

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022024\
 Data File : VN081100.D
 Acq On : 20 Feb 2024 15:53
 Operator : JC\MD
 Sample : P1524-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20240768-AMENDED-COMP-39N-N-3-03

Quant Time: Feb 21 00:21:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

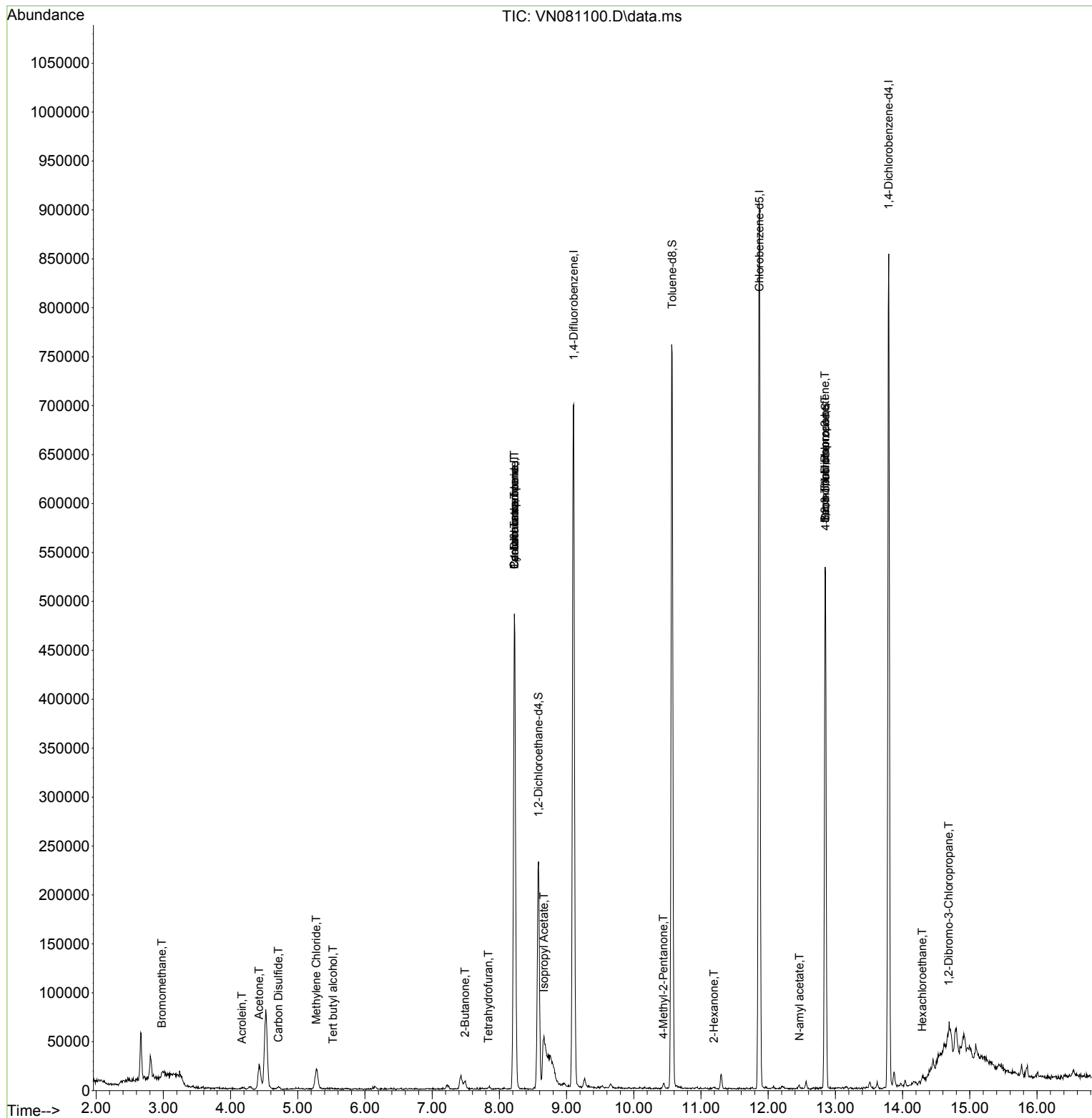
Internal Standards						
1) Pentafluorobenzene	8.224	168	336122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	629583	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	533820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	222524	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	185571	45.042	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.080%
35) Dibromofluoromethane	8.229	113	516	0.145	ug/l	0.06
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.280%#
50) Toluene-d8	10.570	98	525220	41.537	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	83.080%#
62) 4-Bromofluorobenzene	12.853	95	195332	41.112	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	82.220%#
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1701	Below Cal	#	74
5) Bromomethane	2.977	94	808	0.236	ug/l #	34
6) Chloroethane	3.106	64	138	Below Cal	#	21
11) Tert butyl alcohol	5.524	59	163	0.215	ug/l #	72
13) Acrolein	4.171	56	804	1.980	ug/l #	1
16) Acetone	4.424	43	47516	29.311	ug/l	94
17) Carbon Disulfide	4.712	76	4270	0.403	ug/l #	78
20) Methylene Chloride	5.277	84	16358	3.027	ug/l #	75
25) 2-Butanone	7.488	43	12494	4.771	ug/l	96
29) Tetrahydrofuran	7.835	42	1341	0.767	ug/l #	66
31) Cyclohexane	8.224	56	9002	1.265	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	29983	4.916	ug/l #	52
38) Carbon Tetrachloride	8.224	117	38126	6.179	ug/l #	17
43) Isopropyl Acetate	8.665	43	72222	7.502	ug/l #	58
49) 1,4-Dioxane	9.694	88	101	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.441	43	5485	0.990	ug/l #	79
59) 2-Hexanone	11.194	43	1585	0.361	ug/l	88
71) Bromoform	12.847	173	924	0.351	ug/l #	1
74) N-amyl acetate	12.464	43	3773	0.459	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	103784	20.527	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	103784	52.836	ug/l #	14
90) Hexachloroethane	14.294	117	4750	1.823	ug/l #	21
92) 1,2-Dibromo-3-Chloropr...	14.688	75	937	0.823	ug/l #	13

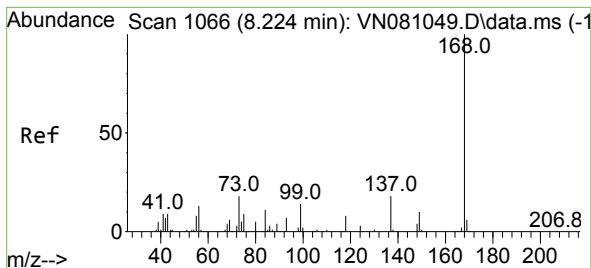
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 16 23:45:20 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

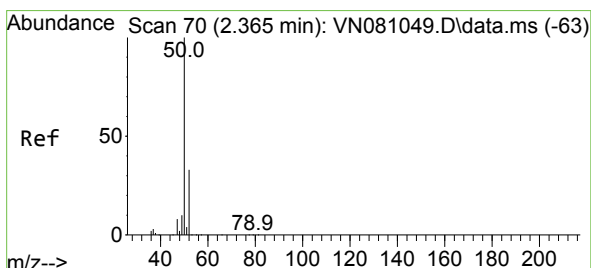
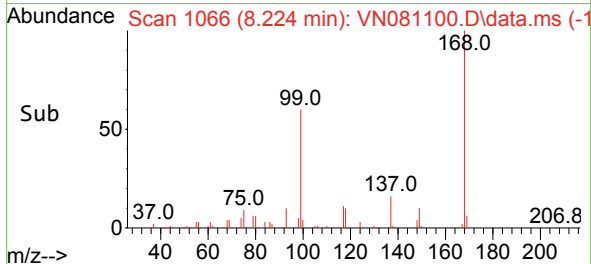
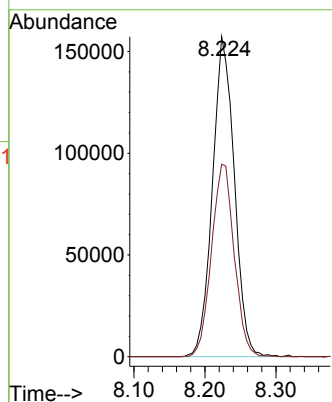
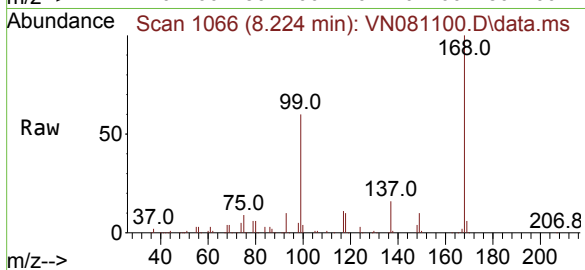
20240768-AMENDED-COMP-39N-N-3-03

Tgt Ion:168 Resp: 336122

Ion Ratio Lower Upper

168 100

99 60.2 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.000 min

Lab File: VN081100.D

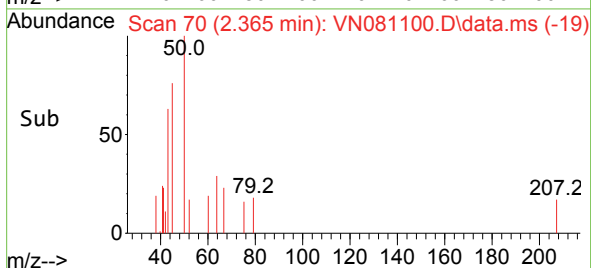
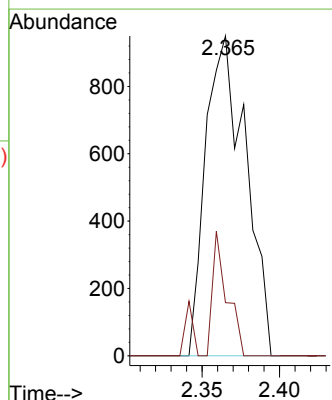
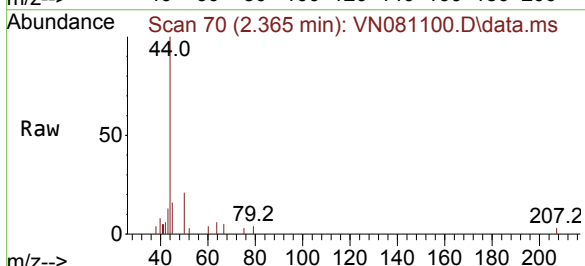
Acq: 20 Feb 2024 15:53

