

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086578.D
 Acq On : 12 May 2025 14:04
 Operator : JC\MD
 Sample : PB167932ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#03

Quant Time: May 13 01:51:54 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)

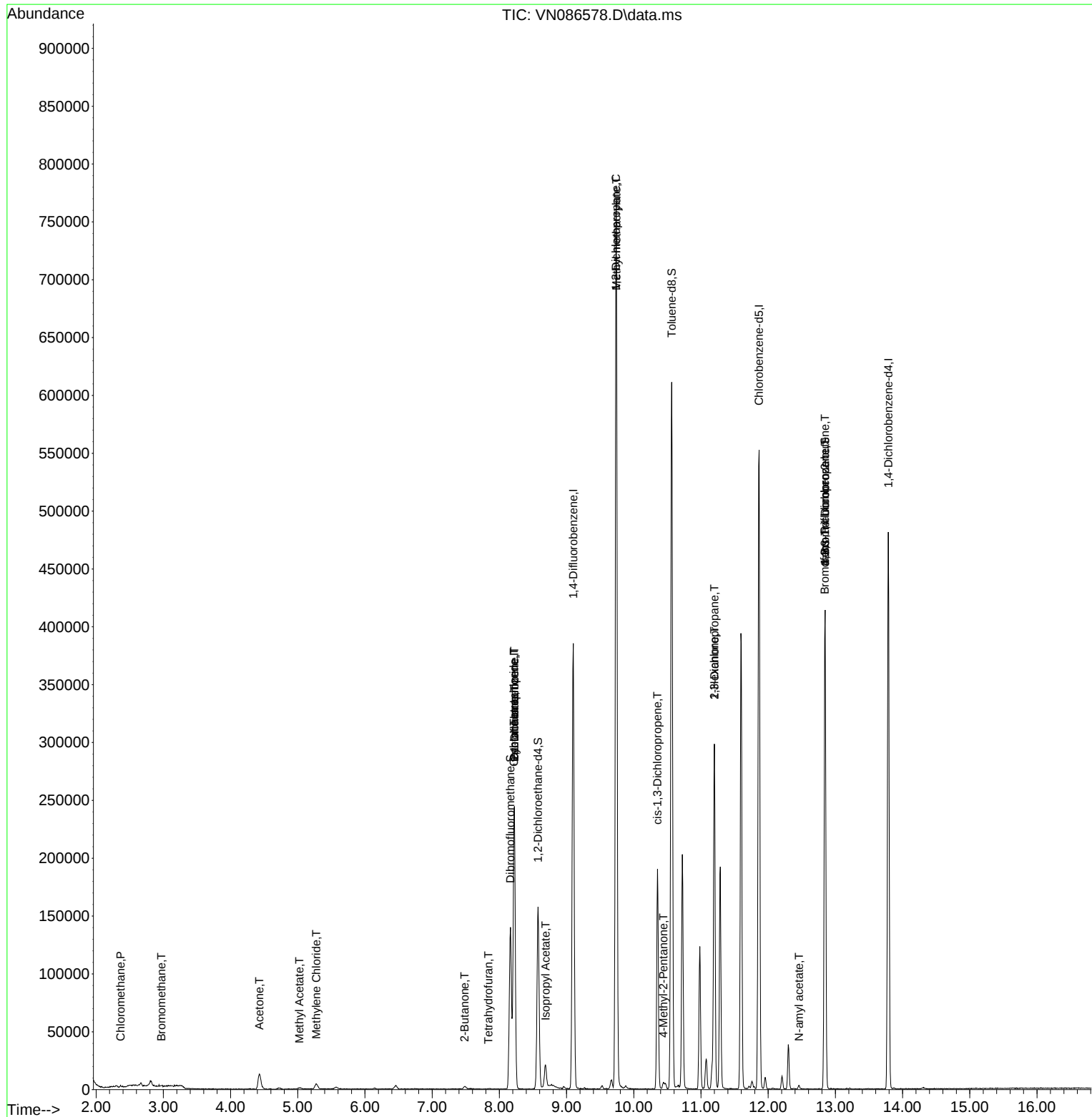
Internal Standards						
1) Pentafluorobenzene	8.224	168	181074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	344514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	327446	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133345	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	128987	49.124	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.240%		
35) Dibromofluoromethane	8.165	113	101731	63.624	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	127.240%#		
50) Toluene-d8	10.565	98	437021	51.141	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.280%		
62) 4-Bromofluorobenzene	12.847	95	152963	49.075	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.160%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	980	0.314	ug/l	99
5) Bromomethane	2.971	94	342	0.255	ug/l #	3
16) Acetone	4.430	43	25986	23.453	ug/l	98
18) Methyl Acetate	5.024	43	1573	0.499	ug/l #	86
20) Methylene Chloride	5.277	84	3771	1.553	ug/l	88
25) 2-Butanone	7.483	43	4642	2.840	ug/l	97
29) Tetrahydrofuran	7.835	42	472	0.432	ug/l #	32
31) Cyclohexane	8.224	56	3824	0.899	ug/l #	11
36) 1,1-Dichloropropene	8.224	75	14936	4.677	ug/l #	50
38) Carbon Tetrachloride	8.218	117	18252	6.001	ug/l #	17
43) Isopropyl Acetate	8.688	43	26104	2.511	ug/l #	88
45) 1,2-Dichloropropane	9.735	63	925	0.369	ug/l #	43
48) Methyl methacrylate	9.741	41	71274	24.139	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	3787	1.100	ug/l	97
54) cis-1,3-Dichloropropene	10.353	75	35765	8.463	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3339	0.819	ug/l #	43
59) 2-Hexanone	11.200	43	57036	22.334	ug/l #	43
71) Bromoform	12.841	173	562	0.310	ug/l #	1
74) N-amyl acetate	12.459	43	2380	0.438	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	76552	24.327	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	76552	58.425	ug/l #	10

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

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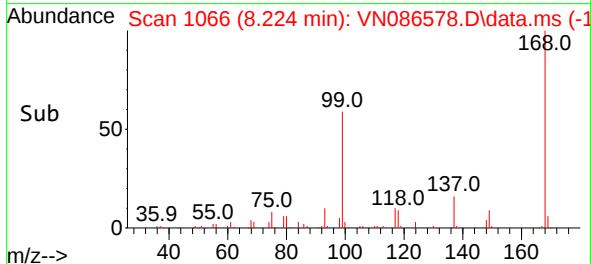
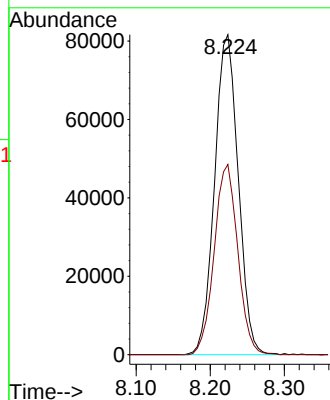
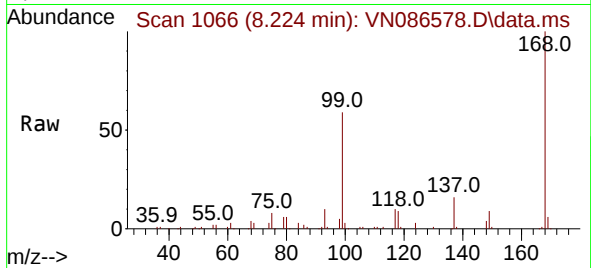




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

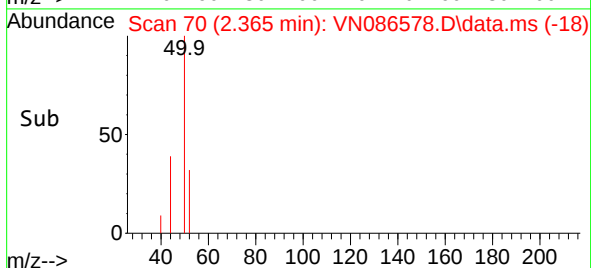
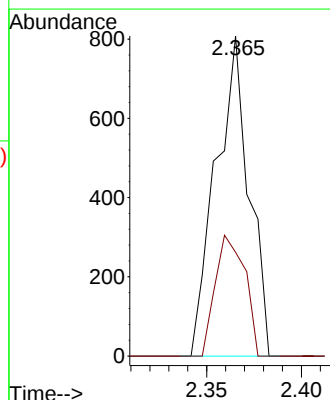
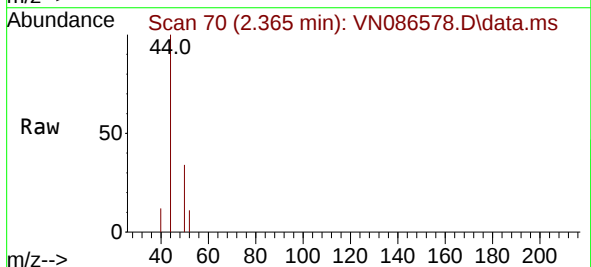
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

