LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

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_N\METHODS\82N031219W.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	2.809	310	322	342	rVB	544951	1106836	7.10%	0.987%
2	3.786	616	626	648	rVB4	69268	208703	1.34%	0.186%
3	4.516	832	853	868	rBV2	218775	815730	5.23%	0.728%
4	5.047	991	1018	1047	rBV4	244306	920754	5.91%	0.821%
5	6.516	1452	1475	1491	rBV3	241485	771350	4.95%	0.688%
6	6.622	1492	1508	1528	rVB3	404223	1230844	7.89%	1.098%
7	7.387	1734	1746	1766	rVB5	75693	227510	1.46%	0.203%
8	7.593	1786	1810	1820	rBV	907001	2297838	14.74%	2.050%
9	7.664	1821	1832	1844	rVV	1489823	3691218	23.67%	3.292%
10	7.741	1845	1856	1883	rVB3	928102	2526301	16.20%	2.253%
11	8.034	1930	1947	1968	rBV3	1565575	4057526	26.02%	3.619%
12	8.204	1972	2000	2020	rVV	1908296	5548265	35.58%	4.949%
13	8.297	2023	2029	2049	rVB4	119189	281839	1.81%	0.251%
14	8.587	2103	2119	2142	rBV	2216647	4989143	32.00%	4.450%
15	8.818	2180	2191	2199	rBV	83673	179620	1.15%	0.160%
16	9.046	2246	2262	2266	rBV2	222641	453190	2.91%	0.404%
17	9.140	2284	2291	2304	rVB4	130402	257978	1.65%	0.230%
18	9.220	2305	2316	2326	rBV	130110	265734	1.70%	0.237%
19	9.361	2343	2360	2373	rBV6	65154	165371	1.06%	0.148%
20	9.519	2396	2409	2429	rVB	1340937	2693876	17.28%	2.403%
21	9.651	2430	2450	2478	rVV	1771546	4001369	25.66%	3.569%
22	9.844	2499	2510	2522	rBV5	78588	158302	1.02%	0.141%
23	9.969	2539	2549	2556	rBV2	82452	157485	1.01%	0.140%
24	10.021	2556	2565	2574	rVV3	155012	292826	1.88%	0.261%
25	10.091	2574	2587	2630	rVV	3469787	7088222	45.46%	6.322%
26	10.519	2708	2720	2739	rVV4	272779	657146	4.21%	0.586%
27	11.406	2983	2996	3018	rBV	3387373	6564589	42.10%	5.855%
28	11.622	3053	3063	3071	rBV	112883	221506	1.42%	0.198%
29	12.249	3246	3258	3290	rVB	3510499	5914139	37.93%	5.275%
30	12.403	3291	3306	3325	rBV	3114757	5497965	35.26%	4.904%
31	12.593	3353	3365	3381	rVB	2624605	4333816	27.79%	3.866%
32	12.892	3449	3458	3473	rVB	122488	205856	1.32%	0.184%
33	13.168	3529	3544	3560	rBV3	617509	1522401	9.76%	1.358%
34	13.345	3586	3599	3619	rBV	3515900	5904569	37.87%	5.267%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

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_N\METHODS\82N031219W.M
Title : SW846 8260

35	13.442	3622	3629	3638	rVB	119858	182717	1.17%	0.163%
36	13.545	3638	3661	3671	rBV	8191046	15592532	100.00%	13.908%
37	13.593	3671	3676	3690	rVB	747005	1156108	7.41%	1.031%
38	13.673	3691	3701	3712	rBV	488975	759150	4.87%	0.677%
39	13.811	3733	3744	3754	rBV3	145163	253875	1.63%	0.226%
40	13.889	3756	3768	3778	rBV	2477643	3820483	24.50%	3.408%
41	13.946	3778	3786	3791	rVV	313759	470210	3.02%	0.419%
42	13.995	3791	3801	3814	rVB2	2511864	4192859	26.89%	3.740%
43	14.210	3851	3868	3881	rBV	1623038	2702670	17.33%	2.411%
44	14.477	3942	3951	3961	rVV2	403845	651486	4.18%	0.581%
45	14.593	3973	3987	3998	rBV3	620474	1250687	8.02%	1.116%
46	14.657	3998	4007	4017	rVB4	157477	277125	1.78%	0.247%
47	14.850	4055	4067	4076	rBV2	330857	628418	4.03%	0.561%
48	14.953	4090	4099	4112	rVB4	350036	727282	4.66%	0.649%
49	15.133	4143	4155	4168	rVB	1699443	2991784	19.19%	2.669%
50	15.419	4233	4244	4254	rBV2	117783	219508	1.41%	0.196%
51	15.699	4321	4331	4342	rBV	140811	253319	1.62%	0.226%
52	16.352	4522	4534	4550	rVB	372177	771737	4.95%	0.688%

