LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 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_D\METHOD\82D052019S.M
Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.683	23	26	35	rBV	974147	2204912	1.05%	0.150%
2	1.821	35	40	55	rBV	3554929	11554095	5.52%	0.788%
3	2.342	87	93	116	rBV	21879656	199916386	95.45%	13.638%
4	2.628	116	122	151	rVB3	20083132	188719469	90.10%	12.874%
5	2.972	151	157	171	rBV	9347221	64619961	30.85%	4.408%
6	3.878	221	249	250	rBV	30996838	209447140	100.00%	14.288%
7	4.714	329	334	335	rBV	7914520	20745389	9.90%	1.415%
8	5.590	415	423	426	rBV2	8119621	37967414	18.13%	2.590%
9	6.722	523	538	539	rBV	16887072	88895606	42.44%	6.064%
10	7.145	577	581	582	rBV	7050316	14112872	6.74%	0.963%
11	11.662	1037	1040	1042	rBV2	4290180	7827416	3.74%	0.534%
12	12.606	1128	1136	1140	rBV	18724814	92114653	43.98%	6.284%
13	12.754	1147	1151	1153	rBV2	13173720	31327071	14.96%	2.137%
14	12.931	1166	1169	1172	rVB2	6824568	11905115	5.68%	0.812%
15	12.990	1172	1175	1178	rVV4	3678824	7918802	3.78%	0.540%
16	13.049	1178	1181	1182	rVV2	6136116	11015109	5.26%	0.751%
17	13.079	1182	1184	1186	rVV	6731275	11366051	5.43%	0.775%
18	13.138	1186	1190	1194	rVV4	7106947	19666556	9.39%	1.342%
19	13.207	1194	1197	1199	rVV4	3183629	7080848	3.38%	0.483%
20	13.266	1199	1203	1207	rVV3	6568723	18364919	8.77%	1.253%
21	13.354	1208	1212	1217	rVV6	6451404	19328904	9.23%	1.319%
22	13.453	1217	1222	1225	rVV	19720449	47964699	22.90%	3.272%
23	13.512	1225	1228	1231	rVV3	4526430	12722910	6.07%	0.868%
24	13.581	1233	1235	1236	rVV	7462968	11160377	5.33%	0.761%
25	13.610	1236	1238	1241	rVV	10350663	18404403	8.79%	1.256%
26	13.699	1244	1247	1249	rVV	8016994	12024879	5.74%	0.820%
27	13.748	1249	1252	1254	rVV	1867690	3111530	1.49%	0.212%
28	13.807	1254	1258	1261	rVV	15370559	30834339	14.72%	2.103%
29	13.856	1261	1263	1264	rVV	1590473	2692049	1.29%	0.184%
30	13.915	1264	1269	1271	rVV	18770646	43328979	20.69%	2.956%
31	13.964	1271	1274	1280	rVB2	17232420	37866532	18.08%	2.583%
32	14.102	1284	1288	1291	rBV	14757942	25112604	11.99%	1.713%
33	14.279	1300	1306	1309	rVB	24657610	66512652	31.76%	4.537%
34	14.378	1313	1316	1318	rVB2	1997611	3401332	1.62%	0.232%

LSC Area Percent Report

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Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 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_D\METHOD\82D052019S.M
Title : SW846 8260

35	14.447	1318	1323	1325	rBV2	1773266	2846597	1.36%	0.194%
36	14.575	1332	1336	1340	rBV	14176686	21391724	10.21%	1.459%
37	14.712	1347	1350	1355	rBV2	10301237	18238146	8.71%	1.244%
38	14.781	1355	1357	1362	rVB2	6174274	9673725	4.62%	0.660%
39	14.919	1369	1371	1374	rVB	1942006	2287086	1.09%	0.156%
40	14.978	1374	1377	1379	rBV	3602755	5253591	2.51%	0.358%
41	15.008	1379	1380	1382	rVB	2925282	2162324	1.03%	0.148%
42	15.057	1382	1385	1387	rBV	4811273	5362140	2.56%	0.366%
43	15.136	1391	1393	1398	rVB2	1965906	3187066	1.52%	0.217%
44	15.342	1409	1414	1416	rBV	1597762	2115719	1.01%	0.144%
45	15.382	1416	1418	1420	rVB	1793523	2124874	1.01%	0.145%

Sum of corrected areas: 1465878965

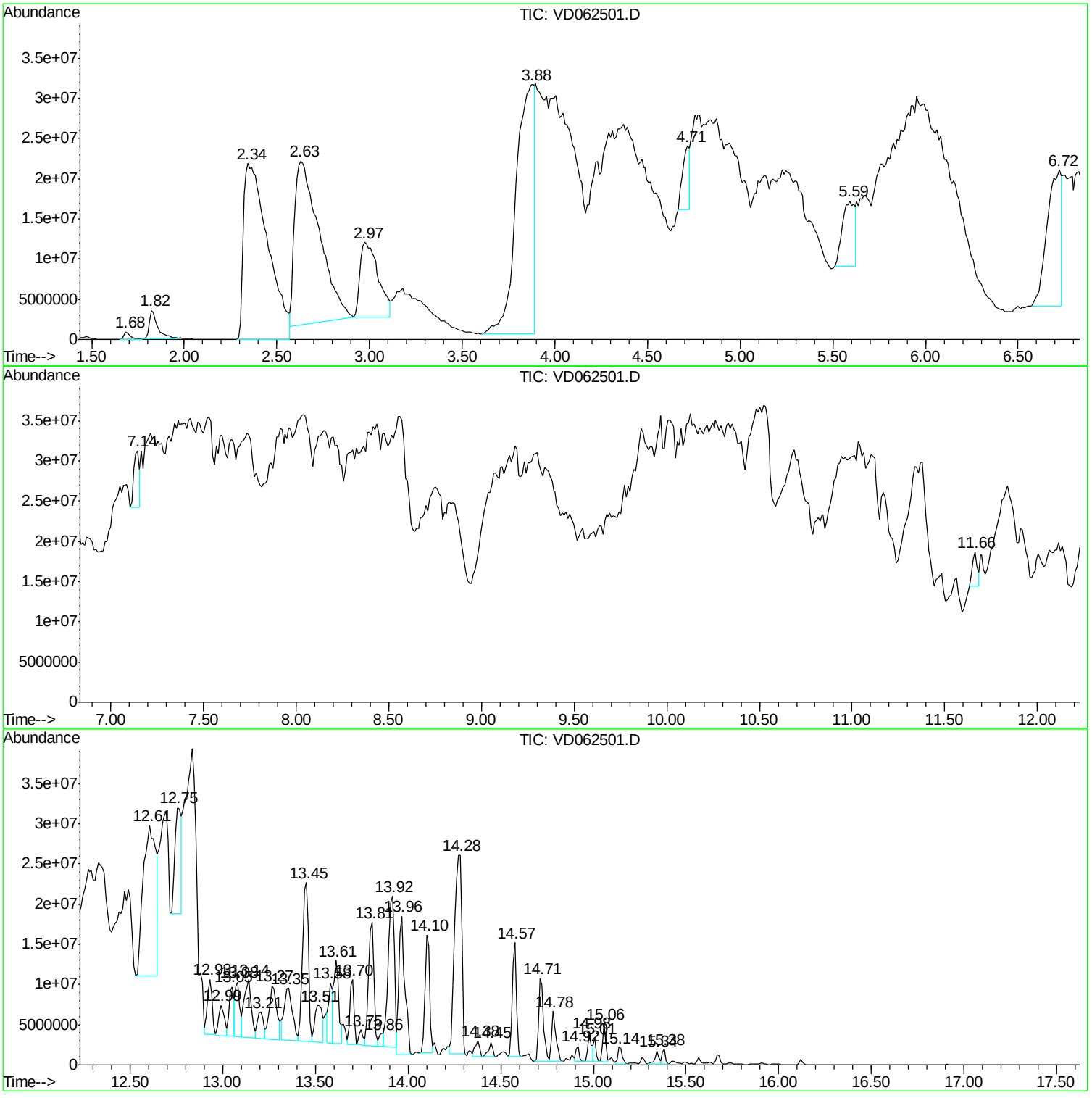
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

