

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086697.D
 Acq On : 19 May 2025 18:17
 Operator : JC\MD
 Sample : PB168034ZHE#14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#14

Quant Time: May 20 03:22:55 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)

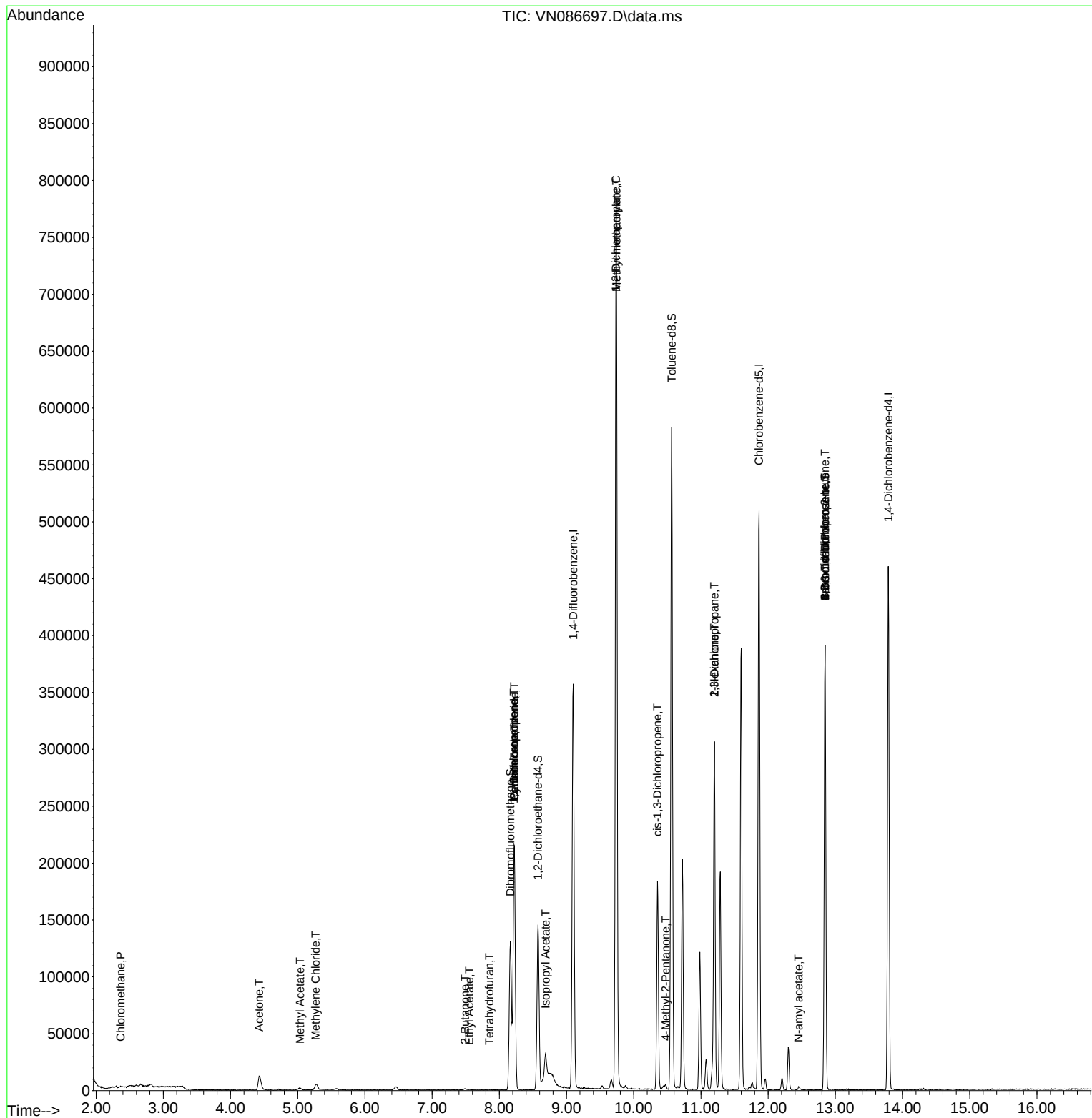
Internal Standards						
1) Pentafluorobenzene	8.224	168	159903	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318174	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	310923	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118224	53.506	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.020%			
35) Dibromofluoromethane	8.165	113	99274	52.391	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.780%			
50) Toluene-d8	10.565	98	412544	52.537	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.080%			
62) 4-Bromofluorobenzene	12.847	95	144561	52.138	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.280%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	899	0.344	ug/l #	42
16) Acetone	4.424	43	26254	31.764	ug/l	96
18) Methyl Acetate	5.036	43	3968	1.715	ug/l #	87
20) Methylene Chloride	5.265	84	4081	1.871	ug/l	87
25) 2-Butanone	7.489	43	2577	2.018	ug/l #	86
29) Tetrahydrofuran	7.853	42	481	0.577	ug/l #	30
31) Cyclohexane	8.224	56	3471	1.047	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13062	4.673	ug/l #	47
37) Ethyl Acetate	7.553	43	625	0.221	ug/l #	67
38) Carbon Tetrachloride	8.224	117	16128	5.856	ug/l #	17
43) Isopropyl Acetate	8.688	43	46569	8.228	ug/l #	73
45) 1,2-Dichloropropane	9.735	63	949	0.438	ug/l #	42
48) Methyl methacrylate	9.741	41	68552	31.256	ug/l #	37
51) 4-Methyl-2-Pentanone	10.477	43	6312	2.211	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	34932	10.037	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3298	0.906	ug/l #	42
59) 2-Hexanone	11.200	43	54949	26.363	ug/l #	42
71) Bromoform	12.847	173	752	0.480	ug/l #	1
74) N-amyl acetate	12.453	43	3071	0.739	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	71108	24.426	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71108	61.644	ug/l #	15

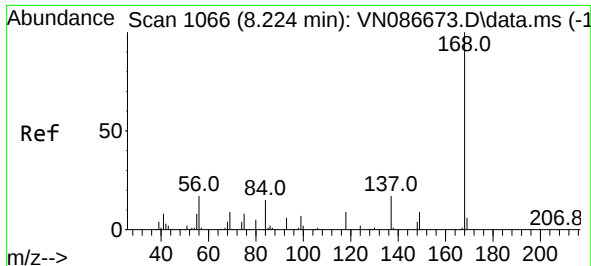
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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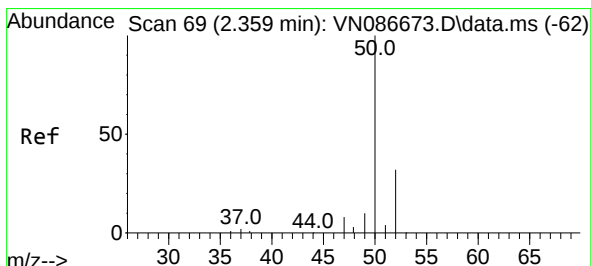
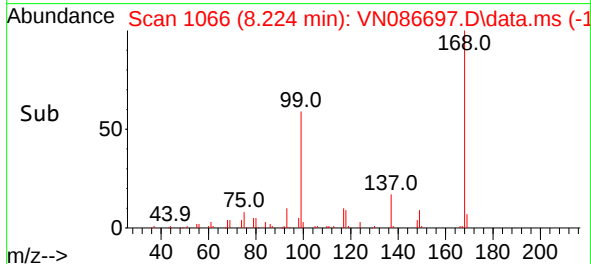
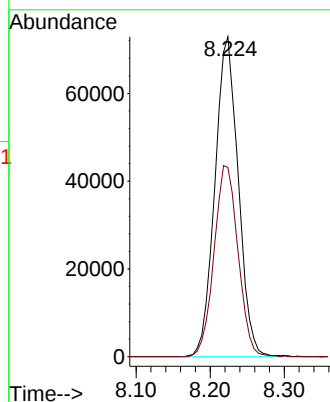
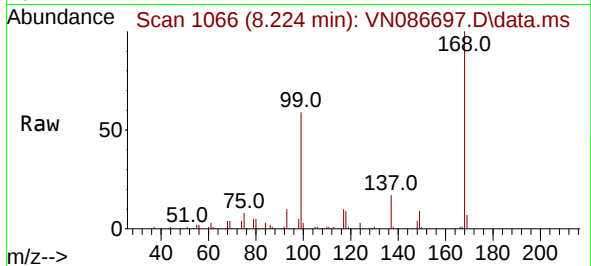