Tgt Ion:168 Resp: 181074
Ion Ratio Lower Upper
168 100
99 59.5 52.5 78.7



#3
Chloromethane
Concen: 0.314 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 50 Resp: 980
Ion Ratio Lower Upper
50 100
52 32.4 26.5 39.7

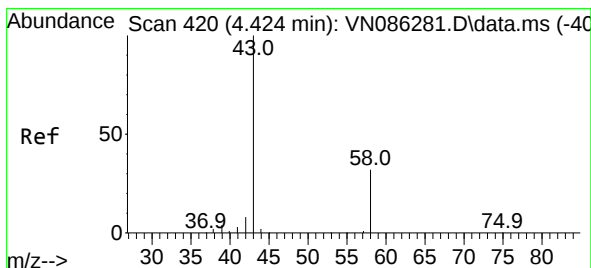
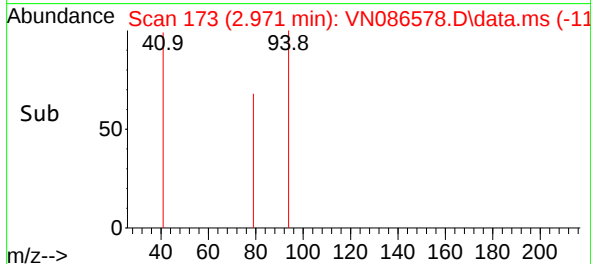
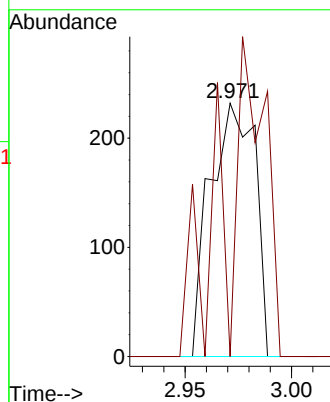
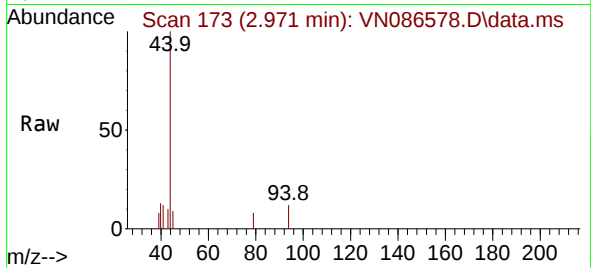




#5
Bromomethane
Concen: 0.255 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

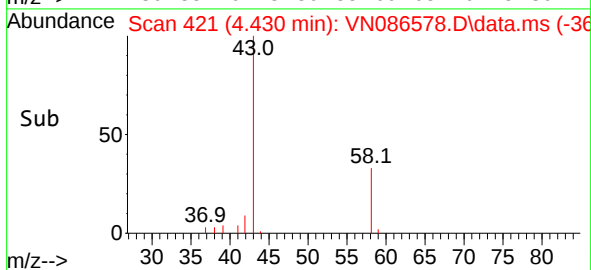
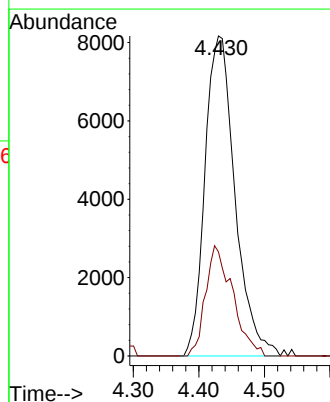
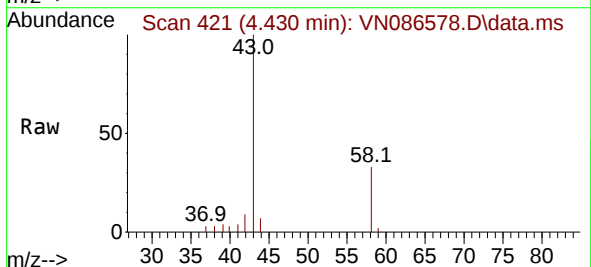
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

Tgt Ion: 94 Resp: 342
Ion Ratio Lower Upper
94 100
96 0.0 75.2 112.8#



#16
Acetone
Concen: 23.453 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

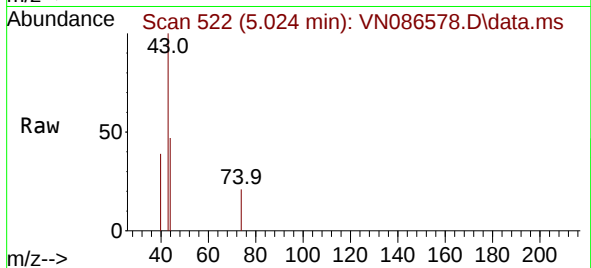
Tgt Ion: 43 Resp: 25986
Ion Ratio Lower Upper
43 100
58 32.5 25.3 37.9



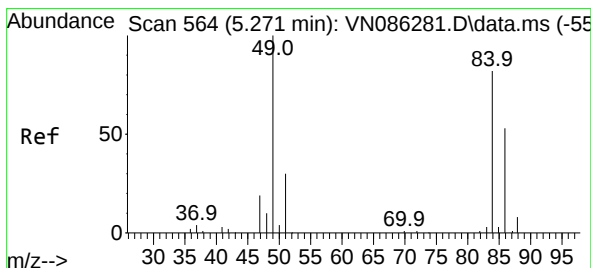
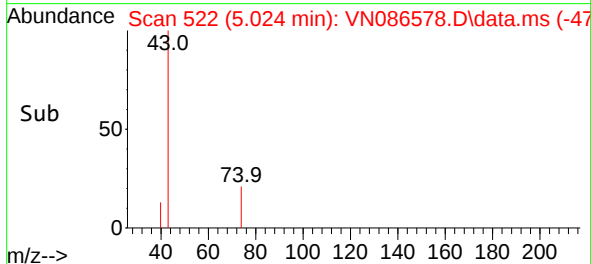
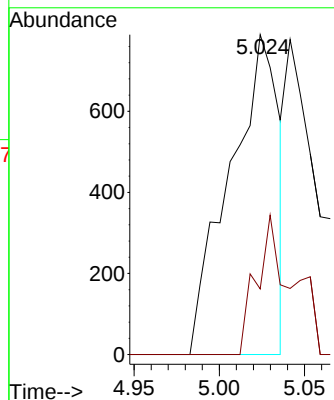


#18
Methyl Acetate
Concen: 0.499 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

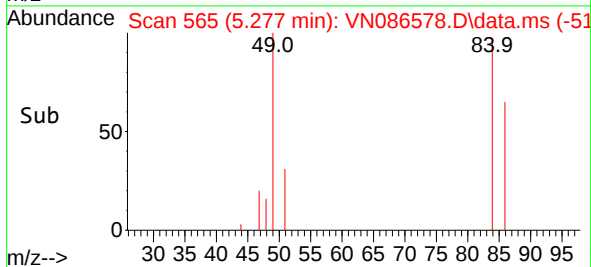
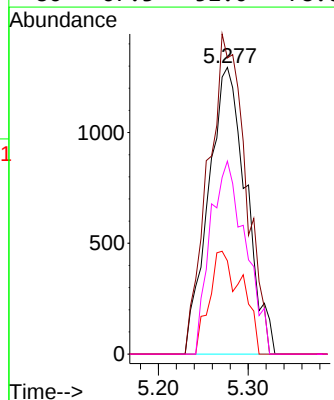
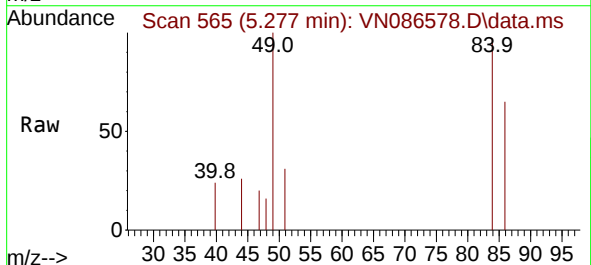


Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
74 31.7 19.8 29.6#



#20
Methylene Chloride
Concen: 1.553 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 84 Resp: 3771
Ion Ratio Lower Upper
84 100
49 103.3 98.2 147.2
51 32.5 29.8 44.6
86 67.3 52.0 78.0

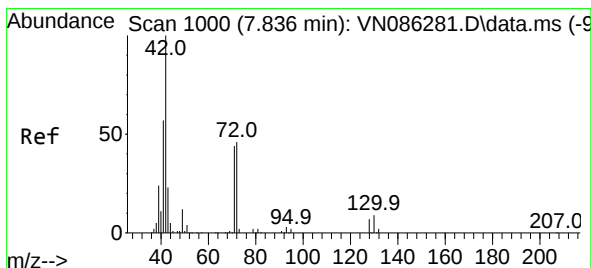
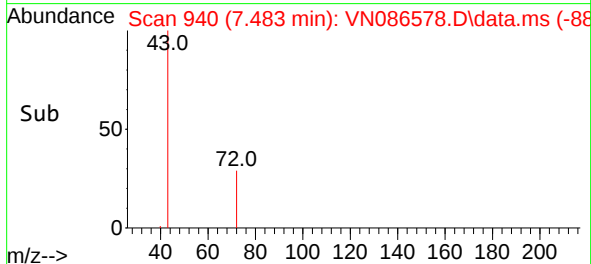
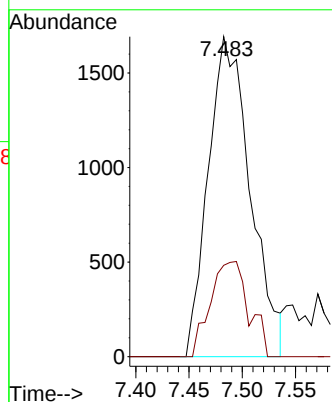
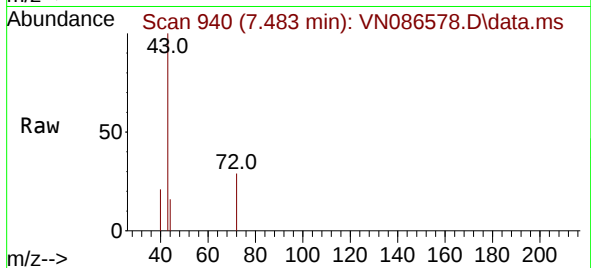




#25
2-Butanone
Concen: 2.840 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

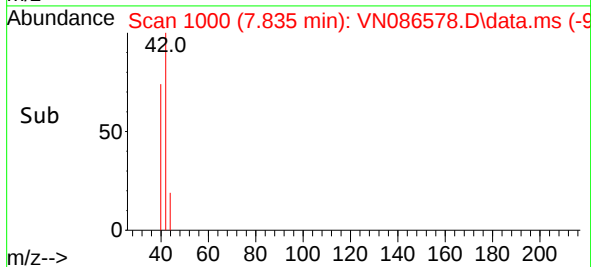
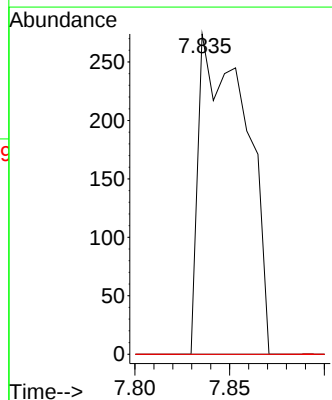
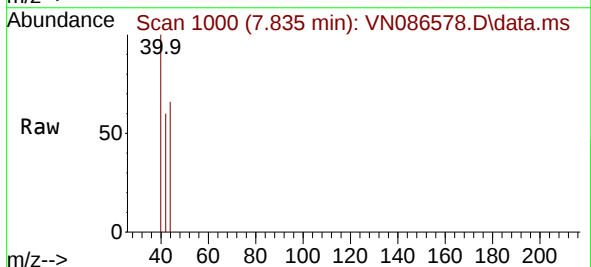
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

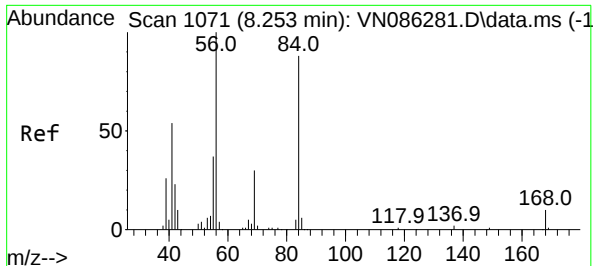
Tgt Ion: 43 Resp: 4642
Ion Ratio Lower Upper
43 100
72 28.5 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.432 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

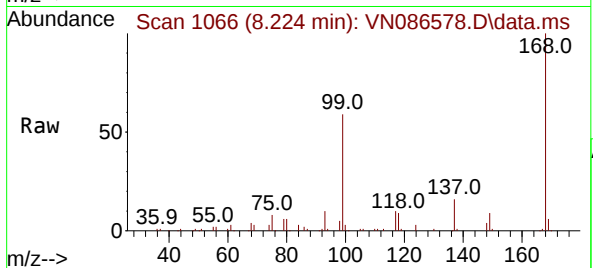
Tgt Ion: 42 Resp: 472
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#



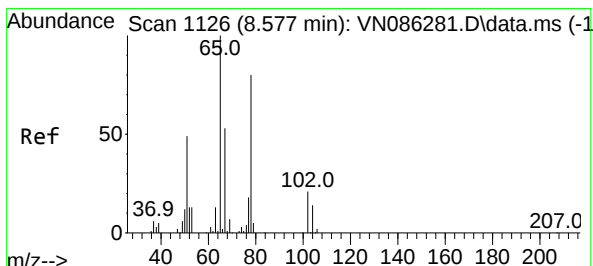
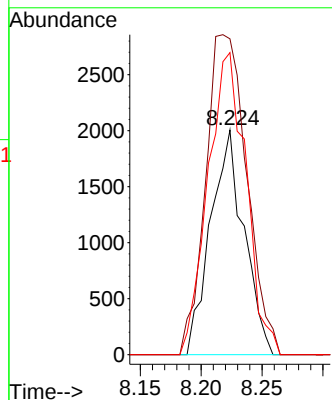
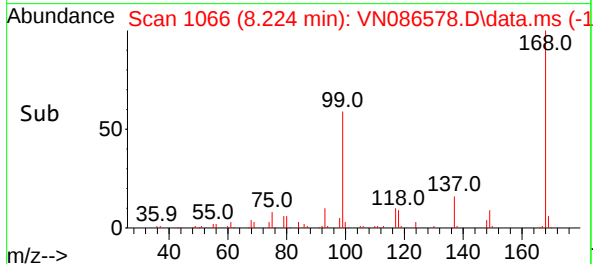


#31
Cyclohexane
Concen: 0.899 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

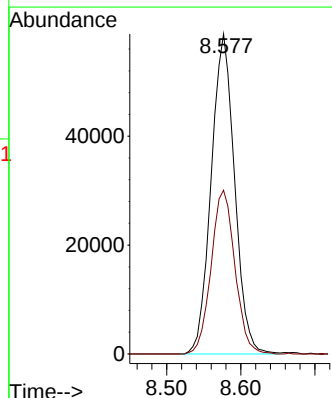
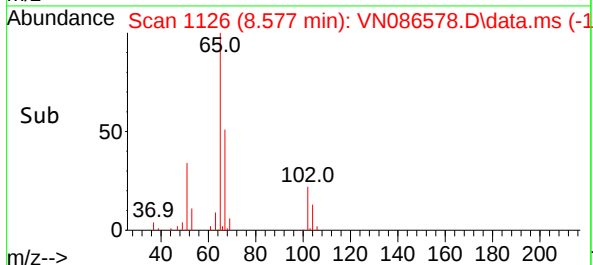
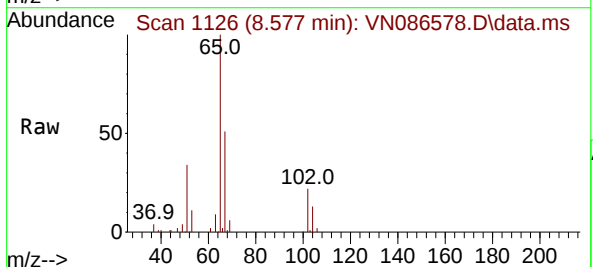


