LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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	1.302	60	66	80	rVB	217260	249676	1.94%	0.519%
2	1.399	86	96	107	rBV	185718	209370	1.63%	0.435%
3	1.675	174	182	199	rVB2	137234	211770	1.65%	0.440%
4	2.270	357	367	377	rBV	314246	473117	3.68%	0.983%
5	4.190	949	964	1002	rBV	161052	518787	4.04%	1.078%
6	4.643	1089	1105	1122	rBV	214101	512996	3.99%	1.066%
7	5.248	1272	1293	1304	rBV2	279890	683922	5.33%	1.421%
8	5.331	1304	1319	1327	rVV3	439758	1165134	9.07%	2.421%
9	5.383	1328	1335	1350	rVV	464940	988179	7.70%	2.053%
10	5.473	1351	1363	1374	rVV3	162136	369318	2.88%	0.767%
11	5.547	1374	1386	1399	rVB3	136741	296053	2.31%	0.615%
12	5.881	1477	1490	1510	rBV	450982	908626	7.08%	1.888%
13	6.328	1614	1629	1640	rBV2	261182	535348	4.17%	1.112%
14	6.431	1654	1661	1676	rVB3	102660	195975	1.53%	0.407%
15	6.865	1773	1796	1830	rBV	197436	425581	3.31%	0.884%
16	7.228	1897	1909	1934	rBV2	127781	318843	2.48%	0.663%
17	7.563	1994	2013	2027	rBV	547272	1002705	7.81%	2.084%
18	7.704	2046	2057	2076	rVB	98340	189530	1.48%	0.394%
19	7.858	2094	2105	2115	rBV3	140846	270633	2.11%	0.562%
20	7.952	2127	2134	2150	rVB	169734	291842	2.27%	0.606%
21	8.312	2230	2246	2279	rBV	603222	1176665	9.16%	2.445%
22	8.643	2338	2349	2364	rVB	857892	1401093	10.91%	2.912%
23	9.087	2475	2487	2500	rBV	668617	1112539	8.66%	2.312%
24	9.183	2501	2517	2532	rVB	192849	406159	3.16%	0.844%
25	9.292	2536	2551	2562	rBV	8628474	12841327	100.00%	26.685%
26	9.360	2562	2572	2589	rVB	1864249	3167531	24.67%	6.582%
27	9.489	2601	2612	2624	rVB5	86469	176120	1.37%	0.366%
28	9.562	2624	2635	2646	rVB3	135917	223333	1.74%	0.464%
29	10.161	2806	2821	2844	rBV	4013764	6148723	47.88%	12.777%
30	10.427	2892	2904	2921	rVB	209218	373469	2.91%	0.776%
31	10.585	2943	2953	2961	rBV2	101003	168105	1.31%	0.349%
32	11.093	3096	3111	3120	rVV2	93127	189255	1.47%	0.393%
33	11.289	3151	3172	3175	rBV	133936	235904	1.84%	0.490%
34	11.318	3175	3181	3200	rVB	380596	633841	4.94%	1.317%

LSC Area Percent Report

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Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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	11.472	3216	3229	3251	rVB3	1266798	2582377	20.11%	5.366%
36	11.685	3283	3295	3303	rBV2	192337	309303	2.41%	0.643%
37	11.762	3303	3319	3337	rVV	2686371	4596895	35.80%	9.552%
38	11.858	3338	3349	3374	rVB3	693697	1254452	9.77%	2.607%
39	12.283	3464	3481	3493	rBV	313410	541169	4.21%	1.125%
40	12.350	3493	3502	3522	rVB2	338316	600355	4.68%	1.248%
41	12.533	3547	3559	3571	rVB	98250	166436	1.30%	0.346%

Sum of corrected areas: 48122456

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Operator : JC/SP
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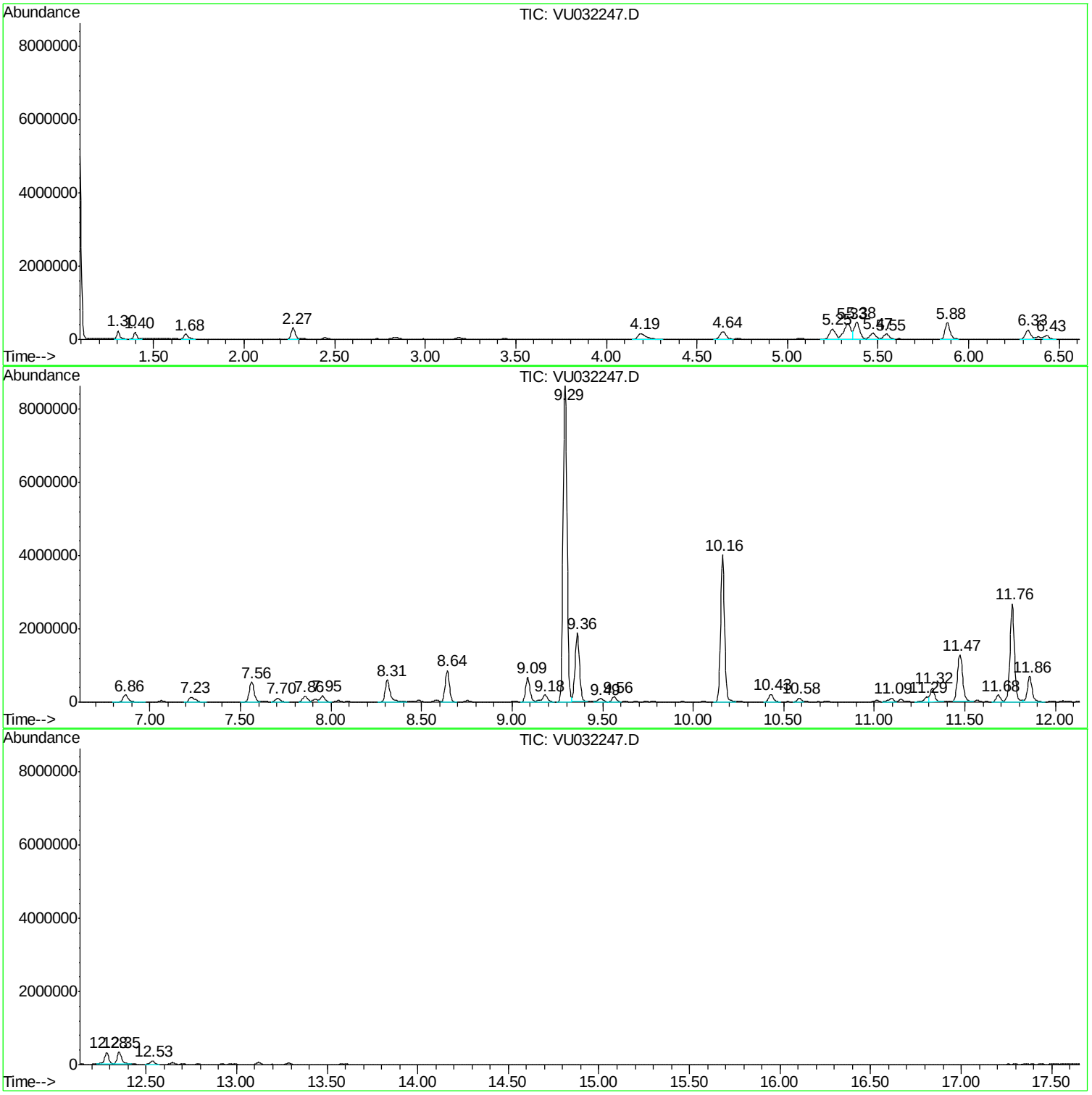
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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



Library Search Compound Report

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Data File : VU032247.D
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Operator : JC/SP
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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

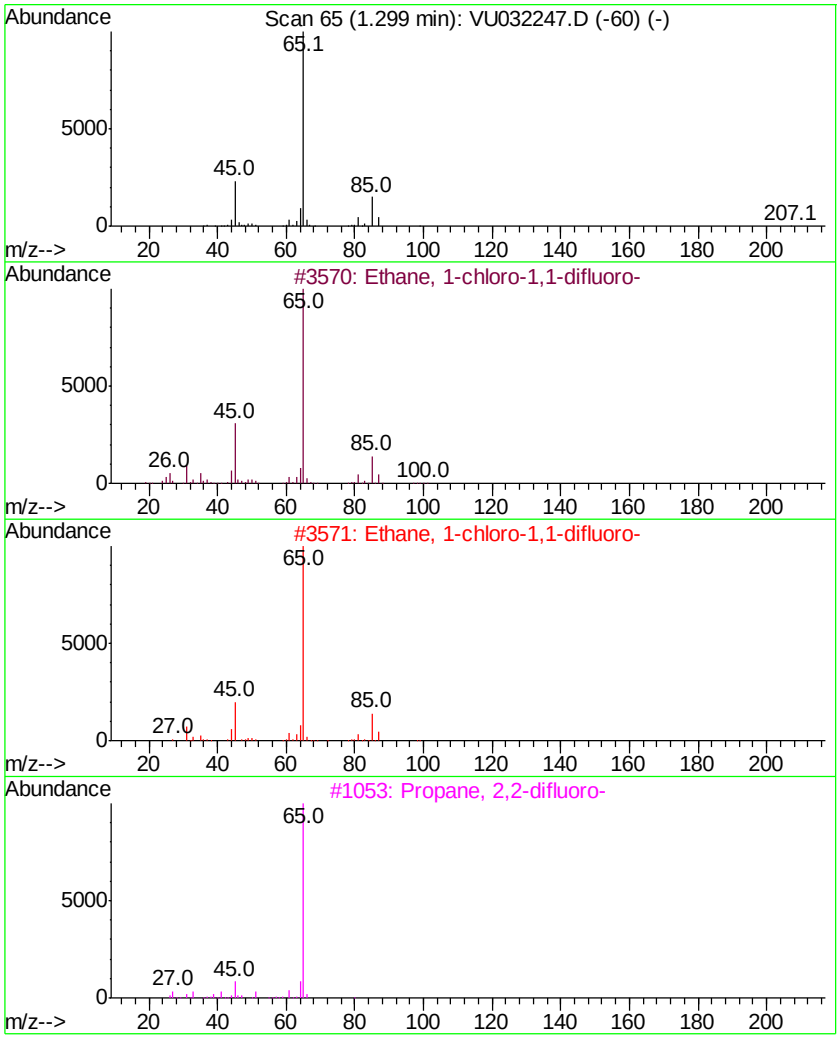
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

