

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
 Data File : VN087079.D
 Acq On : 18 Jun 2025 12:51
 Operator : JC\MD
 Sample : PB168515TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168515TB

Quant Time: Jun 19 01:26:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

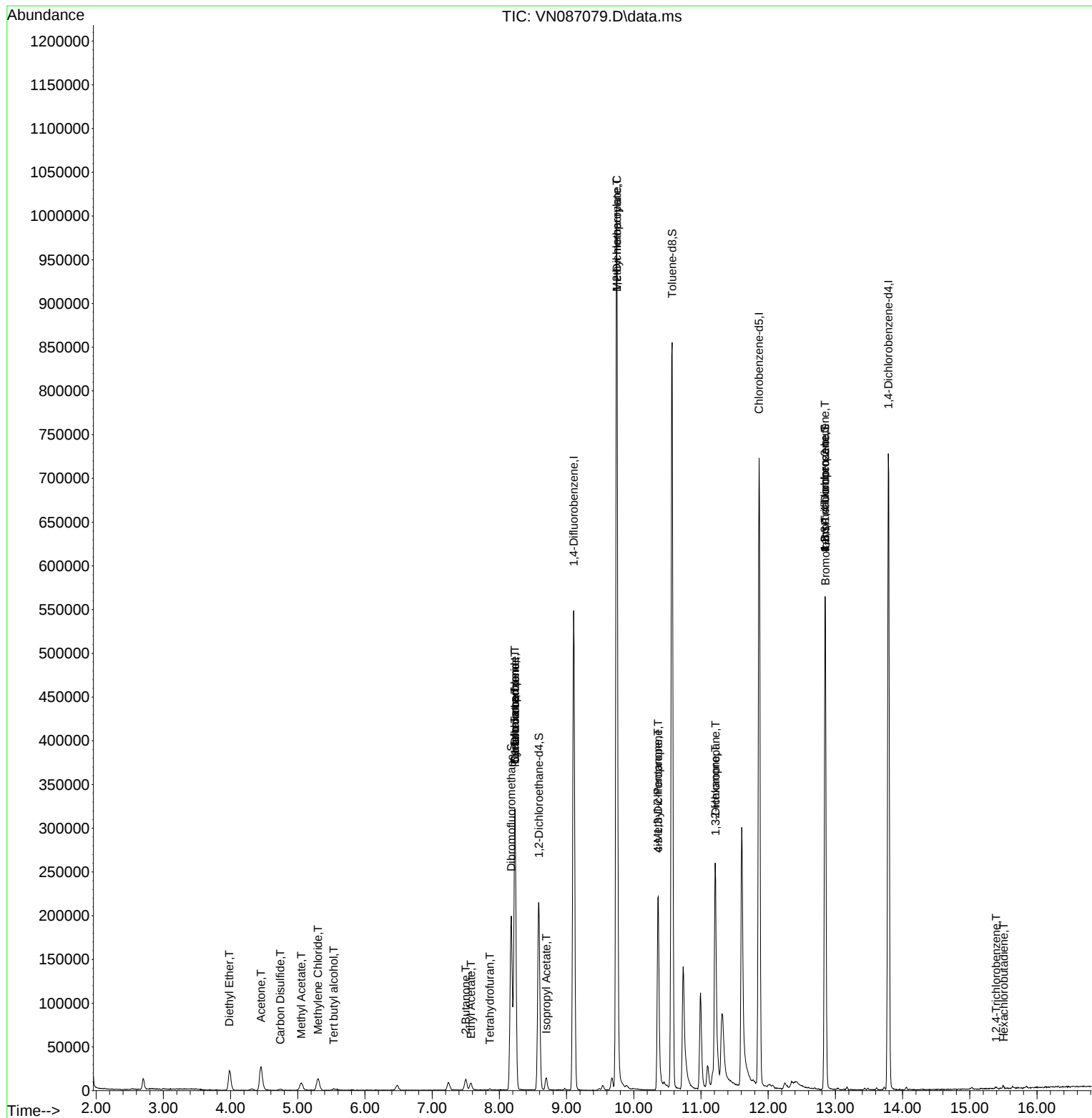
Internal Standards						
1) Pentafluorobenzene	8.235	168	257502	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	511649	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	457809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	222222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	177076	51.361	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.720%			
35) Dibromofluoromethane	8.177	113	153742	50.704	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.570	98	628194	52.334	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.660%			
62) 4-Bromofluorobenzene	12.847	95	224931	50.437	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.880%			
Target Compounds						Qvalue
8) Diethyl Ether	3.983	74	14983	7.696	ug/l	96
11) Tert butyl alcohol	5.536	59	3751	4.010	ug/l #	73
16) Acetone	4.453	43	53823	29.438	ug/l	96
17) Carbon Disulfide	4.741	76	1806	0.228	ug/l #	75
18) Methyl Acetate	5.053	43	19110	3.587	ug/l	98
20) Methylene Chloride	5.300	84	12155	3.551	ug/l	93
25) 2-Butanone	7.500	43	20902	7.033	ug/l	95
29) Tetrahydrofuran	7.859	42	1138	0.588	ug/l #	53
31) Cyclohexane	8.229	56	4586	0.820	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	19075	4.222	ug/l #	48
37) Ethyl Acetate	7.577	43	13313	2.315	ug/l	97
38) Carbon Tetrachloride	8.229	117	24675	5.563	ug/l #	15
43) Isopropyl Acetate	8.700	43	16587	1.797	ug/l	94
45) 1,2-Dichloropropane	9.747	63	1260	0.351	ug/l #	43
48) Methyl methacrylate	9.747	41	87658	20.631	ug/l #	34
51) 4-Methyl-2-Pentanone	10.359	43	88213	15.873	ug/l #	46
54) cis-1,3-Dichloropropene	10.365	75	54807	9.325	ug/l #	55
57) 1,3-Dichloropropane	11.218	76	3654	0.606	ug/l #	43
59) 2-Hexanone	11.212	43	41750	11.663	ug/l #	58
71) Bromoform	12.853	173	1023	0.425	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	104412	19.766	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	104412	45.501	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.394	180	902	0.201	ug/l #	81
94) Hexachlorobutadiene	15.505	225	786	0.471	ug/l	77

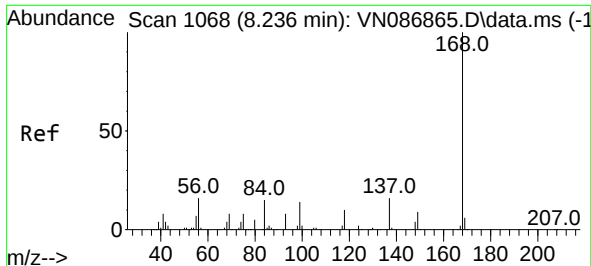
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

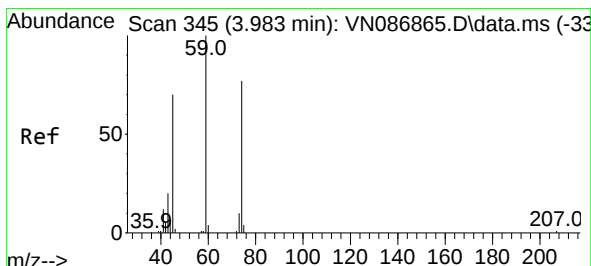
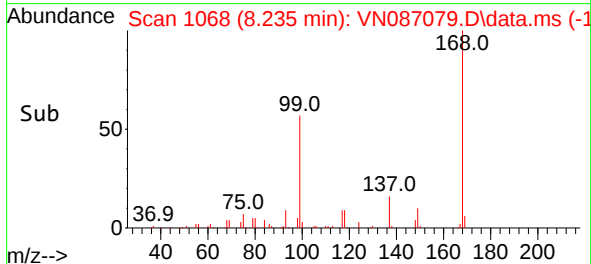
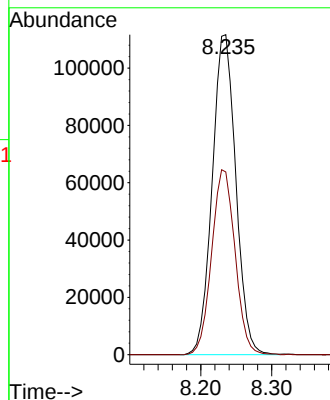
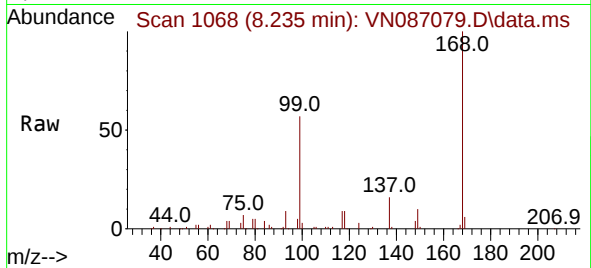




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

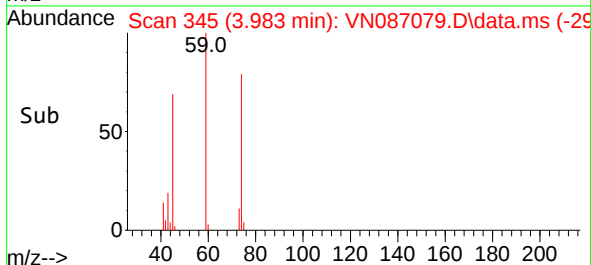
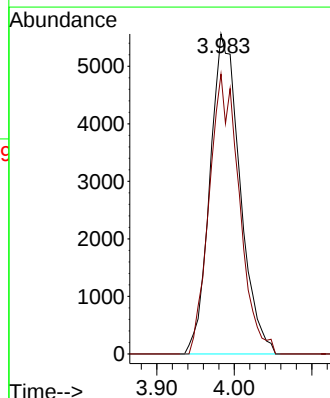
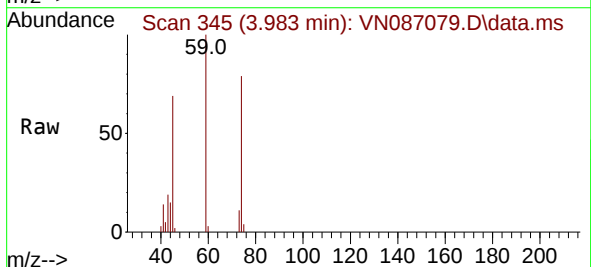
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