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

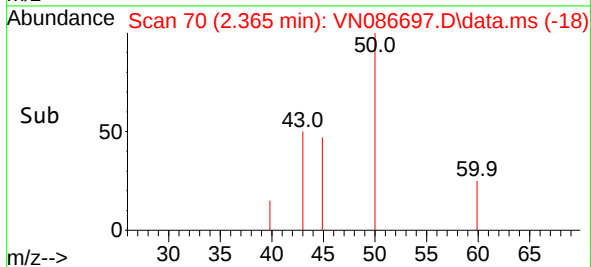
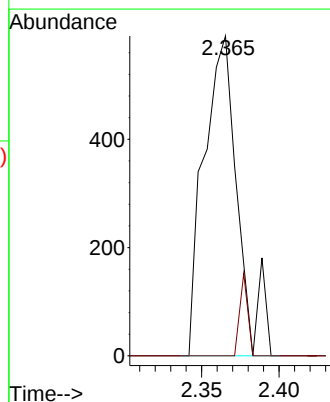
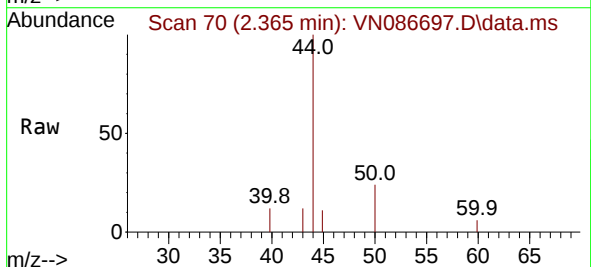
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14

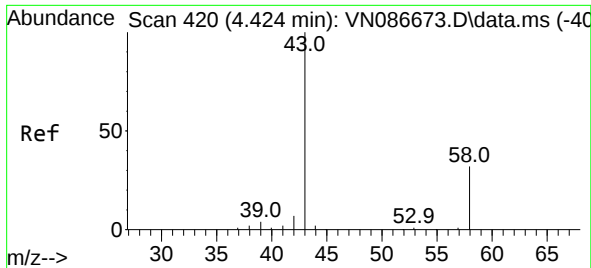
Tgt Ion:168 Resp: 159903
Ion Ratio Lower Upper
168 100
99 59.1 47.0 70.4



#3
Chloromethane
Concen: 0.344 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Tgt Ion: 50 Resp: 899
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#





#16

Acetone

Concen: 31.764 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

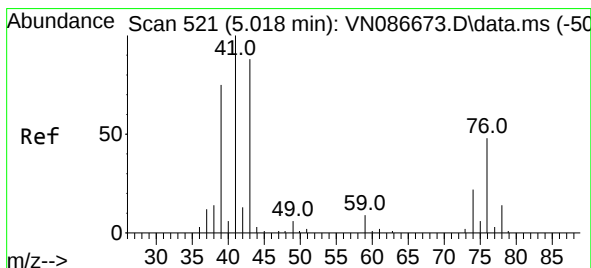
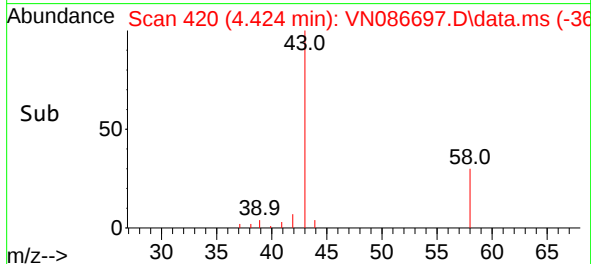
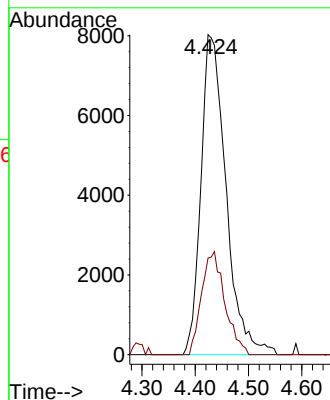
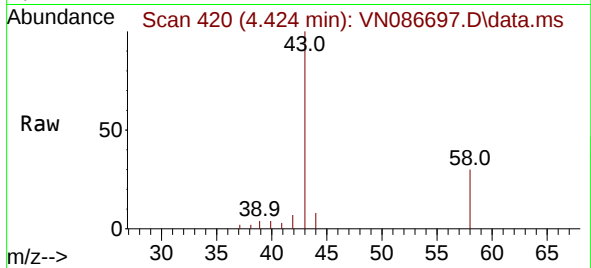
PB168034ZHE#14

Tgt Ion: 43 Resp: 26254

Ion Ratio Lower Upper

43 100

58 30.2 25.8 38.6



#18

Methyl Acetate

Concen: 1.715 ug/l

RT: 5.036 min Scan# 524

Delta R.T. 0.018 min

Lab File: VN086697.D

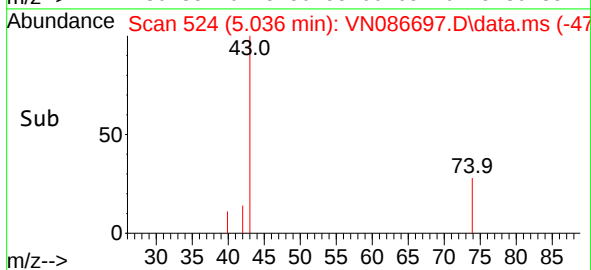
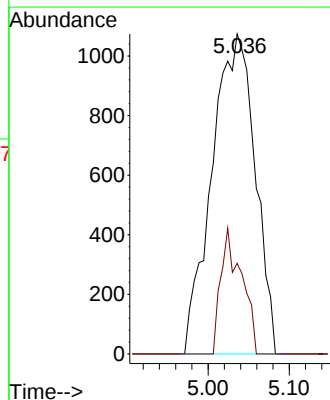
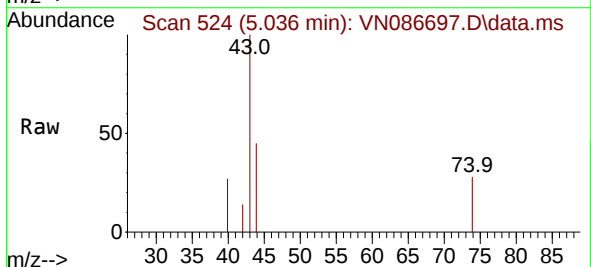
Acq: 19 May 2025 18:17

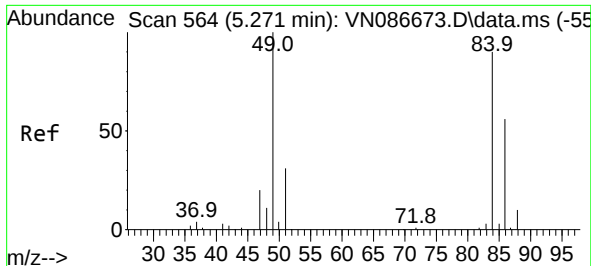
Tgt Ion: 43 Resp: 3968

Ion Ratio Lower Upper

43 100

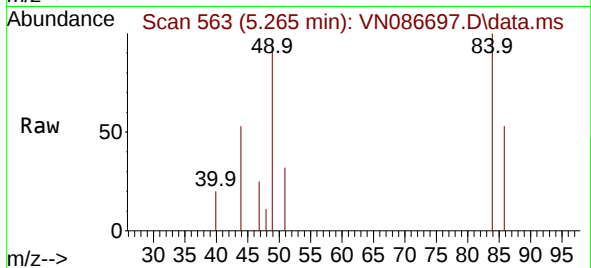
74 19.1 20.5 30.7#



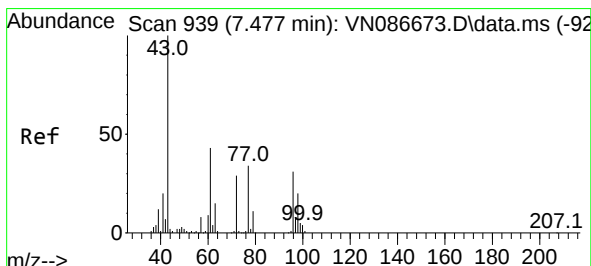
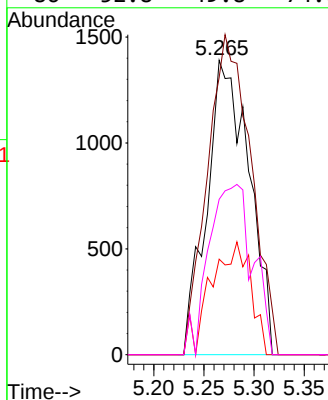
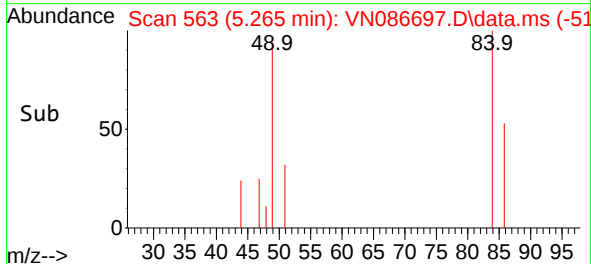


