LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.372	3	10	22	rBV	293714	295588	22.27%	1.991%
2	1.507	46	52	68	rVB2	45409	54505	4.11%	0.367%
3	1.617	74	86	95	rBV4	434705	749470	56.47%	5.048%
4	1.678	100	105	111	rVB	60161	60618	4.57%	0.408%
5	1.752	120	128	135	rVB	95887	104102	7.84%	0.701%
6	1.932	170	184	199	rVB2	159287	258601	19.49%	1.742%
7	2.015	203	210	219	rVV	46377	61707	4.65%	0.416%
8	2.240	268	280	294	rVB4	121641	243238	18.33%	1.638%
9	2.343	305	312	321	rVB	32018	43484	3.28%	0.293%
10	2.443	337	343	351	rVV	22807	31002	2.34%	0.209%
11	2.494	352	359	371	rVB	43619	67707	5.10%	0.456%
12	2.597	380	391	408	rBV	248082	404166	30.45%	2.722%
13	3.047	526	531	544	rVB2	18105	32963	2.48%	0.222%
14	3.170	560	569	583	rVB3	16857	41296	3.11%	0.278%
15	3.391	625	638	653	rBV3	20730	45849	3.45%	0.309%
16	3.613	690	707	726	rBV2	22499	55759	4.20%	0.376%
17	3.735	732	745	760	rBV3	8587	20182	1.52%	0.136%
18	3.874	773	788	795	rBV6	11680	27898	2.10%	0.188%
19	3.922	800	803	823	rVV4	11927	33080	2.49%	0.223%
20	4.025	824	835	850	rVB4	9645	24019	1.81%	0.162%
21	4.137	857	870	881	rBV7	6054	14280	1.08%	0.096%
22	4.385	933	947	961	rVB6	11564	27927	2.10%	0.188%
23	4.581	994	1008	1020	rBV3	7244	17607	1.33%	0.119%
24	4.710	1031	1048	1068	rBV	197401	506146	38.14%	3.409%
25	5.115	1157	1174	1198	rBV	206606	481949	36.32%	3.246%
26	5.221	1198	1207	1218	rVB3	13175	26827	2.02%	0.181%
27	5.430	1258	1272	1284	rBV8	12383	30065	2.27%	0.203%
28	5.771	1358	1378	1405	rBV2	445707	1193812	89.96%	8.041%
29	5.938	1423	1430	1444	rVB4	12092	27322	2.06%	0.184%
30	6.012	1444	1453	1463	rVV7	6827	17405	1.31%	0.117%
31	6.070	1463	1471	1486	rVB5	11042	26357	1.99%	0.178%
32	6.295	1525	1541	1578	rBV	408253	857364	64.60%	5.775%
33	6.549	1611	1620	1624	rBV3	9835	16581	1.25%	0.112%
34	6.681	1652	1661	1667	rBV3	14388	24800	1.87%	0.167%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Title : TRACE VOA SOM01.0

35	6.735	1667	1678	1692	rVV	267535	521325	39.28%	3.511%
36	7.288	1837	1850	1864	rVB5	15324	37477	2.82%	0.252%
37	7.417	1878	1890	1902	rBV4	18257	38120	2.87%	0.257%
38	7.607	1933	1949	1976	rBV	144496	294692	22.21%	1.985%
39	7.935	2024	2051	2066	rBV	561572	1031574	77.73%	6.948%
40	8.218	2128	2139	2150	rBV	83100	155063	11.68%	1.044%
41	8.401	2187	2196	2202	rBV6	9132	16413	1.24%	0.111%
42	8.443	2203	2209	2225	rVB	12422	23614	1.78%	0.159%
43	8.693	2272	2287	2345	rBV2	383520	1327098	100.00%	8.939%
44	8.954	2358	2368	2378	rBV3	24787	43539	3.28%	0.293%
45	9.099	2399	2413	2429	rVB10	8158	20595	1.55%	0.139%
46	9.452	2508	2523	2547	rBV	520179	1012410	76.29%	6.819%
47	9.600	2558	2569	2590	rVB	310353	532515	40.13%	3.587%
48	9.729	2598	2609	2622	rVB	51315	98013	7.39%	0.660%
49	10.513	2844	2853	2862	rBV	20604	33216	2.50%	0.224%
50	10.790	2926	2939	2951	rBV	199059	356326	26.85%	2.400%
51	10.935	2974	2984	2996	rBV	15473	26112	1.97%	0.176%
52	11.053	3009	3021	3035	rBV4	8187	16423	1.24%	0.111%
53	11.639	3187	3203	3207	rBV5	8210	15511	1.17%	0.104%
54	11.671	3208	3213	3226	rVB3	11857	19243	1.45%	0.130%
55	11.844	3254	3267	3287	rBV	420014	818587	61.68%	5.514%
56	12.224	3371	3385	3407	rVB	442079	812865	61.25%	5.475%
57	12.404	3431	3441	3453	rBV	28190	44655	3.36%	0.301%
58	12.655	3505	3519	3528	rBV9	6946	14273	1.08%	0.096%
59	12.709	3528	3536	3544	rBV	13792	19896	1.50%	0.134%
60	12.889	3586	3592	3608	rVB5	8813	15075	1.14%	0.102%
61	12.999	3620	3626	3639	rVB4	16875	26904	2.03%	0.181%
62	13.278	3699	3713	3722	rVB3	12903	24423	1.84%	0.165%
63	13.352	3729	3736	3743	rBV4	9909	14221	1.07%	0.096%
64	13.555	3790	3799	3806	rVB5	9073	14295	1.08%	0.096%
65	13.857	3887	3893	3900	rVV3	8915	13291	1.00%	0.090%
66	13.909	3900	3909	3922	rVB4	13105	24710	1.86%	0.166%
67	14.089	3956	3965	3972	rBV2	7938	14057	1.06%	0.095%
68	14.143	3974	3982	3994	rVV5	11924	23294	1.76%	0.157%
69	14.217	3994	4005	4016	rVV	144869	229415	17.29%	1.545%
70	14.311	4019	4034	4046	rVV2	167841	280870	21.16%	1.892%
71	14.696	4144	4154	4155	rBV2	17536	23735	1.79%	0.160%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Title : TRACE VOA SOM01.0

