LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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	1.835	37	42	76	rVB	1133921	4235232	2.53%	0.366%
2	2.347	87	94	116	rBV	13881470	130543356	77.97%	11.270%
3	2.623	116	122	123	rBV	12289588	27922697	16.68%	2.411%
4	2.987	152	159	162	rBV	6764280	26932012	16.09%	2.325%
5	3.853	222	247	248	rBV	25629299	144526487	86.32%	12.477%
6	4.276	278	290	309	rBV	14442035	167430515	100.00%	14.455%
7	4.738	326	337	340	rBV	13978086	79021991	47.20%	6.822%
8	5.083	367	372	376	rBV2	3405004	13656731	8.16%	1.179%
9	5.575	413	422	423	rBV	6732823	23446468	14.00%	2.024%
10	6.677	523	534	535	rBV	12129919	42374757	25.31%	3.658%
11	8.990	763	769	770	rBV2	7481912	20812195	12.43%	1.797%
12	12.591	1128	1135	1139	rBV4	12288798	51788250	30.93%	4.471%
13	12.700	1144	1146	1148	rVB2	8524074	13162823	7.86%	1.136%
14	12.808	1156	1157	1165	rVB6	14402668	46640674	27.86%	4.027%
15	12.926	1165	1169	1173	rVB3	7051952	18692942	11.16%	1.614%
16	12.995	1173	1176	1178	rBV3	4351883	9461782	5.65%	0.817%
17	13.044	1178	1181	1186	rBV5	7058037	22442059	13.40%	1.937%
18	13.211	1195	1198	1200	rBV3	3751283	6944291	4.15%	0.600%
19	13.270	1200	1204	1208	rVV4	7411059	17625029	10.53%	1.522%
20	13.349	1209	1212	1217	rVB7	7407721	21929383	13.10%	1.893%
21	13.448	1217	1222	1226	rVB	16728309	44577811	26.62%	3.849%
22	13.507	1226	1228	1232	rBV4	5600612	12527903	7.48%	1.082%
23	13.585	1233	1236	1237	rBV2	4069816	6526834	3.90%	0.563%
24	13.694	1244	1247	1249	rVB	9606815	13868072	8.28%	1.197%
25	13.743	1249	1252	1254	rVV	5582236	8502192	5.08%	0.734%
26	13.802	1254	1258	1261	rVV	14831083	38218141	22.83%	3.299%
27	13.900	1265	1268	1271	rVV	9675551	16656356	9.95%	1.438%
28	13.950	1271	1273	1280	rVB2	10702098	22455585	13.41%	1.939%
29	14.097	1285	1288	1291	rBV	11015311	17869125	10.67%	1.543%
30	14.245	1300	1303	1309	rVB2	2888689	6535496	3.90%	0.564%
31	14.373	1309	1316	1318	rBV3	3524961	7756038	4.63%	0.670%
32	14.442	1318	1323	1325	rVB3	2121849	3520548	2.10%	0.304%
33	14.491	1325	1328	1330	rBV	1181792	1911792	1.14%	0.165%
34	14.560	1332	1335	1340	rVB3	1475378	3091603	1.85%	0.267%

LSC Area Percent Report

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Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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	14.648	1340	1344	1347	rVB3	1178439	2661244	1.59%	0.230%
36	14.707	1347	1350	1354	rBV	13531151	21205469	12.67%	1.831%
37	14.776	1354	1357	1362	rVB2	7929473	13198930	7.88%	1.139%
38	14.914	1368	1371	1375	rVB	2544813	3476580	2.08%	0.300%
39	14.973	1375	1377	1380	rVB	1876589	1977271	1.18%	0.171%
40	15.052	1382	1385	1387	rBV	6394991	7461649	4.46%	0.644%
41	15.130	1391	1393	1398	rVB2	4226867	6096618	3.64%	0.526%
42	15.337	1409	1414	1416	rBV	2763131	3423539	2.04%	0.296%
43	15.367	1416	1417	1420	rVB	1790684	2273785	1.36%	0.196%
44	15.662	1445	1447	1452	rVV	2108469	2932723	1.75%	0.253%

Sum of corrected areas: 1158314978

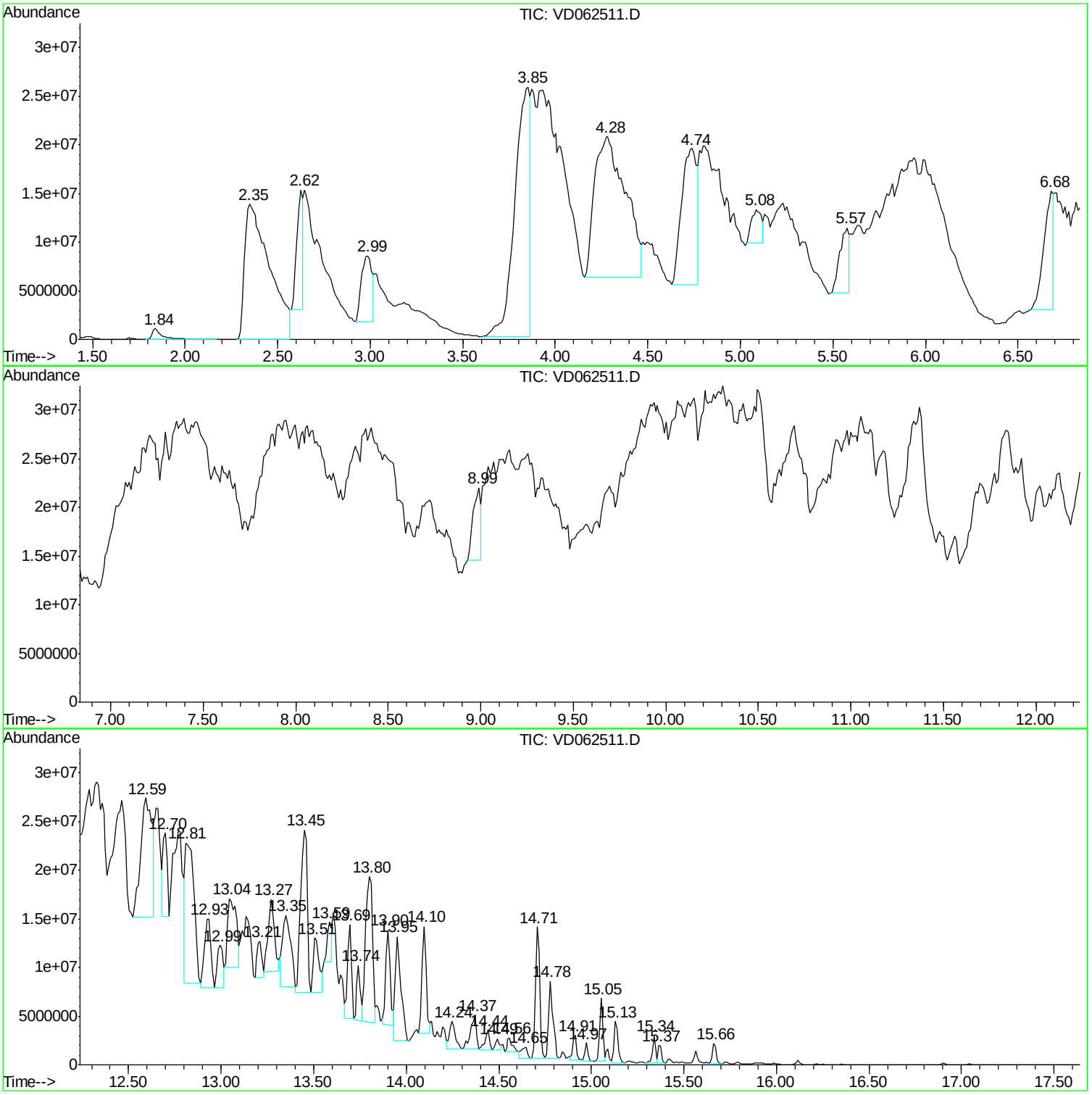
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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 : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