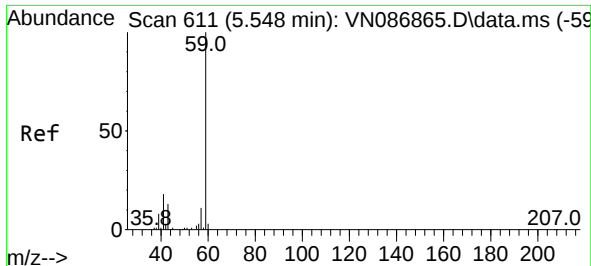
Tgt Ion:168 Resp: 257502
Ion Ratio Lower Upper
168 100
99 57.1 49.1 73.7



#8
Diethyl Ether
Concen: 7.696 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 74 Resp: 14983
Ion Ratio Lower Upper
74 100
45 87.5 45.5 136.5

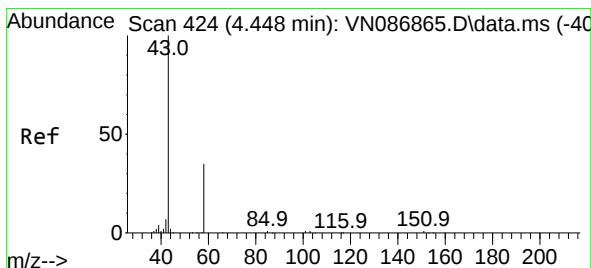
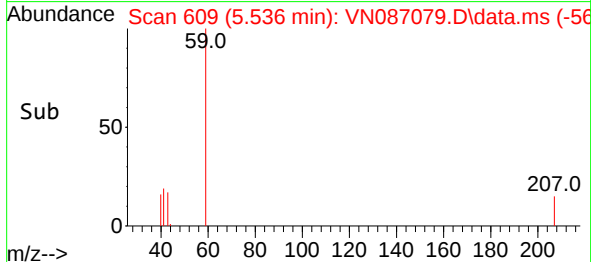
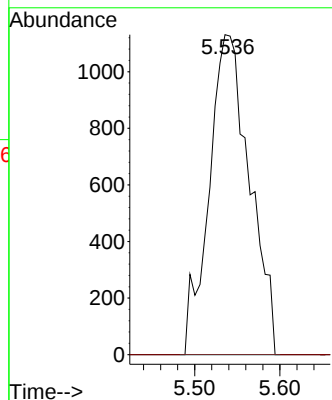
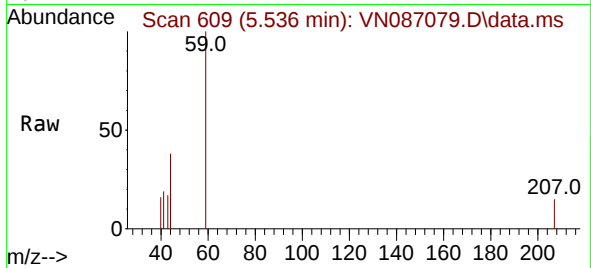




#11
Tert butyl alcohol
Concen: 4.010 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

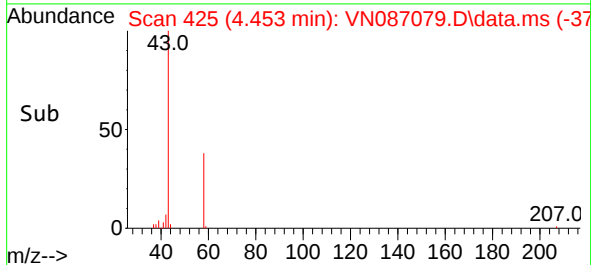
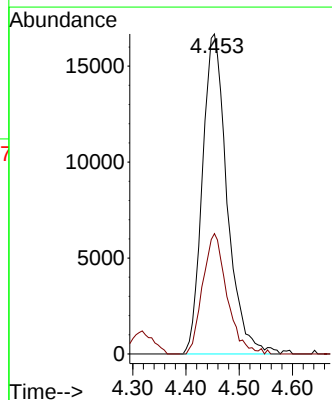
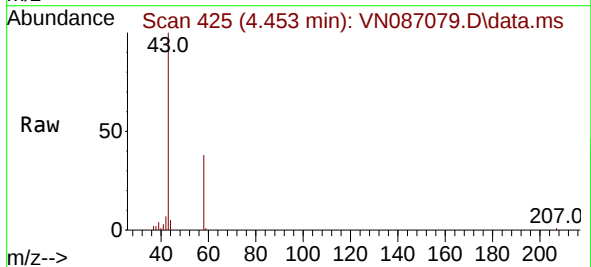
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

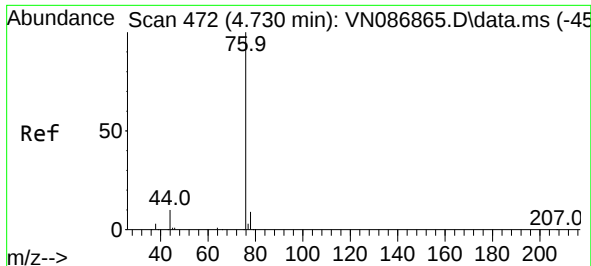
Tgt Ion: 59 Resp: 3751
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 29.438 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 43 Resp: 53823
Ion Ratio Lower Upper
43 100
58 37.6 28.0 42.0

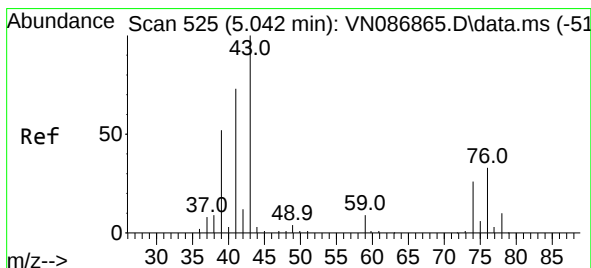
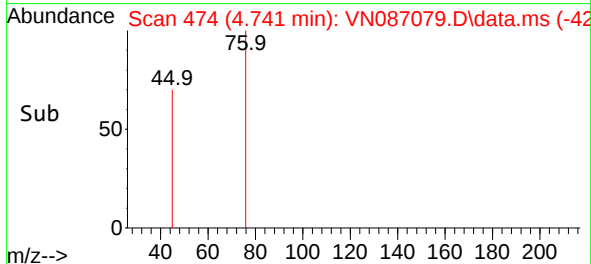
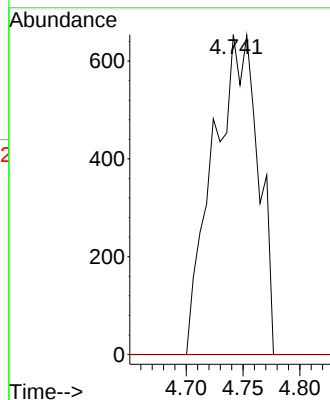
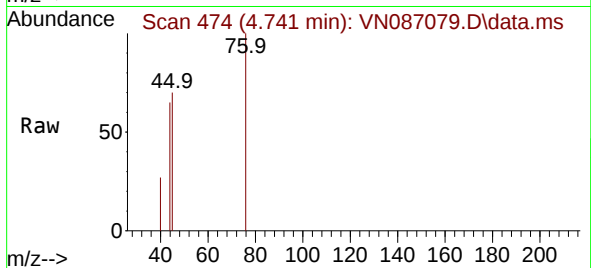




#17
Carbon Disulfide
Concen: 0.228 ug/l
RT: 4.741 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

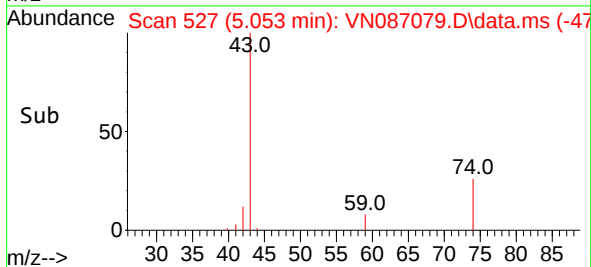
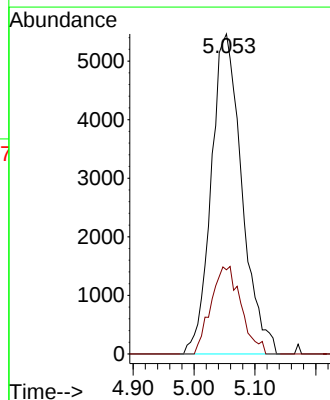
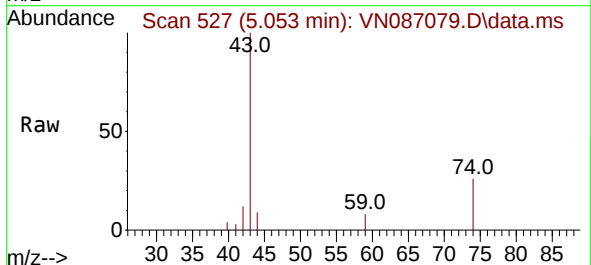
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

