

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086609.D
 Acq On : 13 May 2025 18:13
 Operator : JC\MD
 Sample : PB167964ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#07

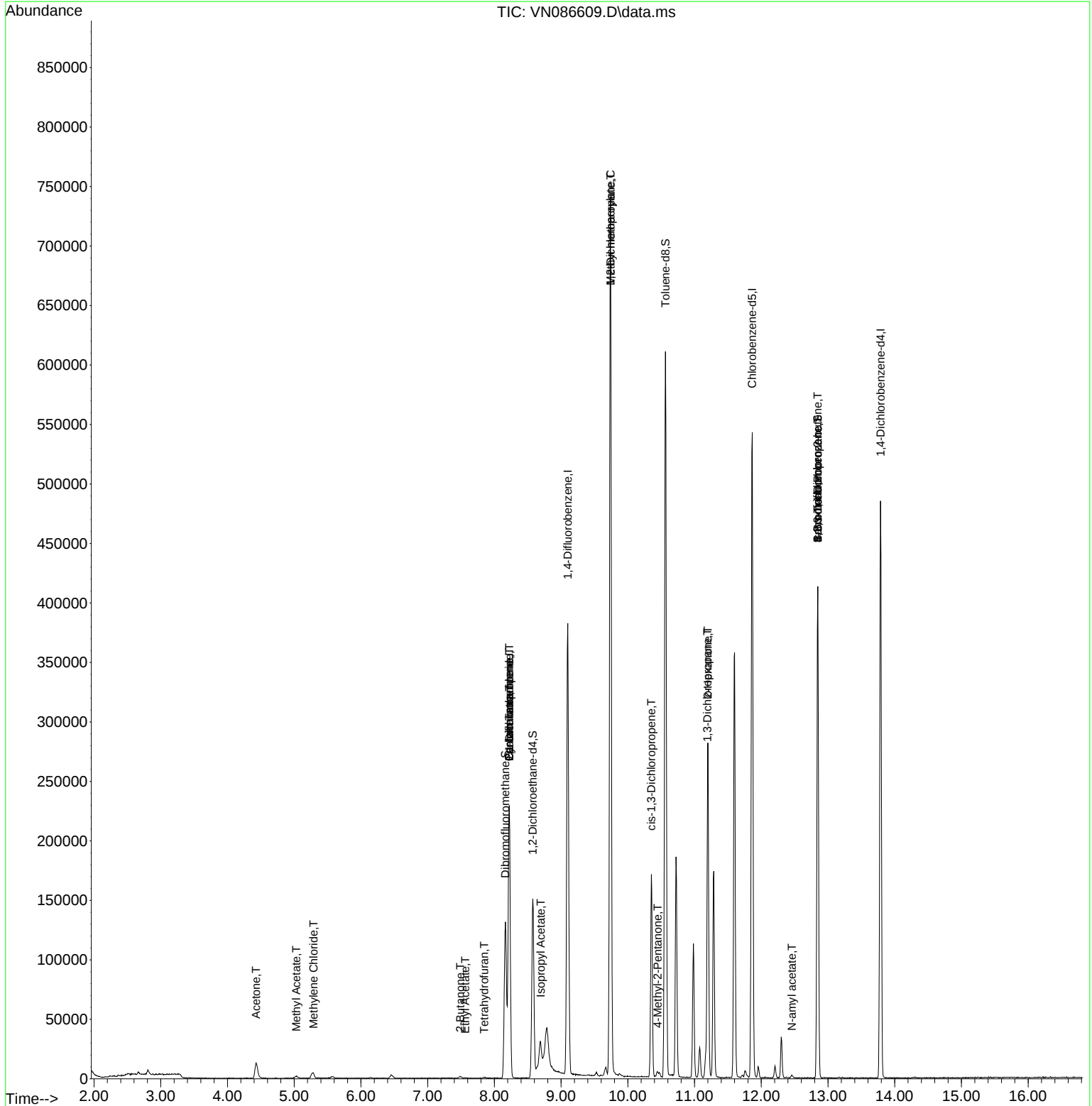
Quant Time: May 14 01:48:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	172552	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	335441	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	319641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	134172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	124096	49.596	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.200%			
35) Dibromofluoromethane	8.165	113	98434	63.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 126.460%#			
50) Toluene-d8	10.565	98	432877	52.026	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.060%			
62) 4-Bromofluorobenzene	12.847	95	149809	49.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.720%			
Target Compounds						
					Qvalue	
16) Acetone	4.430	43	25658	24.512	ug/l	98
18) Methyl Acetate	5.030	43	3875	1.290	ug/l #	82
20) Methylene Chloride	5.289	84	3961	1.712	ug/l #	82
25) 2-Butanone	7.488	43	3067	1.969	ug/l	95
29) Tetrahydrofuran	7.847	42	714	0.686	ug/l #	32
31) Cyclohexane	8.224	56	3744	0.923	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13857	4.456	ug/l #	48
37) Ethyl Acetate	7.565	43	844	0.258	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17919	6.051	ug/l #	16
43) Isopropyl Acetate	8.694	43	46399	6.143	ug/l #	73
45) 1,2-Dichloropropane	9.741	63	767	0.315	ug/l #	43
48) Methyl methacrylate	9.741	41	66544	23.147	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	3753	1.120	ug/l	88
54) cis-1,3-Dichloropropene	10.353	75	31819	7.733	ug/l #	60
57) 1,3-Dichloropropane	11.194	76	2839	0.715	ug/l #	43
59) 2-Hexanone	11.200	43	51812	20.837	ug/l #	44
71) Bromoform	12.847	173	727	0.410	ug/l #	1
74) N-amyl acetate	12.459	43	2152	0.394	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	76010	24.006	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	76010	57.654	ug/l #	10

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

Quant Time: May 14 01:48:59 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

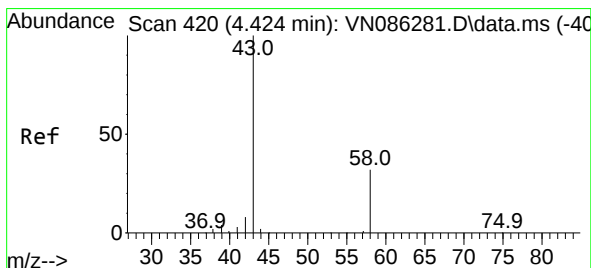
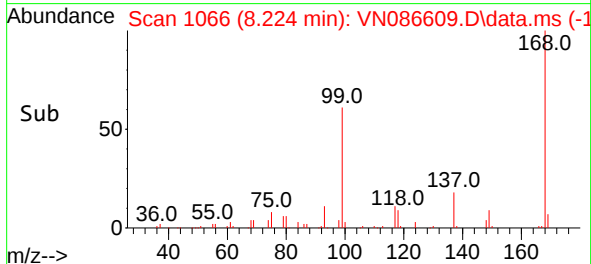
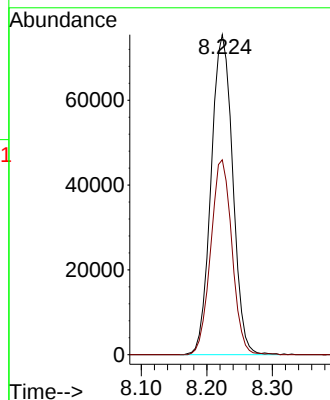
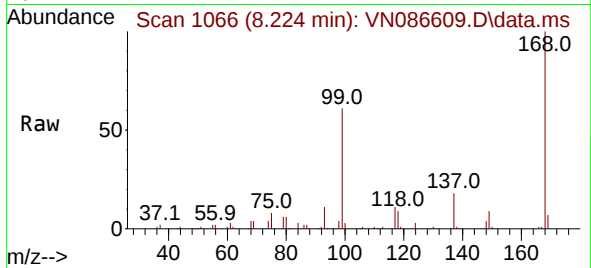