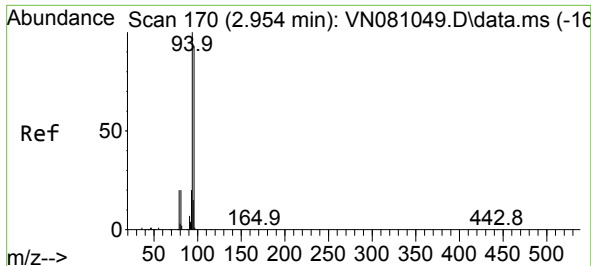
Tgt Ion: 50 Resp: 1701

Ion Ratio Lower Upper

50 100

52 16.6 25.0 37.4#

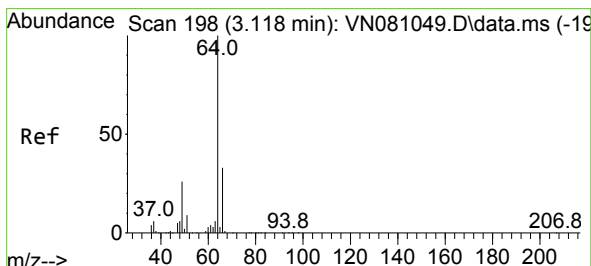
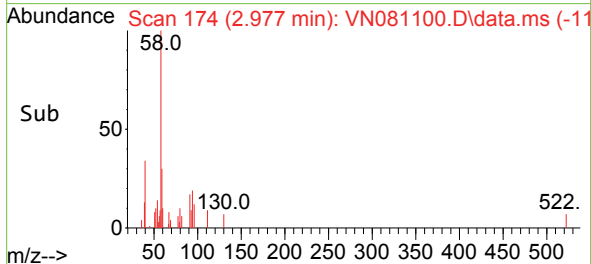
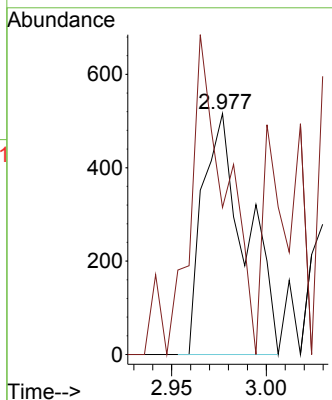
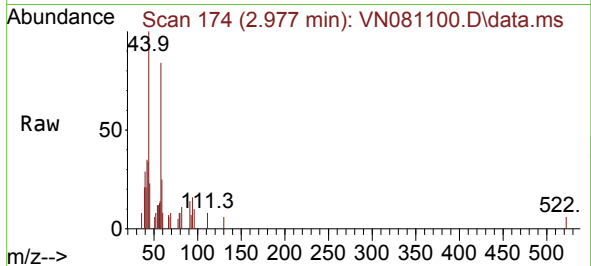




#5
Bromomethane
Concen: 0.236 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

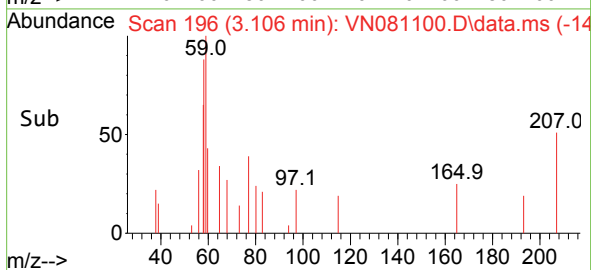
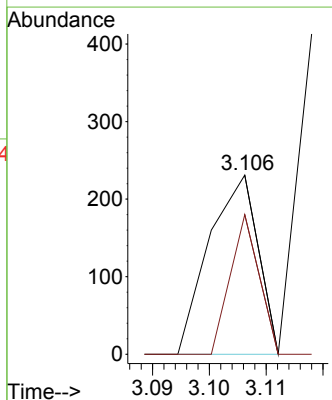
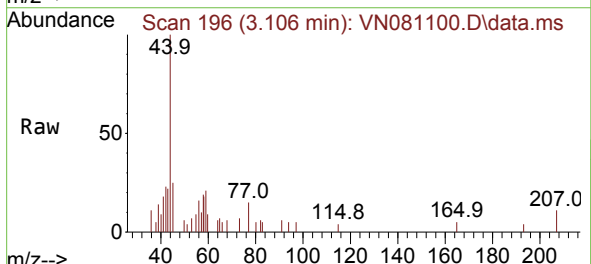
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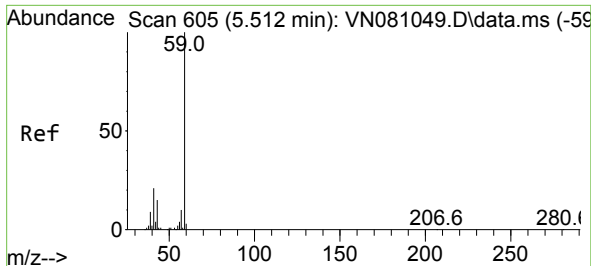
Tgt Ion: 94 Resp: 808
Ion Ratio Lower Upper
94 100
96 26.0 69.2 103.8#



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 64 Resp: 138
Ion Ratio Lower Upper
64 100
66 77.9 26.4 39.6#

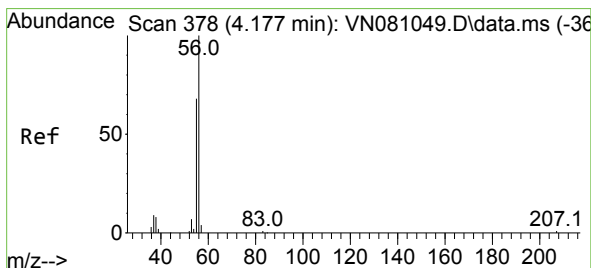
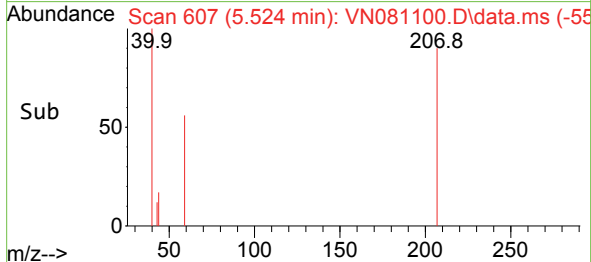
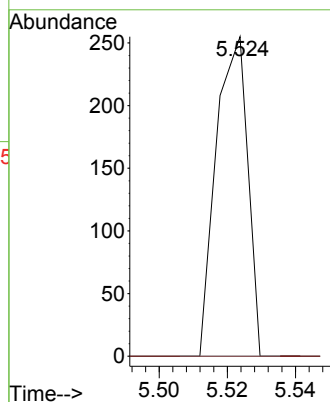
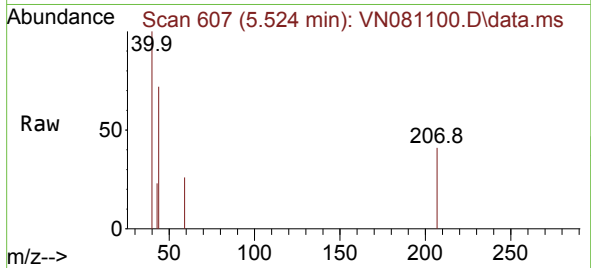




#11
Tert butyl alcohol
Concen: 0.215 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

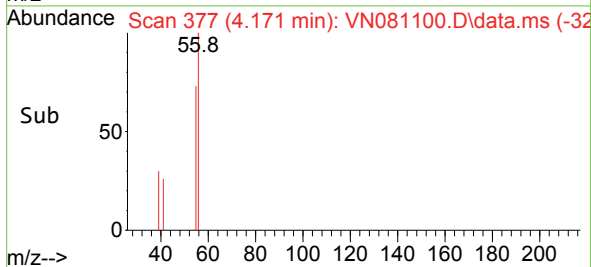
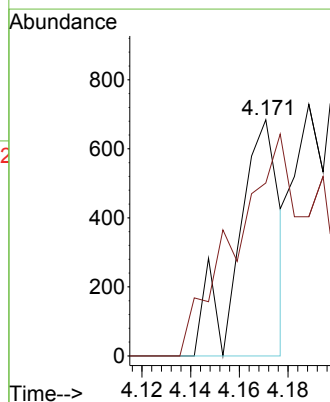
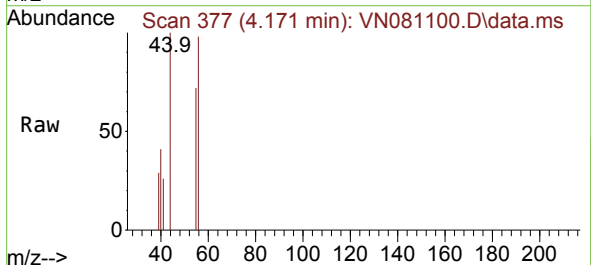
Instrument :
MSVOA_N
ClientSampleId :
20240768-AMENDED-COMP-39N-N-3-03