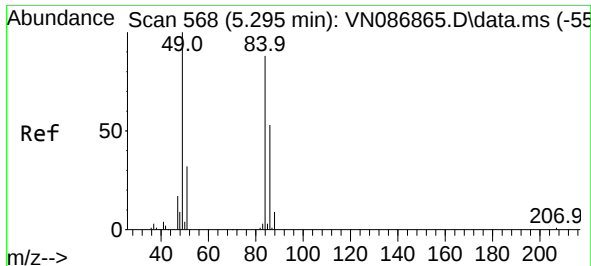
Tgt Ion: 76 Resp: 1806
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 3.587 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 43 Resp: 19110
Ion Ratio Lower Upper
43 100
74 26.9 20.7 31.1

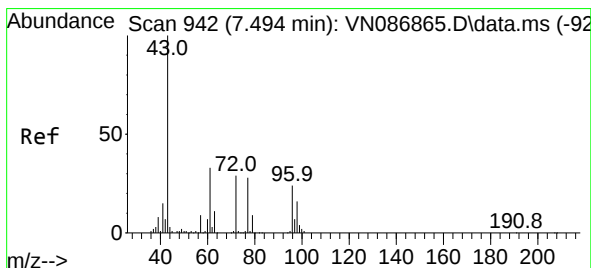
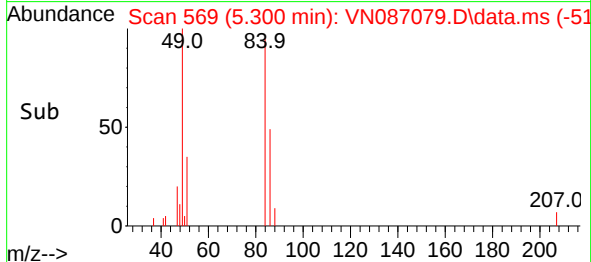
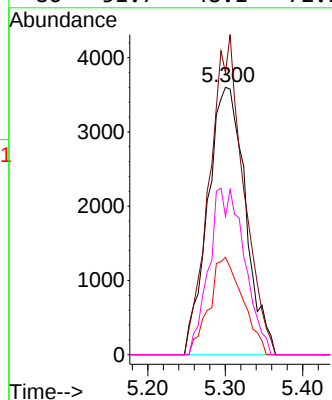
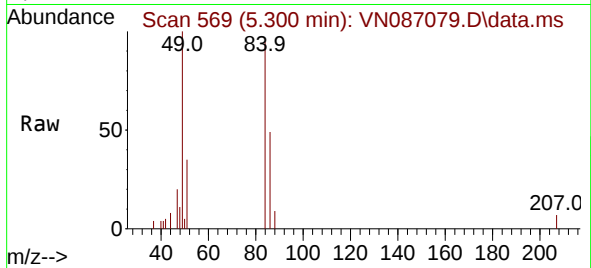




#20
Methylene Chloride
Concen: 3.551 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

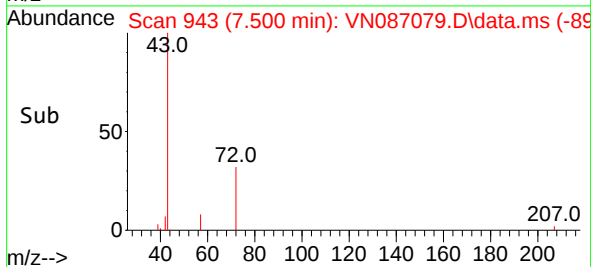
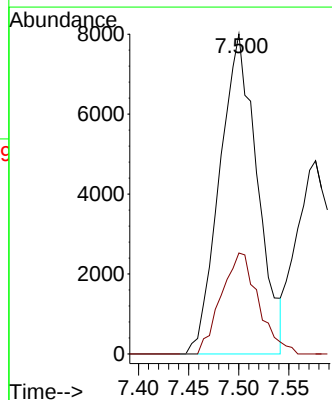
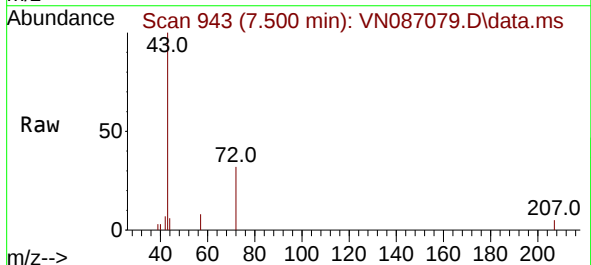
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

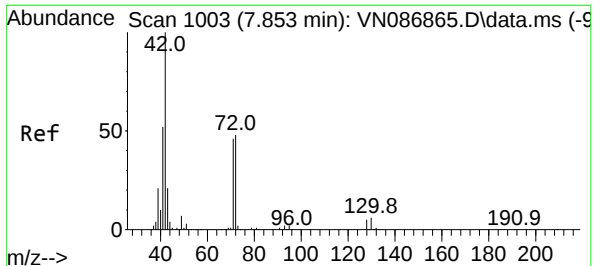
Tgt Ion:	84	Resp:	12155
Ion	Ratio	Lower	Upper
84	100		
49	105.4	90.5	135.7
51	36.4	28.5	42.7
86	51.7	48.1	72.1



#25
2-Butanone
Concen: 7.033 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion:	43	Resp:	20902
Ion	Ratio	Lower	Upper
43	100		
72	31.5	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.588 ug/l

RT: 7.859 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

PB168515TB

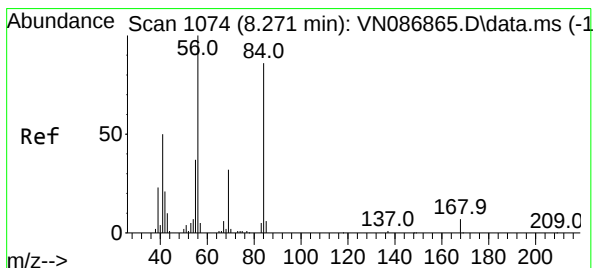
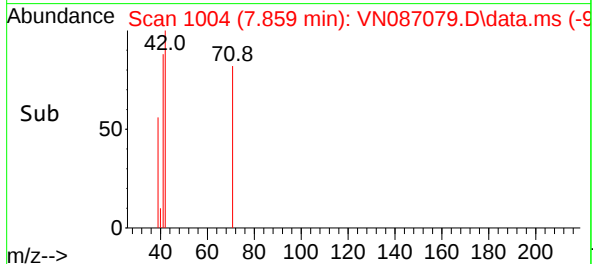
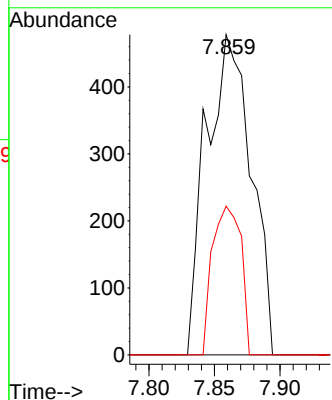
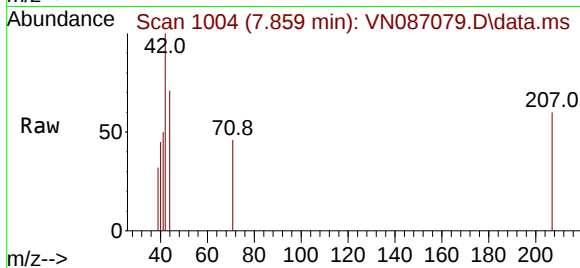
Tgt Ion: 42 Resp: 1138

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 29.5 35.6 53.4#



#31

Cyclohexane

Concen: 0.820 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

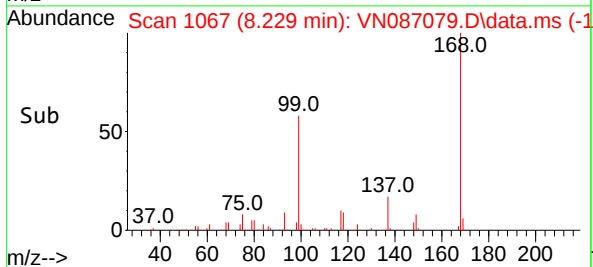
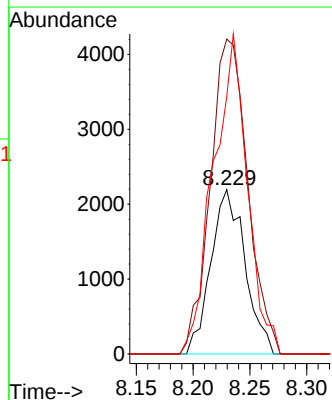
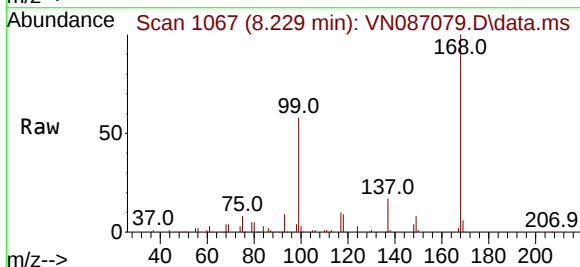
Tgt Ion: 56 Resp: 4586