#20
Methylene Chloride
Concen: 1.871 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

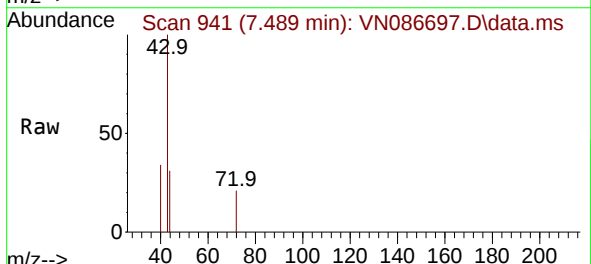
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14



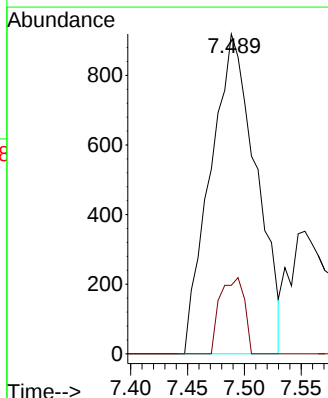
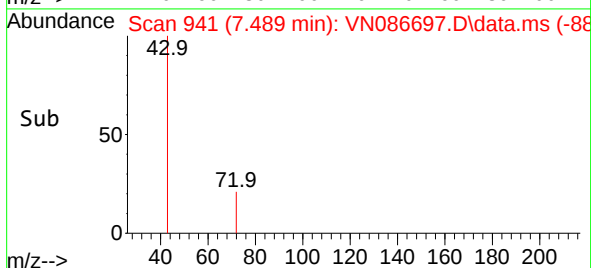
Tgt Ion: 84	Resp: 4081
Ion Ratio	Lower Upper
84 100	
49 94.2	88.8 133.2
51 32.4	27.8 41.6
86 52.8	49.8 74.6

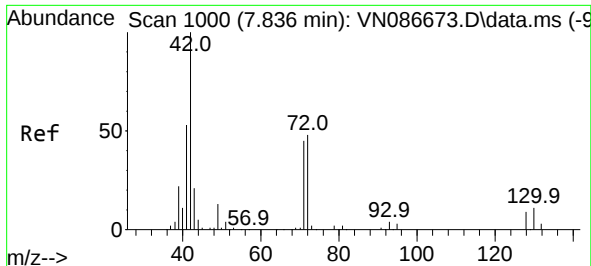


#25
2-Butanone
Concen: 2.018 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17



Tgt Ion: 43	Resp: 2577
Ion Ratio	Lower Upper
43 100	
72 21.4	23.1 34.7#





#29

Tetrahydrofuran

Concen: 0.577 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.018 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#14

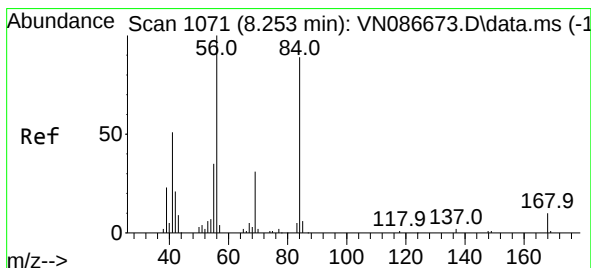
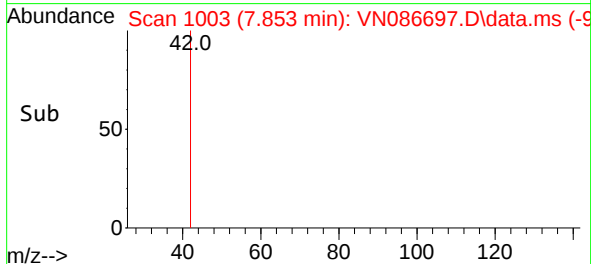
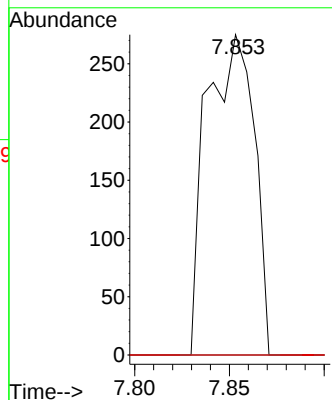
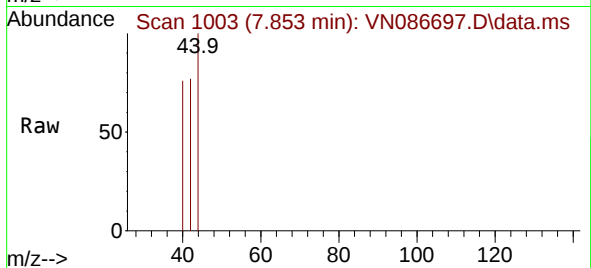
Tgt Ion: 42 Resp: 481

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.047 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

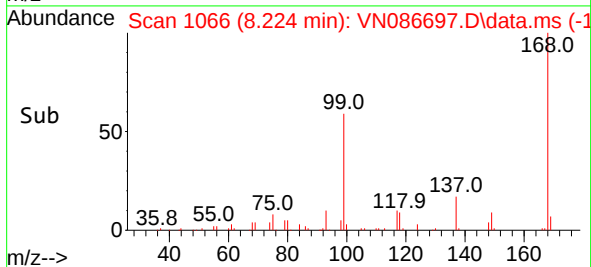
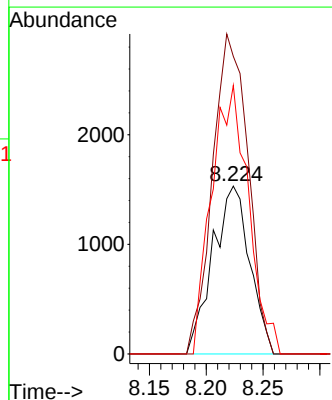
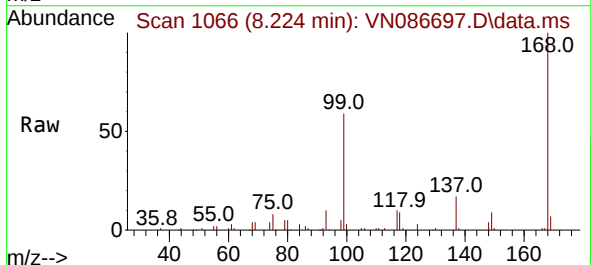
Tgt Ion: 56 Resp: 3471

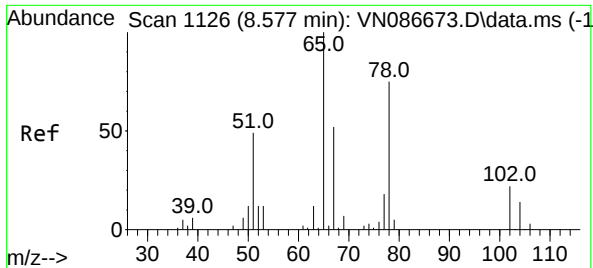
Ion Ratio Lower Upper

56 100

69 177.3 25.0 37.6#

84 160.0 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 53.506 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

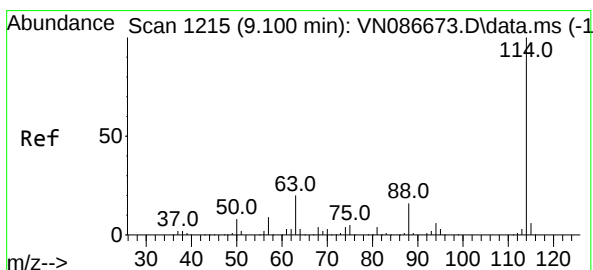
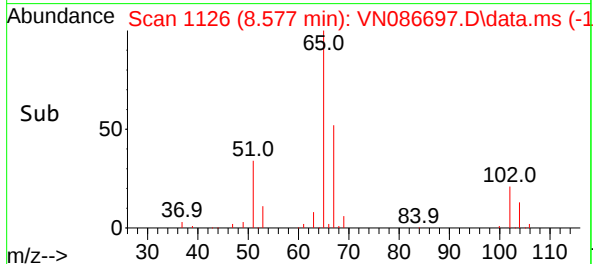
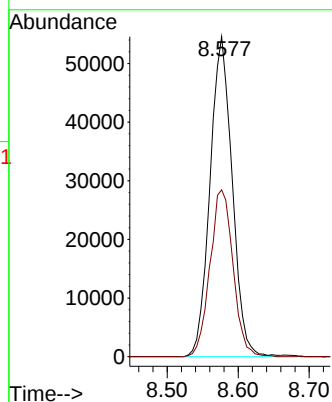
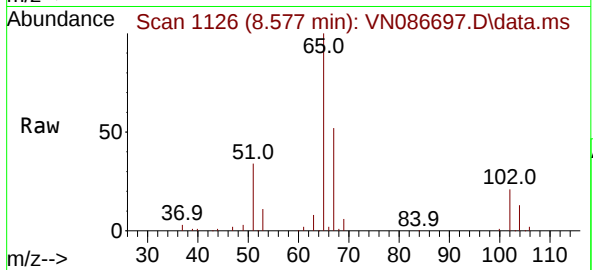
PB168034ZHE#14

