LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

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\82N051719W.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	7.590	1791	1809	1820	rBV	227765	569448	18.70%	1.334%
2	7.664	1821	1832	1862	rVB	430427	1027196	33.73%	2.406%
3	8.027	1925	1945	1972	rBV	212257	498105	16.35%	1.167%
4	8.217	1978	2004	2042	rBV2	29120	168584	5.54%	0.395%
5	8.583	2101	2118	2158	rBV	562926	1217716	39.98%	2.852%
6	10.091	2571	2587	2616	rVB	870174	1669964	54.83%	3.911%
7	10.432	2684	2693	2707	rVB2	17992	34227	1.12%	0.080%
8	10.718	2770	2782	2795	rVB2	57316	99605	3.27%	0.233%
9	10.821	2798	2814	2827	rBV2	36182	80501	2.64%	0.189%
10	11.005	2858	2871	2882	rBV3	133350	261542	8.59%	0.613%
11	11.059	2882	2888	2895	rVV2	22728	37364	1.23%	0.088%
12	11.124	2895	2908	2916	rVV5	89483	179091	5.88%	0.419%
13	11.207	2916	2934	2950	rVB4	115892	354521	11.64%	0.830%
14	11.297	2950	2962	2982	rBV	137773	273671	8.99%	0.641%
15	11.406	2983	2996	3014	rBV	779695	1412012	46.36%	3.307%
16	11.542	3029	3038	3045	rBV	69812	115030	3.78%	0.269%
17	11.593	3045	3054	3063	rVV5	115893	244225	8.02%	0.572%
18	11.654	3063	3073	3081	rVV	283156	546597	17.95%	1.280%
19	11.696	3082	3086	3097	rVB3	209323	309513	10.16%	0.725%
20	11.757	3097	3105	3111	rBV2	63775	110429	3.63%	0.259%
21	11.850	3127	3134	3142	rVB3	163434	243624	8.00%	0.571%
22	11.924	3143	3157	3168	rBV5	505368	1194237	39.21%	2.797%
23	11.979	3170	3174	3179	rVV3	69088	77671	2.55%	0.182%
24	12.043	3186	3194	3203	rVB	934766	1331073	43.70%	3.118%
25	12.120	3209	3218	3222	rBV5	373336	607372	19.94%	1.423%
26	12.156	3223	3229	3241	rVB4	731518	1364499	44.80%	3.196%
27	12.294	3262	3272	3279	rBV6	427390	861832	28.30%	2.019%
28	12.336	3279	3285	3294	rVB	832423	1267514	41.62%	2.969%
29	12.403	3294	3306	3316	rBV2	792435	1448653	47.57%	3.393%
30	12.490	3317	3333	3340	rBV7	232369	650914	21.37%	1.525%
31	12.561	3348	3355	3368	rVB3	815210	1533059	50.34%	3.591%
32	12.644	3369	3381	3390	rBV6	394688	954067	31.33%	2.235%
33	12.728	3393	3407	3416	rVV5	1084185	2989502	98.16%	7.002%
34	12.779	3418	3423	3433	rVB3	587697	939444	30.85%	2.200%

LSC Area Percent Report

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Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

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\82N051719W.M
Title : SW846 8260

35	12.869	3444	3451	3458	rBV4	369309	535307	17.58%	1.254%
36	12.960	3472	3479	3492	rVB	1884248	3045588	100.00%	7.133%
37	13.037	3493	3503	3513	rBV	1299473	2184582	71.73%	5.117%
38	13.088	3513	3519	3528	rVB2	300645	438947	14.41%	1.028%
39	13.143	3530	3536	3541	rBV3	361250	551330	18.10%	1.291%
40	13.236	3552	3565	3573	rBV4	1077153	2074825	68.13%	4.860%
41	13.281	3574	3579	3587	rVB4	428435	627757	20.61%	1.470%
42	13.342	3591	3598	3605	rBV	424905	653285	21.45%	1.530%
43	13.590	3668	3675	3687	rVB4	351807	582122	19.11%	1.363%
44	13.664	3688	3698	3707	rVV5	655278	1243073	40.82%	2.912%
45	13.709	3708	3712	3720	rVB2	220803	290372	9.53%	0.680%
46	13.831	3746	3750	3760	rVB4	529155	725009	23.81%	1.698%
47	13.886	3761	3767	3776	rVB	543076	829924	27.25%	1.944%
48	13.992	3791	3800	3810	rVB3	502879	820978	26.96%	1.923%
49	14.053	3811	3819	3832	rVV9	147930	381089	12.51%	0.893%
50	14.127	3833	3842	3848	rVV3	197014	362864	11.91%	0.850%
51	14.178	3850	3858	3873	rVV6	320528	908905	29.84%	2.129%
52	14.246	3874	3879	3887	rVB	275446	380553	12.50%	0.891%
53	14.294	3888	3894	3900	rBV3	116024	157732	5.18%	0.369%
54	14.332	3900	3906	3913	rVB3	125115	162941	5.35%	0.382%
55	14.522	3960	3965	3973	rVB	87739	119419	3.92%	0.280%
56	14.580	3973	3983	3995	rVV2	314087	595985	19.57%	1.396%
57	14.644	3996	4003	4013	rVB2	73864	127503	4.19%	0.299%
58	14.741	4026	4033	4041	rVB	69963	104938	3.45%	0.246%
59	14.850	4061	4067	4073	rBV4	33095	45441	1.49%	0.106%
60	14.953	4093	4099	4111	rVB5	37109	71000	2.33%	0.166%