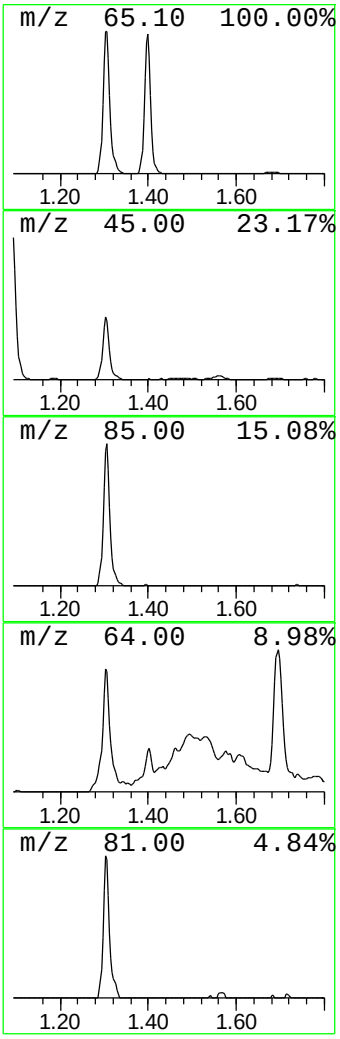
****

Peak Number 1 Ethane, 1-chloro-1,1-difluoro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.30	1.37 ug/L	249676	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1-chloro-1,1-difluoro-	100	C2H3ClF2	000075-68-3	83
2	Ethane, 1-chloro-1,1-difluoro-	100	C2H3ClF2	000075-68-3	38
3	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	9
4	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	9
5	Benzene, 1-nitro-2-(p-methylphen...	247	C13H10FNO3	028987-57-7	1





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

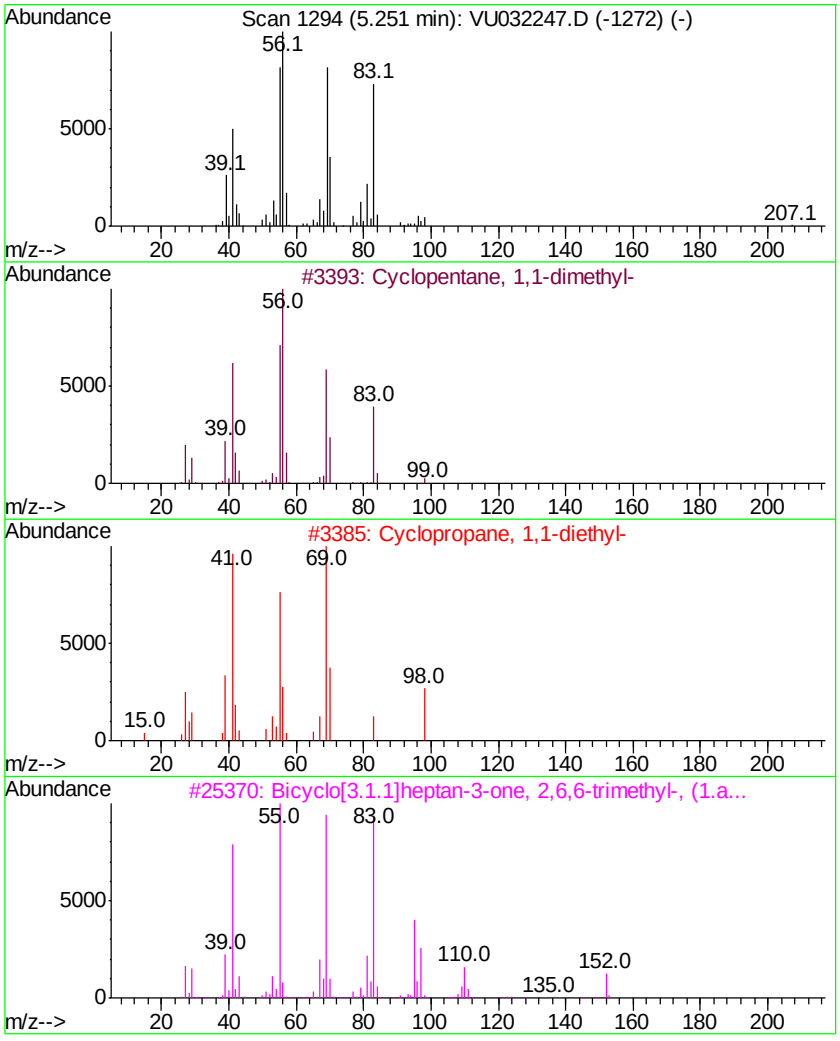
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

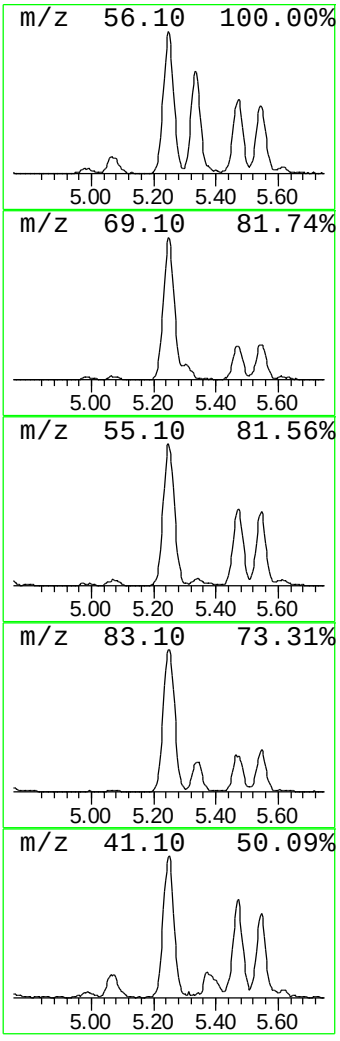
****

Peak Number 2 (DEL) Alkane: Cyclic5.25 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.25	3.76 ug/L	683922	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	78
2	Cyclopropane, 1,1-diethyl-	98	C7H14	001003-19-6	55
3	Bicyclo[3.1.1]heptan-3-one, 2,6,...	152	C10H16O	000547-60-4	47
4	Bicyclo[3.1.1]heptan-3-one, 2,6,...	152	C10H16O	015358-88-0	43
5	Bicyclo[3.1.1]heptan-3-one, 2,6,...	152	C10H16O	015358-88-0	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

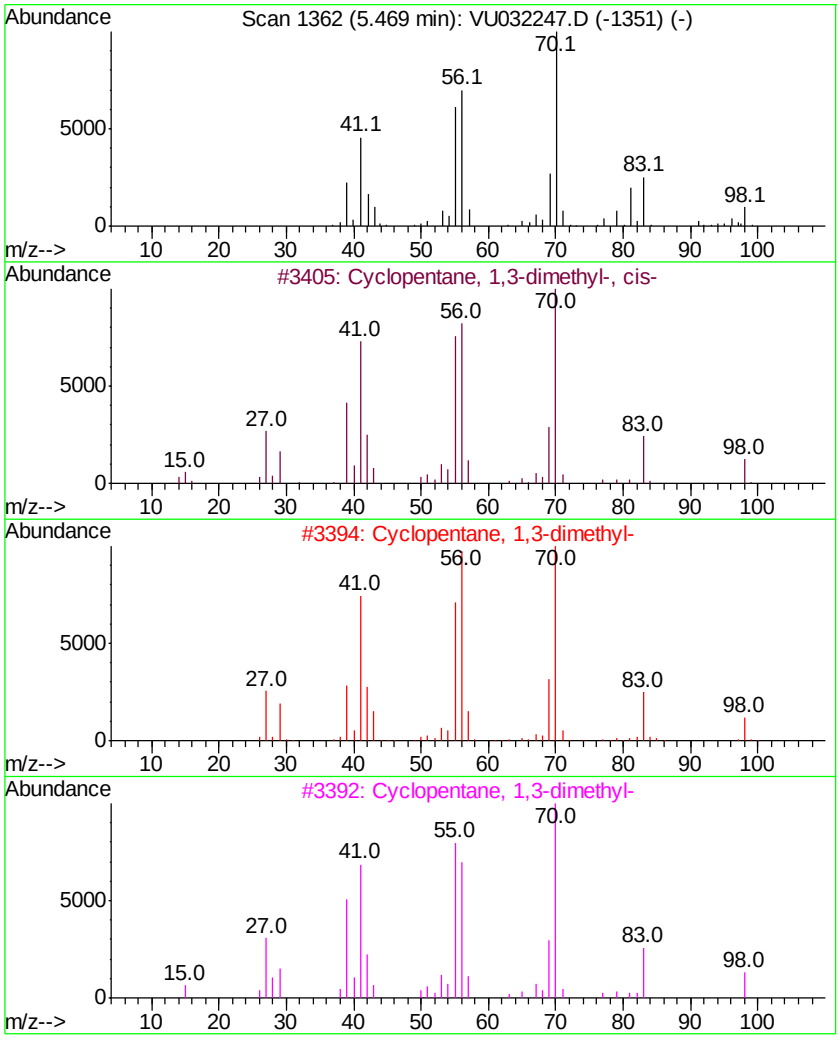
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

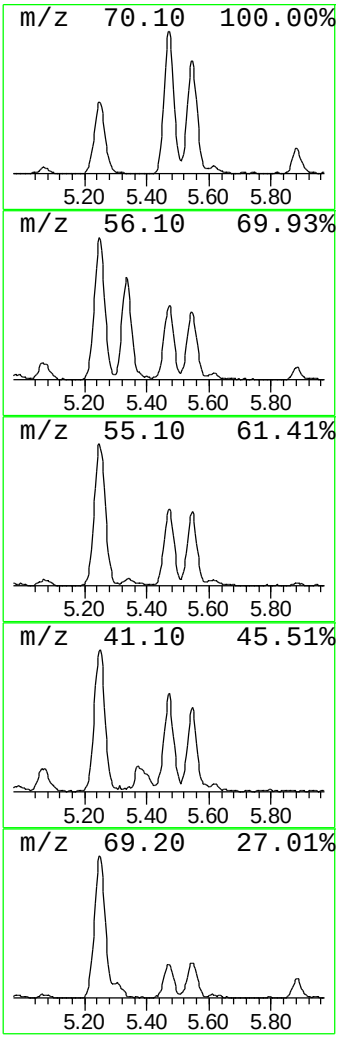
****

Peak Number 3 (DEL) Alkane: Cyclic5.47 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.47	2.03 ug/L	369318	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	90
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	87
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	87
4	1-Heptanol	116	C7H16O	000111-70-6	59
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

