

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086700.D
 Acq On : 19 May 2025 19:30
 Operator : JC\MD
 Sample : PB168034ZHE#17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#17

Quant Time: May 20 03:24:07 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)

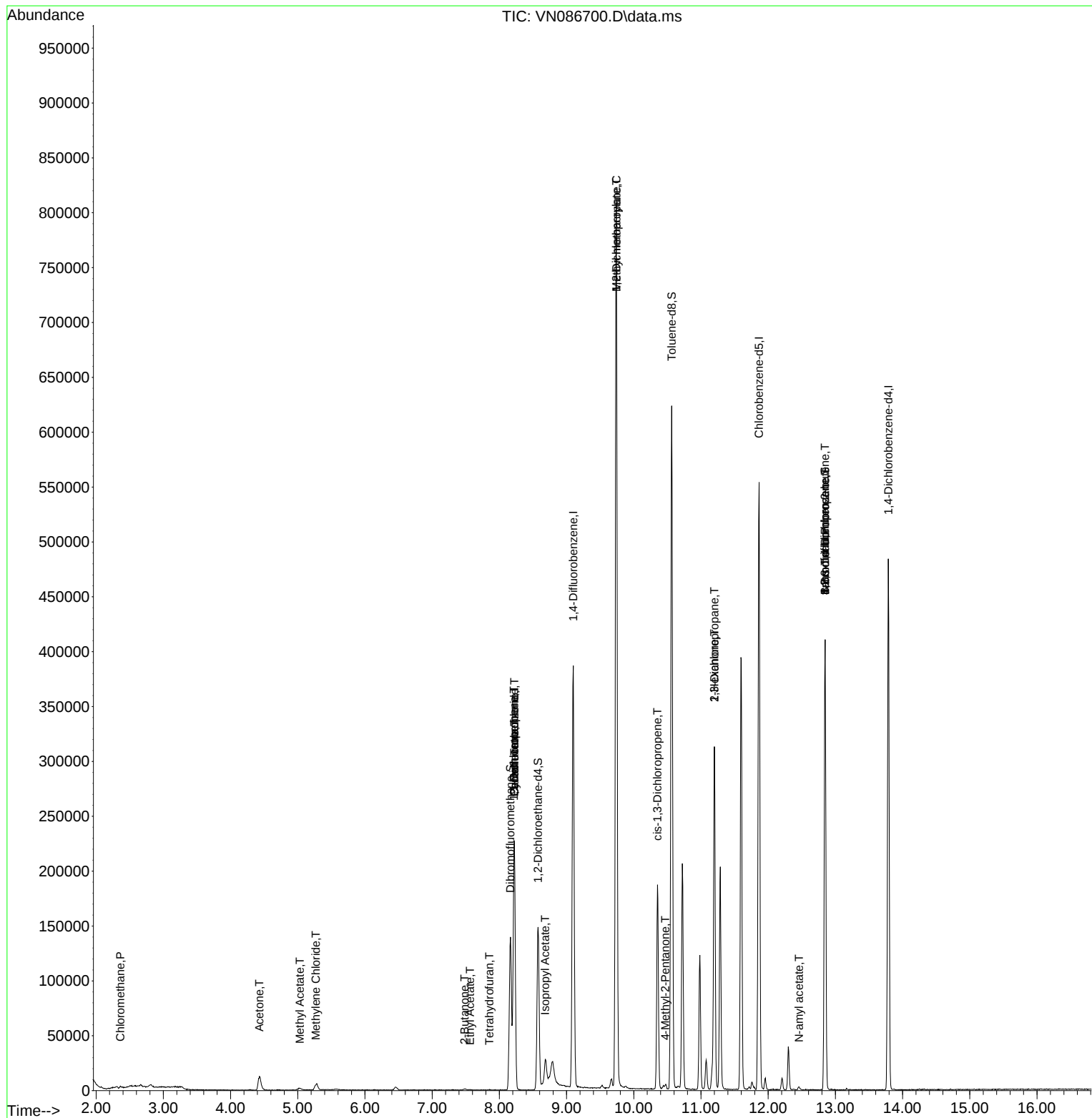
Internal Standards						
1) Pentafluorobenzene	8.224	168	168472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336891	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	328755	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133363	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123067	52.864	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 105.720%		
35) Dibromofluoromethane	8.165	113	104020	51.846	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 103.700%		
50) Toluene-d8	10.565	98	440554	52.987	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.980%		
62) 4-Bromofluorobenzene	12.847	95	156004	53.140	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 106.280%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	852	0.310	ug/l	100
16) Acetone	4.430	43	25186	28.922	ug/l	98
18) Methyl Acetate	5.030	43	4331	1.777	ug/l #	66
20) Methylene Chloride	5.271	84	4584	1.995	ug/l	87
25) 2-Butanone	7.483	43	2266	1.684	ug/l #	88
29) Tetrahydrofuran	7.853	42	537	0.611	ug/l #	30
31) Cyclohexane	8.224	56	3731	1.068	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14079	4.757	ug/l #	48
37) Ethyl Acetate	7.565	43	861	0.288	ug/l #	67
38) Carbon Tetrachloride	8.224	117	17120	5.871	ug/l #	16
43) Isopropyl Acetate	8.682	43	39649	6.616	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1093	0.477	ug/l #	42
48) Methyl methacrylate	9.741	41	71139	30.634	ug/l #	37
51) 4-Methyl-2-Pentanone	10.471	43	3405	1.127	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	35504	9.634	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	3142	0.815	ug/l #	42
59) 2-Hexanone	11.200	43	58110	26.330	ug/l #	40
71) Bromoform	12.847	173	748	0.452	ug/l #	1
74) N-amyl acetate	12.459	43	3088	0.718	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	75051	24.883	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75051	62.797	ug/l #	15

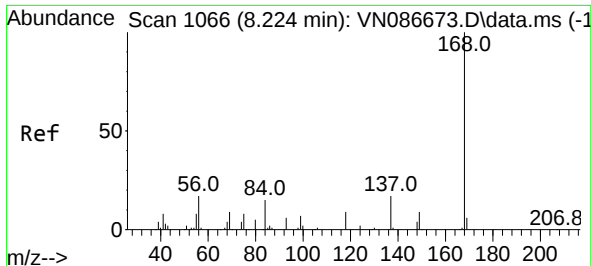
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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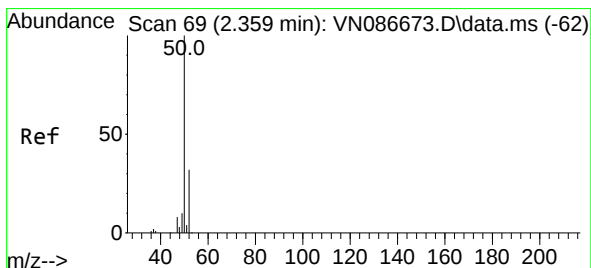
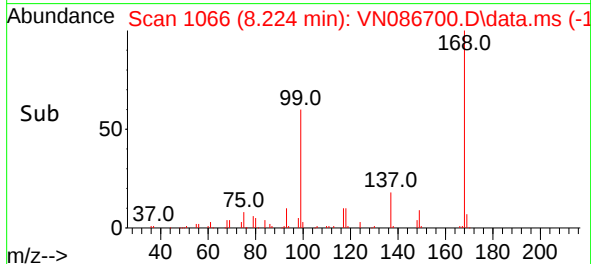
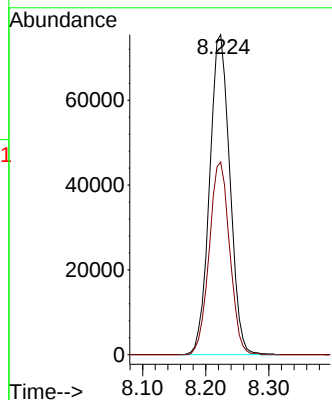
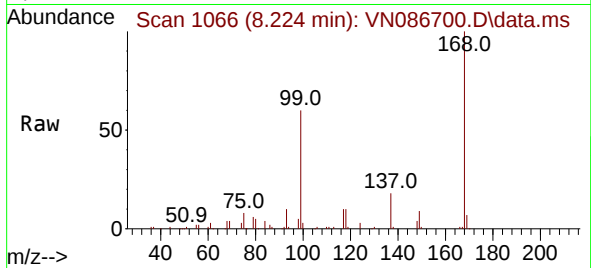




