0	Pentachloroethane	445		N/A
30.753	105.0+134.0	sec-Butylbenzene	925		N/A
31.127	119.0	4-Isopropyltoluene	878	2323	0.030
31.217	146.0+148.0	1,3-Dichlorobenzene	975	2389	0.054
31.433	146.0+148.0	1,4-Dichlorobenzene	467	1989	0.050
31.910	91.0	Benzyl Chloride	539		N/A
32.172	91.0+134.0	n-Butylbenzene	950	2684	0.031
32.389	146.0+148.0	1,2-Dichlorobenzene	875	1893	0.052
34.302	75.0+157.0	1,2-Dibromo-3-chloropropane	554	171	0.067
36.096	180.0+182.0	1,2,4-Trichlorobenzene	888	3132	0.110
36.351	225.0+226.0	Hexachlorobutadiene	982	961	0.054
36.687	128.0	Naphthalene	966	3661	0.244
37.192	180.0+182.0	1,2,3-Trichlorobenzene	983	2386	0.096

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121443.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-004_10ml-11	**Acquisition Date:**	10/16/2012 7:49:55 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.757	96.0+70.0	Fluorobenzene (IS1)	998	586683	25.000
25.068	117.0	Chlorobenzene-d5(IS2)	991	482207	25.000
31.360	152.0	1,4-Dichlorobenzene-d4(IS3)	989	262584	25.000
5.038	85.0	Dichlorodifluoromethane	882	459	0.043
5.725	47.0+49.0+51.0	Chloromethane	681		N/A
6.134	62.0+64.0	Vinyl Chloride	753		N/A
7.267	94.0	Bromomethane	774	90	0.043
7.855	49.0+45.0	Chloroethane	577		N/A
8.808	101.0+103.0	Trichlorofluoromethane	978	981	0.049
9.932	59.0	Ethyl ether	642		N/A
10.623	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	996	12703	0.816
10.669	61.0+96.0+98.0	1,1-Dichloroethene	994	15334	0.626
11.038	55.0+56.0	Acrolein	303		N/A
11.068	43.0+58.0	Acetone	750	1134	1.565
11.171	142.0	Iodomethane	956	361	0.027
11.324	76.0	Carbon disulfide	623	872	0.065
11.818	41.0+40.0	Acetonitrile	651		N/A
11.817	41.0+39.0	Allyl chloride	661		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	475		N/A
12.251	49.0	Methylene Chloride	711	1561	0.122
12.701	59.0	tert-Butanol	527		N/A
12.910	73.0	Methyl-tert-butyl-ether (MTBE)	953	998	0.129
12.939	61.0+96.0	t-1,2-Dichloroethene	785	1277	0.065

10/16/12

ALAB : 00150

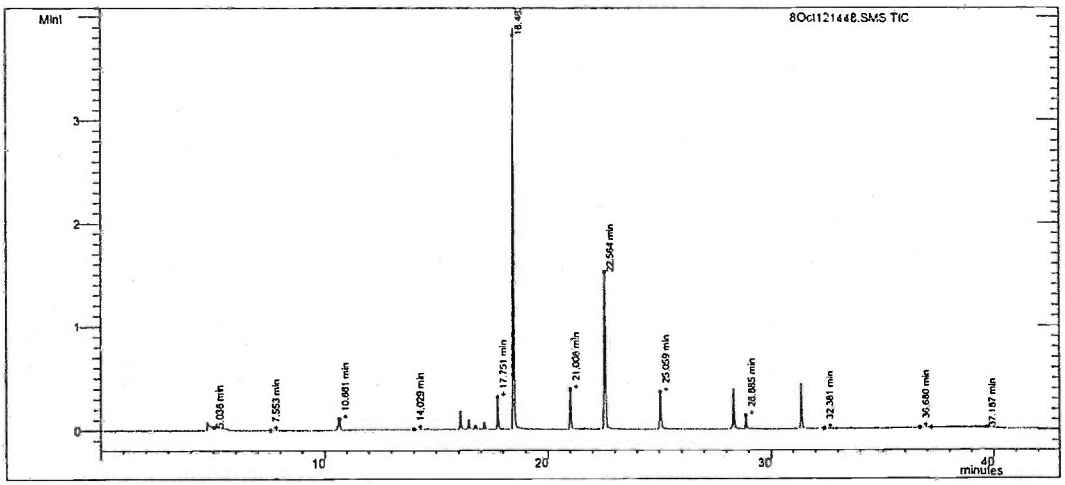
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	448		N/A
13.472	55.9+41.0	n-Hexane	541		N/A
14.038	63.0	1,1-Dichloroethane	918	1063	0.083
14.049	45.0	Isopropyl ether	629		N/A
14.176	53.0	Chloroprene	439		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.926	59.0	Ethyl-tert-butyl-ether	534	126	0.007
15.328	77.0	2,2-Dichloropropane	815	318	0.034
15.422	96.0	c-1,2-Dichloroethene	820	1119	0.166
15.464	43.0+72.0	2-Butanone (MEK)	89		N/A
15.609	54.0+55.0	Propionitrile	267		N/A
15.933	130.0+49.0	Bromochloromethane	275		N/A
15.692	39.0+41.0+71.0	Tetrahydrofuran	268		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	399		N/A
16.107	83.0+85.0	Chloroform	986	16019	0.797
16.414	97.0+99.0	1,1,1-Trichloroethane	745	932	0.036
16.450	111.0	Dibromofluoromethane (Surr1)	992	101702	24.001
16.752	117.0+119.0	Carbon Tetrachloride	988	2167	0.099
16.734	75.0	1,1-Dichloropropene	783		N/A
17.016	41.0+39.0	Isobutyl alcohol	411		N/A
17.157	65.0	1,2-Dichloroethane-d4 (Surr2)	996	112522	23.869
17.218	78.0	Benzene	673	946	0.047
17.334	62.0+64.0	1,2-Dichloroethane	685	1429	0.152
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	563		N/A
18.476	130.0+132.0+95.0	Trichloroethene	999	140941	6.166
18.968	63.0+65.0	1,2-Dichloropropane	613	387	0.064
18.939	41.0+39.0	Methyl methacrylate	634		N/A
19.091	88.0	1,4-Dioxane	333		N/A
19.280	93.0+174.0	Dibromomethane	900	355	0.061
19.548	83.0+85.0	Bromodichloromethane	977	1163	0.091
20.682	63.0+43.0	2-Chloroethyl vinyl ether	227		N/A
20.520	75.0+77.0+39.0	c-1,3-Dichloropropene	517	388	0.024
20.679	43.0+58.0	4-Methyl-2-pentanone	247		N/A
21.018	98.0	Toluene-d8 (Surr3)	996	707960	25.508
21.184	92.0+91.0	Toluene	903	3361	0.049
21.721	75.0+77.0	t-1,3-Dichloropropene	340		N/A
21.740	69.0	Ethyl methacrylate	244		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	828		N/A
22.571	164.0+166.0	Tetrachloroethene	990	98664	35.823
22.704	76.0+41.0	1,3-Dichloropropane	133		N/A
22.778	43.0+58.0+100.0	2-Hexanone	355		N/A
23.402	129.0+127.0	Dibromochloromethane	722		N/A
23.860	107.0+109.0	1,2-Dibromoethane	731	109	0.013
24.895	91.0	1-Chlorohexane	366		N/A
25.161	112.0+114.0	Chlorobenzene	561	682	0.017
25.361	106.0+91.0	Ethylbenzene	921	1461	0.017
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	621		N/A
25.688	106.0+91.0	p,m-Xylenes	932	3236	0.037
26.847	106.0+91.0	o-Xylene	853	1377	0.017
26.860	104.0+78.0	Styrene	824		N/A
27.543	171.0+173.0+175.0	Bromoform	469		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	772		N/A
28.337	95.0	p-Bromofluorobenzene (Surr4)	983	346991	25.564
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	618		N/A
28.904	75.0+110.0	1,2,3-Trichloropropane	989	2486	0.537
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	345		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	122		N/A
28.774	77.0+158.0	Bromobenzene	816		N/A
28.892	91.0+120.0	n-Propylbenzene	759		N/A
29.223	91.0+126.0	2-Chlorotoluene	820		N/A
29.361	105.0+120.0	1,3,5-Trimethylbenzene	851	1666	0.015
29.498	91.0+126.0	4-Chlorotoluene	904		N/A
30.193	119.0+91.0	tert-Butylbenzene	676		N/A
30.374	105.0+120.0	1,2,4-Trimethylbenzene	961	2999	0.030
30.364	117.0	Pentachloroethane	276		N/A
30.753	105.0+134.0	sec-Butylbenzene	908		N/A
31.122	119.0	4-Isopropyltoluene	836	1493	0.019
31.213	146.0+148.0	1,3-Dichlorobenzene	966	2058	0.046
31.422	146.0+148.0	1,4-Dichlorobenzene	466	1889	0.047
31.910	91.0	Benzyl Chloride	509		N/A
32.173	91.0+134.0	n-Butylbenzene	886	2081	0.024
32.389	146.0+148.0	1,2-Dichlorobenzene	867	1845	0.051
34.274	75.0+157.0	1,2-Dibromo-3-chloropropane	562	79	0.031
36.093	180.0+182.0	1,2,4-Trichlorobenzene	859	2778	0.097
36.349	225.0+226.0	Hexachlorobutadiene	969	903	0.051
36.685	128.0	Naphthalene	951	3027	0.201
37.190	180.0+182.0	1,2,3-Trichlorobenzene	968	2162	0.087

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121448.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-005_10ml-7	**Acquisition Date:**	10/16/2012 11:41:19 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.751	96.0+70.0	Fluorobenzene (IS1)	998	584191	25.000
25.059	117.0	Chlorobenzene-d5(IS2)	992	466121	25.000
31.354	152.0	1,4-Dichlorobenzene-d4(IS3)	988	261809	25.000
5.038	85.0	Dichlorodifluoromethane	840	390	0.037
5.725	47.0+49.0+51.0	Chloromethane	724		N/A
6.134	62.0+64.0	Vinyl Chloride	869		N/A
7.553	94.0	Bromomethane	526	112	0.053
7.855	49.0+45.0	Chloroethane	632		N/A
8.812	101.0+103.0	Trichlorofluoromethane	984	2780	0.139
9.943	59.0	Ethyl ether	761	88	0.038
10.614	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	997	79983	5.159
10.661	61.0+96.0+98.0	1,1-Dichloroethene	998	222840	9.137
11.038	55.0+56.0	Acrolein	223		N/A
11.061	43.0+58.0	Acetone	586	1316	1.824
11.167	142.0	Iodomethane	947	254	0.019
11.322	76.0	Carbon disulfide	690	709	0.053
11.818	41.0+40.0	Acetonitrile	726		N/A
11.817	41.0+39.0	Allyl chloride	789		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	774		N/A
12.243	49.0	Methylene Chloride	854	2177	0.171
12.701	59.0	tert-Butanol	751		N/A
12.896	73.0	Methyl-tert-butyl-ether (MTBE)	856	763	0.099
12.934	61.0+96.0	t-1,2-Dichloroethene	811	1292	0.066

10/17/12

ALAB : 00153

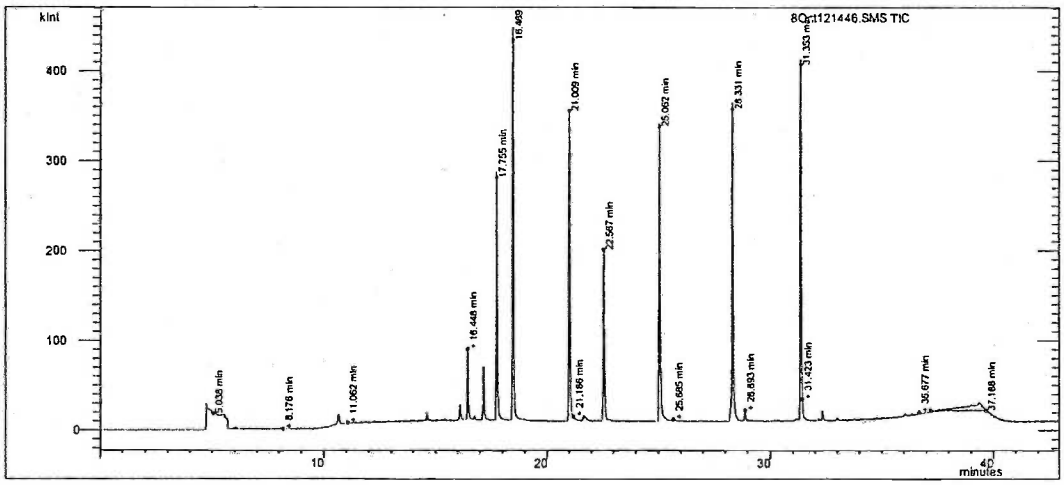
RT	Quan Ions	Compound Name	R.Match	Area	Amount	
13.028	53.0	Acrylonitrile	436		N/A	
13.472	55.9+41.0	n-Hexane	732		N/A	
14.029	63.0	1,1-Dichloroethane	978	1873	0.148	
14.049	45.0	Isopropyl ether	673		N/A	
14.176	53.0	Chloroprene	683		N/A	
14.042	43.0	Vinyl acetate	911		N/A	
14.906	59.0	Ethyl-tert-butyl-ether	572	210	0.012	
15.320	77.0	2,2-Dichloropropane	798	387	0.042	
15.418	96.0	c-1,2-Dichloroethene	896	1402	0.209	
15.464	43.0+72.0	2-Butanone (MEK)	205		N/A	
15.512	54.0+55.0	Propionitrile	432	18	0.017	
15.933	130.0+49.0	Bromochloromethane	247		N/A	
15.692	39.0+41.0+71.0	Tetrahydrofuran	578		N/A	
15.748	39.0+41.0+67.0	Methacrylonitrile	547		N/A	
16.092	83.0+85.0	Chloroform	982	369480	18.458	
16.410	97.0+99.0	1,1,1-Trichloroethane	979	7982	0.310	
16.442	111.0	Dibromofluoromethane (Surr1)	988	99324	23.540	
16.741	117.0+119.0	Carbon Tetrachloride	999	86494	3.970	
16.734	75.0	1,1-Dichloropropene	464		N/A	
17.016	41.0+39.0	Isobutyl alcohol	323		N/A	
17.153	65.0	1,2-Dichloroethane-d4 (Surr2)	996	107052	22.805	
17.209	78.0	Benzene	754	1498	0.074	
17.330	62.0+64.0	1,2-Dichloroethane	746	1666	0.178	
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	564		N/A	
18.462	130.0+132.0+95.0	Trichloroethene	999	7.613E6	344.557	>over
18.966	63.0+65.0	1,2-Dichloropropane	928	643	0.110	
18.939	41.0+39.0	Methyl methacrylate	677		N/A	
19.091	88.0	1,4-Dioxane	162		N/A	
19.272	93.0+174.0	Dibromomethane	886	362	0.064	
19.539	83.0+85.0	Bromodichloromethane	994	3143	0.254	
20.682	63.0+43.0	2-Chloroethyl vinyl ether	409		N/A	
20.470	75.0+77.0+39.0	c-1,3-Dichloropropene	399	217	0.014	
20.679	43.0+58.0	4-Methyl-2-pentanone	208		N/A	
21.008	98.0	Toluene-d8 (Surr3)	996	680227	25.355	
21.180	92.0+91.0	Toluene	906	2948	0.044	
21.721	75.0+77.0	t-1,3-Dichloropropene	350		N/A	
21.740	69.0	Ethyl methacrylate	274		N/A	
22.264	97.0+99.0	1,1,2-Trichloroethane	995	3778	0.609	
22.564	164.0+166.0	Tetrachloroethene	991	508877	191.141	>over
22.704	76.0+41.0	1,3-Dichloropropane	122		N/A	
22.778	43.0+58.0+100.0	2-Hexanone	81		N/A	
23.402	129.0+127.0	Dibromochloromethane	940		N/A	
23.807	107.0+109.0	1,2-Dibromoethane	814		N/A	
24.895	91.0	1-Chlorohexane	411		N/A	
25.153	112.0+114.0	Chlorobenzene	741	1479	0.039	
25.344	106.0+91.0	Ethylbenzene	884	1187	0.014	
25.354	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	771	1179	0.061	
25.684	106.0+91.0	p,m-Xylenes	940	2102	0.024	
26.801	106.0+91.0	o-Xylene	882		N/A	
26.860	104.0+78.0	Styrene	691		N/A	
27.543	171.0+173.0+175.0	Bromoform	270		N/A	

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	761		N/A
28.333	95.0	p-Bromofluorobenzene (Surr4)	987	337076	24.907
28.887	83.0+85.0	1,1,2,2-Tetrachloroethane	426	3185	0.489
28.885	75.0+110.0	1,2,3-Trichloropropane	997	144965	31.420
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	275		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	408		N/A
28.882	77.0+158.0	Bromobenzene	628	31404	1.005
28.892	91.0+120.0	n-Propylbenzene	363		N/A
29.223	91.0+126.0	2-Chlorotoluene	822		N/A
29.360	105.0+120.0	1,3,5-Trimethylbenzene	712	1134	0.010
29.498	91.0+126.0	4-Chlorotoluene	912		N/A
30.193	119.0+91.0	tert-Butylbenzene	656		N/A
30.364	105.0+120.0	1,2,4-Trimethylbenzene	945	2150	0.022
30.364	117.0	Pentachloroethane	423		N/A
30.753	105.0+134.0	sec-Butylbenzene	884		N/A
31.118	119.0	4-Isopropyltoluene	840	1825	0.023
31.209	146.0+148.0	1,3-Dichlorobenzene	912	1495	0.033
31.420	146.0+148.0	1,4-Dichlorobenzene	430	1284	0.032
31.910	91.0	Benzyl Chloride	638		N/A
32.168	91.0+134.0	n-Butylbenzene	873	1977	0.023
32.381	146.0+148.0	1,2-Dichlorobenzene	857	1319	0.036
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	498		N/A
36.091	180.0+182.0	1,2,4-Trichlorobenzene	843	2127	0.075
36.340	225.0+226.0	Hexachlorobutadiene	968	975	0.055
36.680	128.0	Naphthalene	981	2184	0.146
37.187	180.0+182.0	1,2,3-Trichlorobenzene	964	1467	0.059