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

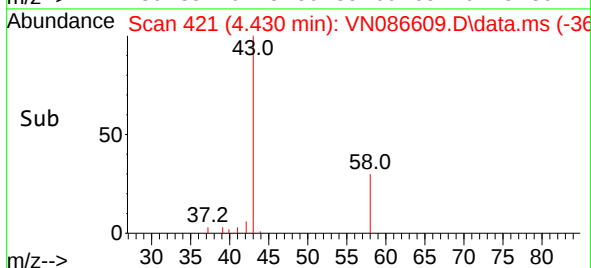
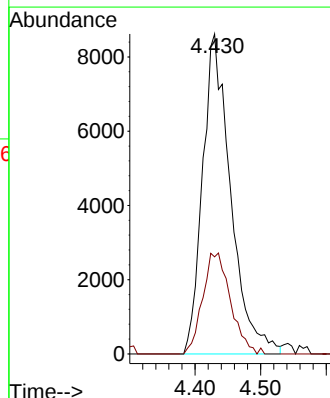
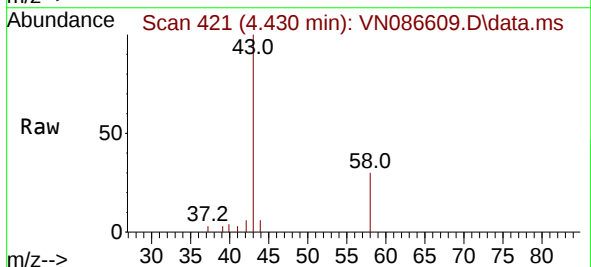
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

Tgt Ion:168 Resp: 172552
Ion Ratio Lower Upper
168 100
99 60.9 52.5 78.7



#16
Acetone
Concen: 24.512 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 43 Resp: 25658
Ion Ratio Lower Upper
43 100
58 30.3 25.3 37.9

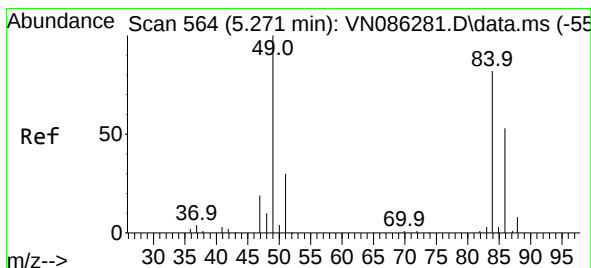
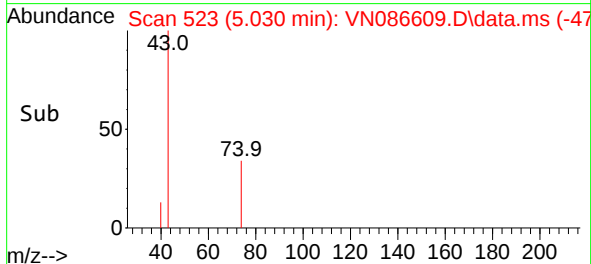
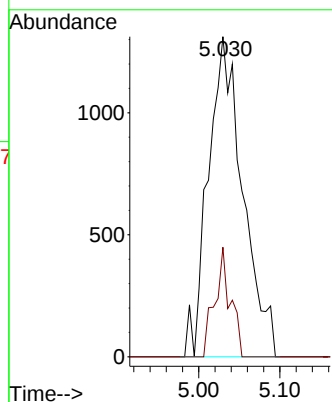
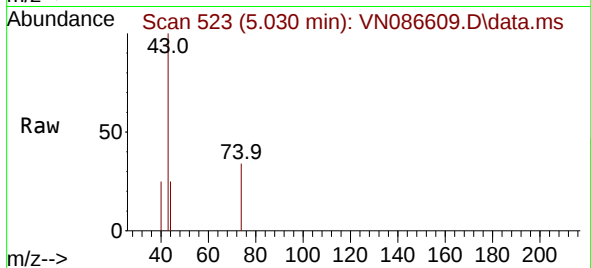




#18
Methyl Acetate
Concen: 1.290 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

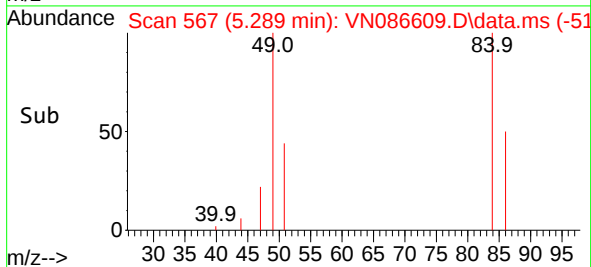
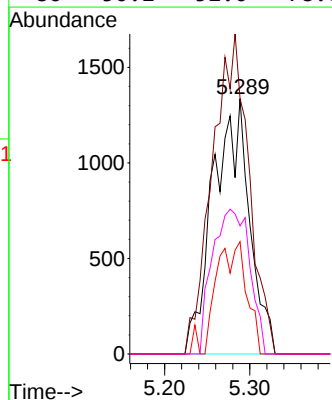
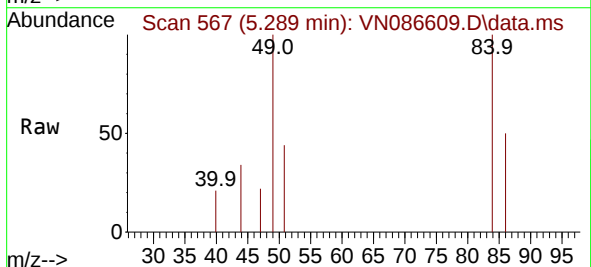
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MSVOA_N
ClientSampleId :
PB167964ZHE#07

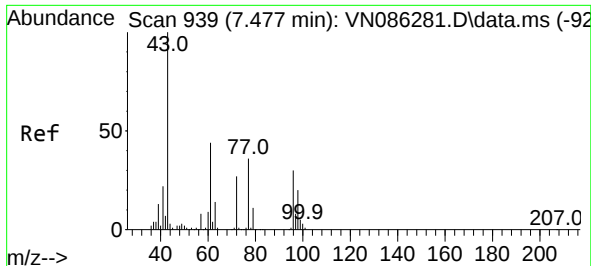
Tgt Ion: 43 Resp: 3875
Ion Ratio Lower Upper
43 100
74 15.5 19.8 29.6#



#20
Methylene Chloride
Concen: 1.712 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.018 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 84 Resp: 3961
Ion Ratio Lower Upper
84 100
49 100.0 98.2 147.2
51 44.0 29.8 44.6
86 50.2 52.0 78.0#

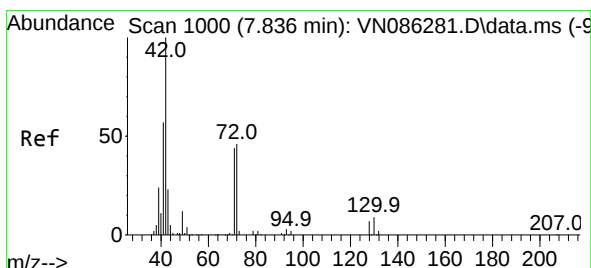
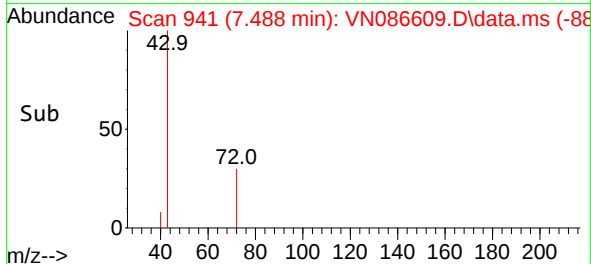
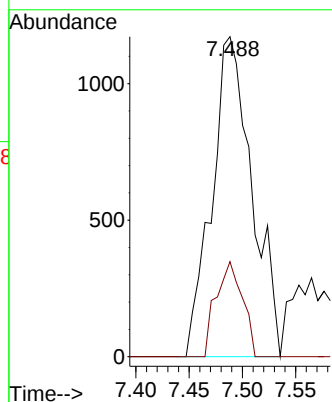
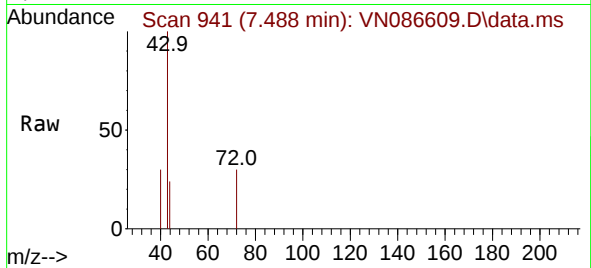




#25
2-Butanone
Concen: 1.969 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

