LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

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\SOMUTR060419WMA.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	1.180	20	28	42	rBV	2035265	1941892	100.00%	20.118%
2	1.299	58	65	81	rVB	100429	94483	4.87%	0.979%
3	1.383	83	91	107	rBV2	1020281	1346314	69.33%	13.948%
4	1.450	107	112	114	rVV	31382	29941	1.54%	0.310%
5	1.470	114	118	125	rVV	59189	60866	3.13%	0.631%
6	1.515	125	132	141	rVV	155540	159433	8.21%	1.652%
7	1.672	173	181	198	rVB3	90497	118985	6.13%	1.233%
8	1.752	198	206	219	rVB	91634	117260	6.04%	1.215%
9	1.897	242	251	259	rBV	272872	353617	18.21%	3.663%
10	1.952	259	268	289	rVV3	205898	381785	19.66%	3.955%
11	2.045	289	297	308	rVB	28028	38823	2.00%	0.402%
12	2.132	311	324	333	rBV	97546	150828	7.77%	1.563%
13	2.180	333	339	349	rVV	24433	35486	1.83%	0.368%
14	2.267	352	366	375	rVV2	74186	124494	6.41%	1.290%
15	2.322	375	383	396	rVB2	29362	48776	2.51%	0.505%
16	2.531	439	448	459	rVB3	13082	21464	1.11%	0.222%
17	2.640	468	482	503	rBV8	31960	107487	5.54%	1.114%
18	2.733	504	511	518	rBV2	12900	19707	1.01%	0.204%
19	2.981	575	588	604	rVB2	22742	48968	2.52%	0.507%
20	3.183	637	651	669	rVB3	102273	238350	12.27%	2.469%
21	3.286	671	683	699	rVB	28116	62576	3.22%	0.648%
22	3.405	702	720	730	rBV4	18611	41818	2.15%	0.433%
23	3.476	730	742	753	rBV4	11651	24607	1.27%	0.255%
24	3.736	807	823	845	rBV4	25940	67742	3.49%	0.702%
25	3.990	888	902	918	rBV4	10643	27675	1.43%	0.287%
26	4.186	947	963	1008	rBV2	63948	238104	12.26%	2.467%
27	4.383	1010	1024	1068	rVB	321860	757726	39.02%	7.850%
28	4.640	1090	1104	1128	rVB	61452	161925	8.34%	1.678%
29	5.051	1218	1232	1257	rVB5	11436	38023	1.96%	0.394%
30	5.206	1267	1280	1296	rBV4	9848	21787	1.12%	0.226%
31	5.331	1296	1319	1333	rBV2	115037	334384	17.22%	3.464%
32	5.595	1389	1401	1411	rBV3	15451	32702	1.68%	0.339%
33	5.659	1411	1421	1441	rVB6	24900	64809	3.34%	0.671%
34	5.775	1446	1457	1467	rBV4	11489	23968	1.23%	0.248%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

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\SOMUTR060419WMA.M
Title : TRACE VOA SOM01.0

35	5.881	1477	1490	1501	rBV	115846	223910	11.53%	2.320%
36	5.929	1502	1505	1518	rVB6	12774	22918	1.18%	0.237%
37	6.206	1574	1591	1604	rVB8	12105	29503	1.52%	0.306%
38	6.325	1613	1628	1646	rBV2	77654	158511	8.16%	1.642%
39	6.530	1678	1692	1703	rBV2	11758	23192	1.19%	0.240%
40	7.222	1897	1907	1922	rBV2	41836	77522	3.99%	0.803%
41	7.559	1994	2012	2026	rBV	152618	265768	13.69%	2.753%
42	7.633	2026	2035	2047	rVV2	19217	36273	1.87%	0.376%
43	7.846	2092	2101	2111	rBV3	24170	37668	1.94%	0.390%
44	8.309	2234	2245	2272	rBV	223282	402764	20.74%	4.173%
45	8.463	2283	2293	2309	rBV2	15422	26464	1.36%	0.274%
46	9.083	2474	2486	2506	rBV	168237	286512	14.75%	2.968%
47	10.025	2769	2779	2796	rBV4	12382	21245	1.09%	0.220%
48	10.427	2893	2904	2918	rBV	67223	108191	5.57%	1.121%
49	11.479	3218	3231	3250	rBV	185401	303958	15.65%	3.149%
50	11.752	3304	3316	3330	rBV5	8338	21074	1.09%	0.218%
51	11.855	3337	3348	3369	rVB	161494	270397	13.92%	2.801%

Sum of corrected areas: 9652675

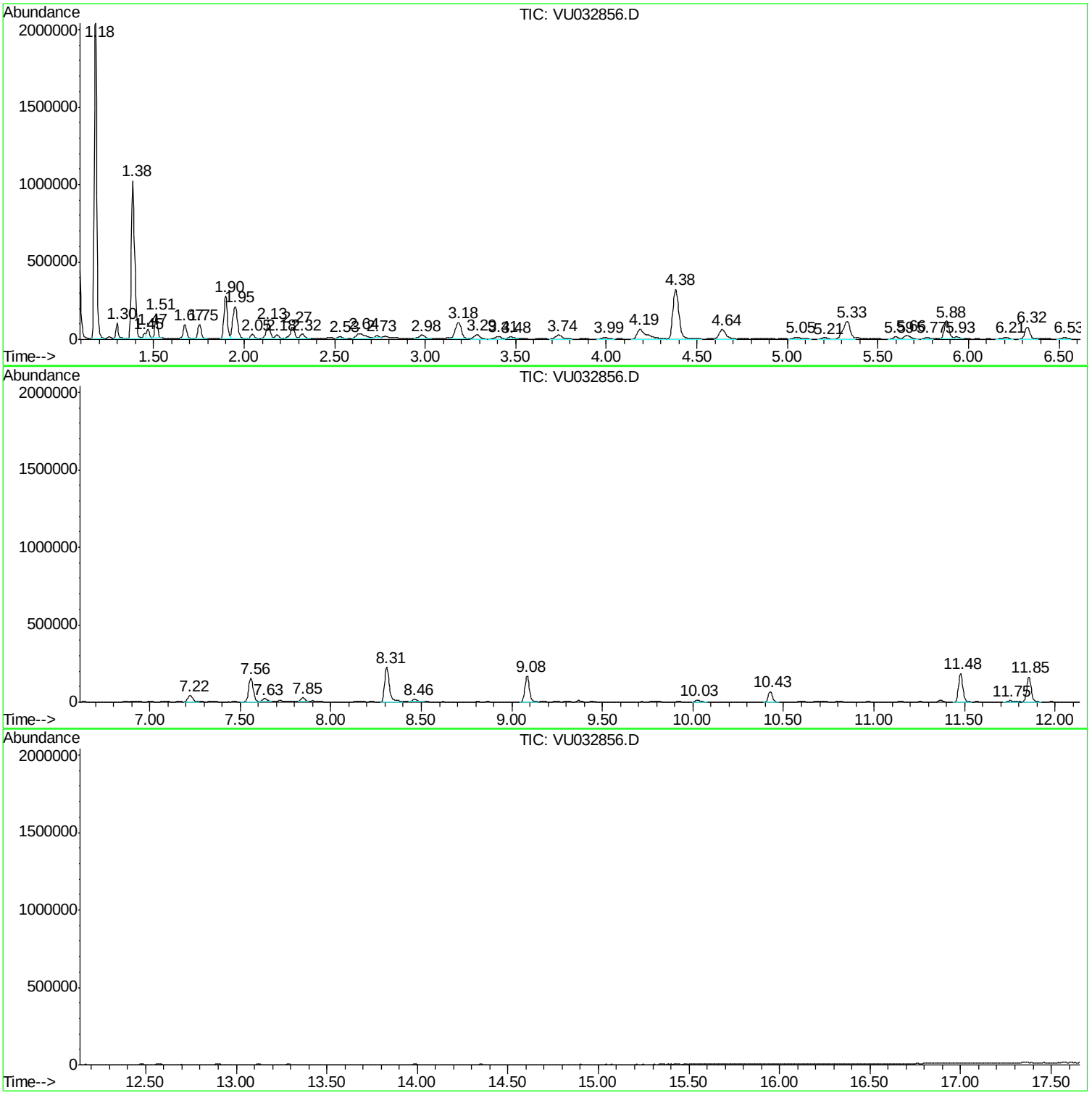
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

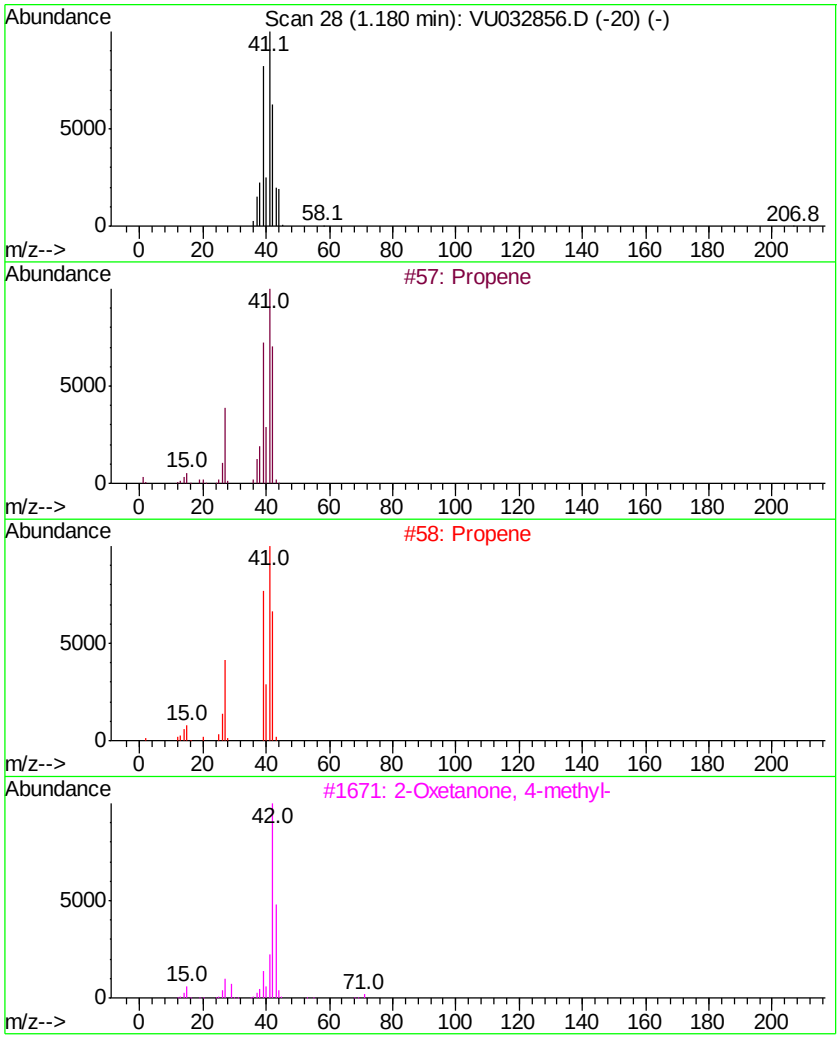
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

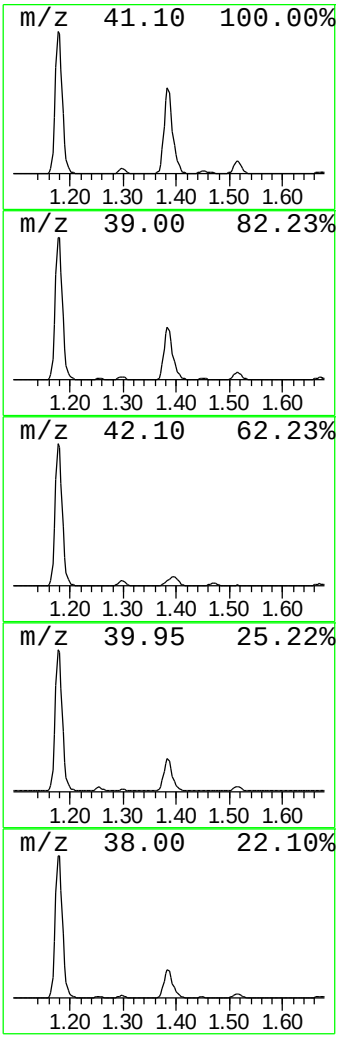
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.18	43.36 ug/L	1941890	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Propene	42	C3H6	000115-07-1	45
3	2-Oxetanone, 4-methyl-	86	C4H6O2	003068-88-0	9
4	Cyclopropane	42	C3H6	000075-19-4	9
5	Cyclopropene	40	C3H4	002781-85-3	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

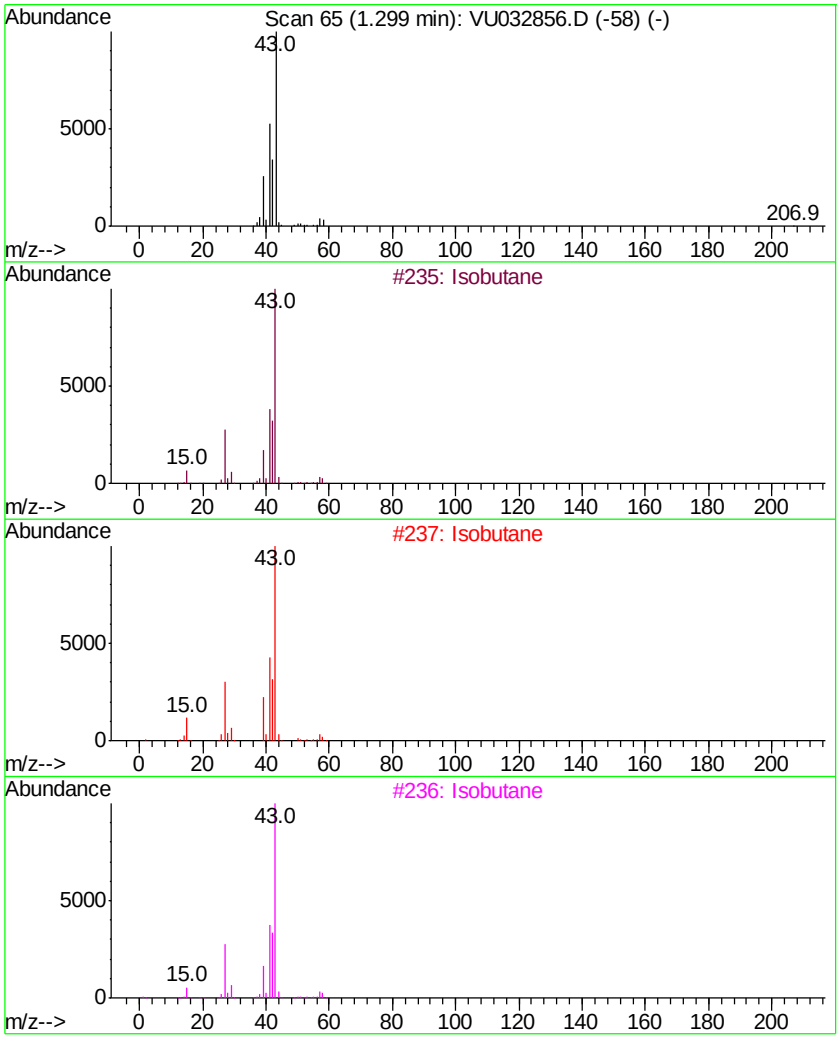
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