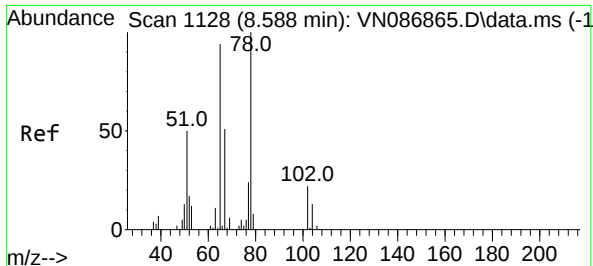
Ion Ratio Lower Upper

56 100

69 191.6 25.4 38.0#

84 156.7 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 51.361 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

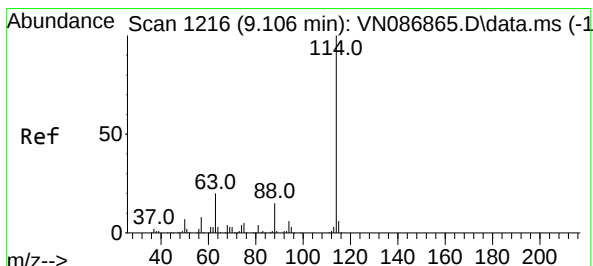
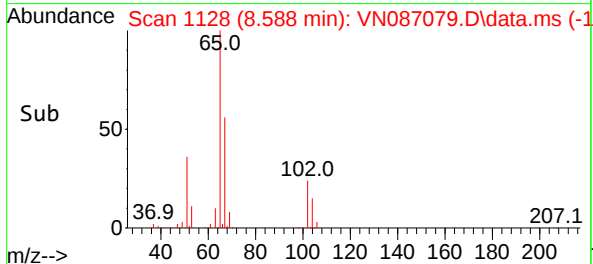
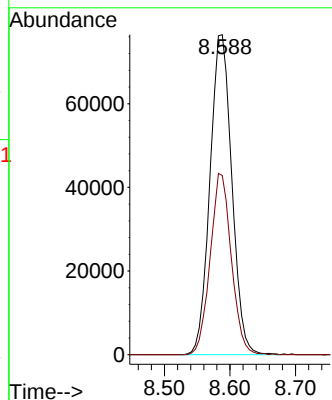
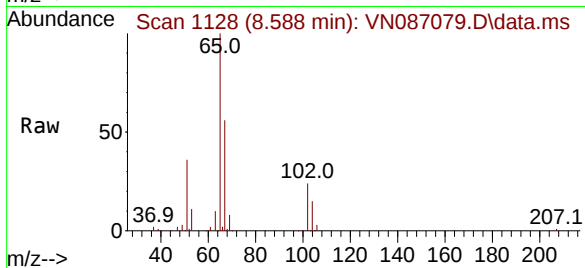
PB168515TB

Tgt Ion: 65 Resp: 177076

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

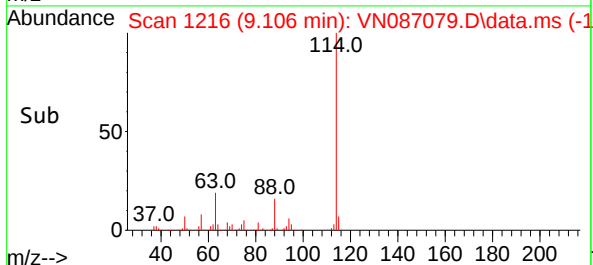
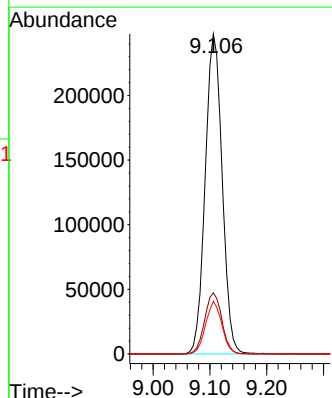
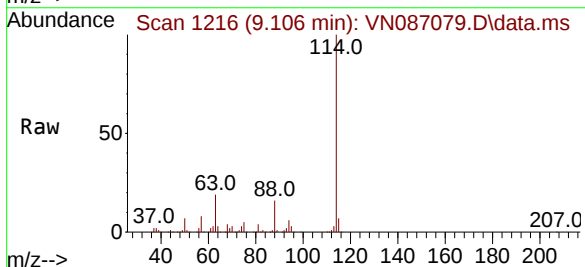
Tgt Ion: 114 Resp: 511649

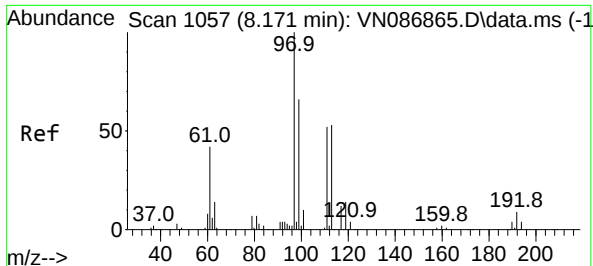
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.704 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

PB168515TB

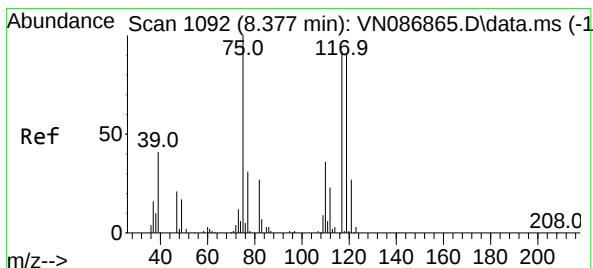
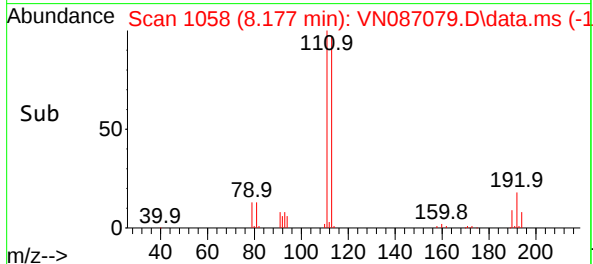
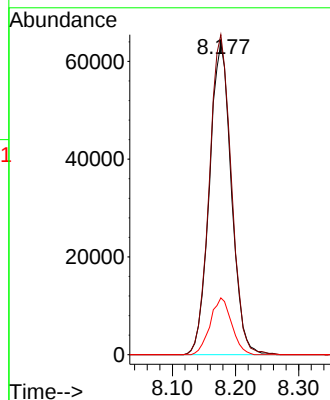
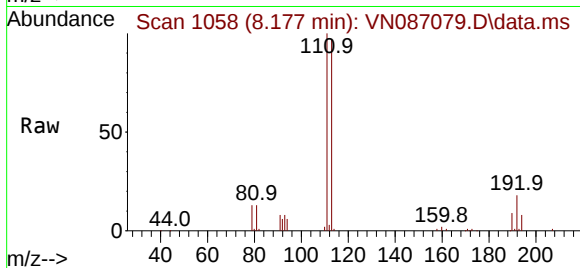
Tgt Ion:113 Resp: 153742

Ion Ratio Lower Upper

113 100

111 103.0 84.2 126.2

192 17.8 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.222 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

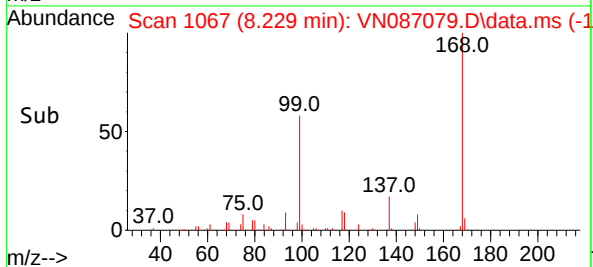
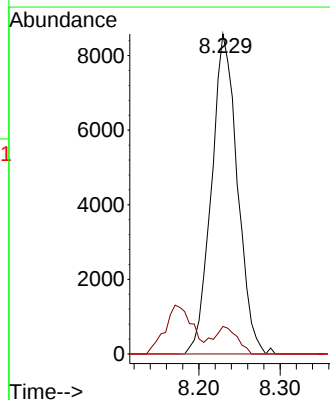
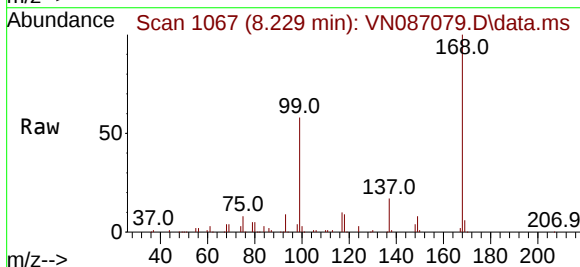
Tgt Ion: 75 Resp: 19075

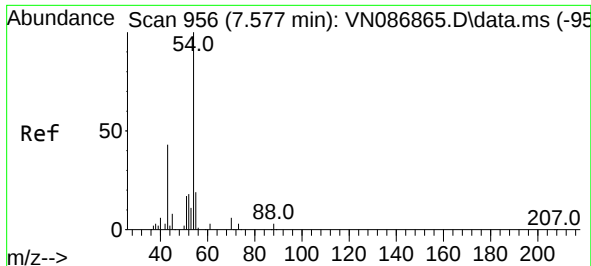
Ion Ratio Lower Upper

75 100

110 7.8 17.6 52.9#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 2.315 ug/l

RT: 7.577 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN087079.D

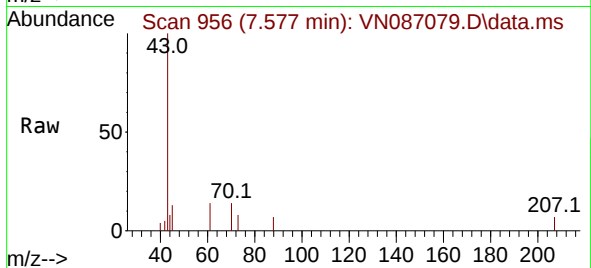
Acq: 18 Jun 2025 12:51

Instrument :

