

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021924\
 Data File : VN081074.D
 Acq On : 19 Feb 2024 14:31
 Operator : JC\MD
 Sample : PB159057ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#02

Quant Time: Feb 20 00:22:11 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)

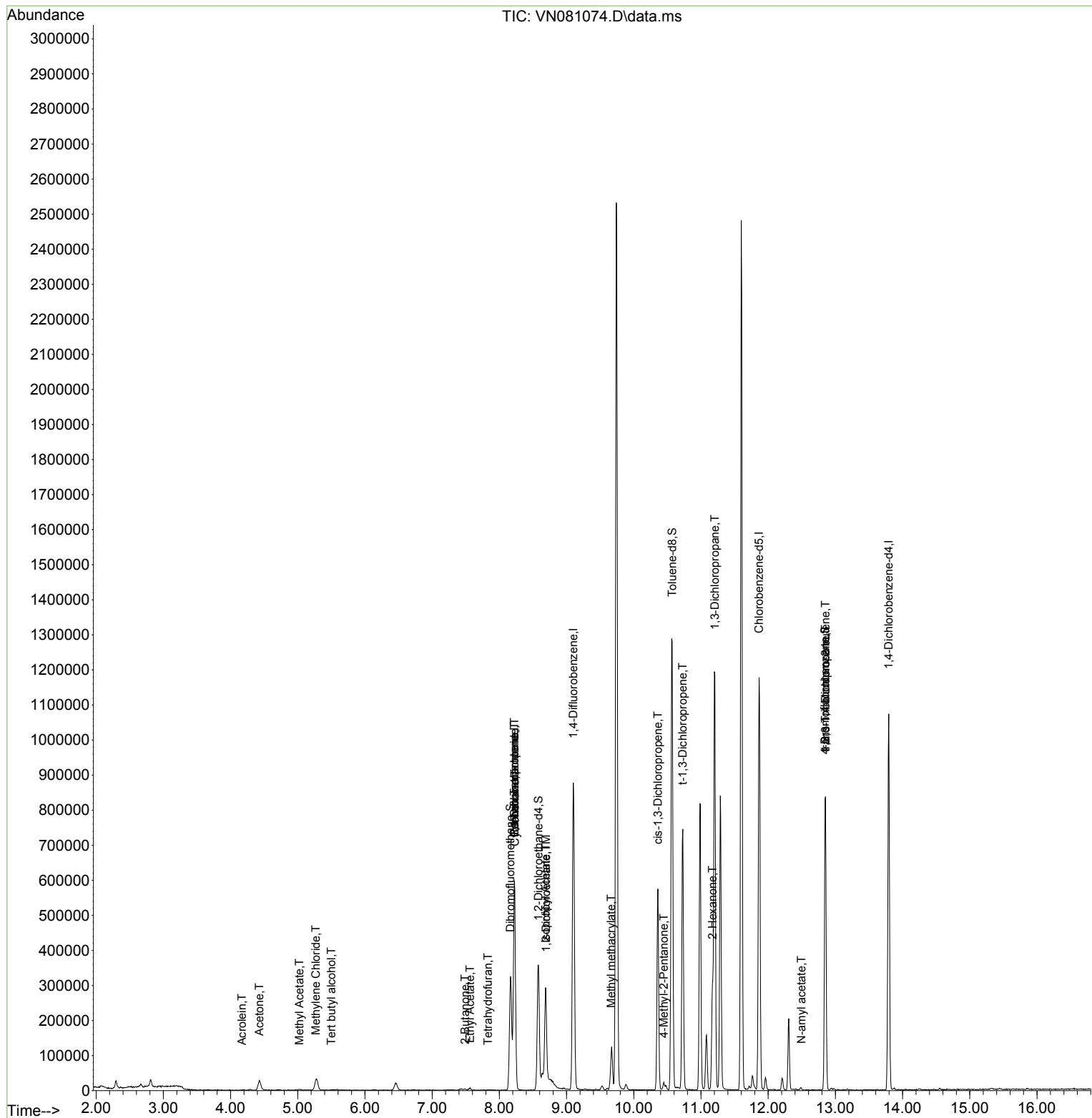
Internal Standards						
1) Pentafluorobenzene	8.224	168	414366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	777285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	688385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	275707	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	293996	57.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.780%			
35) Dibromofluoromethane	8.165	113	232678	52.938	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.880%			
50) Toluene-d8	10.571	98	899320	57.608	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 115.220%#			
62) 4-Bromofluorobenzene	12.847	95	300889	51.295	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.580%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	1669	Below Cal	#	69
6) Chloroethane	3.106	64	638	Below Cal	#	42
11) Tert butyl alcohol	5.500	59	269	0.288	ug/l #	72
13) Acrolein	4.171	56	879	1.756	ug/l #	69
16) Acetone	4.430	43	51989	26.015	ug/l	99
18) Methyl Acetate	5.024	43	2566	0.526	ug/l	94
20) Methylene Chloride	5.271	84	25806	4.139	ug/l #	84
25) 2-Butanone	7.488	43	5245	1.625	ug/l	97
29) Tetrahydrofuran	7.830	42	570	0.264	ug/l #	89
31) Cyclohexane	8.230	56	9974	1.137	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	35190	4.673	ug/l #	50
37) Ethyl Acetate	7.565	43	8225	1.210	ug/l	98
38) Carbon Tetrachloride	8.224	117	46048	6.044	ug/l #	18
42) 1,2-Dichloroethane	8.694	62	2170	0.285	ug/l #	75
43) Isopropyl Acetate	8.688	43	397174	33.416	ug/l #	85
48) Methyl methacrylate	9.665	41	7238	1.309	ug/l #	48
49) 1,4-Dioxane	9.694	88	369	Below Cal	#	18
51) 4-Methyl-2-Pentanone	10.447	43	12398	1.813	ug/l	94
53) t-1,3-Dichloropropene	10.729	75	2160	0.258	ug/l #	83
54) cis-1,3-Dichloropropene	10.359	75	108131	11.970	ug/l #	55
57) 1,3-Dichloropropane	11.206	76	13765	1.500	ug/l #	43
59) 2-Hexanone	11.171	43	238275	43.957	ug/l #	26
74) N-amyl acetate	12.494	43	3163	0.310	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	160746	25.661	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	160746	66.049	ug/l #	14

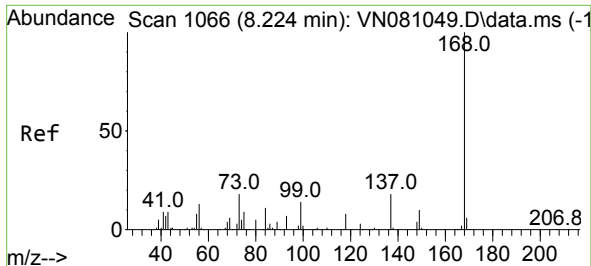
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN081074.D
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Sample : PB159057ZHE#02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
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Quant Time: Feb 20 00:22:11 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

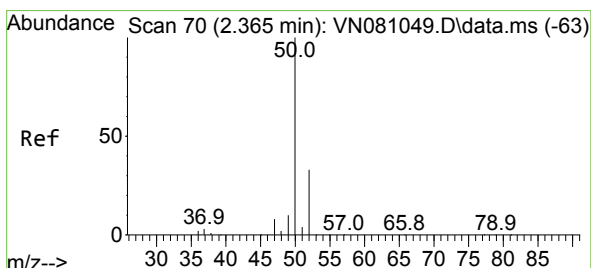
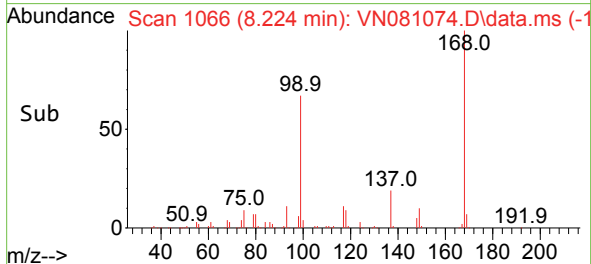
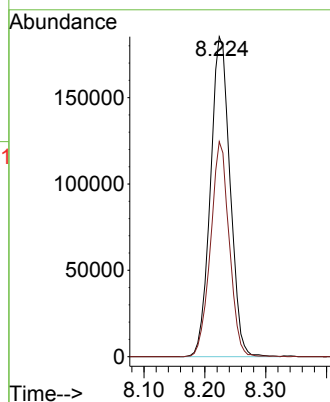
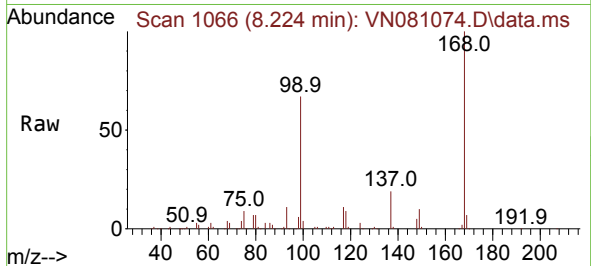




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

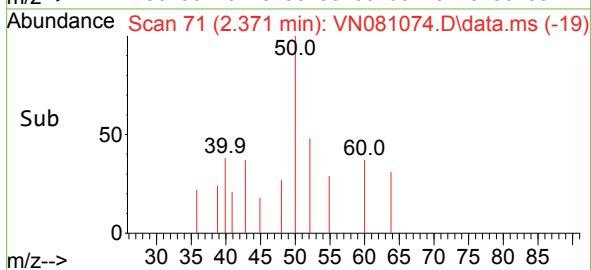
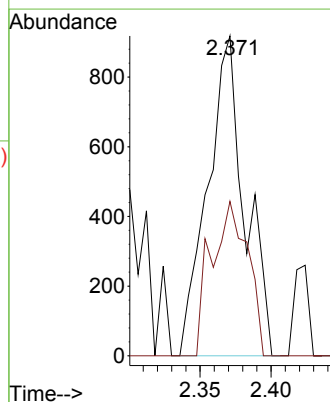
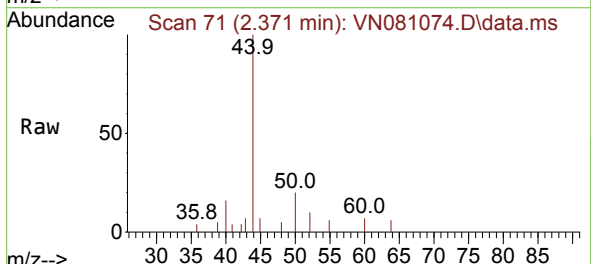
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