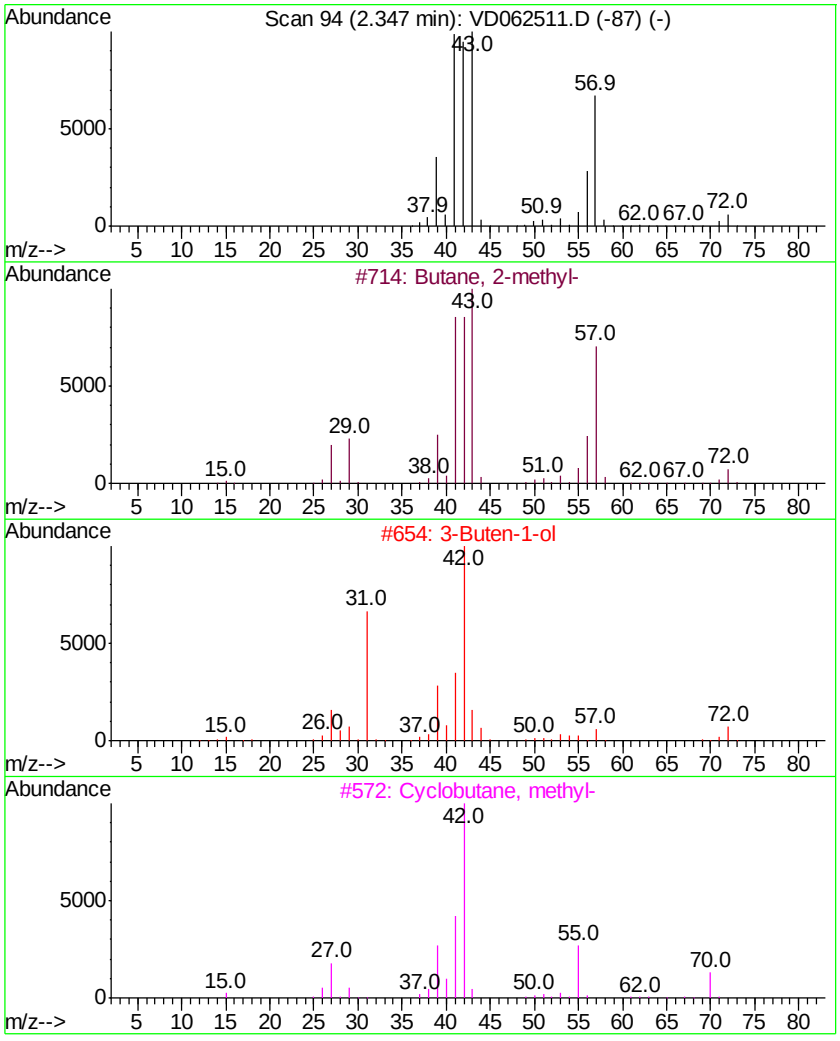
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

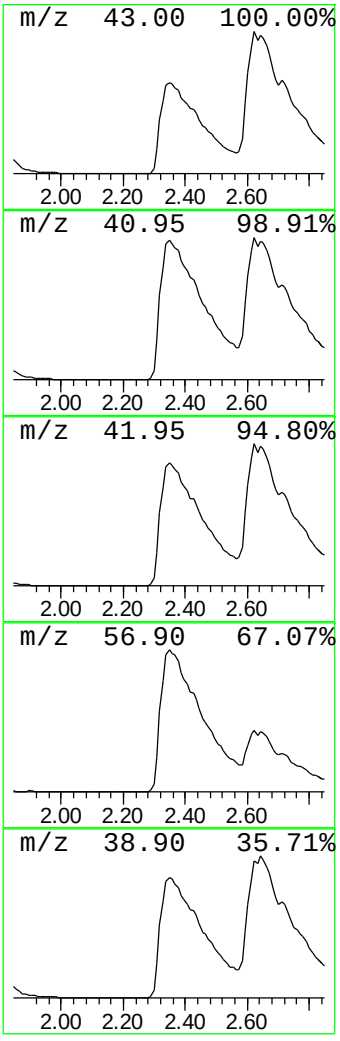
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.35	154.03 ug/l	130543000	Pentafluorobenzene	7.07

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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

