

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086692.D
 Acq On : 19 May 2025 16:16
 Operator : JC\MD
 Sample : PB168034ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#09

Quant Time: May 20 03:20:52 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

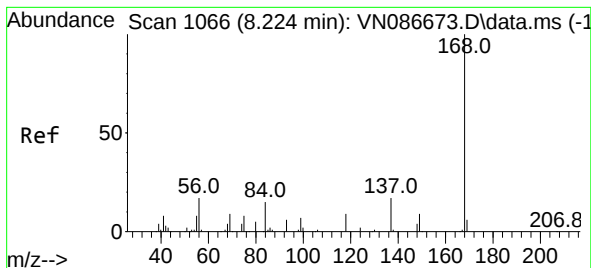
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	183161	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	357767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	149365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131653	52.017	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.040%			
35) Dibromofluoromethane	8.165	113	109211	51.257	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.520%			
50) Toluene-d8	10.565	98	467991	53.003	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.000%			
62) 4-Bromofluorobenzene	12.847	95	167934	53.865	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.740%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	951	0.318	ug/l	89
5) Bromomethane	2.977	94	445	0.287	ug/l #	74
16) Acetone	4.430	43	26808	28.316	ug/l	98
18) Methyl Acetate	5.024	43	4194	1.583	ug/l #	85
20) Methylene Chloride	5.271	84	3418	1.368	ug/l #	90
25) 2-Butanone	7.488	43	3152	2.155	ug/l	99
29) Tetrahydrofuran	7.853	42	503	0.527	ug/l #	39
31) Cyclohexane	8.218	56	3722	0.980	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14826	4.717	ug/l #	48
37) Ethyl Acetate	7.488	43	3152	0.993	ug/l #	67
38) Carbon Tetrachloride	8.218	117	18194	5.876	ug/l #	15
41) Methacrylonitrile	7.859	41	371	0.216	ug/l #	21
43) Isopropyl Acetate	8.688	43	51939	8.161	ug/l #	72
45) 1,2-Dichloropropane	9.741	63	1091	0.448	ug/l #	42
48) Methyl methacrylate	9.735	41	72218	29.284	ug/l #	37
51) 4-Methyl-2-Pentanone	10.471	43	6036	1.881	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	35780	9.143	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3468	0.847	ug/l #	42
59) 2-Hexanone	11.200	43	59028	25.186	ug/l #	41
71) Bromoform	12.847	173	854	0.482	ug/l #	1
74) N-amyl acetate	12.453	43	3412	0.708	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	83079	24.594	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83079	62.067	ug/l #	15

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

Quant Time: May 20 03:20:52 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086692.D

Acq: 19 May 2025 16:16

Instrument :

MSVOA_N

ClientSampleId :

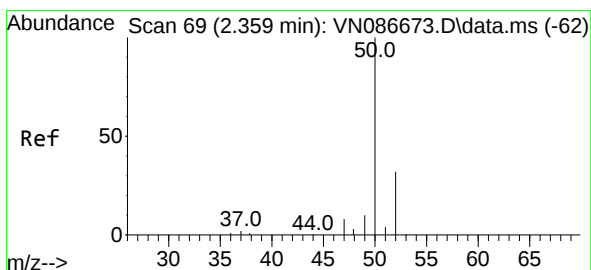
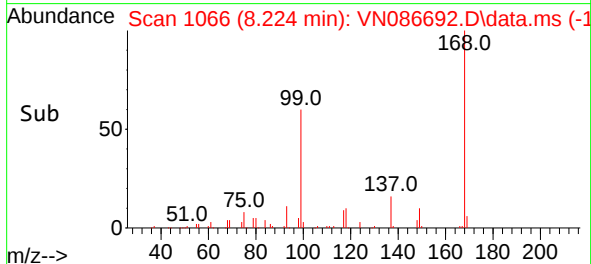
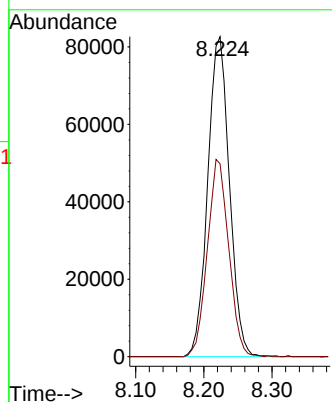
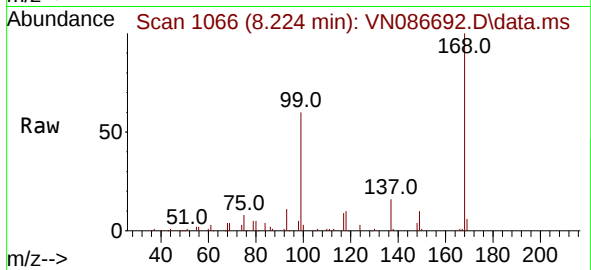
PB168034ZHE#09

Tgt Ion:168 Resp: 183161

Ion Ratio Lower Upper

168 100

99 60.3 47.0 70.4



#3

Chloromethane

Concen: 0.318 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN086692.D

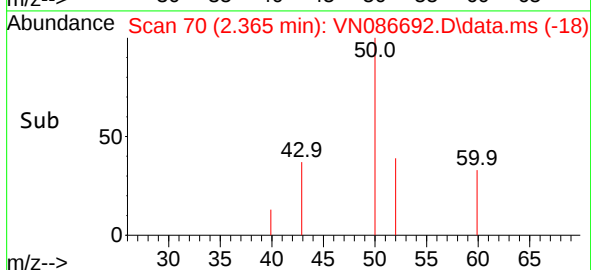
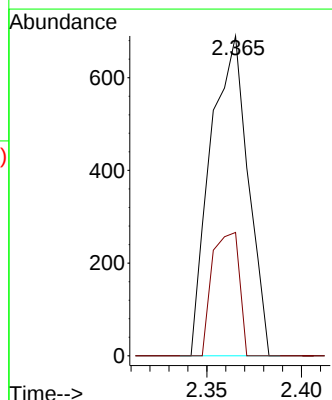
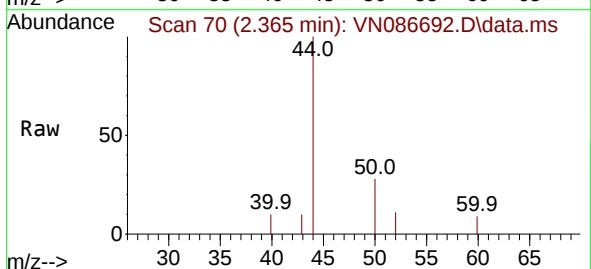
Acq: 19 May 2025 16:16

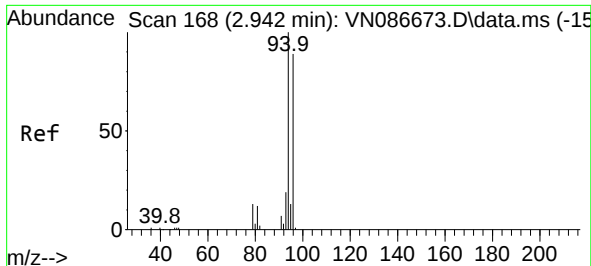
Tgt Ion: 50 Resp: 951

Ion Ratio Lower Upper

50 100

52 38.6 25.9 38.9

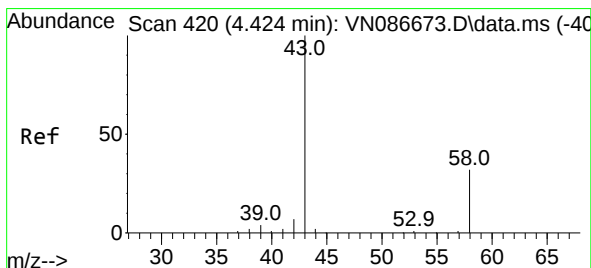
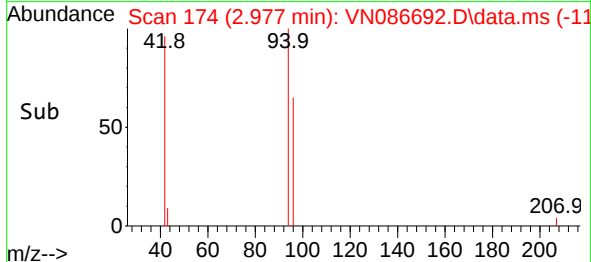
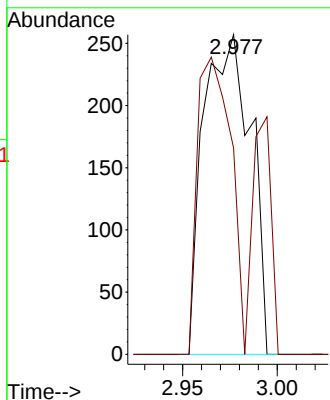
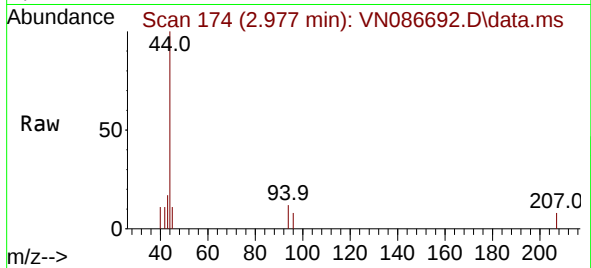