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

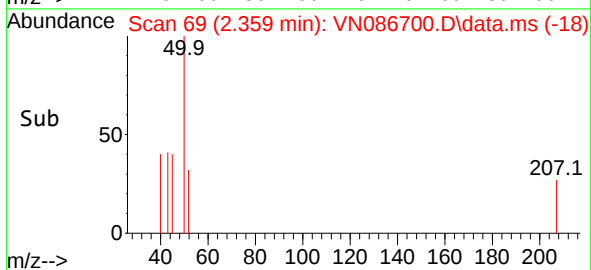
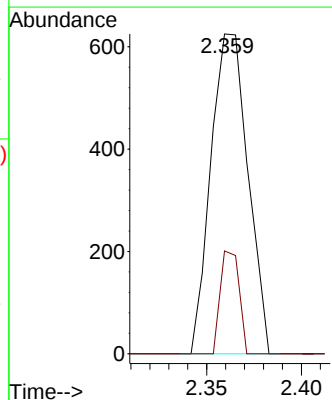
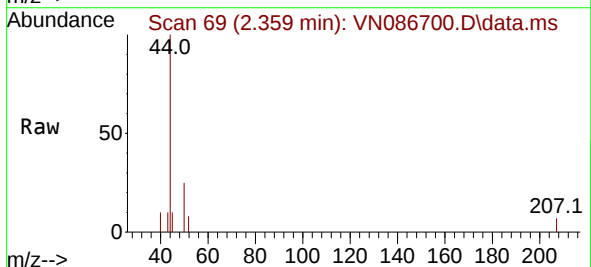
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

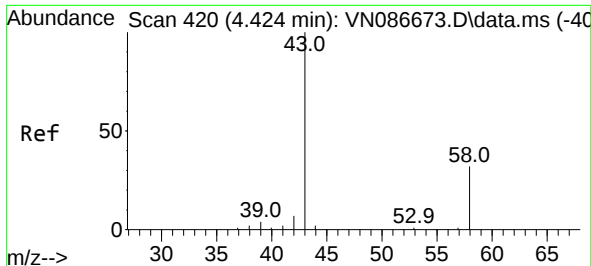
Tgt Ion:168 Resp: 168472
Ion Ratio Lower Upper
168 100
99 60.2 47.0 70.4



#3
Chloromethane
Concen: 0.310 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion: 50 Resp: 852
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9





#16

Acetone

Concen: 28.922 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

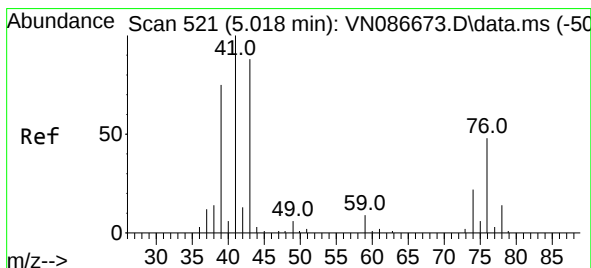
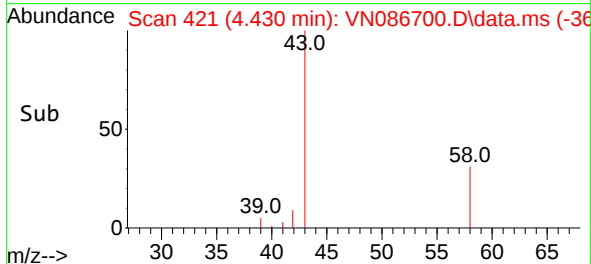
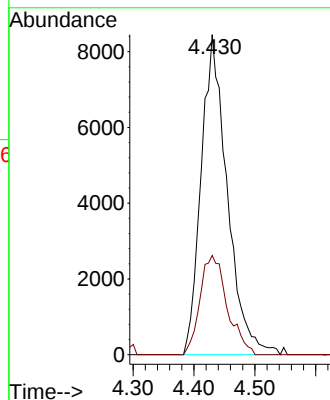
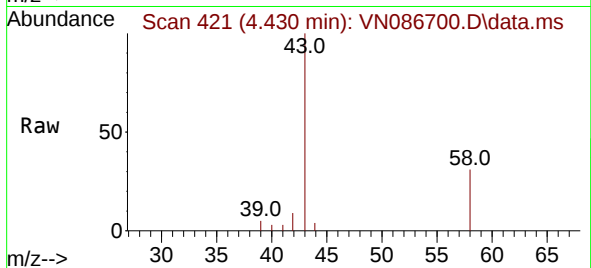
PB168034ZHE#17

Tgt Ion: 43 Resp: 25186

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.6



#18

Methyl Acetate

Concen: 1.777 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN086700.D

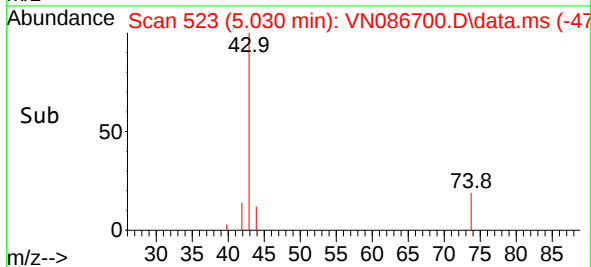
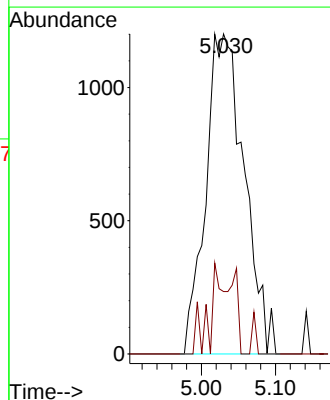
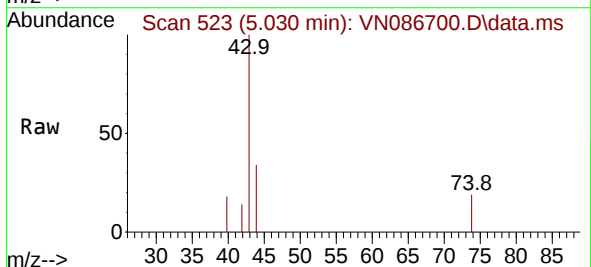
Acq: 19 May 2025 19:30

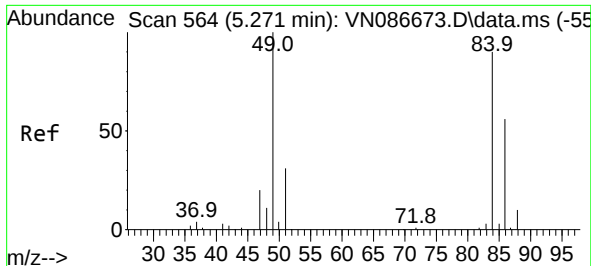
Tgt Ion: 43 Resp: 4331

Ion Ratio Lower Upper

43 100

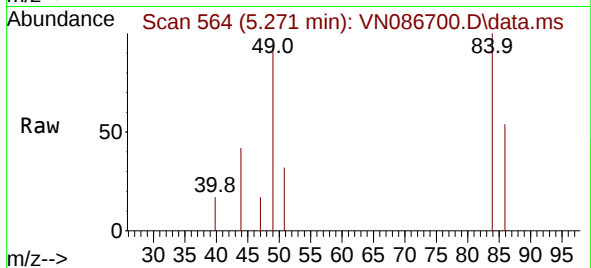
74 8.2 20.5 30.7#



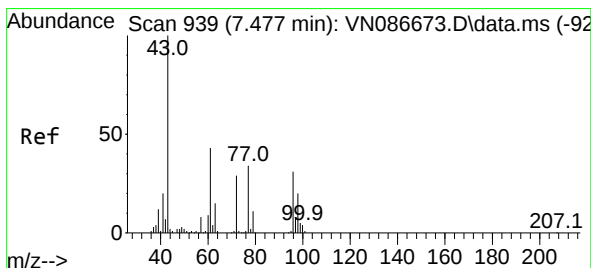
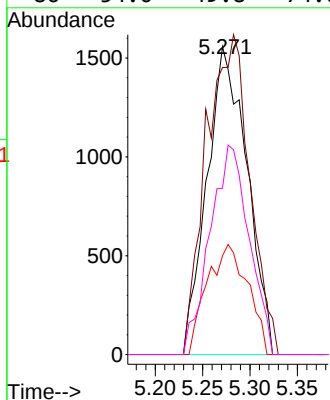


#20
Methylene Chloride
Concen: 1.995 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