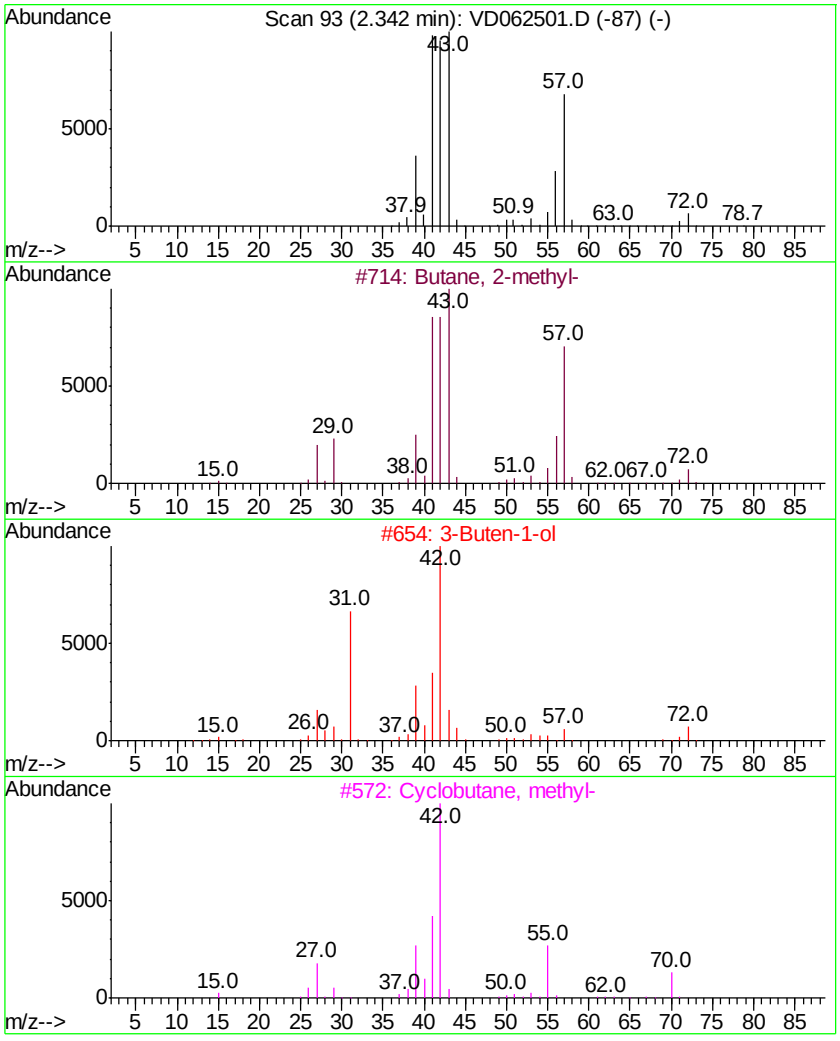
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

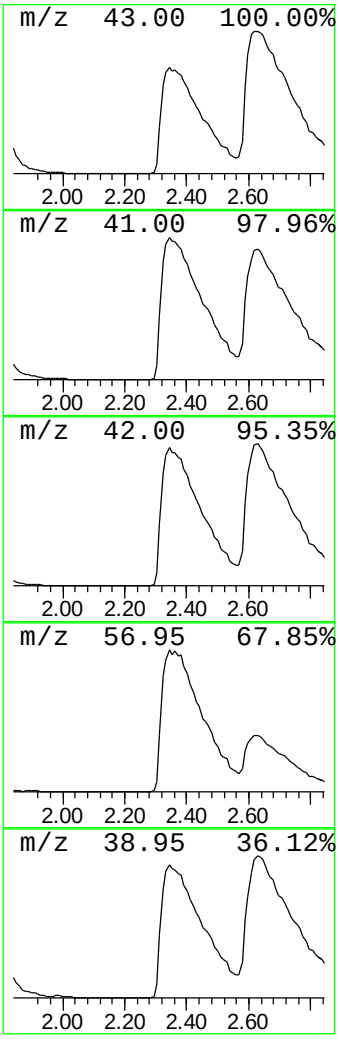
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.34	708.28 ug/l	199916000	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	3-Buten-1-ol	72	C4H8O	000627-27-0	47
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	38
4	Pentane	72	C5H12	000109-66-0	36
5	2(3H)-Furanone, dihydro-4-methyl-	100	C5H8O2	001679-49-8	33