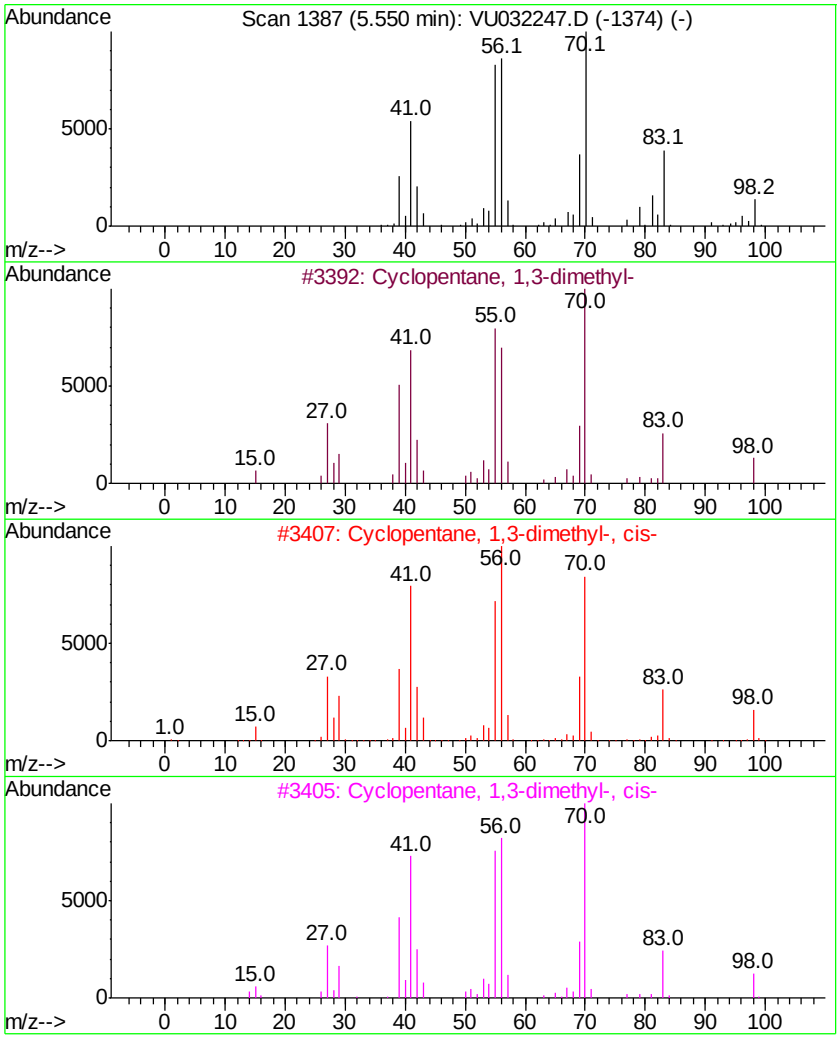
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

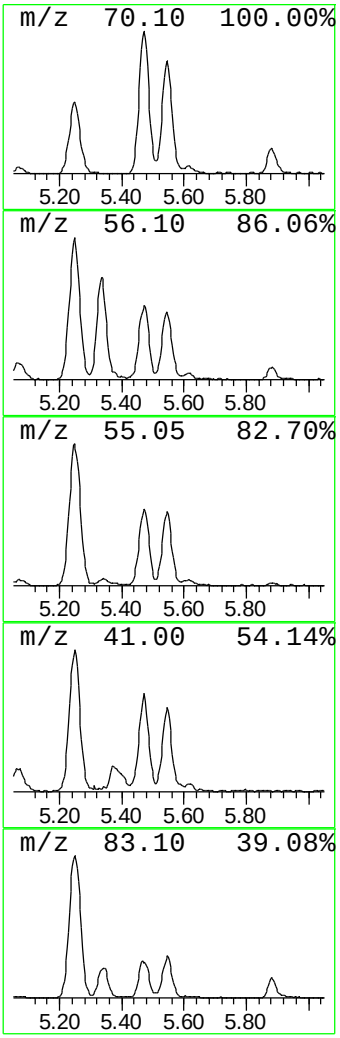
****

Peak Number 4 (DEL) Alkane: Cyclic5.55 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	1.63 ug/L	296053	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	93
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	87
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	87
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	87





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Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

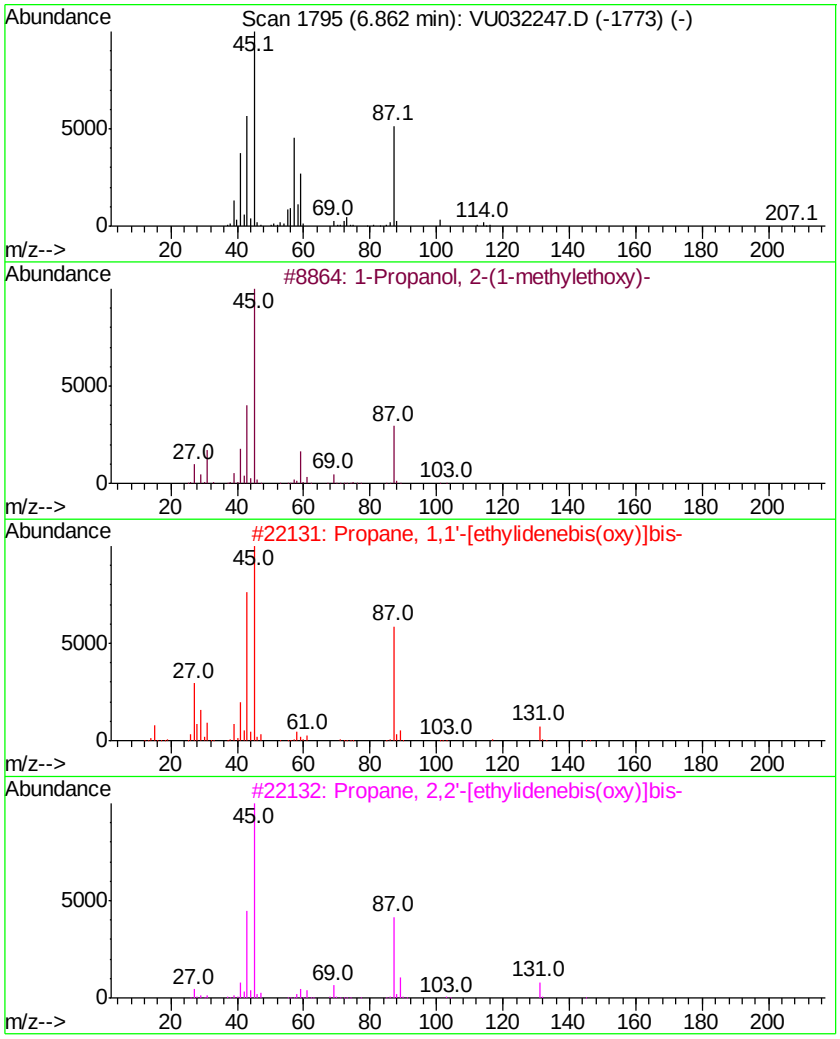
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

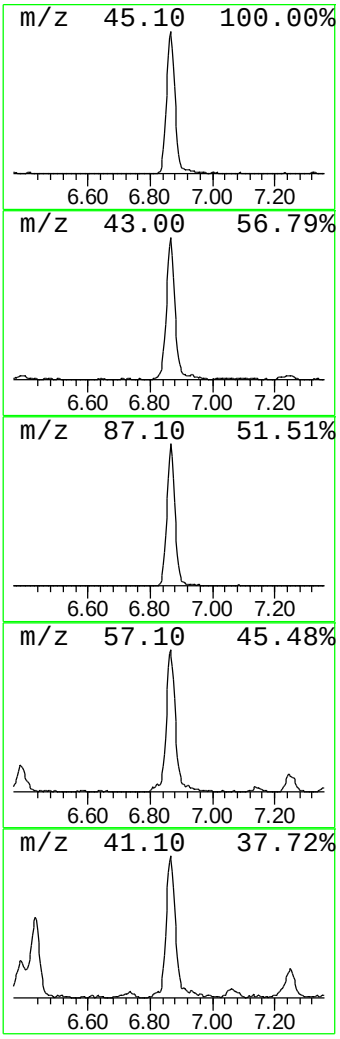
****

Peak Number 5 1-Propanol, 2-(1-methyletho... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.86	2.34 ug/L	425581	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(1-methylethoxy)-	118	C6H14O2	003944-37-4	64
2	Propane, 1,1'-[ethylidenebis(oxy...	146	C8H18O2	000105-82-8	53
3	Propane, 2,2'-[ethylidenebis(oxy...	146	C8H18O2	004285-59-0	53
4	Propane, 1,1'-[ethylidenebis(oxy...	146	C8H18O2	000105-82-8	50
5	5-Methyl-4,6-dioxadecane	160	C9H20O2	1000334-83-4	45





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Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

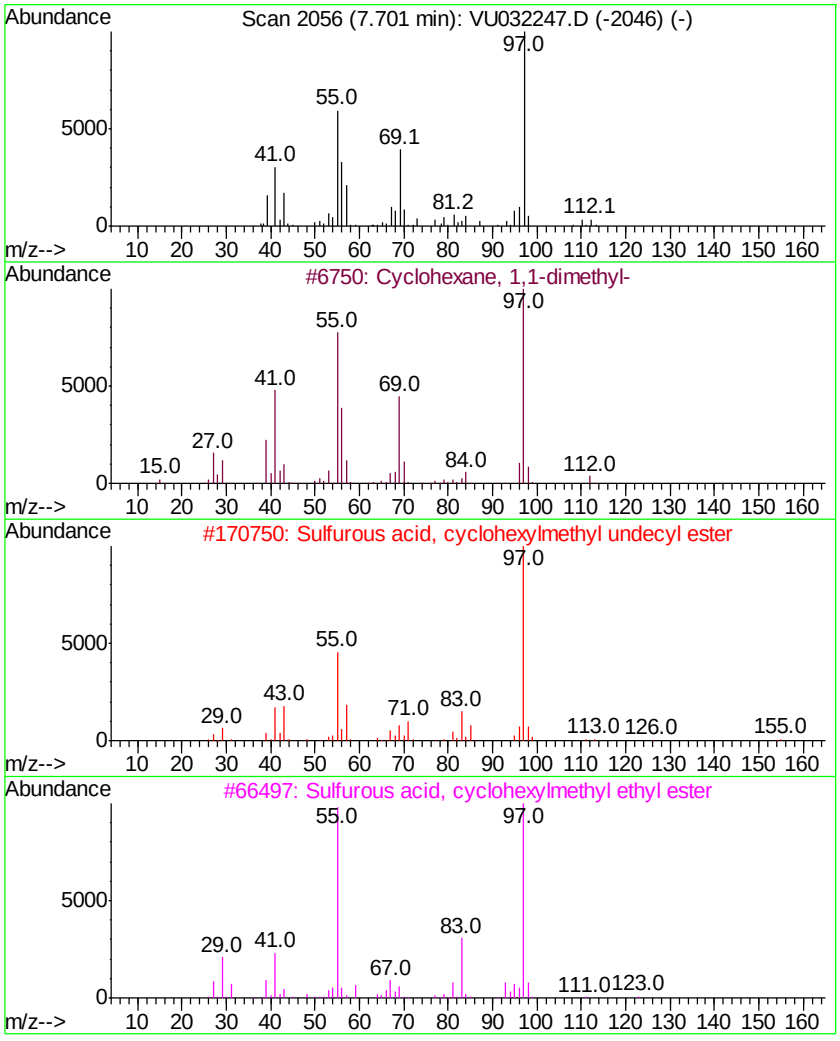
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

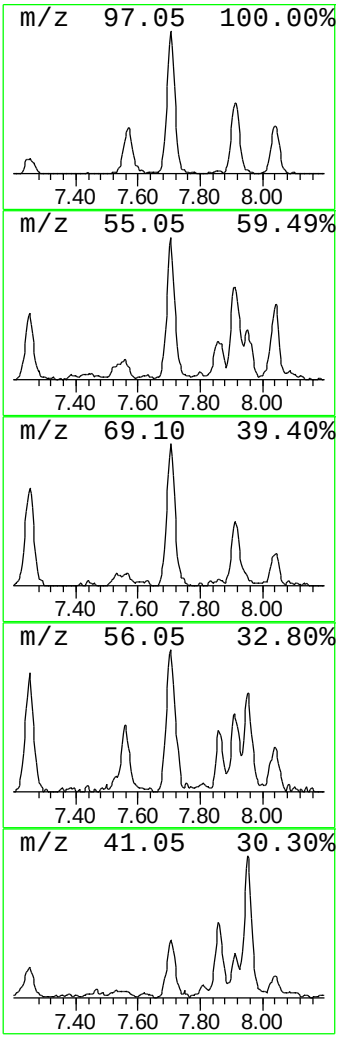
****

Peak Number 7 (DEL) Alkane: Cyclic7.70 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	0.85 ug/L	189530	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	87
2	Sulfurous acid, cyclohexylmethyl...	332	C18H36O3S	1000309-21-9	53
3	Sulfurous acid, cyclohexylmethyl...	206	C9H18O3S	1000309-21-2	50
4	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	50
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	49





