

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086698.D
 Acq On : 19 May 2025 18:41
 Operator : JC\MD
 Sample : PB168034ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#15

Quant Time: May 20 03:23:21 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)

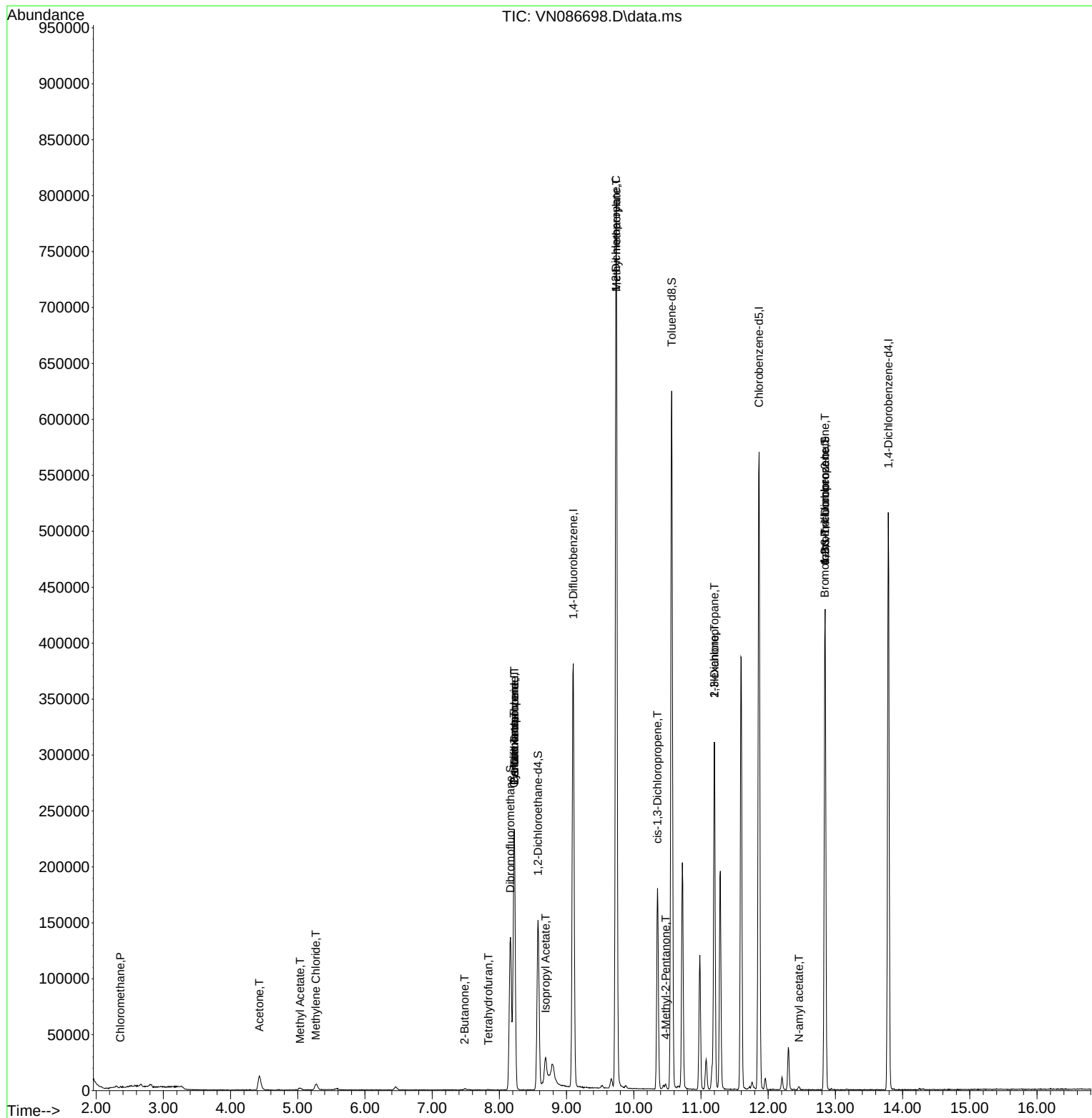
Internal Standards						
1) Pentafluorobenzene	8.224	168	173192	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	342667	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	339152	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125810	52.570	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.140%			
35) Dibromofluoromethane	8.165	113	104413	51.165	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.320%			
50) Toluene-d8	10.565	98	444595	52.572	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.140%			
62) 4-Bromofluorobenzene	12.847	95	161512	54.088	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.180%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	767	0.271	ug/l #	42
16) Acetone	4.430	43	25630	28.630	ug/l	92
18) Methyl Acetate	5.036	43	4214	1.682	ug/l #	86
20) Methylene Chloride	5.271	84	4420	1.871	ug/l	90
25) 2-Butanone	7.482	43	2332	1.686	ug/l	93
29) Tetrahydrofuran	7.835	42	210	0.233	ug/l #	30
31) Cyclohexane	8.218	56	3685	1.026	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13786	4.580	ug/l #	47
38) Carbon Tetrachloride	8.224	117	16983	5.726	ug/l #	17
43) Isopropyl Acetate	8.688	43	44022	7.222	ug/l #	74
45) 1,2-Dichloropropane	9.735	63	1190	0.510	ug/l #	42
48) Methyl methacrylate	9.741	41	70274	29.751	ug/l #	37
51) 4-Methyl-2-Pentanone	10.476	43	3372	1.097	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	34136	9.107	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	3363	0.857	ug/l #	42
59) 2-Hexanone	11.200	43	56919	25.356	ug/l #	41
71) Bromoform	12.841	173	679	0.398	ug/l #	1
74) N-amyl acetate	12.459	43	2888	0.629	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	79219	24.613	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	79219	62.114	ug/l #	15