72	14.719	4155	4161	4179	rVB2	41515	73786	5.56%	0.497%
73	14.831	4185	4196	4206	rBV2	65774	106989	8.06%	0.721%
74	14.902	4207	4218	4230	rBV4	66332	123653	9.32%	0.833%
75	14.967	4230	4238	4253	rVB6	22234	38949	2.93%	0.262%
76	15.053	4255	4265	4274	rBV2	19800	34102	2.57%	0.230%
77	15.111	4276	4283	4295	rVB5	13468	24342	1.83%	0.164%
78	15.221	4309	4317	4322	rBV3	32423	52198	3.93%	0.352%
79	15.298	4332	4341	4351	rVB3	111611	181531	13.68%	1.223%
80	15.375	4358	4365	4372	rVB4	15981	23376	1.76%	0.157%
81	15.449	4382	4388	4394	rVB3	14647	20472	1.54%	0.138%
82	15.526	4408	4412	4423	rVB8	21423	32567	2.45%	0.219%
83	15.761	4478	4485	4500	rVB4	20975	49668	3.74%	0.335%
84	15.938	4533	4540	4551	rVB4	36300	64985	4.90%	0.438%
85	16.037	4563	4571	4585	rVB7	25704	46364	3.49%	0.312%
86	16.291	4644	4650	4657	rBV8	10362	16128	1.22%	0.109%

Sum of corrected areas: 14846631

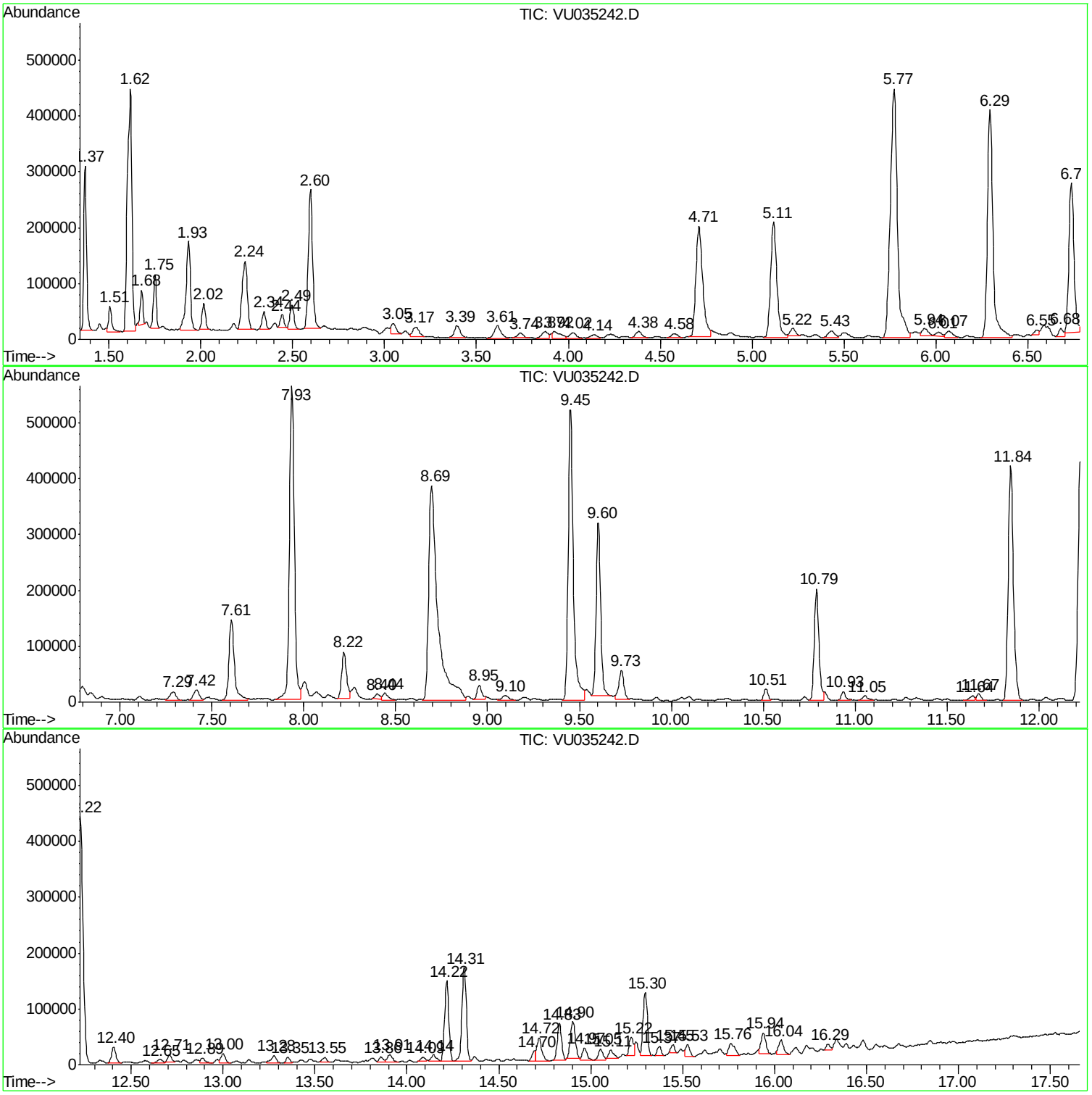
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