Sum of corrected areas: 42694271

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
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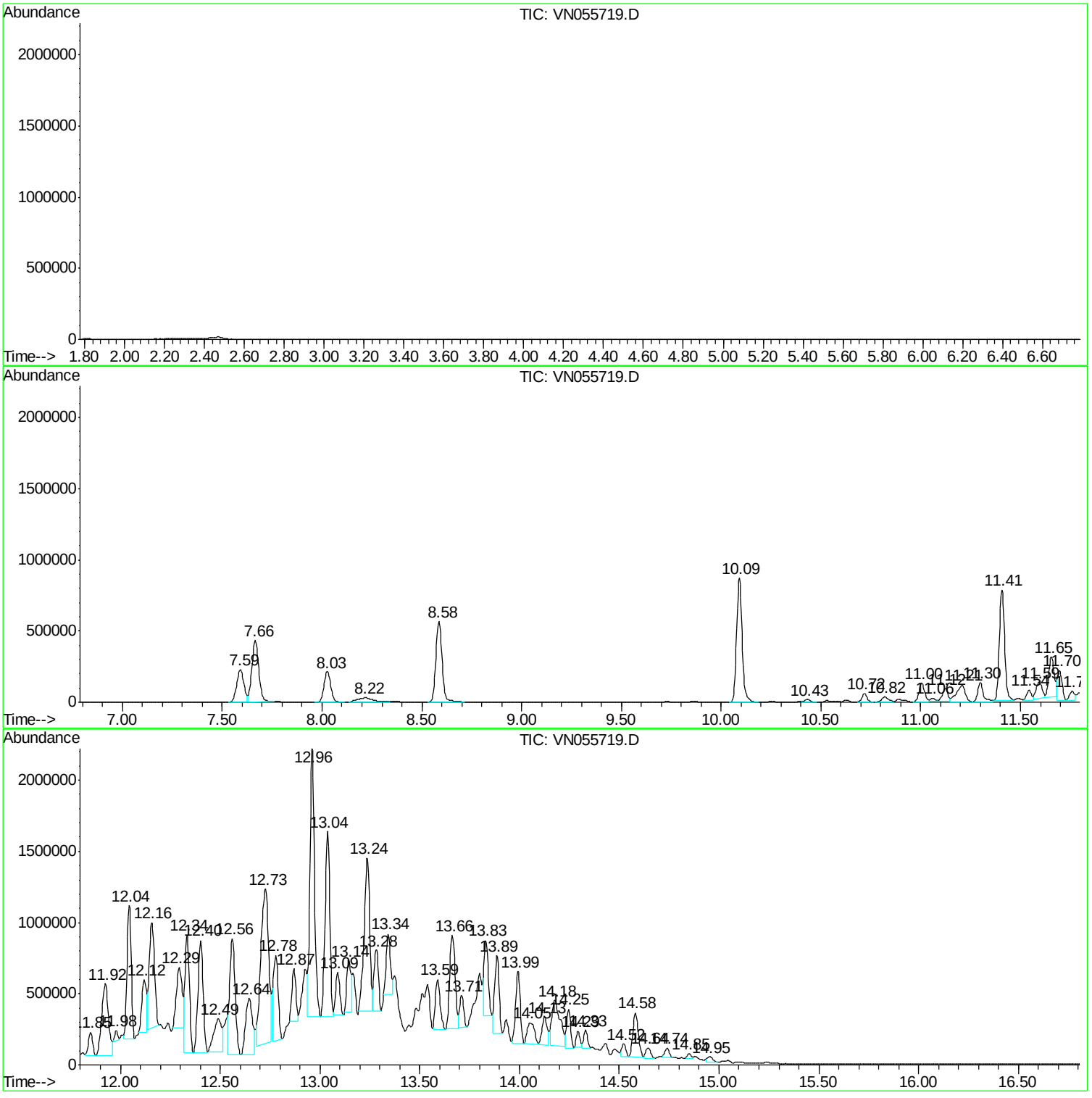
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.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_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
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ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

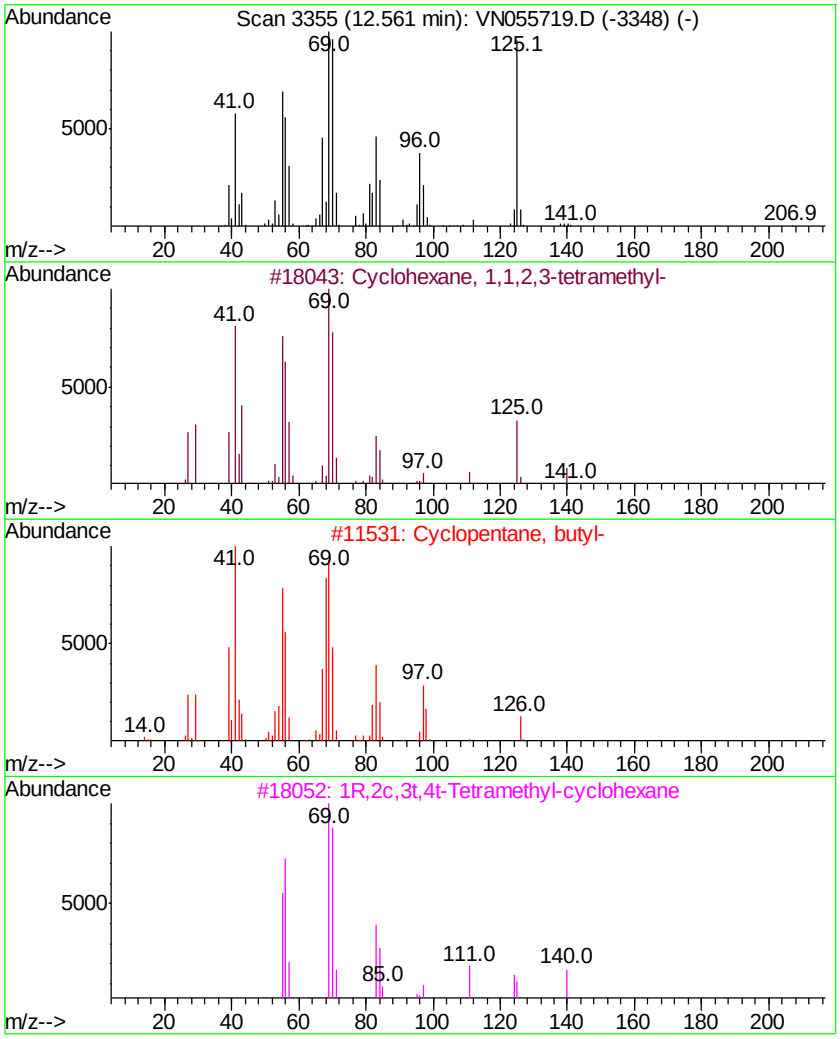
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