#5
Bromomethane
Concen: 0.287 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

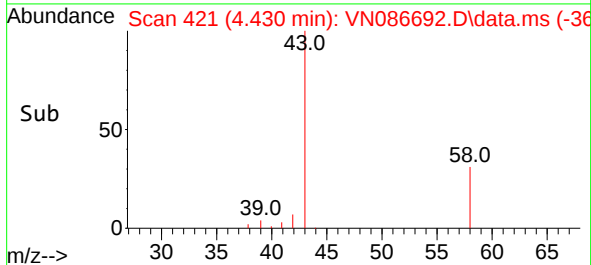
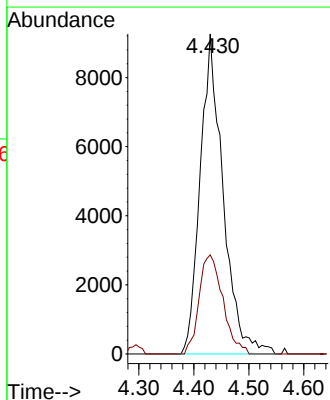
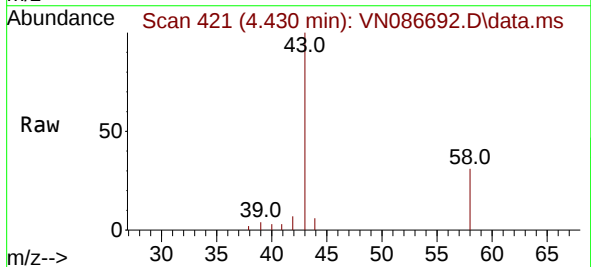
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

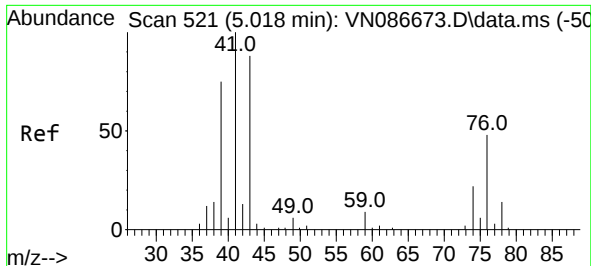
Tgt Ion: 94 Resp: 445
Ion Ratio Lower Upper
94 100
96 64.6 71.2 106.8#



#16
Acetone
Concen: 28.316 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 43 Resp: 26808
Ion Ratio Lower Upper
43 100
58 31.0 25.8 38.6

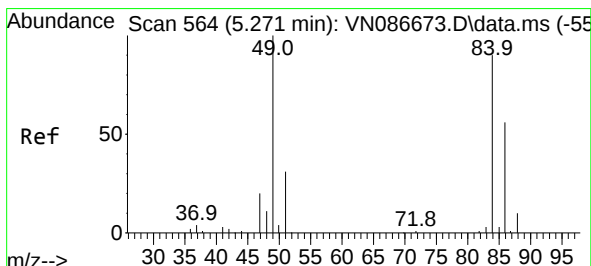
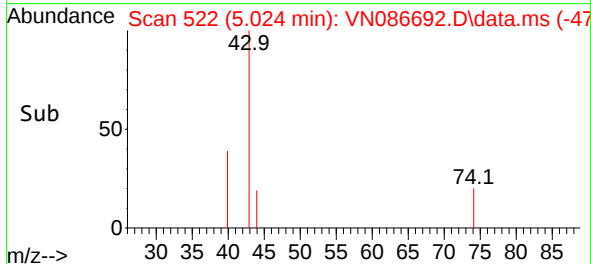
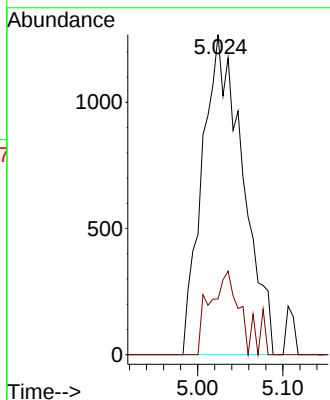
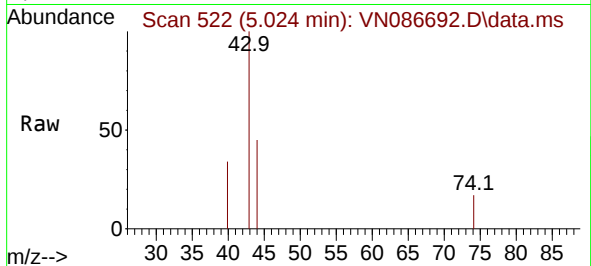




#18
Methyl Acetate
Concen: 1.583 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

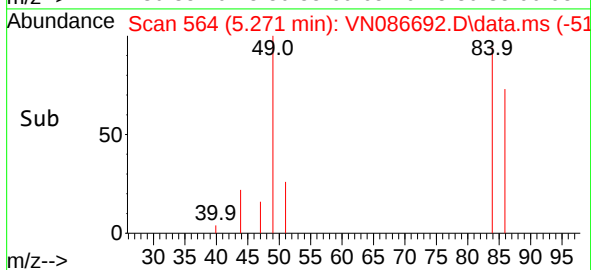
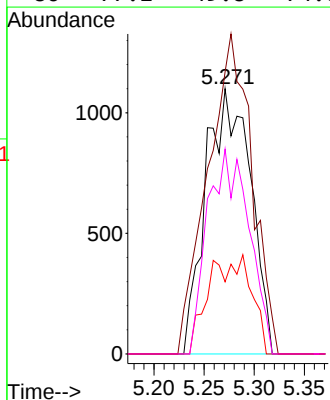
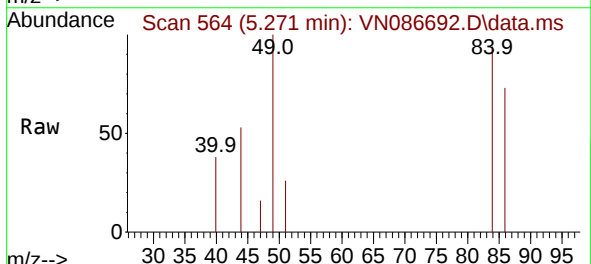
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

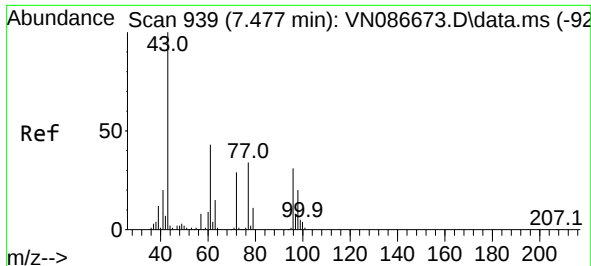
Tgt Ion: 43 Resp: 4194
Ion Ratio Lower Upper
43 100
74 17.8 20.5 30.7#



#20
Methylene Chloride
Concen: 1.368 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 84 Resp: 3418
Ion Ratio Lower Upper
84 100
49 106.3 88.8 133.2
51 27.2 27.8 41.6#
86 77.2 49.8 74.6#

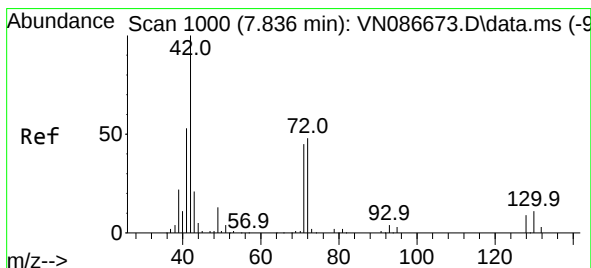
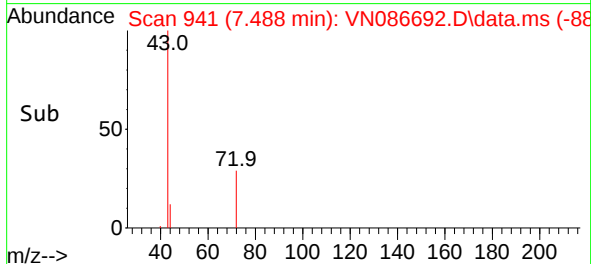
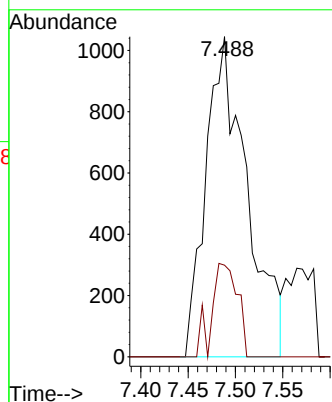
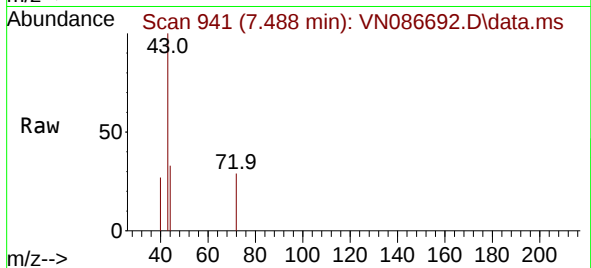




