LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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	2.302	356	377	397	rBV2	1093198	2582532	6.14%	1.201%
2	2.701	484	501	523	rBV	2764942	5628140	13.38%	2.616%
3	2.987	575	590	610	rVB	437682	915450	2.18%	0.426%
4	3.839	834	855	873	rBV2	258264	718037	1.71%	0.334%
5	3.981	874	899	921	rVV	663324	1866727	4.44%	0.868%
6	4.193	945	965	1008	rVB4	311248	1084953	2.58%	0.504%
7	4.643	1090	1105	1116	rBV	239097	556721	1.32%	0.259%
8	4.723	1116	1130	1158	rVB	472315	1285849	3.06%	0.598%
9	5.071	1219	1238	1264	rBV	2405084	5830070	13.86%	2.710%
10	5.247	1271	1293	1304	rBV3	476831	1196316	2.84%	0.556%
11	5.334	1305	1320	1328	rVV2	510757	1347446	3.20%	0.626%
12	5.383	1329	1335	1350	rVV	429212	901982	2.14%	0.419%
13	5.476	1350	1364	1370	rVV2	697910	1550320	3.69%	0.721%
14	5.530	1371	1381	1398	rVV2	1764285	4527521	10.76%	2.105%
15	5.881	1476	1490	1505	rBV	461157	918726	2.18%	0.427%
16	6.328	1618	1629	1637	rBV	297674	560533	1.33%	0.261%
17	6.386	1637	1647	1661	rVB2	439016	920613	2.19%	0.428%
18	6.469	1661	1673	1681	rBV	228963	433876	1.03%	0.202%
19	6.527	1681	1691	1700	rVV	397335	779813	1.85%	0.363%
20	6.730	1739	1754	1768	rVB3	501788	1118091	2.66%	0.520%
21	6.919	1793	1813	1831	rVB2	1437955	3274626	7.78%	1.522%
22	7.042	1835	1851	1863	rBV	2235721	4636984	11.02%	2.156%
23	7.100	1863	1869	1878	rVB3	275731	447142	1.06%	0.208%
24	7.222	1894	1907	1912	rBV3	297988	602711	1.43%	0.280%
25	7.530	1987	2003	2006	rBV5	563634	1062151	2.52%	0.494%
26	7.559	2008	2012	2025	rVB	733519	1115506	2.65%	0.519%
27	7.701	2045	2056	2065	rBV5	324701	698763	1.66%	0.325%
28	7.913	2112	2122	2143	rVB2	529790	1126353	2.68%	0.524%
29	8.042	2143	2162	2169	rBV2	614849	1234040	2.93%	0.574%
30	8.090	2169	2177	2209	rVB	661335	1420061	3.38%	0.660%
31	8.312	2236	2246	2260	rBV	741238	1387962	3.30%	0.645%
32	8.482	2292	2299	2313	rVB2	281262	510317	1.21%	0.237%
33	8.755	2372	2384	2398	rBV3	268828	507170	1.21%	0.236%
34	9.087	2477	2487	2498	rBV	669856	1099959	2.61%	0.511%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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	9.180	2507	2516	2531	rBV2	265094	554934	1.32%	0.258%
36	9.357	2559	2571	2591	rVB2	179197	632472	1.50%	0.294%
37	9.710	2667	2681	2703	rBV4	185170	540669	1.29%	0.251%
38	10.161	2811	2821	2831	rBV	530184	860723	2.05%	0.400%
39	10.582	2943	2952	2971	rVB	475163	793043	1.89%	0.369%
40	11.096	3097	3112	3121	rBV	339132	585849	1.39%	0.272%
41	11.286	3159	3171	3175	rBV	1224734	1814546	4.31%	0.844%
42	11.318	3175	3181	3200	rVB	1964289	3144133	7.47%	1.462%
43	11.479	3222	3231	3253	rVB	759323	1282084	3.05%	0.596%
44	11.685	3282	3295	3306	rVB	579296	916015	2.18%	0.426%
45	11.765	3306	3320	3339	rVV3	23006637	42069694	100.00%	19.558%
46	11.858	3339	3349	3373	rVV2	3314807	5485211	13.04%	2.550%
47	11.977	3375	3386	3398	rVV	1049395	1630162	3.87%	0.758%
48	12.051	3399	3409	3422	rVB2	383973	608267	1.45%	0.283%
49	12.247	3453	3470	3471	rBV4	308749	525322	1.25%	0.244%
50	12.279	3472	3480	3491	rVB	3789006	5806786	13.80%	2.699%
51	12.350	3491	3502	3510	rBV	6682842	10439899	24.82%	4.853%
52	12.533	3551	3559	3573	rVB	871688	1391295	3.31%	0.647%
53	12.617	3574	3585	3586	rBV3	512693	622579	1.48%	0.289%
54	12.646	3586	3594	3603	rVV	2496025	4018916	9.55%	1.868%
55	12.697	3603	3610	3625	rVB2	724889	1319693	3.14%	0.614%
56	12.781	3625	3636	3655	rBV2	1911923	3179712	7.56%	1.478%
57	12.919	3656	3679	3686	rBV3	1336547	3046786	7.24%	1.416%
58	12.958	3686	3691	3697	rVV	873072	1255230	2.98%	0.584%
59	12.993	3698	3702	3709	rVB	519903	616258	1.46%	0.286%
60	13.077	3718	3728	3731	rBV2	512997	776356	1.85%	0.361%
61	13.119	3731	3741	3753	rVV2	11849539	18985338	45.13%	8.826%
62	13.189	3754	3763	3771	rVV3	541002	900158	2.14%	0.418%
63	13.234	3771	3777	3788	rBV2	311855	569292	1.35%	0.265%
64	13.402	3818	3829	3837	rBV2	1608468	2615707	6.22%	1.216%
65	13.453	3837	3845	3853	rVB	1194298	1669402	3.97%	0.776%
66	13.504	3853	3861	3869	rBV	3012802	4819221	11.46%	2.240%
67	13.572	3877	3882	3886	rBV	1133160	1404895	3.34%	0.653%
68	13.604	3887	3892	3914	rVB	3900129	6184972	14.70%	2.875%
69	13.726	3914	3930	3939	rBV4	377666	805300	1.91%	0.374%
70	13.784	3939	3948	3959	rBV2	501966	851706	2.02%	0.396%
71	13.848	3959	3968	3983	rVB3	1052144	1749148	4.16%	0.813%

LSC Area Percent Report

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Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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	13.948	3984	3999	4010	rBV3	1881381	3672595	8.73%	1.707%
73	14.009	4010	4018	4027	rVB3	1271613	1953819	4.64%	0.908%
74	14.057	4028	4033	4049	rVB3	261914	467614	1.11%	0.217%
75	14.147	4050	4061	4075	rBV	2343829	3799136	9.03%	1.766%
76	14.328	4106	4117	4130	rBV	1830939	3243045	7.71%	1.508%
77	14.472	4153	4162	4171	rBV2	831141	1257040	2.99%	0.584%
78	14.537	4172	4182	4194	rVB3	1663182	3070625	7.30%	1.427%
79	14.601	4194	4202	4213	rVB2	302807	475466	1.13%	0.221%
80	14.675	4213	4225	4239	rBV3	1167125	2382307	5.66%	1.107%
81	14.816	4260	4269	4274	rBV2	305049	490508	1.17%	0.228%
82	14.855	4274	4281	4294	rVV3	562881	993699	2.36%	0.462%
83	14.929	4295	4304	4319	rVB6	575583	1237247	2.94%	0.575%
84	15.067	4336	4347	4357	rBV4	335503	819403	1.95%	0.381%
85	15.241	4392	4401	4413	rVB4	202790	465412	1.11%	0.216%
86	15.582	4493	4507	4523	rVB3	519058	1146663	2.73%	0.533%
87	15.829	4568	4584	4595	rBV2	380973	805639	1.92%	0.375%
88	16.427	4760	4770	4780	rBV	311149	507697	1.21%	0.236%

Sum of corrected areas: 215107149

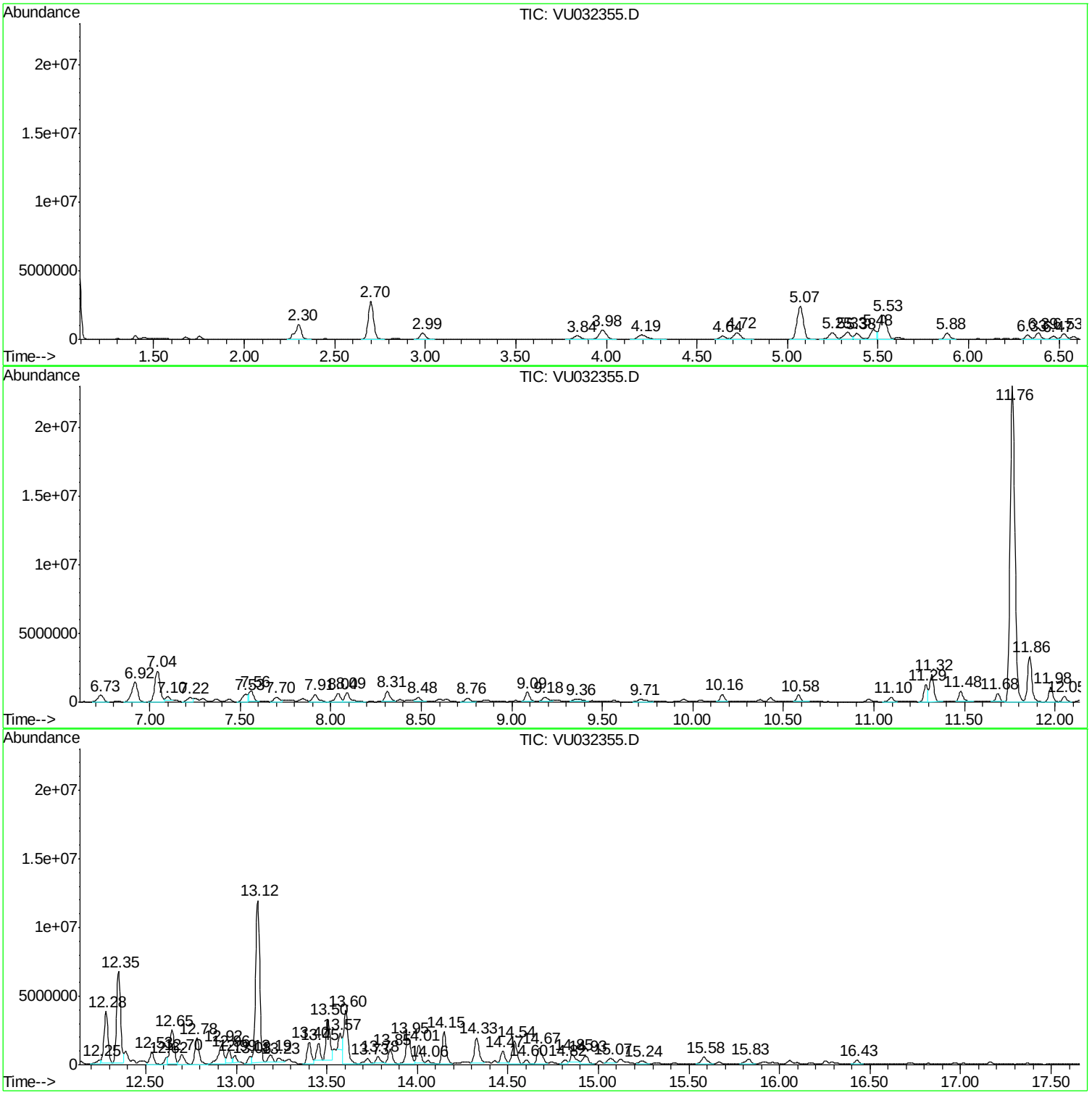
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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 : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

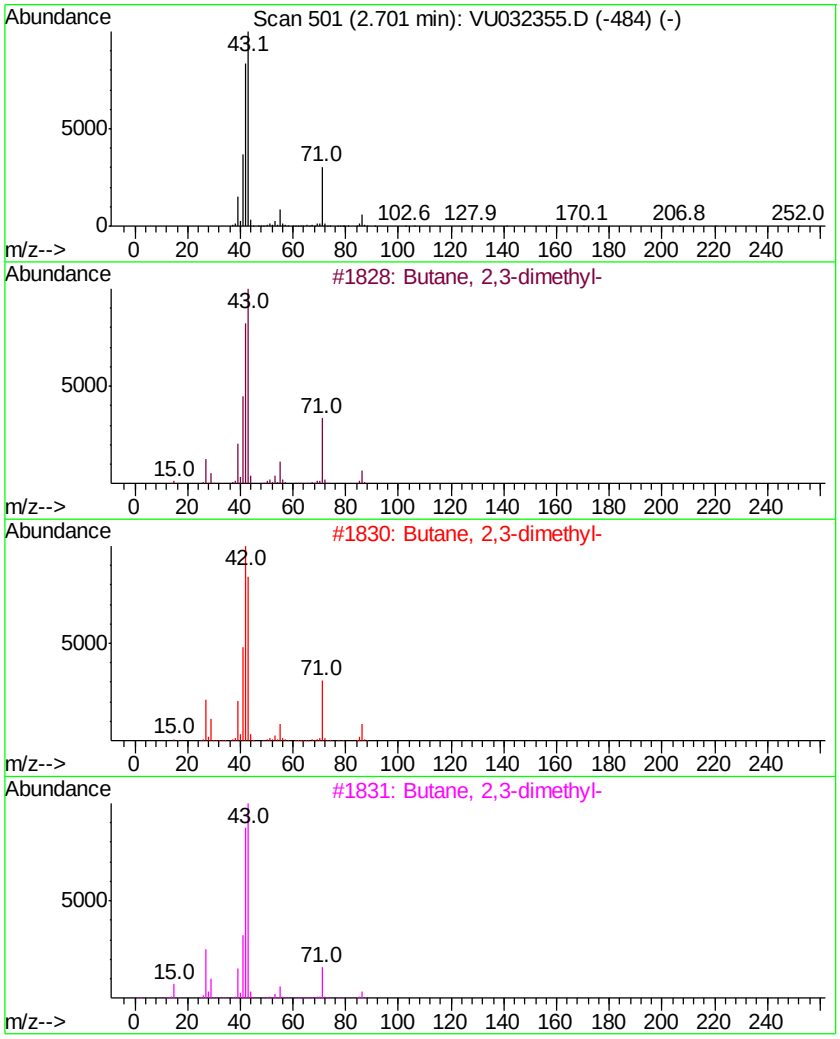
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

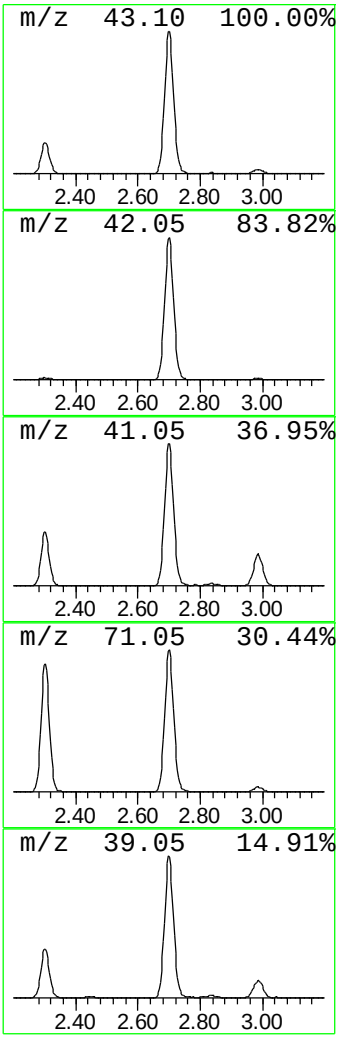
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	30.63 ug/L	5628140	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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

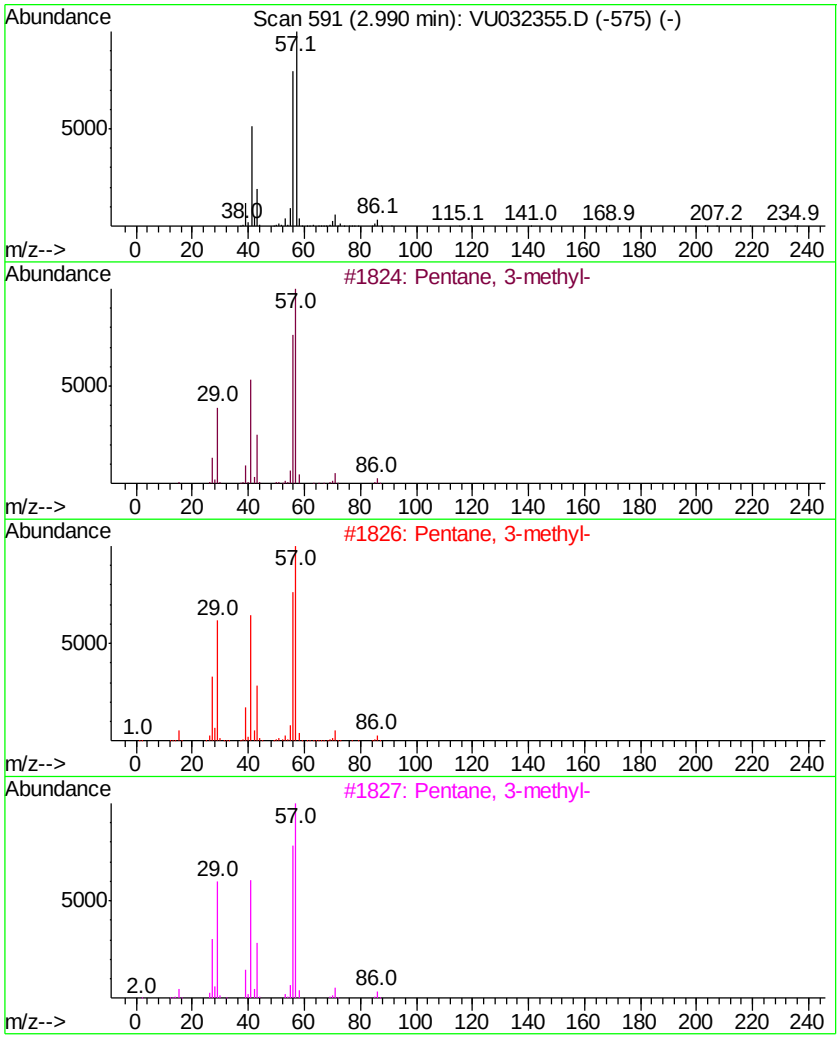
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

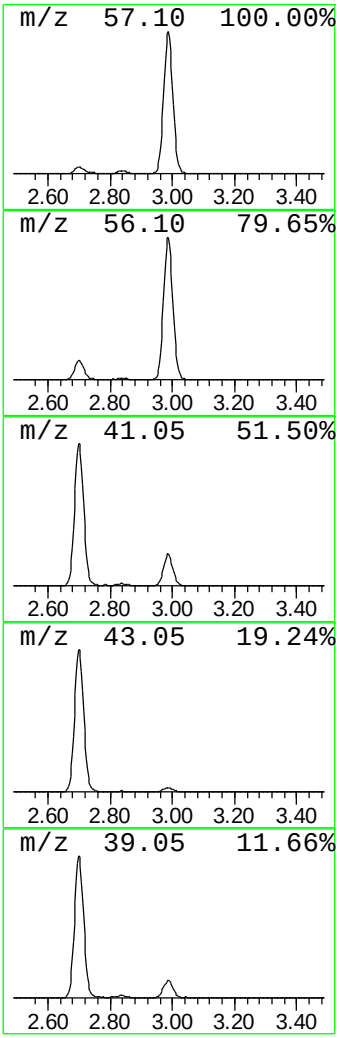
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	4.98 ug/L	915450	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	56





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

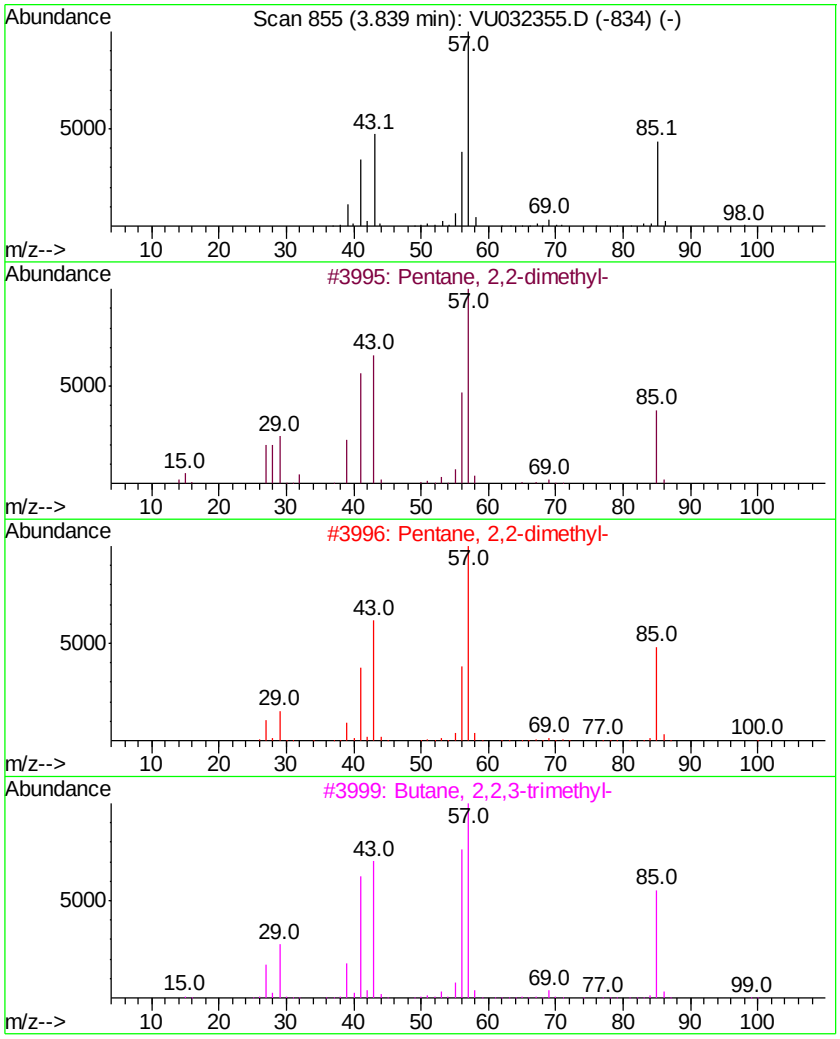
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

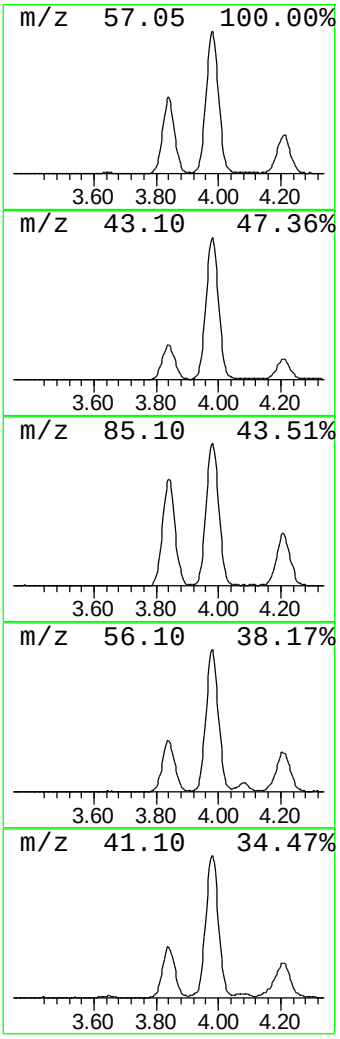
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.84	3.91 ug/L	718037	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	83
2	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	83
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	80
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	59
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

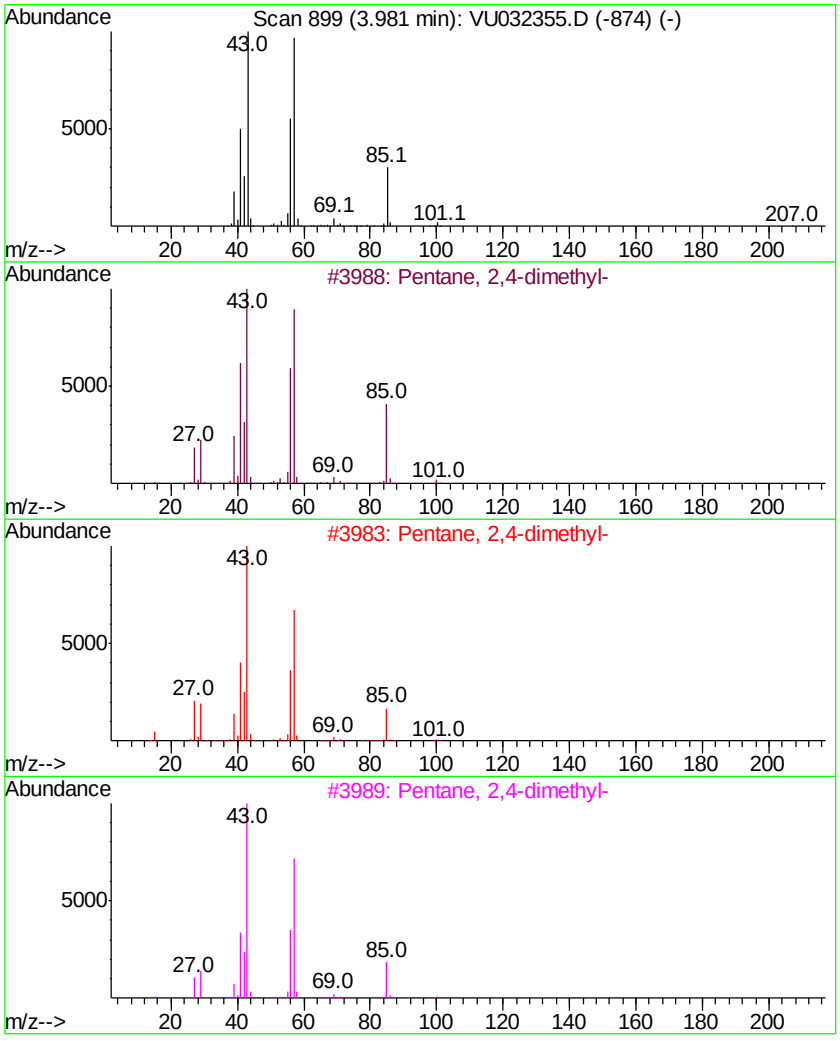
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

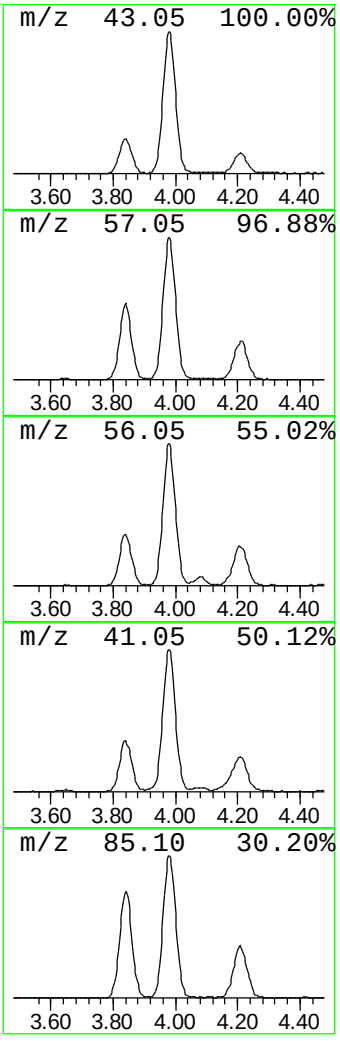
****

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	10.16 ug/L	1866730	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	94
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
4	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