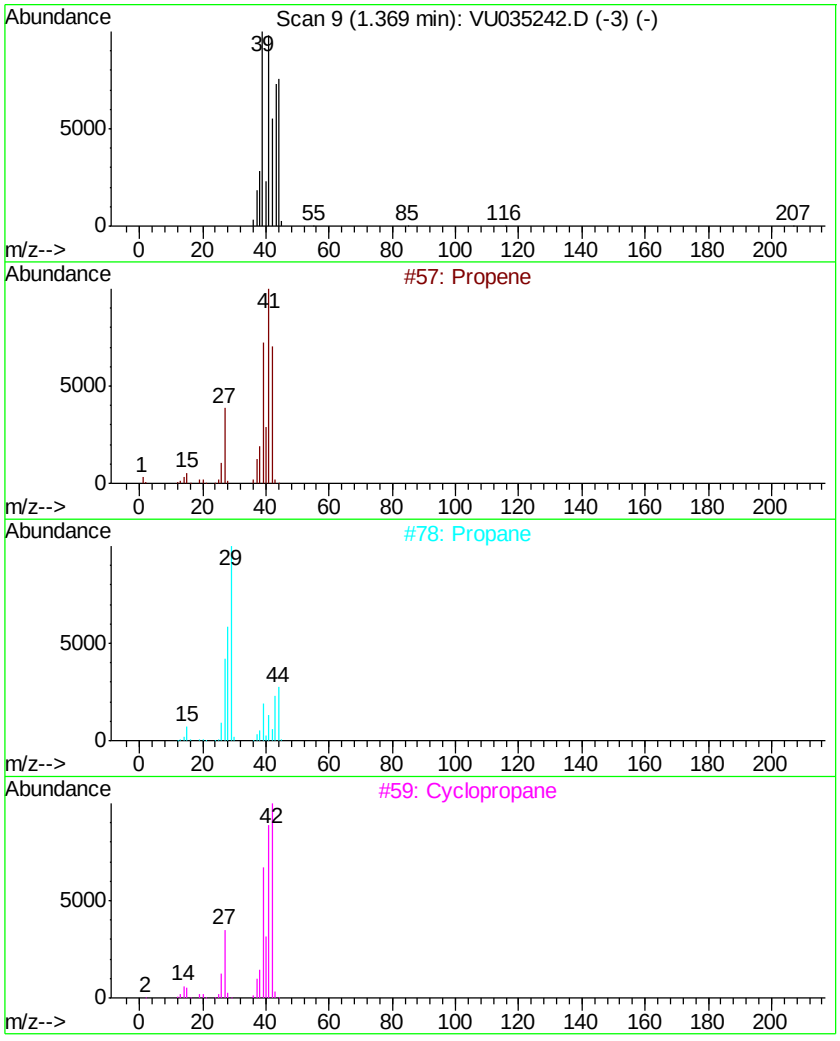
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

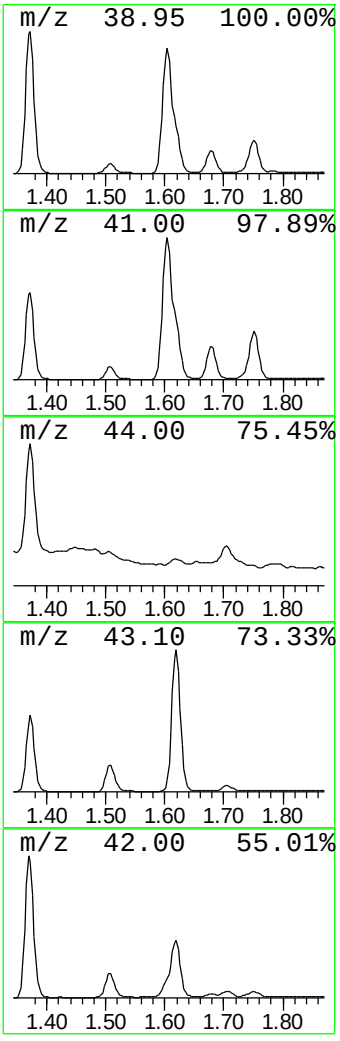
****

Peak Number 1 (DEL) Alkane: Cyclic1.37 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.37	1.72 ug/L	295588	1,4-Difluorobenzene	6.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	9
2	Propane	44	C3H8	000074-98-6	5
3	Cyclopropane	42	C3H6	000075-19-4	4
4	Propane	44	C3H8	000074-98-6	4
5	Cyclopropane	42	C3H6	000075-19-4	4





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

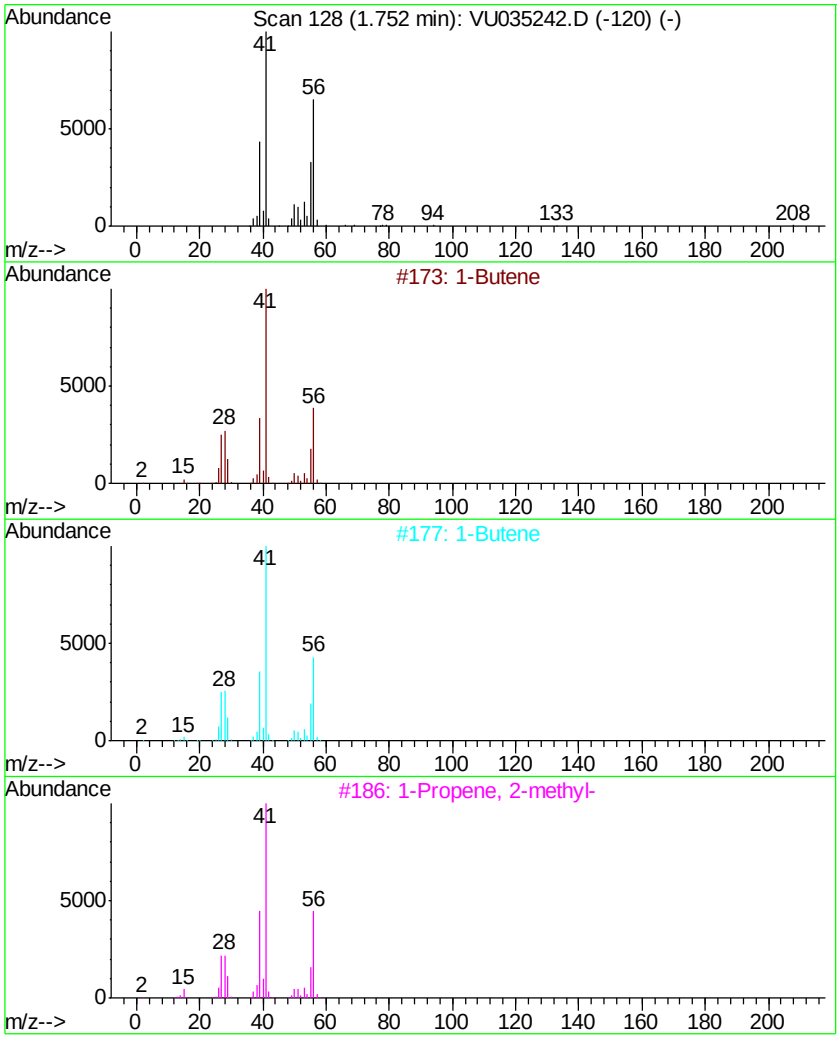
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