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121446.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-005_1ml-7	**Acquisition Date:**	10/16/2012 10:09:18 PM
Inj. Notes:	PH<2	**Operator Name:**	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.755	96.0+70.0	Fluorobenzene (IS1)	998	511845	25.000
25.062	117.0	Chlorobenzene-d5(IS2)	991	424669	25.000
31.353	152.0	1,4-Dichlorobenzene-d4(IS3)	987	244807	25.000
5.038	85.0	Dichlorodifluoromethane	916	250	0.027
5.725	47.0+49.0+51.0	Chloromethane	760		N/A
6.134	62.0+64.0	Vinyl Chloride	766		N/A
7.435	94.0	Bromomethane	799		N/A
8.176	49.0+45.0	Chloroethane	466	47	0.083
8.819	101.0+103.0	Trichlorofluoromethane	973	748	0.043
9.964	59.0	Ethyl ether	729	82	0.041
10.618	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	993	7477	0.550
10.668	61.0+96.0+98.0	1,1-Dichloroethene	995	22343	1.046
11.038	55.0+56.0	Acrolein	198		N/A
11.062	43.0+58.0	Acetone	722	3585	5.675
11.164	142.0	Iodomethane	953	266	0.023
11.326	76.0	Carbon disulfide	662	592	0.050
11.891	41.0+40.0	Acetonitrile	341	7426	0.644
11.817	41.0+39.0	Allyl chloride	331		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	157		N/A
12.251	49.0	Methylene Chloride	601	1606	0.144
12.701	59.0	tert-Butanol	607		N/A
12.911	73.0	Methyl-tert-butyl-ether (MTBE)	815	320	0.048
12.941	61.0+96.0	t-1,2-Dichloroethene	800	914	0.053

ALAB : 00156

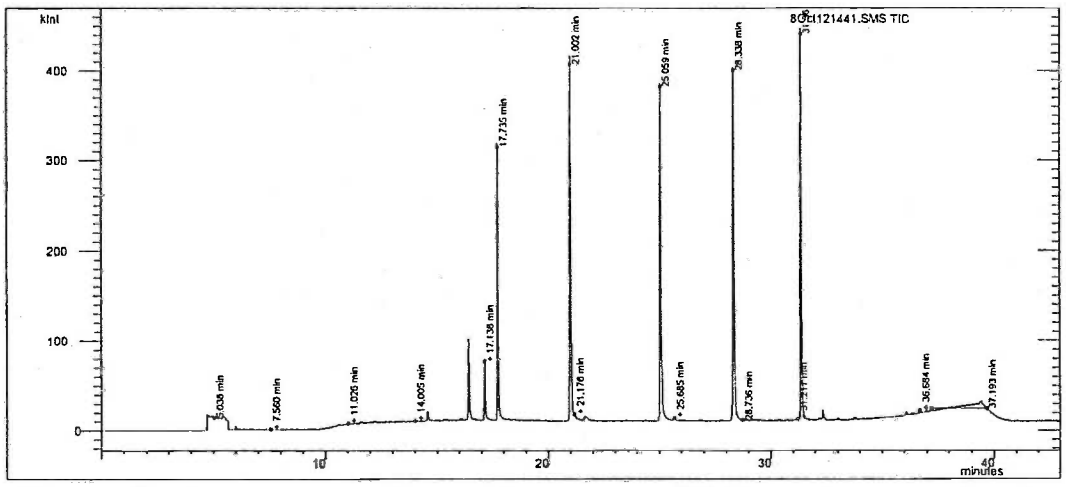
RT	Quan Ions	Compound Name	R.Match	Area	Amount	
13.028	53.0	Acrylonitrile	327		N/A	
13.472	55.9+41.0	n-Hexane	588		N/A	
14.035	63.0	1,1-Dichloroethane	929	827	0.074	
14.049	45.0	Isopropyl ether	566		N/A	
14.176	53.0	Chloroprene	458		N/A	
14.042	43.0	Vinyl acetate	945		N/A	
14.922	59.0	Ethyl-tert-butyl-ether	750	177	0.011	
15.328	77.0	2,2-Dichloropropane	561	345	0.042	
15.413	96.0	c-1,2-Dichloroethene	943	920	0.157	
15.464	43.0+72.0	2-Butanone (MEK)	245		N/A	
15.609	54.0+55.0	Propionitrile	192		N/A	
15.970	130.0+49.0	Bromochloromethane	817	325	0.047	
15.692	39.0+41.0+71.0	Tetrahydrofuran	294		N/A	
15.748	39.0+41.0+67.0	Methacrylonitrile	384		N/A	
16.102	83.0+85.0	Chloroform	992	34170	1.948	
16.414	97.0+99.0	1,1,1-Trichloroethane	829	1432	0.064	
16.448	111.0	Dibromofluoromethane (Surr1)	997	86316	~~23.349~~	
16.748	117.0+119.0	Carbon Tetrachloride	990	8149	0.427	
16.734	75.0	1,1-Dichloropropene	698		N/A	
17.016	41.0+39.0	Isobutyl alcohol	237		N/A	
17.160	65.0	1,2-Dichloroethane-d4 (Surr2)	996	93680	22.777	
17.215	78.0	Benzene	656	842	0.048	
17.333	62.0+64.0	1,2-Dichloroethane	555	785	0.096	
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	513		N/A	
18.469	130.0+132.0+95.0	Trichloroethene	999	690916	34.324	343.24
18.927	63.0+65.0	1,2-Dichloropropane	793		N/A	
18.939	41.0+39.0	Methyl methacrylate	516		N/A	
19.091	88.0	1,4-Dioxane	438		N/A	
19.281	93.0+174.0	Dibromomethane	919	259	0.050	
19.513	83.0+85.0	Bromodichloromethane	962		N/A	
20.682	63.0+43.0	2-Chloroethyl vinyl ether	575		N/A	
20.491	75.0+77.0+39.0	c-1,3-Dichloropropene	358	226	0.016	
20.679	43.0+58.0	4-Methyl-2-pentanone	163		N/A	
21.009	98.0	Toluene-d8 (Surr3)	989	619692	25.353	
21.186	92.0+91.0	Toluene	909	3320	0.055	
21.721	75.0+77.0	t-1,3-Dichloropropene	115		N/A	
21.740	69.0	Ethyl methacrylate	138		N/A	
22.248	97.0+99.0	1,1,2-Trichloroethane	925		N/A	
22.567	164.0+166.0	Tetrachloroethene	990	52072	21.468	214.68
22.704	76.0+41.0	1,3-Dichloropropane	597		N/A	
22.778	43.0+58.0+100.0	2-Hexanone	320		N/A	
23.402	129.0+127.0	Dibromochloromethane	649		N/A	
23.807	107.0+109.0	1,2-Dibromoethane	744		N/A	
24.895	91.0	1-Chlorohexane	485		N/A	
25.157	112.0+114.0	Chlorobenzene	551	542	0.016	
25.363	106.0+91.0	Ethylbenzene	906	1479	0.018	
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	687		N/A	
25.685	106.0+91.0	p,m-Xylenes	935	3077	0.038	
26.840	106.0+91.0	o-Xylene	886	1237	0.016	
26.860	104.0+78.0	Styrene	783		N/A	
27.543	171.0+173.0+175.0	Bromoform	507		N/A	

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.760	105.0+120.0	Isopropylbenzene	823		N/A
28.331	95.0	p-Bromofluorobenzene (Surr4)	990	310701	24.552
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	637		N/A
28.893	75.0+110.0	1,2,3-Trichloropropane	996	12685	2.940
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	155		N/A
28.891	77.0+158.0	Bromobenzene	758	2426	0.083
28.892	91.0+120.0	n-Propylbenzene	603		N/A
29.223	91.0+126.0	2-Chlorotoluene	866		N/A
29.353	105.0+120.0	1,3,5-Trimethylbenzene	899	1283	0.012
29.498	91.0+126.0	4-Chlorotoluene	918		N/A
30.193	119.0+91.0	tert-Butylbenzene	628		N/A
30.369	105.0+120.0	1,2,4-Trimethylbenzene	928	2462	0.026
30.364	117.0	Pentachloroethane	704		N/A
30.753	105.0+134.0	sec-Butylbenzene	885		N/A
31.117	119.0	4-Isopropyltoluene	875	1956	0.027
31.208	146.0+148.0	1,3-Dichlorobenzene	957	1690	0.040
31.423	146.0+148.0	1,4-Dichlorobenzene	438	1500	0.040
31.910	91.0	Benzyl Chloride	297		N/A
32.167	91.0+134.0	n-Butylbenzene	866	2074	0.025
32.381	146.0+148.0	1,2-Dichlorobenzene	850	1267	0.037
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	501		N/A
36.089	180.0+182.0	1,2,4-Trichlorobenzene	874	2223	0.084
36.340	225.0+226.0	Hexachlorobutadiene	947	826	0.050
36.677	128.0	Naphthalene	948	2715	0.194
37.188	180.0+182.0	1,2,3-Trichlorobenzene	975	1555	0.067

524 Volatile Organics

Associated Labs
GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121441.SMS	**Calc Method:**	C:\VarianWS\Methods\calculation method 2010\ms8_524_101112.mth
Sample Name:	312159-006_10ml-11	**Acquisition Date:**	10/16/2012 6:17:54 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)	997	572128	25.000
25.059	117.0	Chlorobenzene-d5(IS2)	992	474172	25.000
31.361	152.0	1,4-Dichlorobenzene-d4(IS3)	989	261459	25.000
5.038	85.0	Dichlorodifluoromethane	902	260	0.025
5.725	47.0+49.0+51.0	Chloromethane	612		N/A
6.134	62.0+64.0	Vinyl Chloride	829		N/A
7.443	94.0	Bromomethane	836	61	0.030
7.560	49.0+45.0	Chloroethane	477	57	0.090
8.773	101.0+103.0	Trichlorofluoromethane	934	537	0.027
9.904	59.0	Ethyl ether	793	40	0.018
10.581	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	880	364	0.024
10.626	61.0+96.0+98.0	1,1-Dichloroethene	983	1844	0.077
11.038	55.0+56.0	Acrolein	235		N/A
11.026	43.0+58.0	Acetone	604	2454	3.475
11.132	142.0	Iodomethane	959	441	0.034
11.287	76.0	Carbon disulfide	705	593	0.045
11.818	41.0+40.0	Acetonitrile	769		N/A
11.817	41.0+39.0	Allyl chloride	753		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	109		N/A
12.209	49.0	Methylene Chloride	762	1771	0.142
12.717	59.0	tert-Butanol	716	717	3.202
12.874	73.0	Methyl-tert-butyl-ether (MTBE)	798		N/A
12.902	61.0+96.0	t-1,2-Dichloroethene	800	1162	0.060

ALAB : 00158

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	604		N/A
13.472	55.9+41.0	n-Hexane	633		N/A
14.005	63.0	1,1-Dichloroethane	973	837	0.067
14.049	45.0	Isopropyl ether	654		N/A
14.176	53.0	Chloroprene	145		N/A
14.042	43.0	Vinyl acetate	805		N/A
14.885	59.0	Ethyl-tert-butyl-ether	491		N/A
15.306	77.0	2,2-Dichloropropane	504	348	0.038
15.395	96.0	c-1,2-Dichloroethene	852	979	0.149
15.464	43.0+72.0	2-Butanone (MEK)	457		N/A
15.609	54.0+55.0	Propionitrile	209		N/A
15.936	130.0+49.0	Bromochloromethane	882	503	0.065
15.692	39.0+41.0+71.0	Tetrahydrofuran	511		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	378		N/A
16.086	83.0+85.0	Chloroform	963	1637	0.084
16.385	97.0+99.0	1,1,1-Trichloroethane	695	552	0.022
16.425	111.0	Dibromofluoromethane (Surr1)	995	97347	23.558
16.727	117.0+119.0	Carbon Tetrachloride	710		N/A
16.734	75.0	1,1-Dichloropropene	855		N/A
17.016	41.0+39.0	Isobutyl alcohol	551		N/A
17.138	65.0	1,2-Dichloroethane-d4 (Surr2)	996	108972	23.704
17.194	78.0	Benzene	709	1487	0.075
17.318	62.0+64.0	1,2-Dichloroethane	518	807	0.088
17.300	73.0+55.0+87.0	tert-Amyl-methyl-ether	609		N/A
18.474	130.0+132.0+95.0	Trichloroethene	977	1590	0.071
18.927	63.0+65.0	1,2-Dichloropropane	678		N/A
18.944	41.0+39.0	Methyl methacrylate	514	1319	0.210
19.091	88.0	1,4-Dioxane	649		N/A
19.263	93.0+174.0	Dibromomethane	916	368	0.064
19.513	83.0+85.0	Bromodichloromethane	746		N/A
20.682	63.0+43.0	2-Chloroethyl vinyl ether	517		N/A
20.367	75.0+77.0+39.0	c-1,3-Dichloropropene	362	179	0.011
20.679	43.0+58.0	4-Methyl-2-pentanone	408		N/A
21.002	98.0	Toluene-d8 (Surr3)	997	695313	25.477
21.176	92.0+91.0	Toluene	961	7850	0.116
21.721	75.0+77.0	t-1,3-Dichloropropene	316		N/A
21.740	69.0	Ethyl methacrylate	236		N/A
22.248	97.0+99.0	1,1,2-Trichloroethane	780		N/A
22.543	164.0+166.0	Tetrachloroethene	959		N/A
22.704	76.0+41.0	1,3-Dichloropropane	603		N/A
22.778	43.0+58.0+100.0	2-Hexanone	359		N/A
23.402	129.0+127.0	Dibromochloromethane	470		N/A
23.807	107.0+109.0	1,2-Dibromoethane	788		N/A
24.895	91.0	1-Chlorohexane	372		N/A
25.150	112.0+114.0	Chlorobenzene	599	598	0.015
25.361	106.0+91.0	Ethylbenzene	902	2132	0.025
25.325	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	510		N/A
25.685	106.0+91.0	p,m-Xylenes	968	5938	0.069
26.843	106.0+91.0	o-Xylene	938	2227	0.027
26.860	104.0+78.0	Styrene	866		N/A
27.543	171.0+173.0+175.0	Bromoform	378		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.792	105.0+120.0	Isopropylbenzene	925	978	0.010
28.338	95.0	p-Bromofluorobenzene (Surr4)	982	339784	25.140
28.736	83.0+85.0	1,1,2,2-Tetrachloroethane	489		N/A
28.872	75.0+110.0	1,2,3-Trichloropropane	323		N/A
28.879	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	295		N/A
28.084	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	264		N/A
28.774	77.0+158.0	Bromobenzene	916		N/A
28.892	91.0+120.0	n-Propylbenzene	820		N/A
29.223	91.0+126.0	2-Chlorotoluene	902		N/A
29.364	105.0+120.0	1,3,5-Trimethylbenzene	861	1872	0.017
29.498	91.0+126.0	4-Chlorotoluene	926		N/A
30.223	119.0+91.0	tert-Butylbenzene	736	911	0.007
30.373	105.0+120.0	1,2,4-Trimethylbenzene	952	3934	0.039
30.364	117.0	Pentachloroethane	579		N/A
30.753	105.0+134.0	sec-Butylbenzene	908		N/A
31.128	119.0	4-Isopropyltoluene	837	2348	0.030
31.217	146.0+148.0	1,3-Dichlorobenzene	982	2488	0.056
31.429	146.0+148.0	1,4-Dichlorobenzene	511	2207	0.056
31.910	91.0	Benzyl Chloride	280		N/A
32.176	91.0+134.0	n-Butylbenzene	922	3572	0.041
32.386	146.0+148.0	1,2-Dichlorobenzene	866	1894	0.052
34.264	75.0+157.0	1,2-Dibromo-3-chloropropane	721		N/A
36.098	180.0+182.0	1,2,4-Trichlorobenzene	878	3640	0.128
36.348	225.0+226.0	Hexachlorobutadiene	969	1226	0.070
36.684	128.0	Naphthalene	995	4825	0.322
37.193	180.0+182.0	1,2,3-Trichlorobenzene	987	2906	0.117

