

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086689.D
 Acq On : 19 May 2025 15:03
 Operator : JC\MD
 Sample : PB168034ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#06

Quant Time: May 20 03:19:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

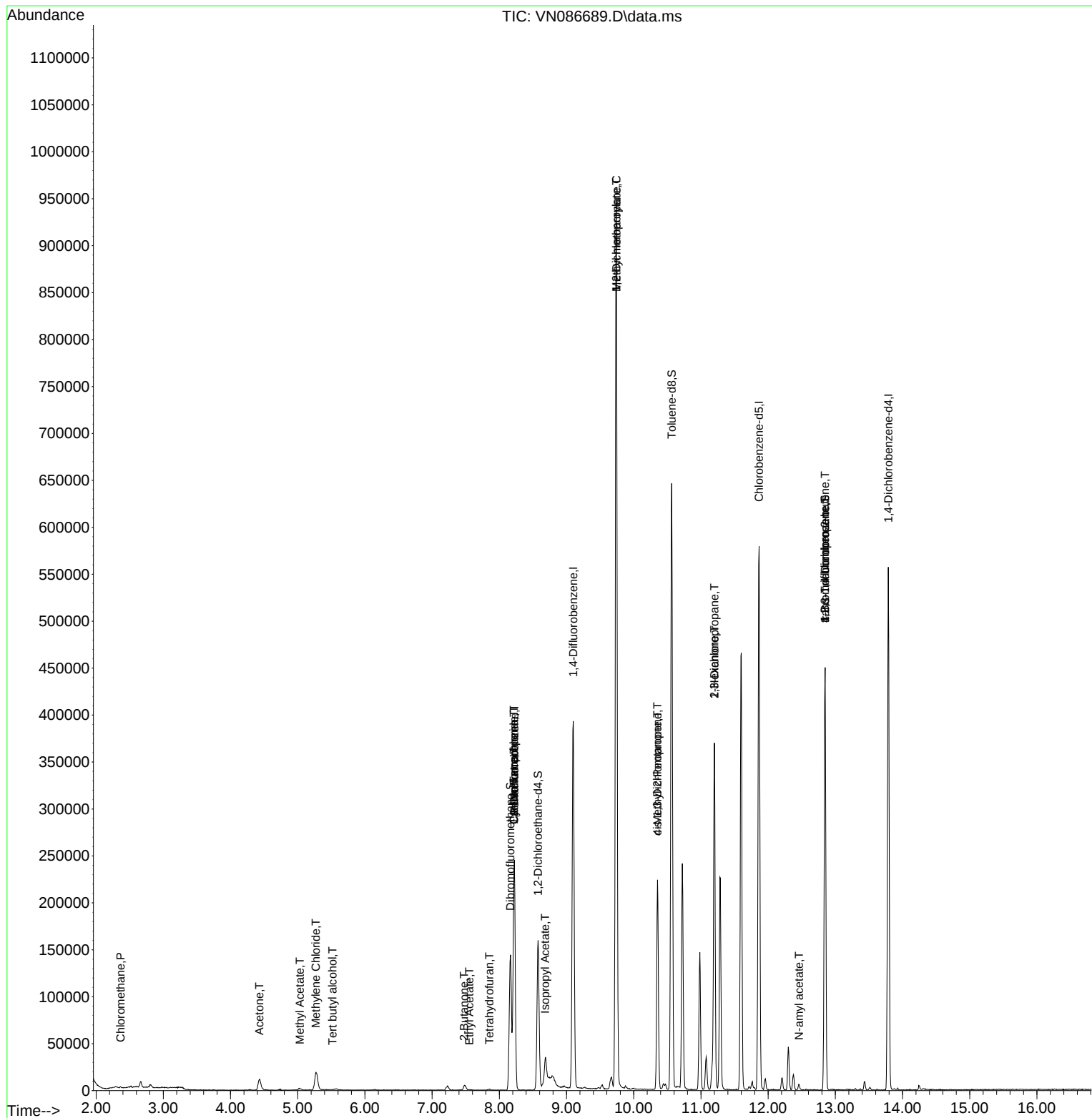
Internal Standards						
1) Pentafluorobenzene	8.224	168	183393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	356532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	349765	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152946	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130135	51.352	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.700%			
35) Dibromofluoromethane	8.165	113	107968	50.849	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	10.565	98	463168	52.638	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.280%			
62) 4-Bromofluorobenzene	12.847	95	167634	53.955	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.920%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	676	0.226	ug/l #	85
11) Tert butyl alcohol	5.518	59	612	1.326	ug/l #	73
16) Acetone	4.430	43	23676	24.976	ug/l	98
18) Methyl Acetate	5.030	43	3973	1.497	ug/l #	70
20) Methylene Chloride	5.271	84	15830	6.328	ug/l #	93
25) 2-Butanone	7.477	43	9707	6.627	ug/l	94
29) Tetrahydrofuran	7.853	42	800	0.837	ug/l #	44
31) Cyclohexane	8.218	56	3839	1.009	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14674	4.685	ug/l #	49
37) Ethyl Acetate	7.553	43	913	0.289	ug/l #	67
38) Carbon Tetrachloride	8.218	117	18315	5.935	ug/l #	15
43) Isopropyl Acetate	8.683	43	53394	8.419	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	1145	0.472	ug/l #	42
48) Methyl methacrylate	9.741	41	83633	34.030	ug/l #	37
51) 4-Methyl-2-Pentanone	10.353	43	78298	24.481	ug/l #	44
54) cis-1,3-Dichloropropene	10.353	75	41742	10.703	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3813	0.934	ug/l #	42
59) 2-Hexanone	11.200	43	71670	30.685	ug/l #	44
74) N-amyl acetate	12.459	43	4583	0.929	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	83805	24.228	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83805	61.143	ug/l #	15

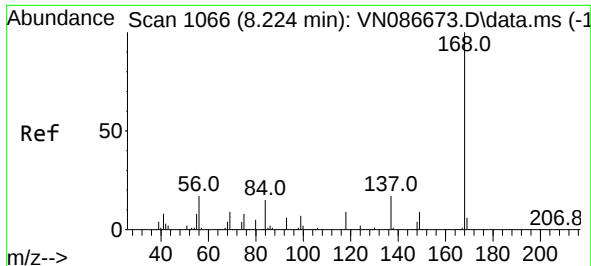
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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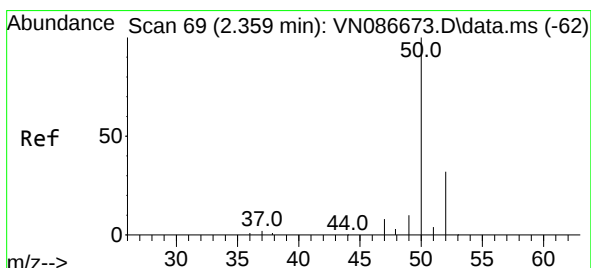
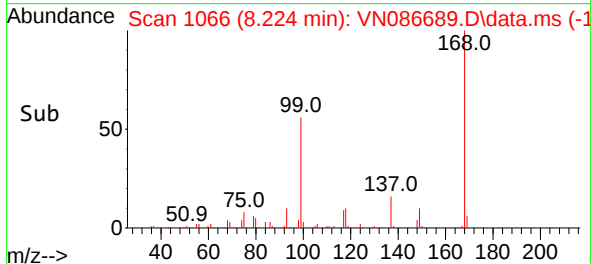
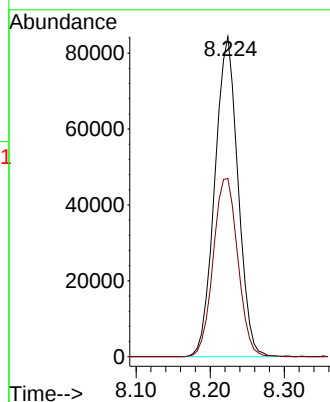
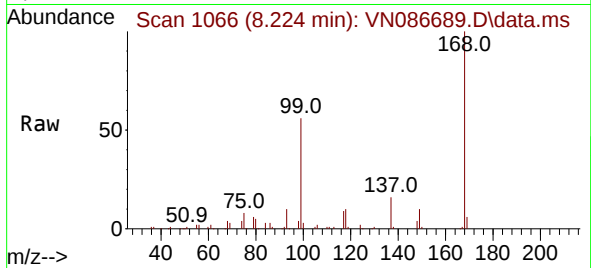