#25
2-Butanone
Concen: 2.155 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

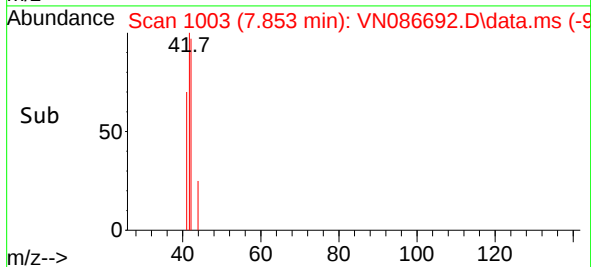
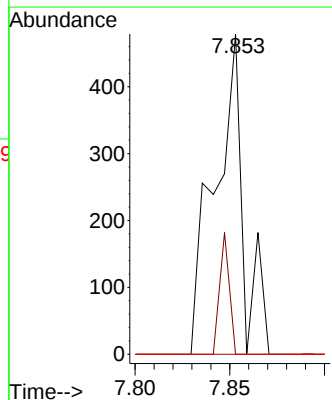
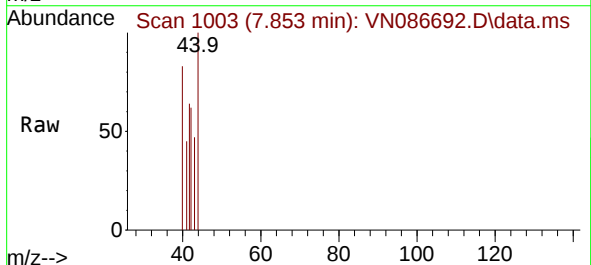
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

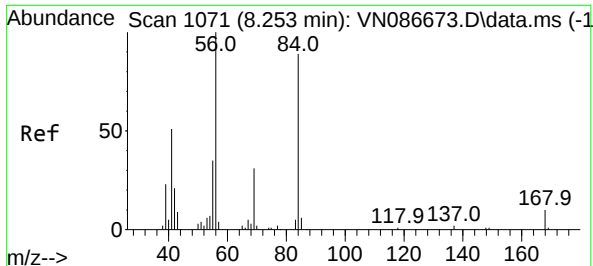
Tgt Ion: 43 Resp: 3152
Ion Ratio Lower Upper
43 100
72 28.6 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.527 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

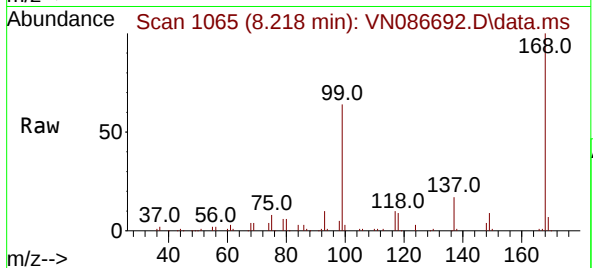
Tgt Ion: 42 Resp: 503
Ion Ratio Lower Upper
42 100
72 12.7 38.7 58.1#
71 0.0 36.2 54.4#





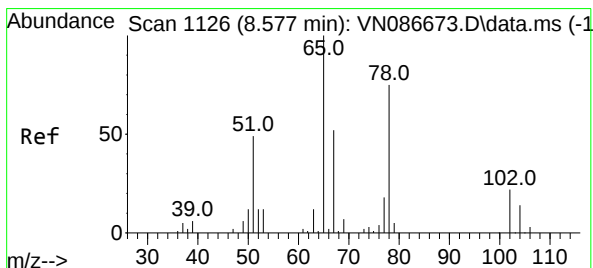
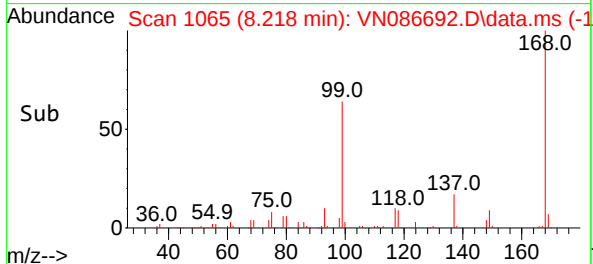
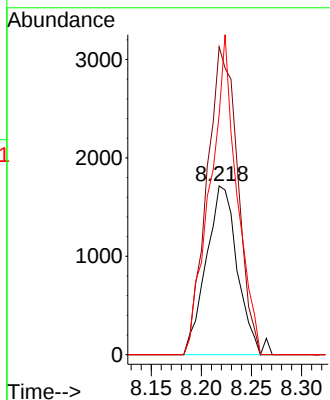
#31
Cyclohexane
Concen: 0.980 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09



Tgt Ion: 56 Resp: 3722

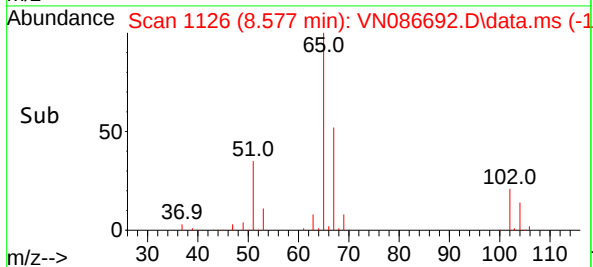
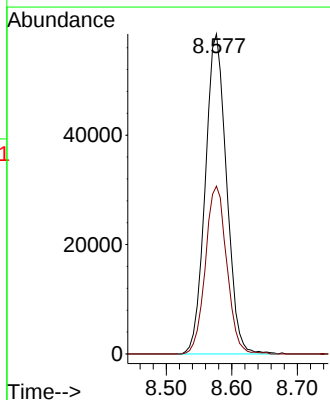
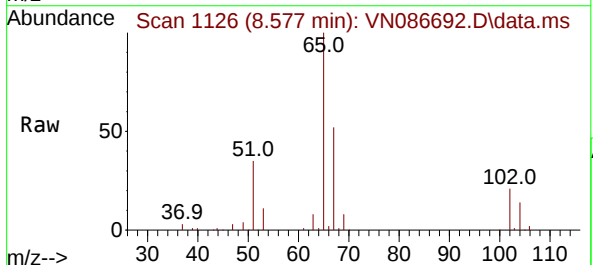
Ion	Ratio	Lower	Upper
56	100		
69	182.3	25.0	37.6#
84	142.0	71.0	106.4#

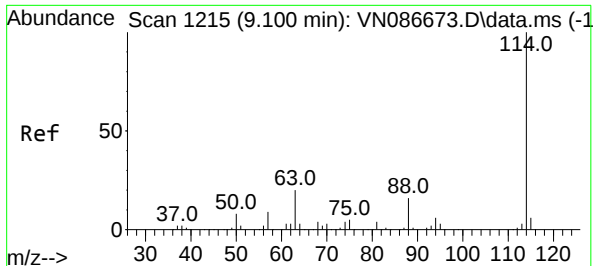


#33
1,2-Dichloroethane-d4
Concen: 52.017 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 65 Resp: 131653

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.4

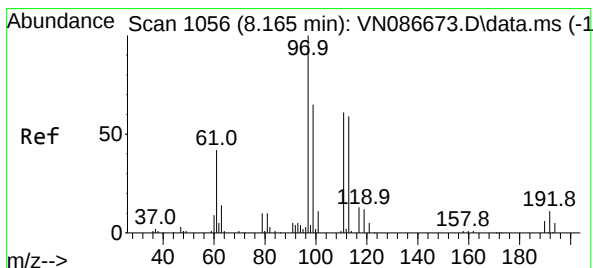
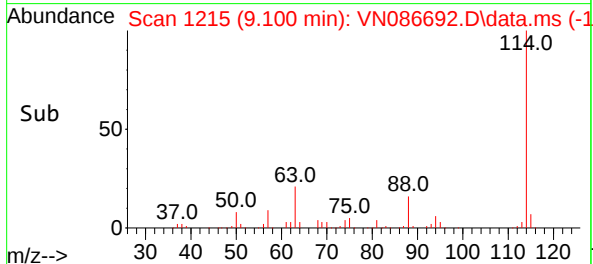
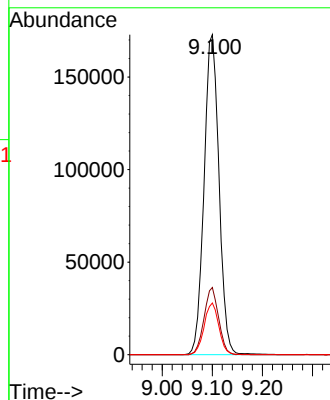
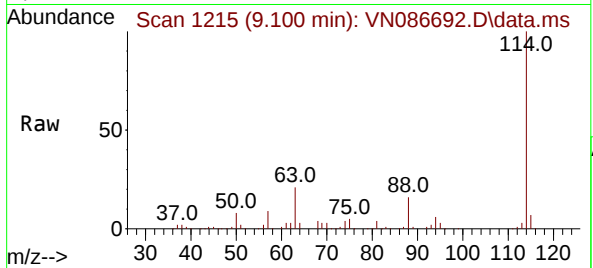




