

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086607.D
 Acq On : 13 May 2025 17:25
 Operator : JC\MD
 Sample : PB167964ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#05

Quant Time: May 14 01:48:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

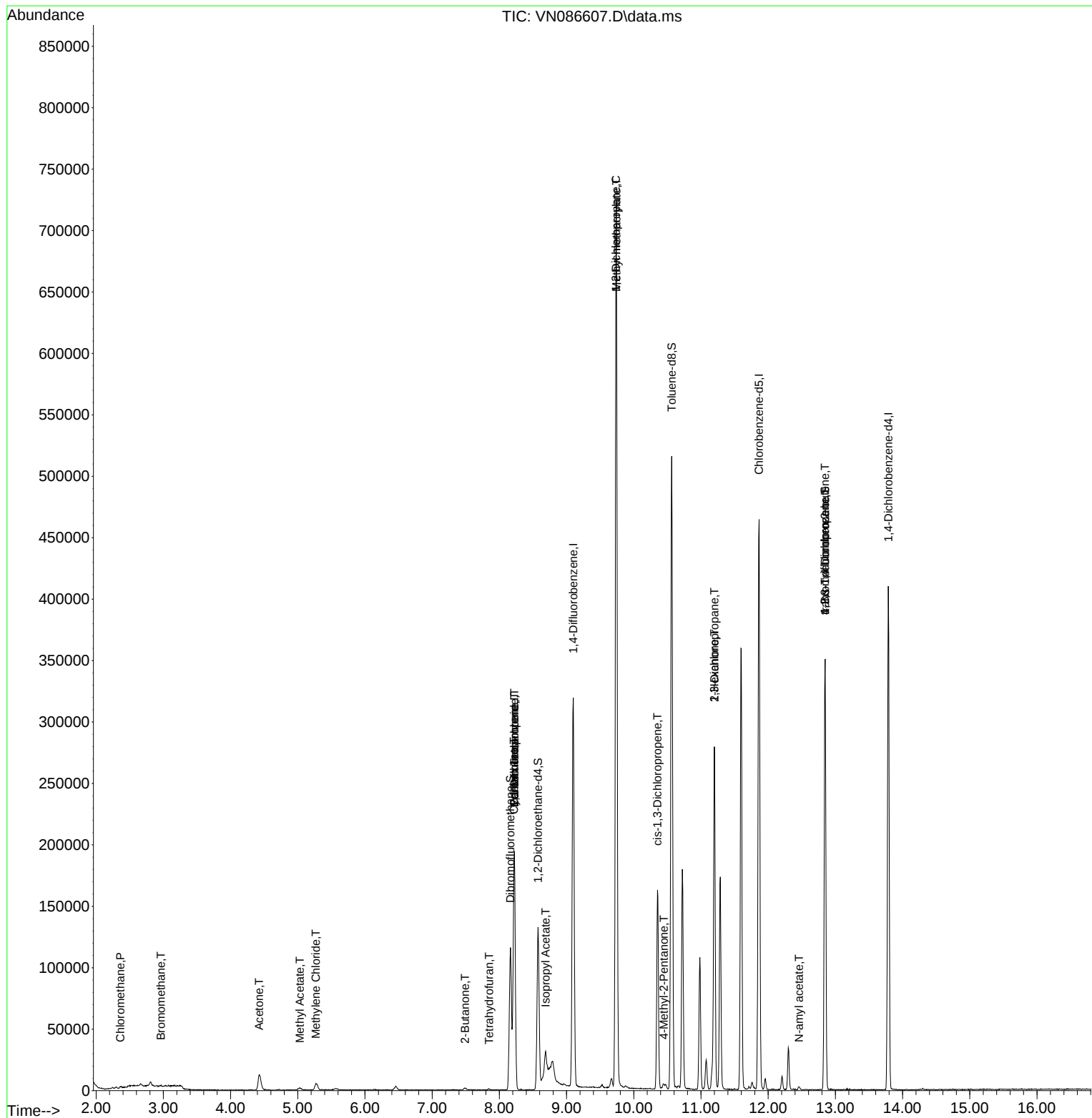
Internal Standards						
1) Pentafluorobenzene	8.224	168	143409	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	283158	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275475	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113287	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	107343	51.618	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.240%			
35) Dibromofluoromethane	8.165	113	84375	64.204	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 128.400%#			
50) Toluene-d8	10.565	98	366617	52.198	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.400%			
62) 4-Bromofluorobenzene	12.847	95	128609	50.203	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.400%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	675	0.273	ug/l #	42
5) Bromomethane	2.965	94	238	0.224	ug/l	98
16) Acetone	4.424	43	25986	31.146	ug/l	91
18) Methyl Acetate	5.030	43	3825	1.532	ug/l #	86
20) Methylene Chloride	5.271	84	4493	2.337	ug/l #	76
25) 2-Butanone	7.489	43	3289	2.541	ug/l #	77
29) Tetrahydrofuran	7.847	42	672	0.776	ug/l #	61
31) Cyclohexane	8.218	56	3356	0.996	ug/l #	7
36) 1,1-Dichloropropene	8.224	75	12141	4.625	ug/l #	48
38) Carbon Tetrachloride	8.224	117	14988	5.996	ug/l #	17
43) Isopropyl Acetate	8.688	43	48737	8.112	ug/l #	72
45) 1,2-Dichloropropane	9.735	63	887	0.431	ug/l #	43
48) Methyl methacrylate	9.741	41	66126	27.249	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	3067	1.084	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	30758	8.856	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	2910	0.869	ug/l #	43
59) 2-Hexanone	11.200	43	51413	24.495	ug/l #	43
74) N-amyl acetate	12.459	43	2497	0.541	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	64888	24.272	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64888	58.292	ug/l #	10

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

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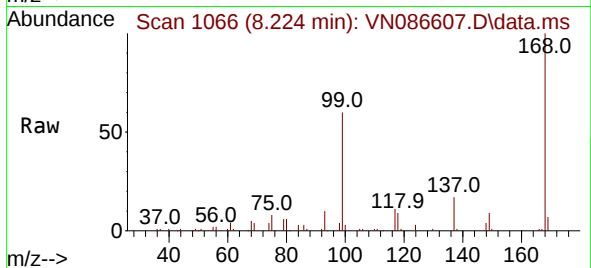
Quant Time: May 14 01:48:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
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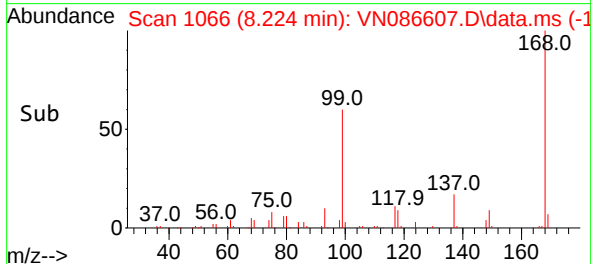
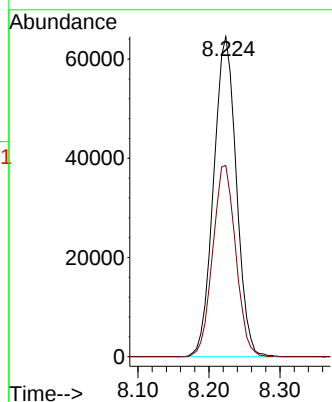


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

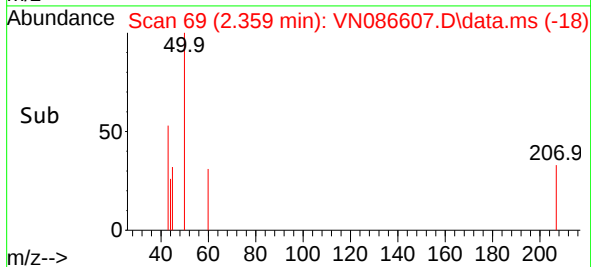
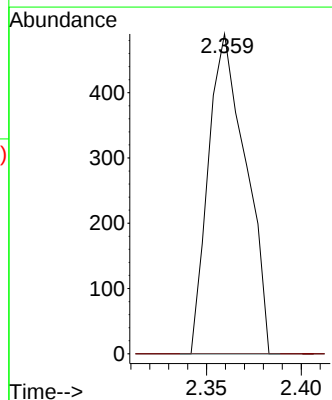
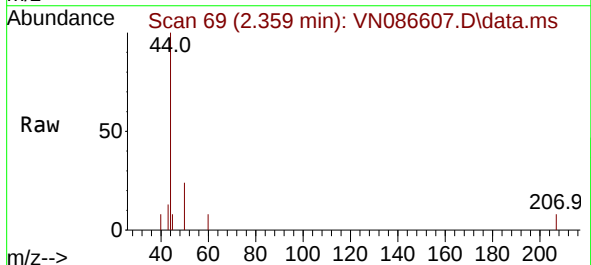