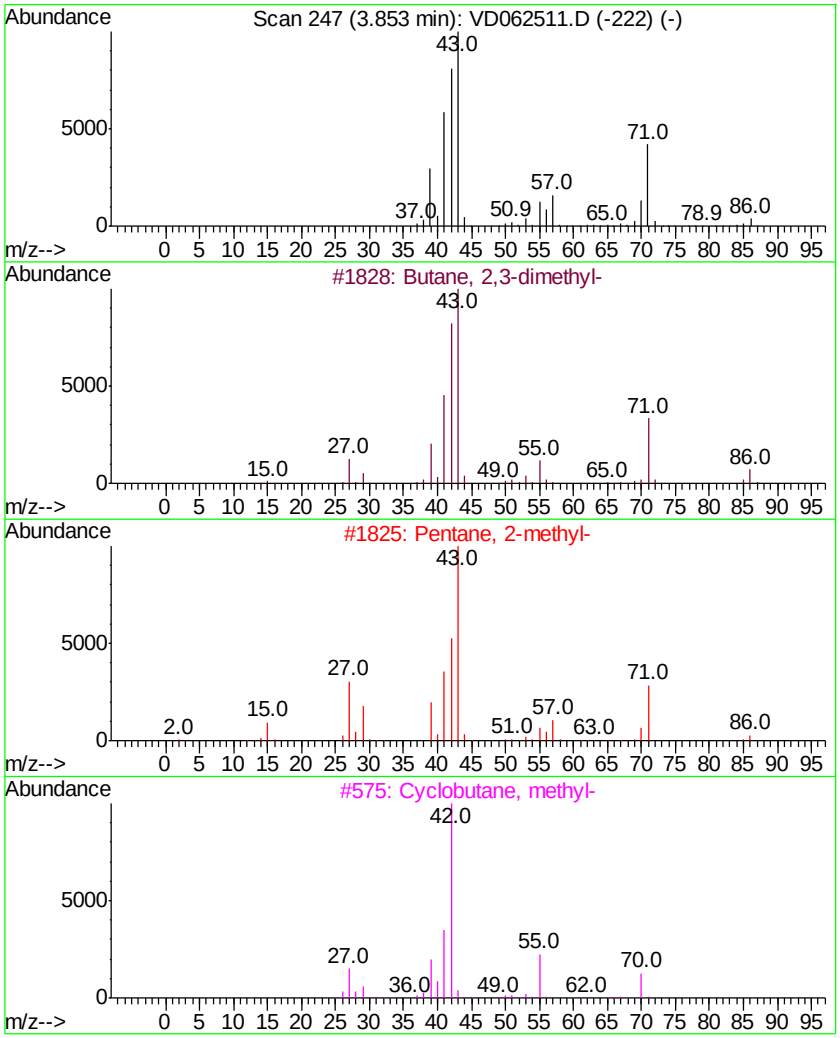
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

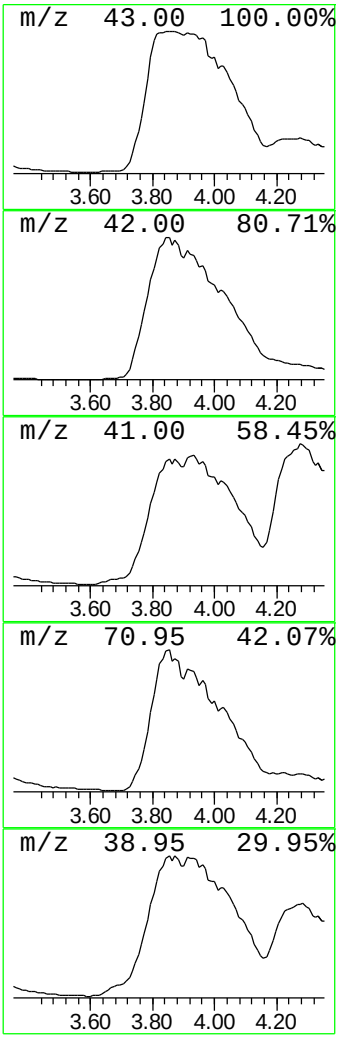
****

Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.85	170.53 ug/l	144526000	Pentafluorobenzene	7.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	83
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	43
4	Pentane	72	C5H12	000109-66-0	38
5	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	37





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

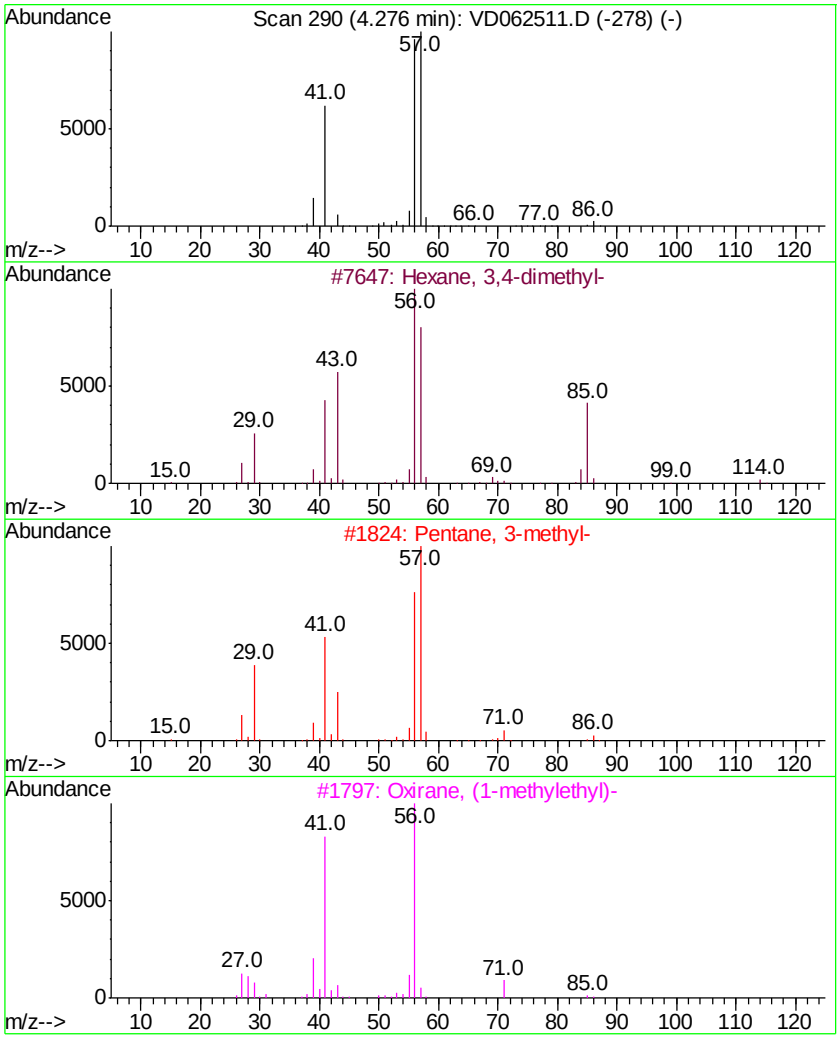
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