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

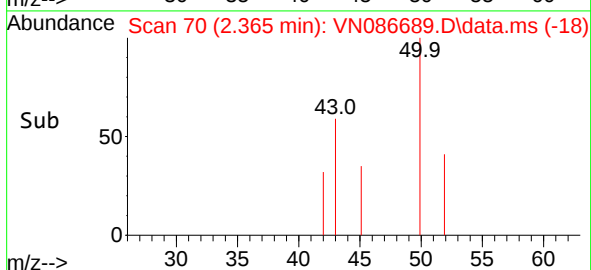
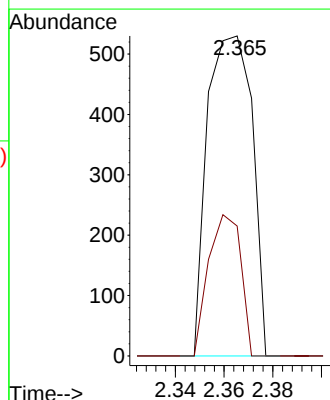
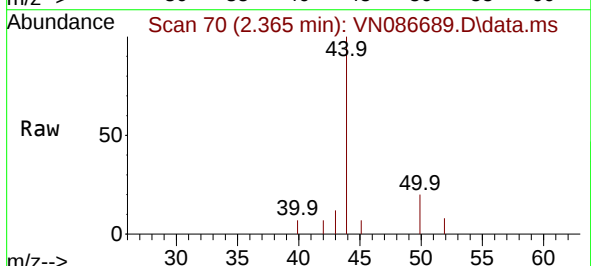
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

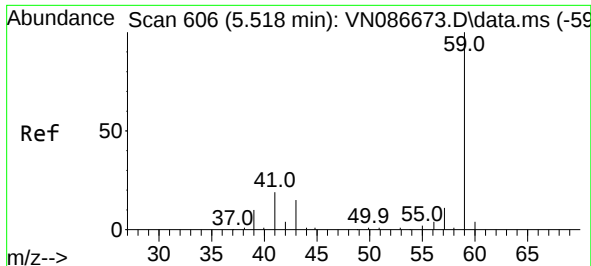
Tgt Ion:168 Resp: 183393
Ion Ratio Lower Upper
168 100
99 55.7 47.0 70.4



#3
Chloromethane
Concen: 0.226 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

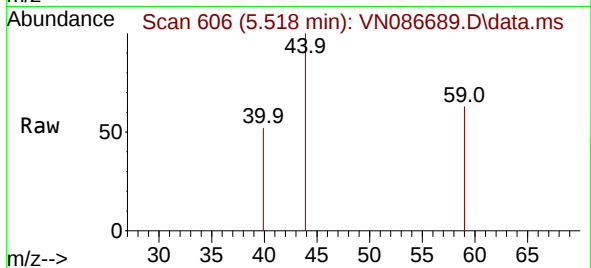
Tgt Ion: 50 Resp: 676
Ion Ratio Lower Upper
50 100
52 40.6 25.9 38.9#



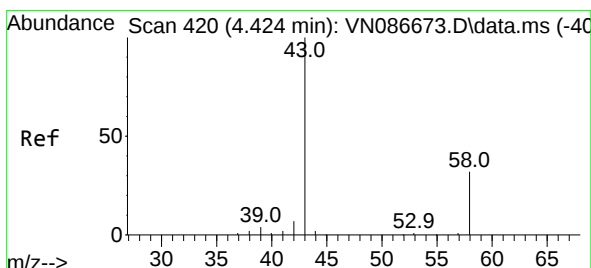
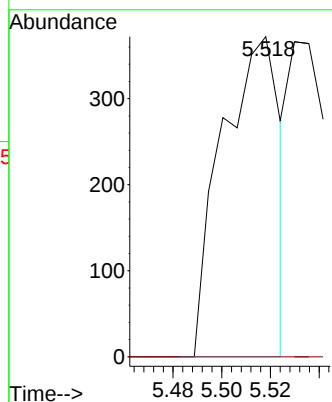
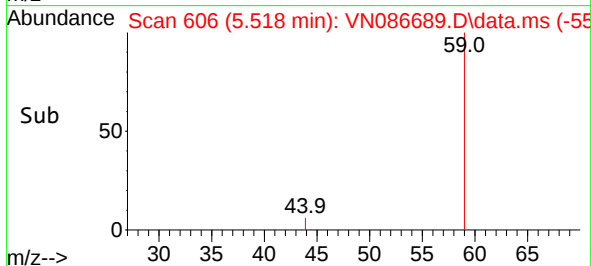


#11
Tert butyl alcohol
Concen: 1.326 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

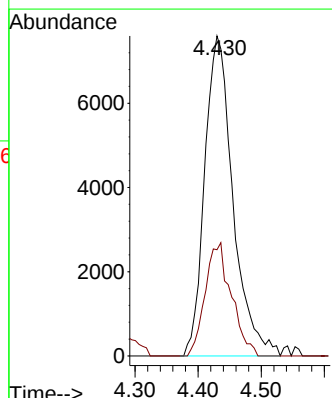
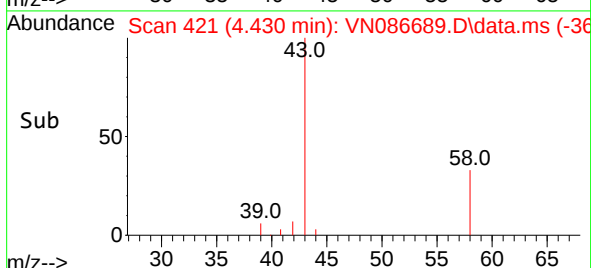
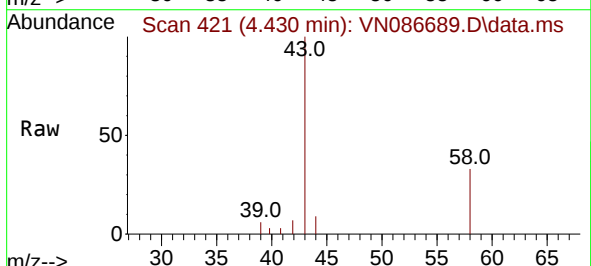


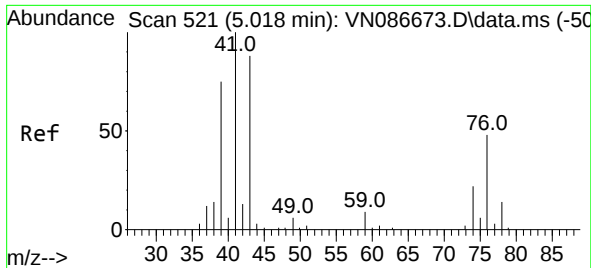
Tgt Ion: 59 Resp: 612
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 24.976 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 43 Resp: 23676
Ion Ratio Lower Upper
43 100
58 33.2 25.8 38.6

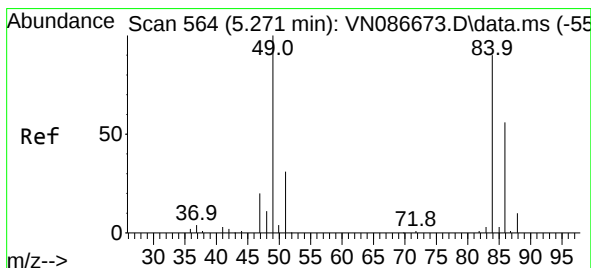
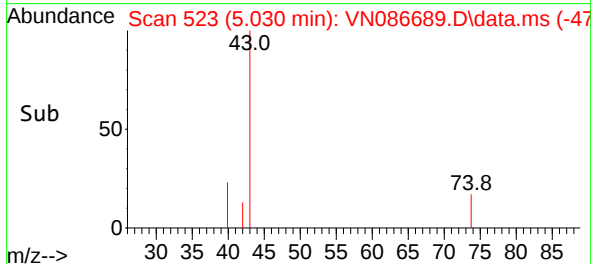
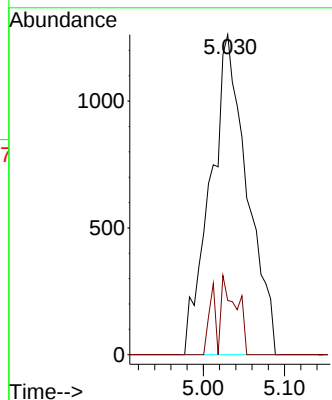
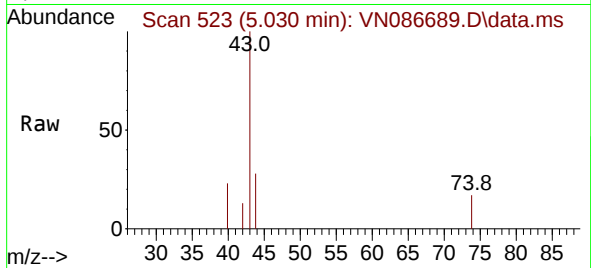




#18
Methyl Acetate
Concen: 1.497 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