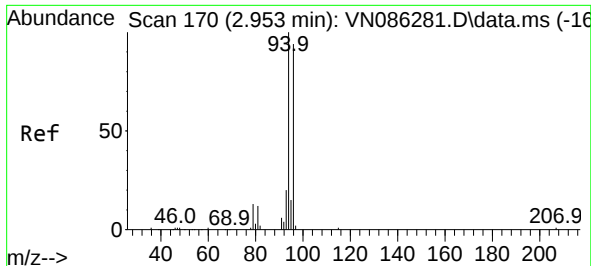
Tgt Ion:168 Resp: 143409
Ion Ratio Lower Upper
168 100
99 59.7 52.5 78.7



#3
Chloromethane
Concen: 0.273 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 50 Resp: 675
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

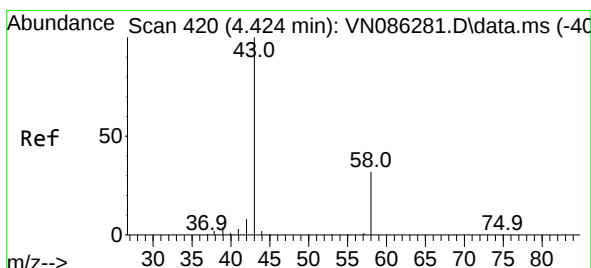
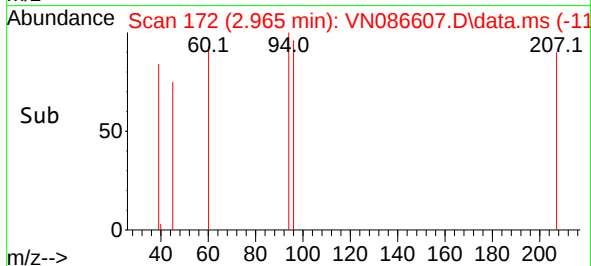
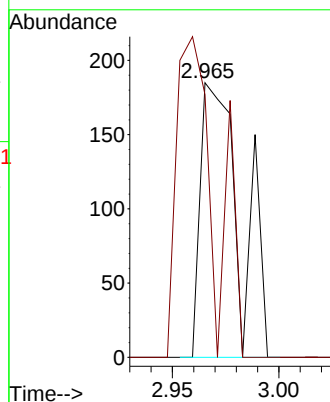
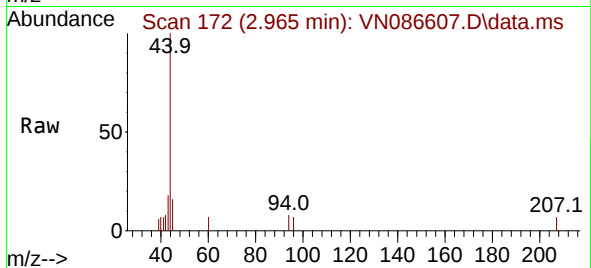




#5
Bromomethane
Concen: 0.224 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

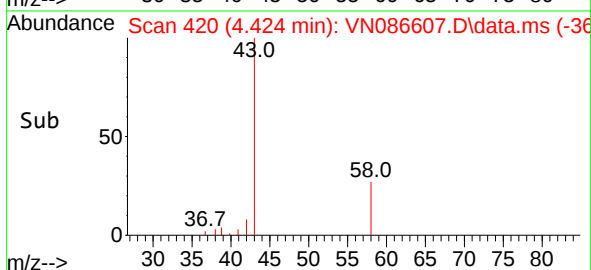
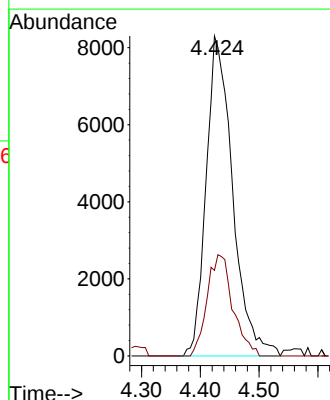
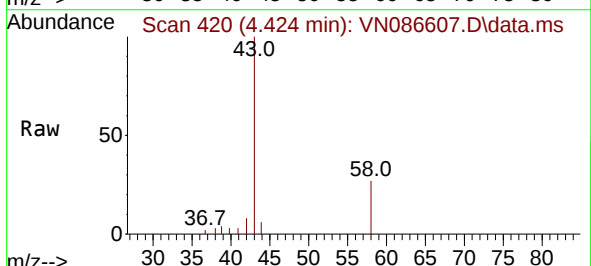
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

Tgt Ion: 94 Resp: 238
Ion Ratio Lower Upper
94 100
96 95.7 75.2 112.8



#16
Acetone
Concen: 31.146 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 43 Resp: 25986
Ion Ratio Lower Upper
43 100
58 26.8 25.3 37.9

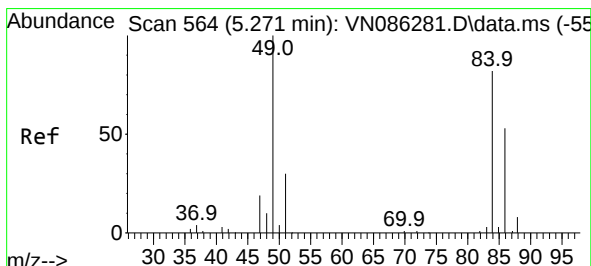
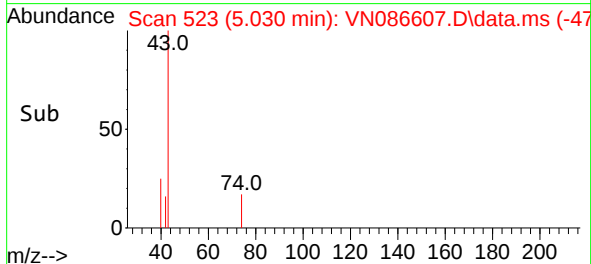
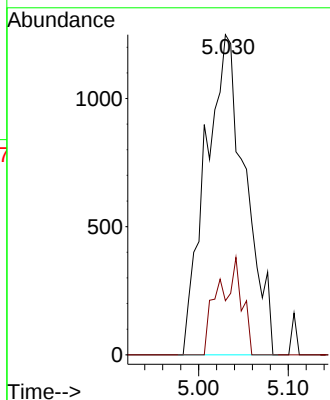
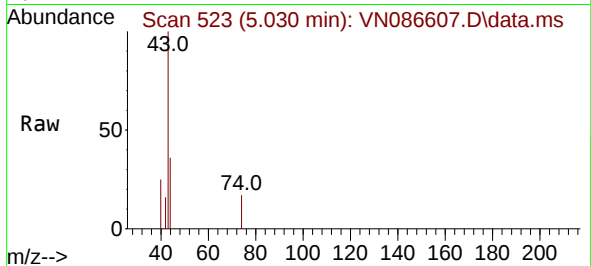




#18
Methyl Acetate
Concen: 1.532 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