Sum of corrected areas: 112111767

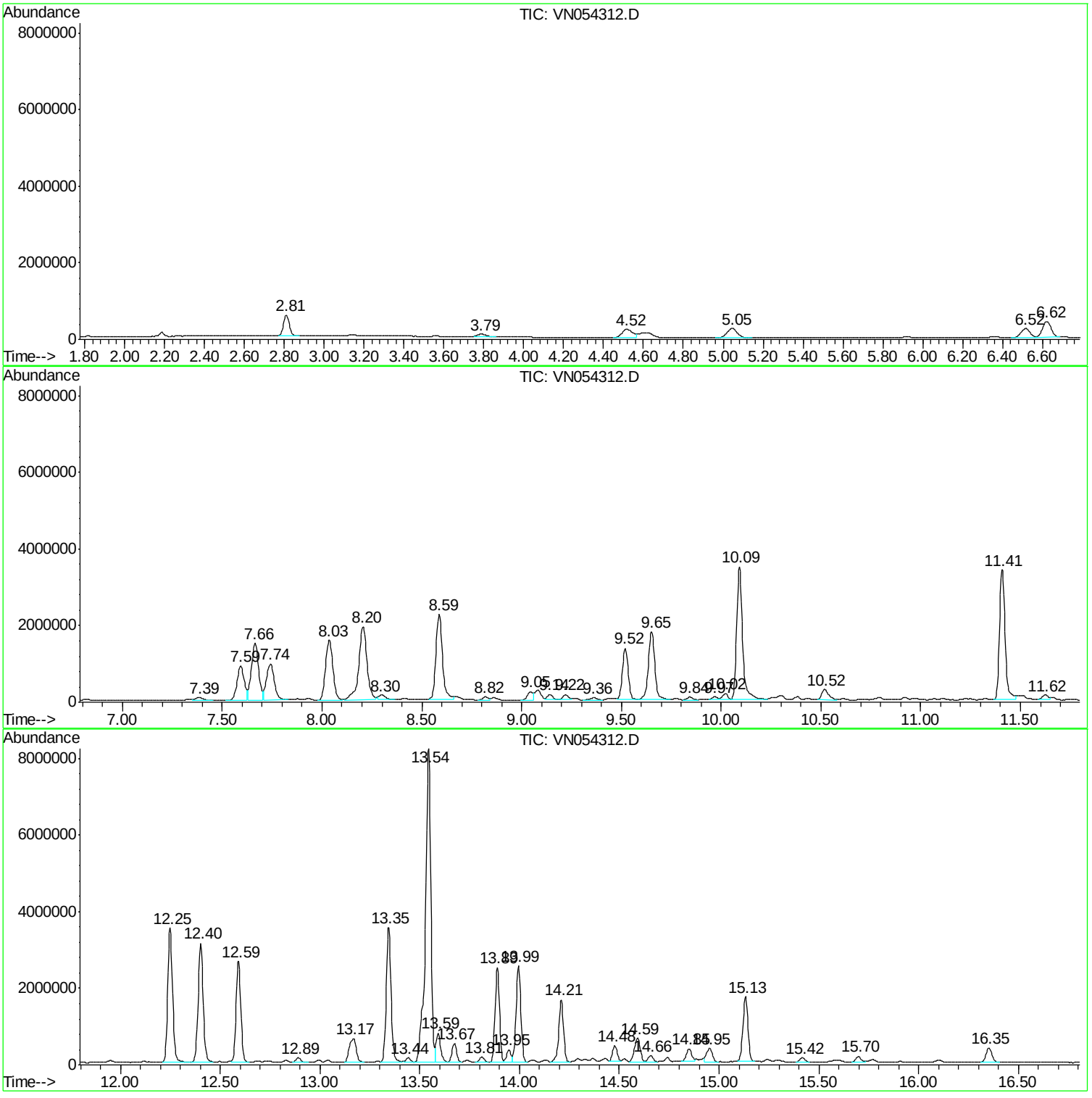
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

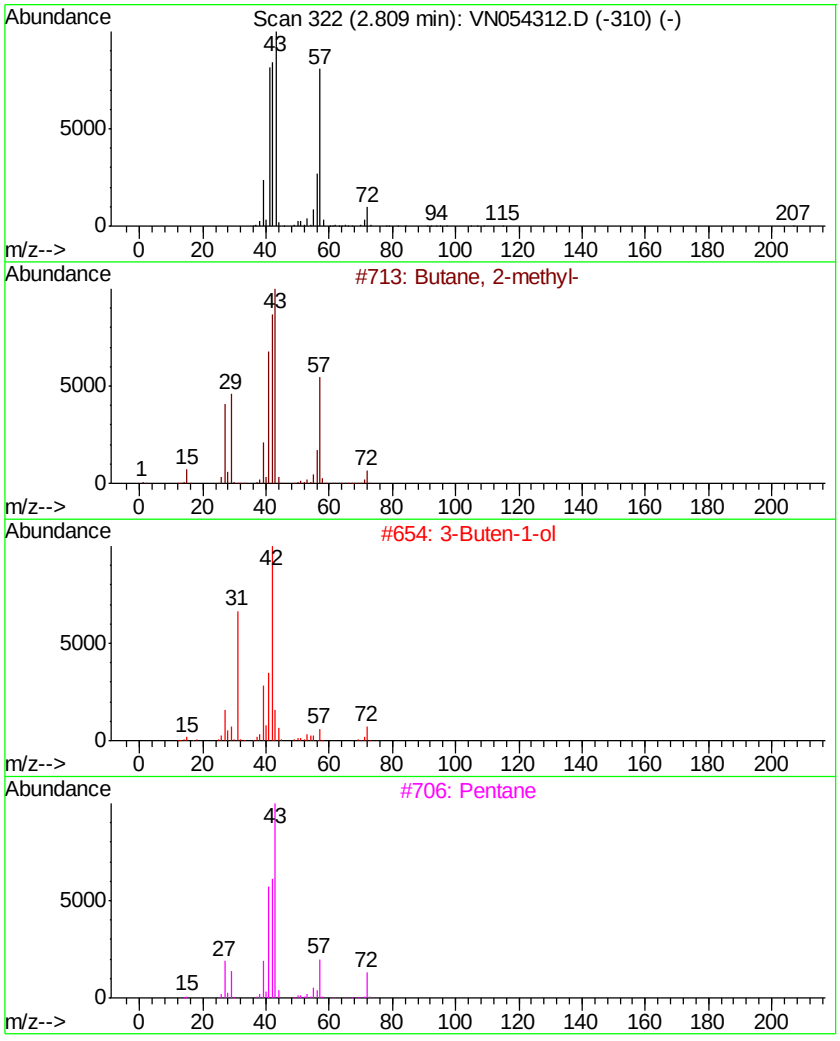
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

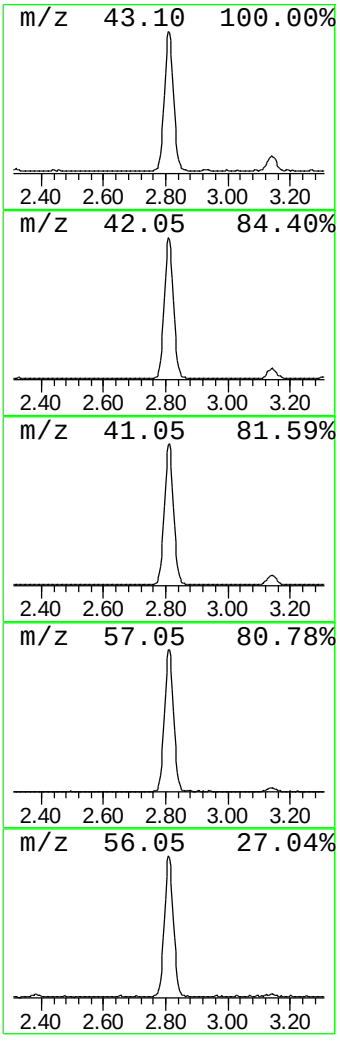
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.81	14.99 ug/l	1106840	Pentafluorobenzene	7.67

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	Pentane	72	C5H12	000109-66-0	37
4	1-Butanesulfonyl chloride	156	C4H9ClO2S	002386-60-9	12
5	Butane, 1-isocyano-	83	C5H9N	002769-64-4	10