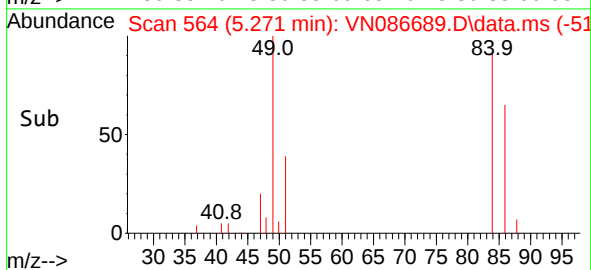
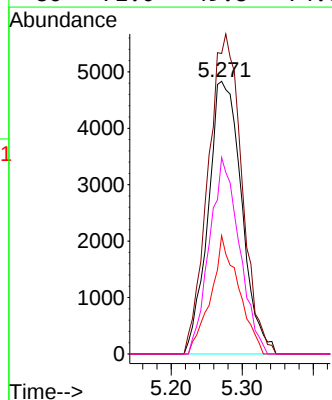
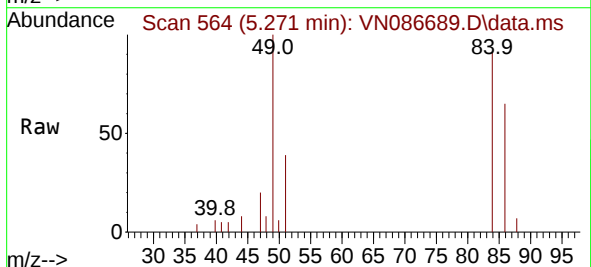
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

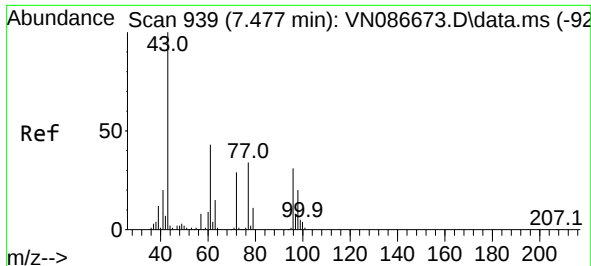
Tgt Ion: 43 Resp: 3973
Ion Ratio Lower Upper
43 100
74 10.2 20.5 30.7#



#20
Methylene Chloride
Concen: 6.328 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 84 Resp: 15830
Ion Ratio Lower Upper
84 100
49 110.2 88.8 133.2
51 43.4 27.8 41.6#
86 72.0 49.8 74.6

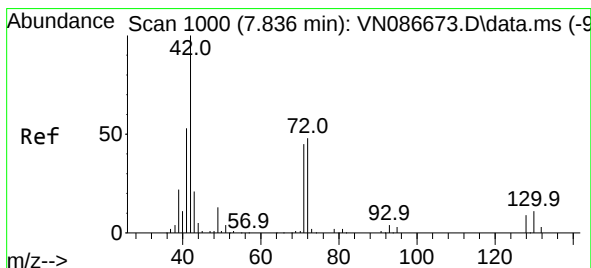
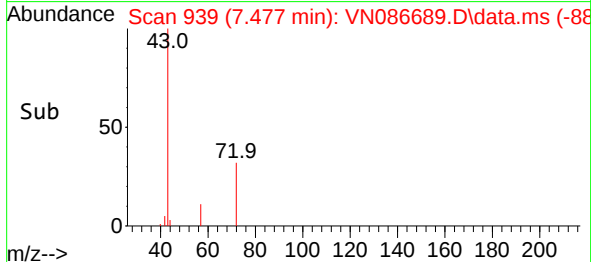
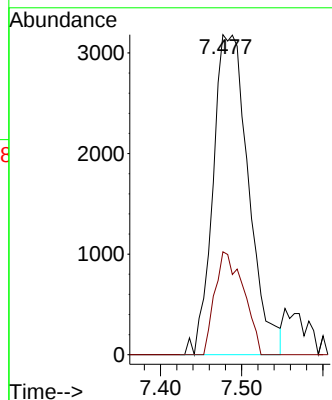
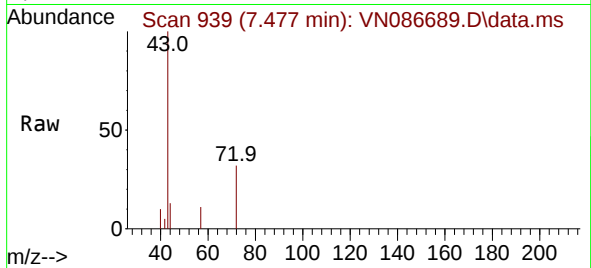




#25
2-Butanone
Concen: 6.627 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

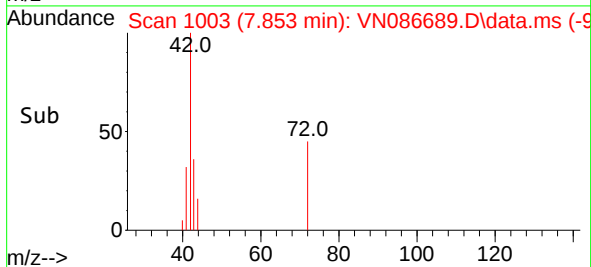
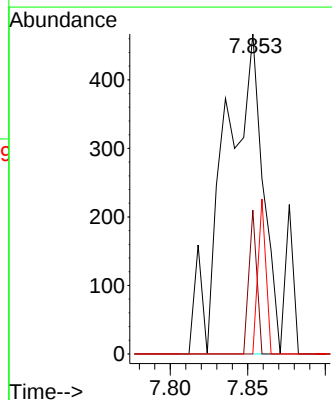
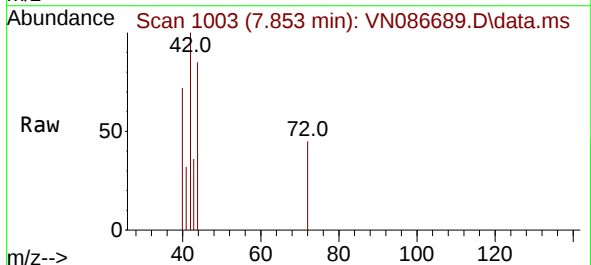
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

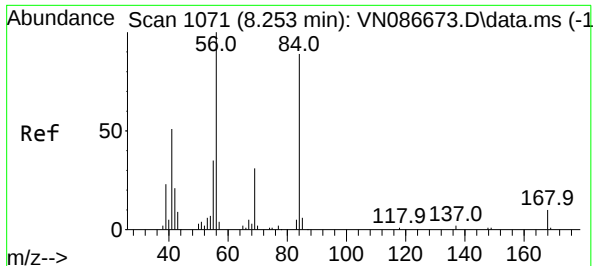
Tgt Ion: 43 Resp: 9707
Ion Ratio Lower Upper
43 100
72 32.2 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.837 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 42 Resp: 800
Ion Ratio Lower Upper
42 100
72 9.3 38.7 58.1#
71 10.0 36.2 54.4#





#31

Cyclohexane

Concen: 1.009 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086689.D

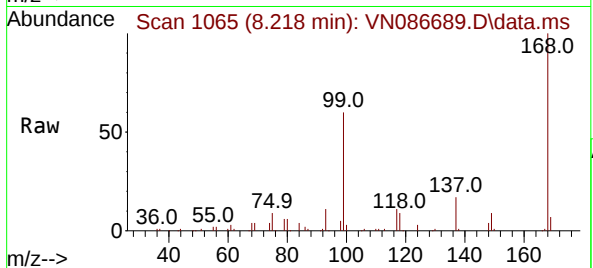
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Instrument :

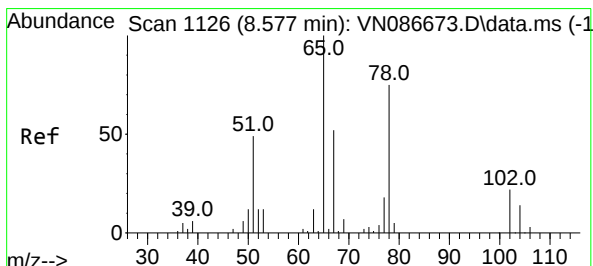
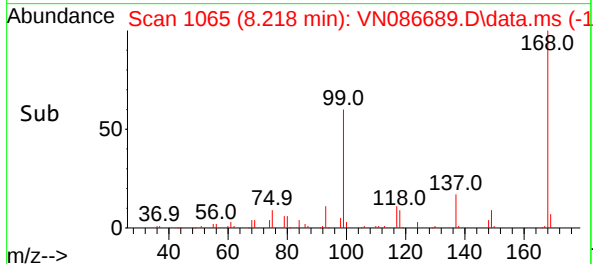
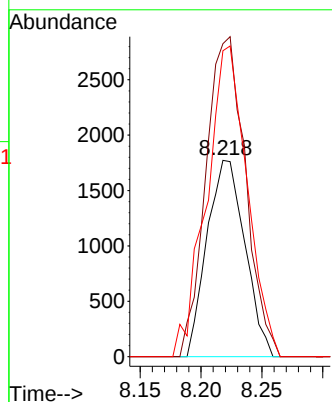
MSVOA_N