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

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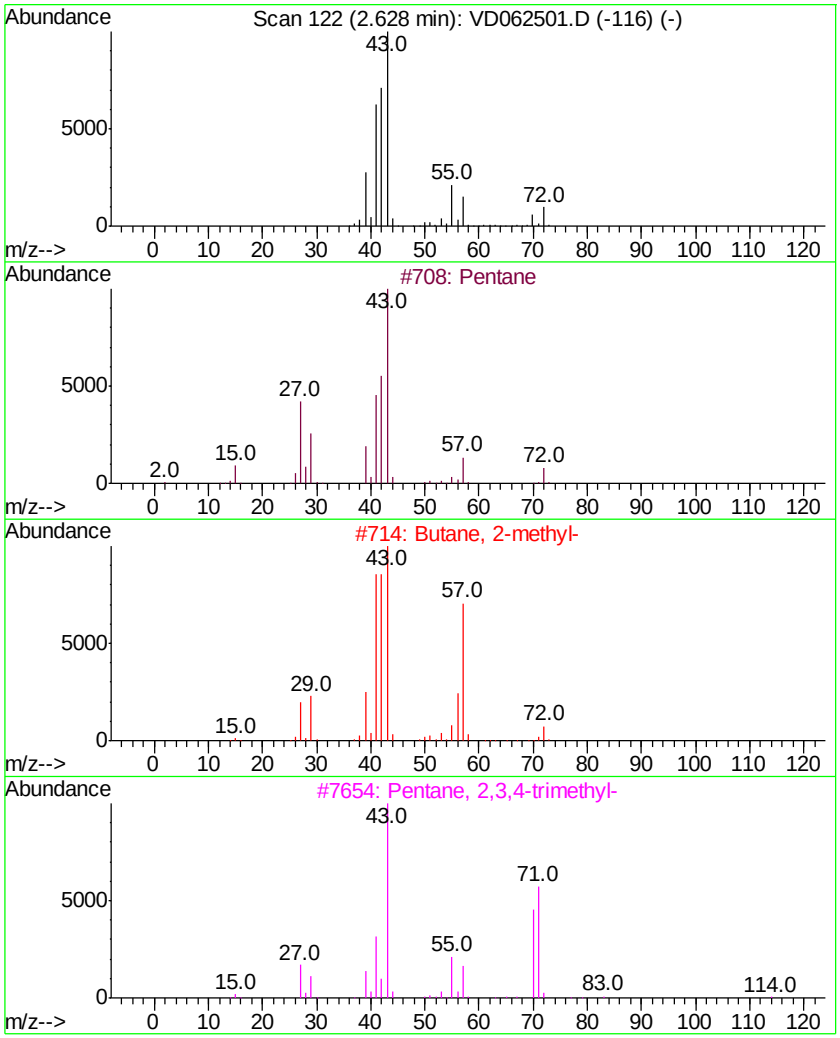
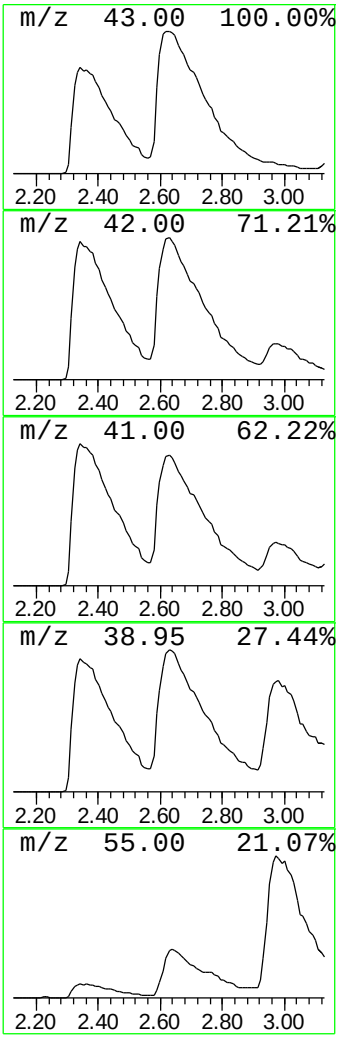
Peak Number 2 Pentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.63	668.61 ug/l	188719000	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	80
2	Butane, 2-methyl-	72	C5H12	000078-78-4	64
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	37
4	1-Pentene	70	C5H10	000109-67-1	17
5	Isobutyl nitrite	103	C4H9NO2	000542-56-3	10





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

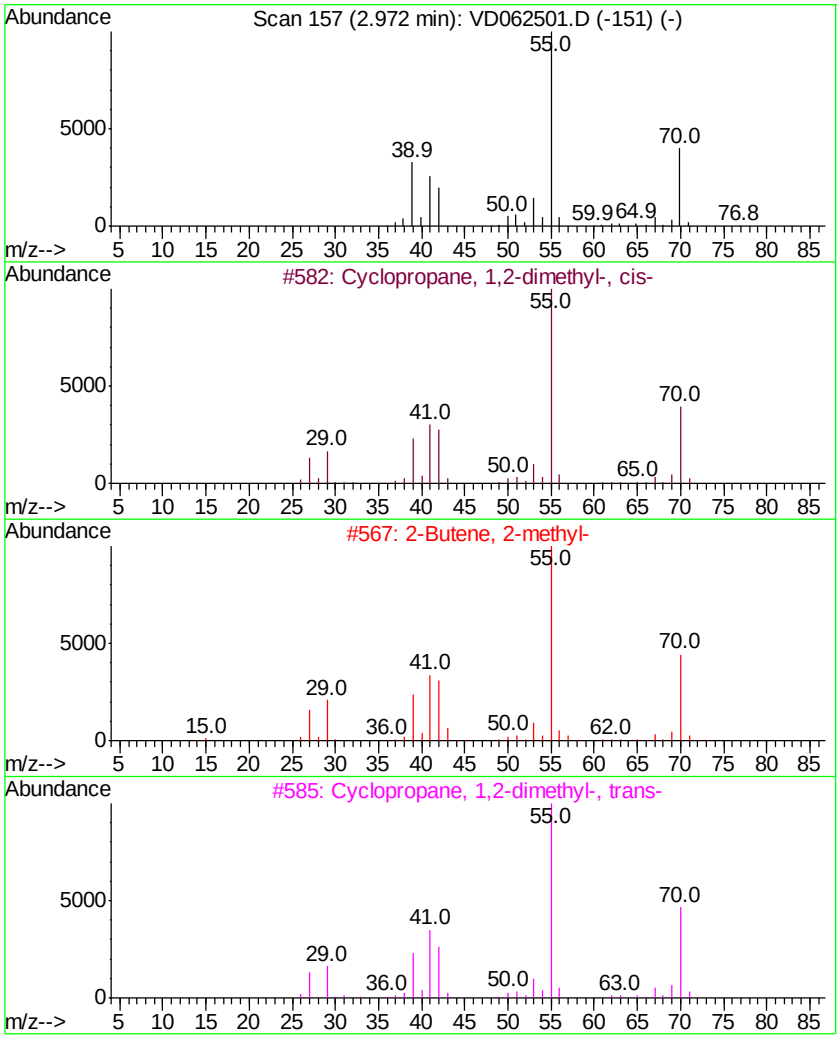
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