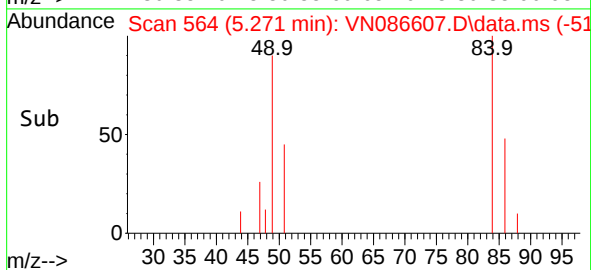
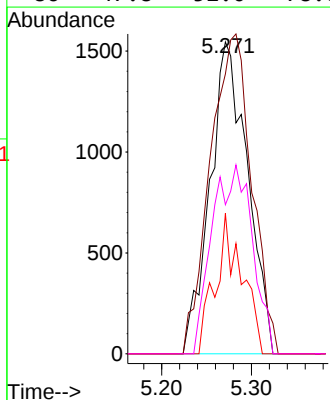
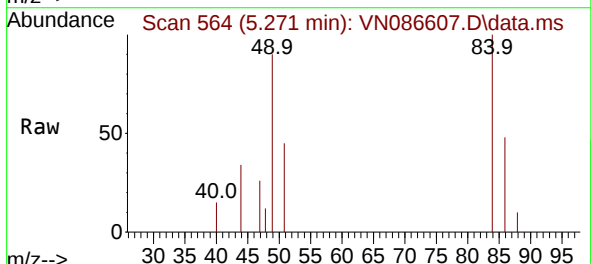
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

Tgt Ion: 43 Resp: 3825
Ion Ratio Lower Upper
43 100
74 17.9 19.8 29.6#



#20
Methylene Chloride
Concen: 2.337 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 84 Resp: 4493
Ion Ratio Lower Upper
84 100
49 89.8 98.2 147.2#
51 45.0 29.8 44.6#
86 47.8 52.0 78.0#

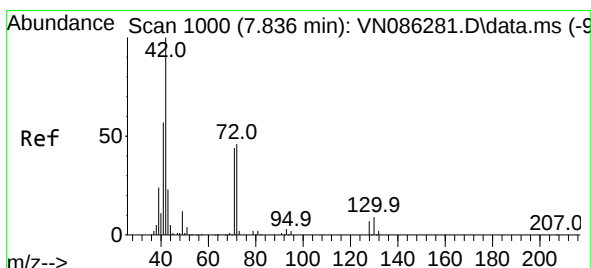
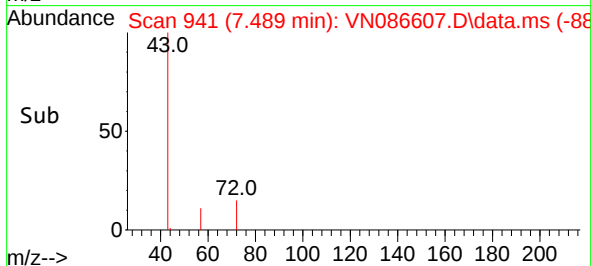
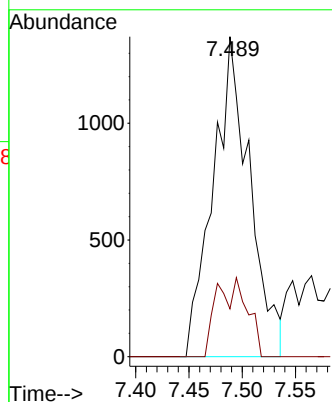
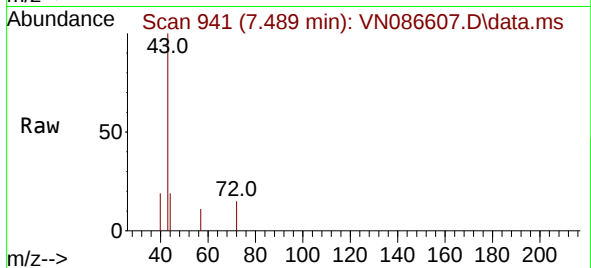




#25
2-Butanone
Concen: 2.541 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

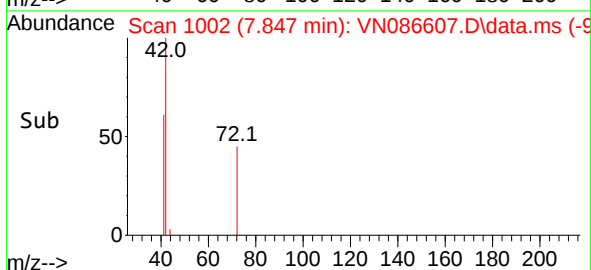
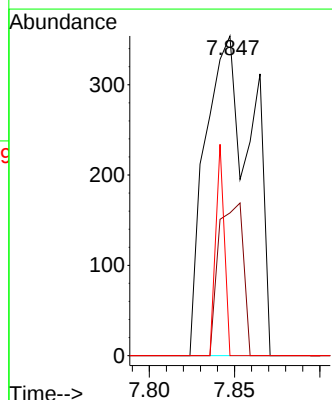
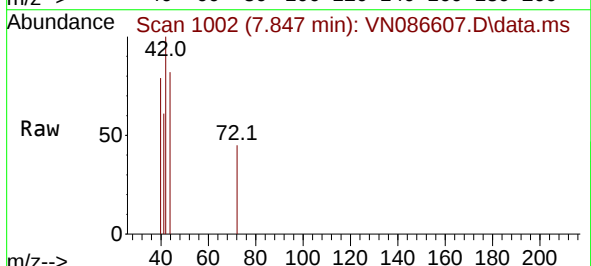
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

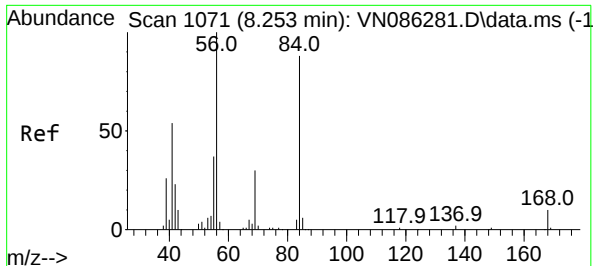
Tgt Ion: 43 Resp: 3289
Ion Ratio Lower Upper
43 100
72 15.0 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.776 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

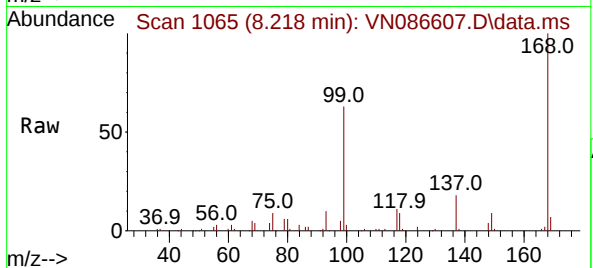
Tgt Ion: 42 Resp: 672
Ion Ratio Lower Upper
42 100
72 25.1 36.2 54.4#
71 12.4 34.0 51.0#



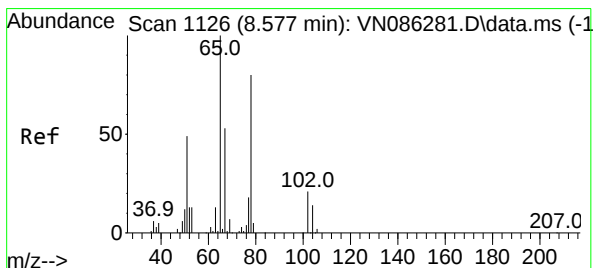
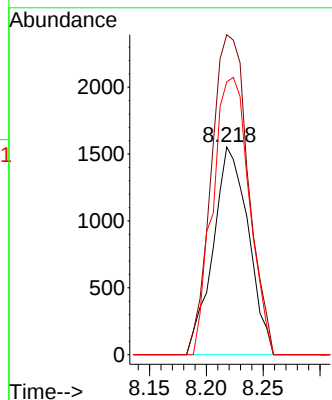
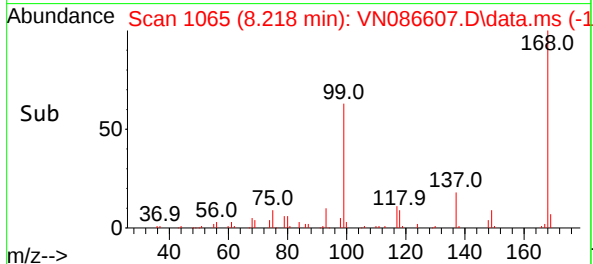


