LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

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\SOMUTR052219WMA.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	1.305	57	67	79	rBV	641771	750043	5.46%	0.781%
2	1.402	90	97	104	rBV2	643130	690636	5.02%	0.719%
3	1.675	175	182	194	rVV	152477	201636	1.47%	0.210%
4	1.752	196	206	226	rVB	3980380	5354032	38.95%	5.573%
5	2.270	357	367	373	rBV	365427	610037	4.44%	0.635%
6	2.701	487	501	507	rBV	607438	1224866	8.91%	1.275%
7	2.785	519	527	537	rVB	461972	792848	5.77%	0.825%
8	2.836	538	543	559	rVB2	117094	218470	1.59%	0.227%
9	2.987	575	590	608	rVB	777936	1615641	11.75%	1.682%
10	3.981	885	899	912	rVB2	70804	175189	1.27%	0.182%
11	4.080	913	930	948	rVV2	403452	1056827	7.69%	1.100%
12	4.186	948	963	1009	rVB2	231667	714191	5.20%	0.743%
13	4.643	1089	1105	1119	rBV2	234543	553127	4.02%	0.576%
14	4.720	1119	1129	1158	rVB5	68351	215557	1.57%	0.224%
15	4.984	1194	1211	1225	rBV2	286792	693446	5.04%	0.722%
16	5.071	1225	1238	1261	rVB3	280090	705237	5.13%	0.734%
17	5.247	1266	1293	1303	rBV3	186250	670832	4.88%	0.698%
18	5.334	1303	1320	1325	rVV2	510586	1276242	9.28%	1.329%
19	5.382	1326	1335	1351	rVV	1708930	3692001	26.86%	3.843%
20	5.473	1351	1363	1373	rVV3	366041	897904	6.53%	0.935%
21	5.543	1374	1385	1396	rVV4	338741	885822	6.44%	0.922%
22	5.614	1396	1407	1428	rVB2	338050	779080	5.67%	0.811%
23	5.881	1477	1490	1502	rBV	462300	914090	6.65%	0.952%
24	6.328	1616	1629	1637	rBV	311997	602458	4.38%	0.627%
25	6.386	1638	1647	1664	rVV4	347597	871810	6.34%	0.908%
26	6.730	1742	1754	1768	rVB	218893	453713	3.30%	0.472%
27	6.829	1768	1785	1795	rVV7	72541	210606	1.53%	0.219%
28	6.897	1795	1806	1828	rVB5	245941	689685	5.02%	0.718%
29	7.048	1833	1853	1865	rBV5	285141	780179	5.68%	0.812%
30	7.225	1893	1908	1925	rBV4	208145	656169	4.77%	0.683%
31	7.431	1964	1972	1987	rVB5	100232	237258	1.73%	0.247%
32	7.527	1987	2002	2005	rBV2	504956	862795	6.28%	0.898%
33	7.559	2007	2012	2028	rVB	798923	1349842	9.82%	1.405%
34	7.704	2045	2057	2072	rBV2	274556	726177	5.28%	0.756%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

35	7.845	2091	2101	2111	rBV4	164618	323449	2.35%	0.337%
36	7.913	2111	2122	2142	rVB	559365	1134851	8.26%	1.181%
37	8.042	2145	2162	2170	rBV2	363237	686095	4.99%	0.714%
38	8.090	2170	2177	2193	rVB	205357	350352	2.55%	0.365%
39	8.312	2236	2246	2260	rBV	738737	1356534	9.87%	1.412%
40	8.482	2291	2299	2310	rVB5	183289	343852	2.50%	0.358%
41	8.601	2327	2336	2344	rBV	266303	407148	2.96%	0.424%
42	8.755	2371	2384	2399	rBV5	144061	308715	2.25%	0.321%
43	8.842	2400	2411	2426	rBV5	99668	247391	1.80%	0.258%
44	9.029	2453	2469	2477	rBV6	92480	239678	1.74%	0.249%
45	9.086	2477	2487	2499	rVV	647303	1035134	7.53%	1.078%
46	9.180	2507	2516	2529	rVV3	186485	355850	2.59%	0.370%
47	9.373	2561	2576	2591	rVB3	134490	465940	3.39%	0.485%
48	9.566	2626	2636	2651	rVB2	119029	217613	1.58%	0.227%
49	9.713	2667	2682	2701	rBV5	155707	497285	3.62%	0.518%
50	9.948	2735	2755	2773	rBV4	246207	608451	4.43%	0.633%
51	10.041	2774	2784	2802	rVB8	110661	252543	1.84%	0.263%
52	10.160	2811	2821	2832	rBV	1090331	1704998	12.40%	1.775%
53	10.427	2895	2904	2916	rVV2	276367	506575	3.69%	0.527%
54	10.582	2943	2952	2978	rVB	752455	1183999	8.61%	1.232%
55	10.967	3062	3072	3094	rVB2	203889	375154	2.73%	0.391%
56	11.093	3101	3111	3120	rBV2	191041	304299	2.21%	0.317%
57	11.144	3120	3127	3138	rVV	112444	175364	1.28%	0.183%
58	11.289	3160	3172	3175	rBV	290896	443562	3.23%	0.462%
59	11.318	3176	3181	3199	rVB	511327	790050	5.75%	0.822%
60	11.479	3221	3231	3249	rBV	724165	1200148	8.73%	1.249%
61	11.566	3250	3258	3268	rVV	235467	341939	2.49%	0.356%
62	11.684	3282	3295	3305	rVB	154096	272610	1.98%	0.284%
63	11.762	3305	3319	3338	rBV	8192950	13745667	100.00%	14.309%
64	11.858	3338	3349	3372	rVV4	1361776	2526227	18.38%	2.630%
65	11.977	3375	3386	3399	rVV	367306	594759	4.33%	0.619%
66	12.051	3399	3409	3422	rVB	391036	613109	4.46%	0.638%
67	12.247	3455	3470	3474	rBV	585864	888944	6.47%	0.925%
68	12.279	3474	3480	3491	rVB	1021981	1572767	11.44%	1.637%
69	12.350	3491	3502	3522	rBV	1863457	3296656	23.98%	3.432%
70	12.537	3552	3560	3575	rVB2	305994	586036	4.26%	0.610%
71	12.646	3575	3594	3603	rBV	1297213	2206917	16.06%	2.297%

LSC Area Percent Report

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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

72	12.697	3603	3610	3626	rVB	604481	984412	7.16%	1.025%
73	12.784	3626	3637	3656	rBV3	423369	726445	5.28%	0.756%
74	12.919	3669	3679	3684	rBV	304263	488355	3.55%	0.508%
75	12.958	3684	3691	3699	rVB	805495	1077742	7.84%	1.122%
76	13.118	3719	3741	3754	rBV3	2995615	5279832	38.41%	5.496%
77	13.189	3756	3763	3771	rVV5	155534	262316	1.91%	0.273%
78	13.234	3771	3777	3787	rVV	131911	218608	1.59%	0.228%
79	13.401	3819	3829	3837	rBV2	439781	730178	5.31%	0.760%
80	13.453	3837	3845	3852	rVB	415340	584394	4.25%	0.608%
81	13.504	3852	3861	3869	rBV3	820303	1349983	9.82%	1.405%
82	13.575	3877	3883	3886	rBV	313990	382669	2.78%	0.398%
83	13.604	3886	3892	3914	rVB2	1104155	1951958	14.20%	2.032%
84	13.729	3915	3931	3940	rBV4	157056	376271	2.74%	0.392%
85	13.784	3941	3948	3960	rVB2	134460	243297	1.77%	0.253%
86	13.852	3960	3969	3983	rVB3	168583	301118	2.19%	0.313%
87	13.951	3984	4000	4010	rBV4	433473	887873	6.46%	0.924%
88	14.009	4011	4018	4027	rVB4	260010	388362	2.83%	0.404%
89	14.147	4050	4061	4076	rBV	444518	771911	5.62%	0.804%
90	14.331	4107	4118	4130	rBV2	403374	800156	5.82%	0.833%
91	14.472	4154	4162	4171	rBV2	245148	363474	2.64%	0.378%
92	14.536	4172	4182	4194	rVB4	415010	796513	5.79%	0.829%
93	14.678	4214	4226	4239	rBV5	242101	572050	4.16%	0.595%
94	14.816	4260	4269	4275	rBV3	124017	204389	1.49%	0.213%
95	14.858	4275	4282	4295	rVV4	156087	347267	2.53%	0.361%
96	14.932	4296	4305	4319	rVB6	143191	313048	2.28%	0.326%
97	15.061	4335	4345	4358	rVV3	302316	639762	4.65%	0.666%
98	15.585	4495	4508	4524	rVB3	118012	258778	1.88%	0.269%
99	15.832	4570	4585	4596	rBV2	133008	268067	1.95%	0.279%
100	16.057	4646	4655	4662	rBV2	128502	207904	1.51%	0.216%

Sum of corrected areas: 96066239

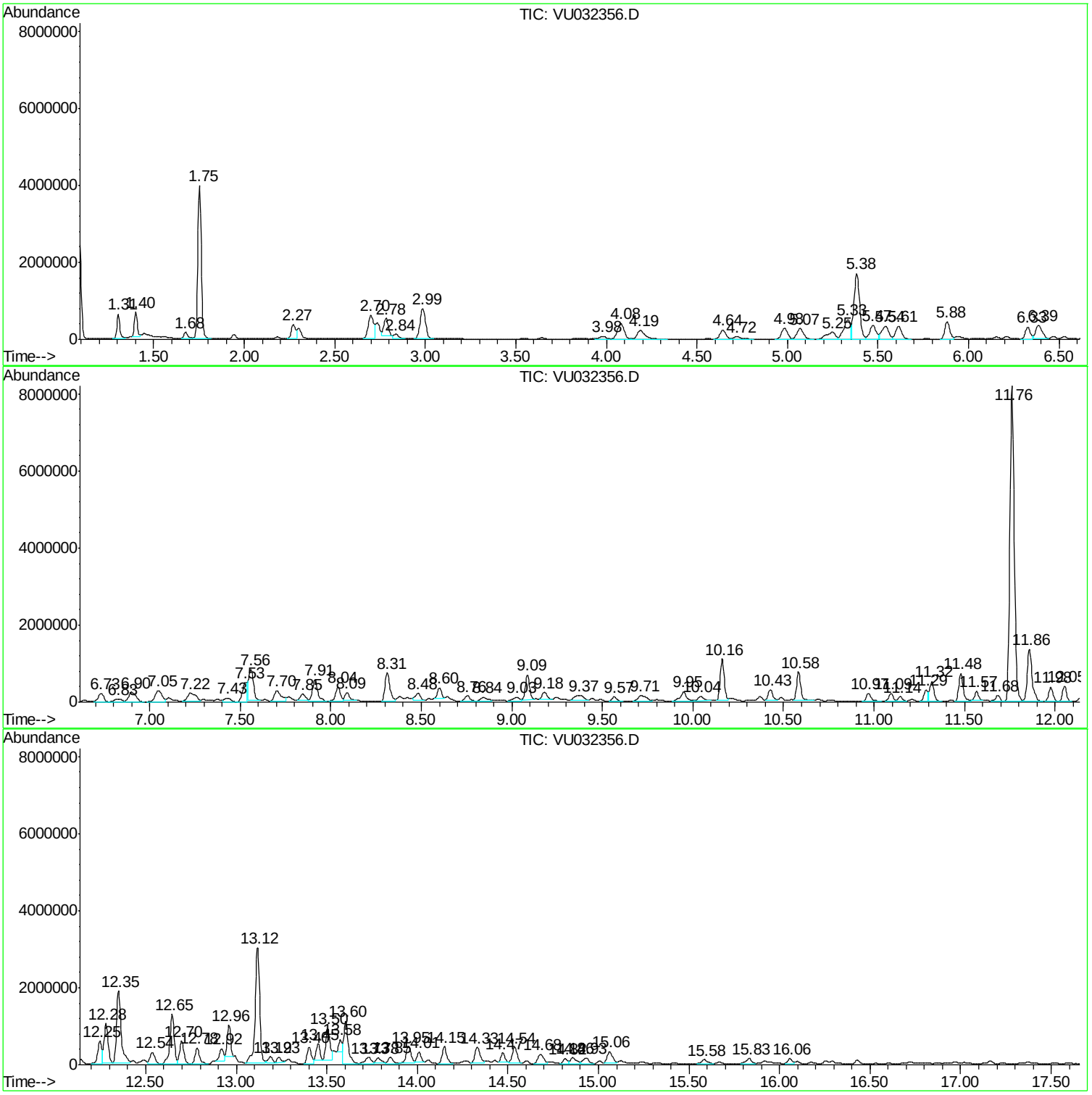
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

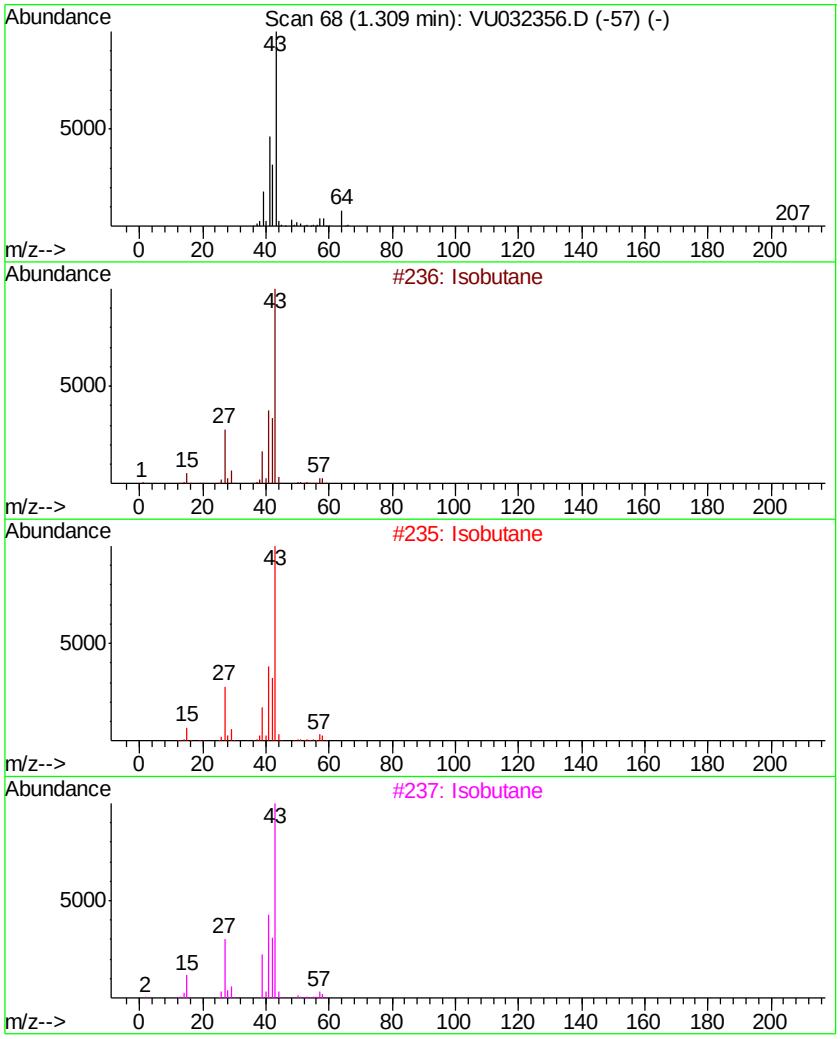
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

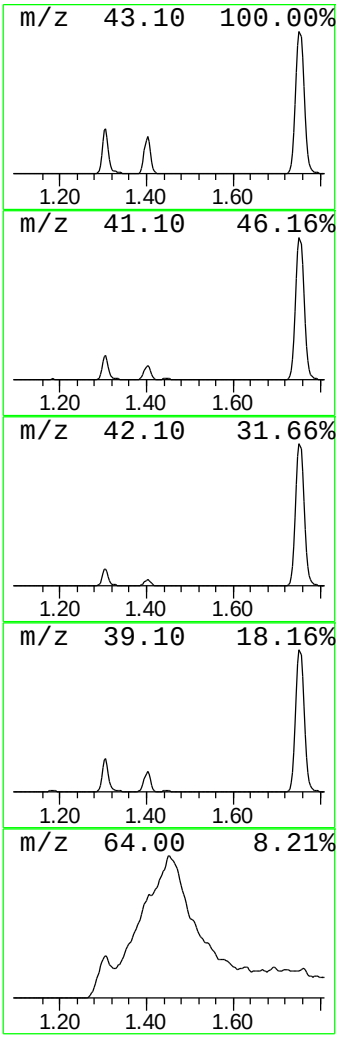
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.31	4.10 ug/L	750043	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	72
2	Isobutane	58	C4H10	000075-28-5	72
3	Isobutane	58	C4H10	000075-28-5	64
4	Isobutane	58	C4H10	000075-28-5	53
5	Isopropylsulfonyl chloride	142	C3H7ClO2S	010147-37-2	25





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

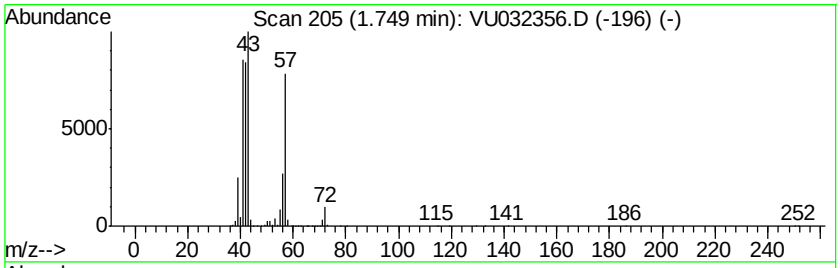
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

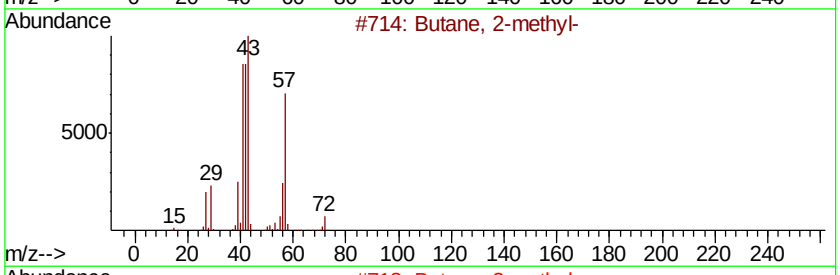
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

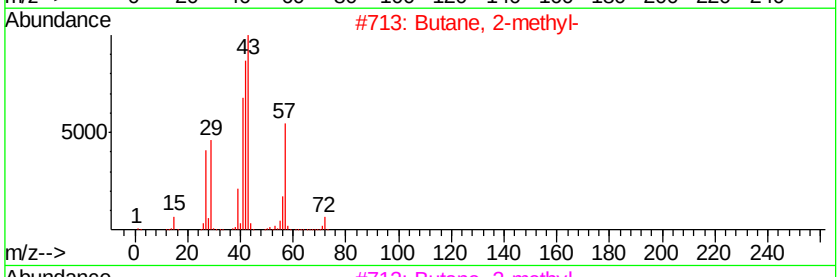
****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 2

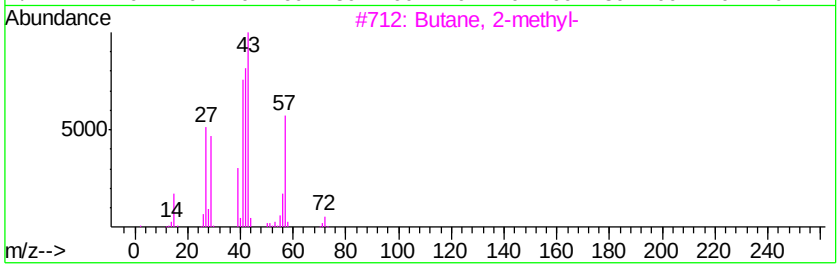
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	29.29 ug/L	5354030	1,4-Difluorobenzene	5.88

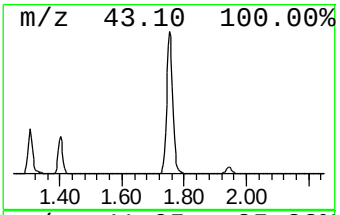
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	94
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	86
4	Pentane	72	C5H12	000109-66-0	42
5	Pentane	72	C5H12	000109-66-0	38

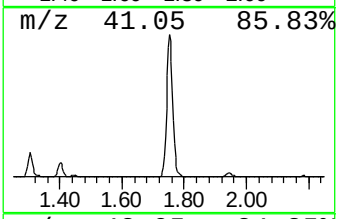


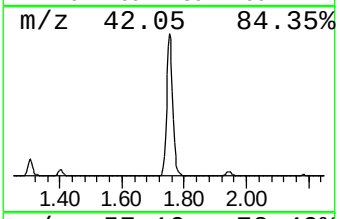


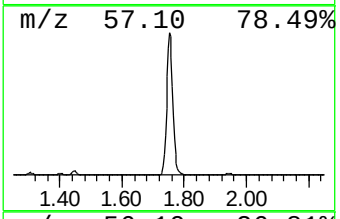


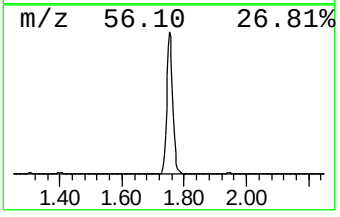












Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

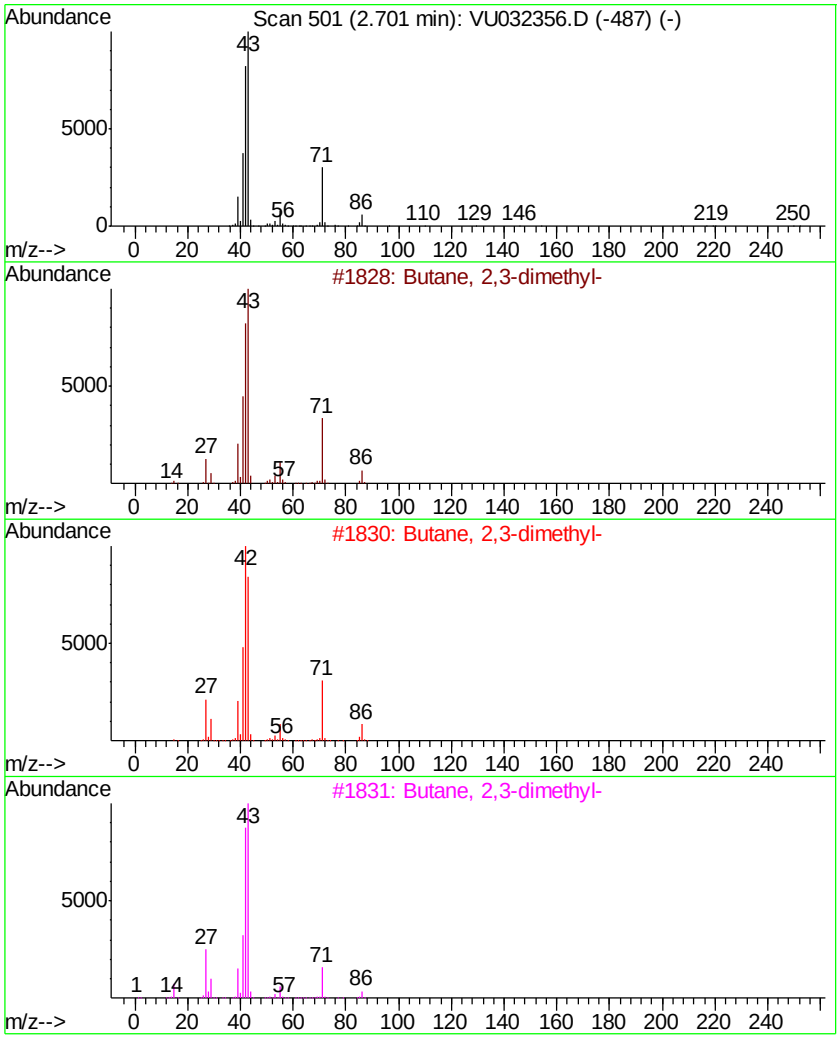
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

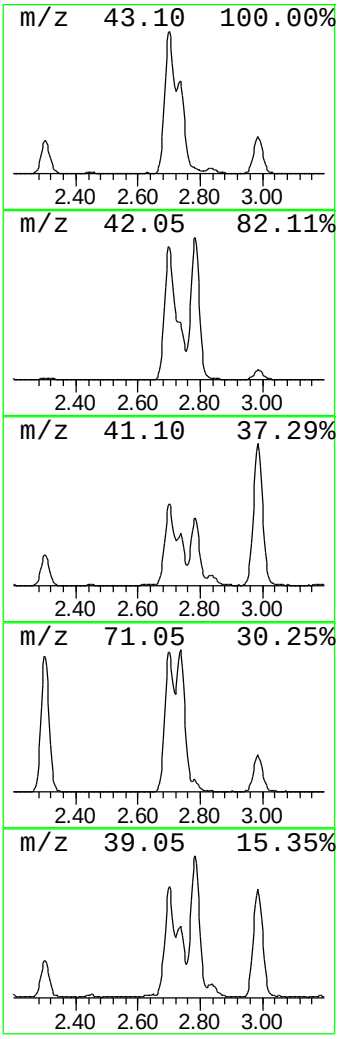
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	6.70 ug/L	1224870	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	91
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

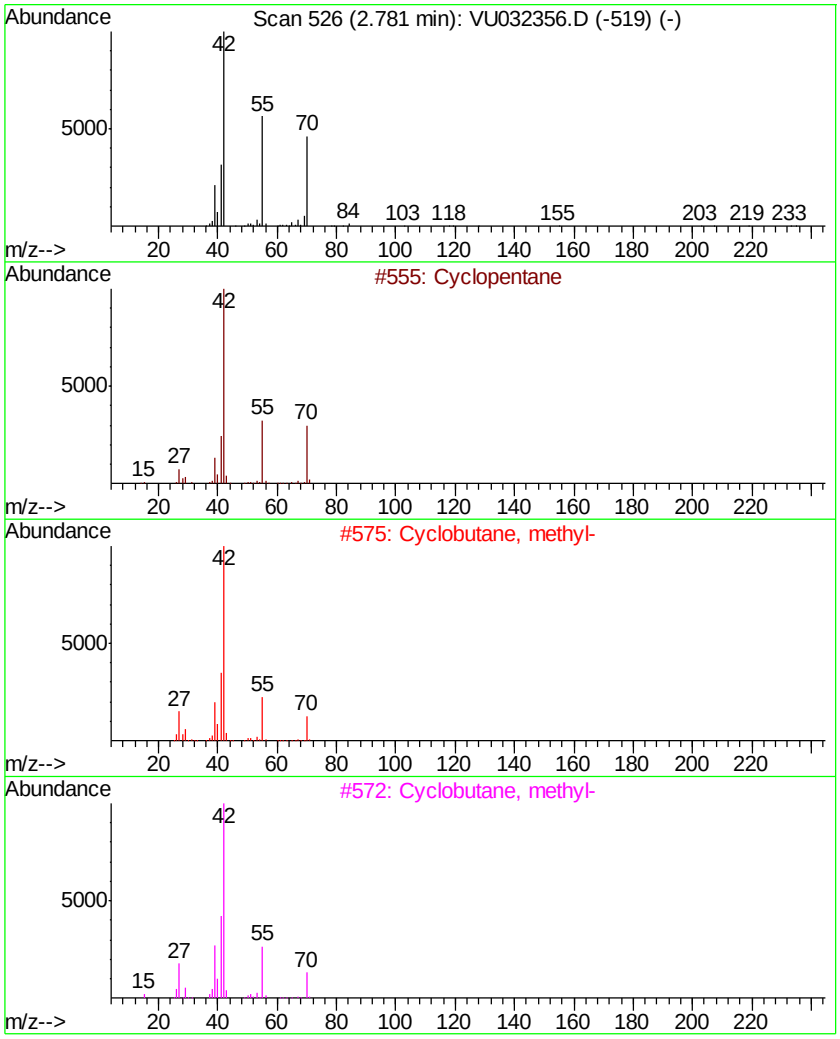
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

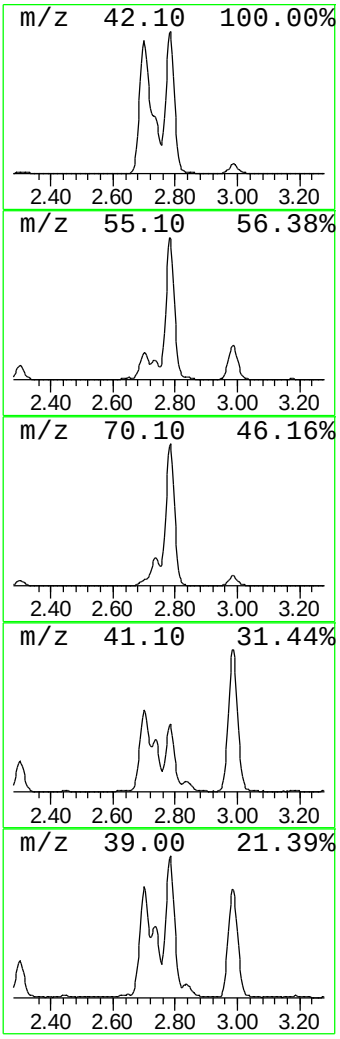
****

Peak Number 4 (DEL) Alkane: Cyclic2.78 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.78	4.34 ug/L	792848	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	86
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	72
4	1-Pentene	70	C5H10	000109-67-1	72
5	1-Pentanol	88	C5H12O	000071-41-0	40