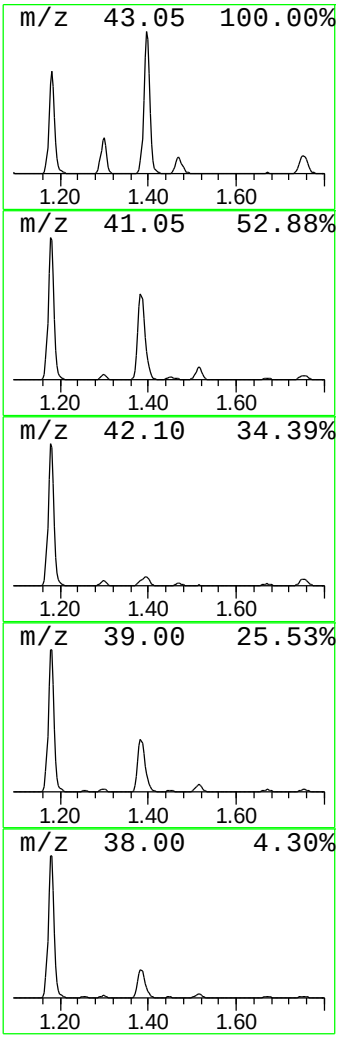
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.30	2.11 ug/L	94483	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	64
2	Isobutane	58	C4H10	000075-28-5	64
3	Isobutane	58	C4H10	000075-28-5	50
4	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9
5	Isobutane	58	C4H10	000075-28-5	9





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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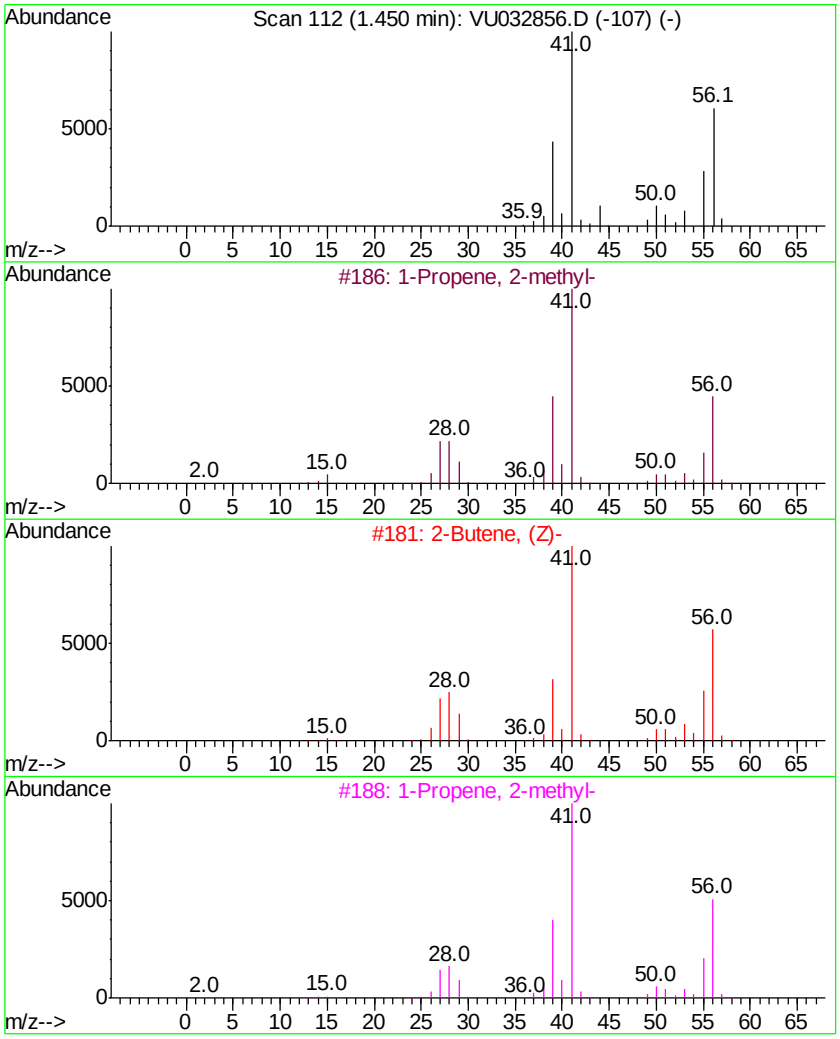
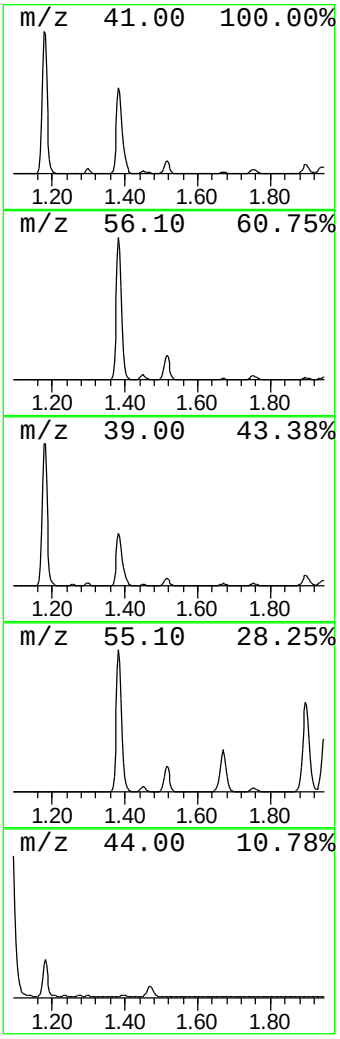
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.45	0.67 ug/L	29941	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	72
2	2-Butene, (Z)-	56	C4H8	000590-18-1	72
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	72
4	2-Butene, (Z)-	56	C4H8	000590-18-1	64
5	2-Butene, (E)-	56	C4H8	000624-64-6	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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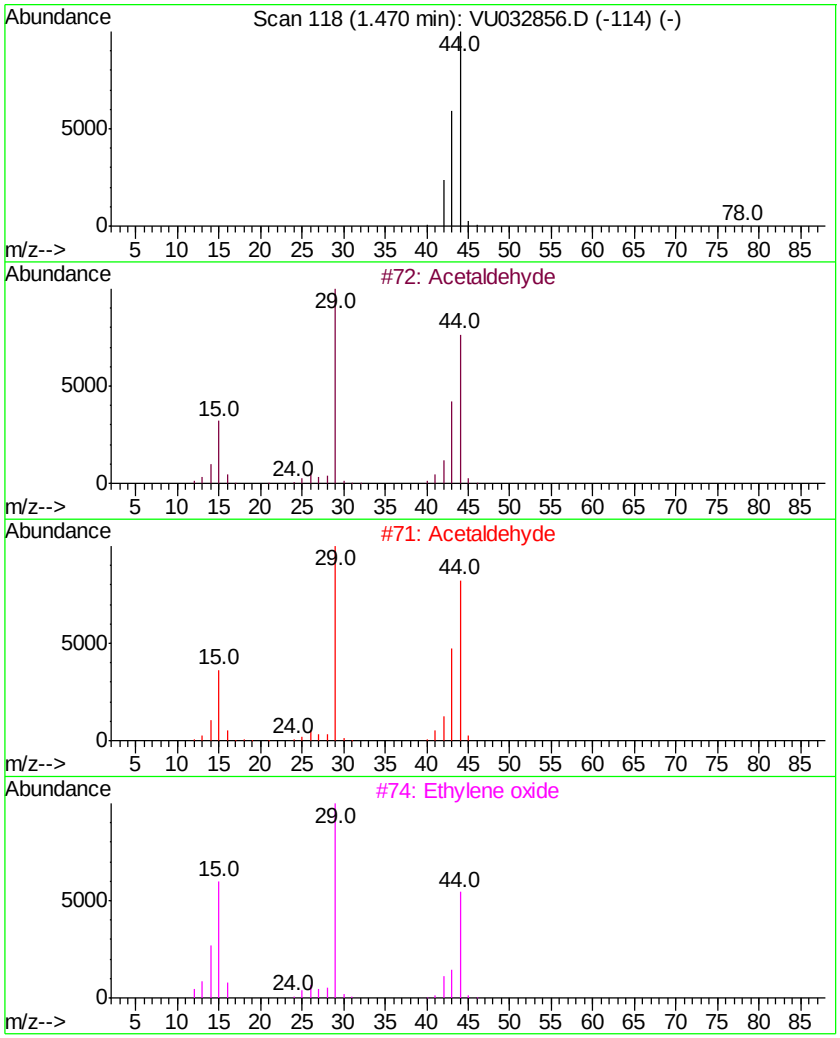
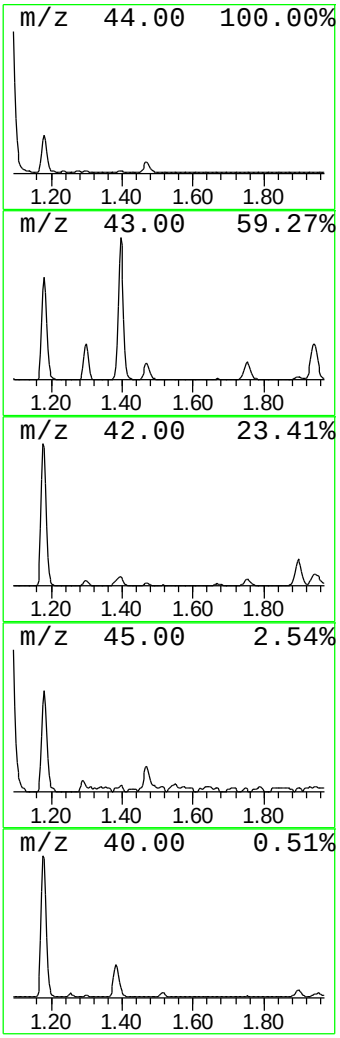
Peak Number 4 unknown-01 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	1.36 ug/L	60866	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	7
2	Acetaldehyde	44	C2H4O	000075-07-0	5
3	Ethylene oxide	44	C2H4O	000075-21-8	5
4	Carbon dioxide	44	CO2	000124-38-9	4
5	Ethylene oxide	44	C2H4O	000075-21-8	4





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

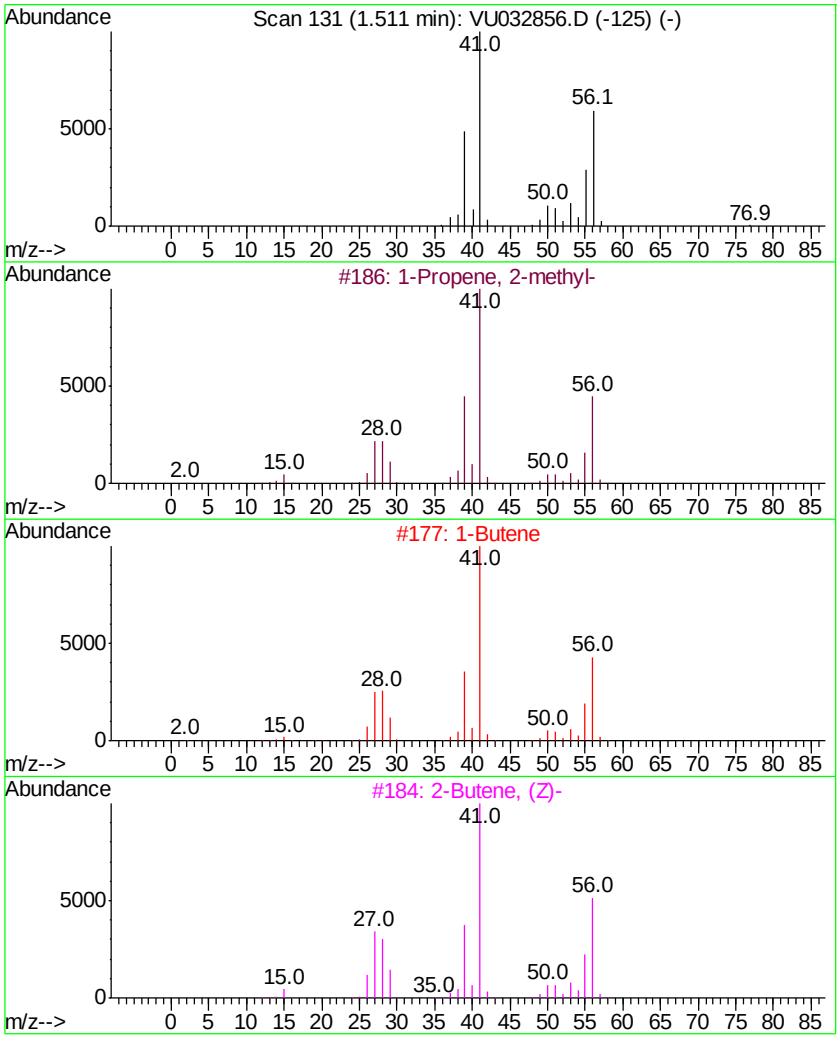
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

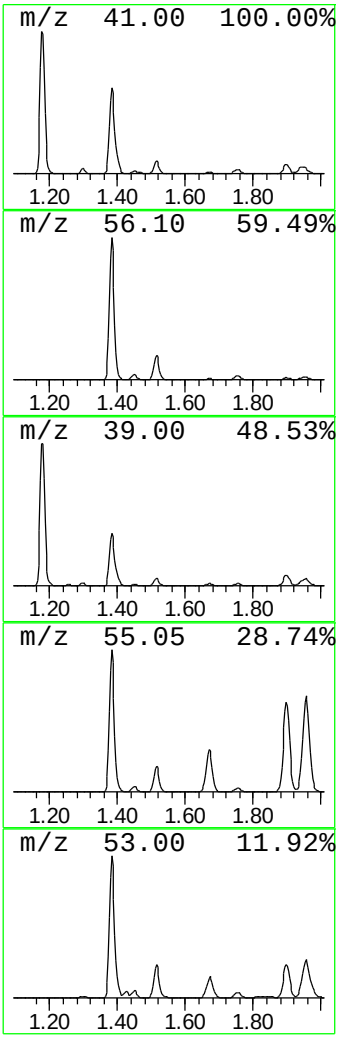
****

Peak Number 5 (DEL) Alkane: Cyclic1.51 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.51	3.56 ug/L	159433	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	87
2	1-Butene	56	C4H8	000106-98-9	86
3	2-Butene, (Z)-	56	C4H8	000590-18-1	74
4	2-Butene, (E)-	56	C4H8	000624-64-6	72
5	2-Butene	56	C4H8	000107-01-7	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