ClientSampleId :

PB168034ZHE#06



Tgt Ion: 56	Resp: 3839
Ion Ratio	Lower Upper
56	100
69	159.3 25.0 37.6#
84	155.8 71.0 106.4#



#33

1,2-Dichloroethane-d4

Concen: 51.352 ug/l

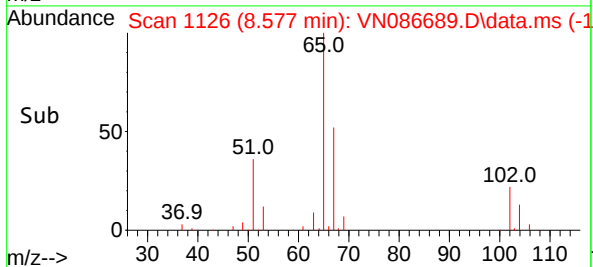
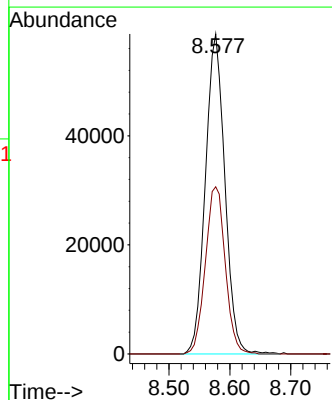
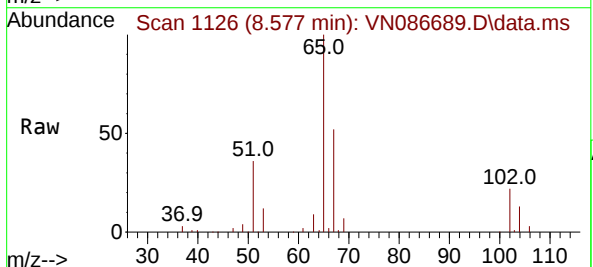
RT: 8.577 min Scan# 1126

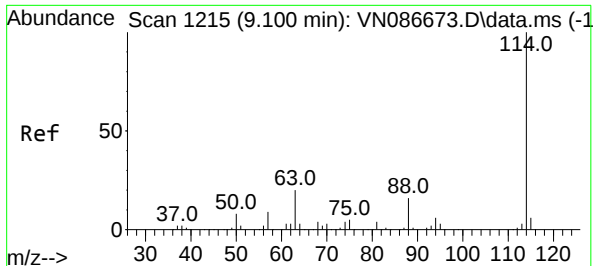
Delta R.T. 0.000 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

Tgt Ion: 65	Resp: 130135
Ion Ratio	Lower Upper
65	100
67	53.4 0.0 106.4

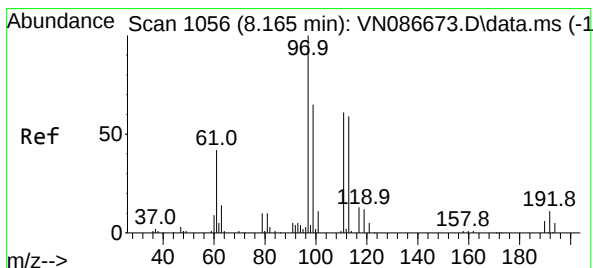
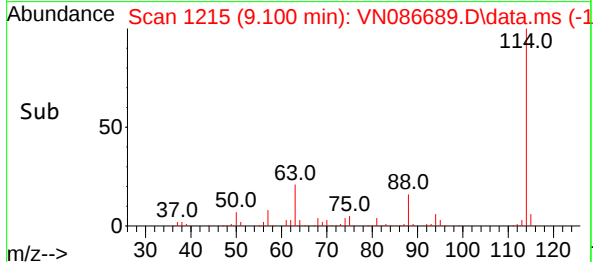
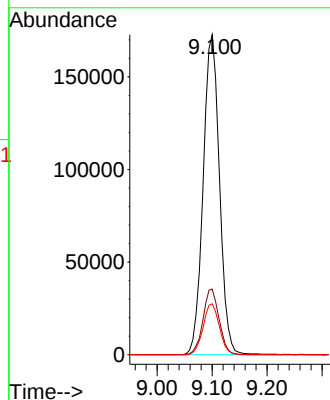
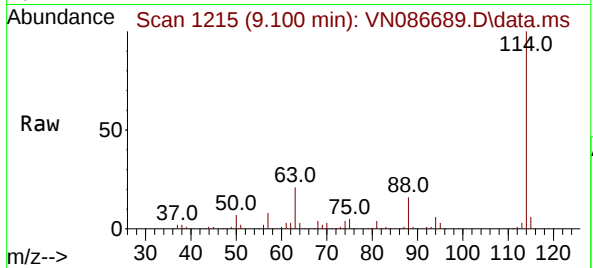




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

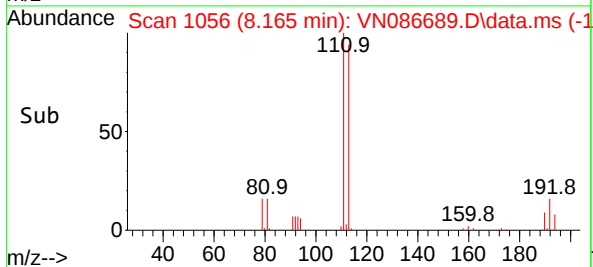
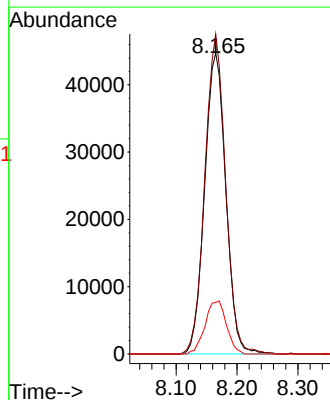
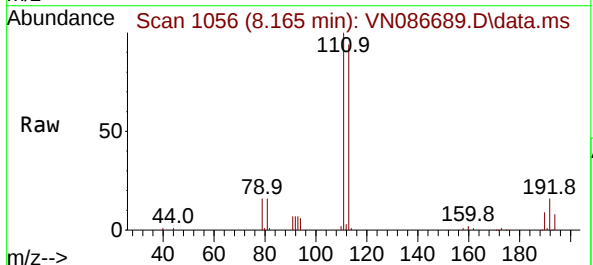
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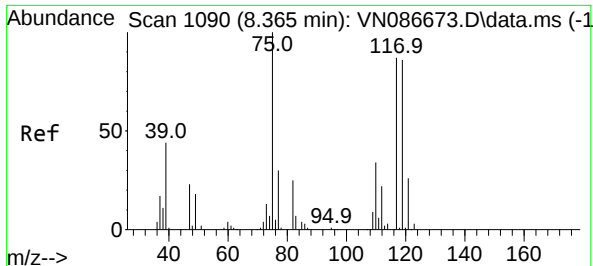
Tgt Ion:114 Resp: 356532
Ion Ratio Lower Upper
114 100
63 20.5 0.0 40.2
88 15.9 0.0 31.2



#35
Dibromofluoromethane
Concen: 50.849 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion:113 Resp: 107968
Ion Ratio Lower Upper
113 100
111 104.0 82.2 123.2
192 17.8 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.685 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#06

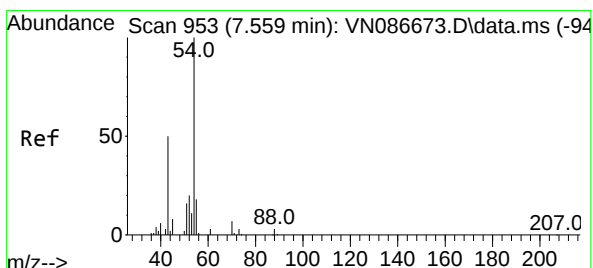
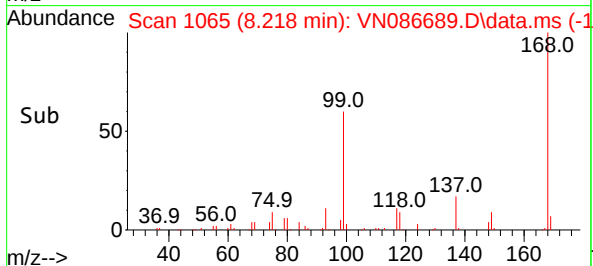
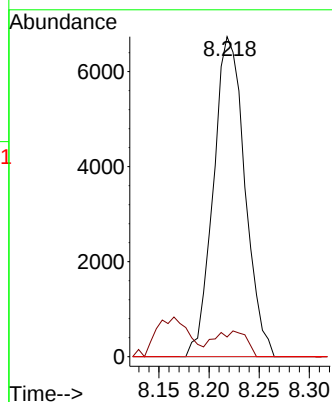
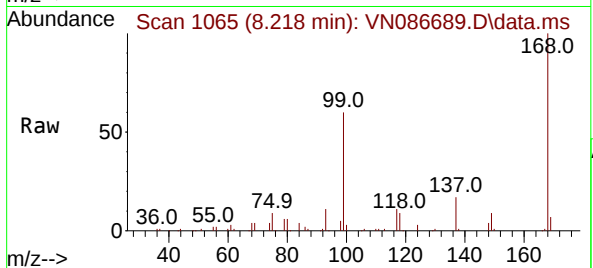
Tgt Ion: 75 Resp: 14674