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

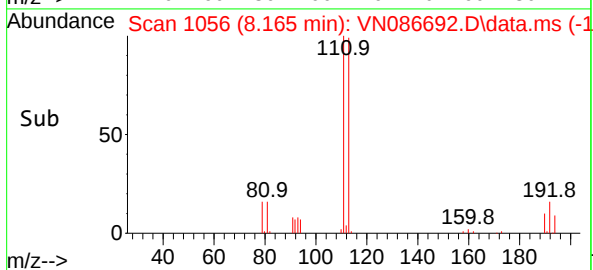
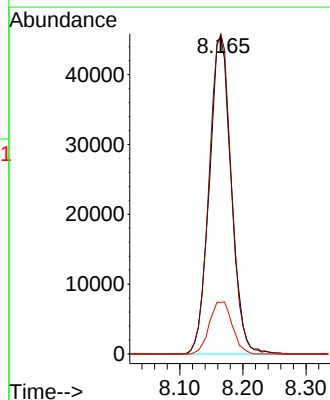
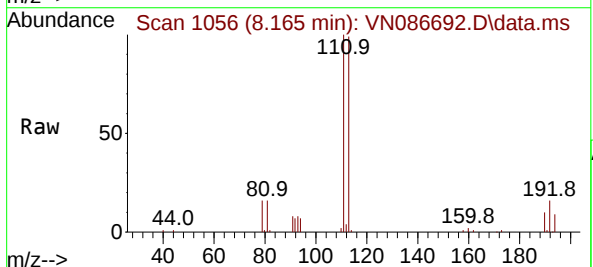
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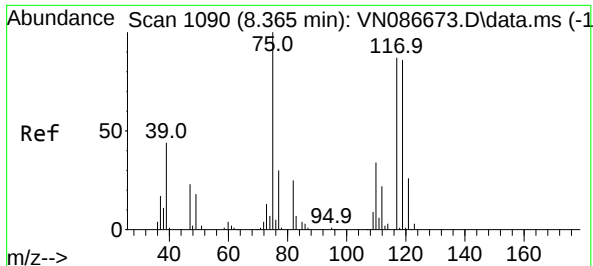
Tgt Ion:114 Resp: 357767
Ion Ratio Lower Upper
114 100
63 21.0 0.0 40.2
88 16.2 0.0 31.2



#35
Dibromofluoromethane
Concen: 51.257 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion:113 Resp: 109211
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.2
192 17.2 13.8 20.8

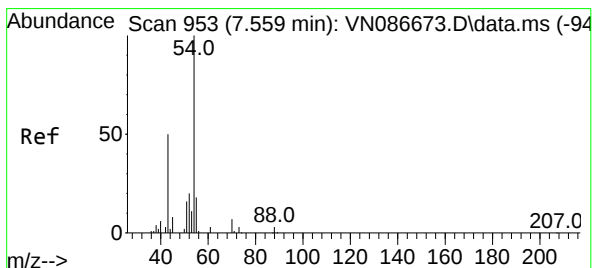
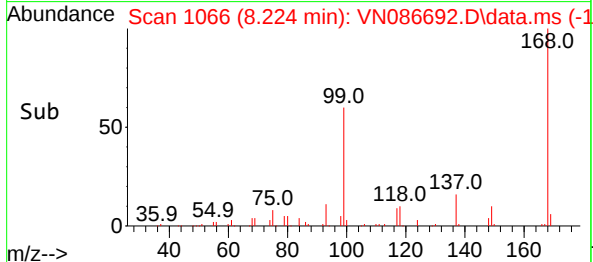
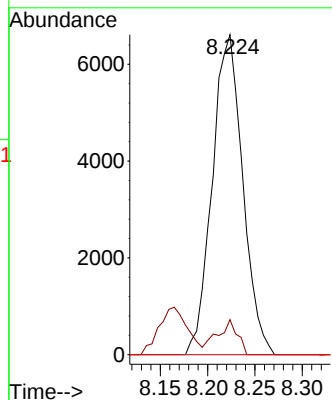
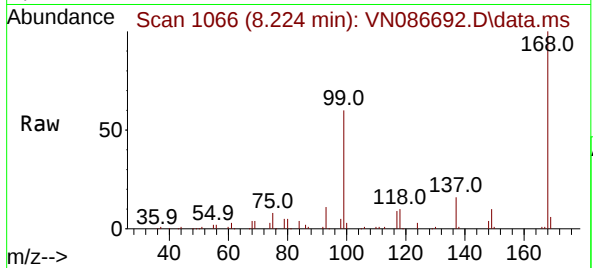




#36
1,1-Dichloropropene
Concen: 4.717 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

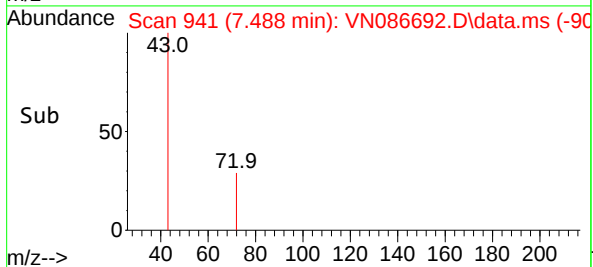
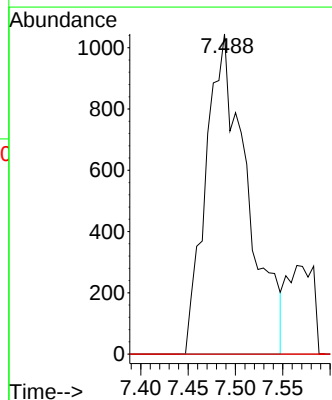
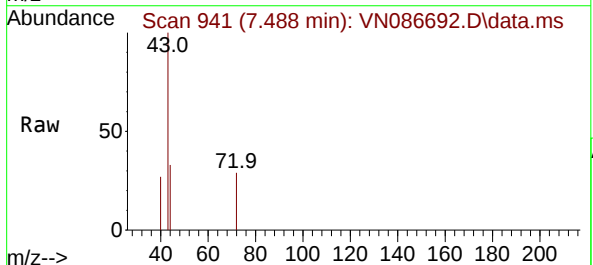
Instrument :
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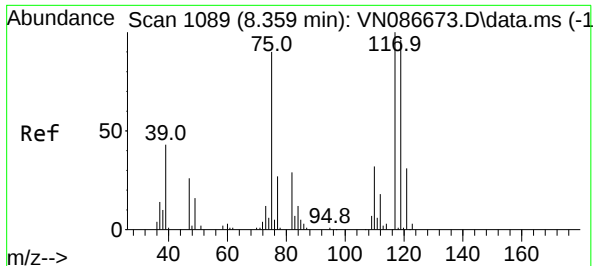
Tgt Ion: 75 Resp: 14826
Ion Ratio Lower Upper
75 100
110 7.3 17.5 52.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 0.993 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.071 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

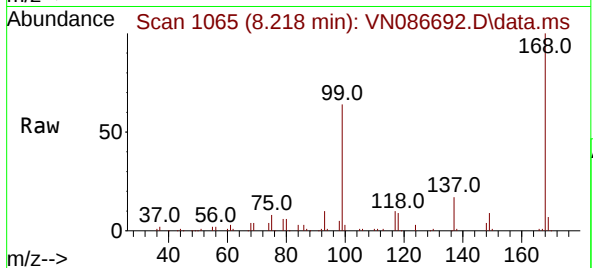
Tgt Ion: 43 Resp: 3152
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#