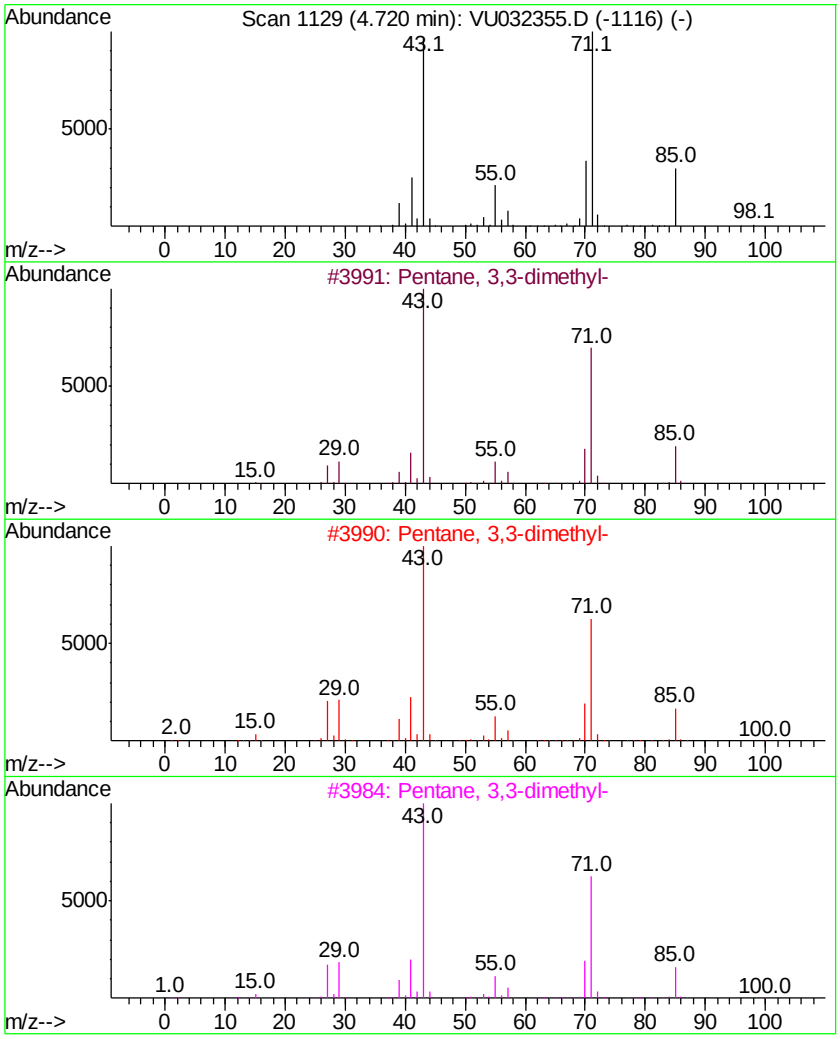
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

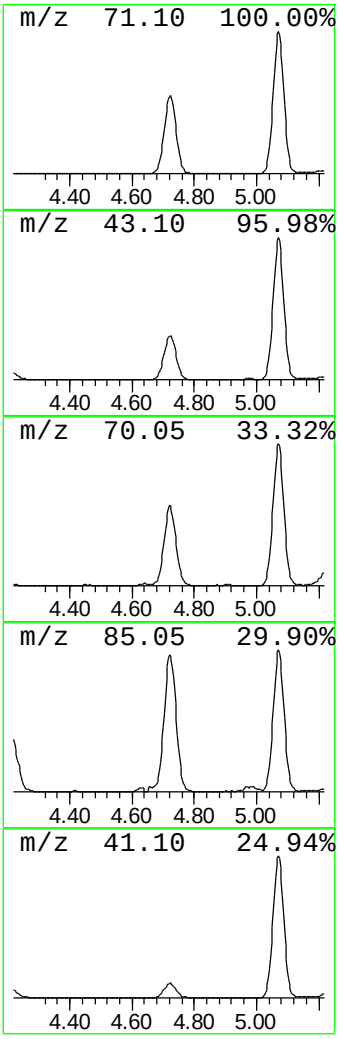
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	7.00 ug/L	1285850	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	83
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	83
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	72
4	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	64
5	Butane, 2-iodo-3-methyl-	198	C5H11I	018295-27-7	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

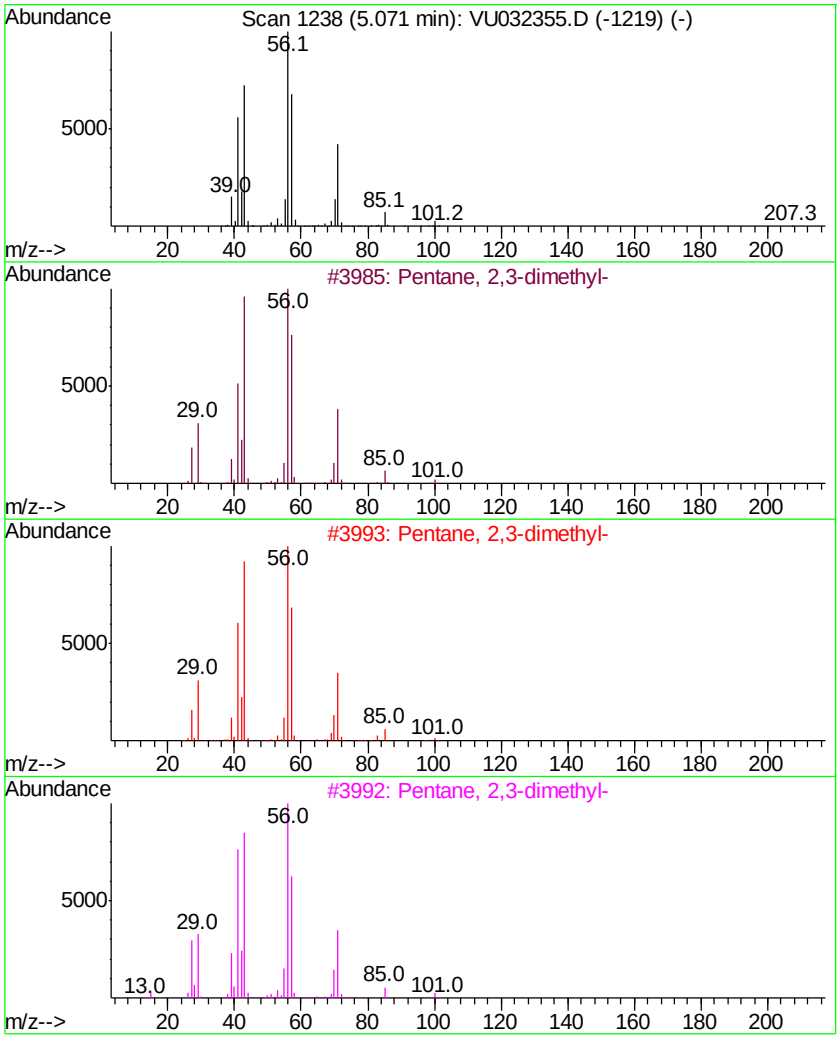
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

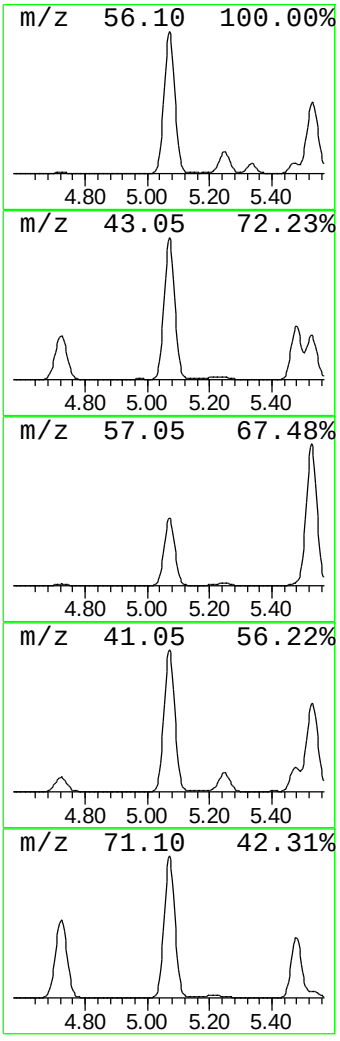
****

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	31.73 ug/L	5830070	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

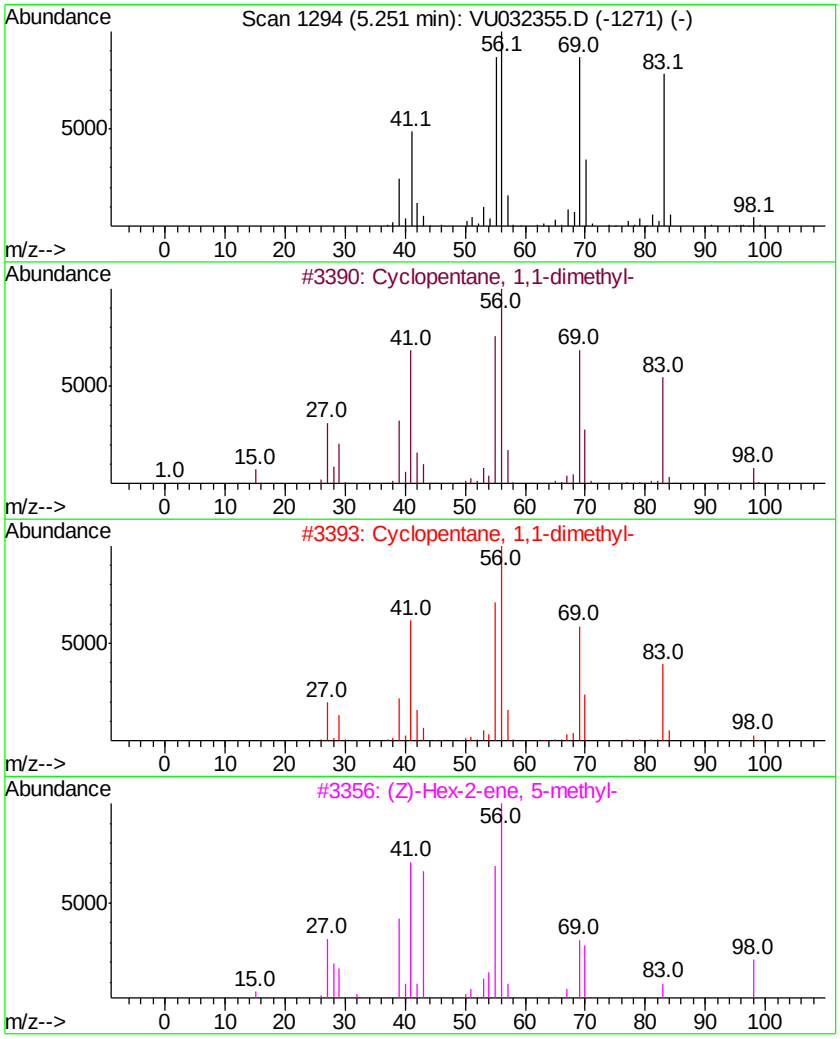
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

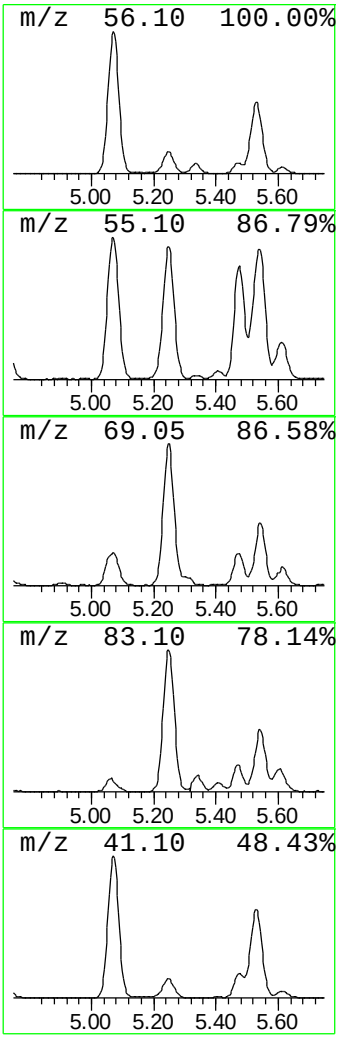
****

Peak Number 7 (DEL) Alkane: Cyclic5.25 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.25	6.51 ug/L	1196320	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	80
3	(Z)-Hex-2-ene, 5-methyl-	98	C7H14	013151-17-2	43
4	Cyclopropane, 1,1-diethyl-	98	C7H14	001003-19-6	38
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

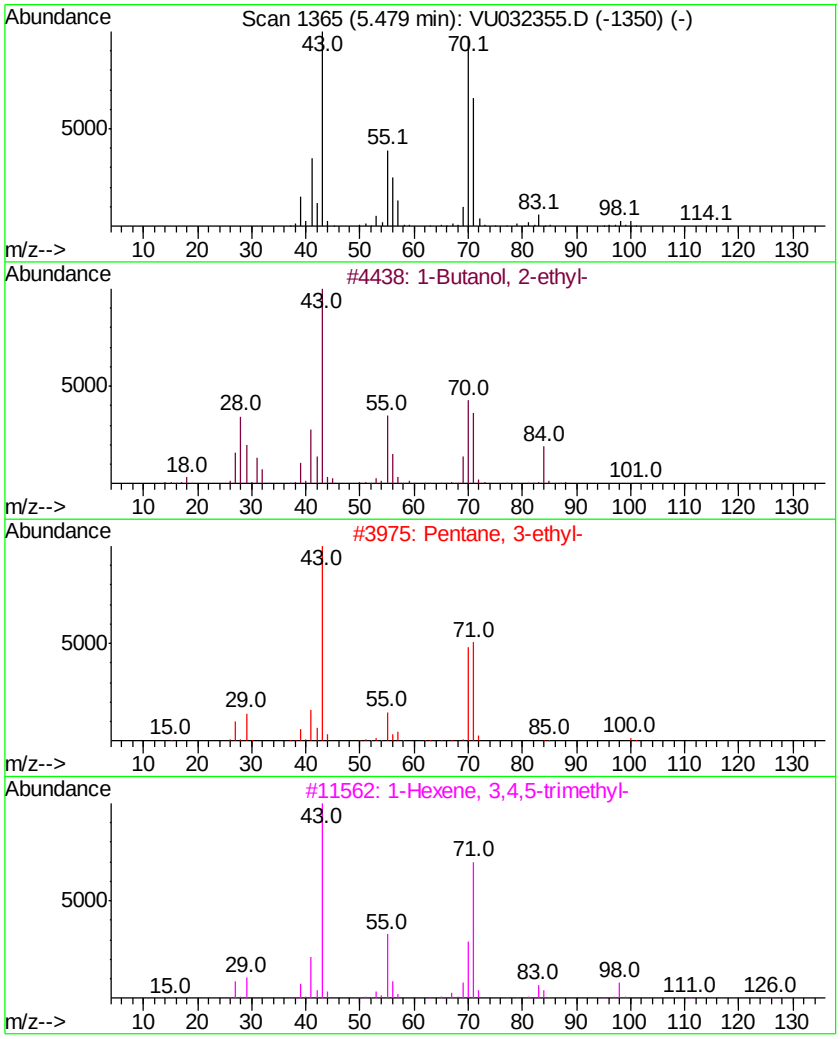
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

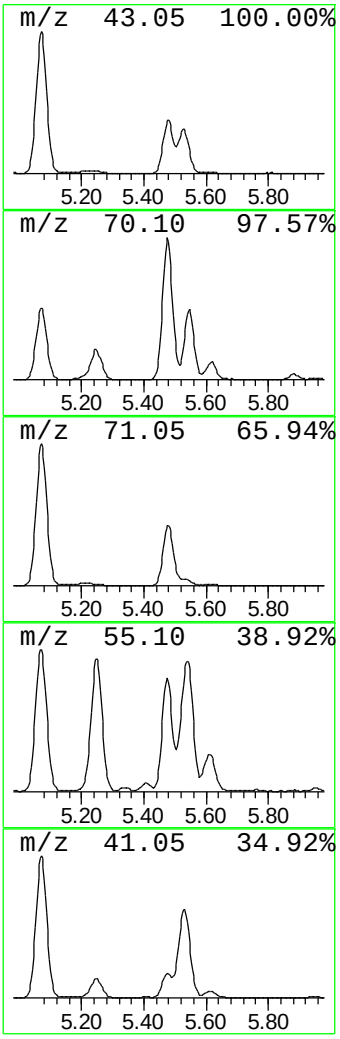
****

Peak Number 8 1-Butanol, 2-ethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	8.44 ug/L	1550320	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butanol, 2-ethyl-	102	C6H14O	000097-95-0	64
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	47
3	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43
4	Pentane, 3-ethyl-	100	C7H16	000617-78-7	43
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	42





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Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

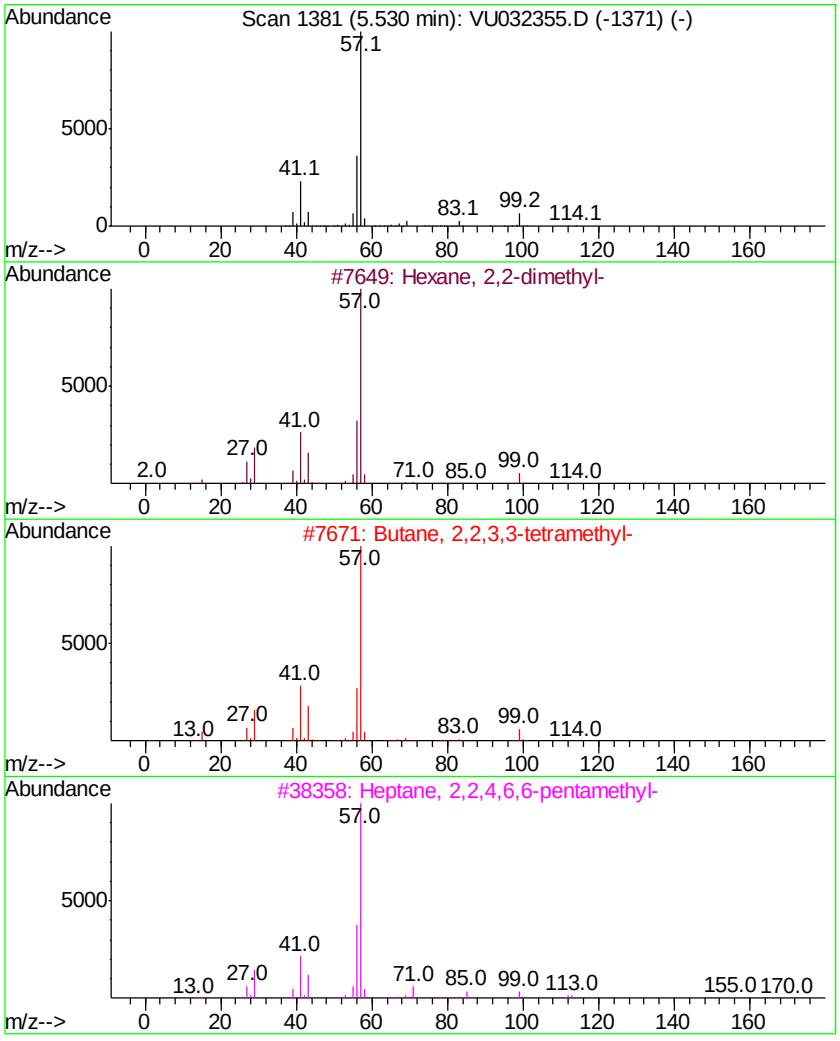
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

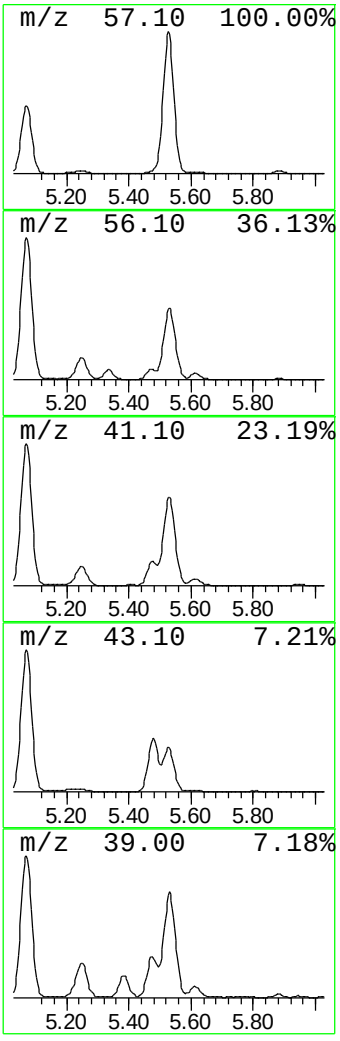
****

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	24.64 ug/L	4527520	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

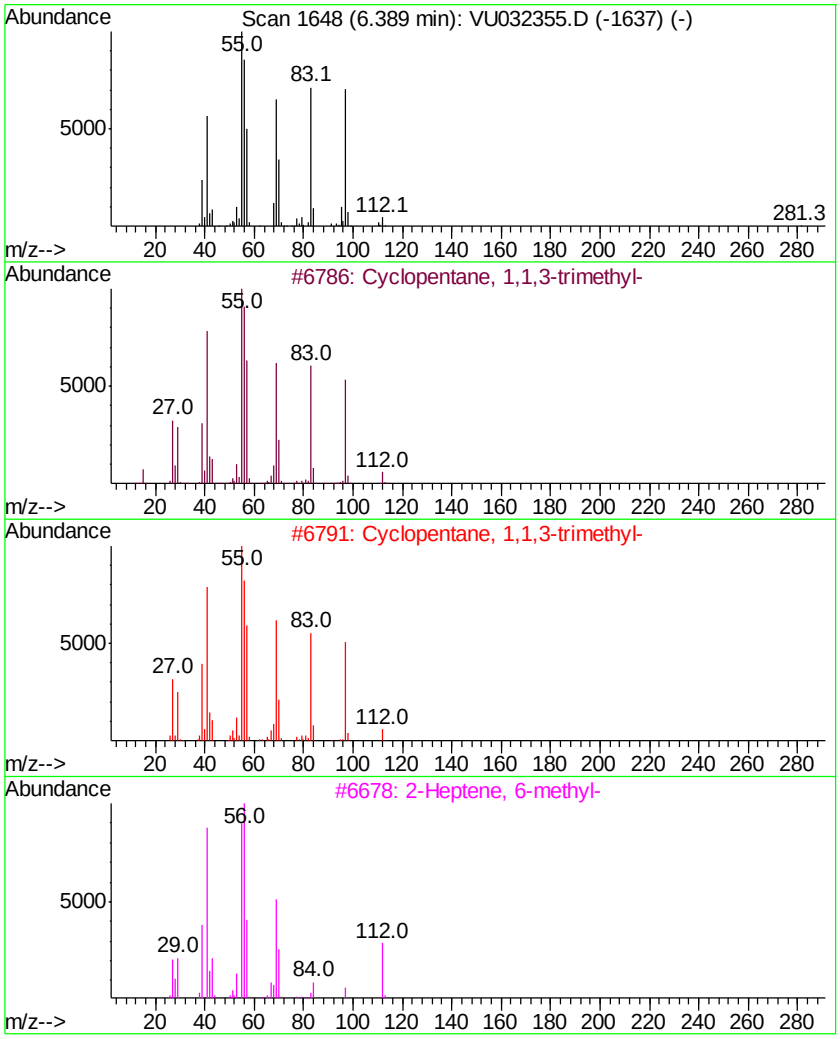
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

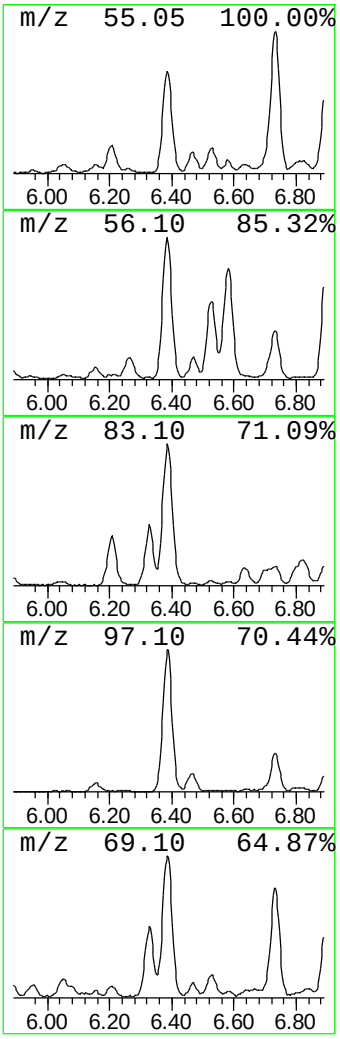
****

Peak Number 10 (DEL) Alkane: Cyclic6.39 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.39	5.01 ug/L	920613	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	91
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	53
3	2-Heptene, 6-methyl-	112	C8H16	073548-72-8	46
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	43
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

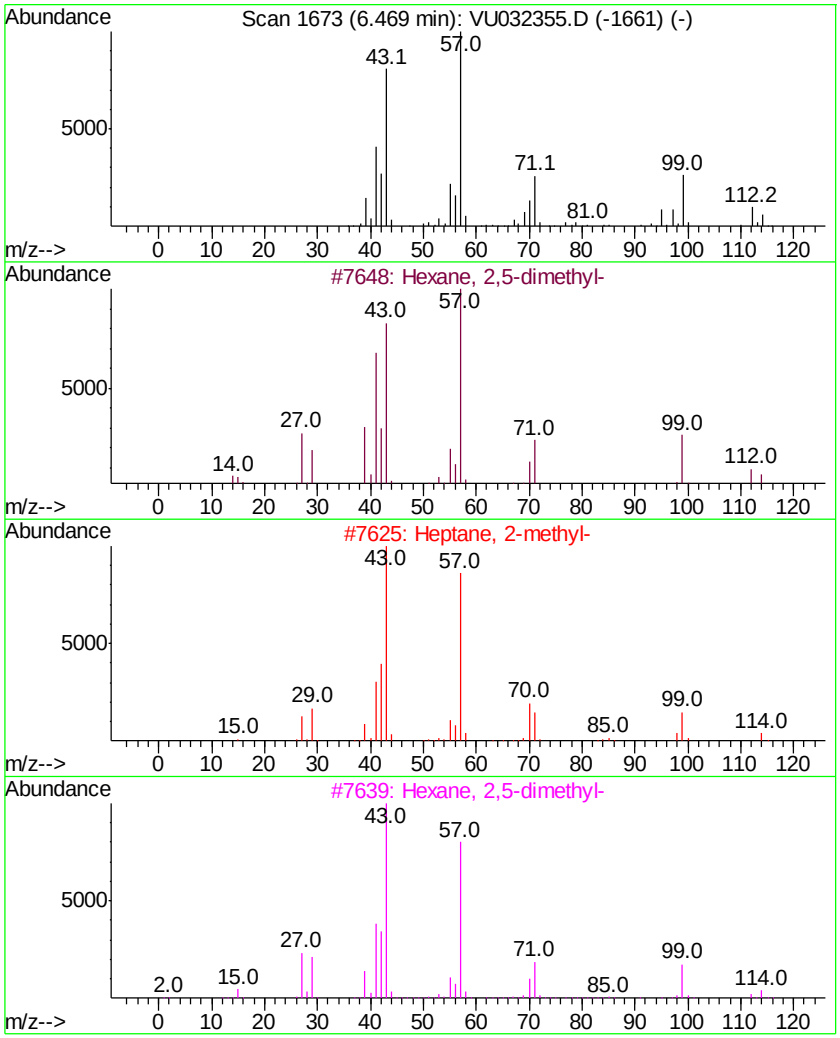
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