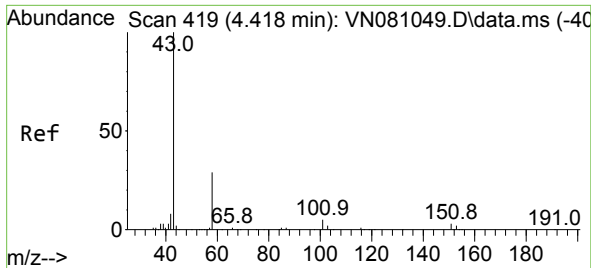
Tgt Ion: 59 Resp: 163
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 1.980 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 56 Resp: 804
Ion Ratio Lower Upper
56 100
55 213.3 55.3 82.9#

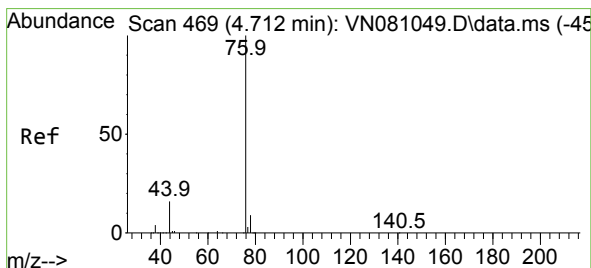
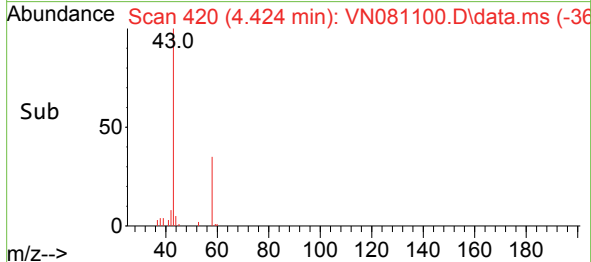
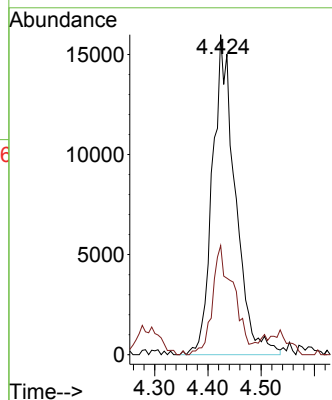
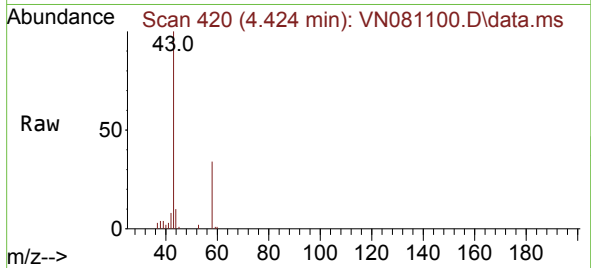




#16
Acetone
Concen: 29.311 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

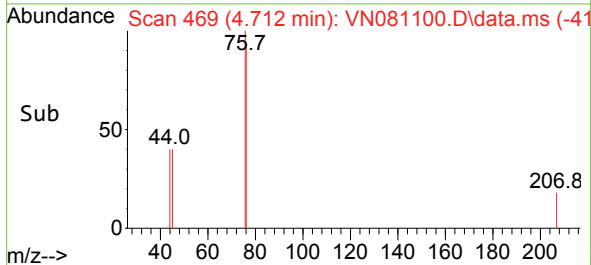
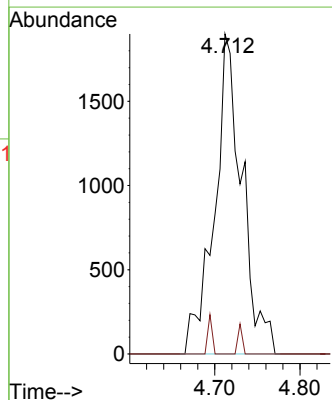
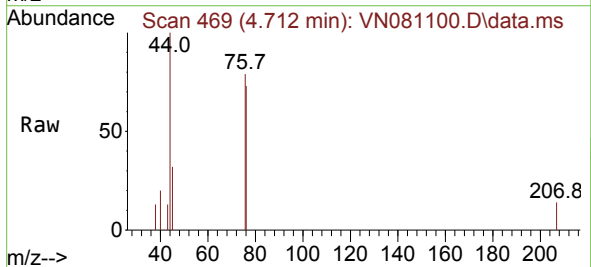
Instrument : MSVOA_N
ClientSampleId : 20240768-AMENDED-COMP-39N-N-3-03

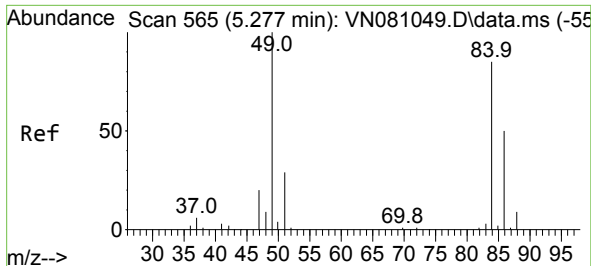
Tgt Ion: 43 Resp: 47516
Ion Ratio Lower Upper
43 100
58 34.1 24.8 37.2



#17
Carbon Disulfide
Concen: 0.403 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 76 Resp: 4270
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#

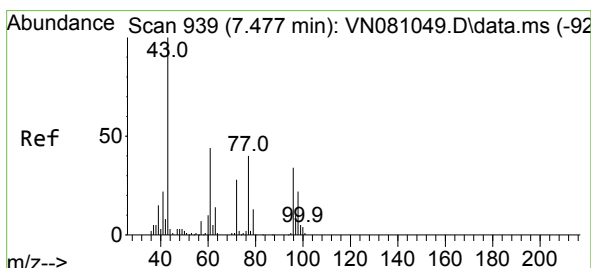
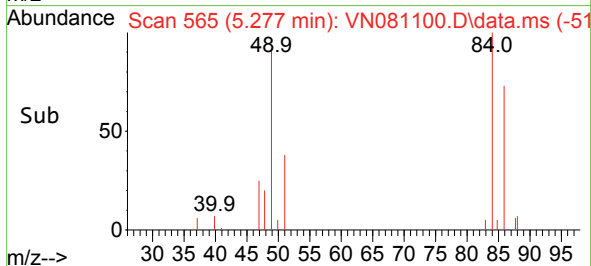
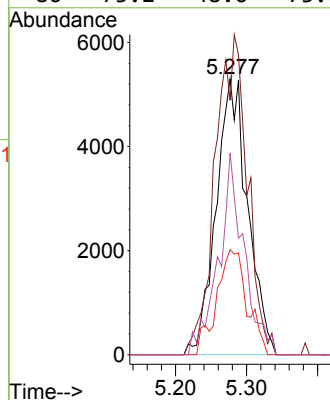
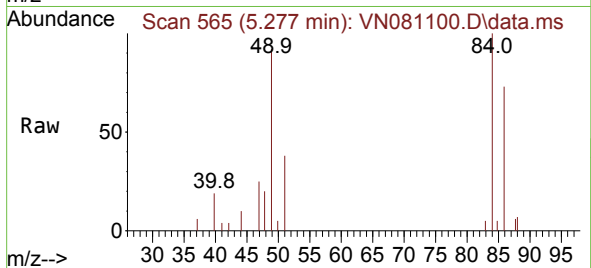




#20
Methylene Chloride
Concen: 3.027 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

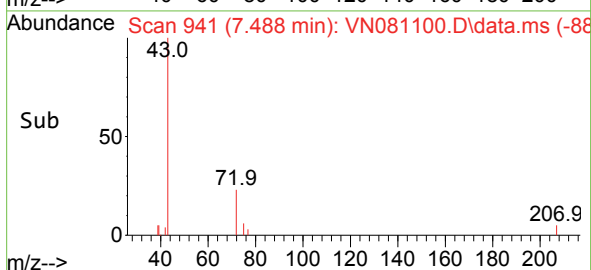
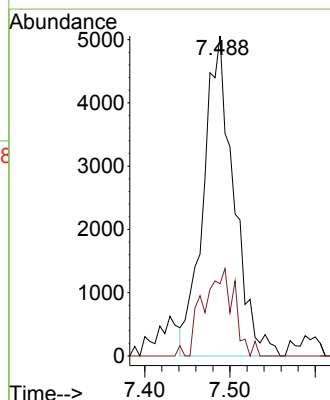
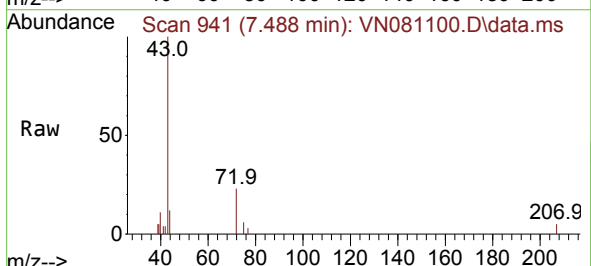
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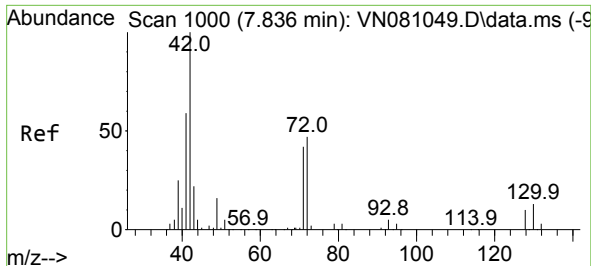
Tgt Ion:	84	Resp:	16358
Ion	Ratio	Lower	Upper
84	100		
49	92.3	108.1	162.1#
51	38.1	32.9	49.3
86	73.2	48.6	73.0#