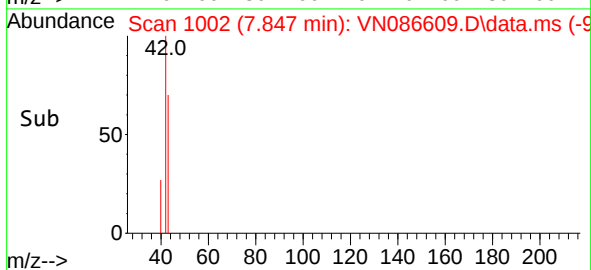
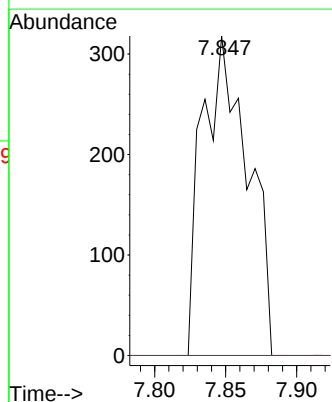
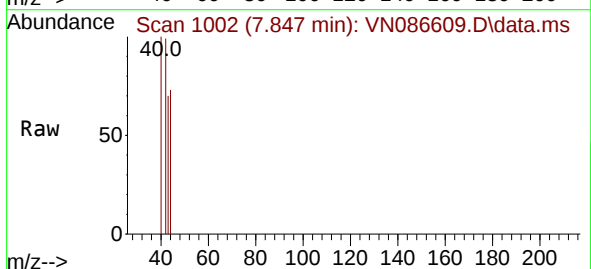
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

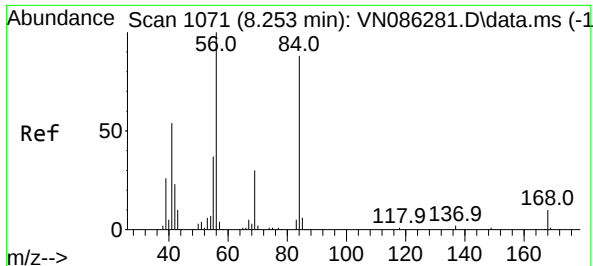
Tgt Ion: 43 Resp: 3067
Ion Ratio Lower Upper
43 100
72 29.7 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.686 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

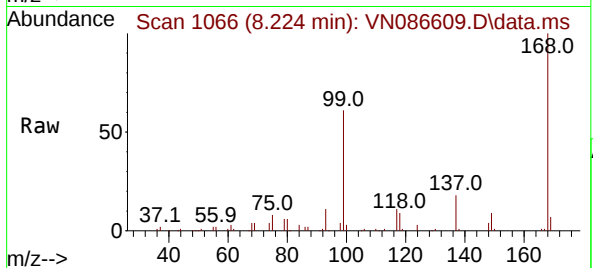
Tgt Ion: 42 Resp: 714
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#



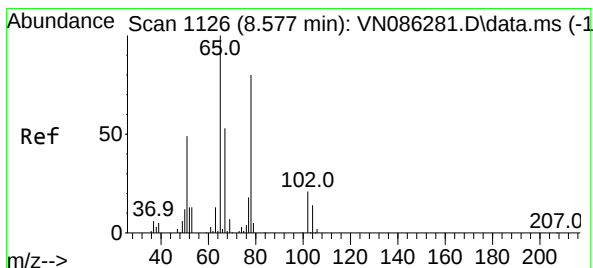
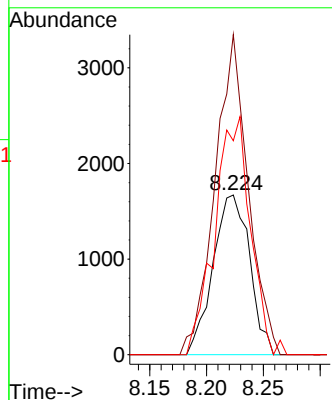
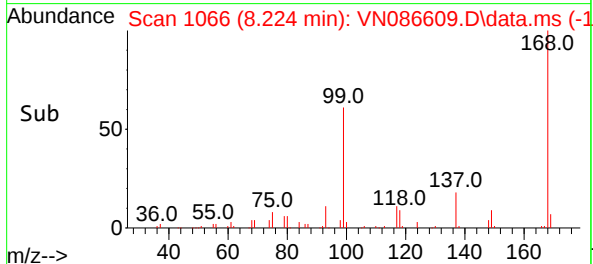


#31
Cyclohexane
Concen: 0.923 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

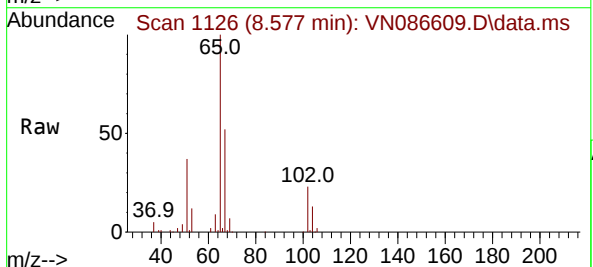
Instrument :
MSVOA_N
ClientSampleId :
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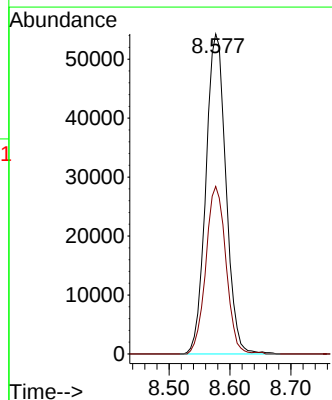
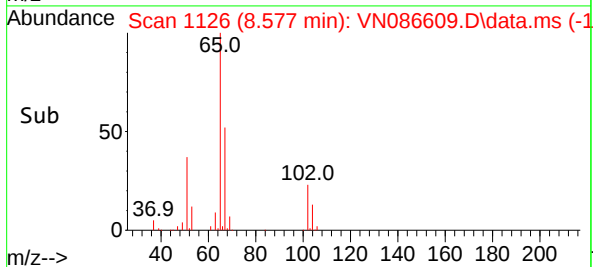
Tgt Ion: 56 Resp: 3744
Ion Ratio Lower Upper
56 100
69 200.3 24.2 36.2#
84 133.9 70.3 105.5#

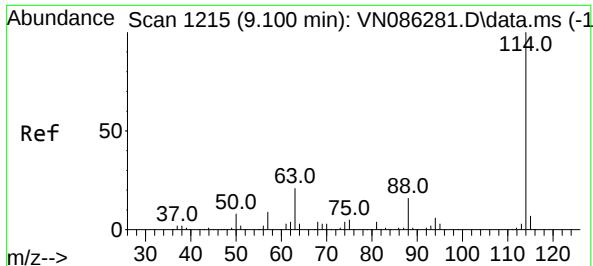


#33
1,2-Dichloroethane-d4
Concen: 49.596 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13



Tgt Ion: 65 Resp: 124096
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#07

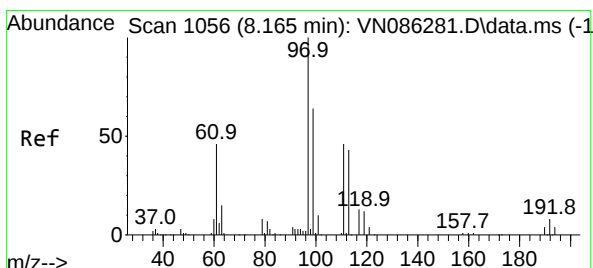
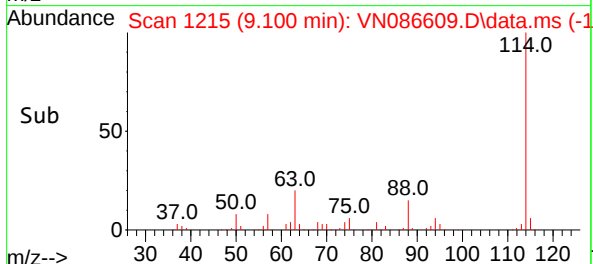
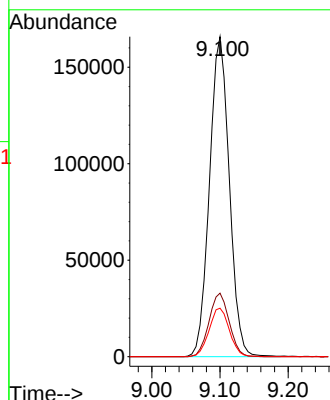
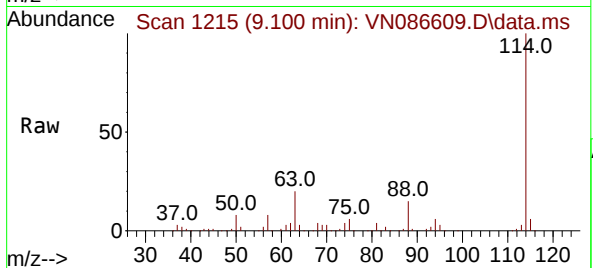
Tgt Ion:114 Resp: 335441