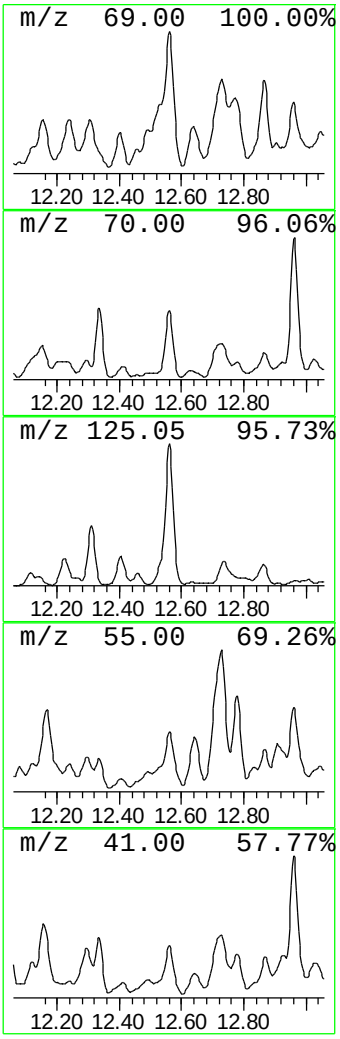
****

Peak Number 1 Cyclohexane, 1,1,2,3-tetram... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.56	117.34 ug/l	1533060	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	64
2	Cyclopentane, butyl-	126	C9H18	002040-95-1	50
3	1R,2c,3t,4t-Tetramethyl-cyclohexane	140	C10H20	1000144-07-3	50
4	Cyclohexane, 1,1,4,4-tetramethyl-	140	C10H20	002223-52-1	43
5	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

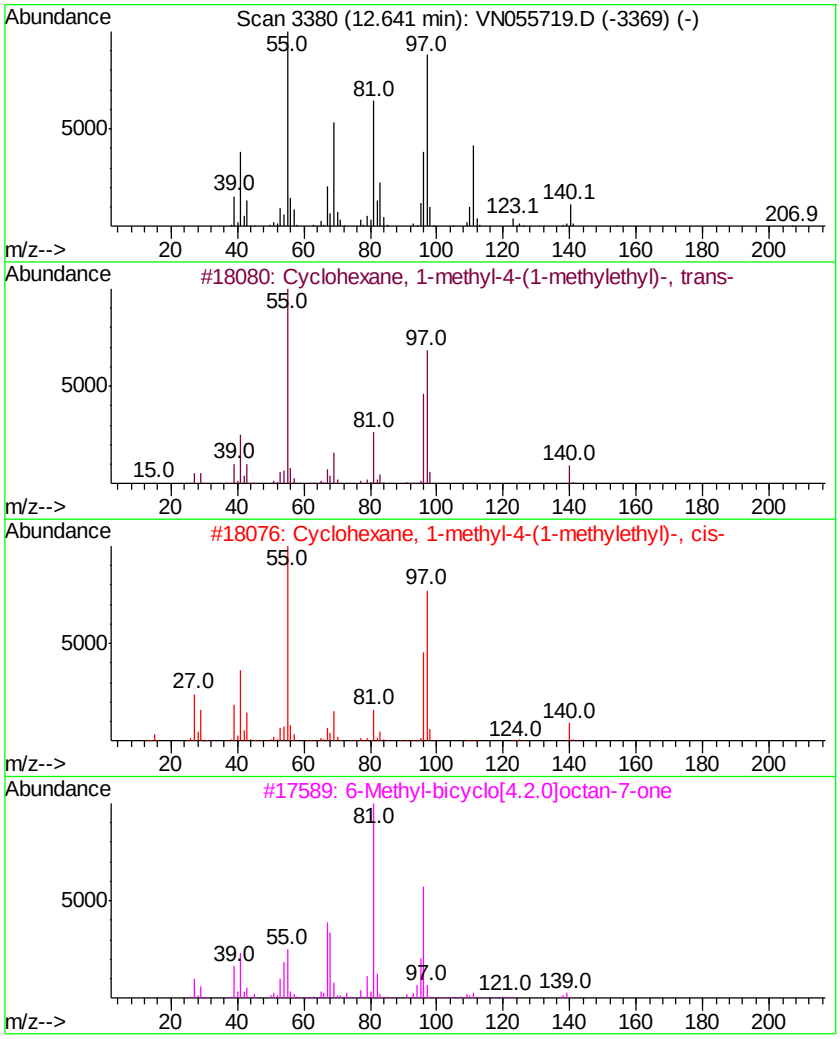
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