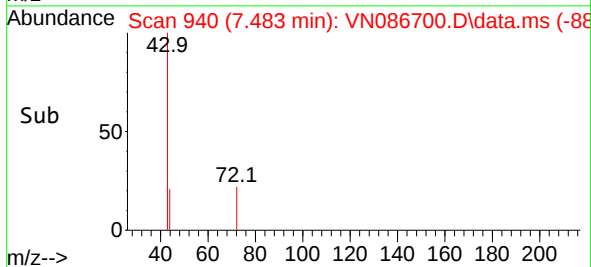
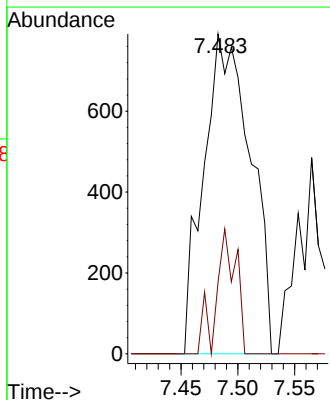
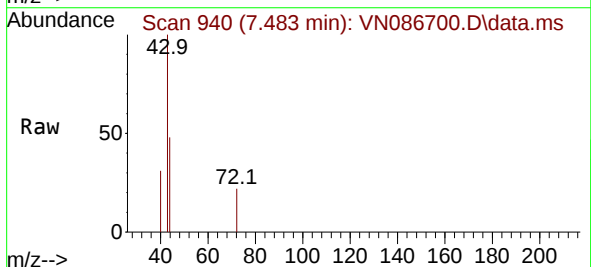


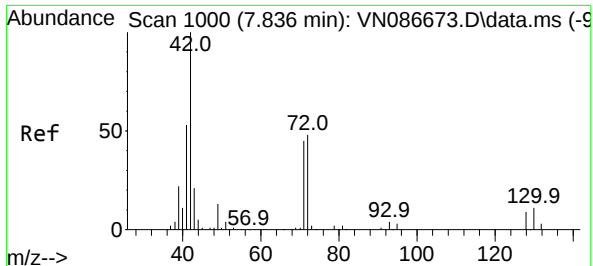
Tgt Ion:	84	Resp:	4584
Ion	Ratio	Lower	Upper
84	100		
49	93.3	88.8	133.2
51	32.1	27.8	41.6
86	54.0	49.8	74.6



#25
2-Butanone
Concen: 1.684 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion:	43	Resp:	2266
Ion	Ratio	Lower	Upper
43	100		
72	22.4	23.1	34.7#





#29

Tetrahydrofuran

Concen: 0.611 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.018 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#17

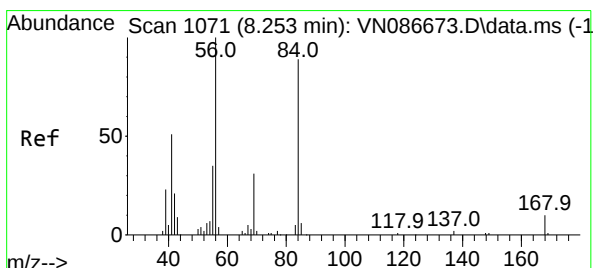
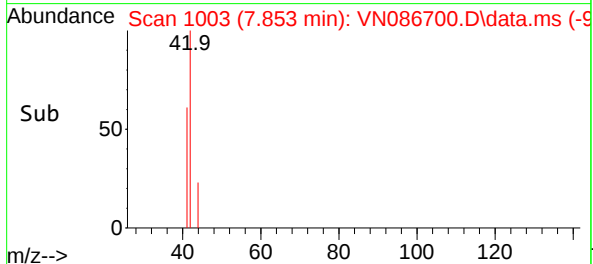
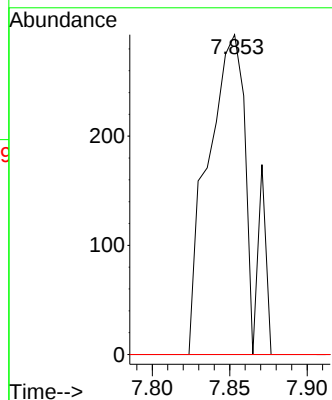
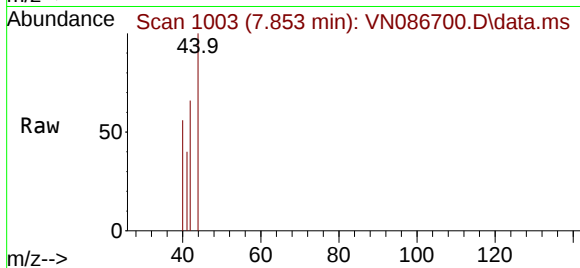
Tgt Ion: 42 Resp: 537

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.068 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

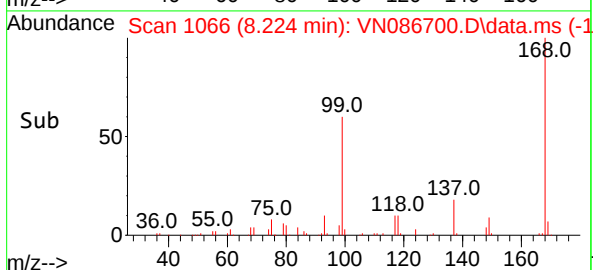
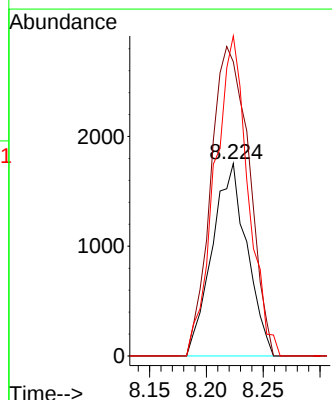
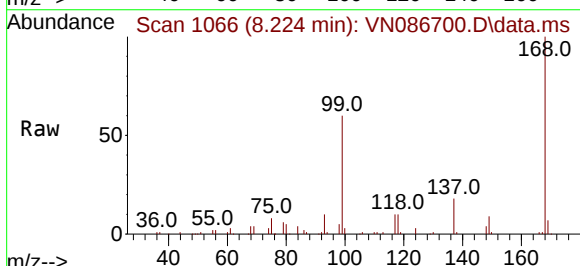
Tgt Ion: 56 Resp: 3731

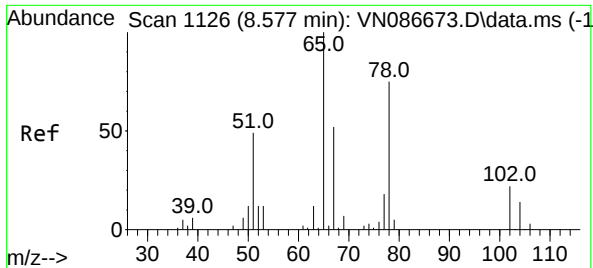
Ion Ratio Lower Upper

56 100

69 152.8 25.0 37.6#

84 166.2 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 52.864 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

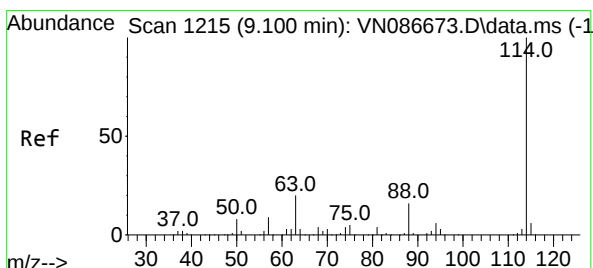
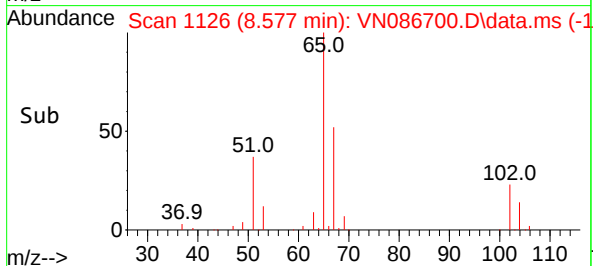
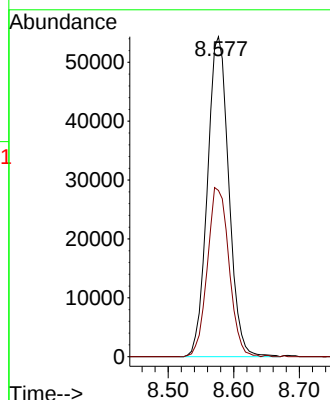
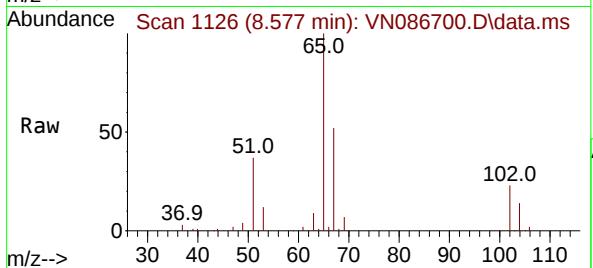
PB168034ZHE#17