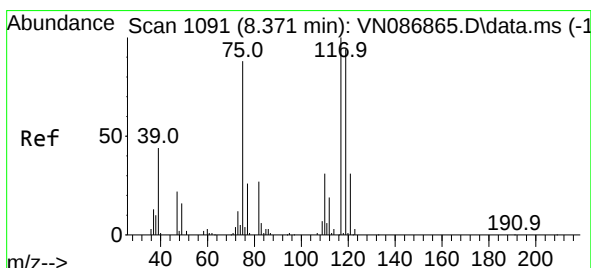
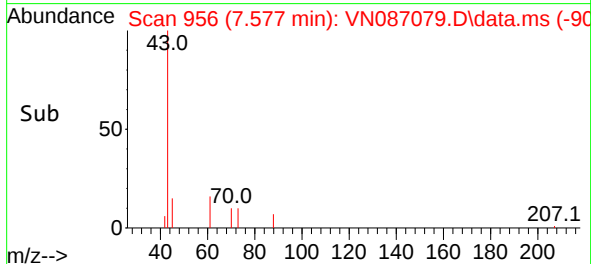
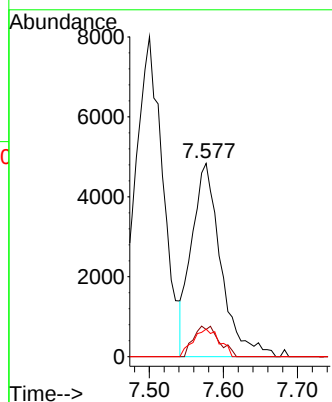
MSVOA_N

ClientSampleId :

PB168515TB



Tgt Ion:	43	Resp:	13313
Ion	Ratio	Lower	Upper
43	100		
61	13.8	12.1	18.1
70	12.9	9.8	14.6



#38

Carbon Tetrachloride

Concen: 5.563 ug/l

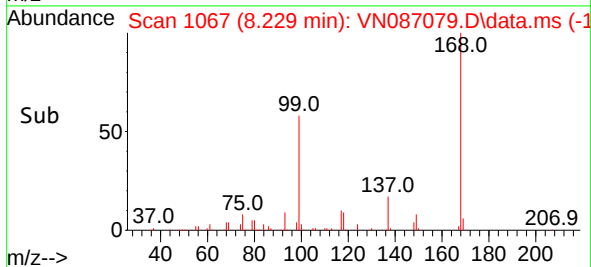
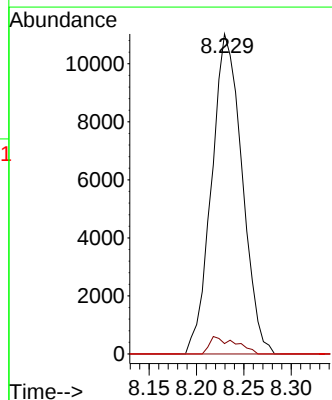
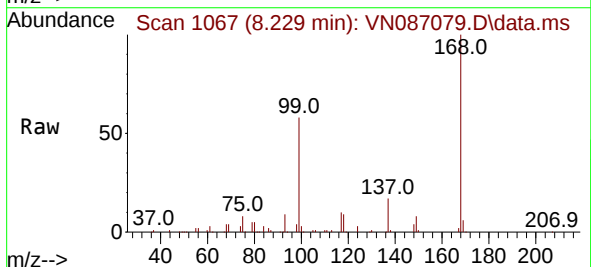
RT: 8.229 min Scan# 1067

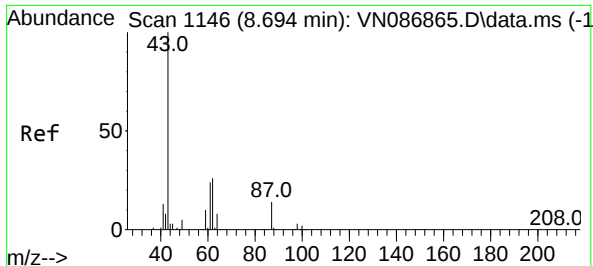
Delta R.T. -0.141 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Tgt Ion:	117	Resp:	24675
Ion	Ratio	Lower	Upper
117	100		
119	3.2	75.0	112.6#
121	0.0	24.9	37.3#

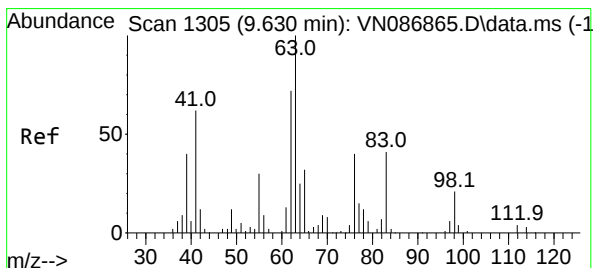
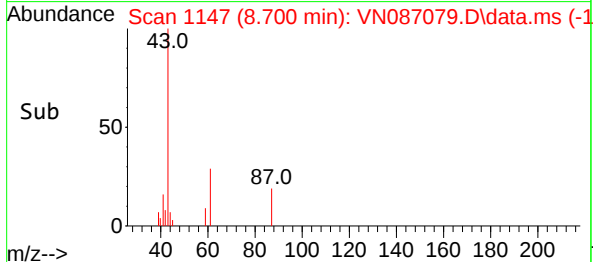
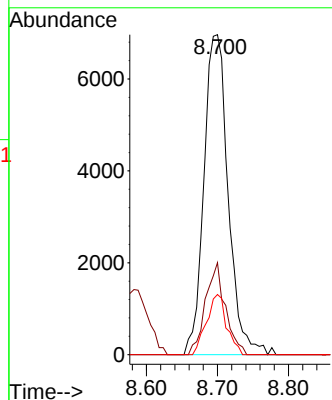
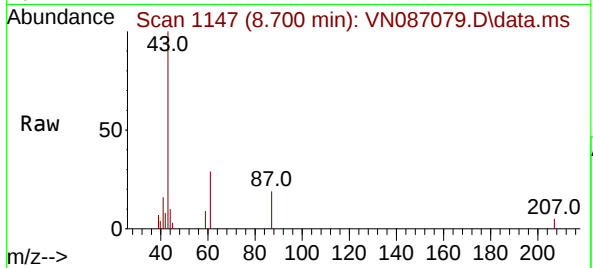




#43
Isopropyl Acetate
Concen: 1.797 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

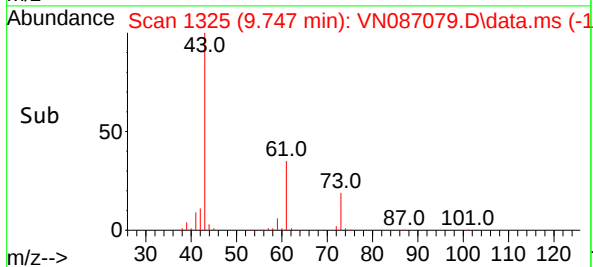
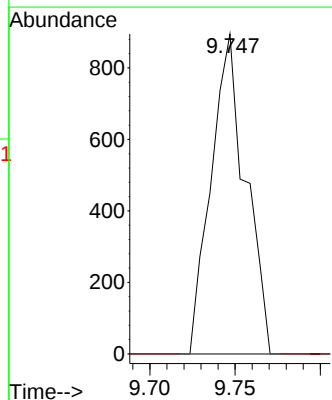
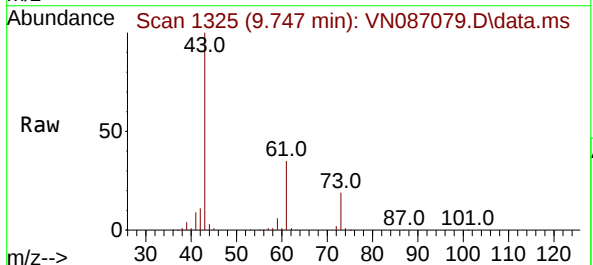
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

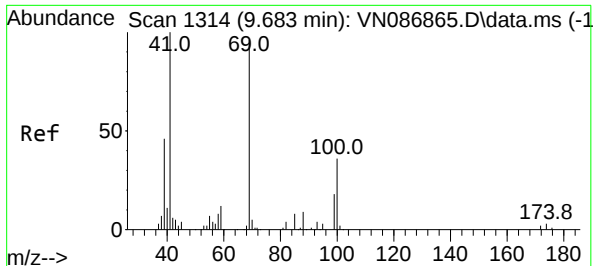
Tgt Ion: 43 Resp: 16587
Ion Ratio Lower Upper
43 100
61 23.5 22.1 33.1
87 15.6 11.8 17.6



#45
1,2-Dichloropropane
Concen: 0.351 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.117 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 63 Resp: 1260
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#