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

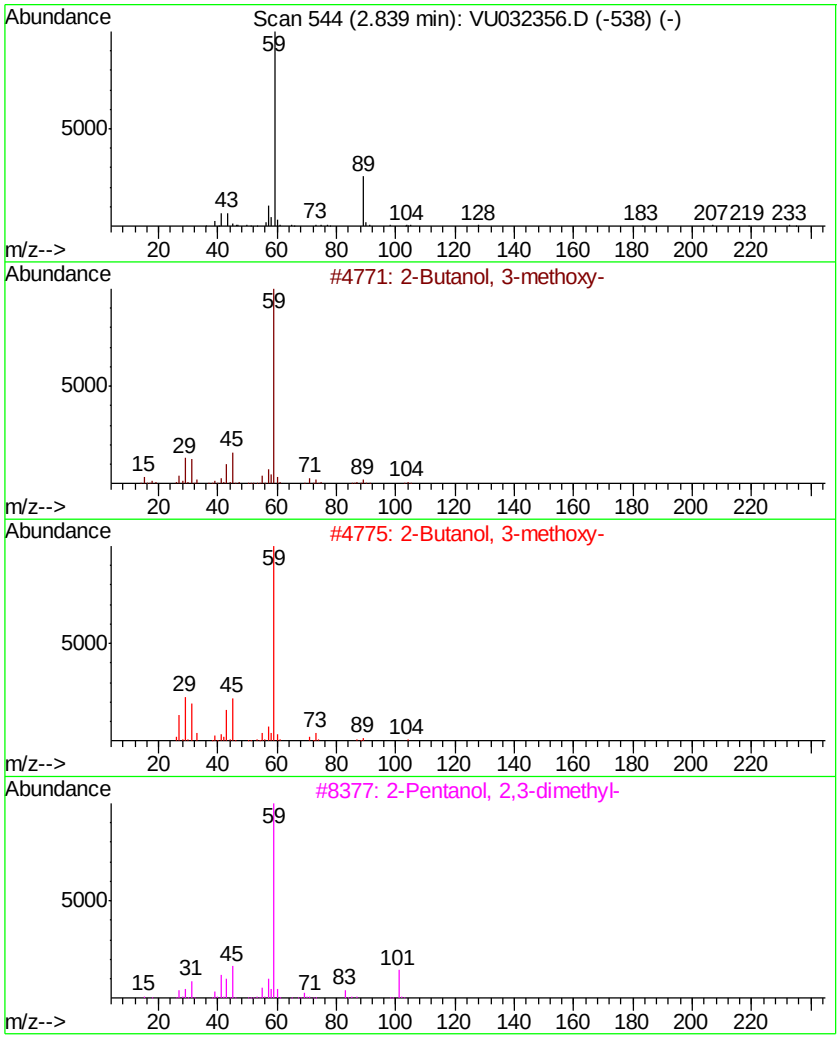
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

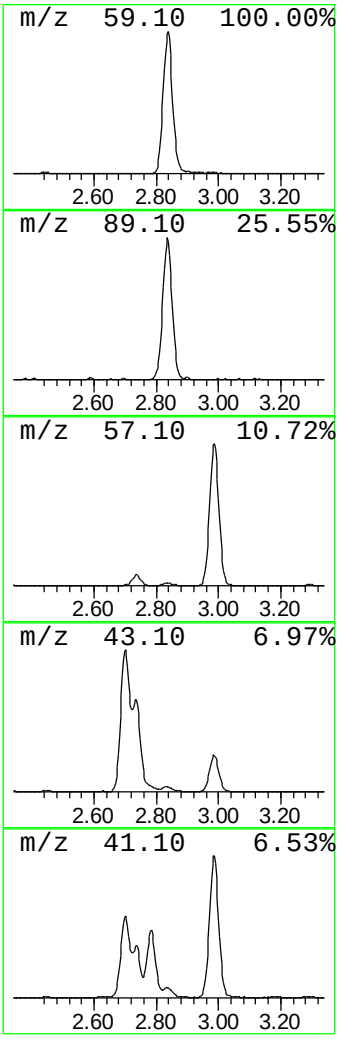
****

Peak Number 5 2-Butanol, 3-methoxy- Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.84	1.20 ug/L	218470	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	64
2	2-Butanol, 3-methoxy-	104	C5H12O2	053778-72-6	39
3	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	38
4	2-Propanol, 1-methoxy-2-methyl-	104	C5H12O2	003587-64-2	9
5	2-Butanol, 1-methoxy-	104	C5H12O2	053778-73-7	9





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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

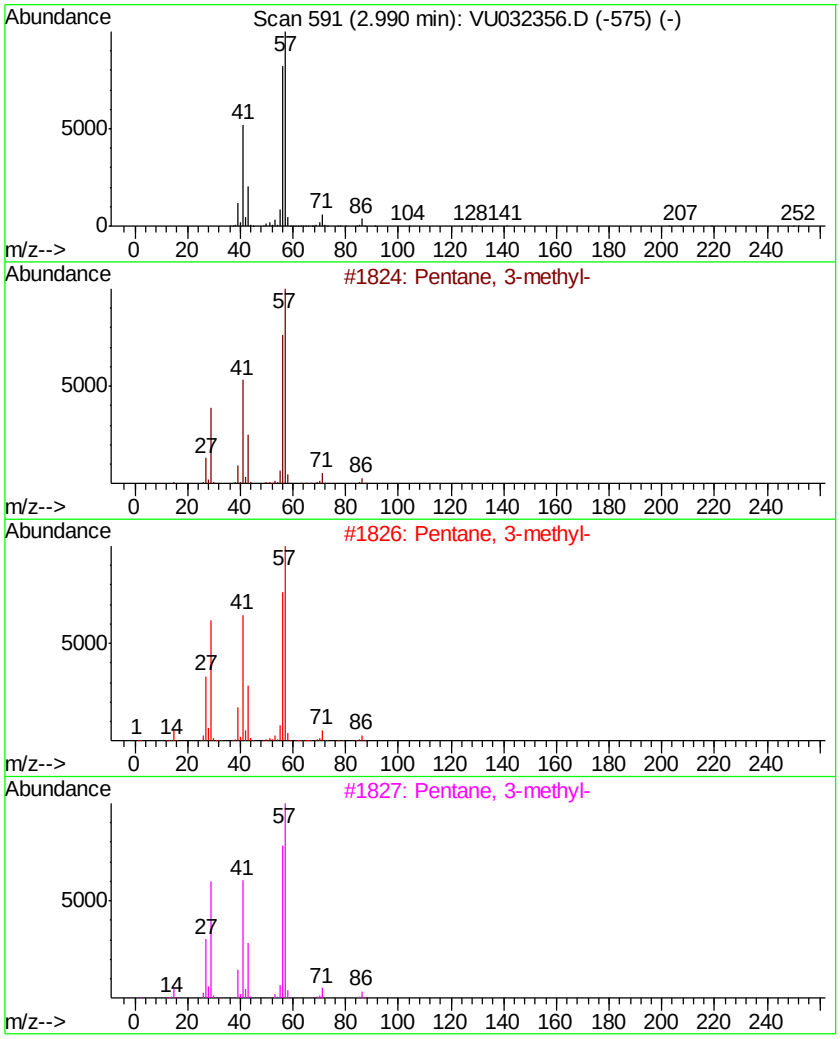
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

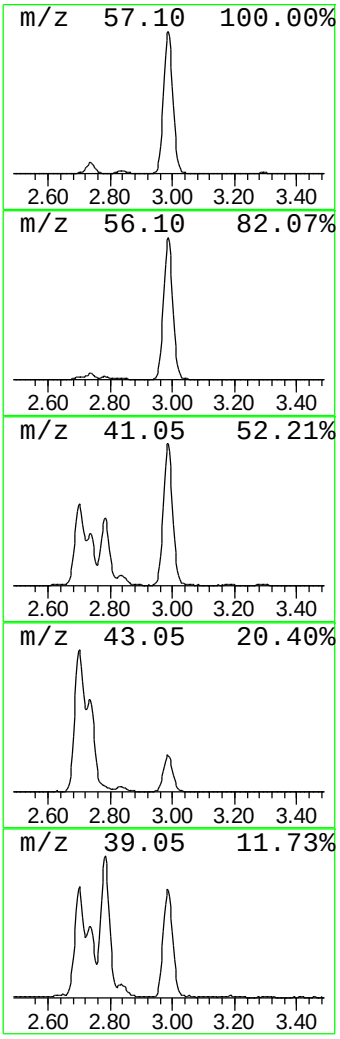
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	8.84 ug/L	1615640	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	78
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

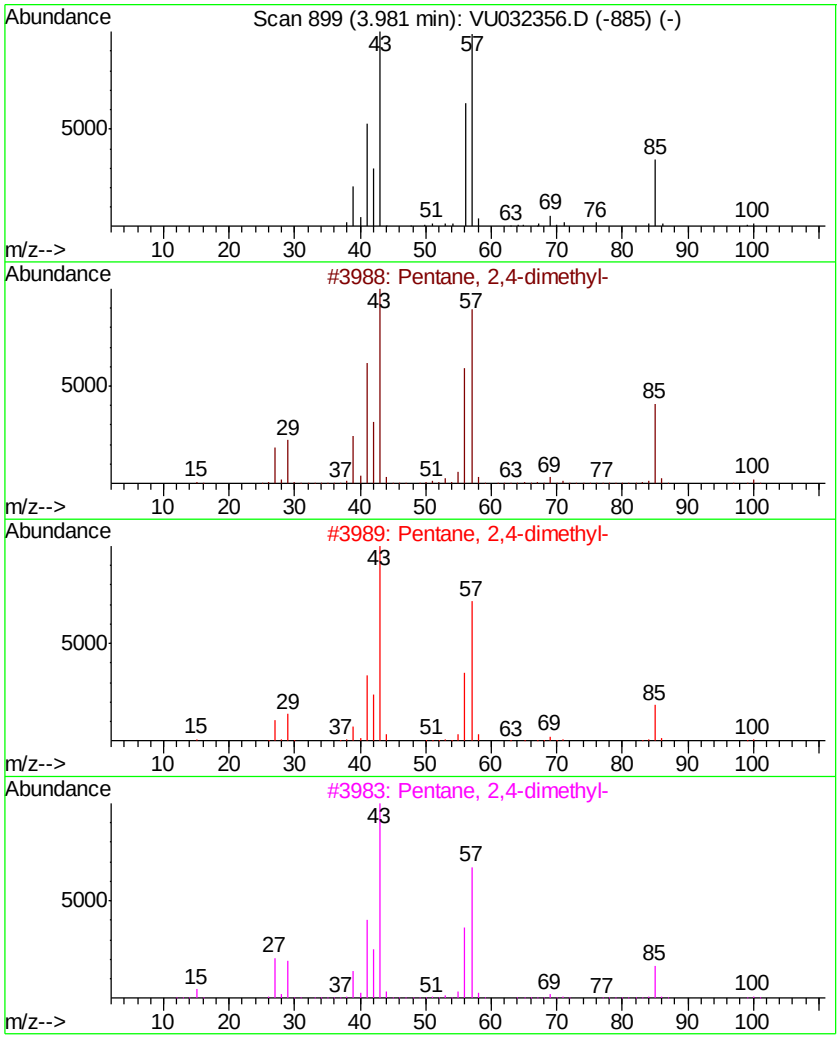
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

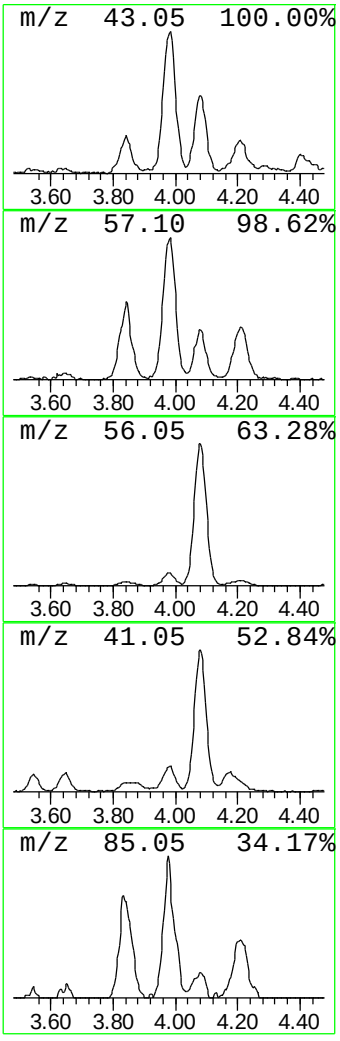
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 76

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	0.96 ug/L	175189	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	58
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	53
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

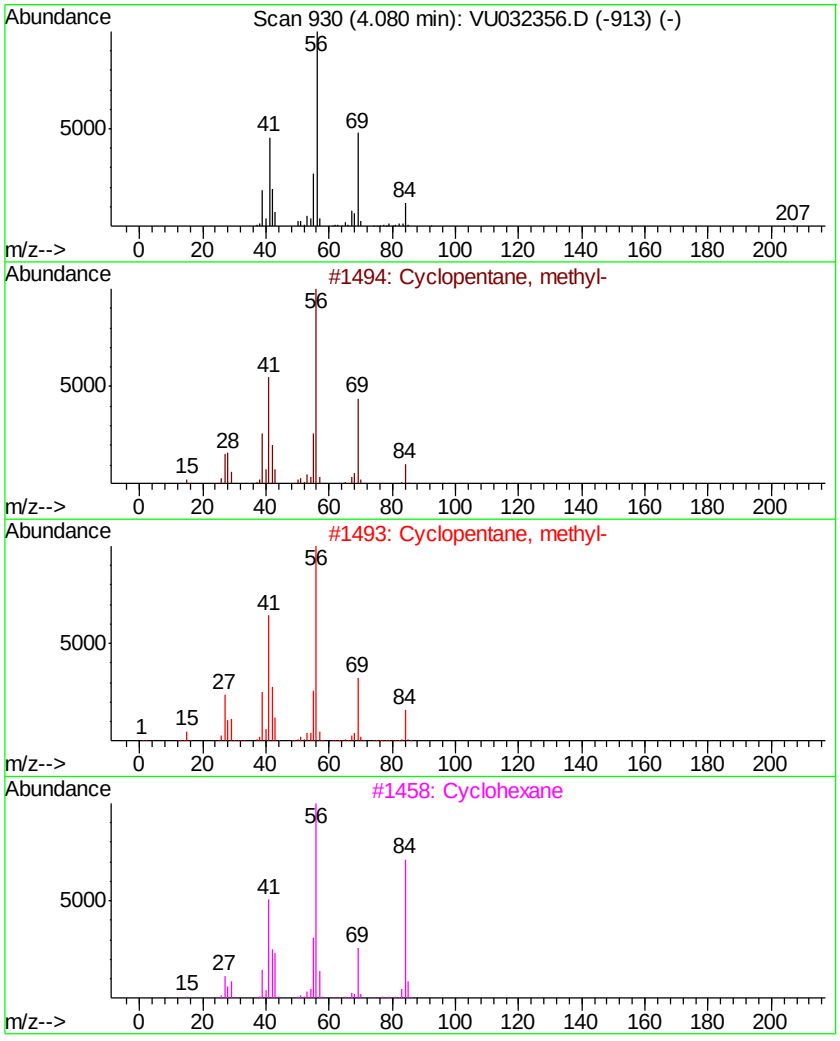
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

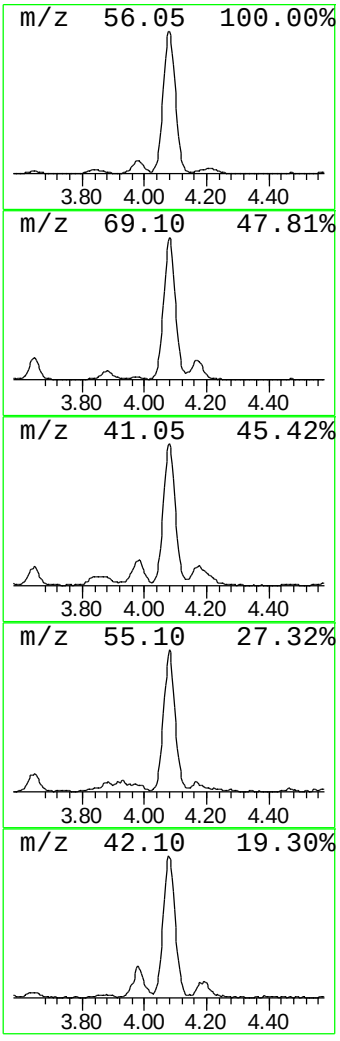
****

Peak Number 8 (DEL) Alkane: Cyclic4.08 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.08	5.78 ug/L	1056830	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3	Cyclohexane	84	C6H12	000110-82-7	78
4	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
5	Cyclobutane, ethyl-	84	C6H12	004806-61-5	59





Library Search Compound Report

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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

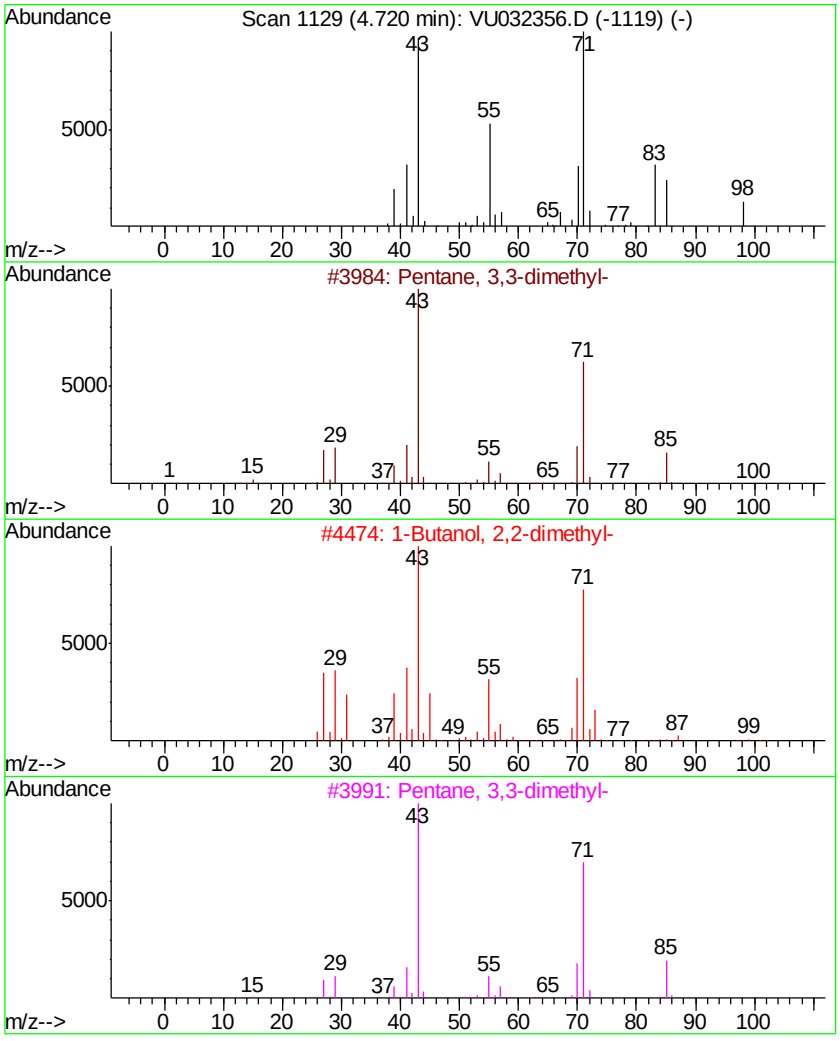
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

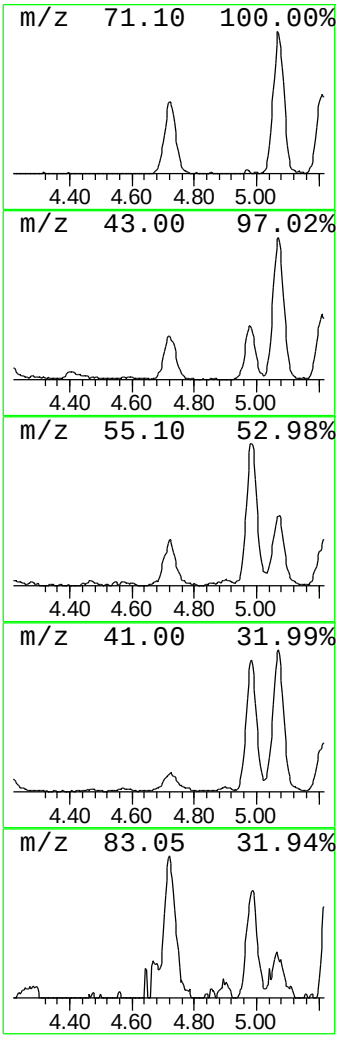
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	1.18 ug/L	215557	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	59
2	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	50
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	45
4	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	40
5	Butane, 2-bromo-2-methyl-	150	C5H11Br	000507-36-8	40





Library Search Compound Report

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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

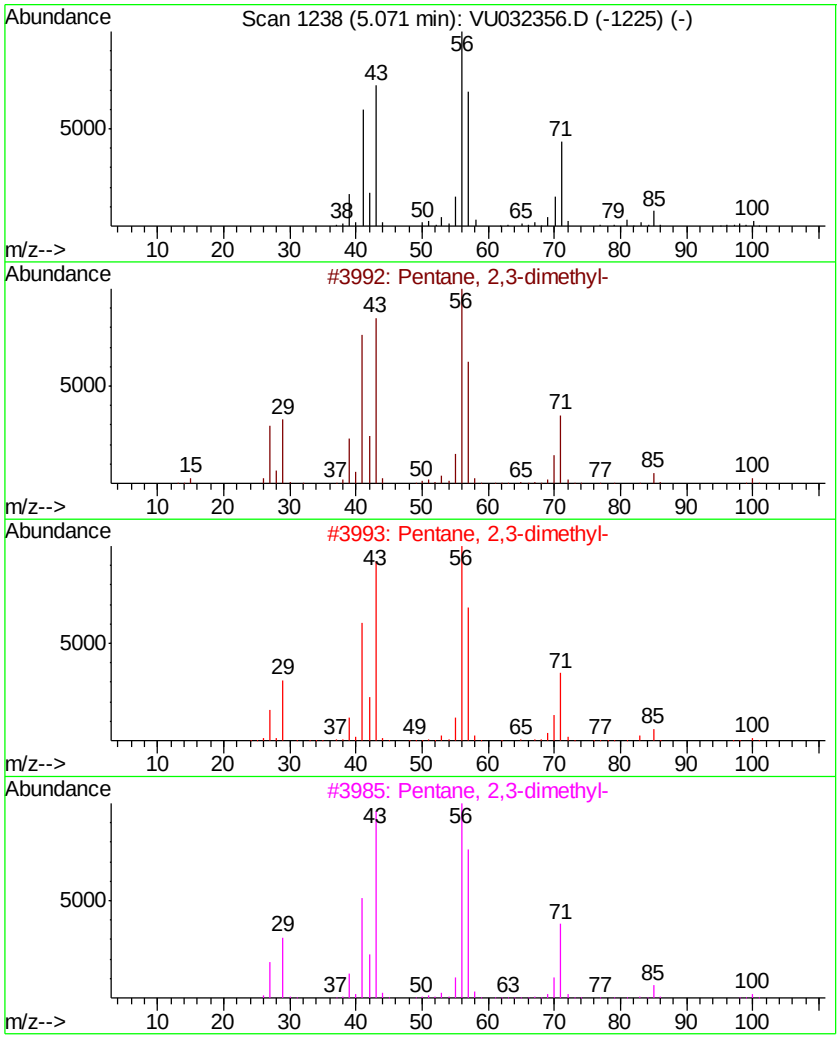
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

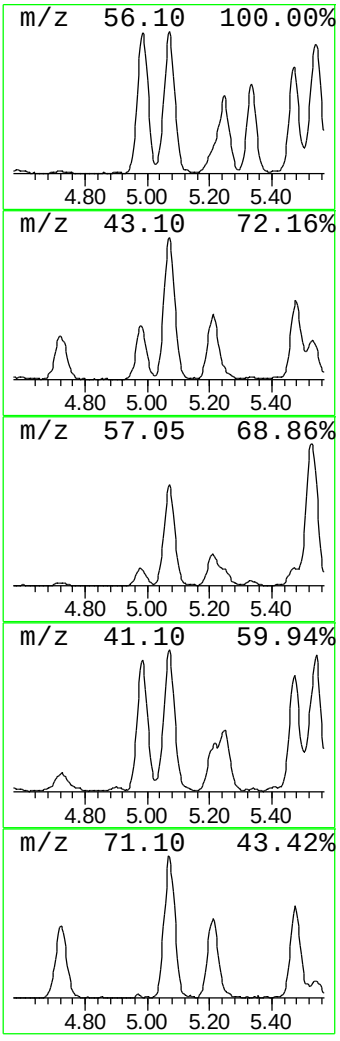
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	3.86 ug/L	705237	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	46





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

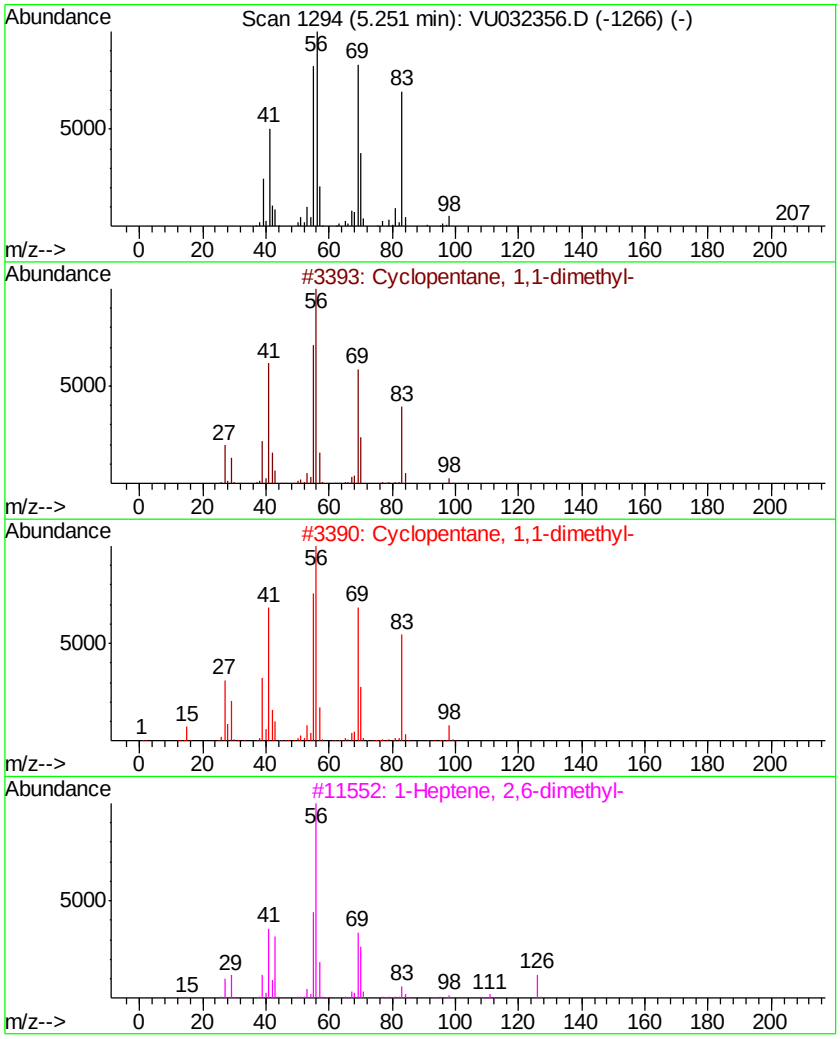
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

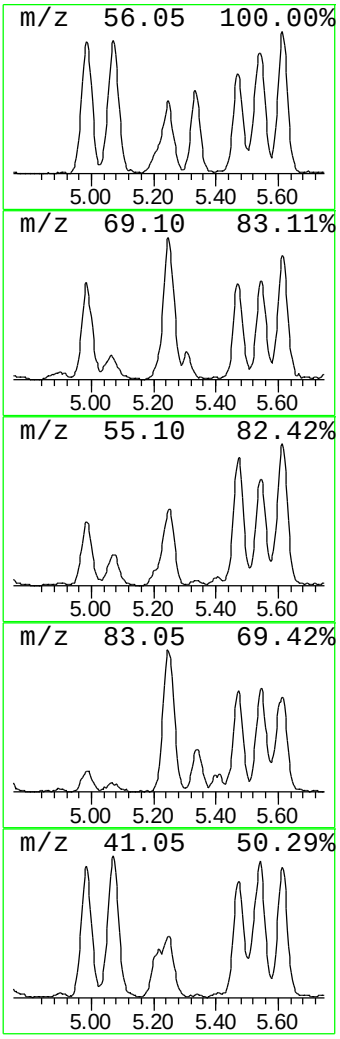
****

Peak Number 11 (DEL) Alkane: Cyclic5.25 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.25	3.67 ug/L	670832	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	91
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
3	1-Heptene, 2,6-dimethyl-	126	C9H18	003074-78-0	38
4	3-Hexene, 2-methyl-, (Z)-	98	C7H14	015840-60-5	38
5	3-Hexene, 3-methyl-, (Z)-	98	C7H14	004914-89-0	35





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

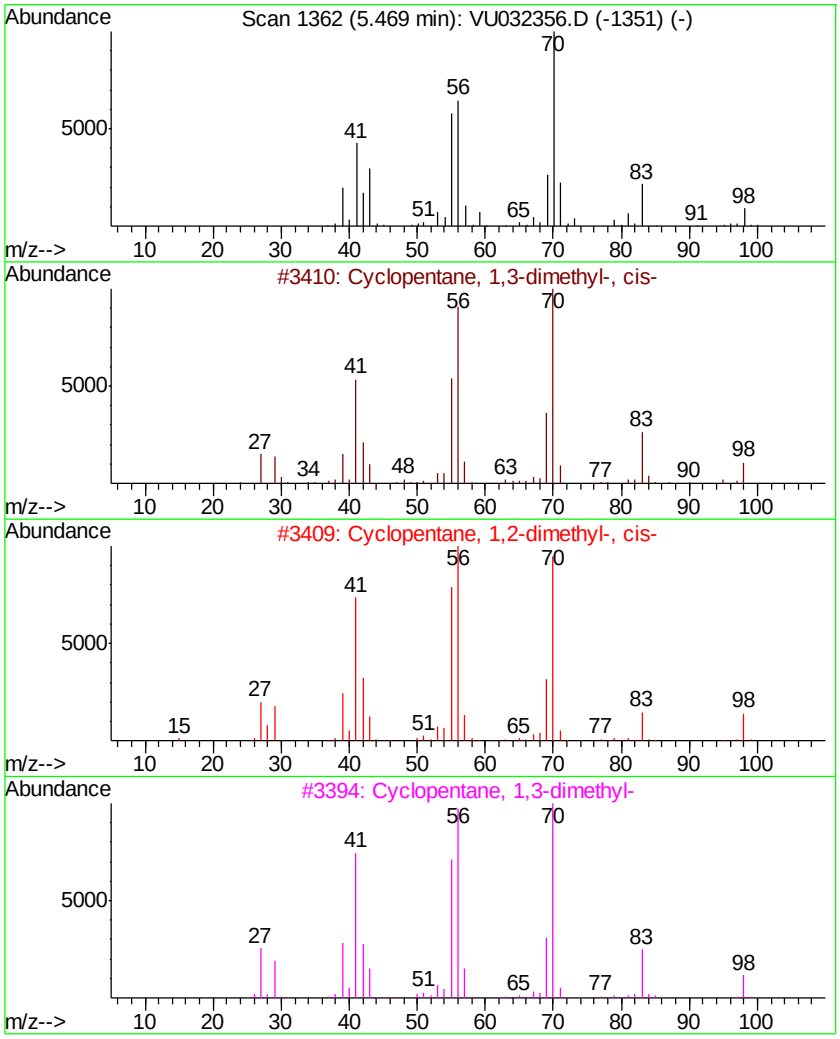
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