#31
Cyclohexane
Concen: 0.996 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

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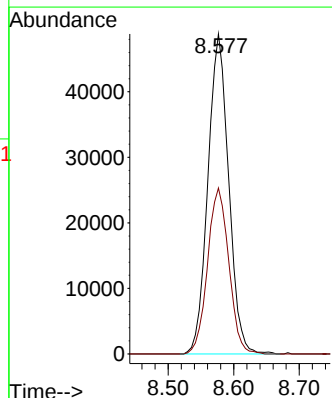
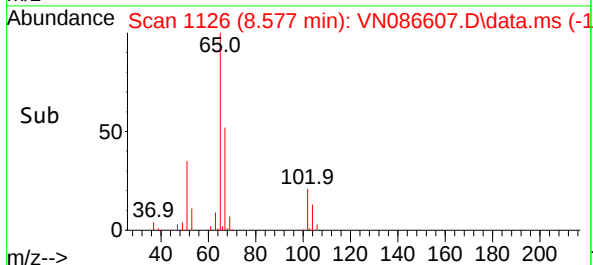
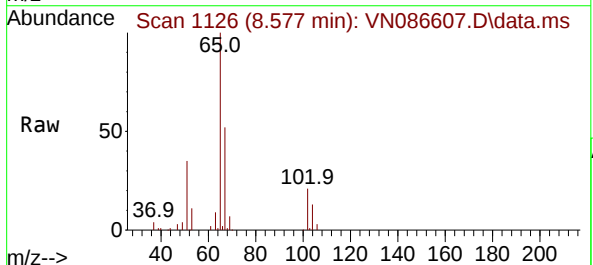


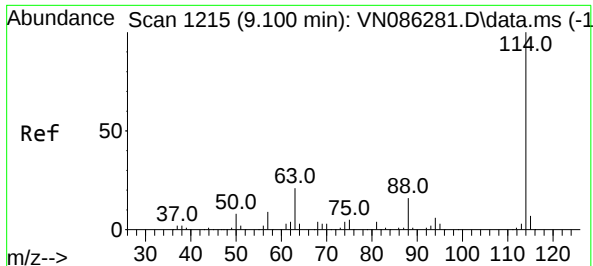
Tgt Ion: 56 Resp: 3356
Ion Ratio Lower Upper
56 100
69 154.1 24.2 36.2#
84 131.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 51.618 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 65 Resp: 107343
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.0

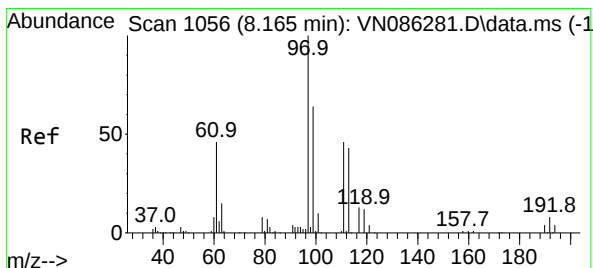
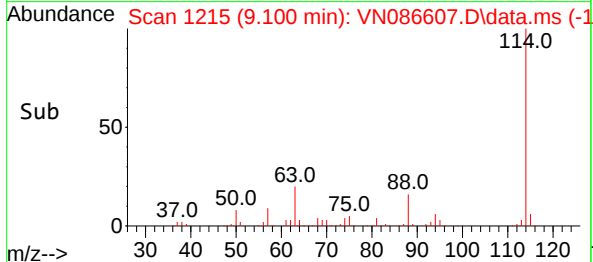
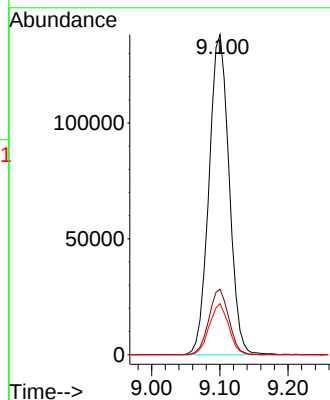
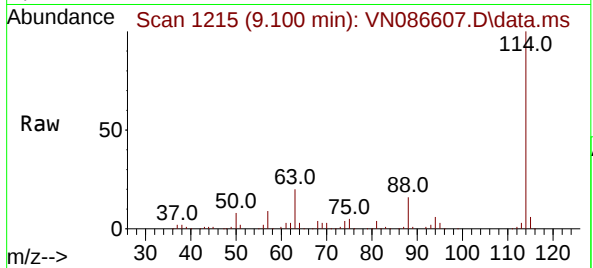




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

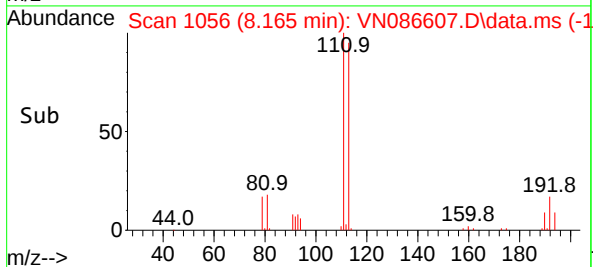
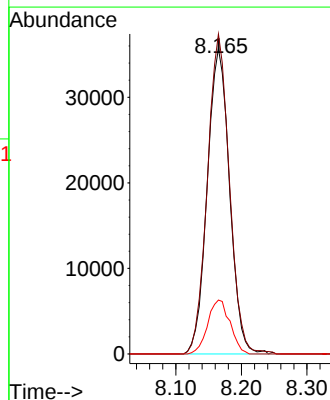
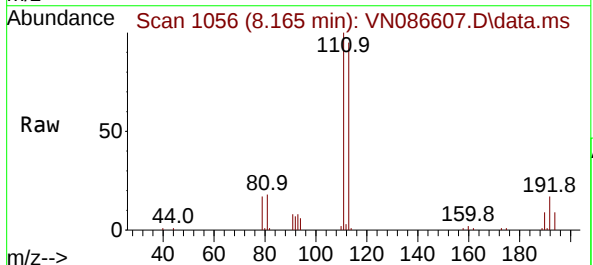
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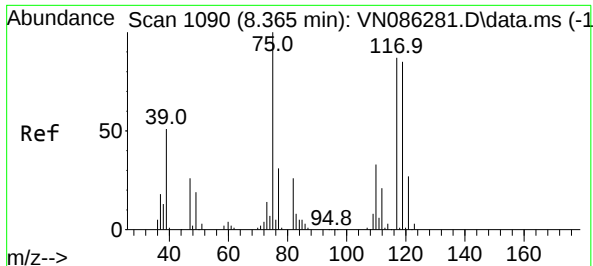
Tgt Ion:114 Resp: 283158
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 16.0 0.0 31.8



#35
Dibromofluoromethane
Concen: 64.204 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion:113 Resp: 84375
Ion Ratio Lower Upper
113 100
111 103.4 83.4 125.0
192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.625 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#05

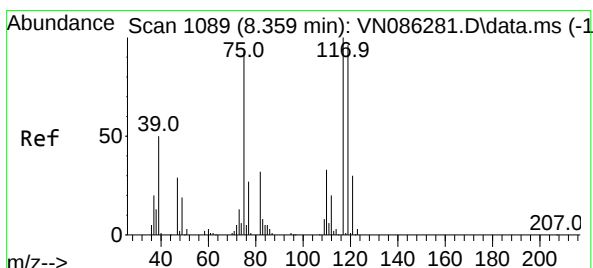
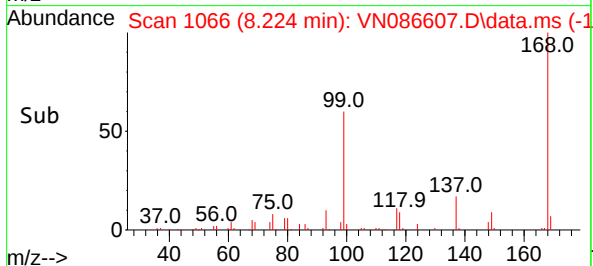
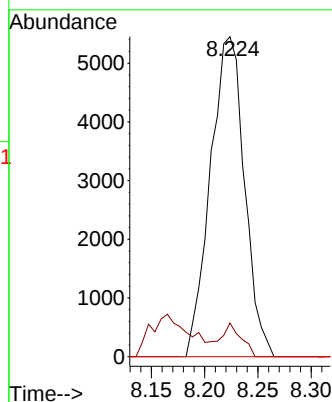
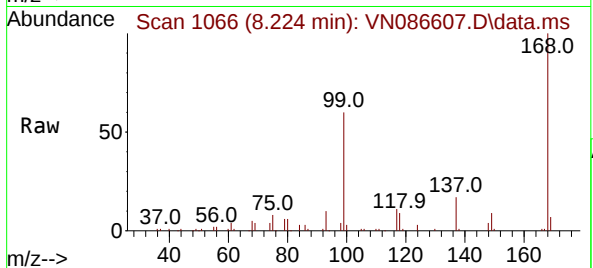
Tgt Ion: 75 Resp: 12141