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.227 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

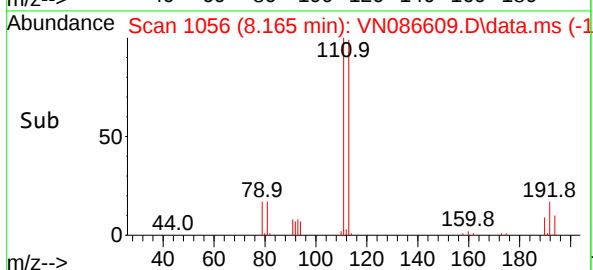
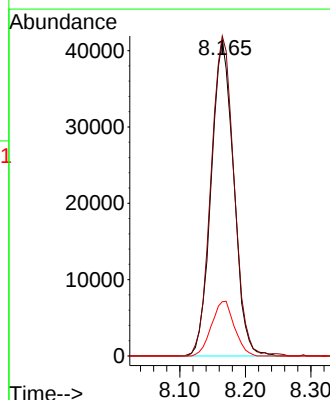
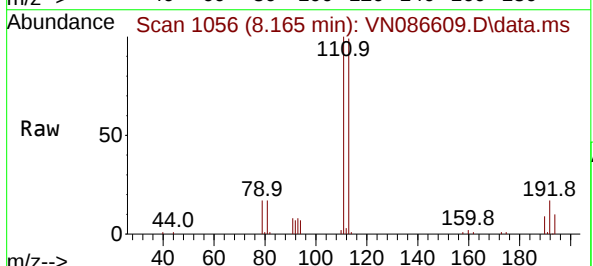
Tgt Ion:113 Resp: 98434

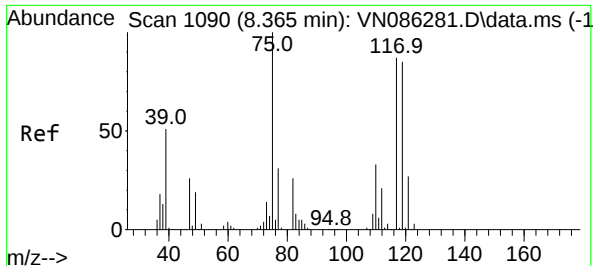
Ion Ratio Lower Upper

113 100

111 103.8 83.4 125.0

192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.456 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#07

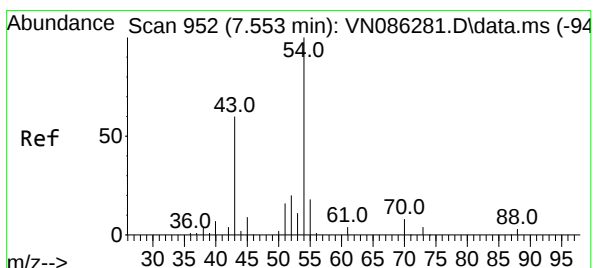
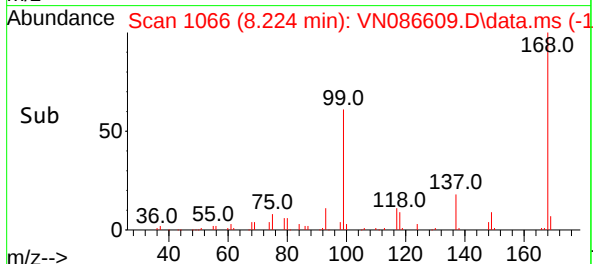
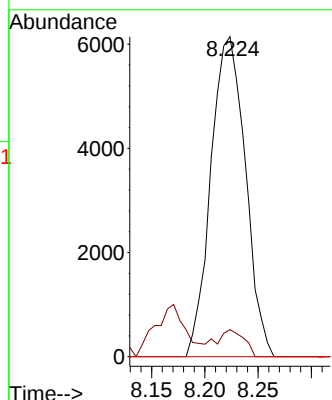
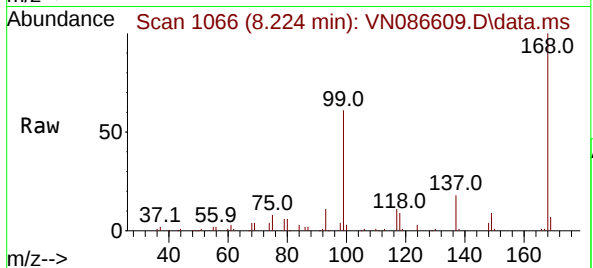
Tgt Ion: 75 Resp: 13857

Ion Ratio Lower Upper

75 100

110 6.7 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.258 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

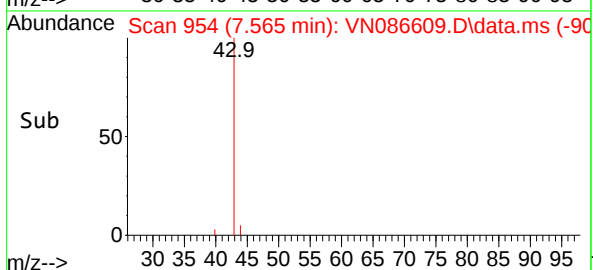
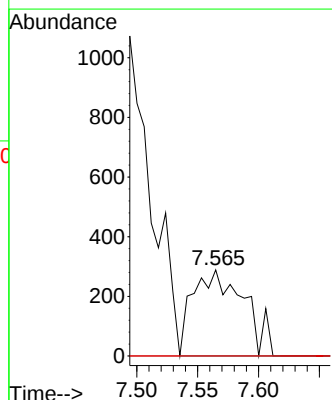
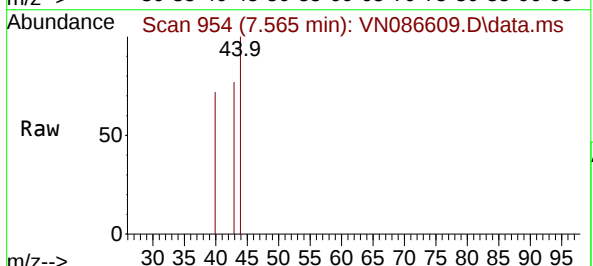
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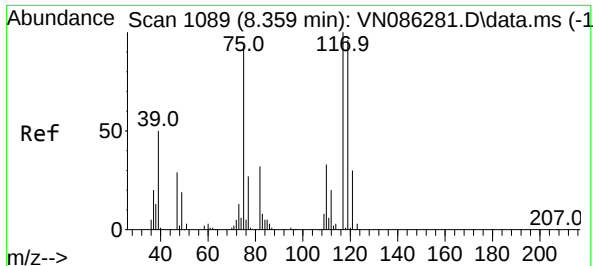
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