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

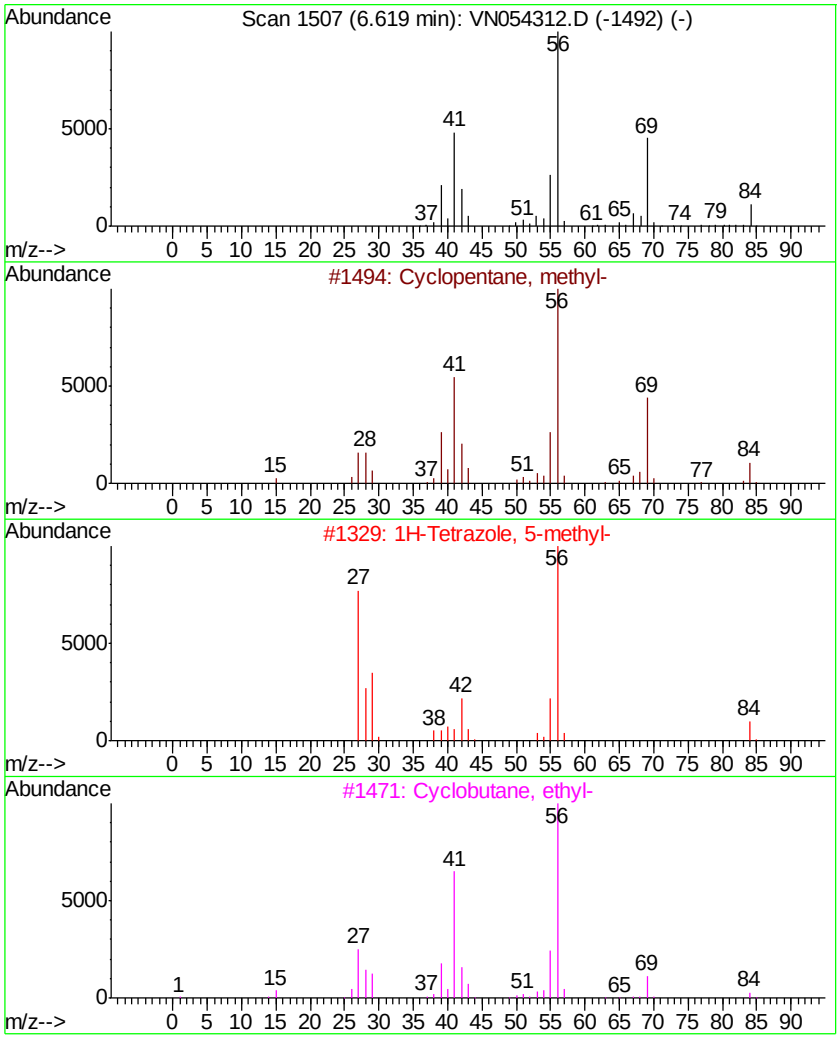
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

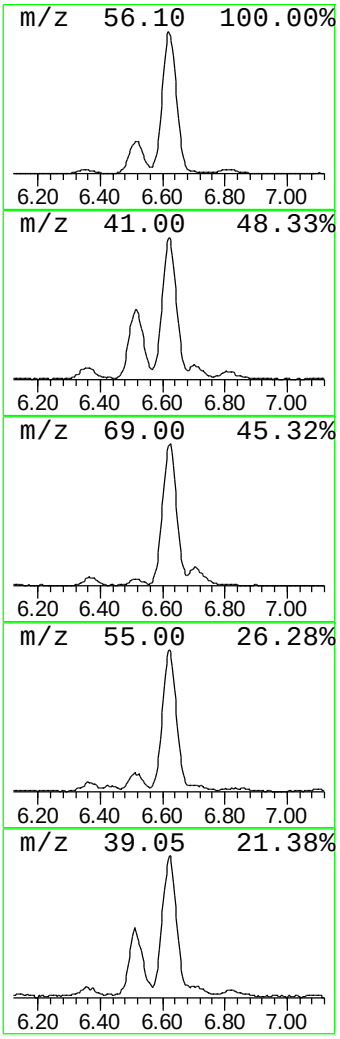
****

Peak Number 2 Cyclopentane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	16.67 ug/l	1230840	Pentafluorobenzene	7.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
4	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	39
5	Aziridine, 1-(2-buten-2-yl)-	97	C6H11N	1000158-95-2	39





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

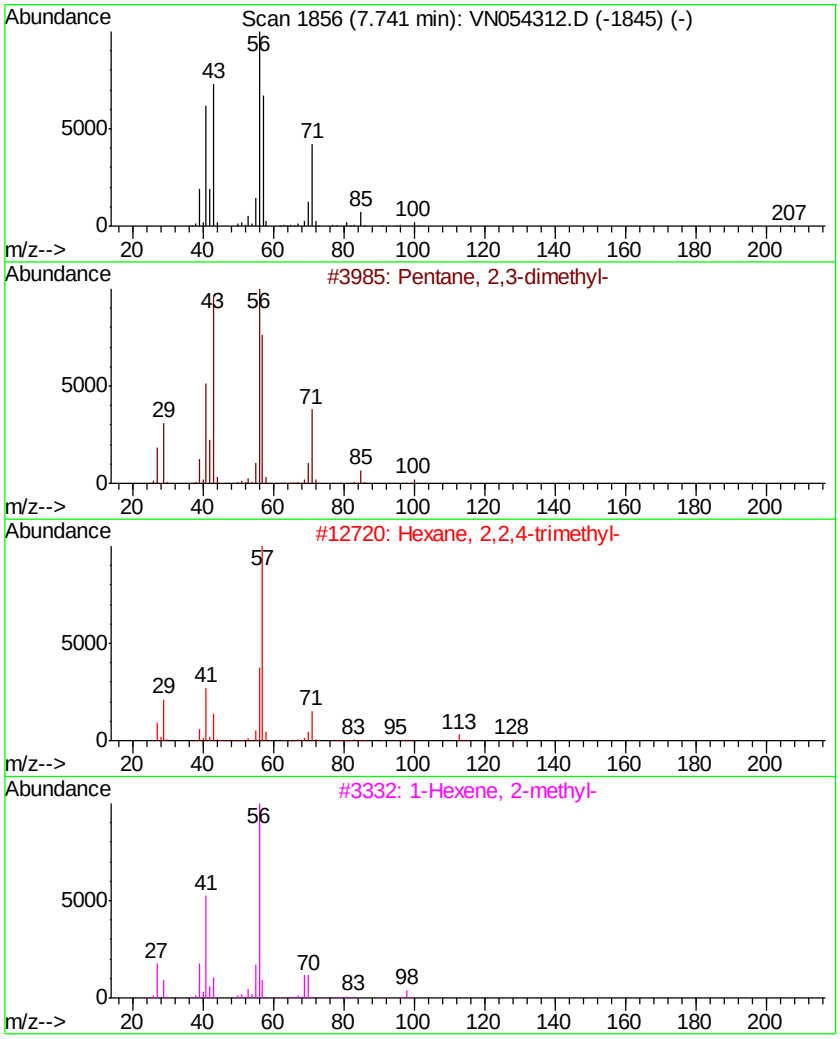
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