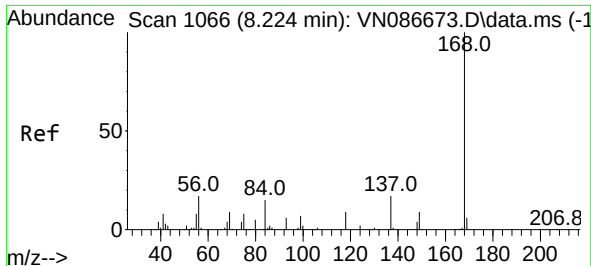
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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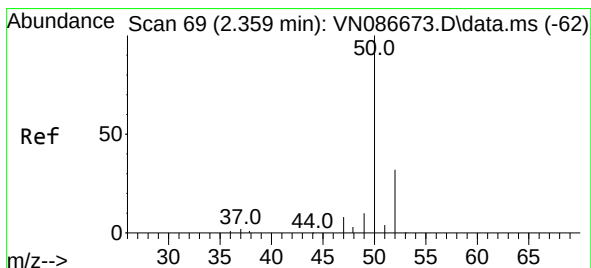
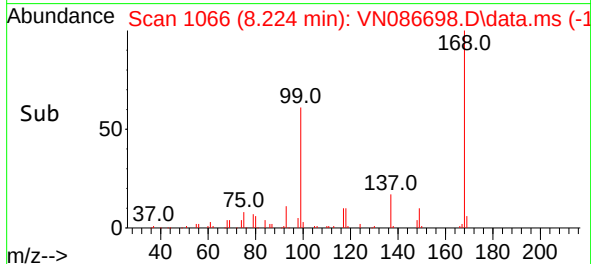
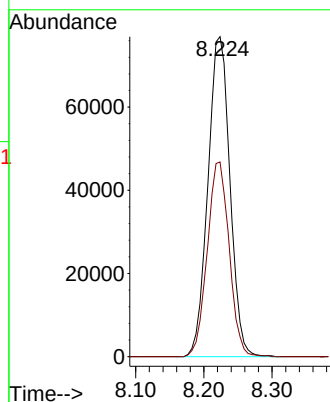
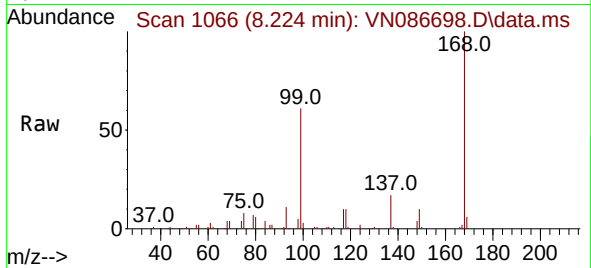