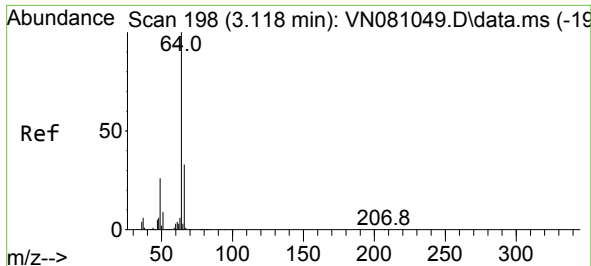
Tgt Ion:168 Resp: 414366
Ion Ratio Lower Upper
168 100
99 67.2 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 50 Resp: 1669
Ion Ratio Lower Upper
50 100
52 48.3 25.0 37.4#

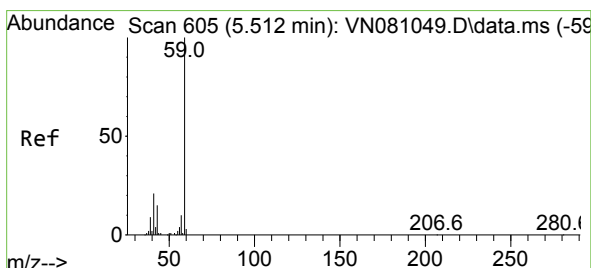
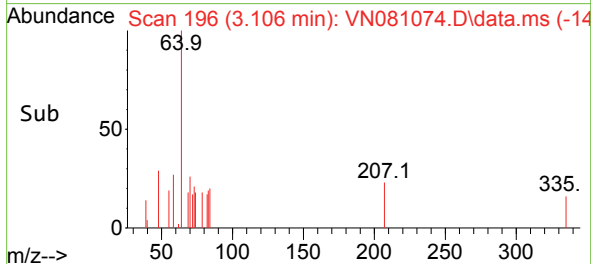
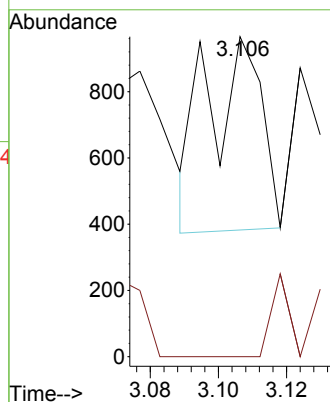
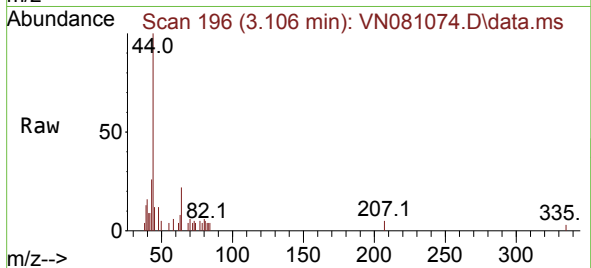




#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 198
Delta R.T. -0.012 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

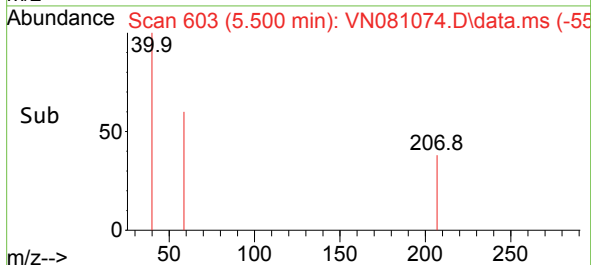
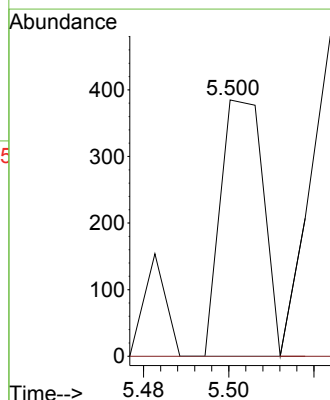
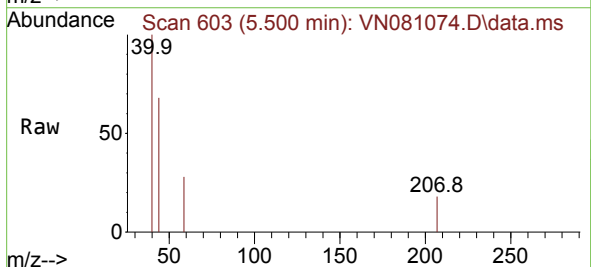
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

Tgt Ion: 64 Resp: 638
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 0.288 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 59 Resp: 269
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

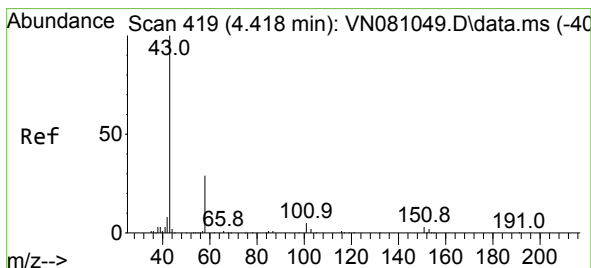
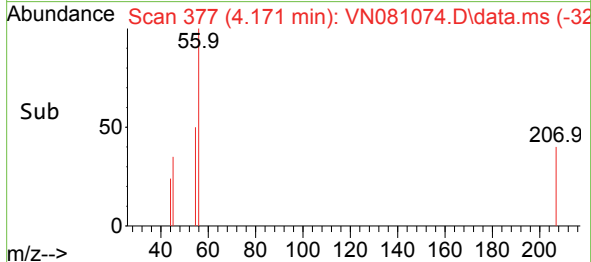
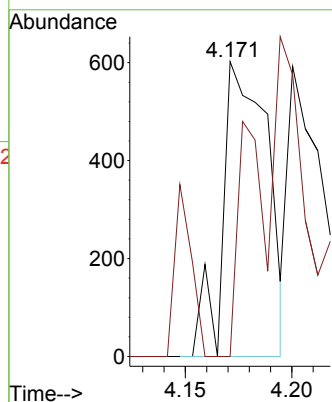
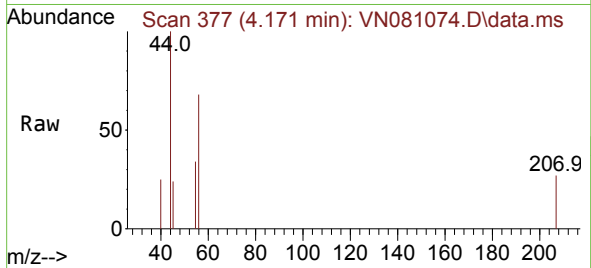




#13
Acrolein
Concen: 1.756 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

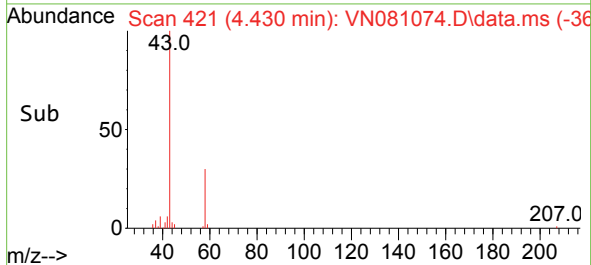
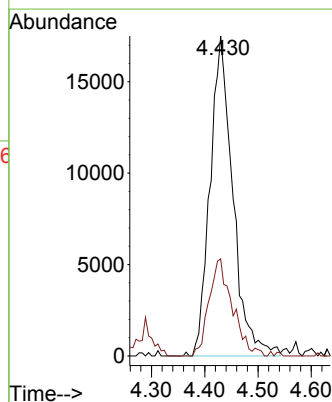
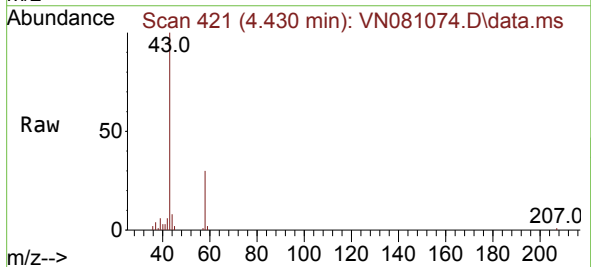
Instrument :
MSVOA_N
ClientSampleId :
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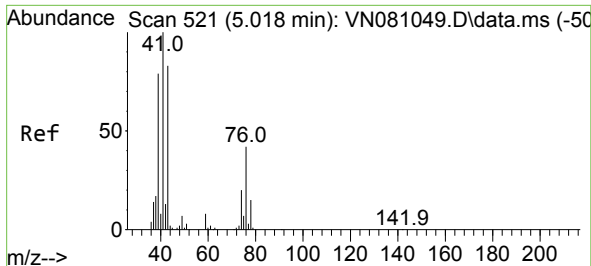
Tgt Ion: 56 Resp: 879
Ion Ratio Lower Upper
56 100
55 44.0 55.3 82.9#



#16
Acetone
Concen: 26.015 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 43 Resp: 51989
Ion Ratio Lower Upper
43 100
58 30.4 24.8 37.2