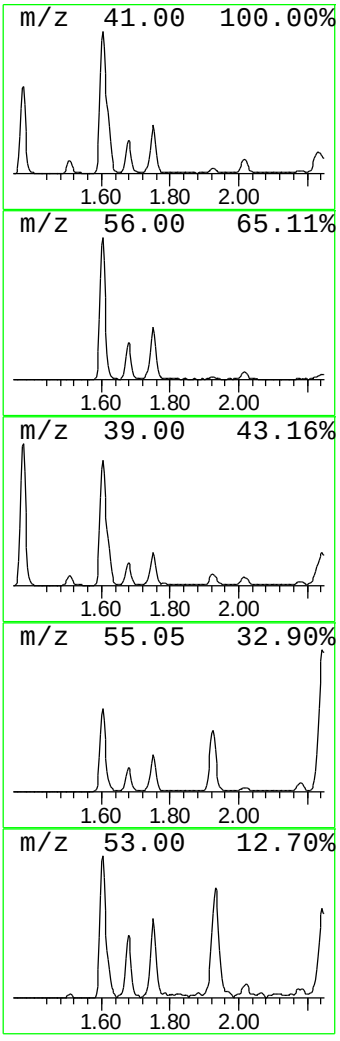
****

Peak Number 2 (DEL) Alkane: Cyclic1.75 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	0.61 ug/L	104102	1,4-Difluorobenzene	6.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene	56	C4H8	000106-98-9	81
2	1-Butene	56	C4H8	000106-98-9	74
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	74
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	72
5	1-Butene	56	C4H8	000106-98-9	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

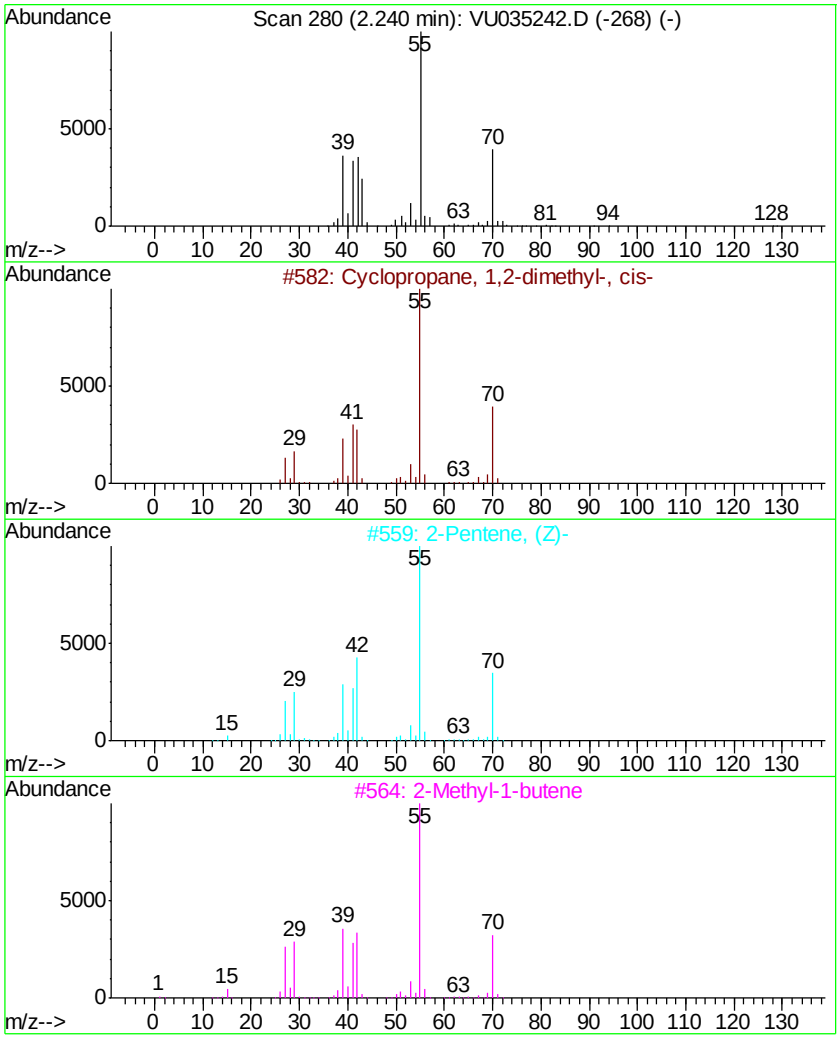
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