Tgt Ion: 65 Resp: 123067

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# 1215

Delta R.T. -0.000 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

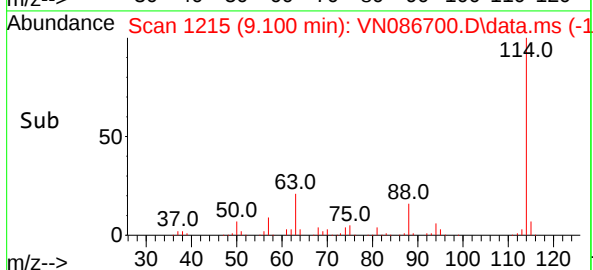
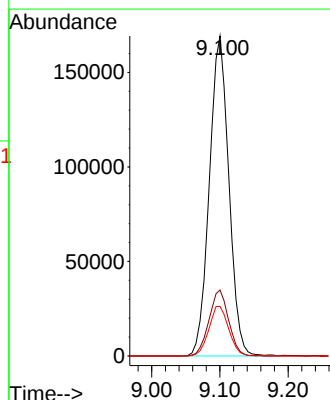
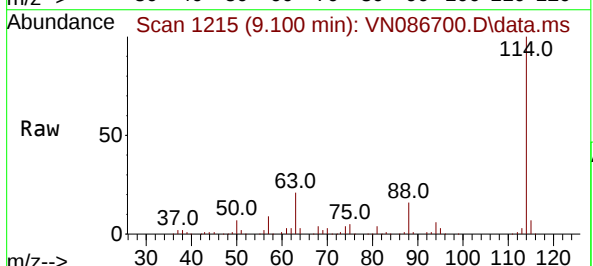
Tgt Ion: 114 Resp: 336891

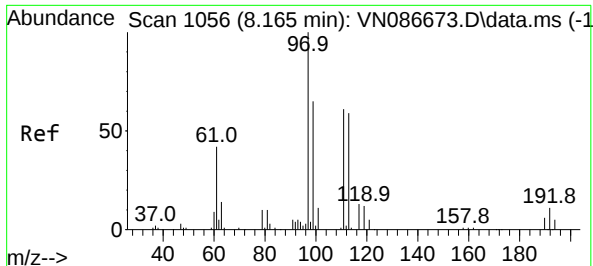
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.2

88 15.5 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.846 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#17

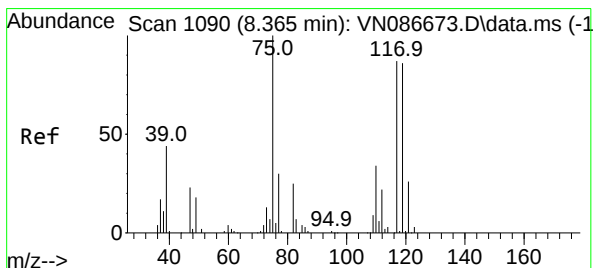
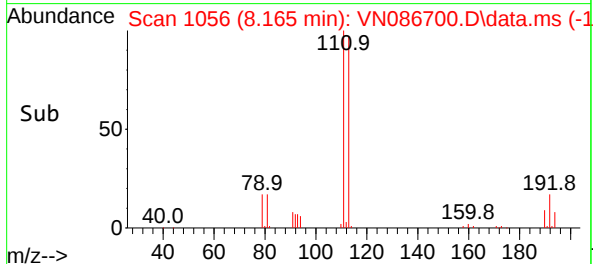
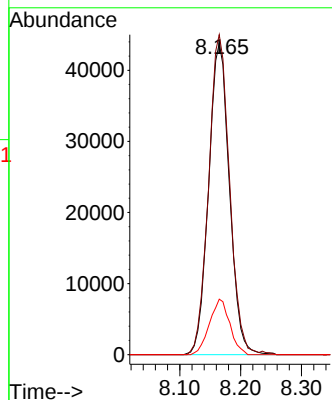
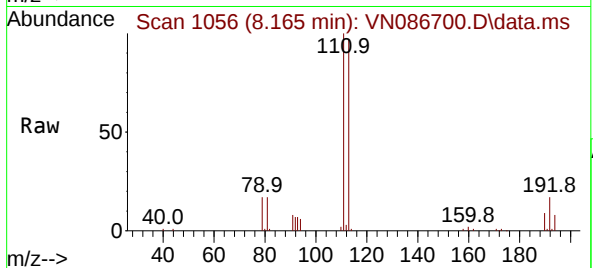
Tgt Ion:113 Resp: 104020

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.2

192 17.4 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.757 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

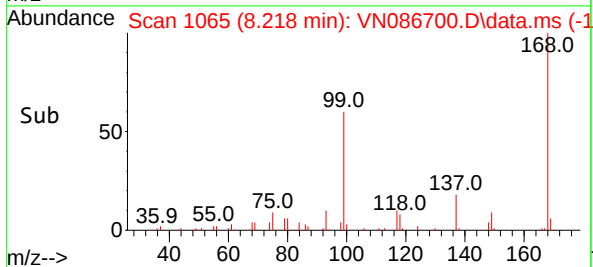
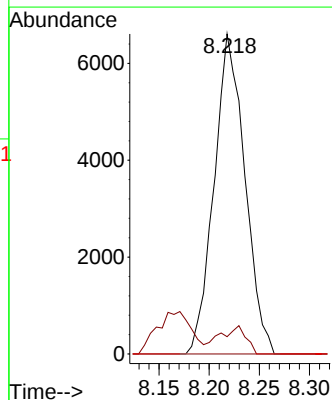
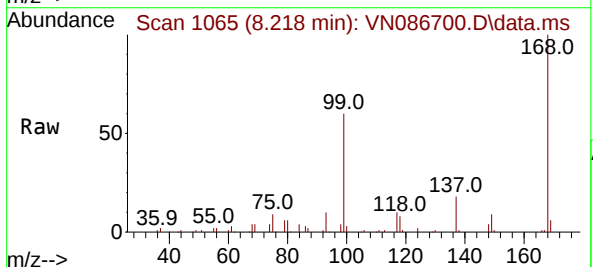
Tgt Ion: 75 Resp: 14079

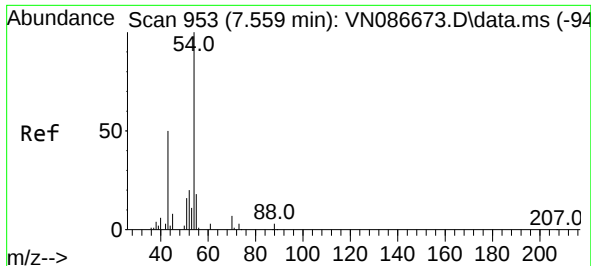
Ion Ratio Lower Upper

75 100

110 7.6 17.5 52.5#

77 0.0 25.1 37.7#

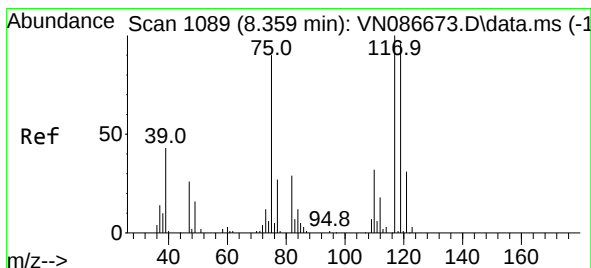
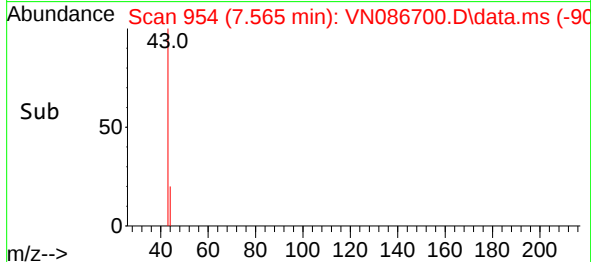
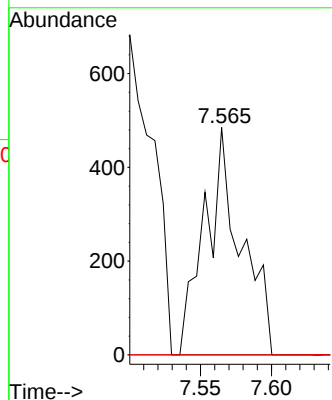
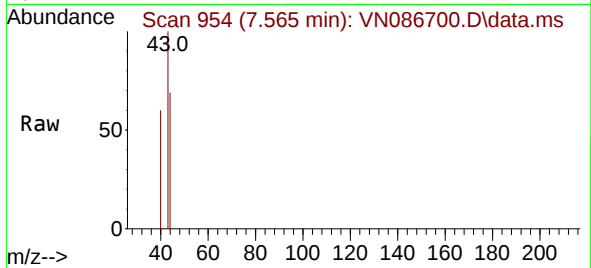