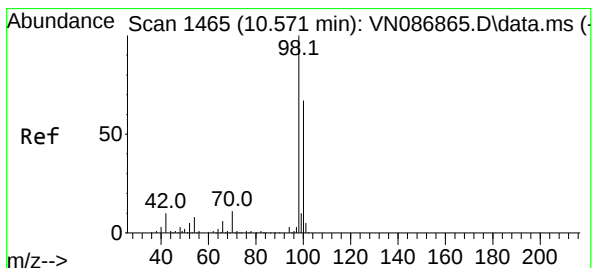
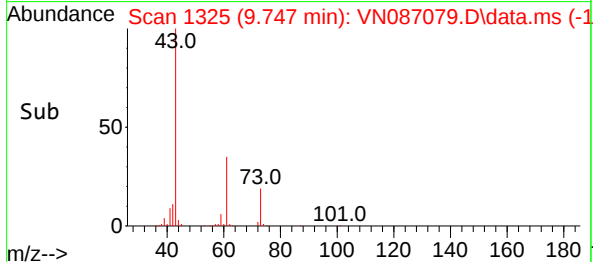
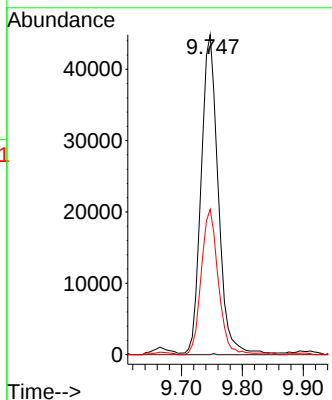
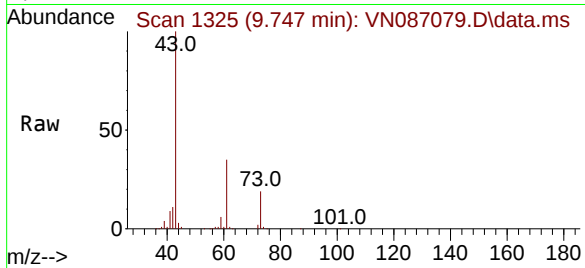




#48
Methyl methacrylate
Concen: 20.631 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

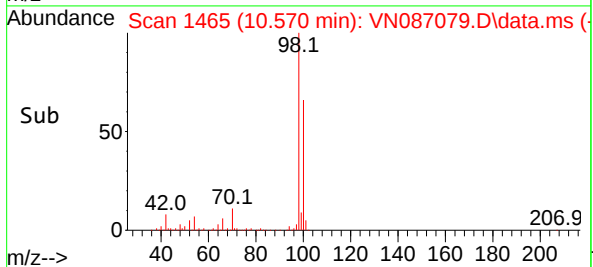
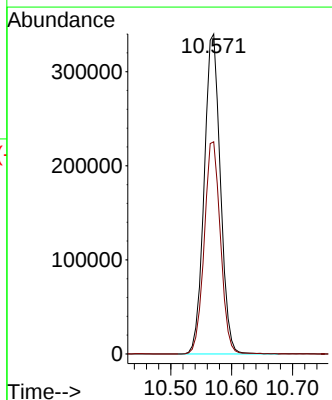
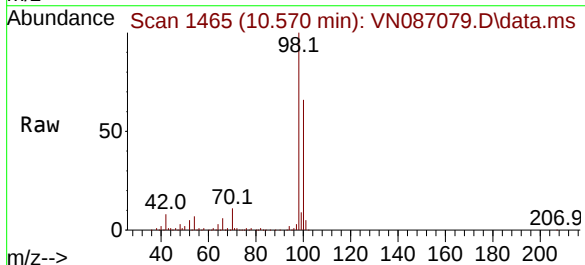
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

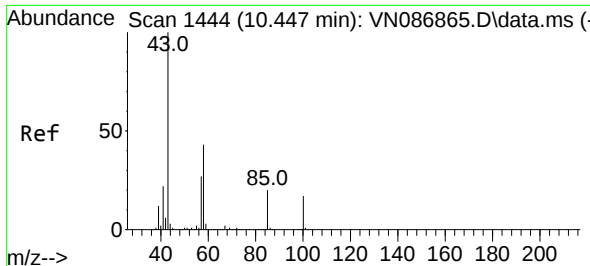
Tgt Ion: 41 Resp: 87658
Ion Ratio Lower Upper
41 100
69 0.1 74.6 112.0#
39 45.0 40.2 60.4



#50
Toluene-d8
Concen: 52.334 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 98 Resp: 628194
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.0

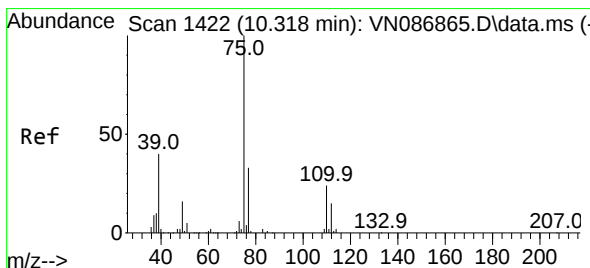
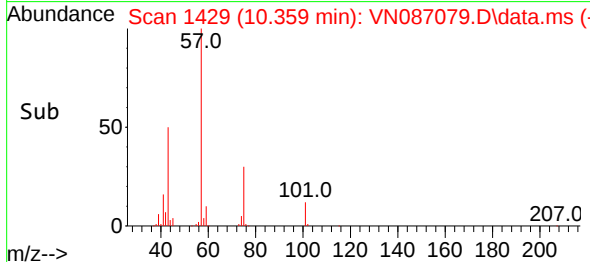
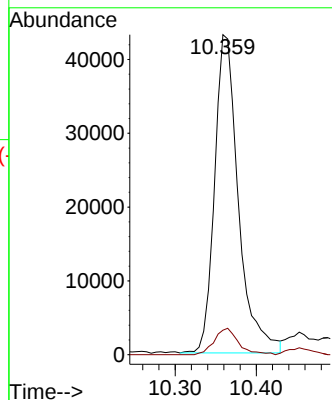
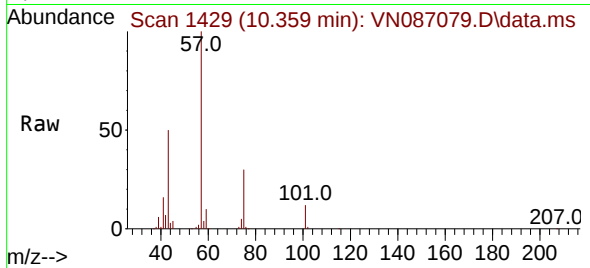




#51
4-Methyl-2-Pentanone
Concen: 15.873 ug/l
RT: 10.359 min Scan# 1444
Delta R.T. -0.088 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

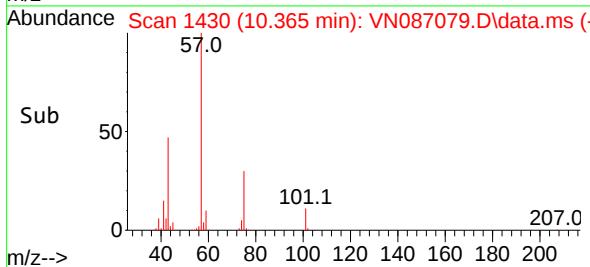
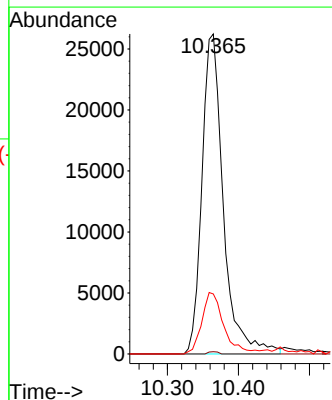
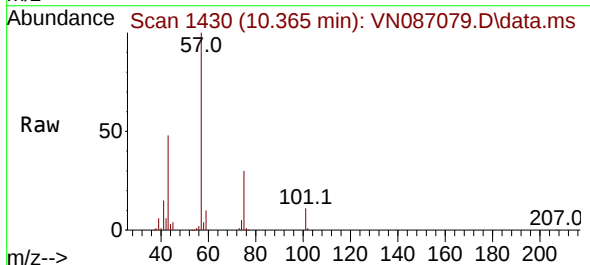
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

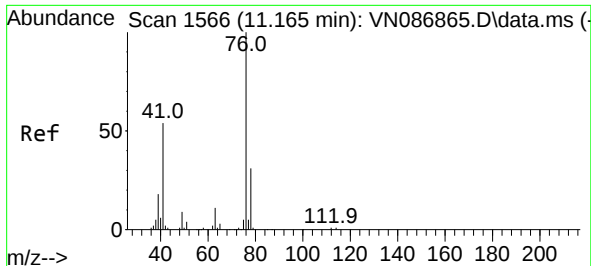
Tgt Ion: 43 Resp: 88213
Ion Ratio Lower Upper
43 100
58 8.4 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 9.325 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 75 Resp: 54807
Ion Ratio Lower Upper
75 100
77 0.7 26.2 39.4#
39 18.7 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.606 ug/l

RT: 11.218 min Scan# 1575

Delta R.T. 0.053 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

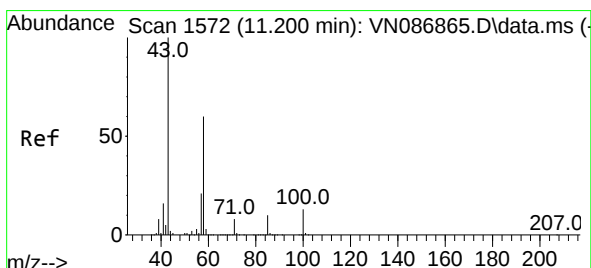
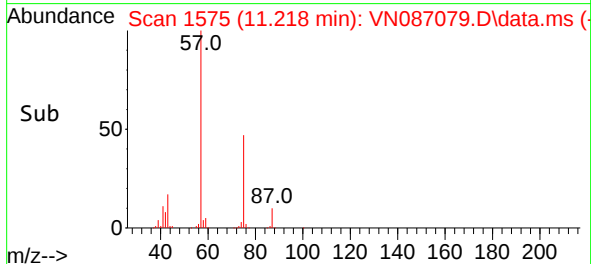
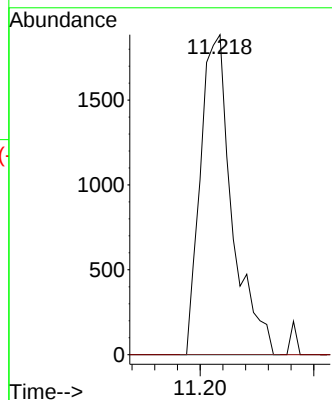
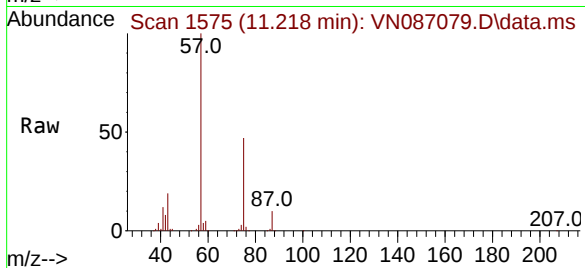
PB168515TB

