

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087323.D
 Acq On : 10 Jul 2025 14:10
 Operator : JC\MD
 Sample : Q2554-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250709071-01 VOA

Integration Parameters: RTEINT3.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % 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\624N062525W.M

Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC: VN087323.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.059	14	18	36	rVB	246257	554003	8.53%	1.870%
2	2.324	57	63	73	rVB	164294	296046	4.56%	0.999%
3	2.871	145	156	168	rVB	147910	370714	5.71%	1.251%
4	4.441	411	423	437	rBV	848534	2698260	41.54%	9.106%
5	4.730	458	472	493	rBV	335555	1185623	18.25%	4.001%
6	5.536	593	609	640	rBV	1460727	5717800	88.02%	19.296%
7	7.441	920	933	938	rBV	2367386	6496006	100.00%	21.923%
8	7.788	983	992	996	rBV	762994	1827631	28.13%	6.168%
9	7.841	996	1001	1018	rVB	959062	2669207	41.09%	9.008%
10	8.588	1111	1128	1136	rBV5	126265	492090	7.58%	1.661%
11	8.671	1136	1142	1156	rVB3	340979	810955	12.48%	2.737%
12	9.106	1207	1216	1226	rVV	238289	487899	7.51%	1.647%
13	9.535	1283	1289	1300	rVB	38558	85908	1.32%	0.290%
14	10.453	1436	1445	1456	rBV3	34160	92452	1.42%	0.312%
15	10.565	1456	1464	1470	rVV	352308	674364	10.38%	2.276%
16	10.629	1470	1475	1487	rVV2	109536	267568	4.12%	0.903%
17	11.176	1558	1568	1578	rVV2	94317	199307	3.07%	0.673%
18	11.865	1676	1685	1696	rVV	335792	691617	10.65%	2.334%
19	11.965	1696	1702	1711	rVB	148055	269147	4.14%	0.908%
20	12.065	1713	1719	1729	rBV	121779	239058	3.68%	0.807%
21	12.400	1769	1776	1783	rBV	88682	156169	2.40%	0.527%
22	12.694	1819	1826	1833	rBV	34460	66756	1.03%	0.225%
23	12.847	1846	1852	1863	rVB	260865	452345	6.96%	1.527%
24	13.482	1954	1960	1969	rBV	60298	124975	1.92%	0.422%
25	13.606	1975	1981	1986	rBV2	63096	108792	1.67%	0.367%
26	13.723	1996	2001	2007	rVB	86848	139010	2.14%	0.469%
27	13.811	2007	2016	2019	rBV2	76600	145632	2.24%	0.491%
28	13.853	2019	2023	2029	rVV2	142431	227764	3.51%	0.769%
29	13.923	2029	2035	2041	rVV4	30222	88040	1.36%	0.297%
30	13.994	2042	2047	2053	rVB	56715	103936	1.60%	0.351%
31	14.258	2086	2092	2095	rBV2	75852	147502	2.27%	0.498%
32	14.294	2095	2098	2107	rVB2	62381	125288	1.93%	0.423%
33	14.453	2116	2125	2133	rBV7	34552	101727	1.57%	0.343%
34	14.670	2151	2162	2178	rBV	716006	1377828	21.21%	4.650%
35	14.947	2196	2209	2214	rBV5	50315	139987	2.15%	0.472%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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\624N062525W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