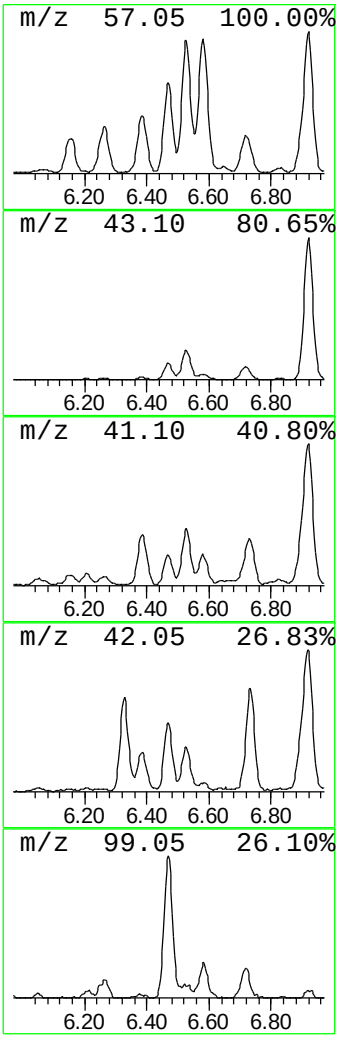
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	2.36 ug/L	433876	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	64
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	62
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Propanoic acid, 2,2-dimethyl-, o...	214	C13H26O2	027751-88-8	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

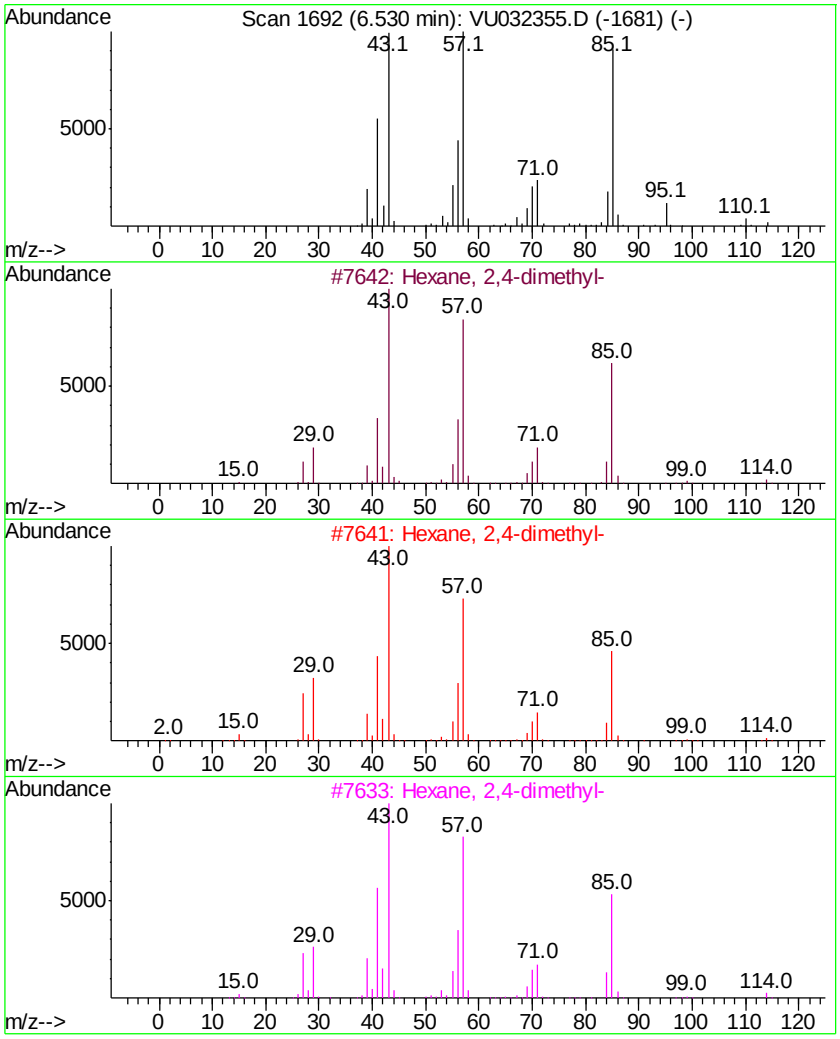
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

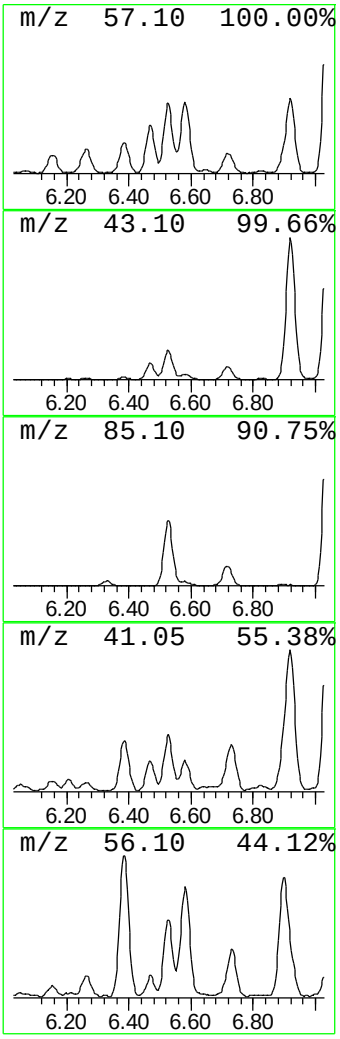
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	4.24 ug/L	779813	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	90
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	83
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
4	Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64
5	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

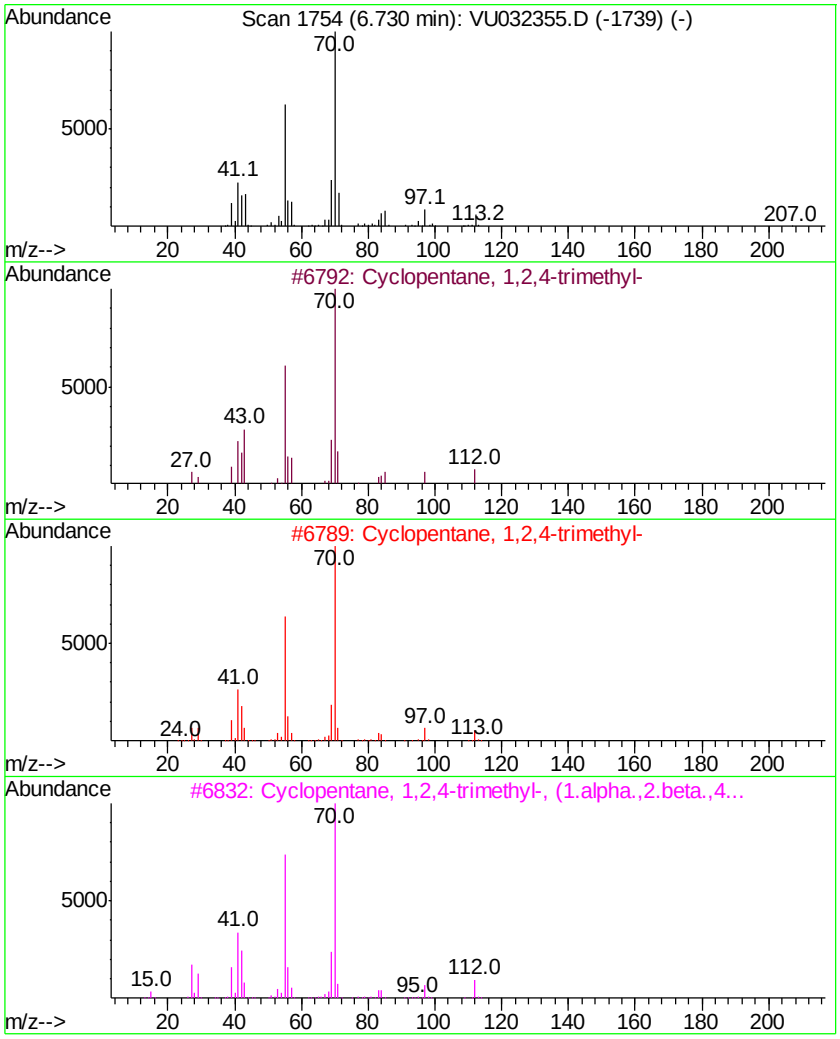
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

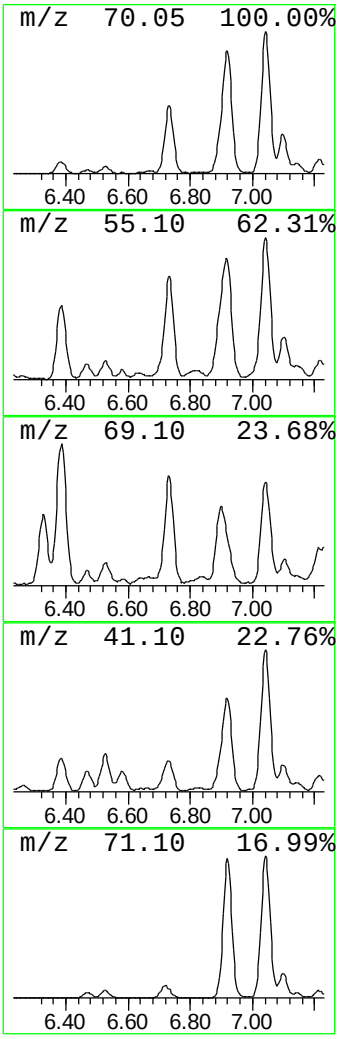
****

Peak Number 13 (DEL) Alkane: Cyclic6.73 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	6.09 ug/L	1118090	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	95
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	90
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	87
4	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	80
5	Undecane, 3-methylene-	168	C12H24	071138-64-2	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

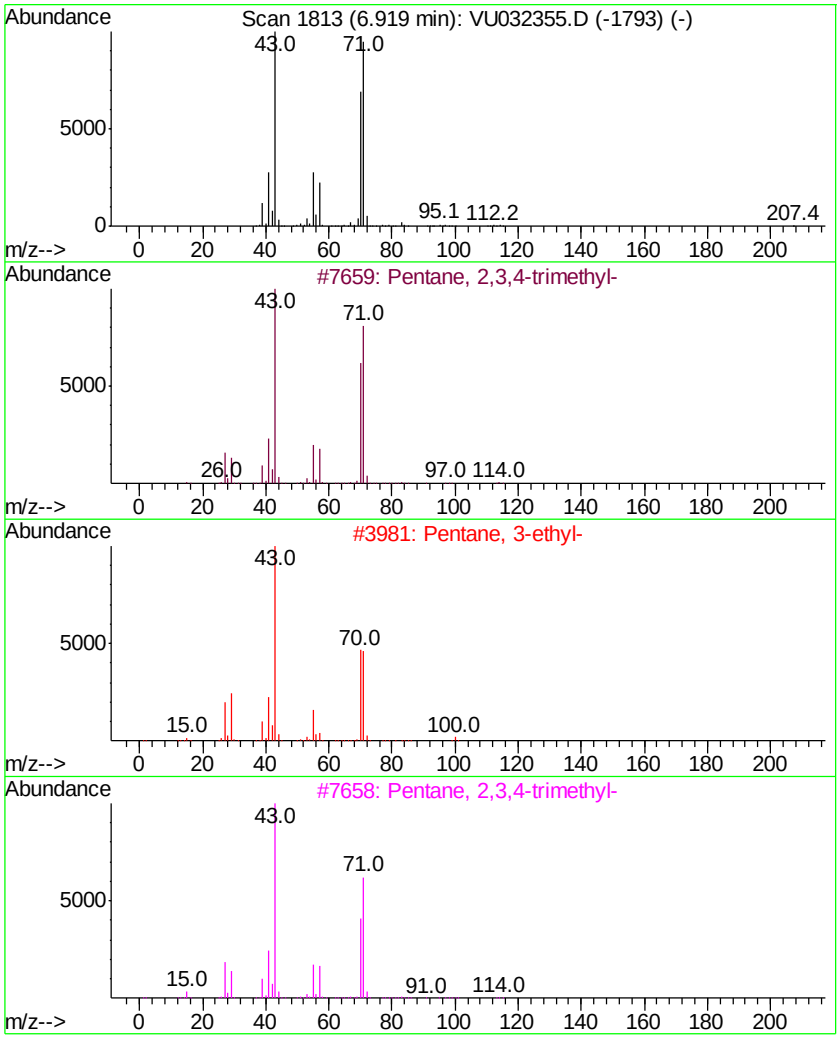
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

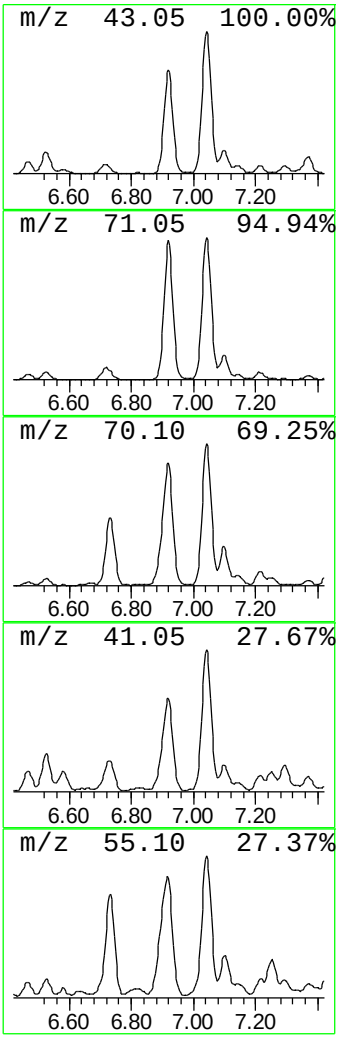
****

Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	17.82 ug/L	3274630	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	83
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Hexane, 3-methyl-	100	C7H16	000589-34-4	78
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	74





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

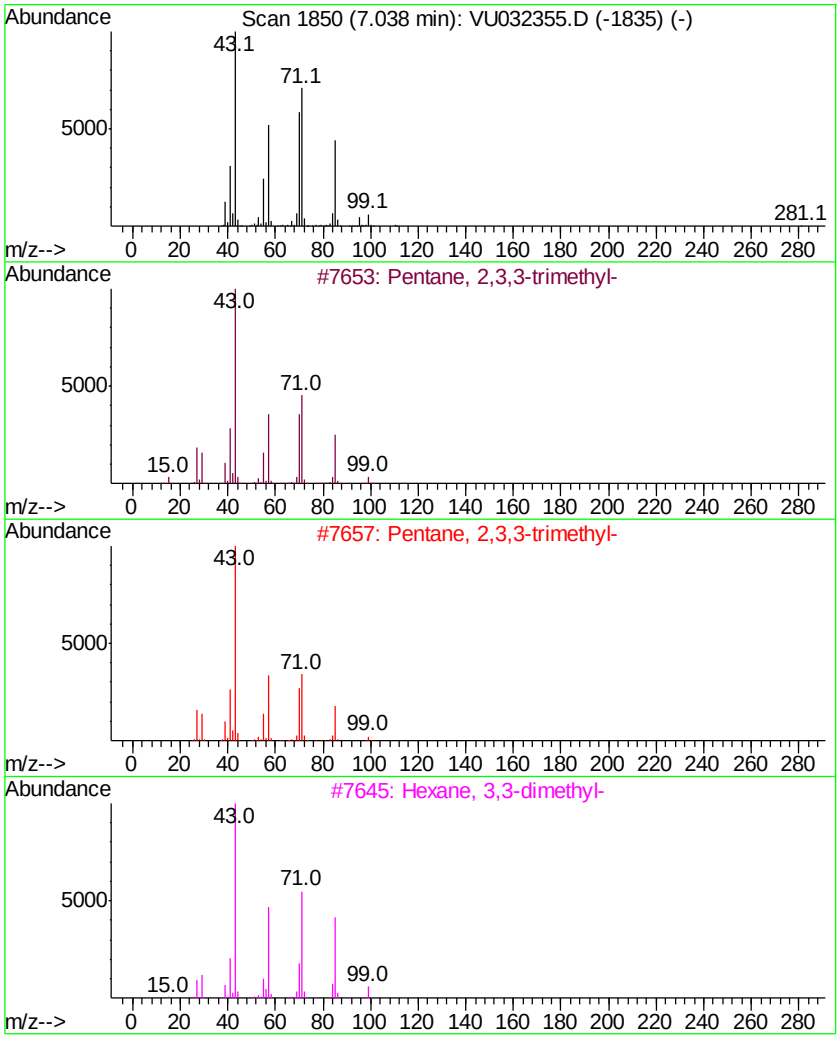
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

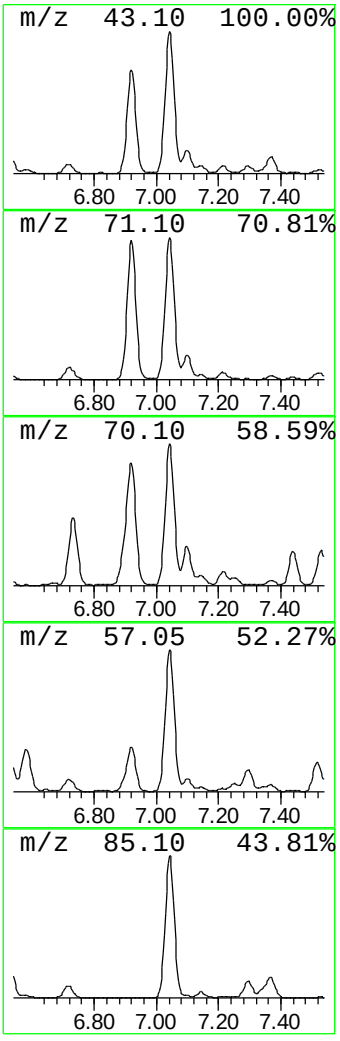
****

Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	25.24 ug/L	4636980	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	90
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	83
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
4	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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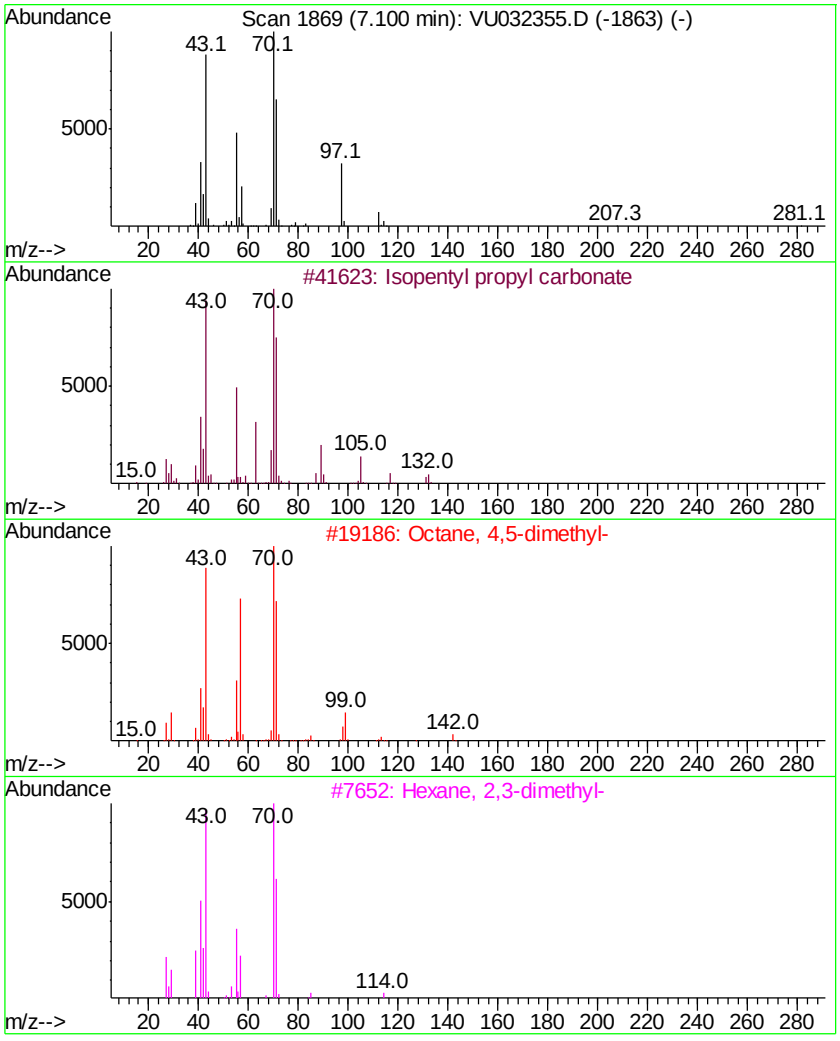
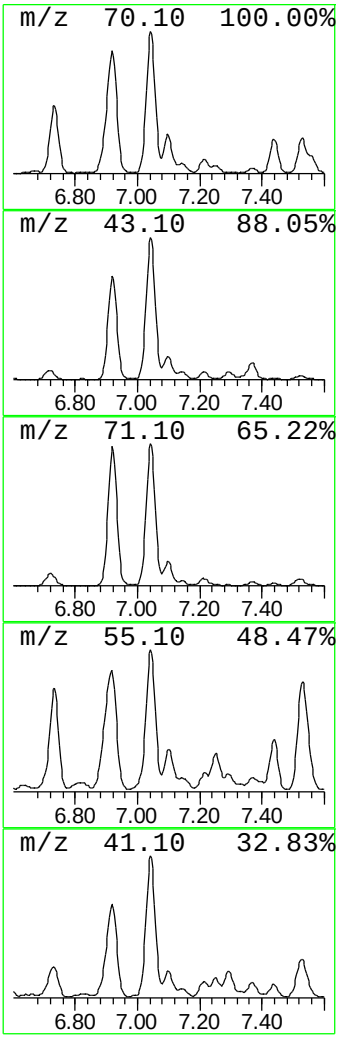
Peak Number 16 Isopentyl propyl carbonate Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.10	2.43 ug/L	447142	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopentyl propyl carbonate	174	C9H18O3	1000373-84-4	64
2	Octane, 4,5-dimethyl-	142	C10H22	015869-96-2	64
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	59
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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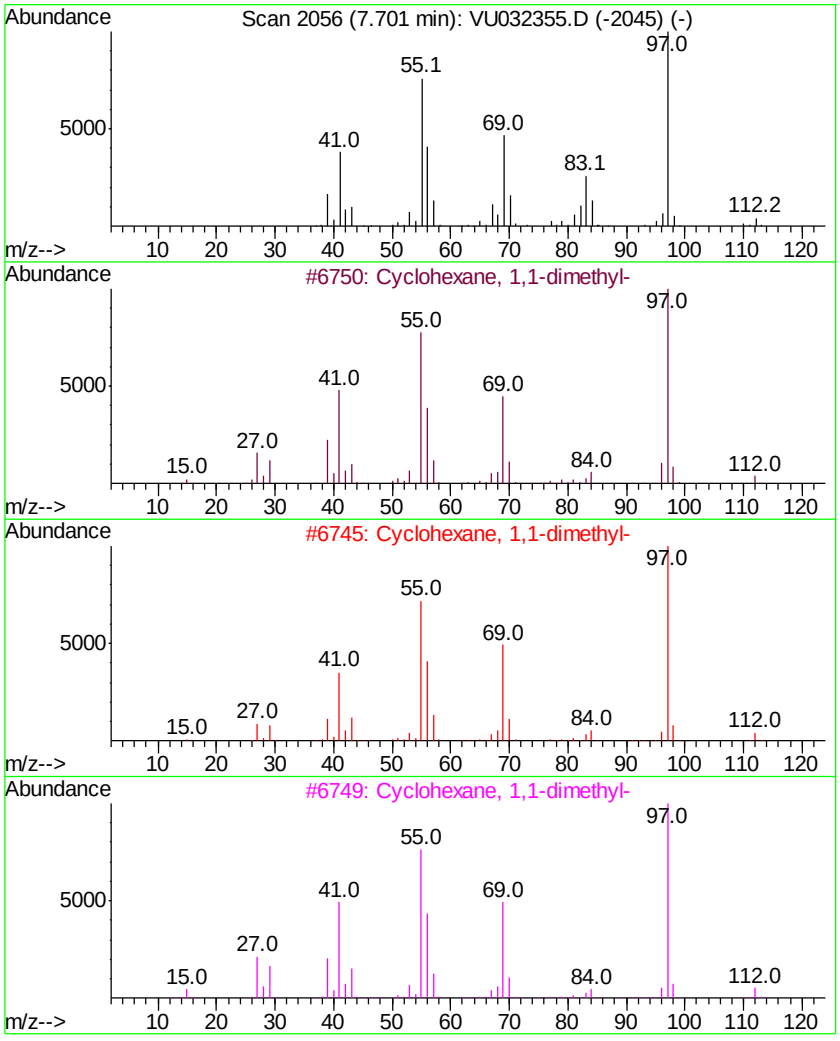
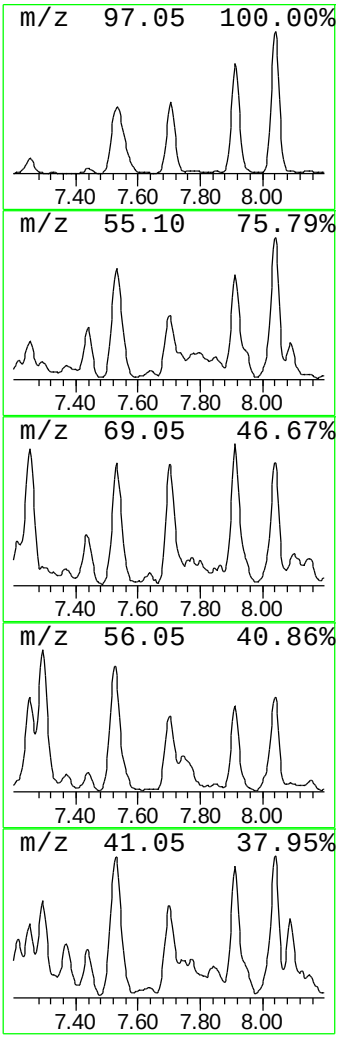
Peak Number 18 (DEL) Alkane: Cyclic7.70 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	3.18 ug/L	698763	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	76
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	74
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	72
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	50
5	Sulfurous acid, cyclohexylmethyl...	262	C13H26O3S	1000309-21-5	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