#25
2-Butanone
Concen: 4.771 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081100.D
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Tgt Ion:	43	Resp:	12494
Ion	Ratio	Lower	Upper
43	100		
72	22.5	19.5	29.3

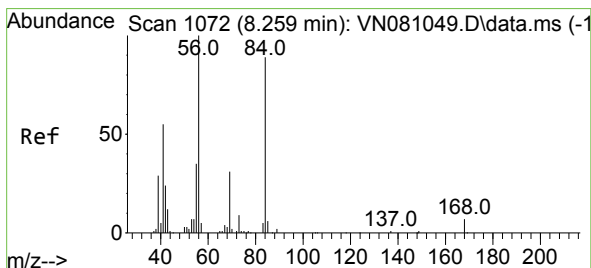
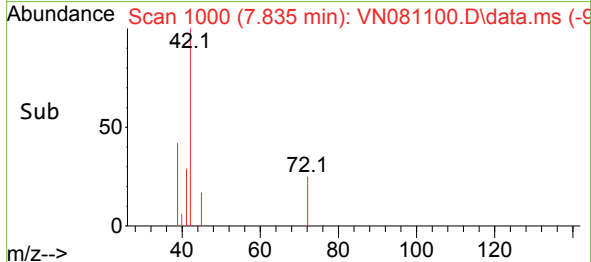
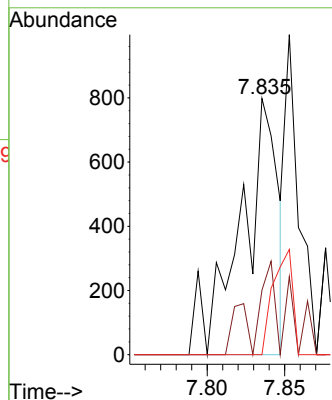
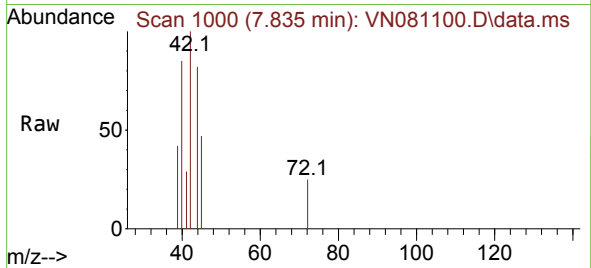




#29
Tetrahydrofuran
Concen: 0.767 ug/l
RT: 7.835 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

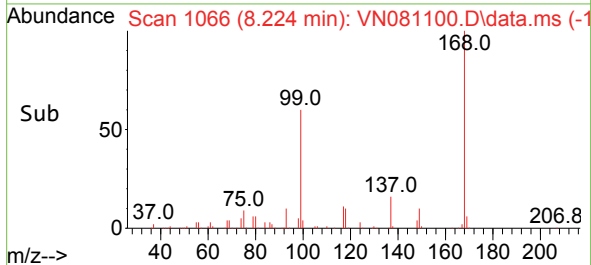
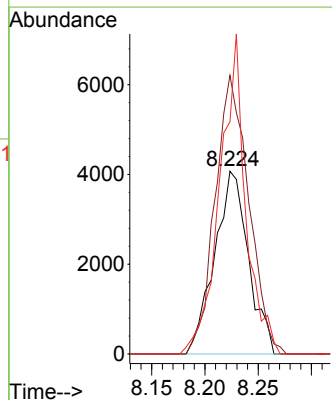
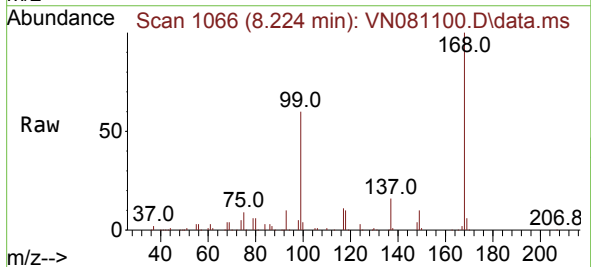
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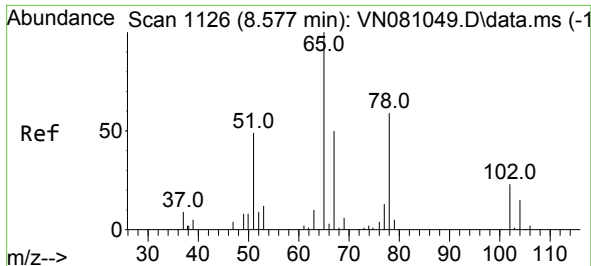
Tgt Ion: 42 Resp: 1341
Ion Ratio Lower Upper
42 100
72 13.0 31.1 46.7#
71 21.3 28.3 42.5#



#31
Cyclohexane
Concen: 1.265 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.036 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 56 Resp: 9002
Ion Ratio Lower Upper
56 100
69 152.3 20.1 30.1#
84 127.0 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 45.042 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

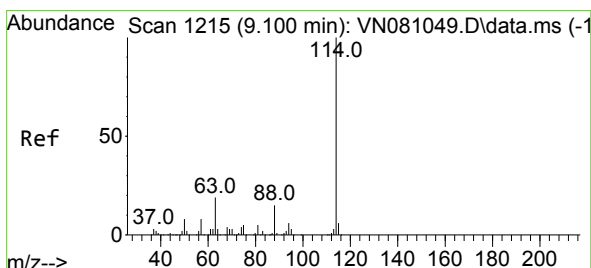
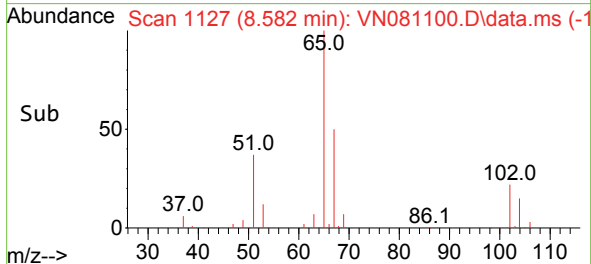
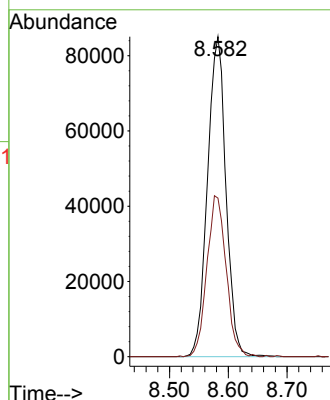
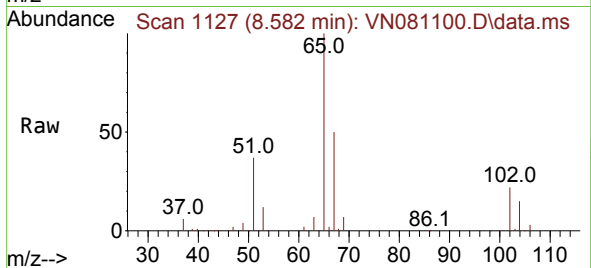
20240768-AMENDED-COMP-39N-N-3-03

Tgt Ion: 65 Resp: 185571

Ion Ratio Lower Upper

65 100

67 52.5 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

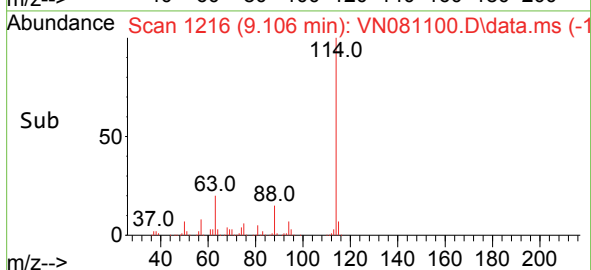
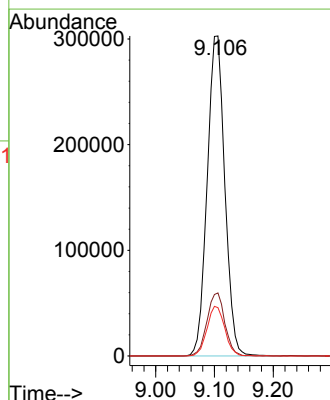
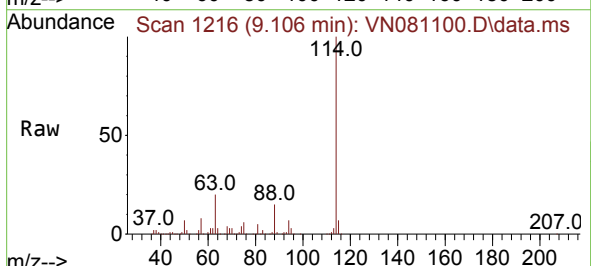
Tgt Ion: 114 Resp: 629583