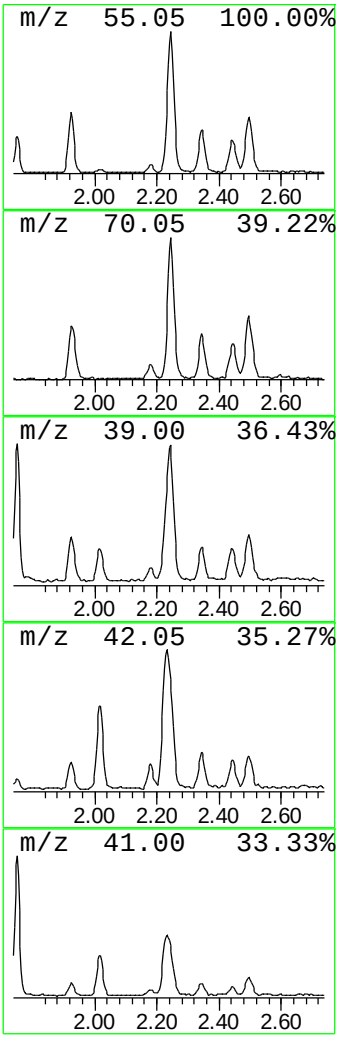
****

Peak Number 3 (DEL) Alkane: Cyclic2.24 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.24	1.42 ug/L	243238	1,4-Difluorobenzene	6.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	90
2	2-Pentene, (Z)-	70	C5H10	000627-20-3	90
3	2-Methyl-1-butene	70	C5H10	000563-46-2	90
4	2-Methyl-1-butene	70	C5H10	000563-46-2	90
5	2-Pentene, (E)-	70	C5H10	000646-04-8	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

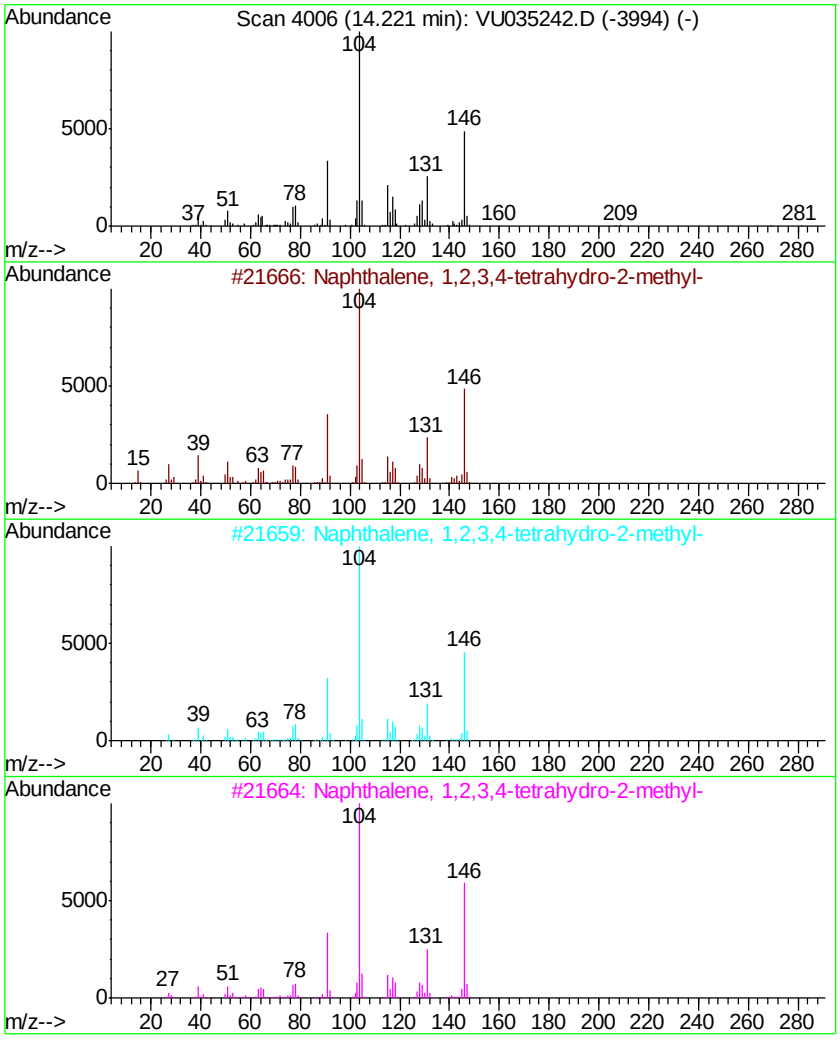
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

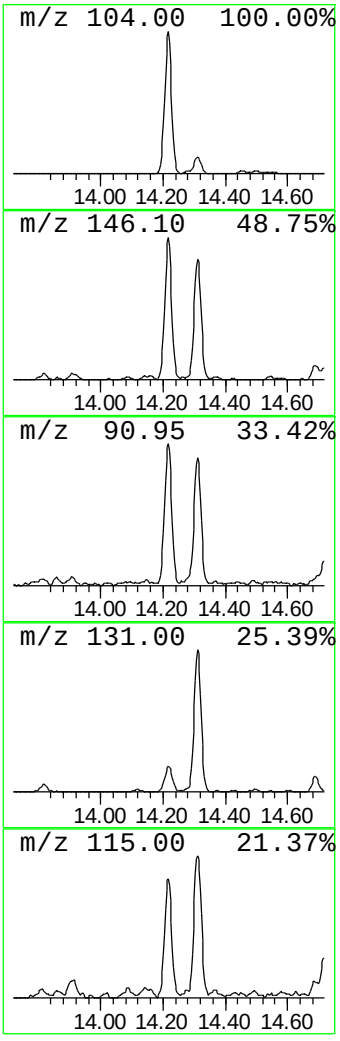
****

Peak Number 5 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	1.40 ug/L	229415	1,4-Dichlorobenzene-d4	11.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	91
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	91
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	87
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	76
5	Naphth[1,2-b]oxirene, 1a,2,3,7b-...	146	C10H10O	002461-34-9	62