Ion Ratio Lower Upper

75 100

110 8.2 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.289 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

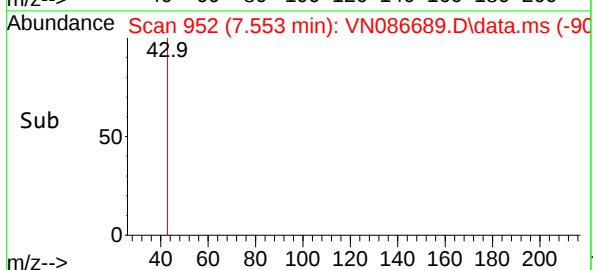
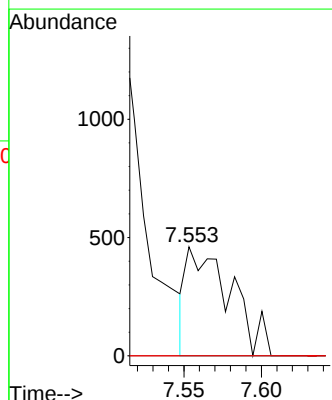
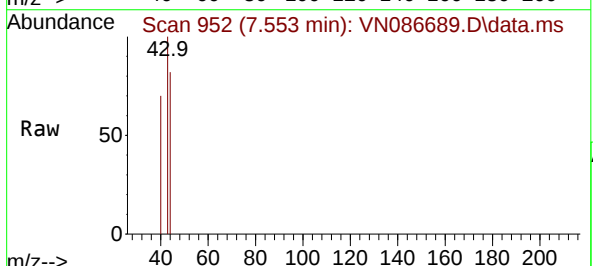
Tgt Ion: 43 Resp: 913

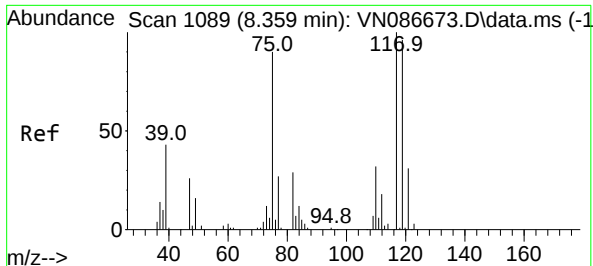
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

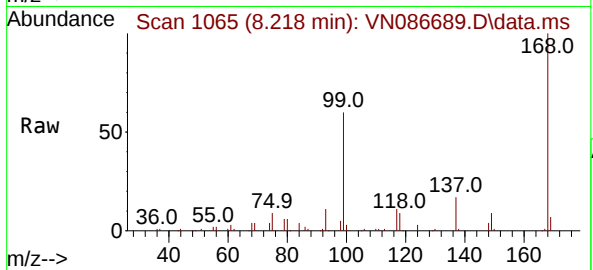
70 0.0 9.4 14.0#



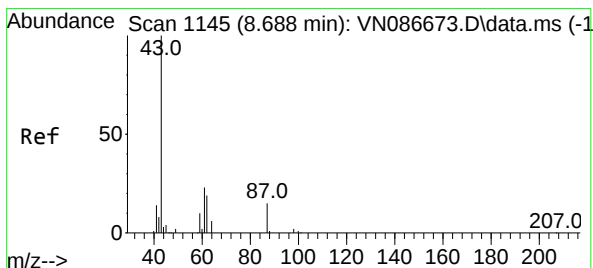
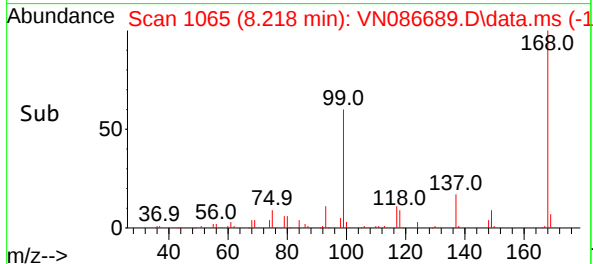
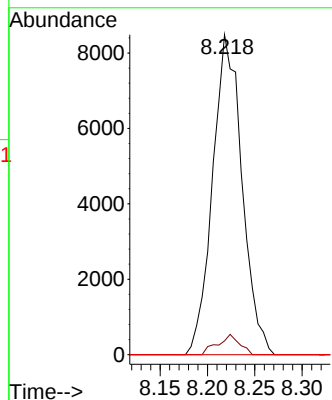


#38
Carbon Tetrachloride
Concen: 5.935 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

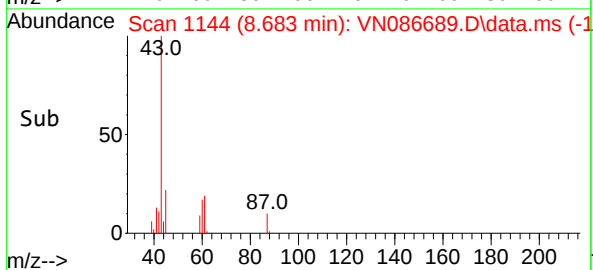
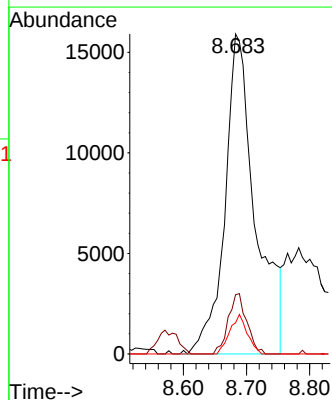
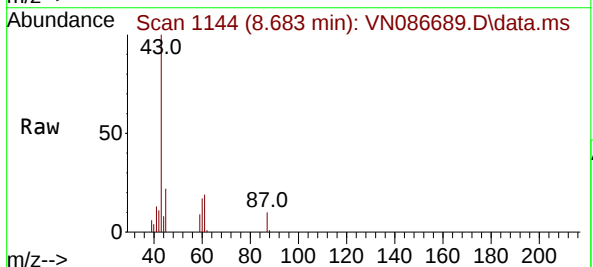


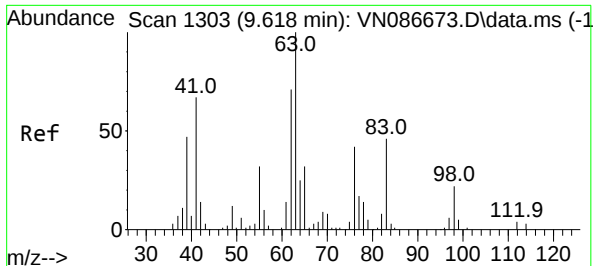
Tgt Ion:117 Resp: 18315
Ion Ratio Lower Upper
117 100
119 4.3 77.0 115.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 8.419 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 43 Resp: 53394
Ion Ratio Lower Upper
43 100
61 11.4 21.4 32.2#
87 7.0 11.1 16.7#





#45

1,2-Dichloropropane

Concen: 0.472 ug/l

RT: 9.741 min Scan# 1145

Delta R.T. 0.124 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

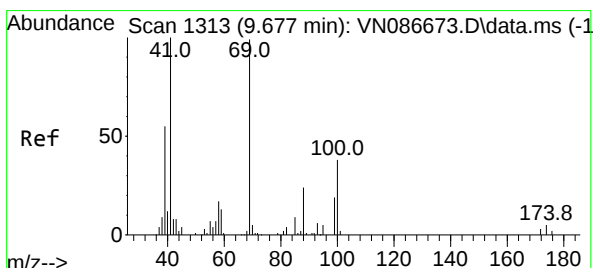
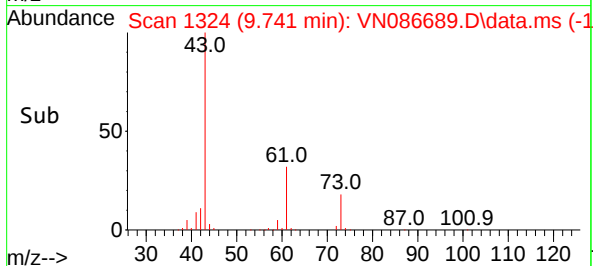
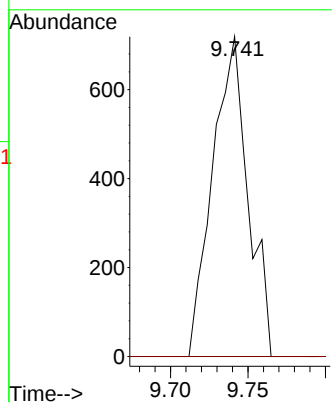
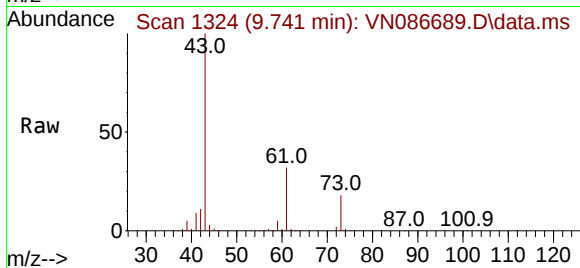
PB168034ZHE#06