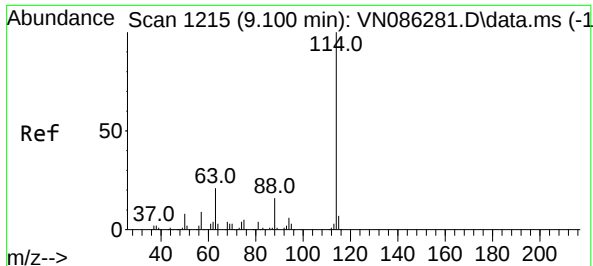
Tgt Ion: 56 Resp: 3824
Ion Ratio Lower Upper
56 100
69 140.6 24.2 36.2#
84 134.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 49.124 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 65 Resp: 128987
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.0

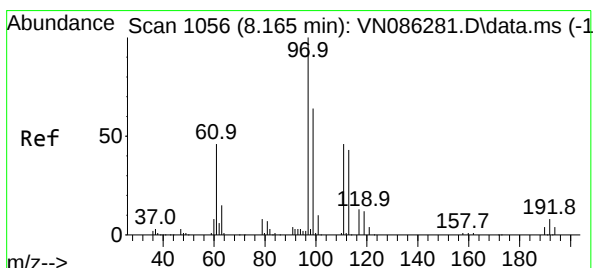
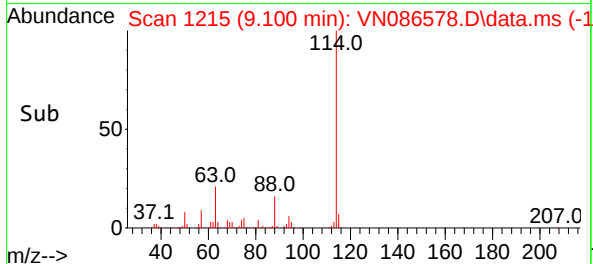
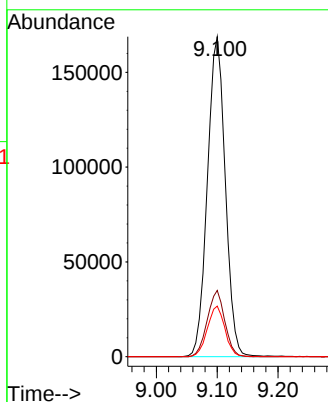
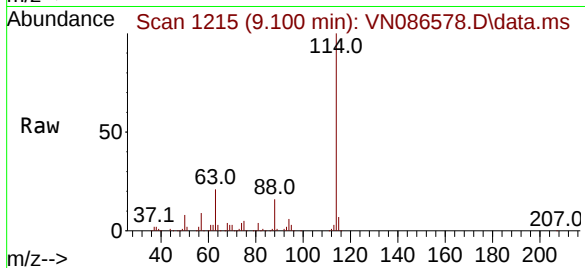




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

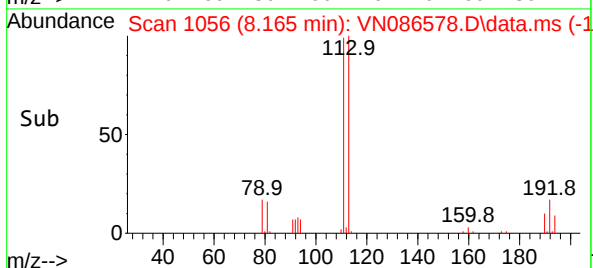
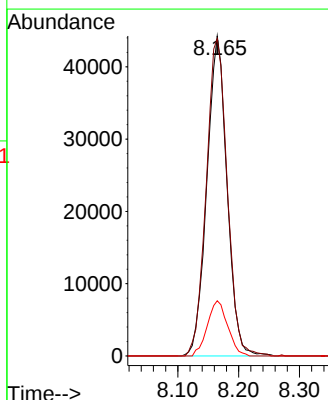
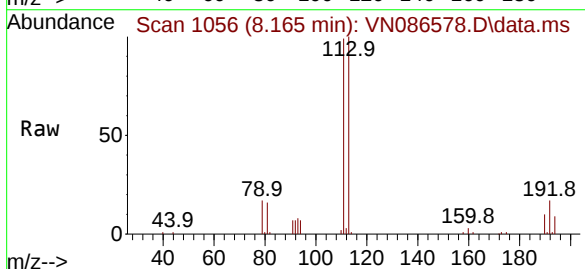
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MSVOA_N
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PB167932ZHE#03

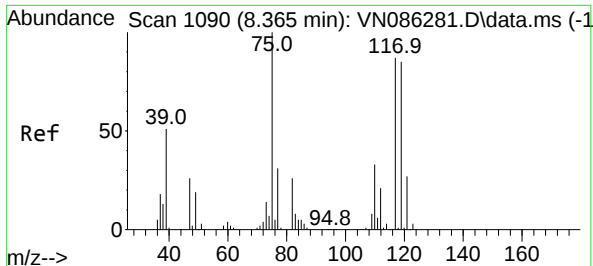
Tgt Ion:114 Resp: 344514
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.6
88 15.8 0.0 31.8



#35
Dibromofluoromethane
Concen: 63.624 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion:113 Resp: 101731
Ion Ratio Lower Upper
113 100
111 103.3 83.4 125.0
192 17.4 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.677 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#03

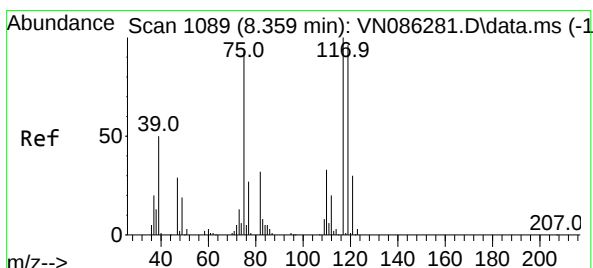
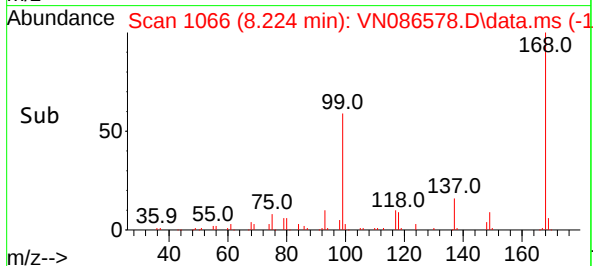
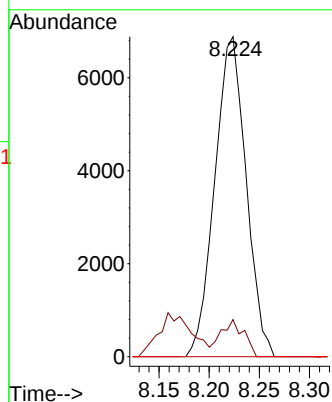
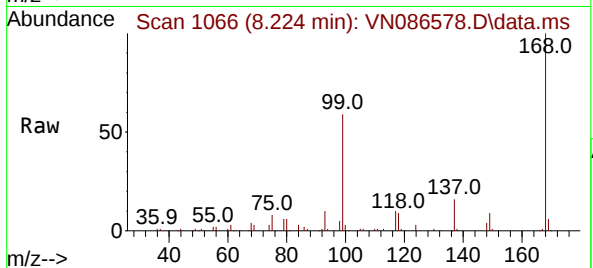
Tgt Ion: 75 Resp: 14936

Ion Ratio Lower Upper

75 100

110 8.5 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.001 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