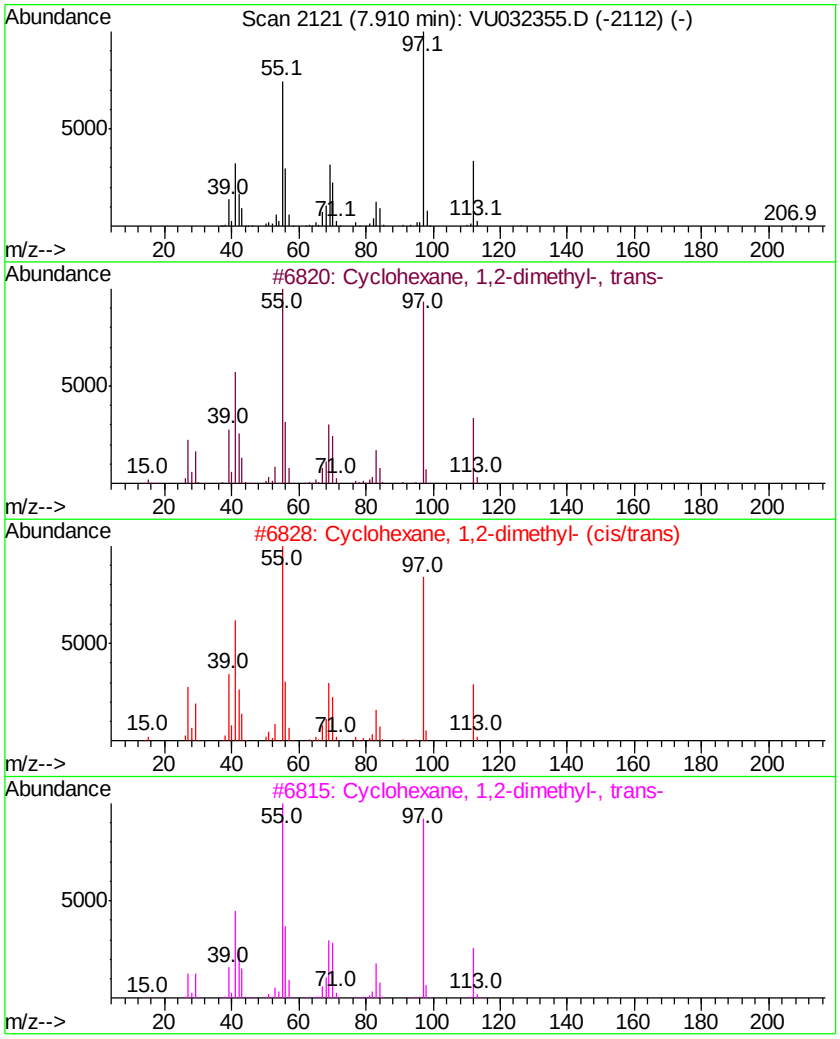
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

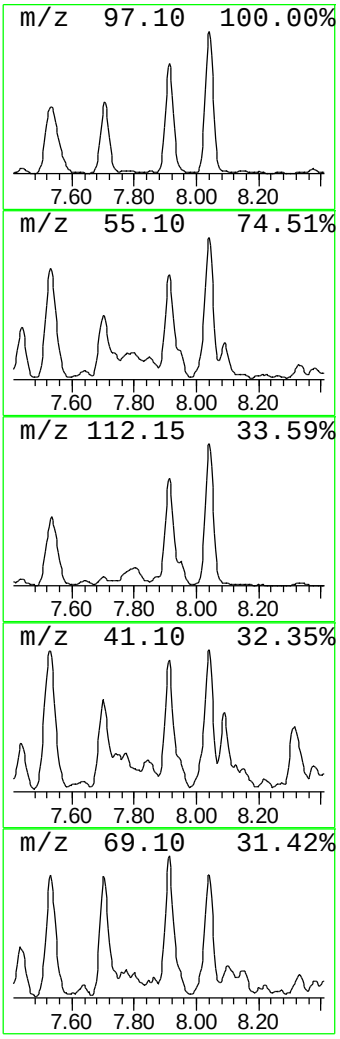
****

Peak Number 19 (DEL) Alkane: Cyclic7.91 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	5.12 ug/L	1126350	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	91
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90





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Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

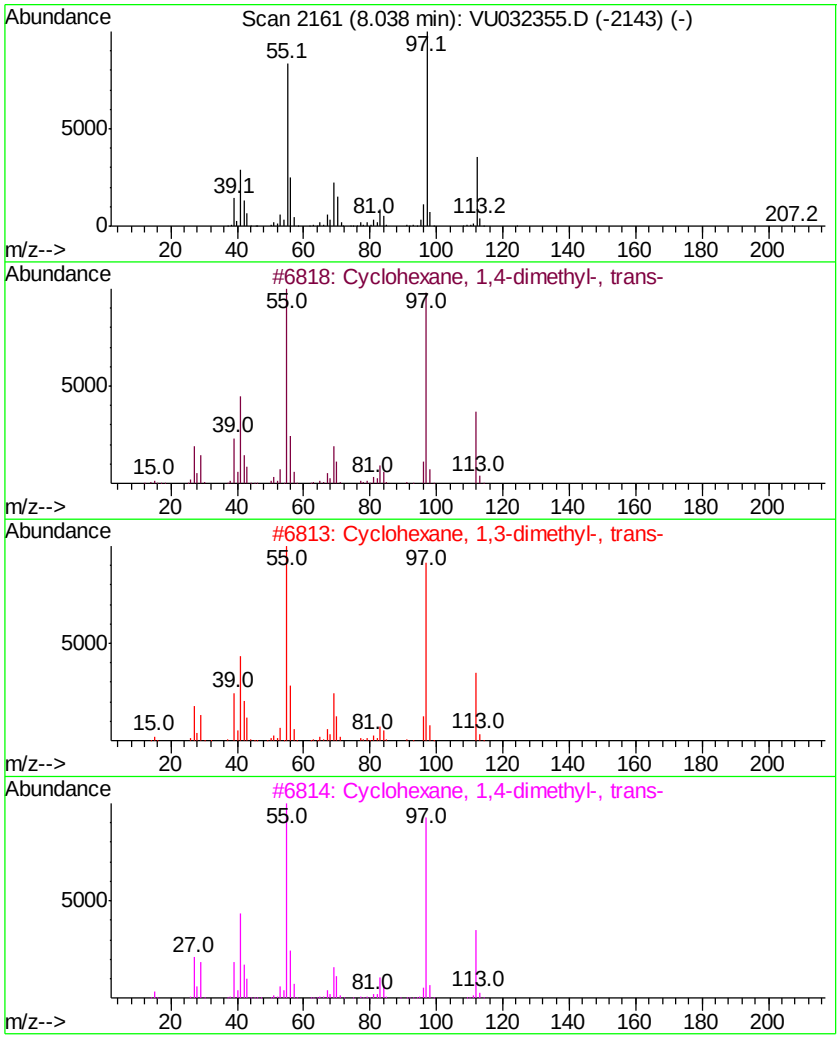
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

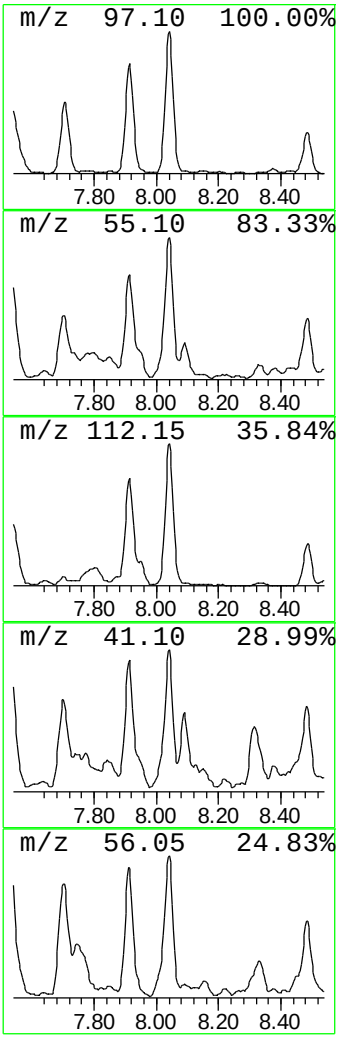
****

Peak Number 20 (DEL) Alkane: Cyclic8.04 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	5.61 ug/L	1234040	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	96
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
3	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94
4	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94





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Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

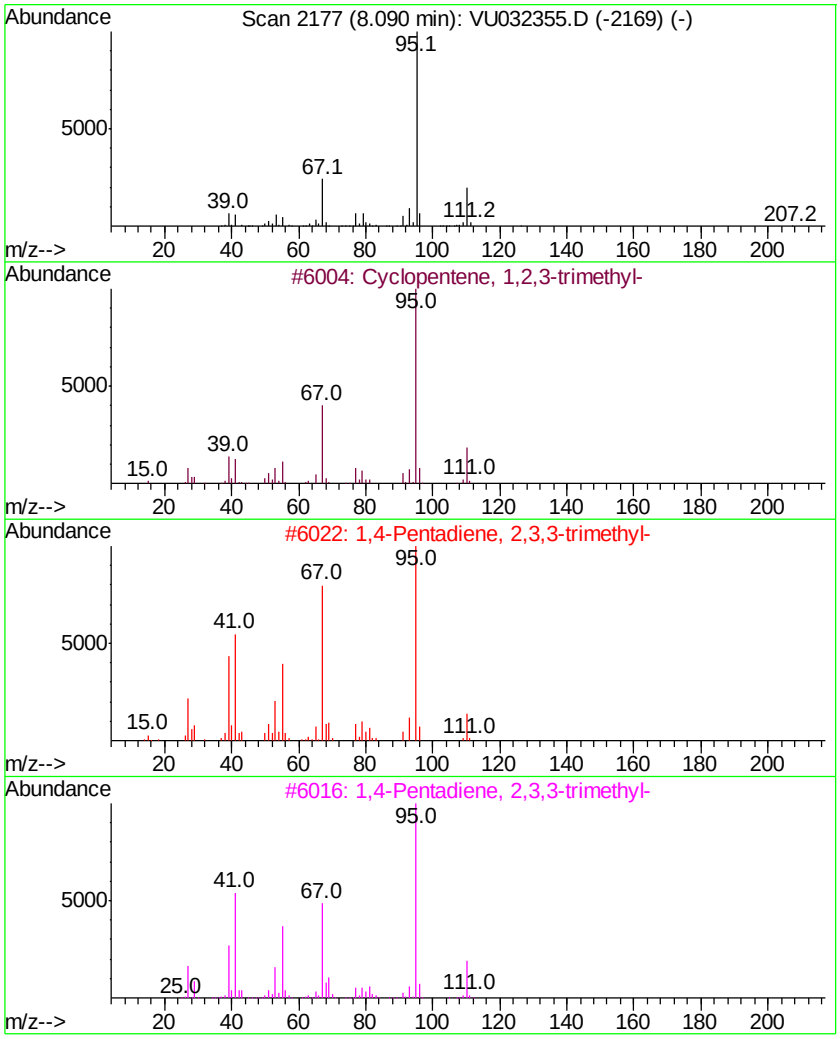
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

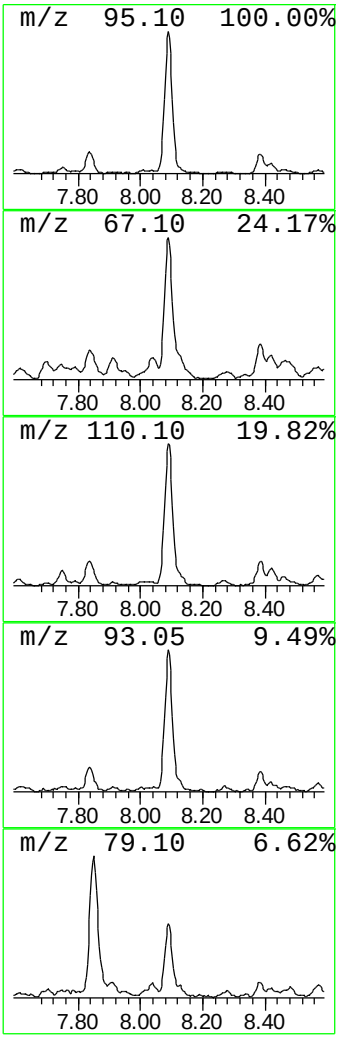
****

Peak Number 21 Cyclopentene, 1,2,3-trimethyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	6.46 ug/L	1420060	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	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	90
3	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	83
4	1,3-Dimethyl-1-cyclohexene	110	C8H14	002808-76-6	78
5	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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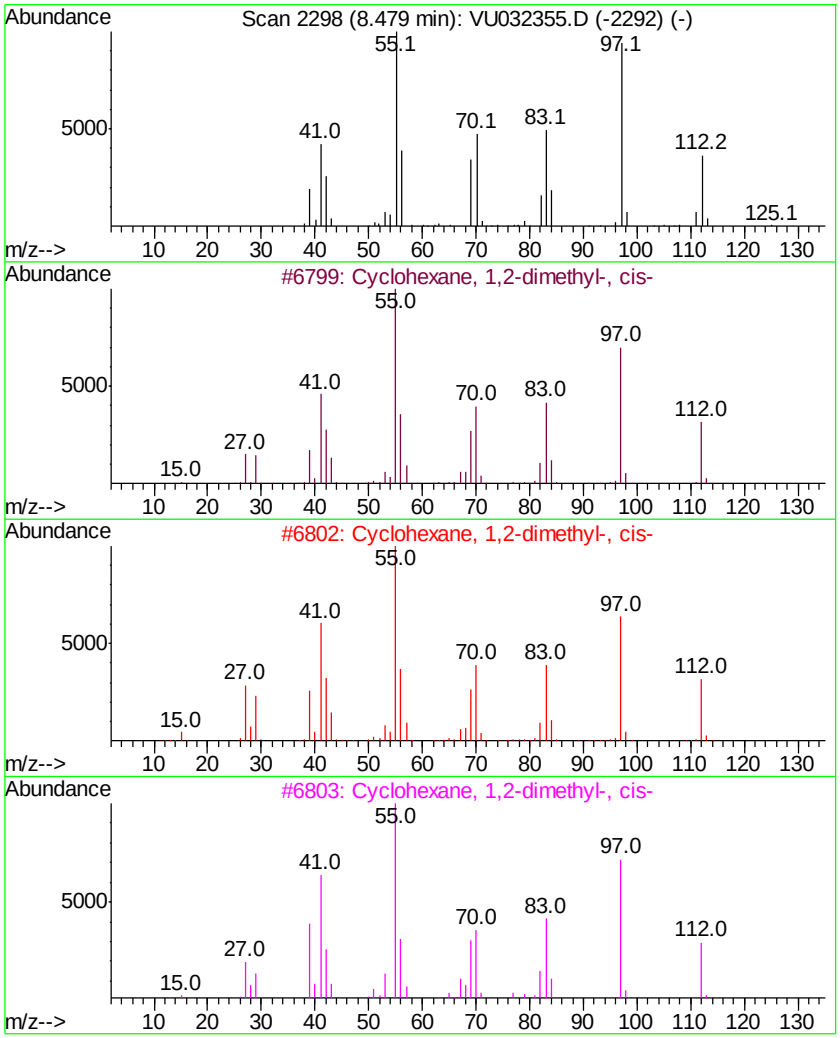
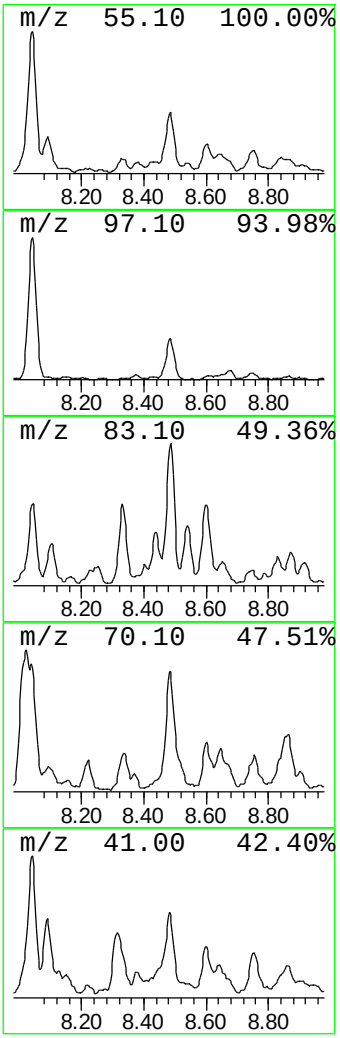
Peak Number 22 (DEL) Alkane: Cyclic8.48 Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	2.32 ug/L	510317	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	93
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	68





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

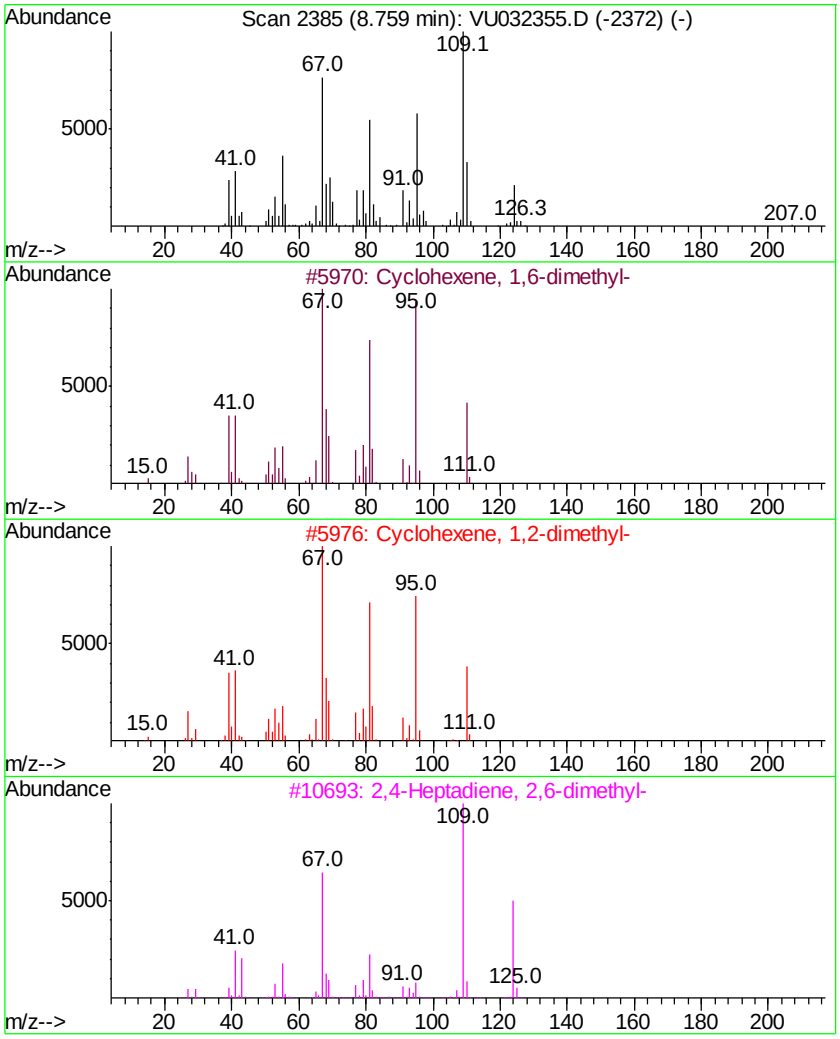
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

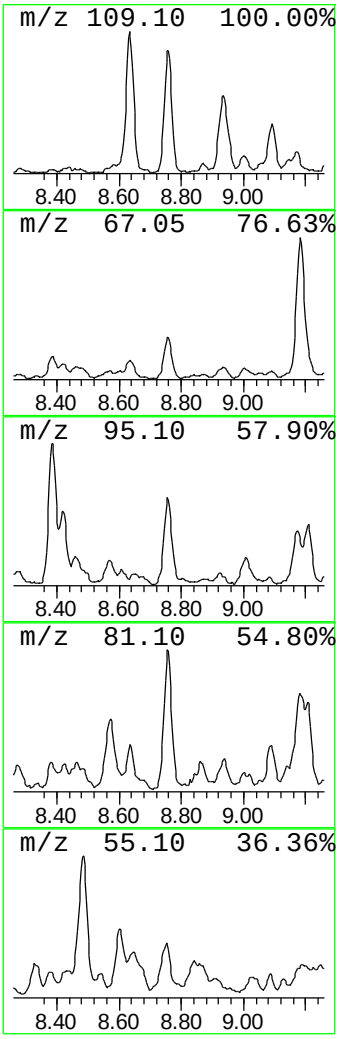
****

Peak Number 23 Cyclohexene, 1,6-dimethyl- Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	2.31 ug/L	507170	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,6-dimethyl-	110	C8H14	001759-64-4	90
2	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	90
3	2,4-Heptadiene, 2,6-dimethyl-	124	C9H16	004634-87-1	74
4	Cyclohexene, 3,3,5-trimethyl-	124	C9H16	000503-45-7	68
5	Cyclopropane, 1,1-dimethyl-2-(2-...	124	C9H16	033422-32-1	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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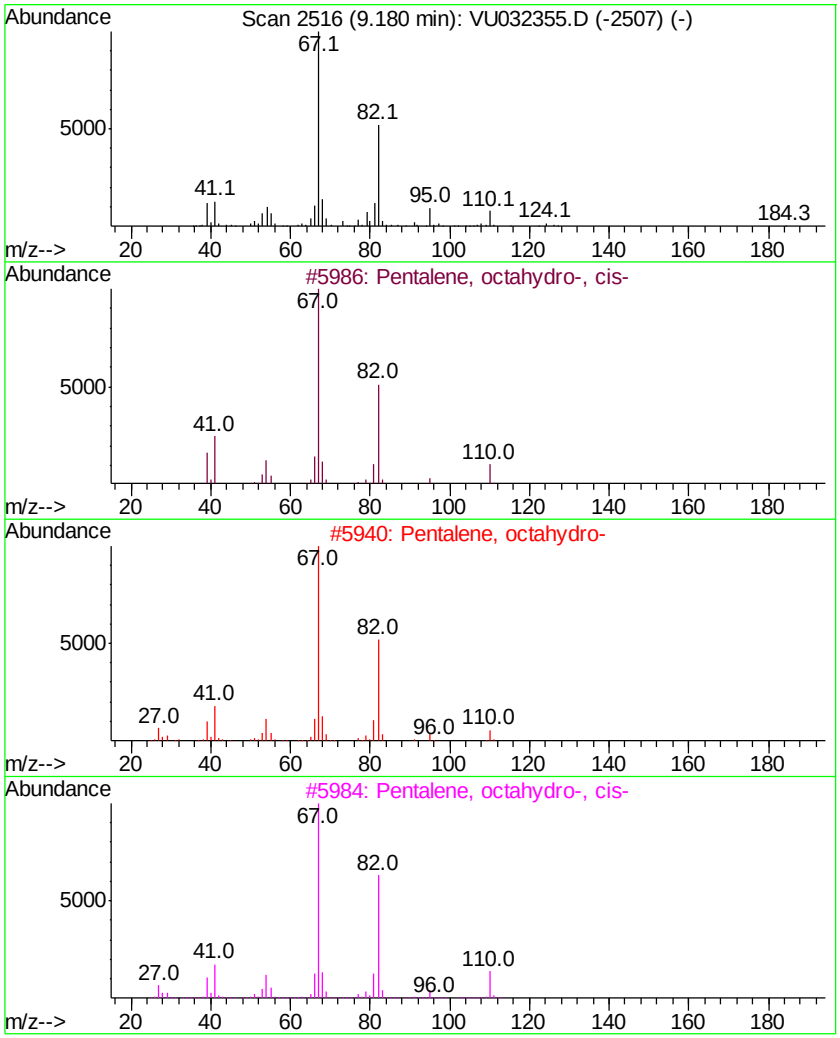
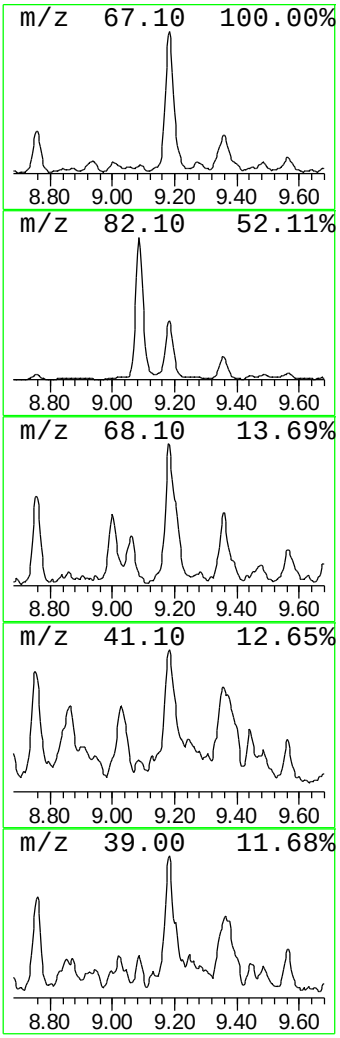
Peak Number 24 Pentalene, octahydro-, cis- Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	2.52 ug/L	554934	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	90
2	Pentalene, octahydro-	110	C8H14	000694-72-4	90
3	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	87
4	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	64
5	Ethyl (E)-hex-3-enyl carbonate	172	C9H16O3	1000373-83-8	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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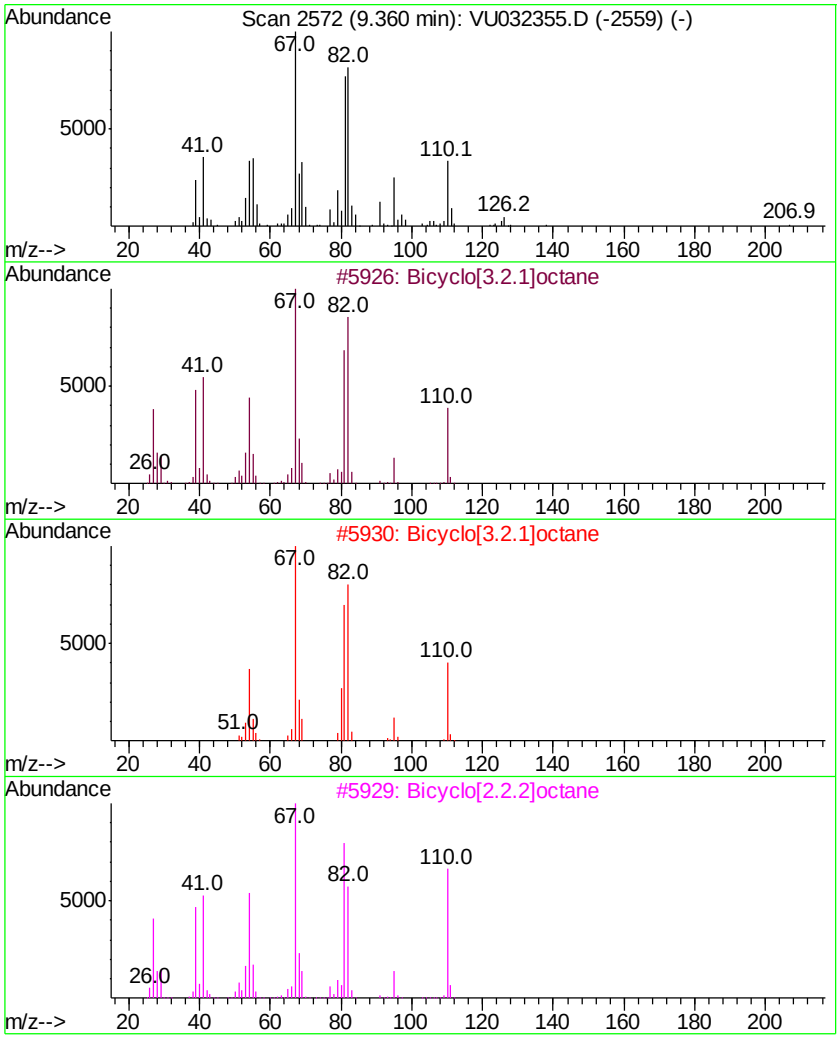
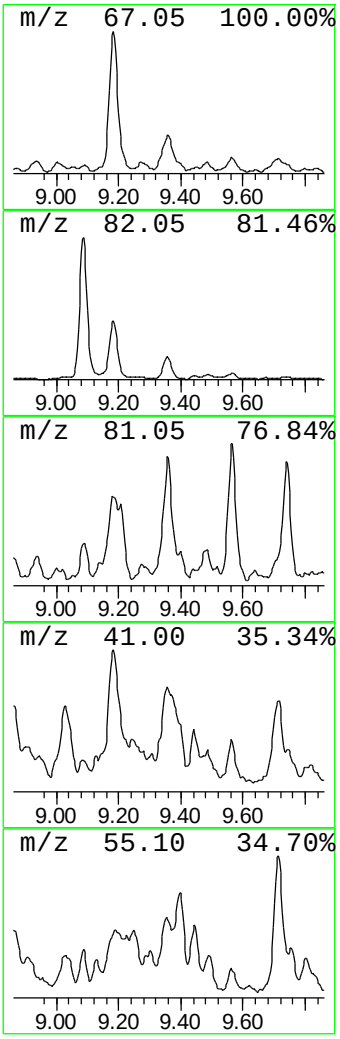
Peak Number 25 Bicyclo[3.2.1]octane Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	2.87 ug/L	632472	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	90
2	Bicyclo[3.2.1]octane	110	C8H14	006221-55-2	86
3	Bicyclo[2.2.2]octane	110	C8H14	000280-33-1	72
4	Cyclooctene, (Z)-	110	C8H14	000931-87-3	62
5	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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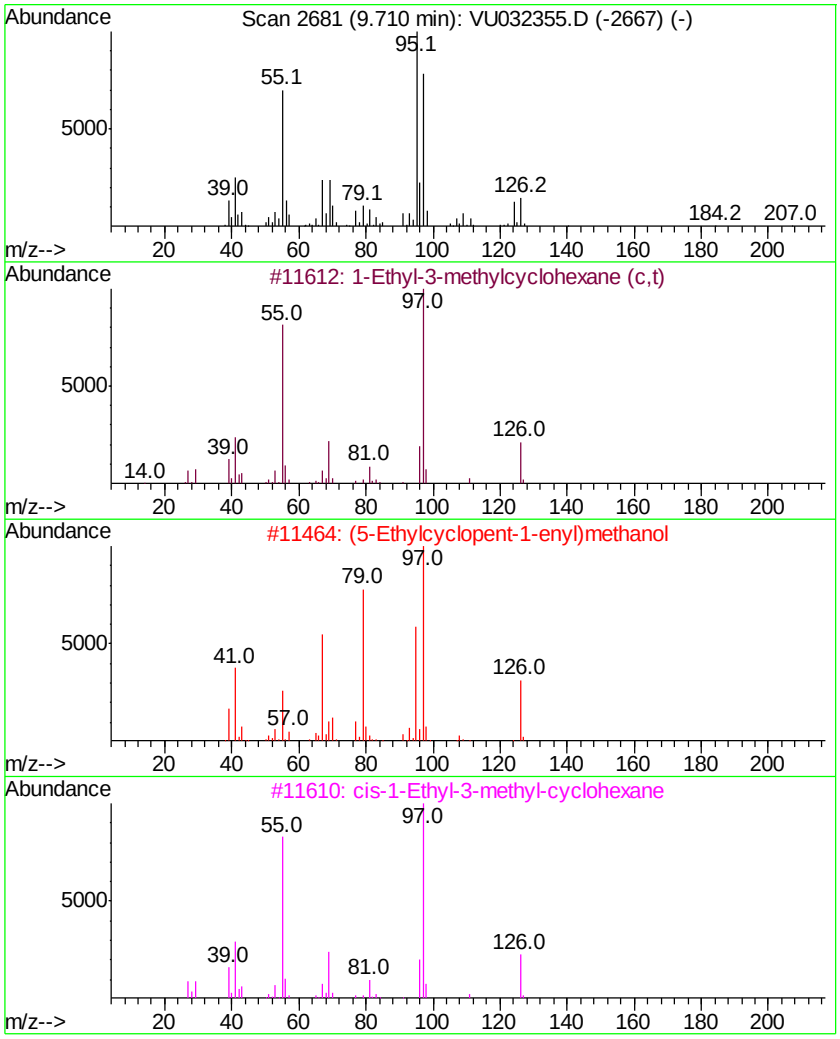
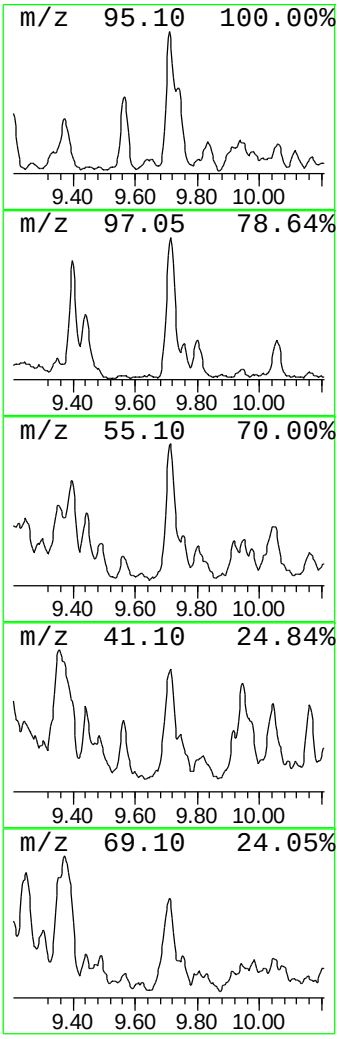
Peak Number 26 (DEL) Alkane: Cyclic9.71 Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.71	2.46 ug/L	540669	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	50
2	(5-Ethylcyclopent-1-enyl)methanol	126	C8H14O	036431-59-1	50
3	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	50
4	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	50
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	45