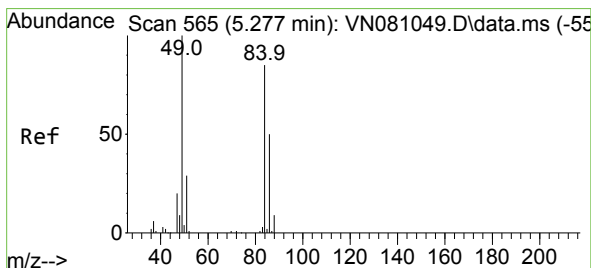
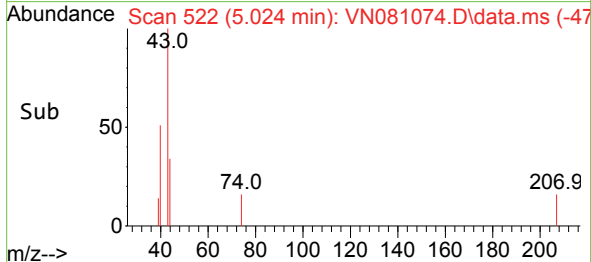
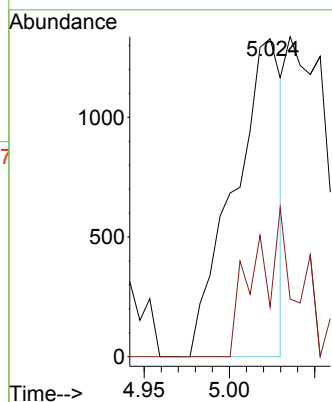
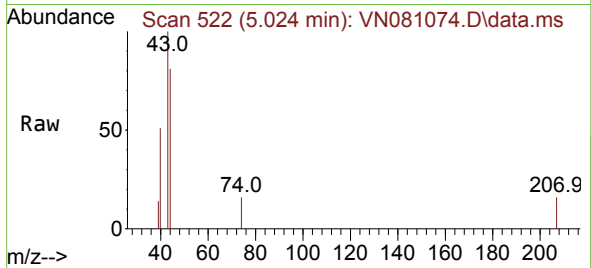




#18
Methyl Acetate
Concen: 0.526 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

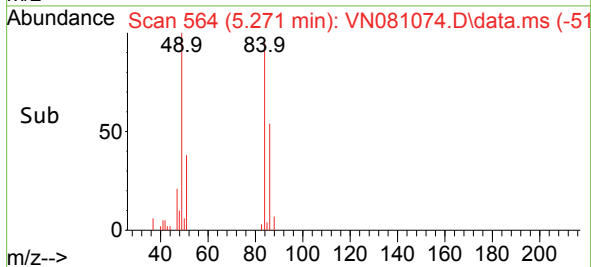
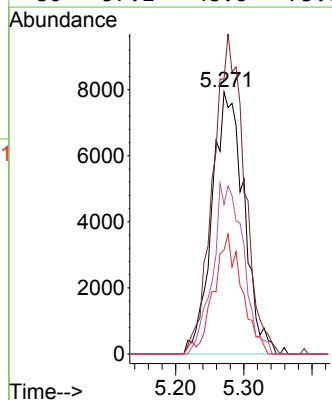
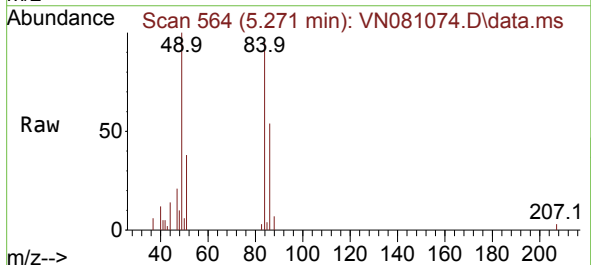
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

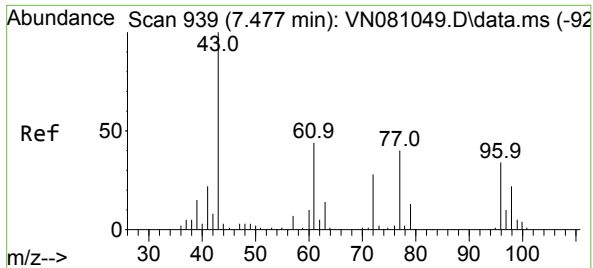
Tgt Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
74 18.9 17.3 25.9



#20
Methylene Chloride
Concen: 4.139 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 84 Resp: 25806
Ion Ratio Lower Upper
84 100
49 105.0 108.1 162.1#
51 39.7 32.9 49.3
86 57.1 48.6 73.0

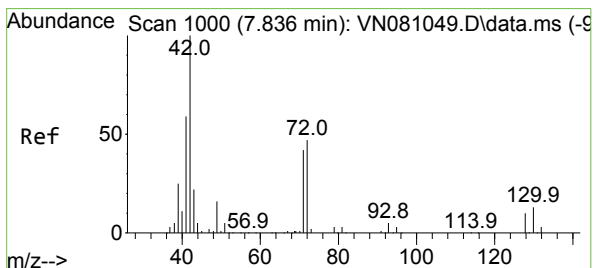
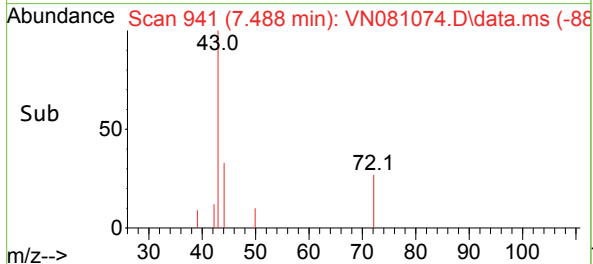
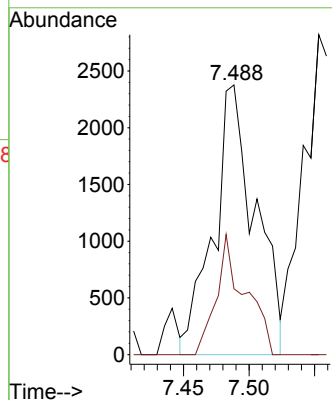
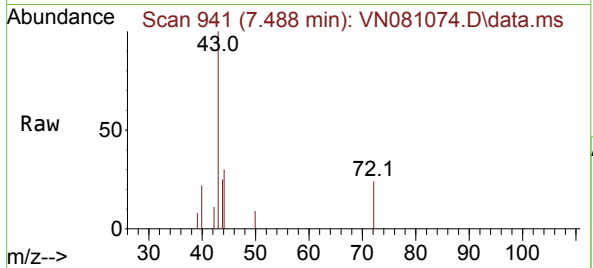




#25
2-Butanone
Concen: 1.625 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

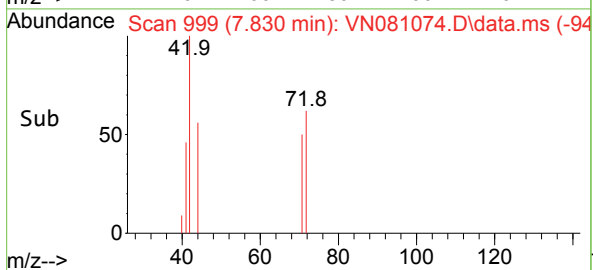
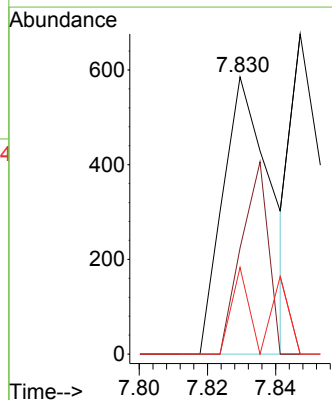
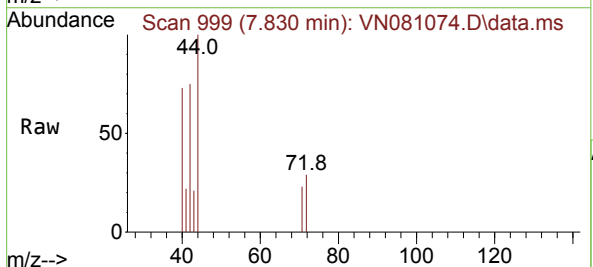
Instrument :
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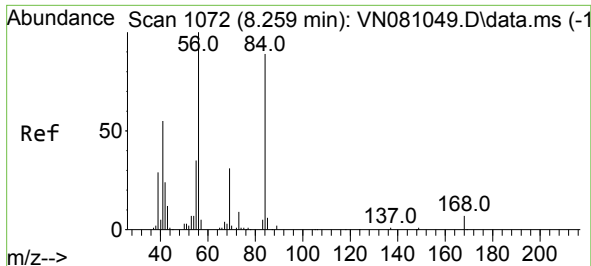
Tgt Ion: 43 Resp: 5245
Ion Ratio Lower Upper
43 100
72 26.1 19.5 29.3



#29
Tetrahydrofuran
Concen: 0.264 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

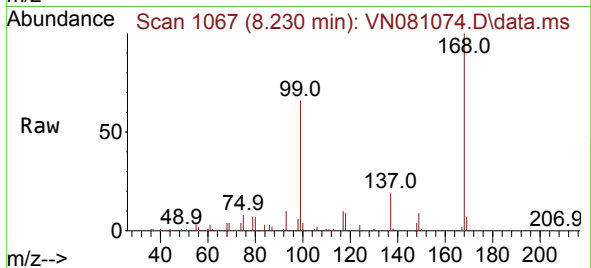
Tgt Ion: 42 Resp: 570
Ion Ratio Lower Upper
42 100
72 38.9 31.1 46.7
71 21.4 28.3 42.5#