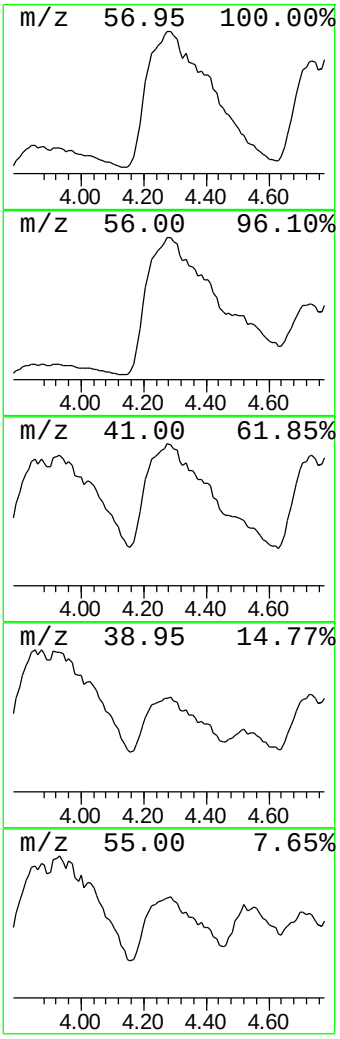
****

Peak Number 3 Hexane, 3,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.28	197.56 ug/l	167431000	Pentafluorobenzene	7.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	64
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	50
3	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	38
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	33
5	Butane, 2-bromo-	136	C4H9Br	000078-76-2	12





Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

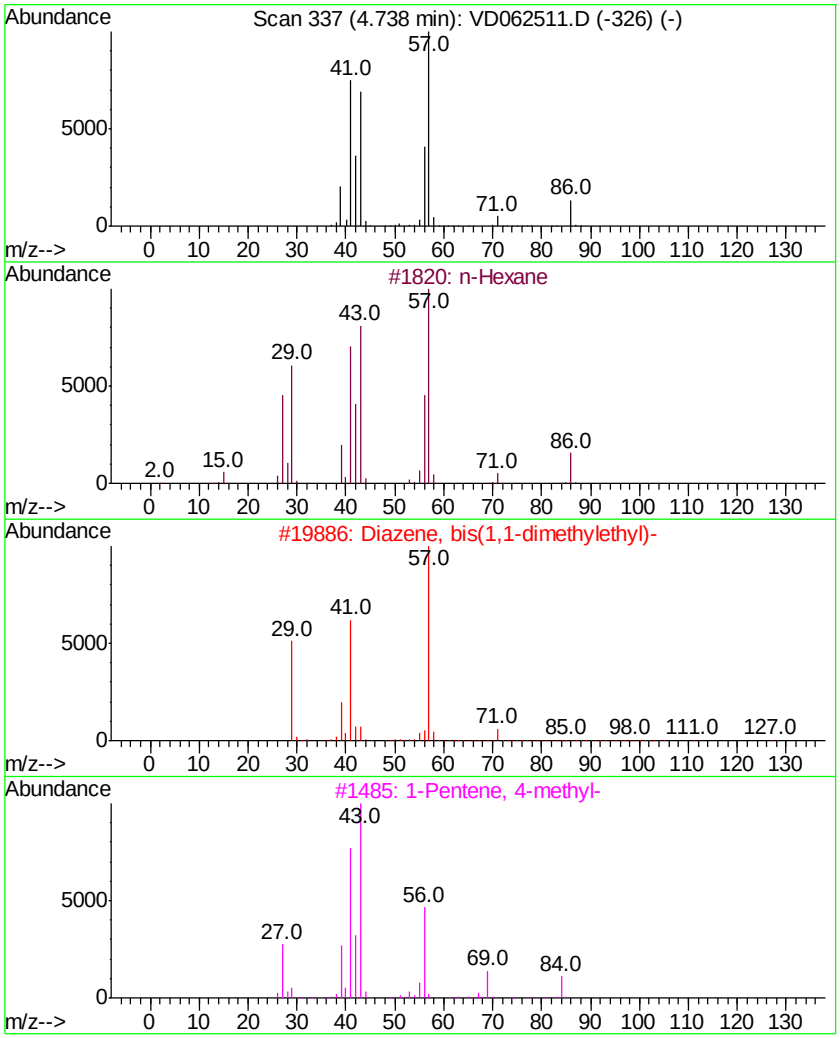
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

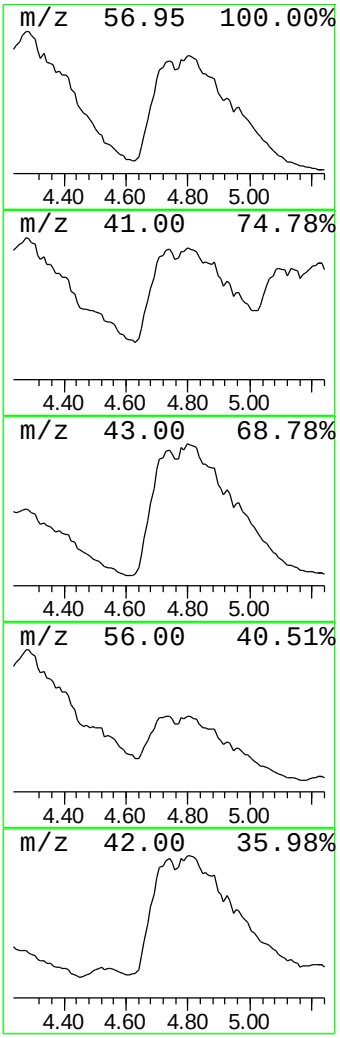
****

Peak Number 4 n-Hexane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.74	93.24 ug/l	79022000	Pentafluorobenzene	7.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	90
2	Diazene, bis(1,1-dimethylethyl)-	142	C8H18N2	000927-83-3	35
3	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	33
4	Decane, 2,2-dimethyl-	170	C12H26	017302-37-3	25
5	2-Pentanone	86	C5H10O	000107-87-9	14