#37
Ethyl Acetate
Concen: 0.288 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

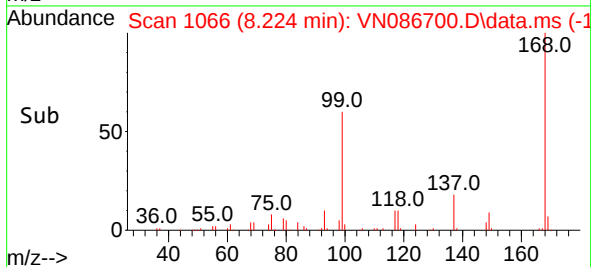
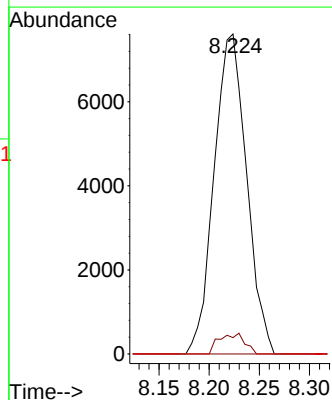
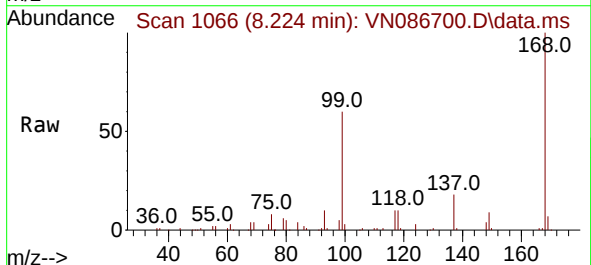
Instrument :
MSVOA_N
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PB168034ZHE#17

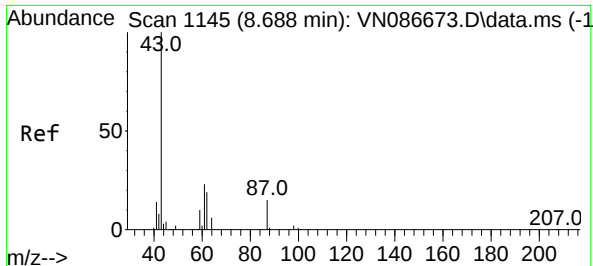
Tgt Ion: 43 Resp: 861
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 5.871 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion: 117 Resp: 17120
Ion Ratio Lower Upper
117 100
119 5.1 77.0 115.6#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 6.616 ug/l

RT: 8.682 min Scan# 1145

Delta R.T. -0.006 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#17

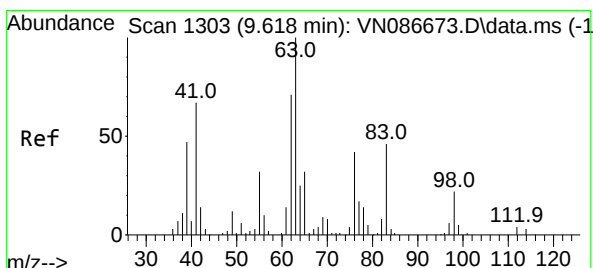
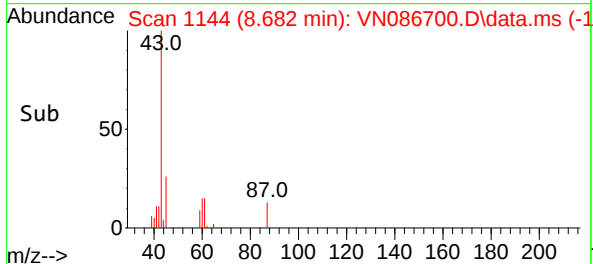
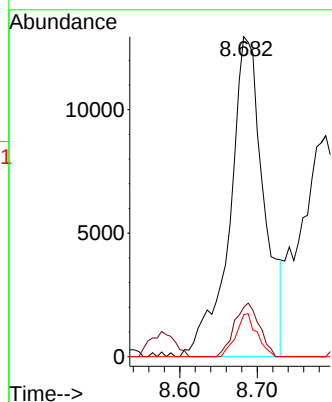
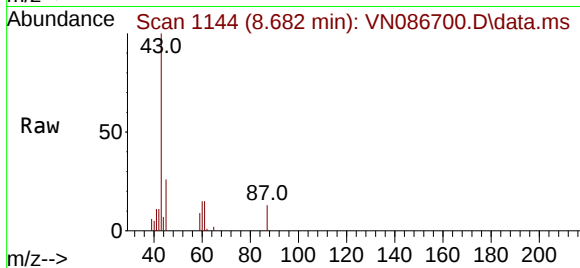
Tgt Ion: 43 Resp: 39649

Ion Ratio Lower Upper

43 100

61 12.3 21.4 32.2#

87 8.2 11.1 16.7#



#45

1,2-Dichloropropane

Concen: 0.477 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086700.D

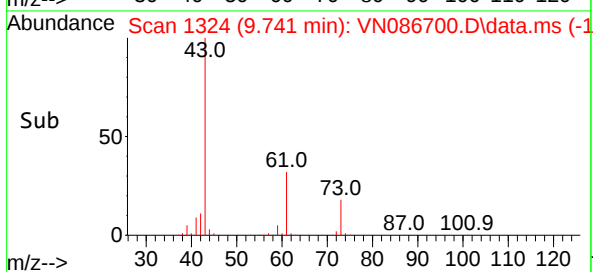
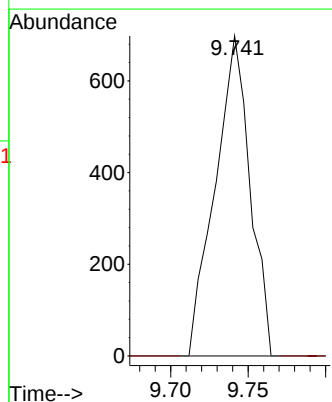
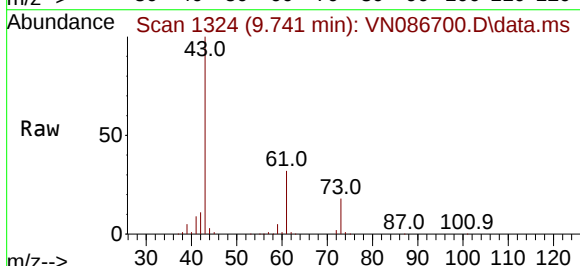
Acq: 19 May 2025 19:30

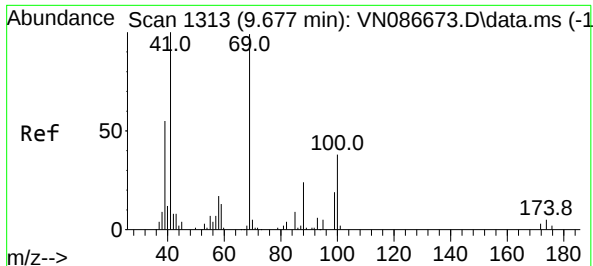
Tgt Ion: 63 Resp: 1093

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#

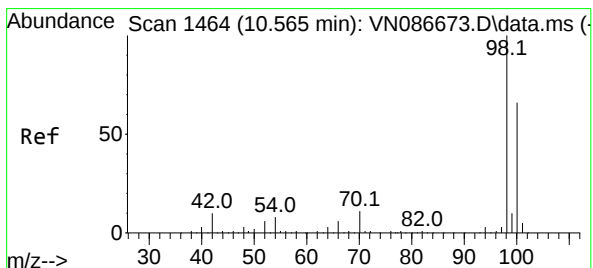
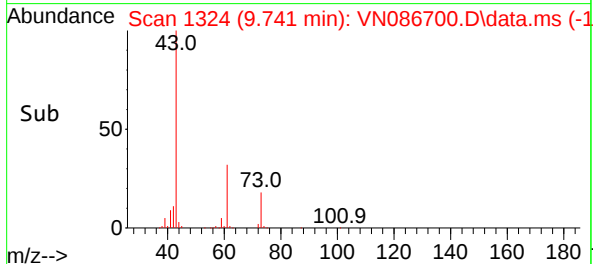
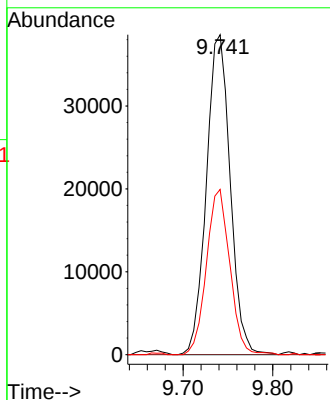
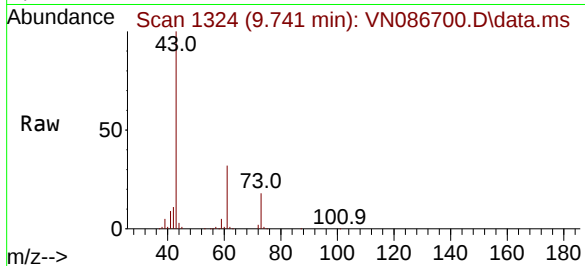