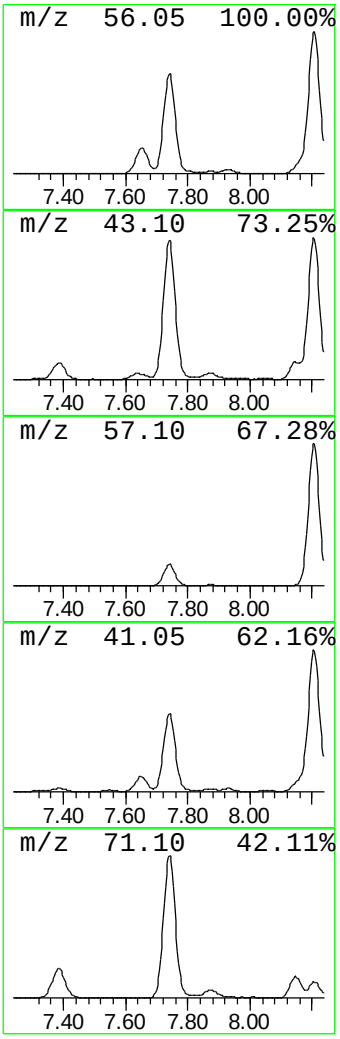
****

Peak Number 3 Pentane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	34.22 ug/l	2526300	Pentafluorobenzene	7.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	42
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	38
4	Oxalic acid, isobutyl pentyl ester	216	C11H20O4	1000309-37-0	38
5	Propane, 1-isocyanato-	85	C4H7NO	000110-78-1	37





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

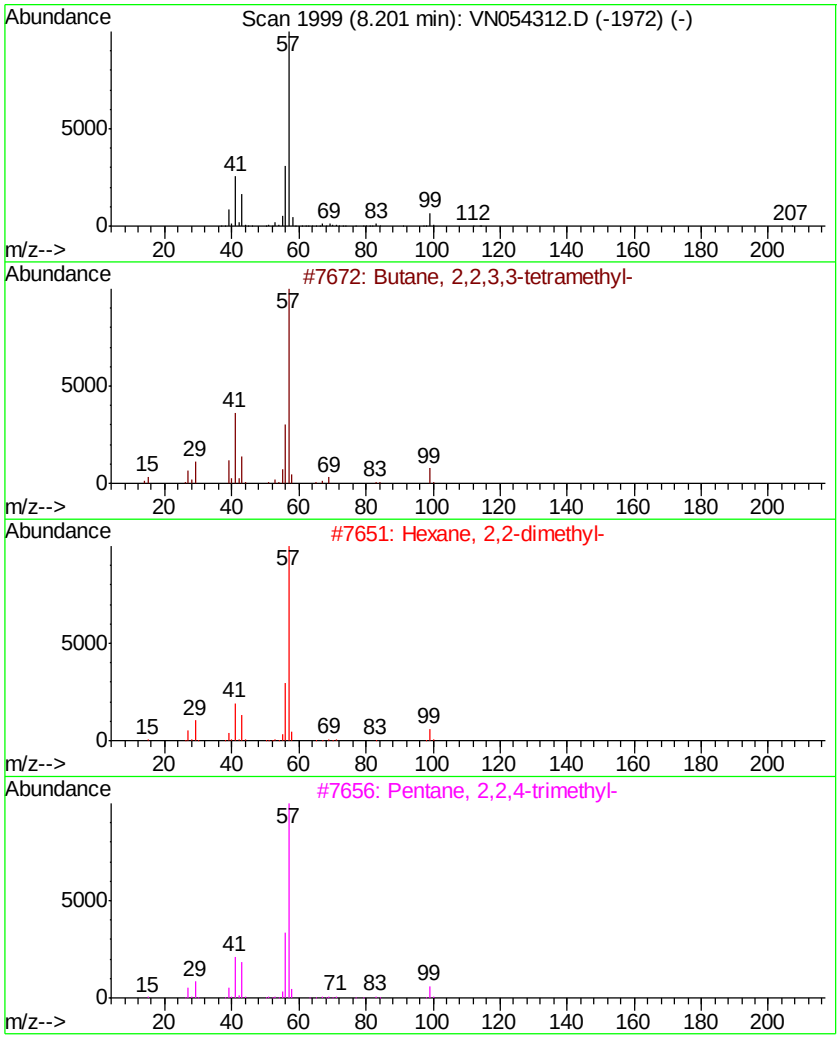
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

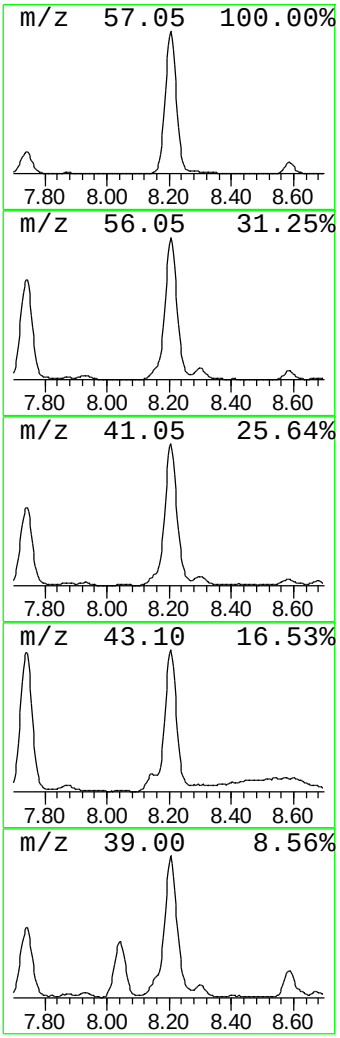
****

Peak Number 4 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.20	55.60 ug/l	5548270	1,4-Difluorobenzene	8.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	64
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