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Quant Title : TRACE VOA SOM01.0

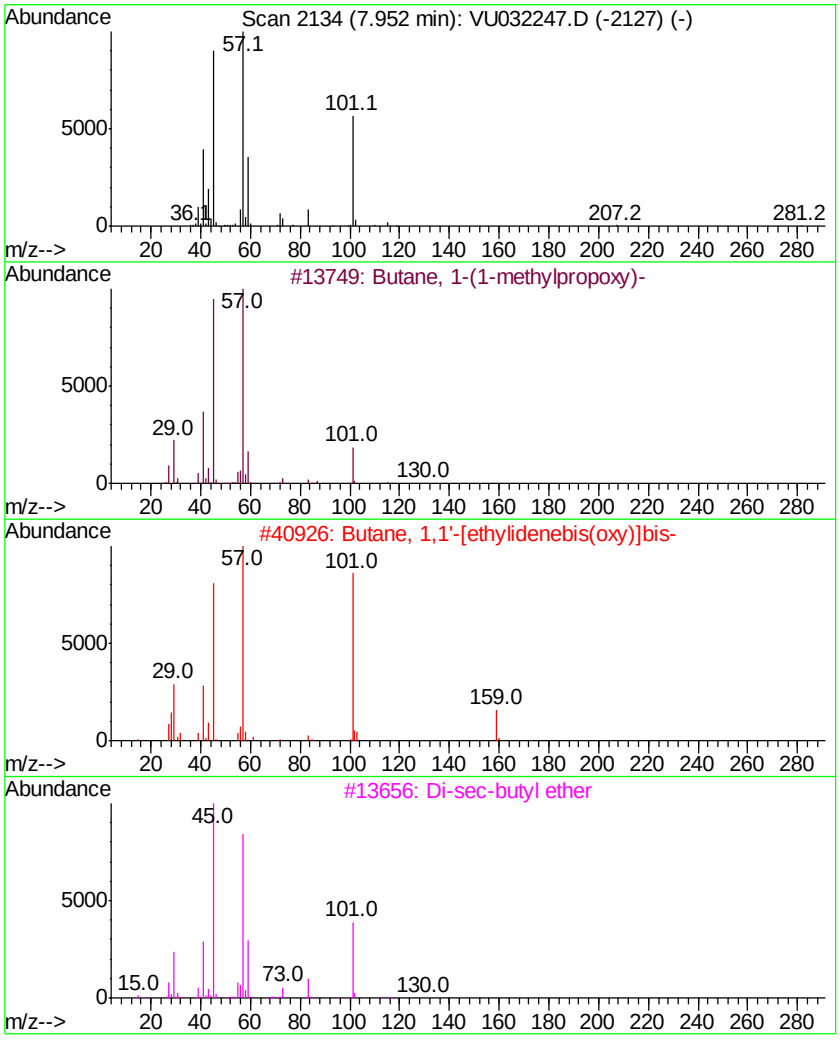
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

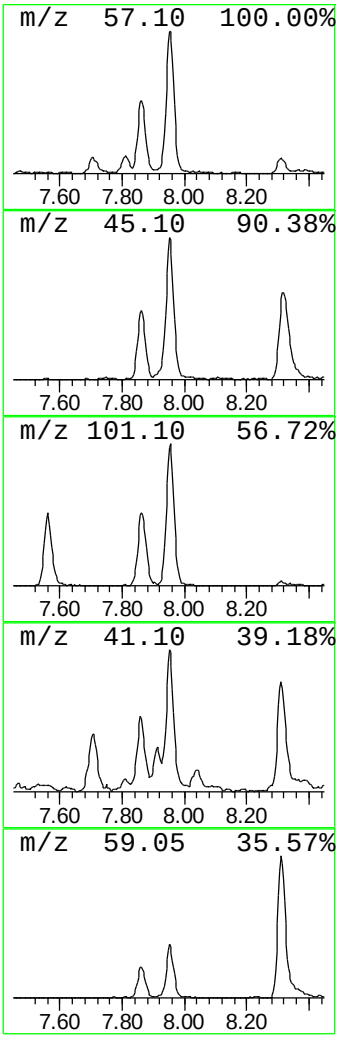
****

Peak Number 8 Butane, 1-(1-methylpropoxy)- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.95	1.31 ug/L	291842	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1-(1-methylpropoxy)-	130	C8H18O	000999-65-5	64
2	Butane, 1,1'-[ethylidenebis(oxy)...	174	C10H22O2	000871-22-7	64
3	Di-sec-butyl ether	130	C8H18O	006863-58-7	56
4	2-t-Butyl-5-methyl[1,3]dioxolan-...	158	C8H14O3	130930-47-1	50
5	Butane, 1,1'-[ethylidenebis(oxy)...	174	C10H22O2	000871-22-7	50





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ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

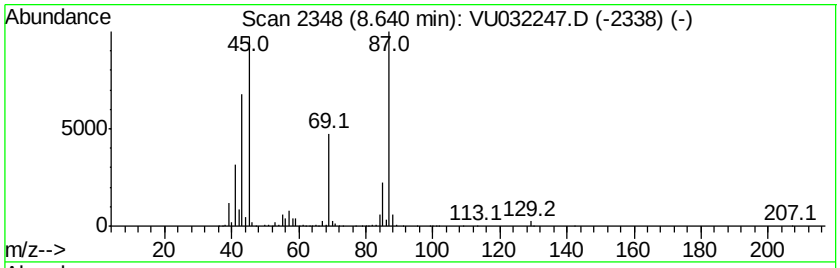
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

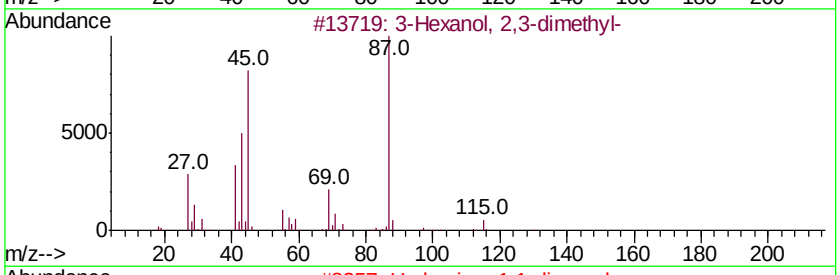
****

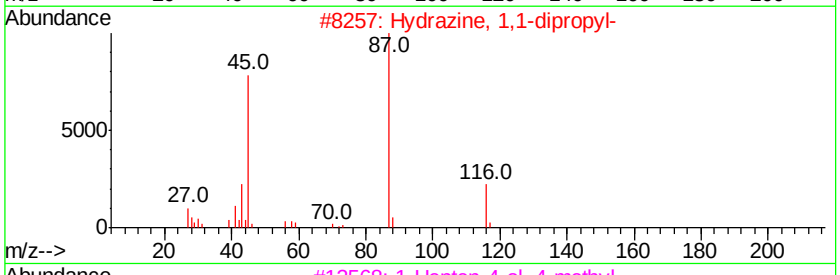
Peak Number 9 3-Hexanol, 2,3-dimethyl- Concentration Rank 4

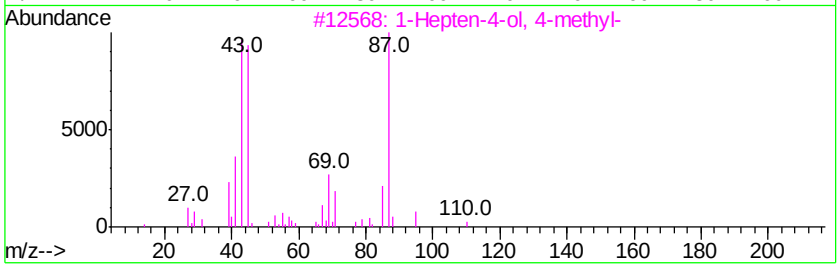
R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	6.30 ug/L	1401090	Chlorobenzene-d5	9.09

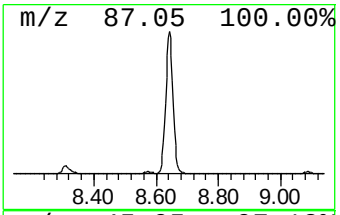
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol, 2,3-dimethyl-	130	C8H18O	004166-46-5	72
2	Hydrazine, 1,1-dipropyl-	116	C6H16N2	004986-50-9	64
3	1-Hepten-4-ol, 4-methyl-	128	C8H16O	001186-31-8	64
4	3-Pentanol, 3-ethyl-	116	C7H16O	000597-49-9	64
5	Dimethyl-cyano-phosphine	87	C3H6NP	031641-57-3	59