#48
Methyl methacrylate
Concen: 30.634 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.065 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

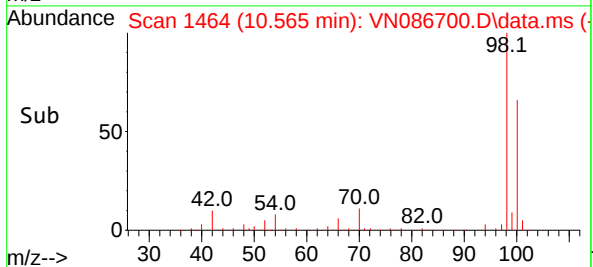
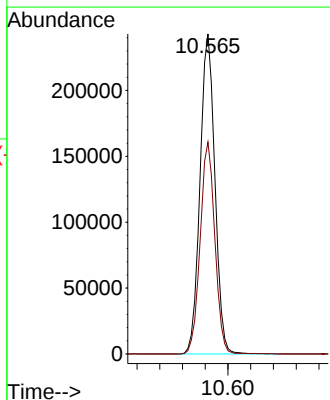
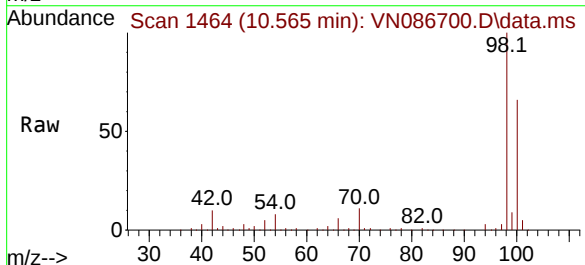
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

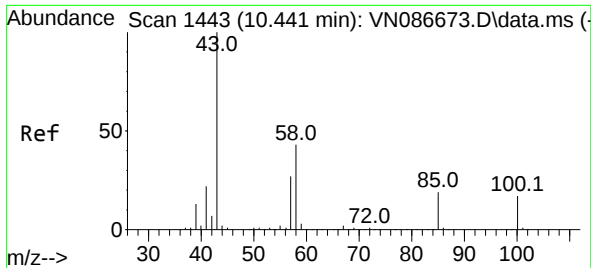
Tgt Ion: 41 Resp: 71139
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 50.7 44.1 66.1



#50
Toluene-d8
Concen: 52.987 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion: 98 Resp: 440554
Ion Ratio Lower Upper
98 100
100 65.4 52.9 79.3

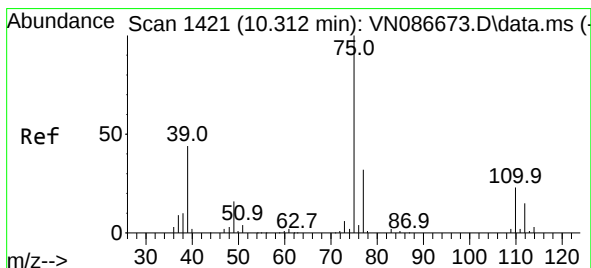
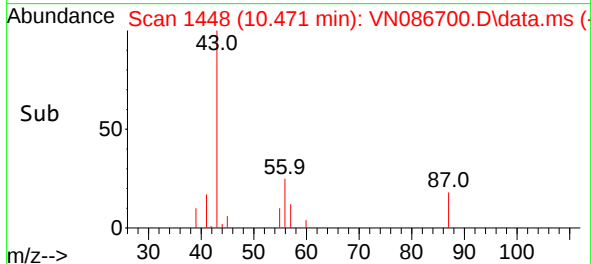
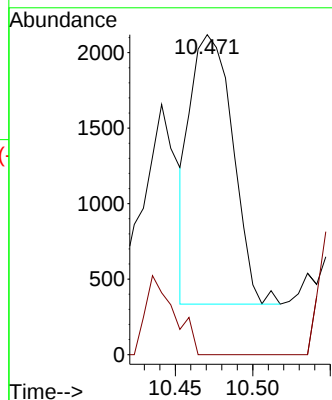
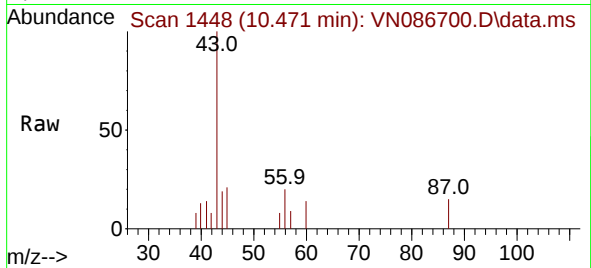




#51
4-Methyl-2-Pentanone
Concen: 1.127 ug/l
RT: 10.471 min Scan# 1443
Delta R.T. 0.029 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

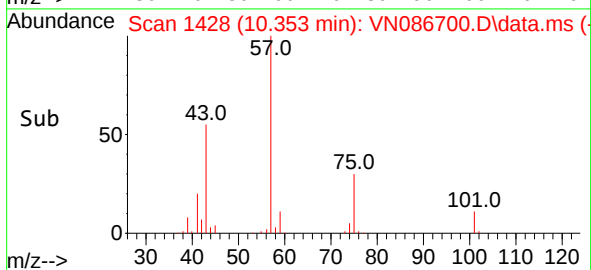
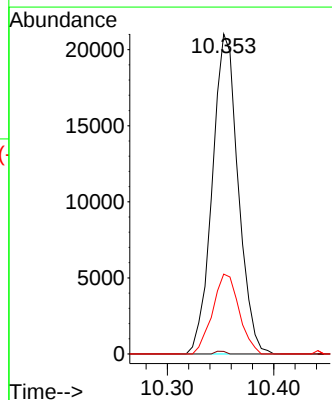
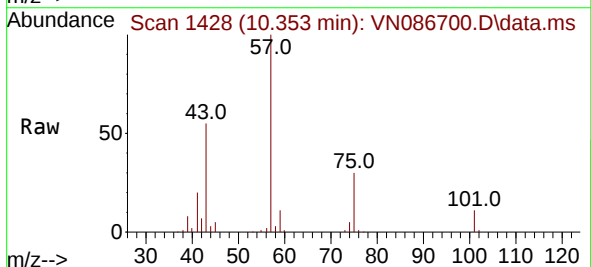
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

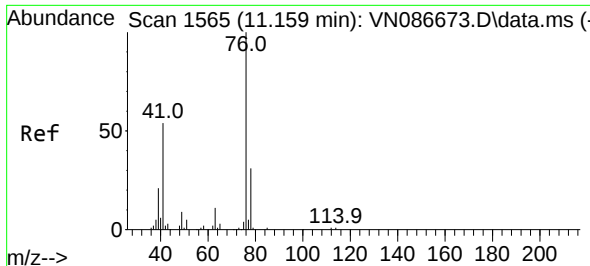
Tgt Ion: 43 Resp: 3405
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 9.634 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion: 75 Resp: 35504
Ion Ratio Lower Upper
75 100
77 0.8 25.3 37.9#
39 25.0 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.815 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

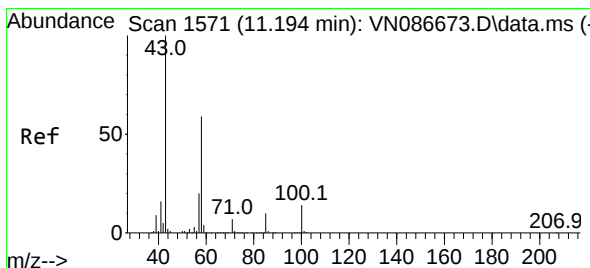
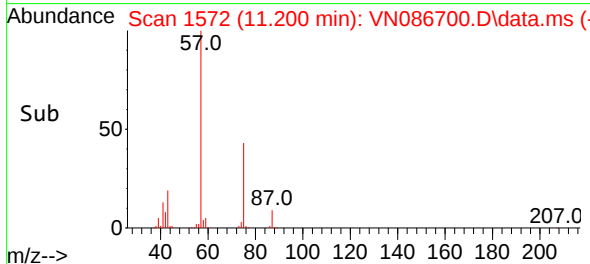
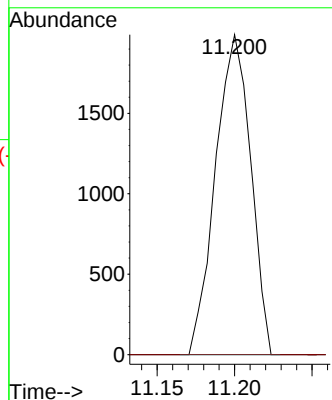
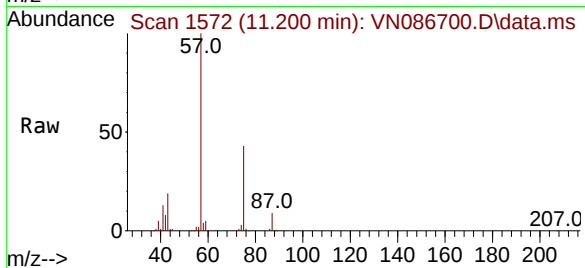
PB168034ZHE#17