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

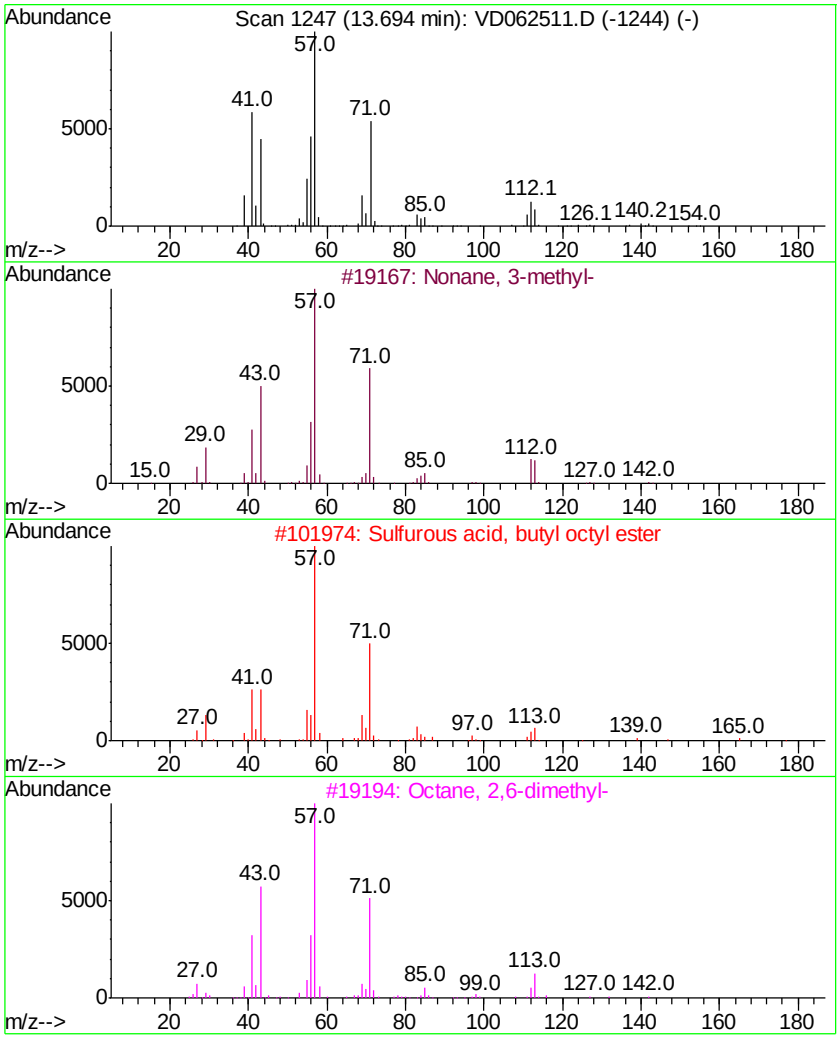
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

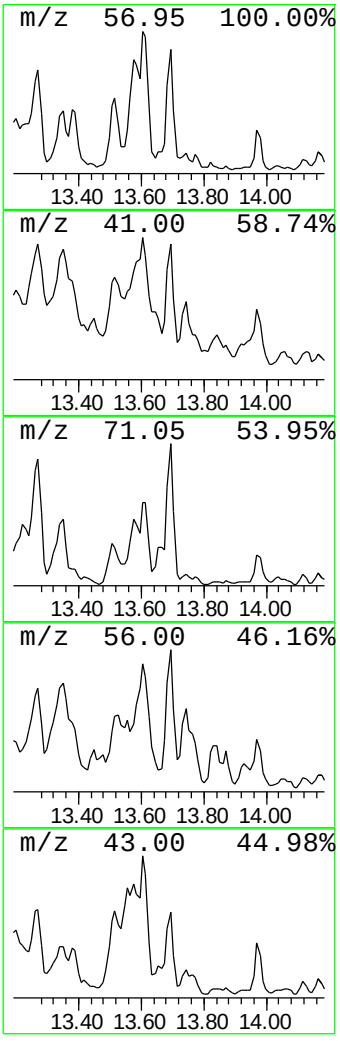
****

Peak Number 5 Nonane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	362.70 ug/l	13868100	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	70
2	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	64
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	52
5	Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	47





Library Search Compound Report

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Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

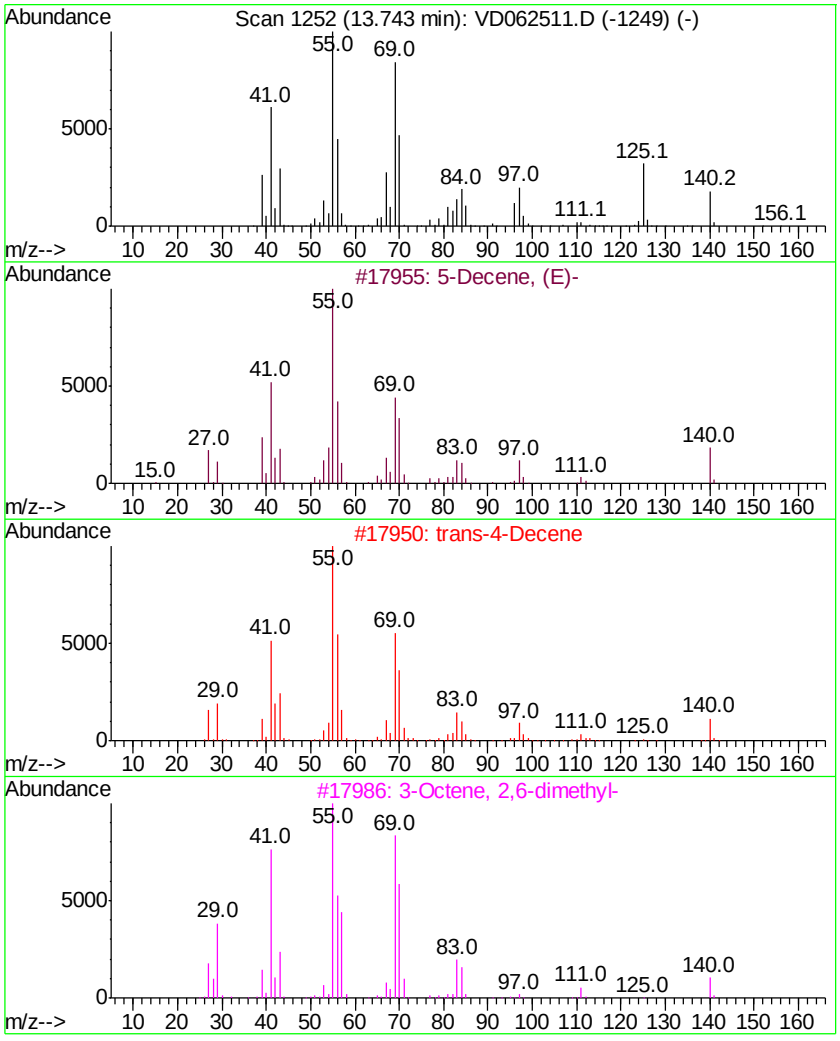
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