Tgt Ion: 63 Resp: 1145

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 34.030 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

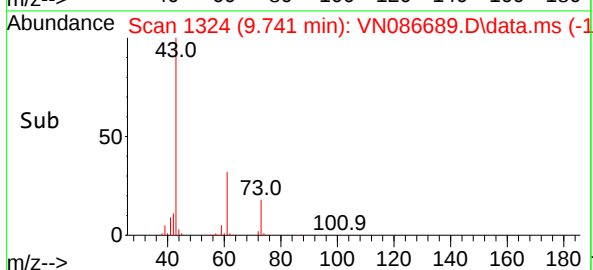
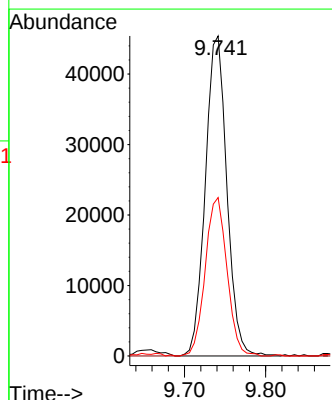
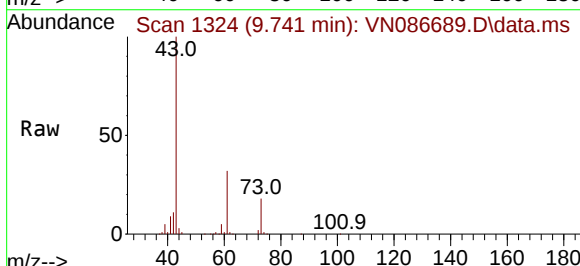
Tgt Ion: 41 Resp: 83633

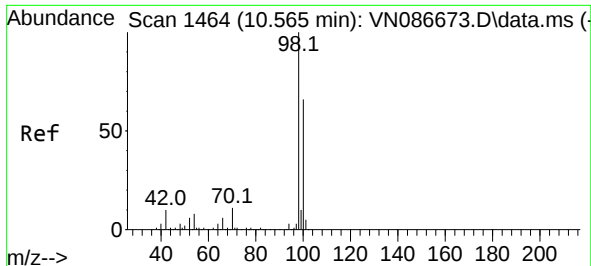
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 50.0 44.1 66.1

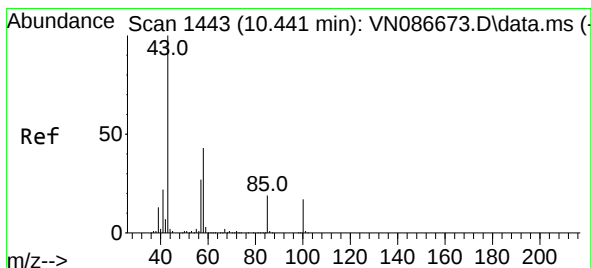
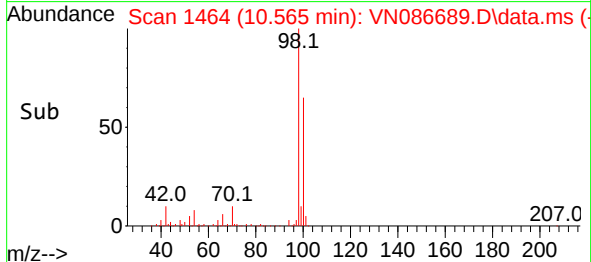
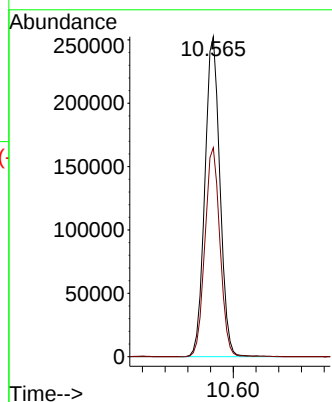
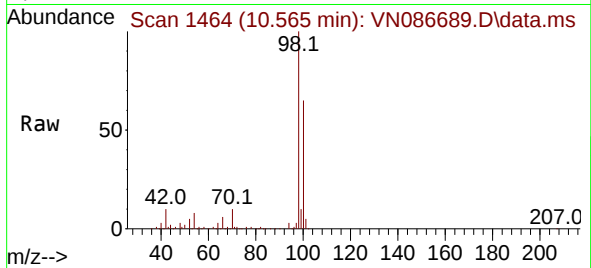




#50
Toluene-d8
Concen: 52.638 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

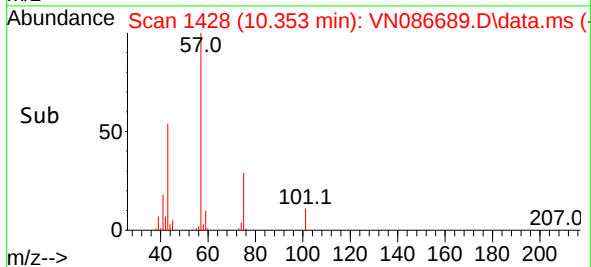
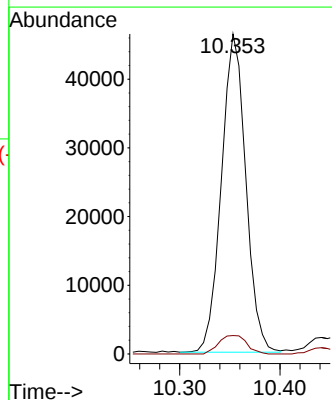
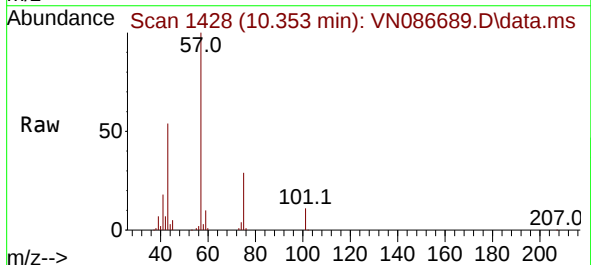
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

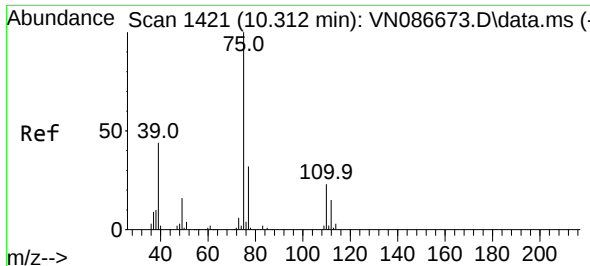
Tgt Ion: 98 Resp: 463168
Ion Ratio Lower Upper
98 100
100 65.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 24.481 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. -0.088 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 43 Resp: 78298
Ion Ratio Lower Upper
43 100
58 6.7 33.9 50.9#

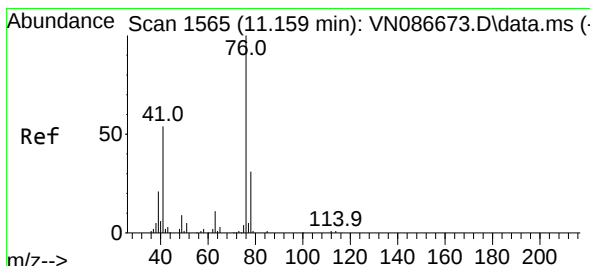
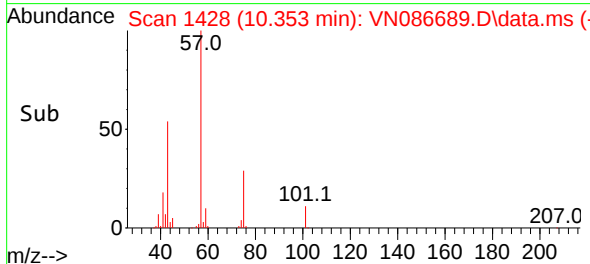
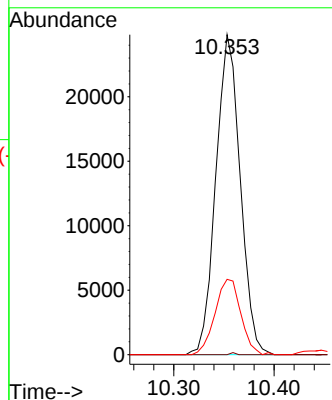
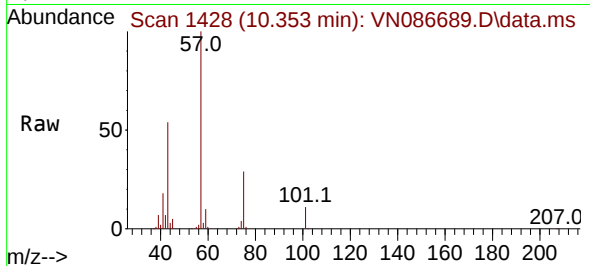