Tgt Ion: 76 Resp: 3142

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 26.330 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086700.D

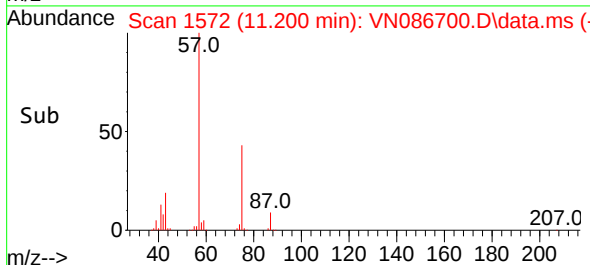
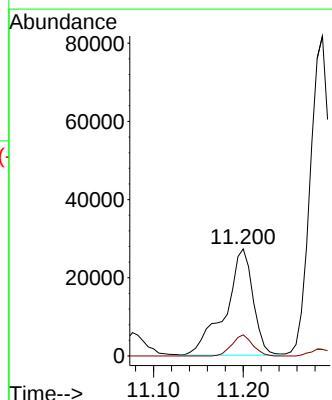
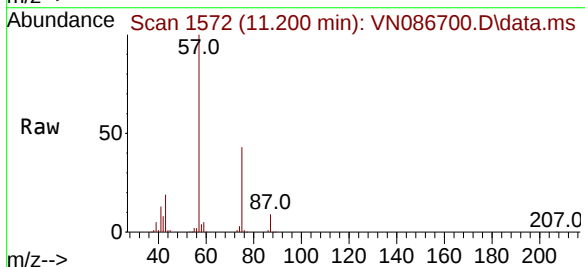
Acq: 19 May 2025 19:30

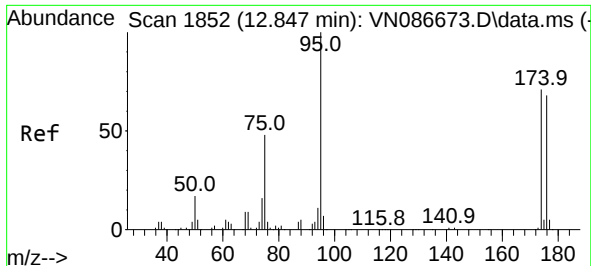
Tgt Ion: 43 Resp: 58110

Ion Ratio Lower Upper

43 100

58 14.8 29.8 89.5#

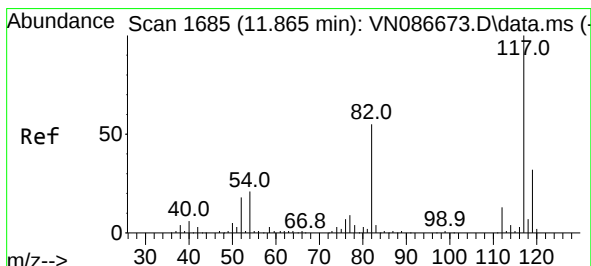
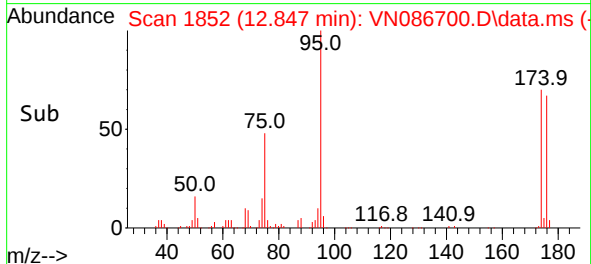
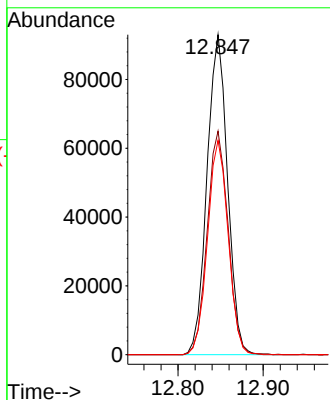
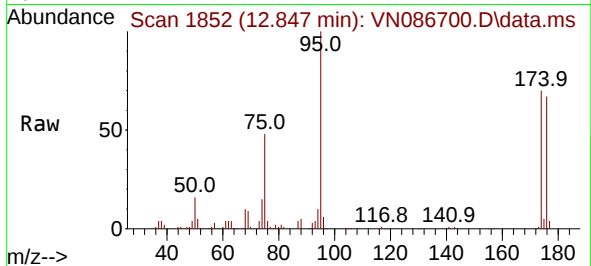




#62
4-Bromofluorobenzene
Concen: 53.140 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

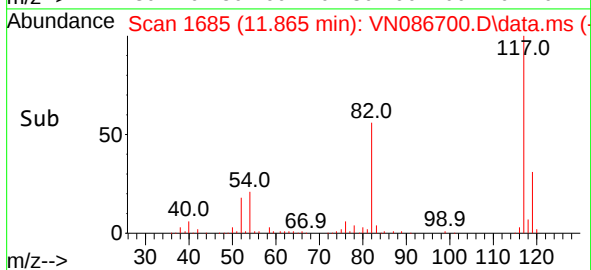
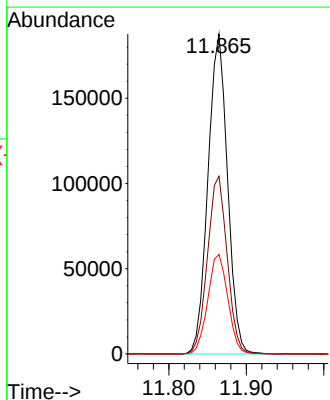
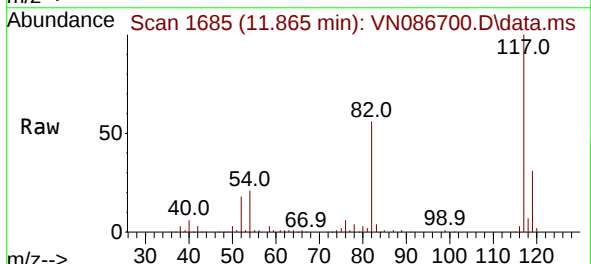
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

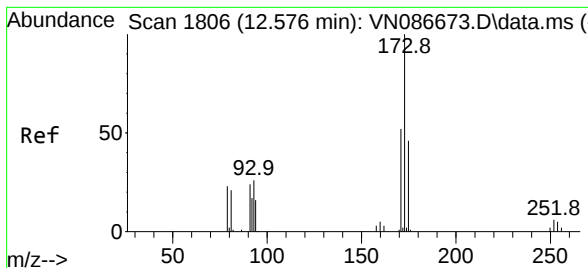
Tgt Ion: 95 Resp: 156004
Ion Ratio Lower Upper
95 100
174 71.1 0.0 145.4
176 67.2 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

Tgt Ion: 117 Resp: 328755
Ion Ratio Lower Upper
117 100
82 55.6 44.2 66.2
119 31.1 25.4 38.2