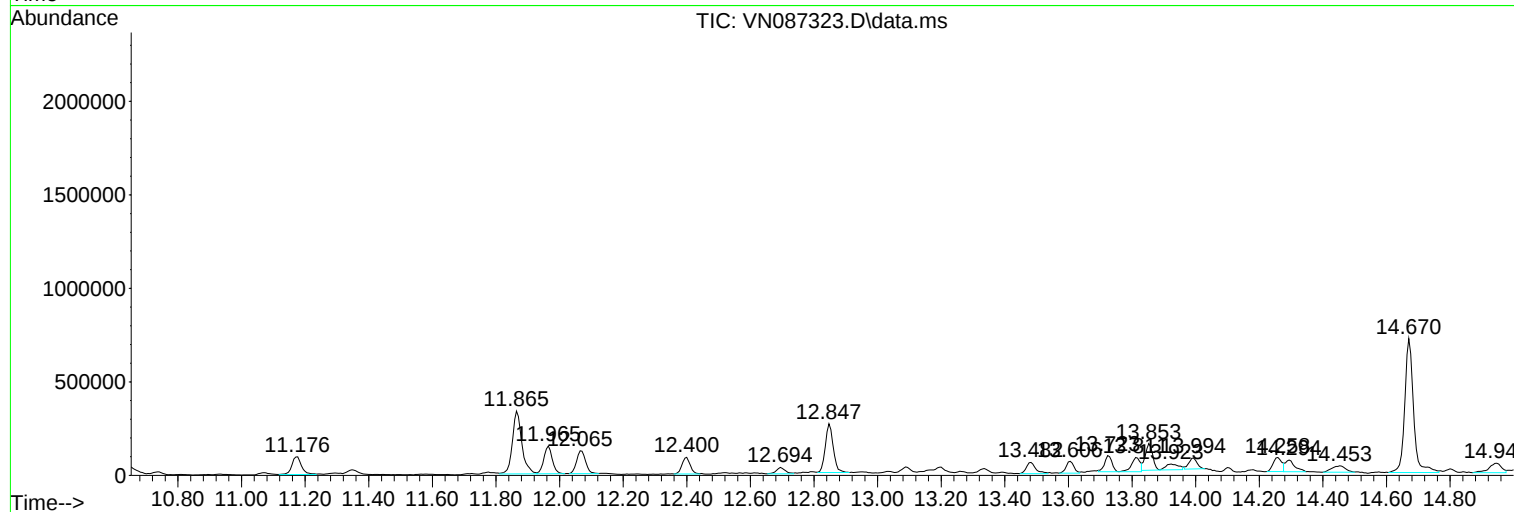
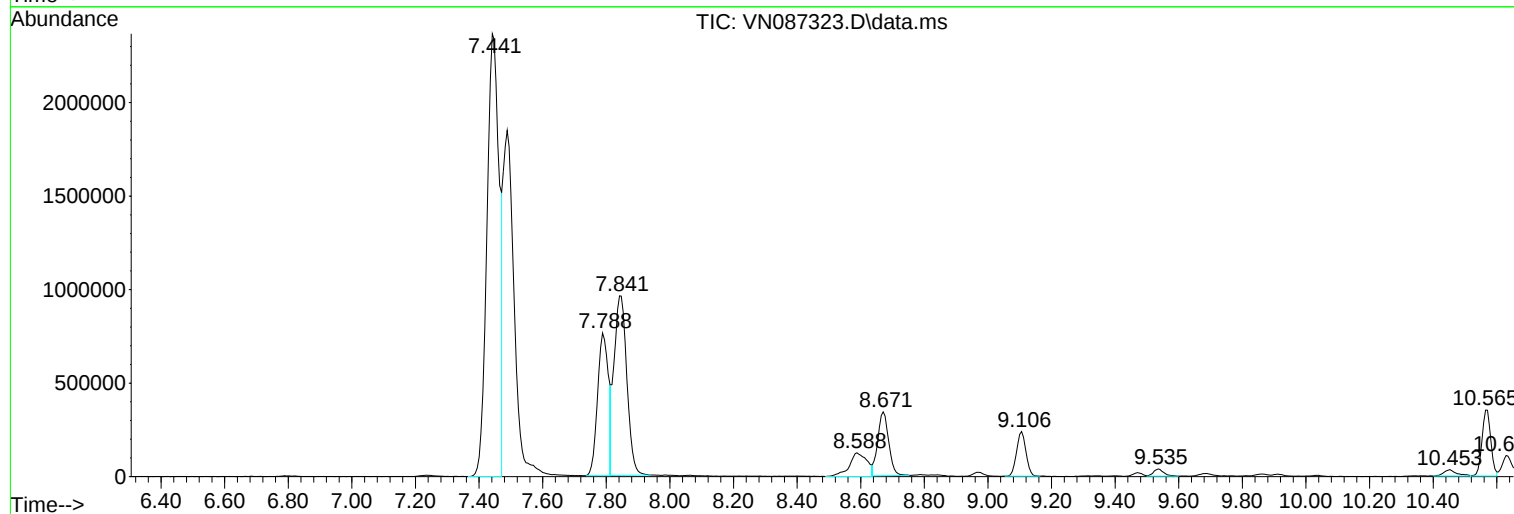
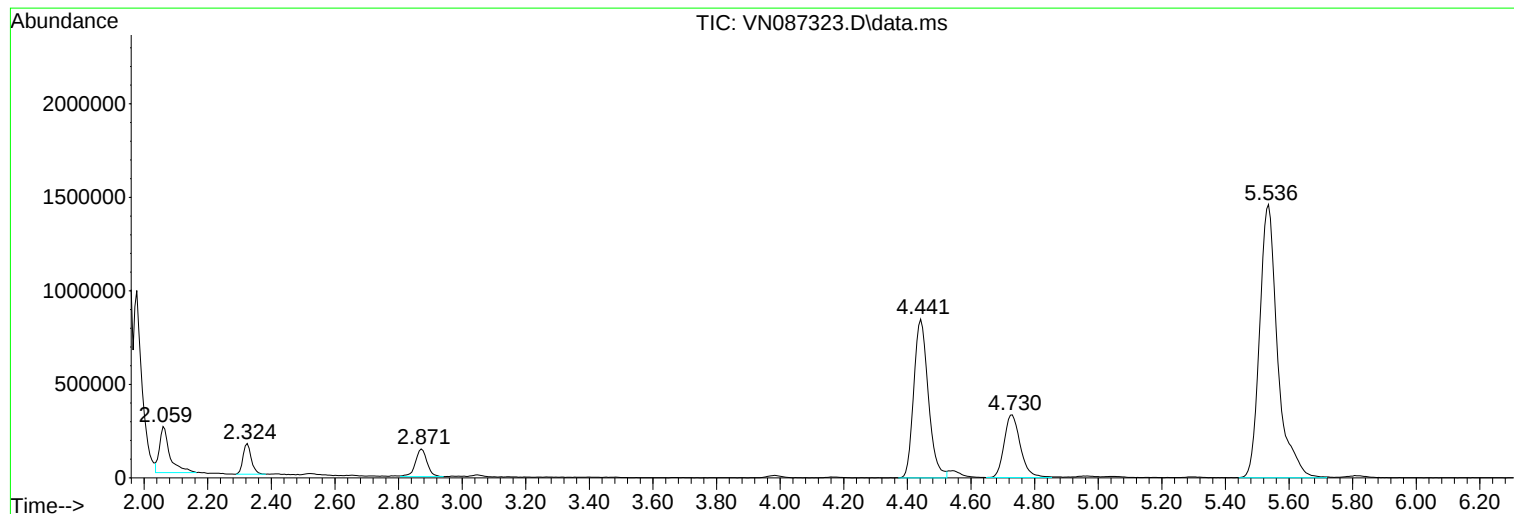
Sum of corrected areas: 29631406