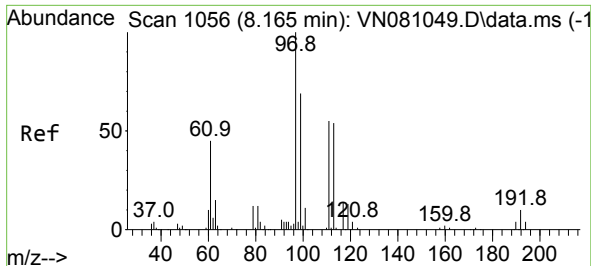
Ion Ratio Lower Upper

114 100

63 19.7 0.0 48.0

88 15.1 0.0 34.8

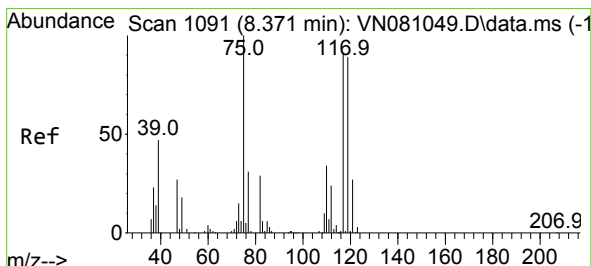
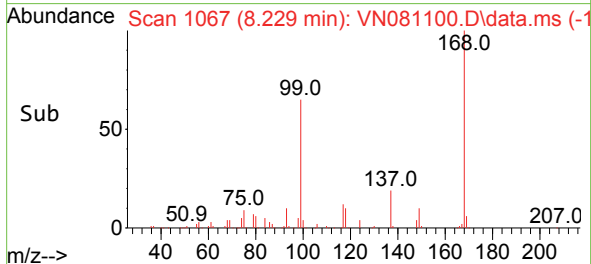
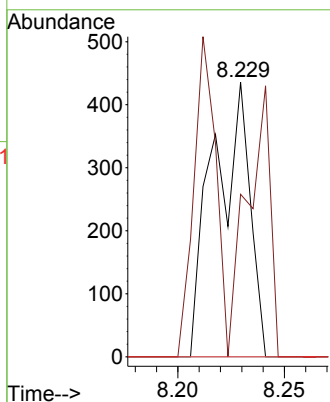
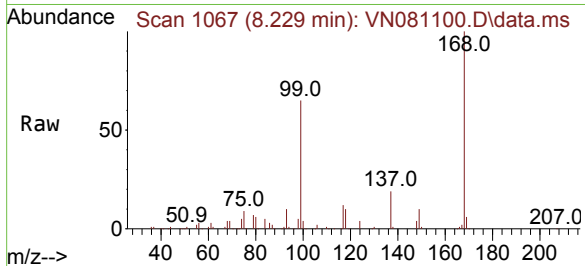




#35
Dibromofluoromethane
Concen: 0.145 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. 0.064 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

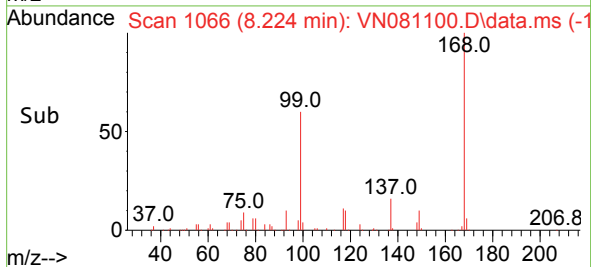
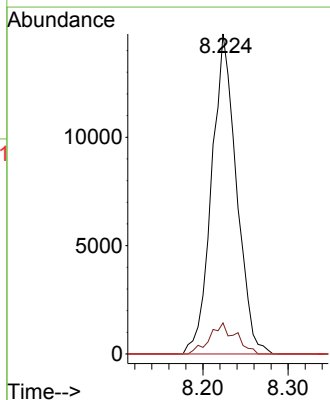
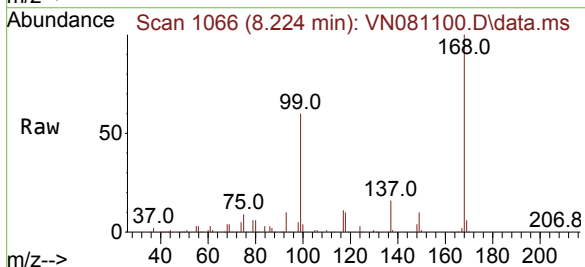
Instrument : MSVOA_N
ClientSampleId : 20240768-AMENDED-COMP-39N-N-3-03

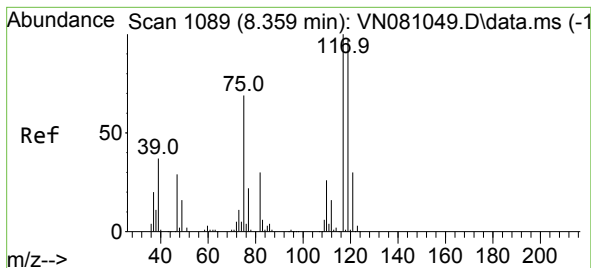
Tgt Ion:113 Resp: 516
Ion Ratio Lower Upper
113 100
111 63.2 82.2 123.4#
192 0.0 12.5 18.7#



#36
1,1-Dichloropropene
Concen: 4.916 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 75 Resp: 29983
Ion Ratio Lower Upper
75 100
110 10.1 16.0 48.0#
77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.179 ug/l

RT: 8.224 min Scan# 1100

Delta R.T. -0.136 min

Lab File: VN081100.D

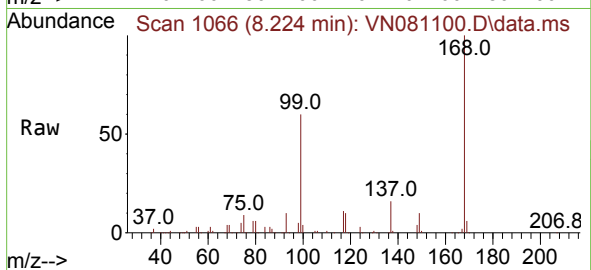
Acq: 20 Feb 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

20240768-AMENDED-COMP-39N-N-3-03



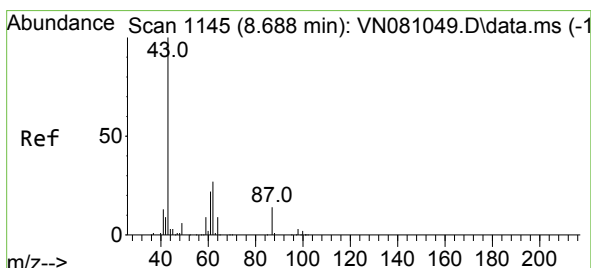
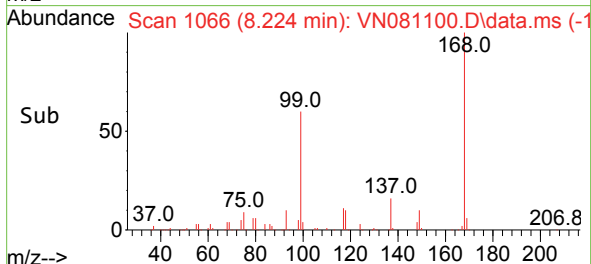
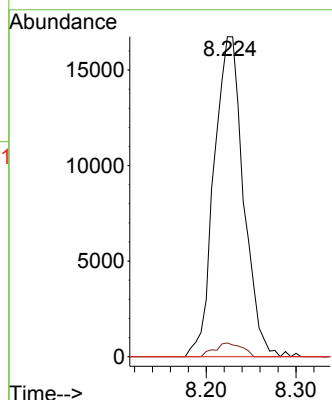
Tgt Ion:117 Resp: 38126

Ion Ratio Lower Upper

117 100

119 4.3 73.4 110.2#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 7.502 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.024 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

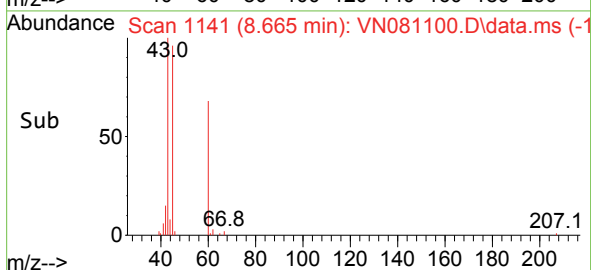
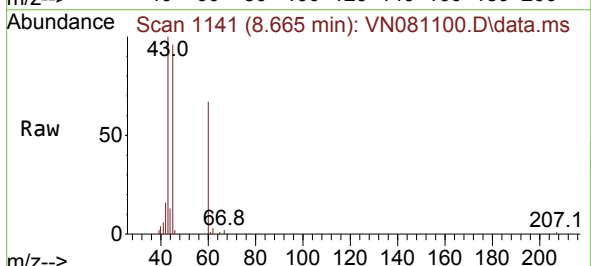
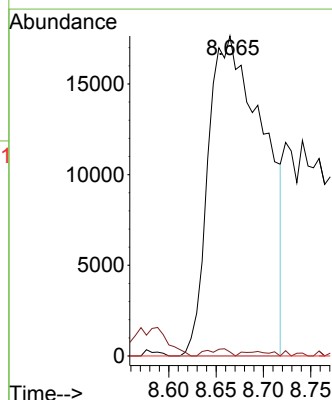
Tgt Ion: 43 Resp: 72222

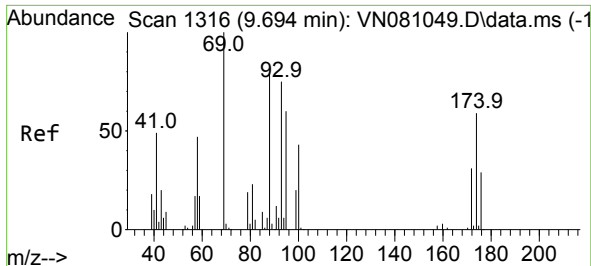
Ion Ratio Lower Upper

43 100

61 0.9 19.9 29.9#

87 0.0 9.0 13.6#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081100.D

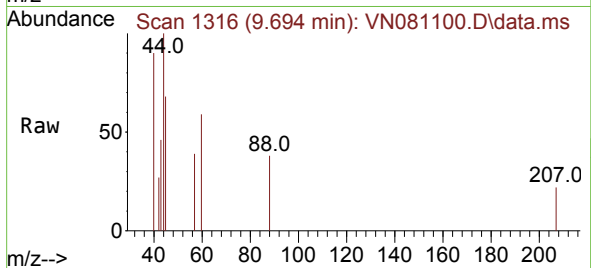
Acq: 20 Feb 2024 15:53

Instrument :