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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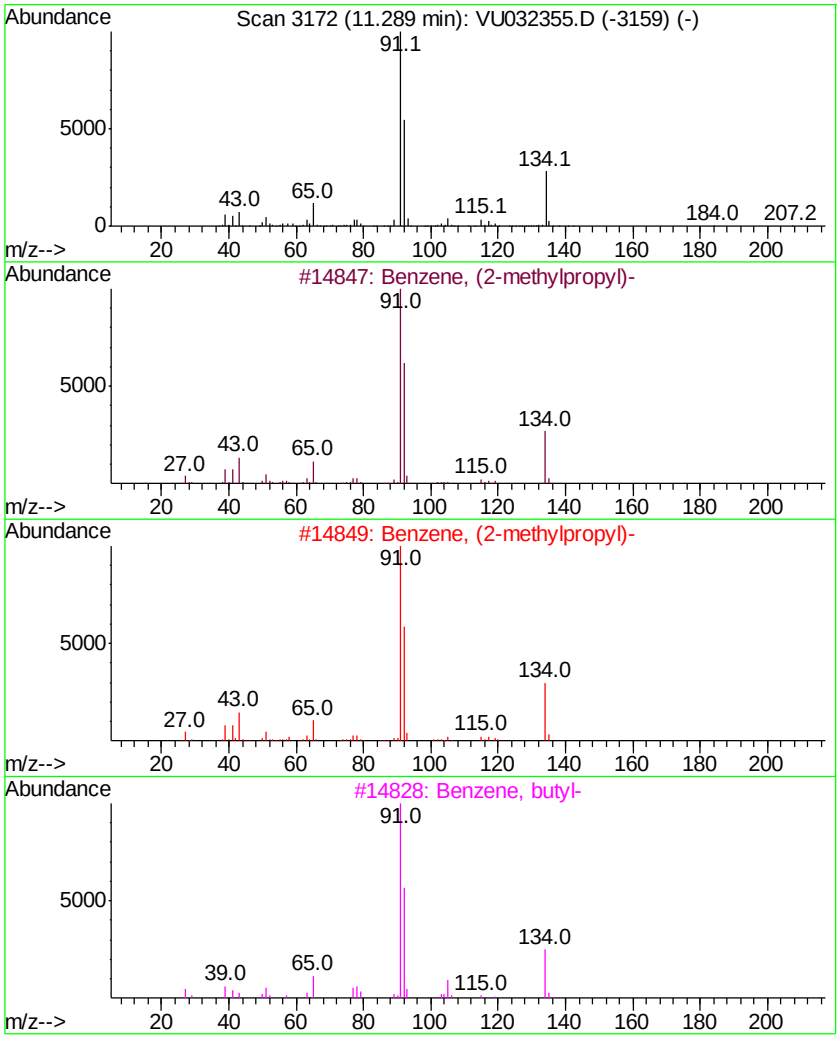
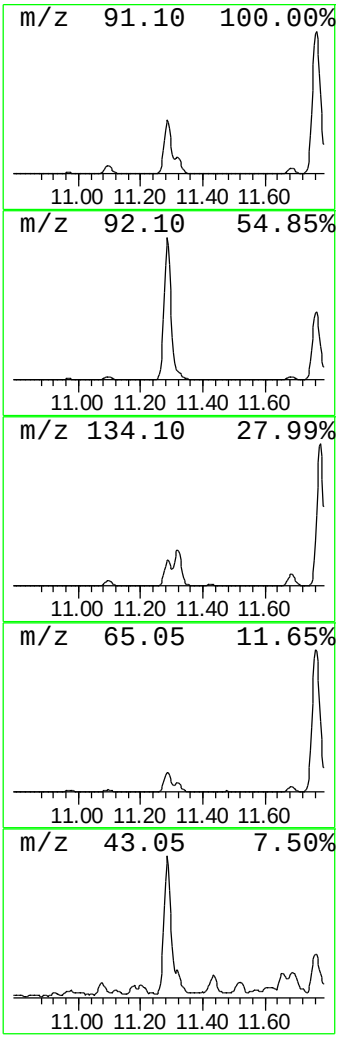
Peak Number 29 Benzene, (2-methylpropyl)- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	7.08 ug/L	1814550	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	90
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	90
3	Benzene, butyl-	134	C10H14	000104-51-8	86
4	Benzene, butyl-	134	C10H14	000104-51-8	80
5	Benzene, butyl-	134	C10H14	000104-51-8	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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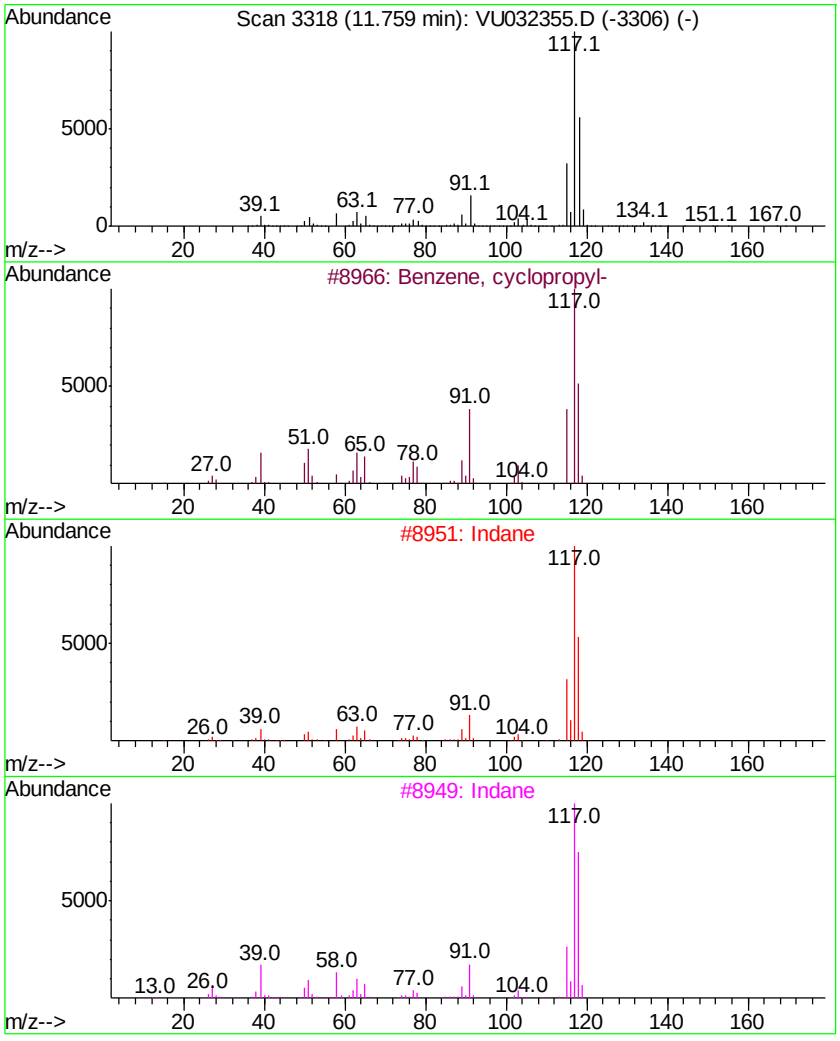
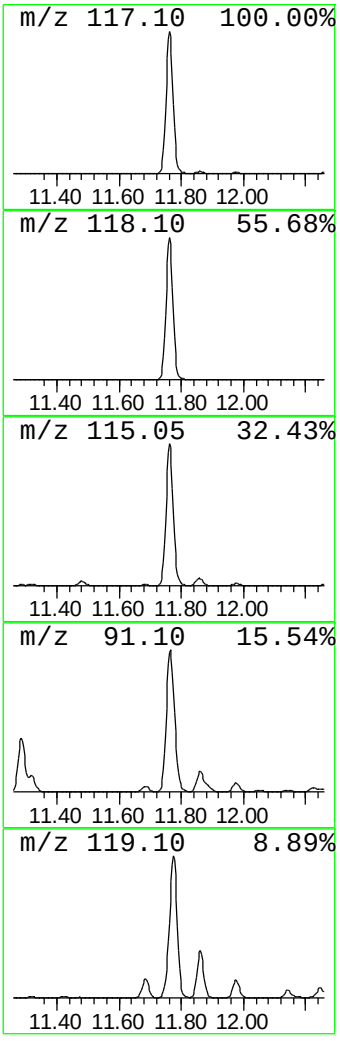
Peak Number 32 Benzene, cyclopropyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	164.07 ug/L	42069700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, cyclopropyl-	118	C9H10	000873-49-4	76
2	Indane	118	C9H10	000496-11-7	76
3	Indane	118	C9H10	000496-11-7	76
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	68
5	Indane	118	C9H10	000496-11-7	68





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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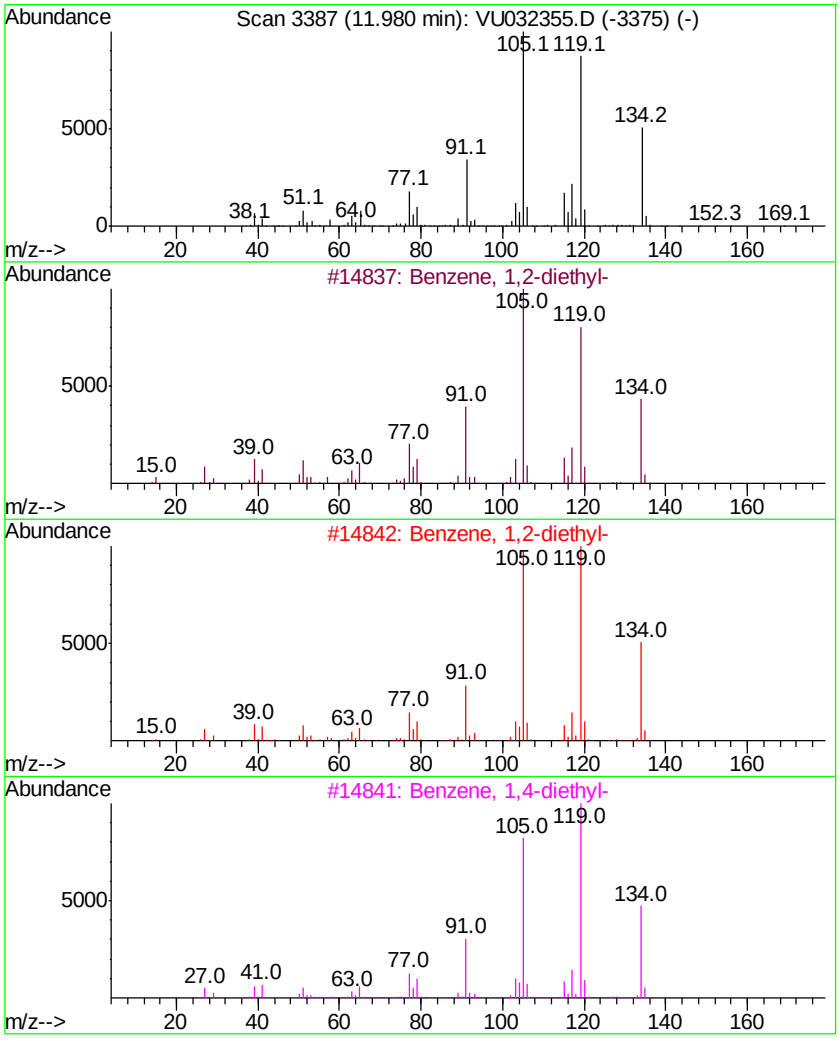
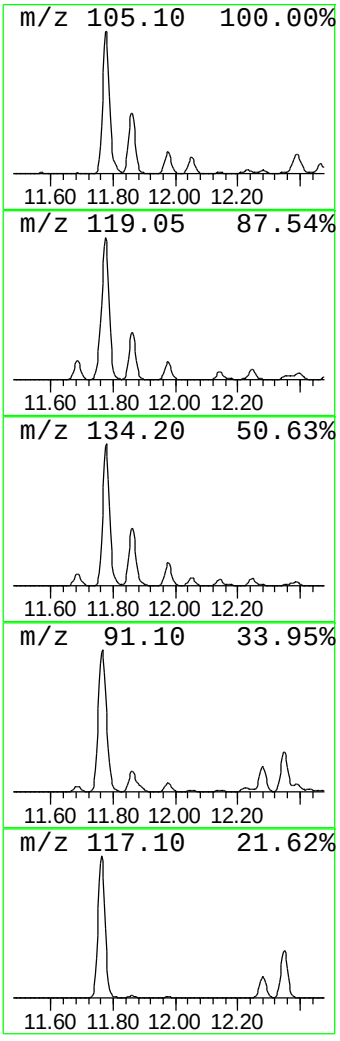
Peak Number 33 Benzene, 1,2-diethyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	6.36 ug/L	1630160	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	94
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	90
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

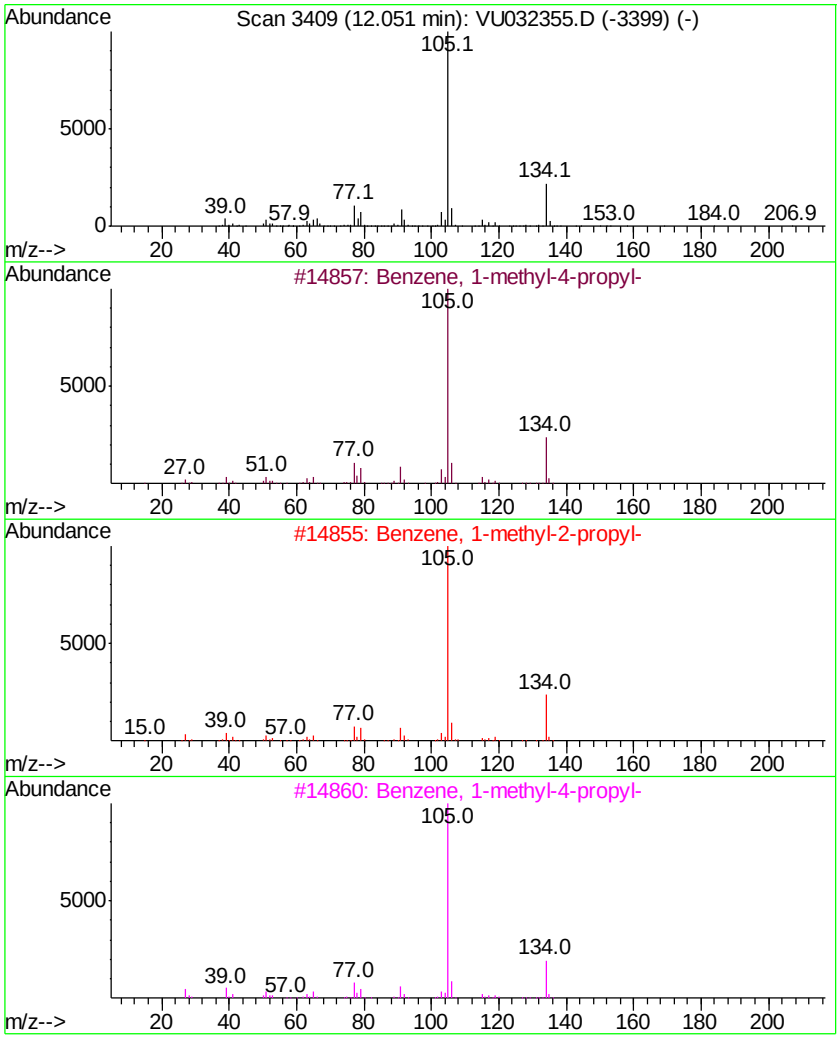
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

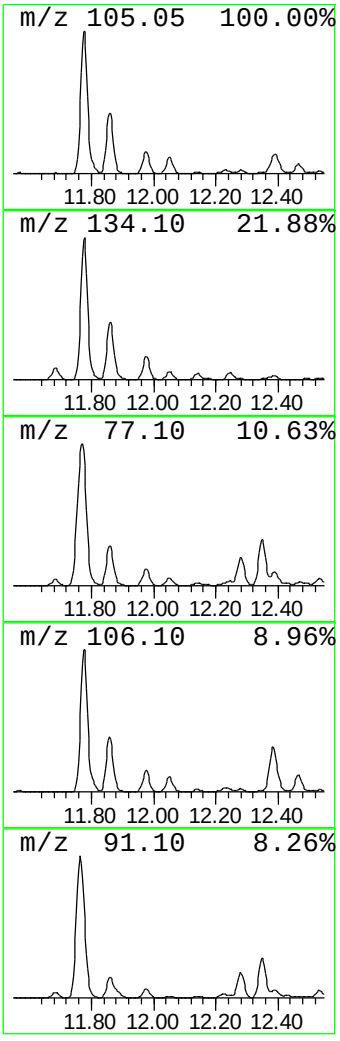
****

Peak Number 34 Benzene, 1-methyl-4-propyl- Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	2.37 ug/L	608267	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	93
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	93
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

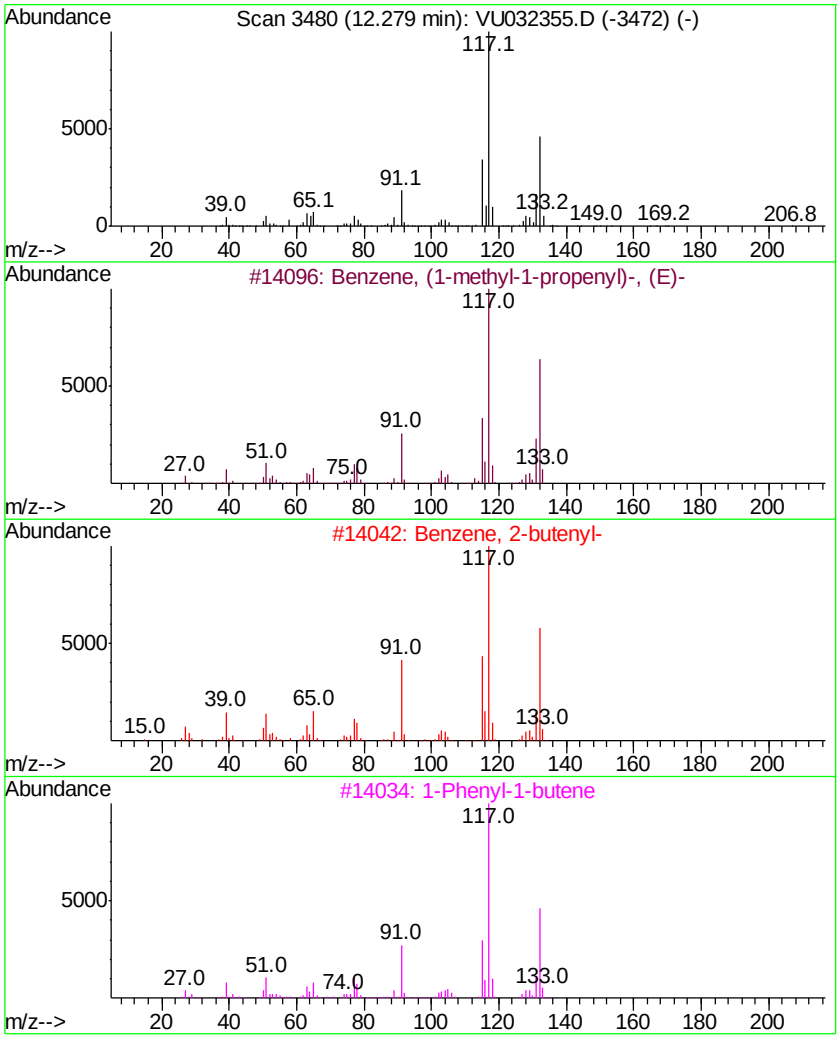
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

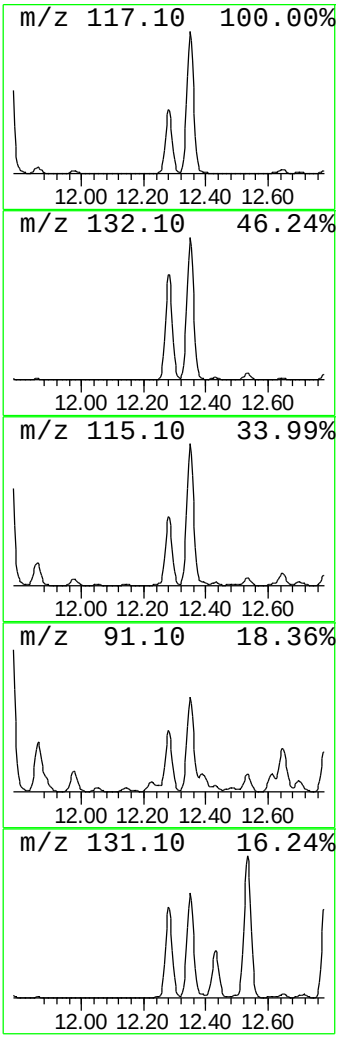
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 36 Benzene, (1-methyl-1-propen... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	22.65 ug/L	5806790	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	91
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	91
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