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

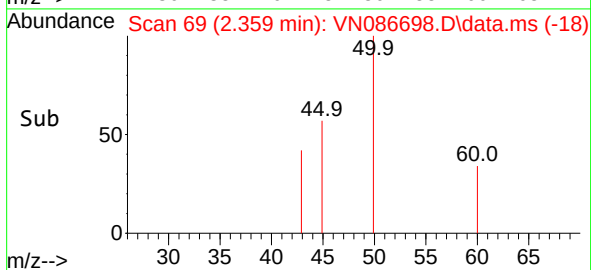
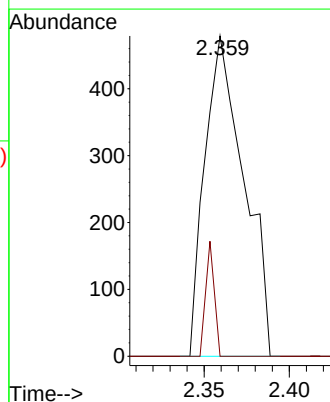
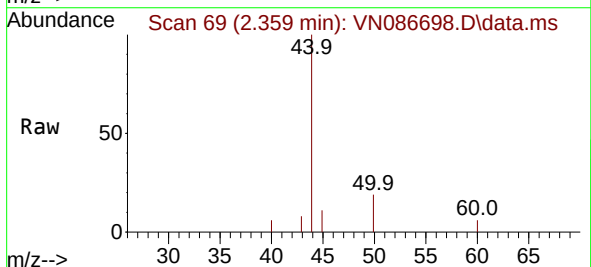
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

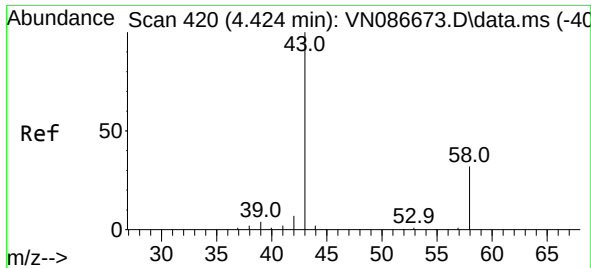
Tgt Ion:168 Resp: 173192
Ion Ratio Lower Upper
168 100
99 60.9 47.0 70.4



#3
Chloromethane
Concen: 0.271 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 50 Resp: 767
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

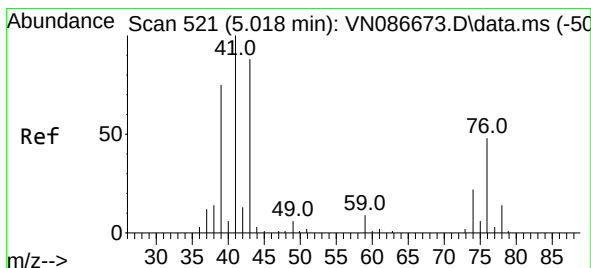
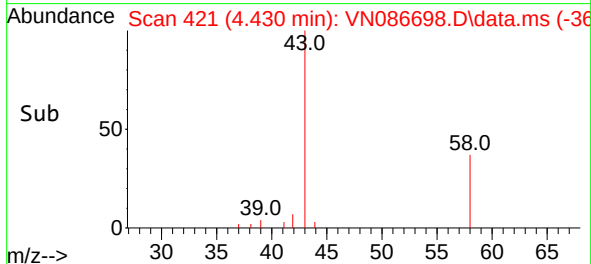
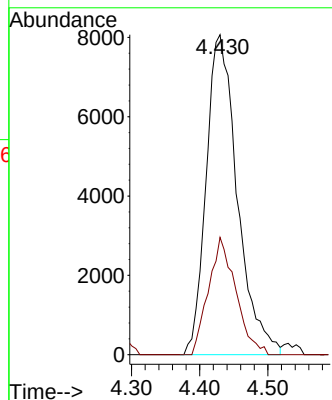
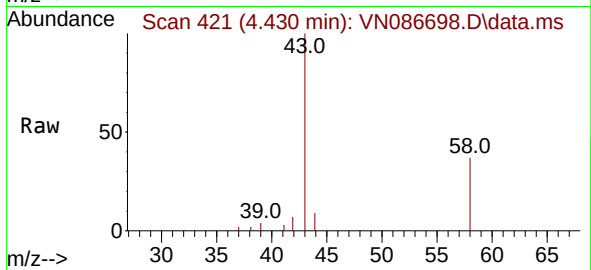