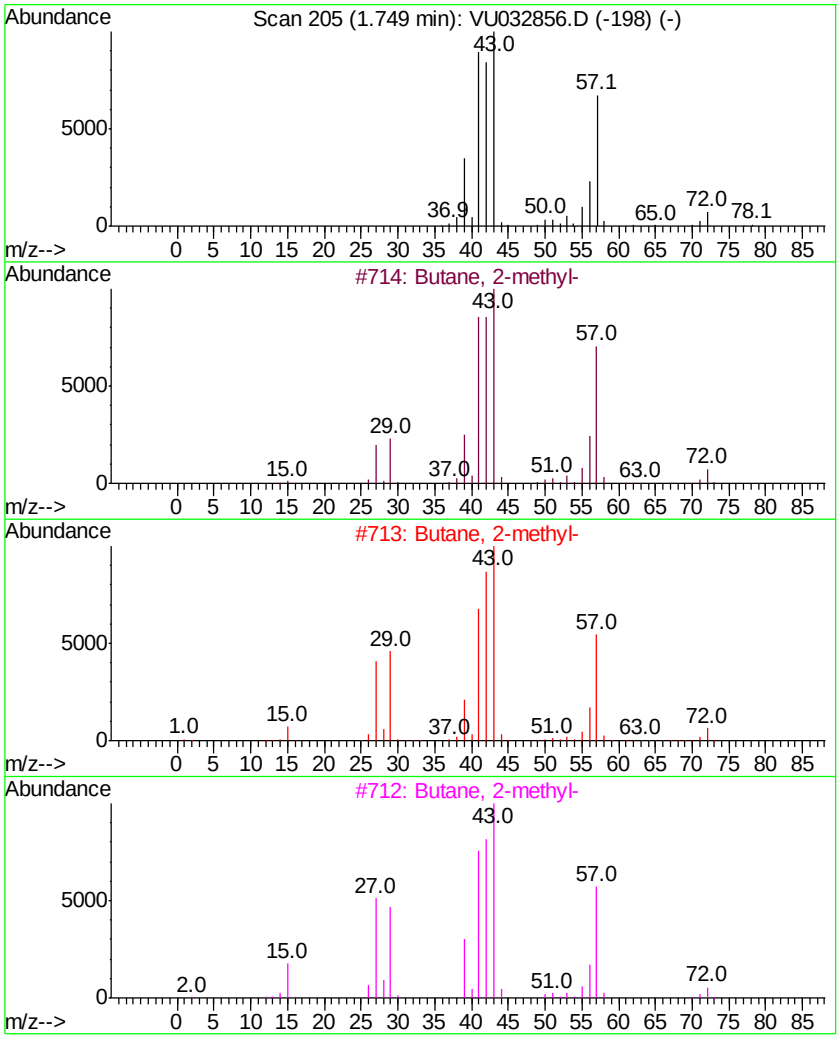
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

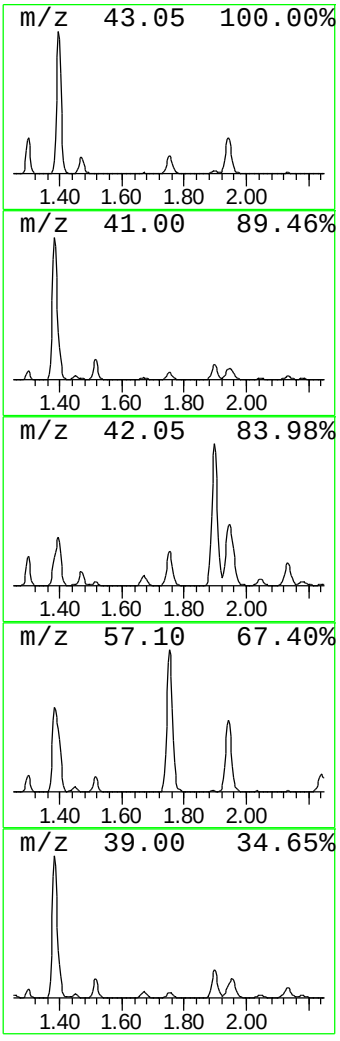
****

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	2.62 ug/L	117260	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	86
4	3-Buten-1-ol	72	C4H8O	000627-27-0	47
5	Pentane	72	C5H12	000109-66-0	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

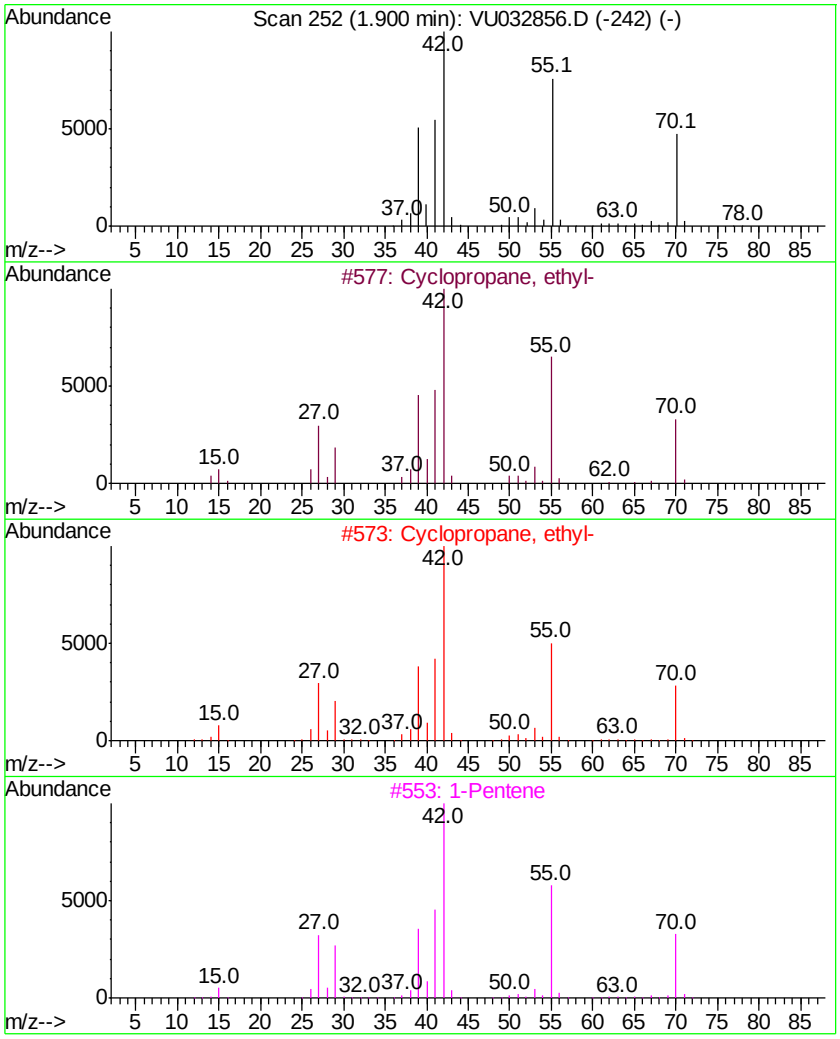
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

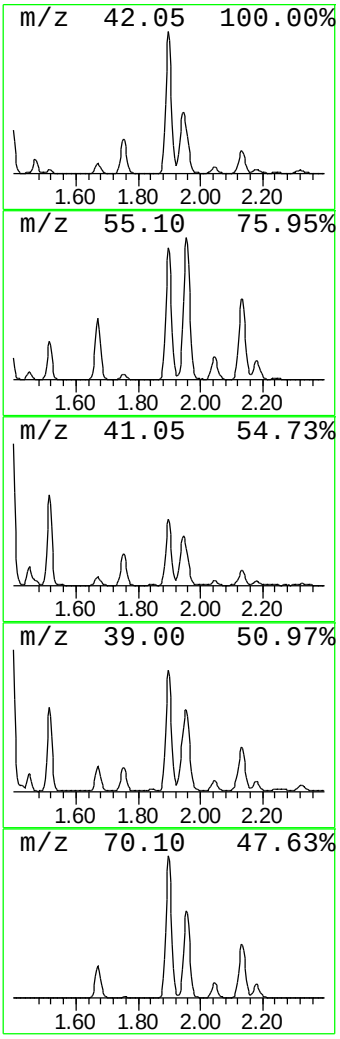
****

Peak Number 7 (DEL) Alkane: Cyclic1.90 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.90	7.90 ug/L	353617	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, ethyl-	70	C5H10	001191-96-4	87
2	Cyclopropane, ethyl-	70	C5H10	001191-96-4	76
3	1-Pentene	70	C5H10	000109-67-1	68
4	1-Pentene	70	C5H10	000109-67-1	64
5	Cyclobutane, methyl-	70	C5H10	000598-61-8	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

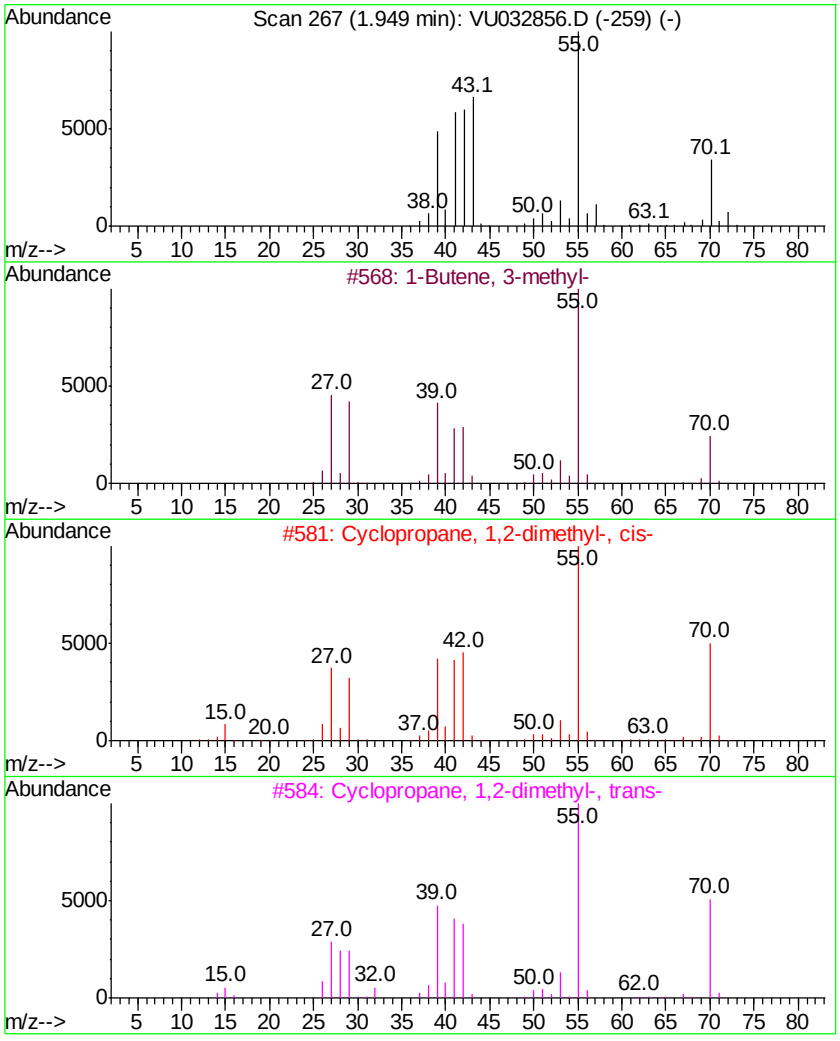
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

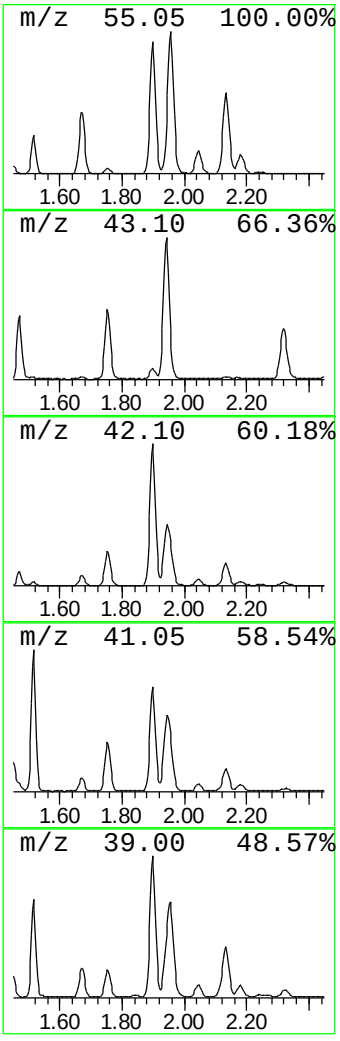
****

Peak Number 8 (DEL) Alkane: Cyclic1.95 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.95	8.53 ug/L	381785	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butene, 3-methyl-	70	C5H10	000563-45-1	90
2	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	87
3	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	87
4	2-Methyl-1-butene	70	C5H10	000563-46-2	86
5	2-Butene, 2-methyl-	70	C5H10	000513-35-9	86





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

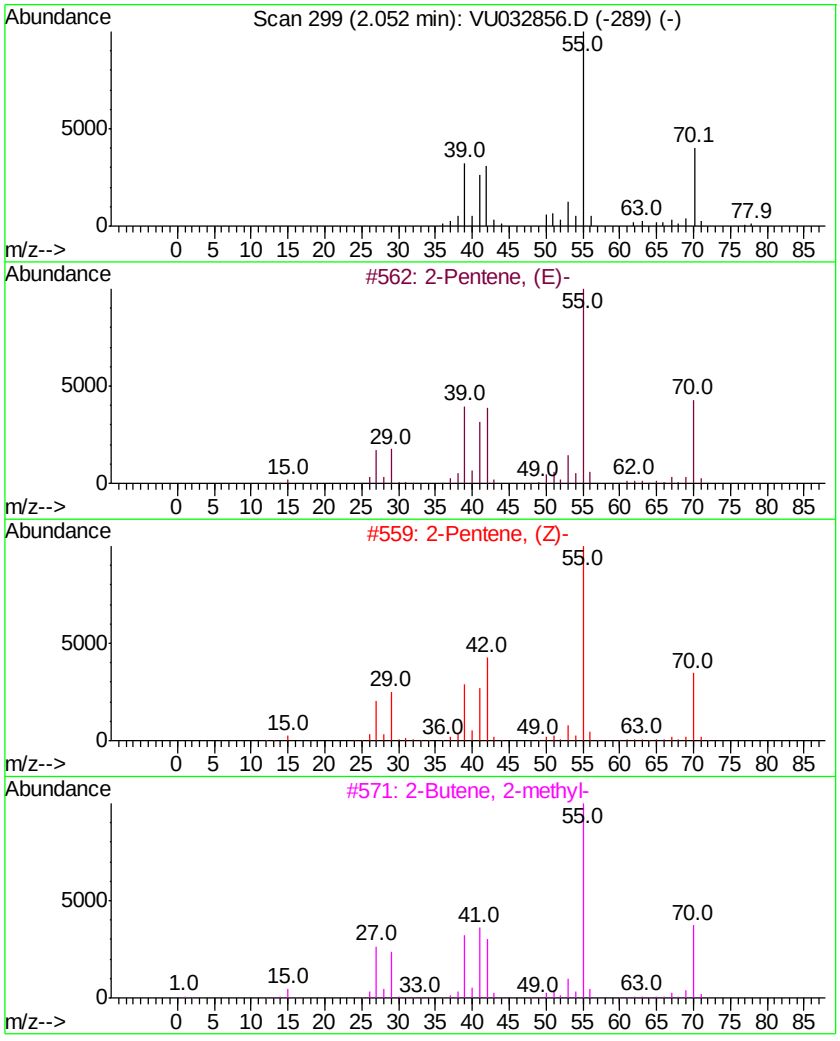
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