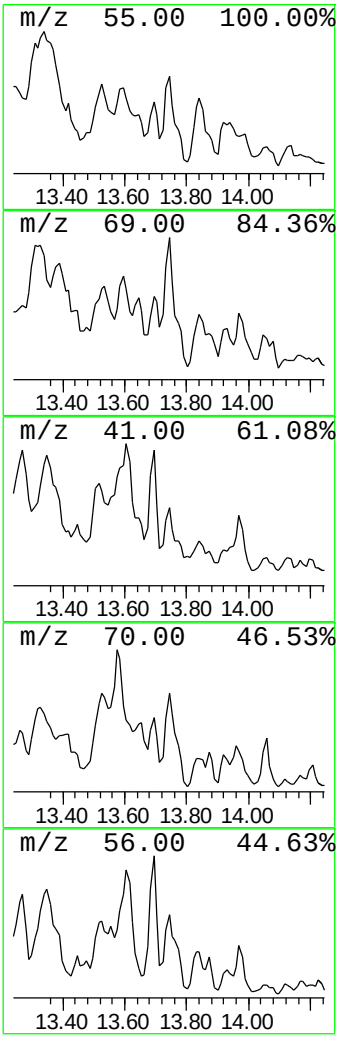
****

Peak Number 6 5-Decene, (E)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.74	222.36 ug/l	8502190	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Decene, (E)-	140	C10H20	007433-56-9	74
2	trans-4-Decene	140	C10H20	019398-89-1	53
3	3-Octene, 2,6-dimethyl-	140	C10H20	006874-28-8	50
4	Cyclopropane, 1,2-dimethyl-1-pen...	140	C10H20	062238-04-4	50
5	3-Octene, 4-ethyl-	140	C10H20	053966-51-1	49





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Sample : K2996-10
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ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

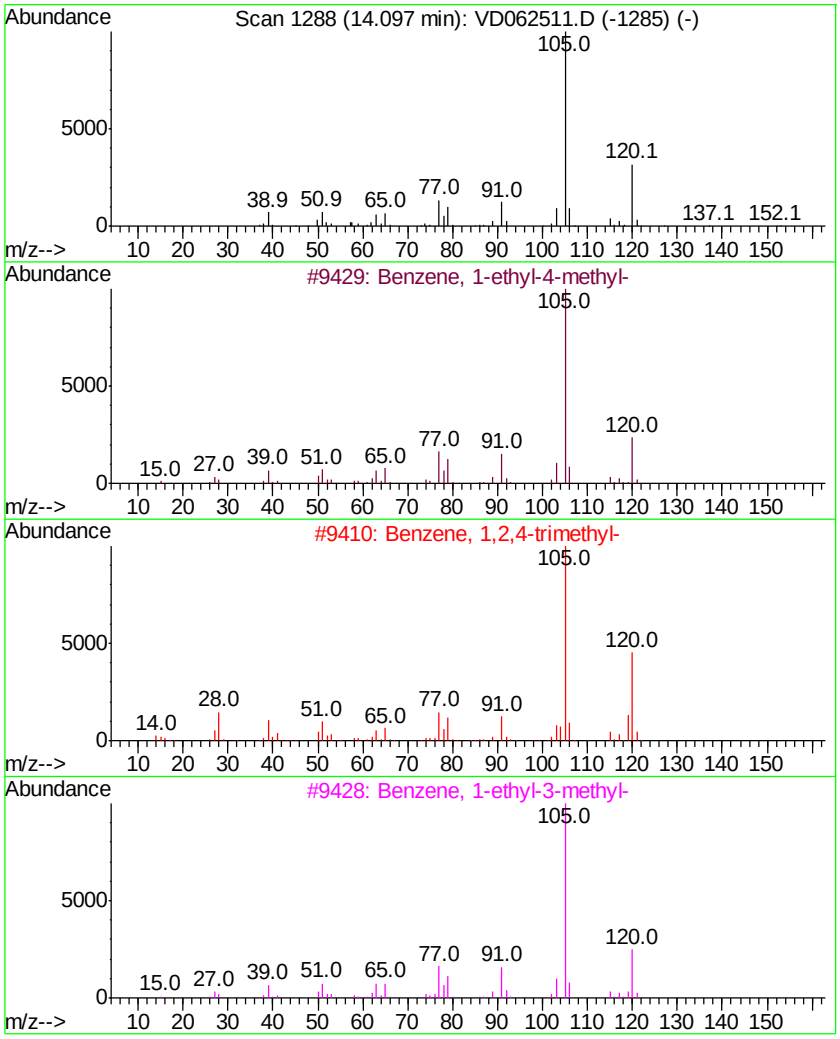
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

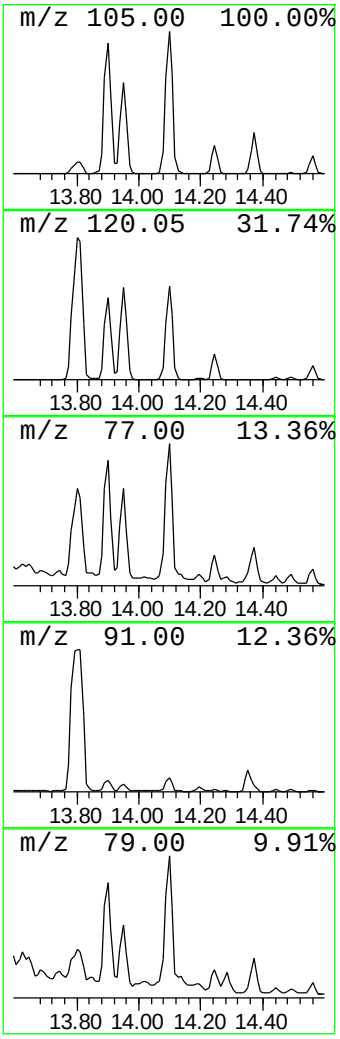
****

Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	467.34 ug/l	17869100	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