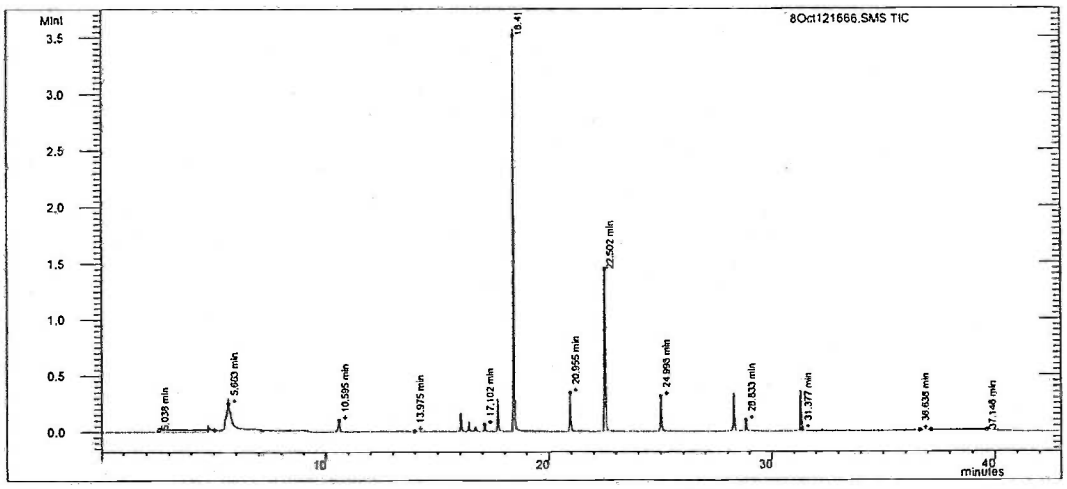
For 1,2,3-TCP ONLY

524 Volatile Organics

Associated Labs

GCMS#8

Data File Name:	c:\VarianWS\data\8Oct12\8Oct121666.SMS	Calc Method:	C:\VarianWS\Methods\calculation method 2010\ms8_524_102312.mth
Sample Name:	312159-007_10ml-1	Acquisition Date:	10/25/2012 7:43:04 AM
Inj. Notes:	PH<2	Operator Name:	LZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
17.699	96.0+70.0	Fluorobenzene (IS1)	997	533566	25.000
24.998	117.0	Chlorobenzene-d5(IS2)	991	422019	25.000
31.306	152.0	1,4-Dichlorobenzene-d4(IS3)	992	206176	25.000
5.038	85.0	Dichlorodifluoromethane	884	349	0.038
5.663	47.0+49.0+51.0	Chloromethane	469	20829	8.411
6.076	62.0+64.0	Vinyl Chloride	865		N/A
7.362	94.0	Bromomethane	298		N/A
7.603	49.0+45.0	Chloroethane	393	99	0.162
8.742	101.0+103.0	Trichlorofluoromethane	947	2990	0.140
9.873	59.0	Ethyl ether	790	11	0.005
10.550	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	995	74836	4.851
10.595	61.0+96.0+98.0	1,1-Dichloroethene	997	218122	9.847
11.038	55.0+56.0	Acrolein	282		N/A
10.998	43.0+58.0	Acetone	816	752	1.302
11.111	142.0	Iodomethane	948	93	0.007
11.256	76.0	Carbon disulfide	743	2104	0.186
11.820	41.0+40.0	Acetonitrile	304	252	0.024
11.741	41.0+39.0	Allyl chloride	603		N/A
11.794	45.0	Isopropyl alcohol (2-Propanol)	402		N/A
12.184	49.0	Methylene Chloride	924	1093	0.111
12.639	59.0	tert-Butanol	616		N/A
12.840	73.0	Methyl-tert-butyl-ether (MTBE)	935	339	0.052
12.876	61.0+96.0	t-1,2-Dichloroethene	903	388	0.023

ALAB : 00159

RT	Quan Ions	Compound Name	R.Match	Area	Amount
12.970	53.0	Acrylonitrile	649		N/A
13.406	55.9+41.0	n-Hexane	817		N/A
13.975	63.0	1,1-Dichloroethane	987	1236	0.113
14.001	45.0	Isopropyl ether	760		N/A
14.123	53.0	Chloroprene	320		N/A
13.993	43.0	Vinyl acetate	869		N/A
14.828	59.0	Ethyl-tert-butyl-ether	661		N/A
15.269	77.0+39.0+41.0	2,2-Dichloropropane	581		N/A
15.362	96.0	c-1,2-Dichloroethene	944	442	0.076
15.439	43.0+72.0	2-Butanone (MEK)	611		N/A
15.575	54.0+55.0	Propionitrile	546		N/A
16.040	130.0+49.0	Bromochloromethane	347	17324	2.704
15.692	39.0+41.0+71.0	Tetrahydrofuran	592		N/A
15.748	39.0+41.0+67.0	Methacrylonitrile	581		N/A
16.040	83.0+85.0	Chloroform	981	344898	20.546
16.355	97.0+99.0	1,1,1-Trichloroethane	985	6749	0.272
16.392	111.0	Dibromofluoromethane (Surr1)	995	90914	25.531
16.690	117.0+119.0	Carbon Tetrachloride	995	84139	4.141
16.689	75.0	1,1-Dichloropropene	288		N/A
17.016	41.0+39.0	Isobutyl alcohol	503		N/A
17.102	65.0	1,2-Dichloroethane-d4 (Surr2)	997	102120	27.609
17.166	78.0	Benzene	709	904	0.052
17.275	62.0+64.0	1,2-Dichloroethane	668	970	0.127
17.272	73.0+55.0+87.0	tert-Amyl-methyl-ether	704		N/A
18.413	130.0+132.0+95.0	Trichloroethene	999	7.350E6	349.037
18.919	63.0+65.0	1,2-Dichloropropane	931	346	0.067
18.916	41.0+39.0	Methyl methacrylate	638	773	0.156
19.091	88.0	1,4-Dioxane	519		N/A
19.199	93.0+174.0	Dibromomethane	642		N/A
19.490	83.0+85.0	Bromodichloromethane	995	2785	0.253
20.660	63.0+43.0	2-Chloroethyl vinyl ether	657		N/A
20.383	75.0+77.0+39.0	c-1,3-Dichloropropene	712		N/A
20.659	43.0+58.0	4-Methyl-2-pentanone	542		N/A
20.955	98.0	Toluene-d8 (Surr3)	996	610876	25.176
21.123	92.0+91.0	Toluene	948	2036	0.034
21.705	75.0+77.0	t-1,3-Dichloropropene	561		N/A
21.724	69.0	Ethyl methacrylate	569		N/A
22.204	97.0+99.0	1,1,2-Trichloroethane	990	2810	0.515
22.502	164.0+166.0	Tetrachloroethene	992	476619	209.335
22.672	76.0+41.0	1,3-Dichloropropane	95		N/A
22.758	43.0+58.0+100.0	2-Hexanone	48		N/A
23.382	129.0+127.0	Dibromochloromethane	880		N/A
23.773	107.0+109.0	1,2-Dibromoethane	669		N/A
24.895	91.0	1-Chlorohexane	355		N/A
25.088	112.0+114.0	Chlorobenzene	751	1327	0.040
25.296	106.0+91.0	Ethylbenzene	929		N/A
25.290	131.0+117.0+133.0	1,1,1,2-Tetrachloroethane	750	834	0.051
25.619	106.0+91.0	p,m-Xylenes	976		N/A
26.771	106.0+91.0	o-Xylene	946		N/A
26.832	104.0+78.0	Styrene	664		N/A
27.522	171.0+173.0+175.0	Bromoform	799		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.736	105.0+120.0	Isopropylbenzene	902		N/A
28.278	95.0	p-Bromofluorobenzene (Surr4)	986	287087	25.894
28.836	83.0+85.0	1,1,2,2-Tetrachloroethane	436	3456	0.783
28.833	75.0+110.0	1,2,3-Trichloropropane	995	110197	36.653
28.851	88.0+89.0+53.0	trans-1,4-Dichloro-2-butene	315		N/A
28.054	75.0+88.0+53.0	cis-1,4-Dichloro-2-butene	387		N/A
28.830	77.0+158.0	Bromobenzene	835	24861	1.089
28.860	91.0+120.0	n-Propylbenzene	487		N/A
29.197	91.0+126.0	2-Chlorotoluene	884		N/A
29.303	105.0+120.0	1,3,5-Trimethylbenzene	871	814	0.010
29.485	91.0+126.0	4-Chlorotoluene	936		N/A
30.175	119.0+91.0	tert-Butylbenzene	686		N/A
30.325	105.0+120.0	1,2,4-Trimethylbenzene	973	1585	0.022
30.334	117.0	Pentachloroethane	668		N/A
30.737	105.0+134.0	sec-Butylbenzene	890		N/A
31.076	119.0	4-Isopropyltoluene	879	1140	0.019
31.161	146.0+148.0	1,3-Dichlorobenzene	941	1061	0.032
31.377	146.0+148.0	1,4-Dichlorobenzene	445	1383	0.048
31.910	91.0	Benzyl Chloride	683		N/A
32.125	91.0+134.0	n-Butylbenzene	936	1457	0.023
32.333	146.0+148.0	1,2-Dichlorobenzene	909	1109	0.043
34.242	75.0+157.0	1,2-Dibromo-3-chloropropane	622		N/A
36.048	180.0+182.0	1,2,4-Trichlorobenzene	862	1446	0.075
36.292	225.0+226.0	Hexachlorobutadiene	962	725	0.051
36.638	128.0	Naphthalene	987	1299	0.126
37.146	180.0+182.0	1,2,3-Trichlorobenzene	972	1088	0.064

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							

ALAB: 69192

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-00001783

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 : 00163

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 : 00166

	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.

ALAB : 00157

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

ALAB : 00168

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

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	

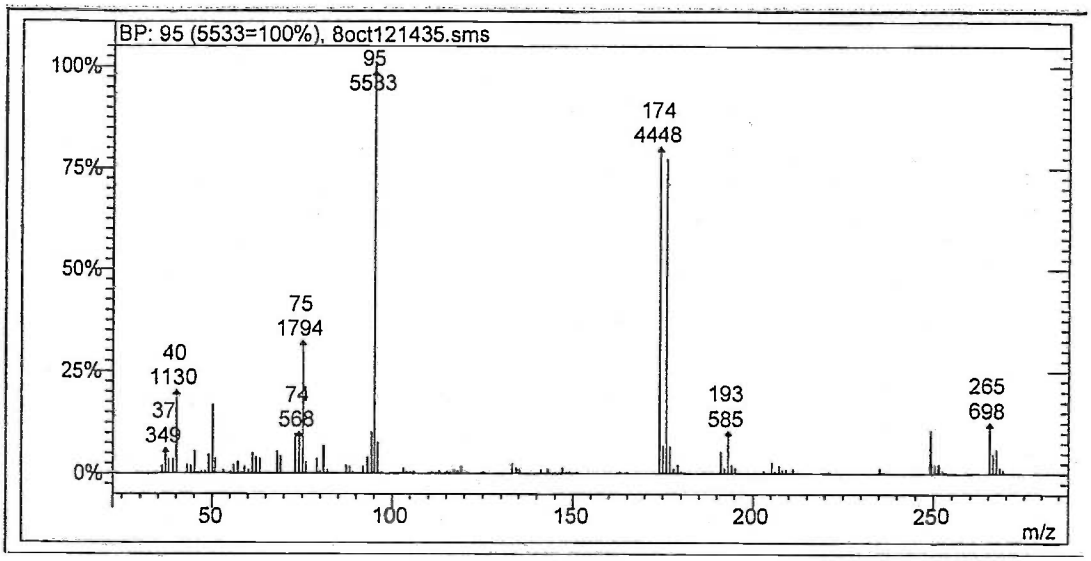
		QC Limits
S 1	= Dibromofluoromethane (Surr1)	(70 - 135)
S 2	= 1,2-Dichloroethane-d4 (Surr2)	(70 - 135)
S 3	= Toluene-d8 (Surr3)	(70 - 135)
S 4	= p-Bromofluorobenzene (Surr4)	(70 - 135)

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

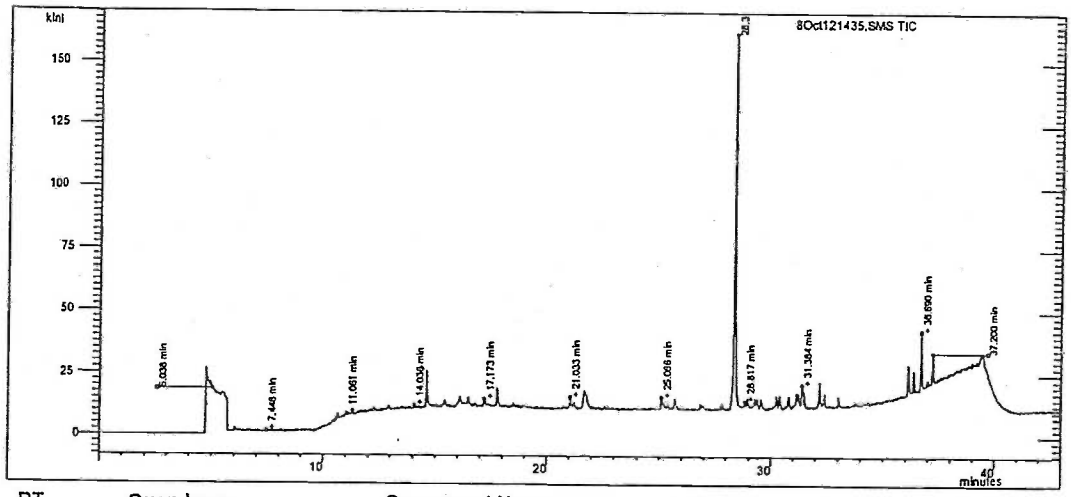
Injection Time: 13:41

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

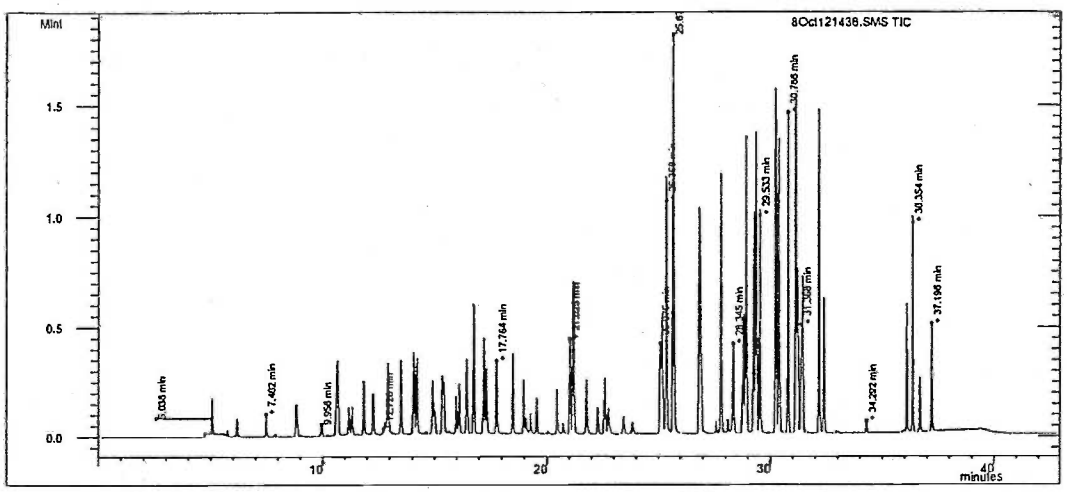
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	436		N/A
13.472	55.9+41.0	n-Hexane	820		N/A
14.036	63.0	1,1-Dichloroethane	973	1381	4.891
14.080	45.0	Isopropyl ether	808	456	1.102
14.176	53.0	Chloroprene	678		N/A
14.042	43.0	Vinyl acetate	864		N/A
14.918	59.0	Ethyl-tert-butyl-ether	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
Sample Name:	25ppb 524.2 ccv 1	Acquisition Date:	10/16/2012 2:27:31 PM
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

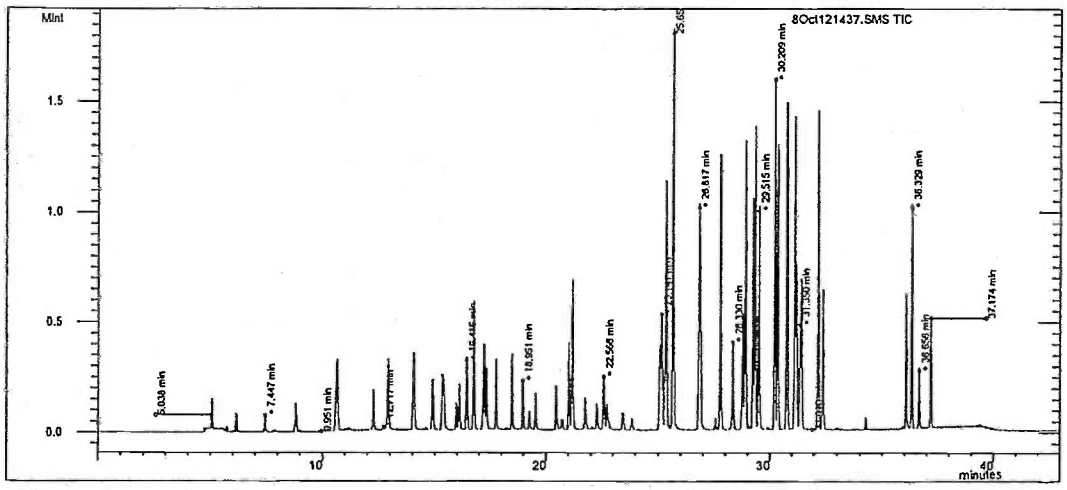
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.063	53.0	Acrylonitrile	987	9604	24.656
13.496	55.9+41.0	n-Hexane	994	565487	24.096
14.041	63.0	1,1-Dichloroethane	998	304472	22.692
14.074	45.0	Isopropyl ether	941	444555	22.582
14.209	53.0	Chloroprene	948	334082	22.205
14.042	43.0	Vinyl acetate	722		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

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

ALAB : 00184

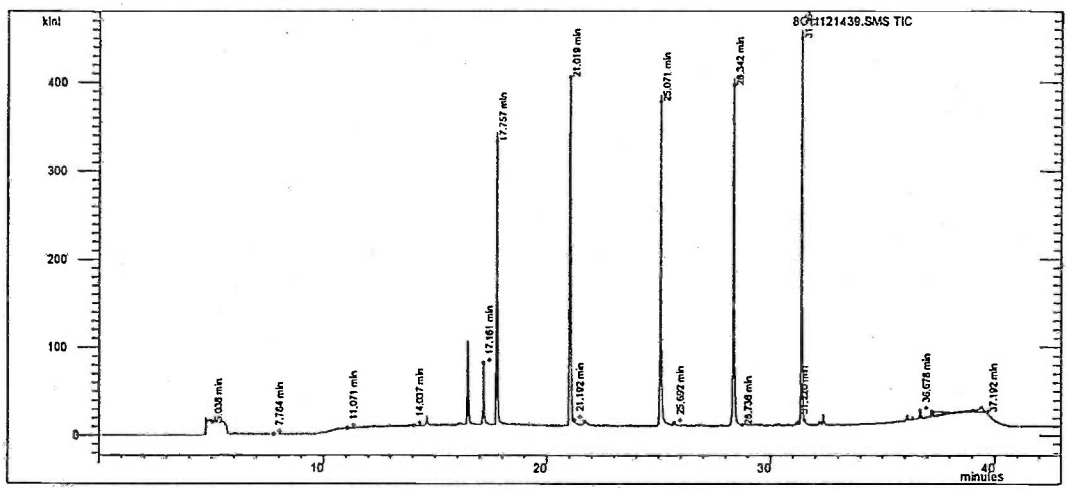
RT	Quan Ions	Compound Name	R.Match	Area	Amount
27.781	105.0+120.0	Isopropylbenzene	986	2.502E6	26.584
28.330	95.0	p-Bromofluorobenzene (Surr4)	988	342990	25.507
28.737	83.0+85.0	1,1,2,2-Tetrachloroethane	994	139329	21.525
28.880	75.0+110.0	1,2,3-Trichloropropane	881	85687	18.735
28.879	88.0+89.0+53.0	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