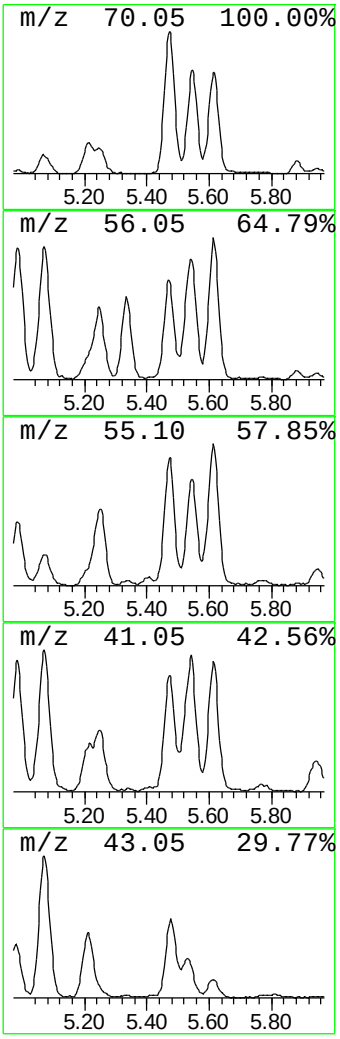
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 (DEL) Alkane: Cyclic5.47 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.47	4.91 ug/L	897904	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	80
2	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	53
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	53
4	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	52
5	1-Heptene, 5-methyl-	112	C8H16	013151-04-7	50





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

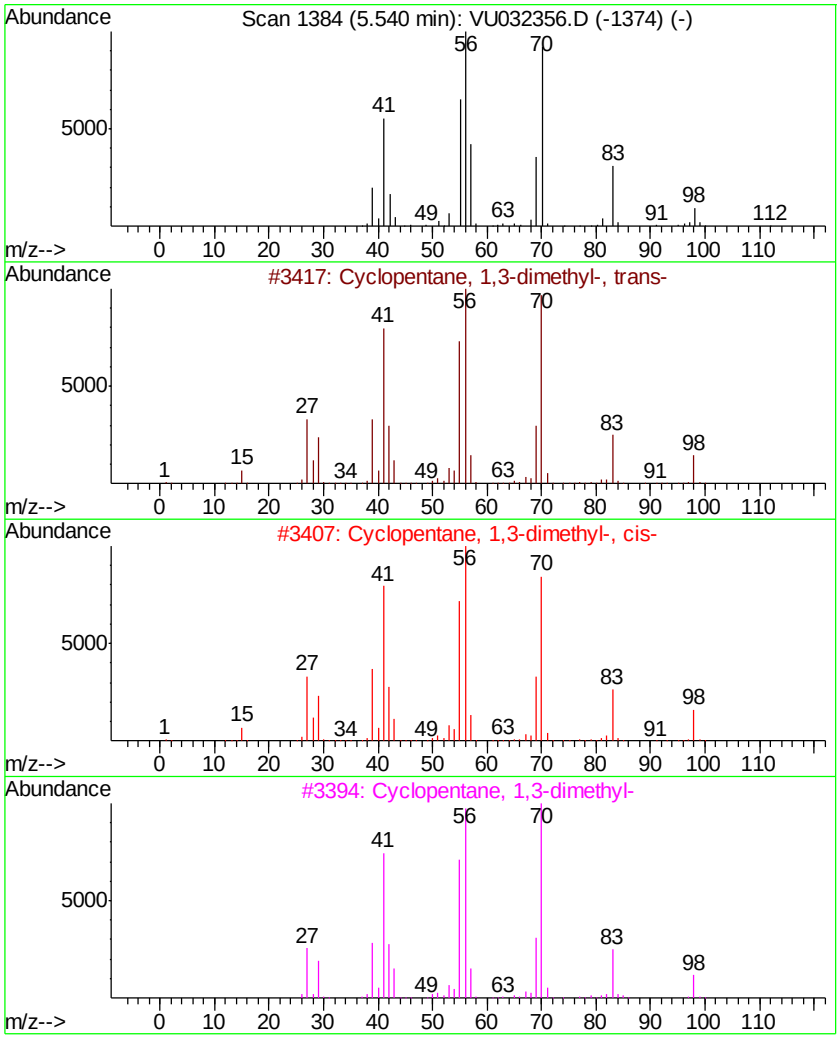
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

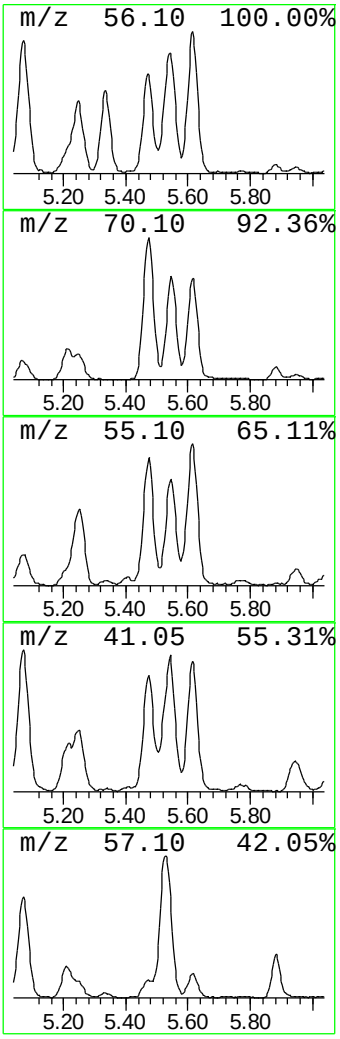
****

Peak Number 13 (DEL) Alkane: Cyclic5.54 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.54	4.85 ug/L	885822	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, trans-	98	C7H14	001759-58-6	91
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	91
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	91
4	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	86





Library Search Compound Report

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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

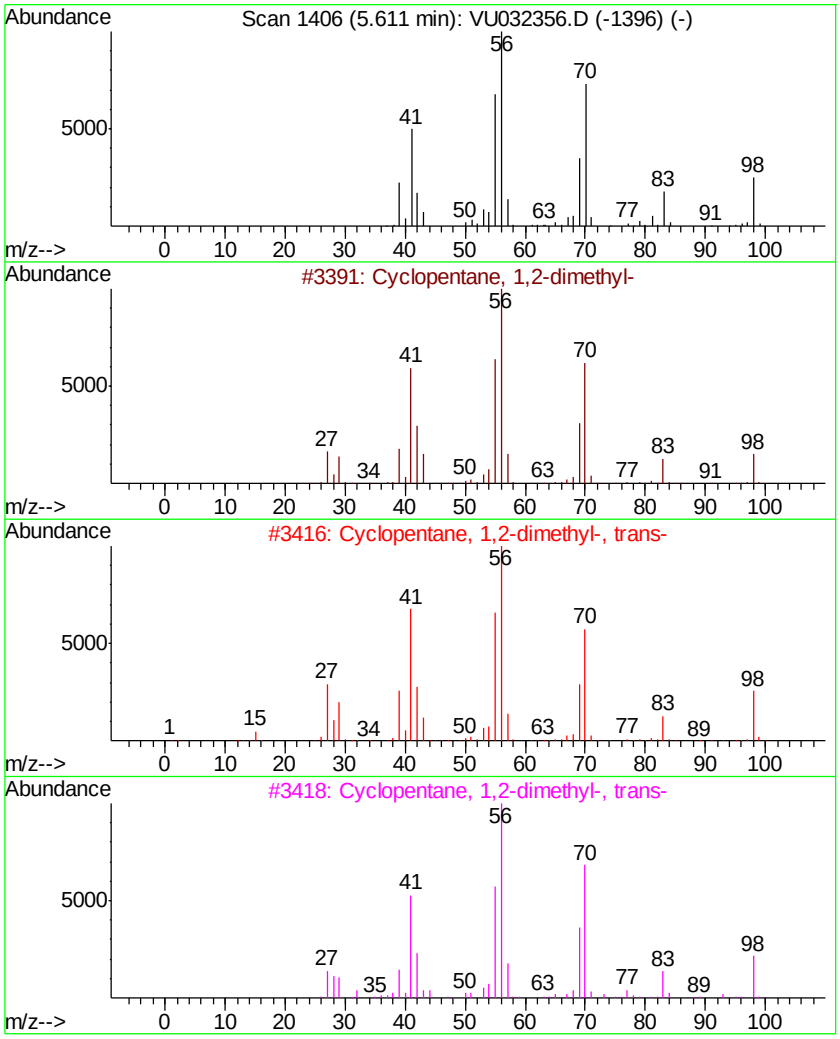
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

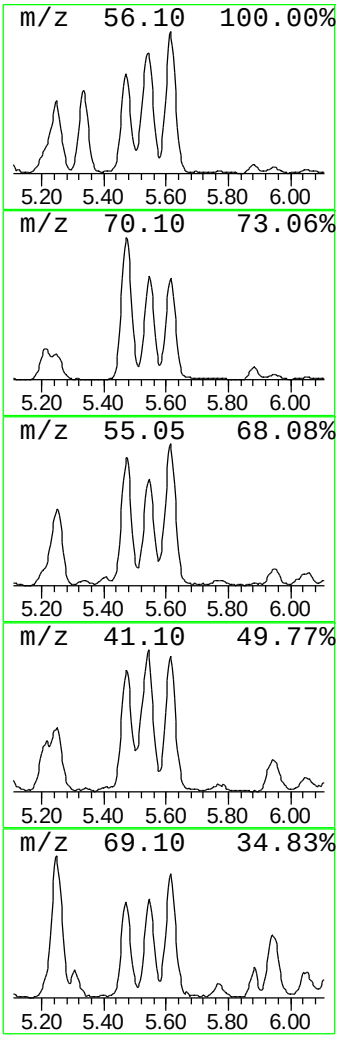
****

Peak Number 14 (DEL) Alkane: Cyclic5.61 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.61	4.26 ug/L	779080	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	91
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
4	Isopropylcyclobutane	98	C7H14	000872-56-0	90
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	86





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

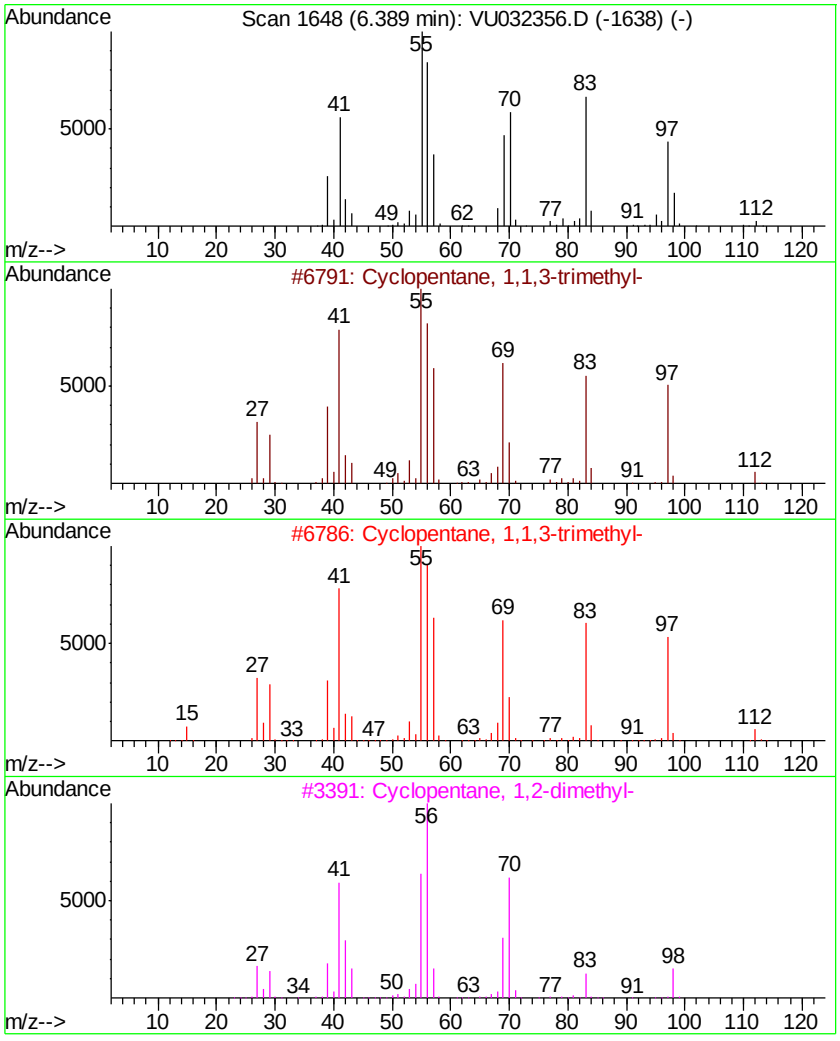
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

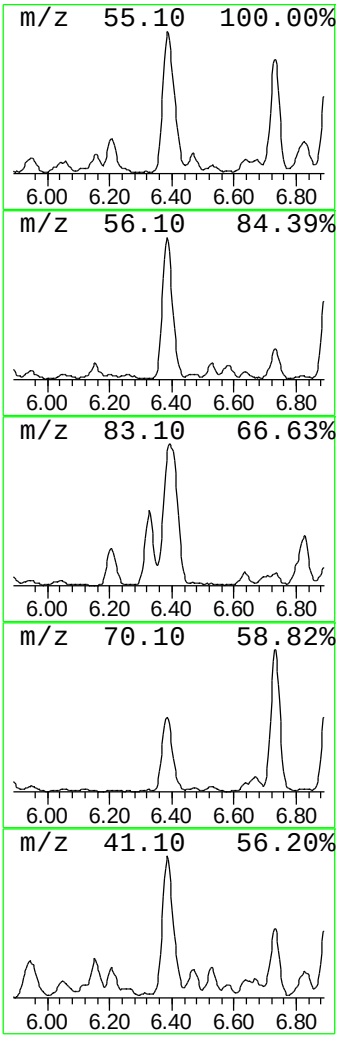
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 (DEL) Alkane: Cyclic6.39 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.39	4.77 ug/L	871810	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	49
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	49
3	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	47
4	Isopropylcyclobutane	98	C7H14	000872-56-0	46
5	1H-1,2,4-Triazole, 3-methyl-	83	C3H5N3	007170-01-6	43





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

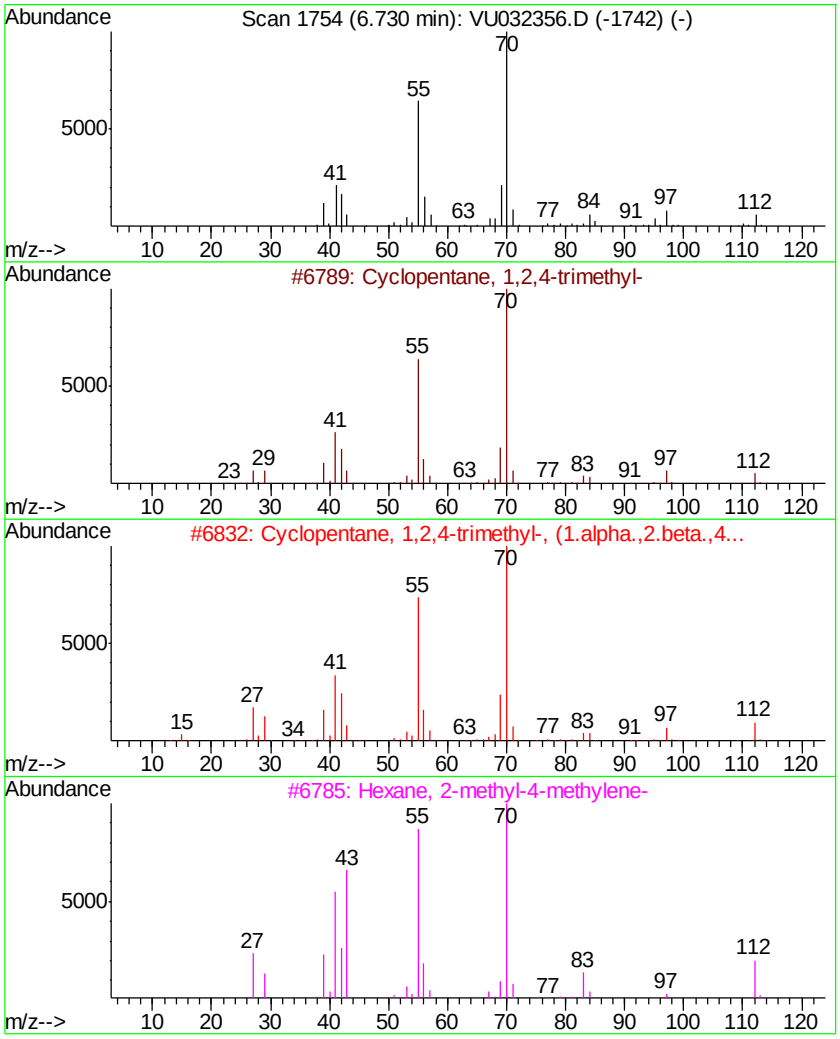
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

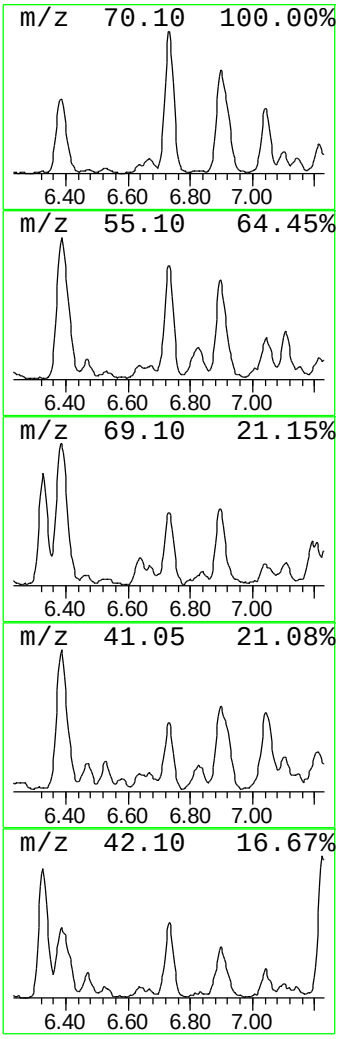
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 (DEL) Alkane: Cyclic6.73 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	2.48 ug/L	453713	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	90
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	87
3	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	86
4	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	86
5	Tridecane, 3-methylene-	196	C14H28	019780-34-8	64





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

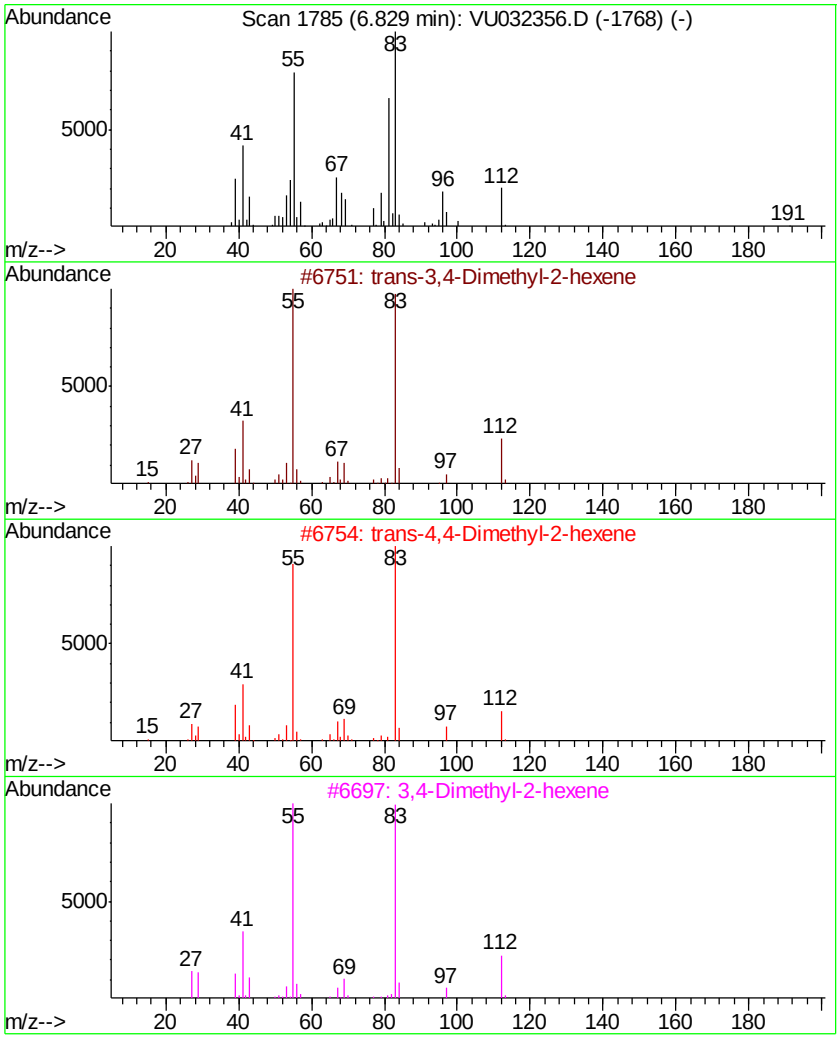
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

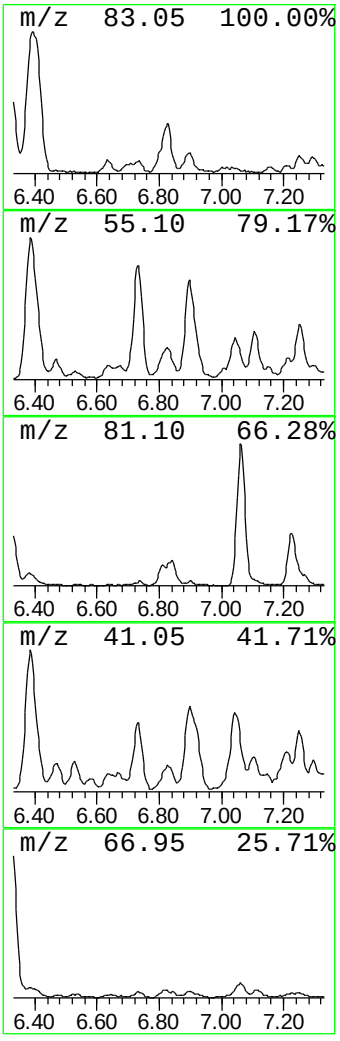
****

Peak Number 17 (DEL) Alkane: Cyclic6.83 Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.83	1.15 ug/L	210606	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-3,4-Dimethyl-2-hexene	112	C8H16	019550-82-4	70
2	trans-4,4-Dimethyl-2-hexene	112	C8H16	019550-83-5	62
3	3,4-Dimethyl-2-hexene	112	C8H16	002213-37-8	58
4	2-Hexene, 2,4-dimethyl-	112	C8H16	014255-23-3	58
5	2H-Pyran-2-carboxaldehyde, 3,4-d...	112	C6H8O2	000100-73-2	52





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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

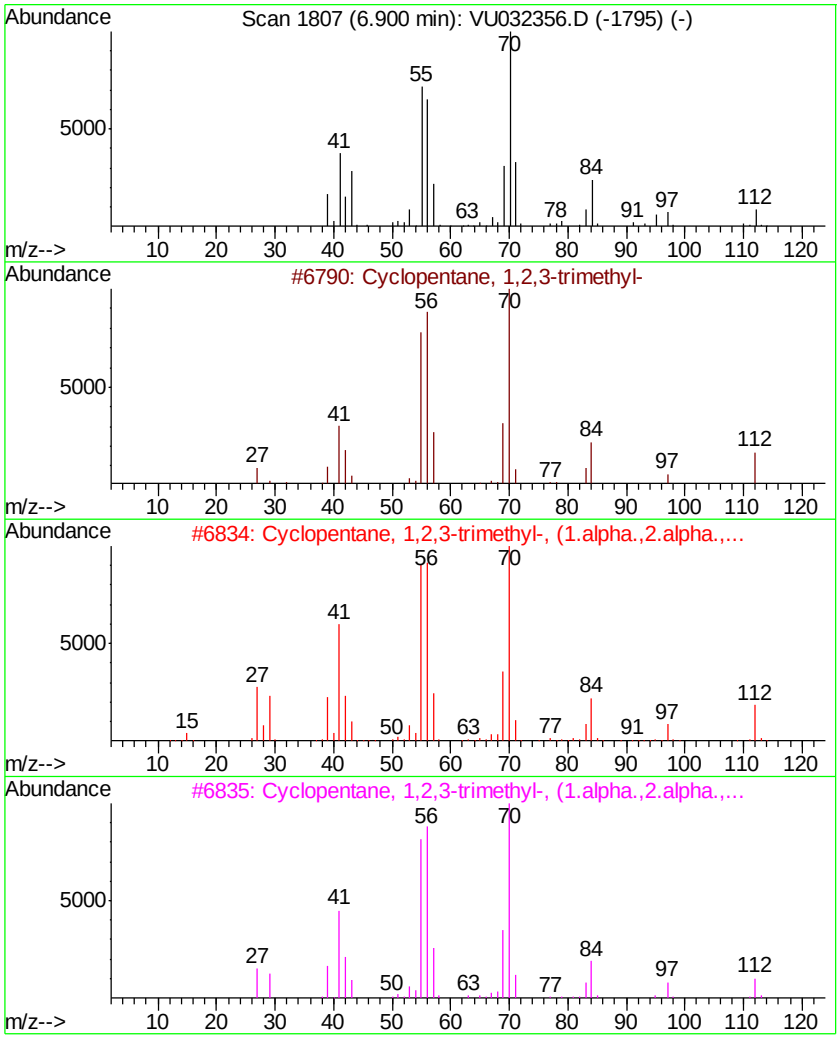
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

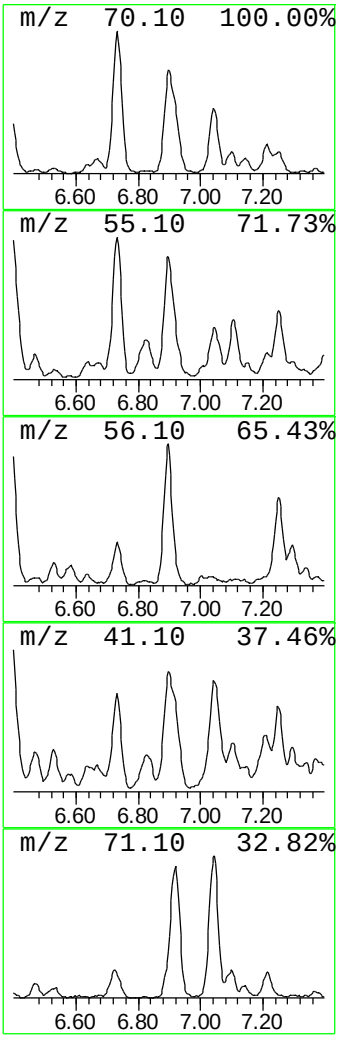
****

Peak Number 18 (DEL) Alkane: Cyclic6.90 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	3.77 ug/L	689685	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	90
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	90
3	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	87
4	1-Heptene, 3-methyl-	112	C8H16	004810-09-7	80
5	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	64





Library Search Compound Report

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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

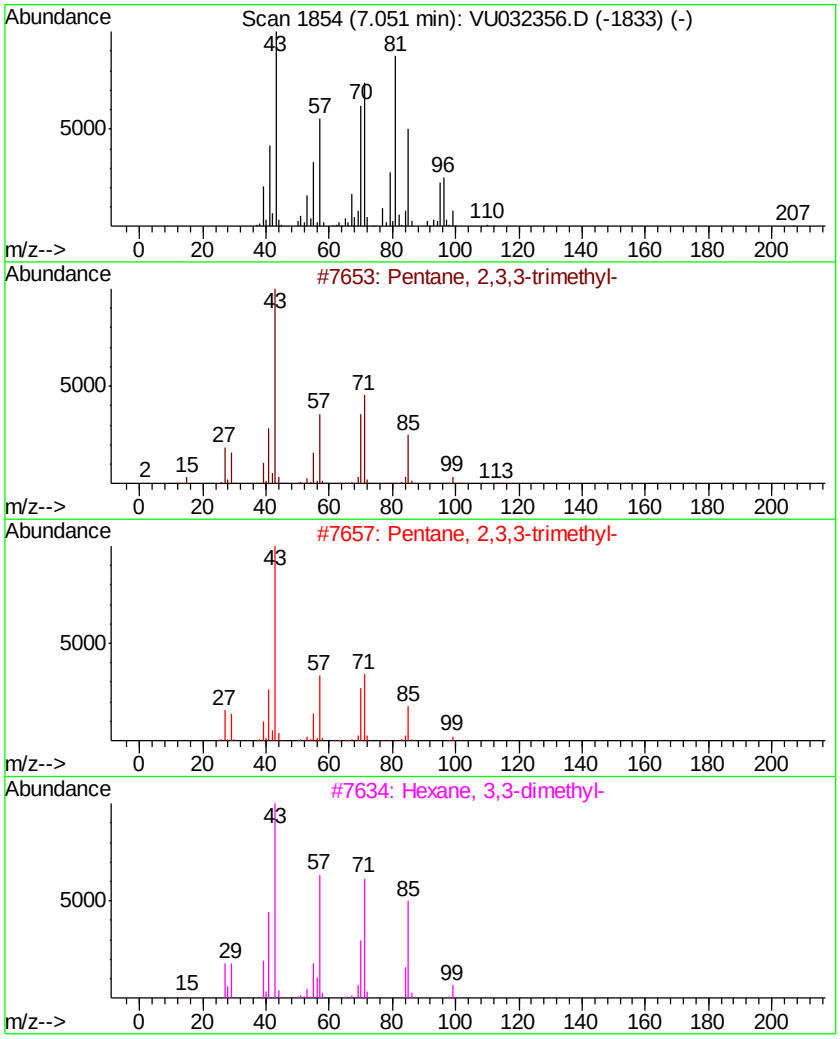
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