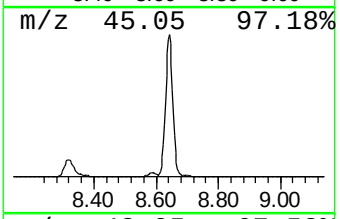


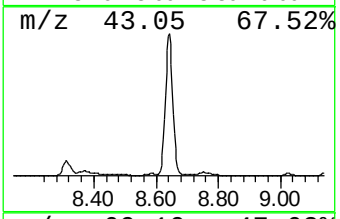


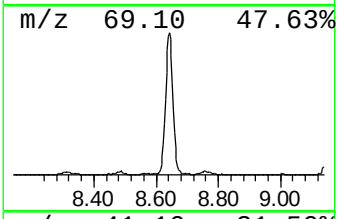


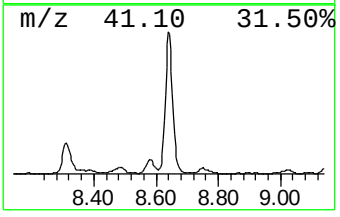












Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

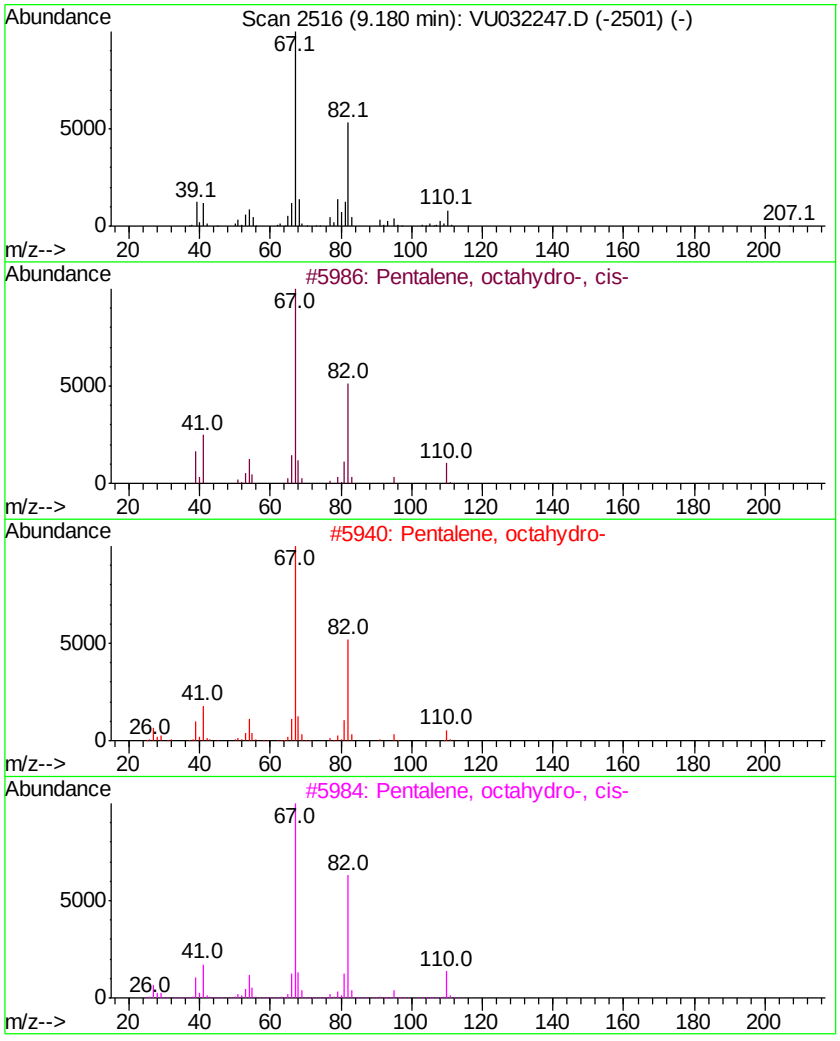
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

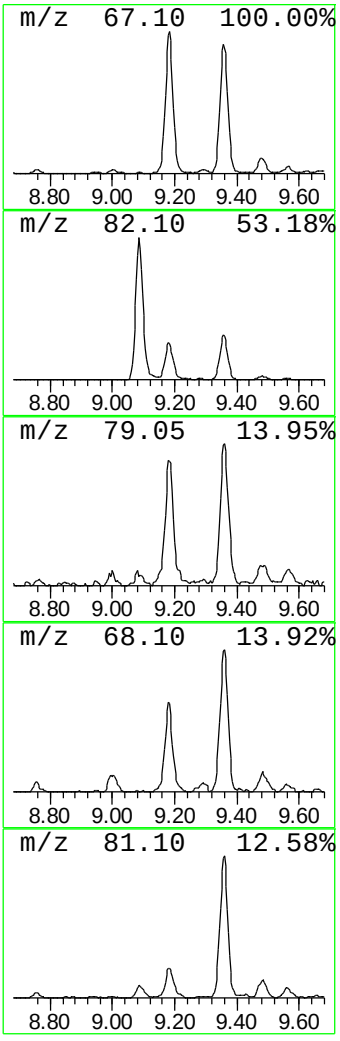
****

Peak Number 10 Pentalene, octahydro-, cis- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	1.83 ug/L	406159	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	70
4	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	70
5	(Z),(Z)-2,4-Hexadiene	82	C6H10	006108-61-8	64





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Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

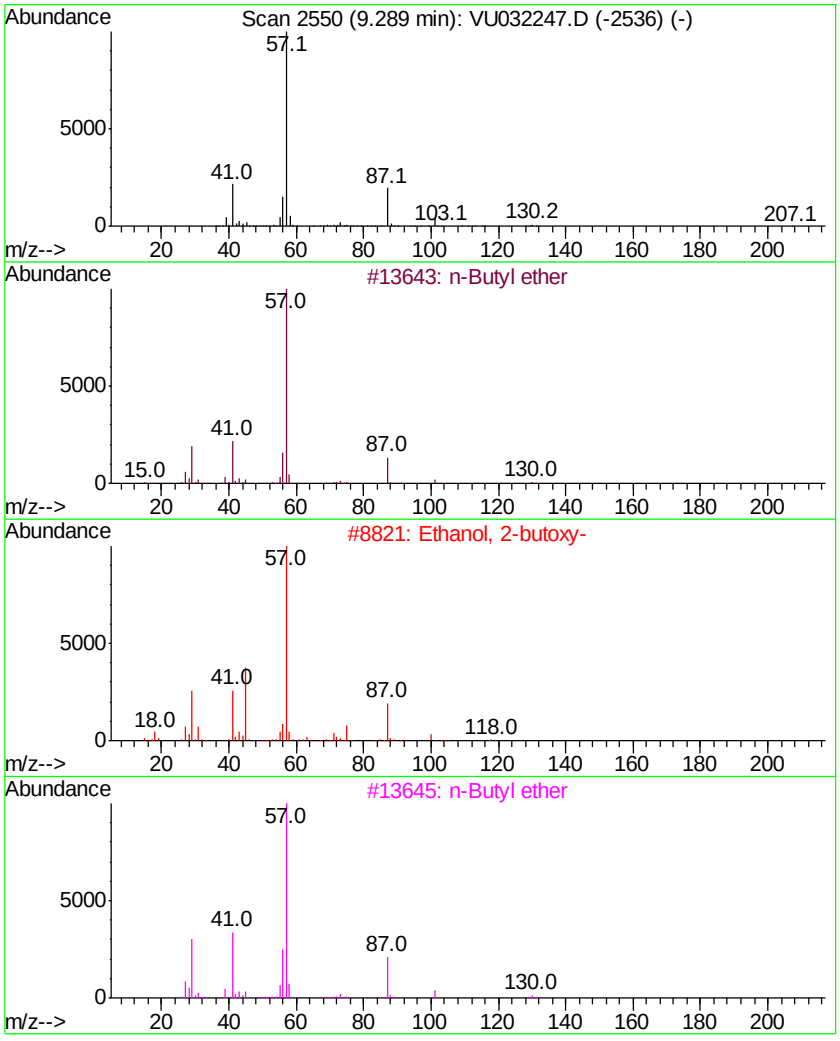
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

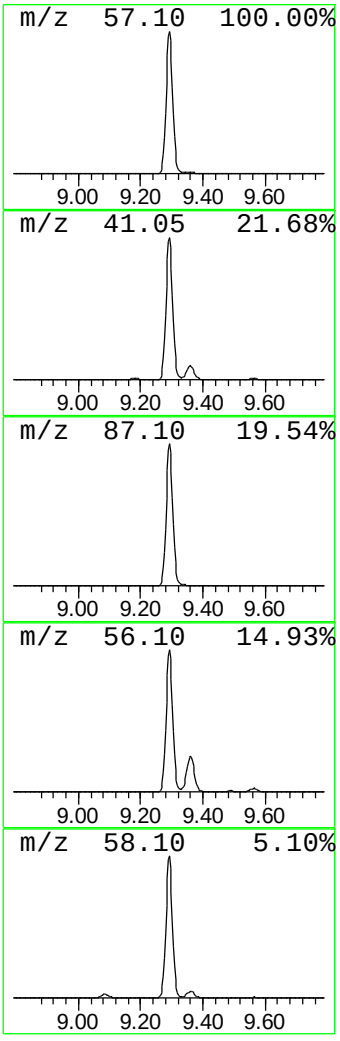
****

Peak Number 11 n-Butyl ether Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.29	57.71 ug/L	12841300	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Butyl ether	130	C8H18O	000142-96-1	72
2	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	56
3	n-Butyl ether	130	C8H18O	000142-96-1	53
4	Sulfurous acid, dibutyl ester	194	C8H18O3S	000626-85-7	47
5	n-Butyl ether	130	C8H18O	000142-96-1	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

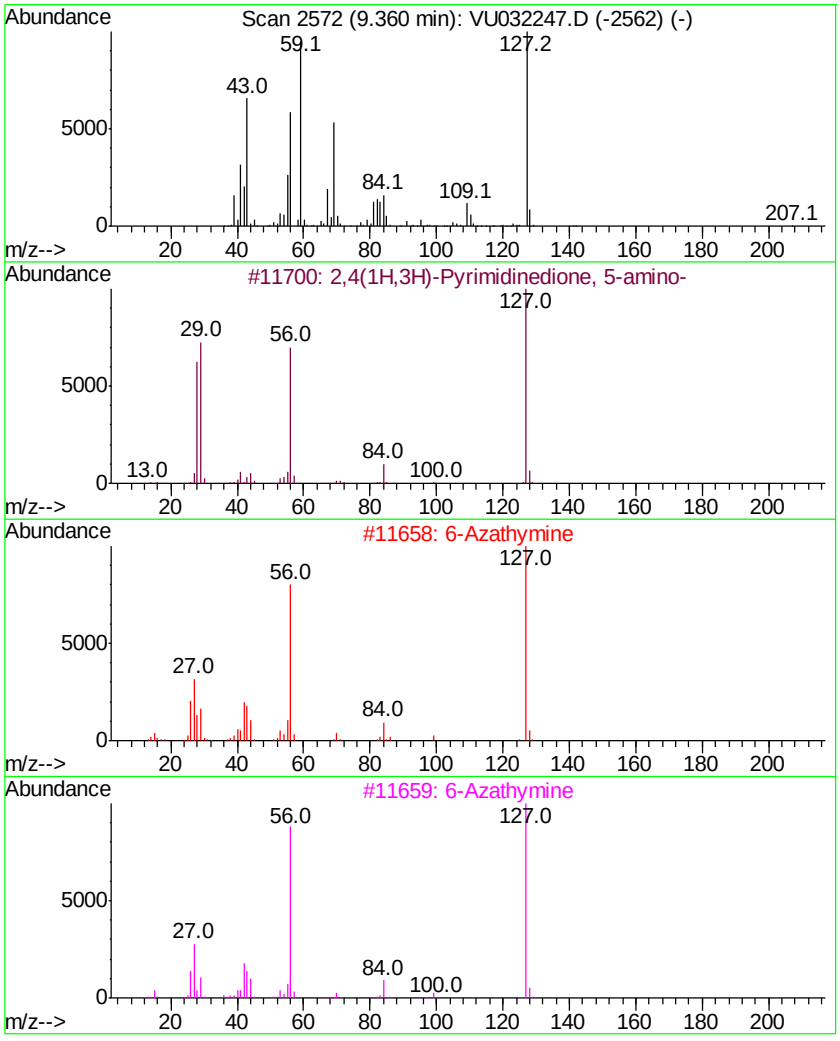
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