Tgt Ion: 65 Resp: 118224

Ion Ratio Lower Upper

65 100

67 54.3 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: VN086697.D

Acq: 19 May 2025 18:17

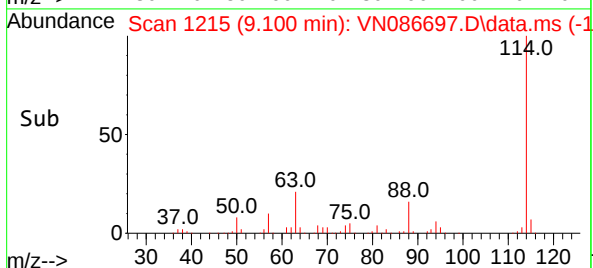
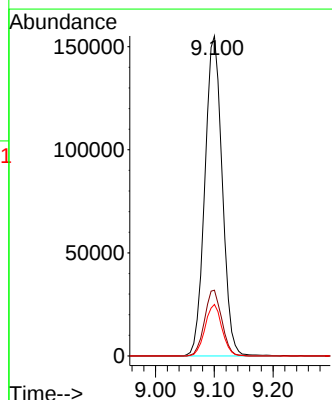
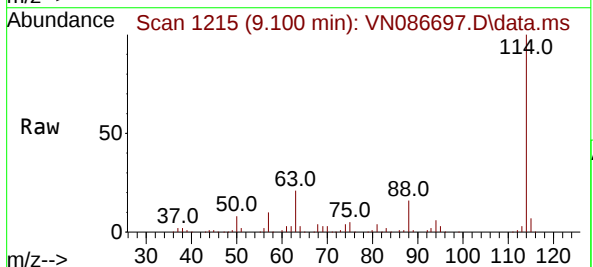
Tgt Ion: 114 Resp: 318174

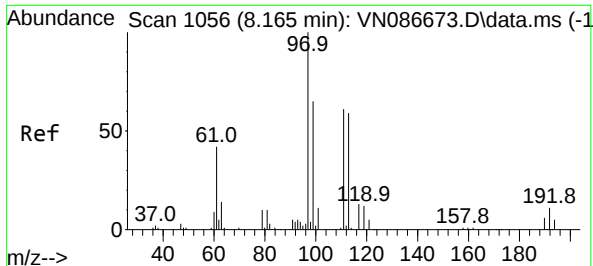
Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.2

88 16.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 52.391 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#14

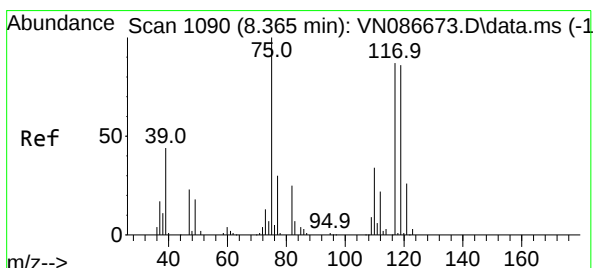
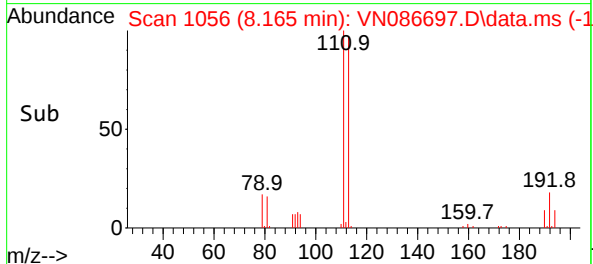
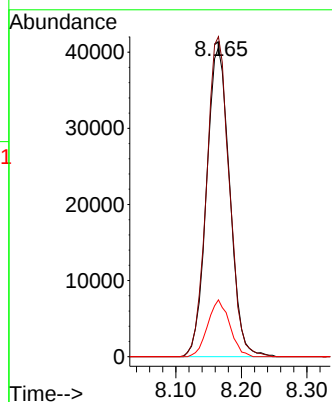
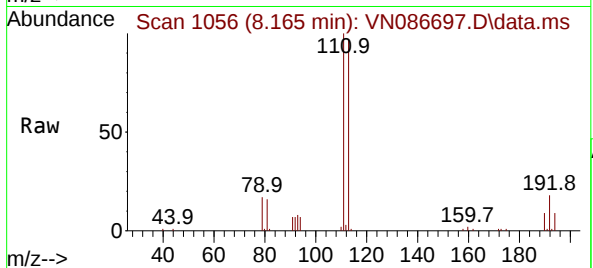
Tgt Ion:113 Resp: 99274

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.2

192 17.5 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

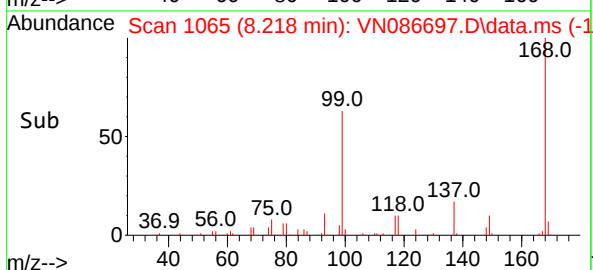
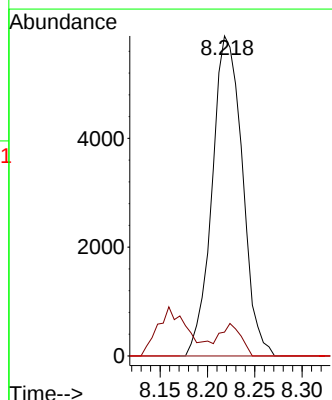
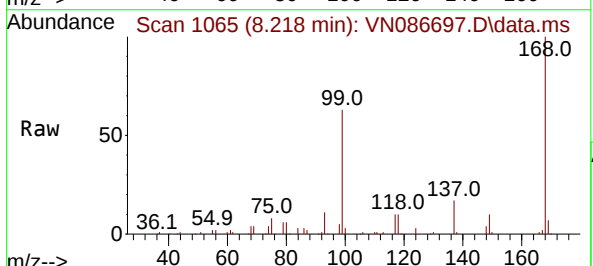
Tgt Ion: 75 Resp: 13062

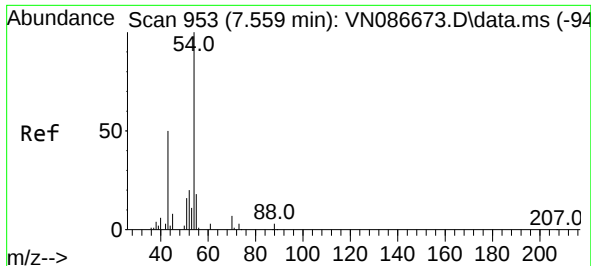
Ion Ratio Lower Upper

75 100

110 6.7 17.5 52.5#

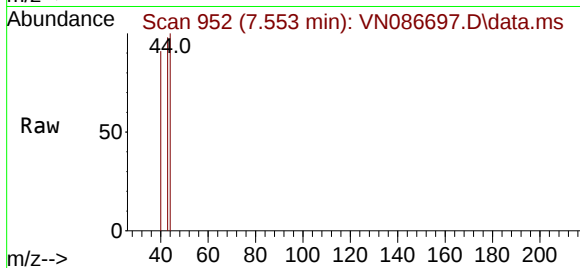
77 0.0 25.1 37.7#



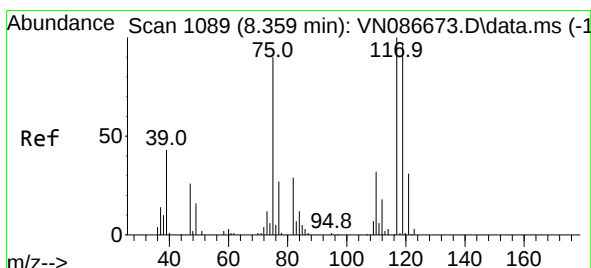
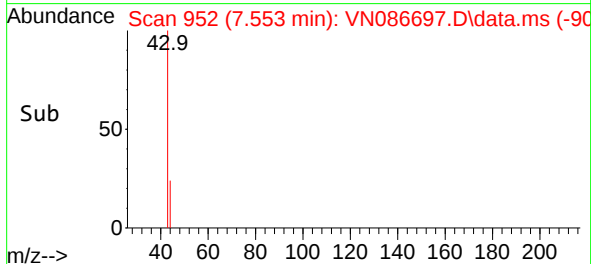
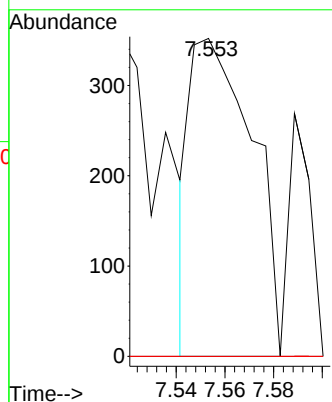