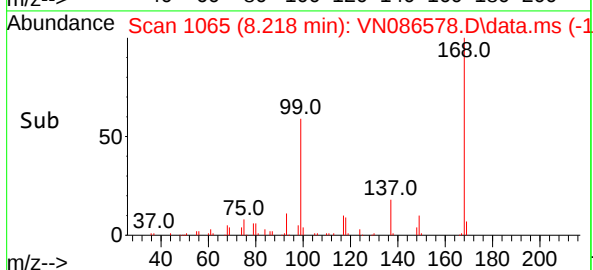
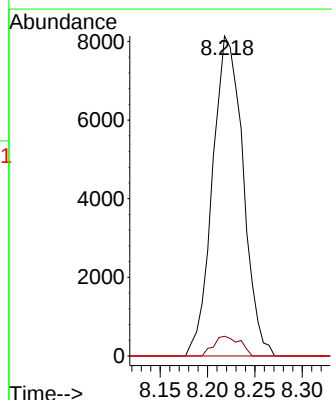
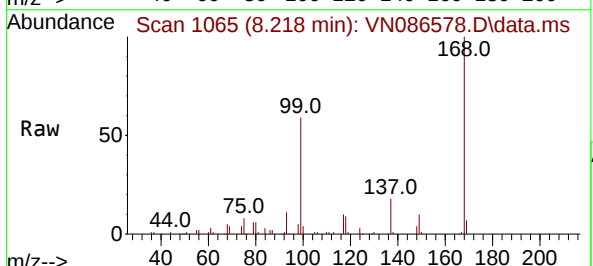
Tgt Ion: 117 Resp: 18252

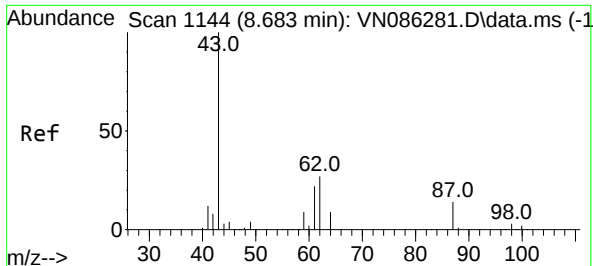
Ion Ratio Lower Upper

117 100

119 6.2 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 2.511 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#03

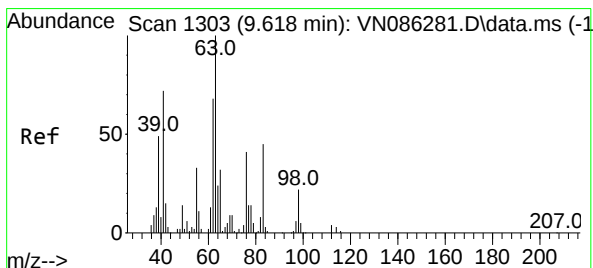
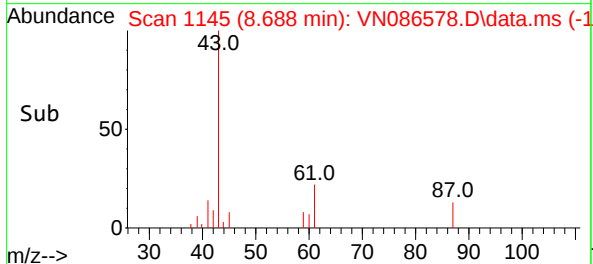
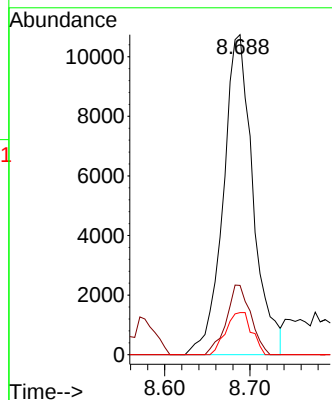
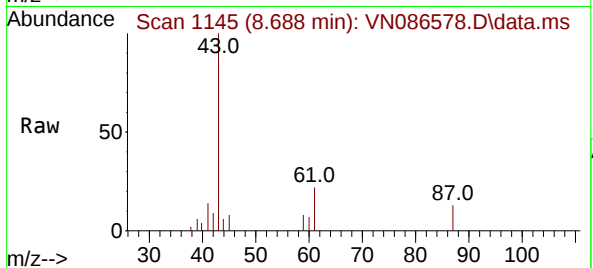
Tgt Ion: 43 Resp: 26104

Ion Ratio Lower Upper

43 100

61 17.8 20.5 30.7#

87 11.4 10.5 15.7



#45

1,2-Dichloropropane

Concen: 0.369 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086578.D

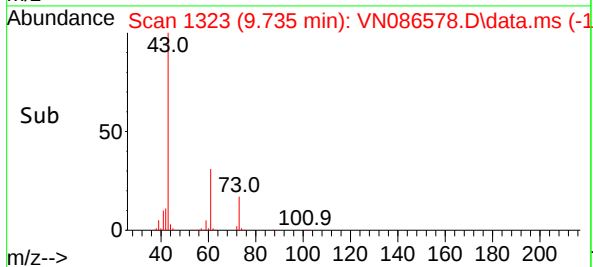
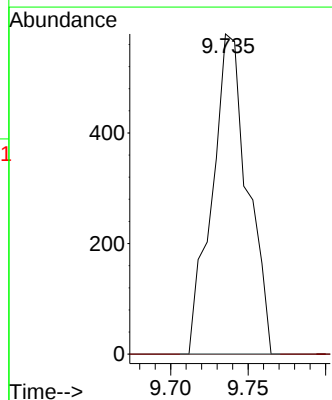
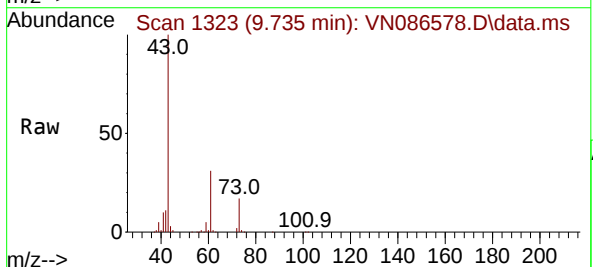
Acq: 12 May 2025 14:04

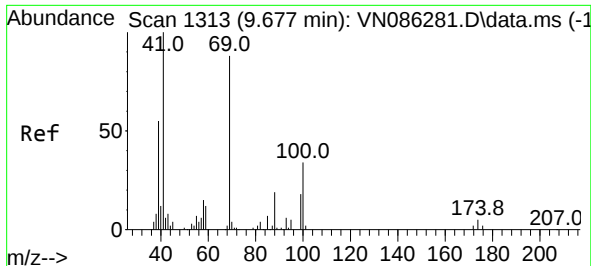
Tgt Ion: 63 Resp: 925

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

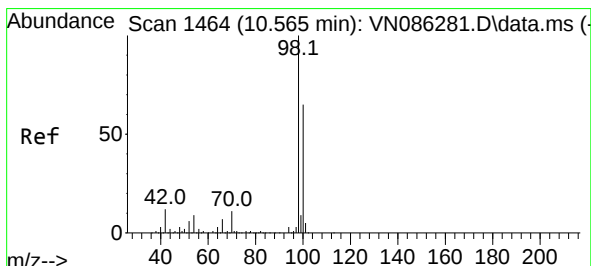
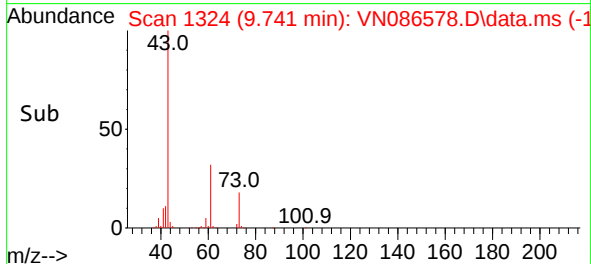
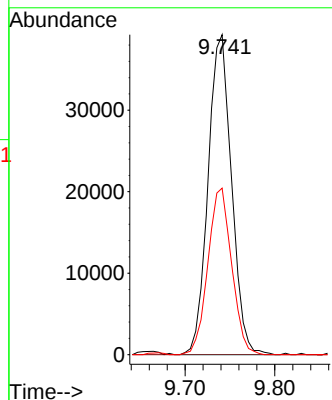
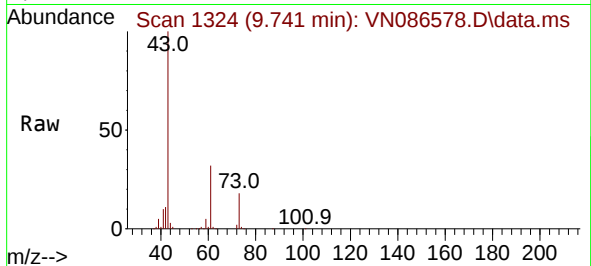




#48
Methyl methacrylate
Concen: 24.139 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