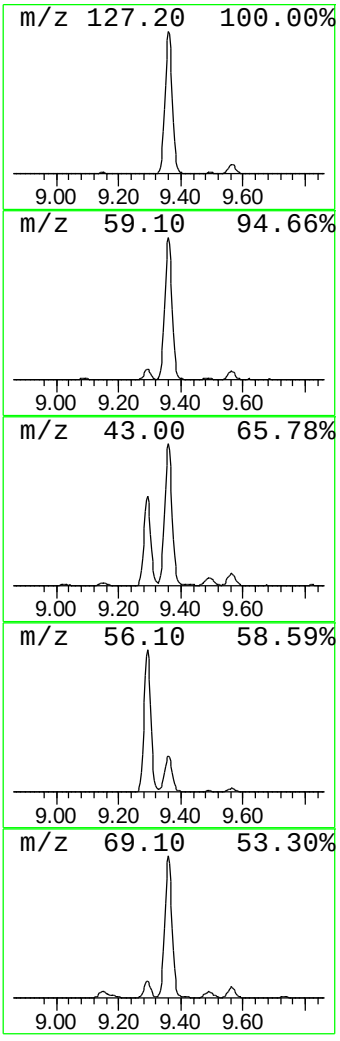
****

Peak Number 12 unknown--01 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	14.24 ug/L	3167530	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4(1H,3H)-Pyrimidinedione, 5-am...	127	C4H5N3O2	000932-52-5	43
2	6-Azathymine	127	C4H5N3O2	000932-53-6	43
3	6-Azathymine	127	C4H5N3O2	000932-53-6	43
4	4-Amino-2,6-dihydroxypyrimidine	127	C4H5N3O2	000873-83-6	38
5	4-Amino-2,6-dihydroxypyrimidine	127	C4H5N3O2	000873-83-6	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

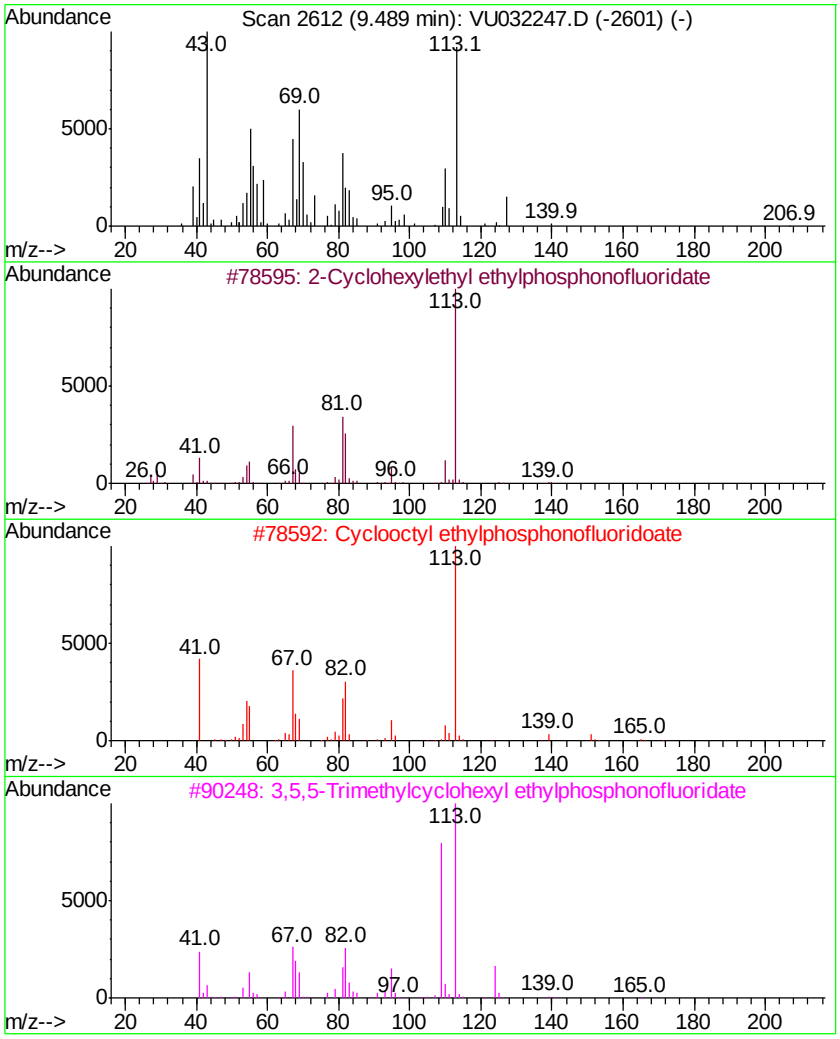
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

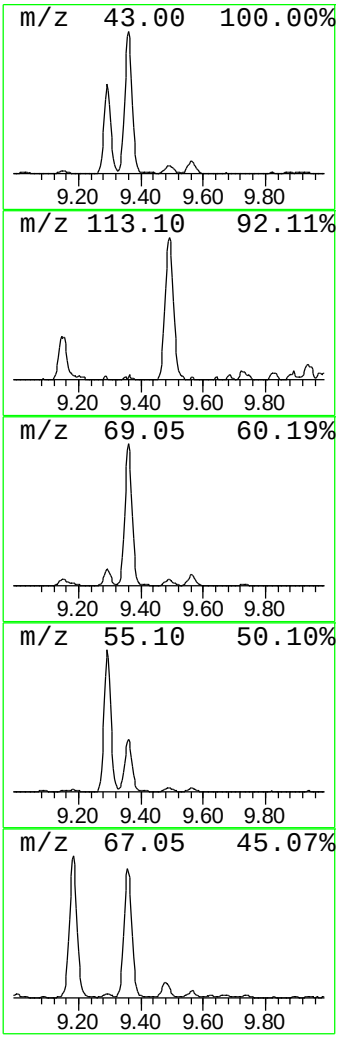
****

Peak Number 13 2-Cyclohexylethyl ethylphos... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	0.79 ug/L	176120	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexylethyl ethylphosphono...	222	C10H20FO2P	1000298-47-5	53
2	Cyclooctyl ethylphosphonofluorid...	222	C10H20FO2P	1000298-32-6	47
3	3,5,5-Trimethylcyclohexyl ethylp...	236	C11H22FO2P	1000298-34-5	43
4	cis-1,4-Bis(aminomethyl)cyclohexane	142	C8H18N2	010029-09-1	40
5	.+/-.-.beta.,.beta.-Dimethyl-.ga...	144	C7H12O3	052398-48-8	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

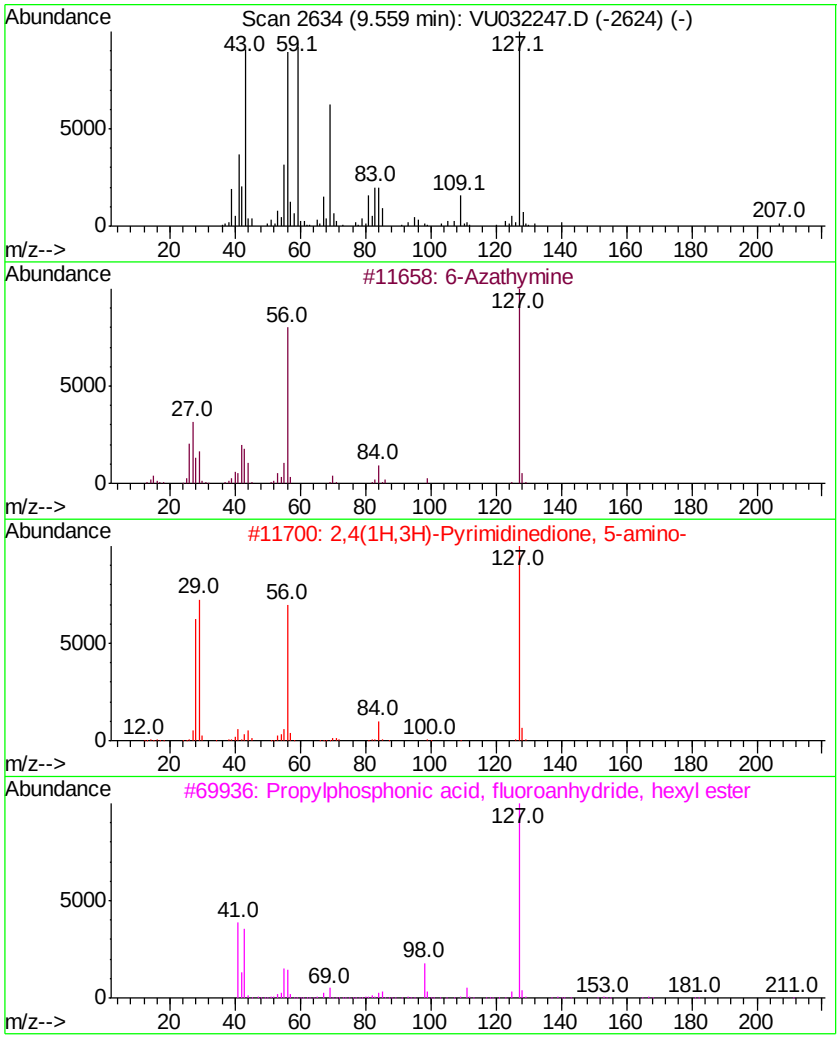
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

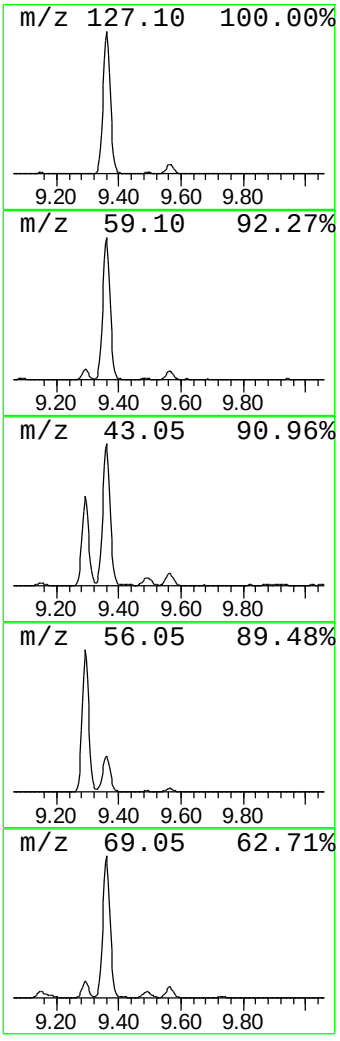
****

Peak Number 14 unknown-02 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.56	1.00 ug/L	223333	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Azathymine	127	C4H5N3O2	000932-53-6	47
2	2,4(1H,3H)-Pyrimidinedione, 5-am...	127	C4H5N3O2	000932-52-5	47
3	Propylphosphonic acid, fluoroanh...	210	C9H20FO2P	333416-18-5	27
4	4-Amino-2,6-dihydroxypyrimidine	127	C4H5N3O2	000873-83-6	22
5	4-Amino-2,6-dihydroxypyrimidine	127	C4H5N3O2	000873-83-6	22