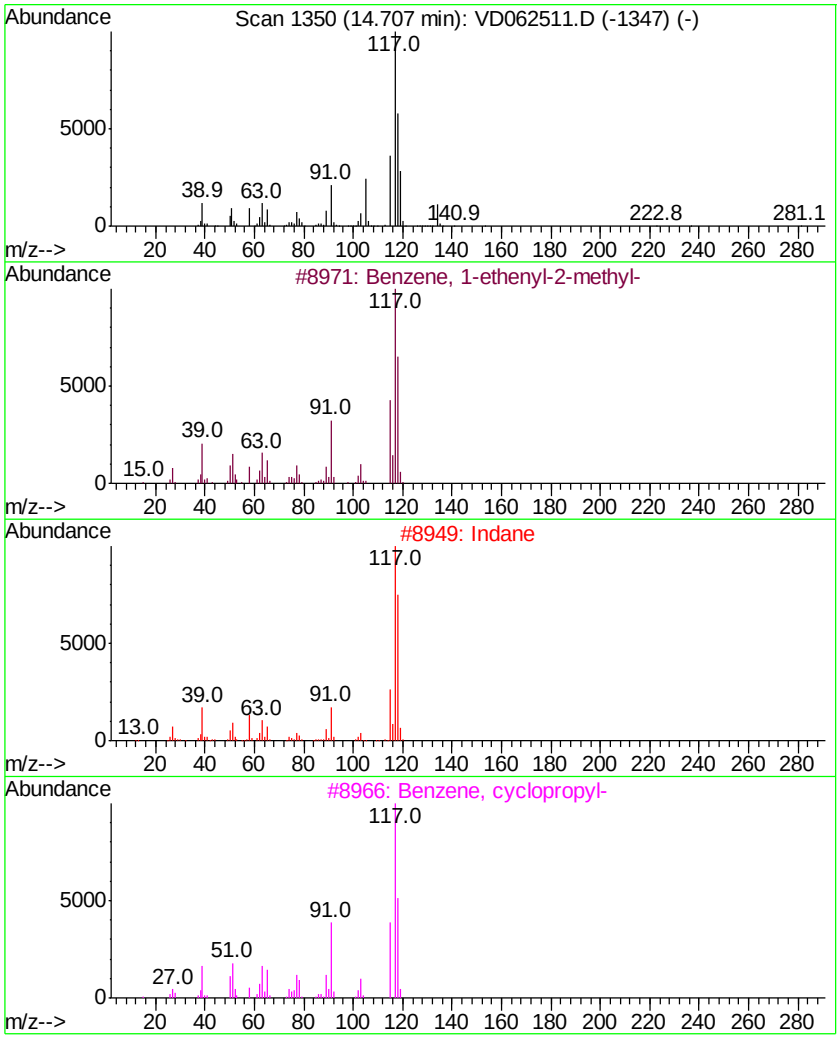
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

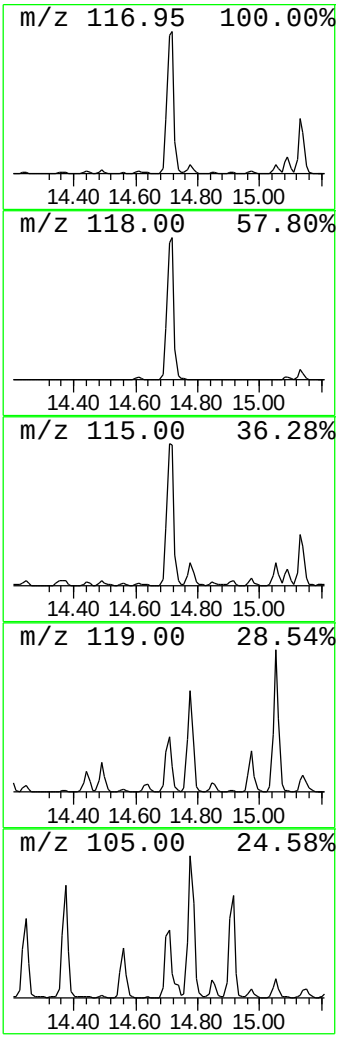
****

Peak Number 8 Benzene, 1-ethenyl-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	554.60 ug/l	21205500	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	70
2	Indane	118	C9H10	000496-11-7	70
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

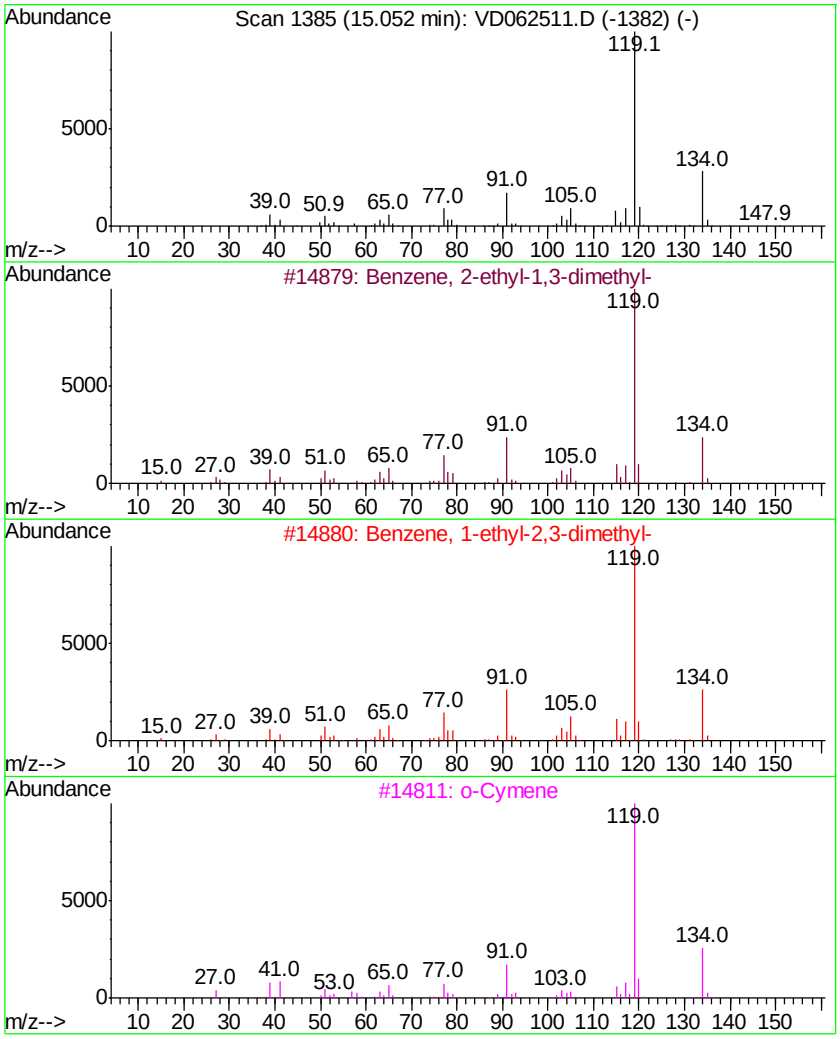
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