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

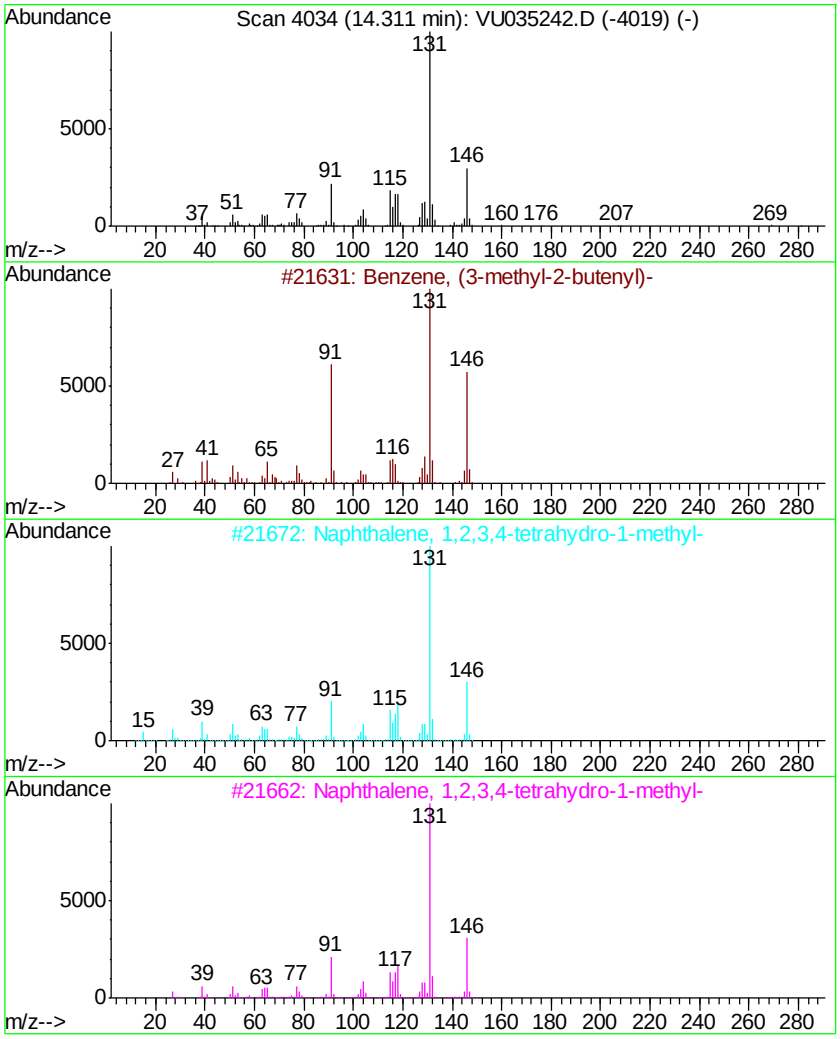
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

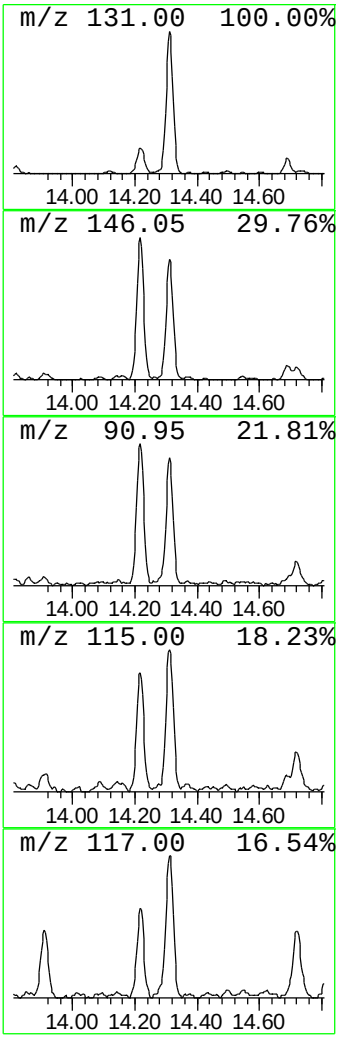
****

Peak Number 6 Benzene, (3-methyl-2-butenyl)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.31	1.72 ug/L	280870	1,4-Dichlorobenzene-d4	11.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	96
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	96
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	96
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	93
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

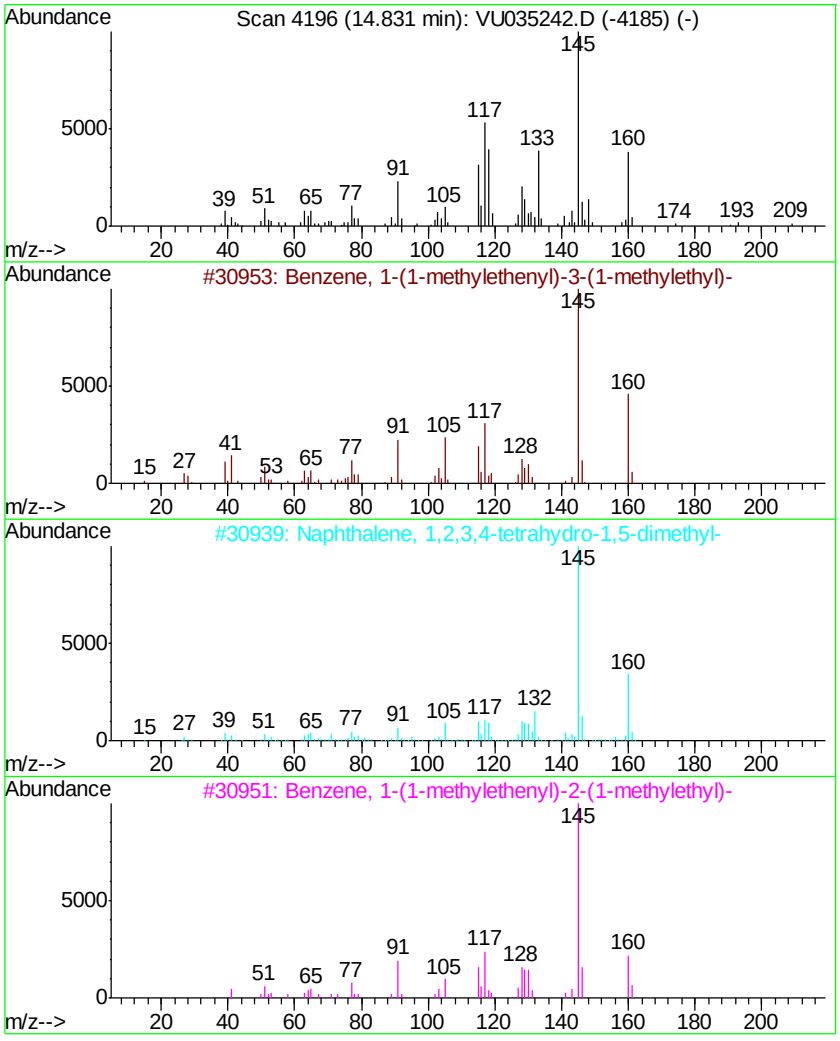
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