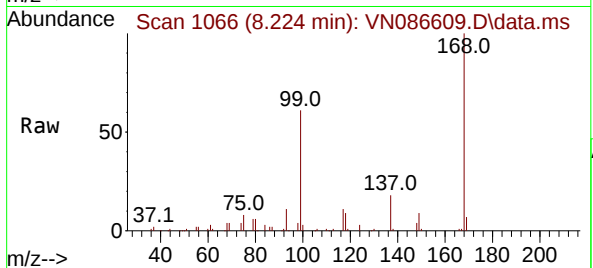
70 0.0 9.2 13.8#



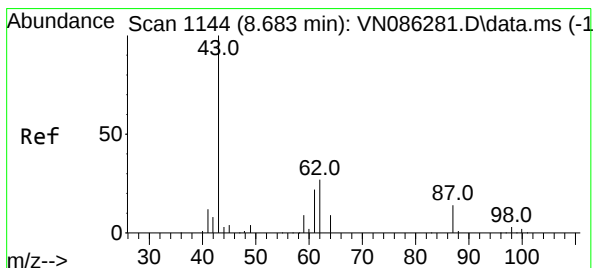
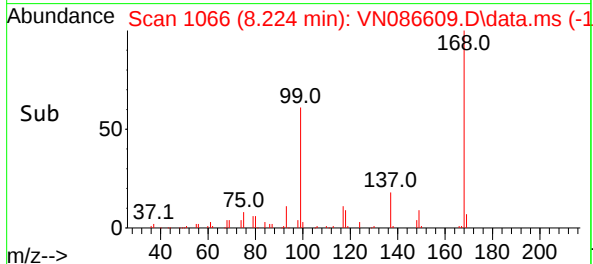
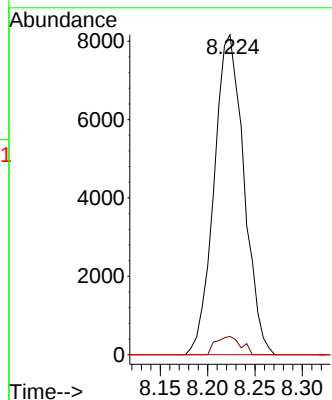


#38
Carbon Tetrachloride
Concen: 6.051 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

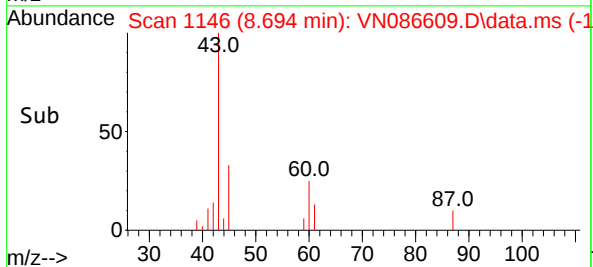
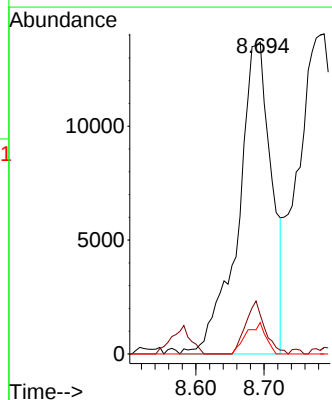
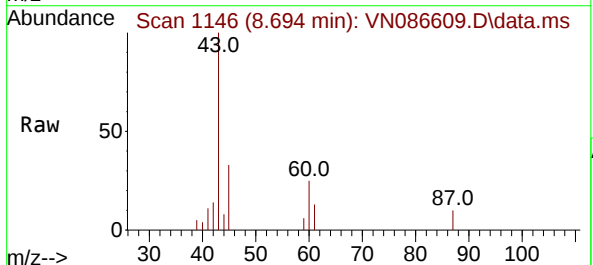


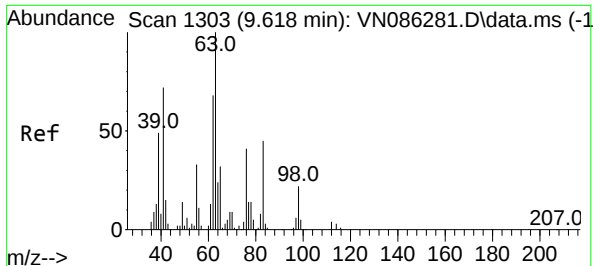
Tgt Ion: 117 Resp: 17919
Ion Ratio Lower Upper
117 100
119 5.7 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.143 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.011 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 43 Resp: 46399
Ion Ratio Lower Upper
43 100
61 9.7 20.5 30.7#
87 5.9 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.315 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

Instrument :

MSVOA_N

ClientSampleId :

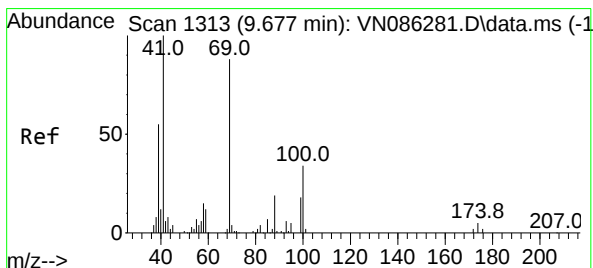
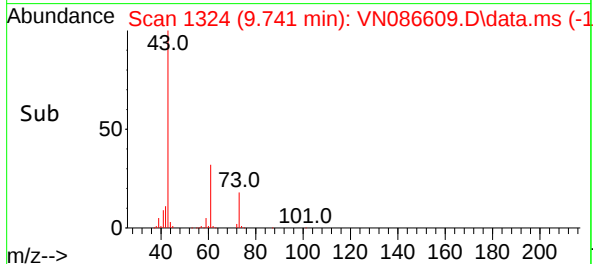
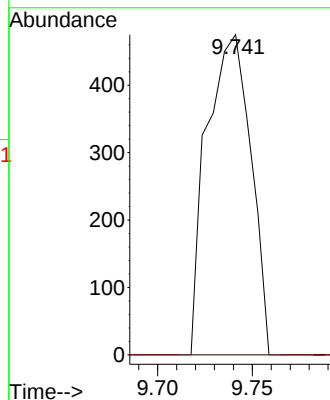
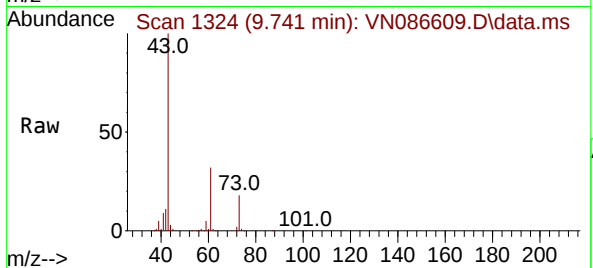
PB167964ZHE#07

Tgt Ion: 63 Resp: 767

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 23.147 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

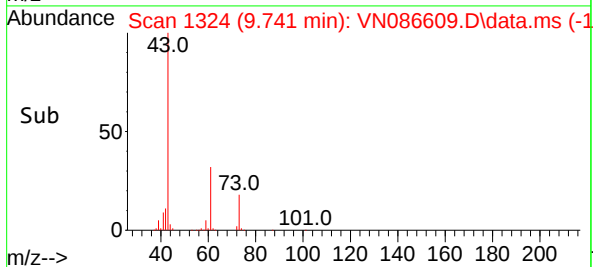
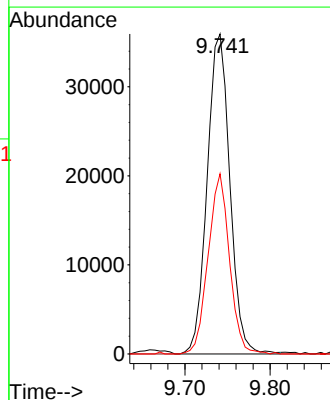
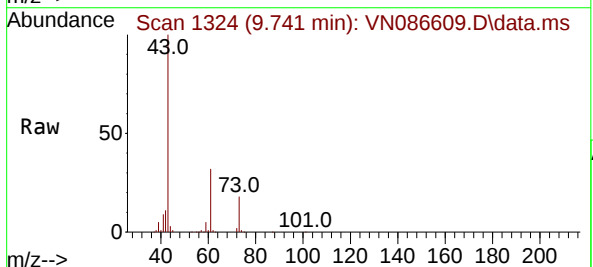
Tgt Ion: 41 Resp: 66544

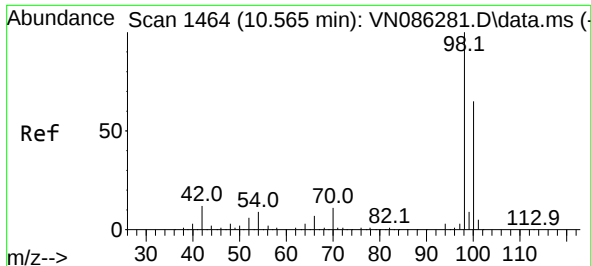
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.0 45.2 67.8