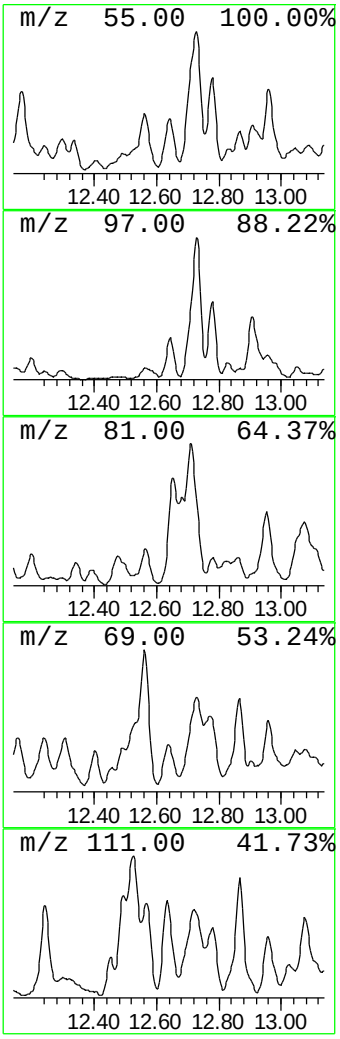
****

Peak Number 2 Cyclohexane, 1-methyl-4-(1-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	73.02 ug/l	954067	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	50
2	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	49
3	6-Methyl-bicyclo[4.2.0]octan-7-one	138	C9H14O	1000193-87-2	45
4	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	45
5	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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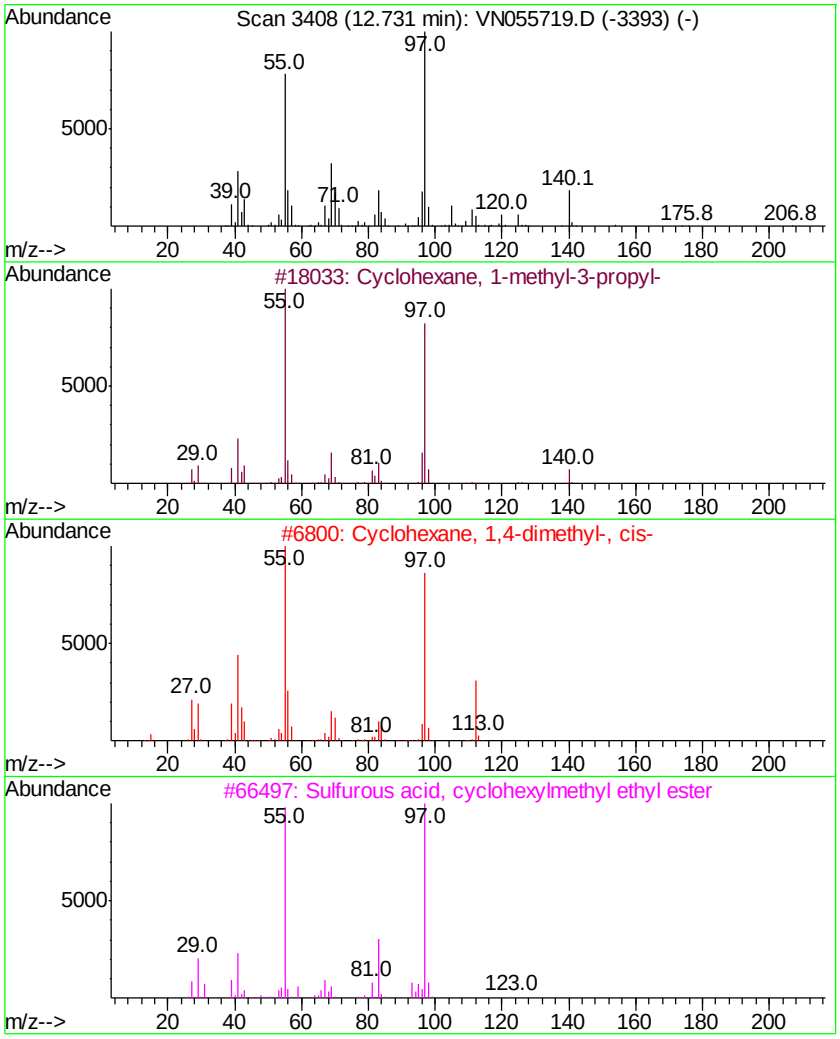
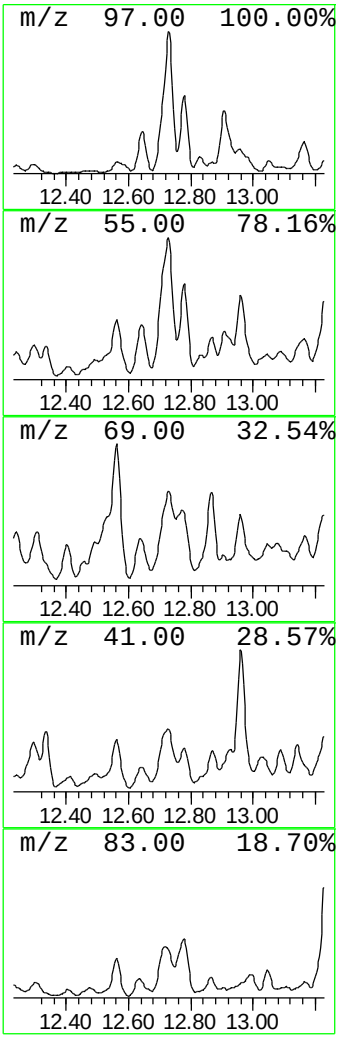
Peak Number 3 Cyclohexane, 1-methyl-3-pro... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.73	228.81 ug/l	2989500	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-3-propyl-	140	C10H20	004291-80-9	64
2	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	59
3	Sulfurous acid, cyclohexylmethyl...	206	C9H18O3S	1000309-21-2	53
4	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	53
5	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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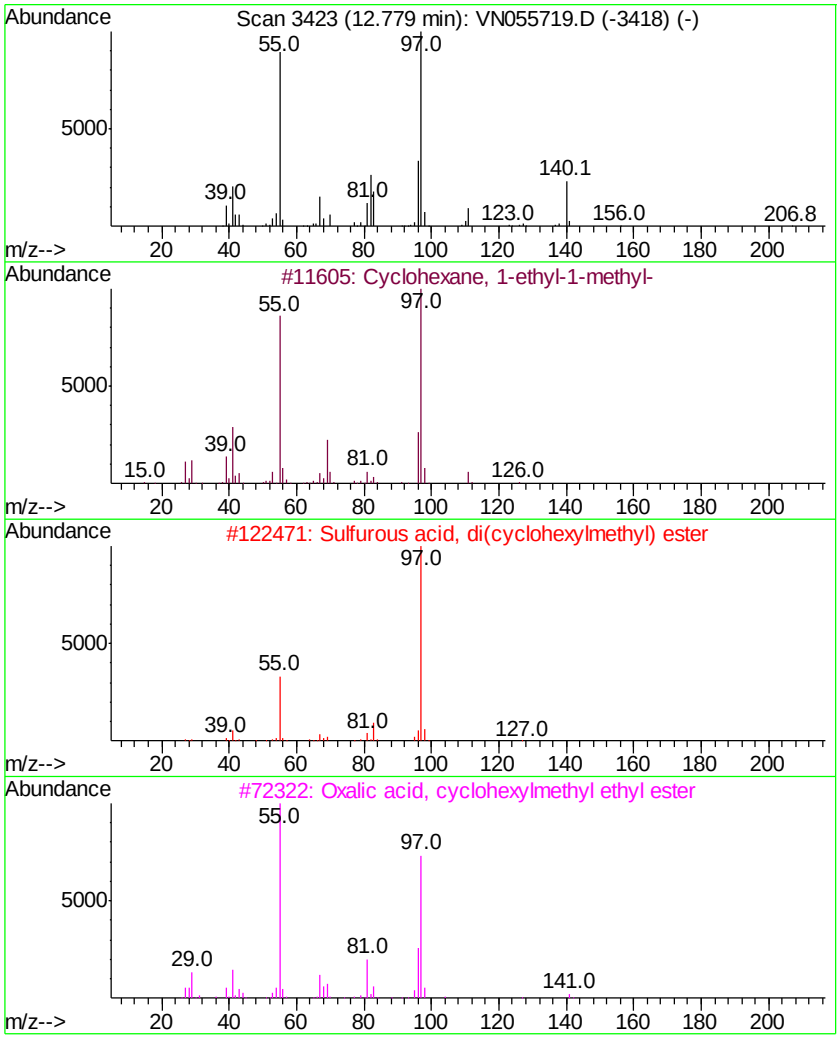
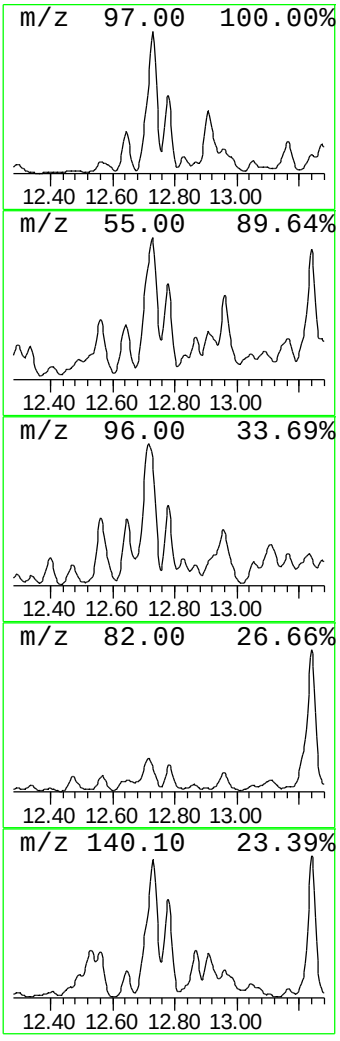
Peak Number 4 Cyclohexane, 1-ethyl-1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	71.90 ug/l	939444	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-1-methyl-	126	C9H18	004926-90-3	59
2	Sulfurous acid, di(cyclohexylmet...	274	C14H26O3S	1000309-22-7	53
3	Oxalic acid, cyclohexylmethyl et...	214	C11H18O4	1000309-68-0	53
4	cis-2-Oxabicyclo[4.4.0]decane	140	C9H16O	060416-19-5	52
5	3-Hexene, 3-ethyl-2,5-dimethyl-	140	C10H20	062338-08-3	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
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Acq On : 21 May 2019 19:07
Operator : JC/SP
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Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