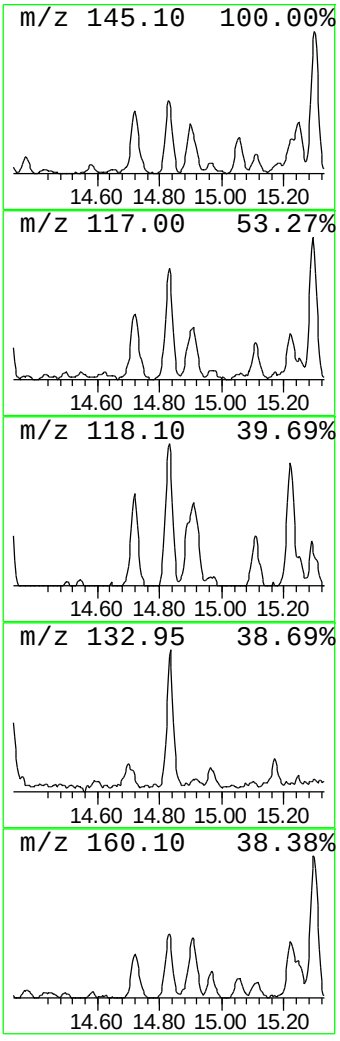
****

Peak Number 7 Benzene, 1-(1-methylethenyl... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.65 ug/L	106989	1,4-Dichlorobenzene-d4	11.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1-methylethenyl)-3-(...	160	C12H16	001129-29-9	70
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021564-91-0	64
3	Benzene, 1-(1-methylethenyl)-2-(...	160	C12H16	005557-93-7	58
4	Benzene, 1-(1,1-dimethylethyl)-4...	160	C12H16	001746-23-2	58
5	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	55





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

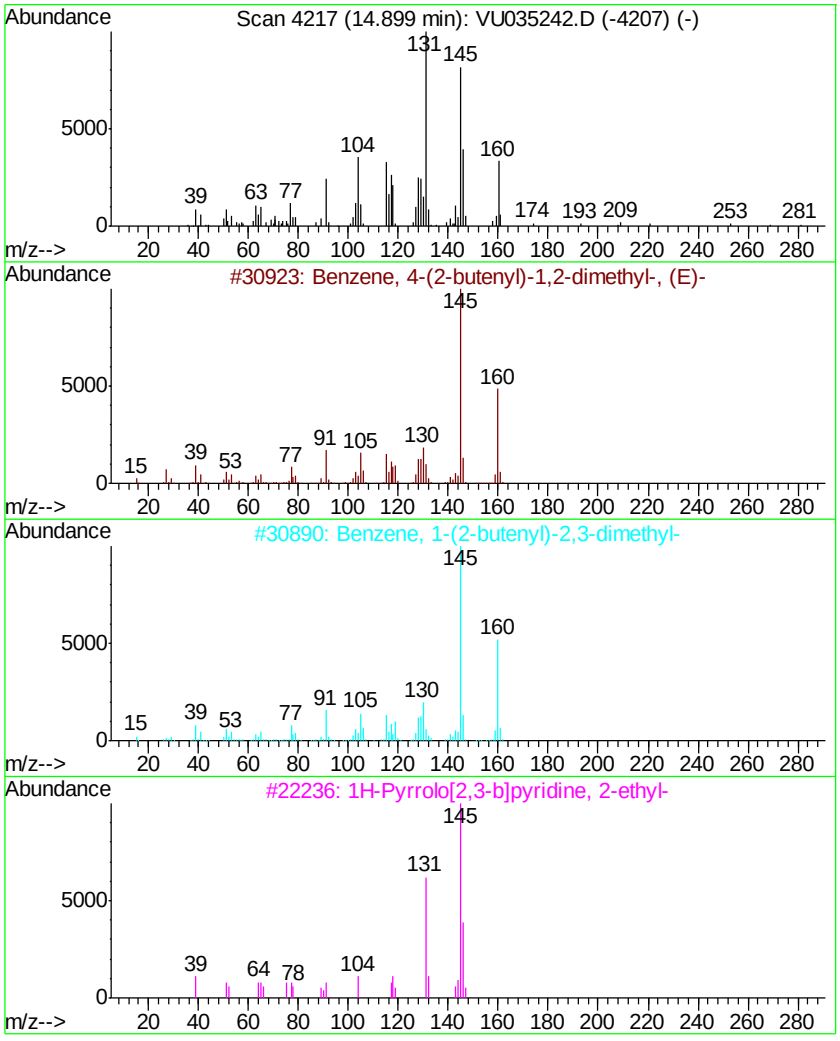
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

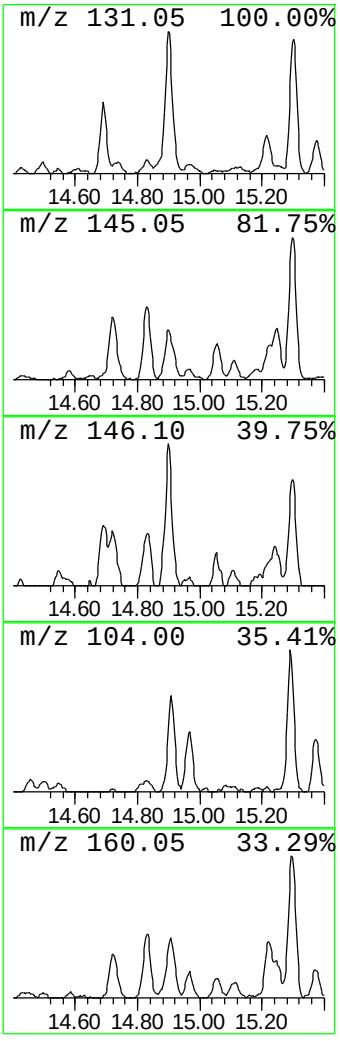
****

Peak Number 8 Benzene, 4-(2-butenyl)-1,2-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	0.76 ug/L	123653	1,4-Dichlorobenzene-d4	11.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-(2-butenyl)-1,2-dimet...	160	C12H16	054340-86-2	78
2	Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	70
3	1H-Pyrrolo[2,3-b]pyridine, 2-ethyl-	146	C9H10N2	023612-49-9	58
4	Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	55
5	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