#16
Acetone
Concen: 28.630 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

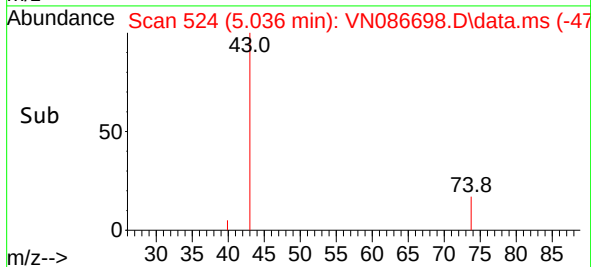
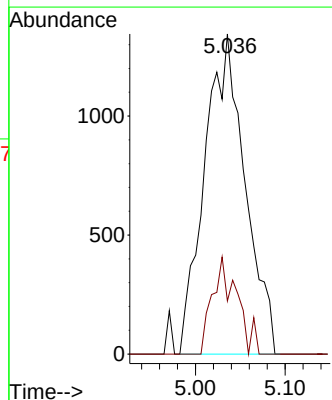
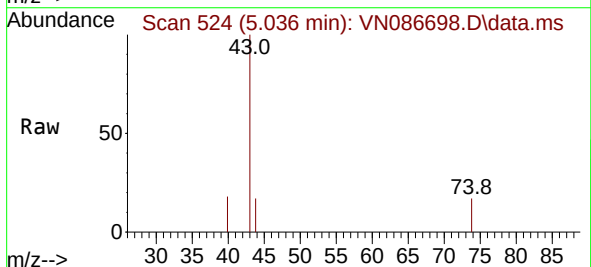
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

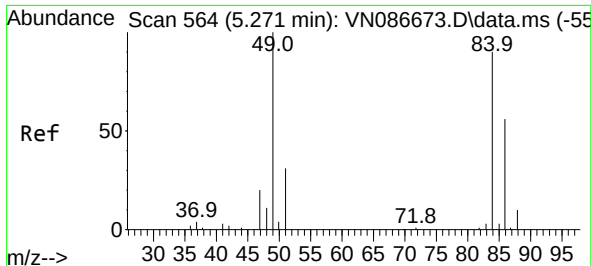
Tgt Ion: 43 Resp: 25630
Ion Ratio Lower Upper
43 100
58 36.6 25.8 38.6



#18
Methyl Acetate
Concen: 1.682 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.017 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

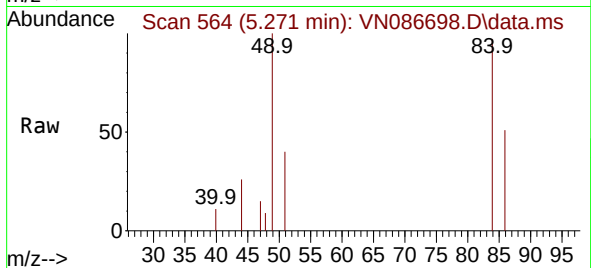
Tgt Ion: 43 Resp: 4214
Ion Ratio Lower Upper
43 100
74 18.5 20.5 30.7#