#54
 cis-1,3-Dichloropropene
 Concen: 10.703 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086689.D
 Acq: 19 May 2025 15:03

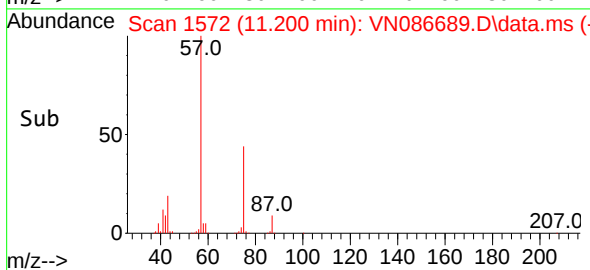
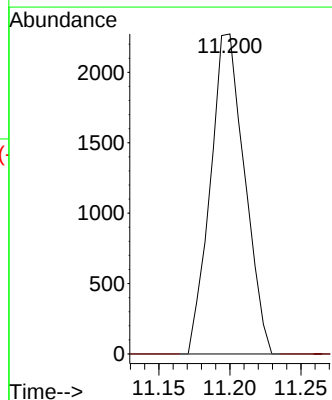
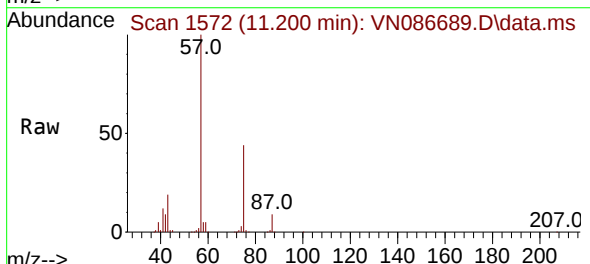
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#06

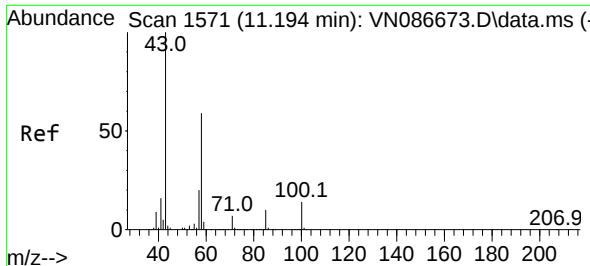
Tgt Ion: 75 Resp: 41742
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 23.5 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 0.934 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086689.D
 Acq: 19 May 2025 15:03

Tgt Ion: 76 Resp: 3813
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

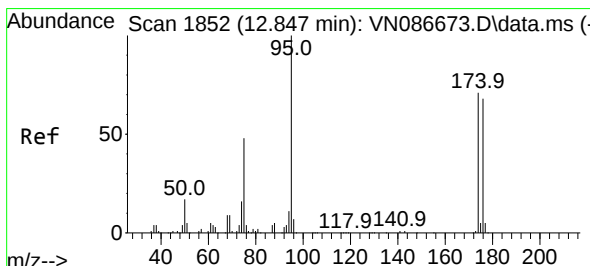
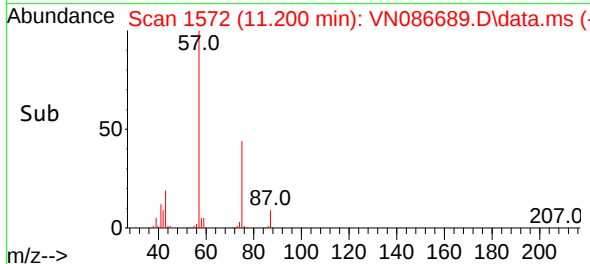
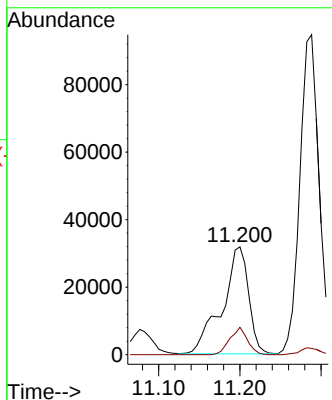
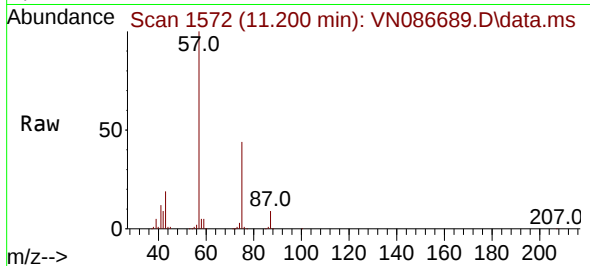




#59
2-Hexanone
Concen: 30.685 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

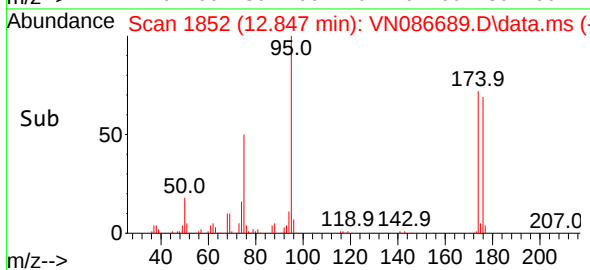
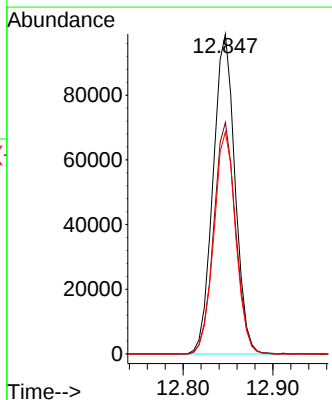
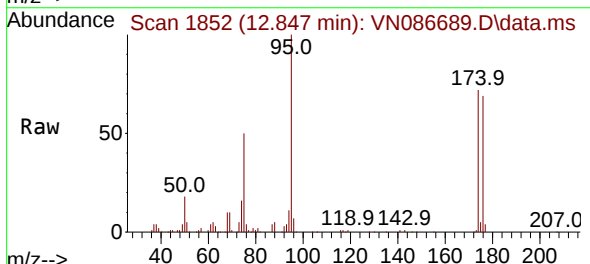
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

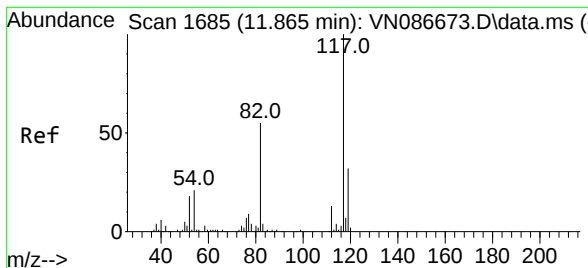
Tgt Ion: 43 Resp: 71670
Ion Ratio Lower Upper
43 100
58 17.1 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 53.955 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

Tgt Ion: 95 Resp: 167634
Ion Ratio Lower Upper
95 100
174 72.5 0.0 145.4
176 69.2 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#06