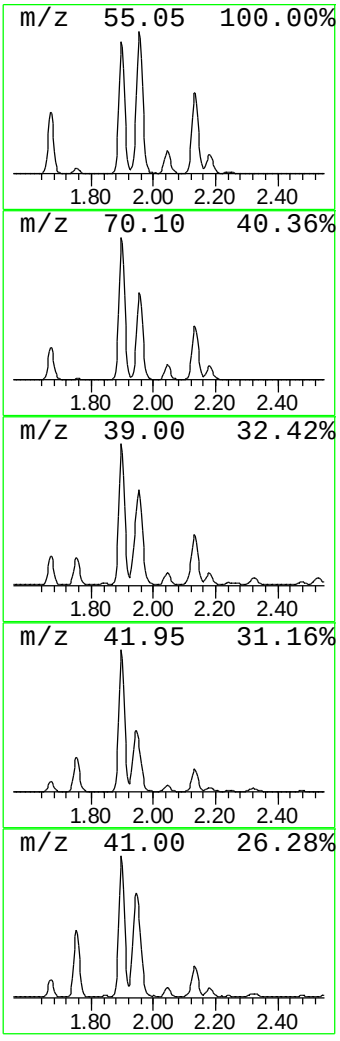
****

Peak Number 9 (DEL) Alkane: Cyclic2.05 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.05	0.87 ug/L	38823	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, (E)-	70	C5H10	000646-04-8	90
2	2-Pentene, (Z)-	70	C5H10	000627-20-3	90
3	2-Butene, 2-methyl-	70	C5H10	000513-35-9	90
4	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	90
5	2-Methyl-1-butene	70	C5H10	000563-46-2	86





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

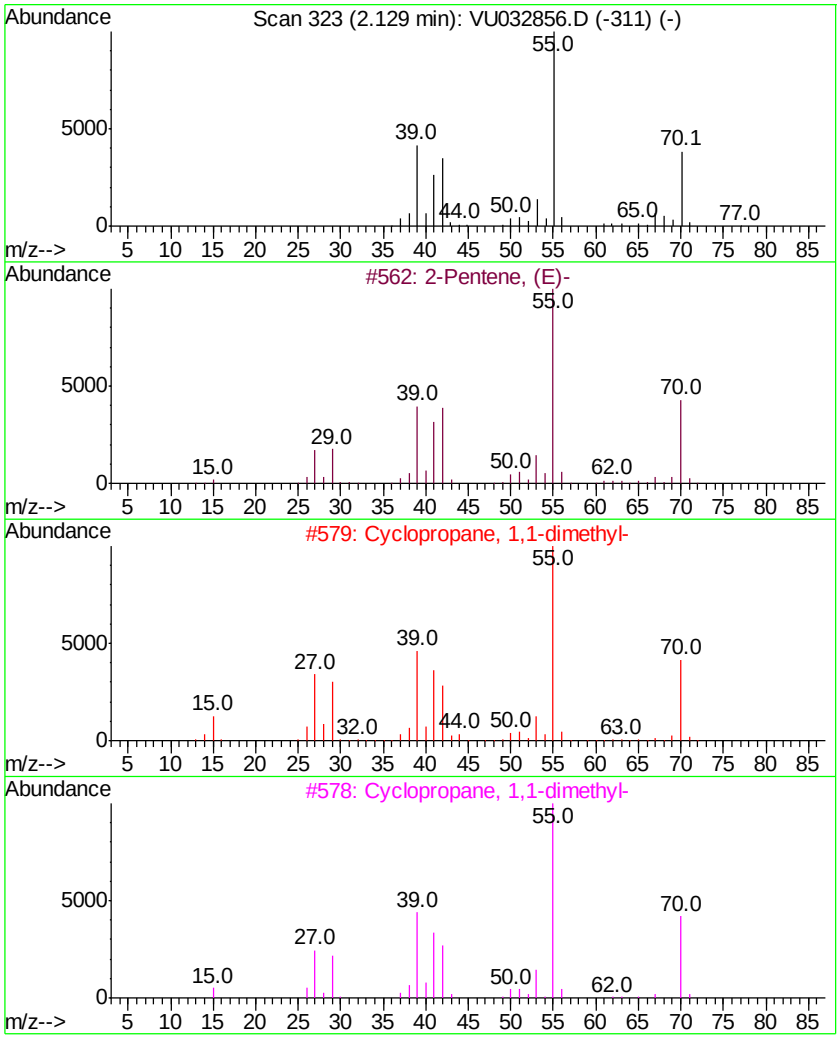
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

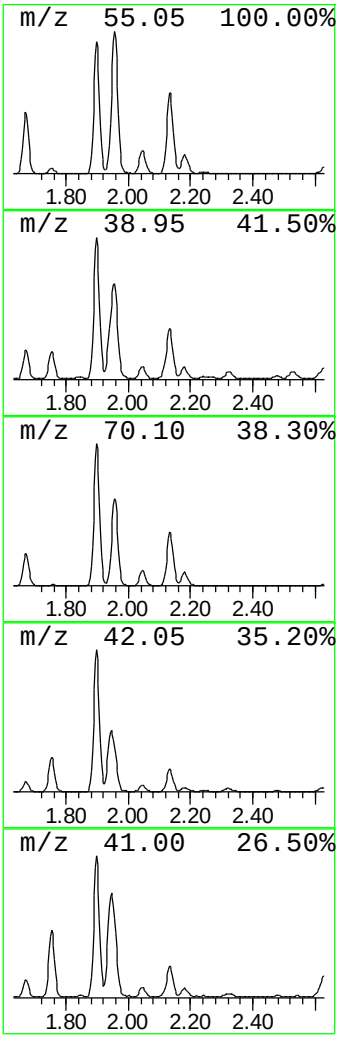
****

Peak Number 10 (DEL) Alkane: Cyclic2.13 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	3.37 ug/L	150828	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, (E)-	70	C5H10	000646-04-8	94
2	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	90
3	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	90
4	2-Methyl-1-butene	70	C5H10	000563-46-2	86
5	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

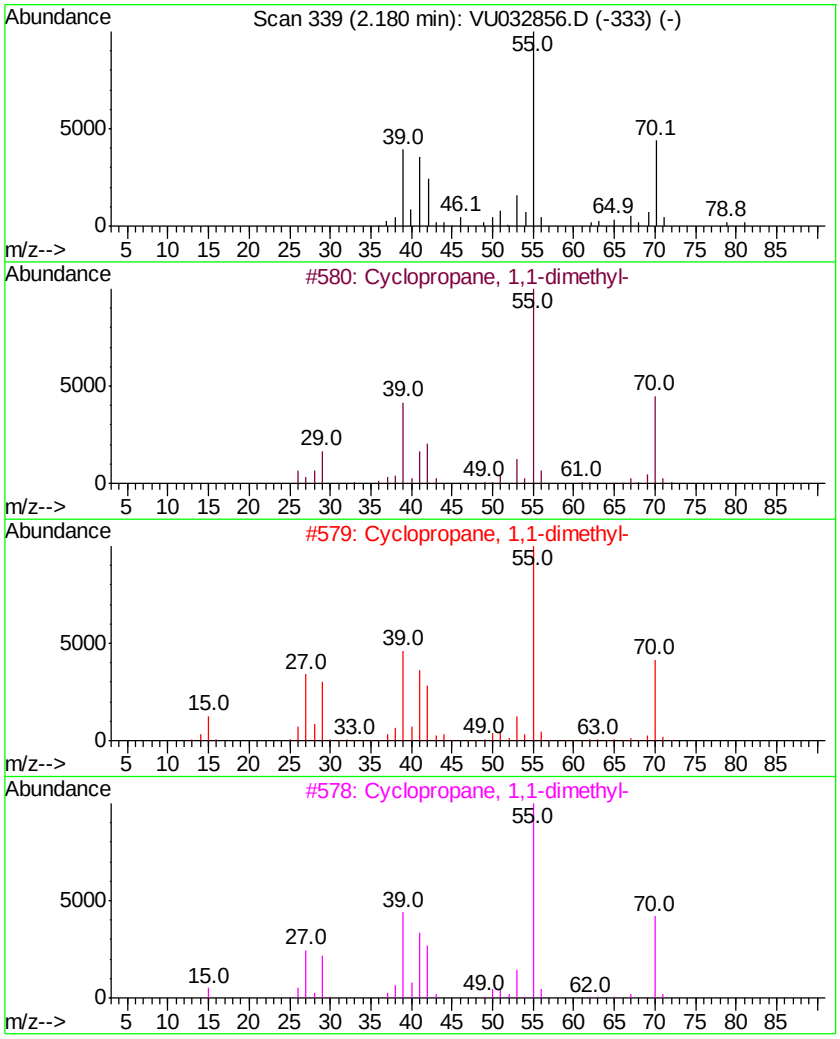
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

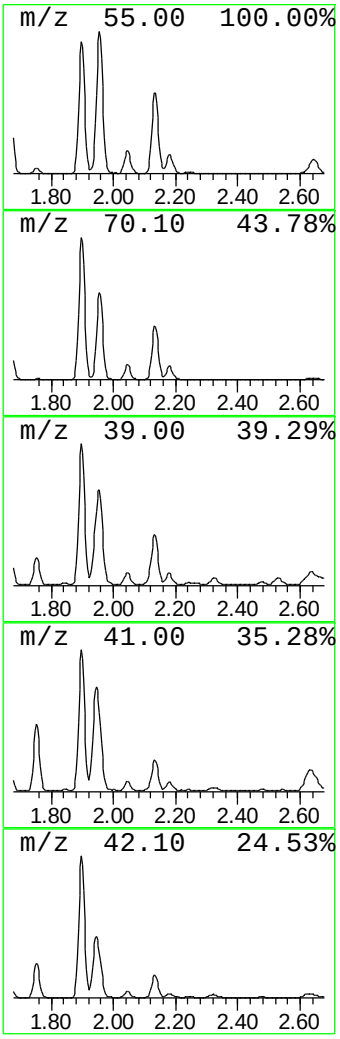
****

Peak Number 11 (DEL) Alkane: Cyclic2.18 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	0.79 ug/L	35486	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	86
2	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	80
3	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	72
4	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	72
5	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

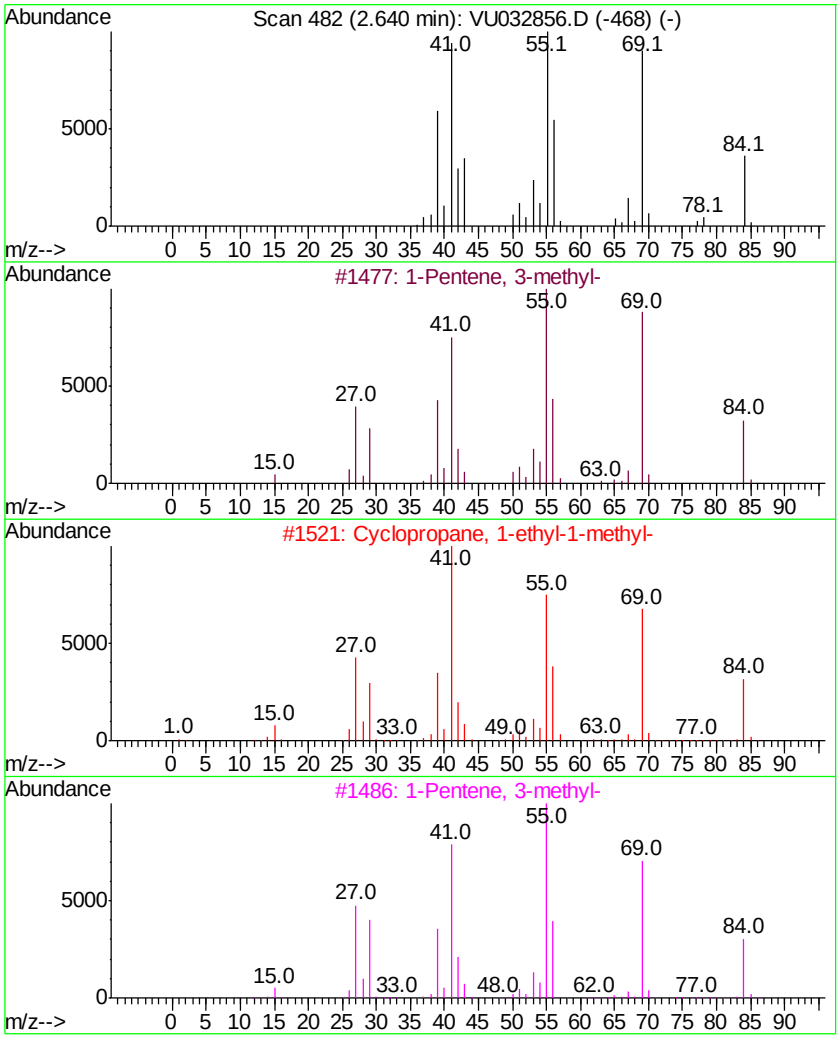
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

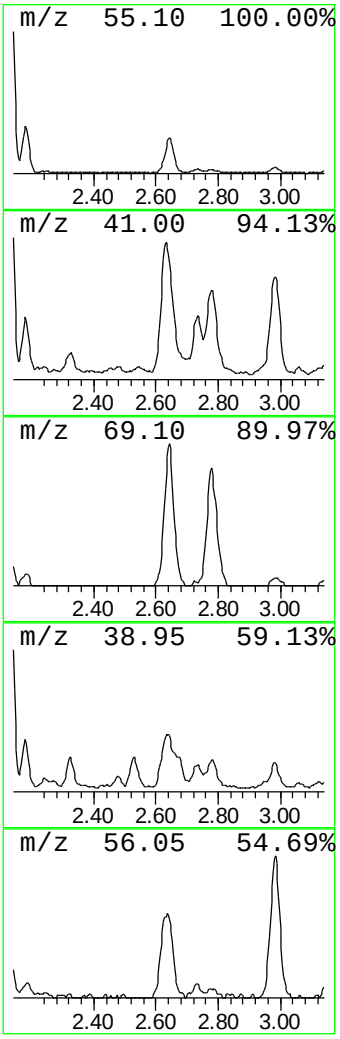
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.64	2.40 ug/L	107487	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 3-methyl-	84	C6H12	000760-20-3	94
2	Cyclopropane, 1-ethyl-1-methyl-	84	C6H12	053778-43-1	76
3	1-Pentene, 3-methyl-	84	C6H12	000760-20-3	68
4	Pentane, 3-methylene-	84	C6H12	000760-21-4	64
5	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	62





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

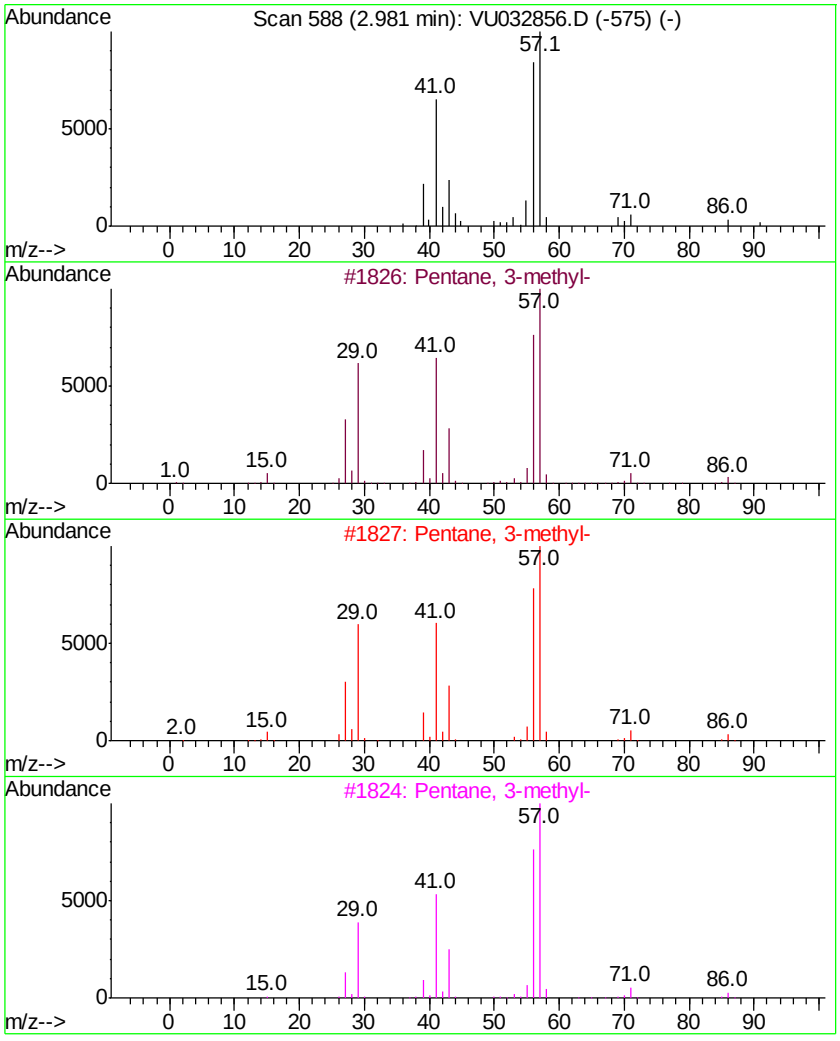
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