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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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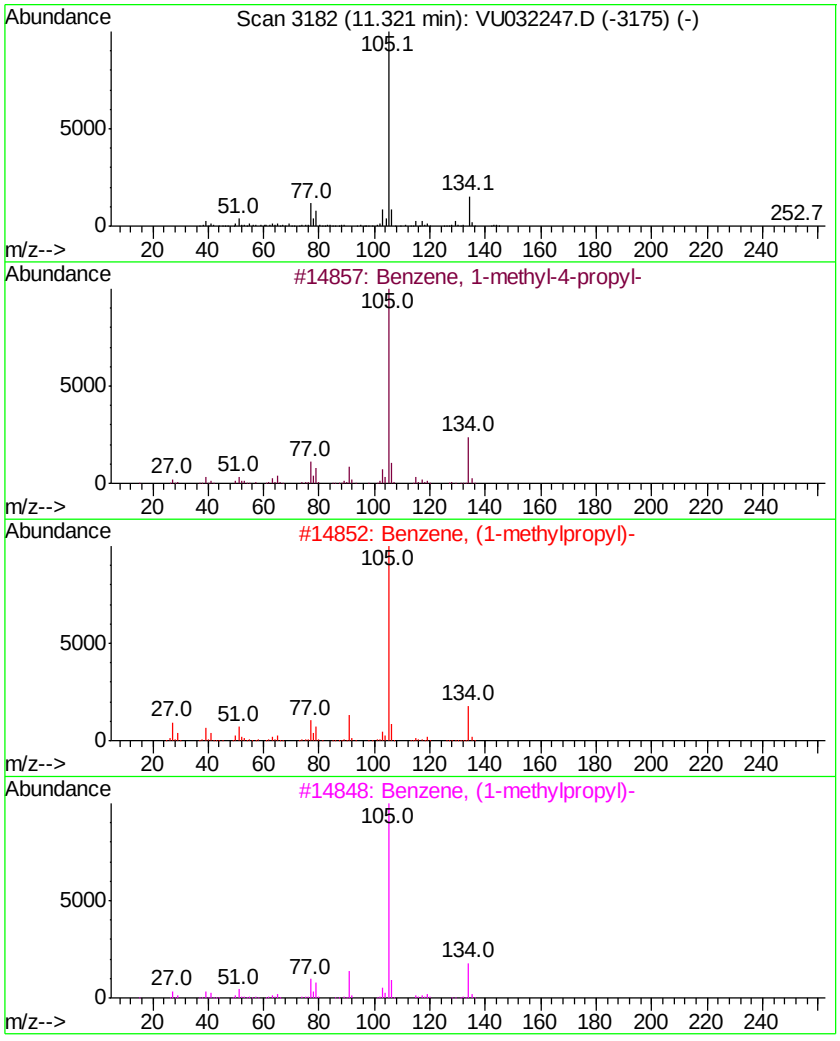
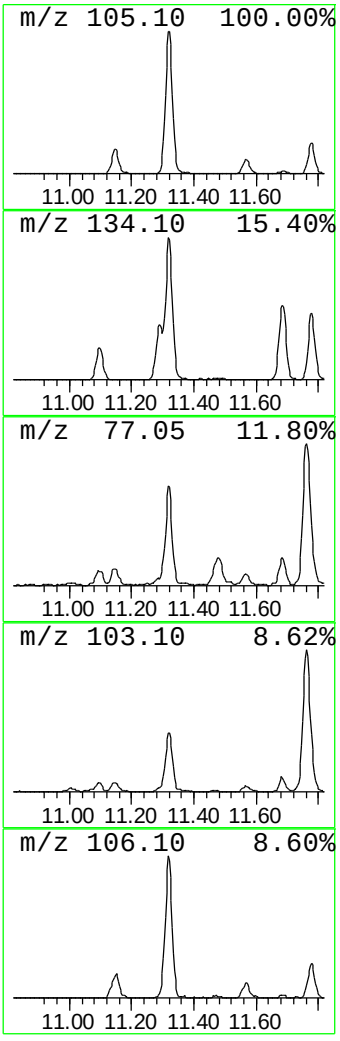
Peak Number 15 Benzene, 1-methyl-4-propyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	1.23 ug/L	633841	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	91
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	87
3	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	87
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	86
5	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	83





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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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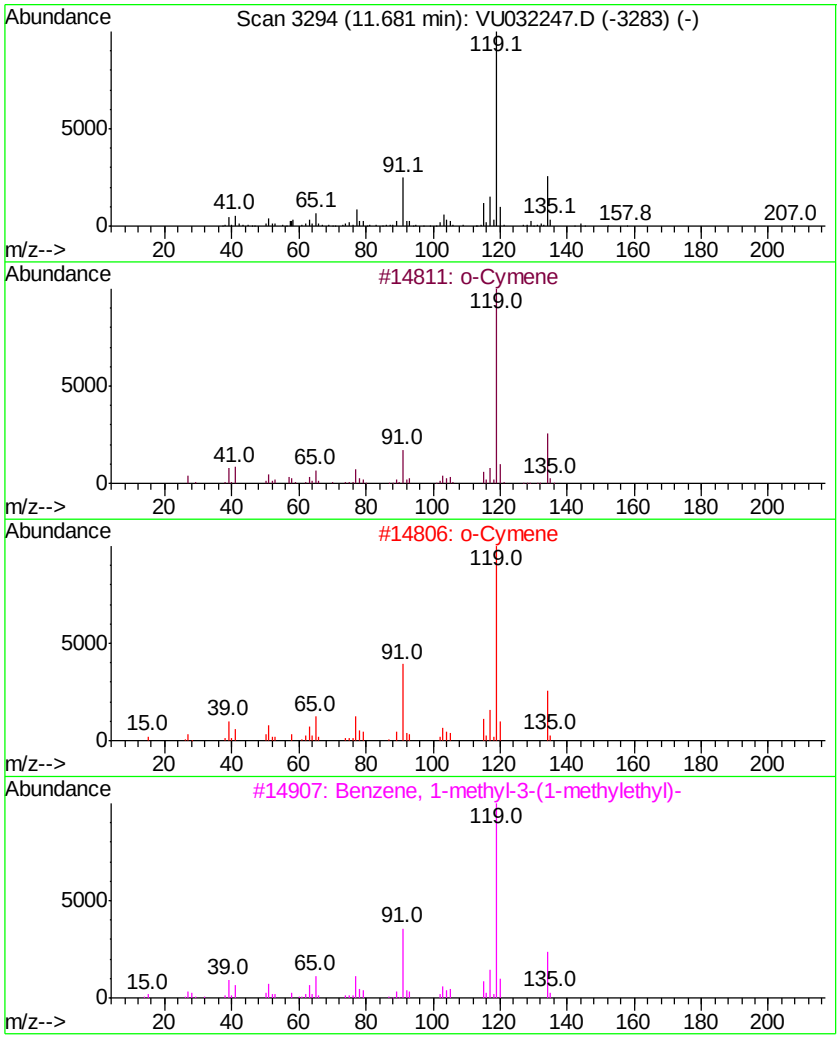
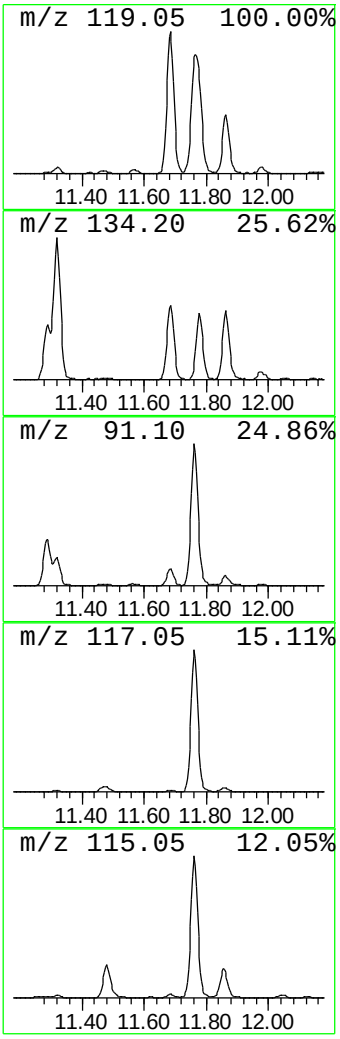
Peak Number 16 o-Cymene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	0.60 ug/L	309303	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	94
2	o-Cymene	134	C10H14	000527-84-4	94
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91
4	p-Cymene	134	C10H14	000099-87-6	91
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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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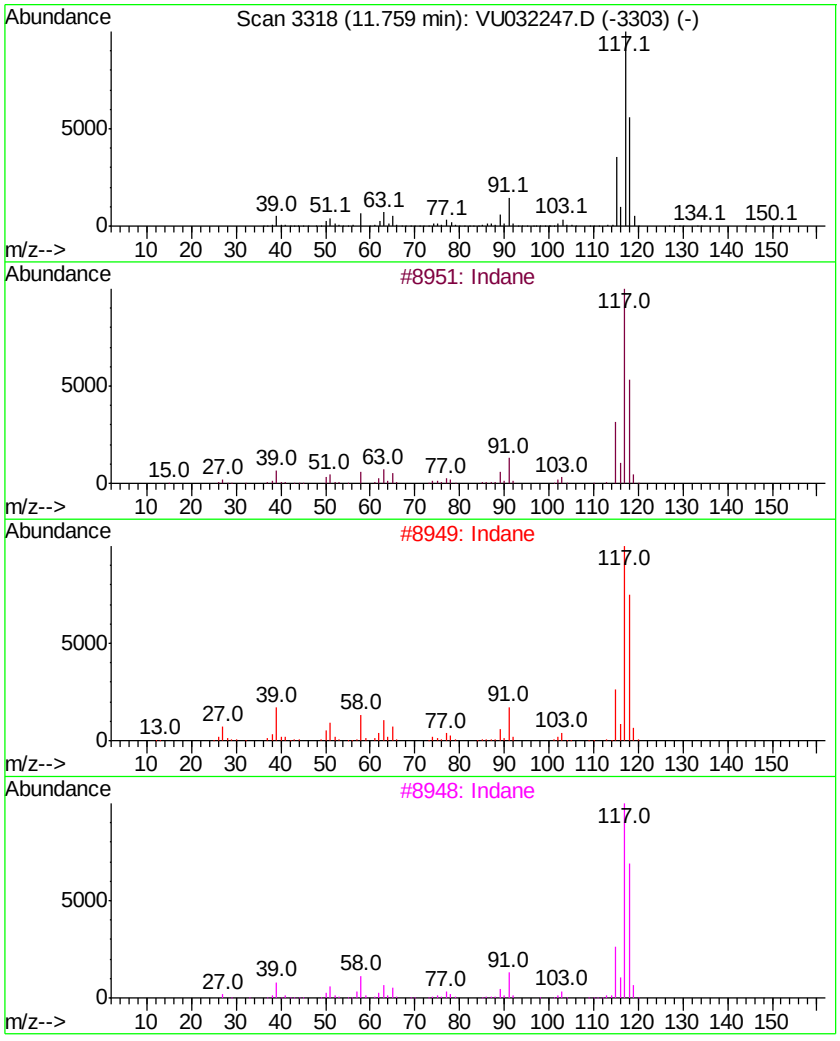
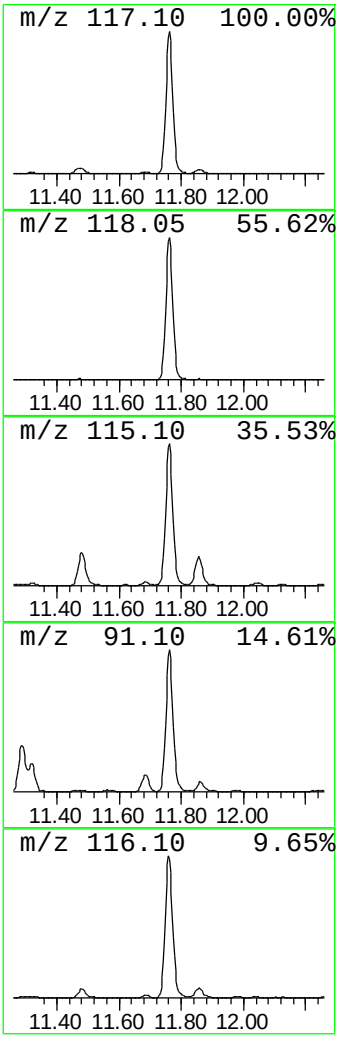
Peak Number 17 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	8.90 ug/L	4596900	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Indane	118	C9H10	000496-11-7	91
3	Indane	118	C9H10	000496-11-7	87
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	83
5	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	74