Tgt Ion: 76 Resp: 3654

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 11.663 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087079.D

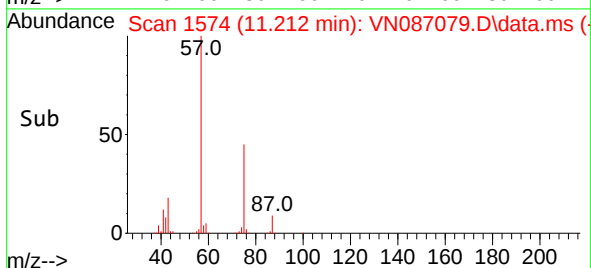
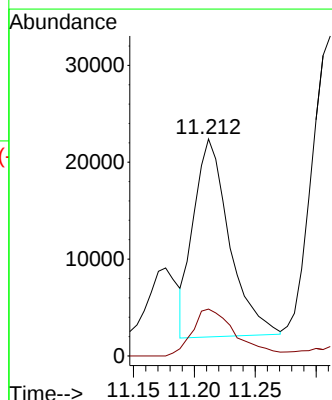
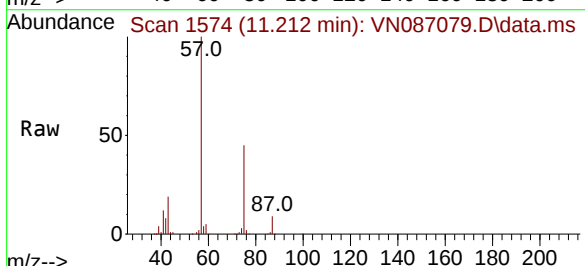
Acq: 18 Jun 2025 12:51

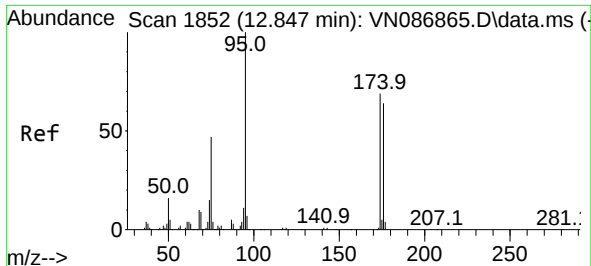
Tgt Ion: 43 Resp: 41750

Ion Ratio Lower Upper

43 100

58 28.6 30.4 91.3#

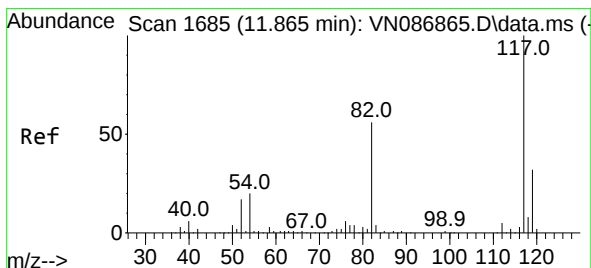
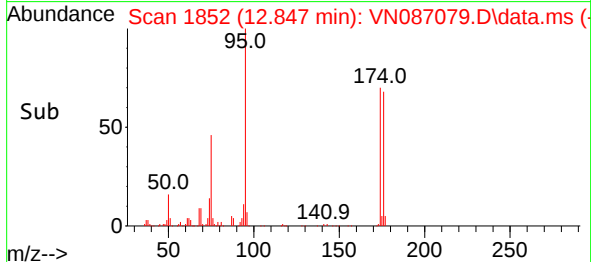
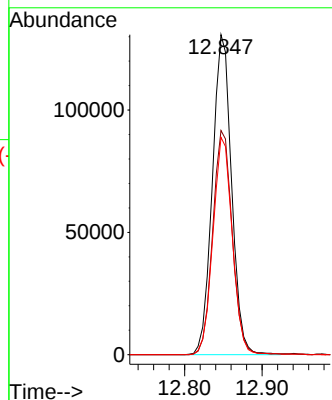
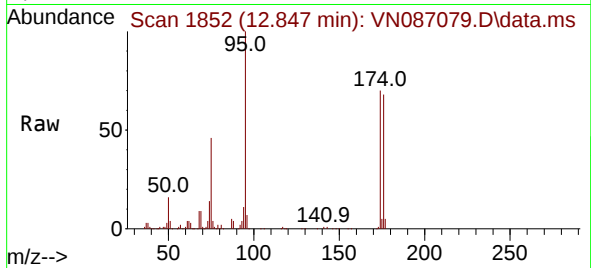




#62
4-Bromofluorobenzene
Concen: 50.437 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

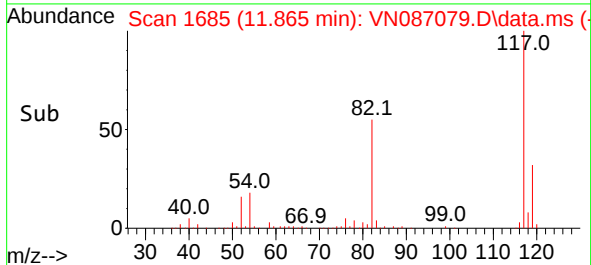
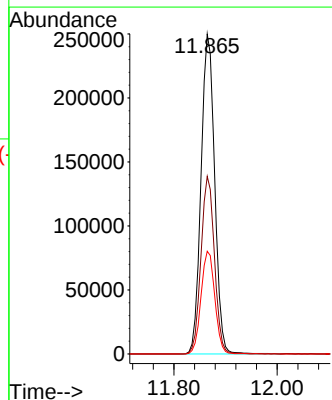
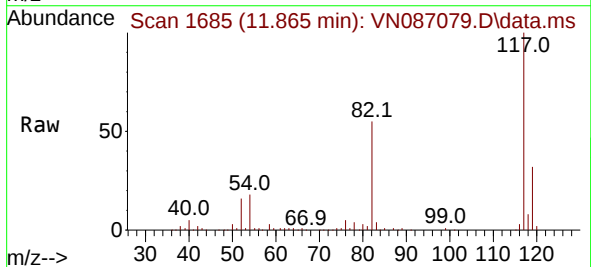
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

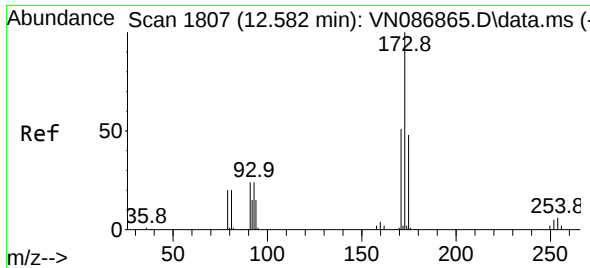
Tgt Ion: 95 Resp: 224931
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.8
176 68.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 117 Resp: 457809
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 32.1 25.5 38.3

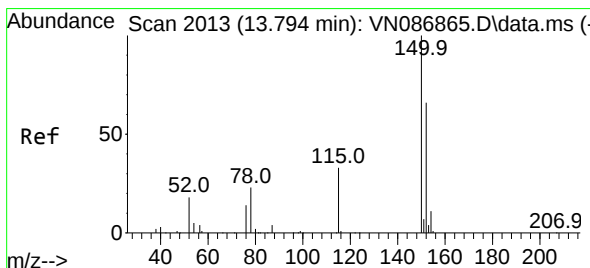
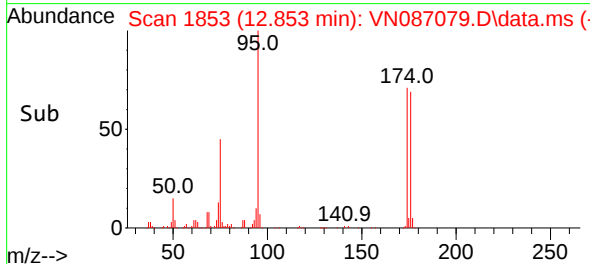
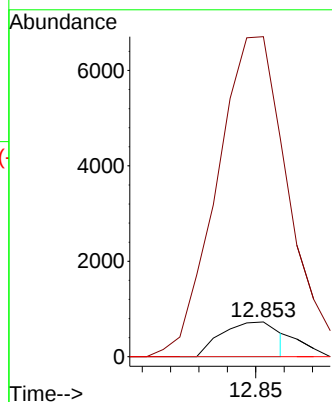
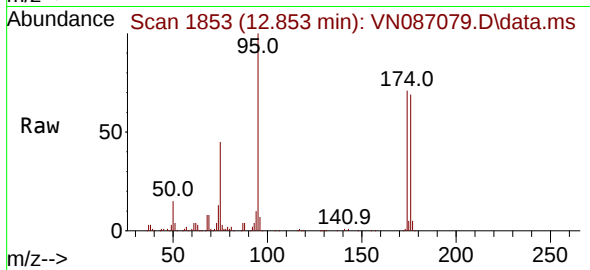