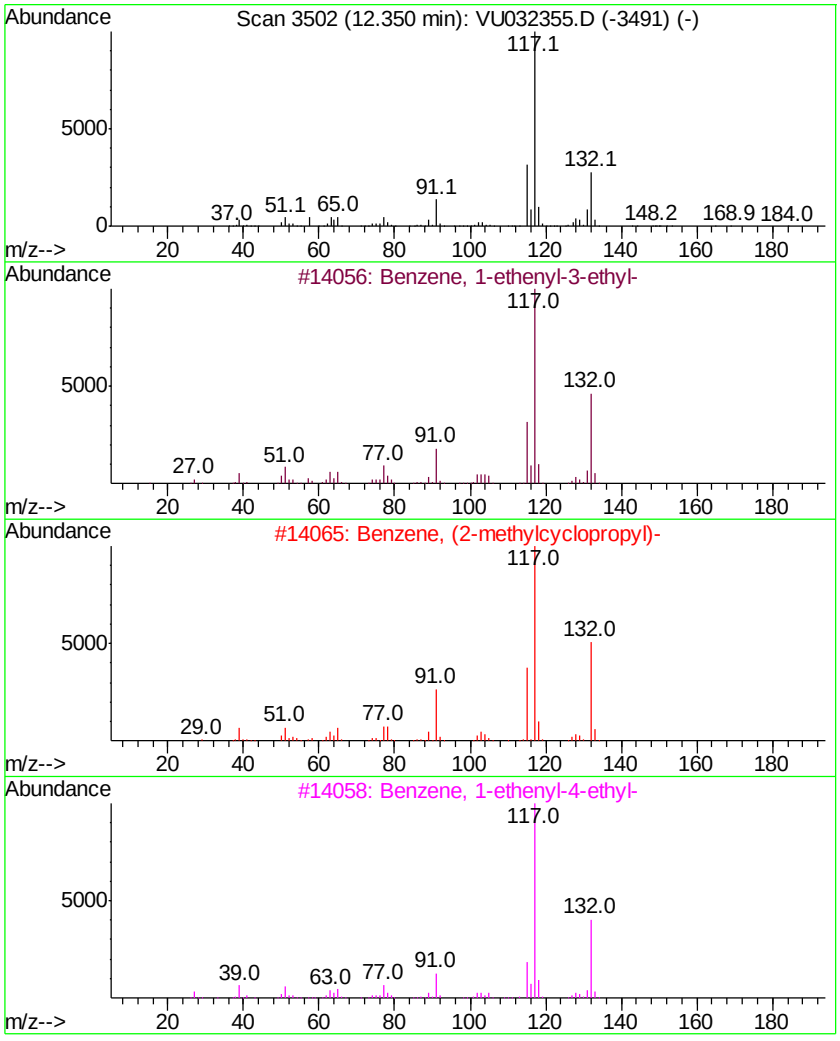
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

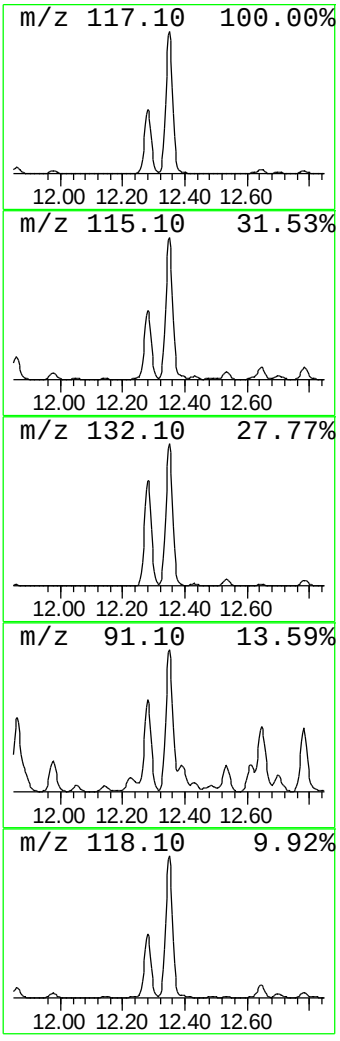
****

Peak Number 37 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	40.71 ug/L	10439900	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	91
2	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	90
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90
4	Indan, 1-methyl-	132	C10H12	000767-58-8	90
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

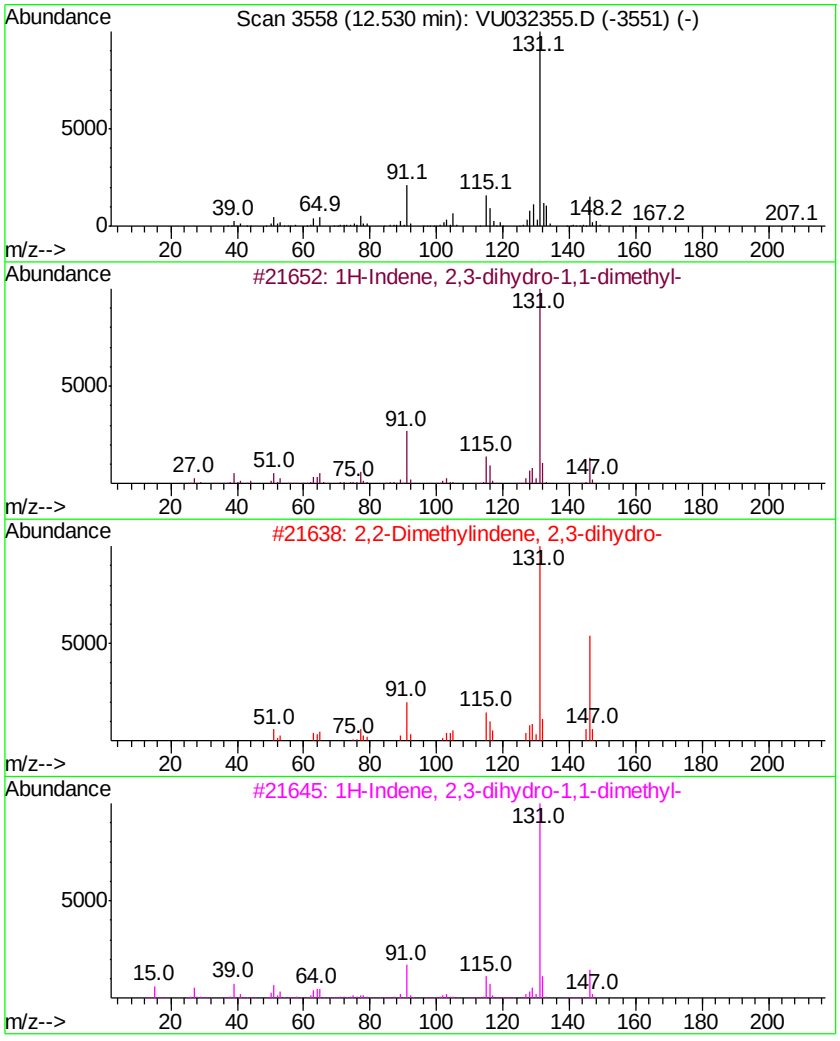
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

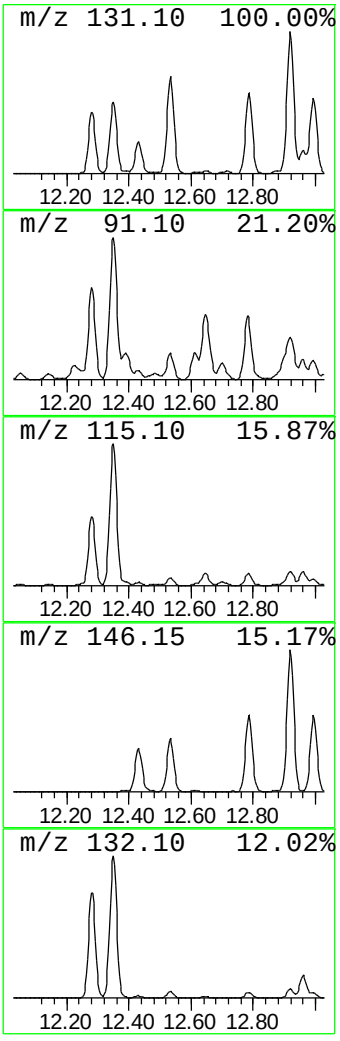
****

Peak Number 38 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	5.43 ug/L	1391300	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	94
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	90
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
5	Cyclopropane, 2-bromo-1-methyl-1...	210	C10H11Br	055091-64-0	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

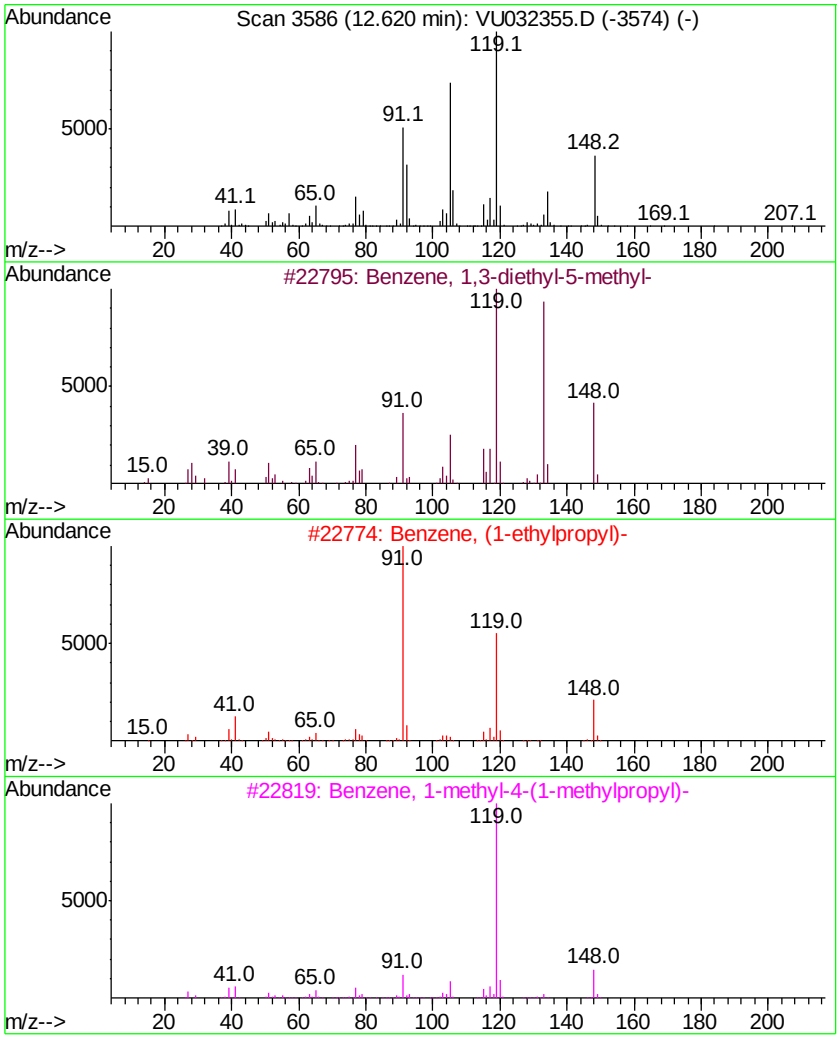
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

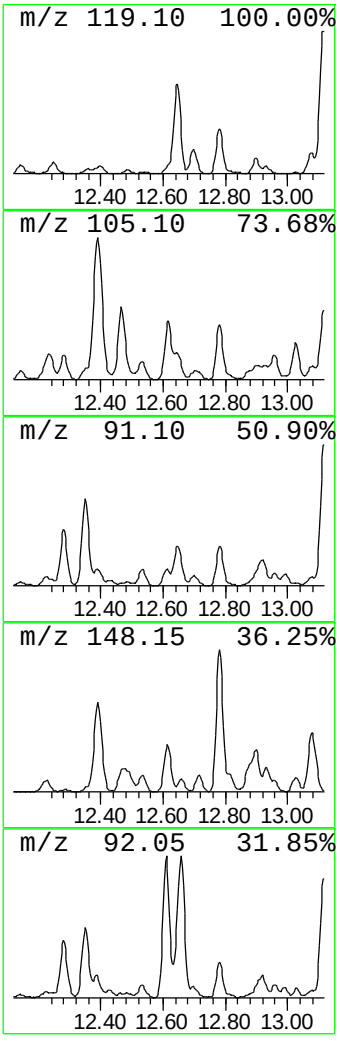
****

Peak Number 39 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	2.43 ug/L	622579	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	76
2	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	64
3	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	64
4	1,4-Cyclohexadiene, 3-ethenyl-1,...	134	C10H14	062338-57-2	60
5	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

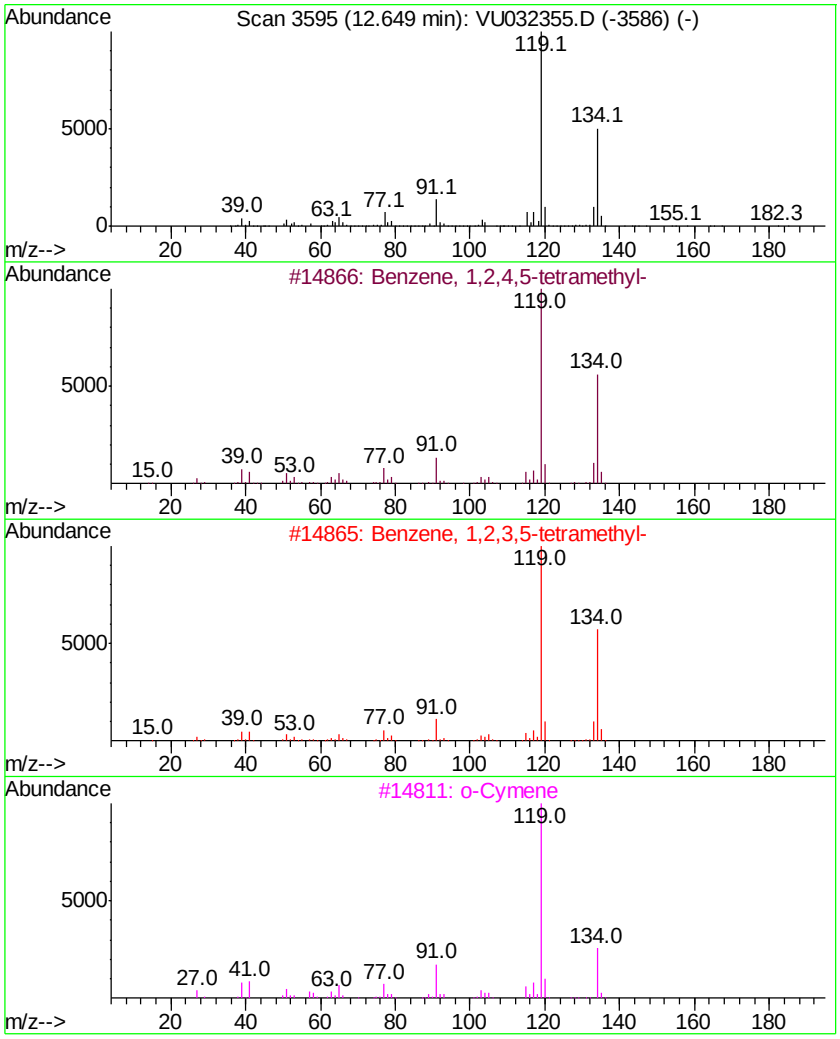
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

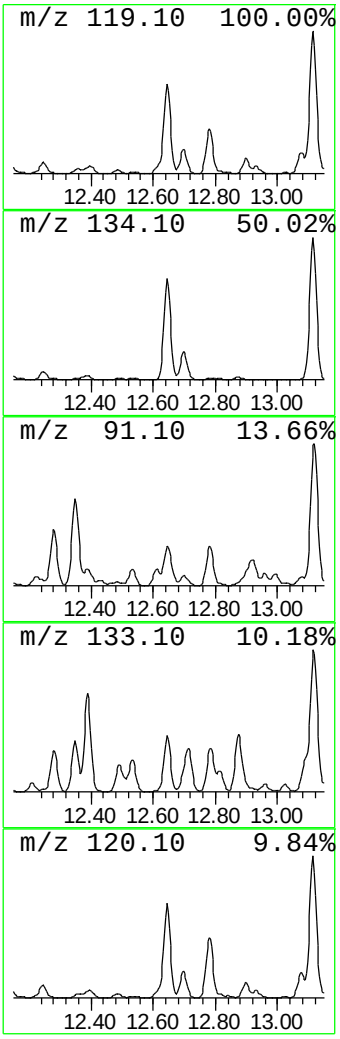
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 40 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	15.67 ug/L	4018920	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, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	o-Cymene	134	C10H14	000527-84-4	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

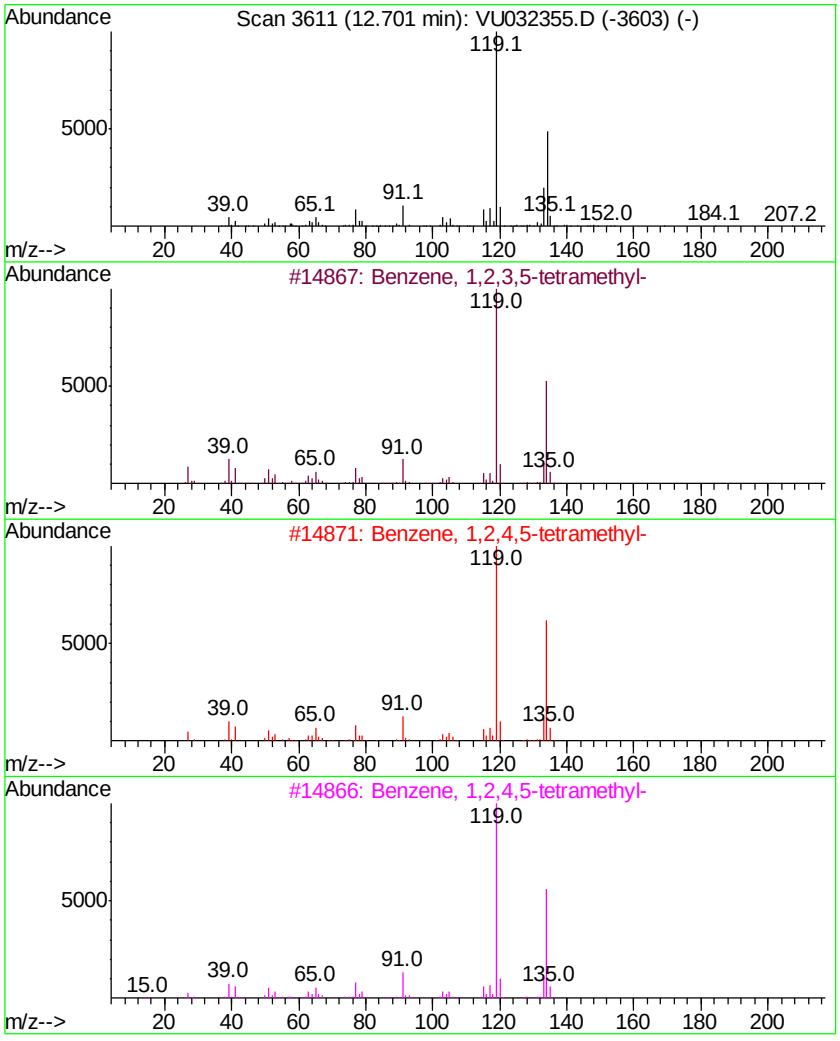
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

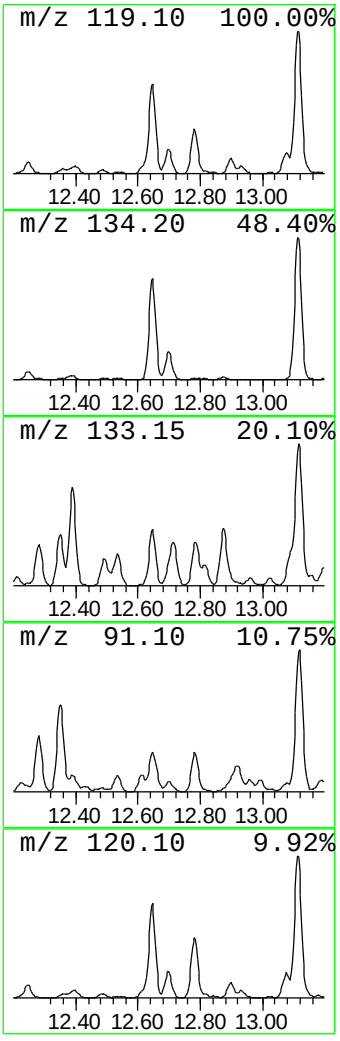
****

Peak Number 41 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	5.15 ug/L	1319690	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

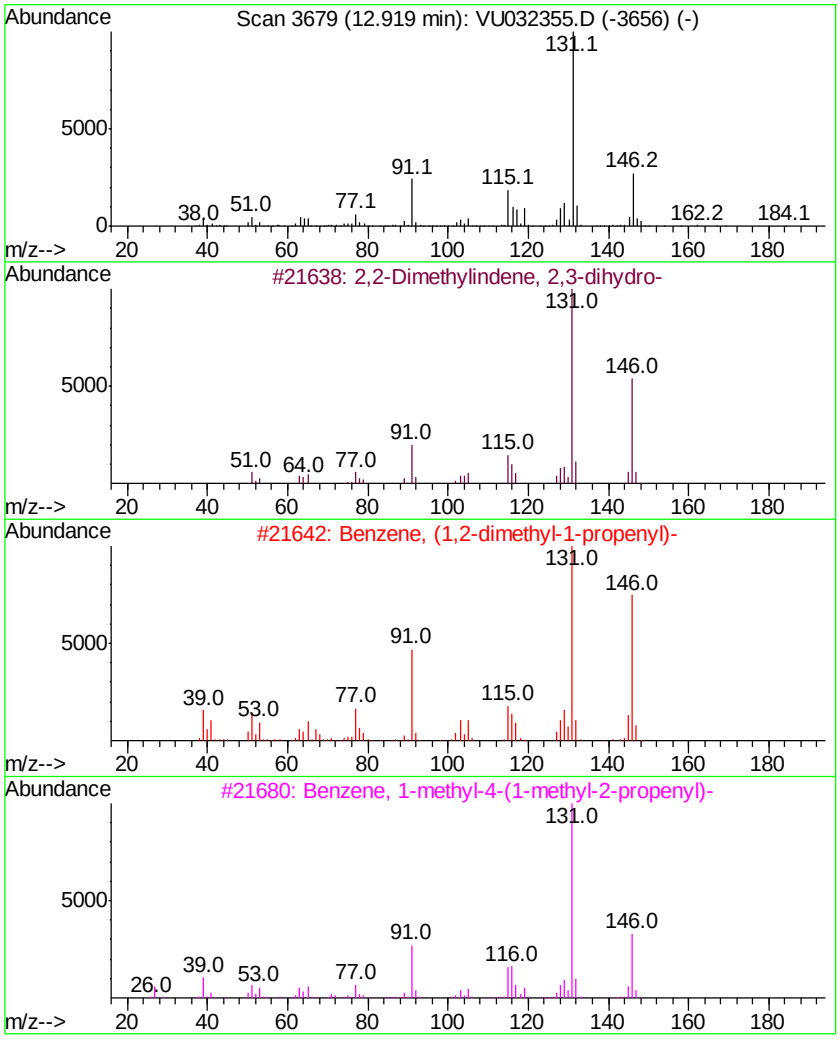
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

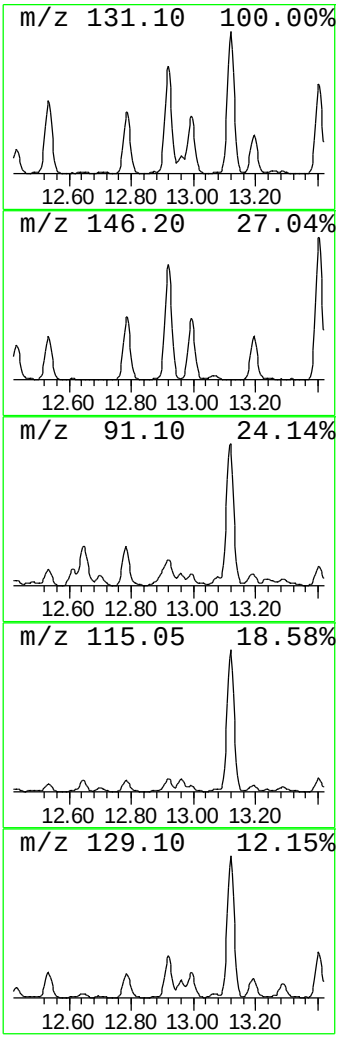
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 2,2-Dimethylindene, 2,3-dih... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	11.88 ug/L	3046790	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	93
2	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	93
3	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	93
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	91
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

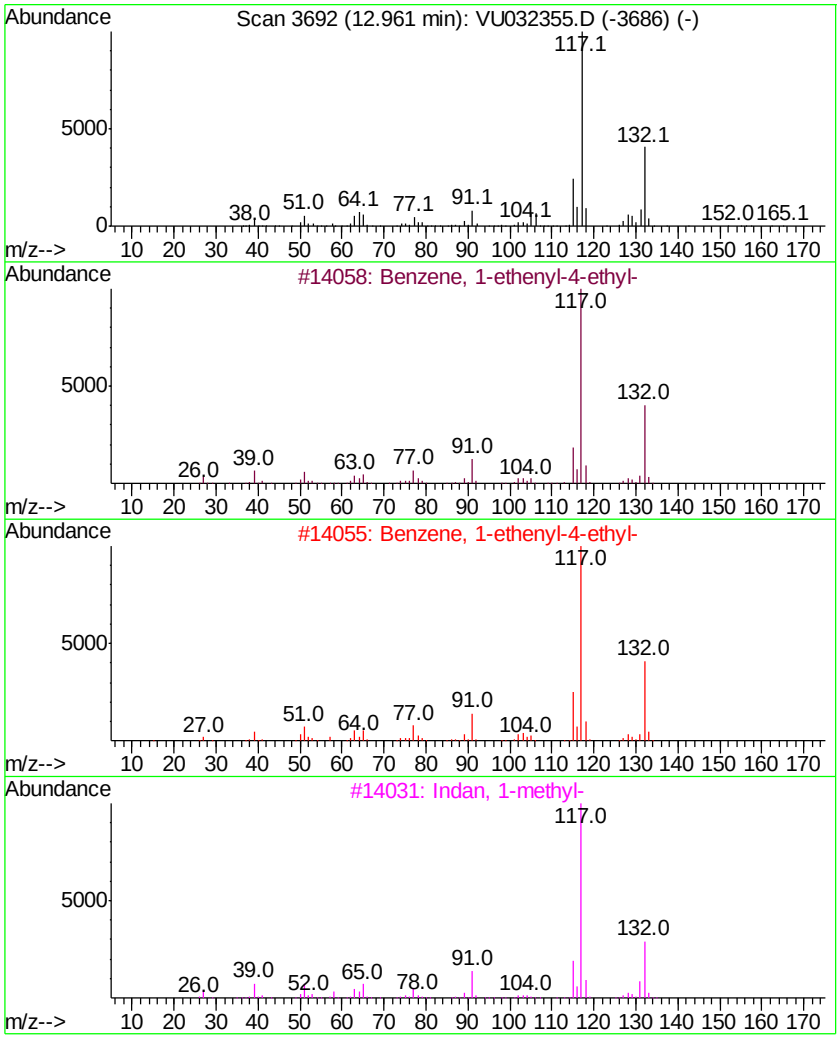
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

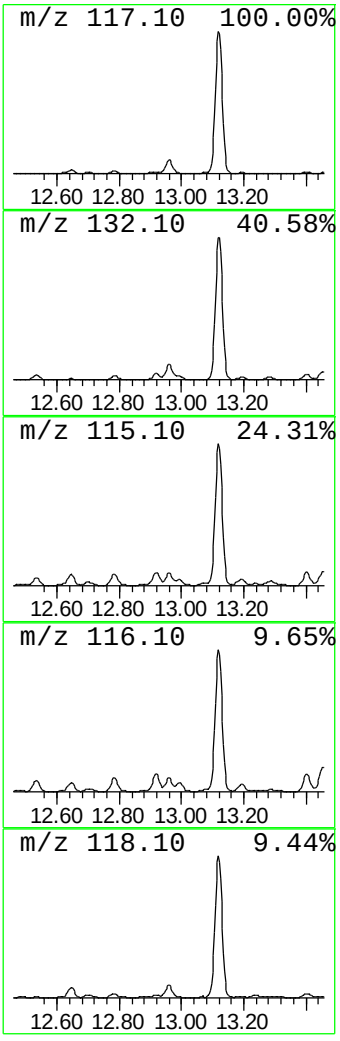
****

Peak Number 44 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	4.90 ug/L	1255230	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	90
3	Indan, 1-methyl-	132	C10H12	000767-58-8	90
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	90
5	1-Phenyl-1-butene	132	C10H12	000824-90-8	90