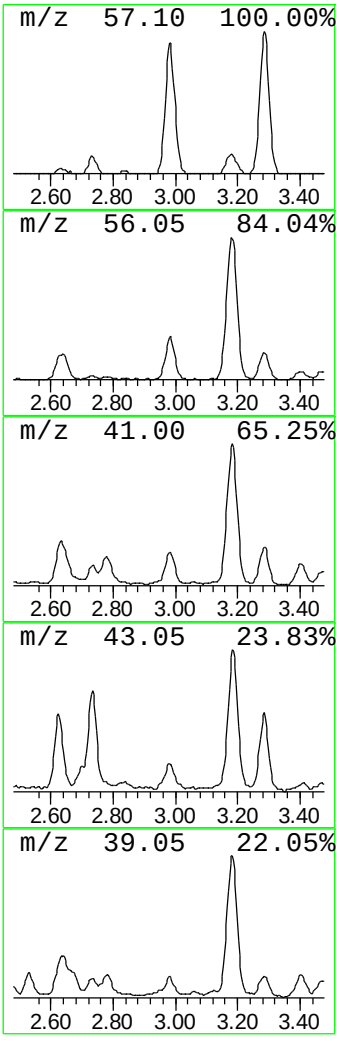
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	1.09 ug/L	48968	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	87
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	80
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	72
5	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

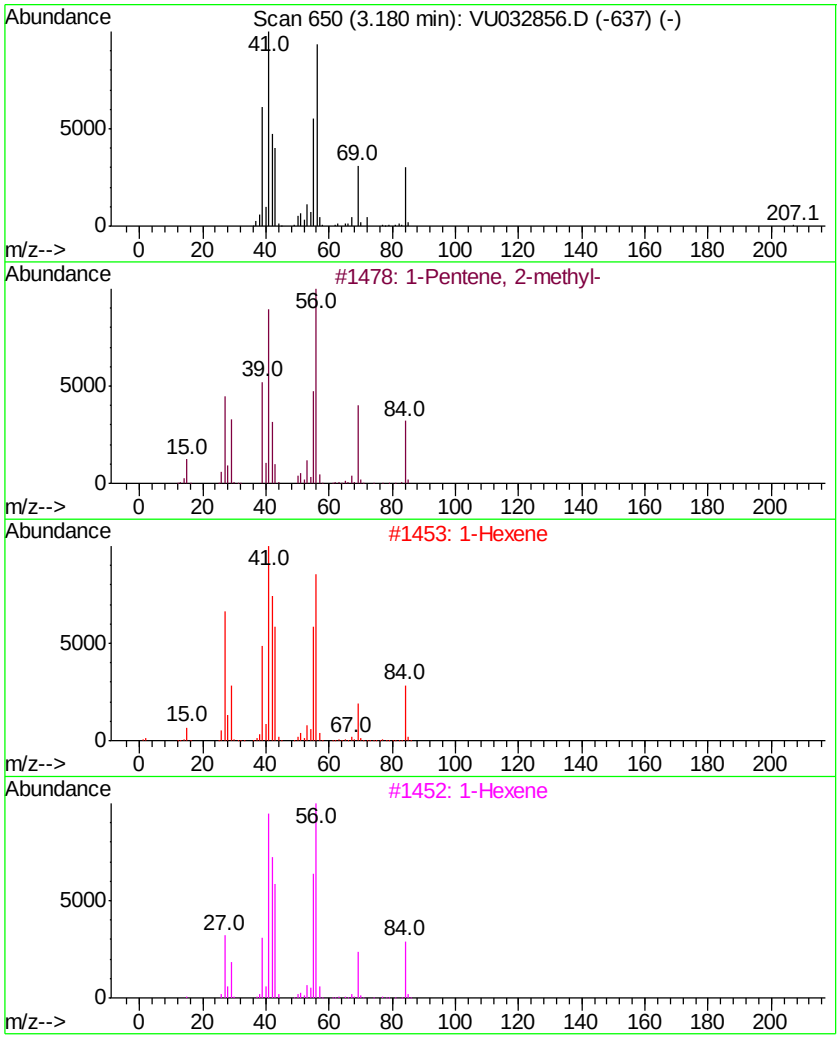
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

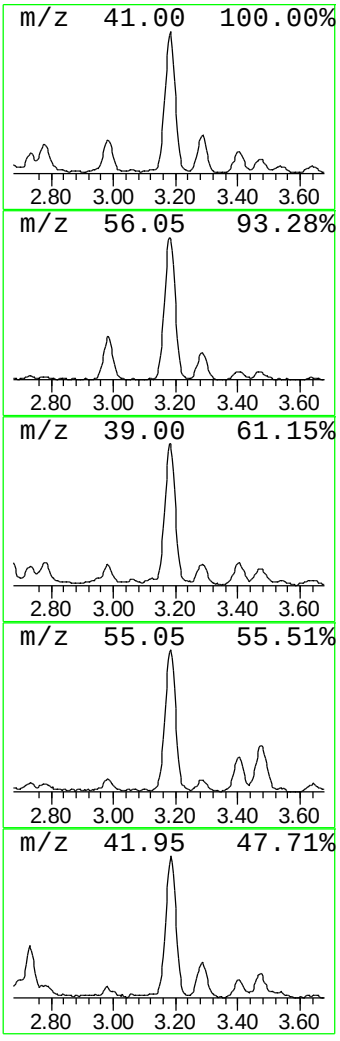
****

Peak Number 14 (DEL) Alkane: Cyclic3.18 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	5.32 ug/L	238350	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	83
2	1-Hexene	84	C6H12	000592-41-6	72
3	1-Hexene	84	C6H12	000592-41-6	64
4	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	58
5	Cyclobutane, butyl-	112	C8H16	013152-44-8	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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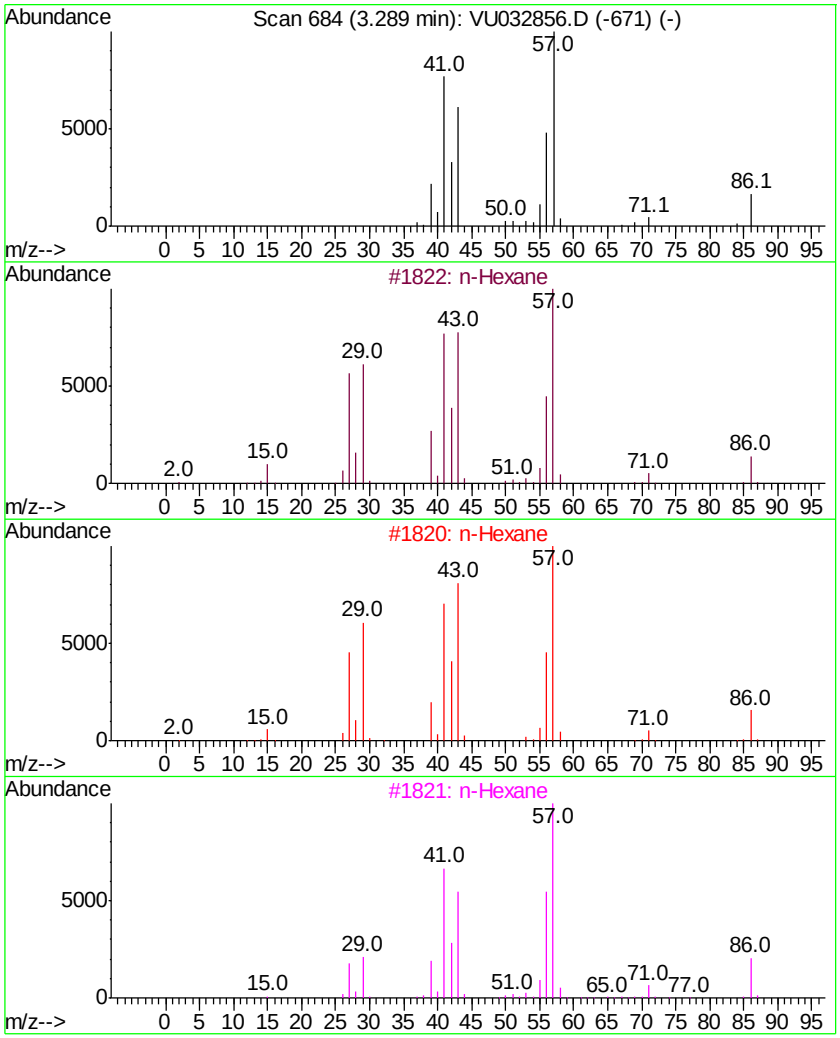
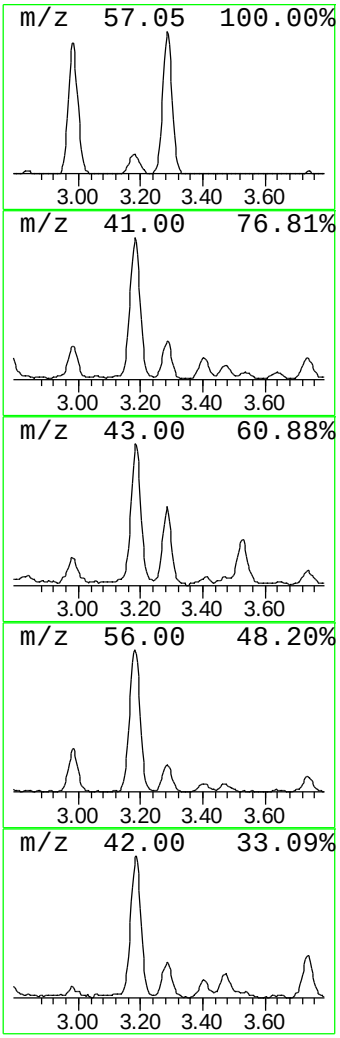
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.29	1.40 ug/L	62576	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	91
2	n-Hexane	86	C6H14	000110-54-3	91
3	n-Hexane	86	C6H14	000110-54-3	83
4	3-Buten-1-ol, 3-methyl-	86	C5H10O	000763-32-6	38
5	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	38