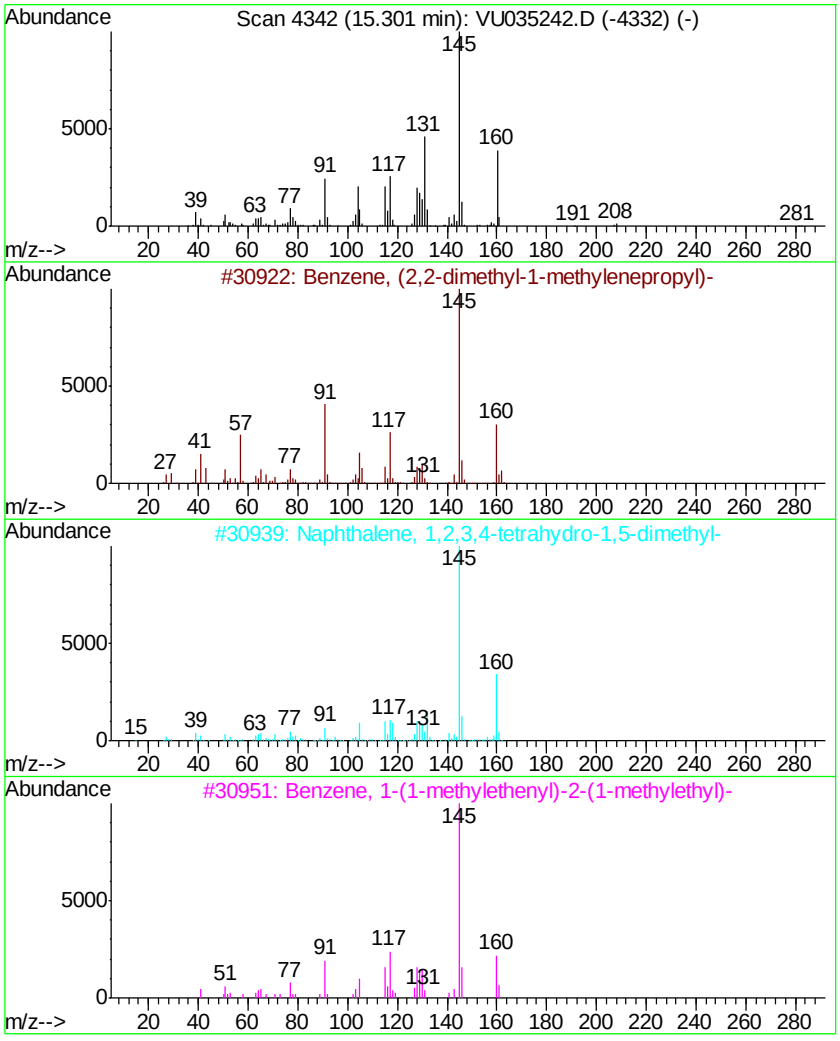
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

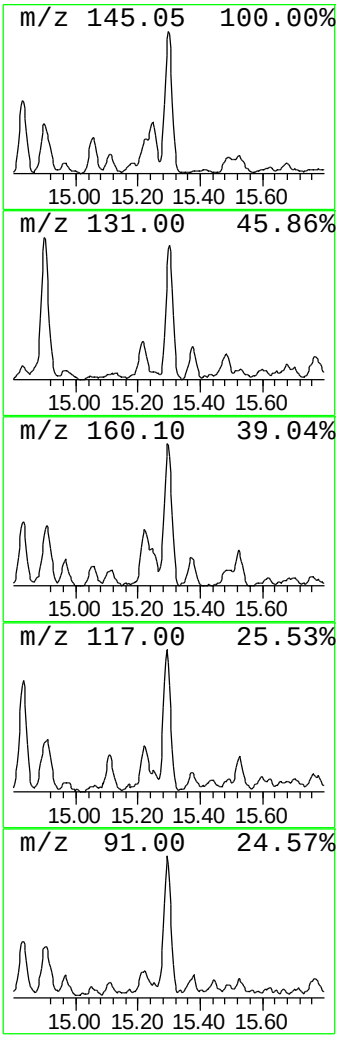
****

Peak Number 9 Benzene, (2,2-dimethyl-1-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	1.11 ug/L	181531	1,4-Dichlorobenzene-d4	11.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2,2-dimethyl-1-methyle...	160	C12H16	005676-29-9	86
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021564-91-0	76
3	Benzene, 1-(1-methylethenyl)-2-(...	160	C12H16	005557-93-7	70
4	Benzene, 1-(1-methylethenyl)-3-(...	160	C12H16	001129-29-9	64
5	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Data File : VU035242.D
Acq On : 18 Oct 2019 04:30
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : H0FY7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Cyc...	1.37	1.7	ug/L	295588	1	6.29	857364	5.0
(DEL) Alkane: Cyc...	1.75	0.6	ug/L	104102	1	6.29	857364	5.0
(DEL) Alkane: Cyc...	2.24	1.4	ug/L	243238	1	6.29	857364	5.0
Naphthalene, 1,2,...	14.22	1.4	ug/L	229415	3	11.84	818587	5.0
Benzene, (3-methy...	14.31	1.7	ug/L	280870	3	11.84	818587	5.0
Benzene, 1-(1-met...	14.83	0.7	ug/L	106989	3	11.84	818587	5.0
Benzene, 4-(2-but...	14.90	0.8	ug/L	123653	3	11.84	818587	5.0
Benzene, (2,2-dim...	15.30	1.1	ug/L	181531	3	11.84	818587	5.0