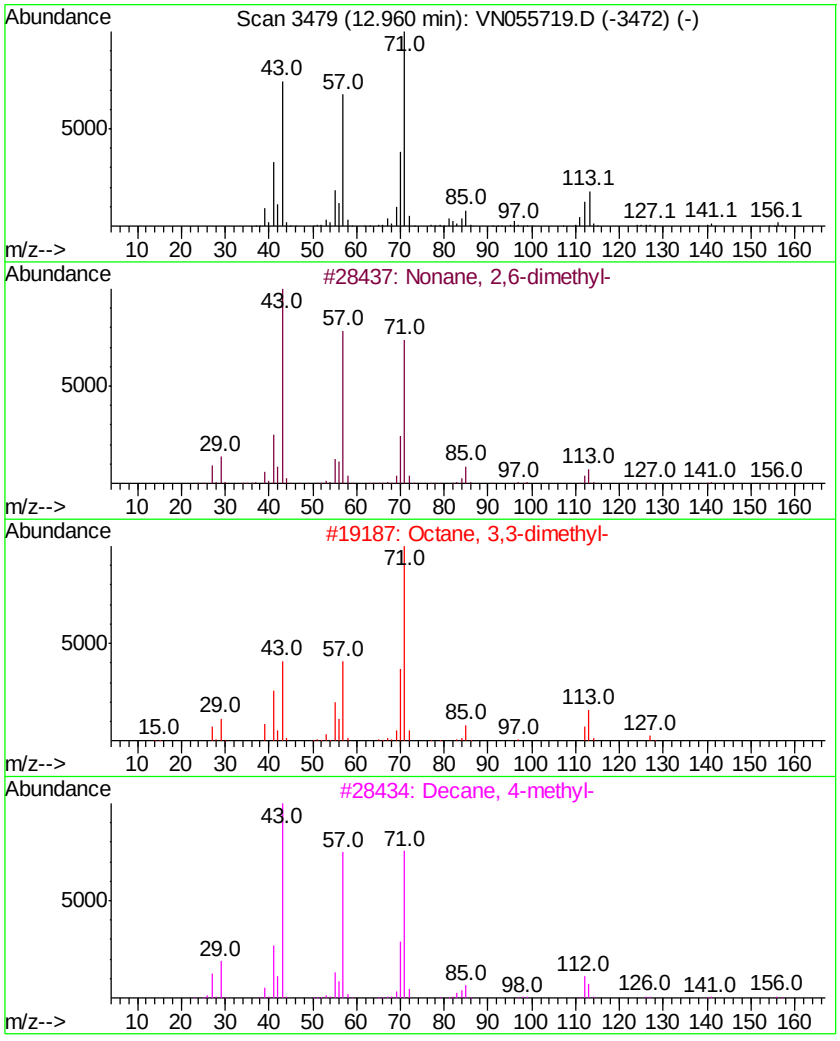
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

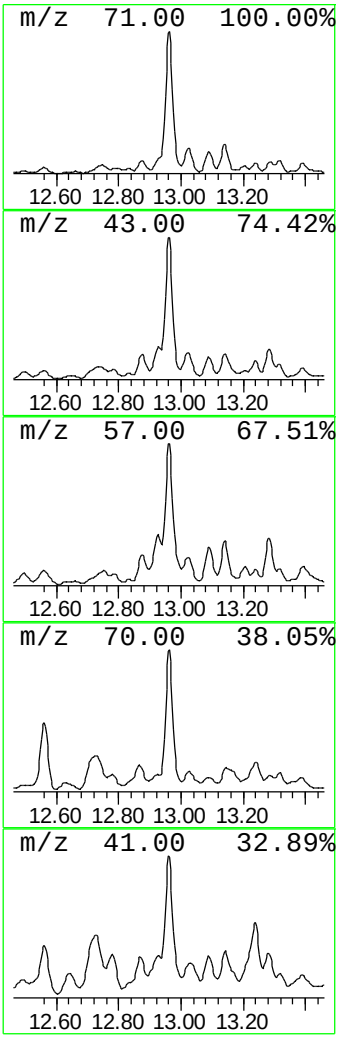
****

Peak Number 5 Nonane, 2,6-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	233.10 ug/l	3045590	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	87
2	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	78
3	Decane, 4-methyl-	156	C11H24	002847-72-5	78
4	Octane, 3-ethyl-	142	C10H22	005881-17-4	72
5	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	59