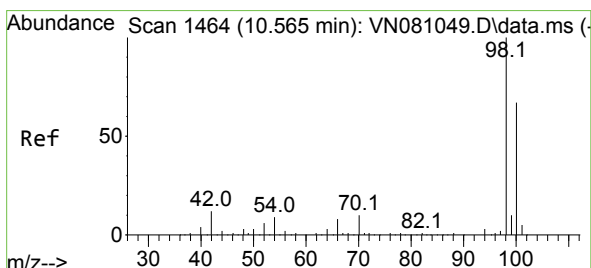
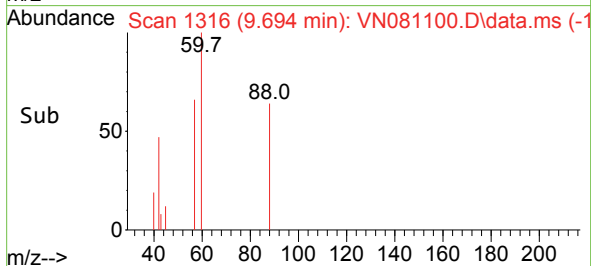
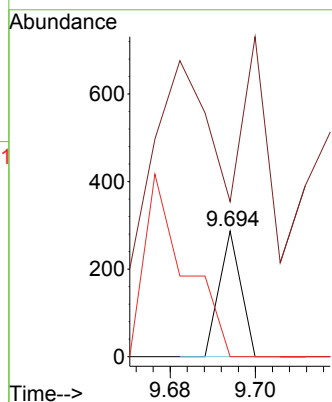
MSVOA_N

ClientSampleId :

20240768-AMENDED-COMP-39N-N-3-03



Tgt Ion:	88	Resp:	101
Ion	Ratio	Lower	Upper
88	100		
43	224.8	30.1	45.1#
58	274.3	63.9	95.9#



#50

Toluene-d8

Concen: 41.537 ug/l

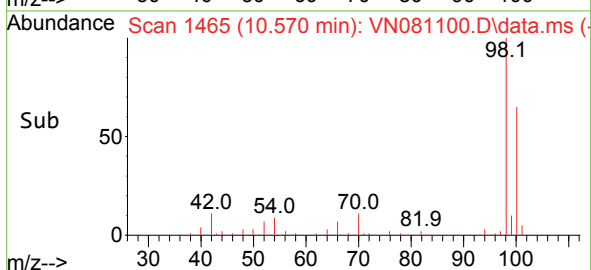
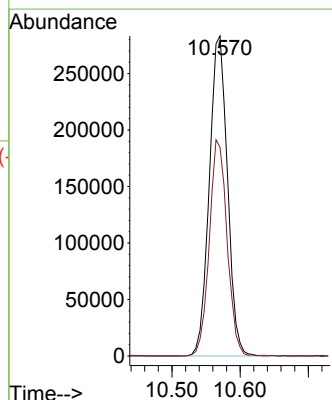
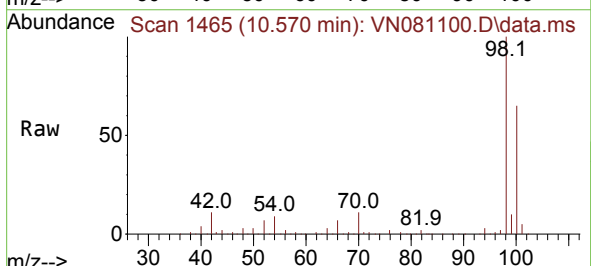
RT: 10.570 min Scan# 1465

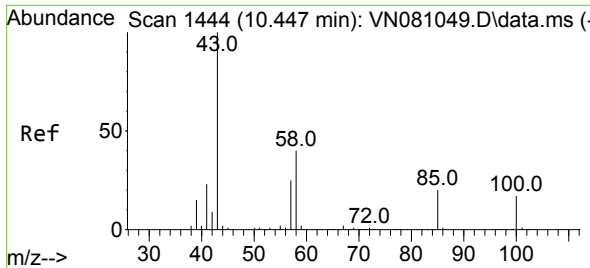
Delta R.T. 0.006 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

Tgt Ion:	98	Resp:	525220
Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.4	77.0

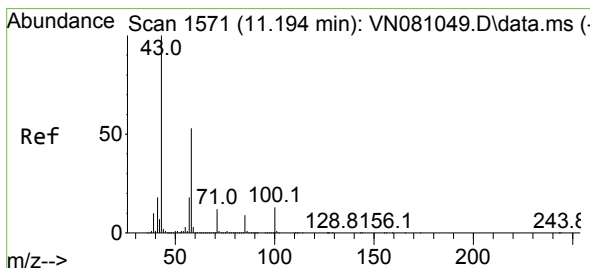
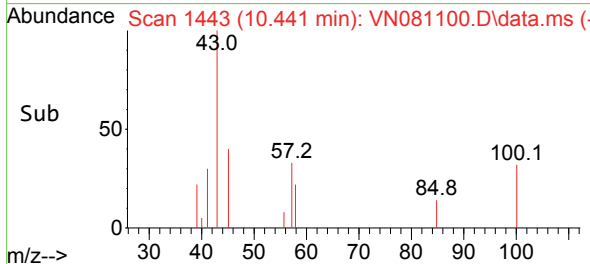
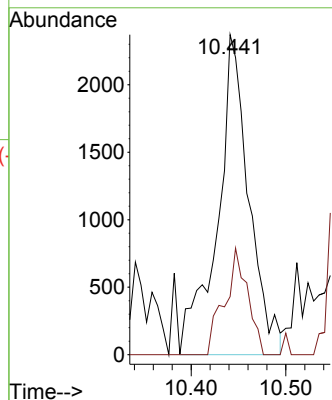
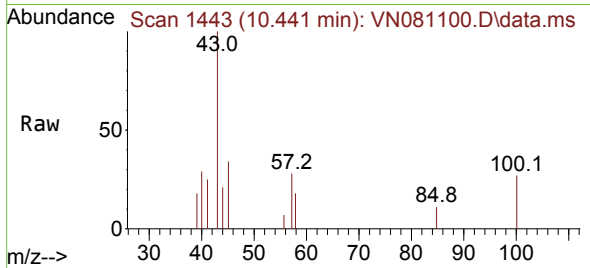




#51
4-Methyl-2-Pentanone
Concen: 0.990 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

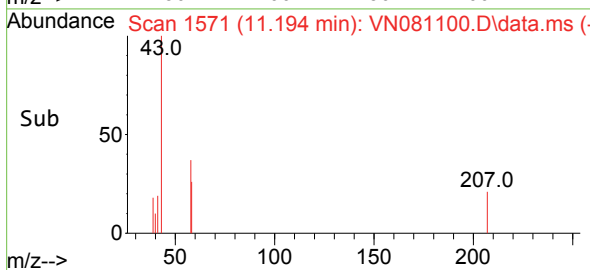
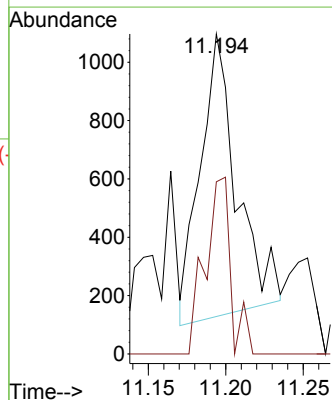
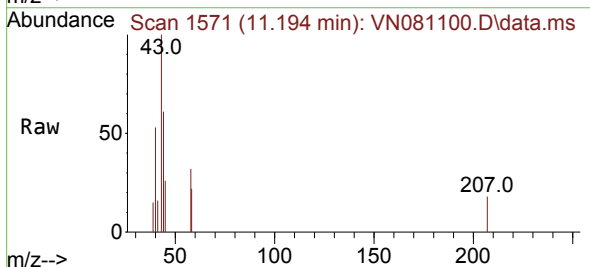
Instrument :
MSVOA_N
ClientSampleId :
20240768-AMENDED-COMP-39N-N-3-03

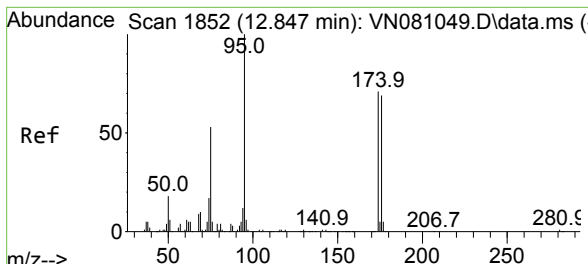
Tgt Ion: 43 Resp: 5485
Ion Ratio Lower Upper
43 100
58 24.4 29.4 44.0#



#59
2-Hexanone
Concen: 0.361 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion: 43 Resp: 1585
Ion Ratio Lower Upper
43 100
58 43.7 25.9 77.8