Ion Ratio Lower Upper

75 100

110 6.1 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.996 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

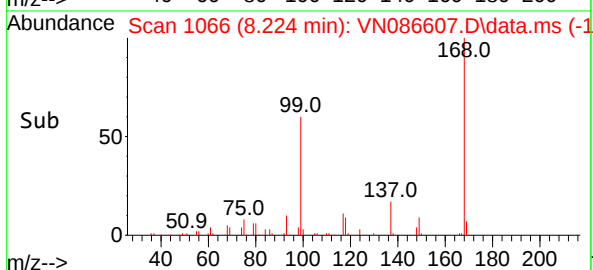
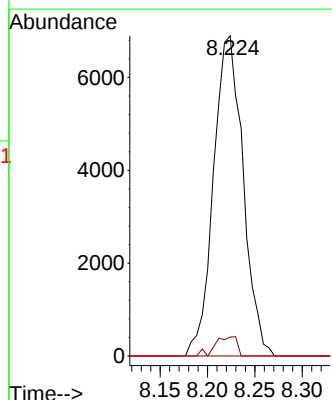
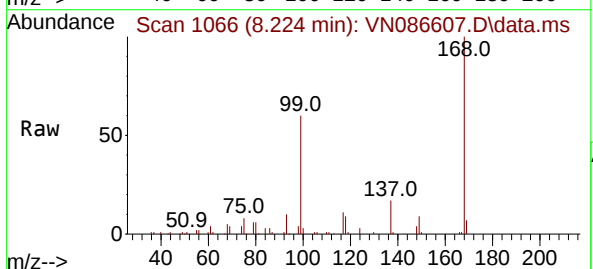
Tgt Ion: 117 Resp: 14988

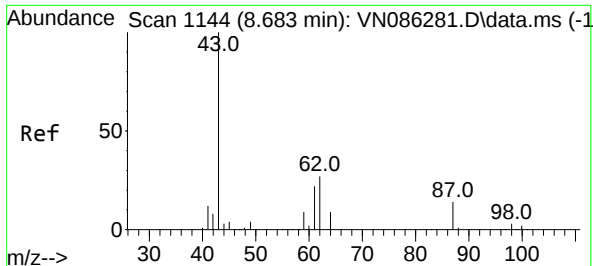
Ion Ratio Lower Upper

117 100

119 5.9 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 8.112 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#05

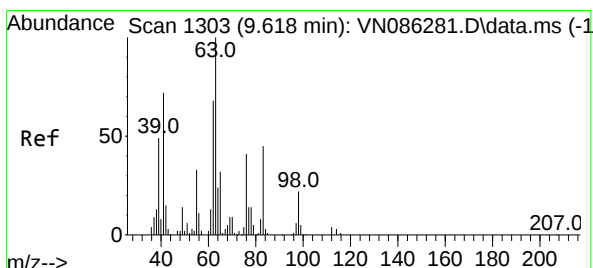
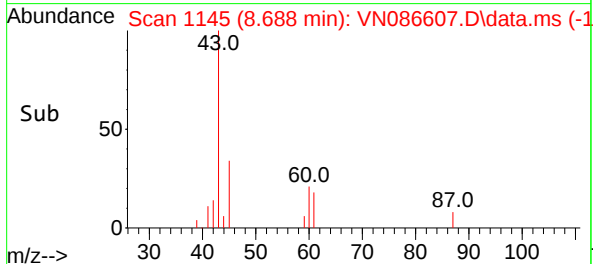
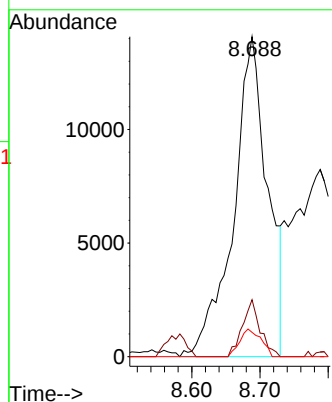
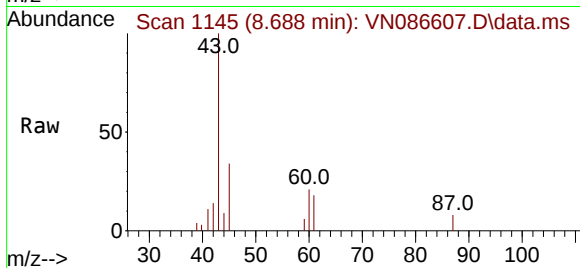
Tgt Ion: 43 Resp: 48737

Ion Ratio Lower Upper

43 100

61 9.3 20.5 30.7#

87 5.4 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.431 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086607.D

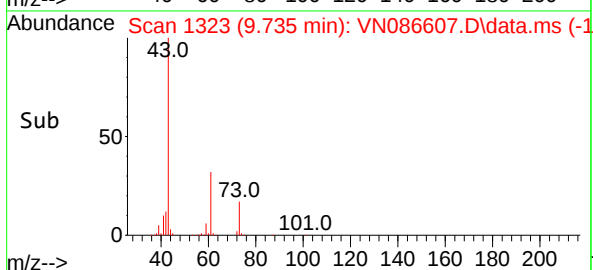
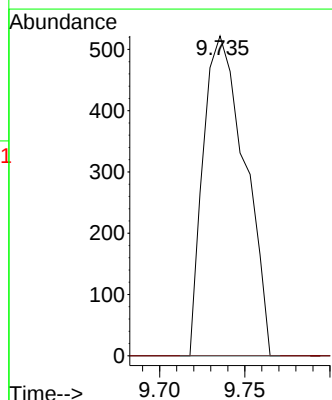
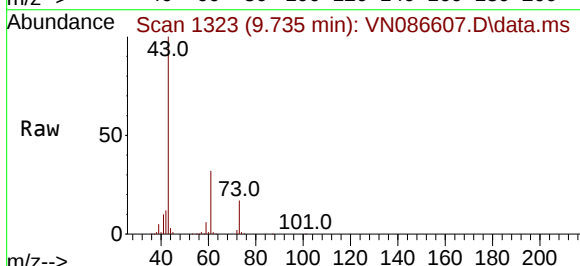
Acq: 13 May 2025 17:25