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

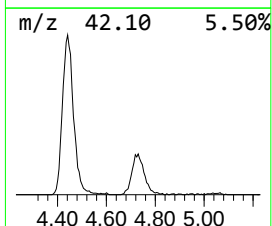
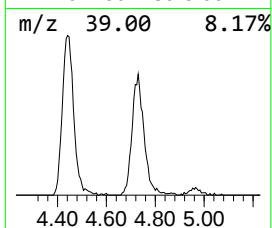
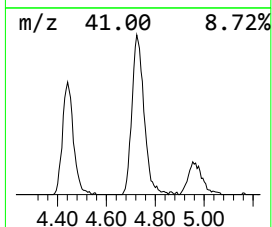
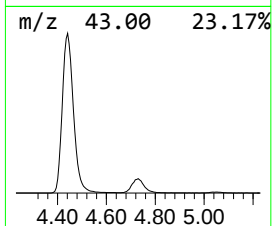
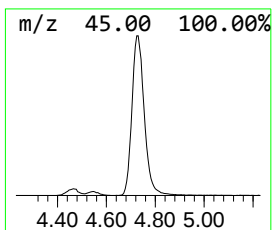
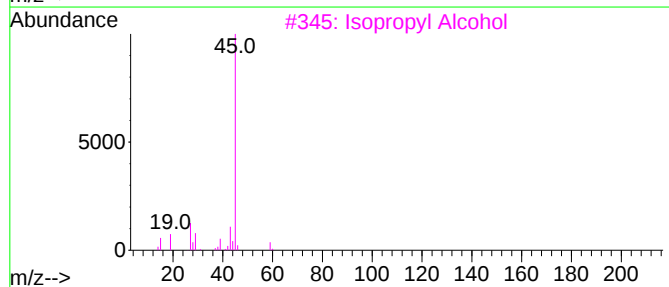
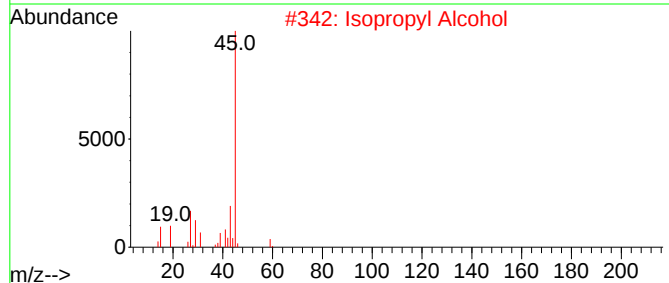
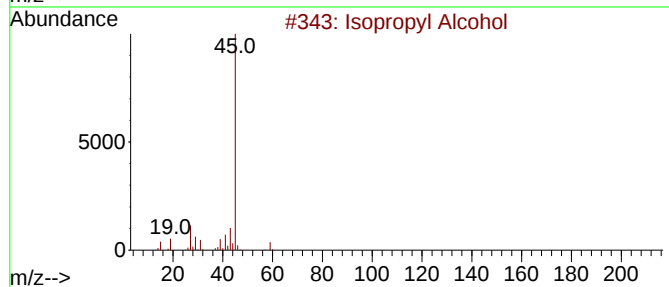
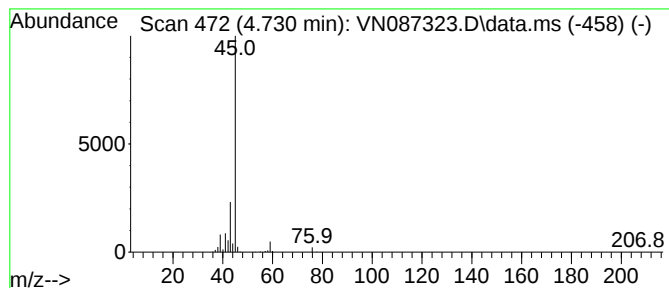
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Isopropyl Alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.730	13.33 ug/l	1185620	Bromochloromethane	7.824

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol			60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol			60	C3H8O	000067-63-0	83
3	Isopropyl Alcohol			60	C3H8O	000067-63-0	64
4	Isopropyl Alcohol			60	C3H8O	000067-63-0	64
5	Isopropyl Alcohol			60	C3H8O	000067-63-0	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