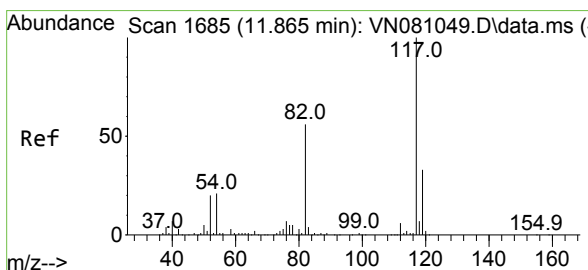
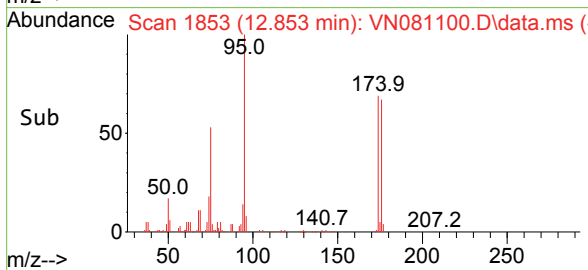
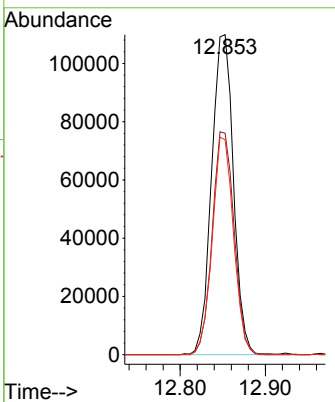
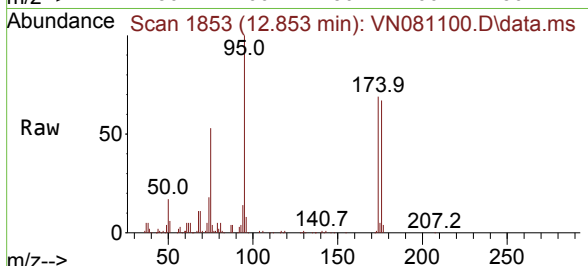




#62
4-Bromofluorobenzene
Concen: 41.112 ug/l
RT: 12.853 min Scan# 11853
Delta R.T. 0.006 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

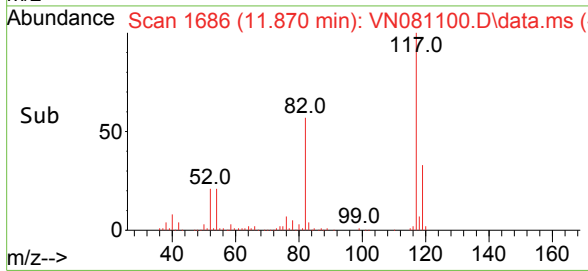
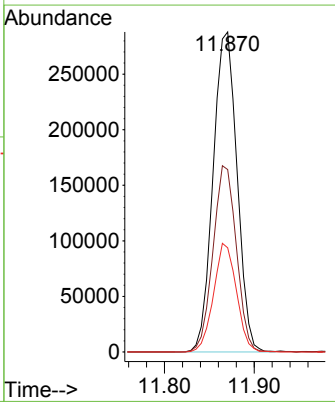
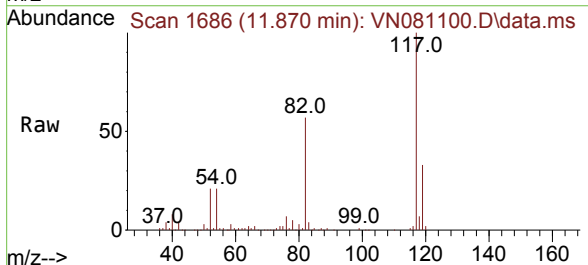
Instrument : MSVOA_N
ClientSampleId : 20240768-AMENDED-COMP-39N-N-3-03

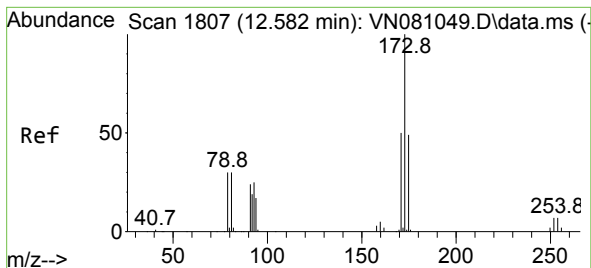
Tgt Ion:	95	Resp:	195332
Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	120.4
176	66.0	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081100.D
Acq: 20 Feb 2024 15:53

Tgt Ion:	117	Resp:	533820
Ion	Ratio	Lower	Upper
117	100		
82	57.0	52.7	79.1
119	32.6	25.3	37.9





#71

Bromoform

Concen: 0.351 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.264 min

Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

Instrument :

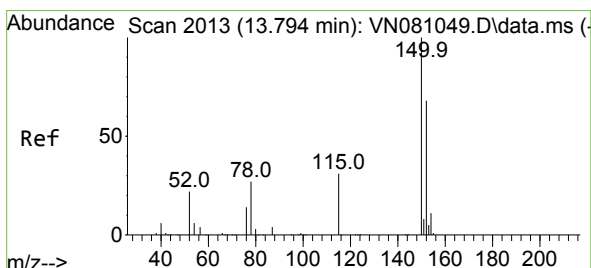
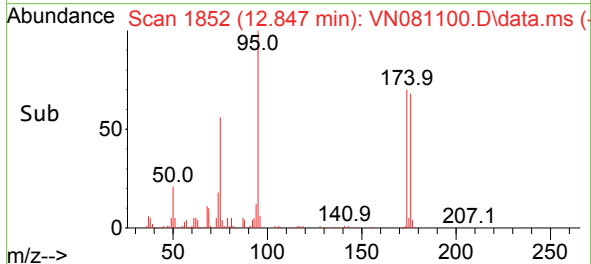
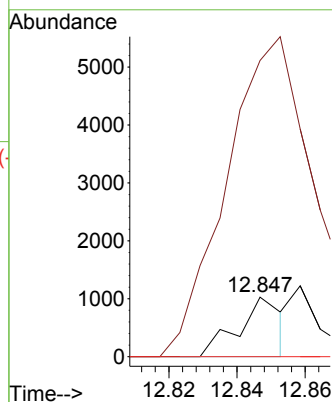
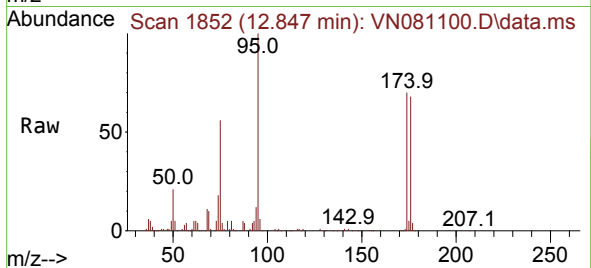
MSVOA_N

ClientSampleId :

20240768-AMENDED-COMP-39N-N-3-03

Tgt Ion:173 Resp: 924

Ion	Ratio	Lower	Upper
173	100		
175	887.0	23.1	69.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

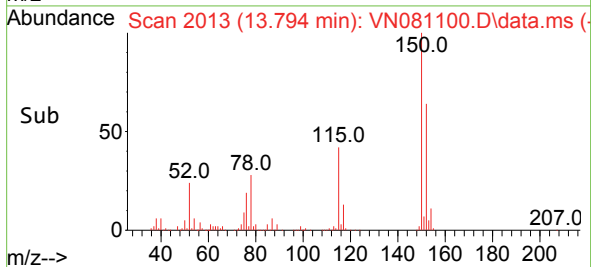
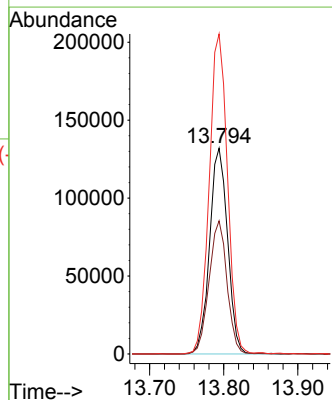
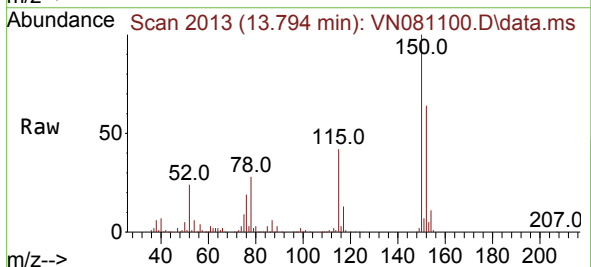
Delta R.T. -0.000 min

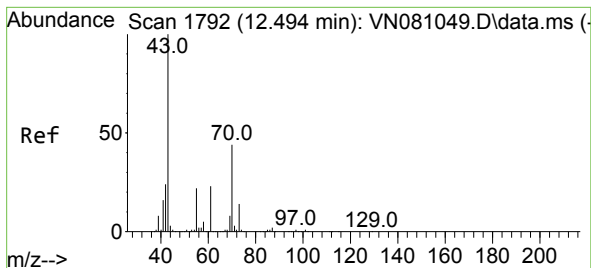
Lab File: VN081100.D

Acq: 20 Feb 2024 15:53

Tgt Ion:152 Resp: 222524

Ion	Ratio	Lower	Upper
152	100		
115	64.7	32.3	96.8
150	157.2	0.0	339.8





#74

N-amy1 acetate

Concen: 0.459 ug/l

RT: 12.464 min Scan# 1

Delta R.T. -0.030 min

Lab File: VN081100.D

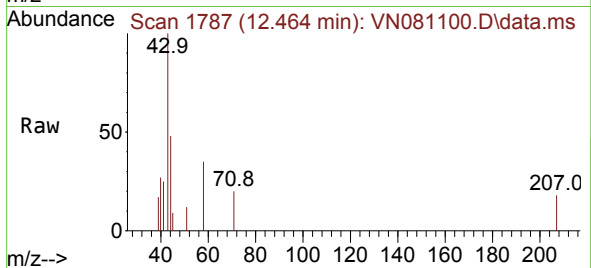
Acq: 20 Feb 2024 15:53

Instrument :

MSVOA_N

ClientSampleId :