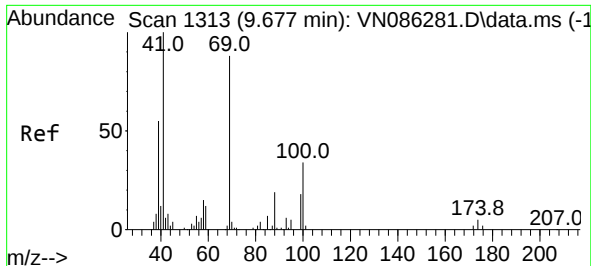
Tgt Ion: 63 Resp: 887

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

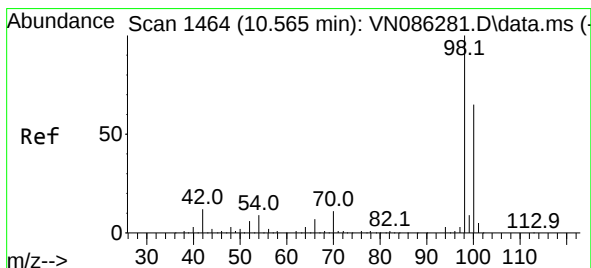
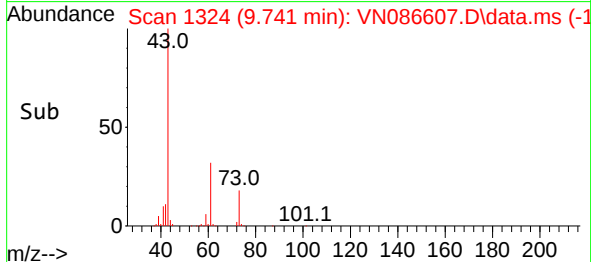
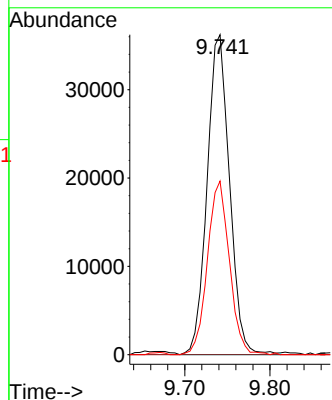
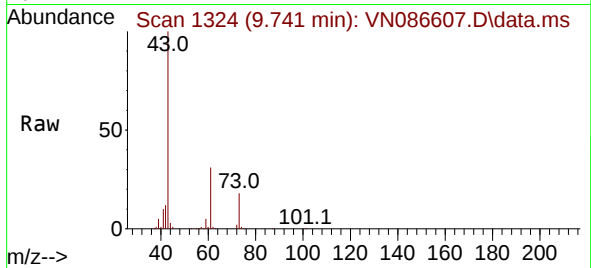




#48
Methyl methacrylate
Concen: 27.249 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

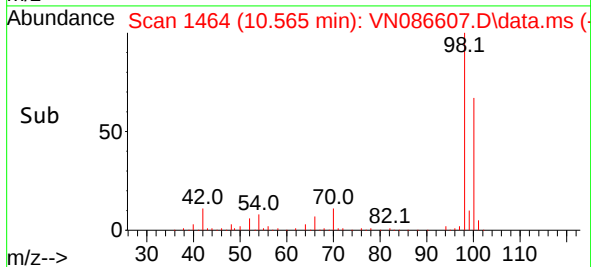
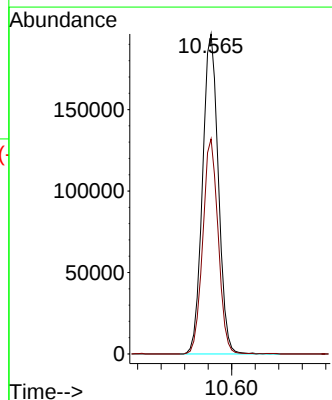
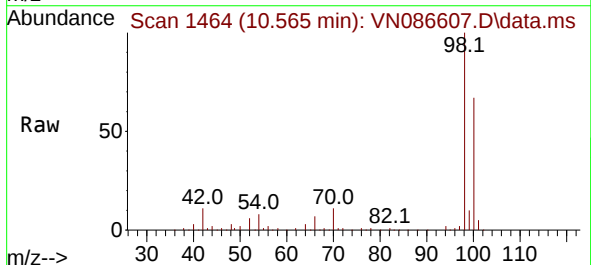
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

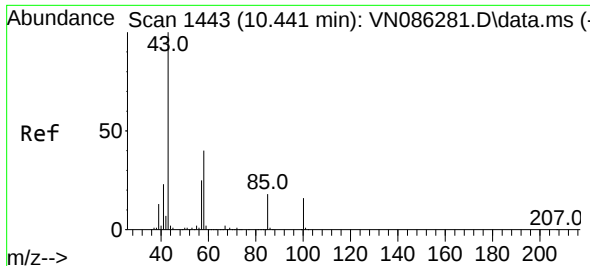
Tgt Ion: 41 Resp: 66126
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.3 45.2 67.8



#50
Toluene-d8
Concen: 52.198 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 98 Resp: 366617
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7

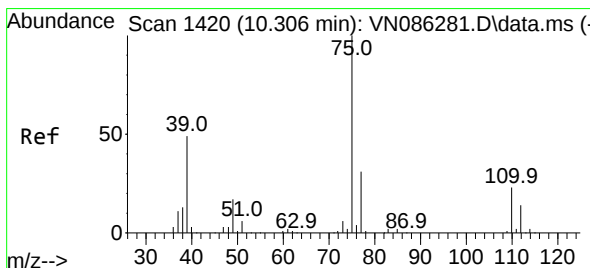
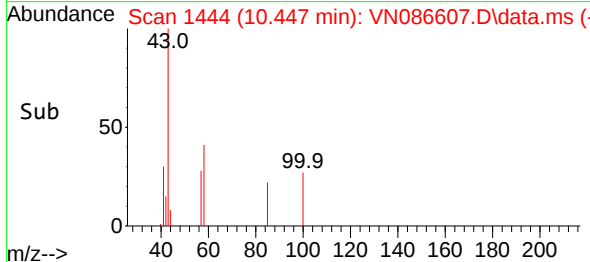
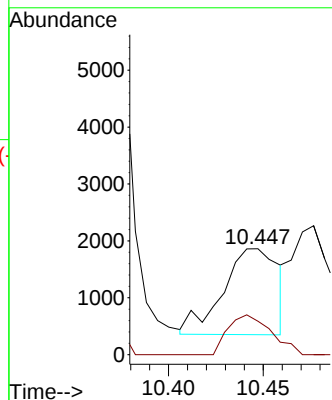
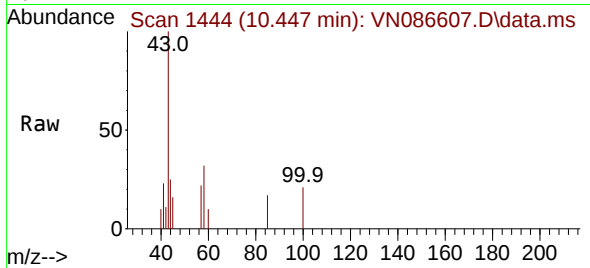




#51
4-Methyl-2-Pentanone
Concen: 1.084 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

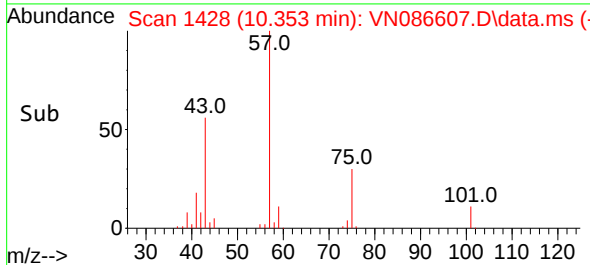
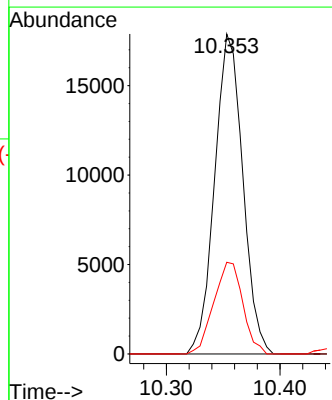
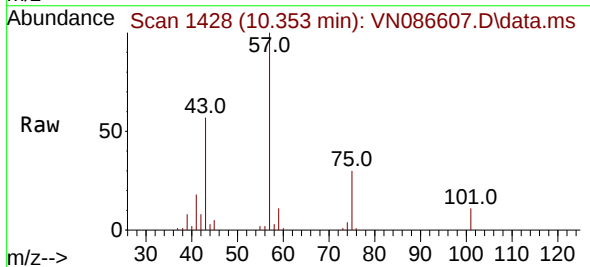
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

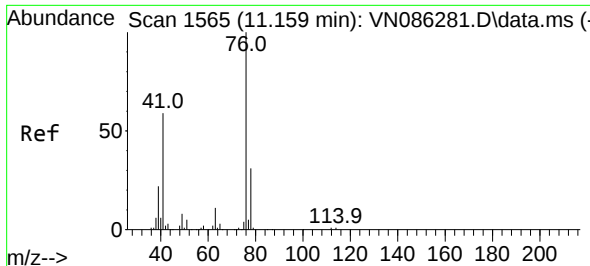
Tgt Ion: 43 Resp: 3067
Ion Ratio Lower Upper
43 100
58 36.4 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.856 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 75 Resp: 30758
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 28.6 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.869 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