#71
Bromoform
Concen: 0.425 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.270 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

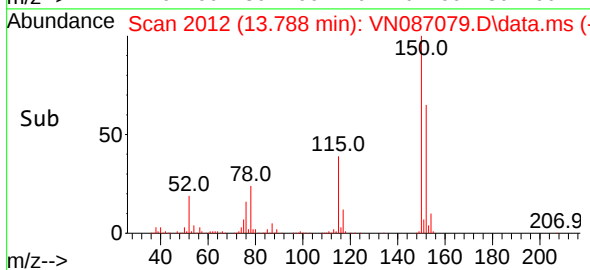
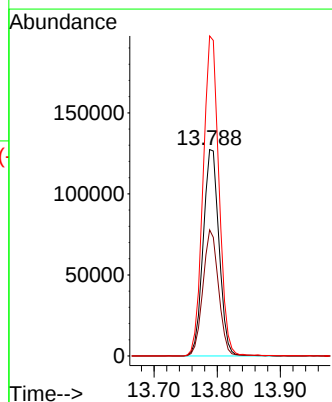
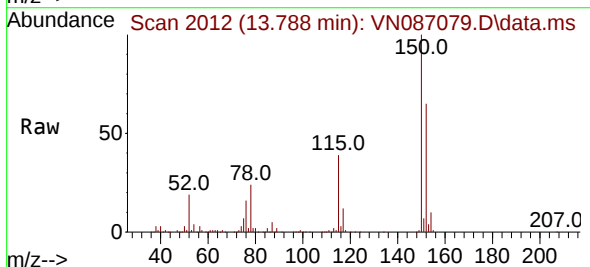
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

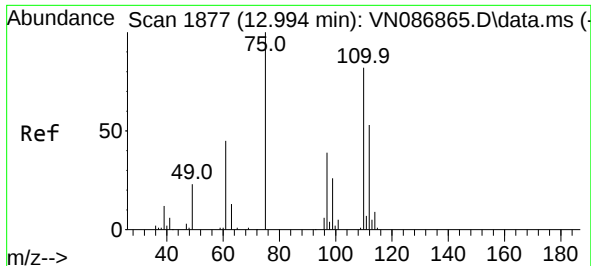
Tgt Ion:173 Resp: 1023
Ion Ratio Lower Upper
173 100
175 995.1 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion:152 Resp: 222222
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.5
150 154.9 0.0 345.0

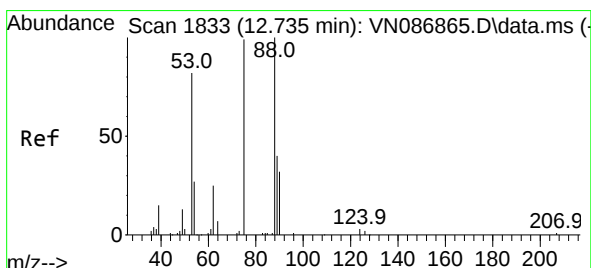
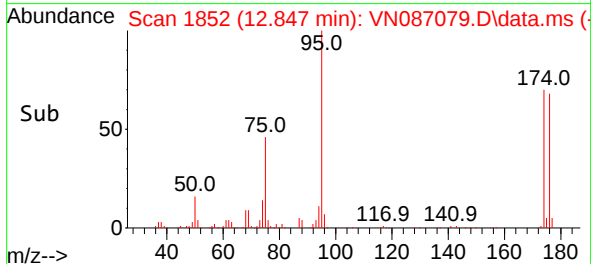
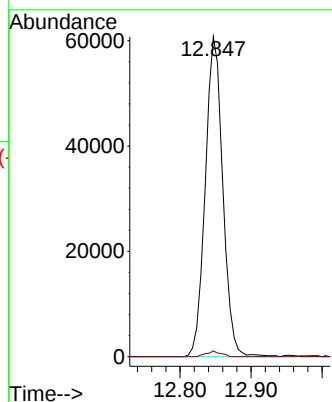
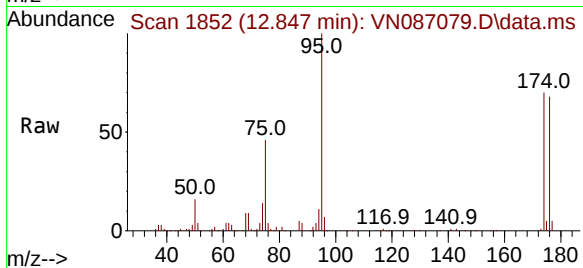




#76
1,2,3-Trichloropropane
Concen: 19.766 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

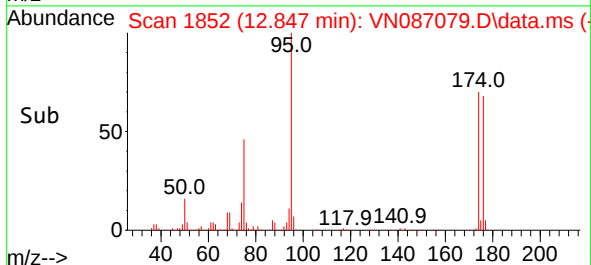
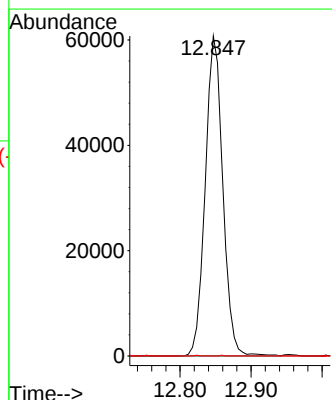
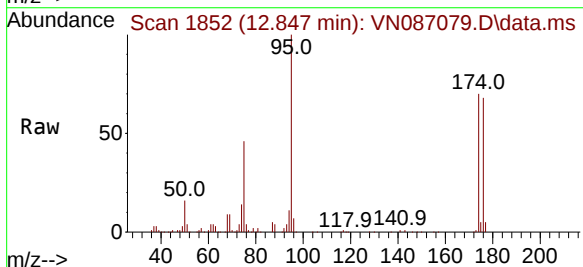
Instrument :
MSVOA_N
ClientSampleId :
PB168515TB

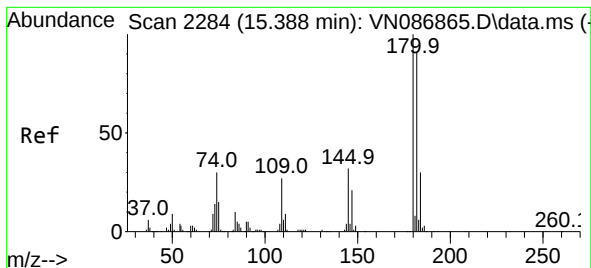
Tgt Ion: 75 Resp: 104412
Ion Ratio Lower Upper
75 100
77 1.5 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 45.501 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087079.D
Acq: 18 Jun 2025 12:51

Tgt Ion: 75 Resp: 104412
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.201 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

PB168515TB

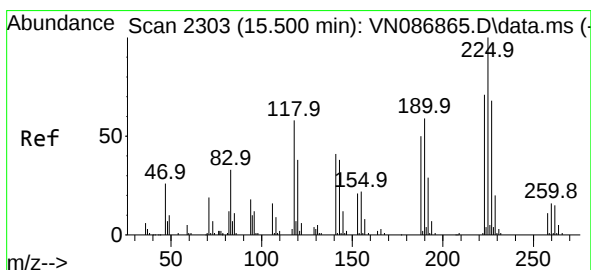
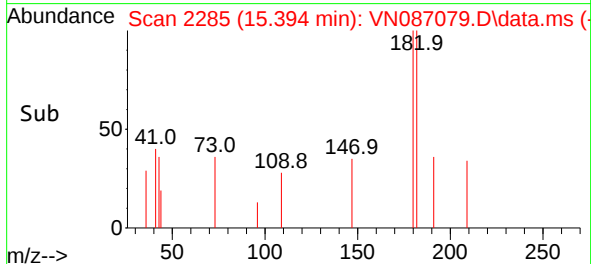
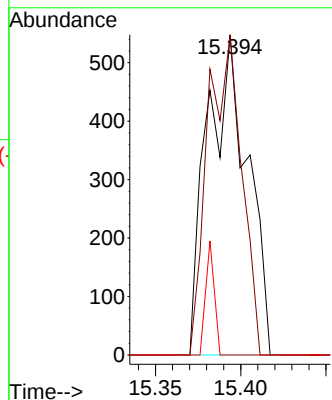
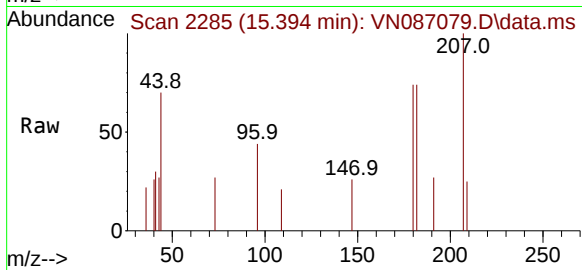
Tgt Ion:180 Resp: 902

Ion Ratio Lower Upper

180 100

182 84.0 46.9 140.7

145 7.6 16.0 47.9#



#94

Hexachlorobutadiene

Concen: 0.471 ug/l

RT: 15.505 min Scan# 2304

Delta R.T. 0.006 min

Lab File: VN087079.D

Acq: 18 Jun 2025 12:51

Tgt Ion:225 Resp: 786

Ion Ratio Lower Upper

225 100

223 53.8 33.5 100.4

227 38.5 31.1 93.5