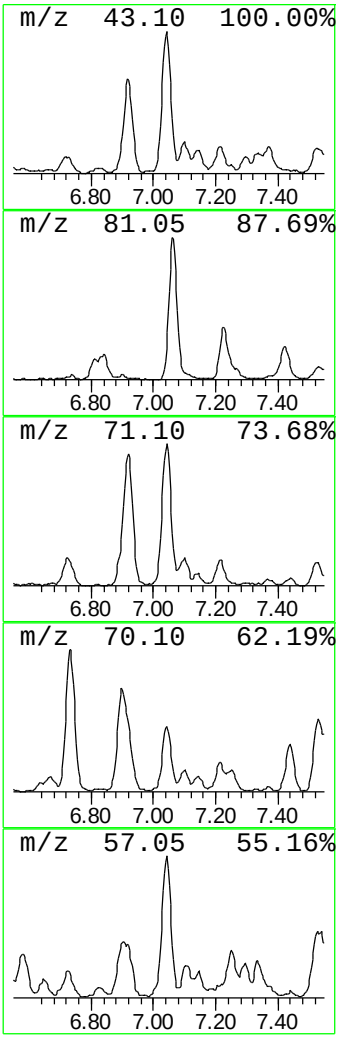
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.05	4.27 ug/L	780179	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	58
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	53
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	47
4	Hexanal, 4,4-dimethyl-	128	C8H16O	005932-91-2	43
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	43





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

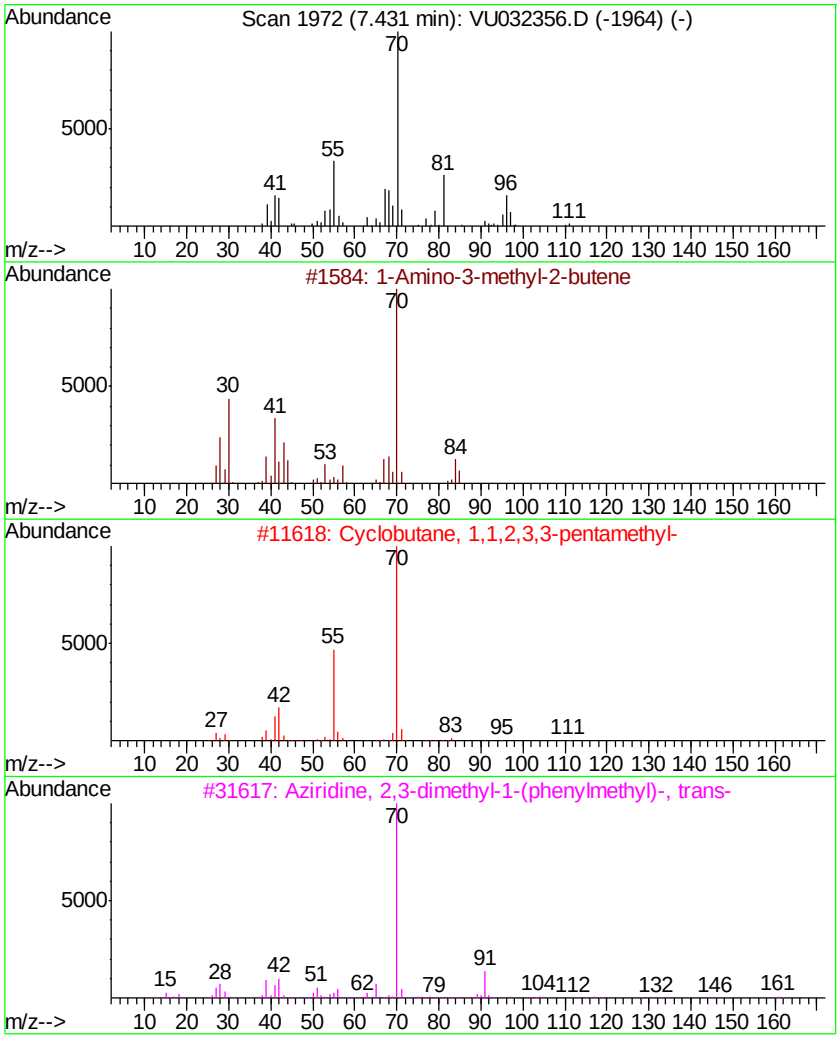
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

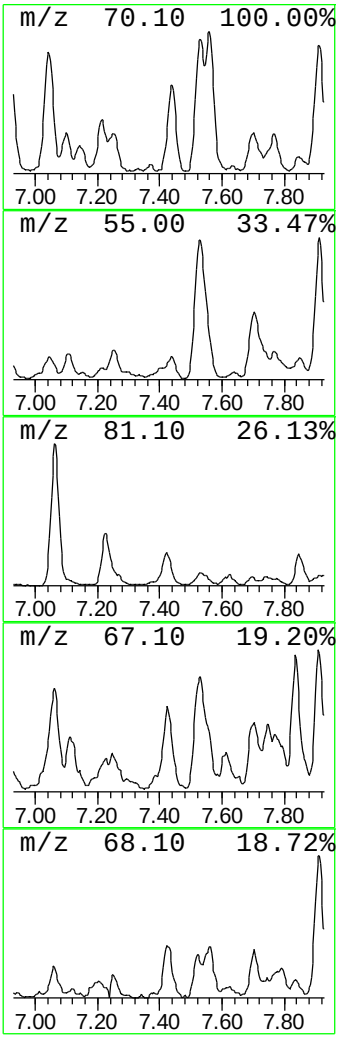
****

Peak Number 21 1-Amino-3-methyl-2-butene Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	1.30 ug/L	237258	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Amino-3-methyl-2-butene	85	C5H11N	013822-06-5	50
2	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	38
3	Aziridine, 2,3-dimethyl-1-(phenyl...	161	C11H15N	024432-52-8	28
4	2,6-Cyclooctadien-1-ol	124	C8H12O	010017-18-2	28
5	2-Methoxy-succinonitrile	110	C5H6N2O	1000192-47-8	25





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

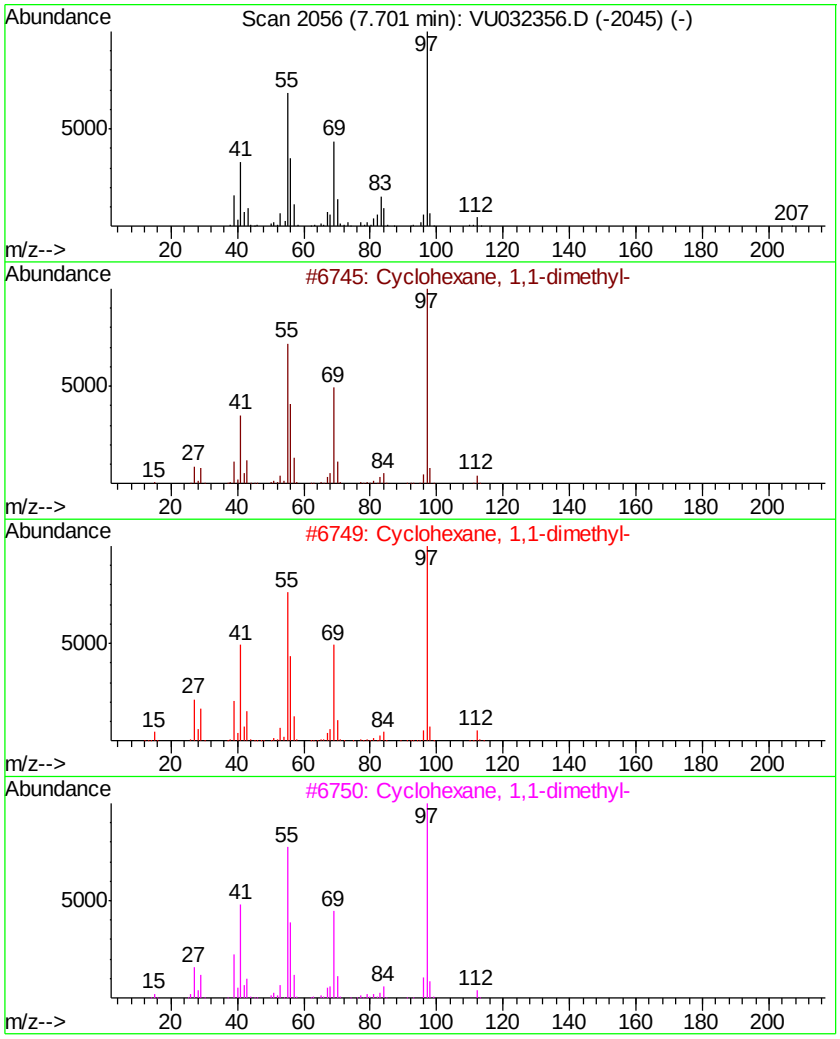
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

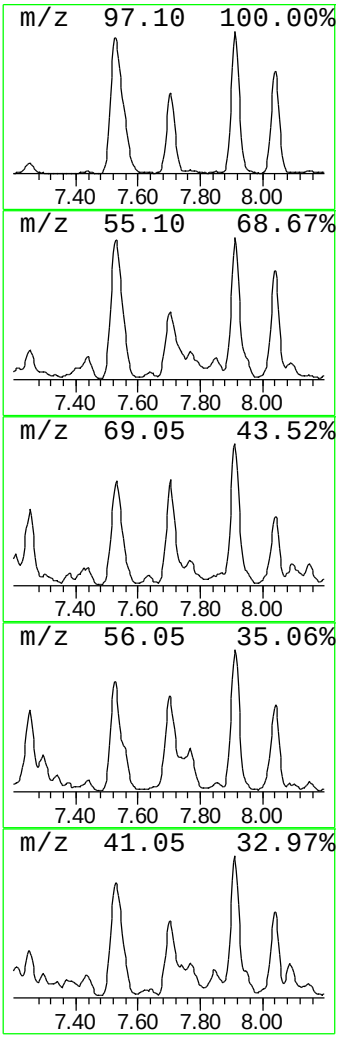
****

Peak Number 22 (DEL) Alkane: Cyclic7.70 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	3.51 ug/L	726177	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	94
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	93
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	91
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	64
5	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	59





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

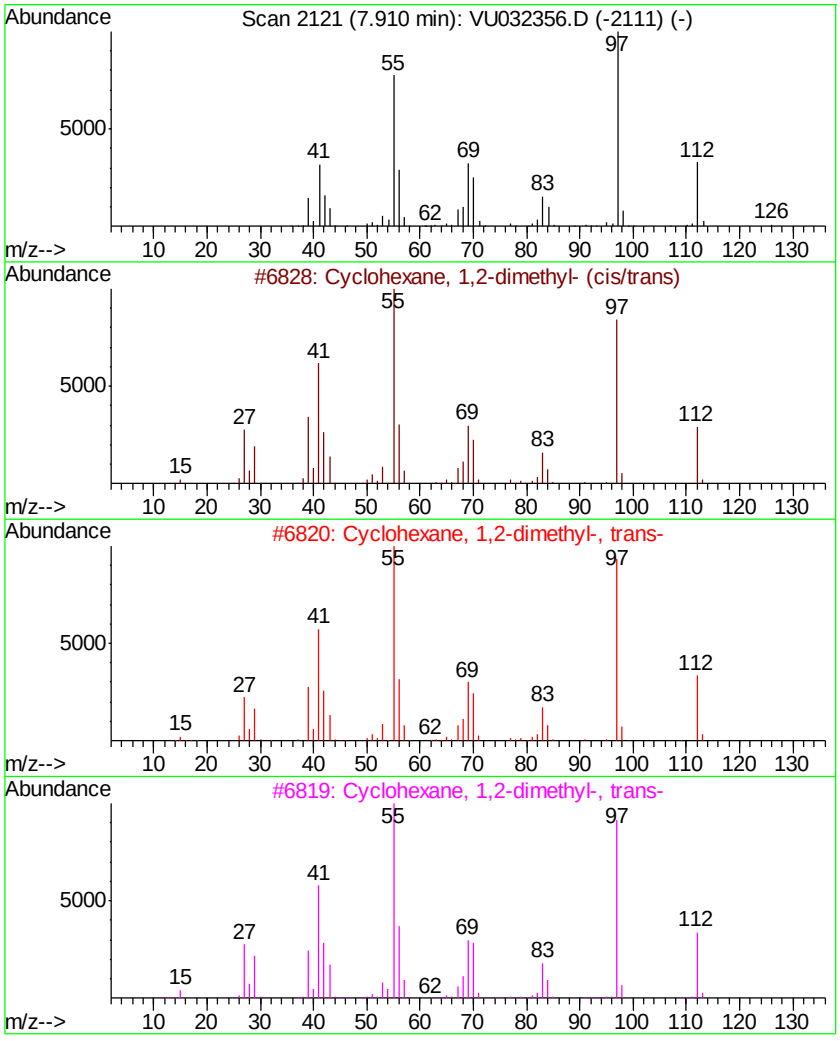
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

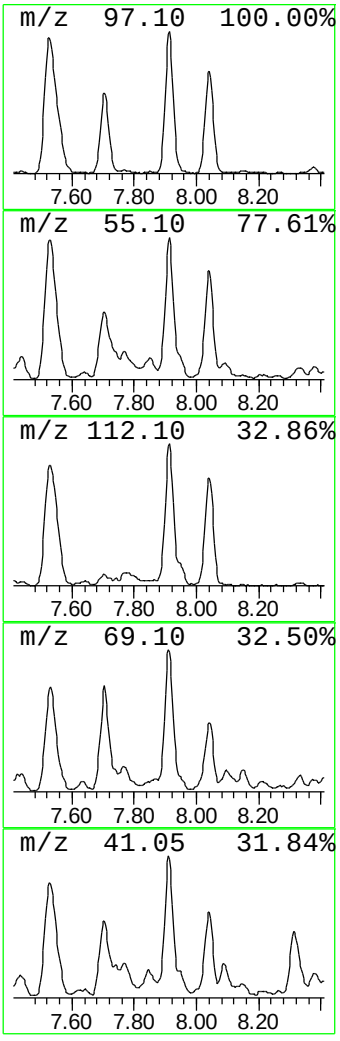
****

Peak Number 23 (DEL) Alkane: Cyclic7.91 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	5.48 ug/L	1134850	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

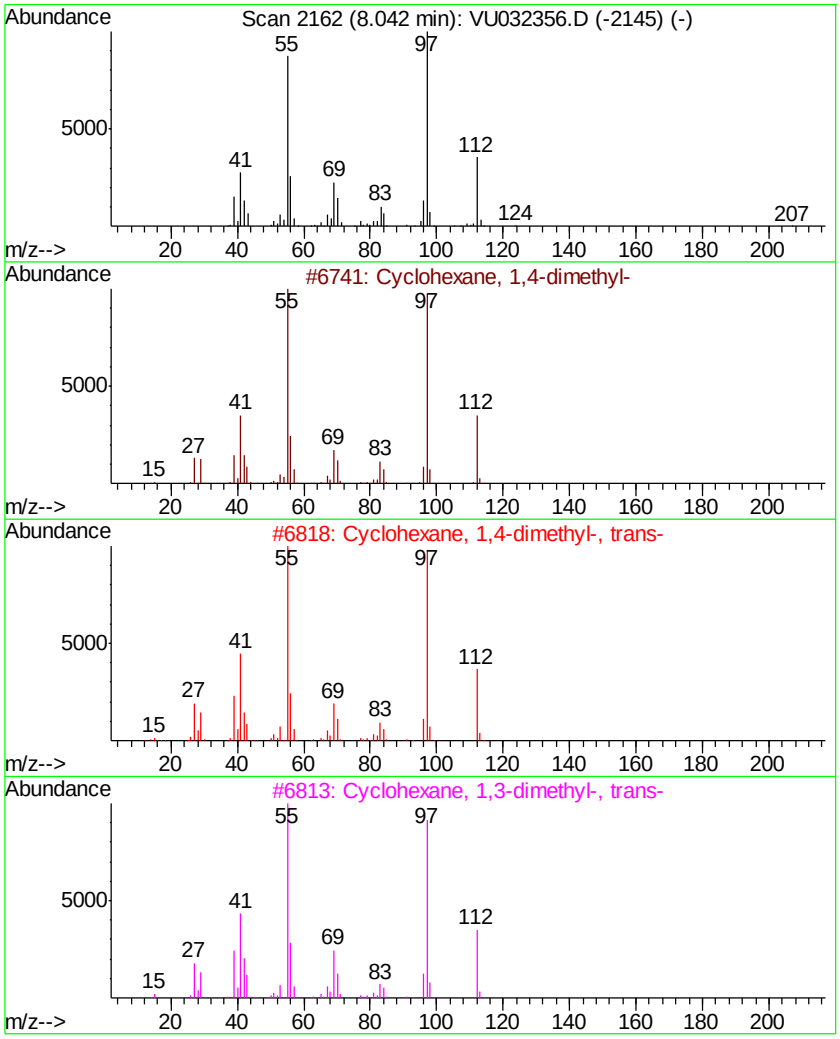
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

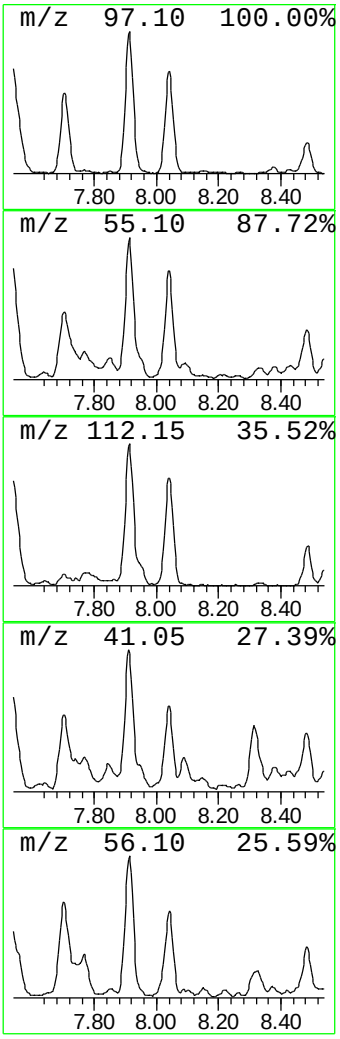
****

Peak Number 24 (DEL) Alkane: Cyclic8.04 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	3.31 ug/L	686095	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	95
2	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	95
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	94





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

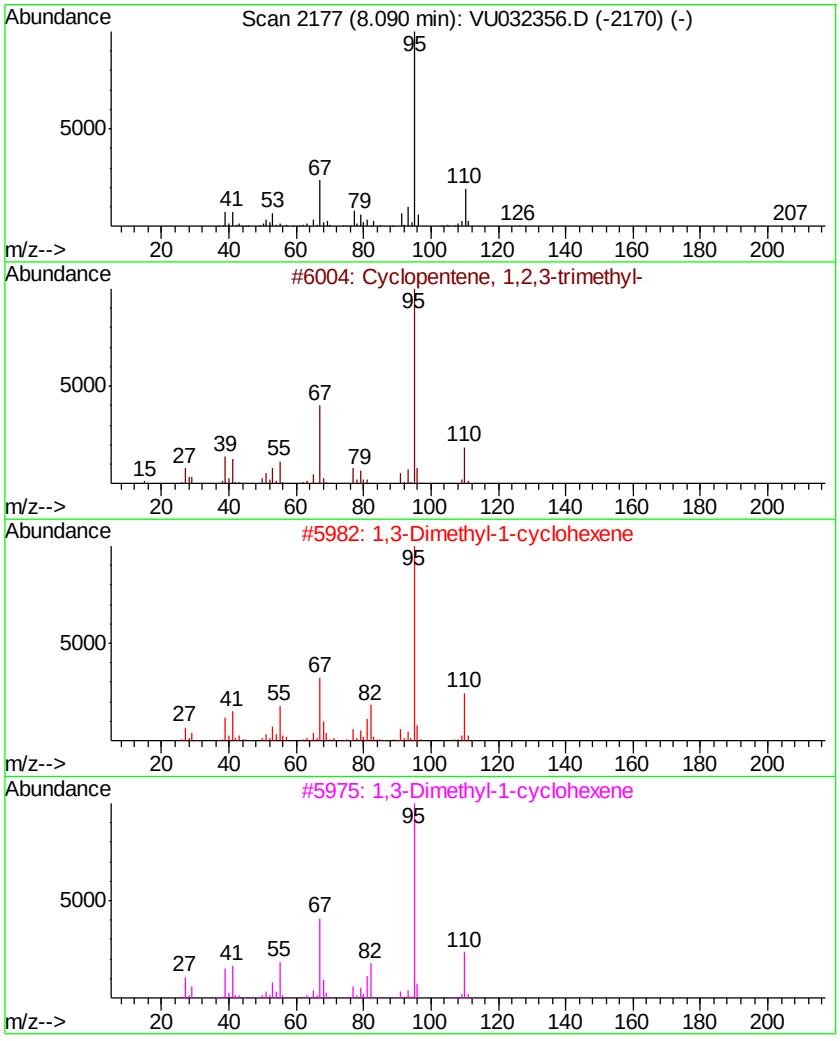
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

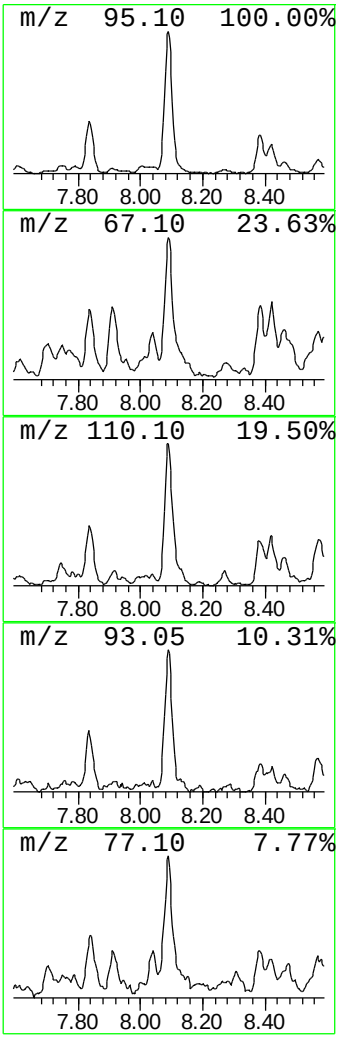
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 Cyclopentene, 1,2,3-trimethyl- Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	1.69 ug/L	350352	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	91
2	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	86
3	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	78
4	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	72
5	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

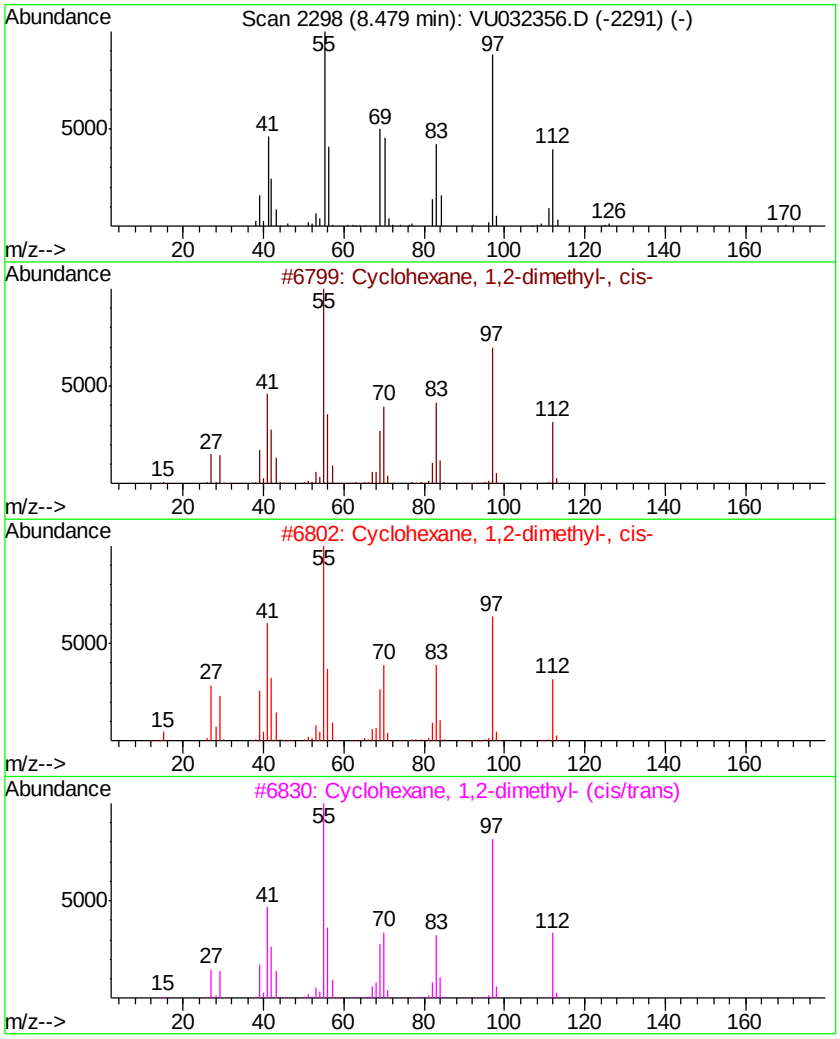
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

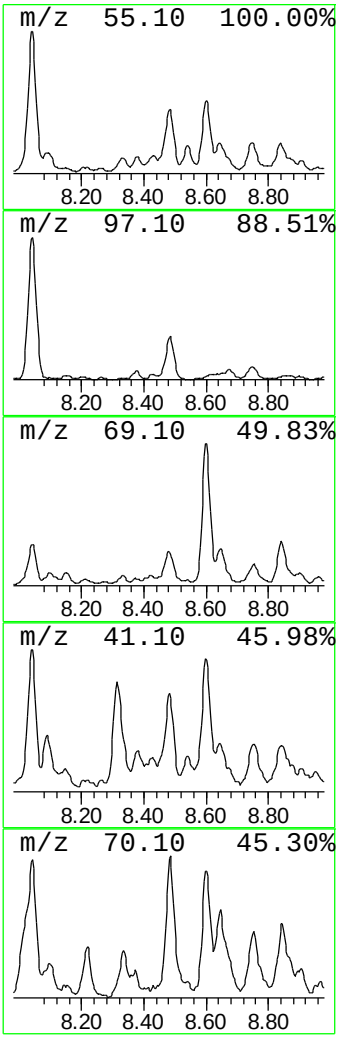
****

Peak Number 26 (DEL) Alkane: Cyclic8.48 Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	1.66 ug/L	343852	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	93
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	90
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	87
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	72





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

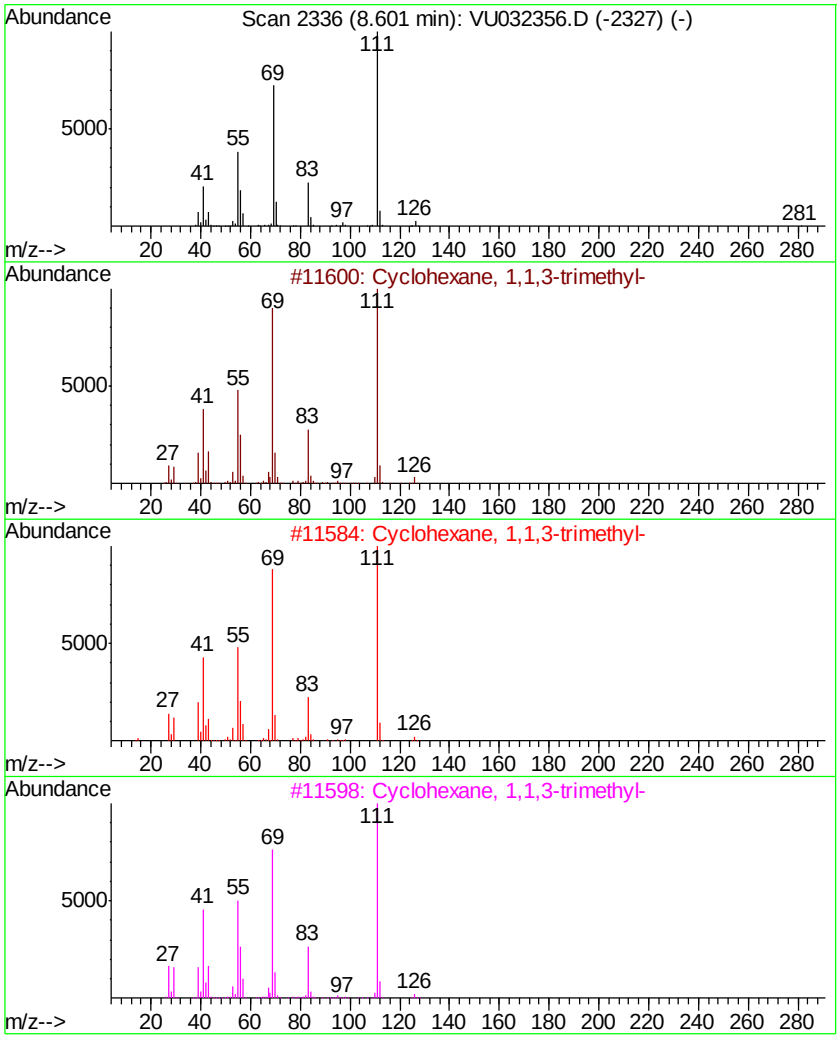
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

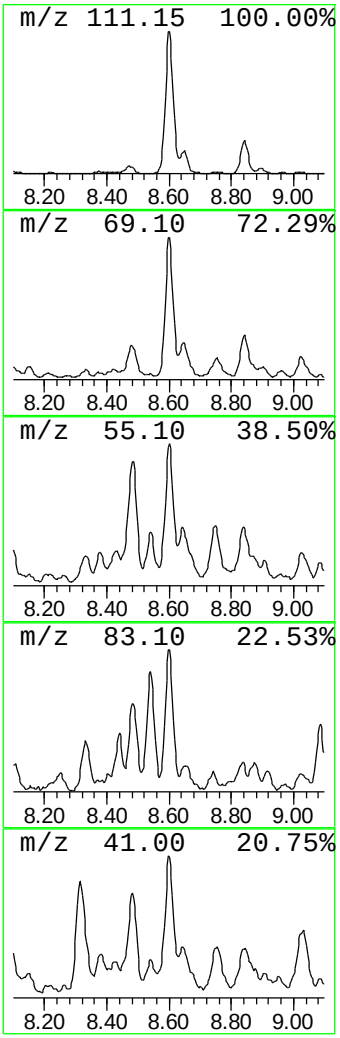
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 27 (DEL) Alkane: Cyclic8.60 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	1.97 ug/L	407148	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	78
4	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	72
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	72