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Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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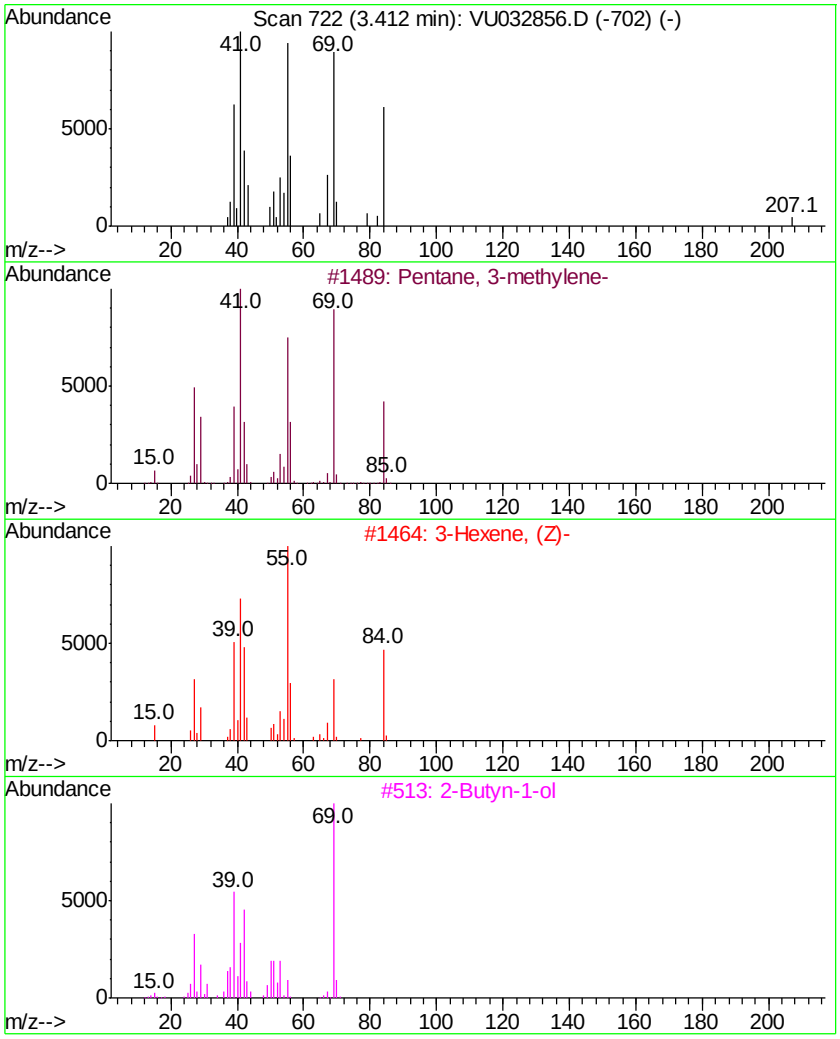
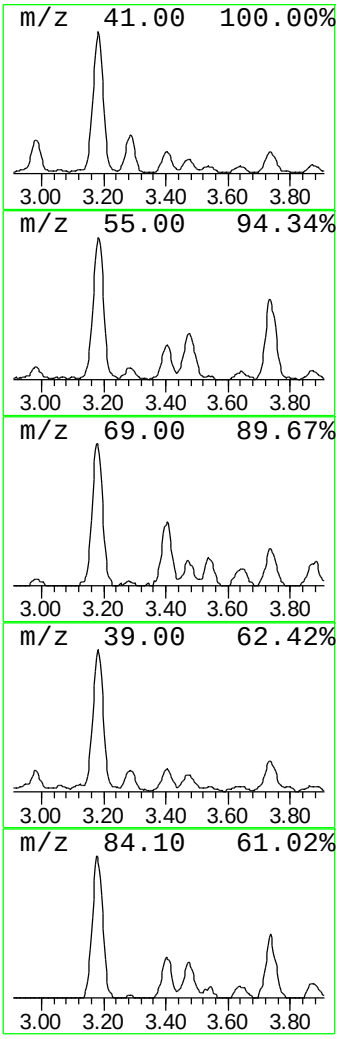
Peak Number 16 (DEL) Alkane: Cyclic3.41 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.41	0.93 ug/L	41818	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methylene-	84	C6H12	000760-21-4	86
2	3-Hexene, (Z)-	84	C6H12	007642-09-3	49
3	2-Butyn-1-ol	70	C4H6O	000764-01-2	49
4	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	45
5	Cyclopropane, 1-ethyl-1-methyl-	84	C6H12	053778-43-1	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.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 (DEL) Alkane: Cyclic3.48 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.48	0.55 ug/L	24607	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, (Z)-	84	C6H12	007688-21-3	97
2	2-Hexene	84	C6H12	000592-43-8	91
3	2-Hexene	84	C6H12	000592-43-8	91
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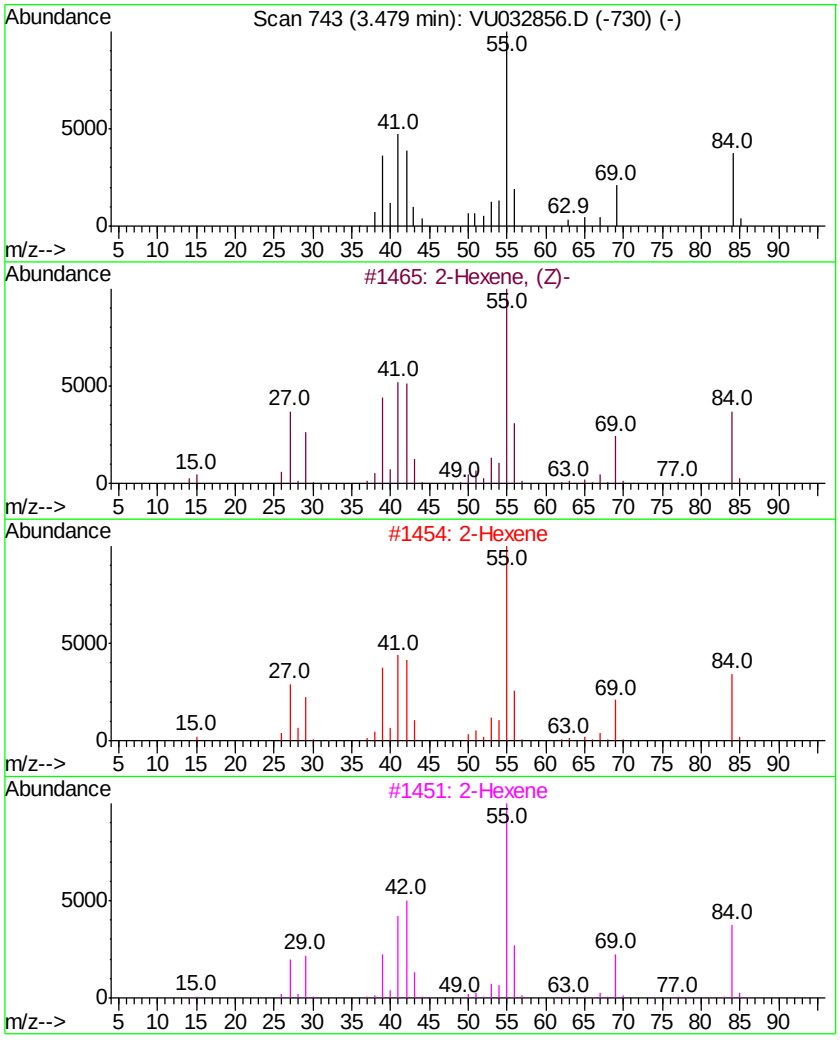
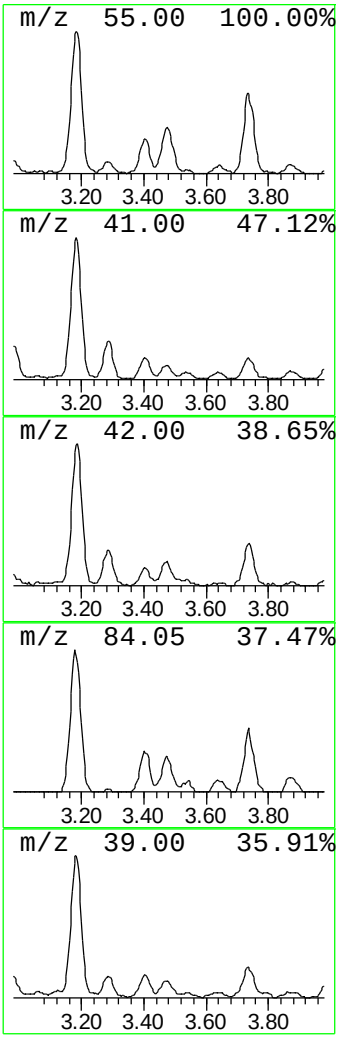
5	3-Hexene, (Z)-	84	C6H12	007642-09-3	90





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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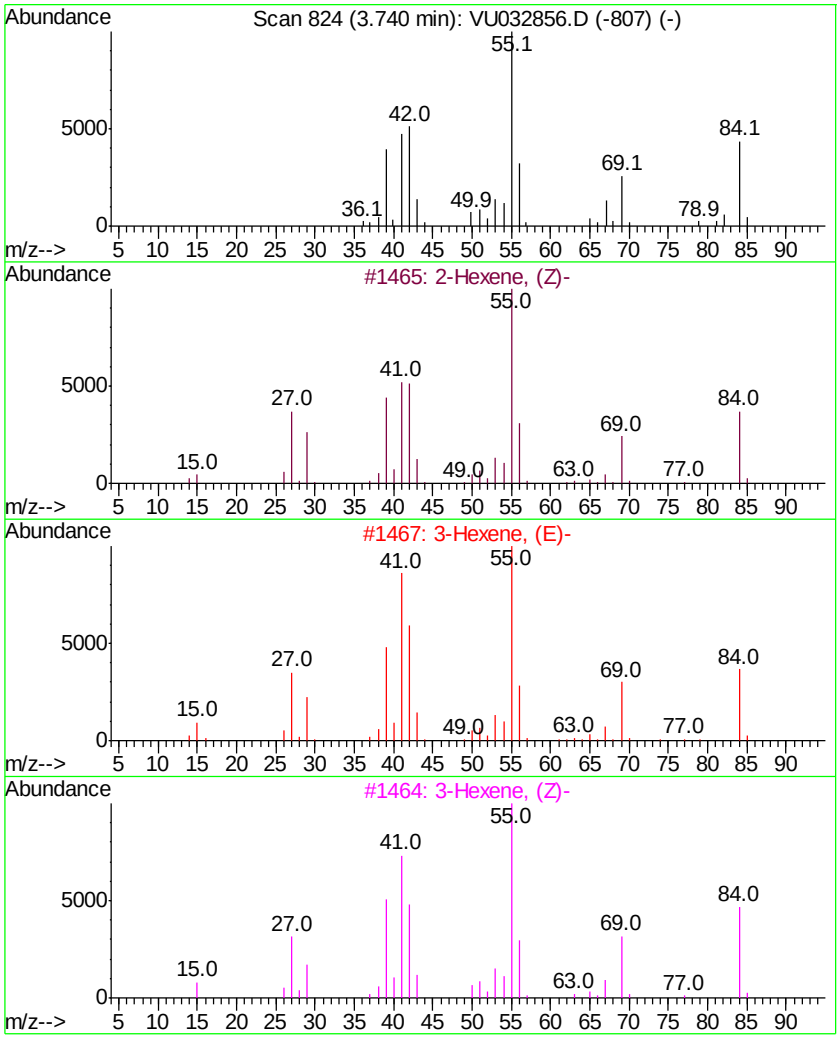
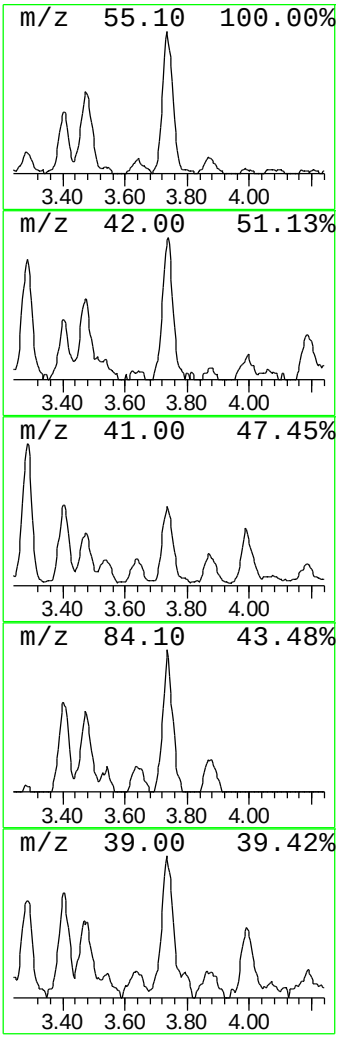
Peak Number 18 (DEL) Alkane: Cyclic3.74 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.74	1.51 ug/L	67742	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, (Z)-	84	C6H12	007688-21-3	95
2	3-Hexene, (E)-	84	C6H12	013269-52-8	91
3	3-Hexene, (Z)-	84	C6H12	007642-09-3	91
4	2-Hexene	84	C6H12	000592-43-8	76
5	3-Hexene, (Z)-	84	C6H12	007642-09-3	68





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

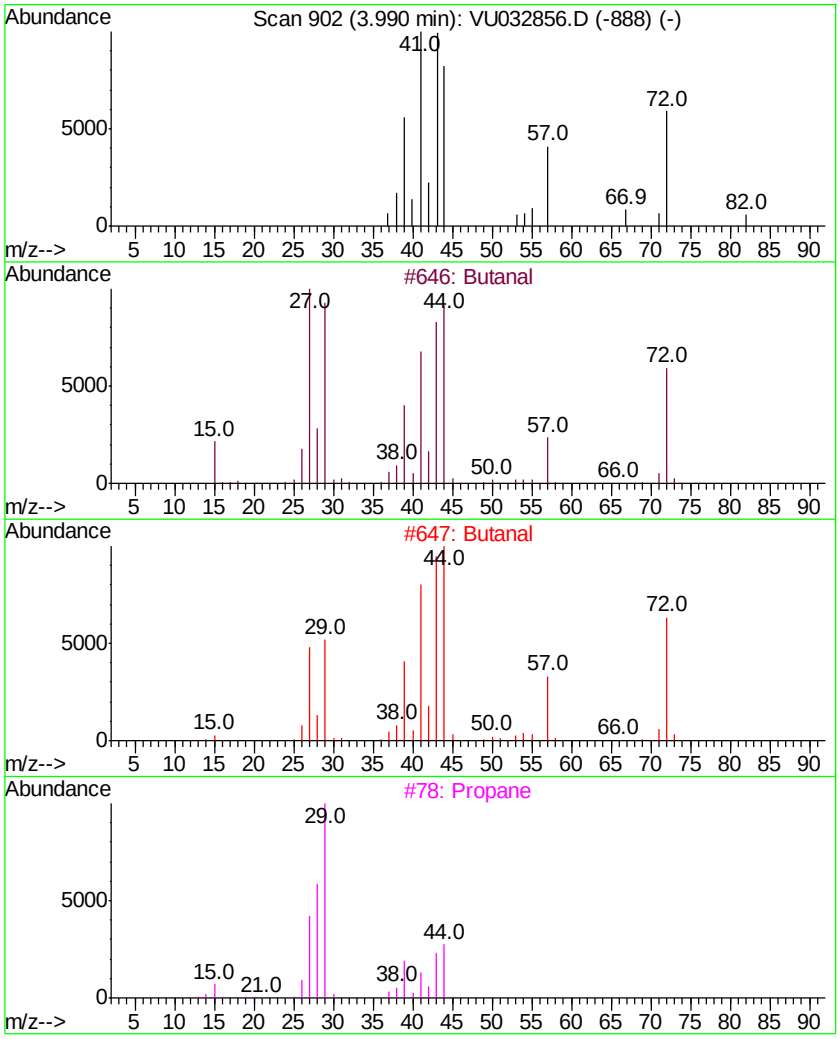
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

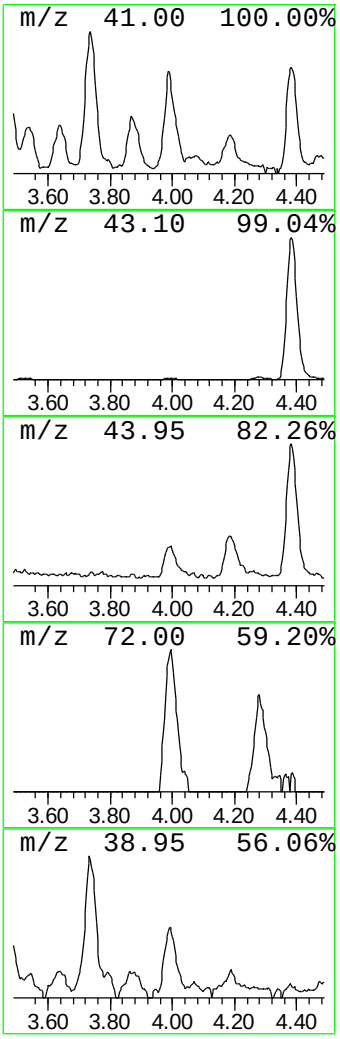
****

Peak Number 19 Butanal Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.99	0.62 ug/L	27675	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	58
2	Butanal	72	C4H8O	000123-72-8	53
3	Propane	44	C3H8	000074-98-6	42
4	Propane	44	C3H8	000074-98-6	40
5	2-Hexynoic acid	112	C6H8O2	000764-33-0	23