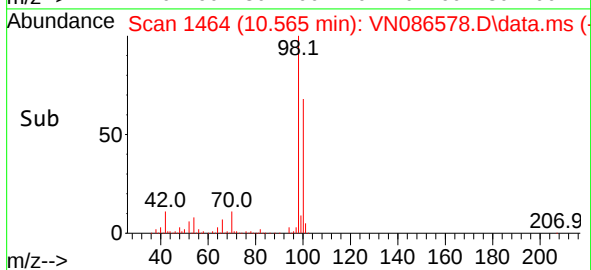
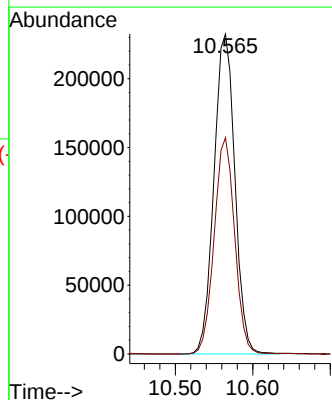
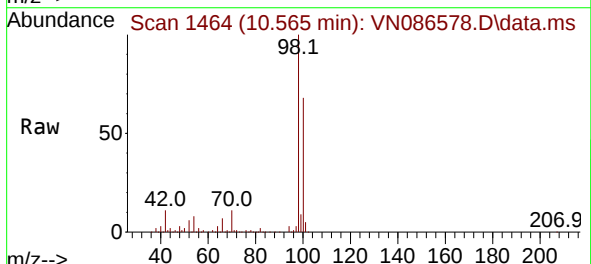
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

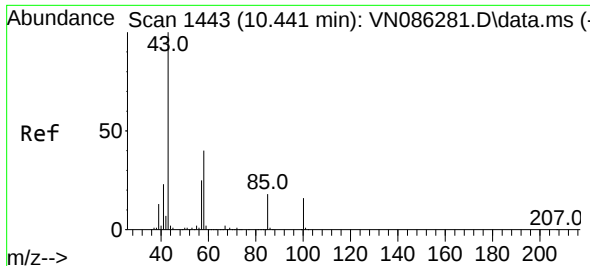
Tgt Ion: 41 Resp: 71274
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.7 45.2 67.8



#50
Toluene-d8
Concen: 51.141 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 98 Resp: 437021
Ion Ratio Lower Upper
98 100
100 66.1 52.5 78.7

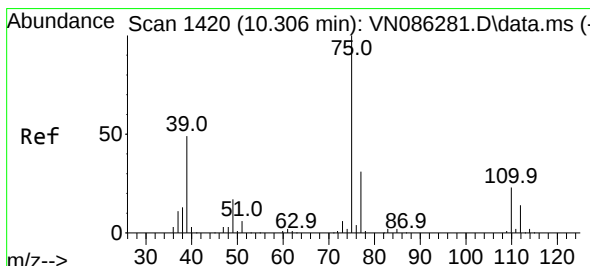
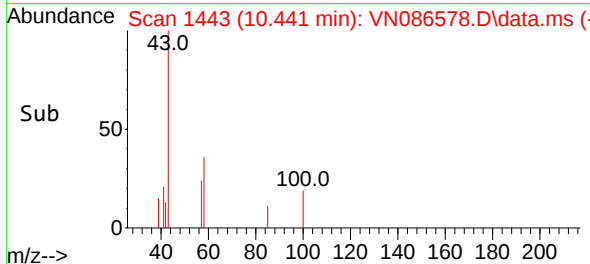
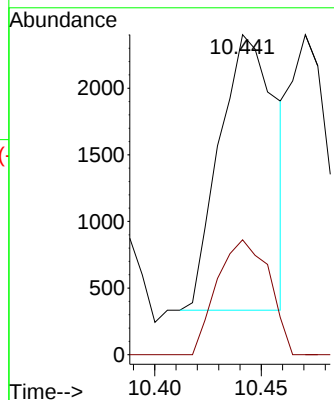
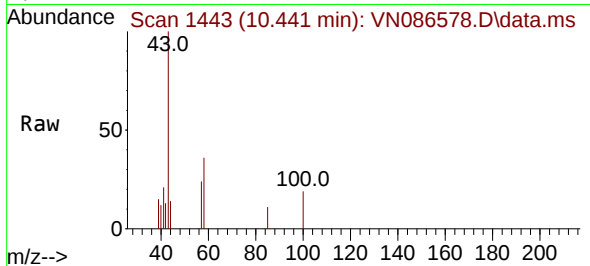




#51
4-Methyl-2-Pentanone
Concen: 1.100 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

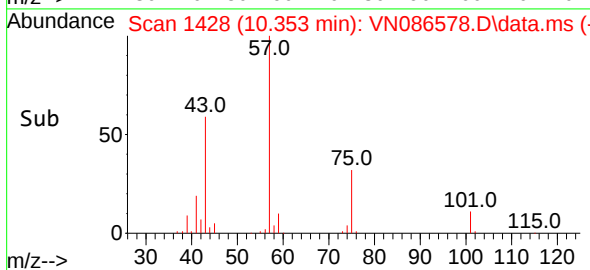
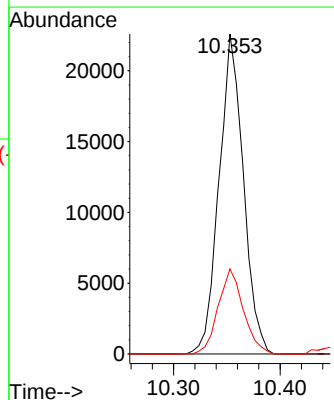
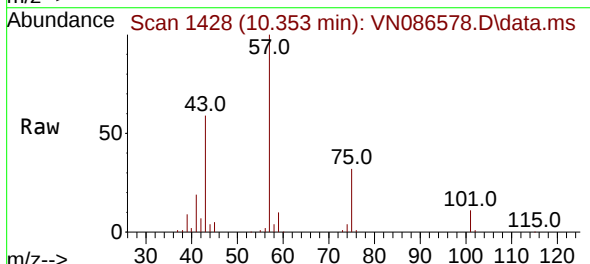
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

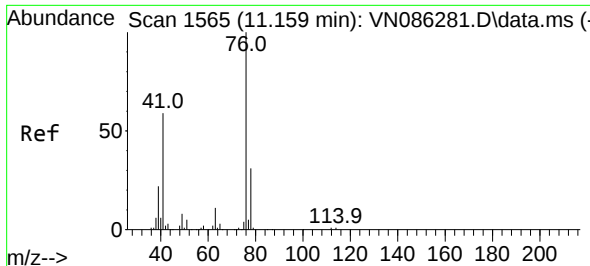
Tgt Ion: 43 Resp: 3787
Ion Ratio Lower Upper
43 100
58 38.7 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.463 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 75 Resp: 35765
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 26.6 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.819 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

Instrument :

MSVOA_N

ClientSampleId :

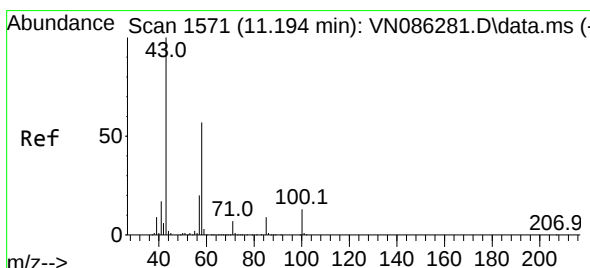
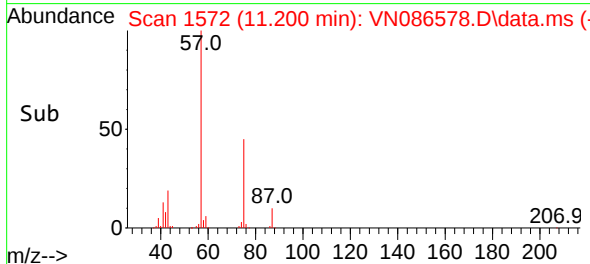
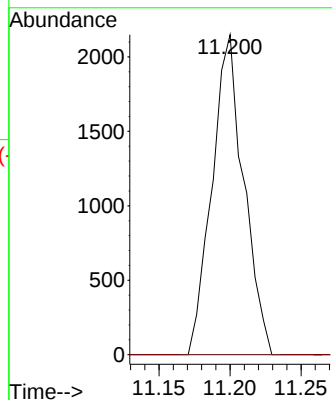
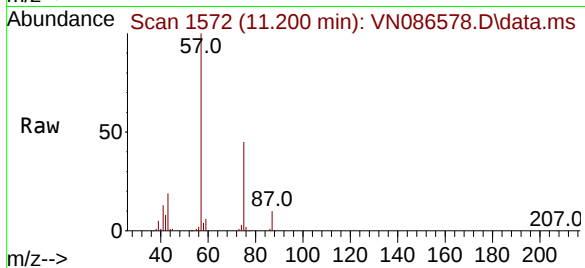
PB167932ZHE#03