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

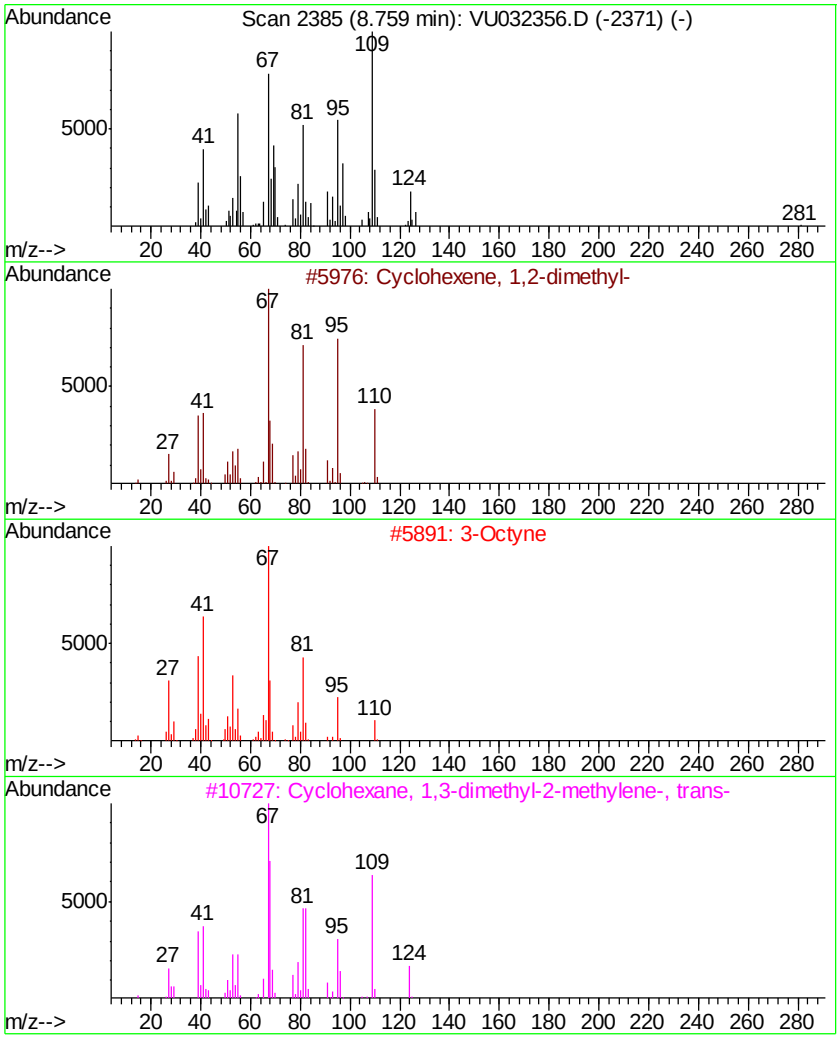
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

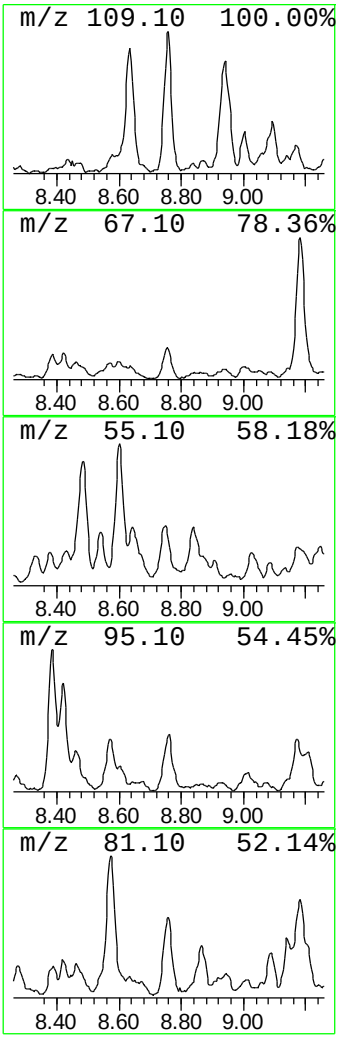
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 Cyclohexene, 1,2-dimethyl- Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	1.49 ug/L	308715	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	95
2	3-Octyne	110	C8H14	015232-76-5	55
3	Cyclohexane, 1,3-dimethyl-2-meth...	124	C9H16	020348-74-7	49
4	4-Octyne	110	C8H14	001942-45-6	46
5	2,4-Heptadiene, 2,4-dimethyl-	124	C9H16	074421-05-9	43





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

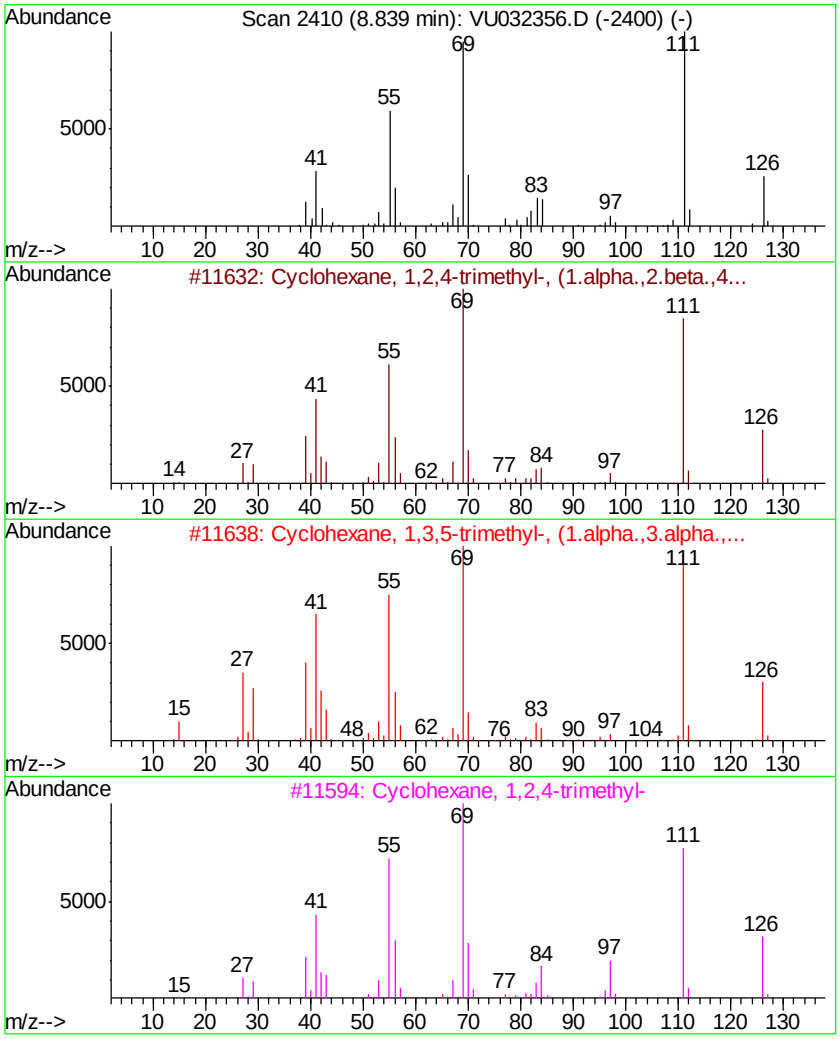
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

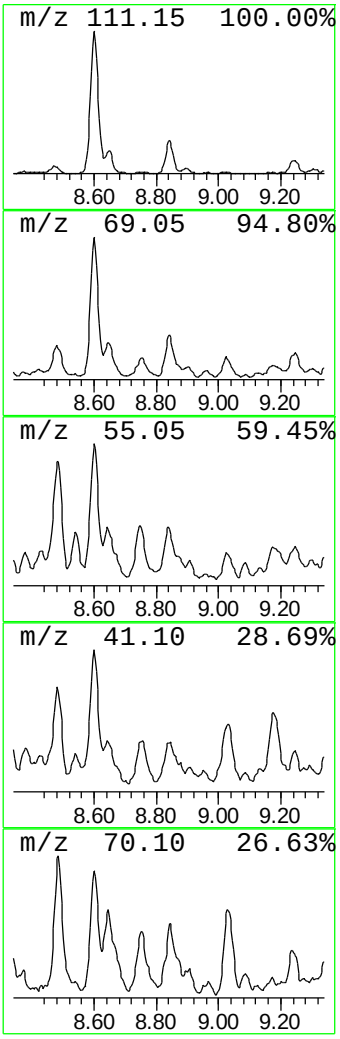
****

Peak Number 29 (DEL) Alkane: Cyclic8.84 Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.84	1.19 ug/L	247391	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	90
2	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	90
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	90
4	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	81
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	80





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

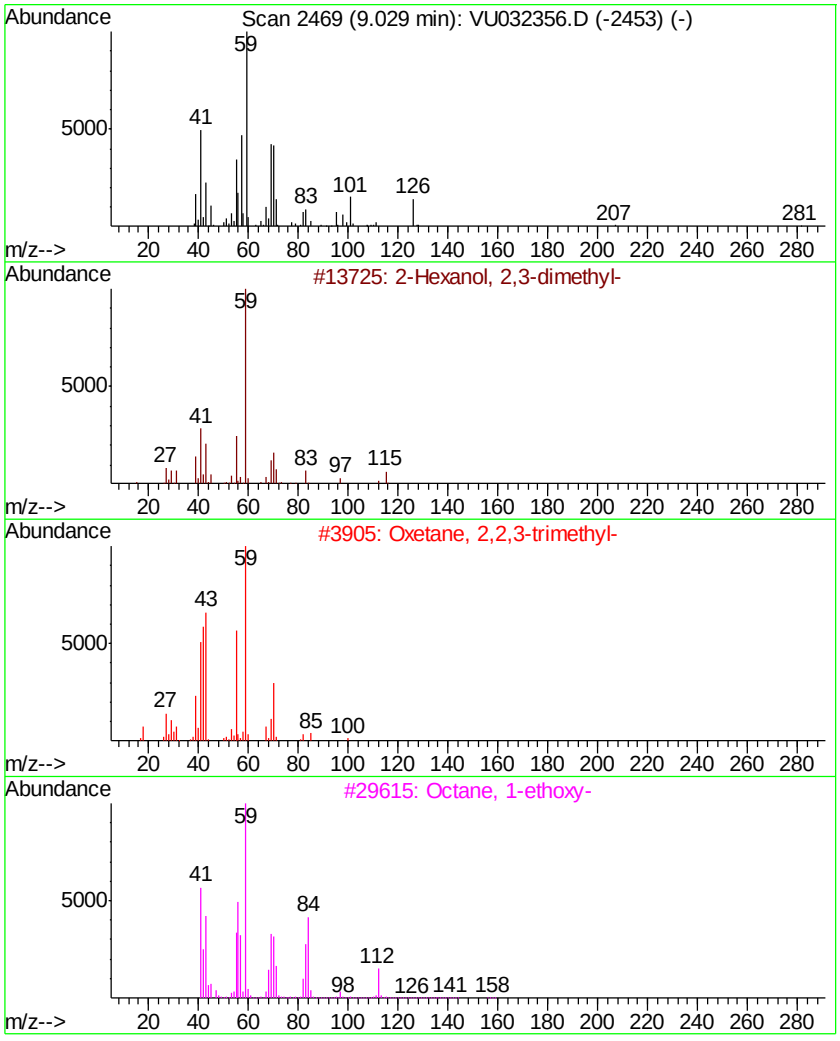
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

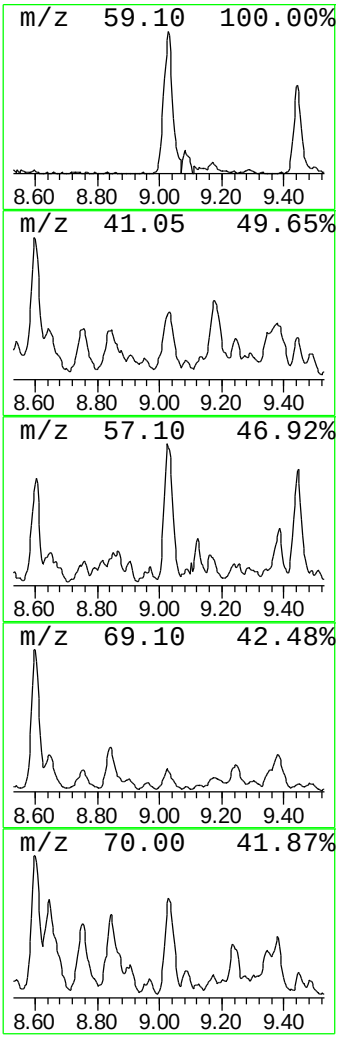
****

Peak Number 30 2-Hexanol, 2,3-dimethyl- Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.03	1.16 ug/L	239678	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexanol, 2,3-dimethyl-	130	C8H18O	019550-03-9	50
2	Oxetane, 2,2,3-trimethyl-	100	C6H12O	023120-43-6	45
3	Octane, 1-ethoxy-	158	C10H22O	000929-61-3	42
4	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	38
5	7-Octen-2-ol, 2,6-dimethyl-	156	C10H20O	018479-58-8	37





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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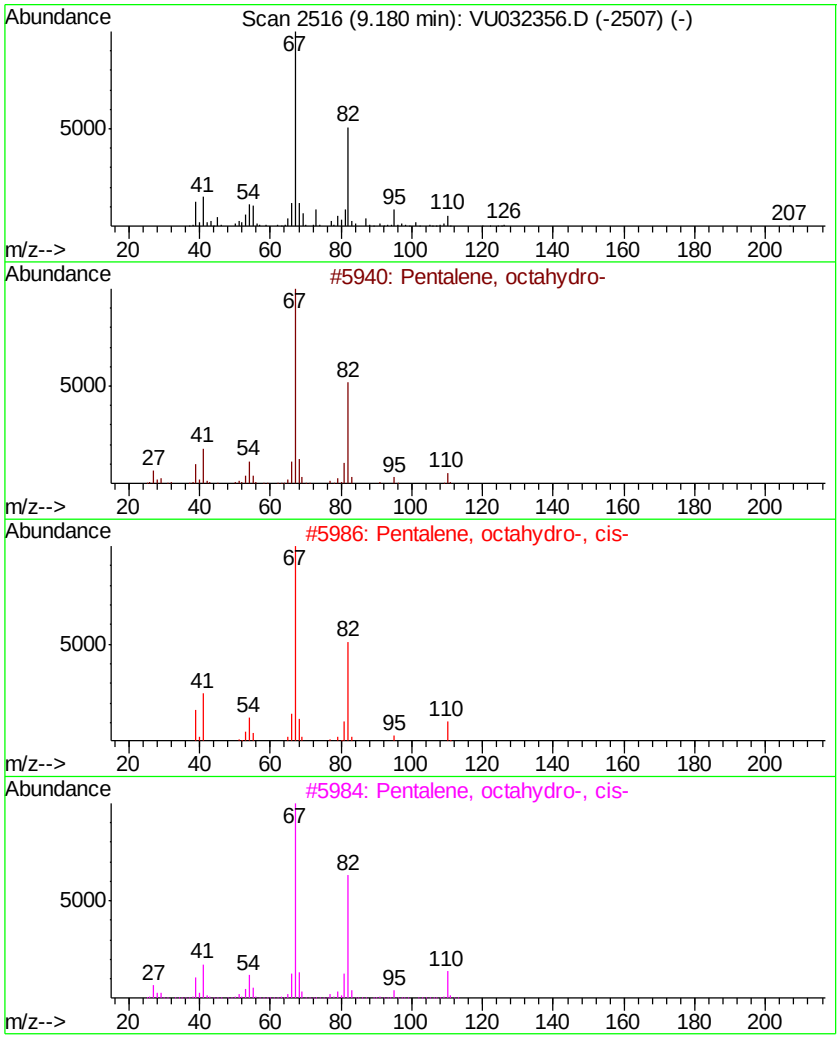
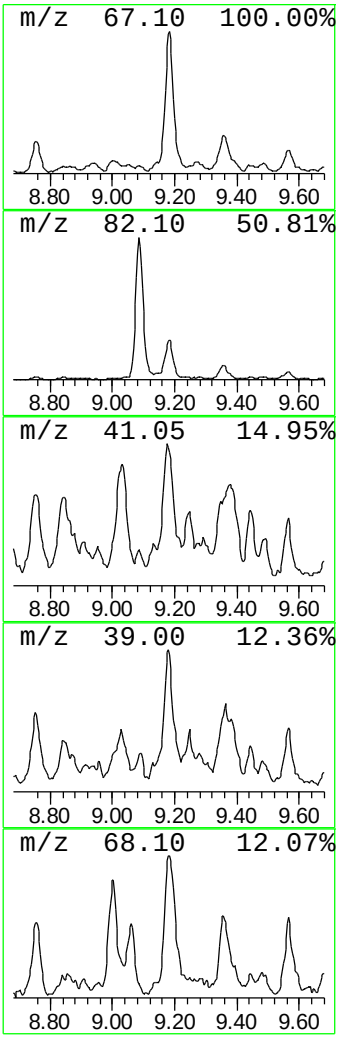
Peak Number 31 Pentalene, octahydro- Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	1.72 ug/L	355850	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	87
2	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	86
3	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	72
4	3,3-Tetramethyleneglutaric anhyd...	168	C9H12O3	005662-95-3	72
5	1,3-Pentadiene, 2-methyl-, (E)-	82	C6H10	000926-54-5	64





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

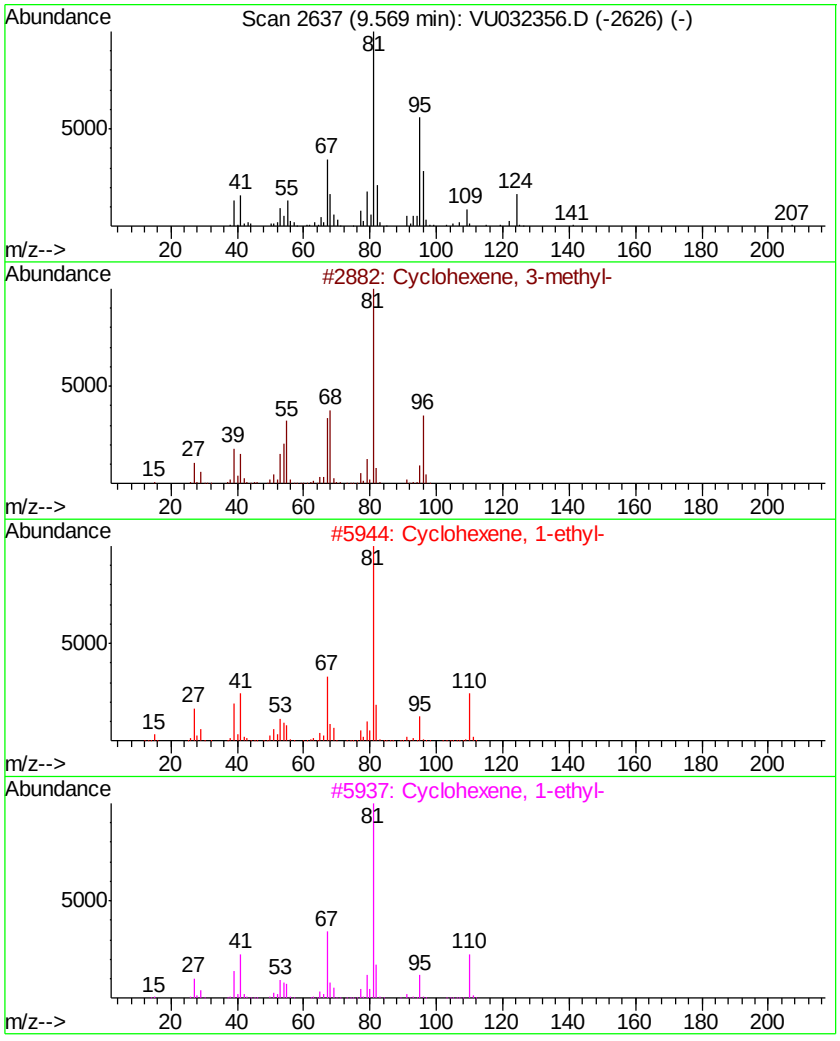
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

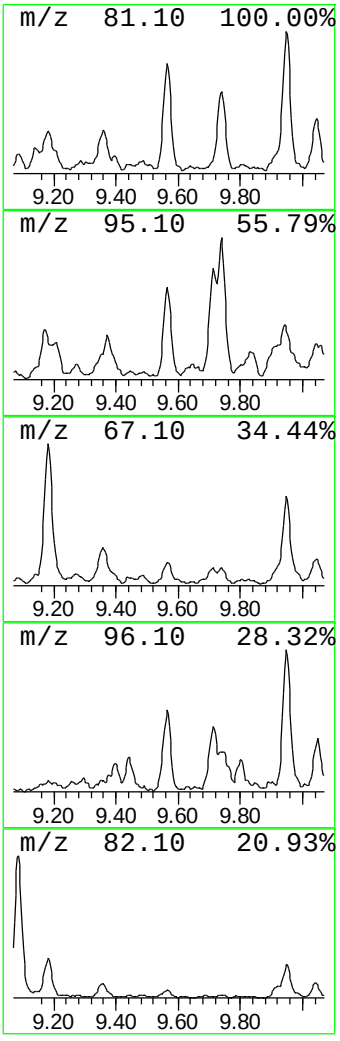
****

Peak Number 32 Cyclohexene, 3-methyl- Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	1.05 ug/L	217613	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	52
2	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	50
3	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	50
4	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	49
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	47





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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

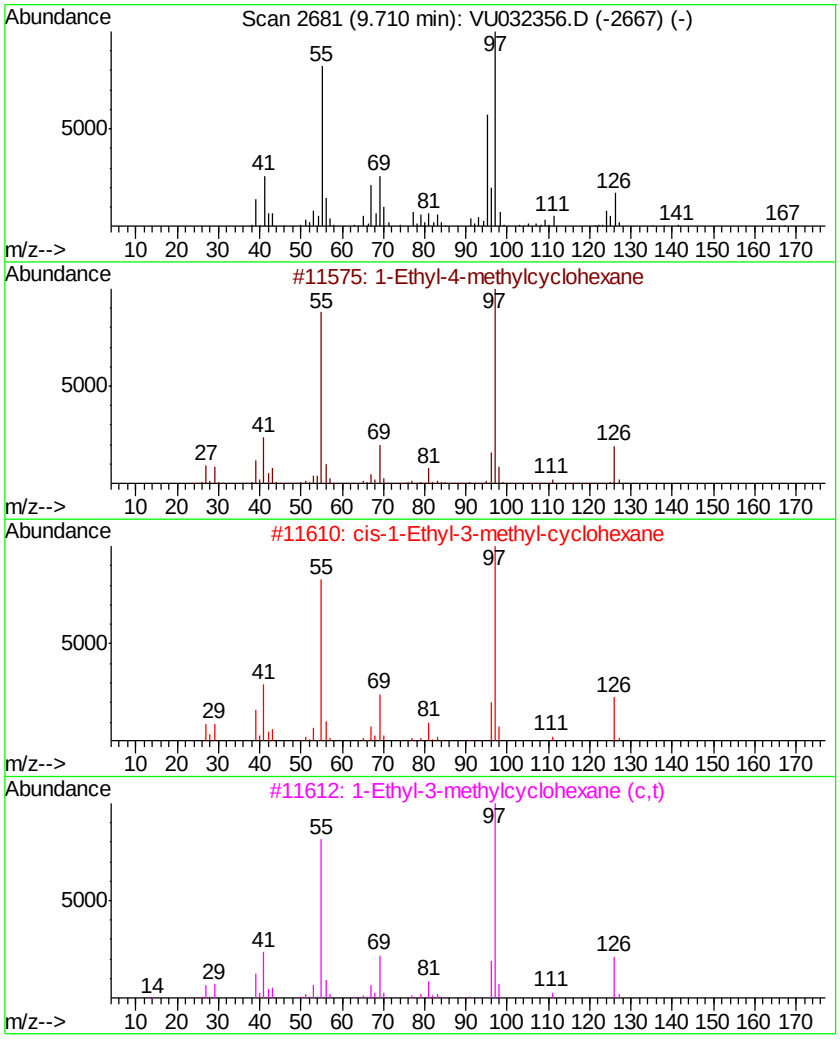
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

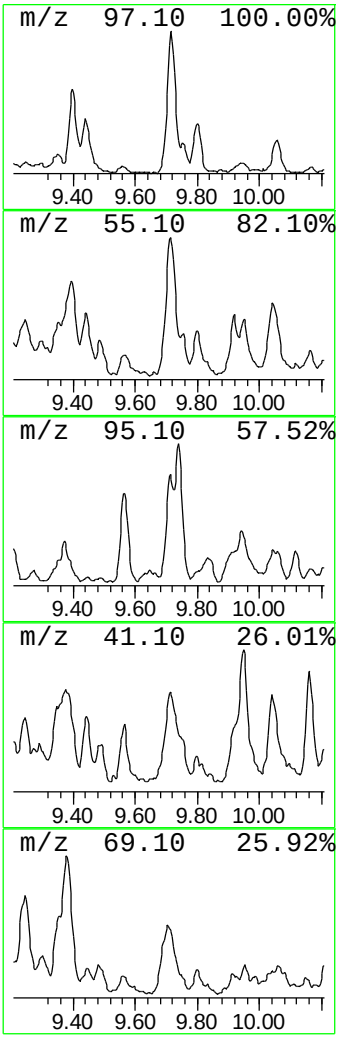
****

Peak Number 33 (DEL) Alkane: Cyclic9.71 Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.71	2.40 ug/L	497285	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	76
2	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	70
3	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	70
4	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	64
5	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	58





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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

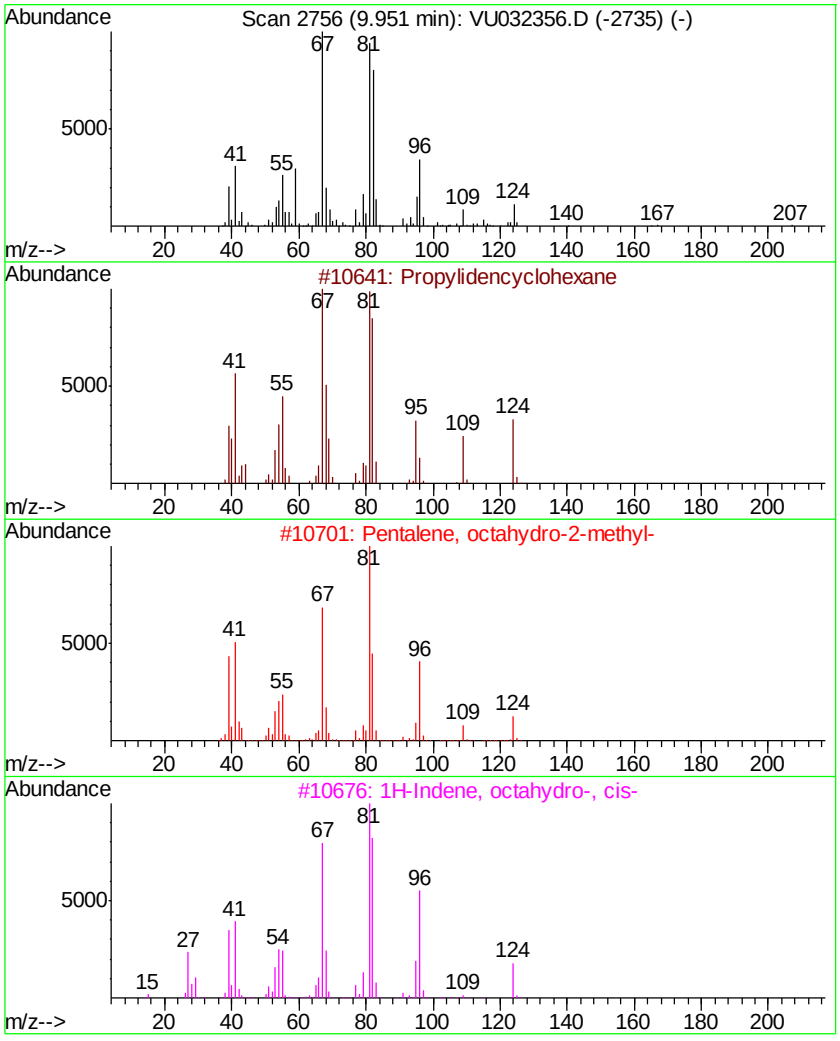
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

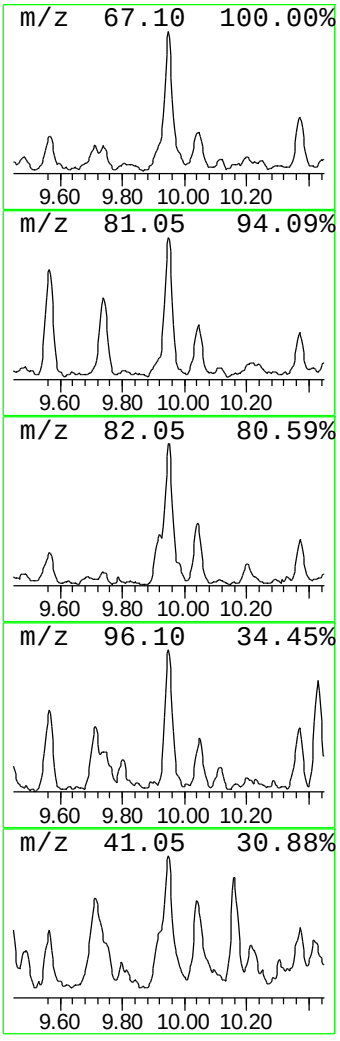
****

Peak Number 34 Propylidencyclohexane Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	2.94 ug/L	608451	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propylidencyclohexane	124	C9H16	002129-93-3	50
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	49
3	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	46
4	7-Methyl-1,6-octadiene	124	C9H16	042152-47-6	45
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	41