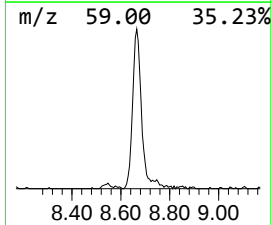
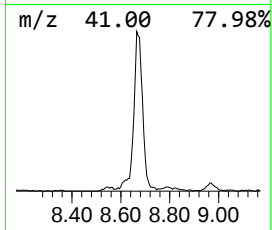
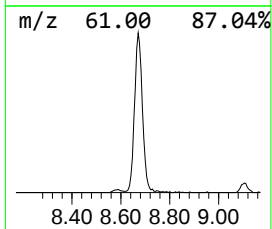
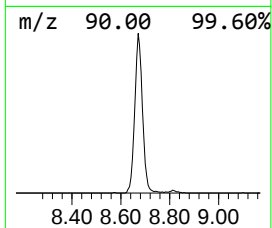
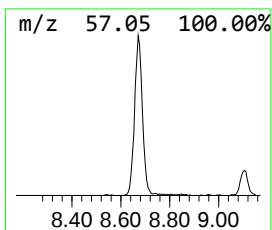
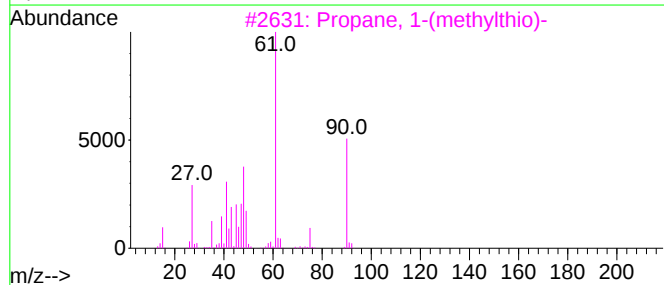
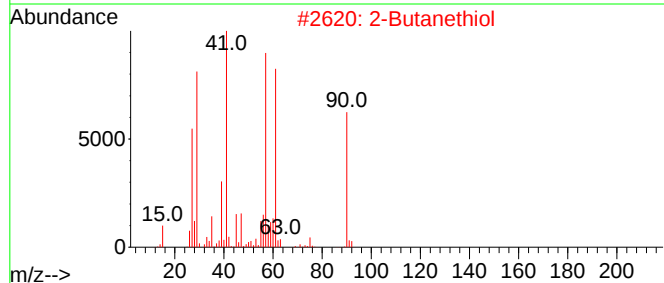
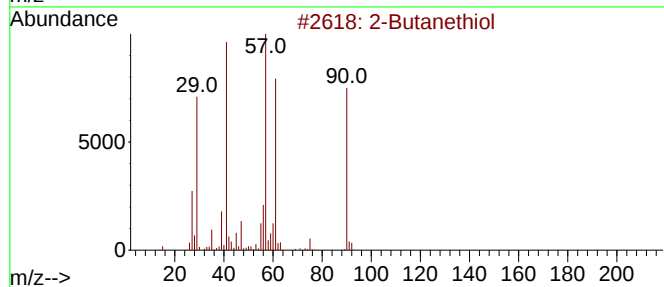
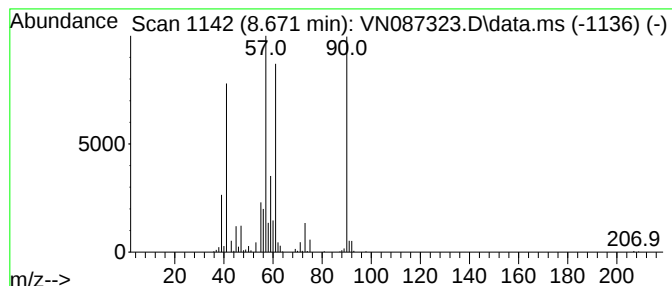
Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 2-Butanethiol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
8.671	49.86 ug/l	810955	1,4-Difluorobenzene	9.106	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanethiol	90	C4H10S	000513-53-1	90
2	2-Butanethiol	90	C4H10S	000513-53-1	87
3	Propane, 1-(methylthio)-	90	C4H10S	003877-15-4	50
4	Pentanethioic acid, O-methyl ester	132	C6H12OS	055283-58-4	42
5	Carbohydrazide	90	CH6N4O	000497-18-7	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

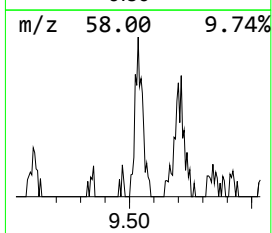
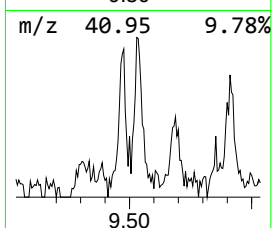
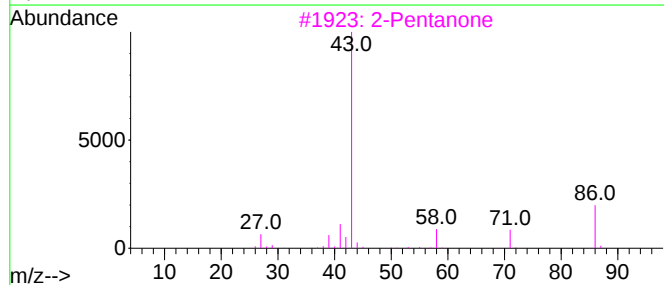
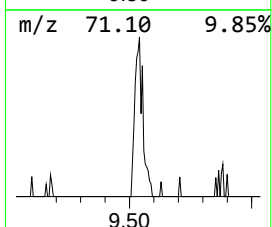
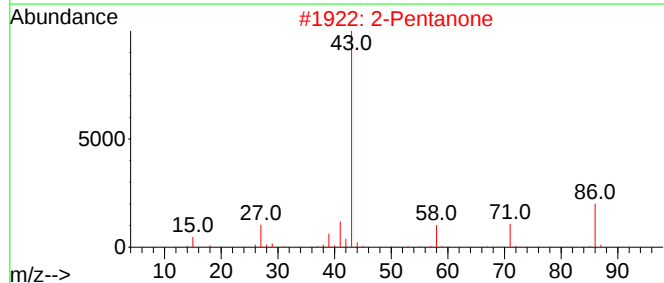
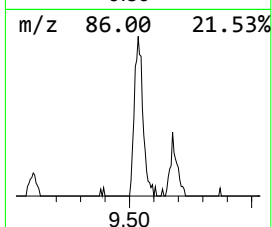
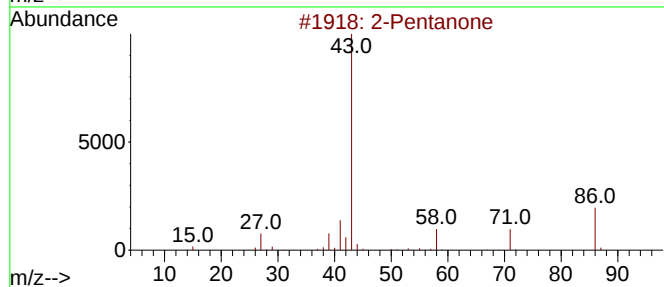
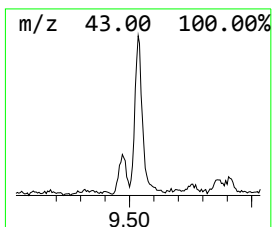
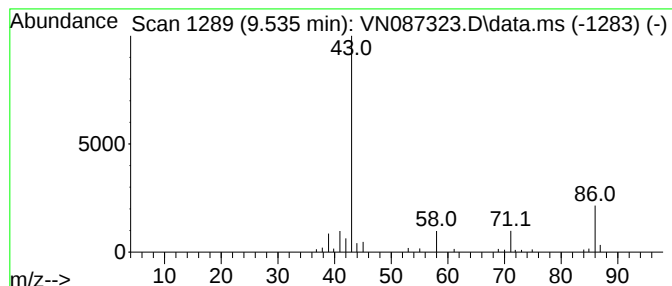
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 2-Pentanone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.535	5.28 ug/l	85908	1,4-Difluorobenzene	9.106