ALAB : 00185

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

ALAB : 99186

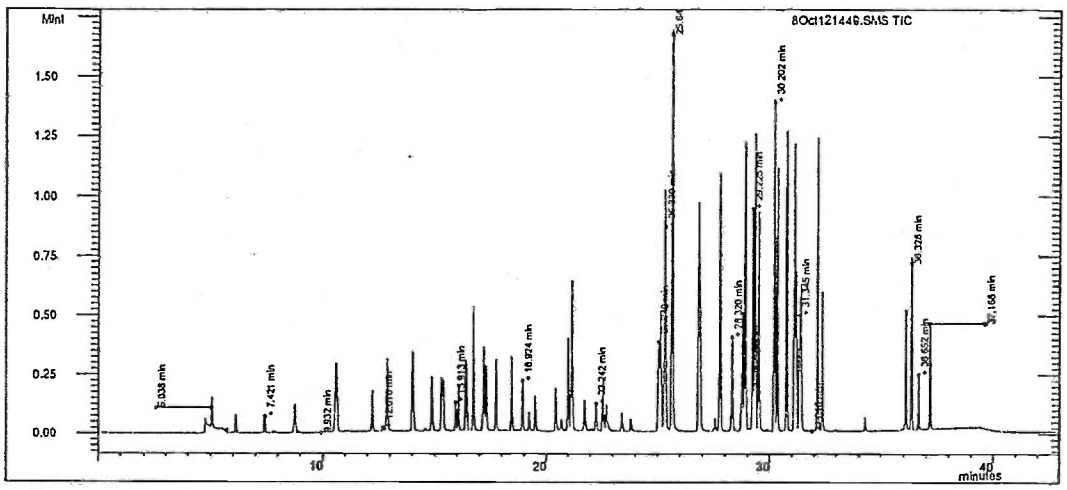
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.129	53.0	Acrylonitrile	436	45	0.120
13.472	55.9+41.0	n-Hexane	606		N/A
14.037	63.0	1,1-Dichloroethane	962	930	0.072
14.049	45.0	Isopropyl ether	592		N/A
14.176	53.0	Chloroprene	441		N/A
14.042	43.0	Vinyl acetate	877		N/A
14.917	59.0	Ethyl-tert-butyl-ether	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 : 00183

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
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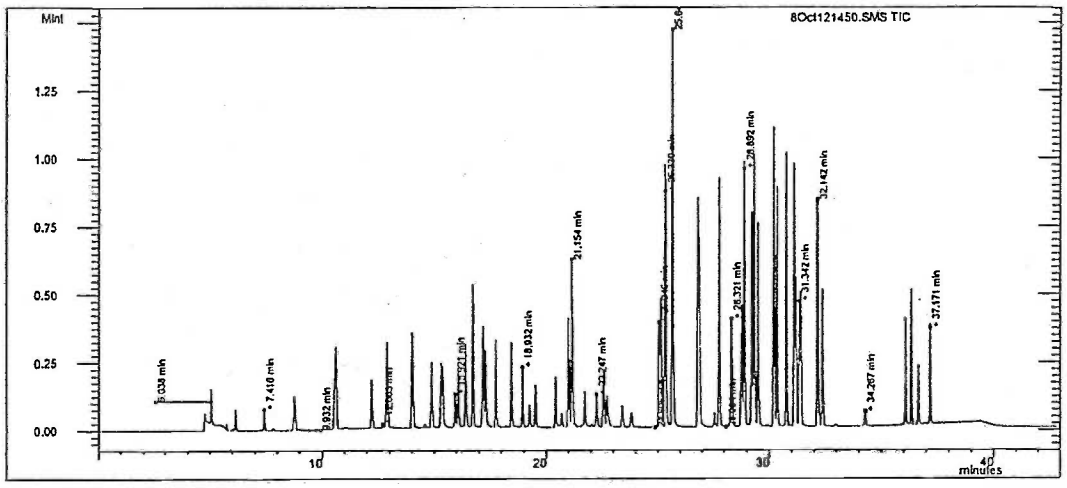
Inj. Notes:	W#12090604	Operator Name:	LZ



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

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
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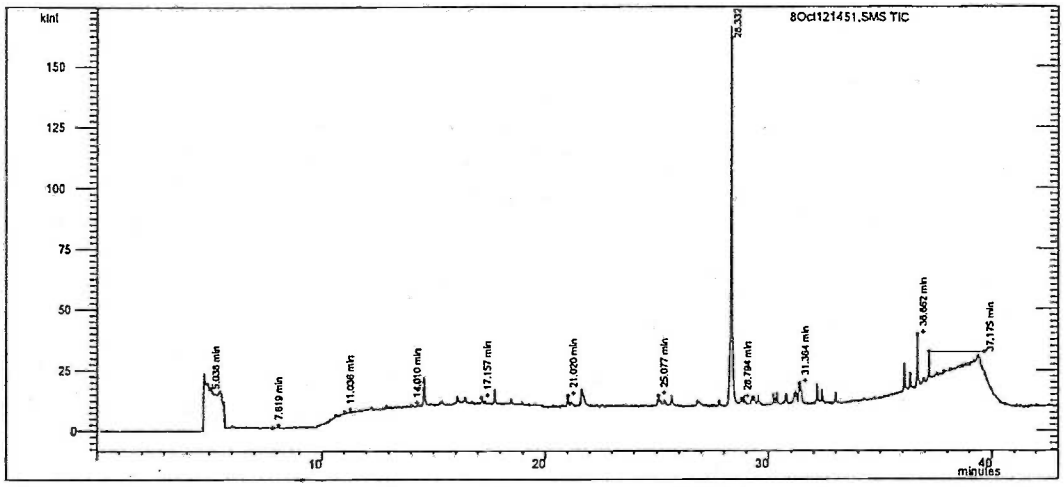
Inj. Notes:	W#12062101	Operator Name:	LZ



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

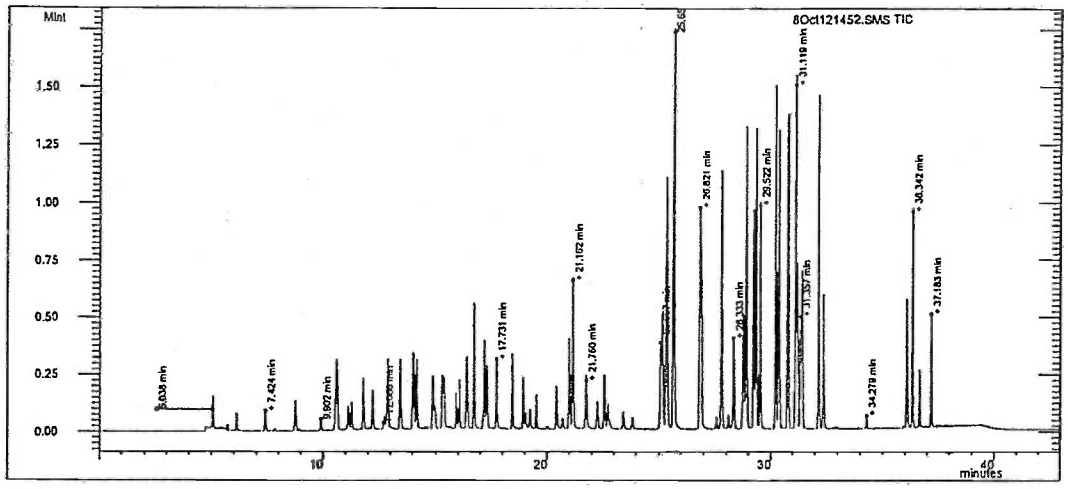
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.028	53.0	Acrylonitrile	443		N/A
13.472	55.9+41.0	n-Hexane	590		N/A
14.010	63.0	1,1-Dichloroethane	960	997	4.329
14.049	45.0	Isopropyl ether	824	429	1.270
14.176	53.0	Chloroprene	541		N/A
14.042	43.0	Vinyl acetate	634		N/A
14.892	59.0	Ethyl-tert-butyl-ether	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 : 80198

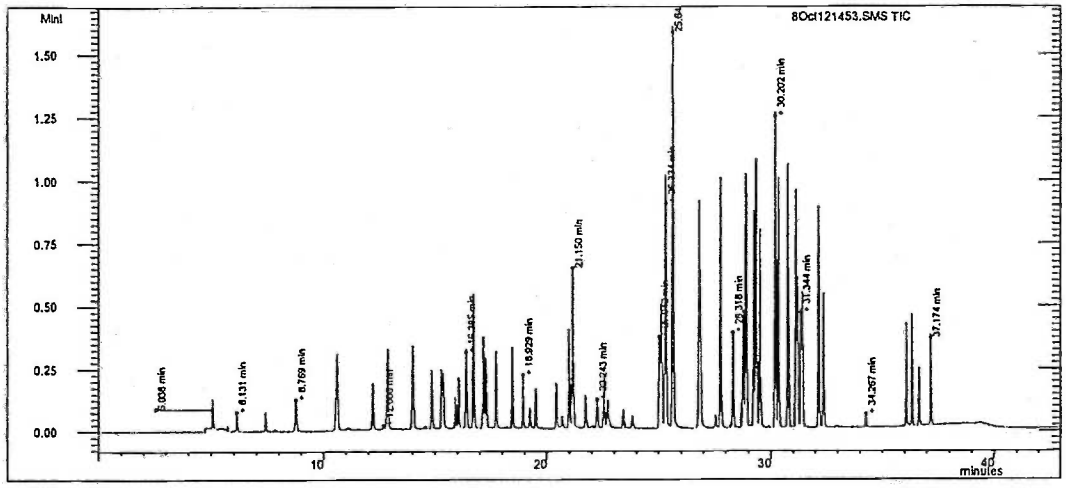
RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.015	53.0	Acrylonitrile	988	8837	24.422
13.446	55.9+41.0	n-Hexane	994	526486	24.148
13.994	63.0	1,1-Dichloroethane	992	279421	22.417
14.030	45.0	Isopropyl ether	936	419792	22.954
14.164	53.0	Chloroprene	949	317142	22.690
14.042	43.0	Vinyl acetate	728		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

ALAB : 00201

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

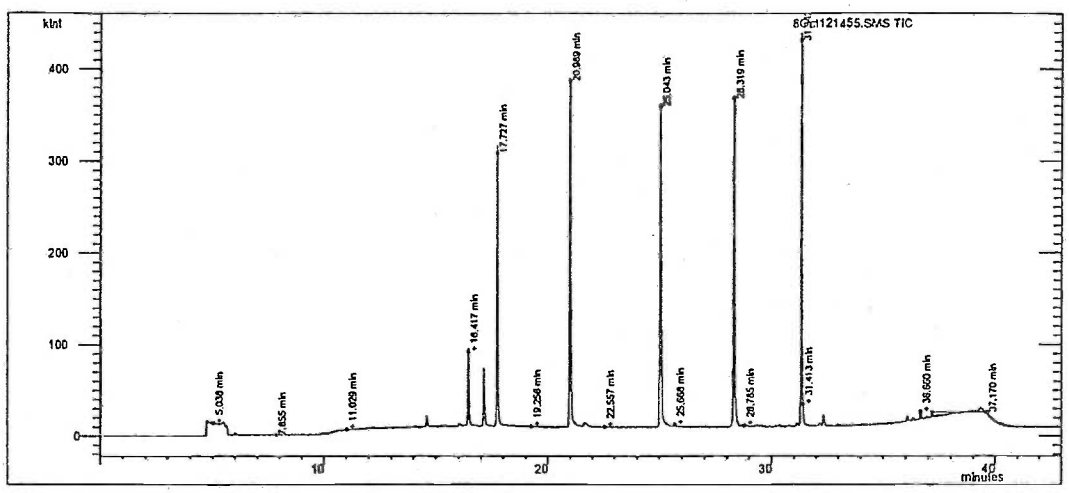
ALAB : 00202

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

ALAB : 00204

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

524 Volatile Organics

Associated Labs
GCMS#8

Verm

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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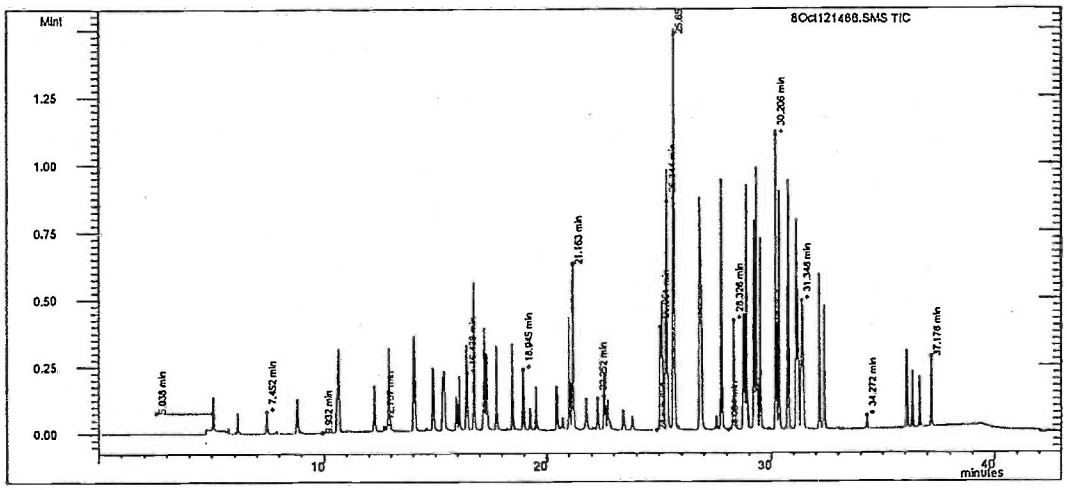
Inj. Notes:	W#12090604	Operator Name:	LZ



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 : 00287

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
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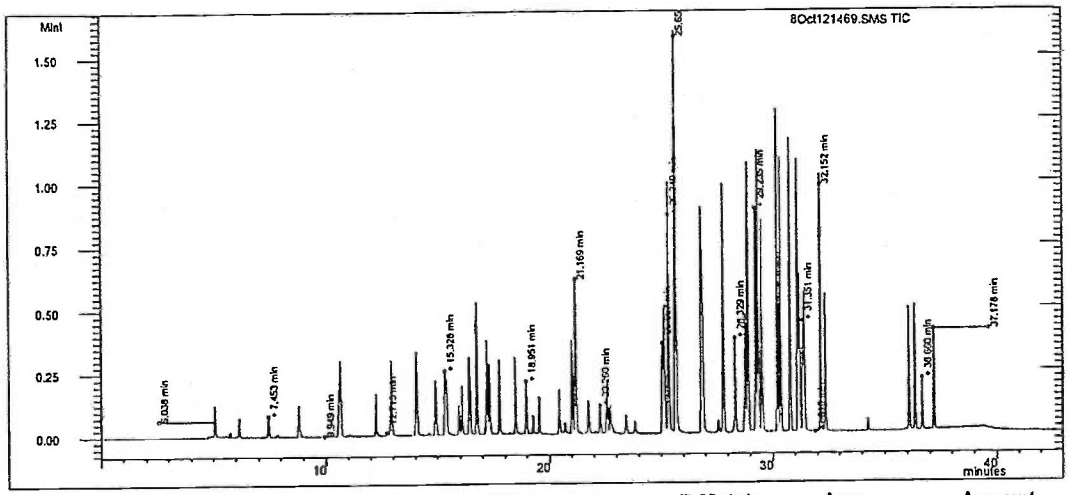
Inj. Notes:	W#12090604	Operator Name:	LZ



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 : 88218

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 : 00211

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	133682	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

****

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

RecalcList: C:\VarianWS\8260list.rc1

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

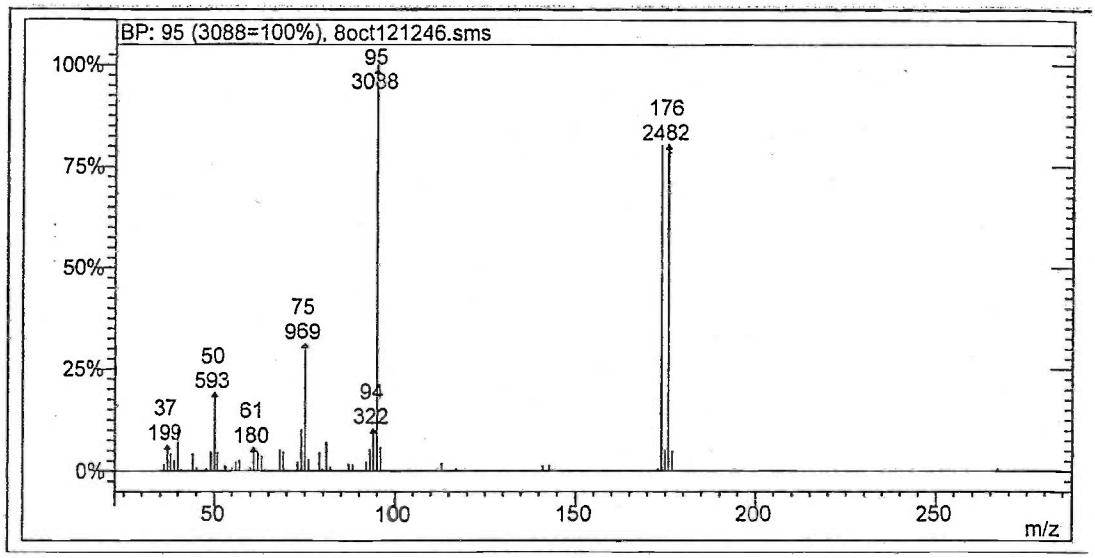
	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	467355	17.74	402364	25.04	215704	31.34						
UPPER LIMIT	934710	18.24	804728	25.54	431408	31.84						
LOWER LIMIT	233678	17.24	201182	24.54	107852	30.84						
EPA SAMPLE NO												
8Oct121249	487519	17.74	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