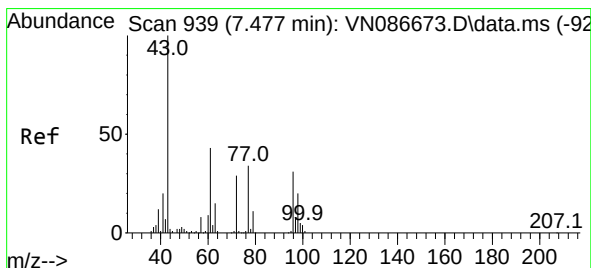
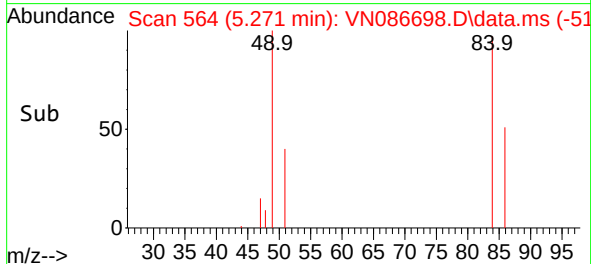
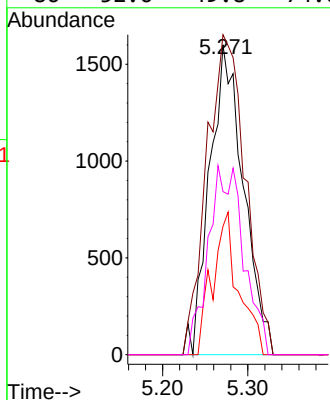


#20
Methylene Chloride
Concen: 1.871 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

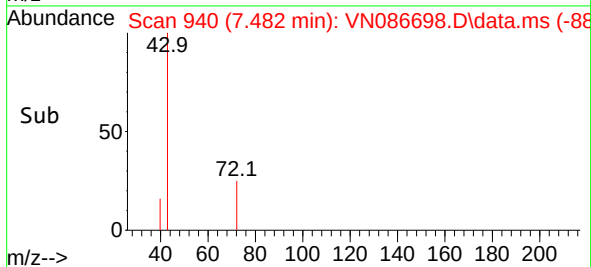
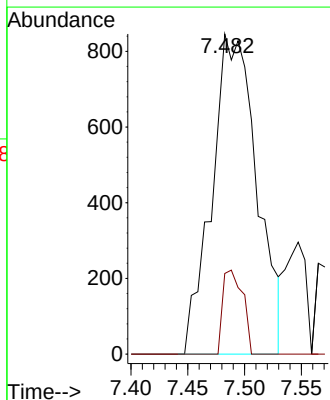
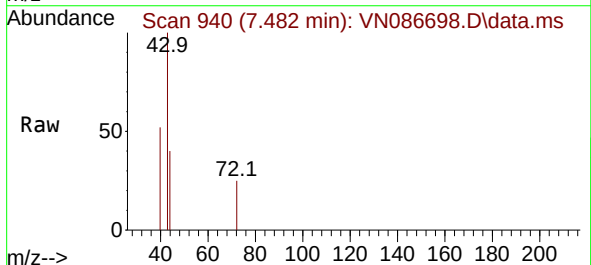


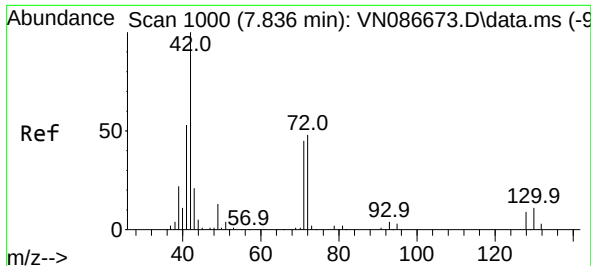
Tgt Ion:	84	Resp:	4420
Ion	Ratio	Lower	Upper
84	100		
49	103.2	88.8	133.2
51	41.4	27.8	41.6
86	52.6	49.8	74.6