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone	86	C5H10O	000107-87-9	72
2		2-Pentanone	86	C5H10O	000107-87-9	72
3		2-Pentanone	86	C5H10O	000107-87-9	64
4		2-Pentanone	86	C5H10O	000107-87-9	64
5		Propane, 2-(ethenyloxy)-	86	C5H10O	000926-65-8	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

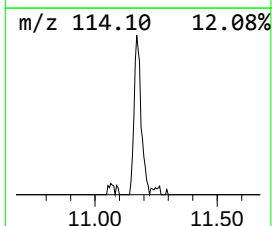
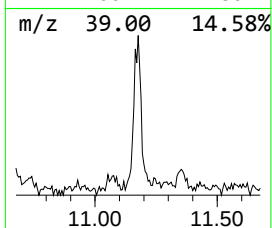
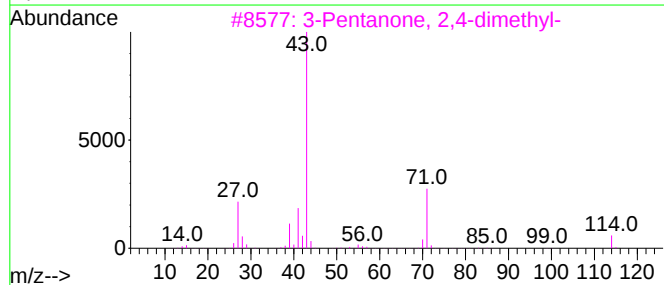
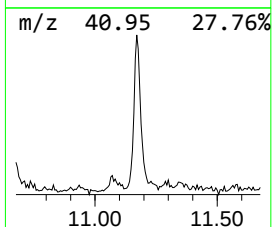
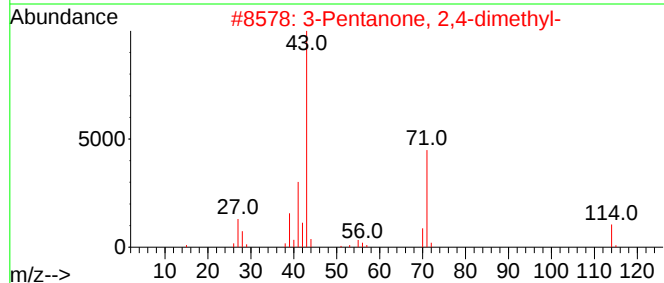
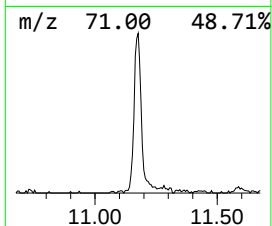
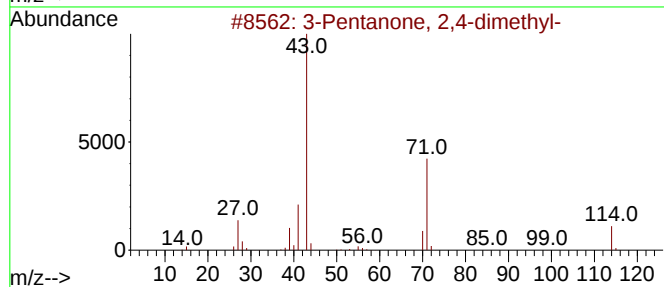
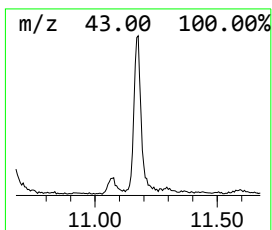
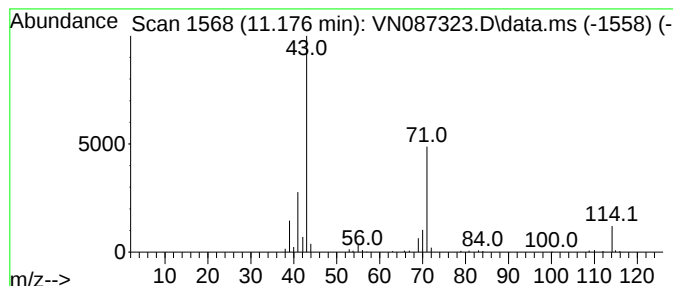
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 3-Pentanone, 2,4-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.176	8.65 ug/l	199307	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	80
2			3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	80
3			3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	78
4			3-Pentanone, 2,4-dimethyl-	114	C7H14O	000565-80-0	72
5			3-Hexanone, 2-methyl-	114	C7H14O	007379-12-6	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