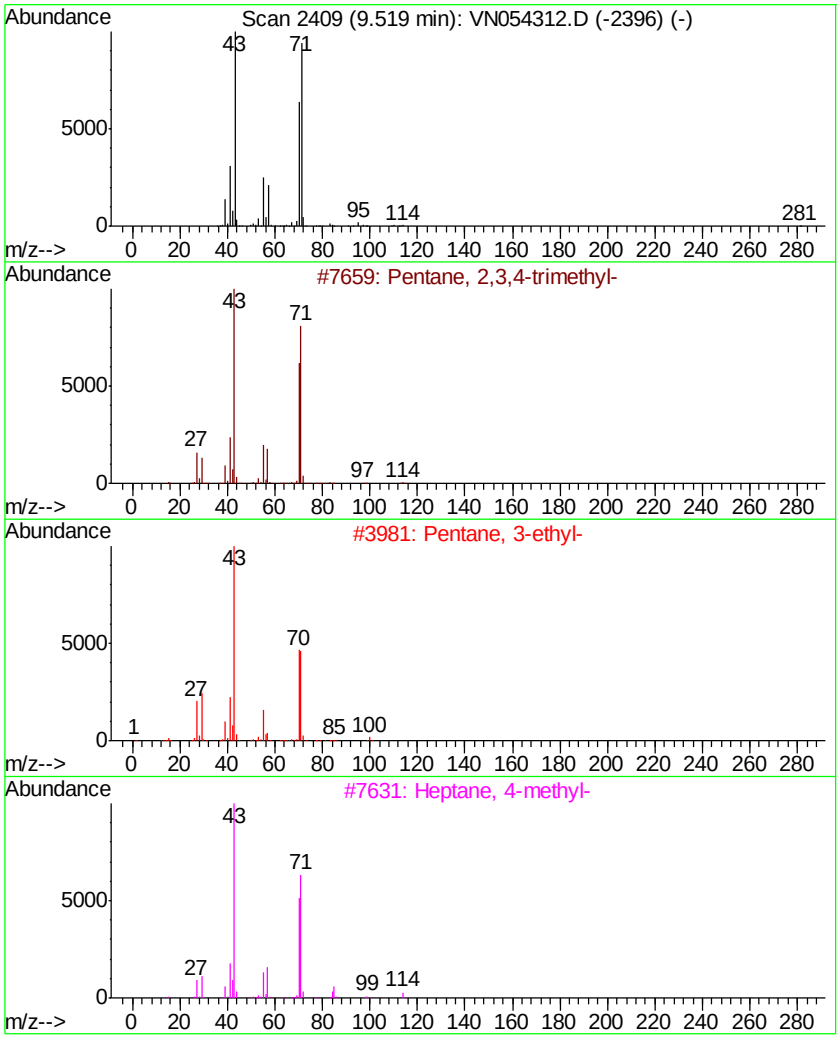
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

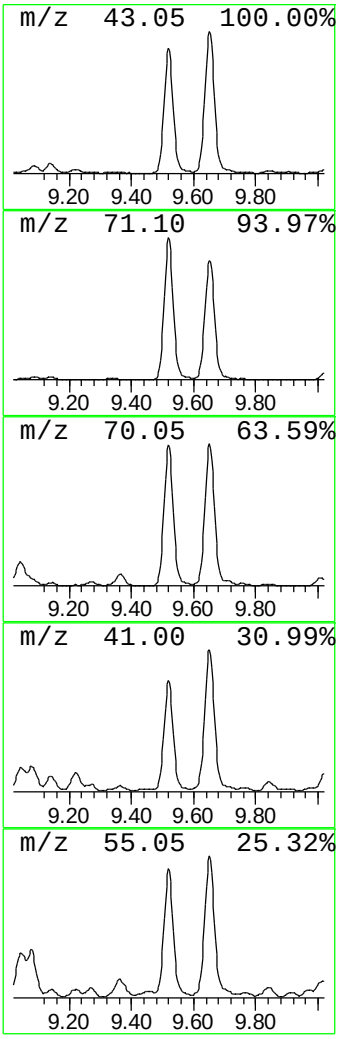
****

Peak Number 5 Pentane, 2,3,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	27.00 ug/l	2693880	1,4-Difluorobenzene	8.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	83
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	83
4	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
5	Heptane, 3,3,4-trimethyl-	142	C10H22	020278-87-9	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

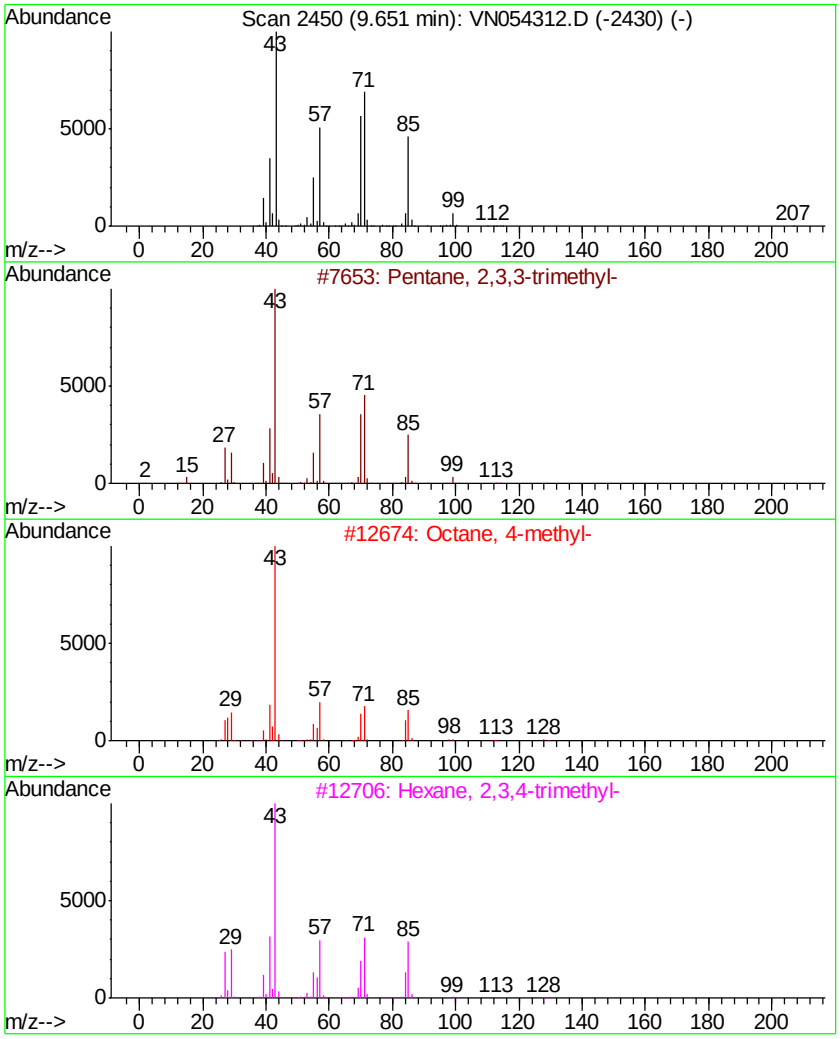
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