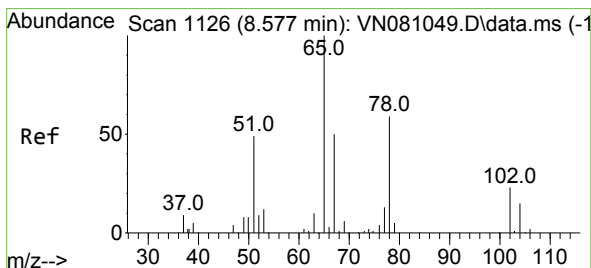
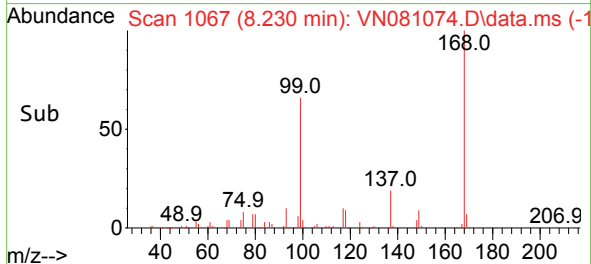
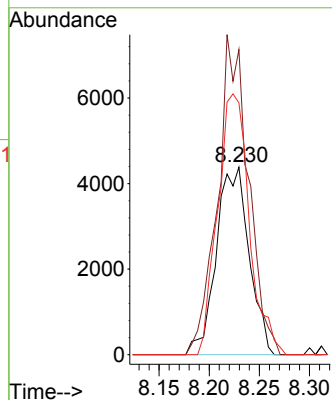


#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.030 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

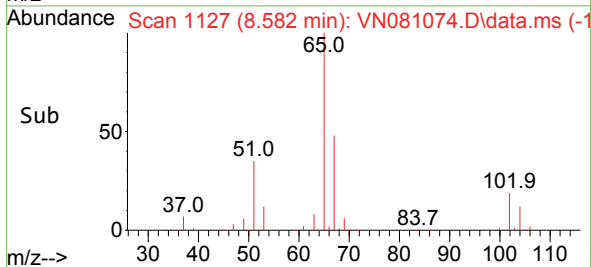
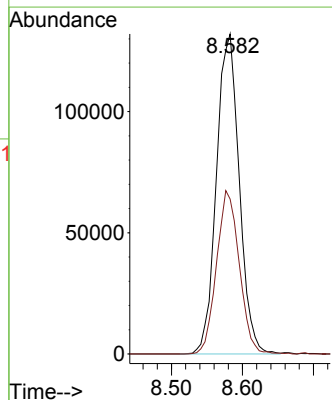
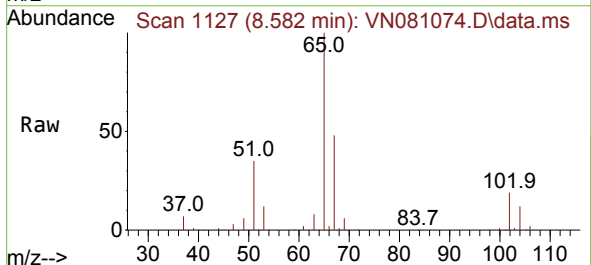


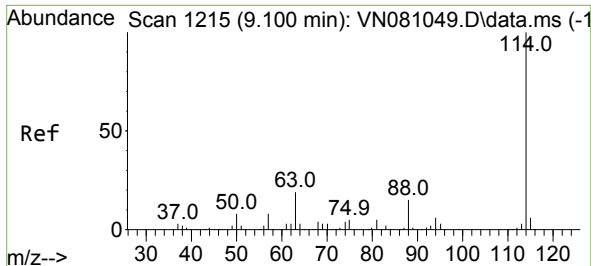
Tgt Ion: 56 Resp: 9974
Ion Ratio Lower Upper
56 100
69 162.7 20.1 30.1#
84 134.2 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 57.885 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 65 Resp: 293996
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.4

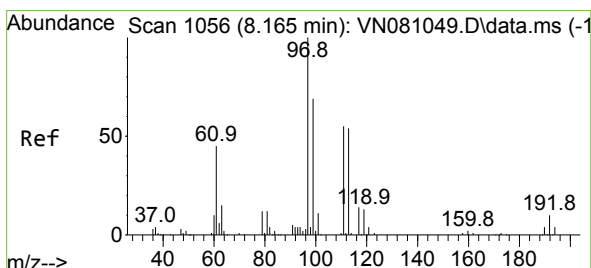
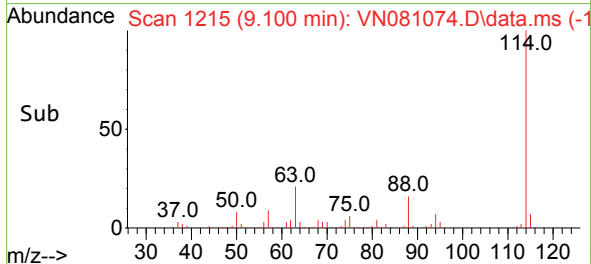
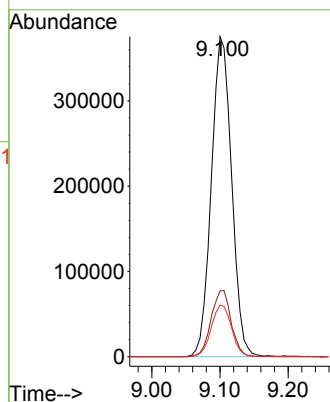
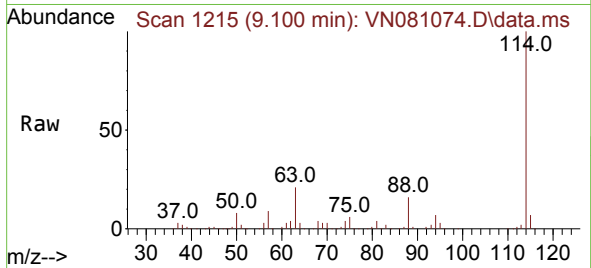




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

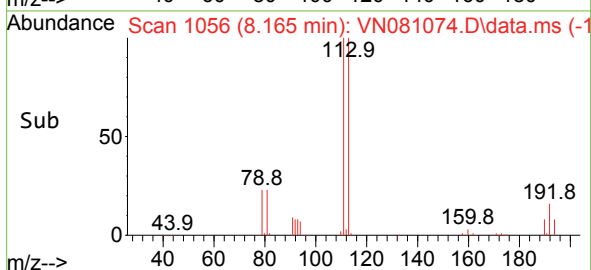
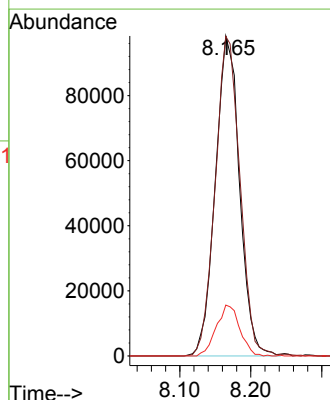
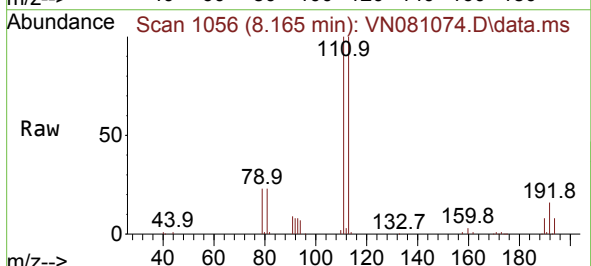
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

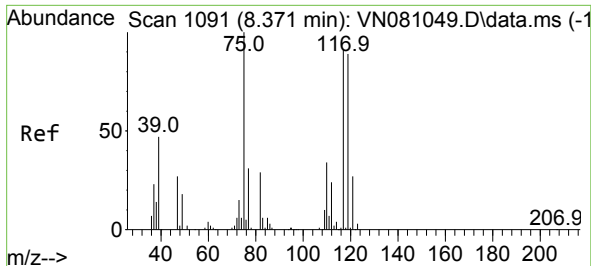
Tgt Ion:114 Resp: 777285
Ion Ratio Lower Upper
114 100
63 20.5 0.0 48.0
88 16.1 0.0 34.8



#35
Dibromofluoromethane
Concen: 52.938 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion:113 Resp: 232678
Ion Ratio Lower Upper
113 100
111 101.7 82.2 123.4
192 15.4 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#02

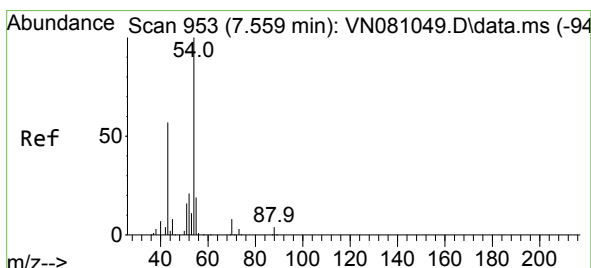
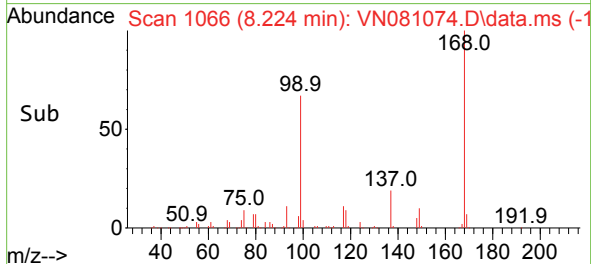
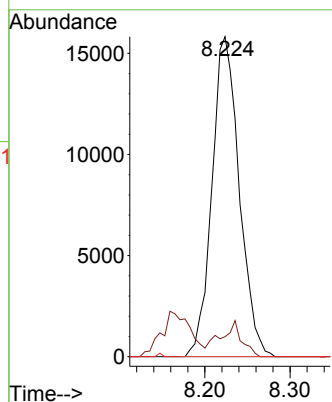
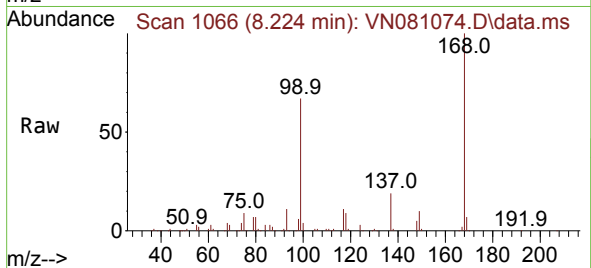
Tgt Ion: 75 Resp: 35190