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Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

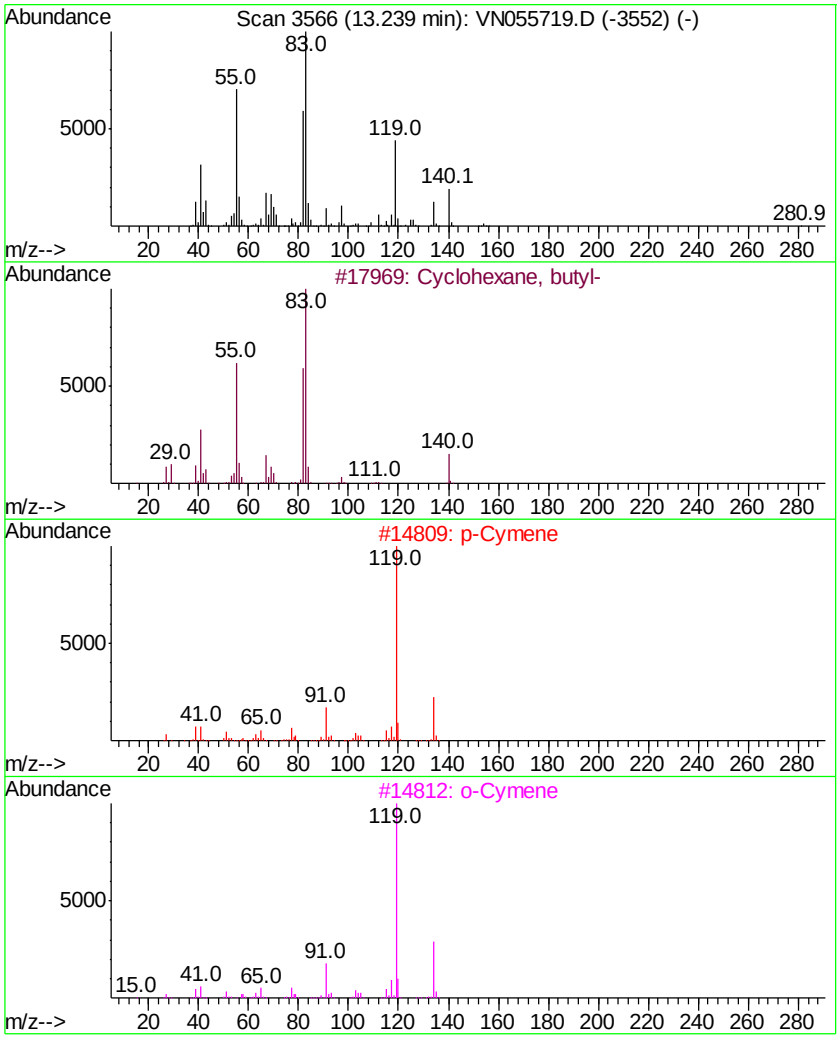
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

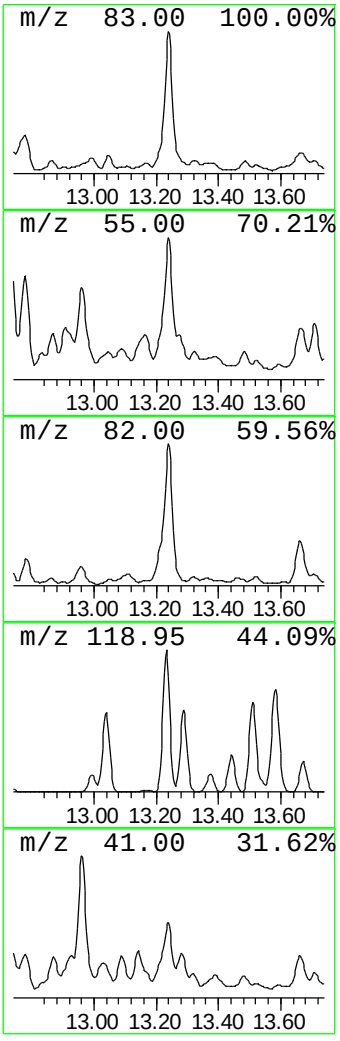
****

Peak Number 6 Cyclohexane, butyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.24	158.80 ug/l	2074830	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	91
2	p-Cymene	134	C10H14	000099-87-6	59
3	o-Cymene	134	C10H14	000527-84-4	59
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	56
5	Cyclohexane, pentyl-	154	C11H22	004292-92-6	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

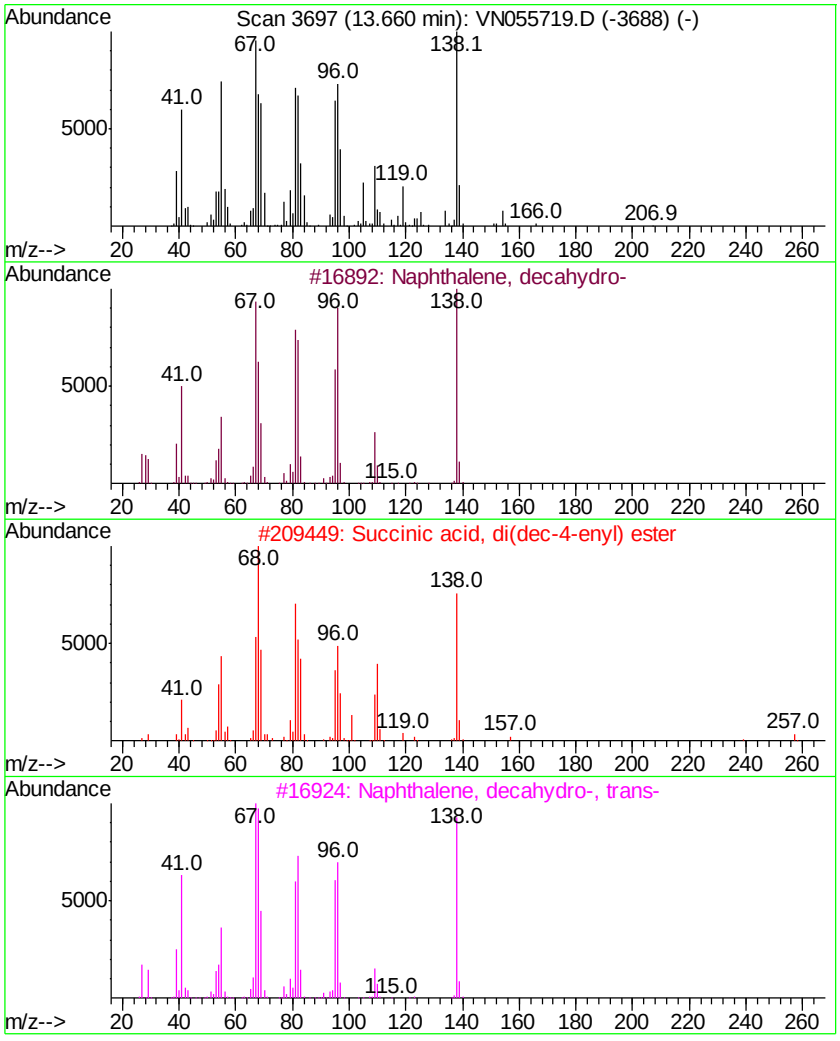
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