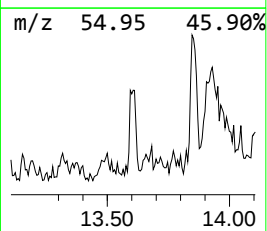
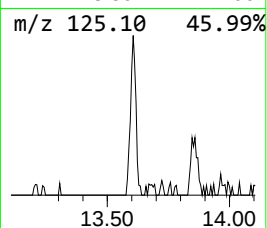
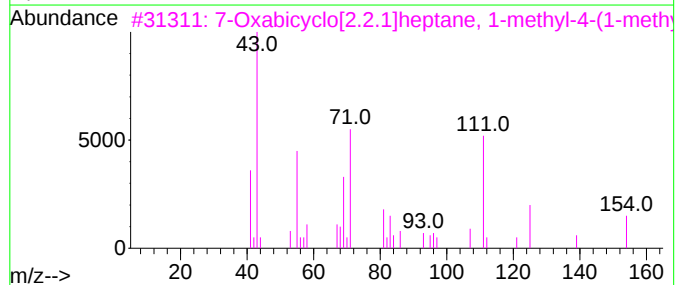
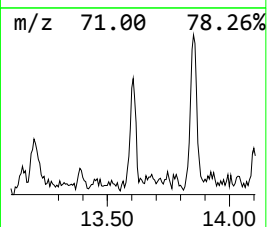
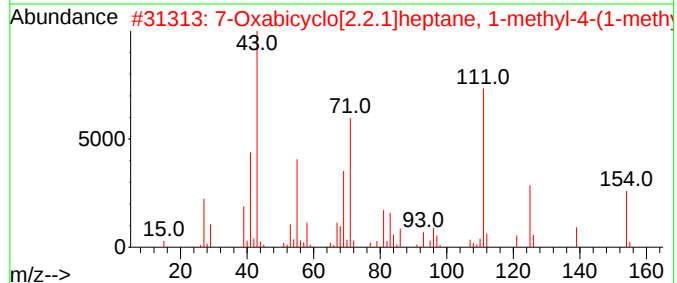
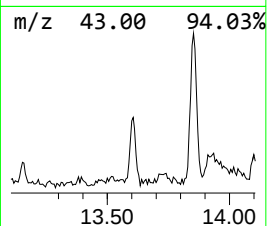
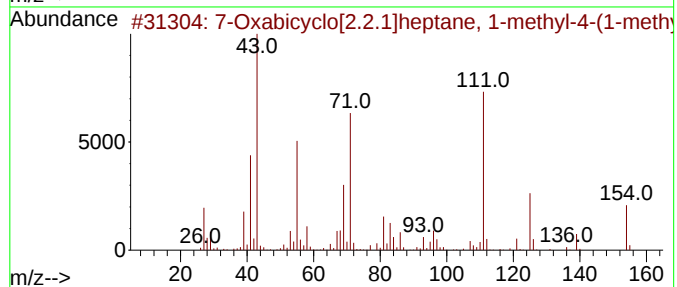
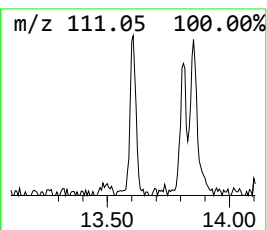
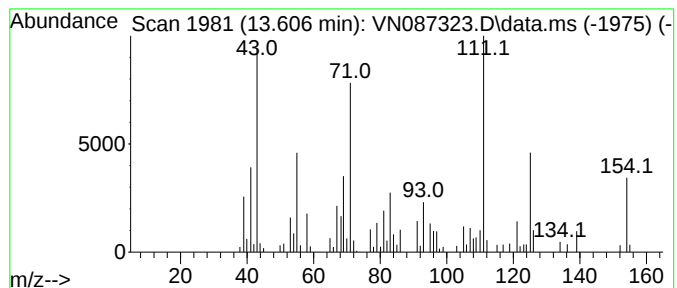
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.606	4.72 ug/l	108792	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	90
2			7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	83
3			7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	72
4			7-Oxabicyclo[2.2.1]heptane, 1-me...	154	C10H18O	000470-67-7	68
5			Terpinen-4-ol	154	C10H18O	000562-74-3	30



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

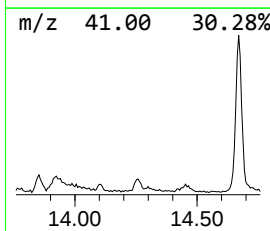
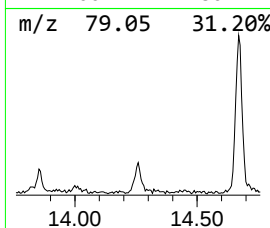
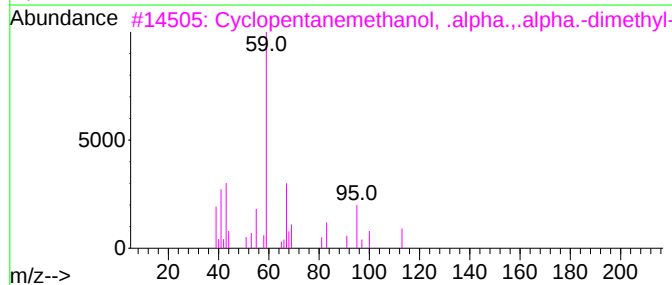
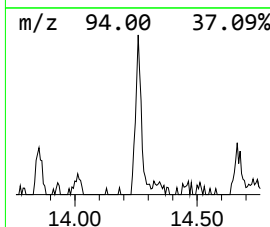
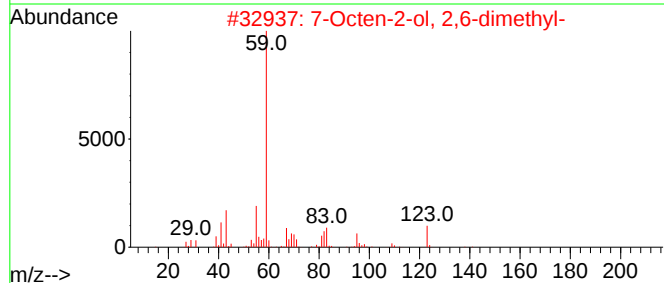
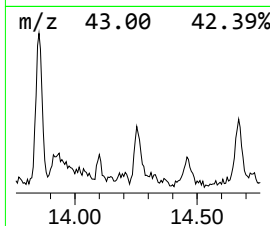
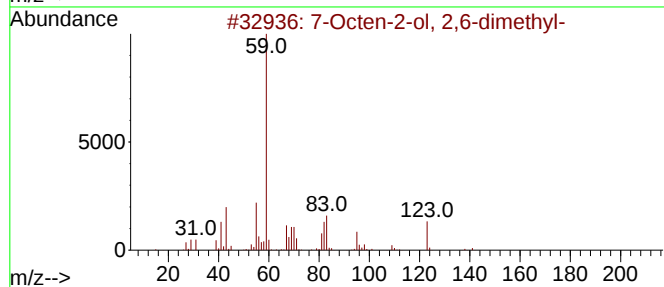
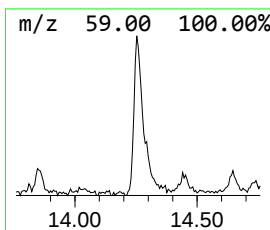
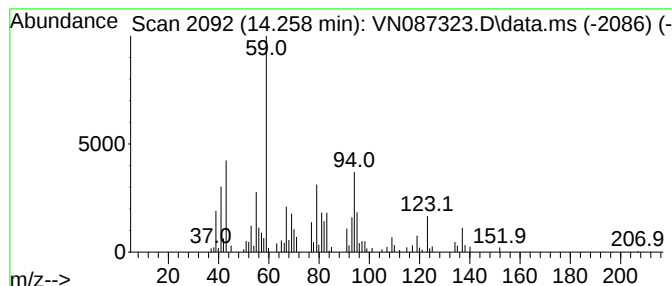
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 unknown14.259 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.259	6.40 ug/l	147502	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			7-Octen-2-ol, 2,6-dimethyl-	156	C10H20O	018479-58-8	47
2			7-Octen-2-ol, 2,6-dimethyl-	156	C10H20O	018479-58-8	47
3			Cyclopentanemethanol, .alpha.,.a...	128	C8H16O	001462-06-2	47
4			1,7-Octanediol, 3,7-dimethyl-	174	C10H22O2	000107-74-4	43
5			2-Hydroxymethyl-5-(1-hydroxy-1-i...	184	C10H16O3	097762-06-6	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