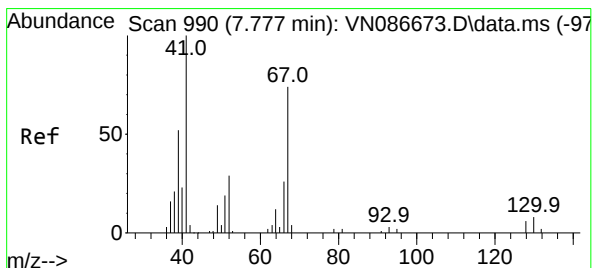
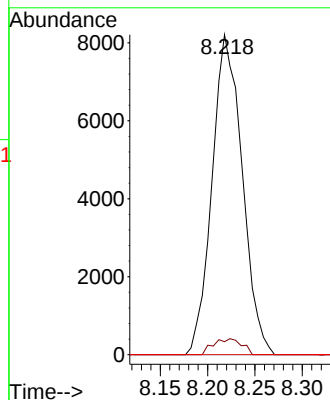
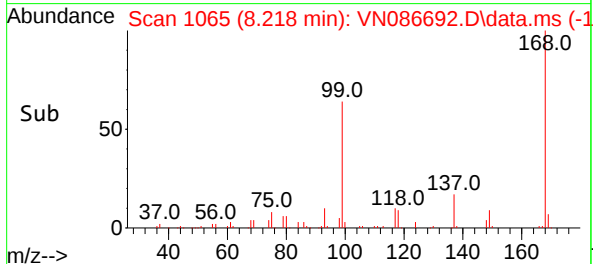


#38
Carbon Tetrachloride
Concen: 5.876 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

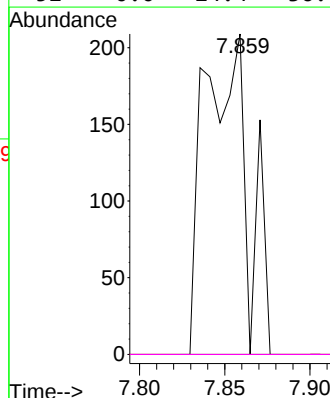
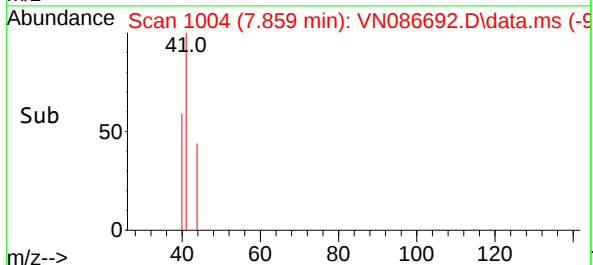
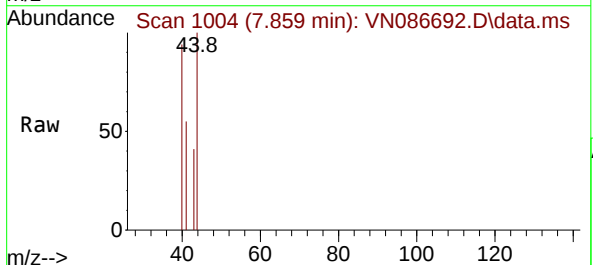


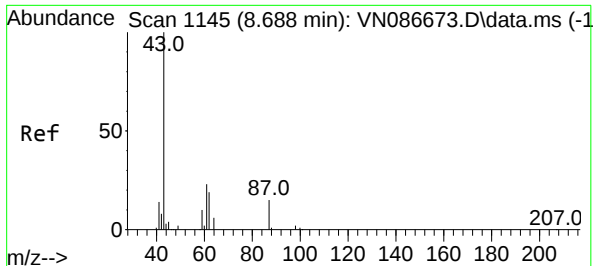
Tgt Ion:117 Resp: 18194
Ion Ratio Lower Upper
117 100
119 4.1 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.216 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.082 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

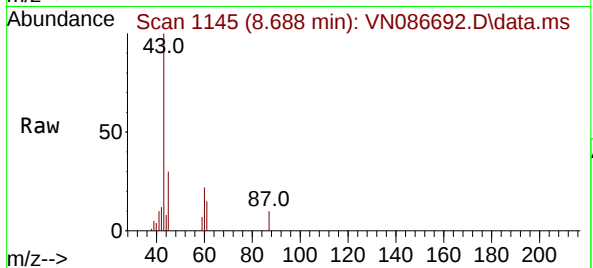
Tgt Ion: 41 Resp: 371
Ion Ratio Lower Upper
41 100
39 0.0 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#



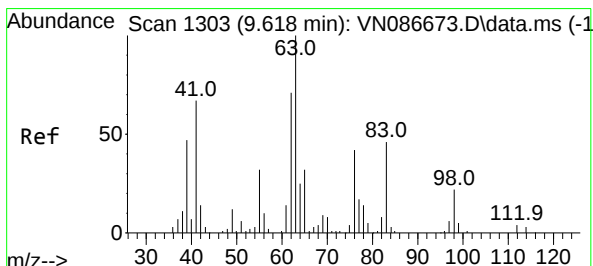
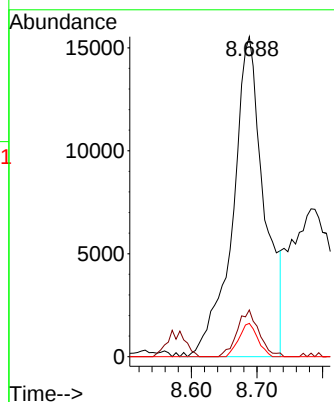
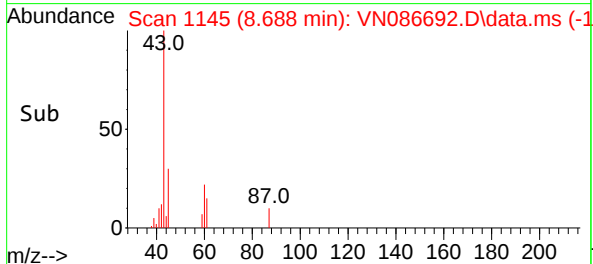


#43
Isopropyl Acetate
Concen: 8.161 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

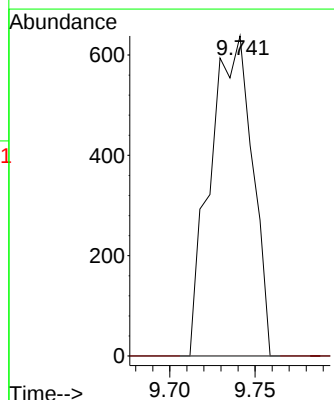
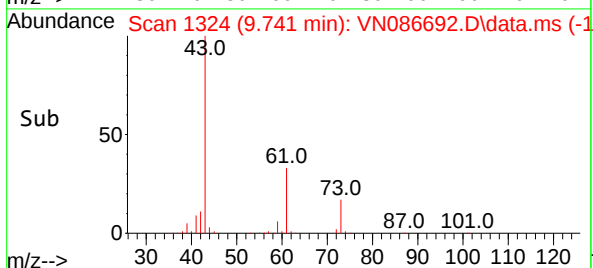
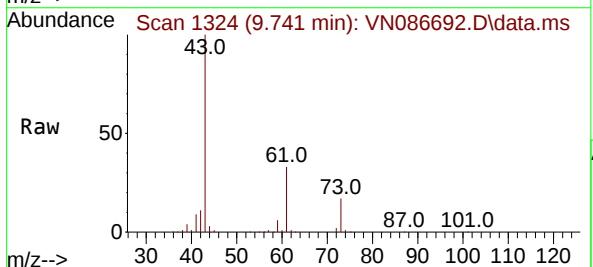


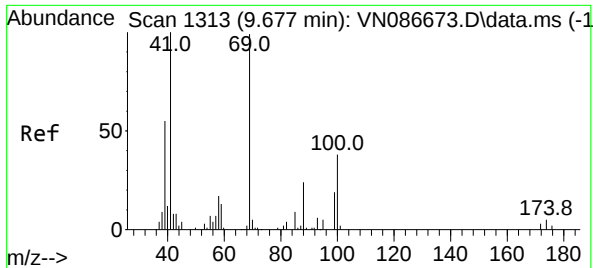
Tgt Ion: 43 Resp: 51939
Ion Ratio Lower Upper
43 100
61 10.1 21.4 32.2#
87 6.2 11.1 16.7#



#45
1,2-Dichloropropane
Concen: 0.448 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 63 Resp: 1091
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.6#