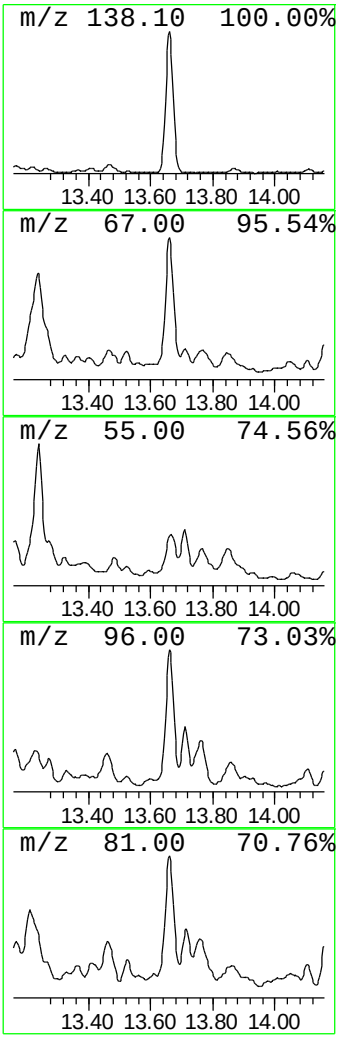
****

Peak Number 7 Naphthalene, decahydro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.66	95.14 ug/l	1243070	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	96
2	Succinic acid, di(dec-4-enyl) ester	394	C24H42O4	1000353-47-2	87
3	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	86
4	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	81
5	Spiro[4.5]decane	138	C10H18	000176-63-6	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

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

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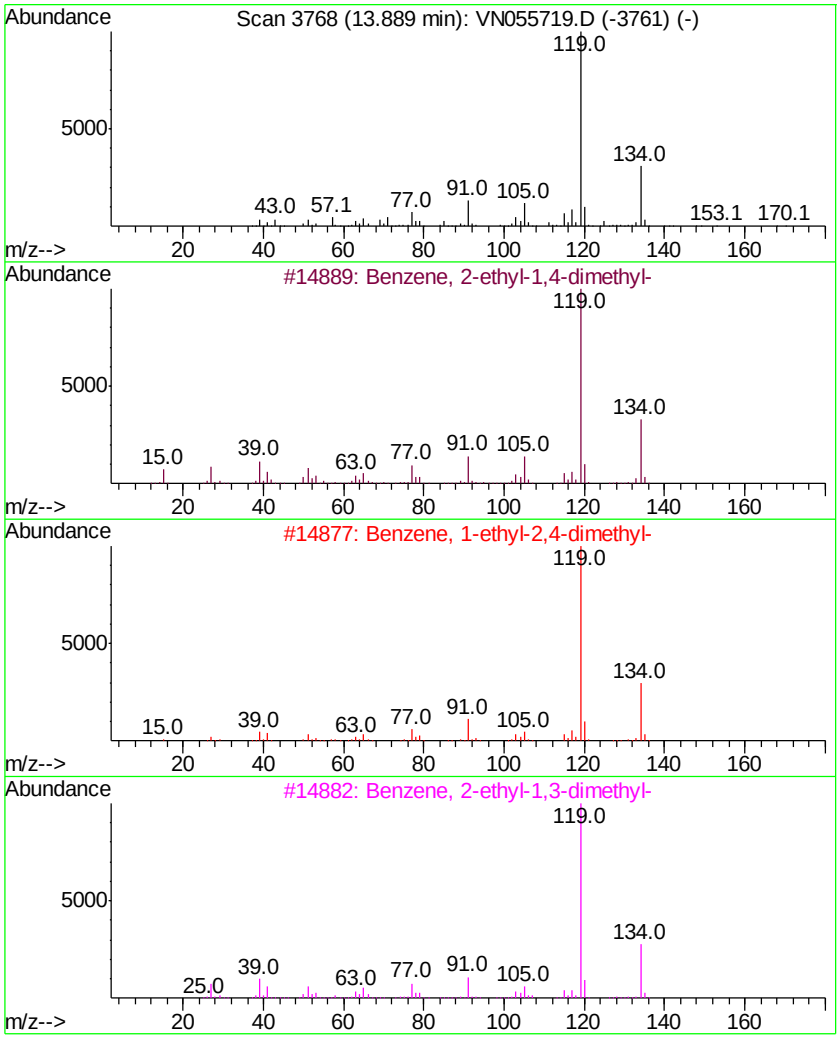
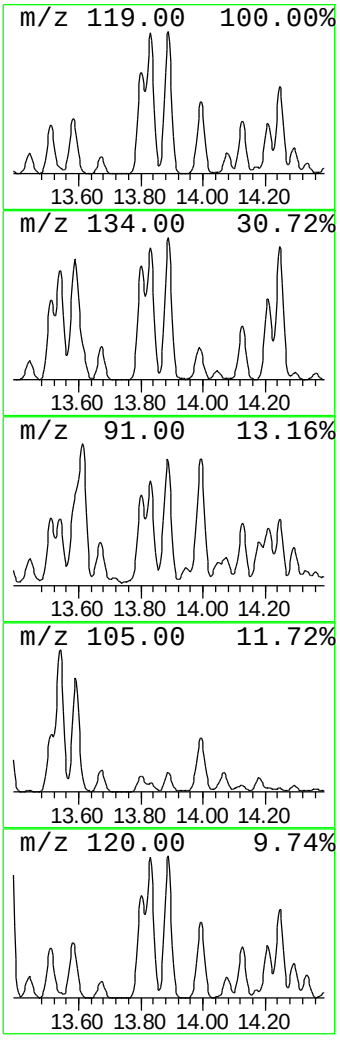
Peak Number 8 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	63.52 ug/l	829924	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
4	o-Cymene	134	C10H14	000527-84-4	95
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260