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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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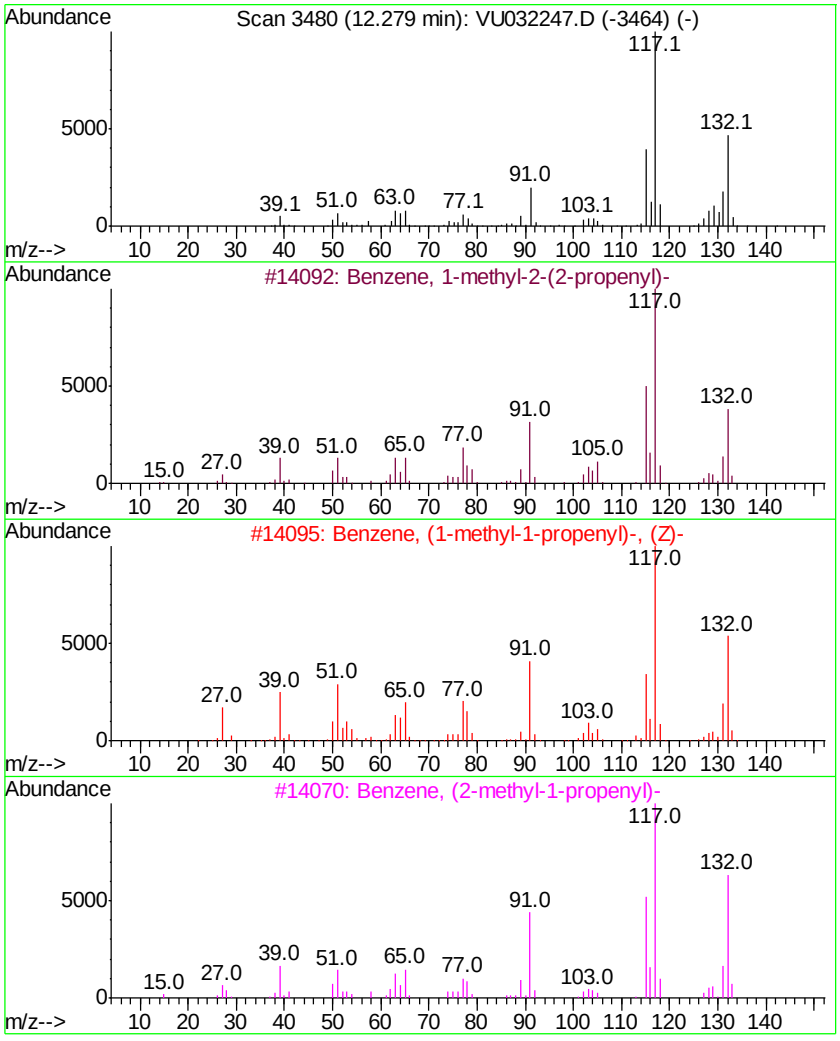
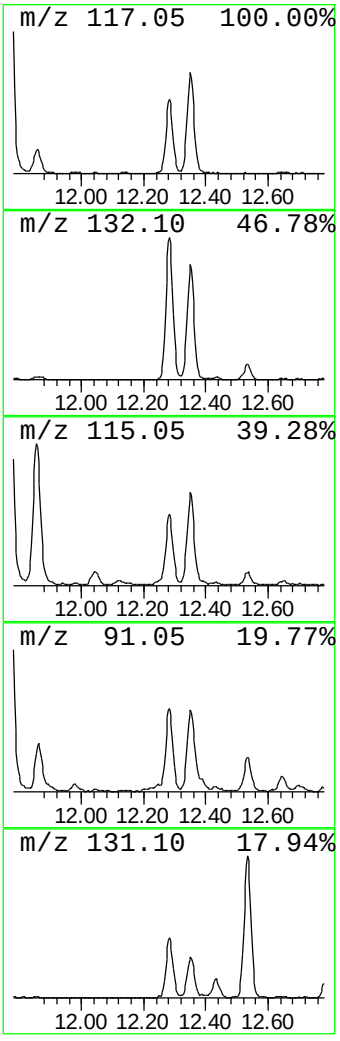
Peak Number 18 Benzene, 1-methyl-2-(2-prop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	1.05 ug/L	541169	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	93
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	90
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	90
5	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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

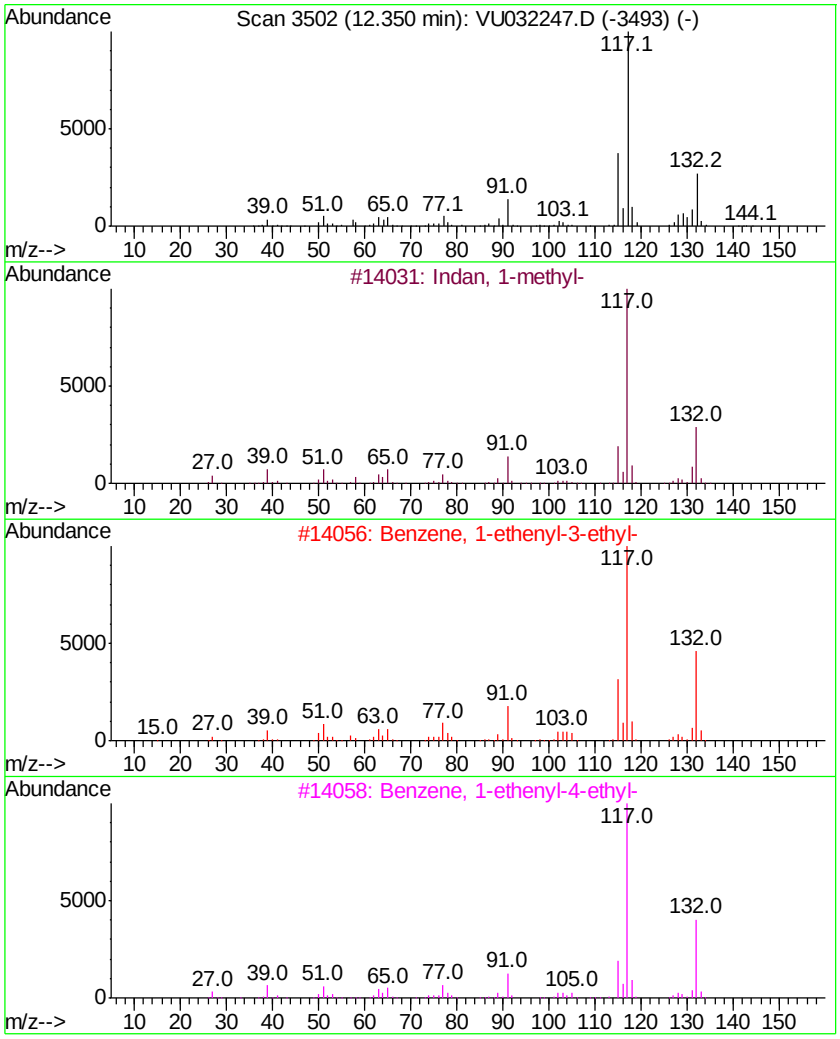
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

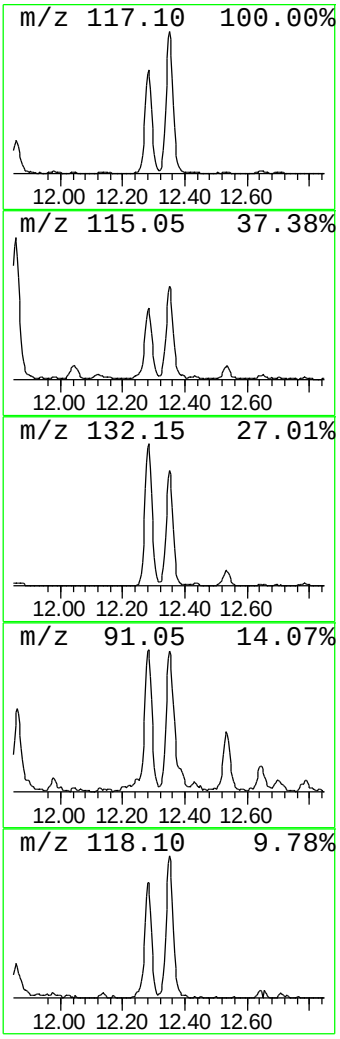
****

Peak Number 19 Indan, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	1.16 ug/L	600355	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	83
4	Indan, 1-methyl-	132	C10H12	000767-58-8	76
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	72





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052219\
Data File : VU032247.D
Acq On : 23 May 2019 02:14
Operator : JC/SP
Sample : K3001-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE9

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
Ethane, 1-chloro-...	1.30	1.4	ug/L	249676	1	5.88	908626	5.0
(DEL) Alkane: Cyc...	5.25	3.8	ug/L	683922	1	5.88	908626	5.0
(DEL) Alkane: Cyc...	5.47	2.0	ug/L	369318	1	5.88	908626	5.0
(DEL) Alkane: Cyc...	5.55	1.6	ug/L	296053	1	5.88	908626	5.0
1-Propanol, 2-(1-...	6.86	2.3	ug/L	425581	1	5.88	908626	5.0
(DEL) Alkane: Cyc...	7.70	0.8	ug/L	189530	2	9.09	1112540	5.0
Butane, 1-(1-meth...	7.95	1.3	ug/L	291842	2	9.09	1112540	5.0
3-Hexanol, 2,3-di...	8.64	6.3	ug/L	1401090	2	9.09	1112540	5.0
Pentalene, octahy...	9.18	1.8	ug/L	406159	2	9.09	1112540	5.0
n-Butyl ether	9.29	57.7	ug/L	12841300	2	9.09	1112540	5.0
unknown--01	9.36	14.2	ug/L	3167530	2	9.09	1112540	5.0
2-Cyclohexylethyl...	9.49	0.8	ug/L	176120	2	9.09	1112540	5.0
unknown-02	9.56	1.0	ug/L	223333	2	9.09	1112540	5.0
Benzene, 1-methyl...	11.32	1.2	ug/L	633841	3	11.48	2582380	5.0
o-Cymene	11.68	0.6	ug/L	309303	3	11.48	2582380	5.0
Indane	11.76	8.9	ug/L	4596900	3	11.48	2582380	5.0
Benzene, 1-methyl...	12.28	1.1	ug/L	541169	3	11.48	2582380	5.0
Indan, 1-methyl-	12.35	1.2	ug/L	600355	3	11.48	2582380	5.0