#71

Bromoform

Concen: 0.452 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086700.D

Acq: 19 May 2025 19:30

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#17

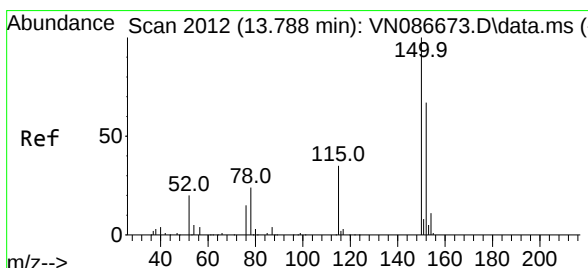
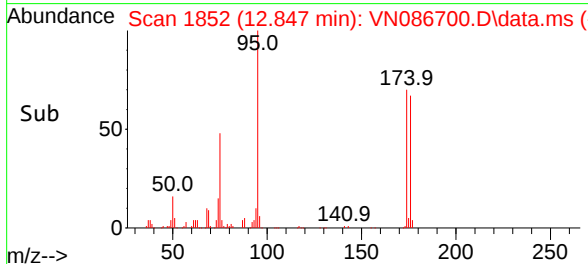
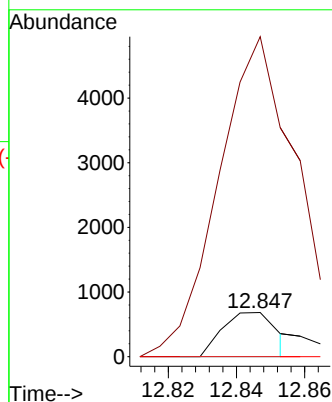
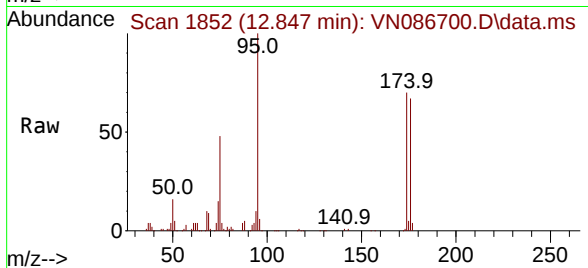
Tgt Ion:173 Resp: 748

Ion Ratio Lower Upper

173 100

175 832.2 23.4 70.2#

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: VN086700.D

Acq: 19 May 2025 19:30

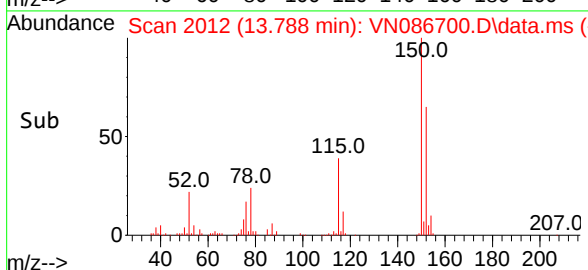
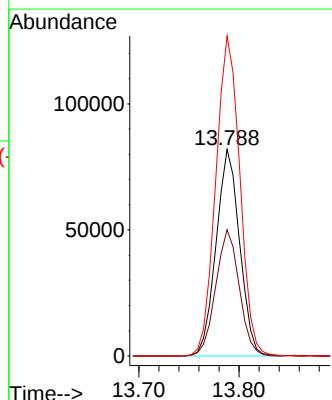
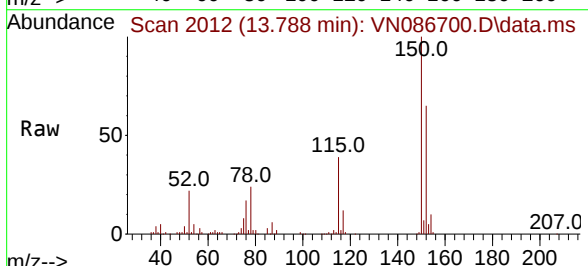
Tgt Ion:152 Resp: 133363

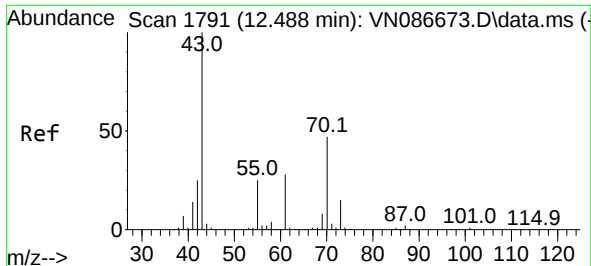
Ion Ratio Lower Upper

152 100

115 61.1 30.0 90.1

150 158.7 0.0 347.8

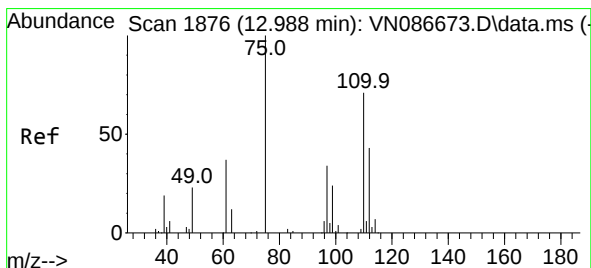
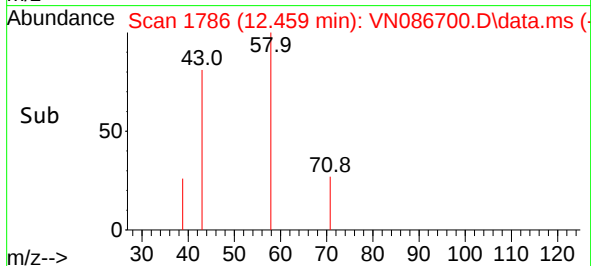
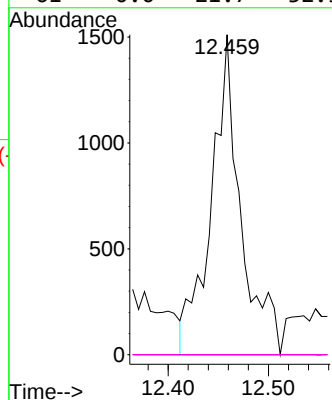
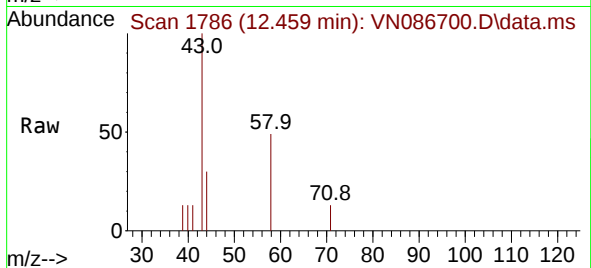




#74
N-amy1 acetate
Concen: 0.718 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

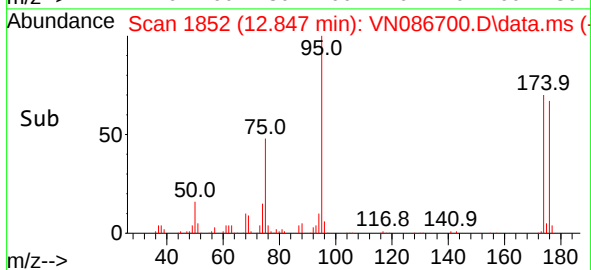
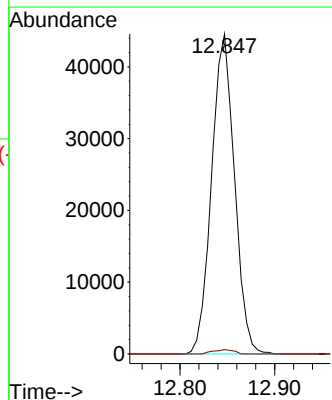
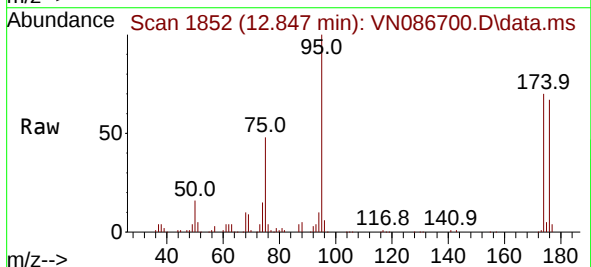
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#17

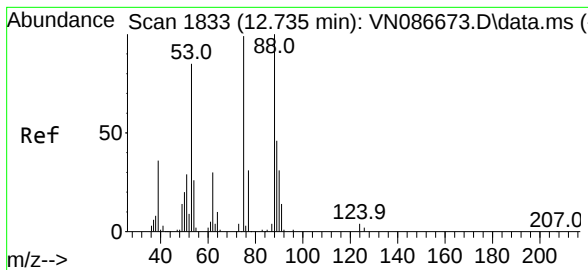
Tgt Ion: 43	Resp: 3088
Ion Ratio	Lower Upper
43 100	
70 0.0	37.9 56.9#
55 0.0	20.5 30.7#
61 0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.883 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086700.D
Acq: 19 May 2025 19:30

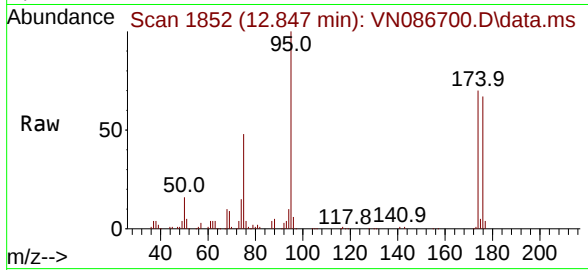
Tgt Ion: 75	Resp: 75051
Ion Ratio	Lower Upper
75 100	
77 1.2	96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.797 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086700.D
 Acq: 19 May 2025 19:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#17



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