#37
Ethyl Acetate
Concen: 0.221 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14

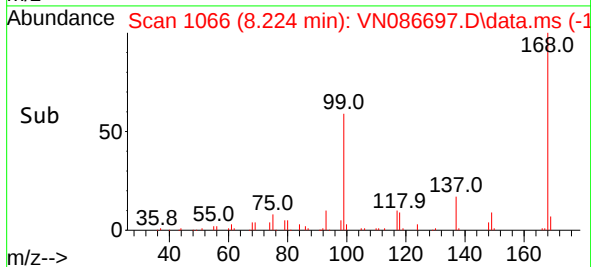
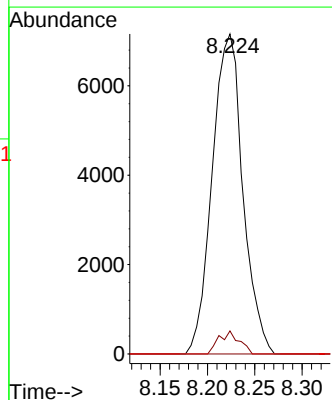
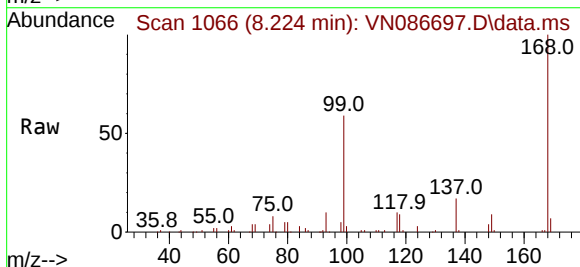


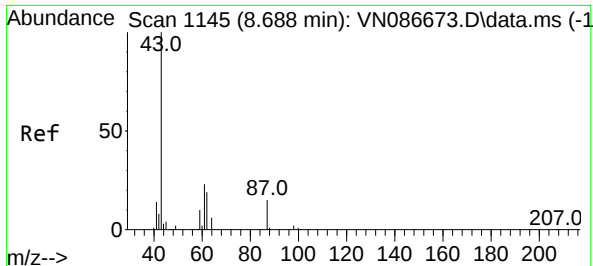
Tgt Ion: 43 Resp: 625
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 5.856 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Tgt Ion: 117 Resp: 16128
Ion Ratio Lower Upper
117 100
119 7.2 77.0 115.6#
121 0.0 25.0 37.6#

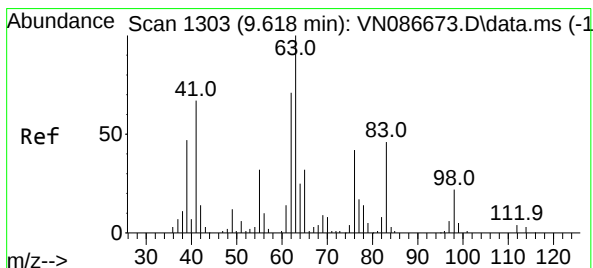
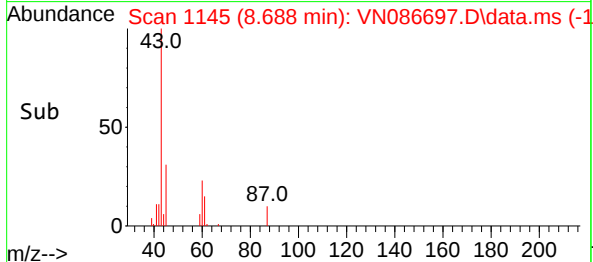
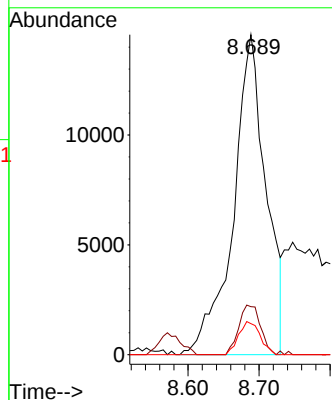
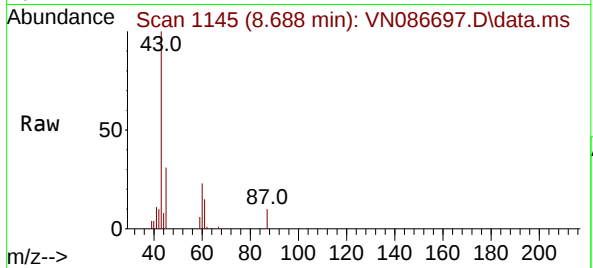




#43
Isopropyl Acetate
Concen: 8.228 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

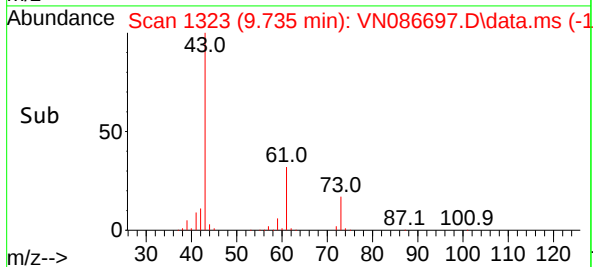
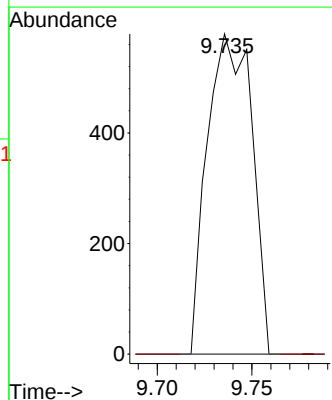
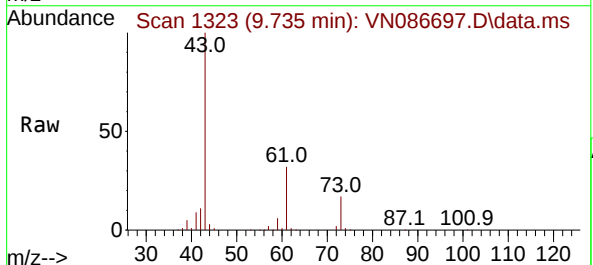
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14

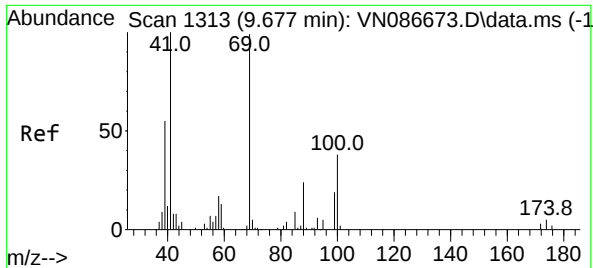
Tgt Ion: 43 Resp: 46569
Ion Ratio Lower Upper
43 100
61 10.3 21.4 32.2#
87 6.8 11.1 16.7#



#45
1,2-Dichloropropane
Concen: 0.438 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Tgt Ion: 63 Resp: 949
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.6#

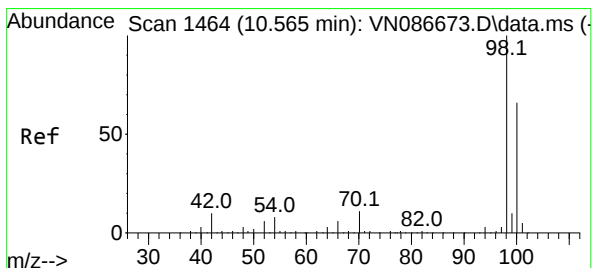
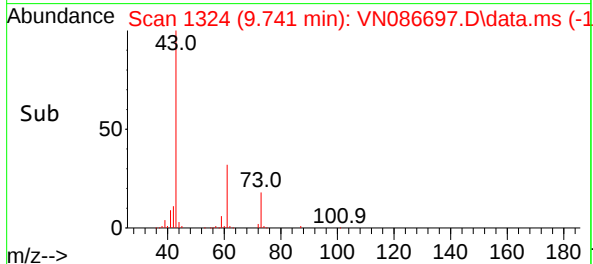
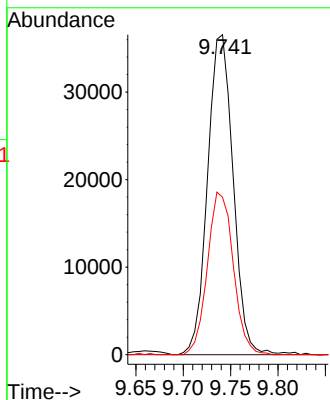
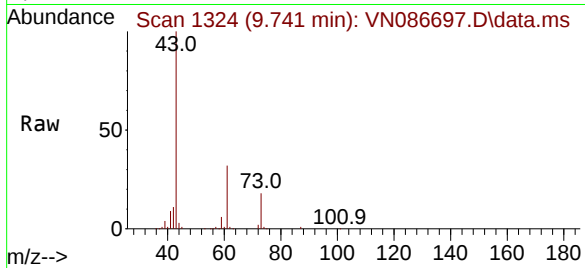




#48
Methyl methacrylate
Concen: 31.256 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.065 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

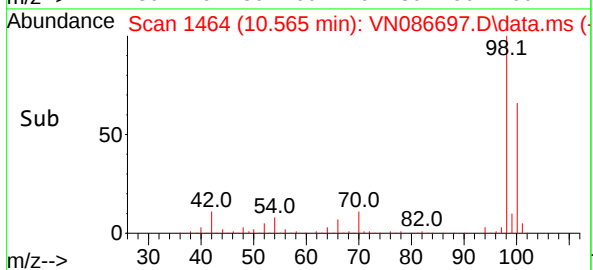
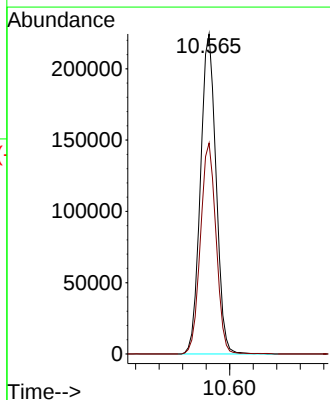
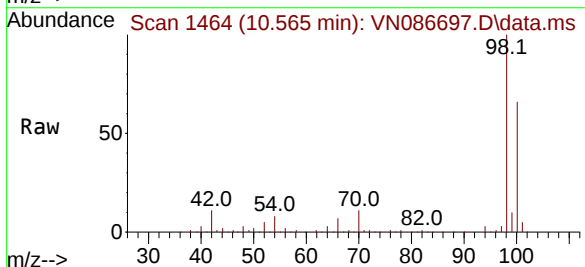
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14

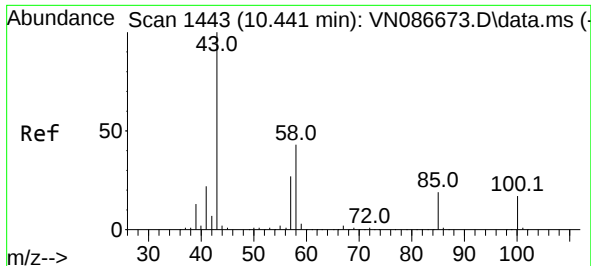
Tgt Ion: 41 Resp: 68552
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 51.5 44.1 66.1



#50
Toluene-d8
Concen: 52.537 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Tgt Ion: 98 Resp: 412544
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 2.211 ug/l

RT: 10.477 min Scan# 1449

Delta R.T. 0.035 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

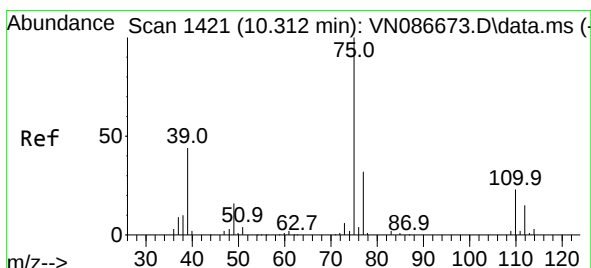
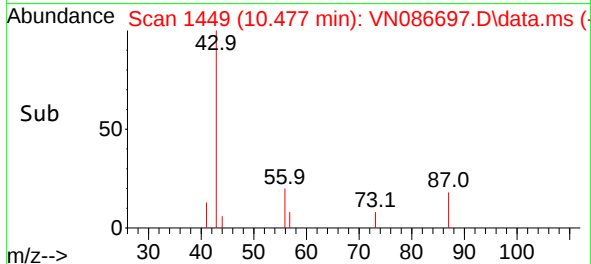
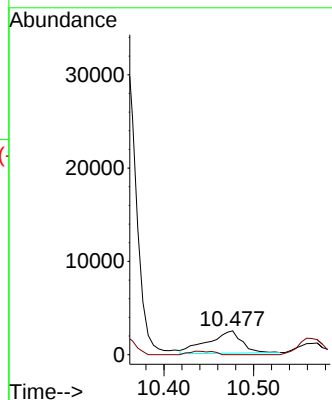
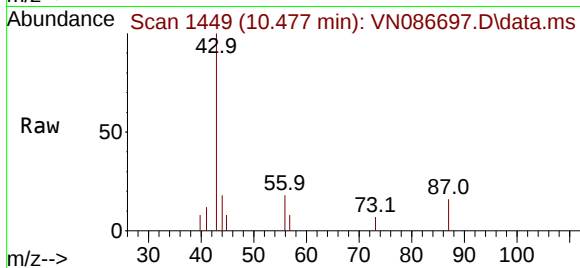
PB168034ZHE#14

Tgt Ion: 43 Resp: 6312

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#



#54

cis-1,3-Dichloropropene

Concen: 10.037 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

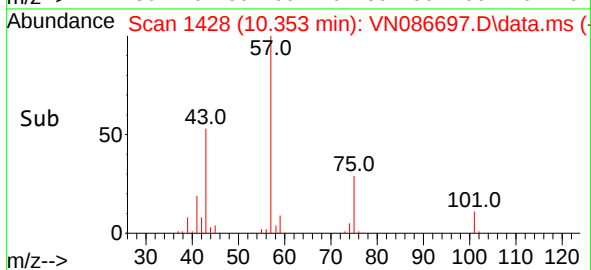
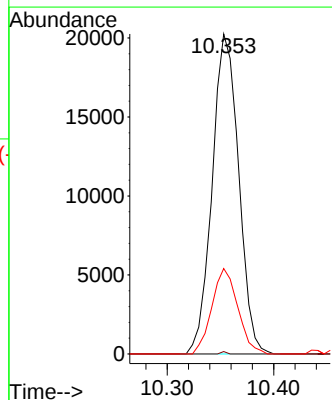
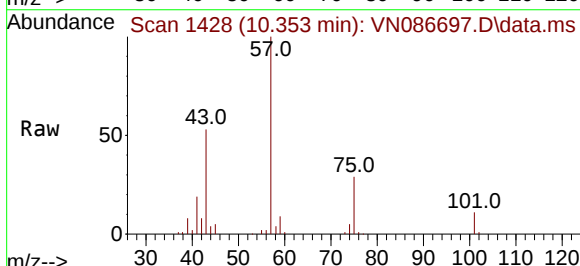
Tgt Ion: 75 Resp: 34932

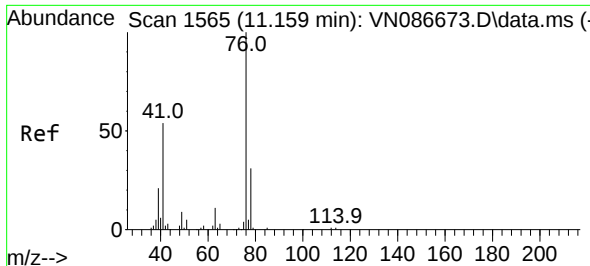
Ion Ratio Lower Upper

75 100

77 0.8 25.3 37.9#

39 26.7 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.906 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

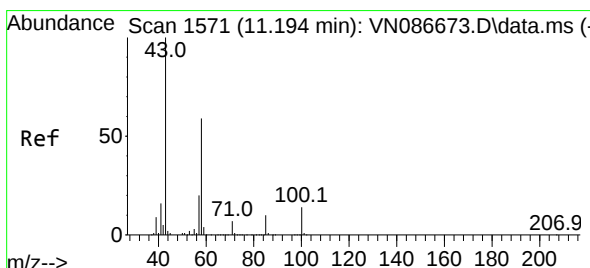
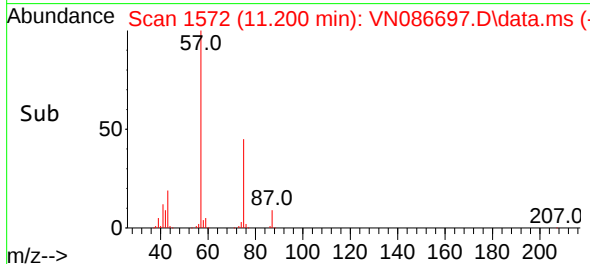
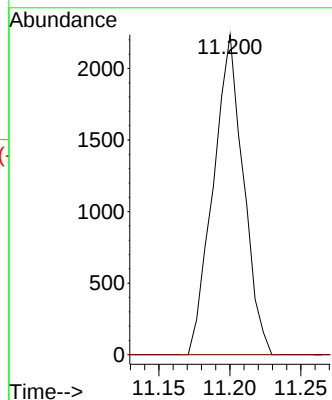
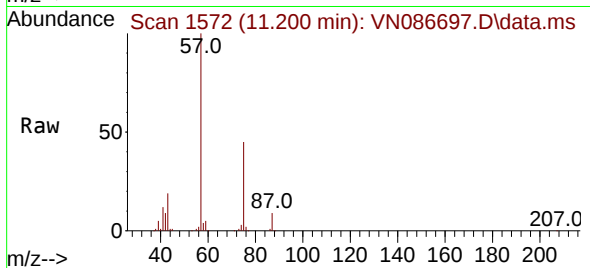
PB168034ZHE#14

Tgt Ion: 76 Resp: 3298

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 26.363 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086697.D

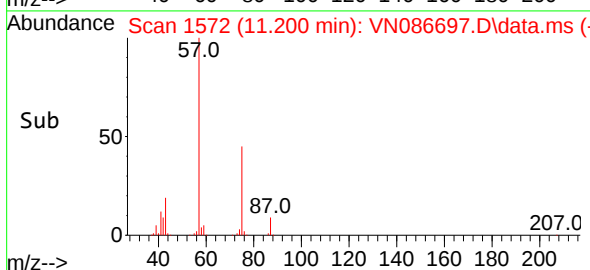
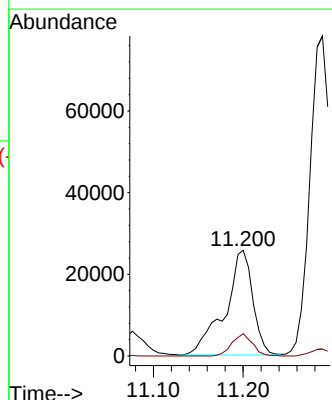
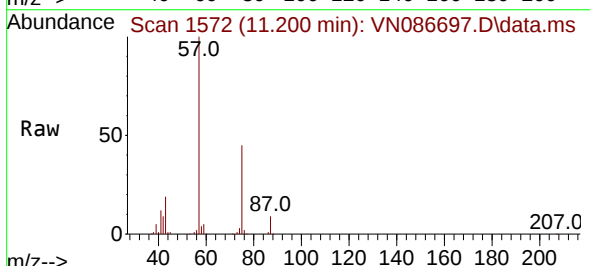
Acq: 19 May 2025 18:17

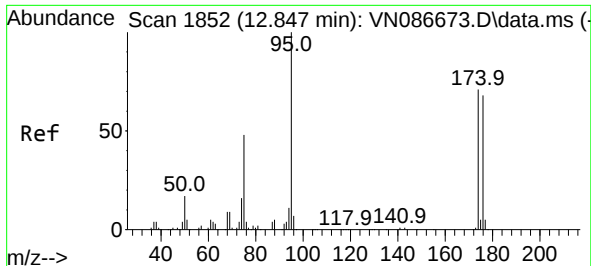
Tgt Ion: 43 Resp: 54949

Ion Ratio Lower Upper

43 100

58 15.8 29.8 89.5#

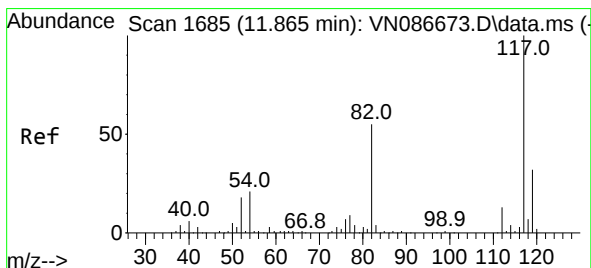
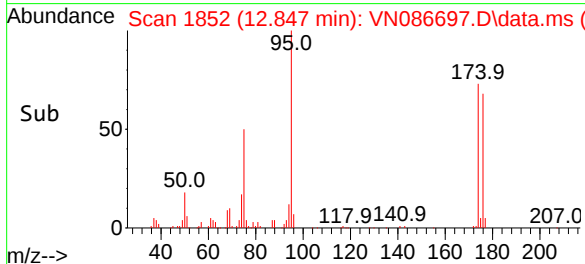
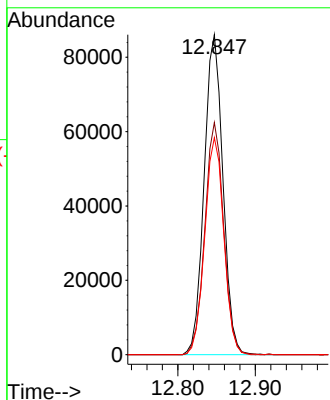
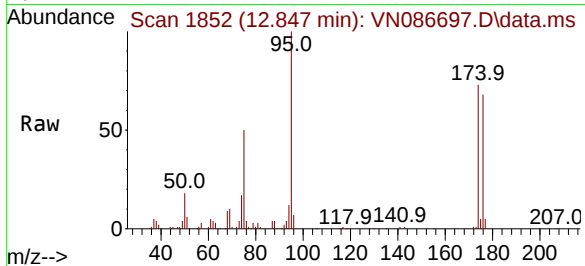




#62
4-Bromofluorobenzene
Concen: 52.138 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

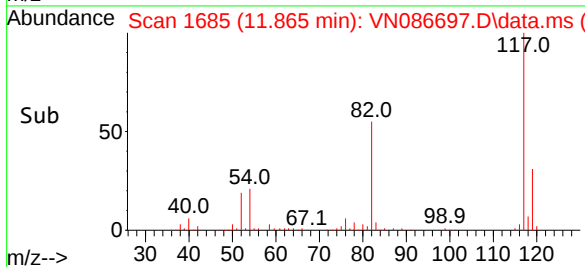
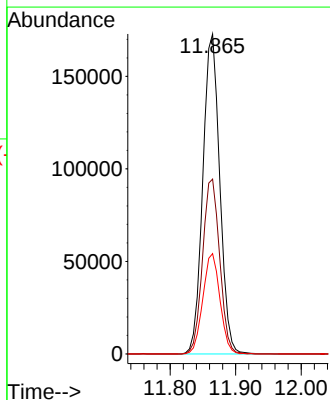
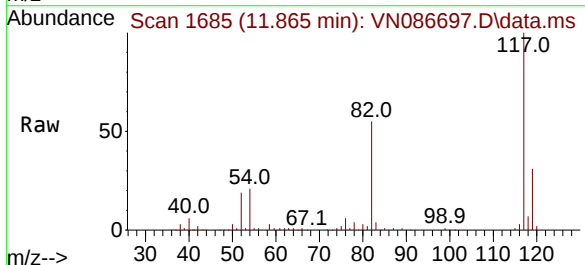
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#14

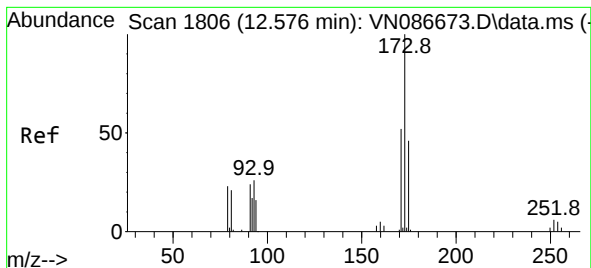
Tgt Ion: 95 Resp: 144561
Ion Ratio Lower Upper
95 100
174 72.8 0.0 145.4
176 68.8 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086697.D
Acq: 19 May 2025 18:17

Tgt Ion: 117 Resp: 310923
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 31.4 25.4 38.2





#71

Bromoform

Concen: 0.480 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#14

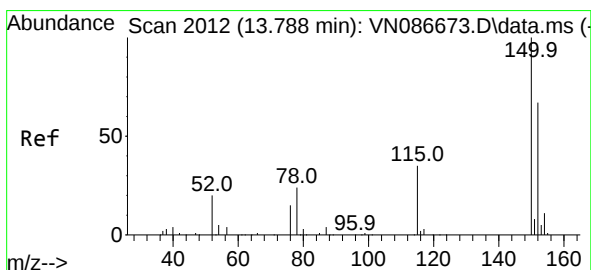
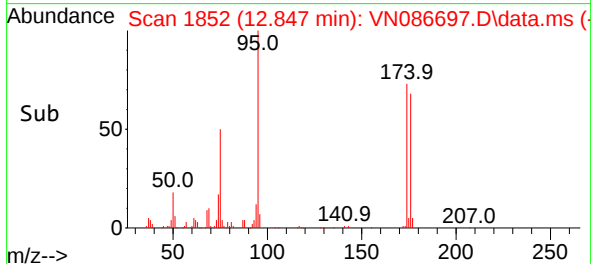
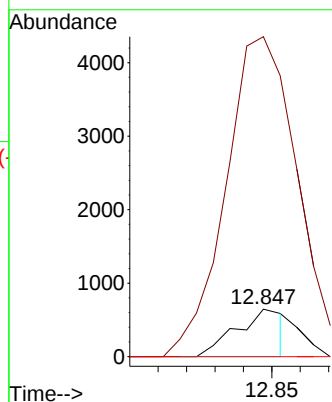
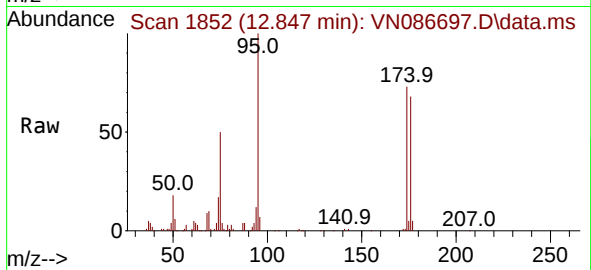
Tgt Ion:173 Resp: 752

Ion Ratio Lower Upper

173 100

175 805.5 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: VN086697.D

Acq: 19 May 2025 18:17

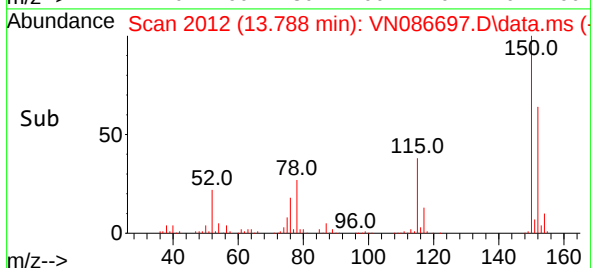
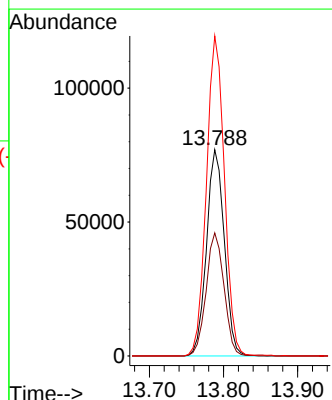
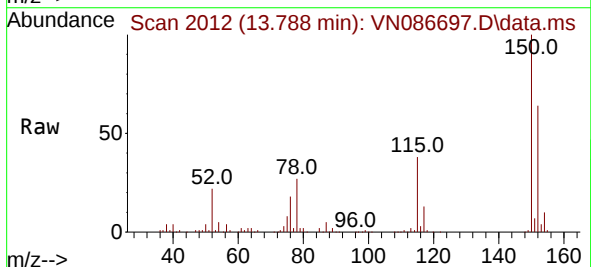
Tgt Ion:152 Resp: 128720

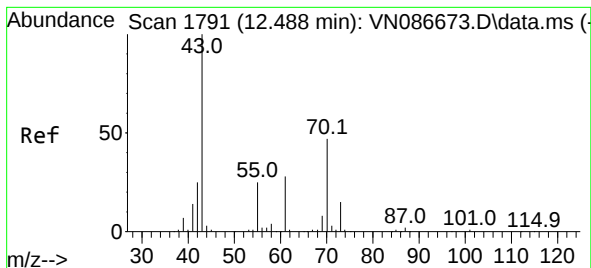
Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.1

150 156.4 0.0 347.8





#74

N-amy1 acetate

Concen: 0.739 ug/l

RT: 12.453 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN086697.D

Acq: 19 May 2025 18:17

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#14

Tgt Ion: 43 Resp: 3071

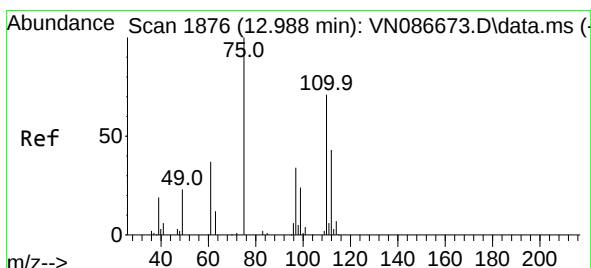
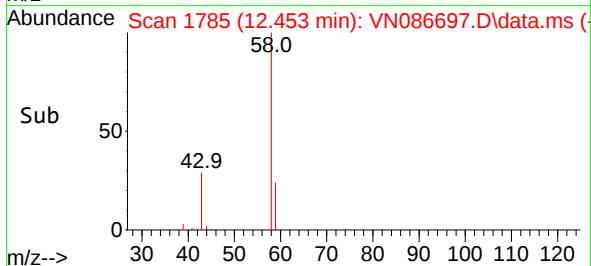
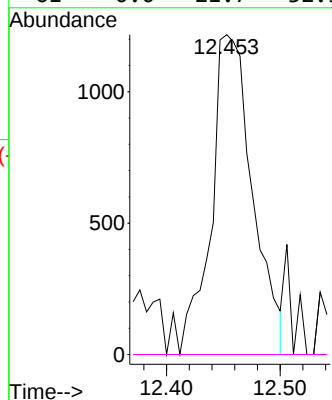
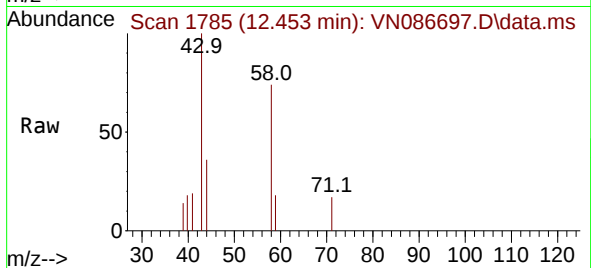
Ion Ratio Lower Upper

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: 24.426 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086697.D

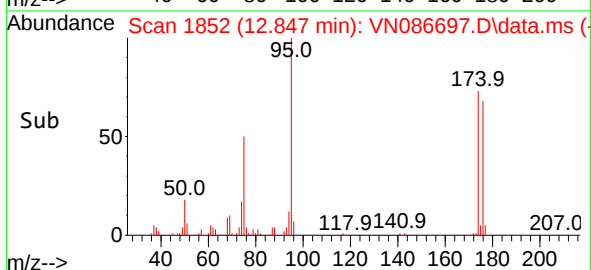
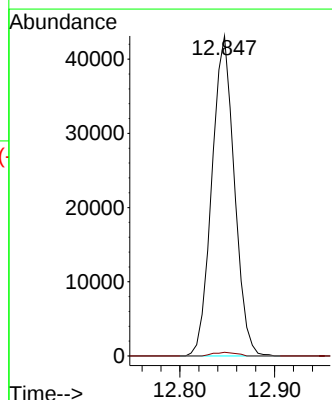
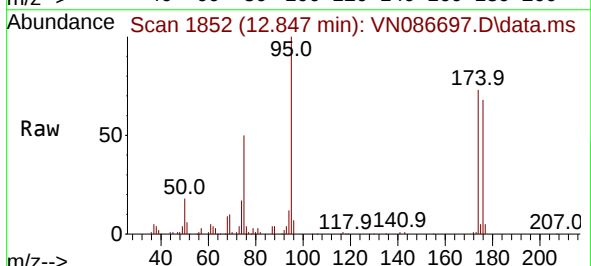
Acq: 19 May 2025 18:17

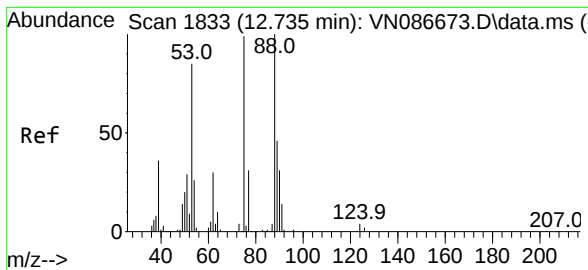
Tgt Ion: 75 Resp: 71108

Ion Ratio Lower Upper

75 100

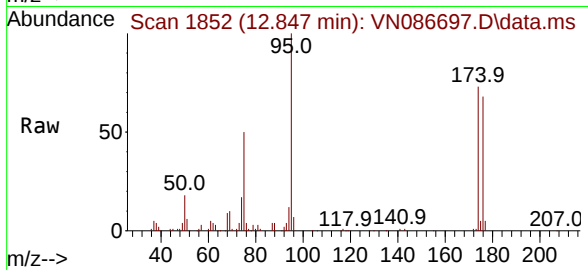
77 1.2 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.644 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086697.D
 Acq: 19 May 2025 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#14



Tgt Ion: 75 Resp: 71108
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