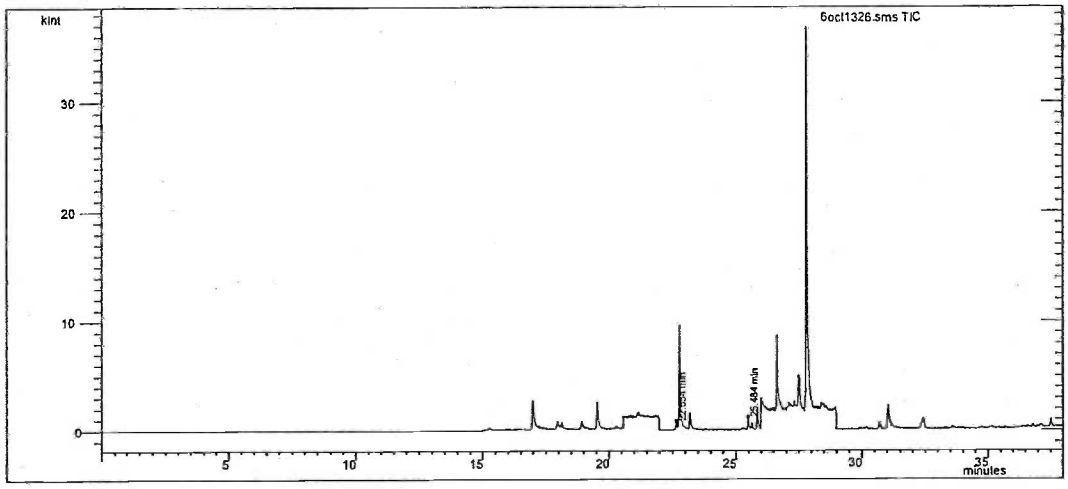
Injection Time: 12:05

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\6oct1326.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	312159-006-8 5ml	**Acquisition Date:**	10/29/2012 3:12:35 PM
Inj. Notes:	EB pH<2	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.484	117.0+82.0	Chlorobenzene-d5(IS2)	999	2971	1.000
22.654	98.0+70.0	Toluene-d8 (Surr 3)	971	1612	1.423

ALAB : 00228

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130967

Created Date:	10/30/2012
Created By:	akk
Matrix:	Water

Test:	8260M MS/MS
Method:	EPA 8260M
Instrument:	VOA-MS (group)
AnalysisDate:	10/30/2012
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	312080-013	B-1-CW12	312080-013							
4	312159-006	EB101512 Equip Blank	312159-006							
5	312205-006	B-6-CW16	312205-006							
6	312205-007	EB101612 Equip Blank	312205-007							

InitialCalibSTD:	
CalibCheckSTD:	
InternalSTD:	w#12101901
SurrogateSTD:	w#12101901
LCSSTD:	
MSSTD:	

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

ALAB 0822

****

Varian Star Workstation - RecalcList Tue Oct 30 08:40:43 2012

RecalcList: C:\VarianWS\8260LIST.RCL

Created: Thu Sep 10 08:16:26 2009
Modified: Tue Oct 30 08:40:39 2012

****

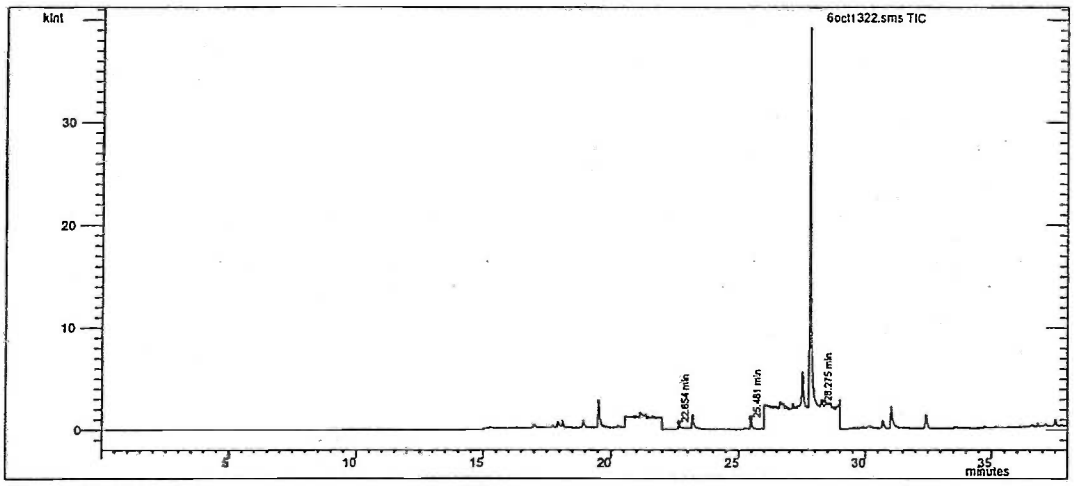
Line	Sample Name	Data File	Recalc Notes
1	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1322.SMS	none
2	0.02ppb tcp lcs	c:\varianws\data\6oct12\6Oct1323.SMS	none
3	0.02ppb tcp lcsd	c:\varianws\data\6oct12\6Oct1324.SMS	none
4	method blank	c:\varianws\data\6oct12\6Oct1325.SMS	none
5	312159-006-8 5ml	c:\varianws\data\6oct12\6Oct1326.SMS	below
	Notes pH<2		
6	312205-007-6 5ml	c:\varianws\data\6oct12\6Oct1327.SMS	below
	Notes pH<2		
7	312080-013-13 5ml	c:\varianws\data\6oct12\6Oct1328.SMS	below
	Notes pH<2		
8	312205-006-6 5ml	c:\varianws\data\6oct12\6Oct1329.SMS	below
	Notes pH<2		

ALAB : 00222

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1322.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/29/2012 10:24:42 AM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP

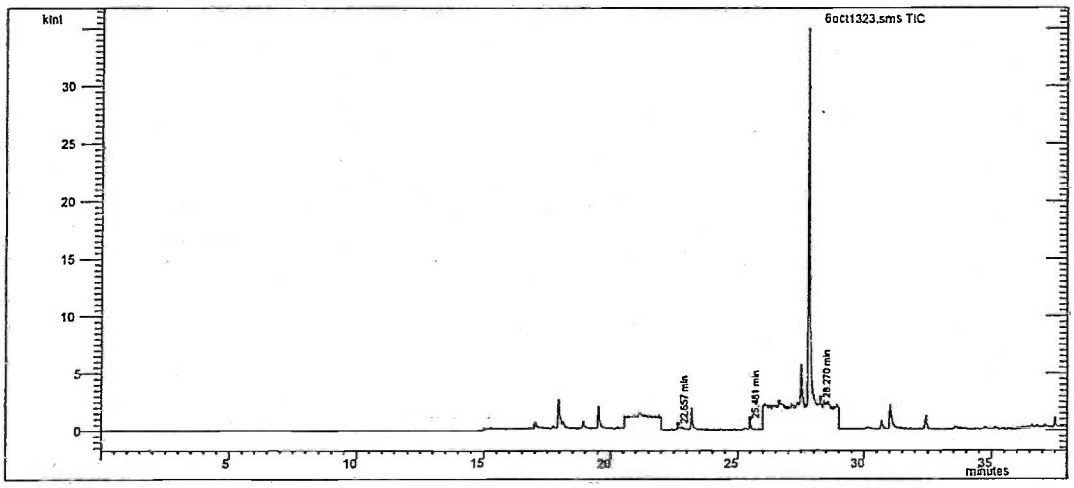


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.481	117.0+82.0	Chlorobenzene-d5(IS2)	999	2916	1.000
28.275	75.0	1,2,3 - TCP	1000	2481	0.016
22.654	98.0+70.0	Toluene-d8 (Surr 3)	971	1428	1.284

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1323.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcs	**Acquisition Date:**	10/29/2012 11:27:19 AM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



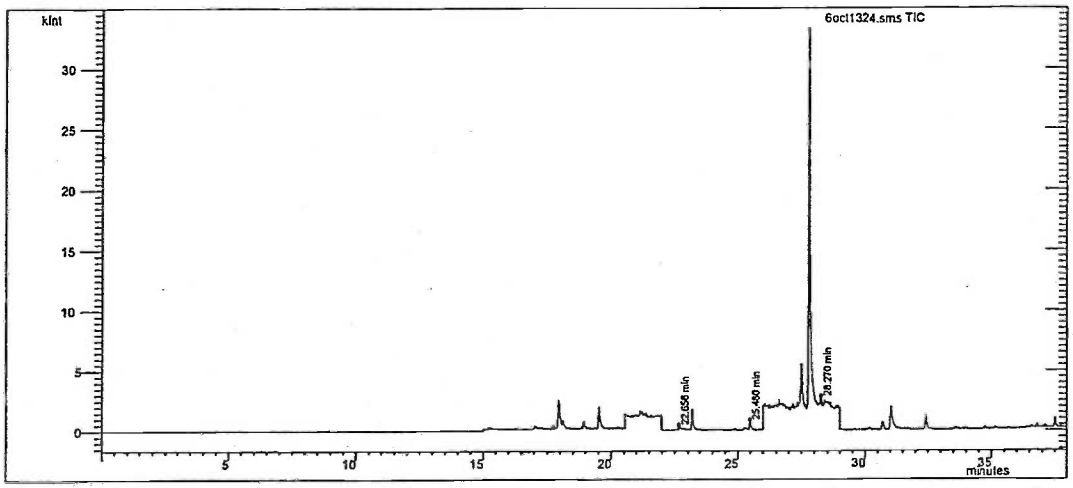
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.481	117.0+82.0	Chlorobenzene-d5(IS2)	999	2377	1.000
28.270	75.0	1,2,3 - TCP	1000	2167	0.017
22.657	98.0+70.0	Toluene-d8 (Surr 3)	972	1154	1.273

ALAB : 00224

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1324.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp lcsd	**Acquisition Date:**	10/29/2012 12:28:42 PM
Inj. Notes:	w#12100902	**Operator Name:**	RyanP



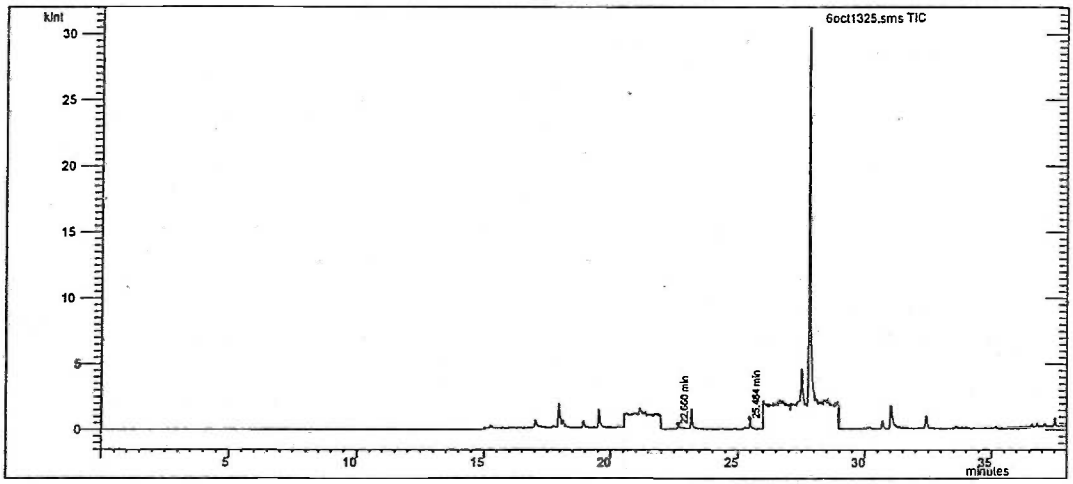
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.480	117.0+82.0	Chlorobenzene-d5(IS2)	998	2385	1.000
28.270	75.0	1,2,3 - TCP	1000	2473	0.019
22.656	98.0+70.0	Toluene-d8 (Surr 3)	996	944	1.039

ALAB : 00225

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6oct1325.sms	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	method blank	**Acquisition Date:**	10/29/2012 1:31:47 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	2077	1.000
22.660	98.0+70.0	Toluene-d8 (Surr 3)	970	829	1.047

ALAB : 08226

****

Varian Star Workstation - RecalcList Tue Oct 23 08:54:41 2012

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

Created: Tue Sep 11 16:52:55 2012
Modified: Tue Oct 23 08:34:46 2012

****

TCP_Q_102212

Line	Sample Name	Data File	Recalc Notes
1	rinse	c:\varianws\data\6oct12\6Oct1263.SMS	none
2	0.005ppb tcp ic	c:\varianws\data\6oct12\6Oct1264.SMS	none
3	0.01ppb tcp ic	c:\varianws\data\6oct12\6Oct1265.SMS	none
4	0.02ppb tcp ic	c:\varianws\data\6oct12\6Oct1266.SMS	none
5	0.05ppb tcp ic	c:\varianws\data\6oct12\6Oct1267.SMS	none
6	0.1ppb tcp ic	c:\varianws\data\6oct12\6Oct1268.SMS	none
7	rinse	c:\varianws\data\6oct12\6Oct1269.SMS	none
8	rinse	c:\varianws\data\6oct12\6Oct1270.SMS	none
9	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1271.SMS	none

ALAB : 00227

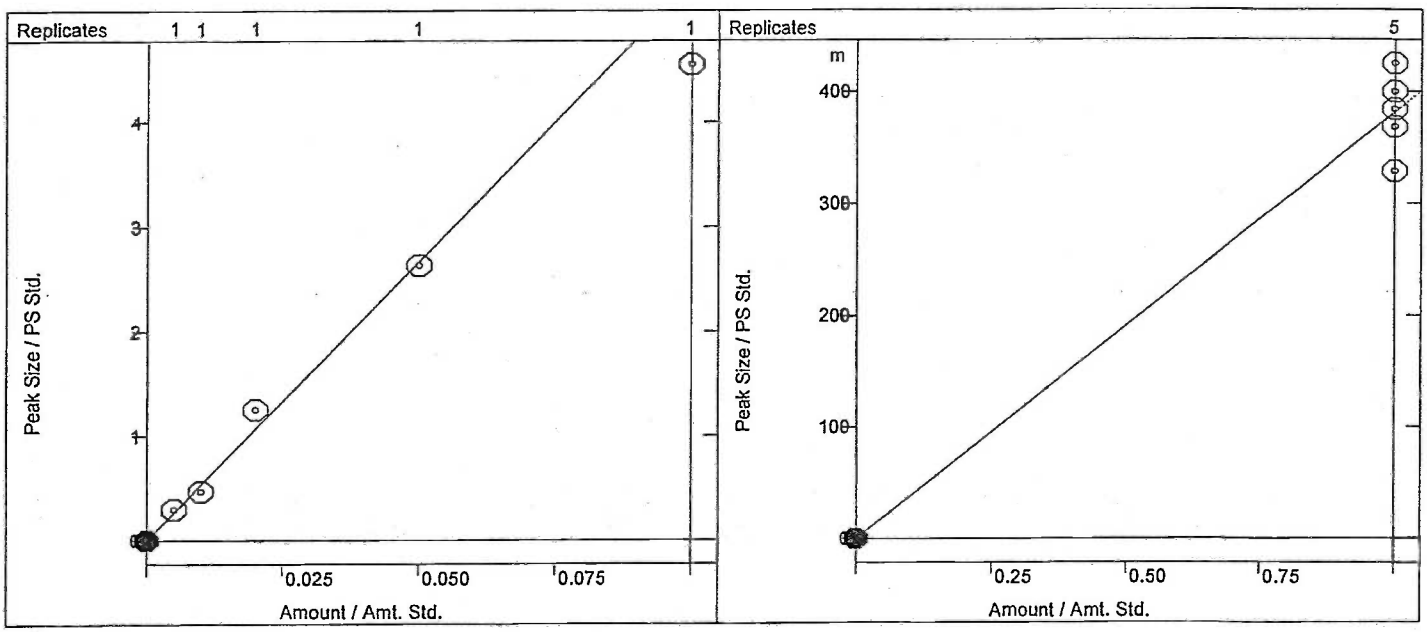
Print Date: 23 Oct 2012 09:45:38

Calibration Curves Report

Method:	c:\varianws\methods\tcp-q_102212.mth		
Recalc Method:	...p-q_102212.mth	Last Calibration:	10/23/2012 9:40 AM
Sample List:	N/A	Cmpd. Table Updated:	10/23/2012 9:42 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2,3 - TCP
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 14.10%, Coeff. Det.(r2): 0.990412
y = +53.3889x

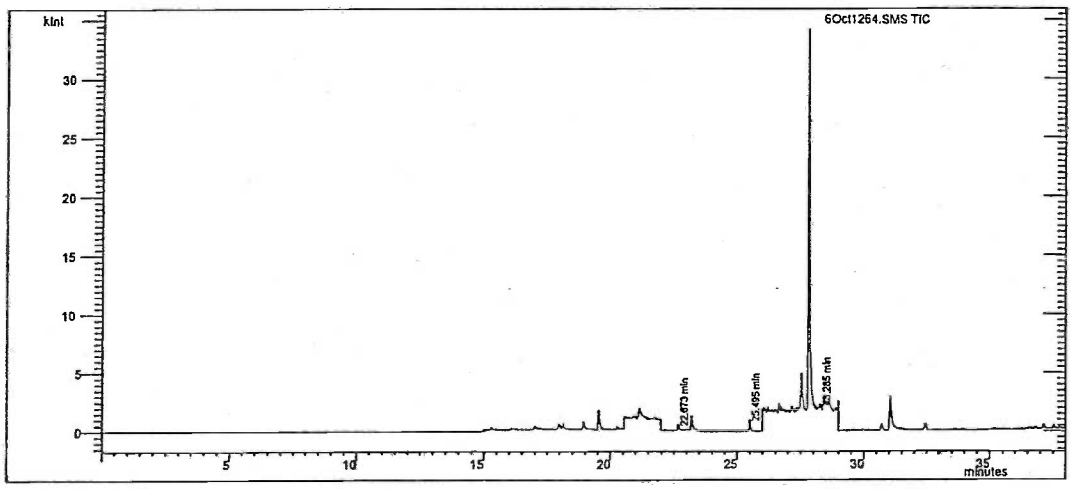
Toluene-d8 (Surr 3)
Curve Fit: Linear, Origin: Include (Ignore), Weight: 1/nX2
Resp. Fact. RSD: 9.450%, Coeff. Det.(r2): 0.958893
y = +0.3813x +1.1102e-16