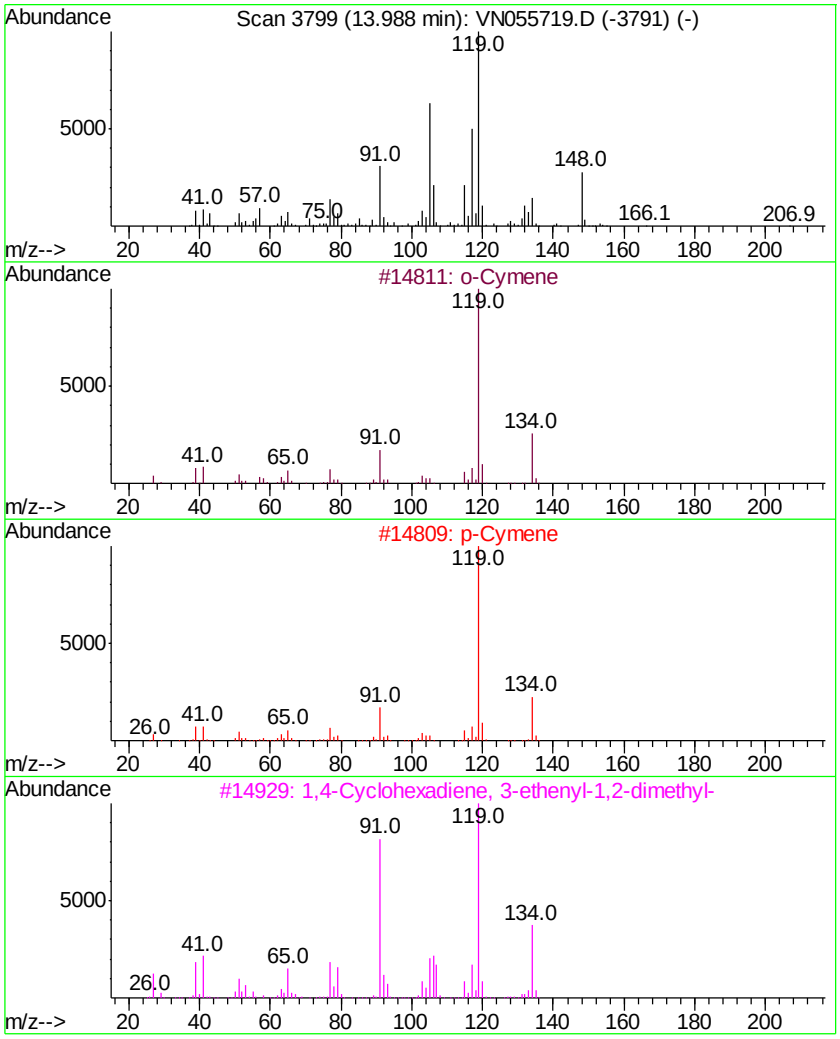
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

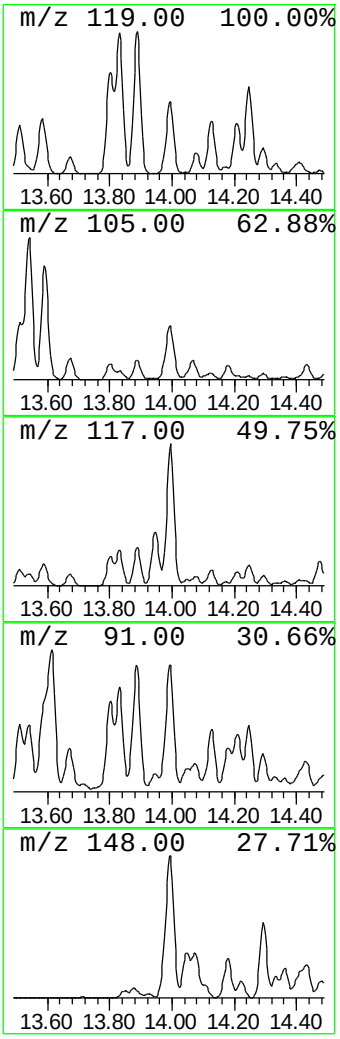
****

Peak Number 9 o-Cymene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.99	62.83 ug/l	820978	1,4-Dichlorobenzene-d4	13.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	50
2	p-Cymene	134	C10H14	000099-87-6	50
3	1,4-Cyclohexadiene, 3-ethenyl-1,...	134	C10H14	062338-57-2	49
4	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	46
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	46





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052119\
Data File : VN055719.D
Acq On : 21 May 2019 19:07
Operator : JC/SP
Sample : K2977-05 50X
Misc : 6.12g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 25 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : EP1-W-5R(14-17)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.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
Cyclohexane, 1,1,...	12.56	117.3	ug/l	1533060	4	13.34	653285	50.0
Cyclohexane, 1-me...	12.64	73.0	ug/l	954067	4	13.34	653285	50.0
Cyclohexane, 1-me...	12.73	228.8	ug/l	2989500	4	13.34	653285	50.0
Cyclohexane, 1-et...	12.78	71.9	ug/l	939444	4	13.34	653285	50.0
Nonane, 2,6-dimet...	12.96	233.1	ug/l	3045590	4	13.34	653285	50.0
Cyclohexane, butyl-	13.24	158.8	ug/l	2074830	4	13.34	653285	50.0
Naphthalene, deca...	13.66	95.1	ug/l	1243070	4	13.34	653285	50.0
Benzene, 2-ethyl-...	13.89	63.5	ug/l	829924	4	13.34	653285	50.0
o-Cymene	13.99	62.8	ug/l	820978	4	13.34	653285	50.0