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

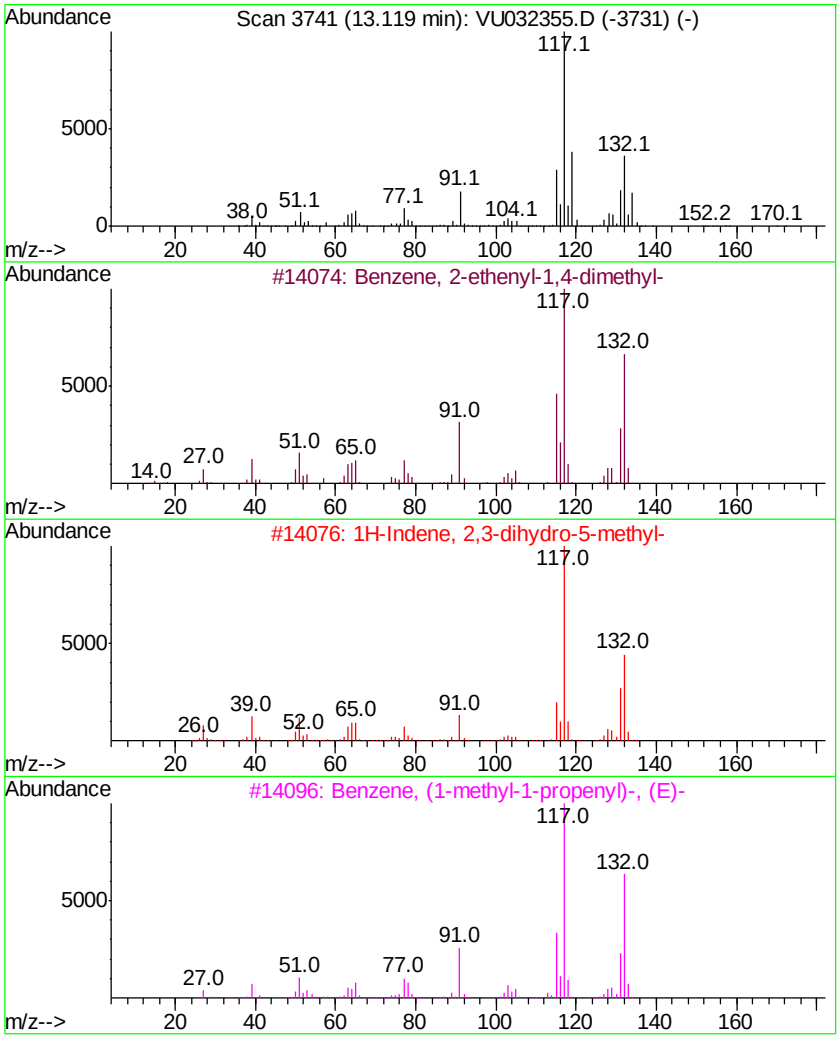
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

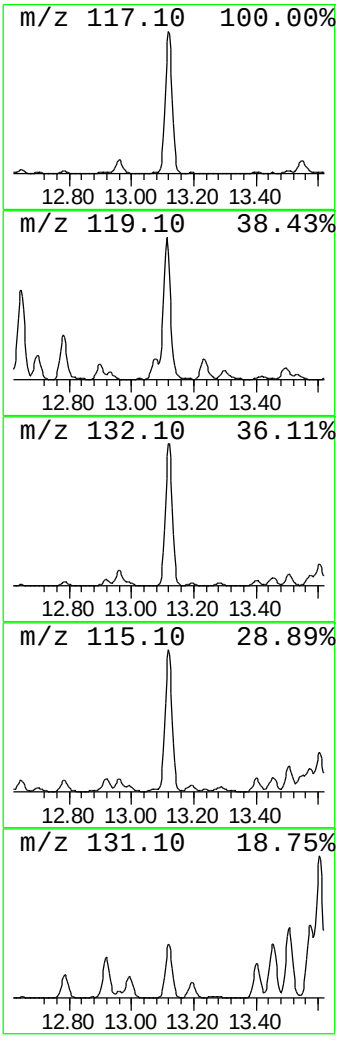
****

Peak Number 47 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	74.04 ug/L	18985300	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	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	86
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	76
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	76
5	Indan, 1-methyl-	132	C10H12	000767-58-8	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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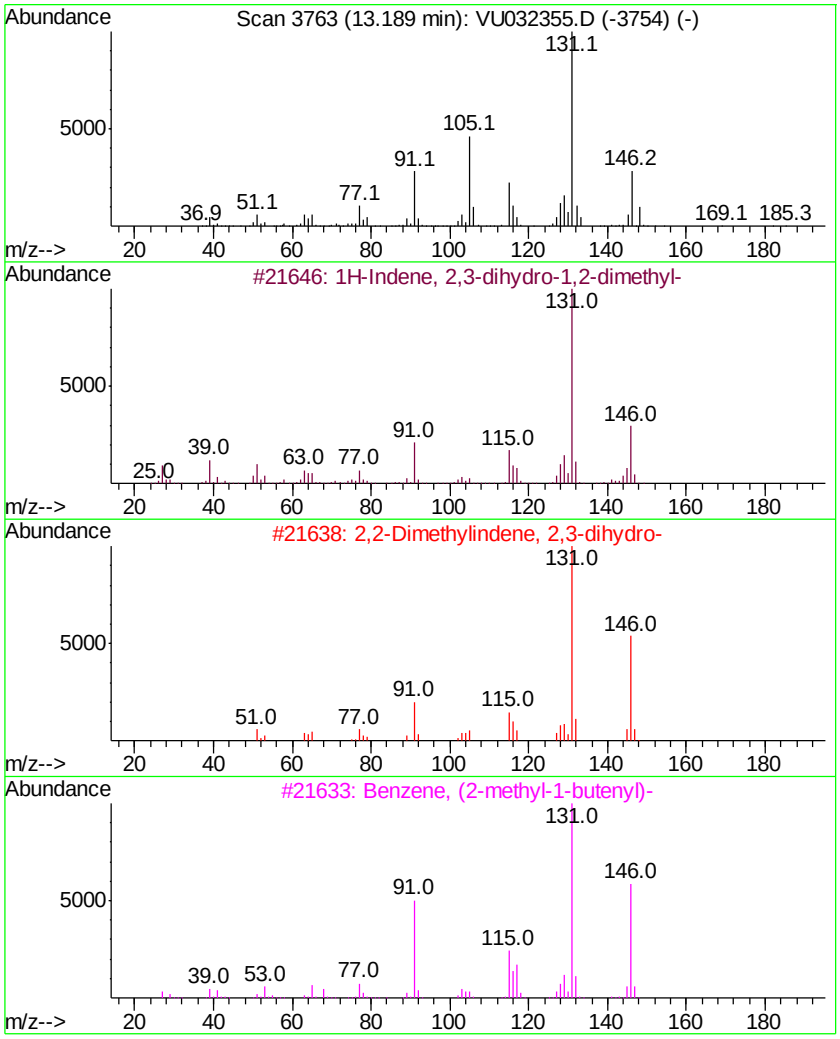
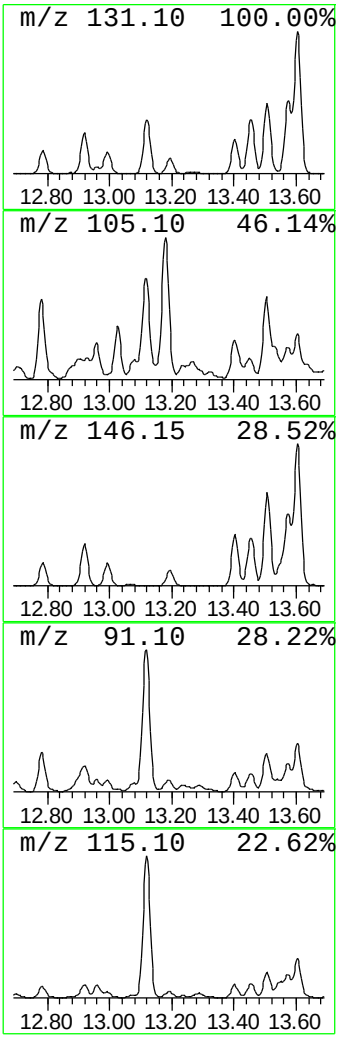
Peak Number 48 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	3.51 ug/L	900158	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	87
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	87
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	87
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	81





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

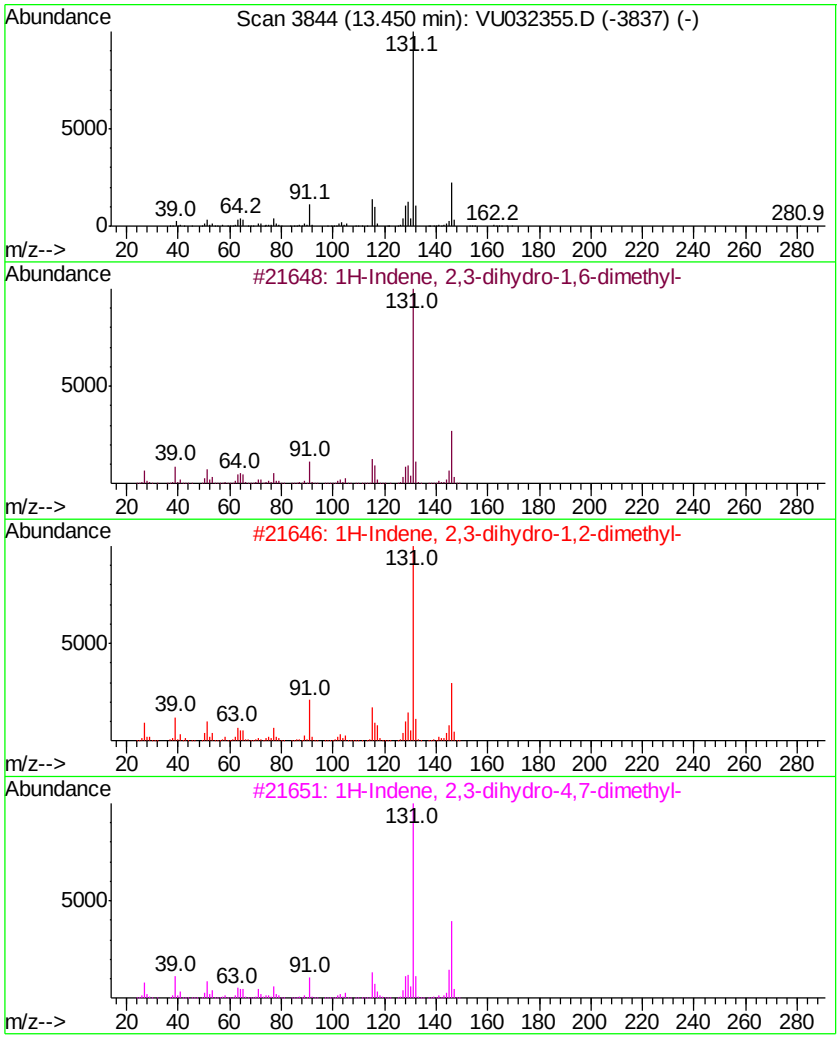
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

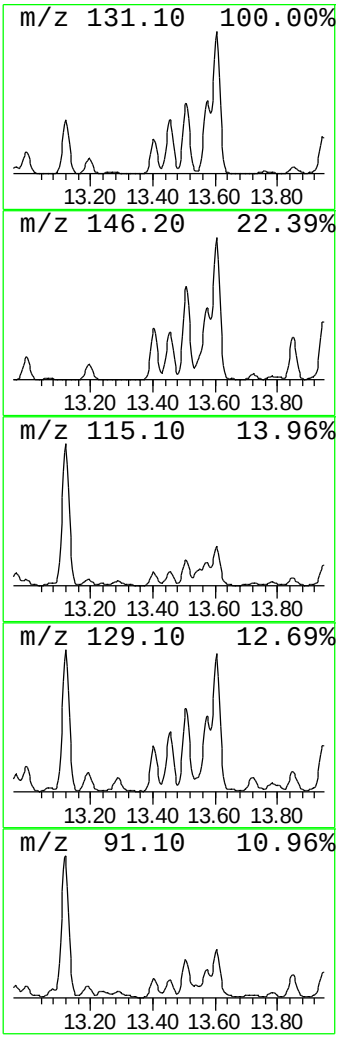
****

Peak Number 51 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.45	6.51 ug/L	1669400	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	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	91
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

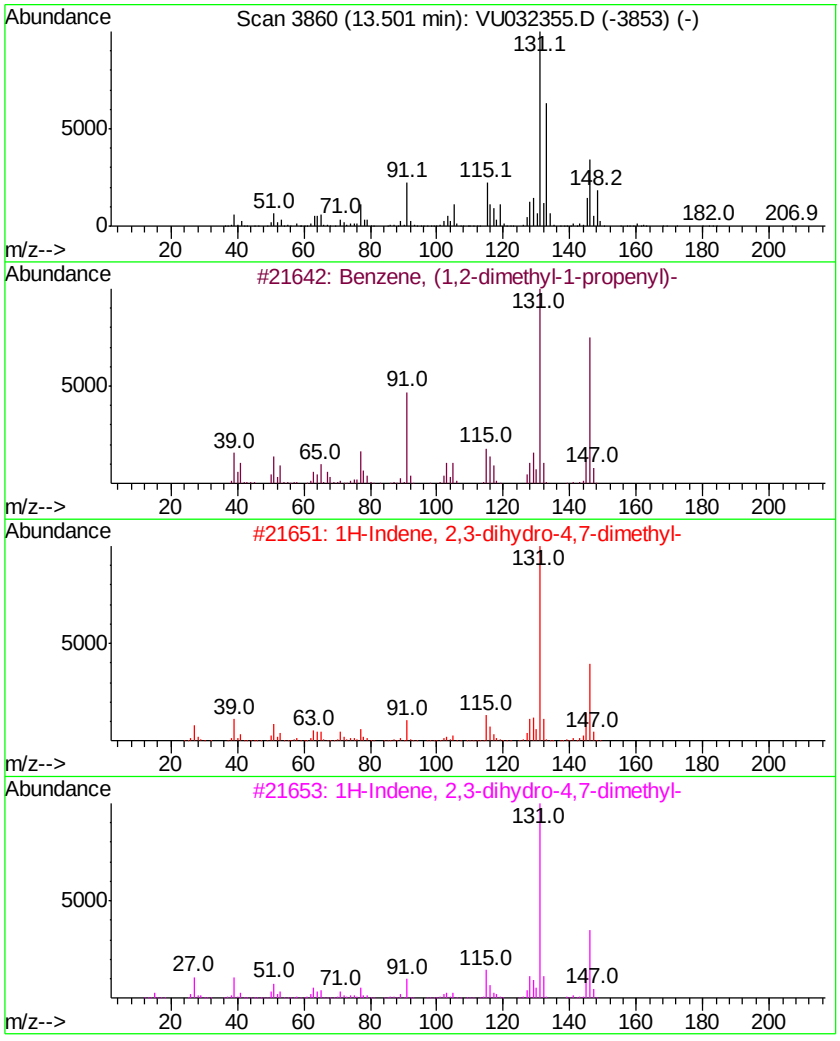
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

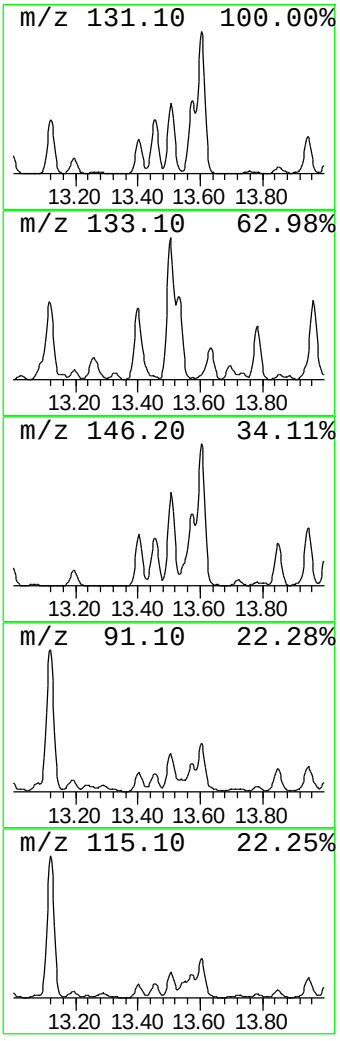
****

Peak Number 52 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	18.79 ug/L	4819220	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	94
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	92
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	89
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	89





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Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

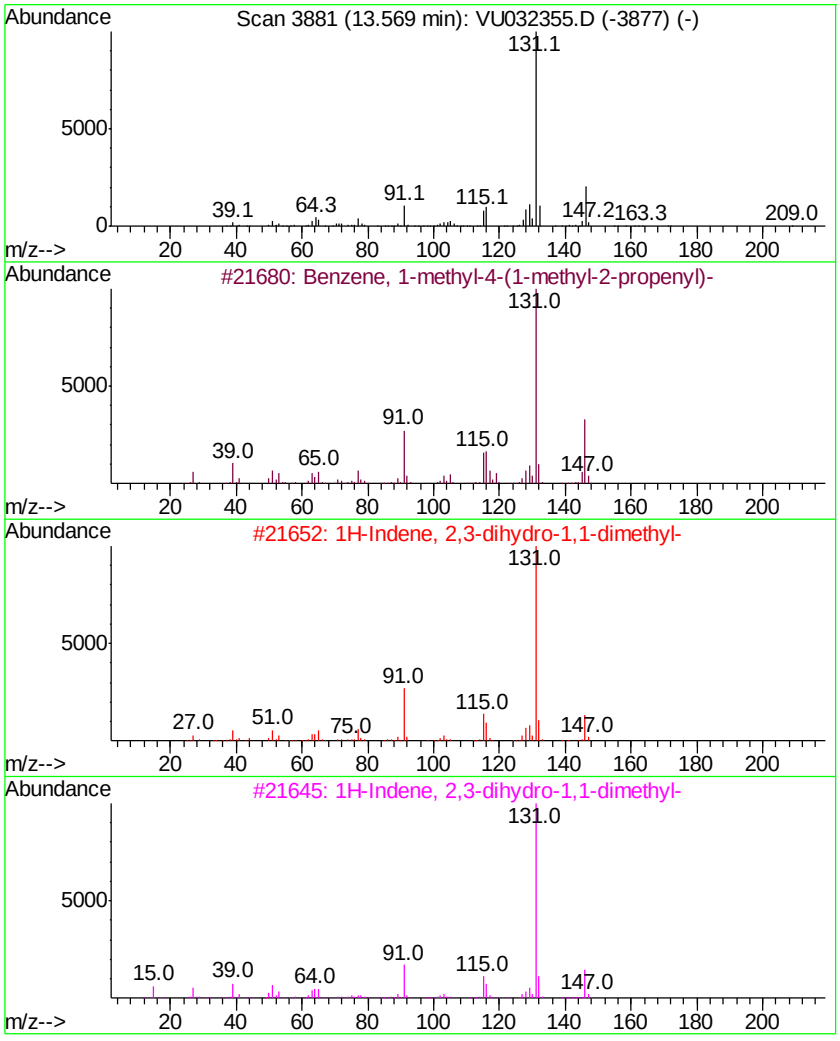
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

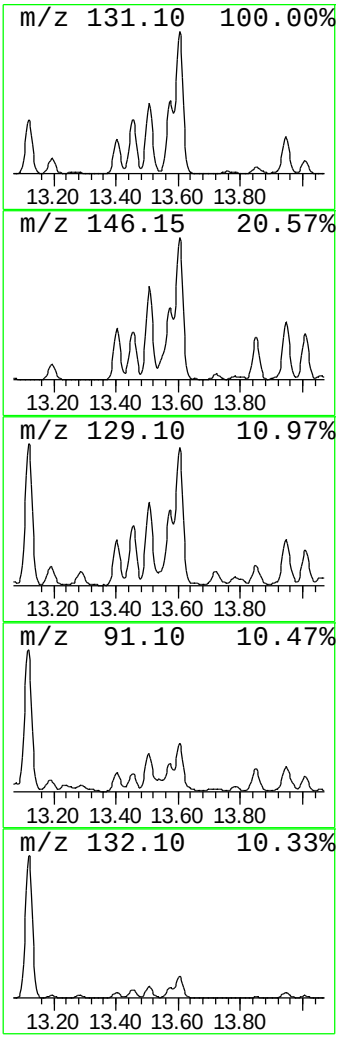
****

Peak Number 53 Benzene, 1-methyl-4-(1-meth... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	5.48 ug/L	1404900	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	90
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	90
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	83
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	80





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

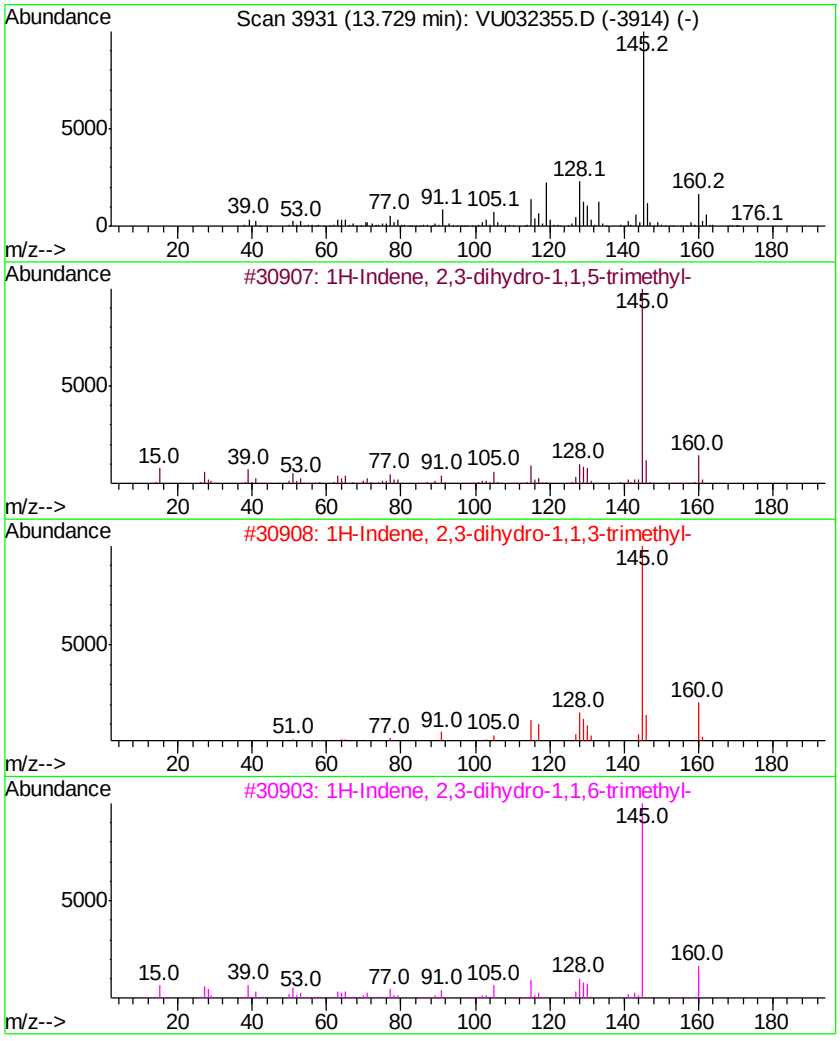
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

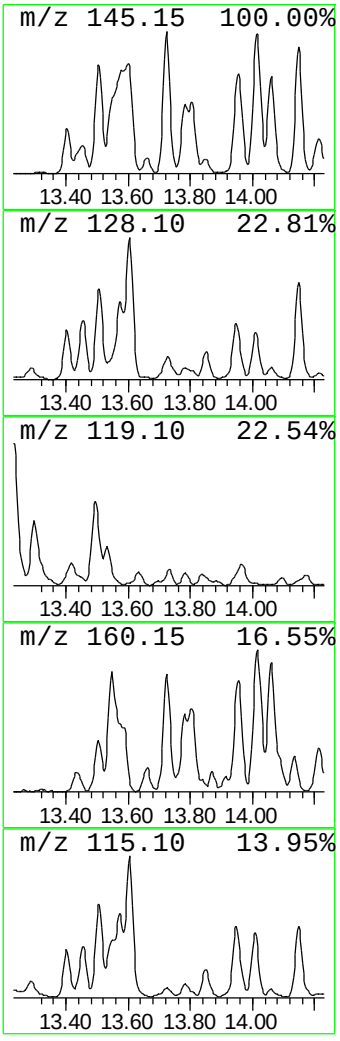
****

Peak Number 55 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	3.14 ug/L	805300	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	93
2	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	72
3	1H-Indene, 2,3-dihydro-1,1,6-tri...	160	C12H16	014276-95-0	70
4	1H-Indene, 2,3-dihydro-1,1,4-tri...	160	C12H16	016204-72-1	70
5	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

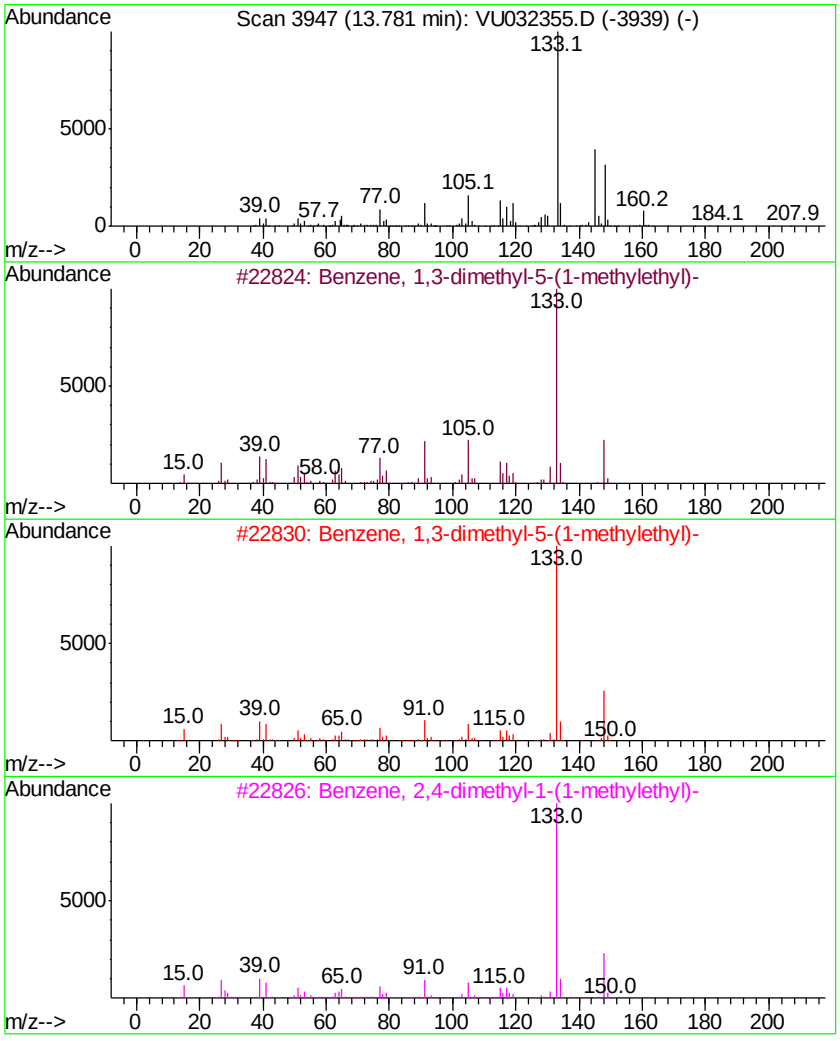
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