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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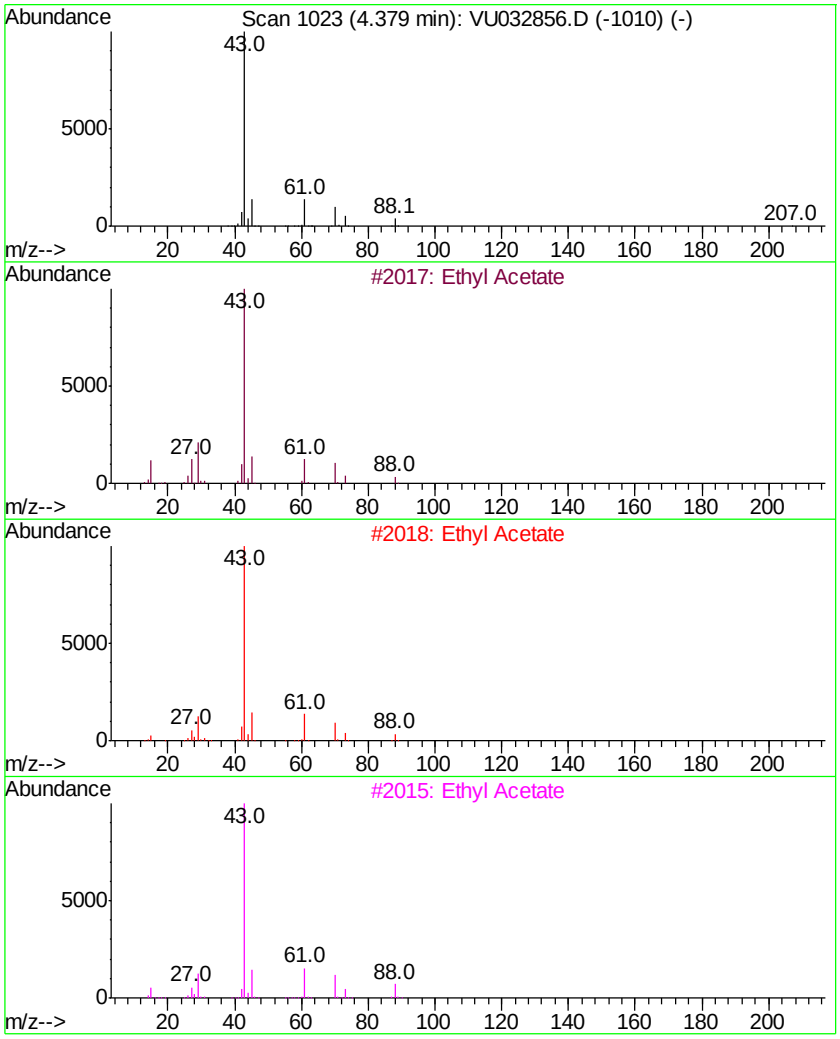
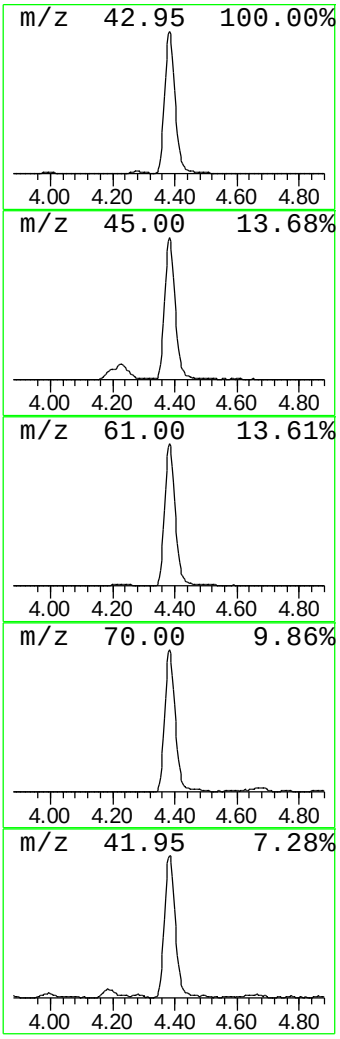
Peak Number 20 Ethyl Acetate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.38	16.92 ug/L	757726	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl Acetate	88	C4H8O2	000141-78-6	86
2	Ethyl Acetate	88	C4H8O2	000141-78-6	86
3	Ethyl Acetate	88	C4H8O2	000141-78-6	59
4	Ethyl Acetate	88	C4H8O2	000141-78-6	50
5	CH3C(O)CH2CH2OH	88	C4H8O2	000590-90-9	42





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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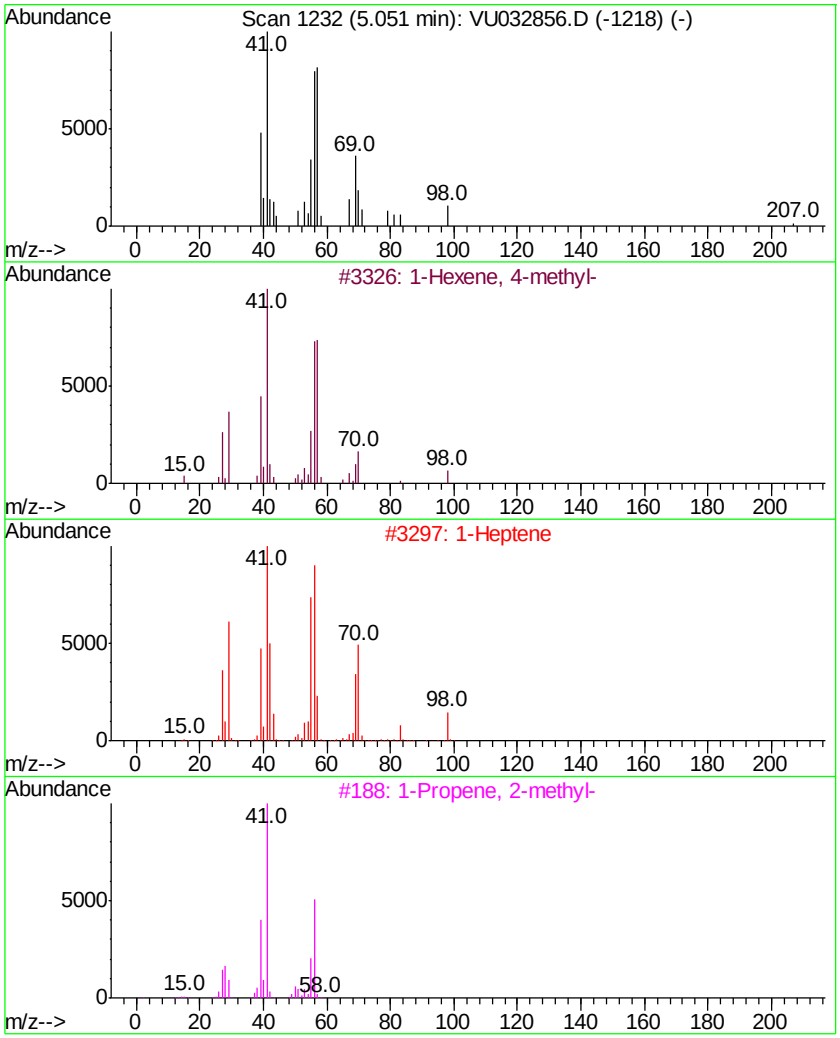
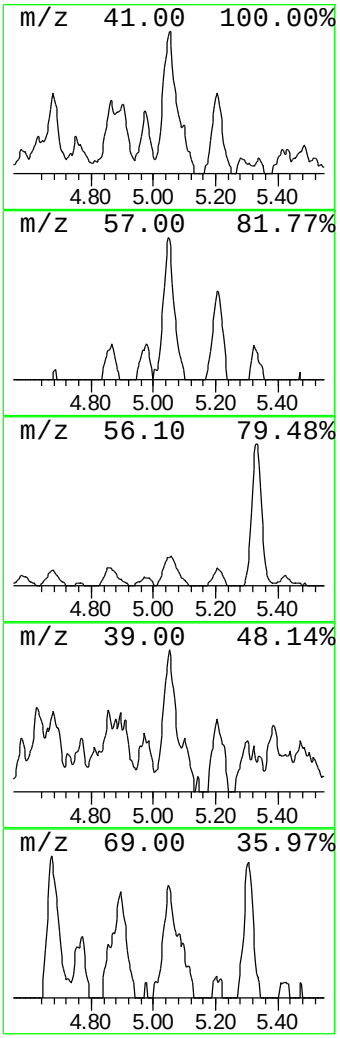
Peak Number 21 (DEL) Alkane: Cyclic5.05 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.05	0.85 ug/L	38023	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 4-methyl-	98	C7H14	003769-23-1	91
2	1-Heptene	98	C7H14	000592-76-7	72
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	64
4	1-Hexene, 3,5-dimethyl-	112	C8H16	007423-69-0	56
5	Cyclobutanone, 3,3-dimethyl-	98	C6H10O	001192-33-2	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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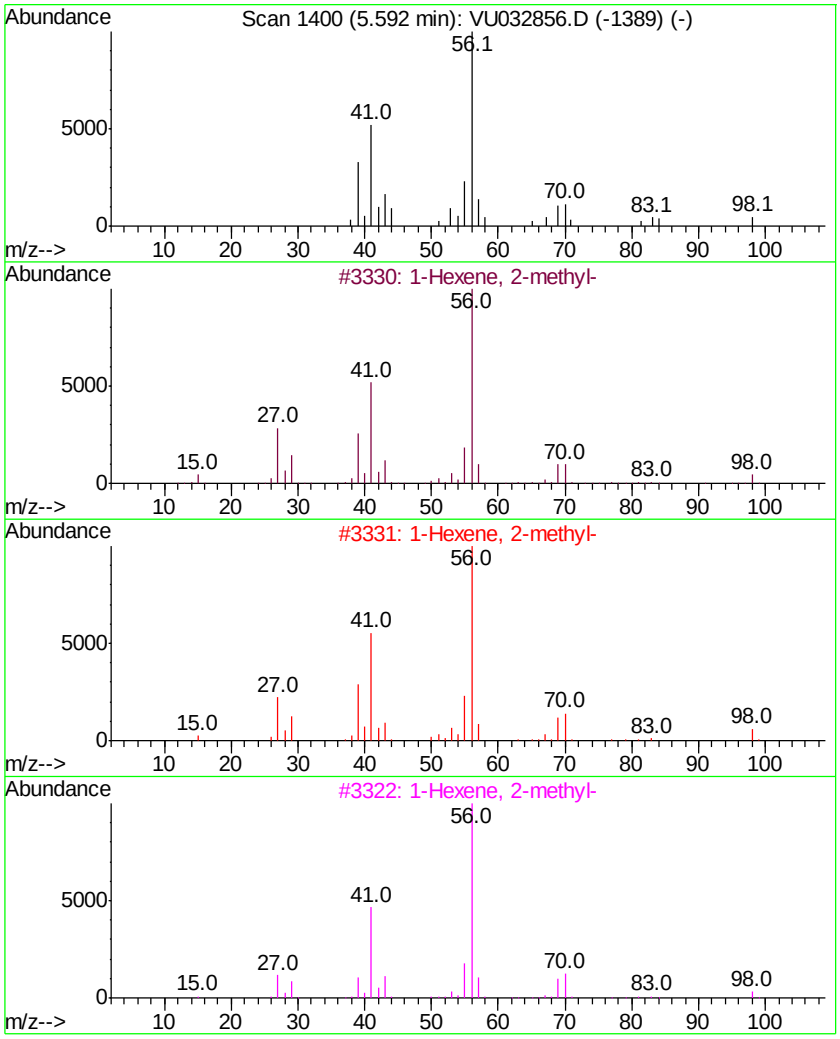
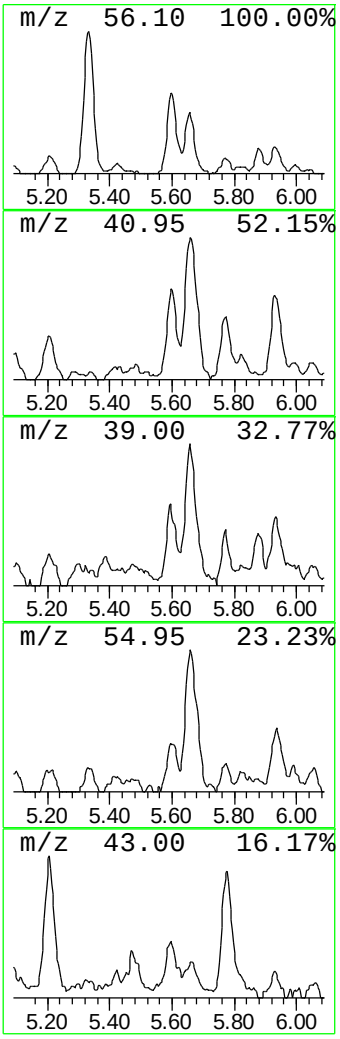
Peak Number 22 (DEL) Alkane: Cyclic5.59 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.59	0.73 ug/L	32702	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	87
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	87
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	80
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	80
5	1-Hexene, 4-methyl-	98	C7H14	003769-23-1	72