20240768-AMENDED-COMP-39N-N-3-03



Tgt Ion: 43 Resp: 3773

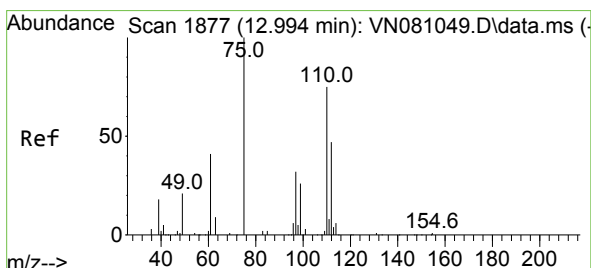
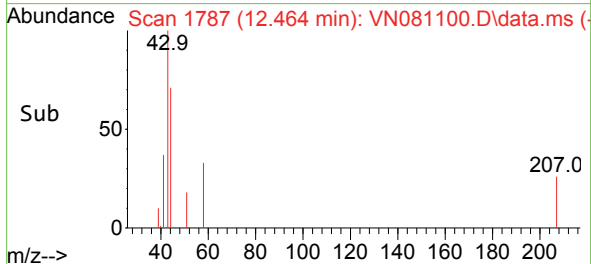
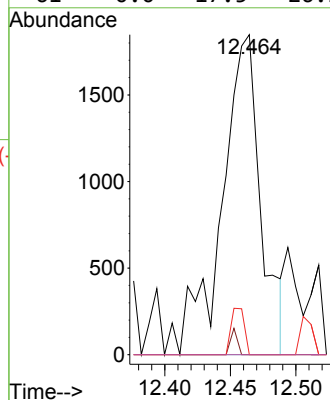
Ion Ratio Lower Upper

43 100

70 1.4 30.1 45.1#

55 5.0 17.0 25.4#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 20.527 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081100.D

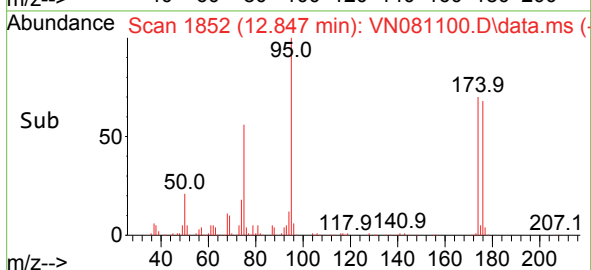
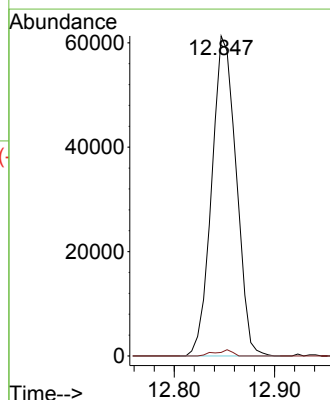
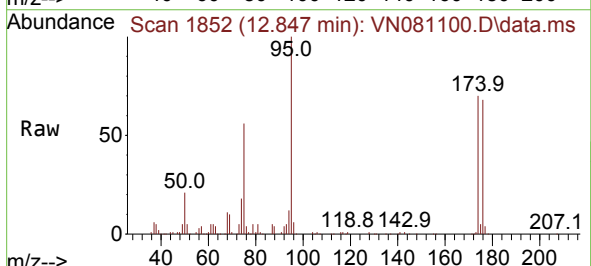
Acq: 20 Feb 2024 15:53

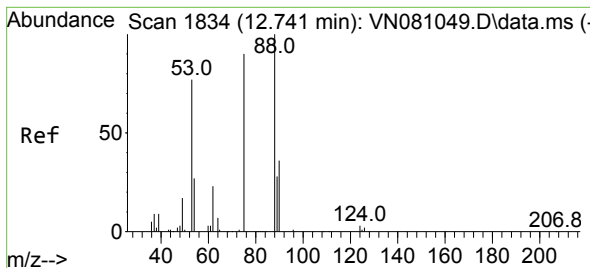
Tgt Ion: 75 Resp: 103784

Ion Ratio Lower Upper

75 100

77 1.4 91.0 272.8#

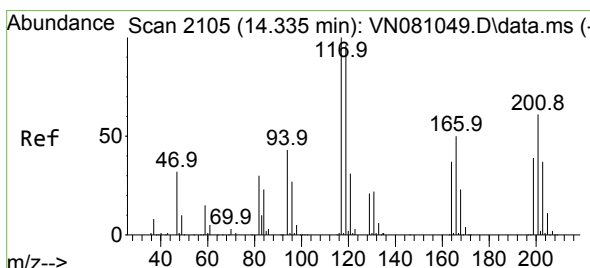
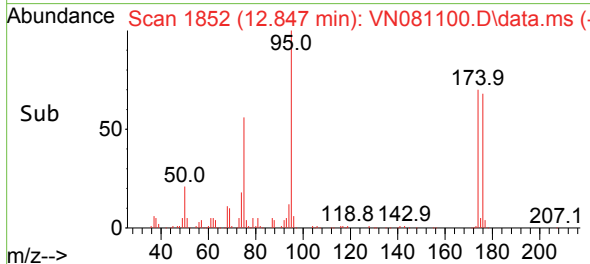
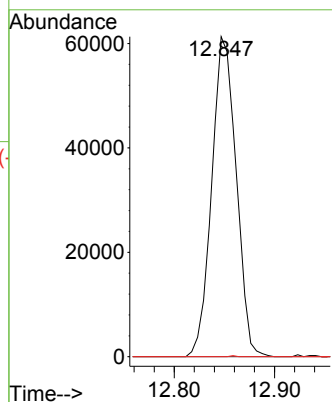
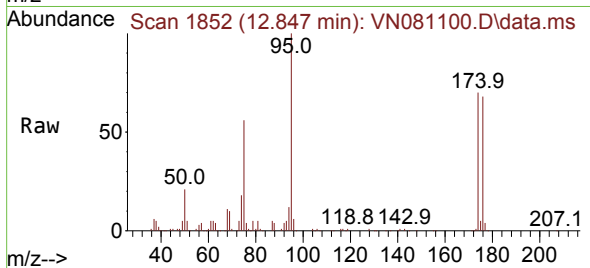




#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.836 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081100.D
 Acq: 20 Feb 2024 15:53

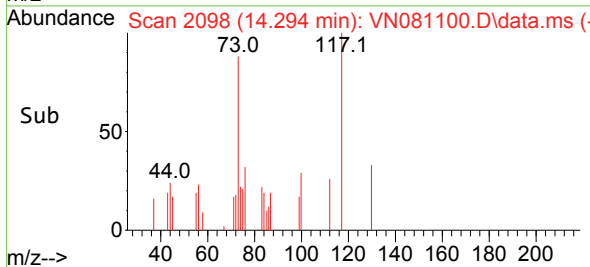
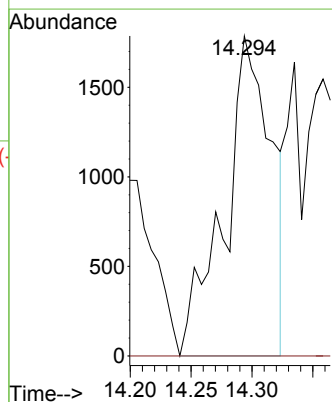
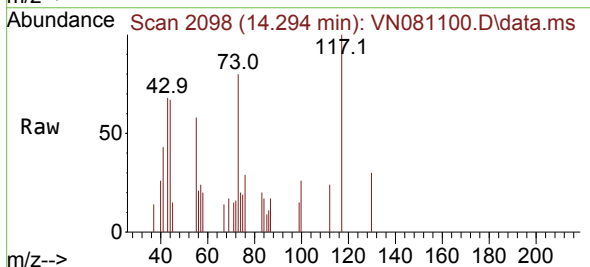
Instrument : MSVOA_N
 ClientSampleId : 20240768-AMENDED-COMP-39N-N-3-03

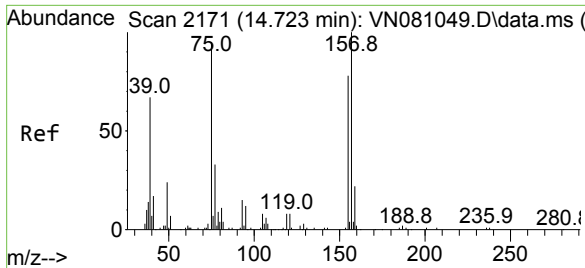
Tgt Ion: 75 Resp: 103784
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.1 33.4 50.0#



#90
 Hexachloroethane
 Concen: 1.823 ug/l
 RT: 14.294 min Scan# 2098
 Delta R.T. -0.041 min
 Lab File: VN081100.D
 Acq: 20 Feb 2024 15:53

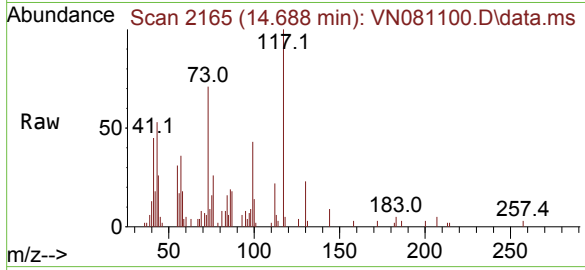
Tgt Ion: 117 Resp: 4750
 Ion Ratio Lower Upper
 117 100
 201 0.0 30.0 90.0#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.823 ug/l
 RT: 14.688 min Scan# 21
 Delta R.T. -0.036 min
 Lab File: VN081100.D
 Acq: 20 Feb 2024 15:53

Instrument :
 MSVOA_N
 ClientSampleId :
 20240768-AMENDED-COMP-39N-N-3-03



Tgt Ion:	75	Resp:	937
Ion Ratio	Lower	Upper	
75	100		
155	0.0	31.8	95.4#
157	0.0	41.1	123.4#