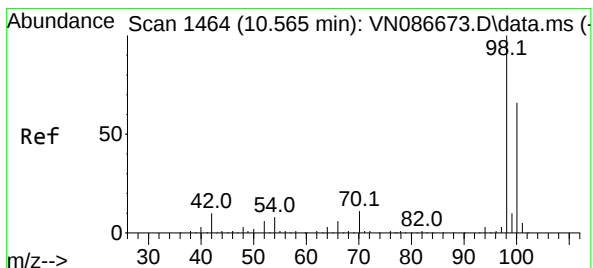
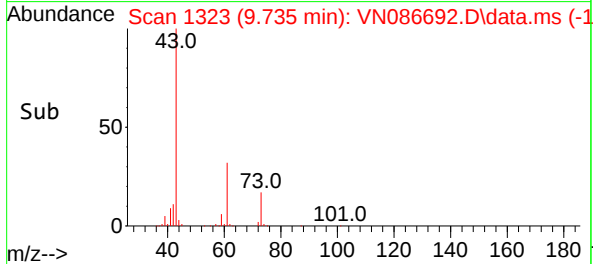
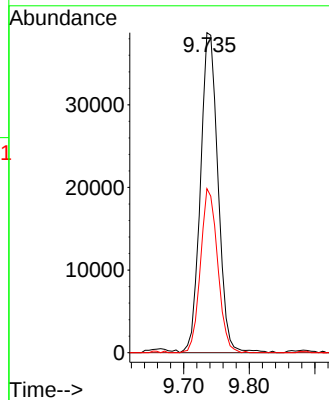
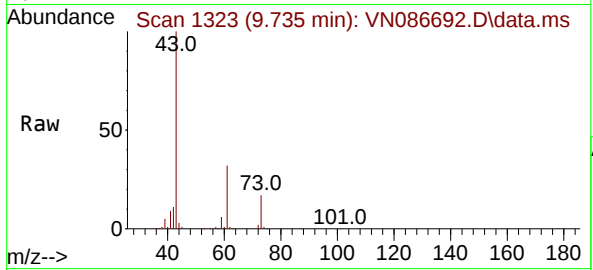




#48
Methyl methacrylate
Concen: 29.284 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

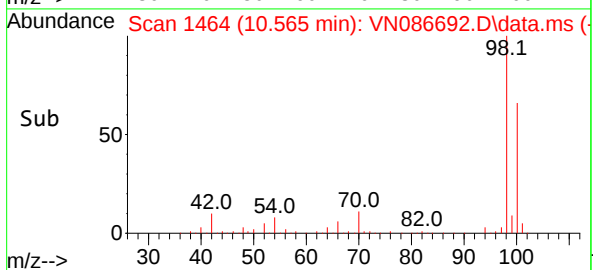
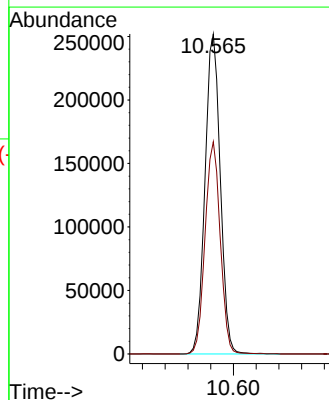
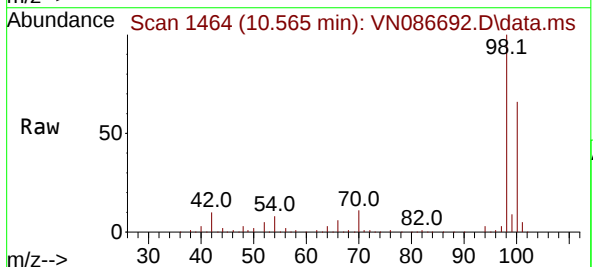
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

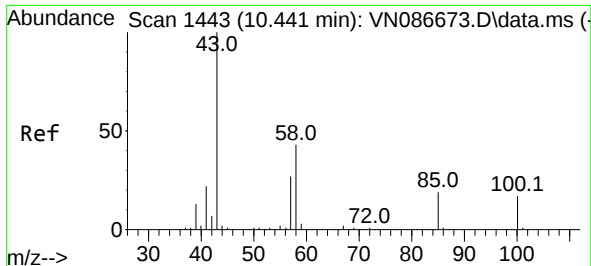
Tgt Ion: 41 Resp: 72218
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 50.2 44.1 66.1



#50
Toluene-d8
Concen: 53.003 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 98 Resp: 467991
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3

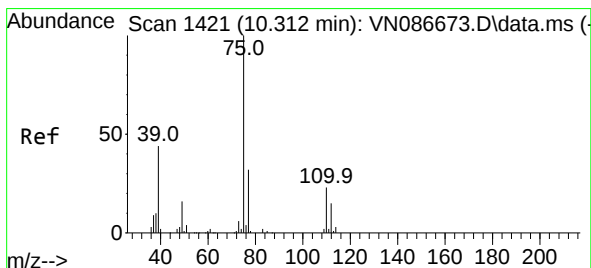
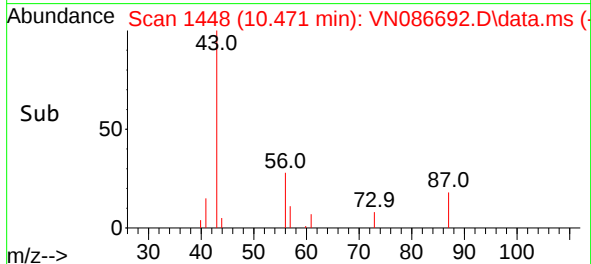
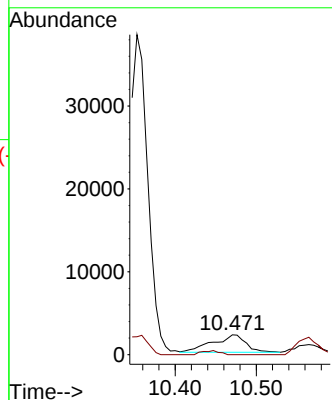
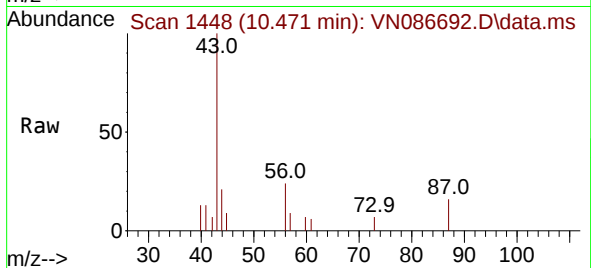




#51
4-Methyl-2-Pentanone
Concen: 1.881 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

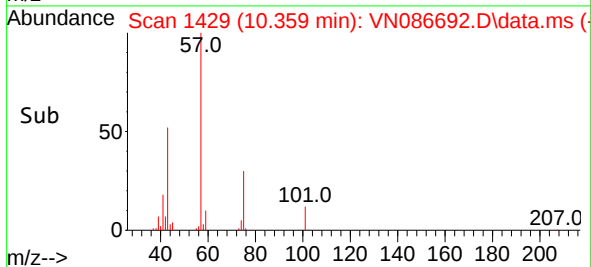
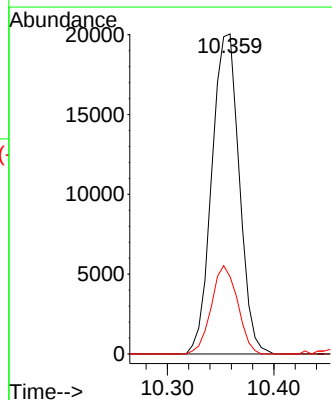
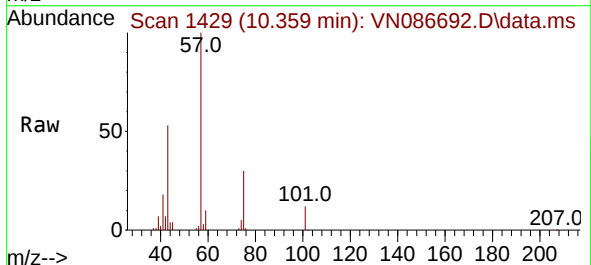
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

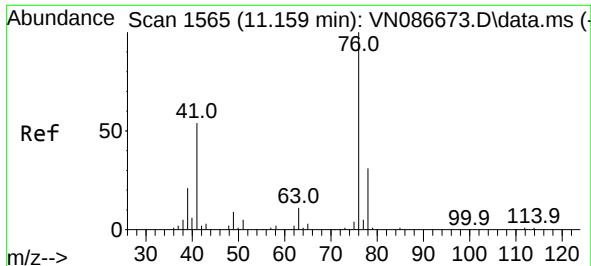
Tgt Ion: 43 Resp: 6036
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 9.143 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 75 Resp: 35780
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 24.1 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.847 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086692.D

Acq: 19 May 2025 16:16

Instrument :

MSVOA_N

ClientSampleId :