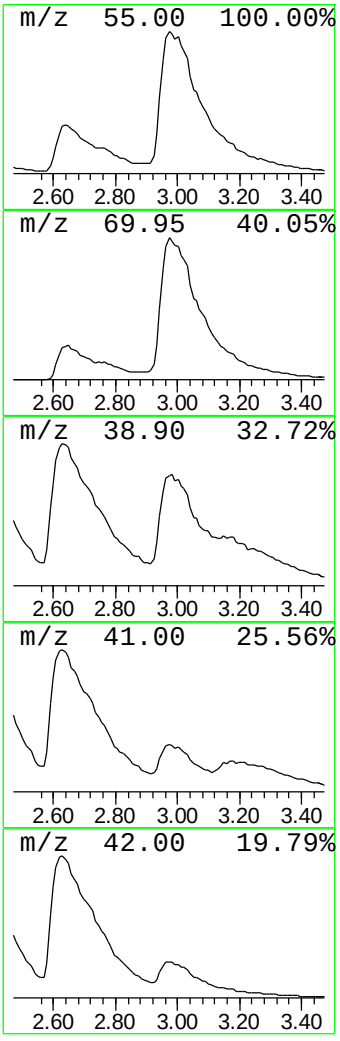
****

Peak Number 3 Cyclopropane, 1,2-dimethyl-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.97	228.94 ug/l	64620000	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
2	2-Butene, 2-methyl-	70	C5H10	000513-35-9	90
3	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	87
4	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	87
5	1-Butene, 3-methyl-	70	C5H10	000563-45-1	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

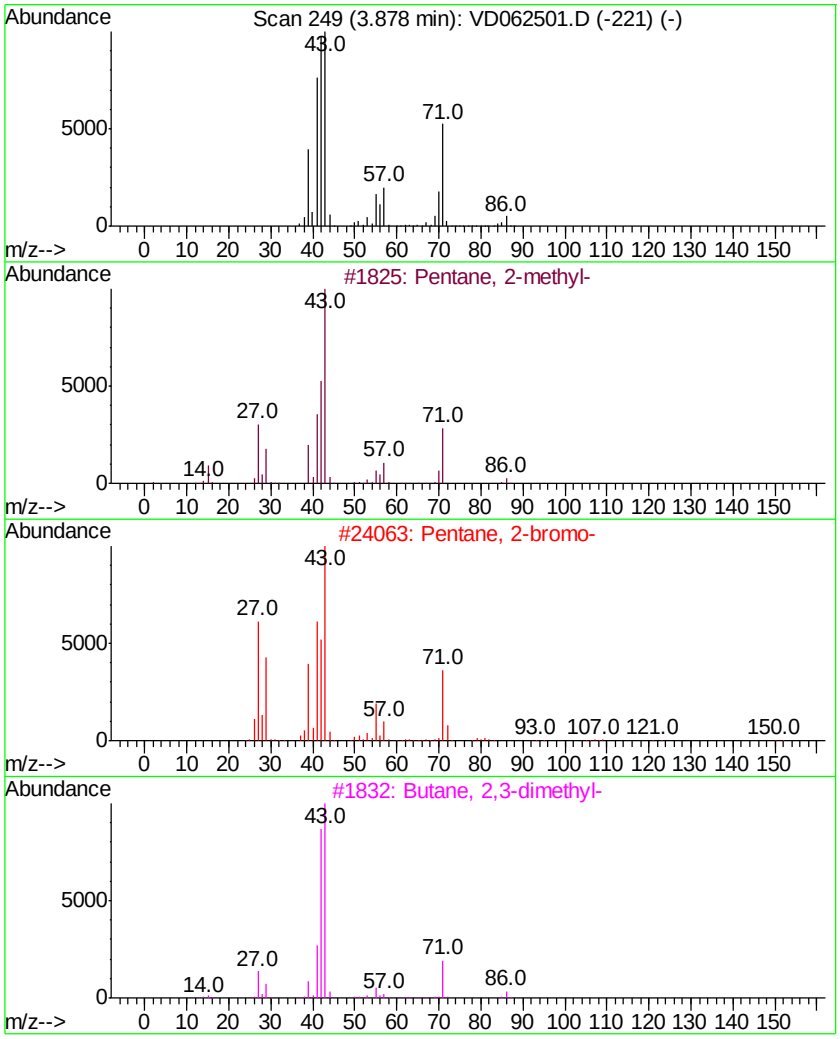
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

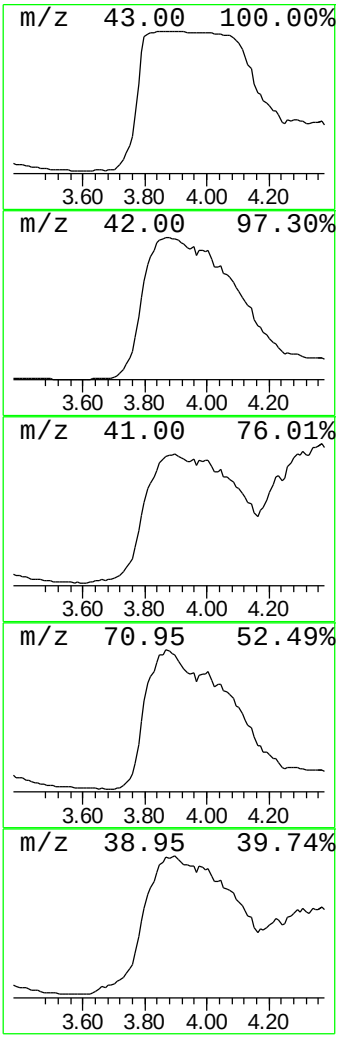
****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.88	742.04 ug/l	209447000	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-bromo-	150	C5H11Br	000107-81-3	53
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	38
4	1,6-Heptadien-4-ol	112	C7H12O	002883-45-6	27
5	Butane, 2-methyl-	72	C5H12	000078-78-4	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