Ion Ratio Lower Upper

75 100

110 8.8 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.210 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

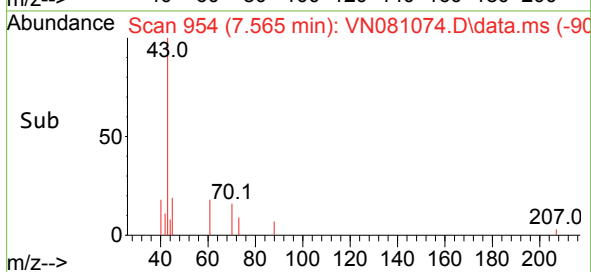
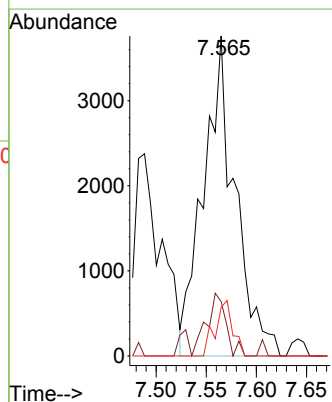
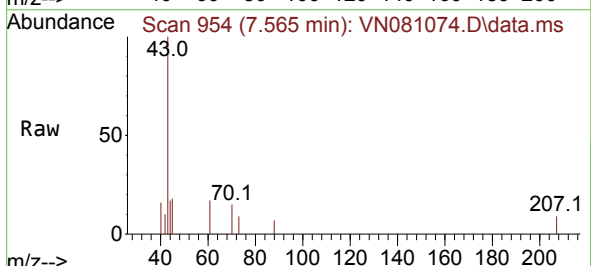
Tgt Ion: 43 Resp: 8225

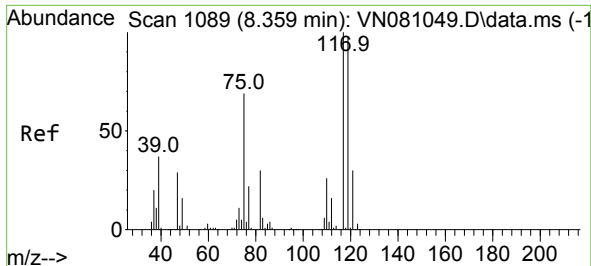
Ion Ratio Lower Upper

43 100

61 12.2 10.6 15.8

70 9.6 8.0 12.0

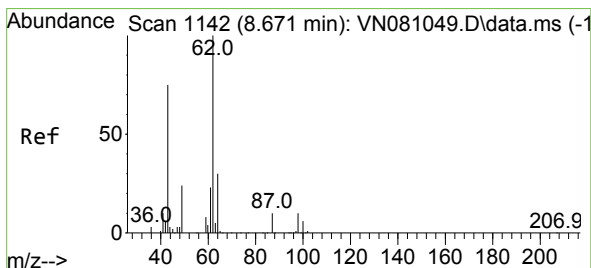
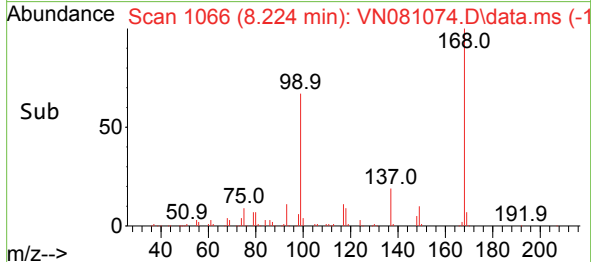
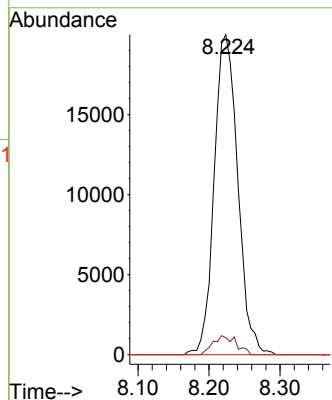
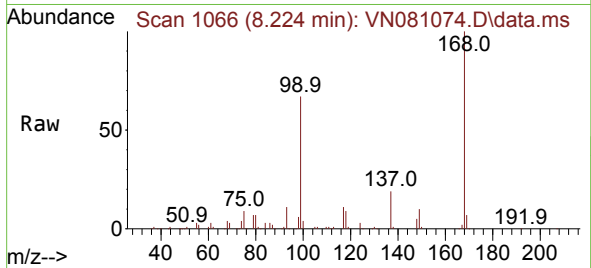




#38
Carbon Tetrachloride
Concen: 6.044 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

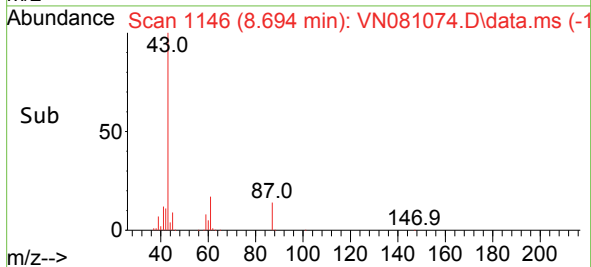
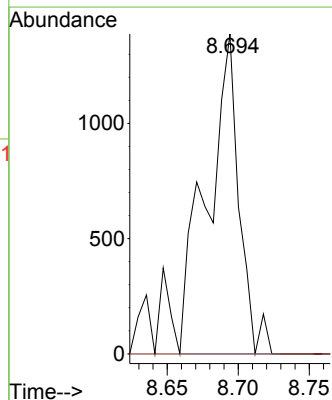
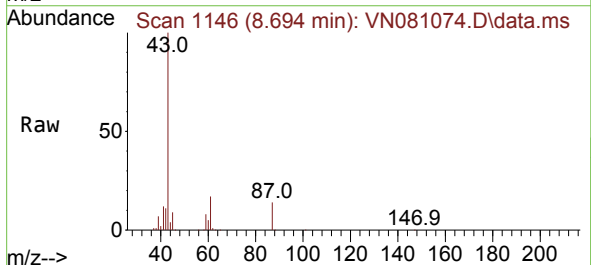
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

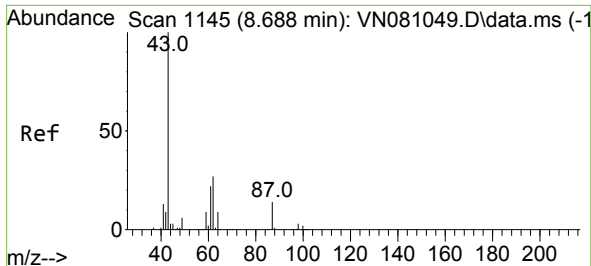
Tgt Ion:117 Resp: 46048
Ion Ratio Lower Upper
117 100
119 5.3 73.4 110.2#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.285 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.023 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 62 Resp: 2170
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.0

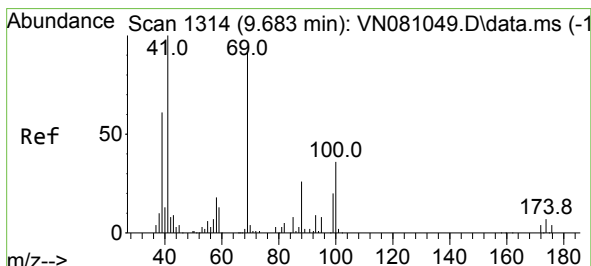
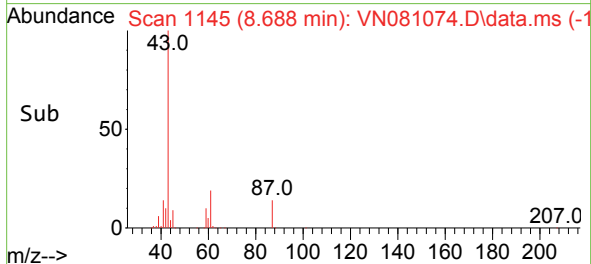
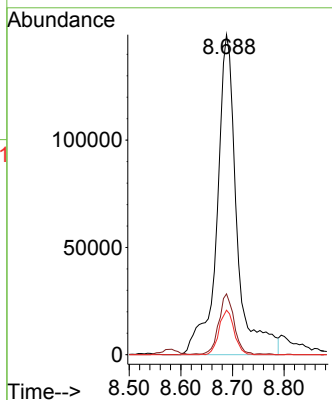
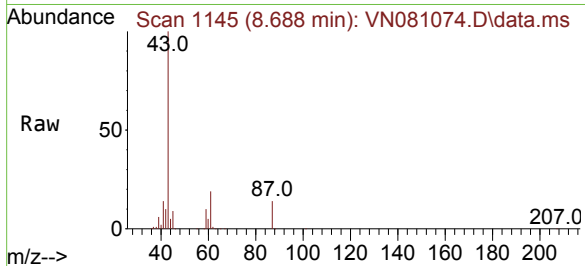




#43
Isopropyl Acetate
Concen: 33.416 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