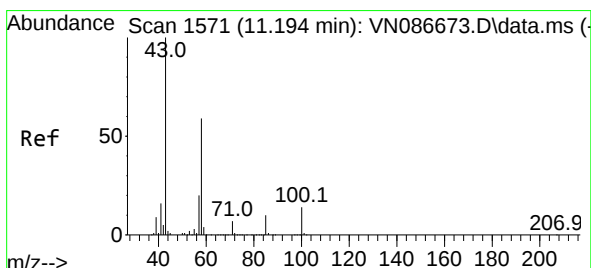
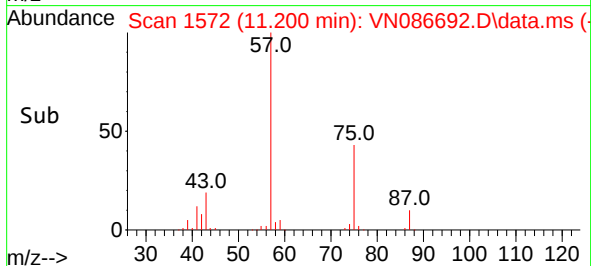
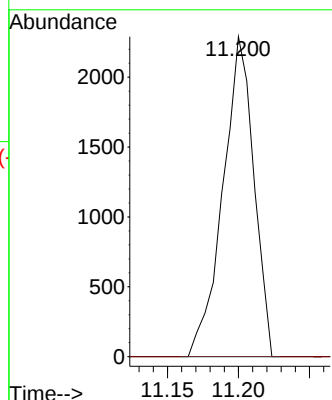
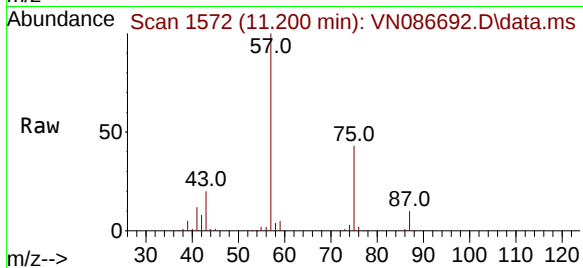
PB168034ZHE#09

Tgt Ion: 76 Resp: 3468

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 25.186 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086692.D

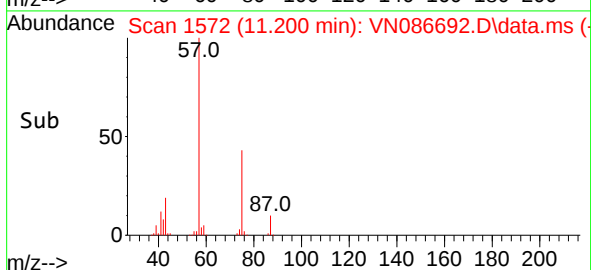
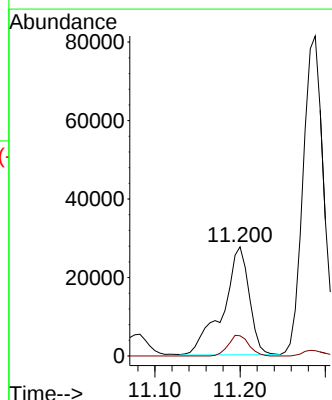
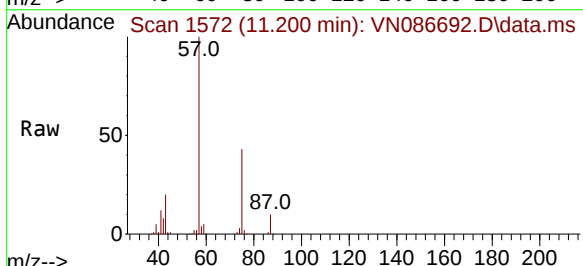
Acq: 19 May 2025 16:16

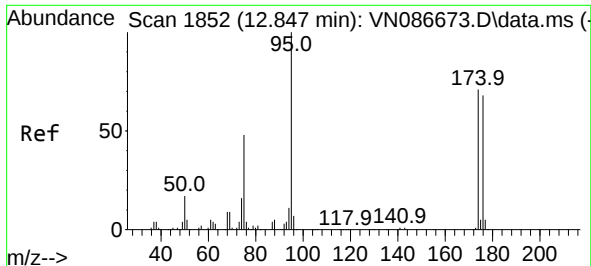
Tgt Ion: 43 Resp: 59028

Ion Ratio Lower Upper

43 100

58 14.9 29.8 89.5#

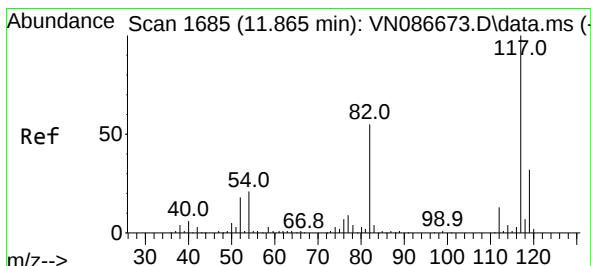
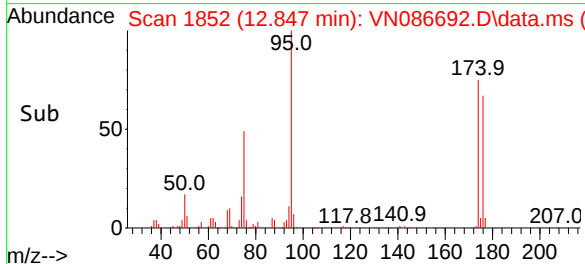
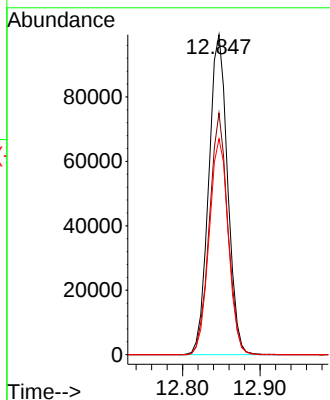
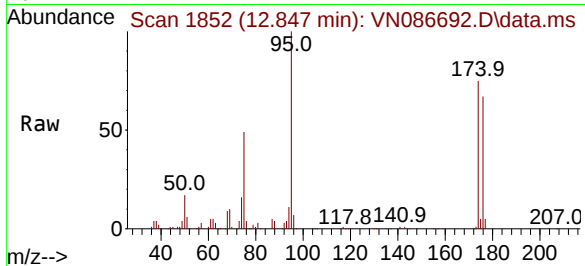




#62
4-Bromofluorobenzene
Concen: 53.865 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

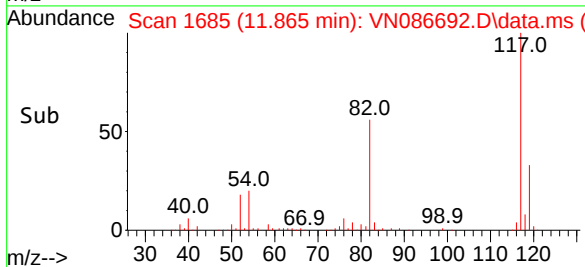
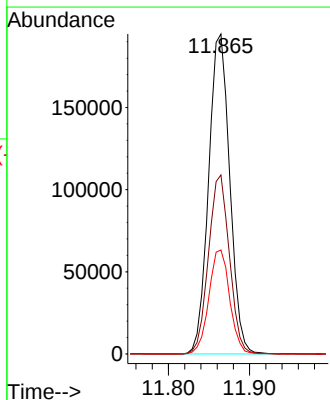
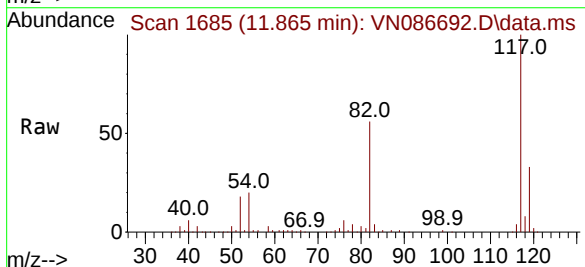
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

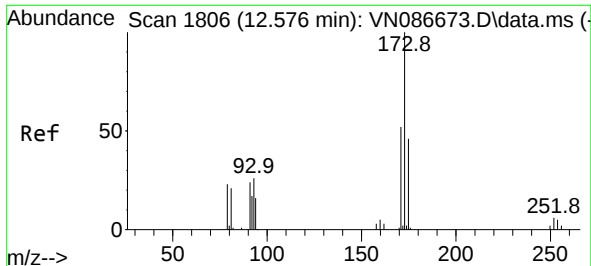
Tgt Ion: 95 Resp: 167934
Ion Ratio Lower Upper
95 100
174 73.8 0.0 145.4
176 68.4 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion: 117 Resp: 352141
Ion Ratio Lower Upper
117 100
82 55.9 44.2 66.2
119 32.5 25.4 38.2