Instrument :

MSVOA_N

ClientSampleId :

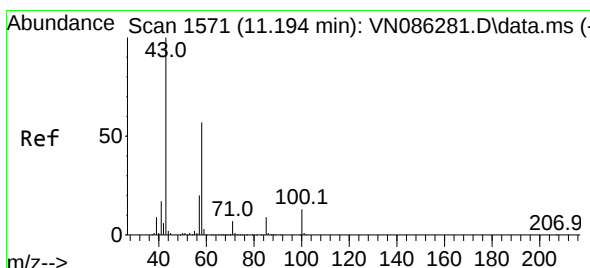
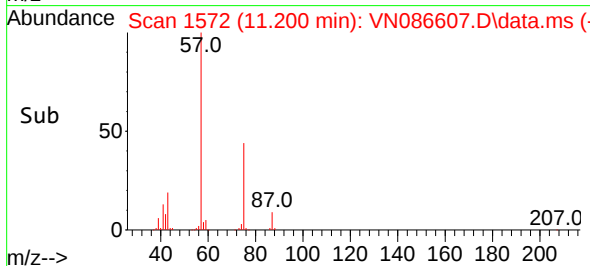
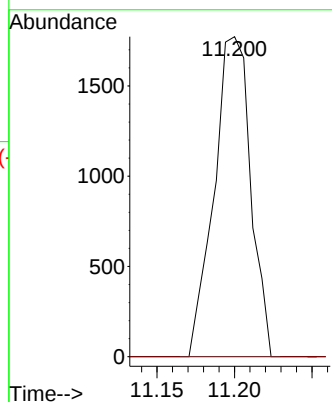
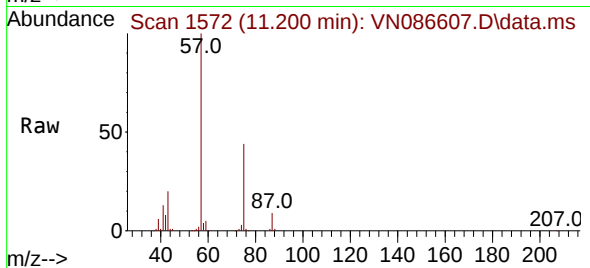
PB167964ZHE#05

Tgt Ion: 76 Resp: 2910

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 24.495 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086607.D

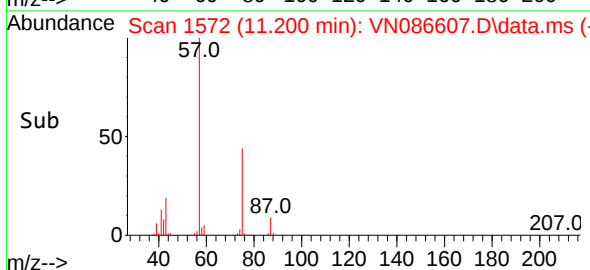
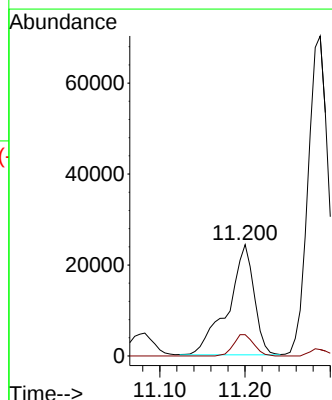
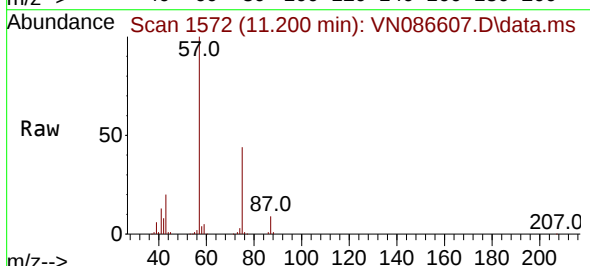
Acq: 13 May 2025 17:25

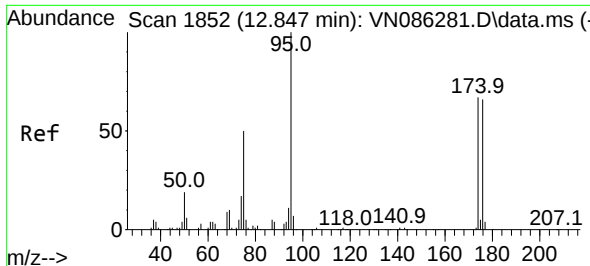
Tgt Ion: 43 Resp: 51413

Ion Ratio Lower Upper

43 100

58 15.1 28.3 85.0#

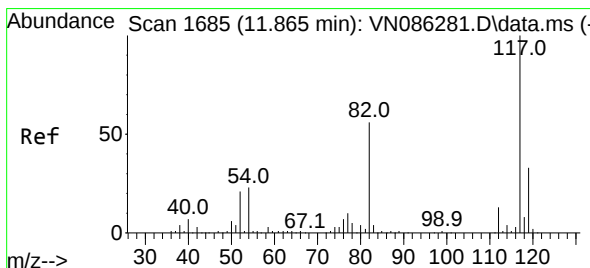
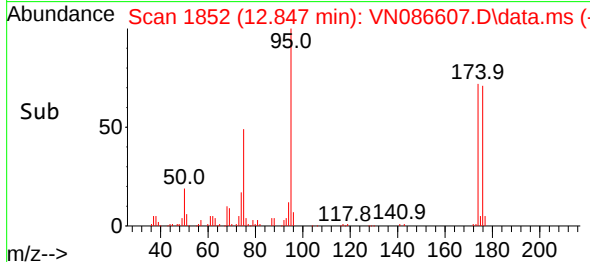
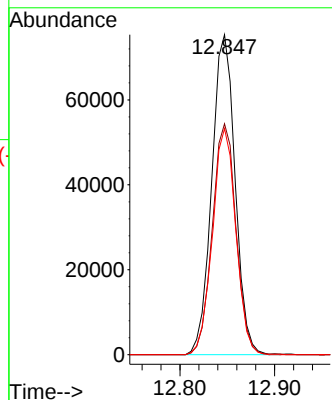
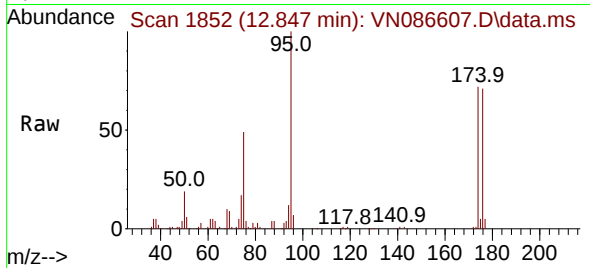




#62
4-Bromofluorobenzene
Concen: 50.203 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

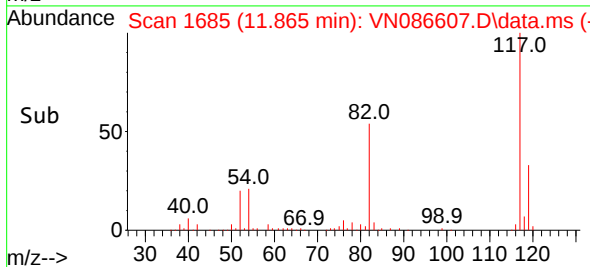
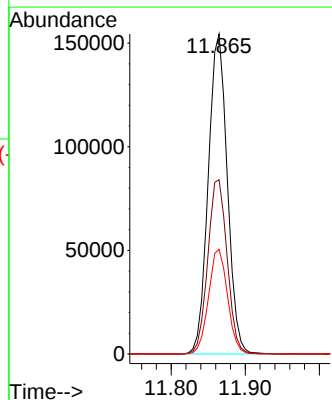
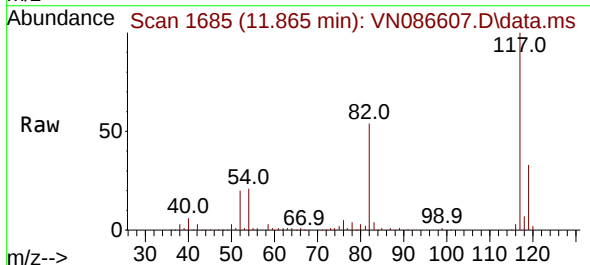
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