8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1264.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.005ppb tcp ic	**Acquisition Date:**	10/22/2012 2:00:44 PM
Inj. Notes:		**Operator Name:**	RyanP



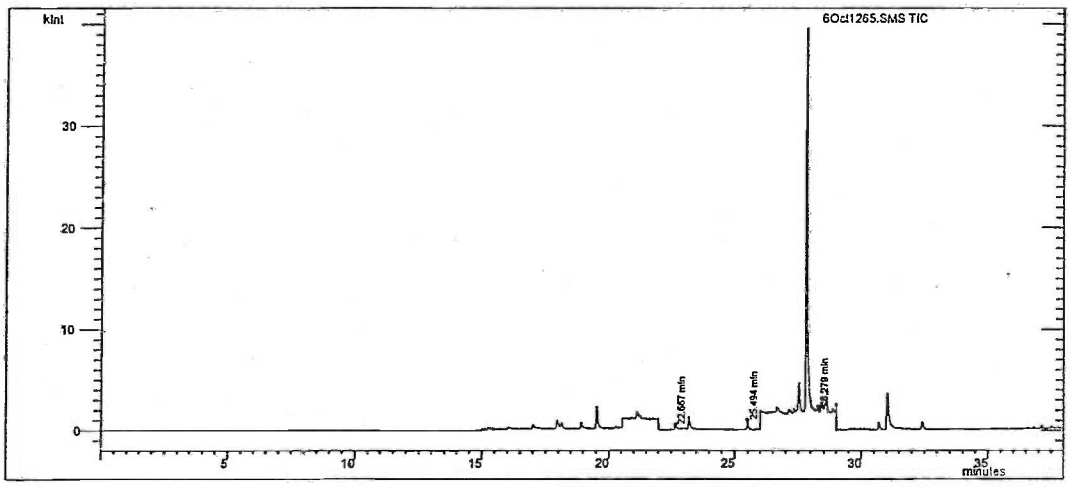
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2092	1.000
28.285	75.0	1,2,3 - TCP	1000	621	0.006
22.673	98.0+70.0	Toluene-d8 (Surr 3)	919	688	0.862

ALAB : 00229

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1265.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.01ppb tcp ic	**Acquisition Date:**	10/22/2012 3:00:07 PM
Inj. Notes:		**Operator Name:**	RyanP



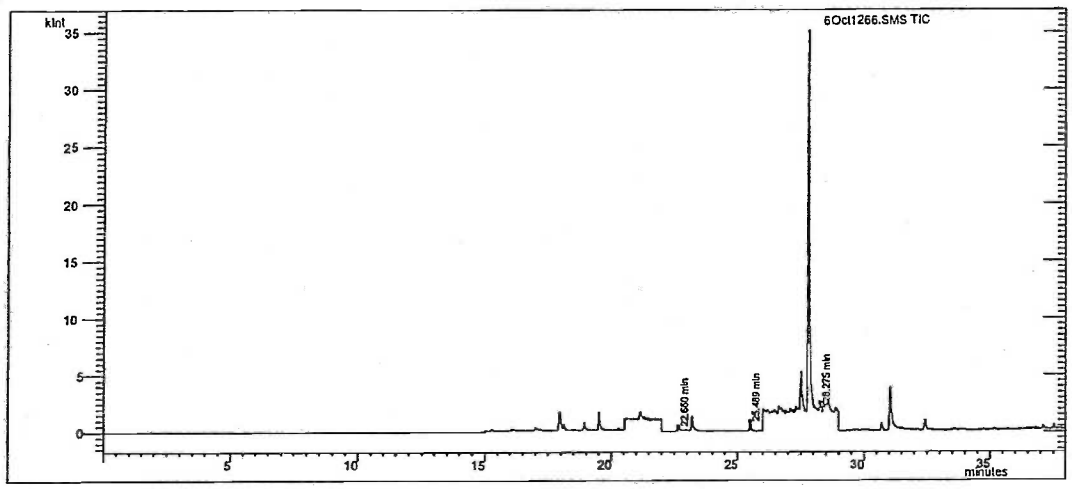
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.494	117.0+82.0	Chlorobenzene-d5(IS2)	999	2434	1.000
28.279	75.0	1,2,3 - TCP	1000	1139	0.009
22.667	98.0+70.0	Toluene-d8 (Surr 3)	944	1035	1.115

ALAB : 60230

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1266.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ic	**Acquisition Date:**	10/22/2012 4:03:26 PM
Inj. Notes:		**Operator Name:**	RyanP

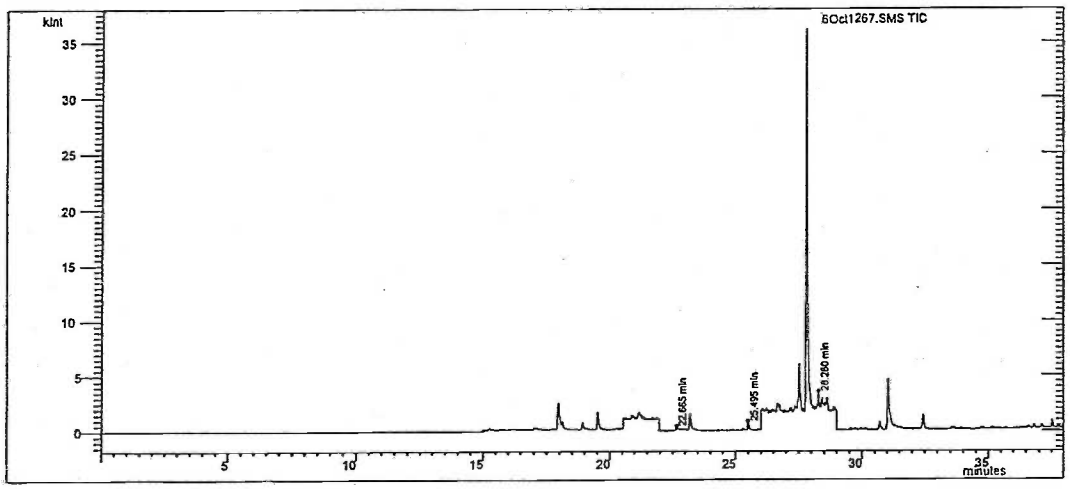


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(IS2)	998	2205	1.000
28.275	75.0	1,2,3 - TCP	1000	2760	0.023
22.660	98.0+70.0	Toluene-d8 (Surr 3)	955	812	0.966

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1267.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.05ppb tcp ic	**Acquisition Date:**	10/22/2012 5:05:50 PM
Inj. Notes:		**Operator Name:**	RyanP



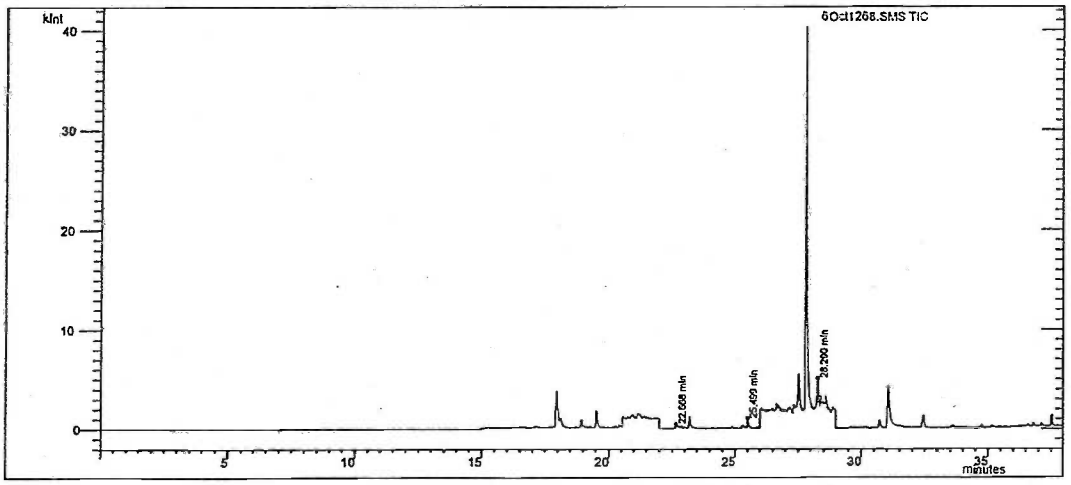
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	998	2183	1.000
28.280	75.0	1,2,3 - TCP	1000	5548	0.048
22.665	98.0+70.0	Toluene-d8 (Surr 3)	892	873	1.049

ALAB : 00232

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1268.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.1ppb tcp ic	**Acquisition Date:**	10/22/2012 6:11:48 PM
Inj. Notes:		**Operator Name:**	RyanP

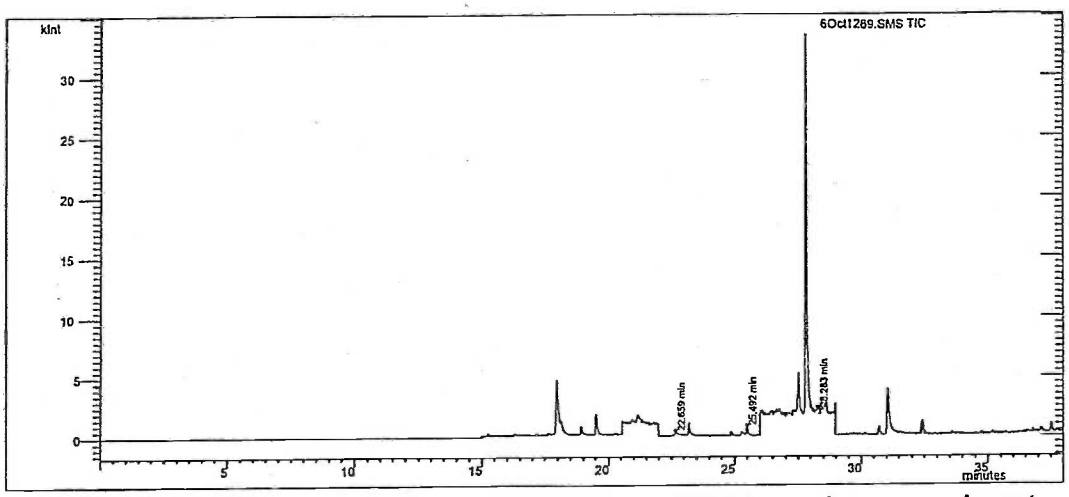


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.499	117.0+82.0	Chlorobenzene-d5(IS2)	999	2444	1.000
28.290	75.0	1,2,3 - TCP	1000	11238	0.086
22.668	98.0+70.0	Toluene-d8 (Surr 3)	873	949	1.018

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1269.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 7:08:34 PM
Inj. Notes:		**Operator Name:**	RyanP



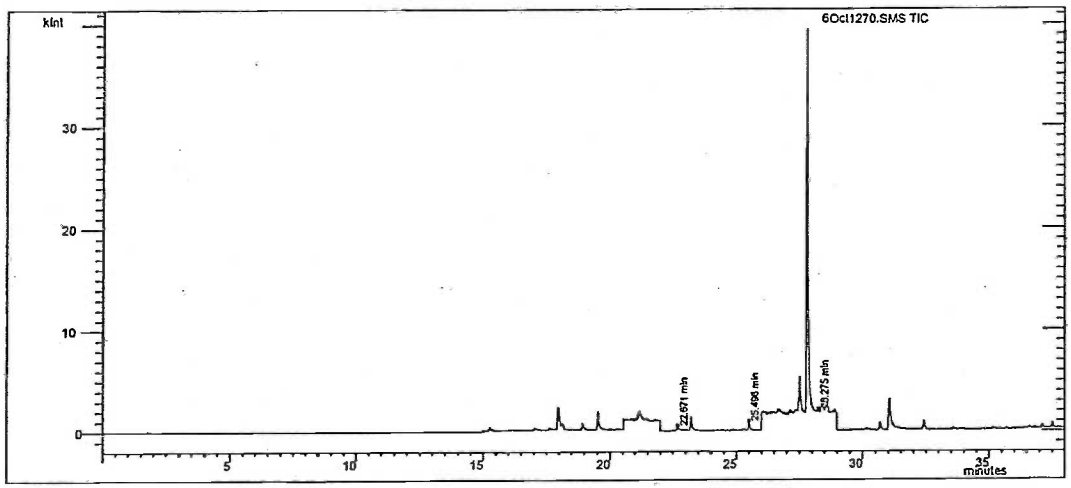
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2075	1.000
28.283	75.0	1,2,3 - TCP	1000	1236	0.011
22.659	98.0+70.0	Toluene-d8 (Surr 3)	949	774	0.978

ALAB : 06234

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1270.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	rinse	**Acquisition Date:**	10/22/2012 8:05:38 PM
Inj. Notes:		**Operator Name:**	RyanP

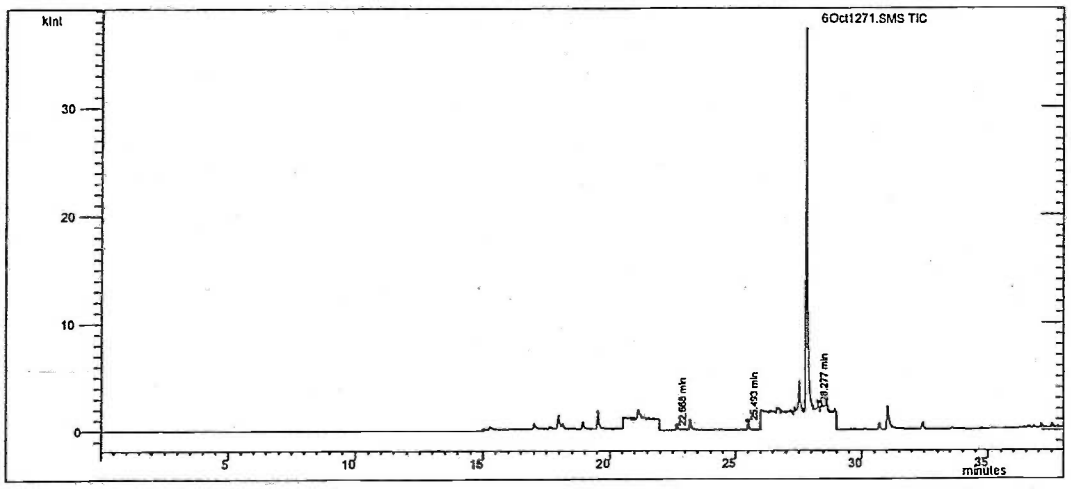


RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(IS2)	999	2288	1.000
28.275	75.0	1,2,3 - TCP	1000	729	0.006
22.671	98.0+70.0	Toluene-d8 (Surr 3)	887	817	0.937

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name:	c:\varianws\data\6oct12\6Oct1271.SMS	**Calc Method:**	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	0.02ppb tcp ccv	**Acquisition Date:**	10/22/2012 9:02:30 PM
Inj. Notes:	w#12100901	**Operator Name:**	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2394	1.000
28.277	75.0	1,2,3 - TCP	1000	2663	0.021
22.668	98.0+70.0	Toluene-d8 (Surr 3)	927	925	1.014

00235

EPA 8270M

GC/MS/SIM

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130645

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

Test: 8270M Dioxane
Method: EPA 8270M
Instrument: SVOA-MS (group
AnalysisDate: 10/16/2012
AnalysisEmployee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	312080-015	MW-3	312080-015							
4	312159-003	MW-4	312159-003							
5	312159-004	MW-7	312159-004							
6	312159-006	EB101512 Equip Blank	312159-006							
7	312205-002	MW-8	312205-002							
8	312205-003	MW-8-DUP	312205-003							
9	312205-004	MW-5	312205-004							
10	312205-007	EB101612 Equip Blank	312205-007							

InitialCalibSTD:		Solvent Manufacturer and Lot:	
CalibCheckSTD:		Sand Manufacturer and Lot:	
InternalSTD:		Na2SO4 Manufacturer and Lot:	
SurrogateSTD:		Surrogate Lot:	
LCSSTD:		Spike Lot:	
MSSTD:		Prep By Signature:	

ASSOCIATED LABORATORIES
8270-M PREP SHEET

BATCH ID: 8270M-101612

LAB REQUEST #	PREP METHOD	MATRIX TYPE	SURR. ADDED	SPIKE ADDED	INITIAL WT / VOL	FINAL VOLUME	EXTRACTION: DATE	EXTRACTION: TIME	EXTRACTION: BY	COMMENT
BLANK 101612	8270M	W	50 µL	—	500mL	0.5mL	10/16/12	6:00pm	H.C.	
LCS 101612				50 µL						
LCSD				50 µL						
312080 015				—						Arcadis
312159 003				—						Arcadis
004				—						"
006				—						"
312205 002				—						Arcadis
003				—						
004				—						
007				—						