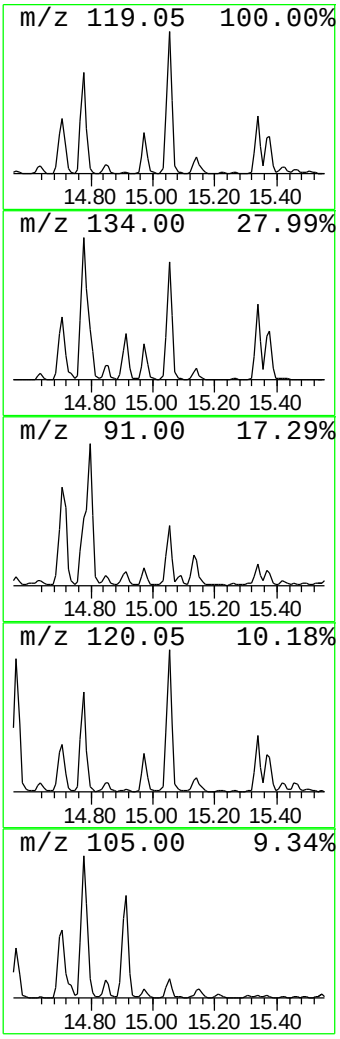
****

Peak Number 9 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	195.15 ug/l	7461650	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3	o-Cymene	134	C10H14	000527-84-4	94
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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

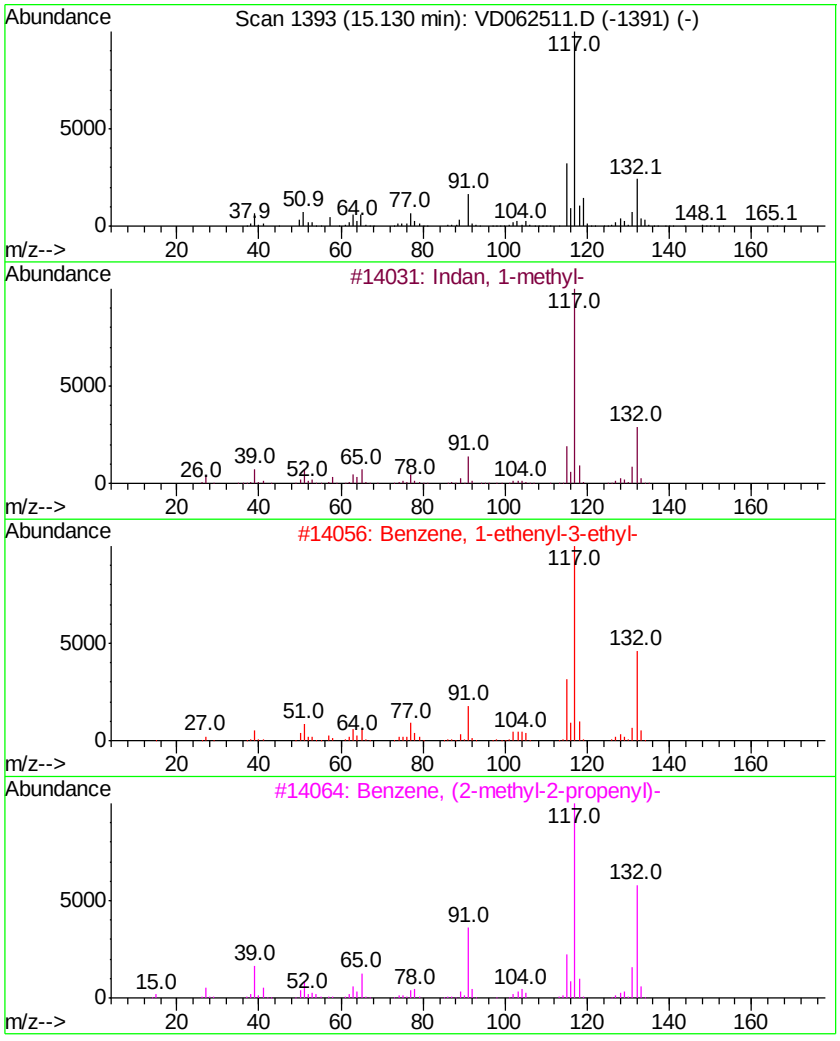
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

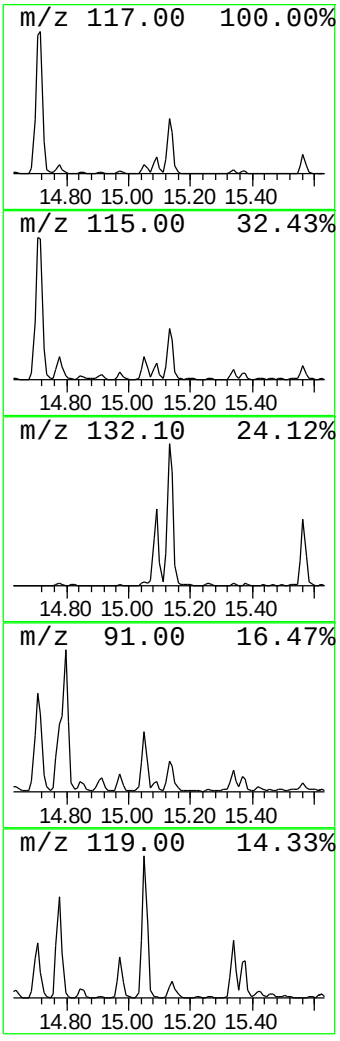
****

Peak Number 10 Indan, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	159.45 ug/l	6096620	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
3	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	87
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	87
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD052219\
Data File : VD062511.D
Acq On : 22 May 2019 19:02
Operator : VA/AP
Sample : K2996-10
Misc : 5.45g/5ml/MSVOA_D/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-9(4.5-5.0)

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-	2.35	154.0	ug/l	130543000	1	7.07	42374800	50.0
Butane, 2,3-dimet...	3.85	170.5	ug/l	144526000	1	7.07	42374800	50.0
Hexane, 3,4-dimet...	4.28	197.6	ug/l	167431000	1	7.07	42374800	50.0
n-Hexane	4.74	93.2	ug/l	79022000	1	7.07	42374800	50.0
Nonane, 3-methyl-	13.69	362.7	ug/l	13868100	4	14.52	1911790	50.0
5-Decene, (E)-	13.74	222.4	ug/l	8502190	4	14.52	1911790	50.0
Benzene, 1-ethyl-...	14.10	467.3	ug/l	17869100	4	14.52	1911790	50.0
Benzene, 1-etheny...	14.71	554.6	ug/l	21205500	4	14.52	1911790	50.0
Benzene, 2-ethyl-...	15.05	195.2	ug/l	7461650	4	14.52	1911790	50.0
Indan, 1-methyl-	15.13	159.4	ug/l	6096620	4	14.52	1911790	50.0