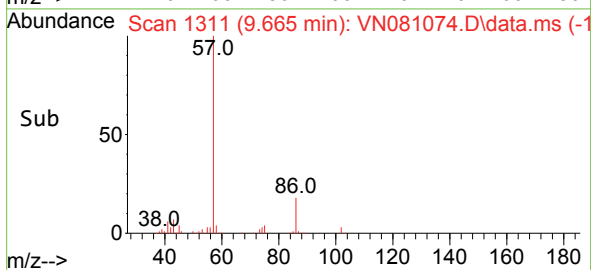
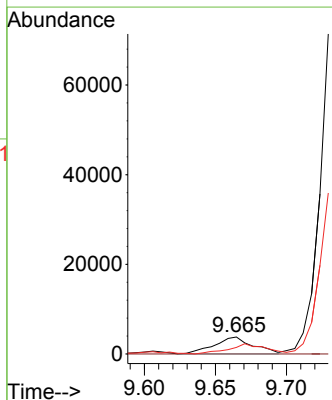
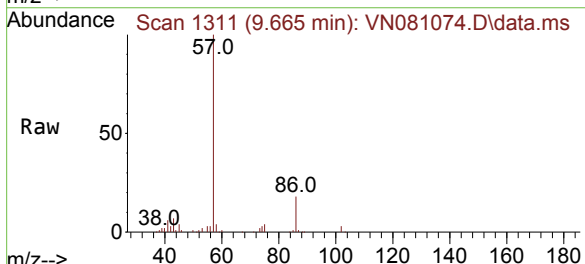
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

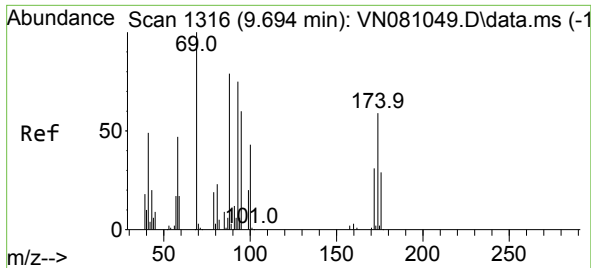
Tgt Ion: 43 Resp: 397174
Ion Ratio Lower Upper
43 100
61 14.5 19.9 29.9#
87 10.6 9.0 13.6



#48
Methyl methacrylate
Concen: 1.309 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 41 Resp: 7238
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 56.6 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#02

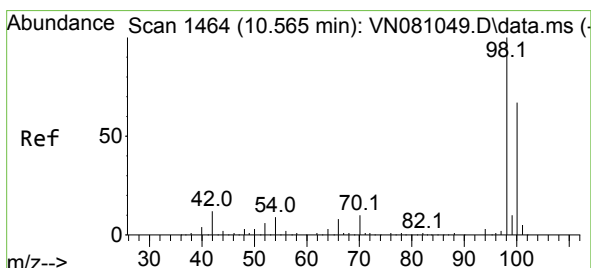
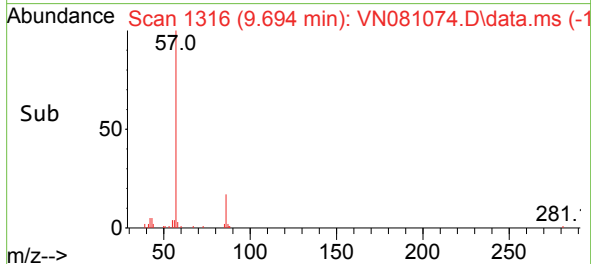
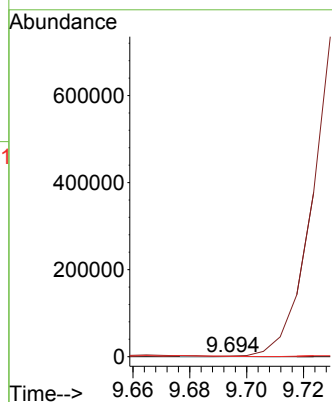
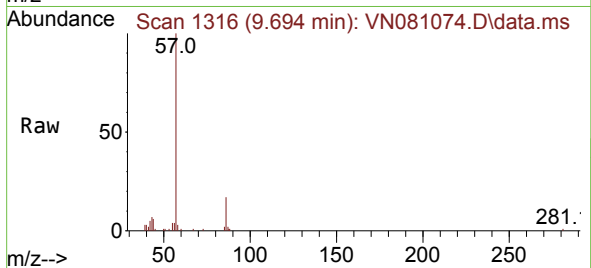
Tgt Ion: 88 Resp: 369

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 57.608 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081074.D

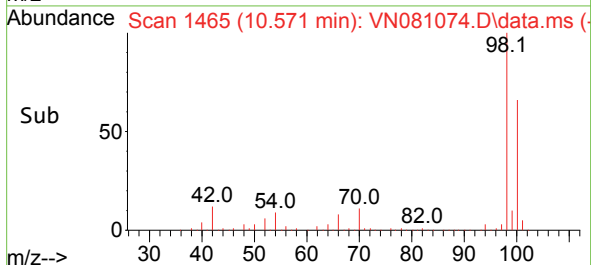
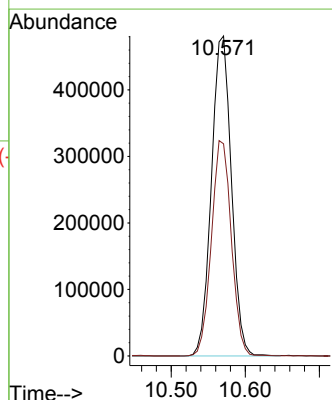
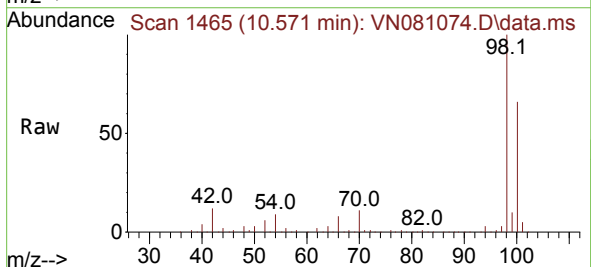
Acq: 19 Feb 2024 14:31

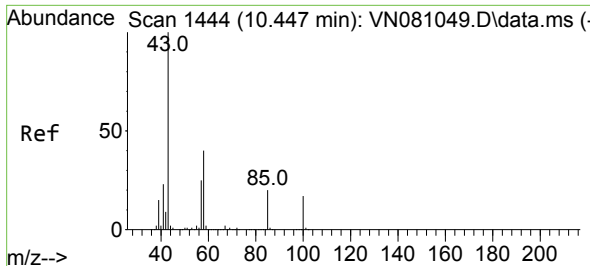
Tgt Ion: 98 Resp: 899320

Ion Ratio Lower Upper

98 100

100 67.2 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 1.813 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

Instrument :

MSVOA_N

ClientSampleId :

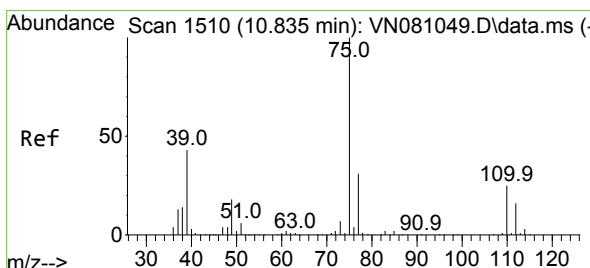
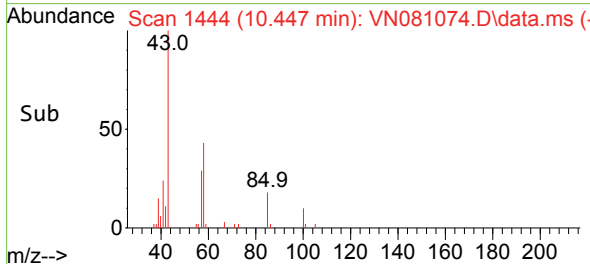
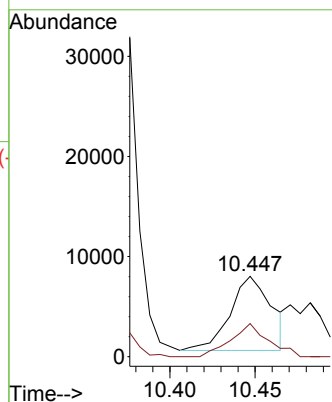
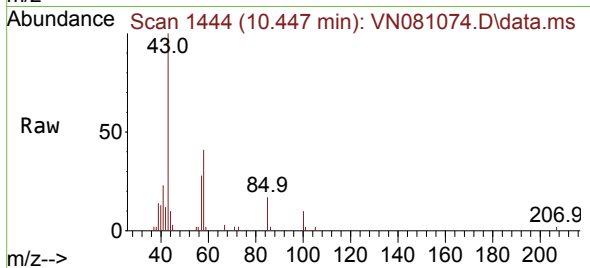
PB159057ZHE#02

Tgt Ion: 43 Resp: 12398

Ion Ratio Lower Upper

43 100

58 40.3 29.4 44.0



#53

t-1,3-Dichloropropene

Concen: 0.258 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.106 min

Lab File: VN081074.D

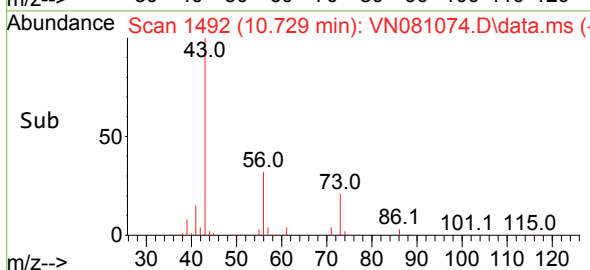
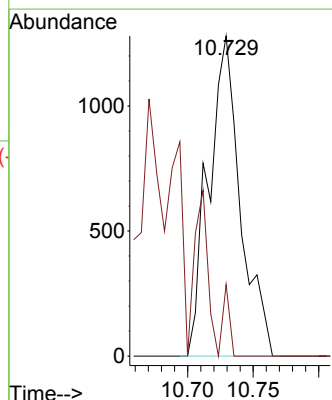
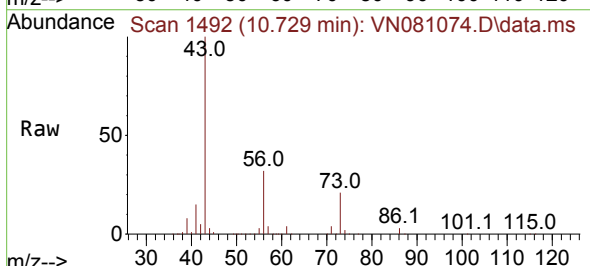
Acq: 19 Feb 2024 14:31