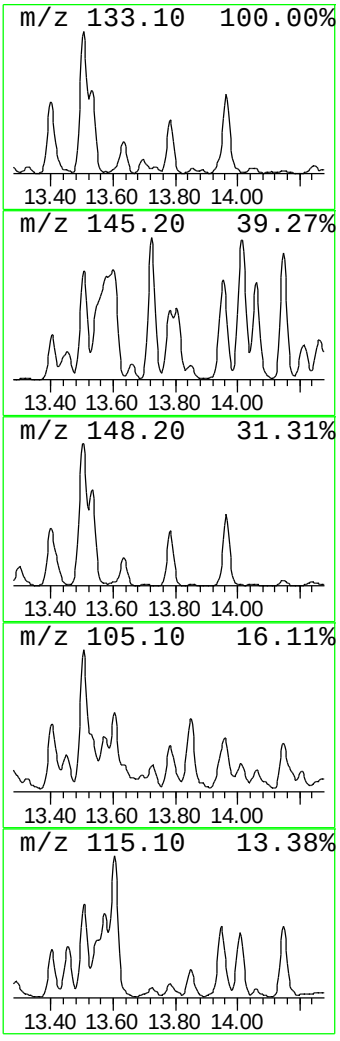
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 56 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	3.32 ug/L	851706	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	64
2	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	64
3	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	64
4	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	64
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

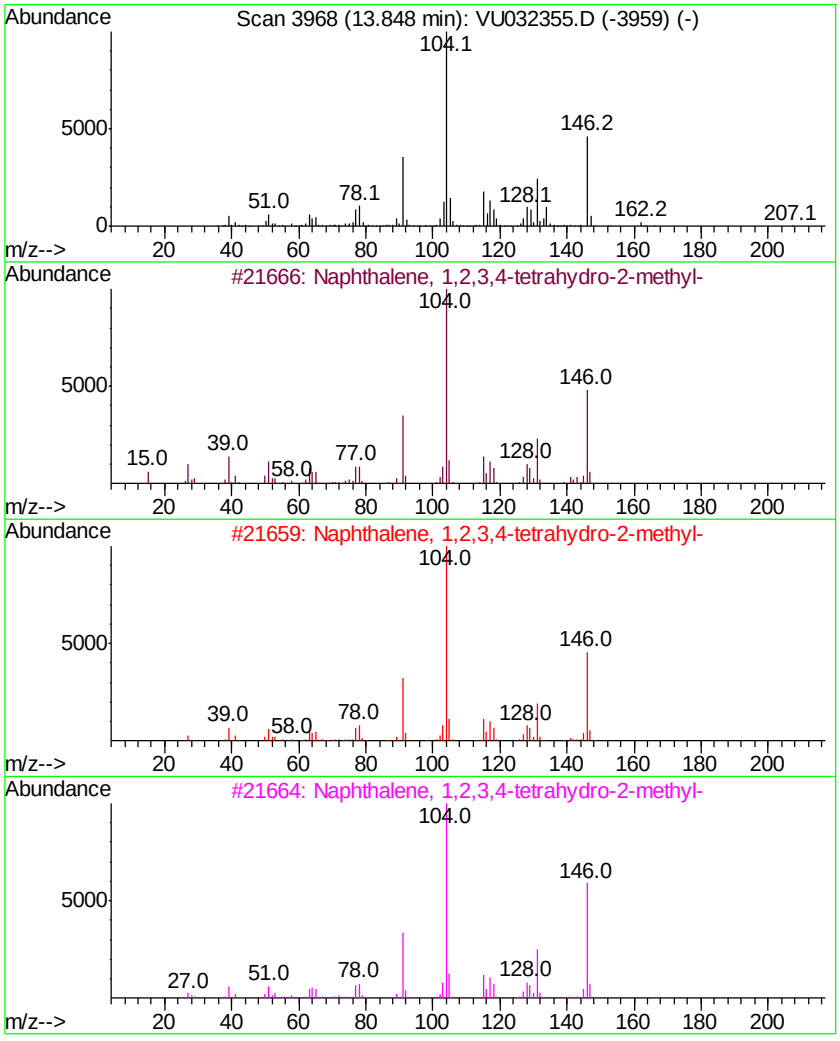
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

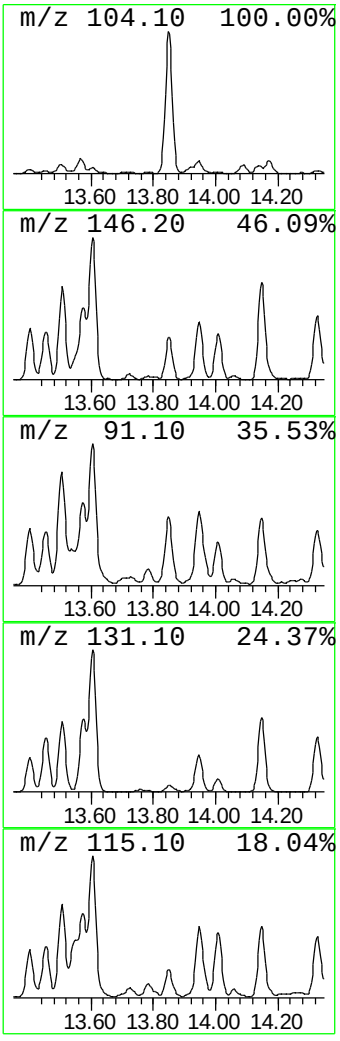
****

Peak Number 57 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	6.82 ug/L	1749150	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	95
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	94
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	94
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	87
5	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	70





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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

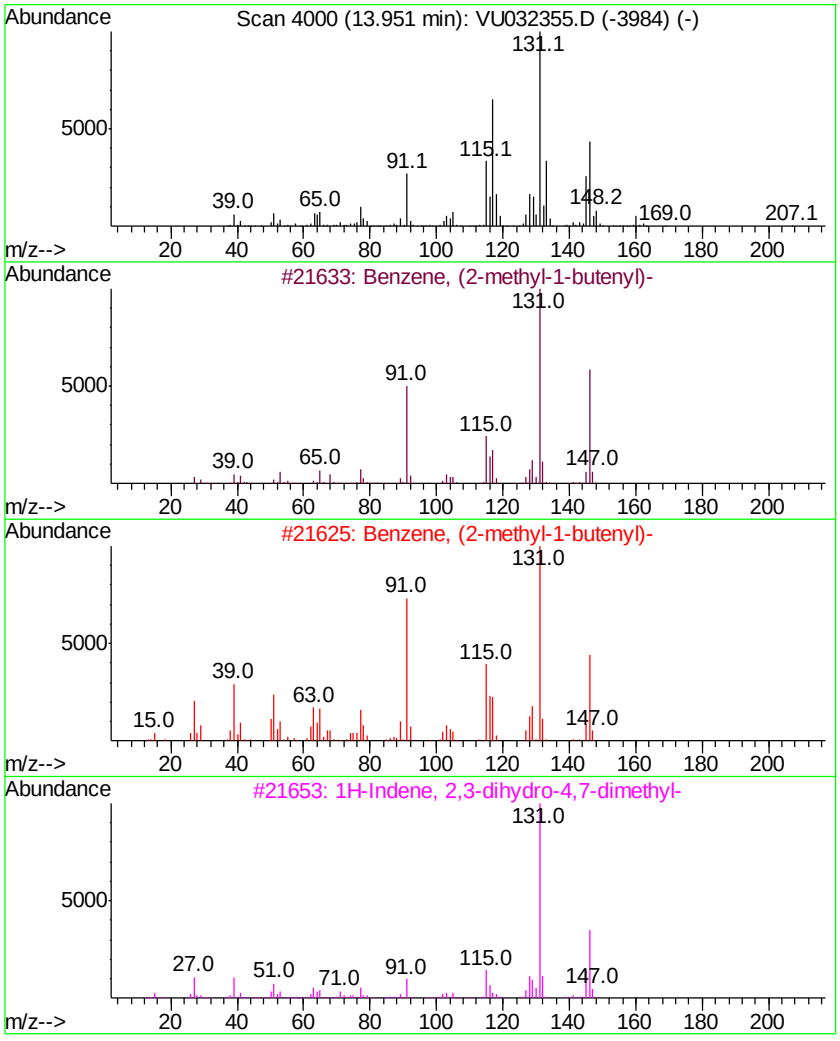
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

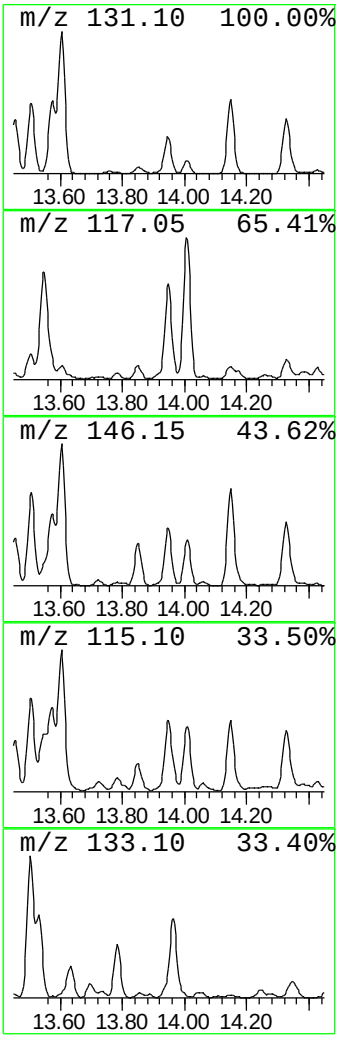
****

Peak Number 58 Benzene, (2-methyl-1-butenyl)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	14.32 ug/L	3672600	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	94
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	70
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	70
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	70
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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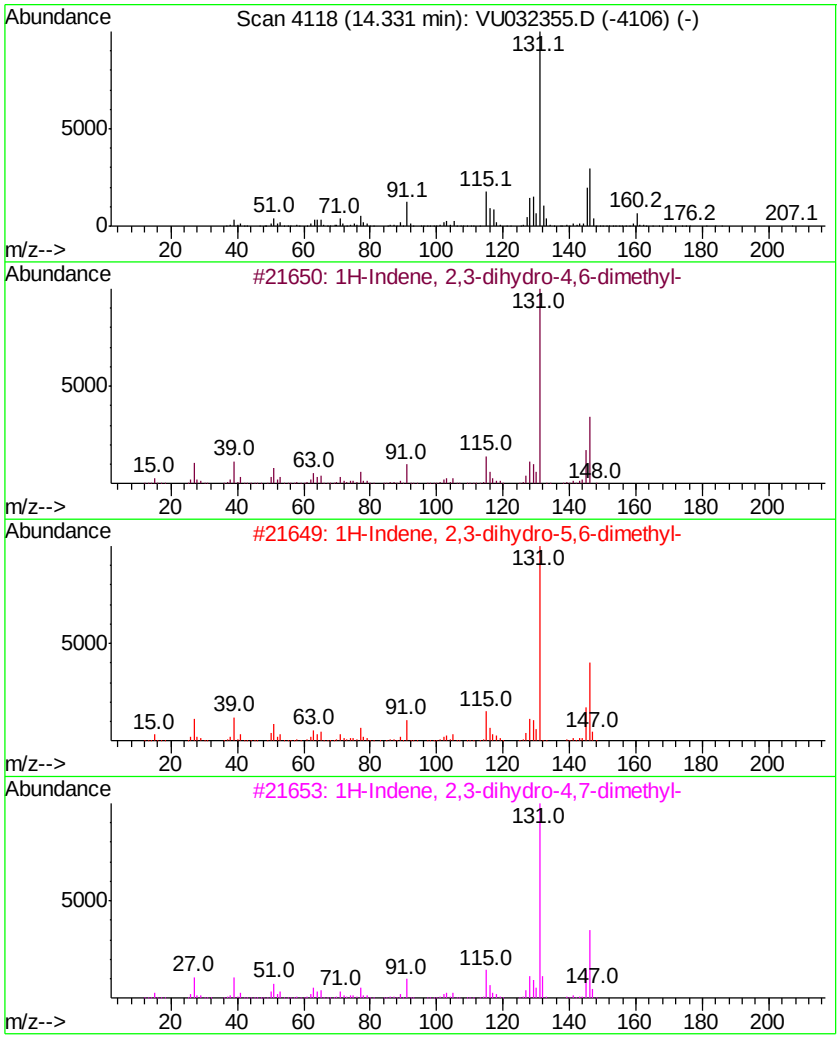
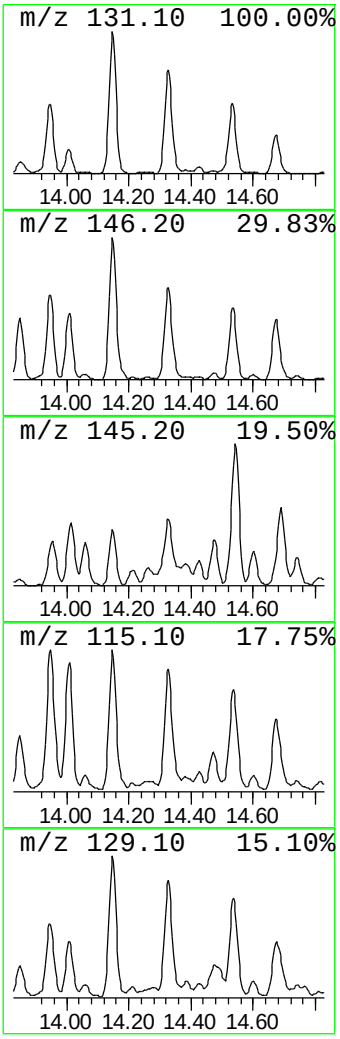
Peak Number 62 1H-Indene, 2,3-dihydro-4,6-... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.33	12.65 ug/L	3243050	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	94
2	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	93
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
4	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	93
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	90





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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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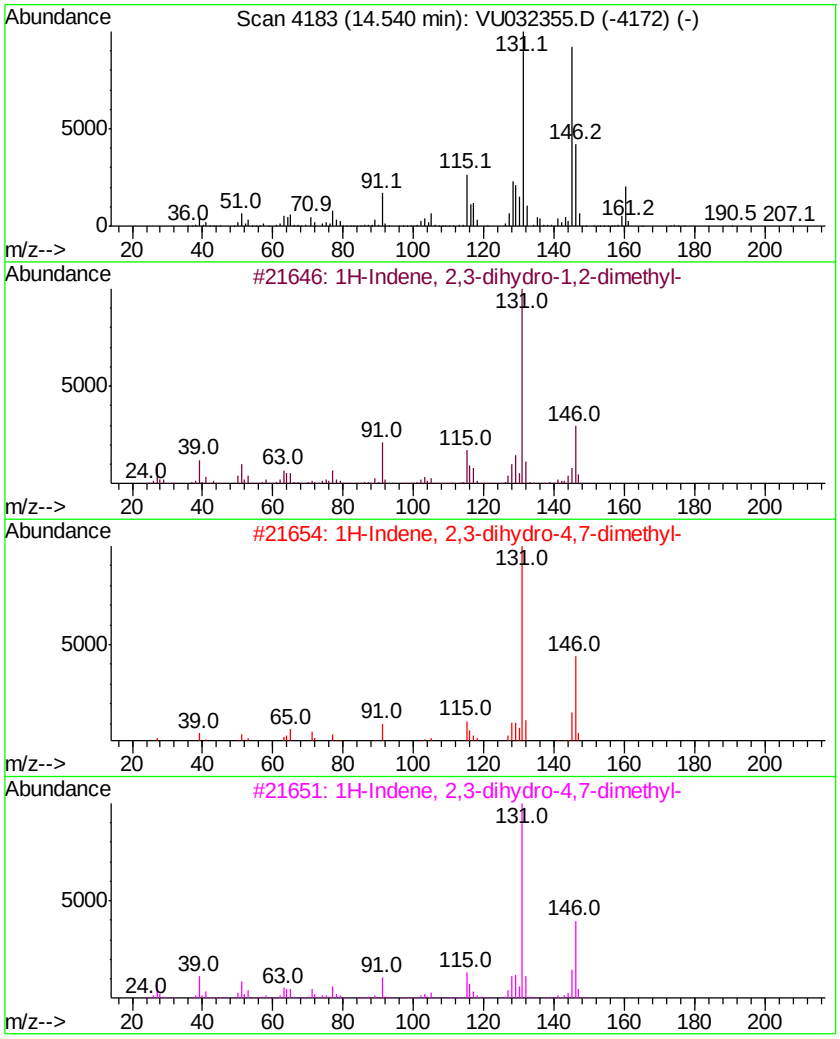
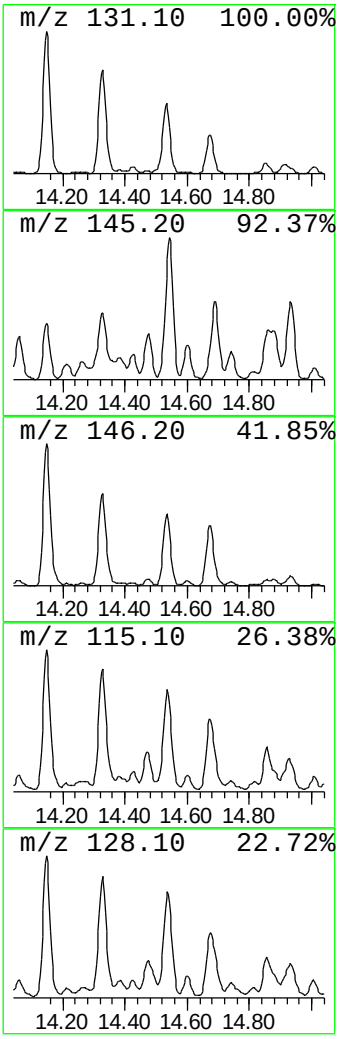
Peak Number 64 Benzene, (3-methyl-2-butenyl)- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.54	11.98 ug/L	3070630	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	76
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	76
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	64
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64
5	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	62





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

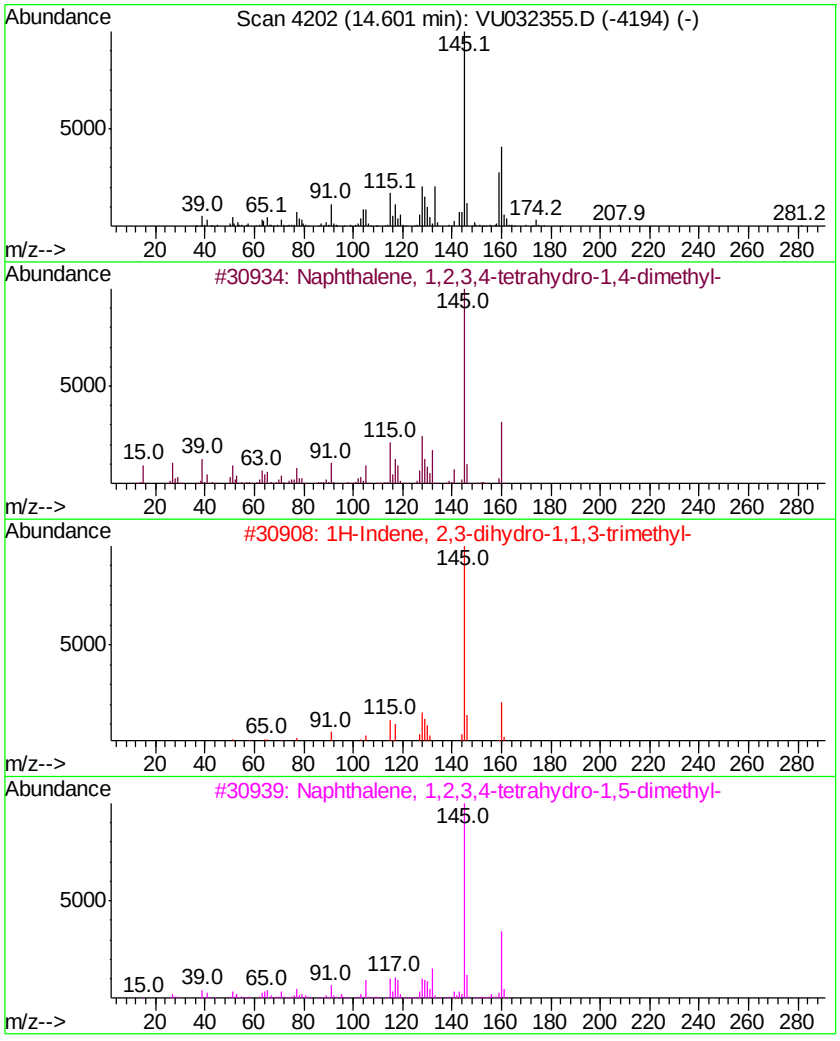
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

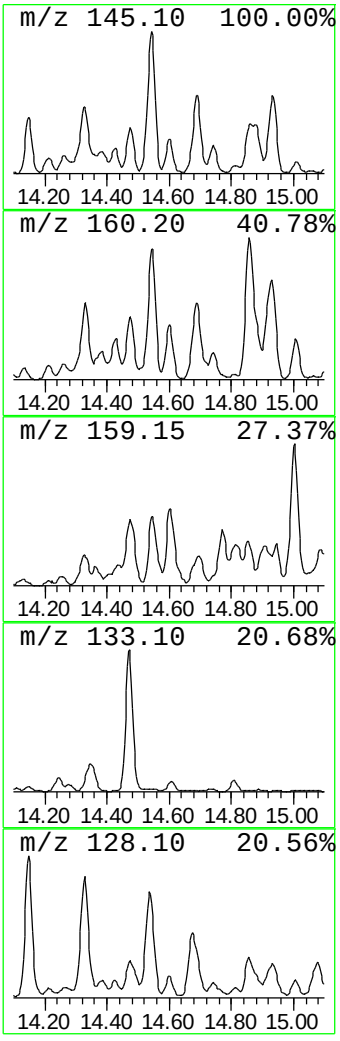
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 65 Benzene, 1,3,5-trimethyl-2-... Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.60	1.85 ug/L	475466	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	90
2	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	89
3	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021564-91-0	76
4	Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	76
5	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	020027-77-4	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032355.D
Acq On : 29 May 2019 12:51
Operator : JC/SP
Sample : K3045-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C48

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...	2.70	30.6	ug/L	5628140	1	5.88	918726	5.0
(DEL) Alkane: Str...	2.99	5.0	ug/L	915450	1	5.88	918726	5.0
(DEL) Alkane: Str...	3.84	3.9	ug/L	718037	1	5.88	918726	5.0
(DEL) Alkane: Str...	3.98	10.2	ug/L	1866730	1	5.88	918726	5.0
(DEL) Alkane: Str...	4.72	7.0	ug/L	1285850	1	5.88	918726	5.0
(DEL) Alkane: Str...	5.07	31.7	ug/L	5830070	1	5.88	918726	5.0
(DEL) Alkane: Cyc...	5.25	6.5	ug/L	1196320	1	5.88	918726	5.0
1-Butanol, 2-ethyl-	5.48	8.4	ug/L	1550320	1	5.88	918726	5.0
(DEL) Alkane: Str...	5.53	24.6	ug/L	4527520	1	5.88	918726	5.0
(DEL) Alkane: Cyc...	6.39	5.0	ug/L	920613	1	5.88	918726	5.0
(DEL) Alkane: Str...	6.47	2.4	ug/L	433876	1	5.88	918726	5.0
(DEL) Alkane: Str...	6.53	4.2	ug/L	779813	1	5.88	918726	5.0
(DEL) Alkane: Cyc...	6.73	6.1	ug/L	1118090	1	5.88	918726	5.0
(DEL) Alkane: Str...	6.92	17.8	ug/L	3274630	1	5.88	918726	5.0
(DEL) Alkane: Str...	7.04	25.2	ug/L	4636980	1	5.88	918726	5.0
Isopentyl propyl ...	7.10	2.4	ug/L	447142	1	5.88	918726	5.0
(DEL) Alkane: Cyc...	7.70	3.2	ug/L	698763	2	9.09	1099960	5.0
(DEL) Alkane: Cyc...	7.91	5.1	ug/L	1126350	2	9.09	1099960	5.0
(DEL) Alkane: Cyc...	8.04	5.6	ug/L	1234040	2	9.09	1099960	5.0
Cyclopentene, 1,2...	8.09	6.5	ug/L	1420060	2	9.09	1099960	5.0
(DEL) Alkane: Cyc...	8.48	2.3	ug/L	510317	2	9.09	1099960	5.0
Cyclohexene, 1,6-...	8.76	2.3	ug/L	507170	2	9.09	1099960	5.0
Pentalene, octahy...	9.18	2.5	ug/L	554934	2	9.09	1099960	5.0
Bicyclo[3.2.1]octane	9.36	2.9	ug/L	632472	2	9.09	1099960	5.0
(DEL) Alkane: Cyc...	9.71	2.5	ug/L	540669	2	9.09	1099960	5.0
Benzene, (2-methy...	11.29	7.1	ug/L	1814550	3	11.48	1282080	5.0
Benzene, cyclopro...	11.76	164.1	ug/L	42069700	3	11.48	1282080	5.0
Benzene, 1,2-diet...	11.98	6.4	ug/L	1630160	3	11.48	1282080	5.0
Benzene, 1-methyl...	12.05	2.4	ug/L	608267	3	11.48	1282080	5.0
Benzene, (1-methy...	12.28	22.6	ug/L	5806790	3	11.48	1282080	5.0
Benzene, 1-etheny...	12.35	40.7	ug/L	10439900	3	11.48	1282080	5.0
1H-Indene, 2,3-di...	12.53	5.4	ug/L	1391300	3	11.48	1282080	5.0
Benzene, 1,3-diet...	12.62	2.4	ug/L	622579	3	11.48	1282080	5.0
Benzene, 1,2,4,5-...	12.65	15.7	ug/L	4018920	3	11.48	1282080	5.0
Benzene, 1,2,3,5-...	12.70	5.2	ug/L	1319690	3	11.48	1282080	5.0
2,2-Dimethylinden...	12.92	11.9	ug/L	3046790	3	11.48	1282080	5.0
Benzene, 1-etheny...	12.96	4.9	ug/L	1255230	3	11.48	1282080	5.0
Benzene, 2-etheny...	13.12	74.0	ug/L	18985300	3	11.48	1282080	5.0
1H-Indene, 2,3-di...	13.19	3.5	ug/L	900158	3	11.48	1282080	5.0
1H-Indene, 2,3-di...	13.45	6.5	ug/L	1669400	3	11.48	1282080	5.0
Benzene, (1,2-dim...	13.50	18.8	ug/L	4819220	3	11.48	1282080	5.0
Benzene, 1-methyl...	13.57	5.5	ug/L	1404900	3	11.48	1282080	5.0
1H-Indene, 2,3-di...	13.73	3.1	ug/L	805300	3	11.48	1282080	5.0
Benzene, 1,3-dime...	13.78	3.3	ug/L	851706	3	11.48	1282080	5.0
Naphthalene, 1,2,...	13.85	6.8	ug/L	1749150	3	11.48	1282080	5.0
Benzene, (2-methy...	13.95	14.3	ug/L	3672600	3	11.48	1282080	5.0
1H-Indene, 2,3-di...	14.33	12.7	ug/L	3243050	3	11.48	1282080	5.0
Benzene, (3-methy...	14.54	12.0	ug/L	3070630	3	11.48	1282080	5.0
Benzene, 1,3,5-tr...	14.60	1.9	ug/L	475466	3	11.48	1282080	5.0