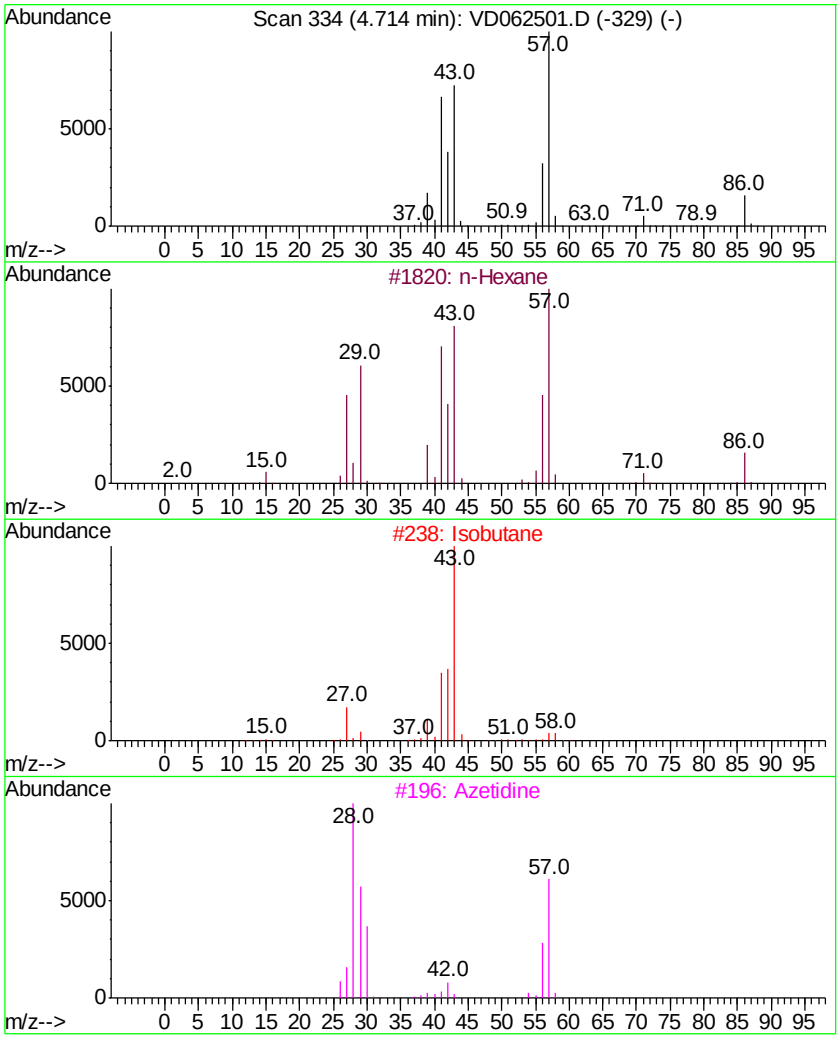
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

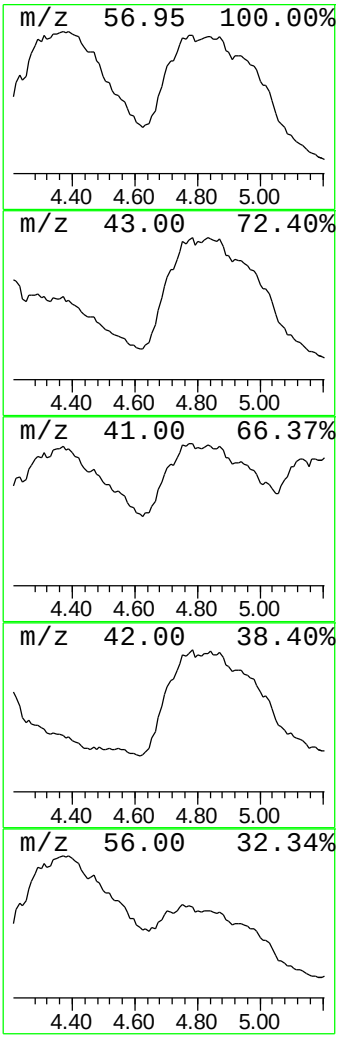
****

Peak Number 5 n-Hexane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.71	73.50 ug/l	20745400	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	90
2	Isobutane	58	C4H10	000075-28-5	32
3	Azetidine	57	C3H7N	000503-29-7	32
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	28
5	Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	27





Library Search Compound Report

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Data File : VD062501.D
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Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

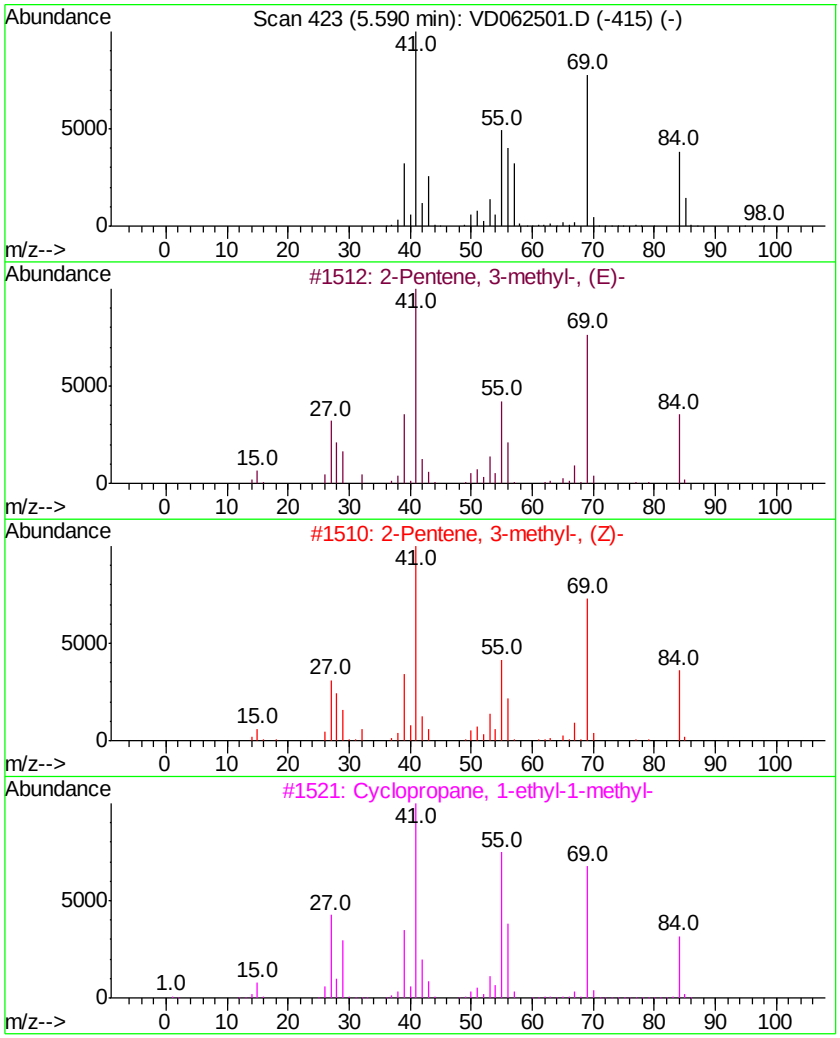
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