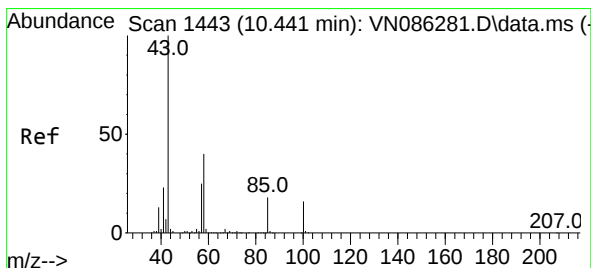
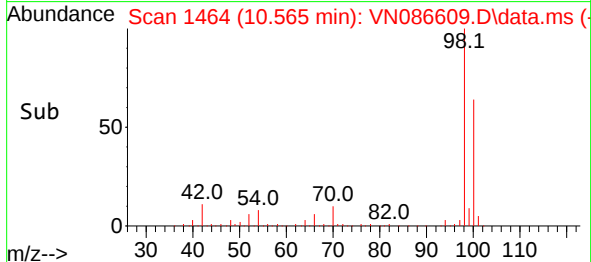
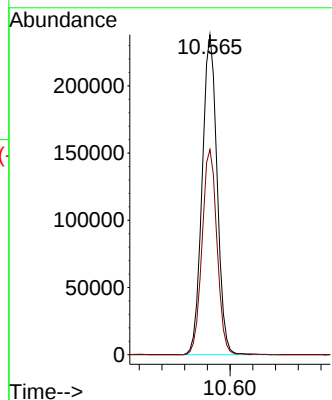
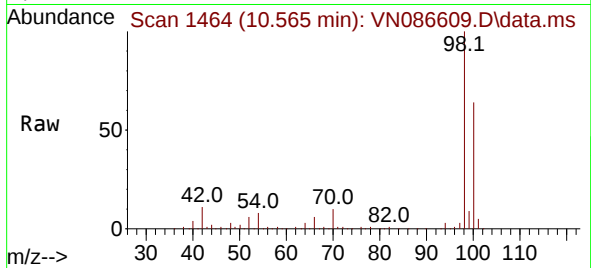




#50
Toluene-d8
Concen: 52.026 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

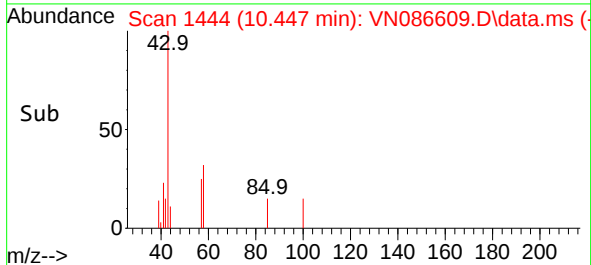
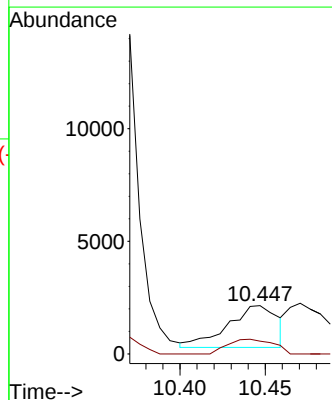
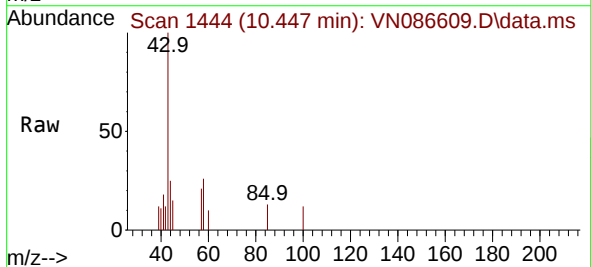
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

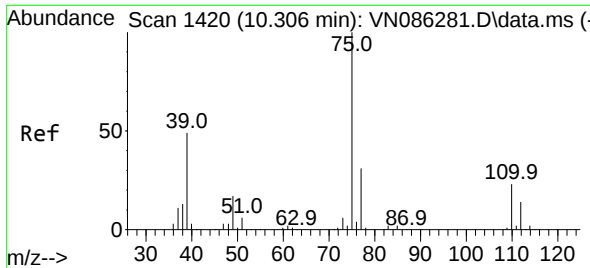
Tgt Ion: 98 Resp: 432877
Ion Ratio Lower Upper
98 100
100 64.1 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.120 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 43 Resp: 3753
Ion Ratio Lower Upper
43 100
58 32.7 32.2 48.4

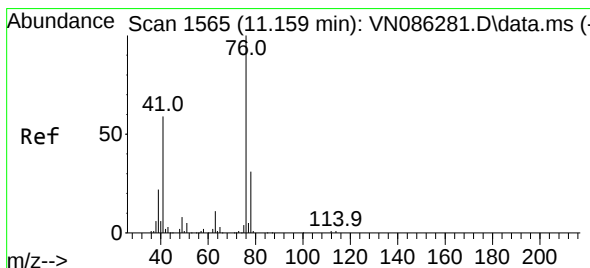
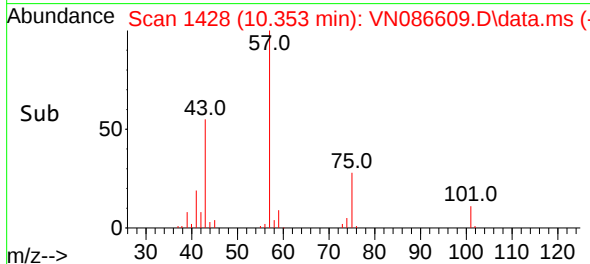
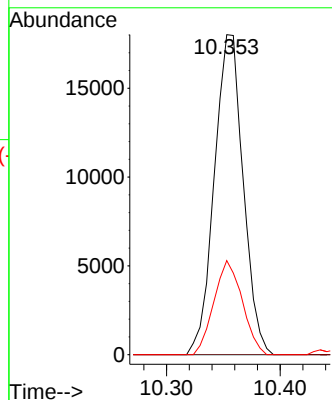
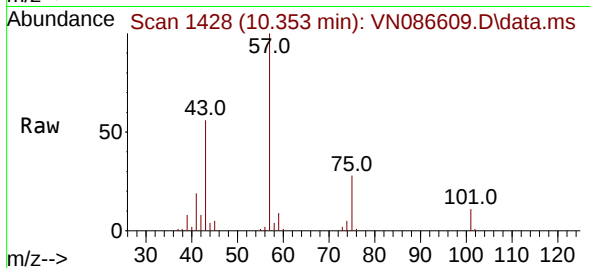




#54
 cis-1,3-Dichloropropene
 Concen: 7.733 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086609.D
 Acq: 13 May 2025 18:13

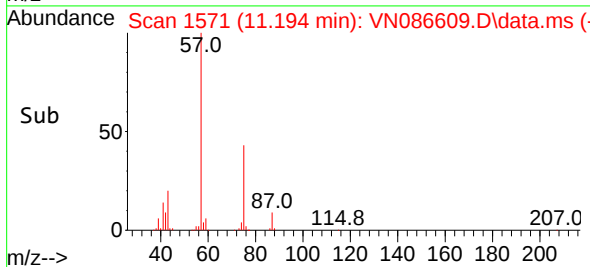
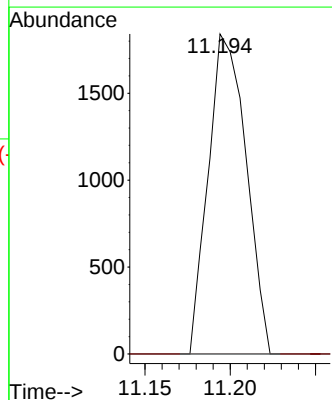
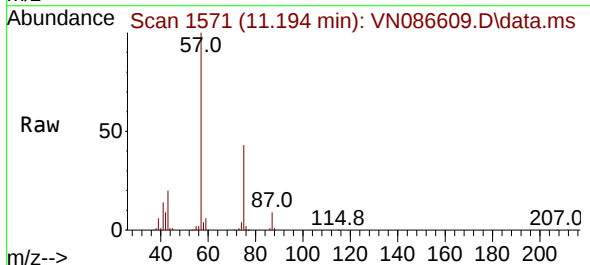
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#07