Solvent Manufacturer and Lot # Fisher # 124145

Sand Manufacturer & Lot # —

Surrogate Lot # W-6270

Spike Lot # W-6145

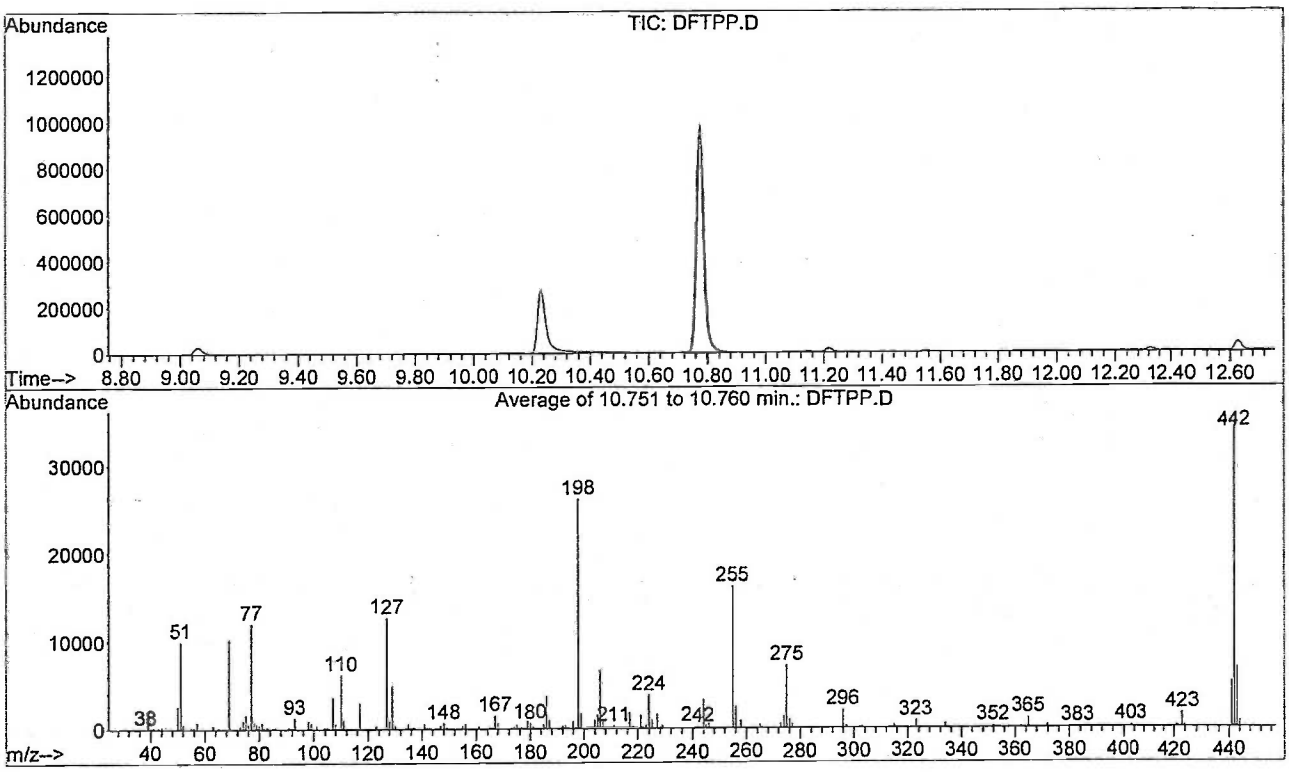
Na_2SO_4 Manufacturer & Lot # M.T. # 30562N

ALS: 8425
ALA: 0238

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : DFTPP.D
Acq On : 17 Oct 2012 1:36 pm
Operator : QN
Sample : DFTPP
Misc : s-1948
ALS Vial : 98 Sample Multiplier: 1

Integration File: EVENTS.E

Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Title :
Last Update : Wed May 05 16:21:01 2010



Spectrum Information: Average of 10.751 to 10.760 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.8	9882	PASS
68	69	0.00	2	1.7	173	PASS
69	198	0.00	100	39.0	10202	PASS
70	69	0.00	2	0.6	63	PASS
127	198	40	60	48.5	12675	PASS
197	198	0.00	1	0.7	196	PASS
198	198	100	100	100.0	26136	PASS
199	198	5	9	6.8	1775	PASS
275	198	10	30	27.2	7099	PASS
365	198	1	100	4.2	1105	PASS
441	443	0.01	100	77.1	5280	PASS
442	198	40	200	132.0	34503	PASS
443	442	17	23	19.9	6850	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : ICV@10ppb-01.D
Acq On : 17 Oct 2012 2:05 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 17 14:22:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

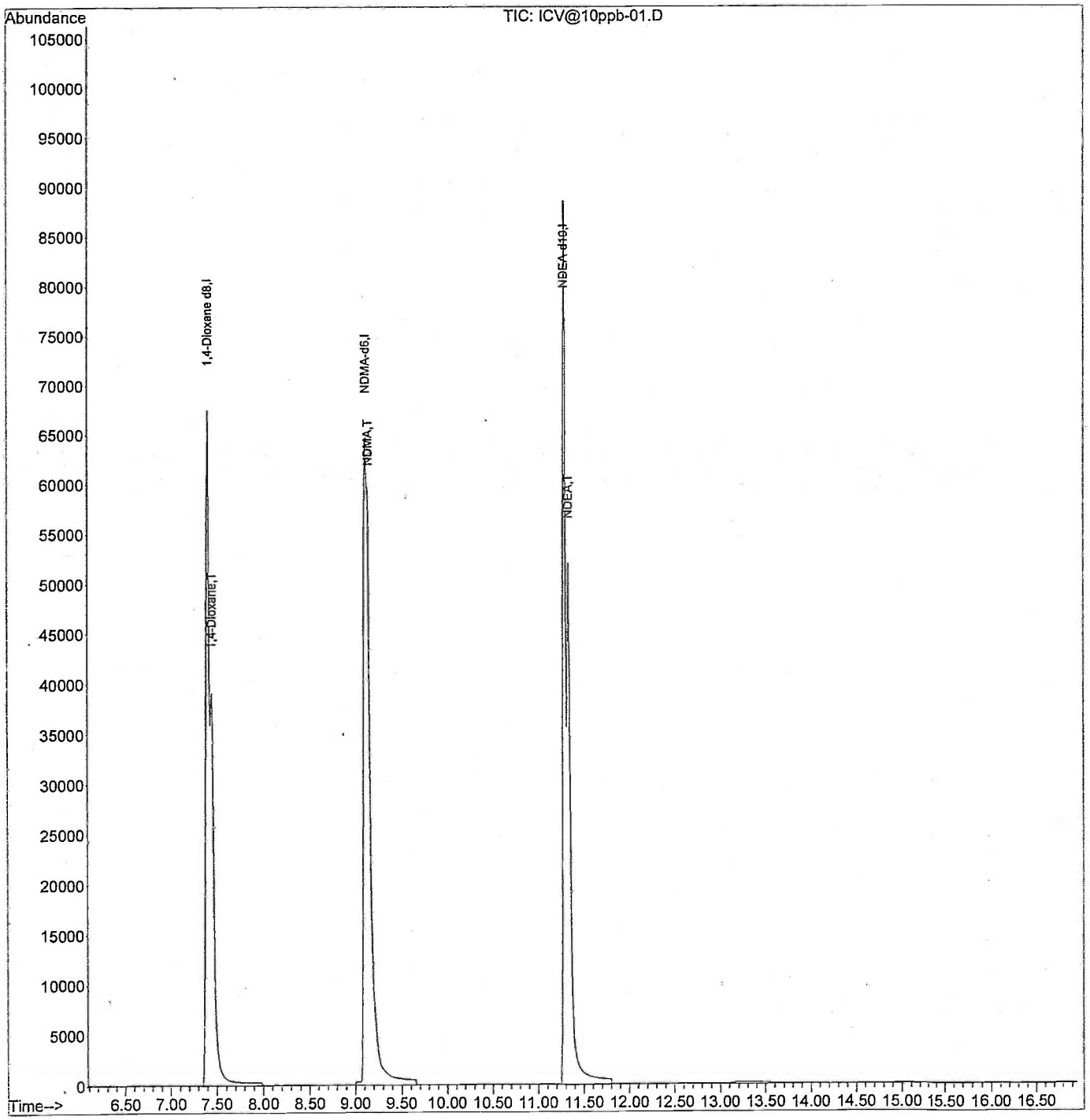
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	1137824	20.00	ug/L	-0.18
3) NDMA-d6	9.11	80	1669556	20.00	ug/L	-0.18
5) NDEA-d10	11.29	112	1475015	20.00	ug/L	-0.18
Target Compounds						Qvalue
2) 1,4-Dioxane	7.45	88	538894	10.25	ug/L	98
4) NDMA	9.15	74	699282	9.44	ug/L	100
6) NDEA	11.34	102	702860	10.96	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : ICV@10ppb-01.D
Acq On : 17 Oct 2012 2:05 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 17 14:22:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00241

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_01.D
Acq On : 17 Oct 2012 2:31 pm
Operator : QN
Sample : 625M_Blk_101612
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 17 14:48:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	218652	20.00	ug/L	-0.18
3) NDMA-d6	9.13	80	296890	20.00	ug/L	-0.16
5) NDEA-d10	11.30	112	295498	20.00	ug/L	-0.17

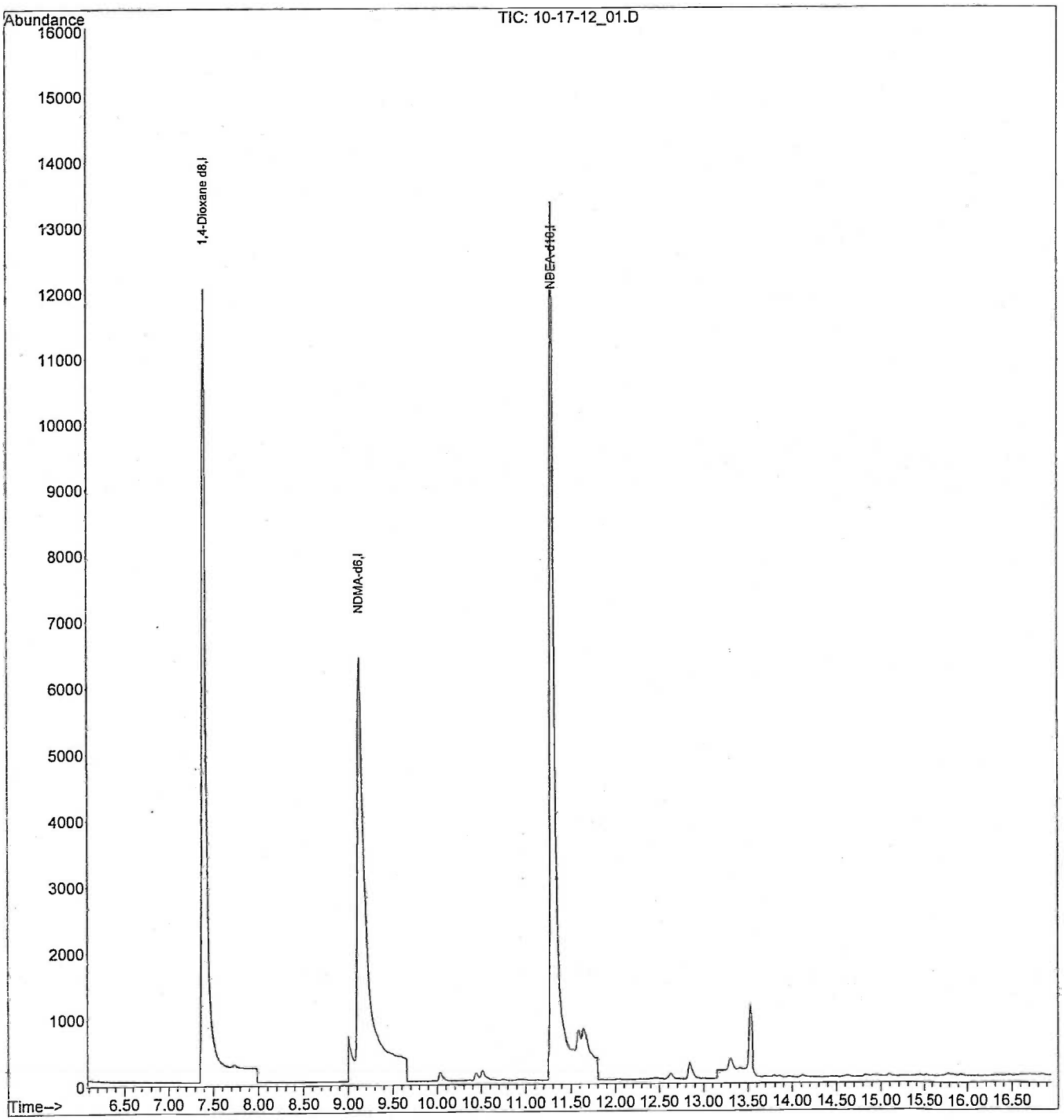
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_01.D
Acq On : 17 Oct 2012 2:31 pm
Operator : QN
Sample : 625M_Blk_101612
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 17 14:48:55 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00243

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_02.D
Acq On : 17 Oct 2012 2:58 pm
Operator : QN
Sample : 625M_LCS_101612
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 15:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	389825m	20.00	ug/L	-0.17
3) NDMA-d6	9.11	80	645607	20.00	ug/L	-0.18
5) NDEA-d10	11.29	112	589644	20.00	ug/L	-0.18
Target Compounds						Qvalue
2) 1,4-Dioxane	7.45	88	247237	13.72	ug/L	97
4) NDMA	9.15	74	387259	13.51	ug/L	99
6) NDEA	11.34	102	357723	13.95	ug/L	94

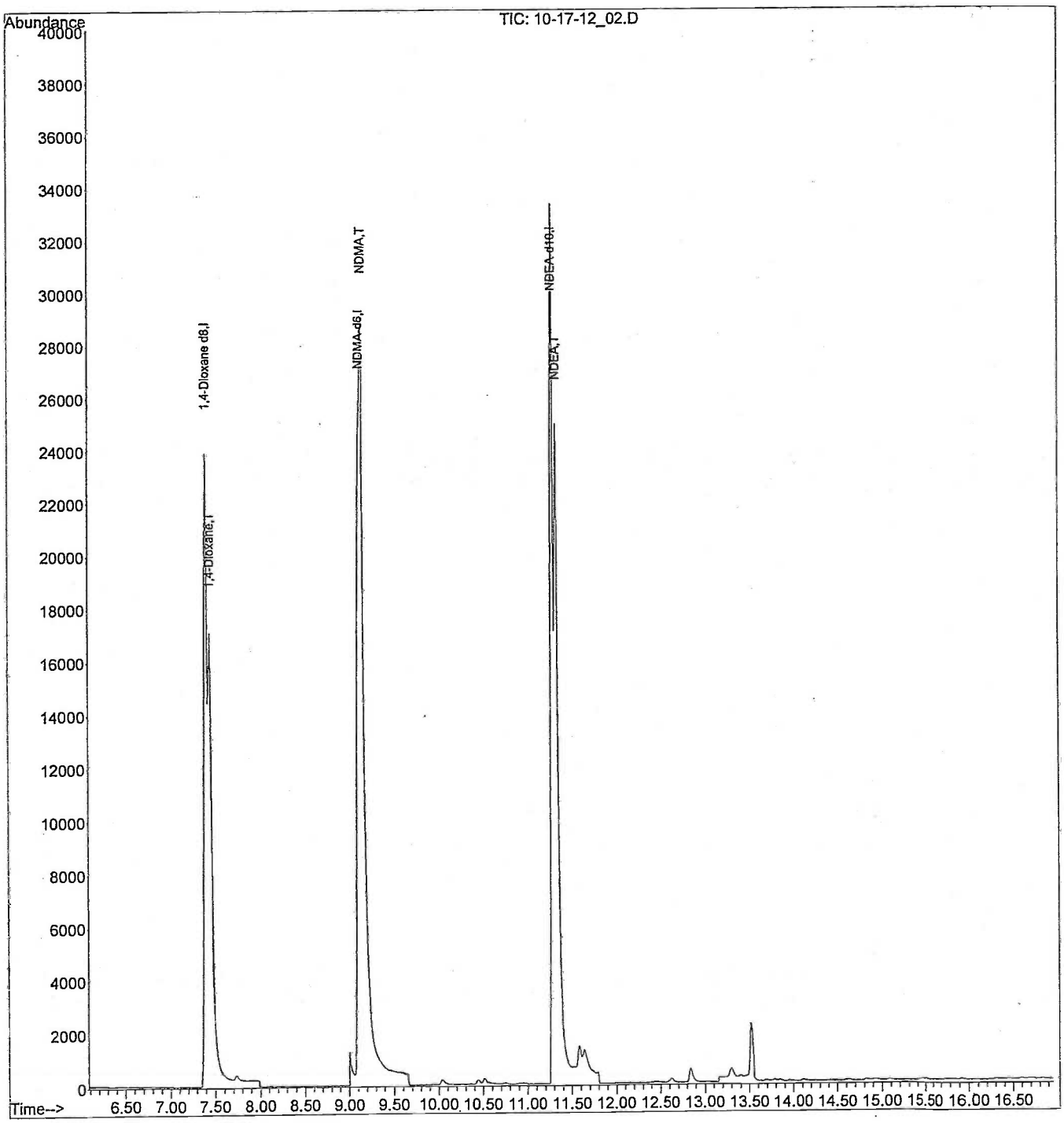
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALAB : 00244

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_02.D
Acq On : 17 Oct 2012 2:58 pm
Operator : QN
Sample : 625M_LCS_101612
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 18 15:13:32 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00245

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_03.D
Acq On : 17 Oct 2012 3:24 pm
Operator : QN
Sample : 625M_LCSD_101612
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 15:41:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