Tgt Ion: 76 Resp: 3339

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.334 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086578.D

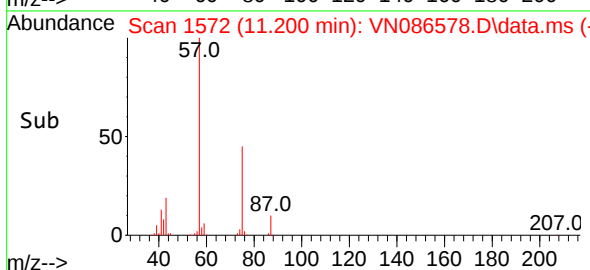
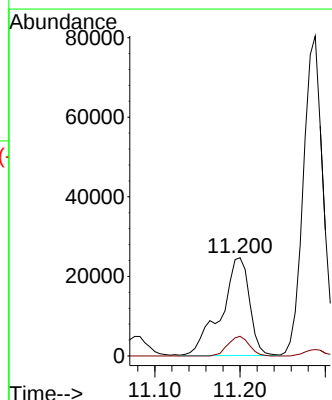
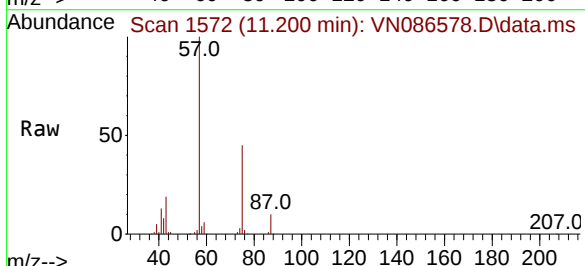
Acq: 12 May 2025 14:04

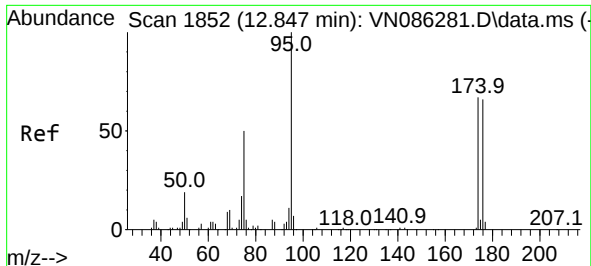
Tgt Ion: 43 Resp: 57036

Ion Ratio Lower Upper

43 100

58 15.0 28.3 85.0#

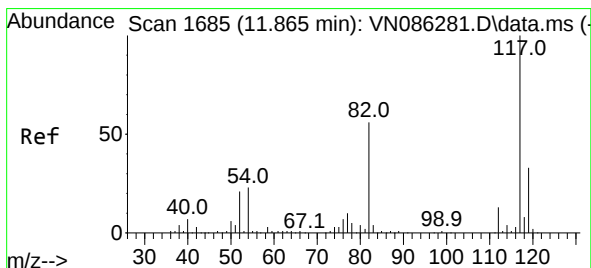
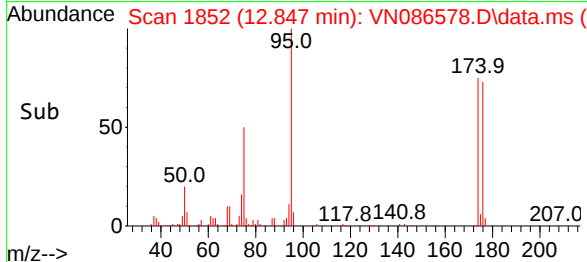
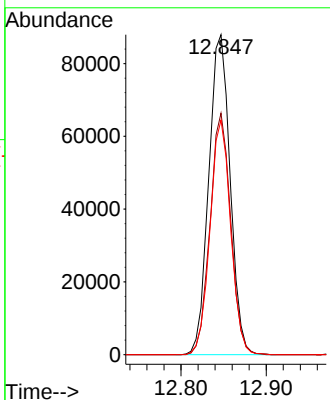
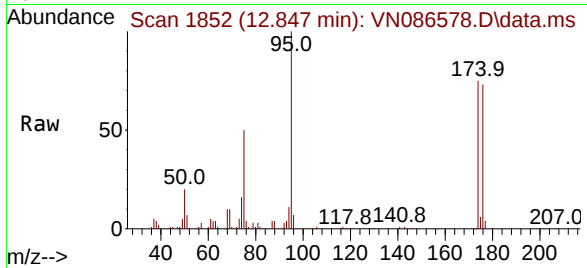




#62
4-Bromofluorobenzene
Concen: 49.075 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

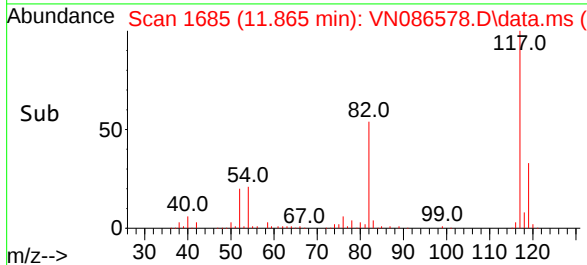
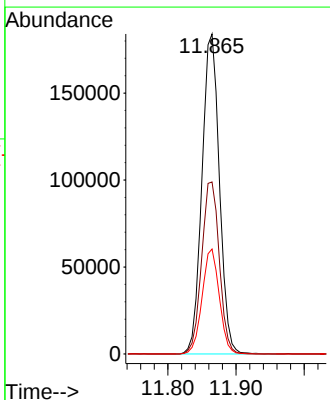
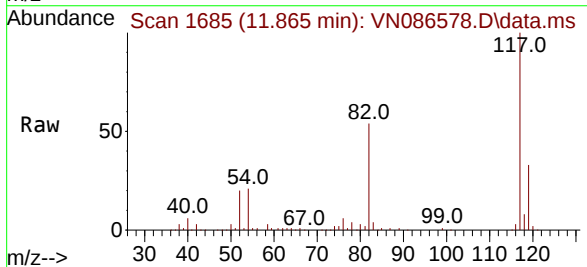
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

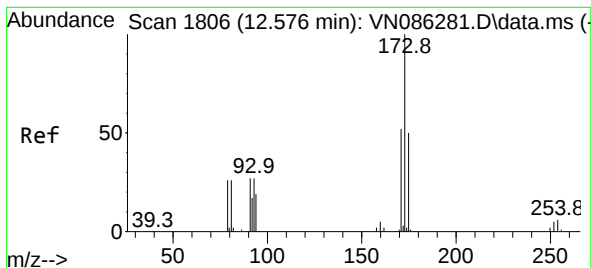
Tgt Ion: 95 Resp: 152963
Ion Ratio Lower Upper
95 100
174 73.1 0.0 133.4
176 70.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Tgt Ion: 117 Resp: 327446
Ion Ratio Lower Upper
117 100
82 53.7 44.7 67.1
119 32.8 26.4 39.6





#71

Bromoform

Concen: 0.310 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#03

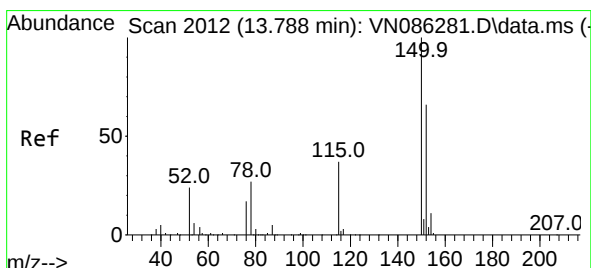
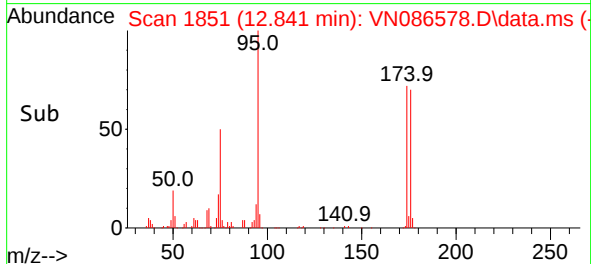
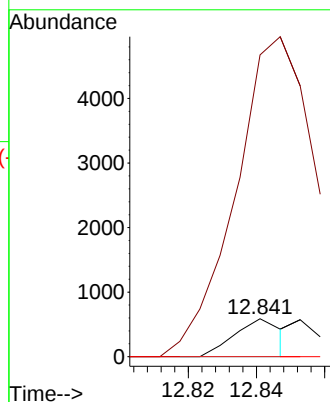
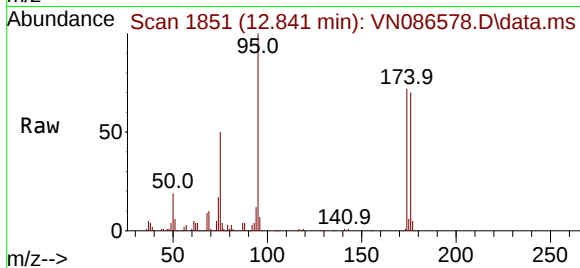
Tgt Ion:173 Resp: 562