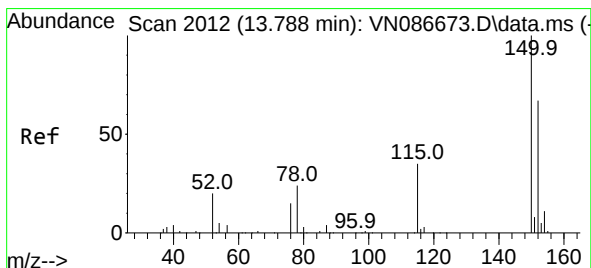
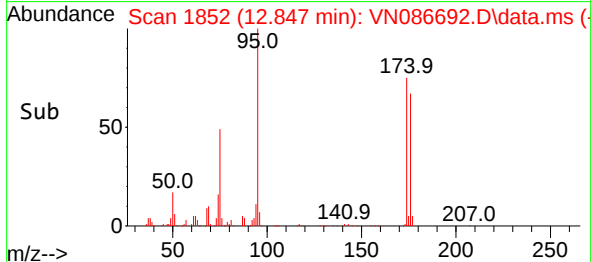
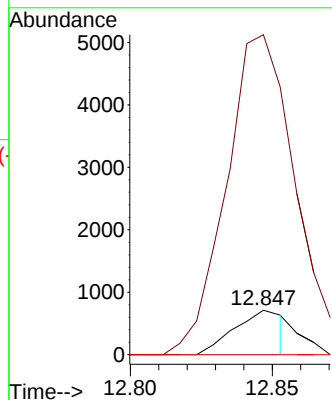
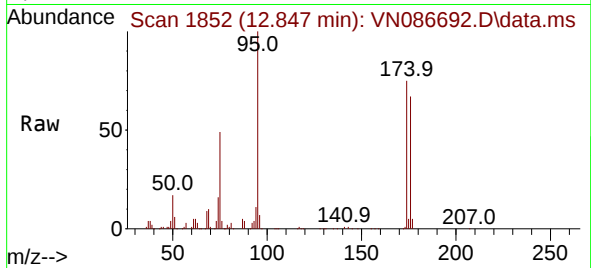




#71
Bromoform
Concen: 0.482 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

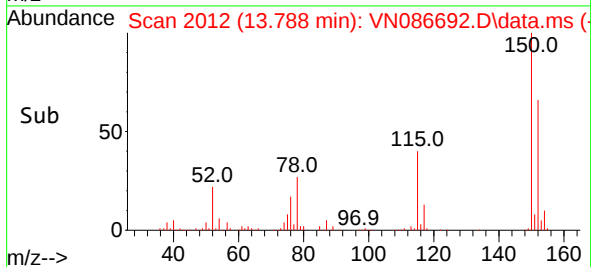
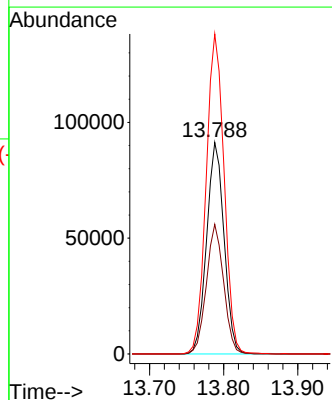
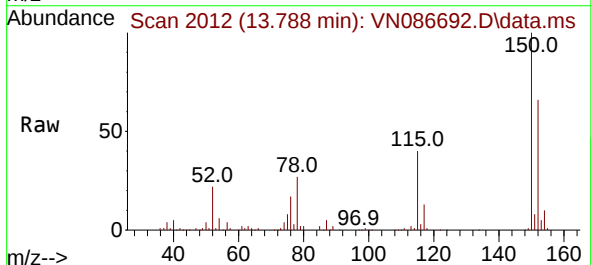
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

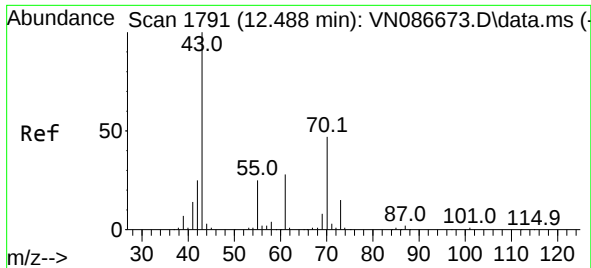
Tgt Ion:173 Resp: 854
Ion Ratio Lower Upper
173 100
175 817.7 23.4 70.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

Tgt Ion:152 Resp: 149365
Ion Ratio Lower Upper
152 100
115 60.6 30.0 90.1
150 154.9 0.0 347.8

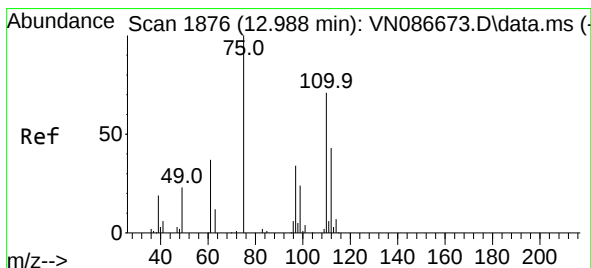
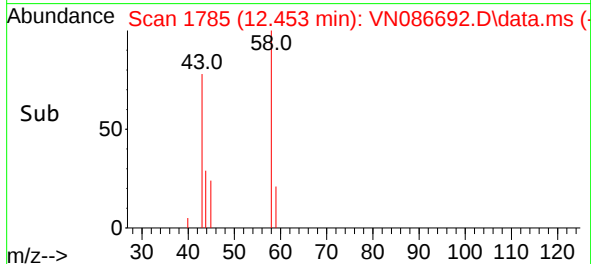
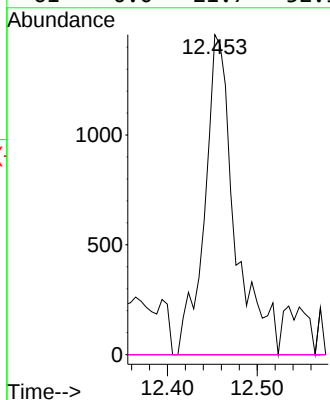
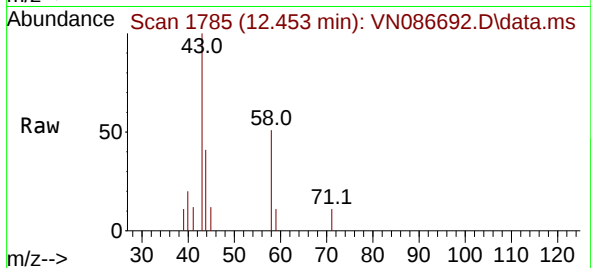




#74
N-amy1 acetate
Concen: 0.708 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

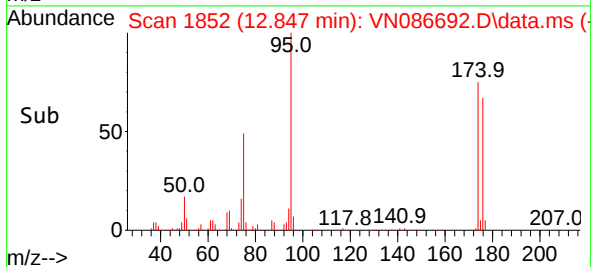
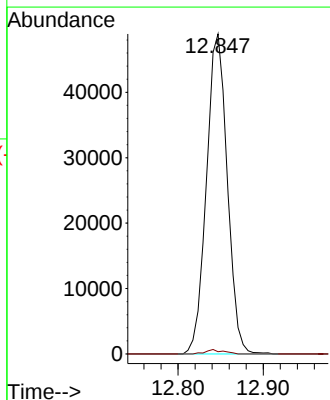
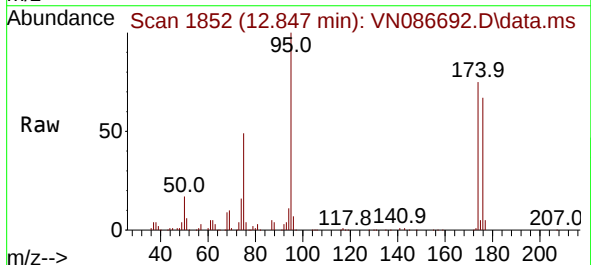
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#09

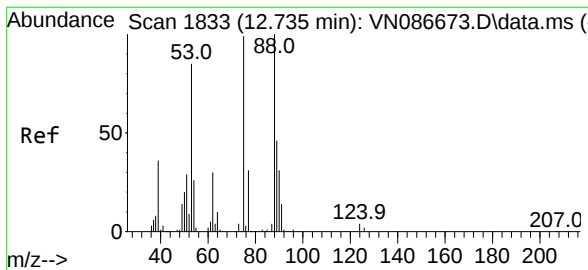
Tgt Ion:	43	Resp:	3412
Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.9	56.9#
55	0.0	20.5	30.7#
61	0.0	21.7	32.5#



#76
1,2,3-Trichloropropane
Concen: 24.594 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086692.D
Acq: 19 May 2025 16:16

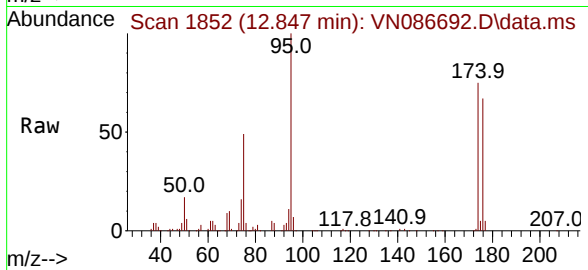
Tgt Ion:	75	Resp:	83079
Ion	Ratio	Lower	Upper
75	100		
77	1.2	96.0	288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.067 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086692.D
 Acq: 19 May 2025 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#09



Tgt Ion: 75 Resp: 83079
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