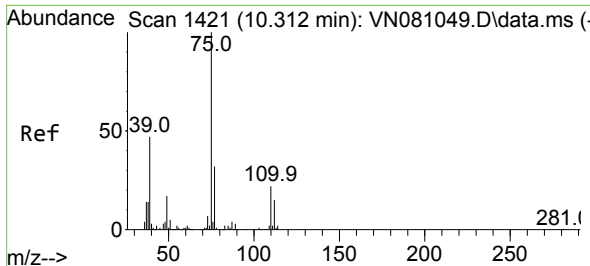
Tgt Ion: 75 Resp: 2160

Ion Ratio Lower Upper

75 100

77 22.3 25.5 38.3#

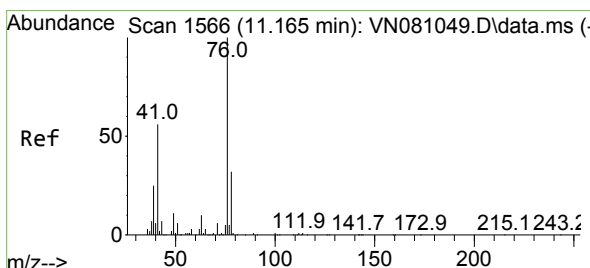
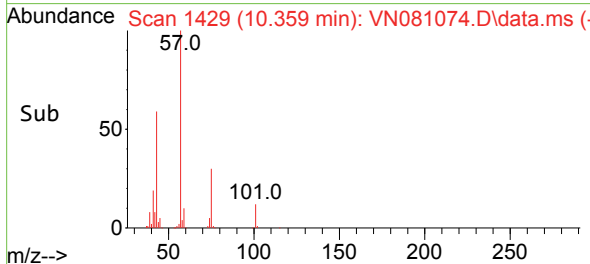
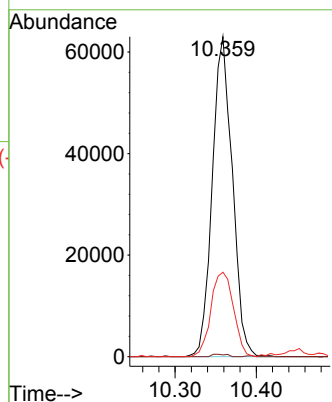
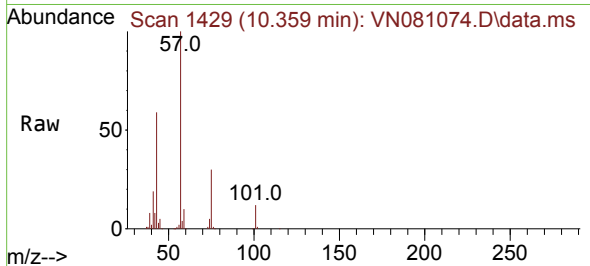




#54
cis-1,3-Dichloropropene
Concen: 11.970 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

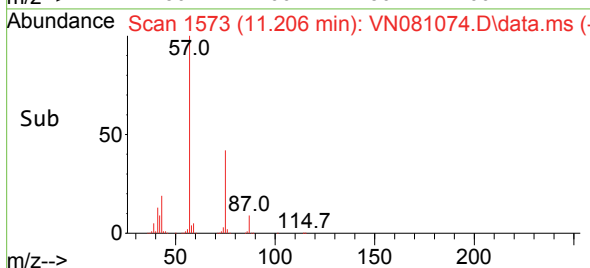
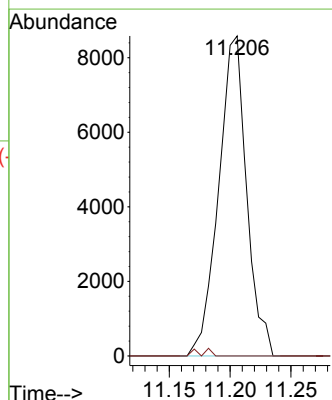
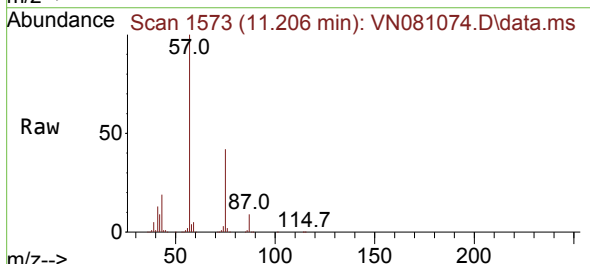
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

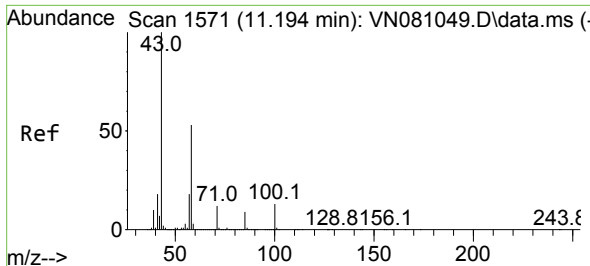
Tgt Ion: 75 Resp: 108131
Ion Ratio Lower Upper
75 100
77 0.5 23.3 34.9#
39 26.4 44.6 66.8#



#57
1,3-Dichloropropane
Concen: 1.500 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 76 Resp: 13765
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

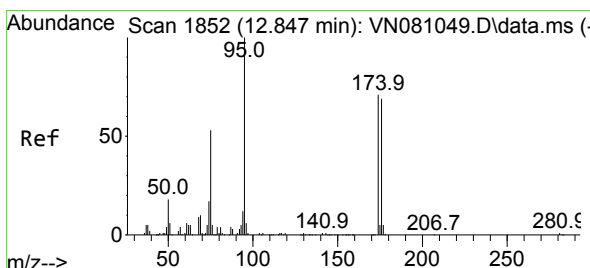
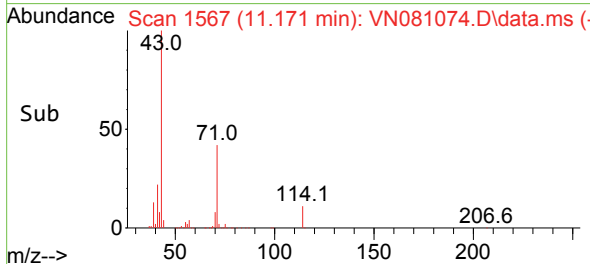
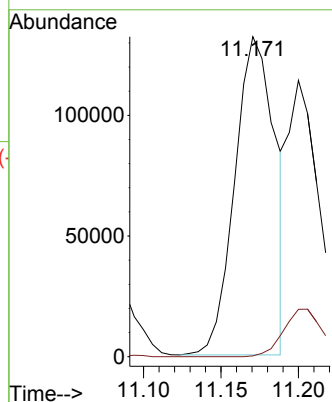
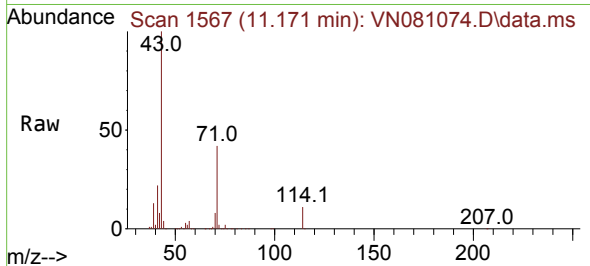




#59
2-Hexanone
Concen: 43.957 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

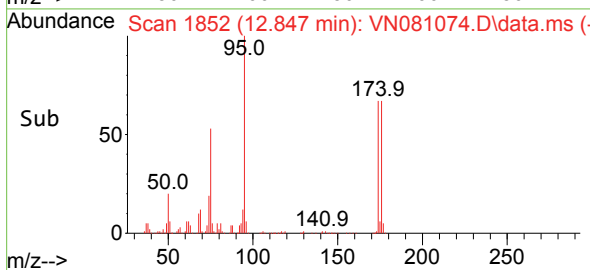
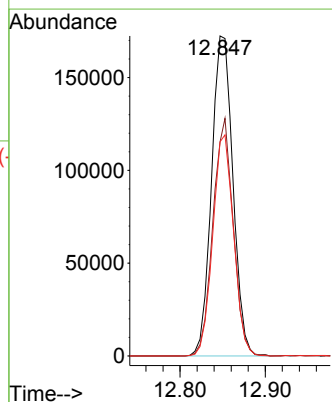
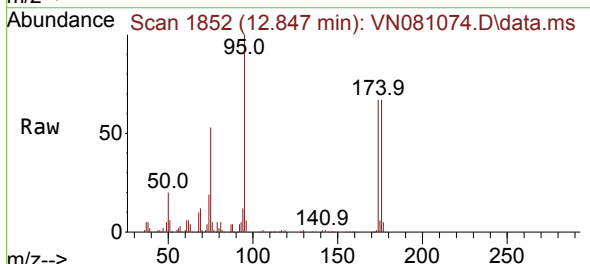
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#02

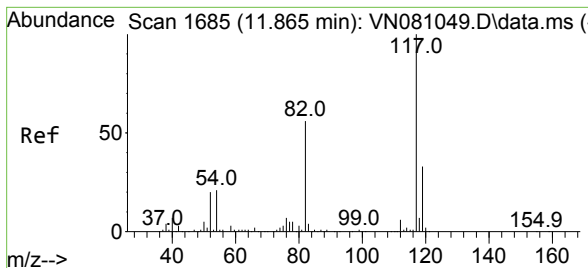
Tgt Ion: 43 Resp: 238275
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 51.295 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081074.D
Acq: 19 Feb 2024 14:31