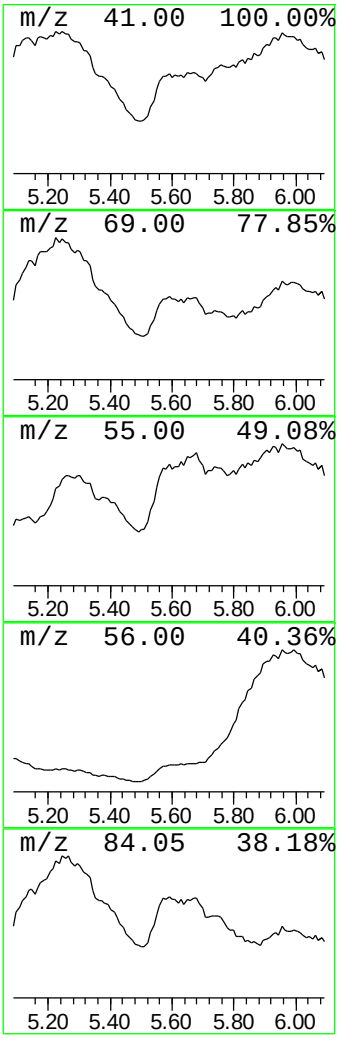
****

Peak Number 6 2-Pentene, 3-methyl-, (E)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.59	134.51 ug/l	37967400	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	87
2	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	81
3	Cyclopropane, 1-ethyl-1-methyl-	84	C6H12	053778-43-1	80
4	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	74
5	Cyclopropane, 1,2,3-trimethyl-	84	C6H12	042984-19-0	72





Library Search Compound Report

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ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

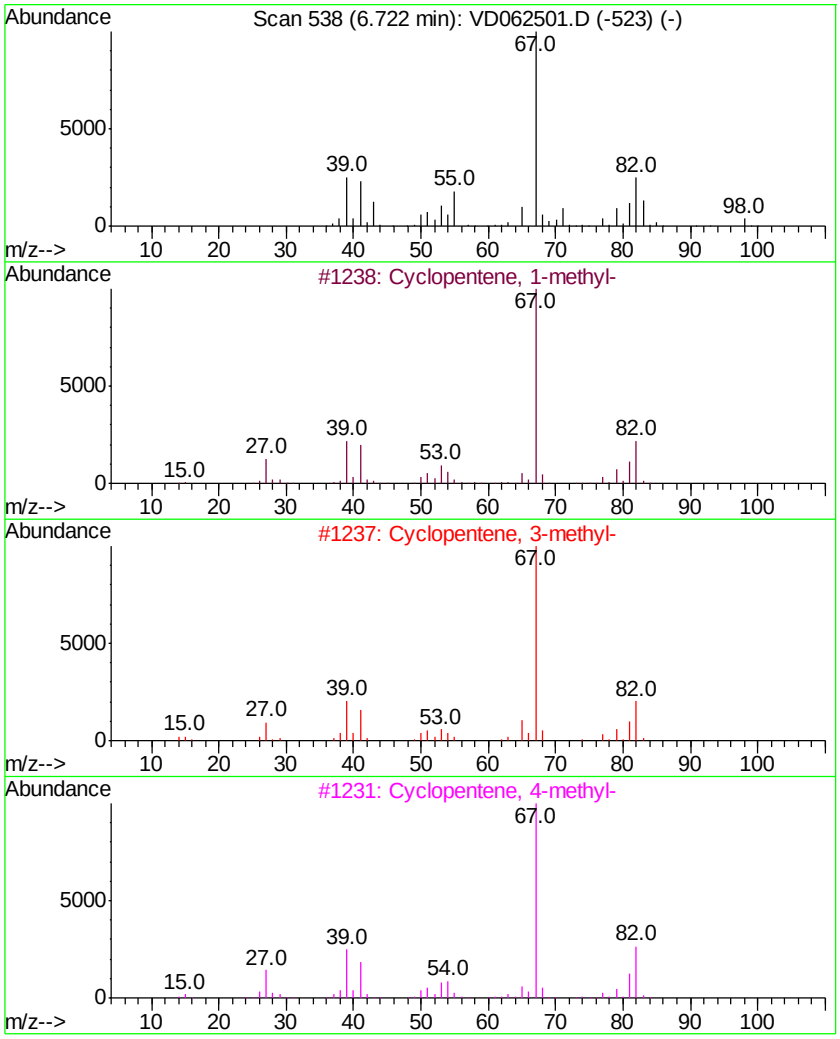
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

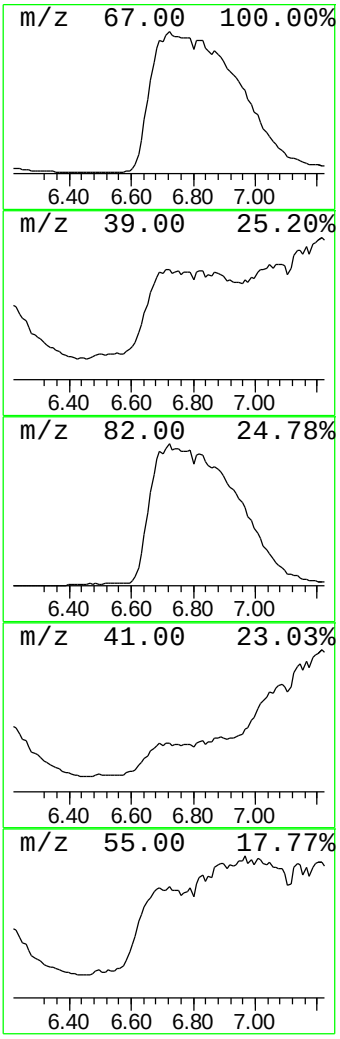
****

Peak Number 7 Cyclopentene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	314.95 ug/l	88895600	Pentafluorobenzene	7.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	83
2	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	81
3	Cyclopentene, 4-methyl-	82	C6H10	001759-81-5	80
4	1,3-Pentadiene, 2-methyl-, (E)-	82	C6H10	000926-54-5	80
5	4-Methyl-1,3-pentadiene	82	C6H10	000926-56-7	80