Ion Ratio Lower Upper

173 100

175 1203.0 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# 2012

Delta R.T. -0.000 min

Lab File: VN086578.D

Acq: 12 May 2025 14:04

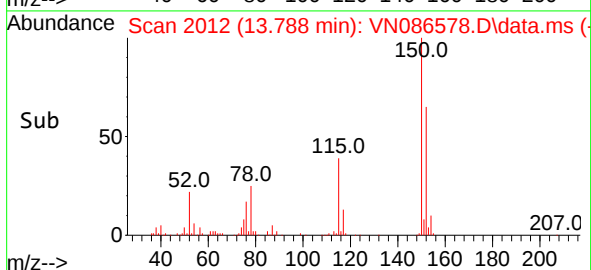
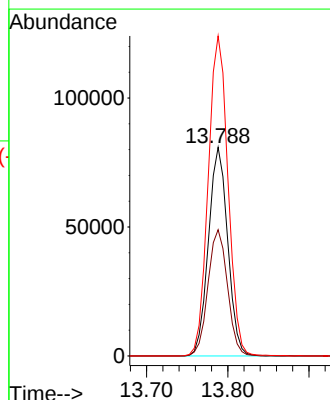
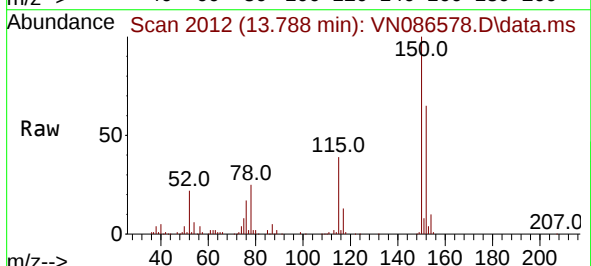
Tgt Ion:152 Resp: 133345

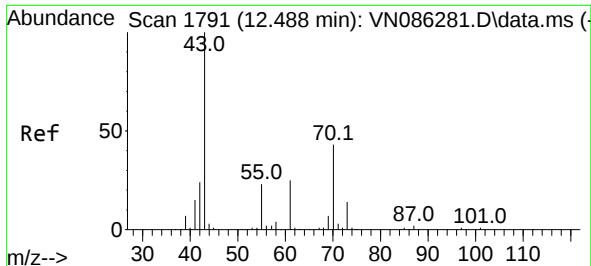
Ion Ratio Lower Upper

152 100

115 61.1 31.9 95.9

150 157.5 0.0 352.0

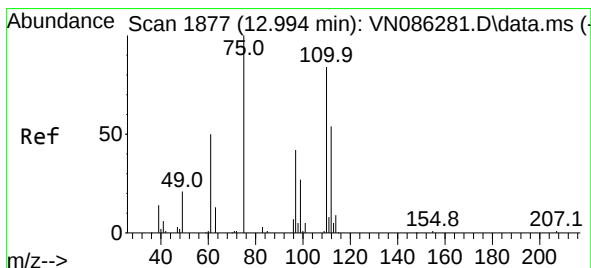
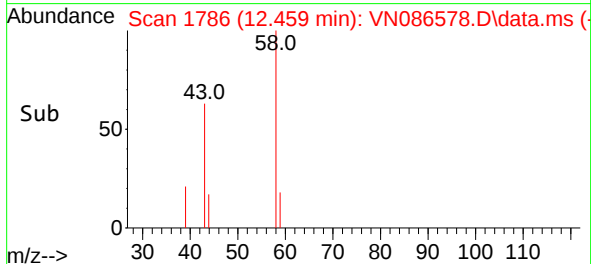
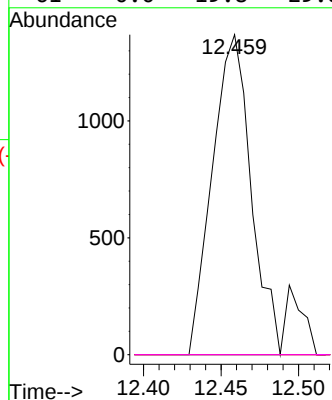
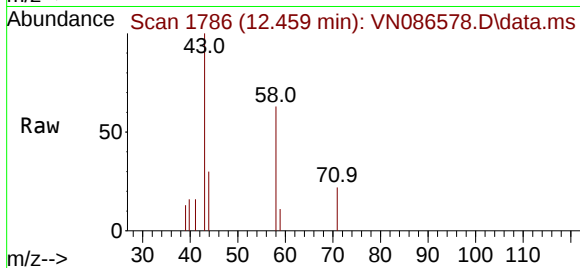




#74
N-amy1 acetate
Concen: 0.438 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

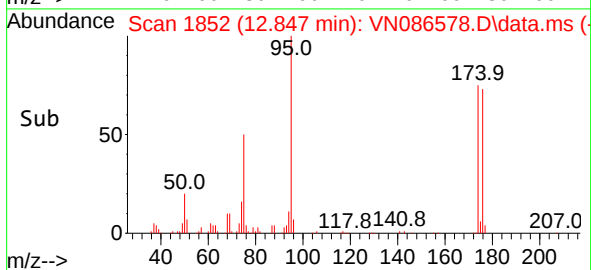
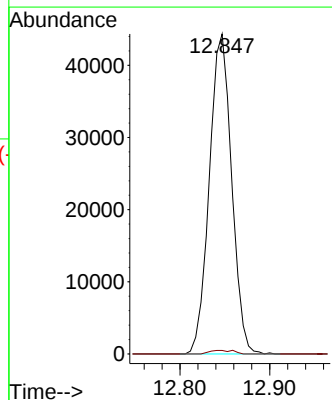
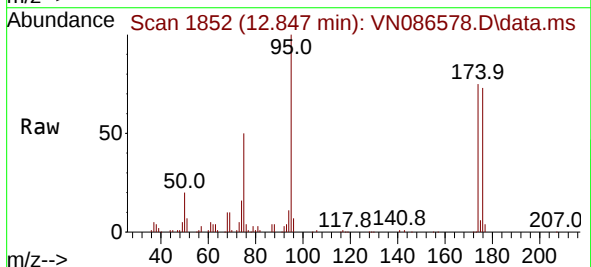
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03

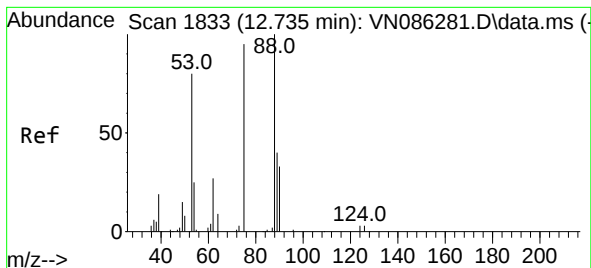
Tgt Ion: 43	Resp: 2380
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 0.0	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.327 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

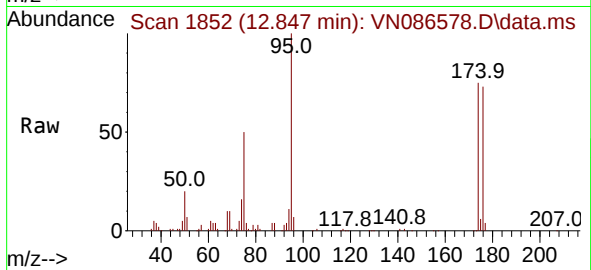
Tgt Ion: 75	Resp: 76552
Ion Ratio	Lower Upper
75 100	
77 1.2	98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 58.425 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086578.D
Acq: 12 May 2025 14:04

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#03



Tgt Ion: 75 Resp: 76552
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