#25
2-Butanone
Concen: 1.686 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion:	43	Resp:	2332
Ion	Ratio	Lower	Upper
43	100		
72	25.2	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.233 ug/l

RT: 7.835 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086698.D

Acq: 19 May 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#15

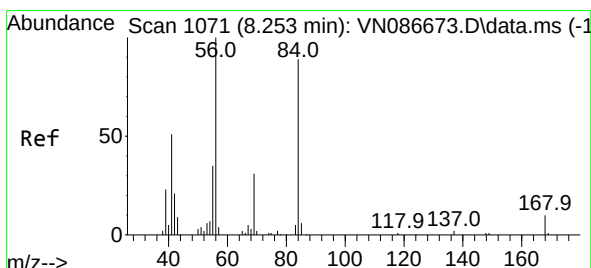
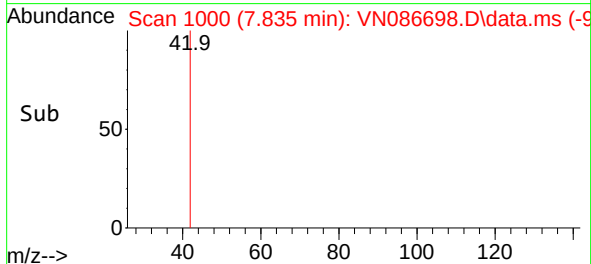
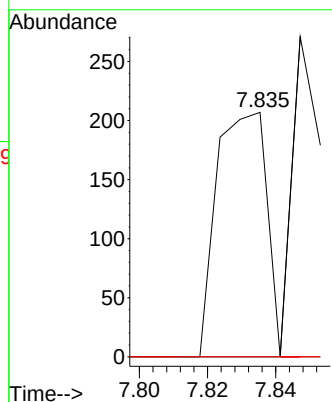
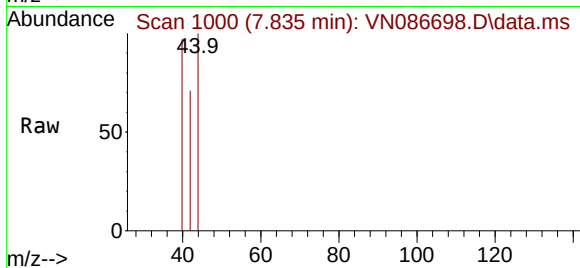
Tgt Ion: 42 Resp: 210

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086698.D

Acq: 19 May 2025 18:41

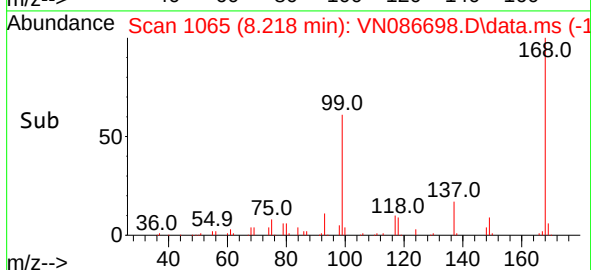
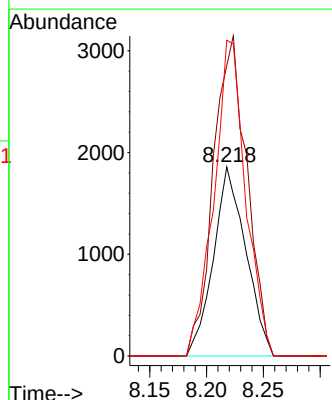
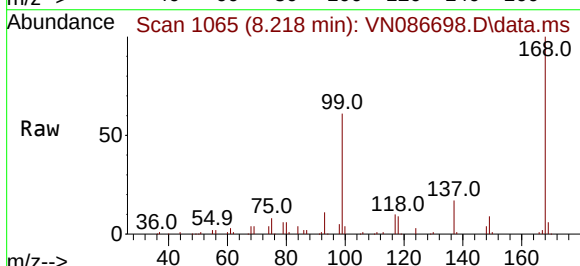
Tgt Ion: 56 Resp: 3685