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

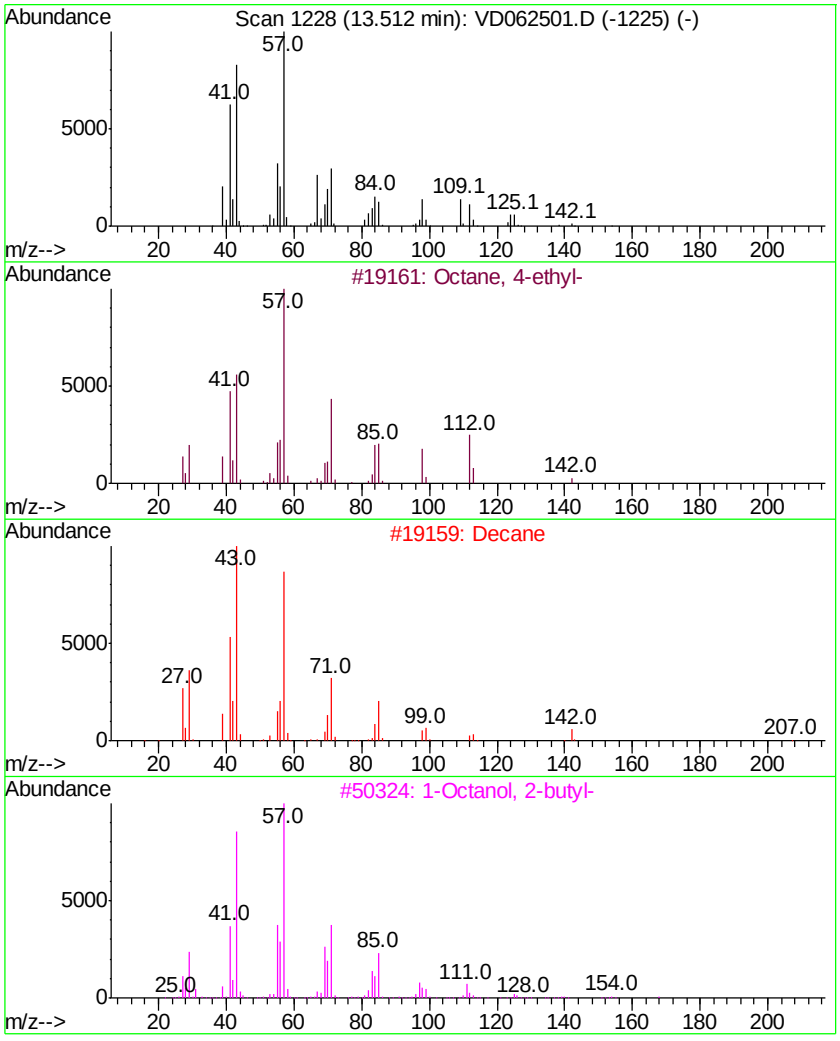
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

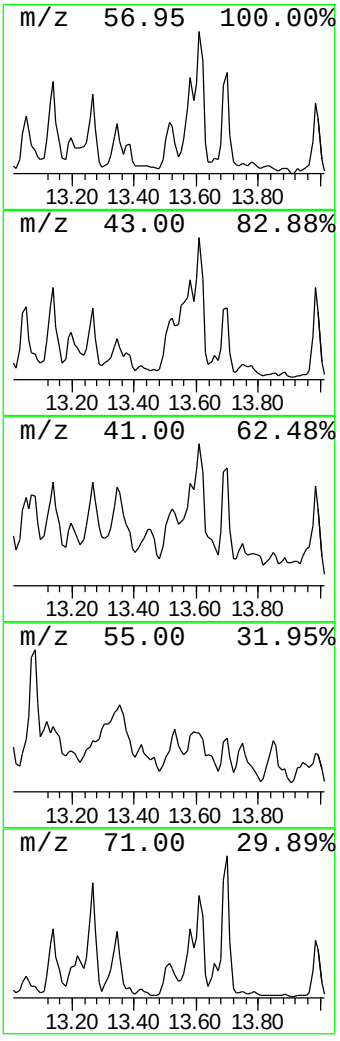
****

Peak Number 8 Octane, 4-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	29.74 ug/l	12722900	1,4-Dichlorobenzene-d4	14.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-ethyl-	142	C10H22	015869-86-0	59
2	Decane	142	C10H22	000124-18-5	43
3	1-Octanol, 2-butyl-	186	C12H26O	003913-02-8	43
4	Octane, 2,7-dimethyl-	142	C10H22	001072-16-8	43
5	2-Nonen-1-ol, (E)-	142	C9H18O	031502-14-4	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

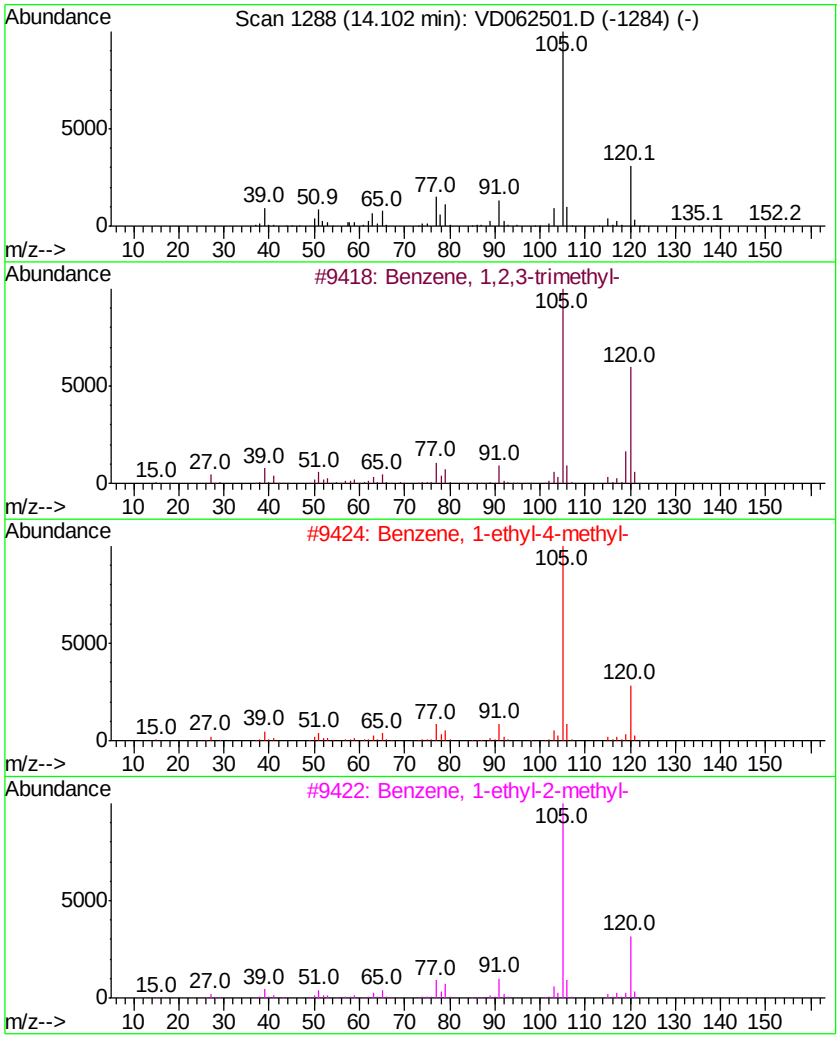
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