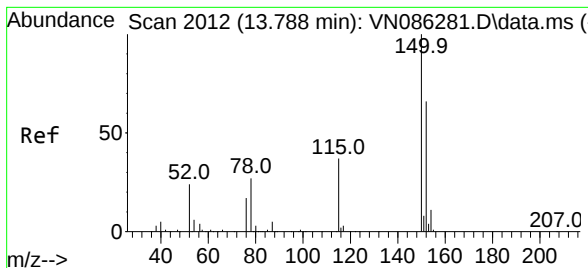
Tgt Ion: 95 Resp: 128609
Ion Ratio Lower Upper
95 100
174 73.5 0.0 133.4
176 70.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 117 Resp: 275475
Ion Ratio Lower Upper
117 100
82 54.4 44.7 67.1
119 32.7 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#05

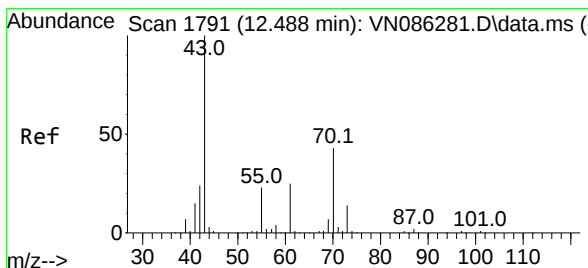
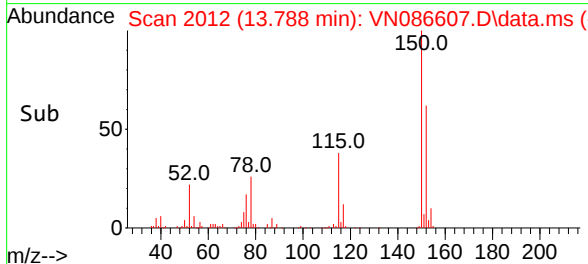
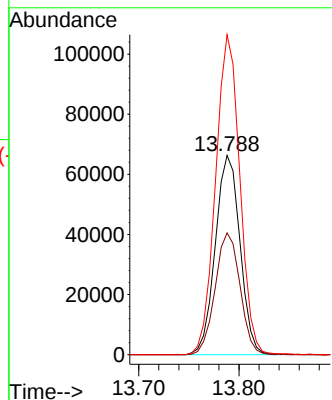
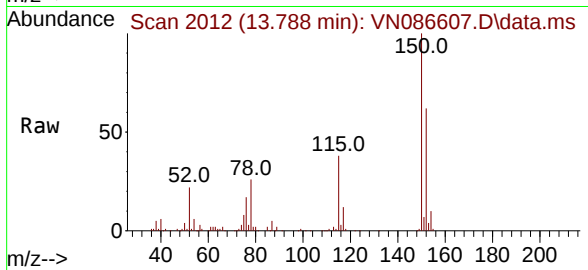
Tgt Ion:152 Resp: 113287

Ion Ratio Lower Upper

152 100

115 61.5 31.9 95.9

150 157.5 0.0 352.0



#74

N-ethyl acetate

Concen: 0.541 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.029 min

Lab File: VN086607.D

Acq: 13 May 2025 17:25

Tgt Ion: 43 Resp: 2497

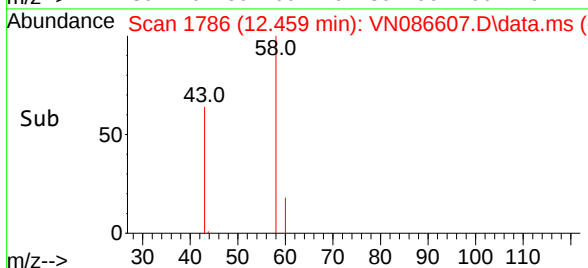
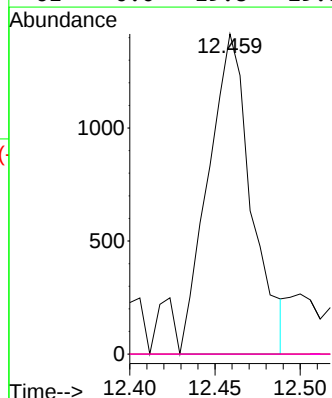
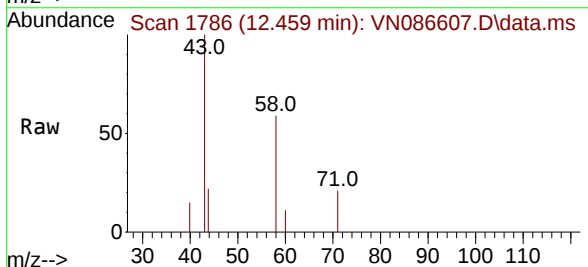
Ion Ratio Lower Upper

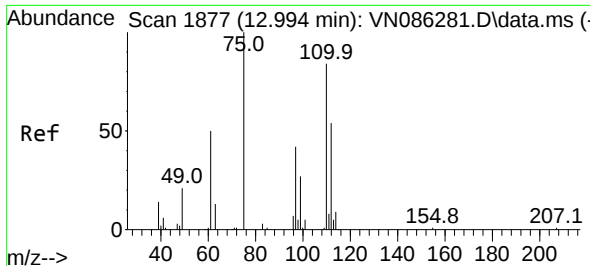
43 100

70 0.0 35.0 52.4#

55 0.0 19.0 28.4#

61 0.0 19.8 29.8#

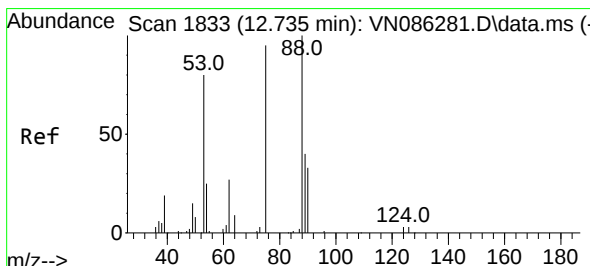
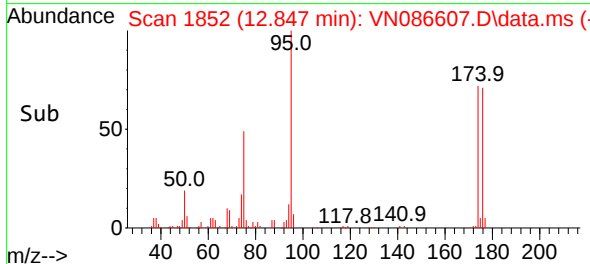
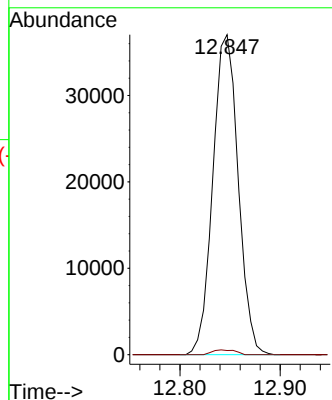
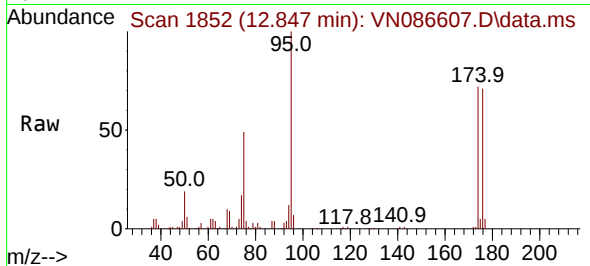




#76
1,2,3-Trichloropropane
Concen: 24.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#05

Tgt Ion: 75 Resp: 64888
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.292 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086607.D
Acq: 13 May 2025 17:25

Tgt Ion: 75 Resp: 64888
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