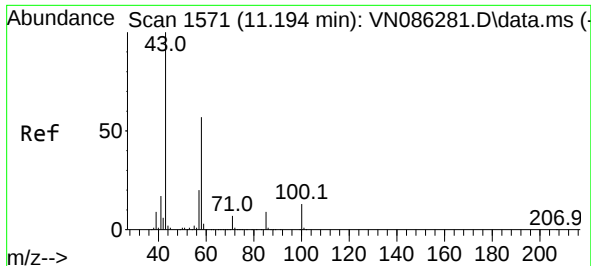
Tgt Ion: 75 Resp: 31819
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.715 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086609.D
 Acq: 13 May 2025 18:13

Tgt Ion: 76 Resp: 2839
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

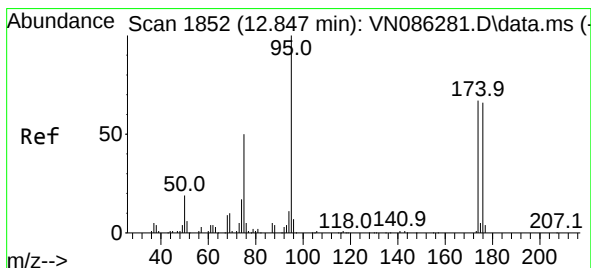
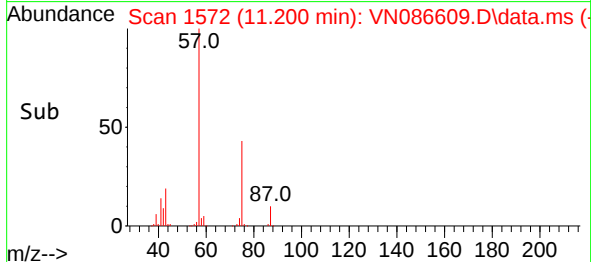
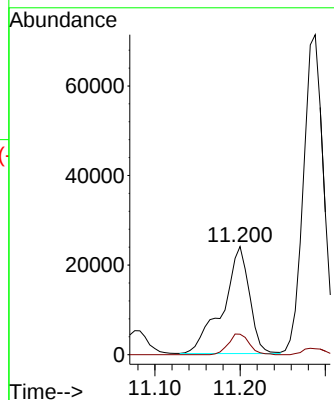
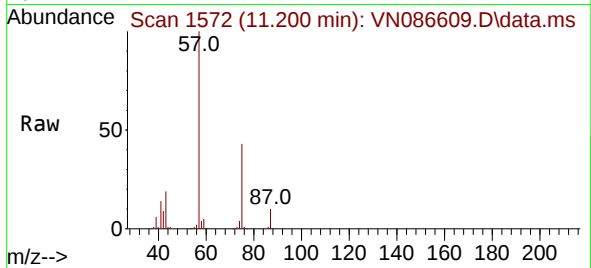




#59
2-Hexanone
Concen: 20.837 ug/l
RT: 11.200 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

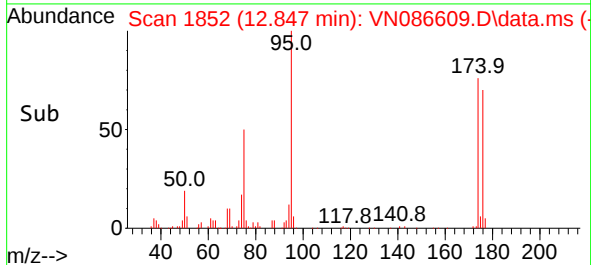
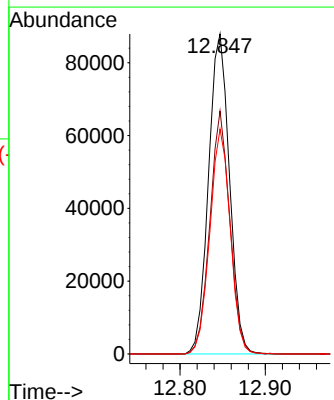
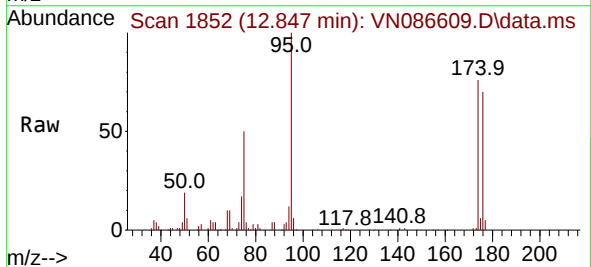
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

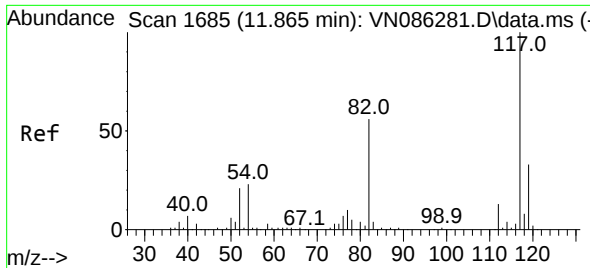
Tgt Ion: 43 Resp: 51812
Ion Ratio Lower Upper
43 100
58 15.2 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 95 Resp: 149809
Ion Ratio Lower Upper
95 100
174 72.5 0.0 133.4
176 68.5 0.0 129.2

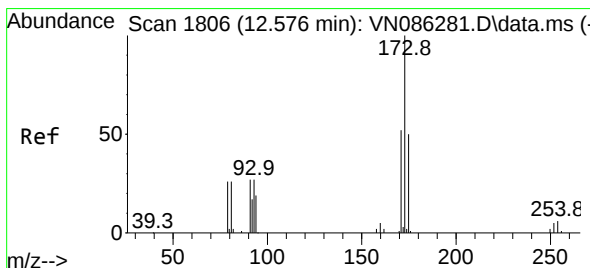
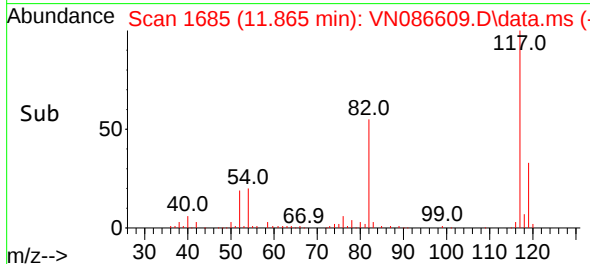
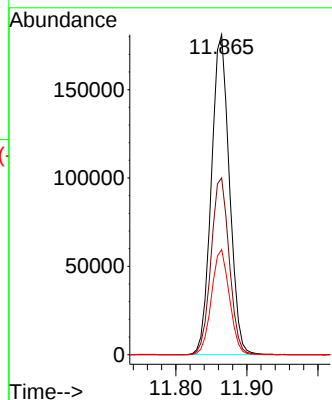
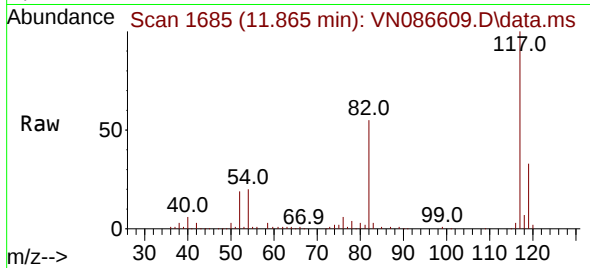




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

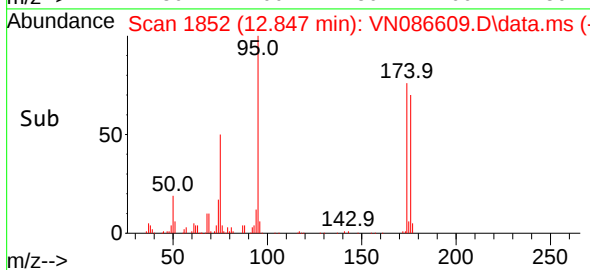
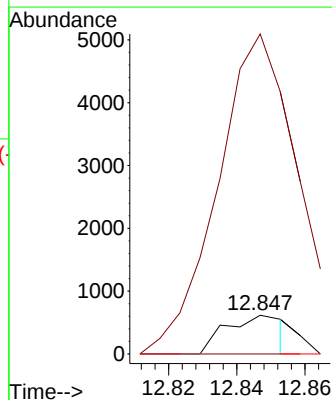
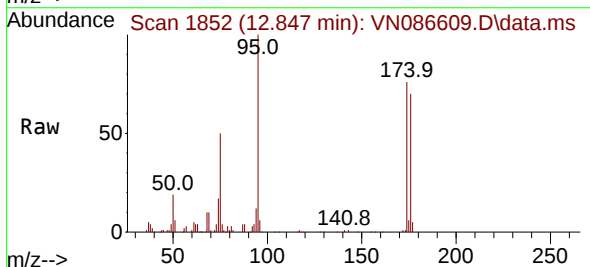
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