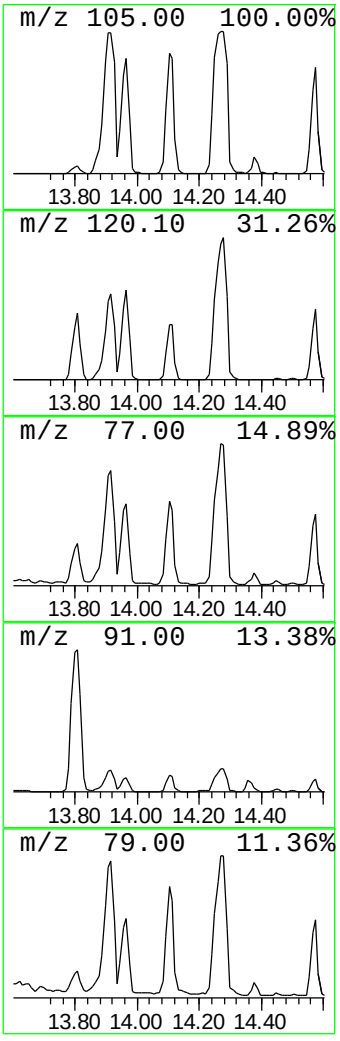
****

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	58.70 ug/l	25112600	1,4-Dichlorobenzene-d4	14.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Mesitylene	120	C9H12	000108-67-8	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

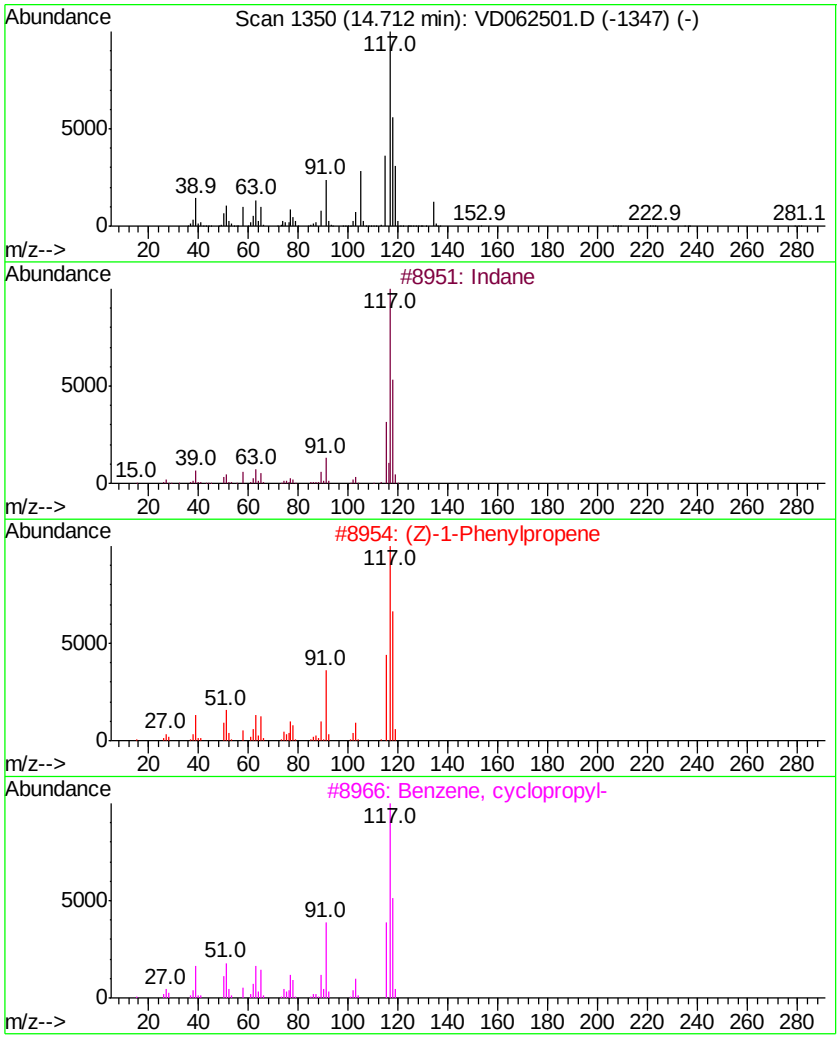
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

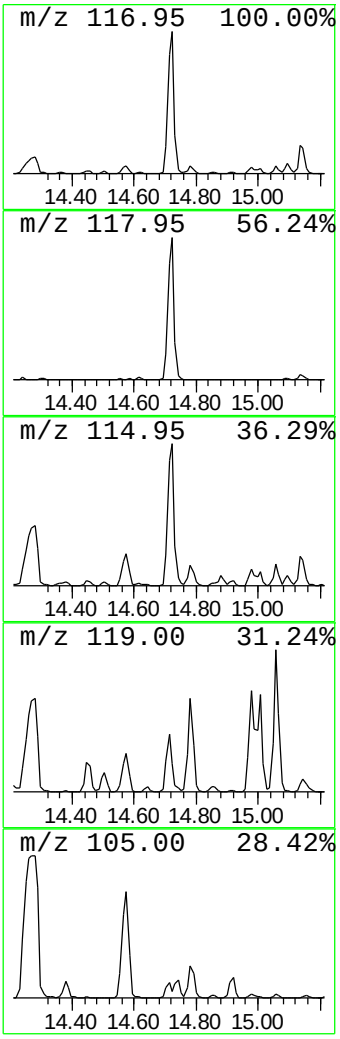
****

Peak Number 10 Indane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	42.63 ug/l	18238100	1,4-Dichlorobenzene-d4	14.53

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	70
2	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	70
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	70
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD052219\
Data File : VD062501.D
Acq On : 22 May 2019 14:07
Operator : VA/AP
Sample : K2996-01
Misc : 6.29g/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-1(9.5-10.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methyl-	2.34	708.3	ug/l	199916000	1	7.13	14112900	50.0
Pentane	2.63	668.6	ug/l	188719000	1	7.13	14112900	50.0
Cyclopropane, 1,2...	2.97	228.9	ug/l	64620000	1	7.13	14112900	50.0
Pentane, 2-methyl-	3.88	742.0	ug/l	209447000	1	7.13	14112900	50.0
n-Hexane	4.71	73.5	ug/l	20745400	1	7.13	14112900	50.0
2-Pentene, 3-meth...	5.59	134.5	ug/l	37967400	1	7.13	14112900	50.0
Cyclopentene, 1-m...	6.72	314.9	ug/l	88895600	1	7.13	14112900	50.0
Octane, 4-ethyl-	13.51	29.7	ug/l	12722900	4	14.53	21391700	50.0
Benzene, 1,2,3-tr...	14.10	58.7	ug/l	25112600	4	14.53	21391700	50.0
Indane	14.71	42.6	ug/l	18238100	4	14.53	21391700	50.0