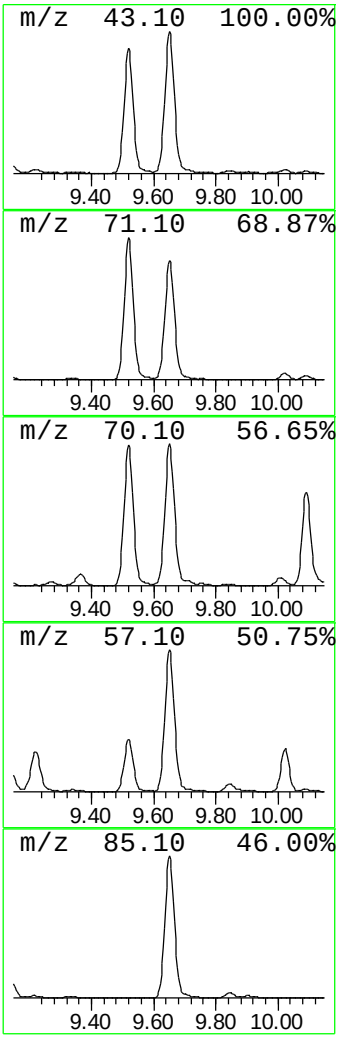
****

Peak Number 6 Pentane, 2,3,3-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	40.10 ug/l	4001370	1,4-Difluorobenzene	8.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	90
2	Octane, 4-methyl-	128	C9H20	002216-34-4	64
3	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	64
4	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

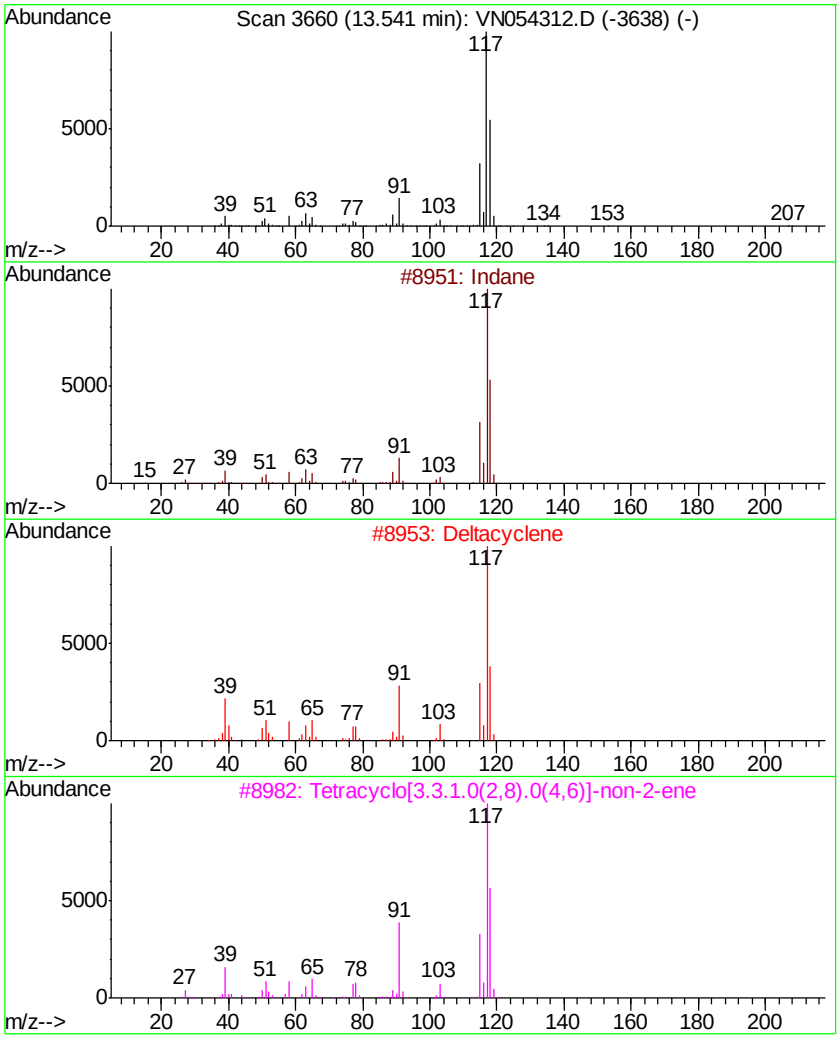
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

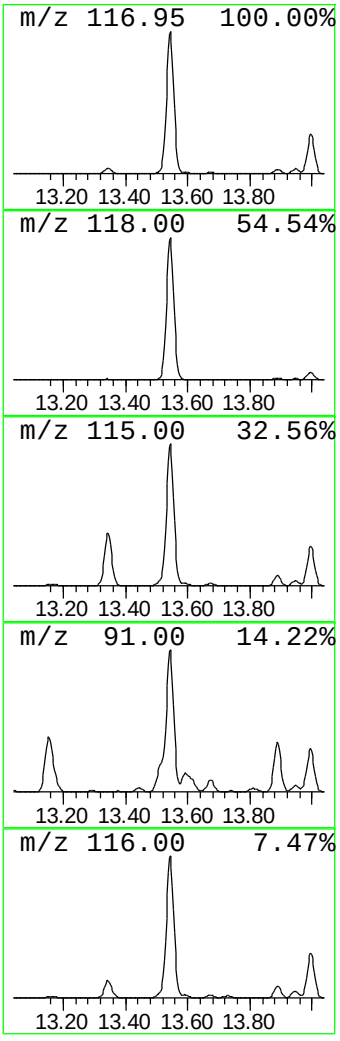
****

Peak Number 7 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	132.04 ug/l	15592500	1,4-Dichlorobenzene-d4	13.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Deltacyclene	118	C9H10	007785-10-6	80
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	80
4	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	72
5	Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