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Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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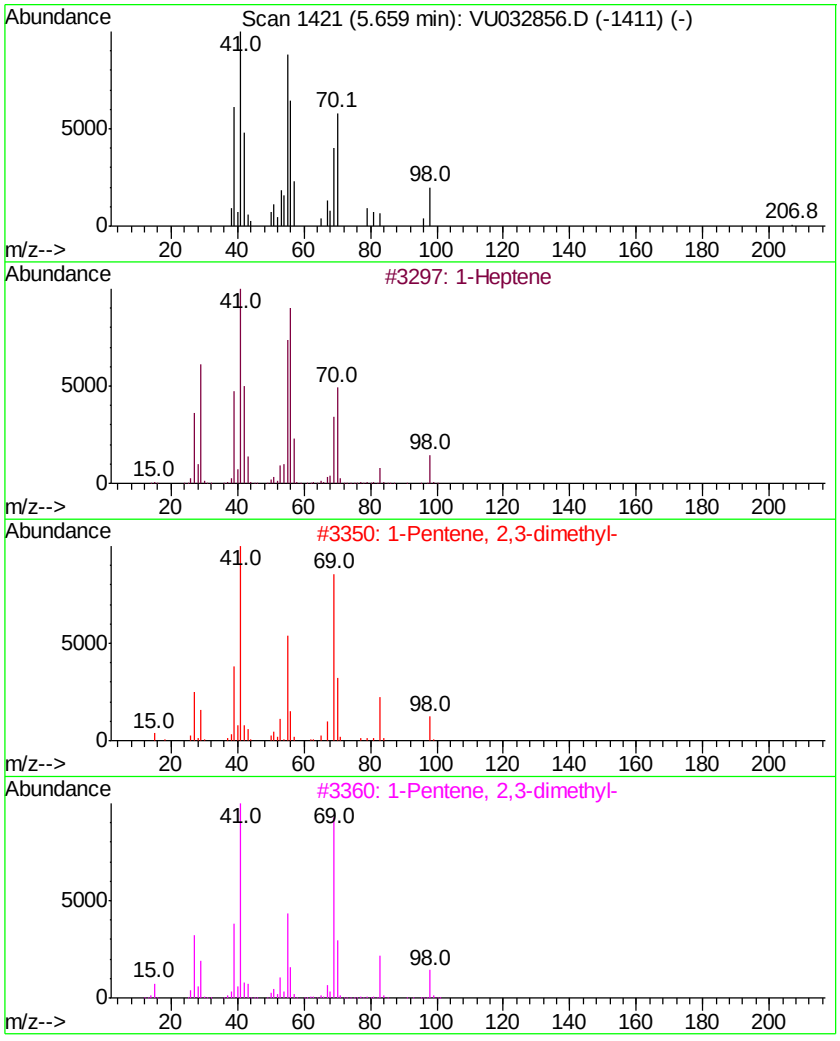
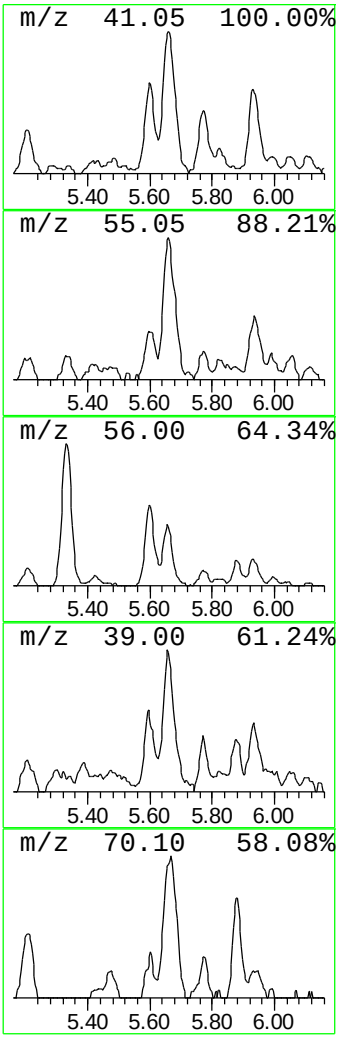
Peak Number 23 (DEL) Alkane: Cyclic5.66 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.66	1.45 ug/L	64809	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene	98	C7H14	000592-76-7	76
2	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	50
3	1-Pentene, 2,3-dimethyl-	98	C7H14	003404-72-6	50
4	1-Heptene	98	C7H14	000592-76-7	47
5	Isopropylcyclobutane	98	C7H14	000872-56-0	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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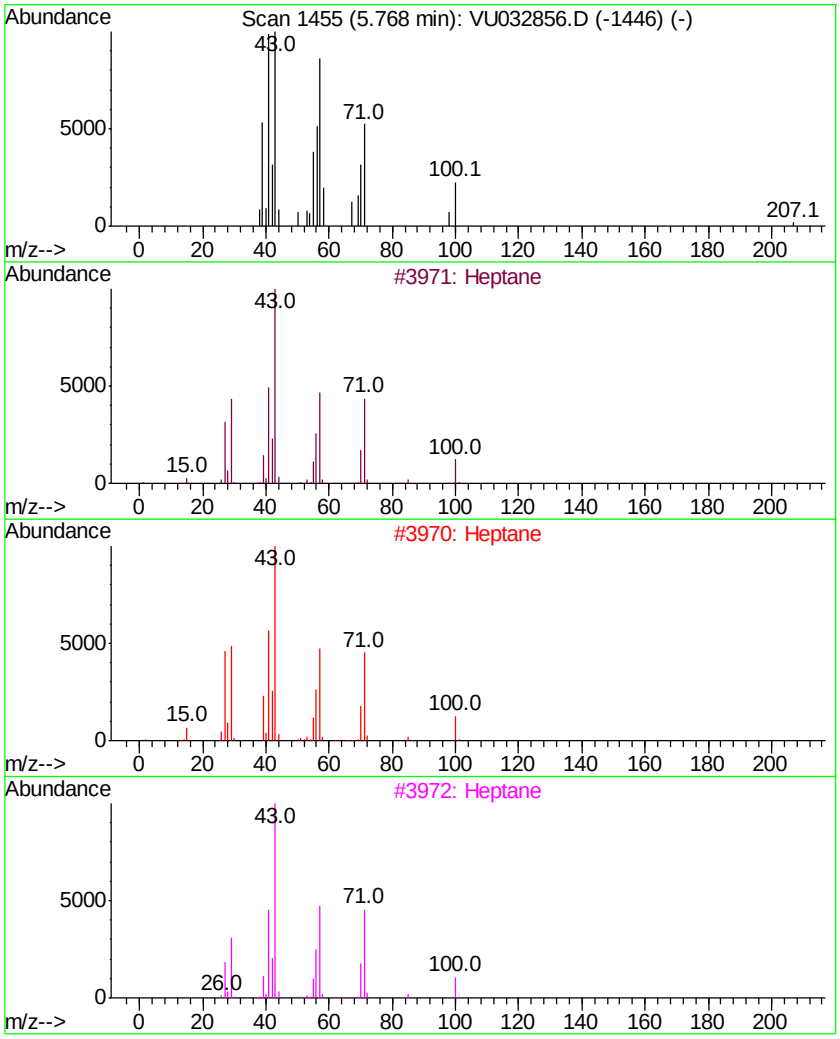
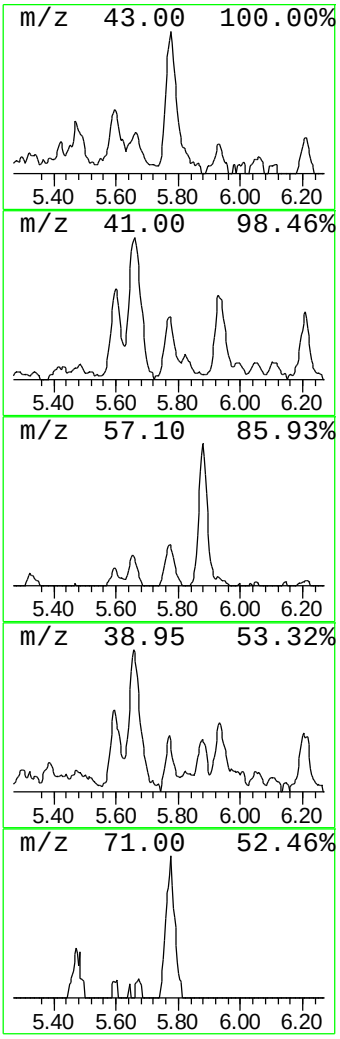
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.77	0.54 ug/L	23968	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	52
2	Heptane	100	C7H16	000142-82-5	52
3	Heptane	100	C7H16	000142-82-5	50
4	Heptane	100	C7H16	000142-82-5	49
5	Oxalic acid, isobutyl octyl ester	258	C14H26O4	1000309-37-3	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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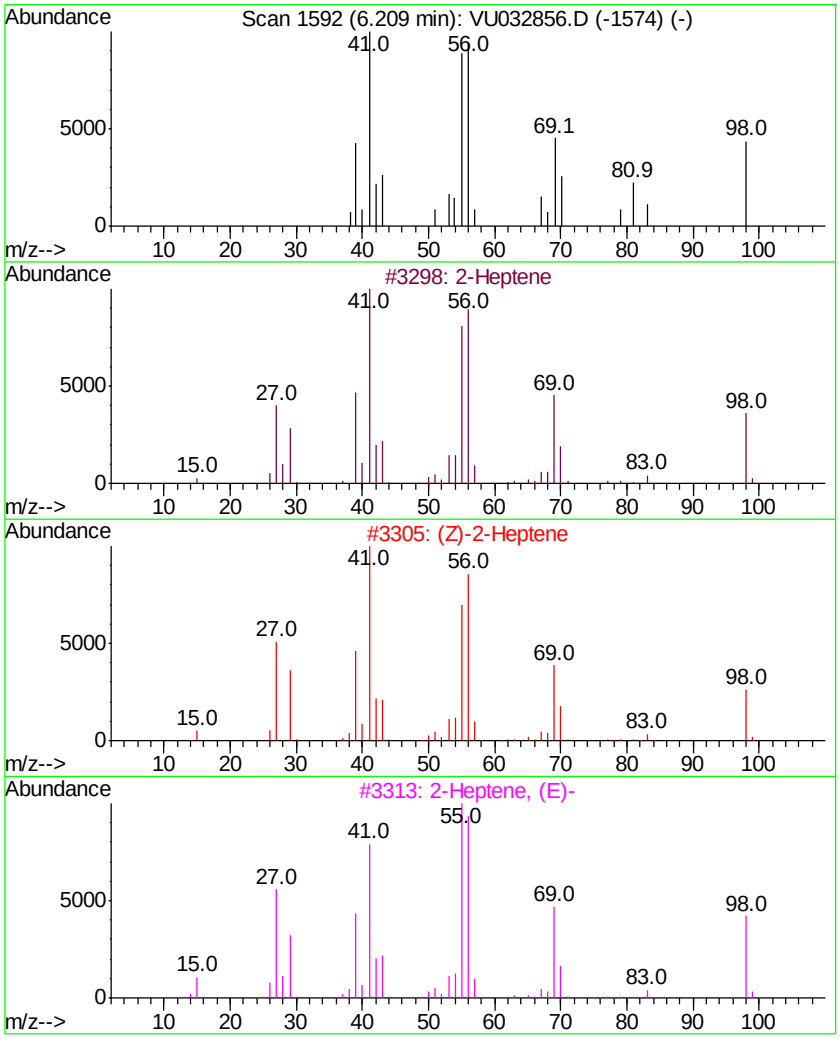
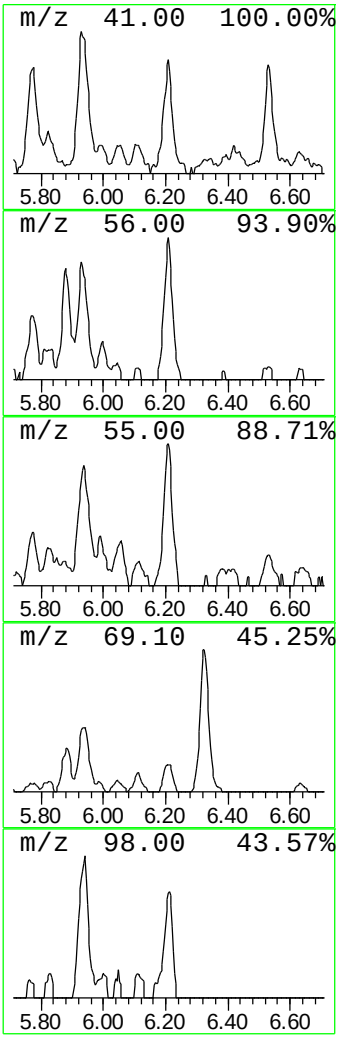
Peak Number 25 (DEL) Alkane: Cyclic6.21 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.21	0.66 ug/L	29503	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptene	98	C7H14	000592-77-8	93
2	(Z)-2-Heptene	98	C7H14	006443-92-1	87
3	2-Heptene, (E)-	98	C7H14	014686-13-6	87
4	(Z)-3-Heptene	98	C7H14	007642-10-6	68
5	3-Heptene, (E)-	98	C7H14	014686-14-7	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

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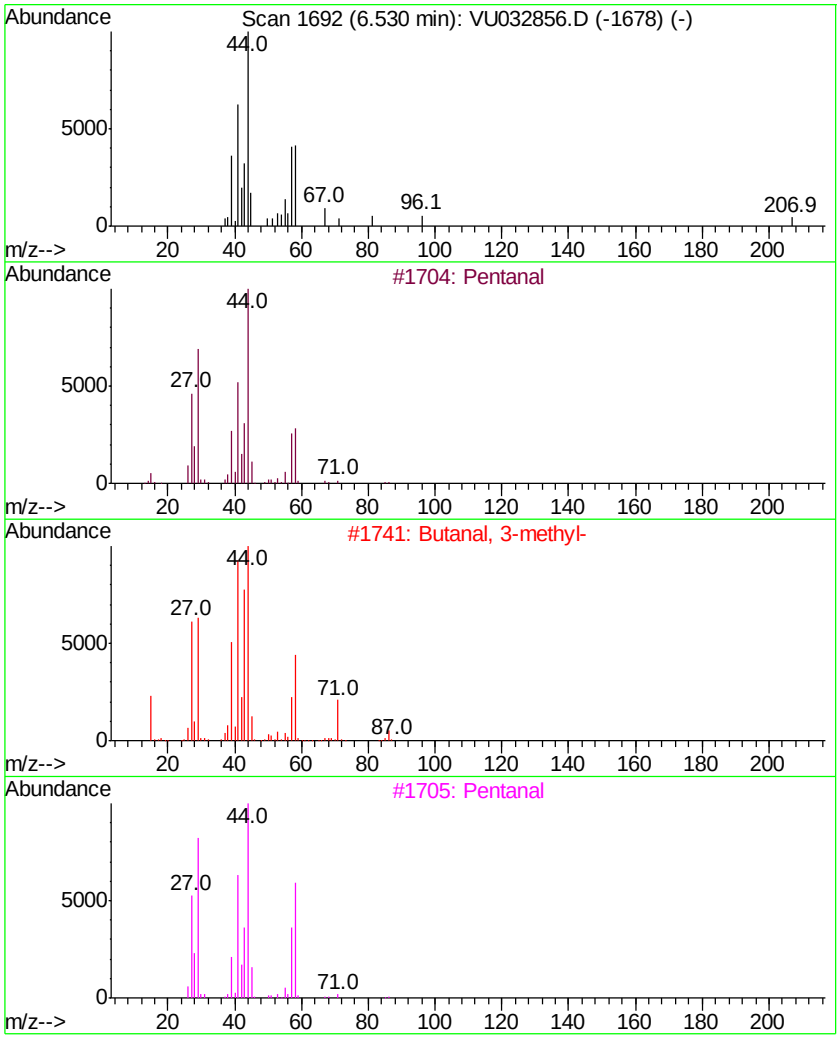
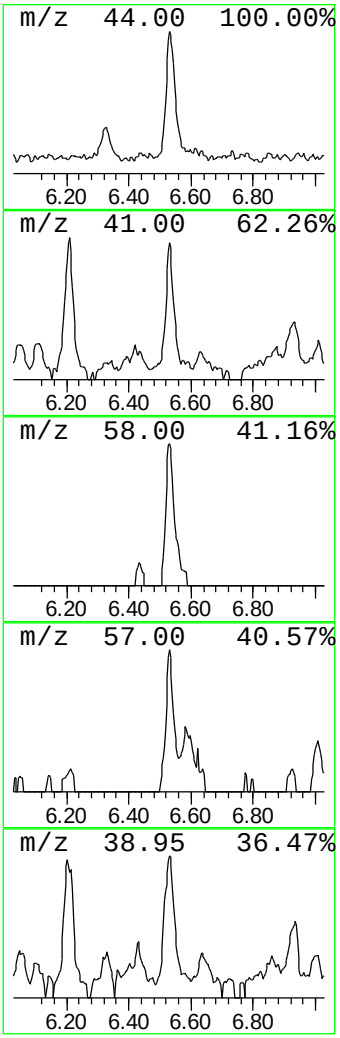
Peak Number 26 Pentanal Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	0.52 ug/L	23192	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	56
2	Butanal, 3-methyl-	86	C5H10O	000590-86-3	56
3	Pentanal	86	C5H10O	000110-62-3	39
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	25
5	Adenine-9-propanoic acid, .alpha...	322	C13H18N6O4	055387-36-5	23





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061919\
Data File : VU032856.D
Acq On : 19 Jun 2019 14:23
Operator : JC/SP
Sample : K3413-09
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : GALF7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060419WMA.M
Quant Title : TRACE VOA SOM01.0

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	1.18	43.4	ug/L	1941890	1	5.88	223910	5.0
(DEL) Alkane: Str...	1.30	2.1	ug/L	94483	1	5.88	223910	5.0
(DEL) Alkane: Str...	1.45	0.7	ug/L	29941	1	5.88	223910	5.0
unknown-01	1.47	1.4	ug/L	60866	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	1.51	3.6	ug/L	159433	1	5.88	223910	5.0
(DEL) Alkane: Str...	1.75	2.6	ug/L	117260	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	1.90	7.9	ug/L	353617	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	1.95	8.5	ug/L	381785	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	2.05	0.9	ug/L	38823	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	2.13	3.4	ug/L	150828	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	2.18	0.8	ug/L	35486	1	5.88	223910	5.0
(DEL) Alkane: Str...	2.64	2.4	ug/L	107487	1	5.88	223910	5.0
(DEL) Alkane: Str...	2.98	1.1	ug/L	48968	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	3.18	5.3	ug/L	238350	1	5.88	223910	5.0
(DEL) Alkane: Str...	3.29	1.4	ug/L	62576	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	3.41	0.9	ug/L	41818	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	3.48	0.6	ug/L	24607	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	3.74	1.5	ug/L	67742	1	5.88	223910	5.0
Butanal	3.99	0.6	ug/L	27675	1	5.88	223910	5.0
Ethyl Acetate	4.38	16.9	ug/L	757726	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	5.05	0.8	ug/L	38023	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	5.59	0.7	ug/L	32702	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	5.66	1.5	ug/L	64809	1	5.88	223910	5.0
(DEL) Alkane: Str...	5.77	0.5	ug/L	23968	1	5.88	223910	5.0
(DEL) Alkane: Cyc...	6.21	0.7	ug/L	29503	1	5.88	223910	5.0
Pentanal	6.53	0.5	ug/L	23192	1	5.88	223910	5.0