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

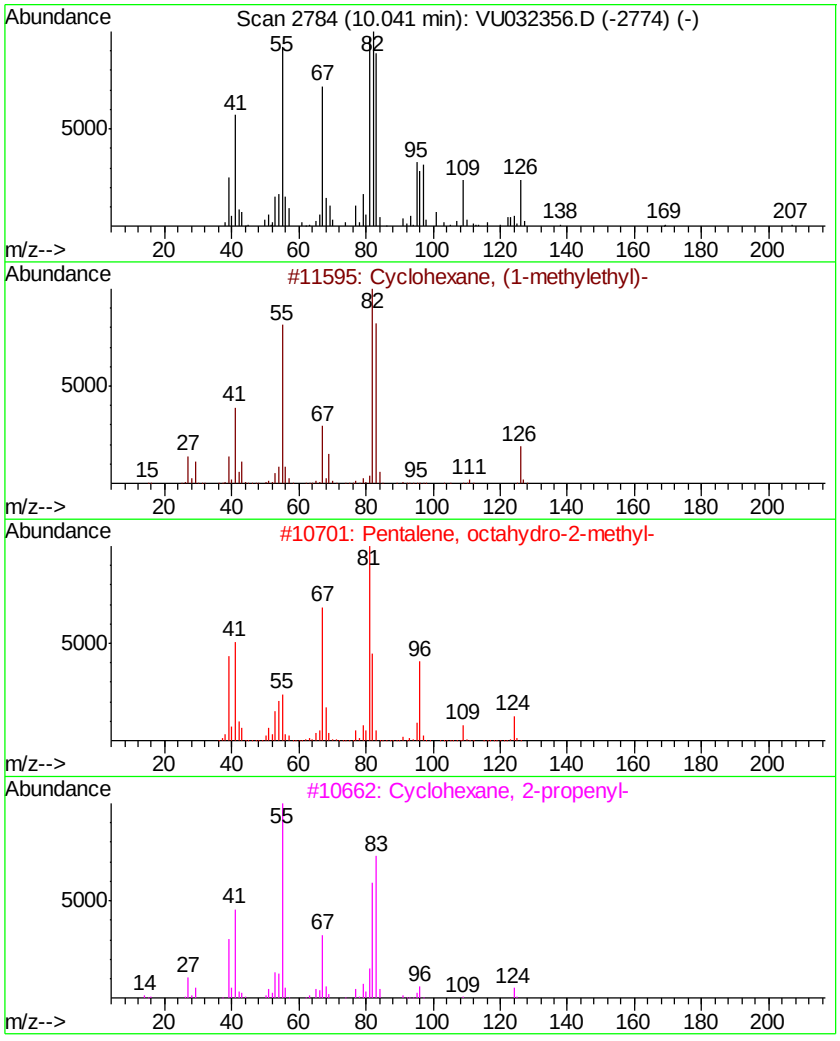
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

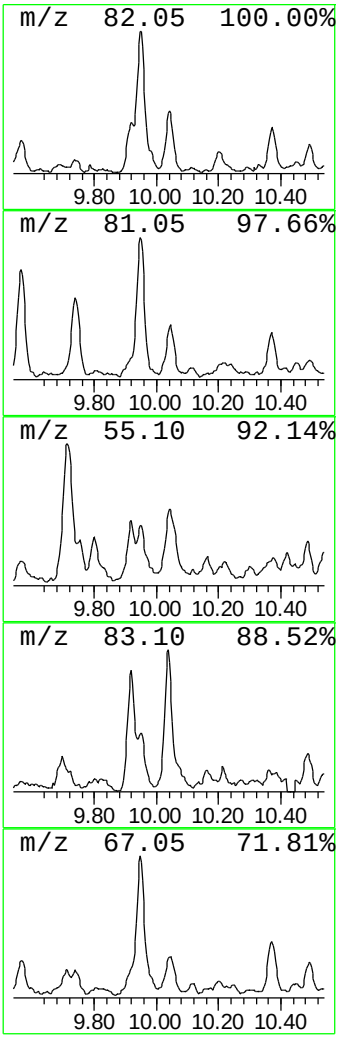
****

Peak Number 35 (DEL) Alkane: Cyclic10.04 Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	1.22 ug/L	252543	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	46
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	42
3	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	38
4	Cyclohexene,1-propyl-	124	C9H16	002539-75-5	35
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	30





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Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

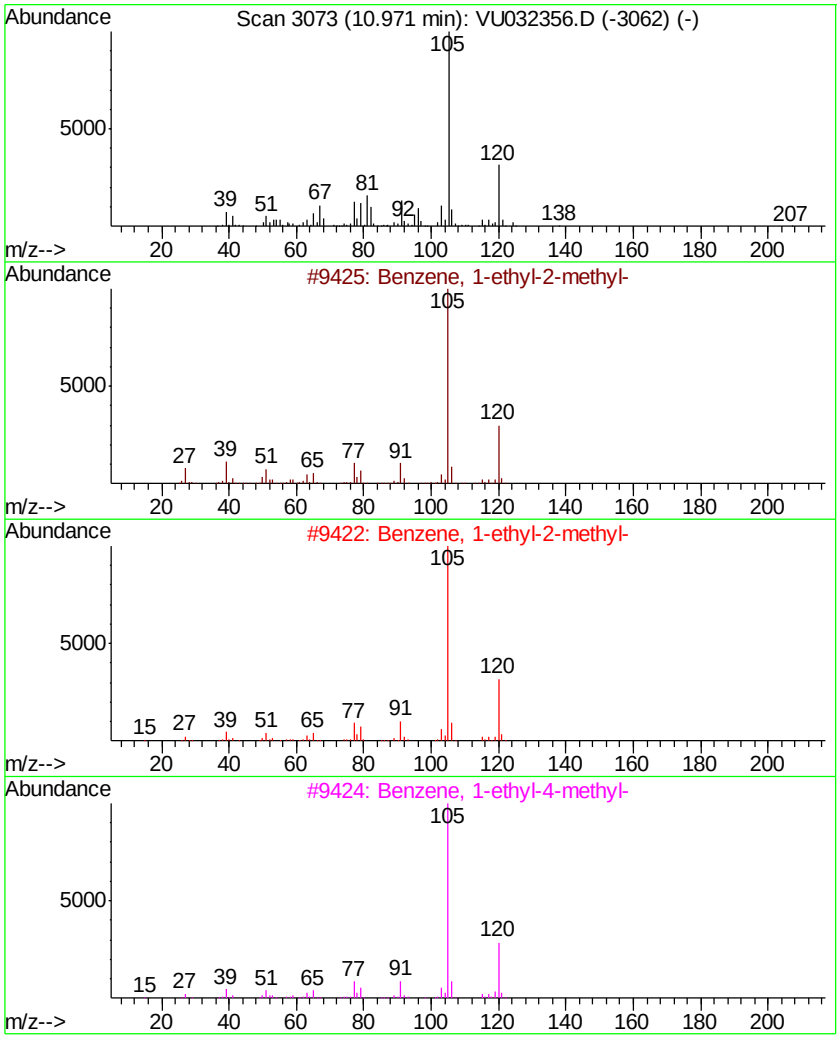
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

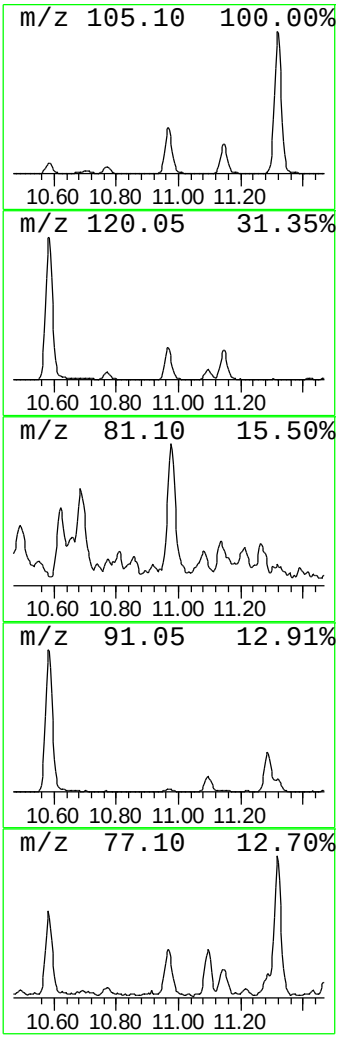
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 37 Benzene, 1-ethyl-2-methyl- Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	1.56 ug/L	375154	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	87
5	Mesitylene	120	C9H12	000108-67-8	87





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

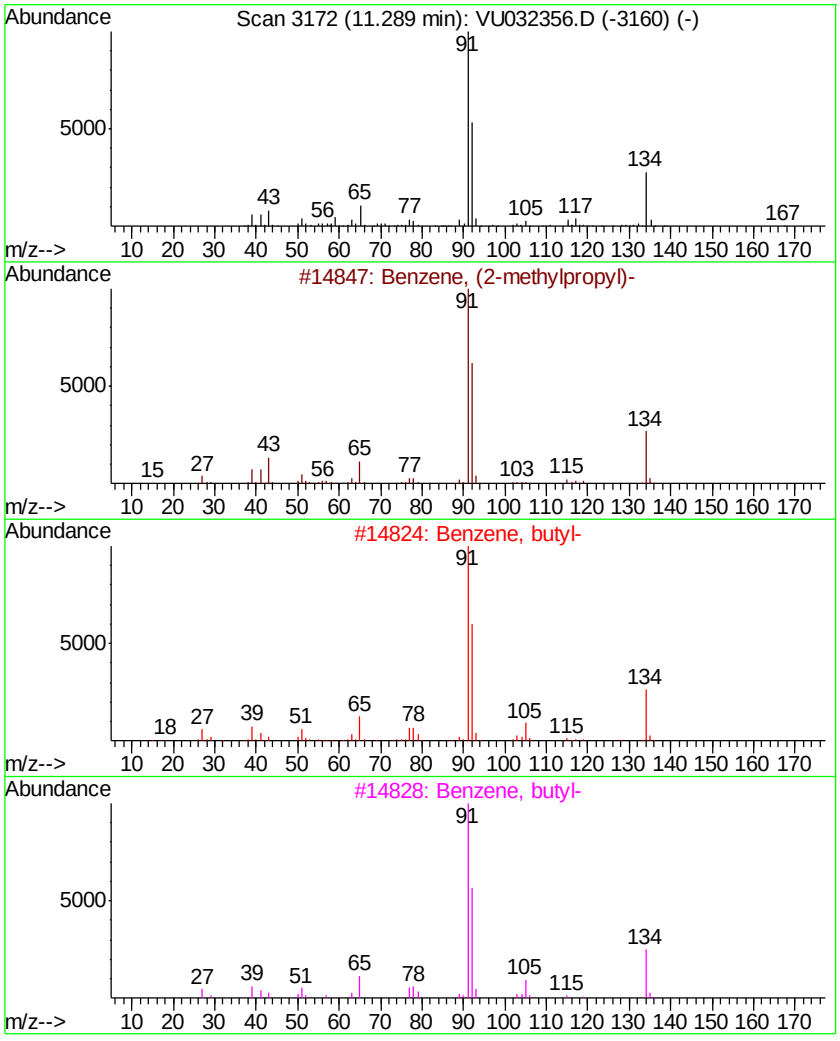
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

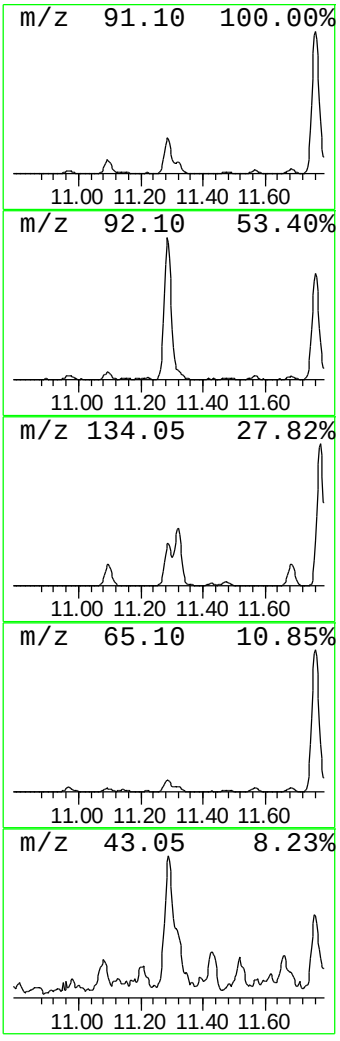
****

Peak Number 40 Benzene, (2-methylpropyl)- Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	1.85 ug/L	443562	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	87
2	Benzene, butyl-	134	C10H14	000104-51-8	72
3	Benzene, butyl-	134	C10H14	000104-51-8	72
4	Benzene, butyl-	134	C10H14	000104-51-8	72
5	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	64





Library Search Compound Report

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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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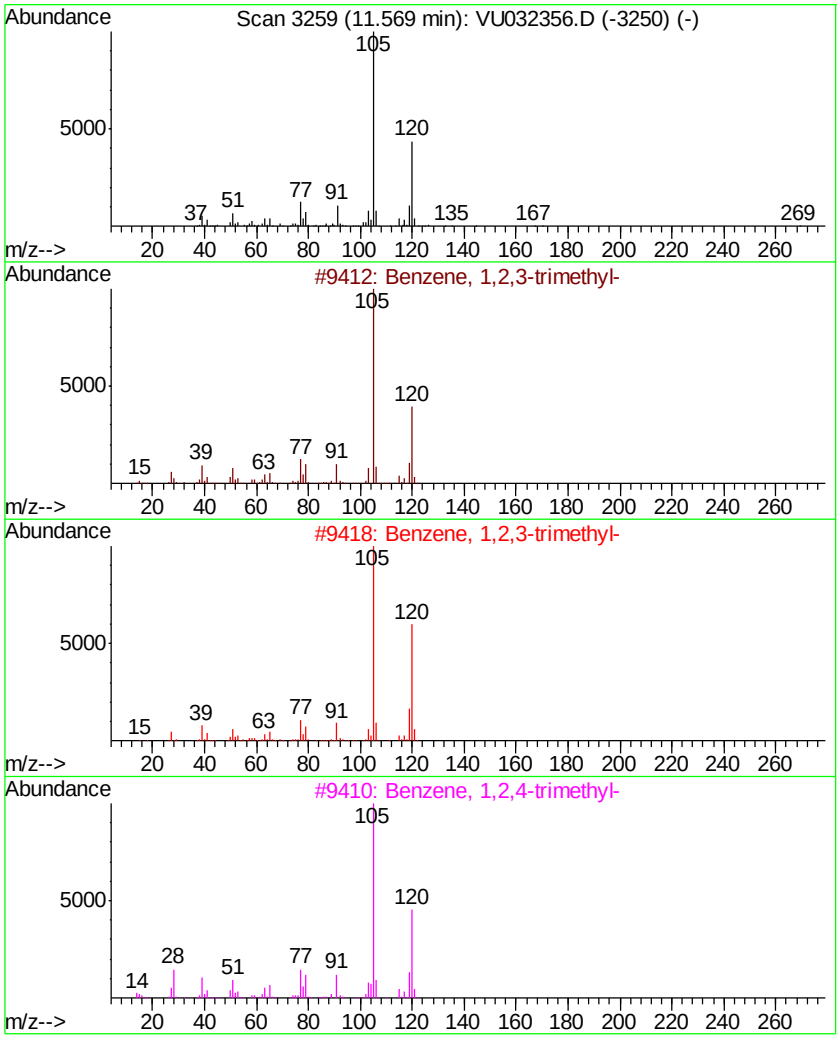
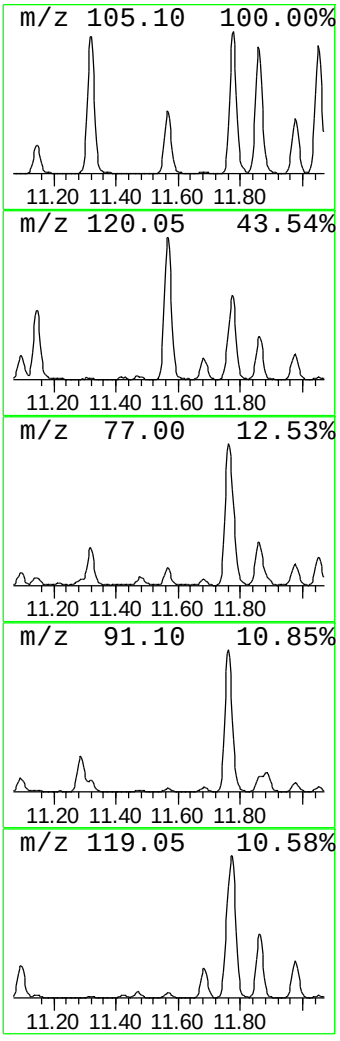
Peak Number 42 Benzene, 1,2,3-trimethyl- Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	1.42 ug/L	341939	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Mesitylene	120	C9H12	000108-67-8	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

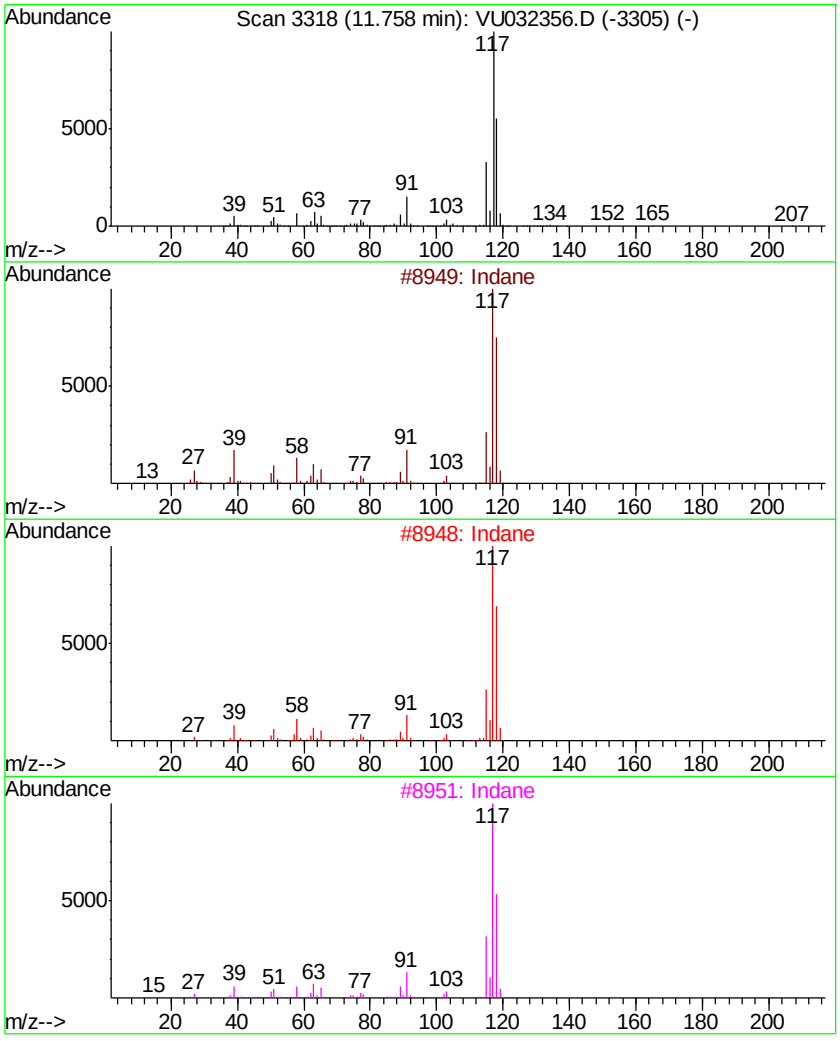
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

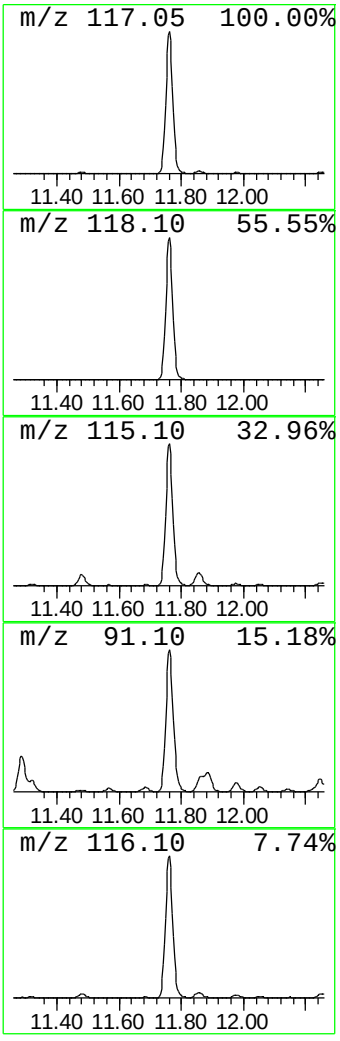
****

Peak Number 44 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	57.27 ug/L	13745700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	91
2	Indane	118	C9H10	000496-11-7	87
3	Indane	118	C9H10	000496-11-7	87
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	83
5	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

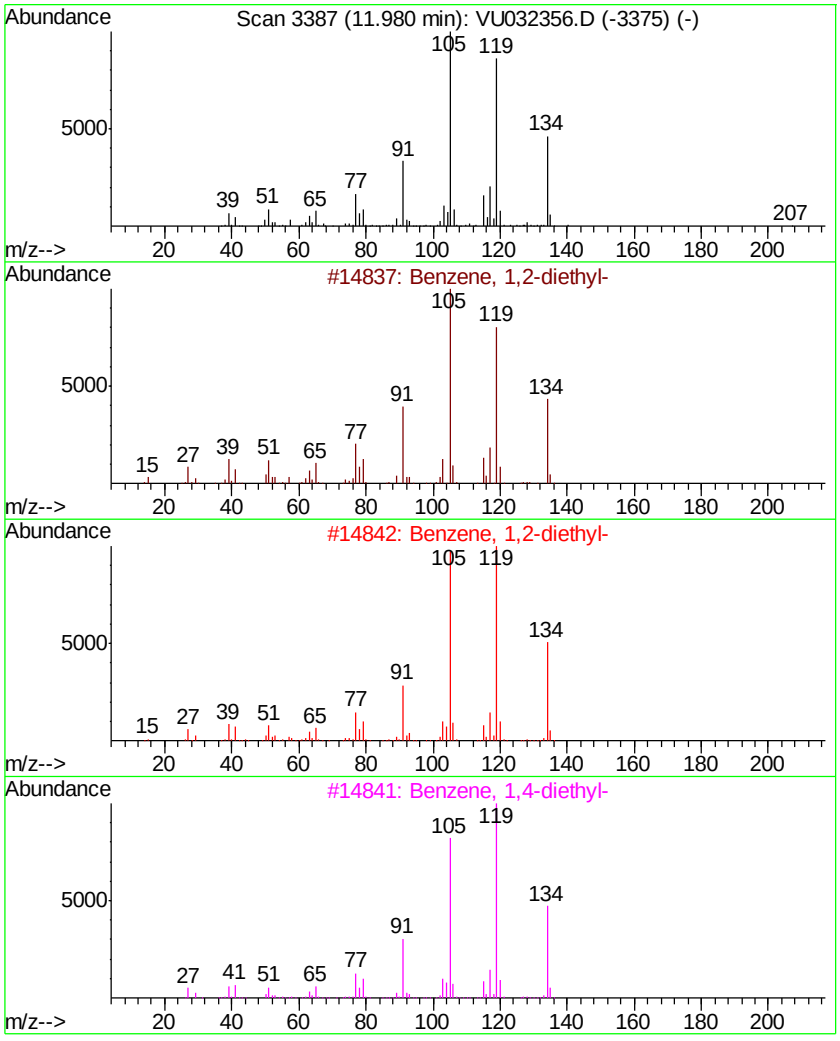
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

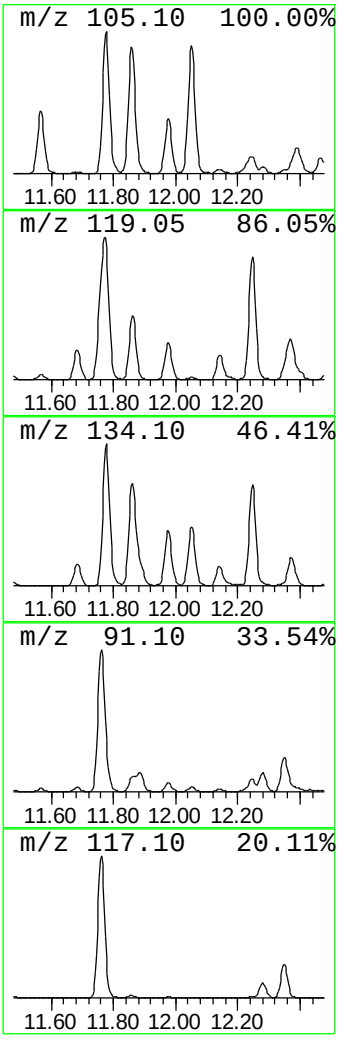
****

Peak Number 45 Benzene, 1,2-diethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	2.48 ug/L	594759	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	95
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

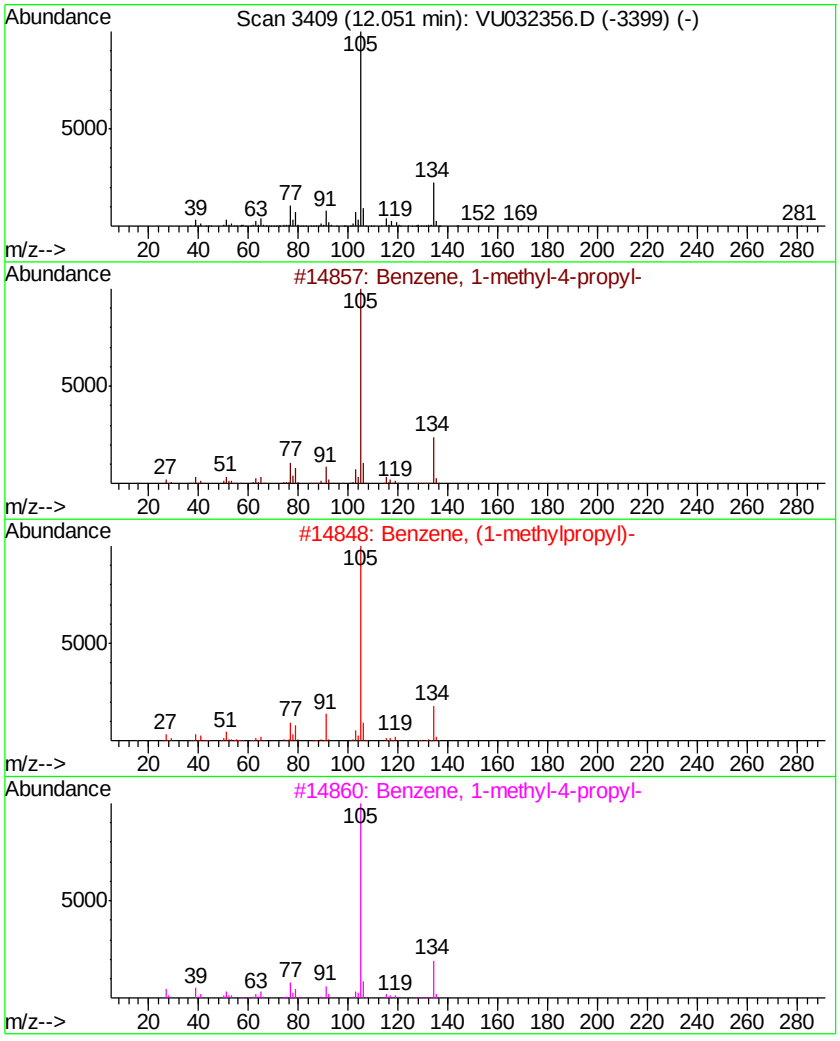
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

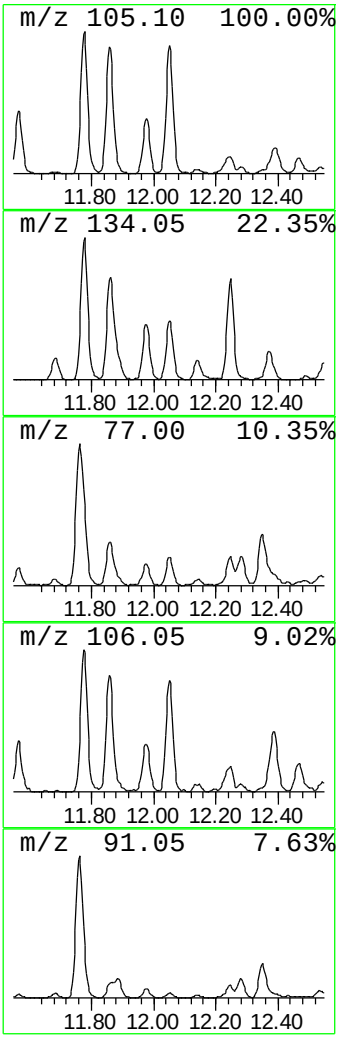
****

Peak Number 46 Benzene, 1-methyl-4-propyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	2.55 ug/L	613109	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	94
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

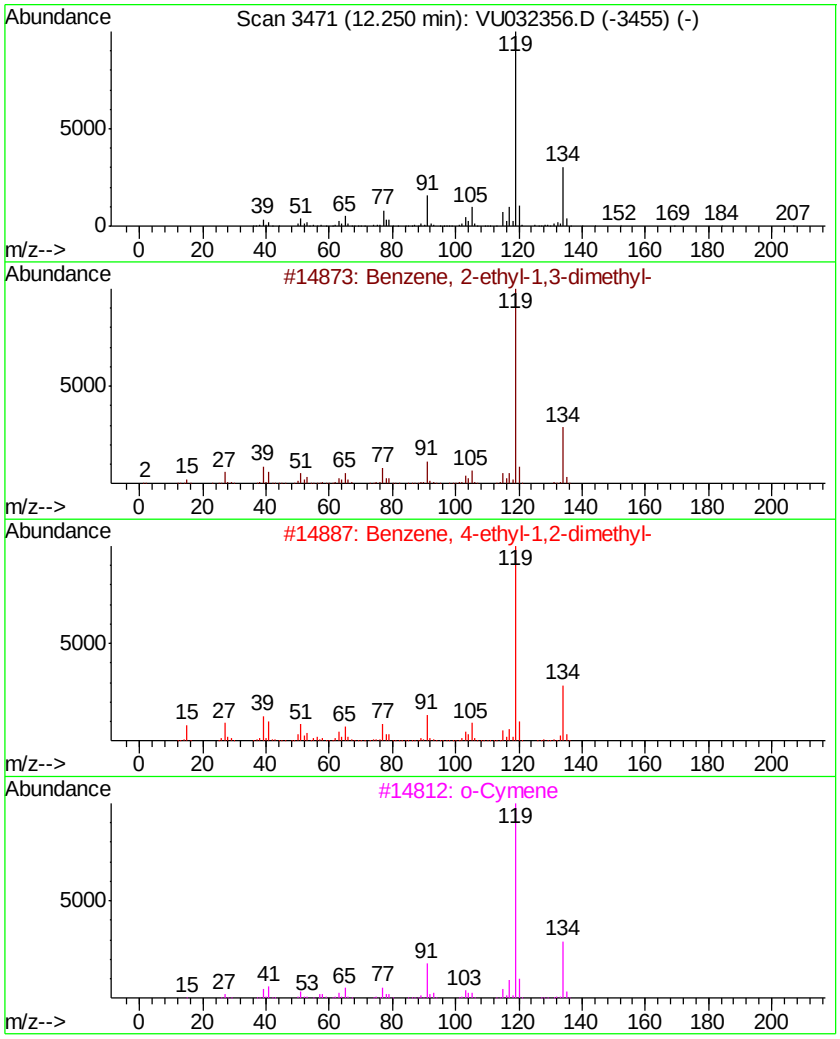
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