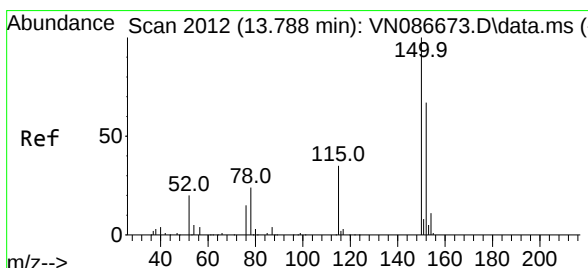
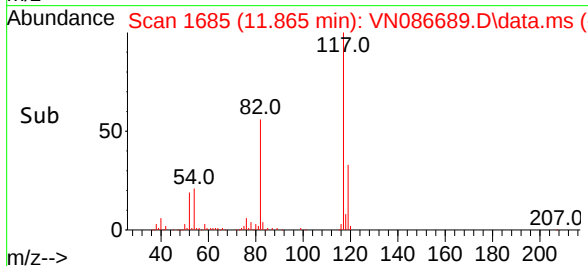
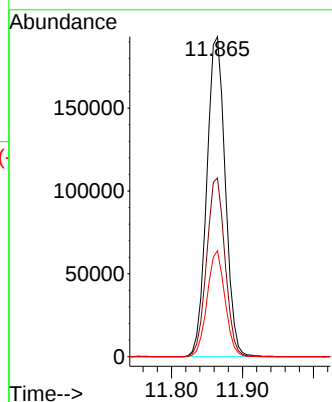
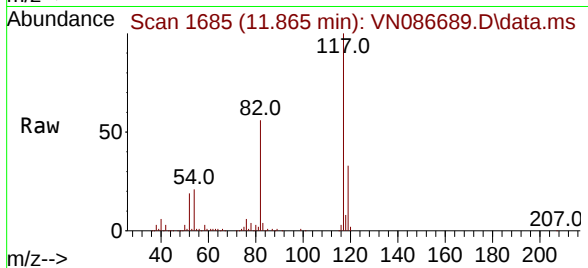
Tgt Ion:117 Resp: 349765

Ion Ratio Lower Upper

117 100

82 55.8 44.2 66.2

119 33.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086689.D

Acq: 19 May 2025 15:03

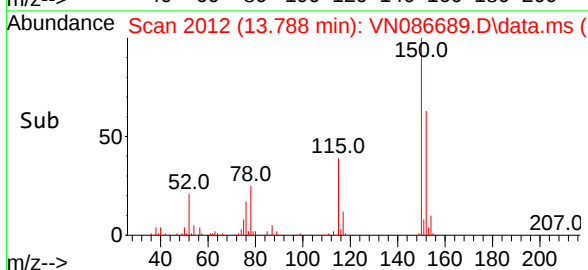
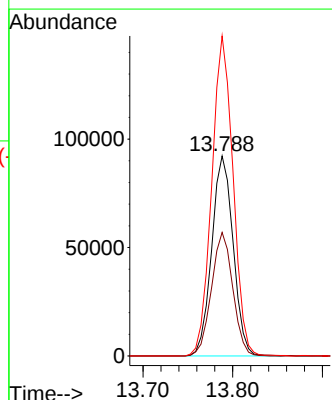
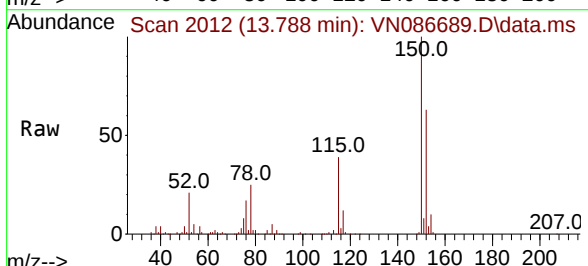
Tgt Ion:152 Resp: 152946

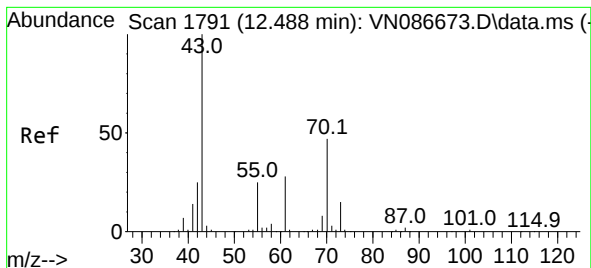
Ion Ratio Lower Upper

152 100

115 61.4 30.0 90.1

150 158.9 0.0 347.8

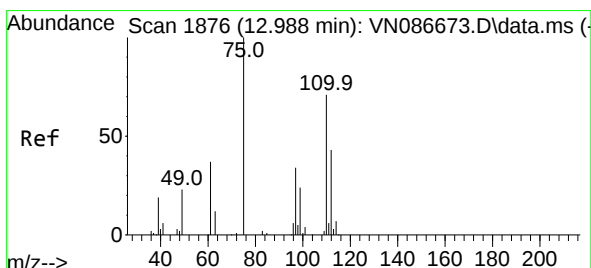
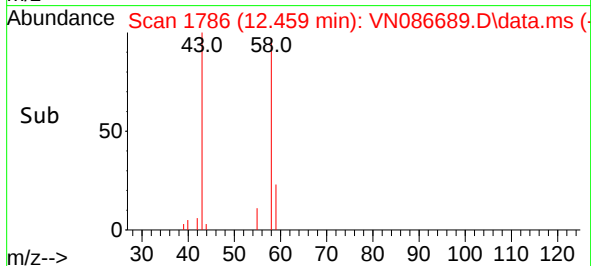
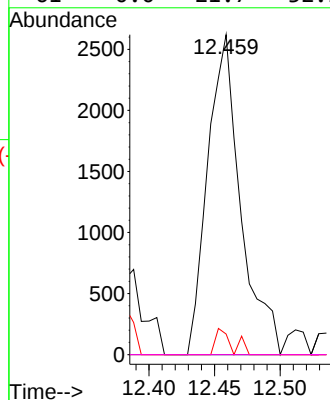
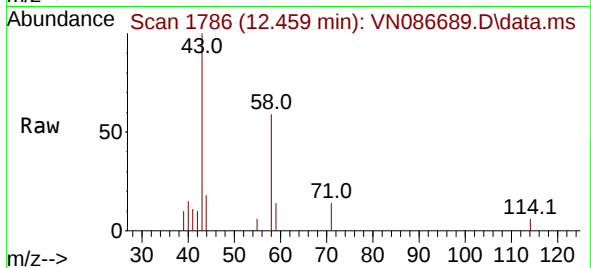




#74
N-amy1 acetate
Concen: 0.929 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

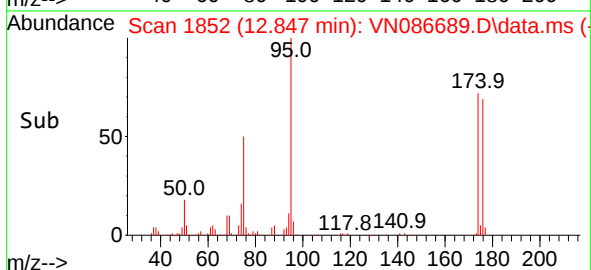
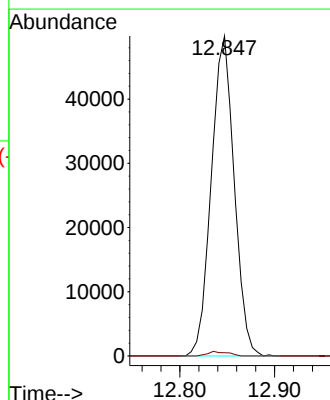
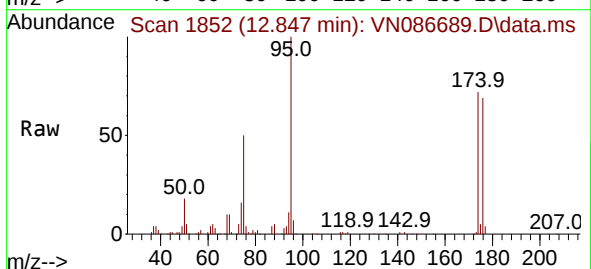
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#06

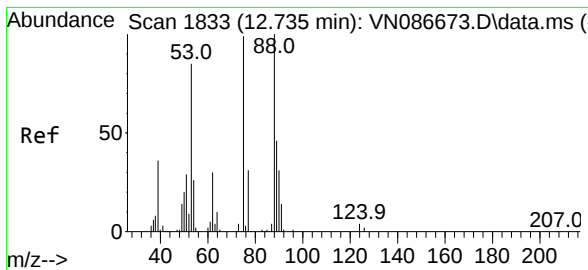
Tgt Ion: 43	Resp: 4583
Ion Ratio	Lower Upper
43 100	
70 0.0	37.9 56.9#
55 4.1	20.5 30.7#
61 0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.228 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086689.D
Acq: 19 May 2025 15:03

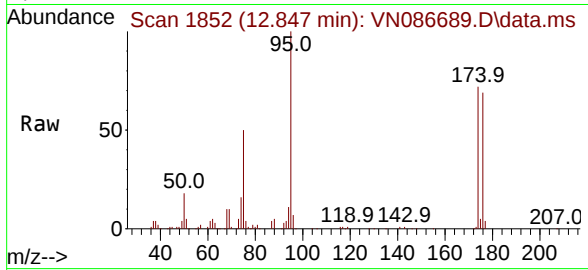
Tgt Ion: 75	Resp: 83805
Ion Ratio	Lower Upper
75 100	
77 1.3	96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.143 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086689.D
 Acq: 19 May 2025 15:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#06



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	70.4	105.6#
89	0.0	32.4	48.6#