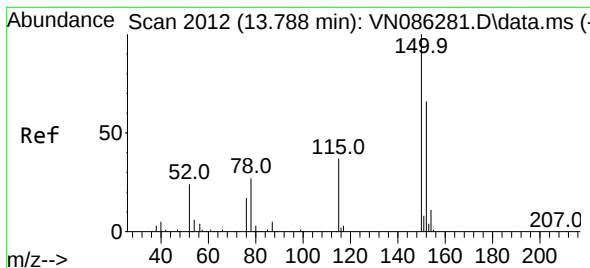
Tgt Ion:117 Resp: 319641
Ion Ratio Lower Upper
117 100
82 55.2 44.7 67.1
119 32.9 26.4 39.6



#71
Bromoform
Concen: 0.410 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion:173 Resp: 727
Ion Ratio Lower Upper
173 100
175 923.9 24.6 73.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#07

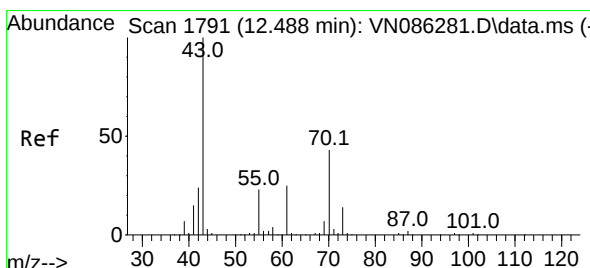
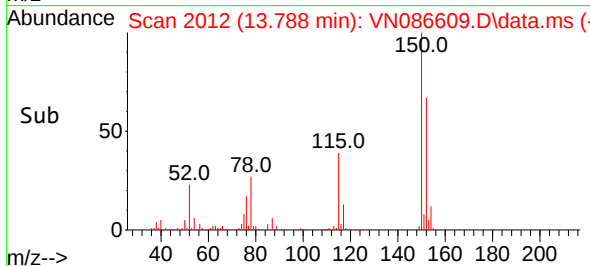
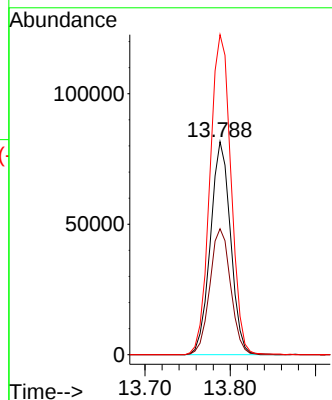
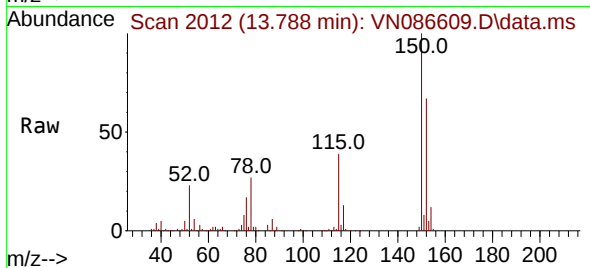
Tgt Ion:152 Resp: 134172

Ion Ratio Lower Upper

152 100

115 60.9 31.9 95.9

150 156.9 0.0 352.0



#74

N-ethyl acetate

Concen: 0.394 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.030 min

Lab File: VN086609.D

Acq: 13 May 2025 18:13

Tgt Ion: 43 Resp: 2152

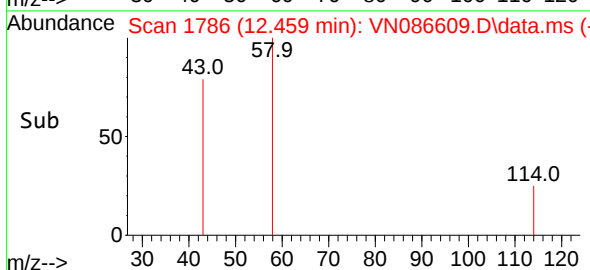
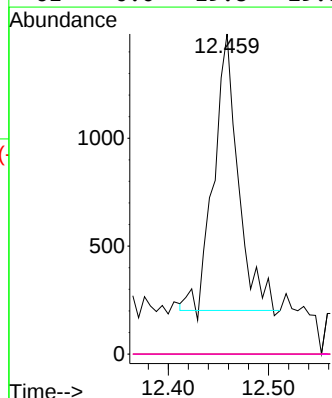
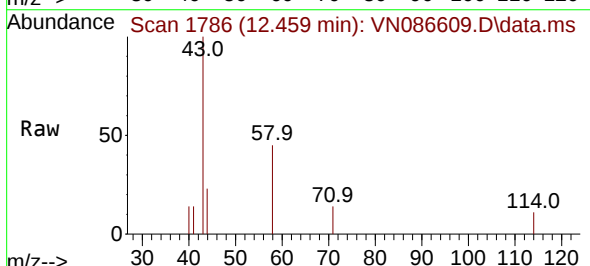
Ion Ratio Lower Upper

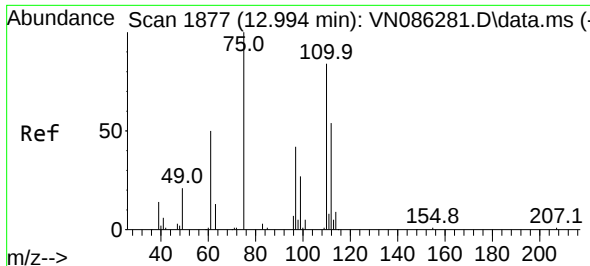
43 100

70 0.0 35.0 52.4#

55 0.0 19.0 28.4#

61 0.0 19.8 29.8#

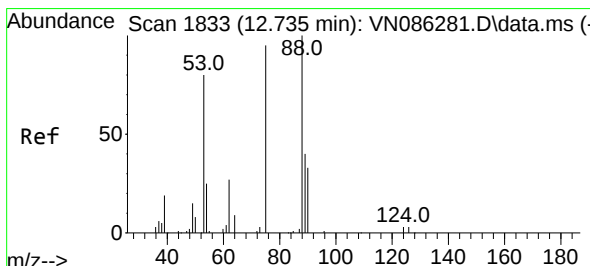
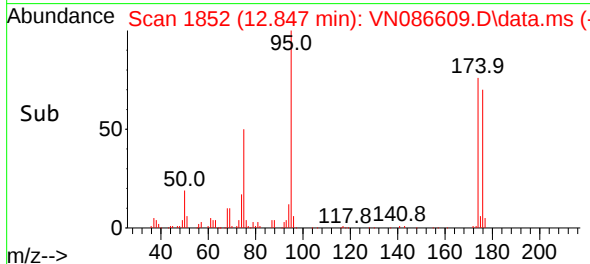
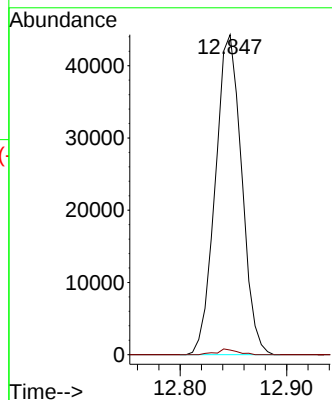
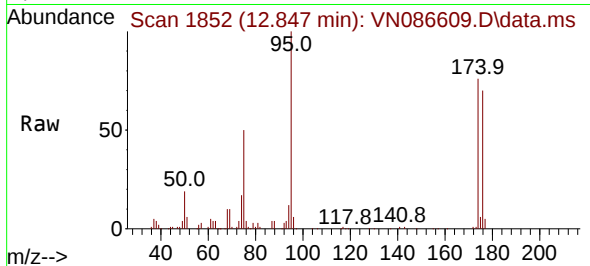




#76
1,2,3-Trichloropropane
Concen: 24.006 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#07

Tgt Ion: 75 Resp: 76010
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.654 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086609.D
Acq: 13 May 2025 18:13

Tgt Ion: 75 Resp: 76010
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.1 35.7 53.5#