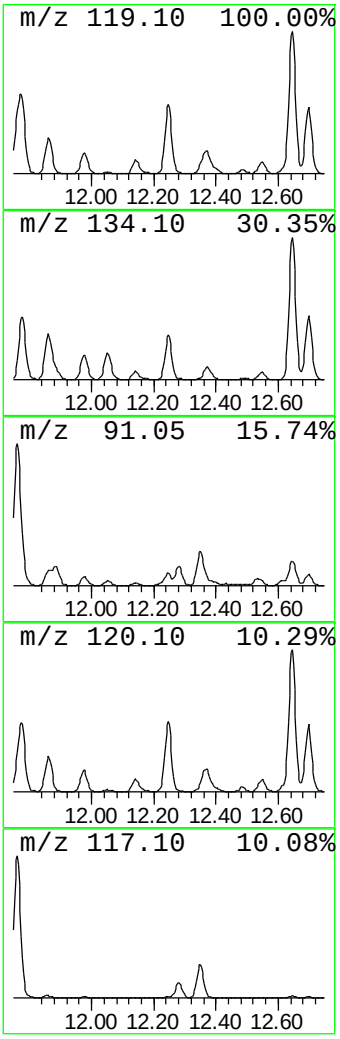
****

Peak Number 47 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	3.70 ug/L	888944	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	o-Cymene	134	C10H14	000527-84-4	94
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	94
5	o-Cymene	134	C10H14	000527-84-4	93





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

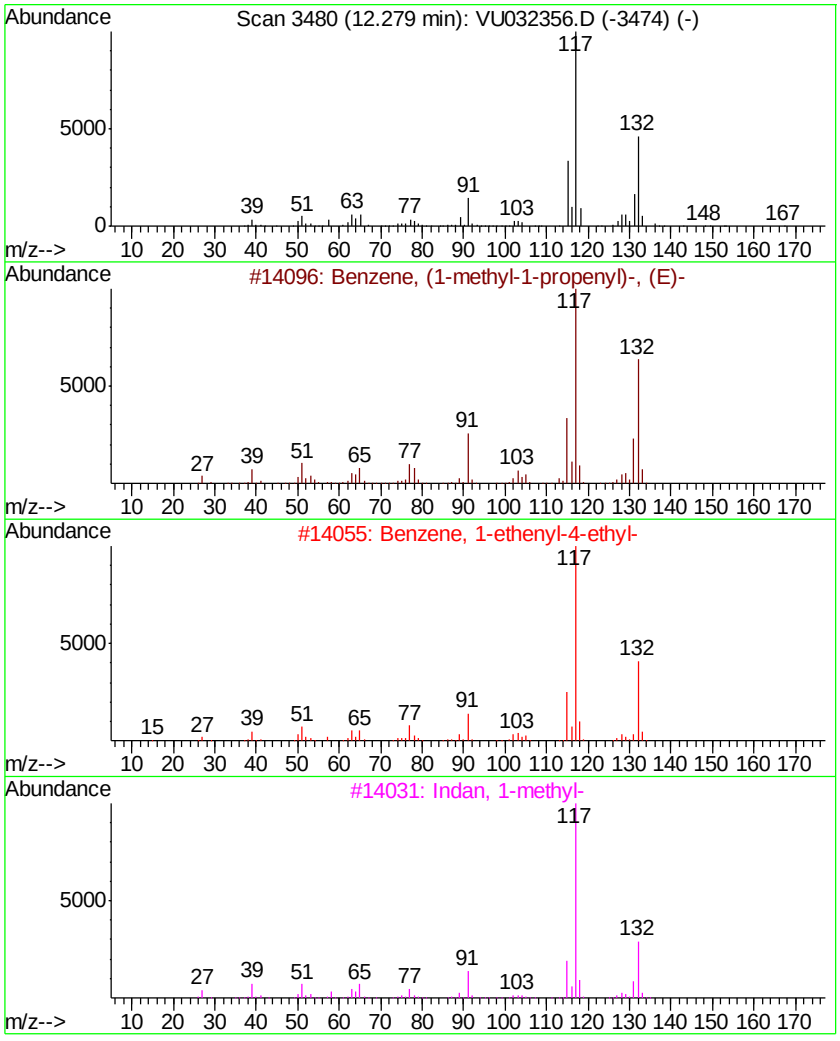
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

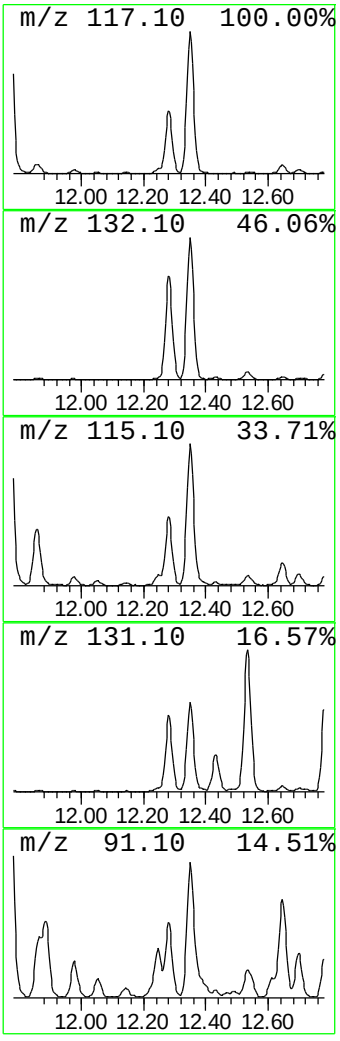
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 Benzene, (1-methyl-1-propen... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.55 ug/L	1572770	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	90
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90
3	Indan, 1-methyl-	132	C10H12	000767-58-8	90
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	90
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

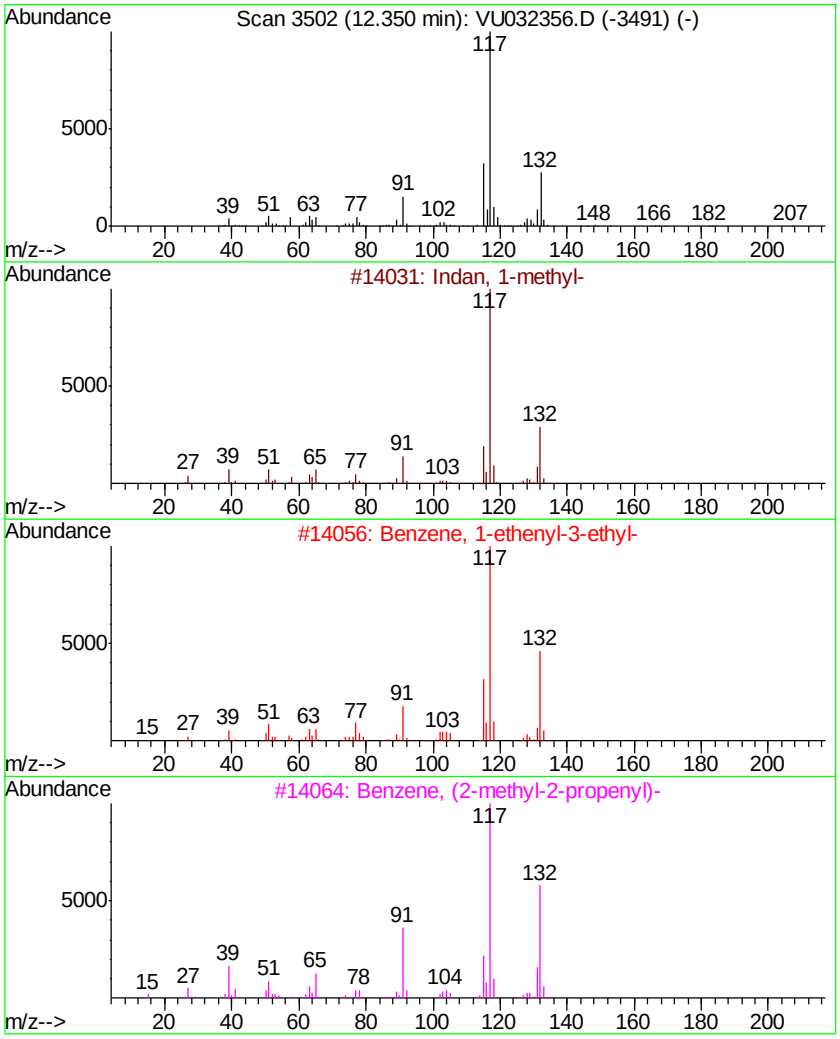
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

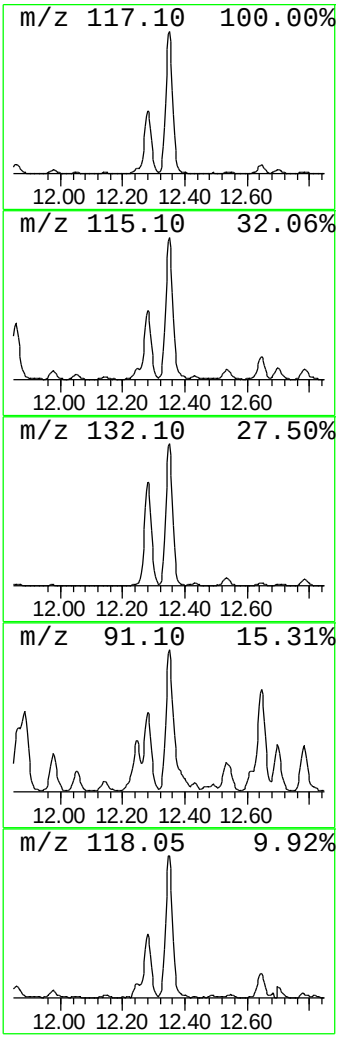
****

Peak Number 49 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	13.73 ug/L	3296660	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	90
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
3	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	86
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

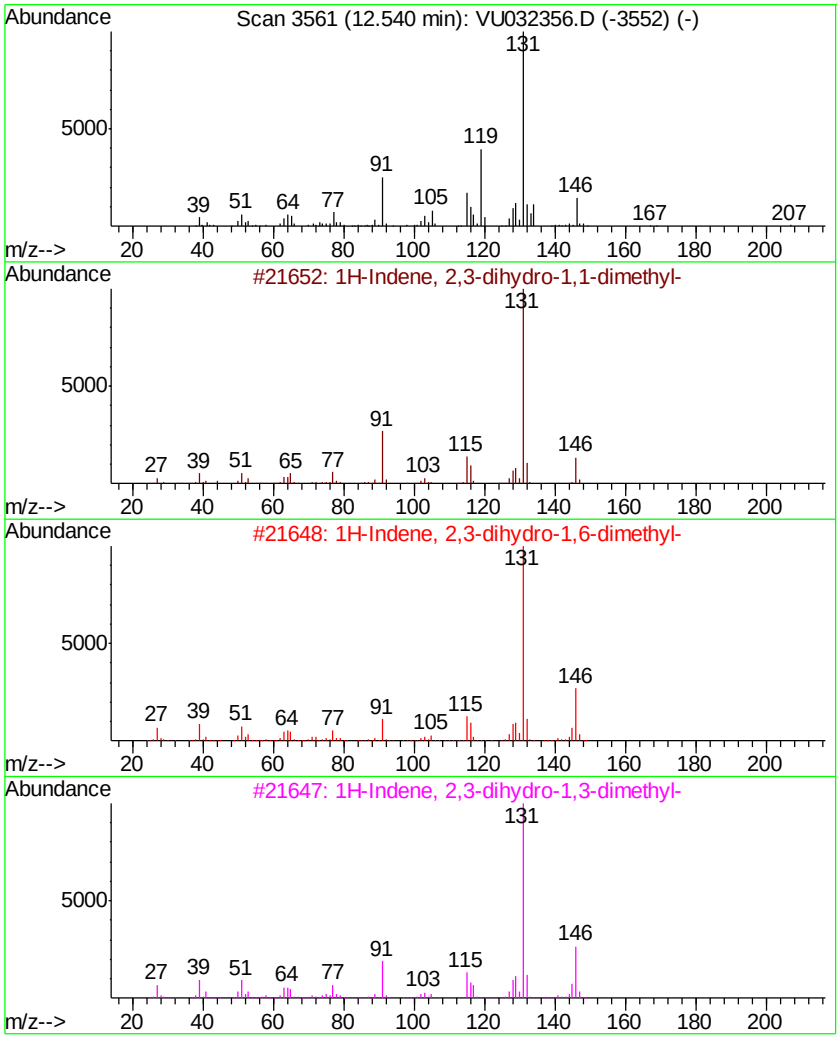
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

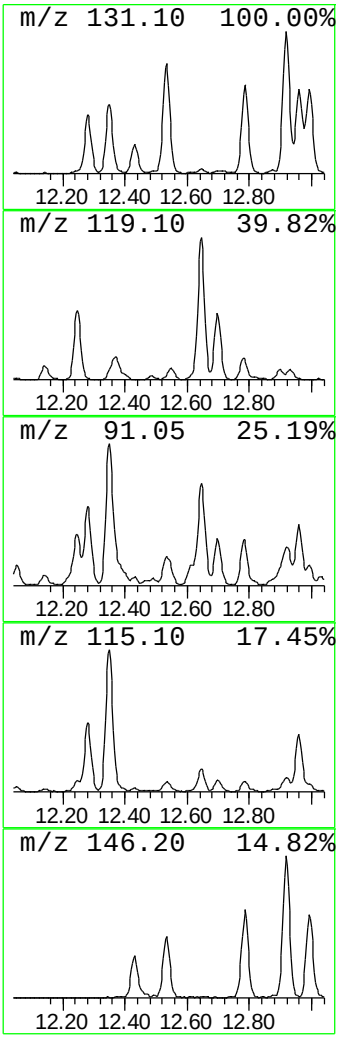
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 50 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	2.44 ug/L	586036	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	93
2	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	89
3	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	81
5	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

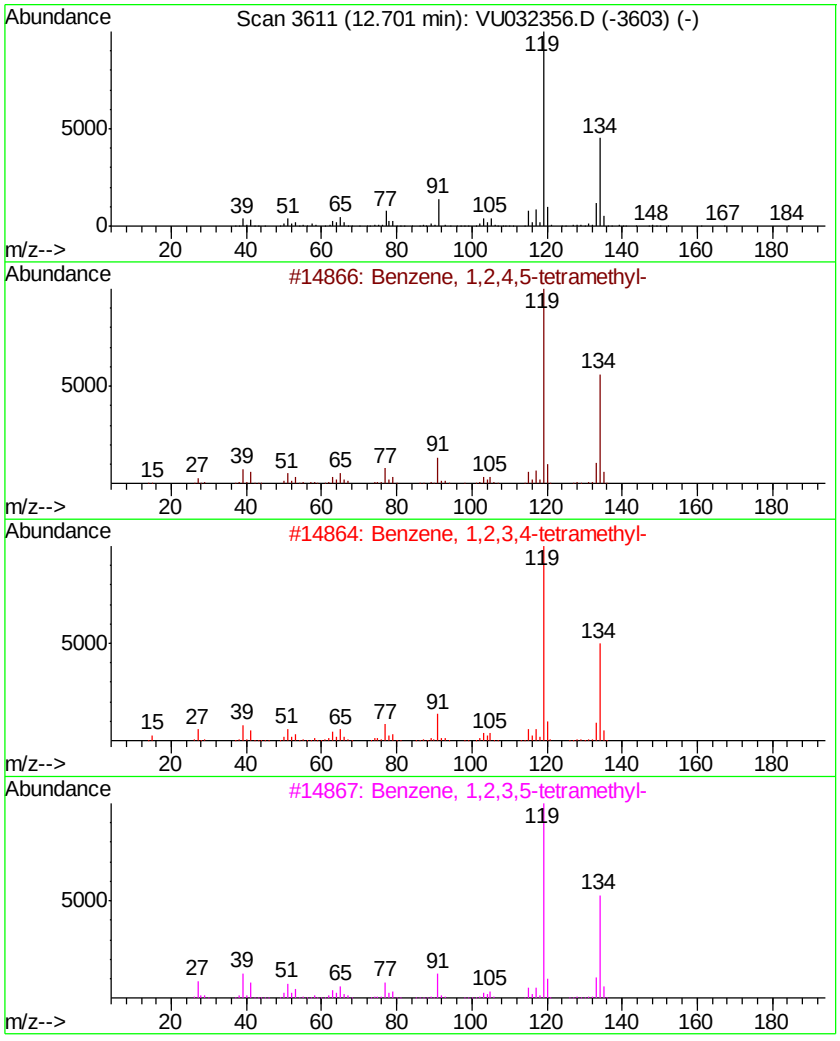
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

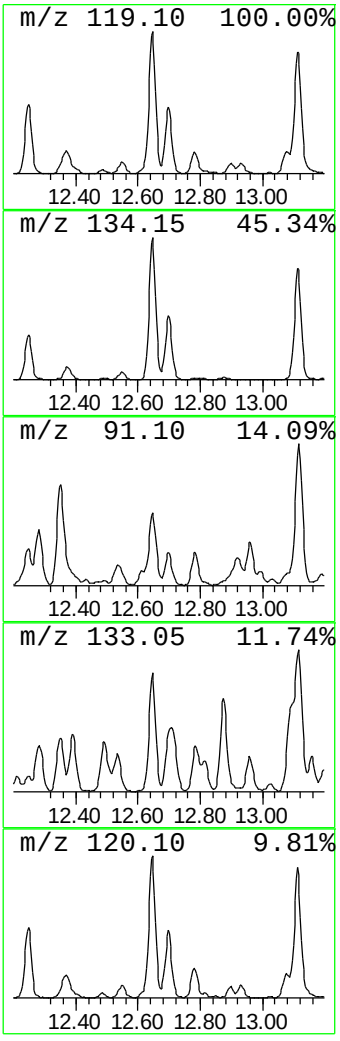
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 52 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	4.10 ug/L	984412	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95





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Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

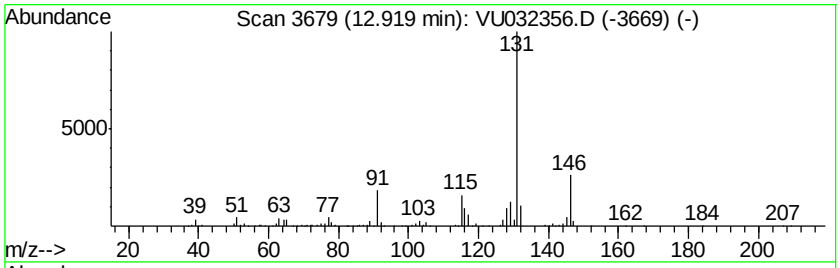
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

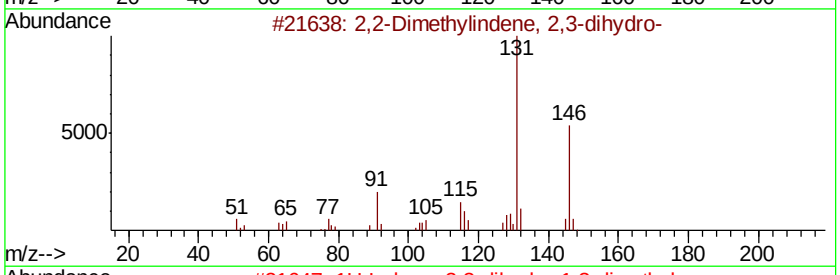
****

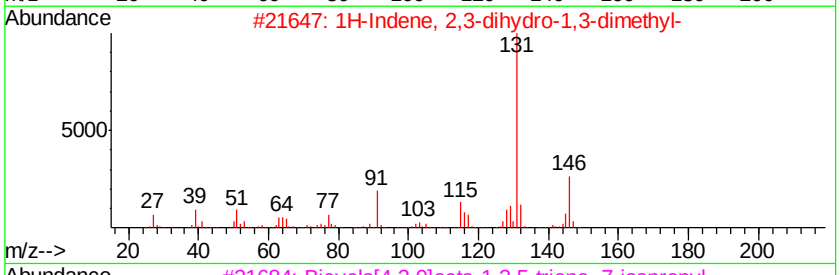
Peak Number 54 2,2-Dimethylindene, 2,3-dih... Concentration Rank 46

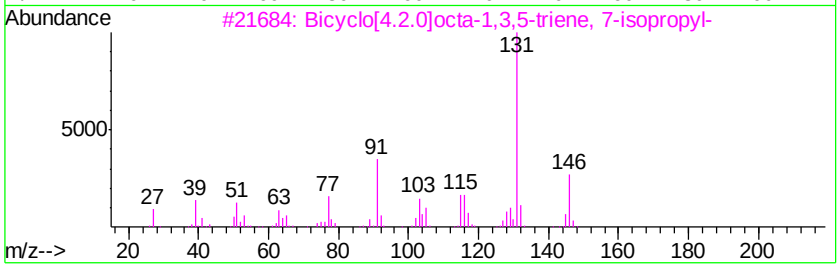
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	2.03 ug/L	488355	1,4-Dichlorobenzene-d4	11.48

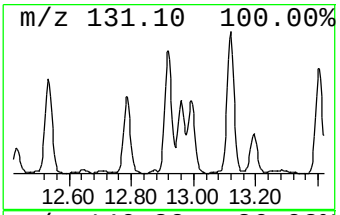
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	94
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	91
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	91
5	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	90

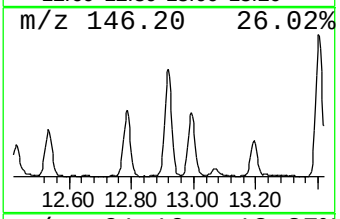


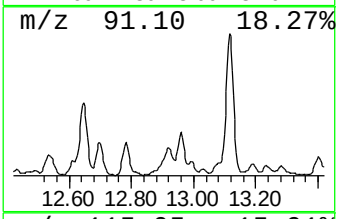


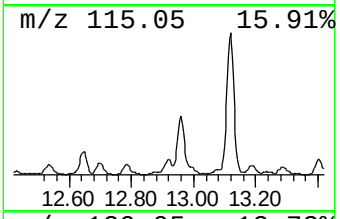


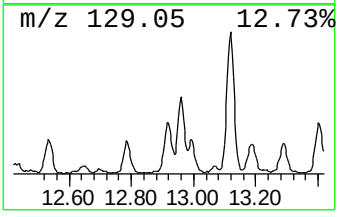












Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

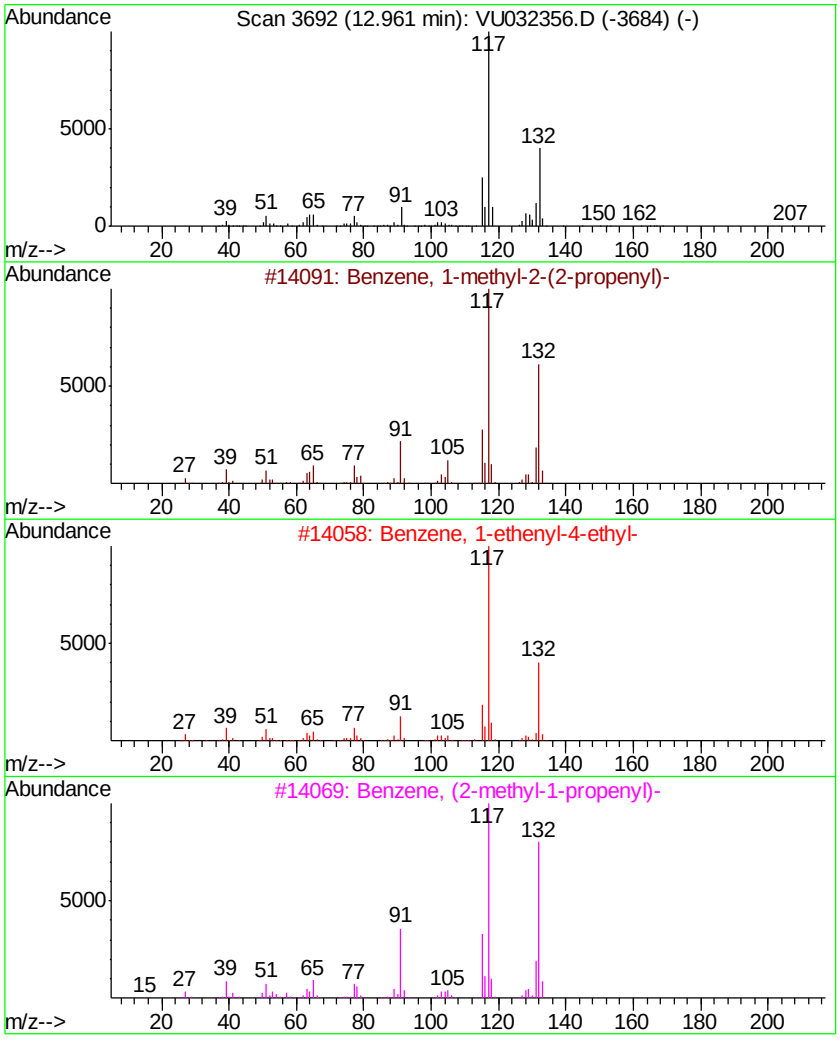
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

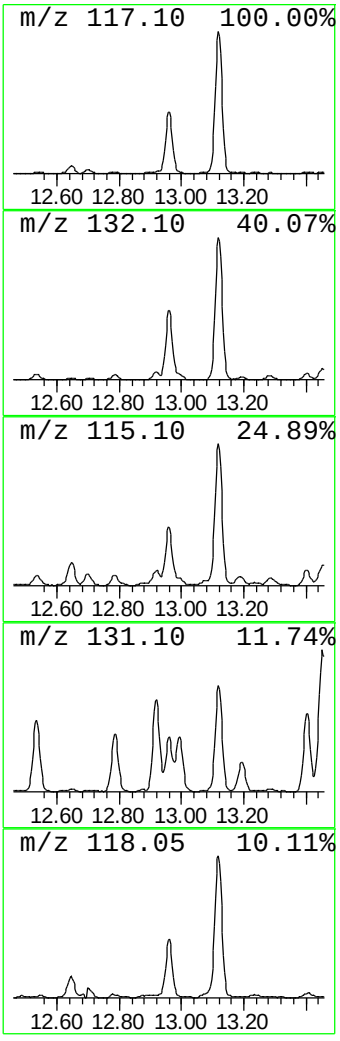
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 55 Benzene, 1-methyl-2-(2-prop... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	4.49 ug/L	1077740	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	87
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	87
5	Indan, 1-methyl-	132	C10H12	000767-58-8	87





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

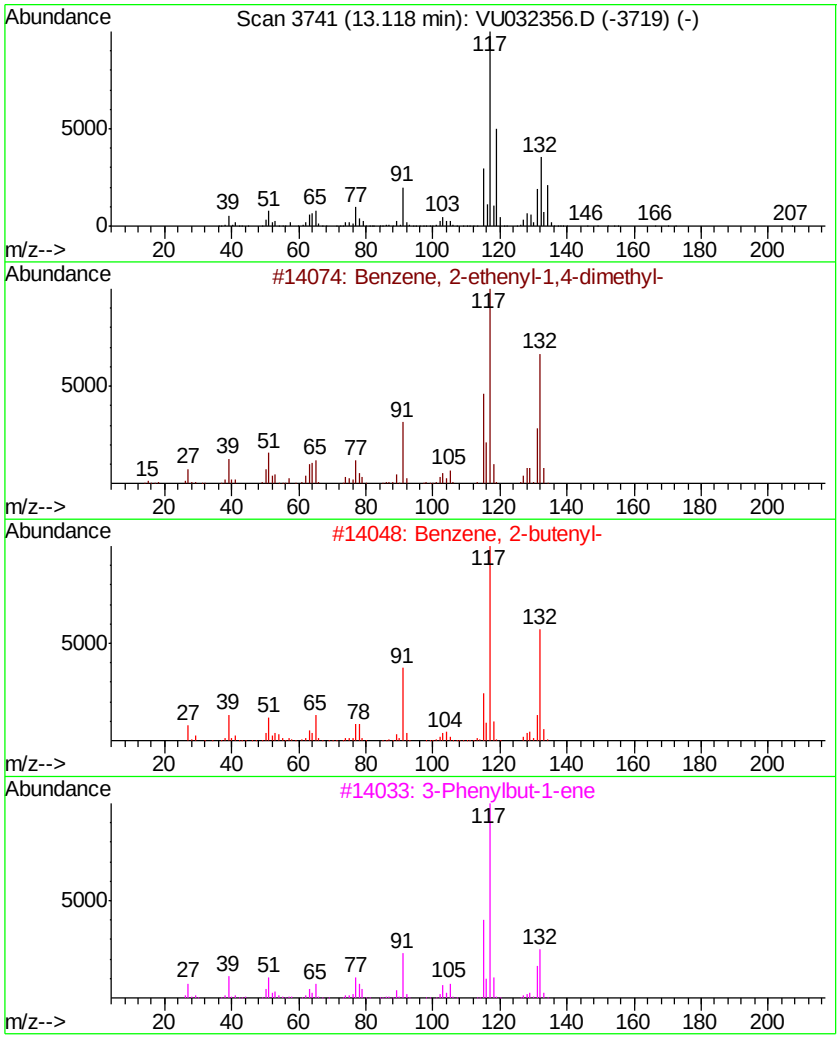
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

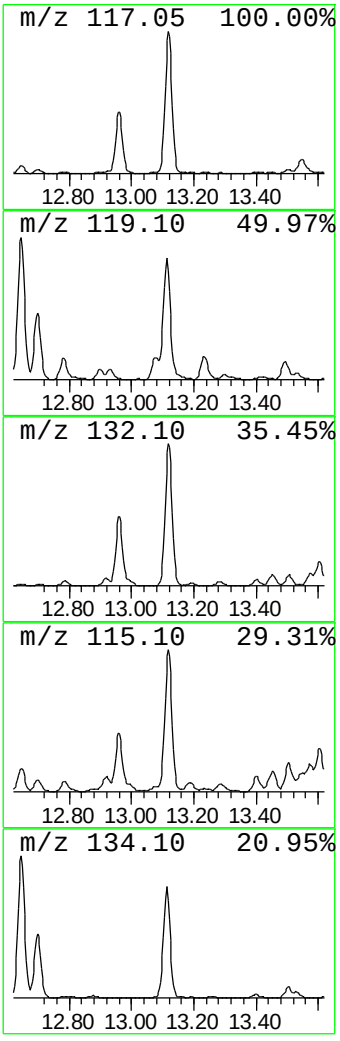
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 56 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	22.00 ug/L	5279830	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	70
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