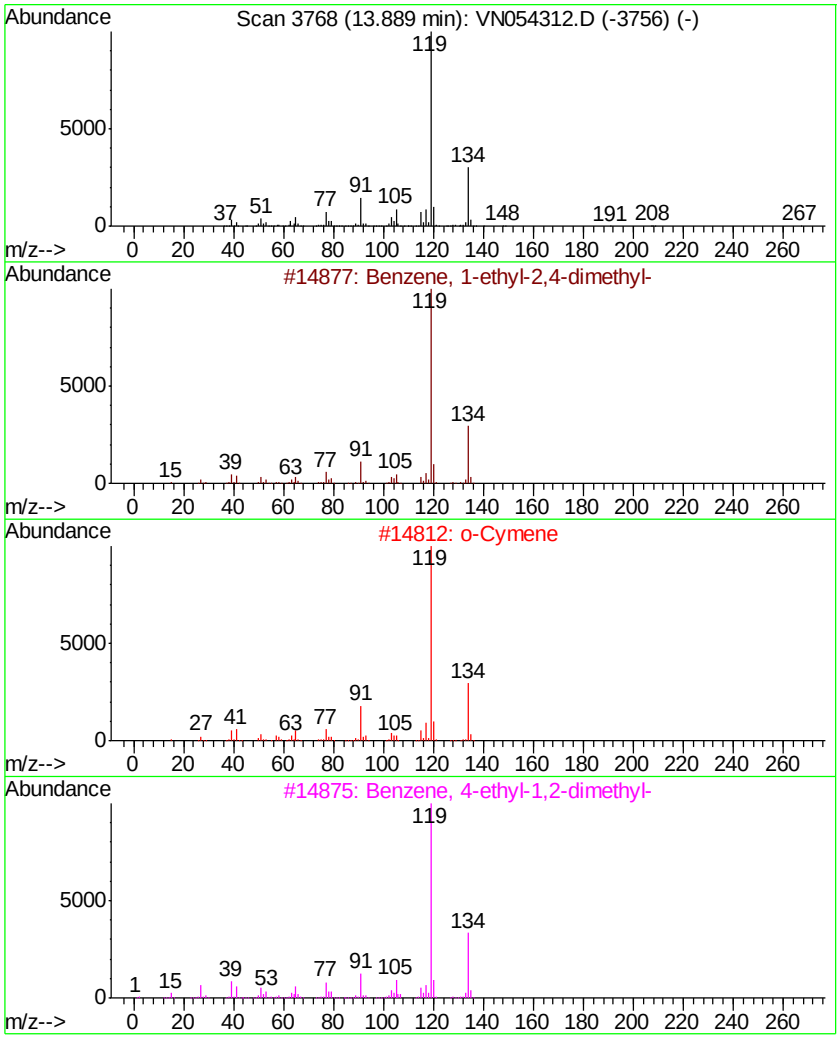
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

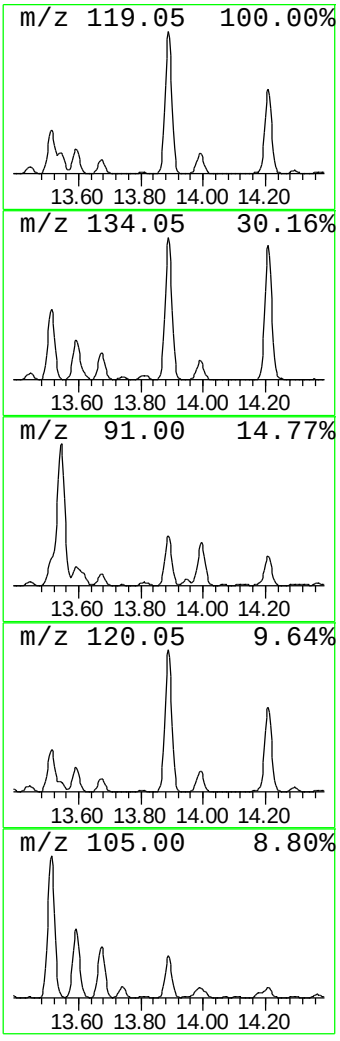
****

Peak Number 8 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	32.35 ug/l	3820480	1,4-Dichlorobenzene-d4	13.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2	o-Cymene	134	C10H14	000527-84-4	97
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

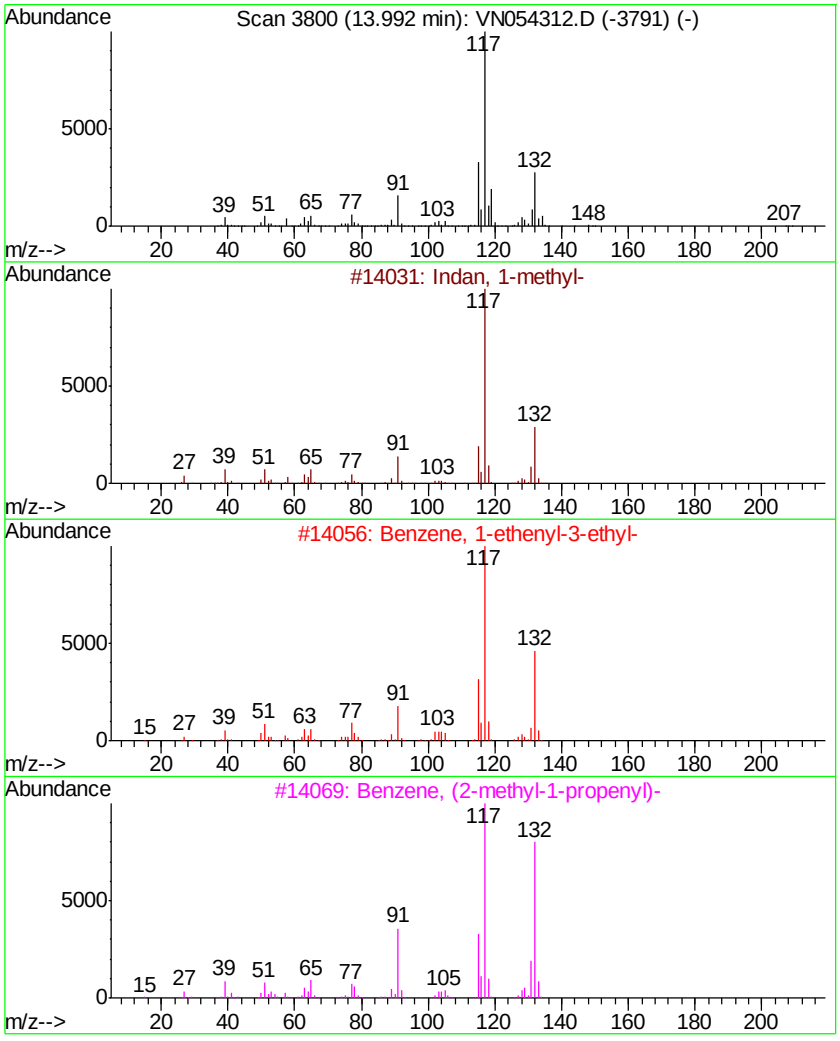
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