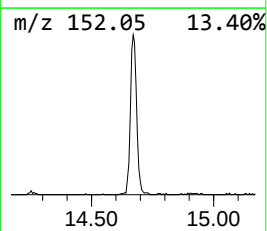
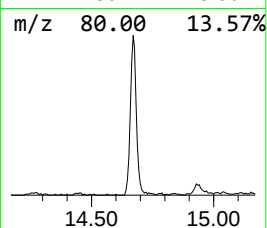
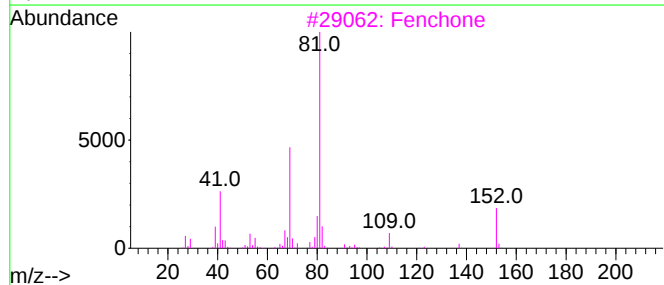
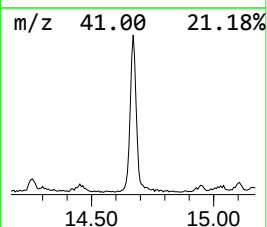
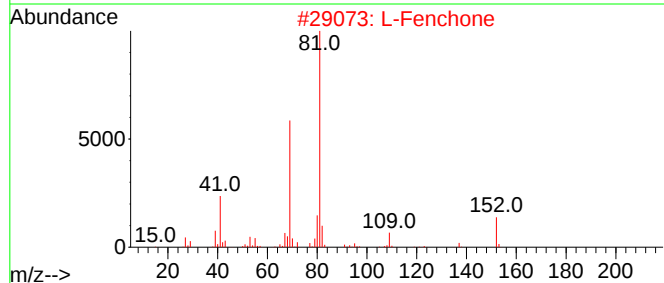
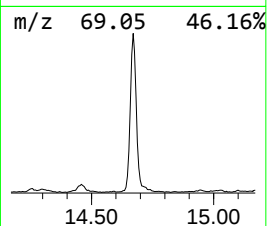
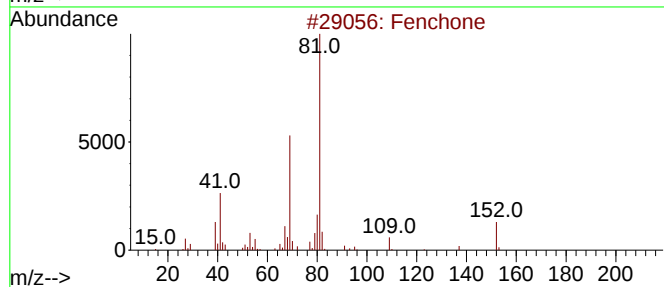
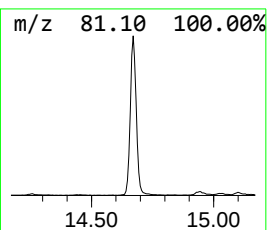
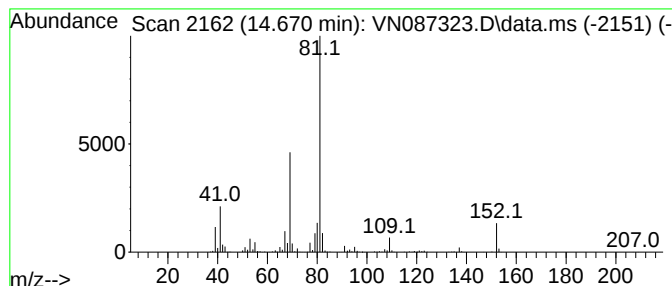
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Fenchone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.670	59.77 ug/l	1377830	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Fenchone	152	C10H16O	001195-79-5	95
2			L-Fenchone	152	C10H16O	007787-20-4	94
3			Fenchone	152	C10H16O	001195-79-5	94
4			Fenchone	152	C10H16O	001195-79-5	94
5			L-Fenchone	152	C10H16O	007787-20-4	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