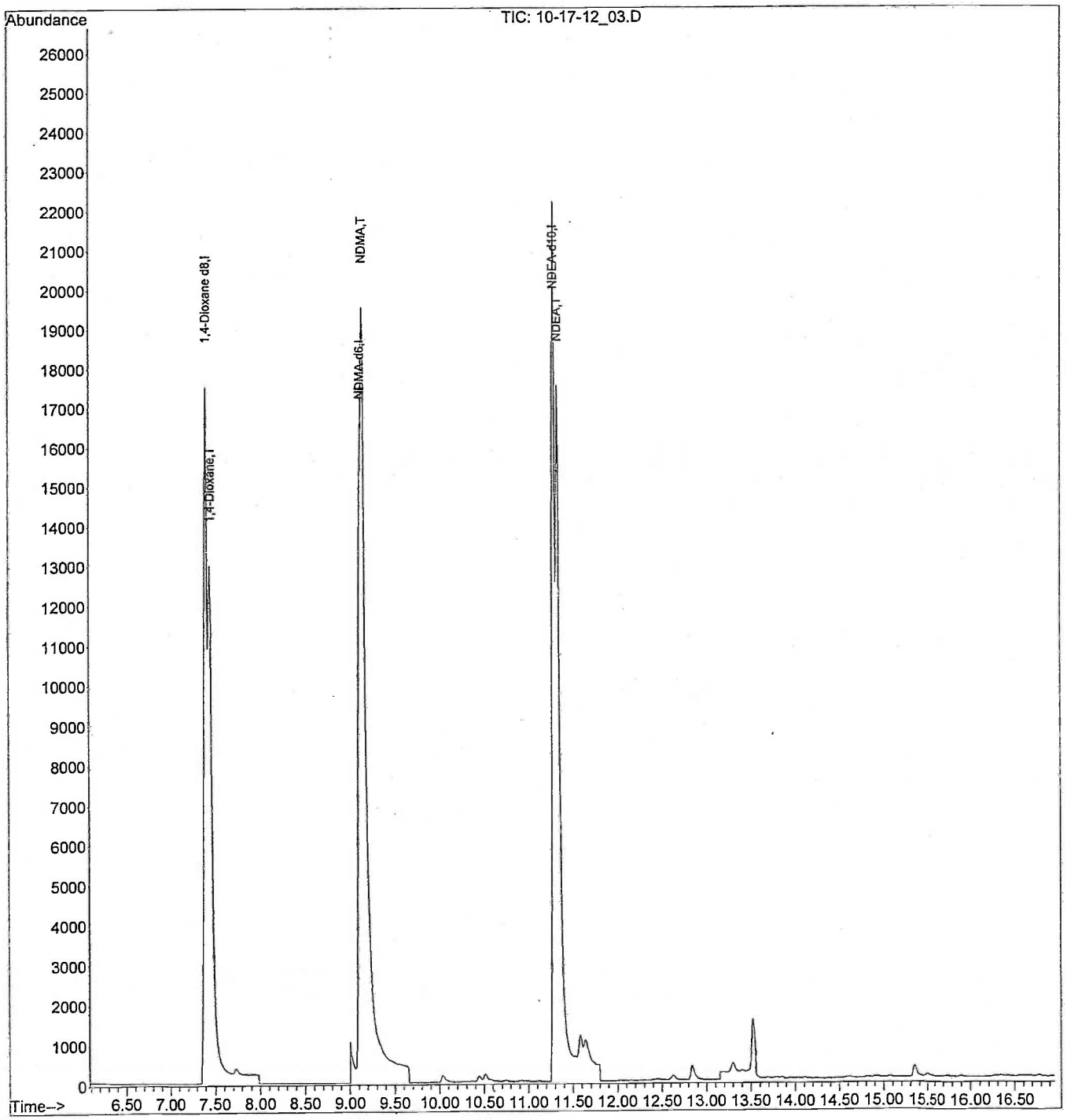
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	297192	20.00	ug/L	-0.18
3) NDMA-d6	9.12	80	432425	20.00	ug/L	-0.17
5) NDEA-d10	11.30	112	401717	20.00	ug/L	-0.17
Target Compounds						Qvalue
2) 1,4-Dioxane	7.45	88	194569	14.17	ug/L	98
4) NDMA	9.15	74	279462	14.56	ug/L	98
6) NDEA	11.34	102	257178	14.72	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_03.D
Acq On : 17 Oct 2012 3:24 pm
Operator : QN
Sample : 625M_LCSD_101612
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 15:41:36 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00247

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_05.D
Acq On : 17 Oct 2012 4:17 pm
Operator : QN
Sample : 312159-003
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 18 15:14:54 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	258437	20.00 ug/L	-0.18
3) NDMA-d6	9.13	80	355328	20.00 ug/L	-0.16
5) NDEA-d10	11.30	112	344434	20.00 ug/L	-0.17
Target Compounds					Qvalue
2) 1,4-Dioxane	7.45	88	8568m	0.72 ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(J) 10/18/12

ALAB : 00248

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\NDMA_1_4_DIOXANE\20121017\
Data File : 10-17-12_06.D
Acq On : 17 Oct 2012 4:43 pm
Operator : QN
Sample : 312159-004
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 17:00:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	231385	20.00	ug/L	-0.18
3) NDMA-d6	9.13	80	322169	20.00	ug/L	-0.16
5) NDEA-d10	11.30	112	316185	20.00	ug/L	-0.17

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALAB : 00249

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_06.D
Acq On : 17 Oct 2012 4:43 pm
Operator : QN
Sample : 312159-004
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 17:00:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	231385	20.00	ug/L	-0.18
3) NDMA-d6	9.13	80	322169	20.00	ug/L	-0.16
5) NDEA-d10	11.30	112	316185	20.00	ug/L	-0.17

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

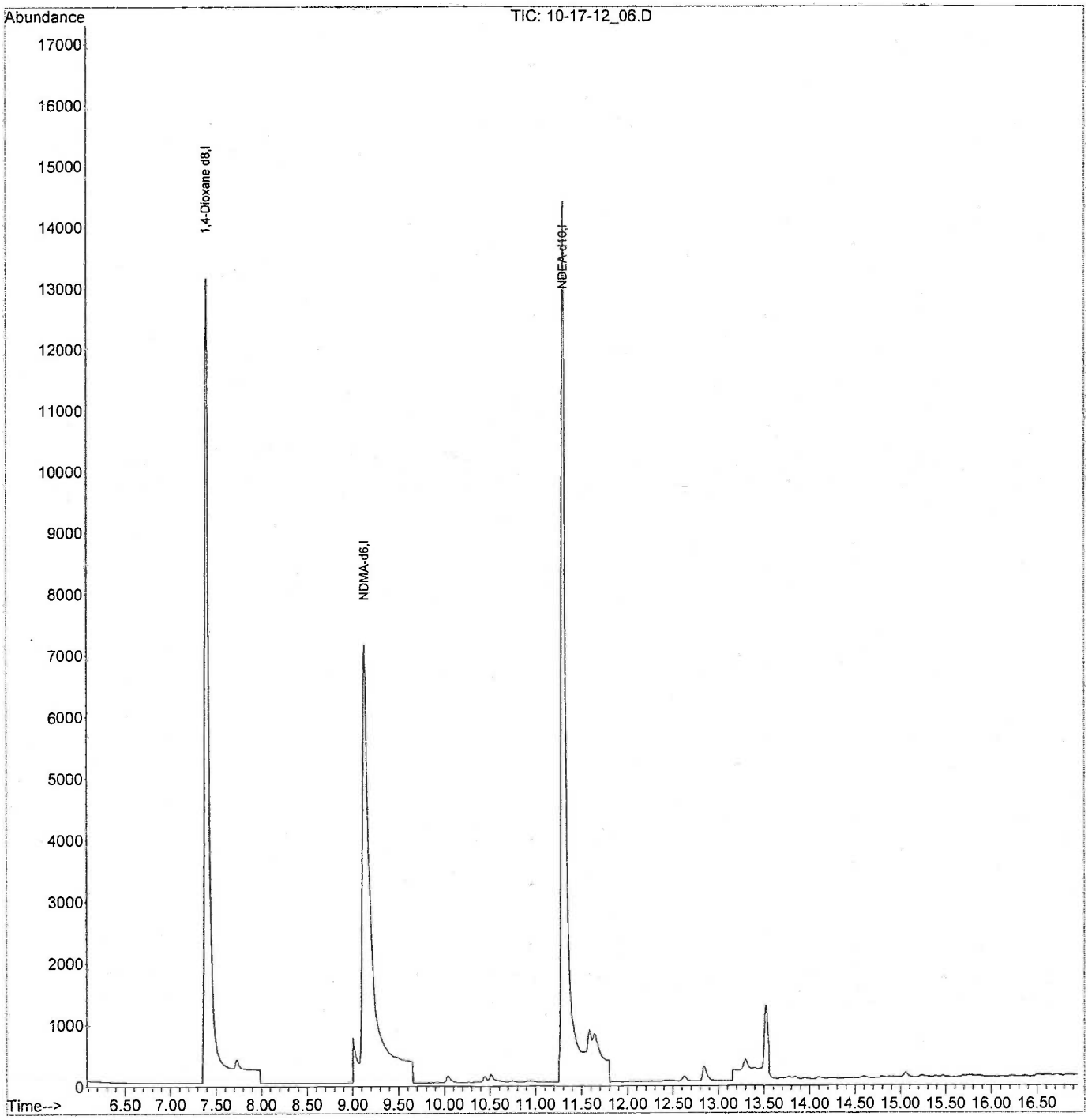
HM
10/18/12

ALAB : 00250

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_06.D
Acq On : 17 Oct 2012 4:43 pm
Operator : QN
Sample : 312159-004
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 17:00:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00251

Quantitation Report (Not Reviewed)

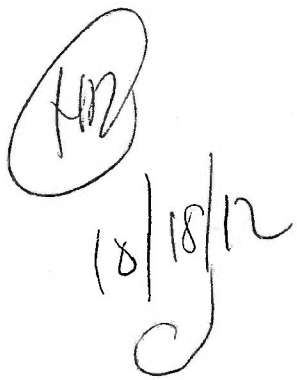
Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_07.D
Acq On : 17 Oct 2012 5:10 pm
Operator : QN
Sample : 312159-006
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 15:17:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.40	96	281113	20.00	ug/L	-0.18
3) NDMA-d6	9.13	80	383134	20.00	ug/L	-0.16
5) NDEA-d10	11.30	112	380631	20.00	ug/L	-0.17

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

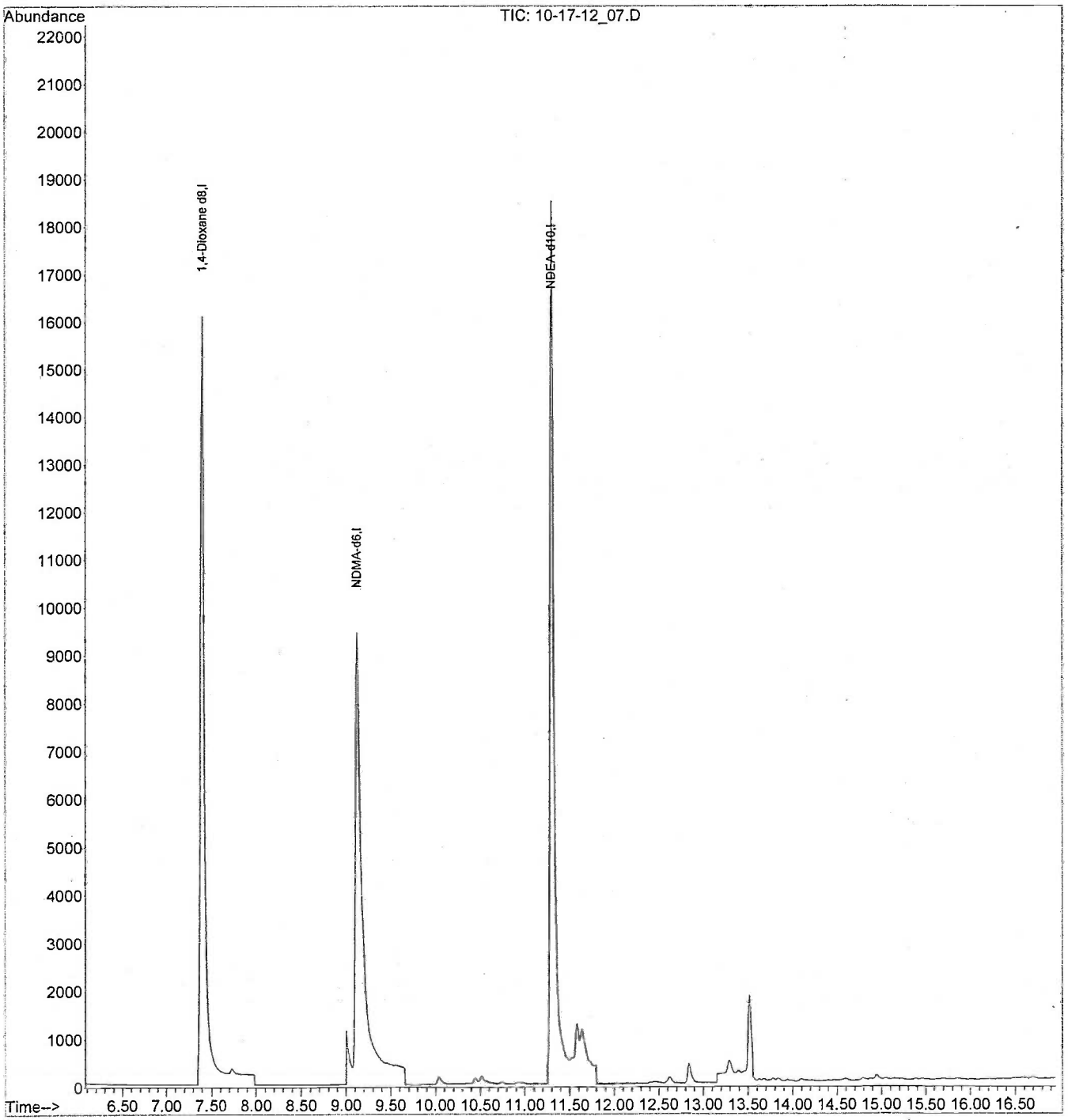


ALAB:00252

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : 10-17-12_07.D
Acq On : 17 Oct 2012 5:10 pm
Operator : QN
Sample : 312159-006
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 18 15:17:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

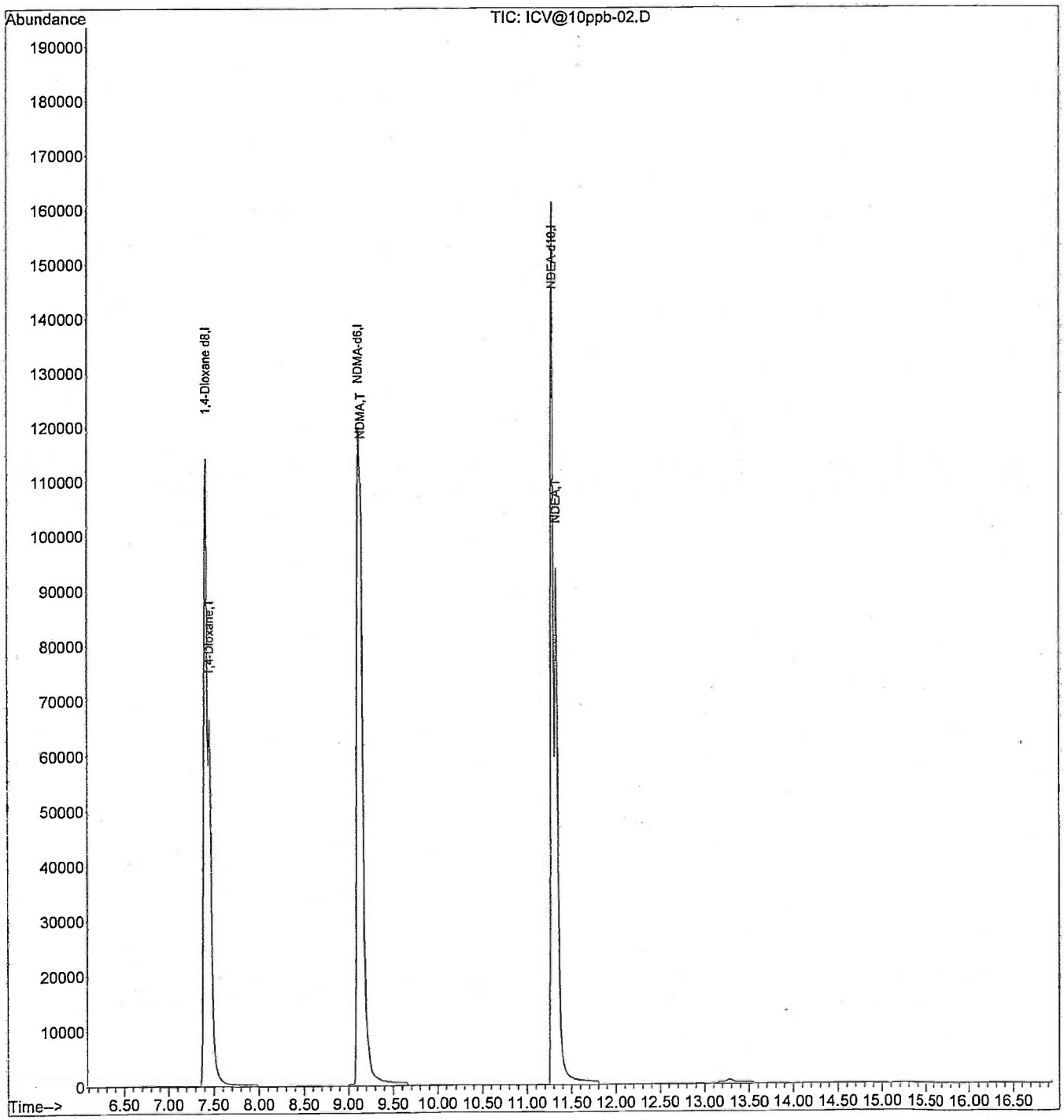


ALAB : 00253

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : ICV@10ppb-02.D
Acq On : 17 Oct 2012 7:22 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 18 15:20:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration



ALAB : 00254

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\DATA\NDMA_1_4_Dioxane\20121017\
Data File : ICV@10ppb-02.D
Acq On : 17 Oct 2012 7:22 pm
Operator : QN
Sample : ICV@10ppb
Misc : W-6204
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 18 15:20:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\1625_M_041311F2.M
Quant Title :
QLast Update : Wed May 05 16:21:01 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dioxane d8	7.41	96	1898343	20.00	ug/L	-0.17
3) NDMA-d6	9.11	80	2902619	20.00	ug/L	-0.18
5) NDEA-d10	11.29	112	2568711	20.00	ug/L	-0.18
Target Compounds						Qvalue
2) 1,4-Dioxane	7.46	88	911626	10.39	ug/L	98
4) NDMA	9.15	74	1234236	9.58	ug/L	99
6) NDEA	11.34	102	1251225	11.20	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed