

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086696.D
 Acq On : 19 May 2025 17:53
 Operator : JC\MD
 Sample : PB168034ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#13

Quant Time: May 20 03:22:31 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)

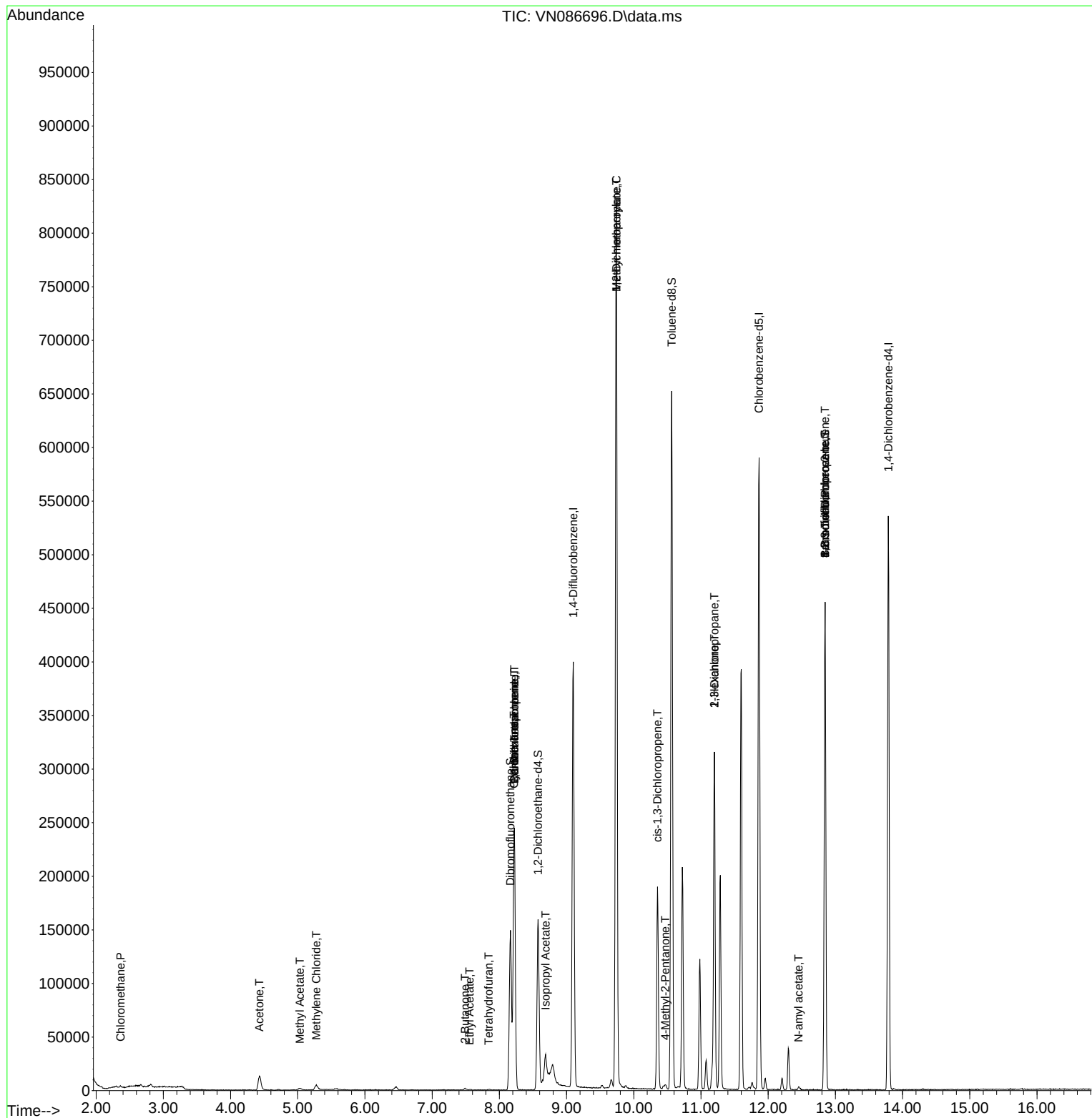
Internal Standards						
1) Pentafluorobenzene	8.224	168	184340	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	356194	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	354962	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131562	51.649	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.300%			
35) Dibromofluoromethane	8.165	113	109599	51.666	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.340%			
50) Toluene-d8	10.565	98	462494	52.612	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.220%			
62) 4-Bromofluorobenzene	12.847	95	168160	54.176	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.360%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	898	0.298	ug/l	94
16) Acetone	4.430	43	25937	27.221	ug/l	98
18) Methyl Acetate	5.030	43	4148	1.555	ug/l #	62
20) Methylene Chloride	5.277	84	3696	1.470	ug/l	96
25) 2-Butanone	7.488	43	2677	1.818	ug/l	94
29) Tetrahydrofuran	7.841	42	601	0.625	ug/l #	30
31) Cyclohexane	8.218	56	3882	1.015	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13906	4.444	ug/l #	49
37) Ethyl Acetate	7.559	43	847	0.268	ug/l #	67
38) Carbon Tetrachloride	8.224	117	18094	5.869	ug/l #	15
43) Isopropyl Acetate	8.688	43	47541	7.503	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	991	0.409	ug/l #	42
48) Methyl methacrylate	9.741	41	71444	29.098	ug/l #	37
51) 4-Methyl-2-Pentanone	10.471	43	5777	1.808	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	36067	9.257	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3318	0.814	ug/l #	42
59) 2-Hexanone	11.200	43	58623	25.123	ug/l #	41
71) Bromoform	12.847	173	927	0.519	ug/l #	1
74) N-amyl acetate	12.453	43	2831	0.593	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	85130	25.442	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85130	64.208	ug/l #	15

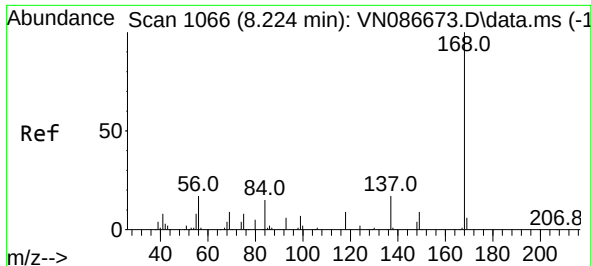
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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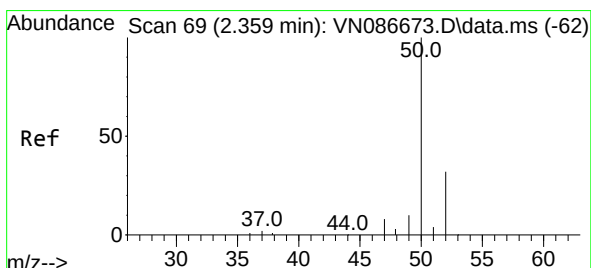
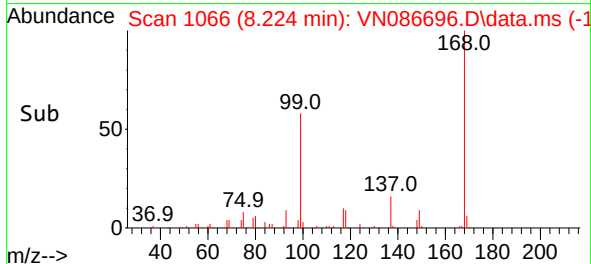
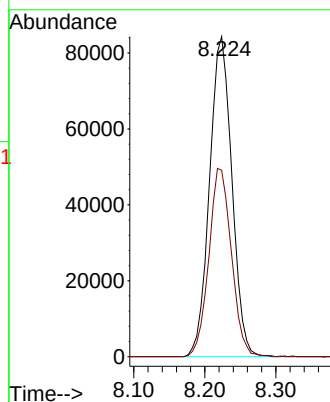
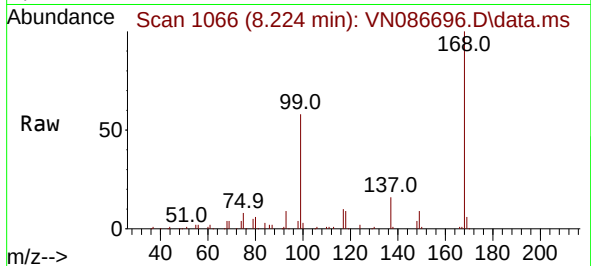




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

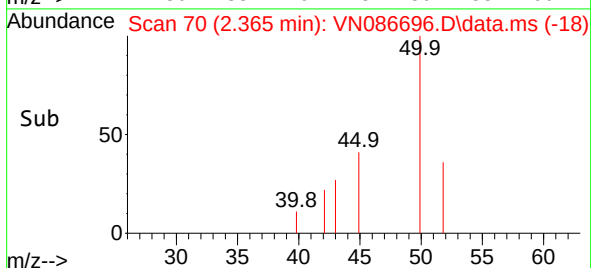
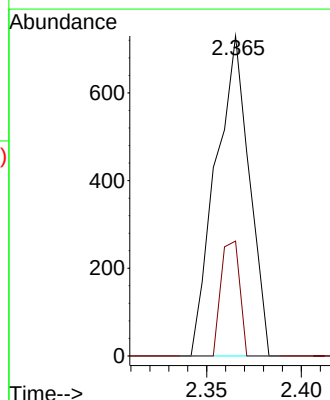
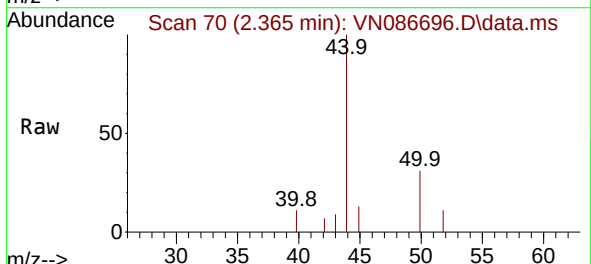
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

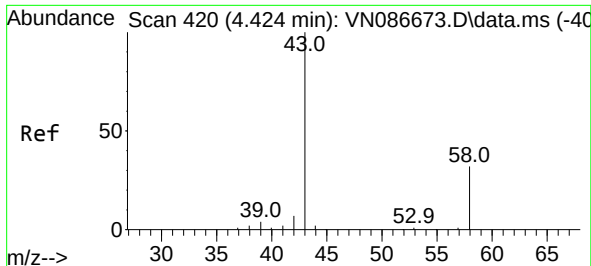
Tgt Ion:168 Resp: 184340
Ion Ratio Lower Upper
168 100
99 58.2 47.0 70.4



#3
Chloromethane
Concen: 0.298 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion: 50 Resp: 898
Ion Ratio Lower Upper
50 100
52 35.9 25.9 38.9

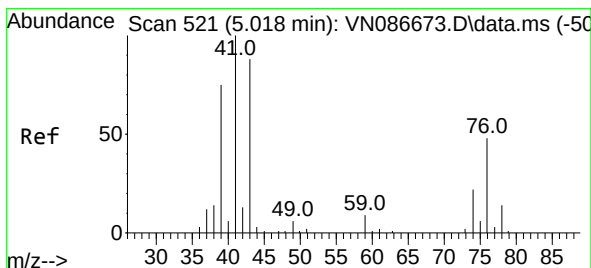
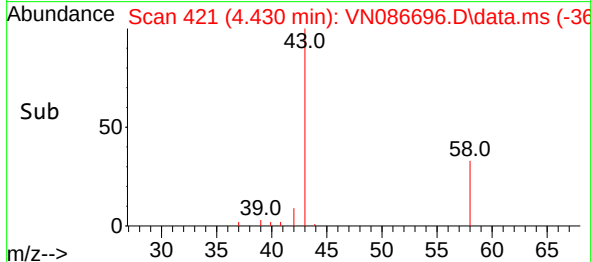
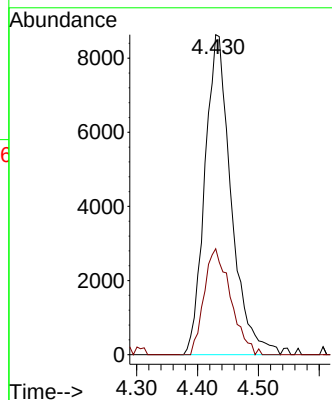
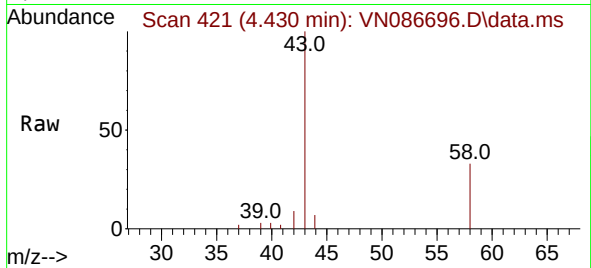




#16
Acetone
Concen: 27.221 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

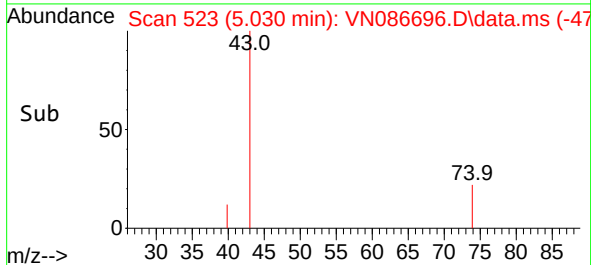
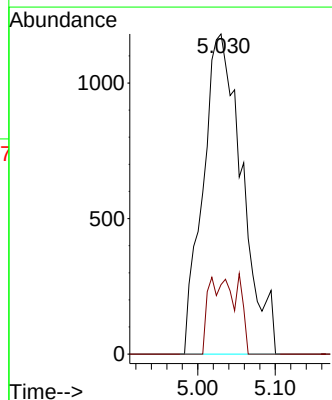
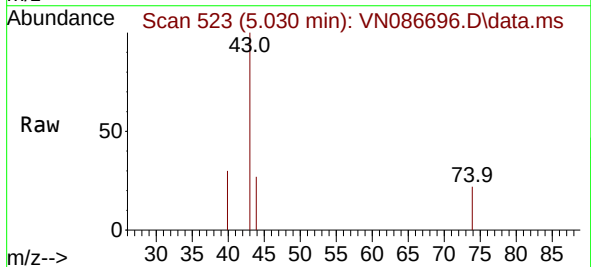
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

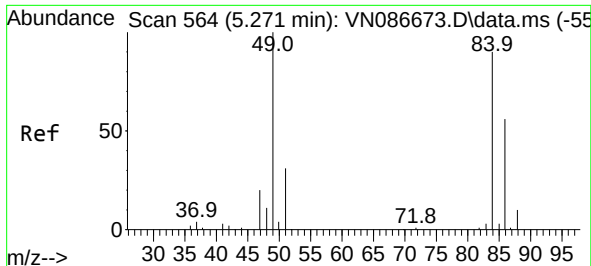
Tgt Ion: 43 Resp: 25937
Ion Ratio Lower Upper
43 100
58 33.1 25.8 38.6



#18
Methyl Acetate
Concen: 1.555 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

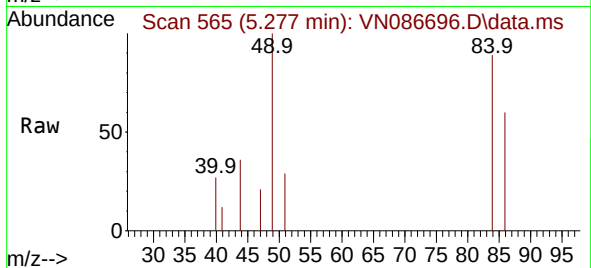
Tgt Ion: 43 Resp: 4148
Ion Ratio Lower Upper
43 100
74 6.2 20.5 30.7#



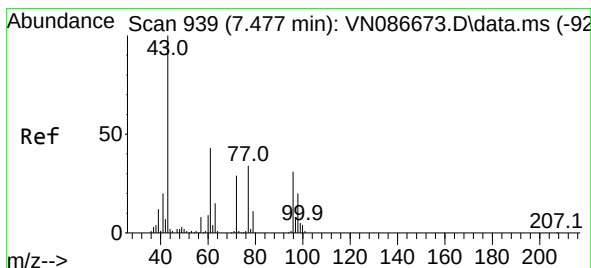
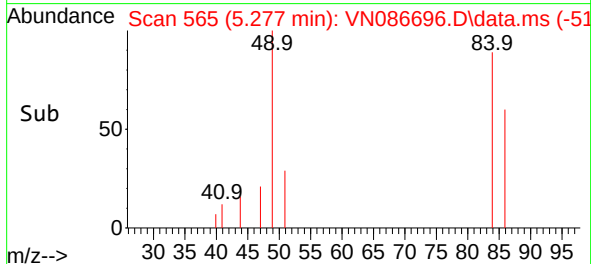
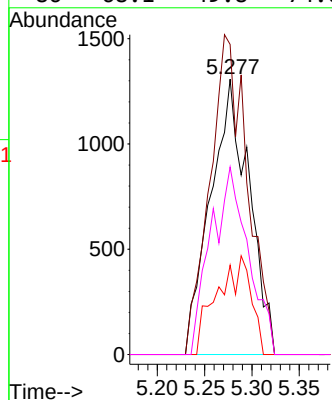


#20
Methylene Chloride
Concen: 1.470 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

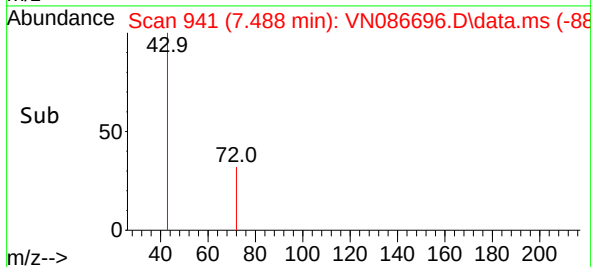
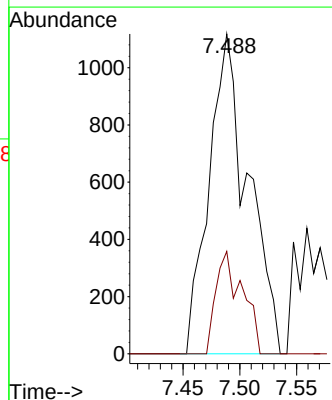
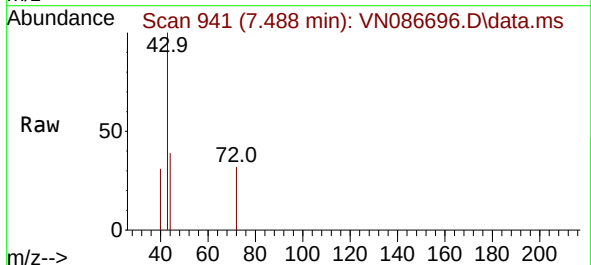


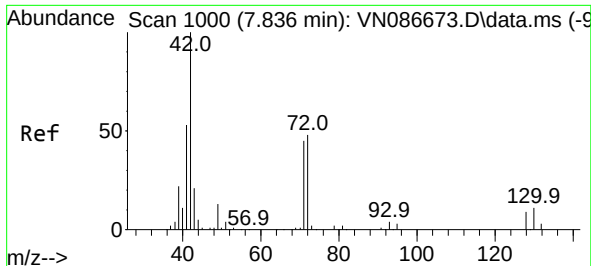
Tgt Ion: 84	Resp: 3696
Ion Ratio	Lower Upper
84 100	
49 112.6	88.8 133.2
51 32.4	27.8 41.6
86 68.1	49.8 74.6



#25
2-Butanone
Concen: 1.818 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion: 43	Resp: 2677
Ion Ratio	Lower Upper
43 100	
72 32.0	23.1 34.7





#29

Tetrahydrofuran

Concen: 0.625 ug/l

RT: 7.841 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#13

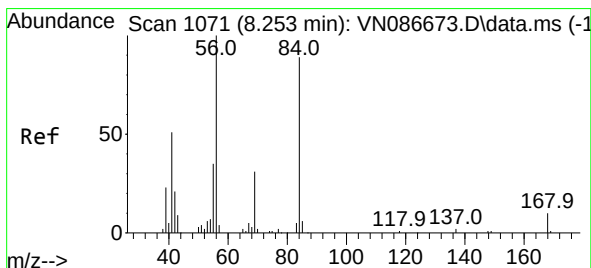
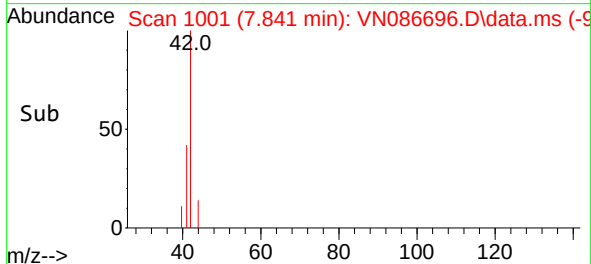
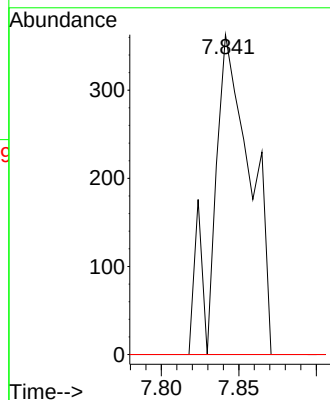
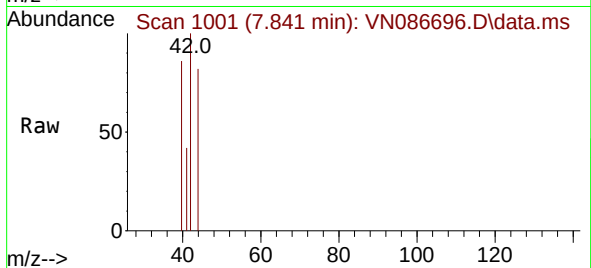
Tgt Ion: 42 Resp: 601

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.015 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

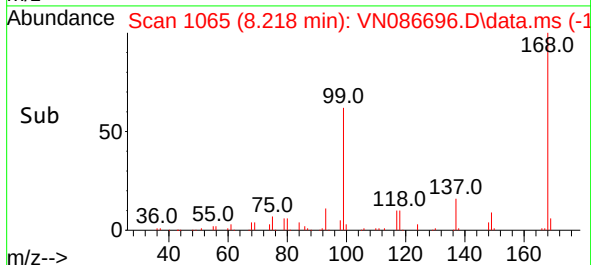
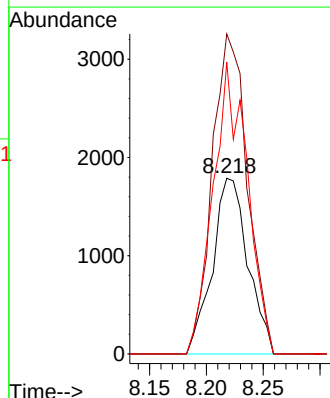
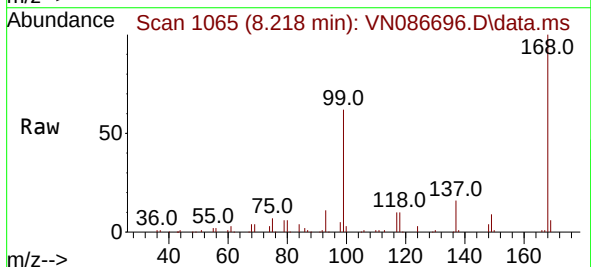
Tgt Ion: 56 Resp: 3882

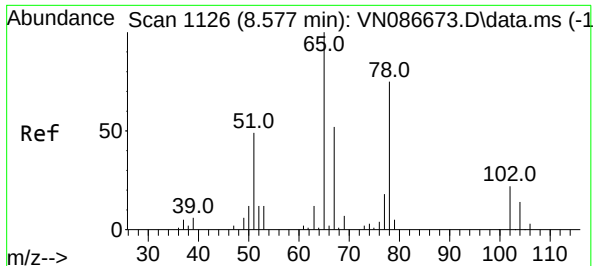
Ion Ratio Lower Upper

56 100

69 182.2 25.0 37.6#

84 166.0 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 51.649 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

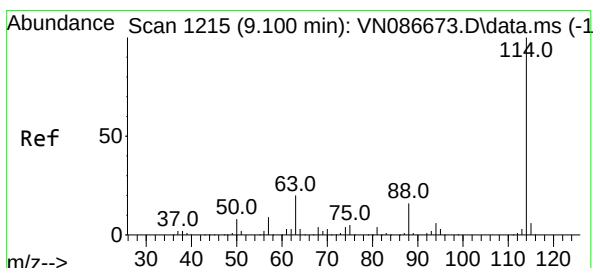
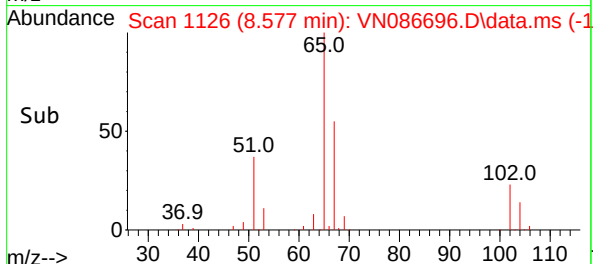
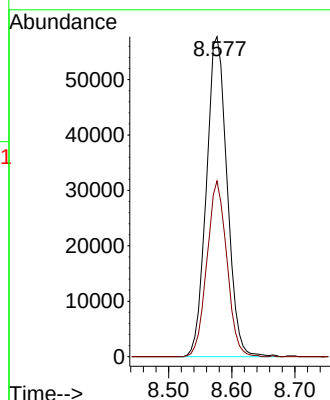
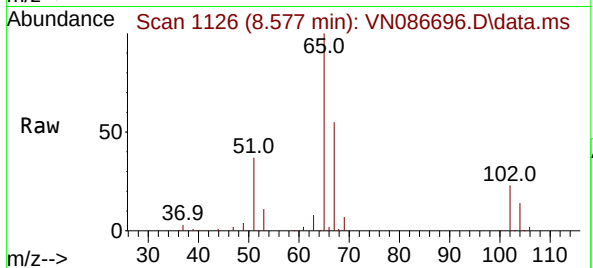
PB168034ZHE#13

Tgt Ion: 65 Resp: 131562

Ion Ratio Lower Upper

65 100

67 52.8 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: VN086696.D

Acq: 19 May 2025 17:53

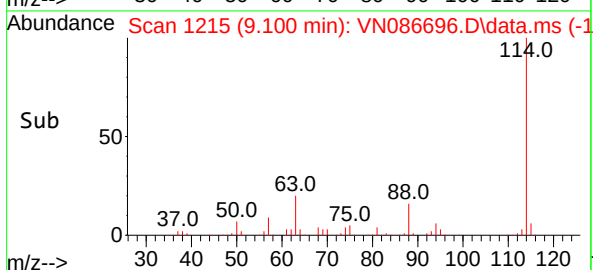
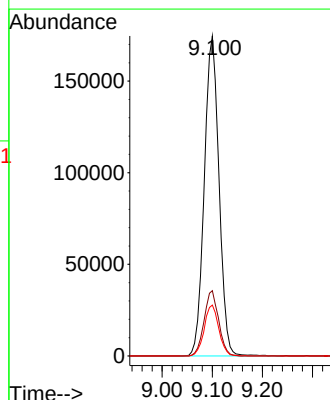
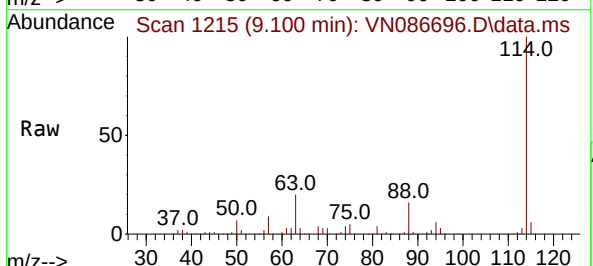
Tgt Ion: 114 Resp: 356194

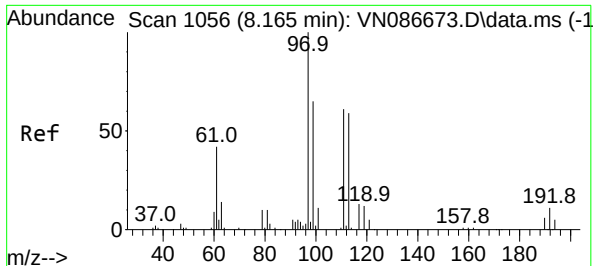
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

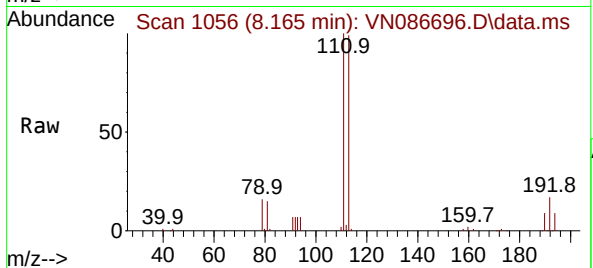
88 15.9 0.0 31.2



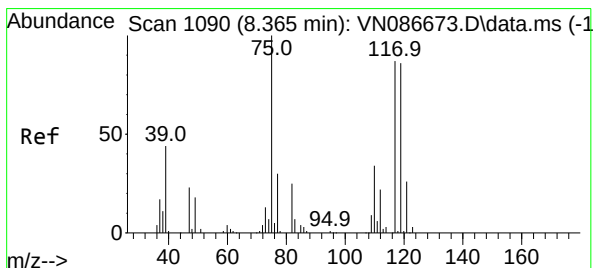
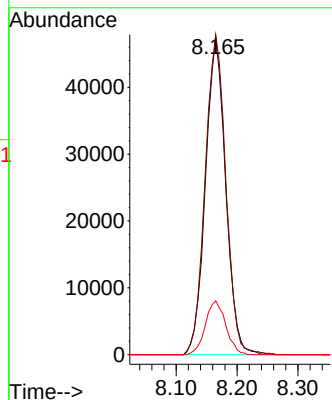
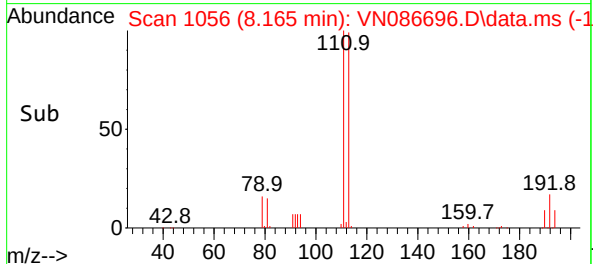


#35
Dibromofluoromethane
Concen: 51.666 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

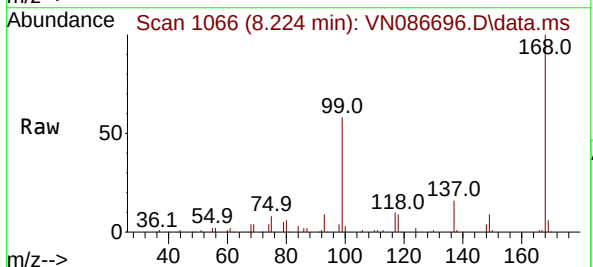
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13



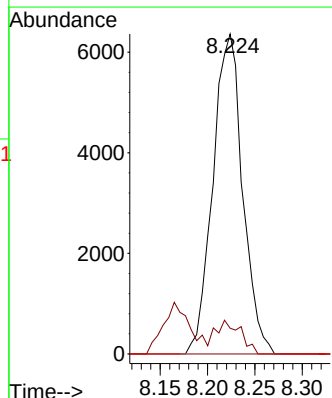
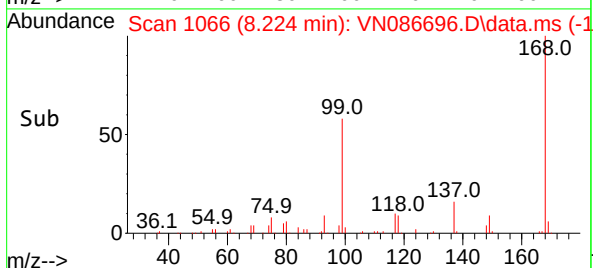
Tgt Ion:113 Resp: 109599
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 17.1 13.8 20.8

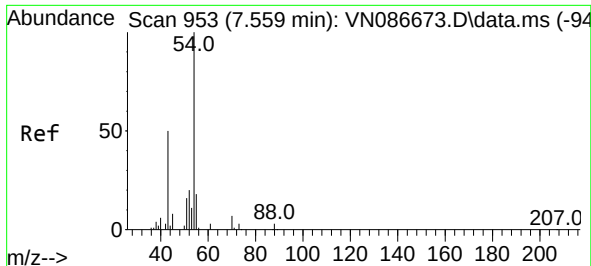


#36
1,1-Dichloropropene
Concen: 4.444 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53



Tgt Ion: 75 Resp: 13906
Ion Ratio Lower Upper
75 100
110 8.8 17.5 52.5#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.268 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086696.D

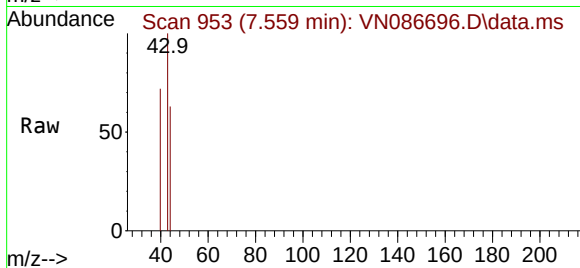
Acq: 19 May 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#13



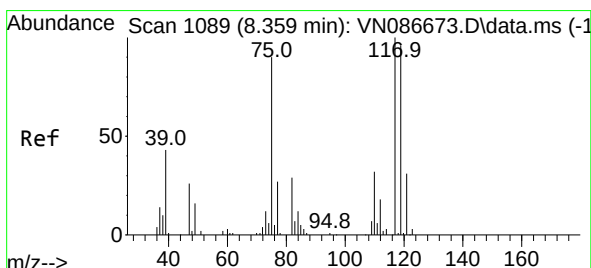
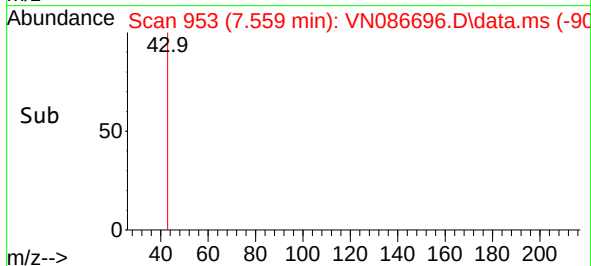
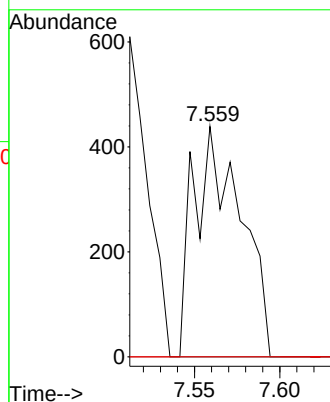
Tgt Ion: 43 Resp: 847

Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 5.869 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

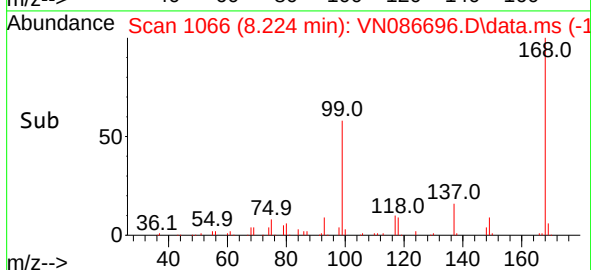
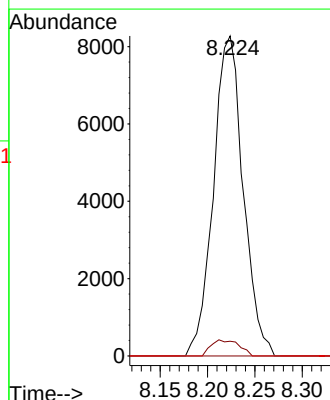
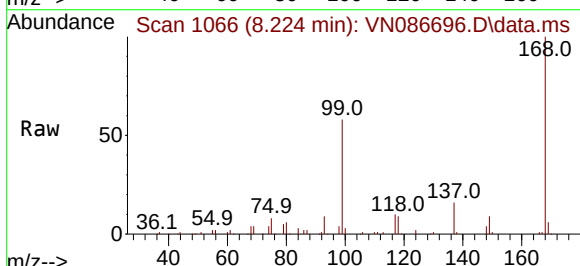
Tgt Ion: 117 Resp: 18094

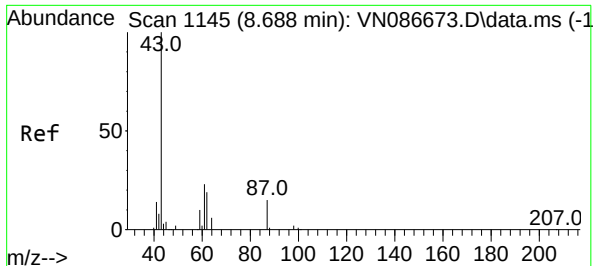
Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.6#

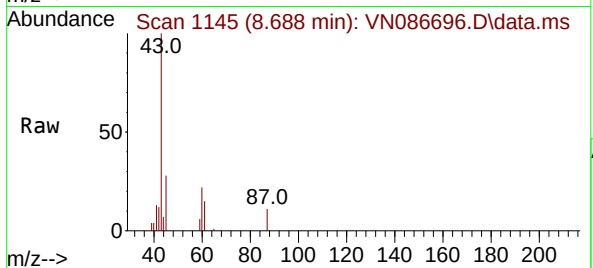
121 0.0 25.0 37.6#



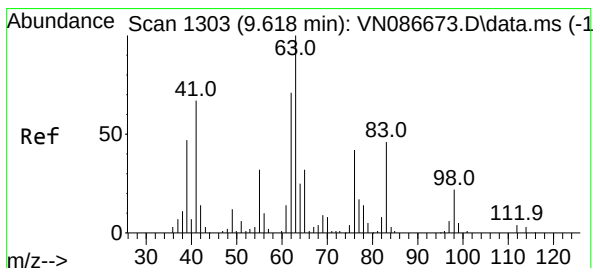
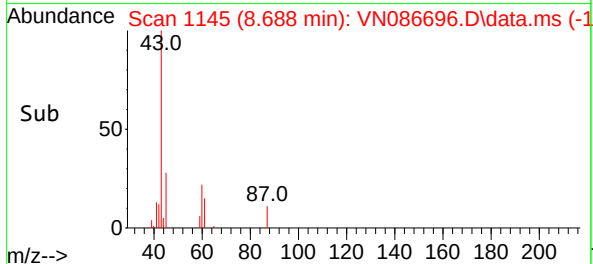
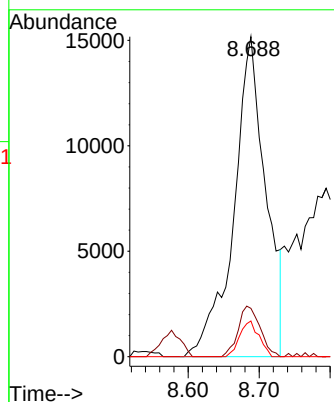


#43
Isopropyl Acetate
Concen: 7.503 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Instrument :
MSVOA_N
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PB168034ZHE#13

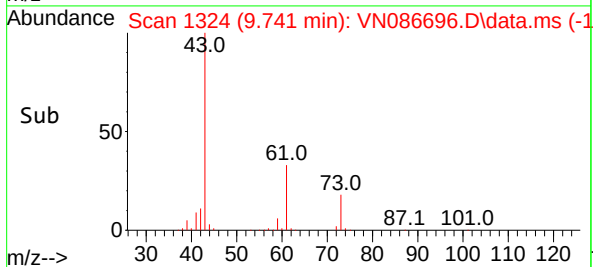
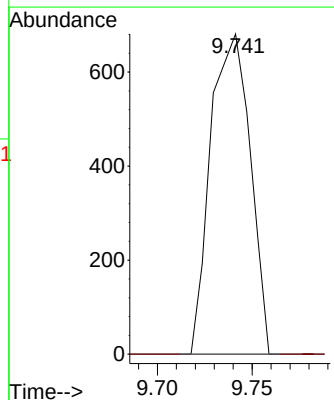
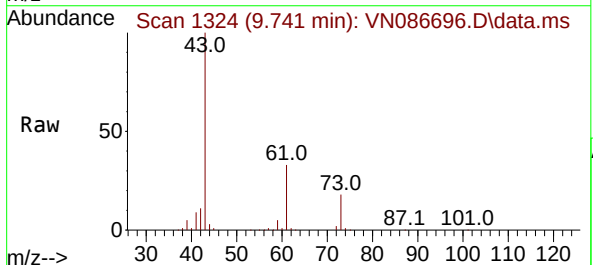


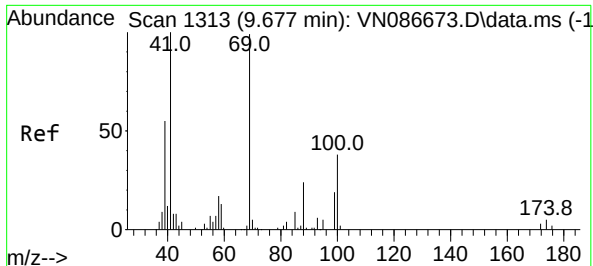
Tgt Ion: 43 Resp: 47541
Ion Ratio Lower Upper
43 100
61 10.9 21.4 32.2#
87 6.7 11.1 16.7#



#45
1,2-Dichloropropane
Concen: 0.409 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion: 63 Resp: 991
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.6#





#48

Methyl methacrylate

Concen: 29.098 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#13

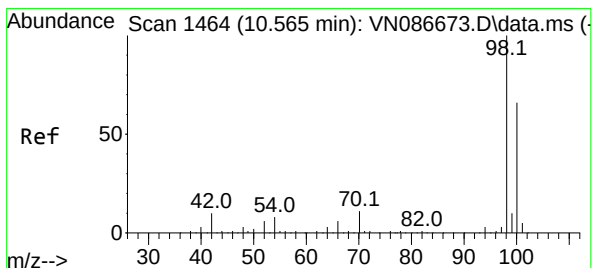
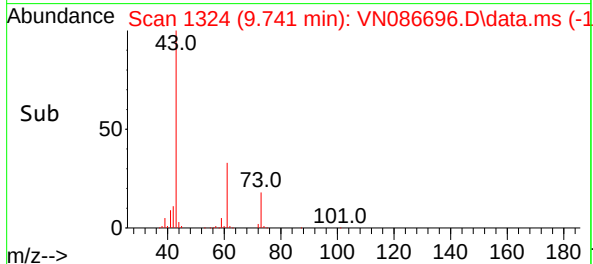
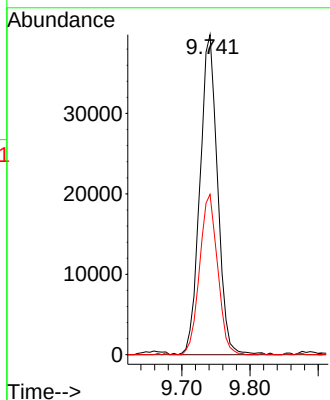
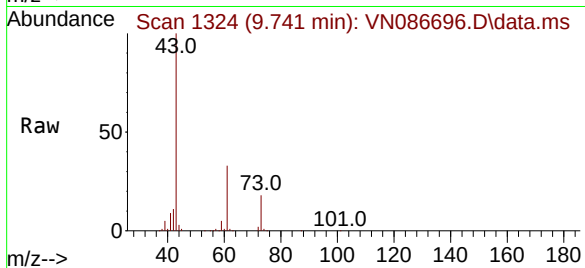
Tgt Ion: 41 Resp: 71444

Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 51.2 44.1 66.1



#50

Toluene-d8

Concen: 52.612 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086696.D

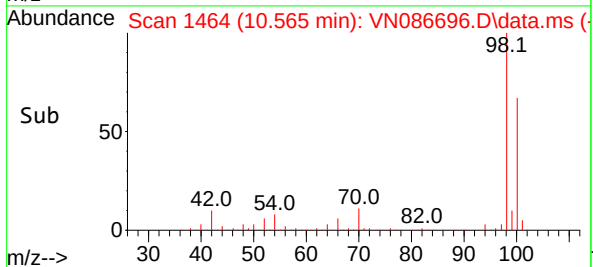
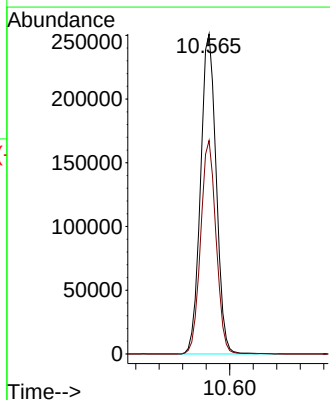
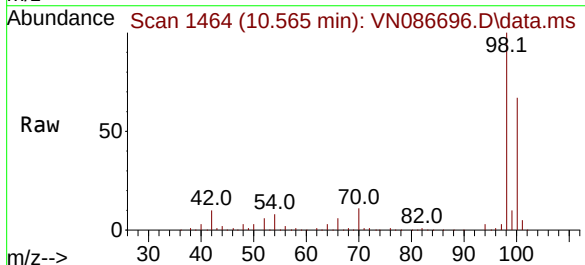
Acq: 19 May 2025 17:53

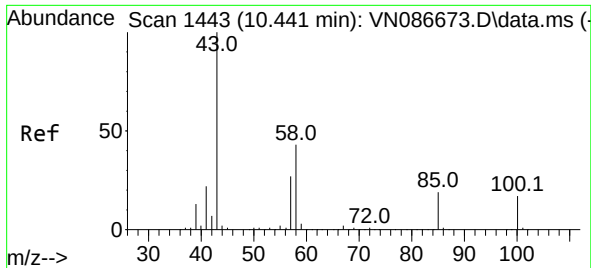
Tgt Ion: 98 Resp: 462494

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3

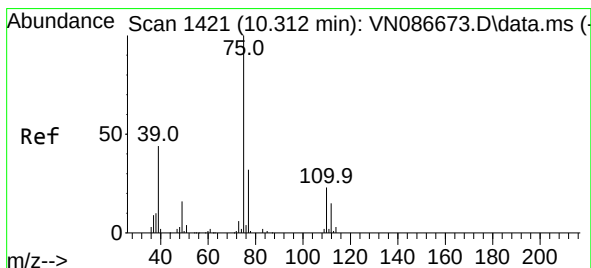
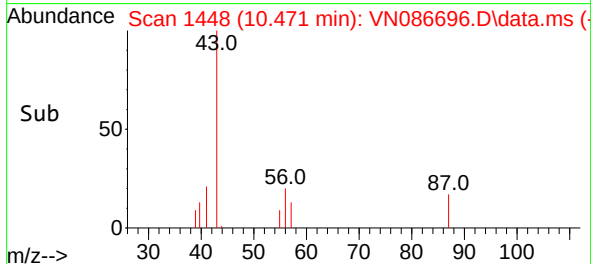
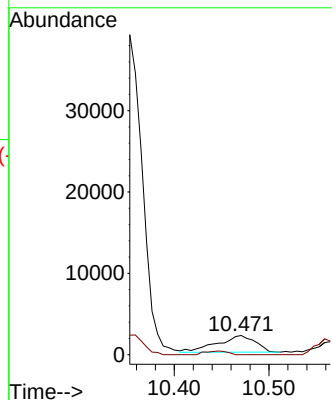
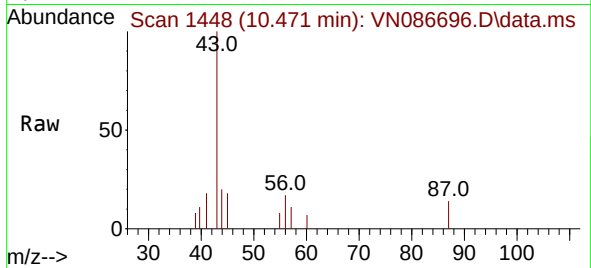




#51
4-Methyl-2-Pentanone
Concen: 1.808 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

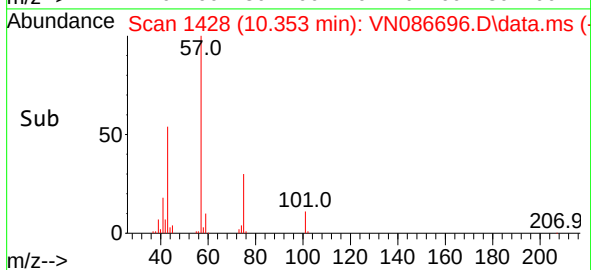
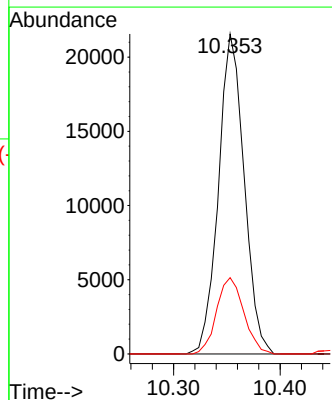
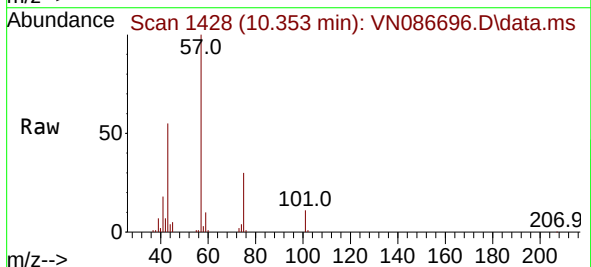
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

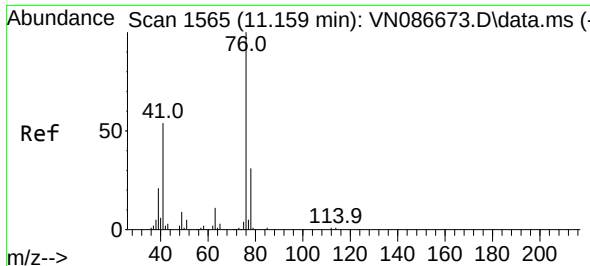
Tgt Ion: 43 Resp: 5777
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 9.257 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion: 75 Resp: 36067
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 23.9 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.814 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086696.D

Acq: 19 May 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

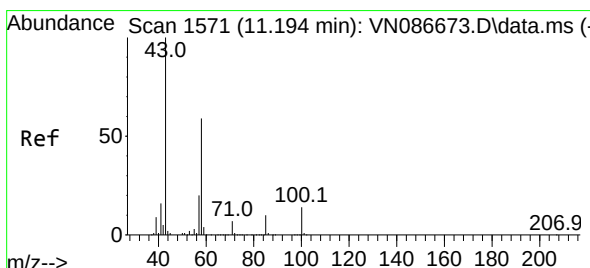
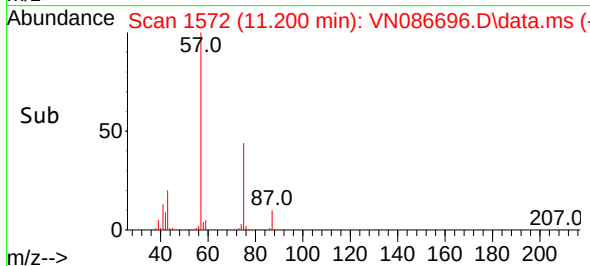
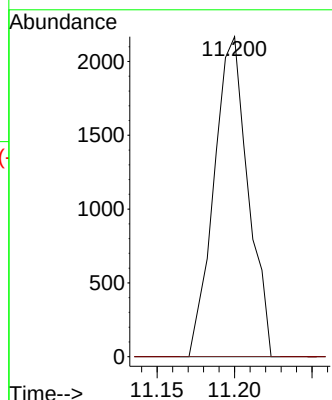
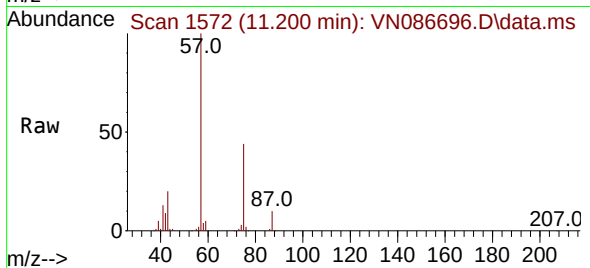
PB168034ZHE#13

Tgt Ion: 76 Resp: 3318

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 25.123 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086696.D

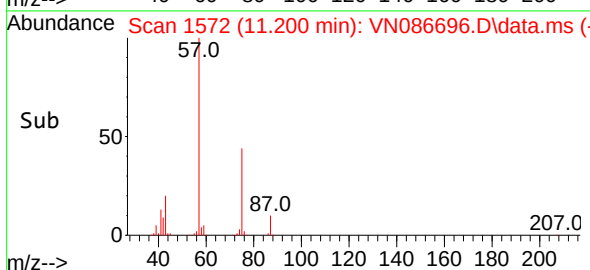
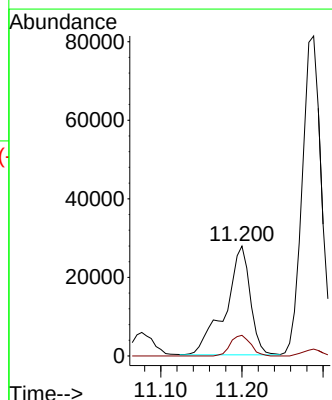
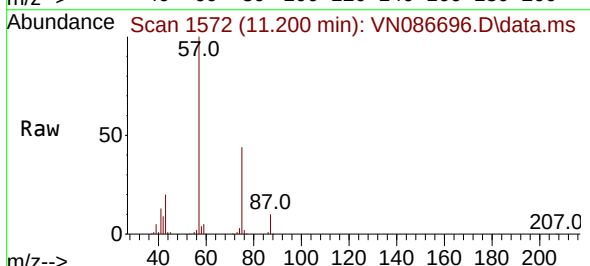
Acq: 19 May 2025 17:53

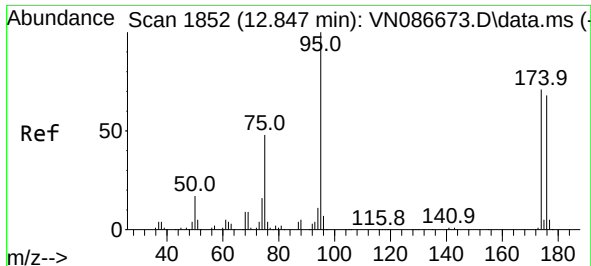
Tgt Ion: 43 Resp: 58623

Ion Ratio Lower Upper

43 100

58 15.5 29.8 89.5#

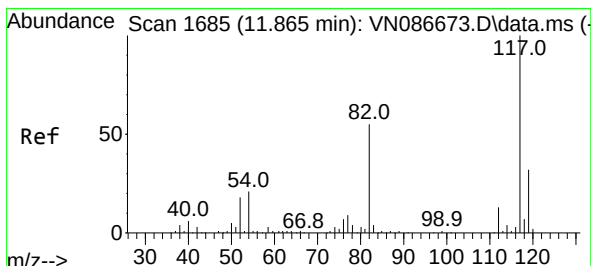
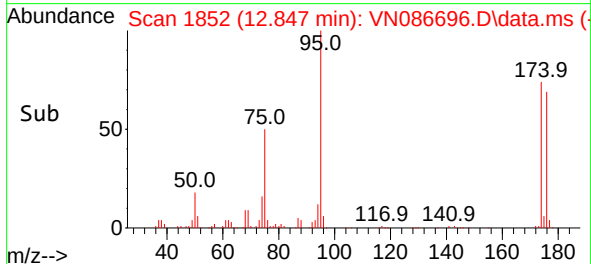
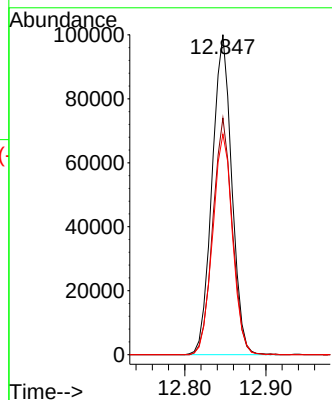
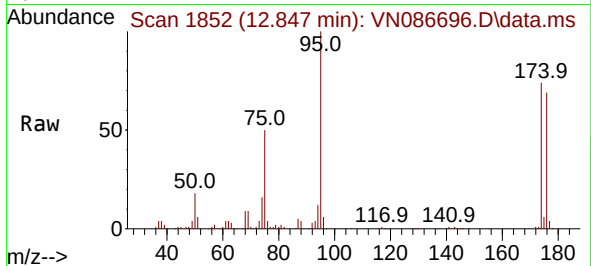




#62
4-Bromofluorobenzene
Concen: 54.176 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

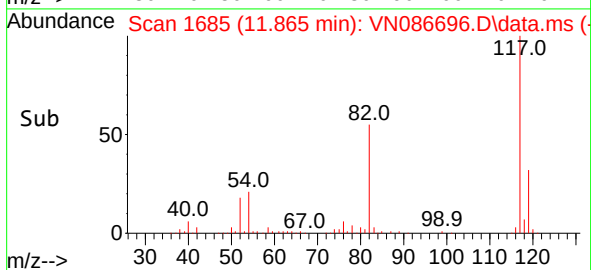
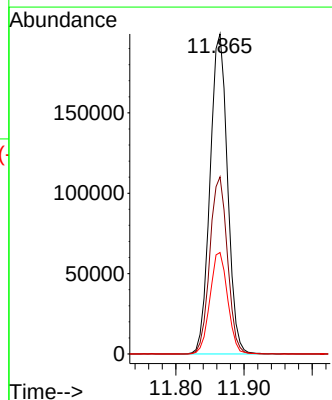
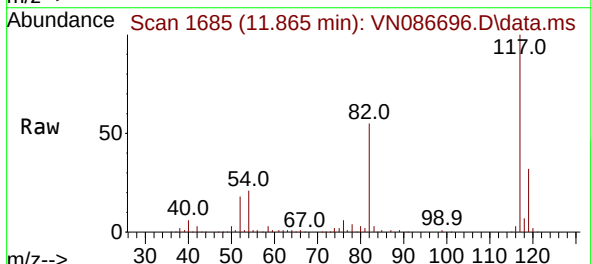
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

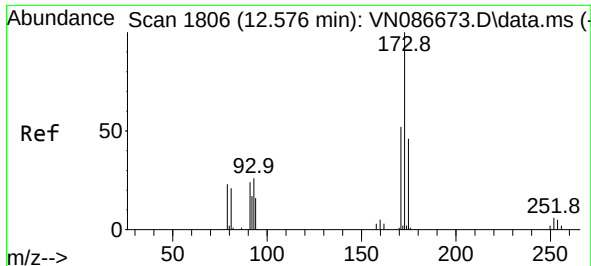
Tgt Ion: 95 Resp: 168160
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.4
176 69.8 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion: 117 Resp: 354962
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 31.7 25.4 38.2

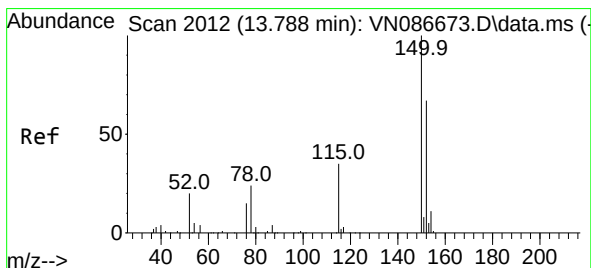
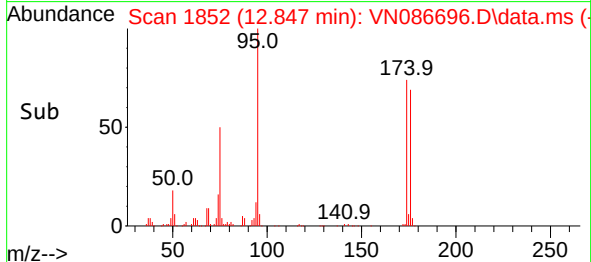
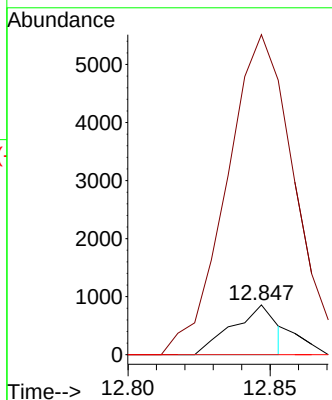
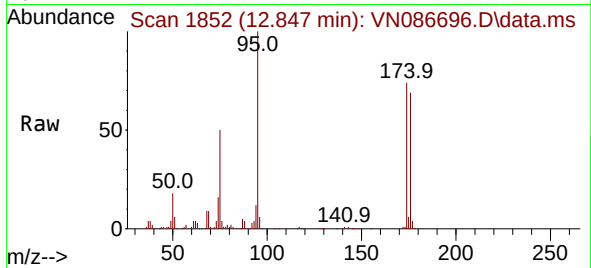




#71
Bromoform
Concen: 0.519 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

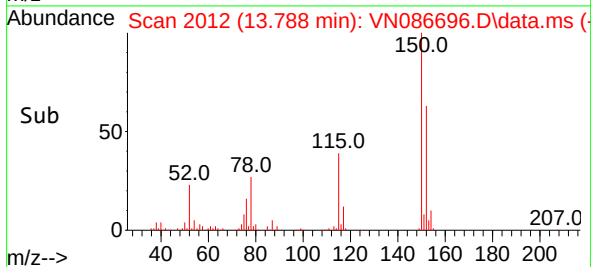
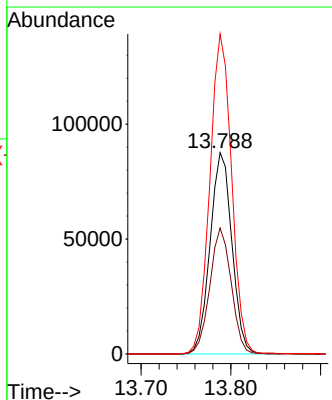
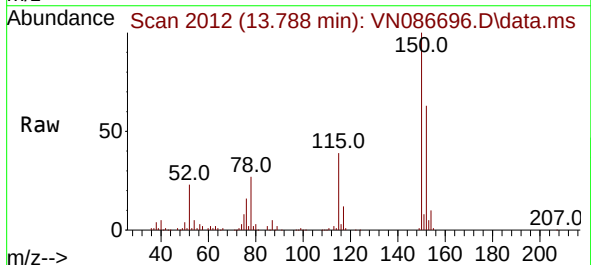
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

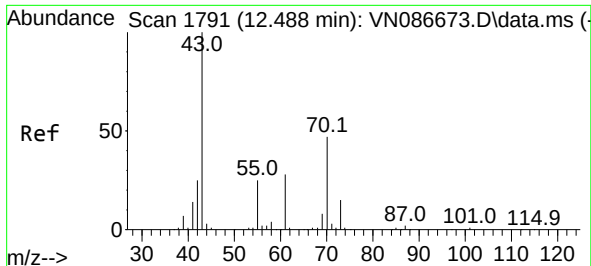
Tgt Ion:173 Resp: 927
Ion Ratio Lower Upper
173 100
175 786.9 23.4 70.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

Tgt Ion:152 Resp: 147948
Ion Ratio Lower Upper
152 100
115 61.2 30.0 90.1
150 158.2 0.0 347.8

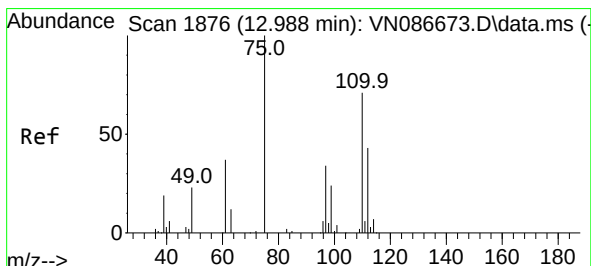
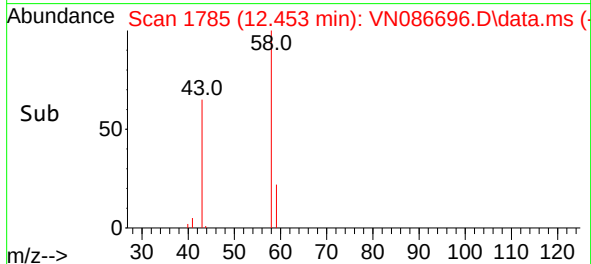
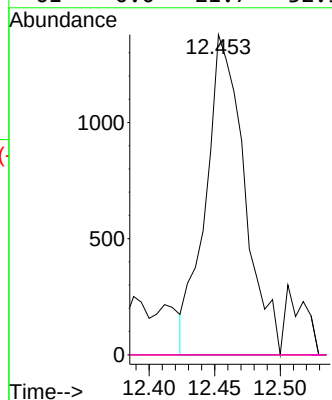
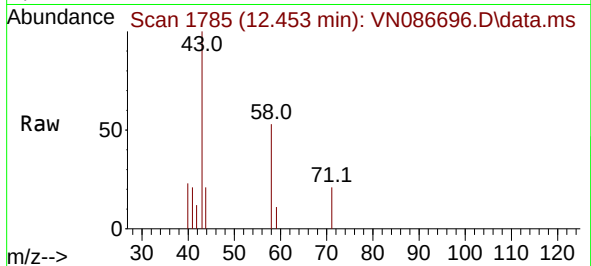




#74
N-amy1 acetate
Concen: 0.593 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

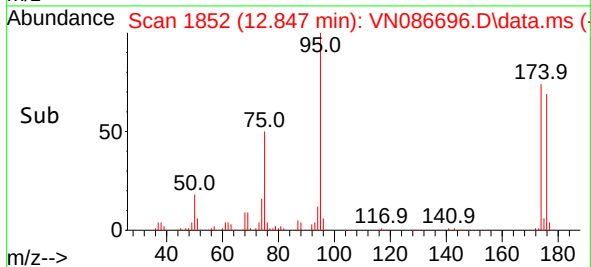
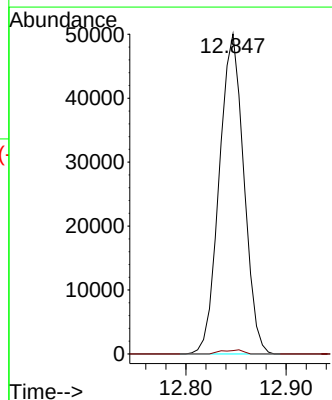
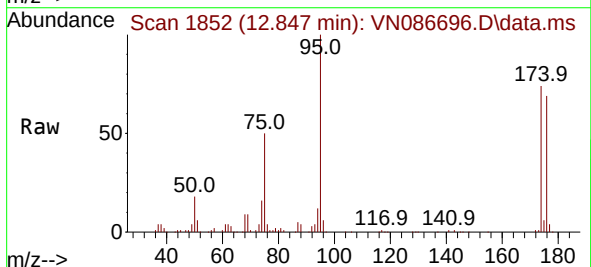
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#13

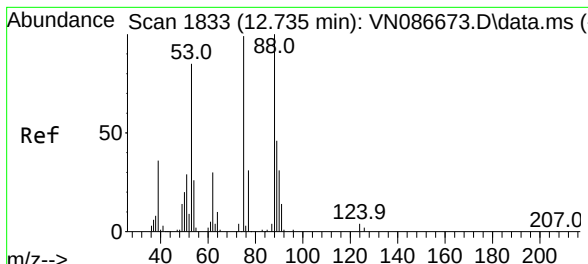
Tgt Ion: 43	Resp:	2831
Ion	Ratio	Lower Upper
43	100	
70	0.0	37.9 56.9#
55	0.0	20.5 30.7#
61	0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 25.442 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086696.D
Acq: 19 May 2025 17:53

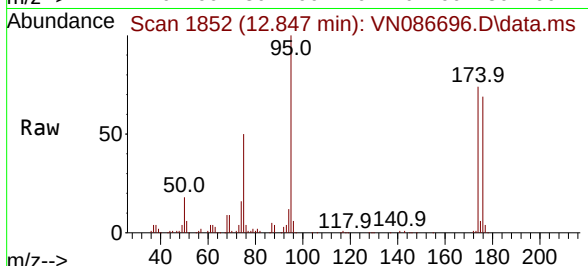
Tgt Ion: 75	Resp:	85130
Ion	Ratio	Lower Upper
75	100	
77	1.1	96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.208 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086696.D
 Acq: 19 May 2025 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#13



Tgt Ion: 75 Resp: 85130
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