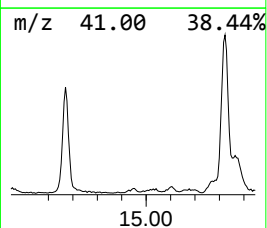
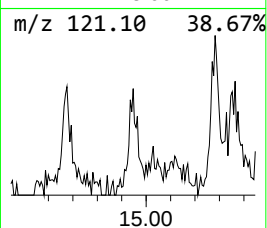
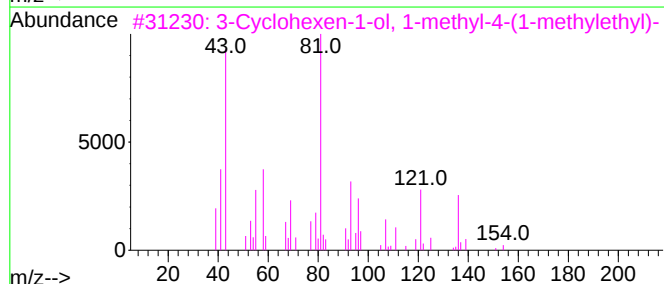
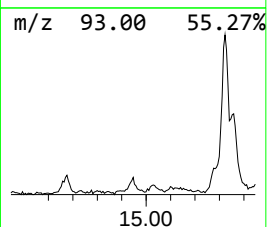
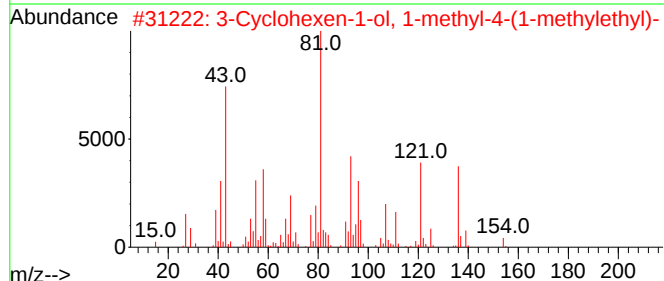
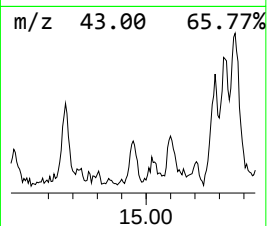
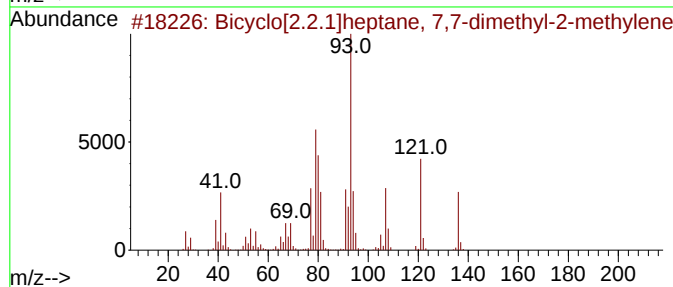
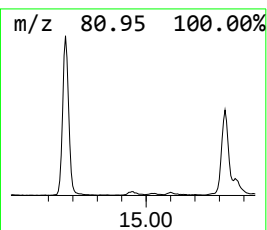
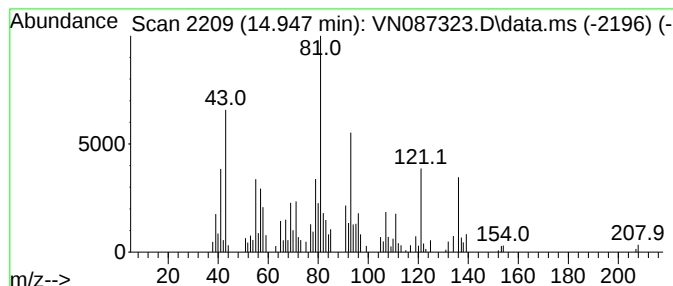
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Bicyclo[2.2.1]heptane, 7,7-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.947	6.07 ug/l	139987	Chlorobenzene-d5	11.865

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	87
2			3-Cyclohexen-1-ol, 1-methyl-4-(1...	154	C10H18O	000586-82-3	74
3			3-Cyclohexen-1-ol, 1-methyl-4-(1...	154	C10H18O	000586-82-3	68
4			Bicyclo[4.1.0]heptan-3-ol, 4,7,7...	154	C10H18O	004089-03-6	64
5			Bicyclo[4.1.0]heptan-3-ol, 3,7,7...	154	C10H18O	004017-79-2	60



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087323.D
Acq On : 10 Jul 2025 14:10
Operator : JC\MD
Sample : Q2554-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250709071-01 VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Isopropyl Alcohol	4.730	13.3	ug/l	1185620	1	7.824	2669210	30.0
2-Butanethiol	8.671	49.9	ug/l	810955	2	9.106	487899	30.0
2-Pentanone	9.535	5.3	ug/l	85908	2	9.106	487899	30.0
3-Pentanone, 2,...	11.176	8.7	ug/l	199307	3	11.865	691617	30.0
7-Oxabicyclo[2....	13.606	4.7	ug/l	108792	3	11.865	691617	30.0
unknown14.259	14.259	6.4	ug/l	147502	3	11.865	691617	30.0
Fenchone	14.670	59.8	ug/l	1377830	3	11.865	691617	30.0
Bicyclo[2.2.1]h...	14.947	6.1	ug/l	139987	3	11.865	691617	30.0