Tgt Ion: 95 Resp: 300889
Ion Ratio Lower Upper
95 100
174 70.7 0.0 120.4
176 67.3 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#02

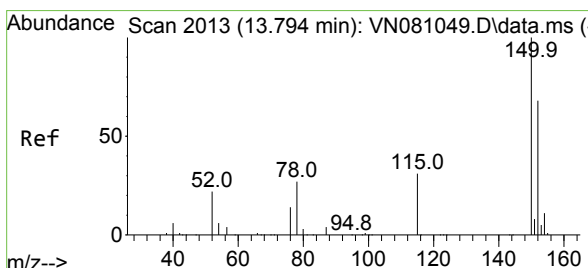
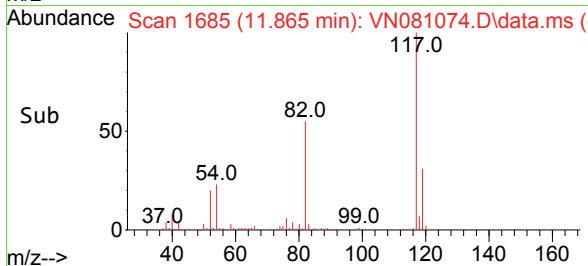
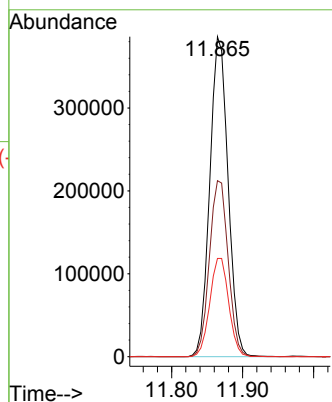
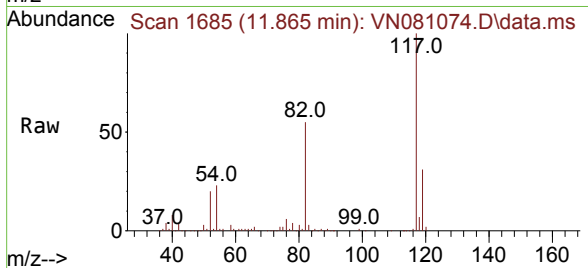
Tgt Ion:117 Resp: 688385

Ion Ratio Lower Upper

117 100

82 55.0 52.7 79.1

119 30.7 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081074.D

Acq: 19 Feb 2024 14:31

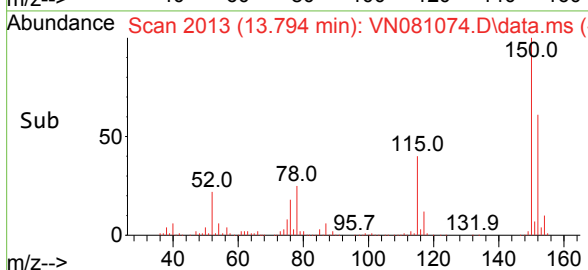
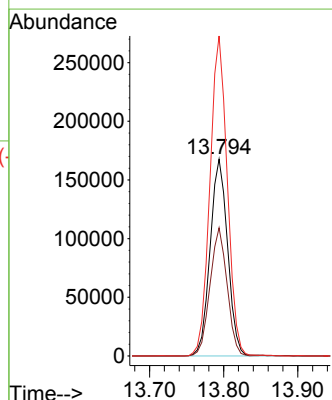
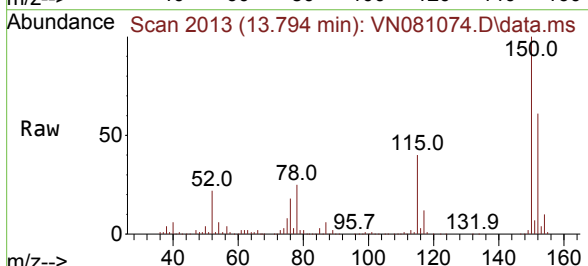
Tgt Ion:152 Resp: 275707

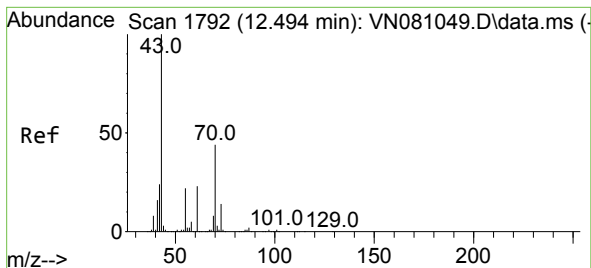
Ion Ratio Lower Upper

152 100

115 63.5 32.3 96.8

150 160.8 0.0 339.8





#74

N-amy1 acetate

Concen: 0.310 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081074.D

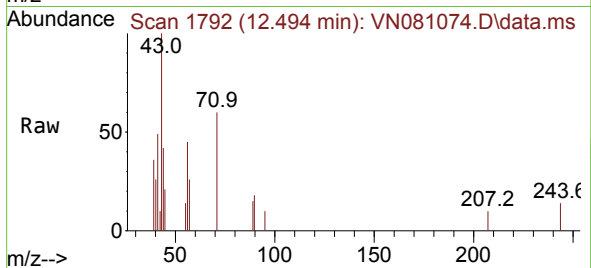
Acq: 19 Feb 2024 14:31

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#02



Tgt Ion: 43 Resp: 3163

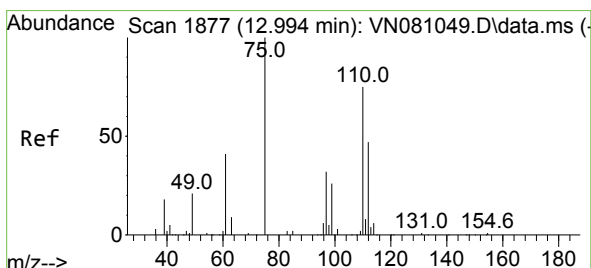
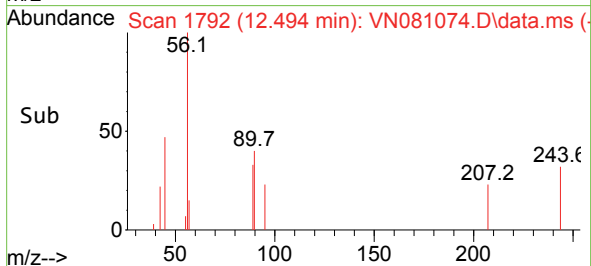
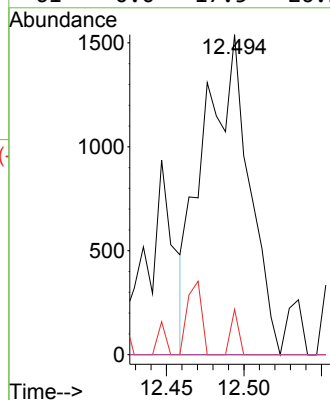
Ion Ratio Lower Upper

43 100

70 0.0 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 25.661 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081074.D

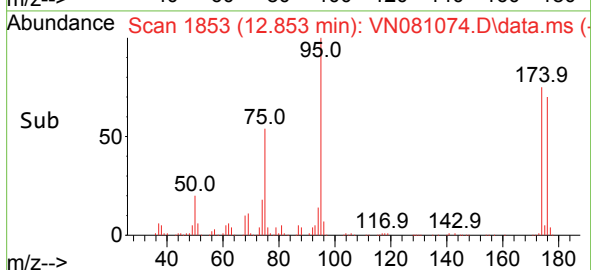
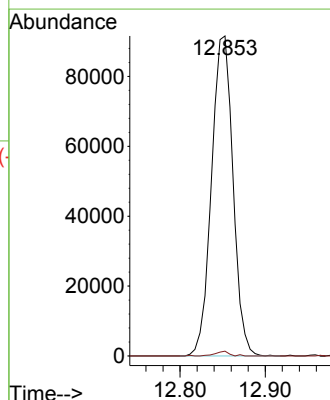
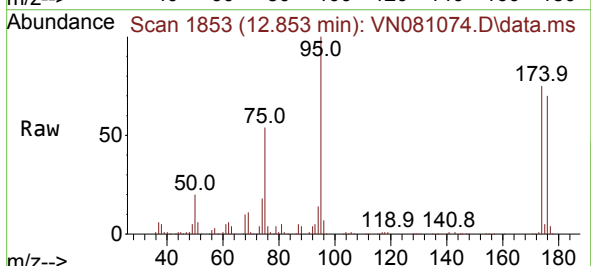
Acq: 19 Feb 2024 14:31

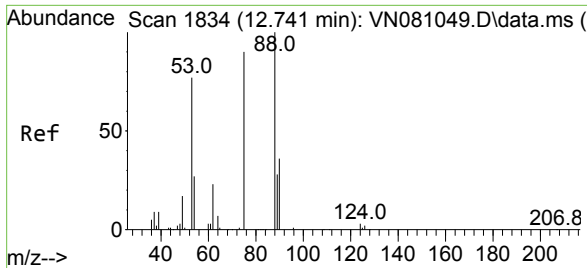
Tgt Ion: 75 Resp: 160746

Ion Ratio Lower Upper

75 100

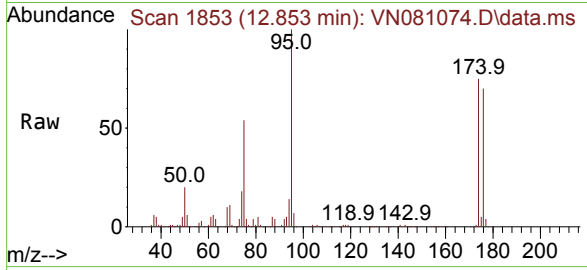
77 1.0 91.0 272.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.049 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN081074.D
 Acq: 19 Feb 2024 14:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#02



Tgt Ion: 75 Resp: 160746
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.1 33.4 50.0#