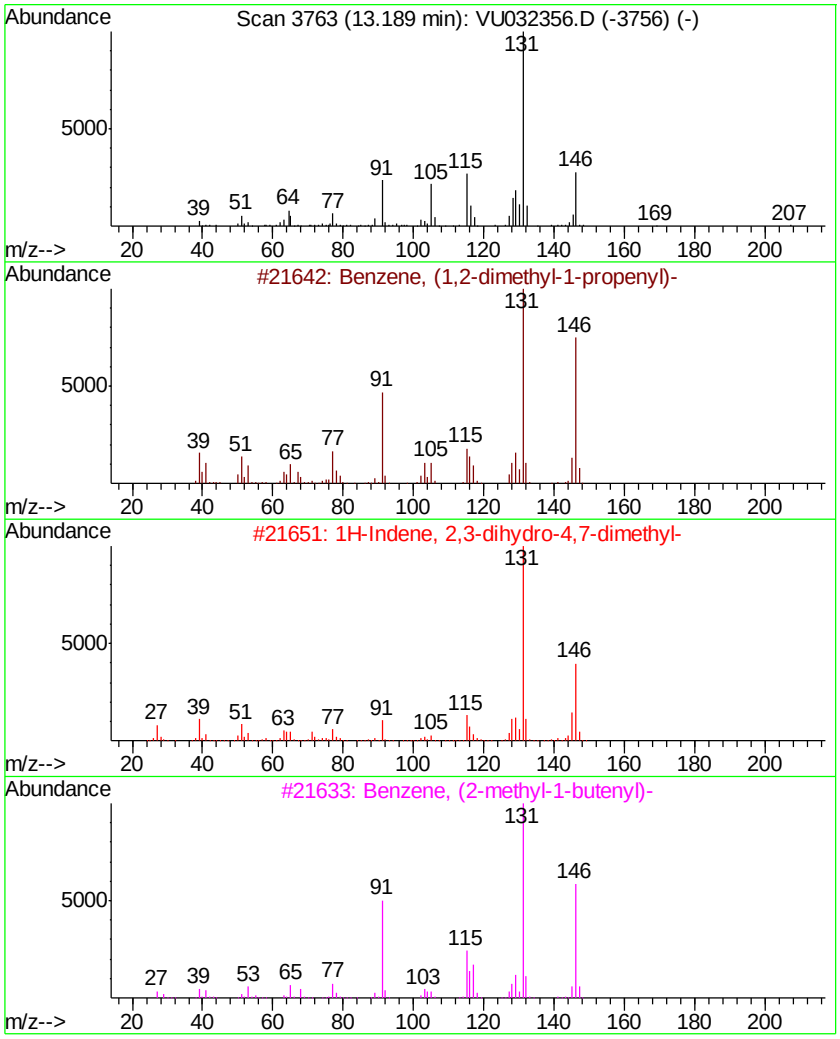
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

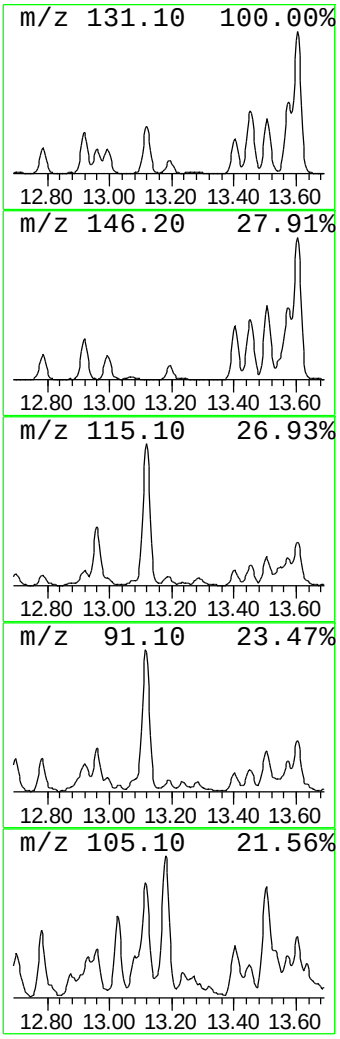
****

Peak Number 57 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	1.09 ug/L	262316	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	90
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	87
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	81
4	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	74
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	74





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

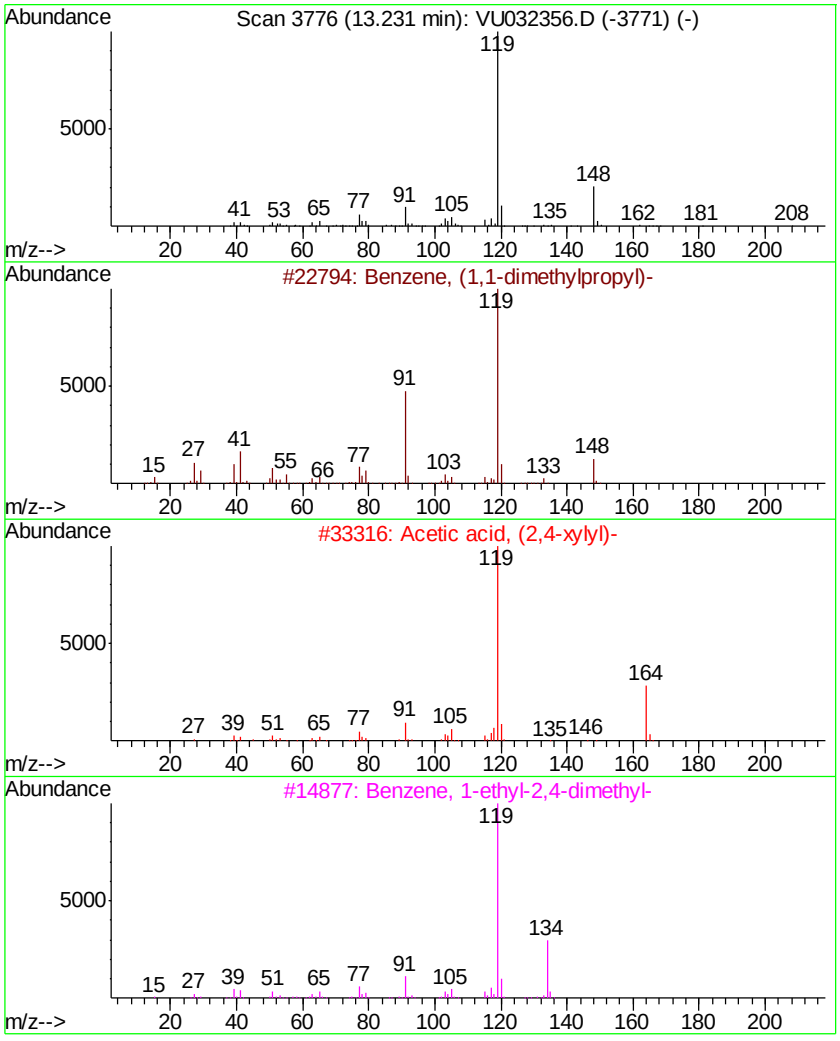
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

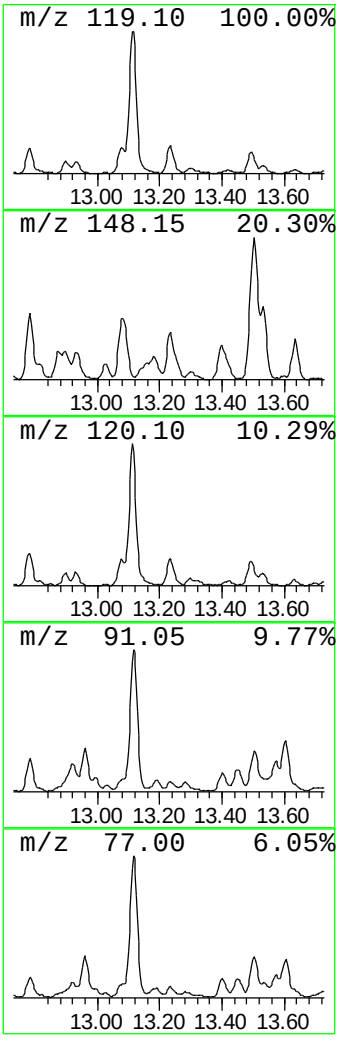
****

Peak Number 58 Benzene, (1,1-dimethylpropyl)- Concentration Rank 77

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	0.91 ug/L	218608	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	72
2	Acetic acid, (2,4-xylyl)-	164	C10H12O2	006331-04-0	59
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	59
4	2,4-Dimethylphenethyl alcohol	150	C10H14O	006597-59-7	58
5	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	56





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

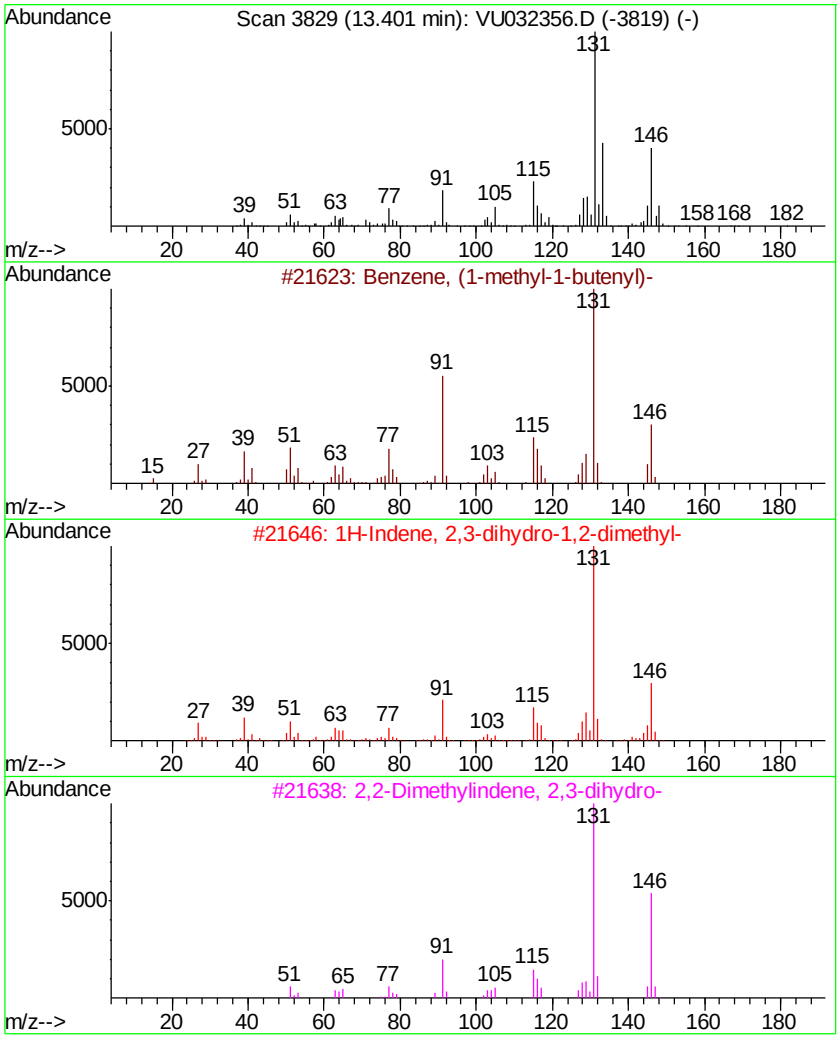
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

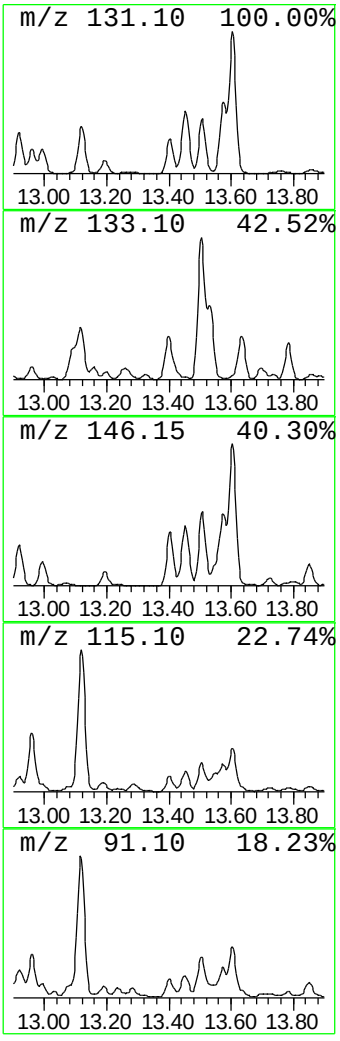
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 59 Benzene, (1-methyl-1-butenyl)- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	3.04 ug/L	730178	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	93
2	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	90
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	89
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	89
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	86





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

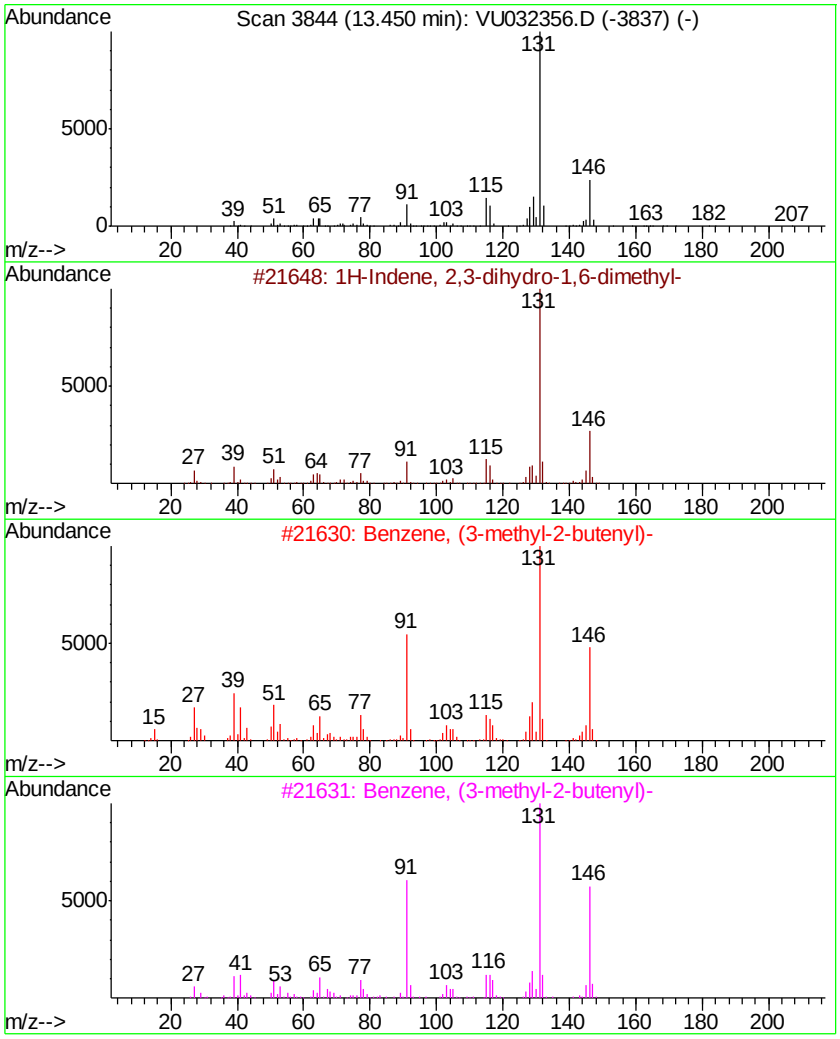
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

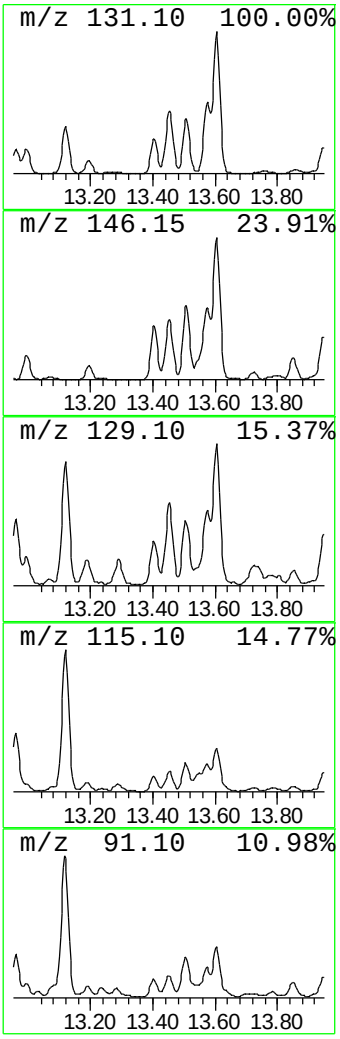
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 60 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.45	2.43 ug/L	584394	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	94
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	94
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	91
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	91





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

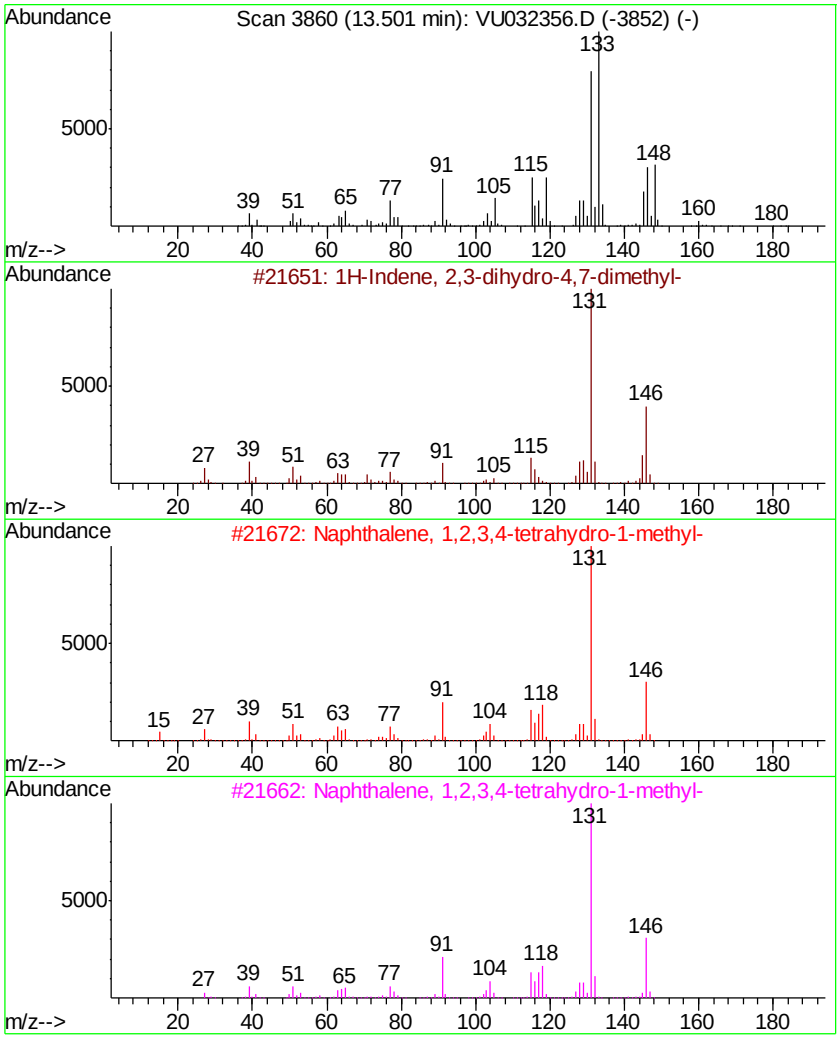
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

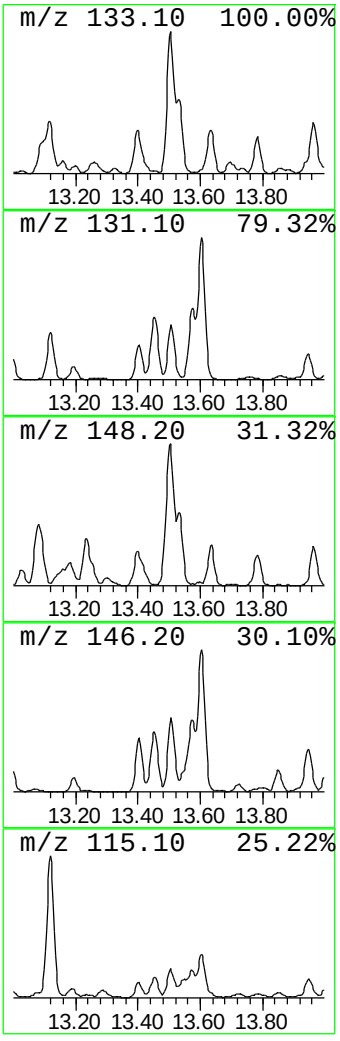
****

Peak Number 61 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	5.62 ug/L	1349980	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	89
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	50
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	50
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	50
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

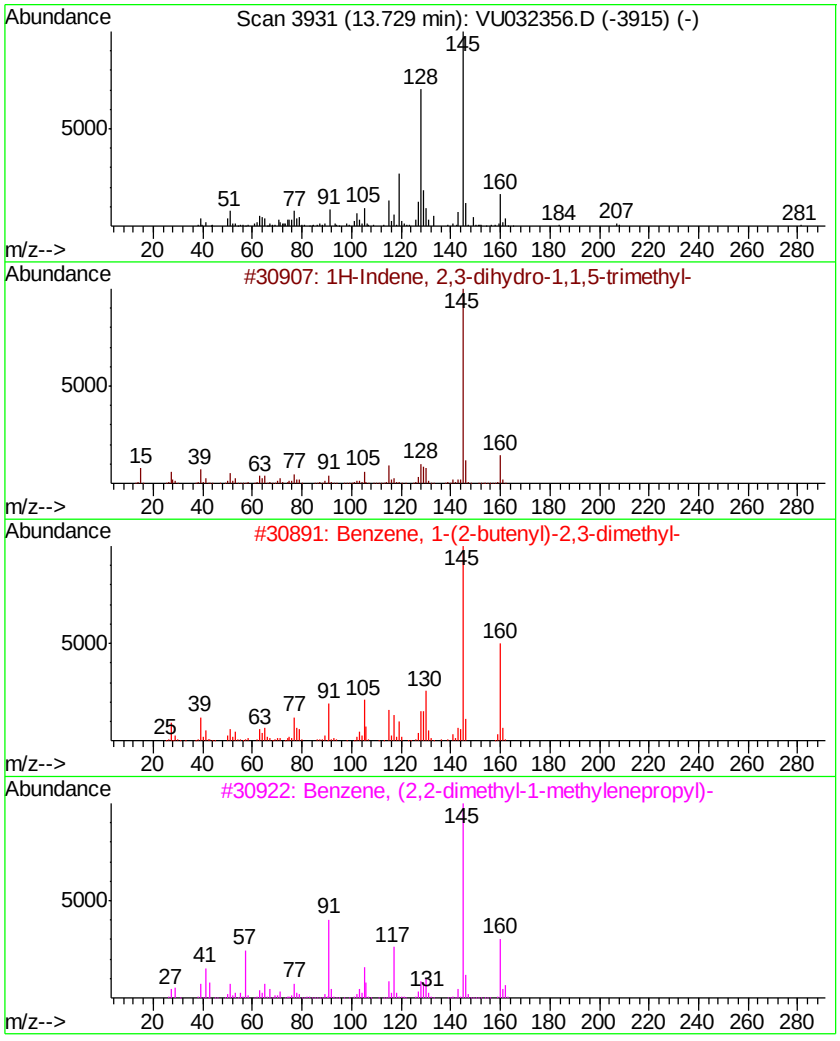
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

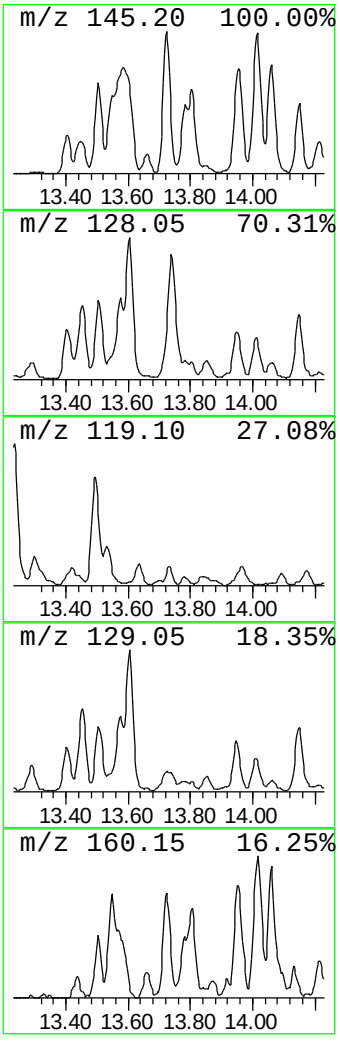
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 64 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	1.57 ug/L	376271	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1,5-tri...	160	C12H16	040650-41-7	64
2	Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	58
3	Benzene, (2,2-dimethyl-1-methyle...	160	C12H16	005676-29-9	53
4	Benzene, 1-(1-methylethenyl)-2-(...	160	C12H16	005557-93-7	52
5	Benzene, 1-(1-methylethenyl)-3-(...	160	C12H16	001129-29-9	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052919\
Data File : VU032356.D
Acq On : 29 May 2019 13:16
Operator : JC/SP
Sample : K3045-10
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.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: Str...	1.31	4.1	ug/L	750043	1	5.88	914090	5.0
(DEL) Alkane: Str...	1.75	29.3	ug/L	5354030	1	5.88	914090	5.0
(DEL) Alkane: Str...	2.70	6.7	ug/L	1224870	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	2.78	4.3	ug/L	792848	1	5.88	914090	5.0
2-Butanol, 3-meth...	2.84	1.2	ug/L	218470	1	5.88	914090	5.0
(DEL) Alkane: Str...	2.99	8.8	ug/L	1615640	1	5.88	914090	5.0
(DEL) Alkane: Str...	3.98	1.0	ug/L	175189	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	4.08	5.8	ug/L	1056830	1	5.88	914090	5.0
(DEL) Alkane: Str...	4.72	1.2	ug/L	215557	1	5.88	914090	5.0
(DEL) Alkane: Str...	5.07	3.9	ug/L	705237	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	5.25	3.7	ug/L	670832	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	5.47	4.9	ug/L	897904	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	5.54	4.8	ug/L	885822	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	5.61	4.3	ug/L	779080	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	6.39	4.8	ug/L	871810	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	6.73	2.5	ug/L	453713	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	6.83	1.1	ug/L	210606	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	6.90	3.8	ug/L	689685	1	5.88	914090	5.0
(DEL) Alkane: Str...	7.05	4.3	ug/L	780179	1	5.88	914090	5.0
1-Amino-3-methyl-...	7.43	1.3	ug/L	237258	1	5.88	914090	5.0
(DEL) Alkane: Cyc...	7.70	3.5	ug/L	726177	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	7.91	5.5	ug/L	1134850	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	8.04	3.3	ug/L	686095	2	9.09	1035130	5.0
Cyclopentene, 1,2...	8.09	1.7	ug/L	350352	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	8.48	1.7	ug/L	343852	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	8.60	2.0	ug/L	407148	2	9.09	1035130	5.0
Cyclohexene, 1,2-...	8.76	1.5	ug/L	308715	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	8.84	1.2	ug/L	247391	2	9.09	1035130	5.0
2-Hexanol, 2,3-di...	9.03	1.2	ug/L	239678	2	9.09	1035130	5.0
Pentalene, octahy...	9.18	1.7	ug/L	355850	2	9.09	1035130	5.0
Cyclohexene, 3-me...	9.57	1.1	ug/L	217613	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	9.71	2.4	ug/L	497285	2	9.09	1035130	5.0
Propylidencyclohe...	9.95	2.9	ug/L	608451	2	9.09	1035130	5.0
(DEL) Alkane: Cyc...	10.04	1.2	ug/L	252543	2	9.09	1035130	5.0
Benzene, 1-ethyl-...	10.97	1.6	ug/L	375154	3	11.48	1200150	5.0
Benzene, (2-methy...	11.29	1.9	ug/L	443562	3	11.48	1200150	5.0
Benzene, 1,2,3-tr...	11.57	1.4	ug/L	341939	3	11.48	1200150	5.0
Indane	11.76	57.3	ug/L	13745700	3	11.48	1200150	5.0
Benzene, 1,2-diet...	11.98	2.5	ug/L	594759	3	11.48	1200150	5.0
Benzene, 1-methyl...	12.05	2.5	ug/L	613109	3	11.48	1200150	5.0
Benzene, 2-ethyl-...	12.25	3.7	ug/L	888944	3	11.48	1200150	5.0
Benzene, (1-methy...	12.28	6.5	ug/L	1572770	3	11.48	1200150	5.0
Indan, 1-methyl-	12.35	13.7	ug/L	3296660	3	11.48	1200150	5.0
1H-Indene, 2,3-di...	12.54	2.4	ug/L	586036	3	11.48	1200150	5.0
Benzene, 1,2,4,5-...	12.70	4.1	ug/L	984412	3	11.48	1200150	5.0
2,2-Dimethylinden...	12.92	2.0	ug/L	488355	3	11.48	1200150	5.0
Benzene, 1-methyl...	12.96	4.5	ug/L	1077740	3	11.48	1200150	5.0
Benzene, 2-etheny...	13.12	22.0	ug/L	5279830	3	11.48	1200150	5.0
Benzene, (1,2-dim...	13.19	1.1	ug/L	262316	3	11.48	1200150	5.0

Benzene, (1,1-dim...	13.23	0.9	ug/L	218608	3	11.48	1200150	5.0
Benzene, (1-methy...	13.40	3.0	ug/L	730178	3	11.48	1200150	5.0
1H-Indene, 2,3-di...	13.45	2.4	ug/L	584394	3	11.48	1200150	5.0
1H-Indene, 2,3-di...	13.50	5.6	ug/L	1349980	3	11.48	1200150	5.0
1H-Indene, 2,3-di...	13.73	1.6	ug/L	376271	3	11.48	1200150	5.0

Instrument :
MSVOA_U
ClientSampleId :
C0C54