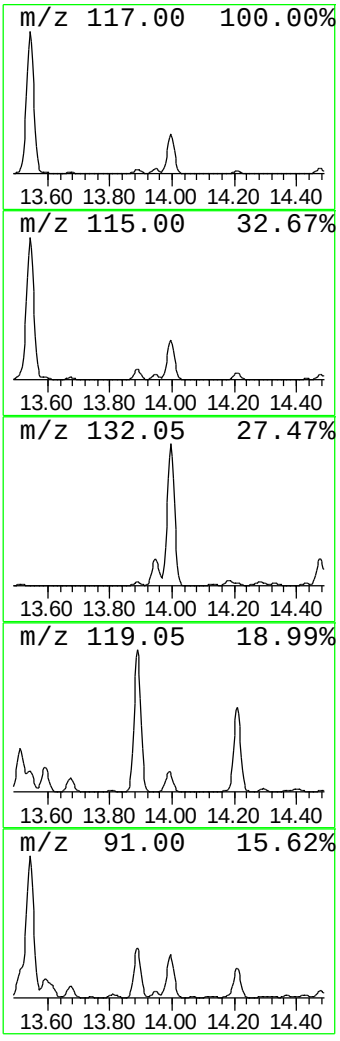
****

Peak Number 9 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.99	35.51 ug/l	4192860	1,4-Dichlorobenzene-d4	13.35

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	87
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	81
4	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	80
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	74





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260

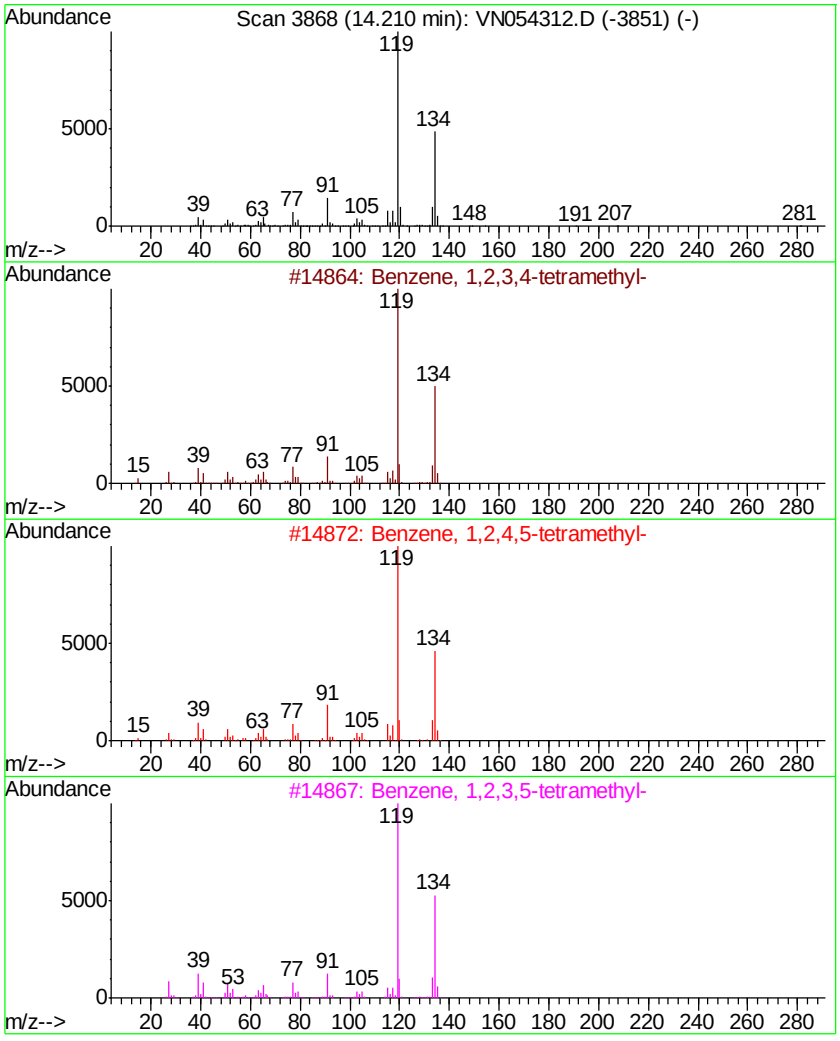
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

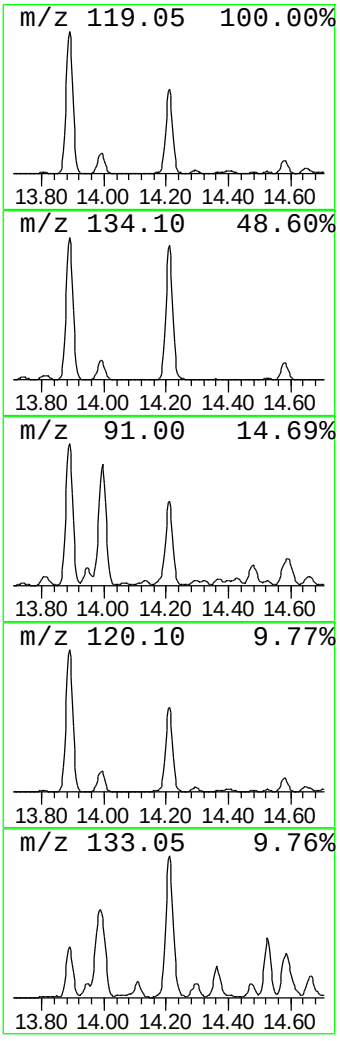
****

Peak Number 10 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.21	22.89 ug/l	2702670	1,4-Dichlorobenzene-d4	13.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031519\
Data File : VN054312.D
Acq On : 15 Mar 2019 16:25
Operator : JC/SP
Sample : K1894-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : RFK-RMAB-MW06-GW

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.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-	2.81	15.0	ug/l	1106840	1	7.67	3691220	50.0
Cyclopentane, met...	6.62	16.7	ug/l	1230840	1	7.67	3691220	50.0
Pentane, 2,3-dime...	7.74	34.2	ug/l	2526300	1	7.67	3691220	50.0
Butane, 2,2,3,3-t...	8.20	55.6	ug/l	5548270	2	8.59	4989140	50.0
Pentane, 2,3,4-tr...	9.52	27.0	ug/l	2693880	2	8.59	4989140	50.0
Pentane, 2,3,3-tr...	9.65	40.1	ug/l	4001370	2	8.59	4989140	50.0
Indane	13.54	132.0	ug/l	15592500	4	13.35	5904570	50.0
Benzene, 1-ethyl-...	13.89	32.4	ug/l	3820480	4	13.35	5904570	50.0
Indan, 1-methyl-	13.99	35.5	ug/l	4192860	4	13.35	5904570	50.0
Benzene, 1,2,3,4-...	14.21	22.9	ug/l	2702670	4	13.35	5904570	50.0