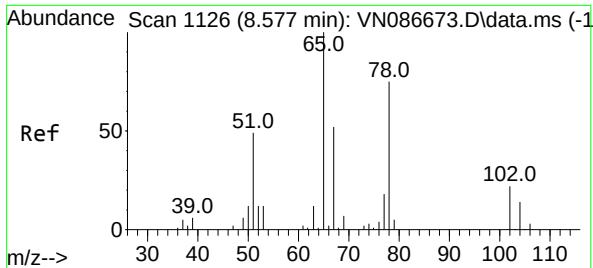
Ion Ratio Lower Upper

56 100

69 153.6 25.0 37.6#

84 167.1 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 52.570 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086698.D

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ClientSampleId :

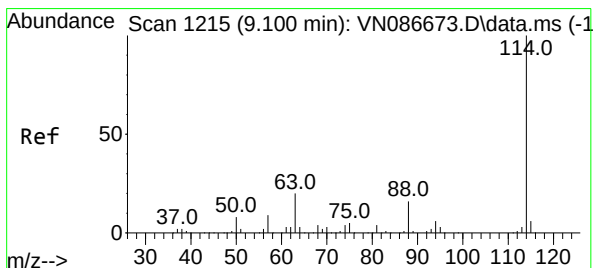
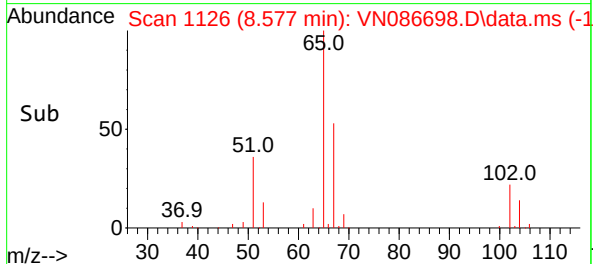
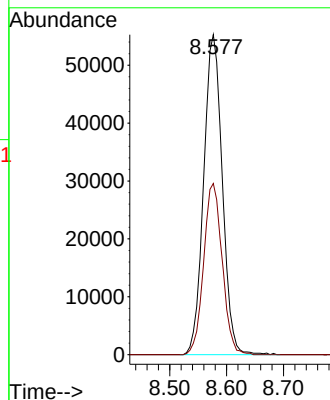
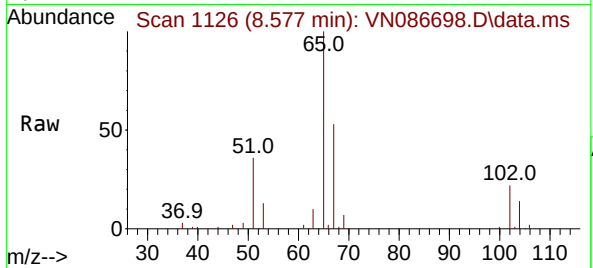
PB168034ZHE#15

Tgt Ion: 65 Resp: 125810

Ion Ratio Lower Upper

65 100

67 53.2 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: VN086698.D

Acq: 19 May 2025 18:41

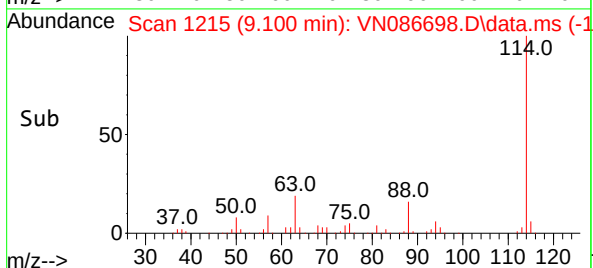
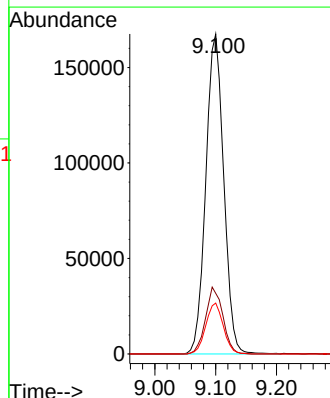
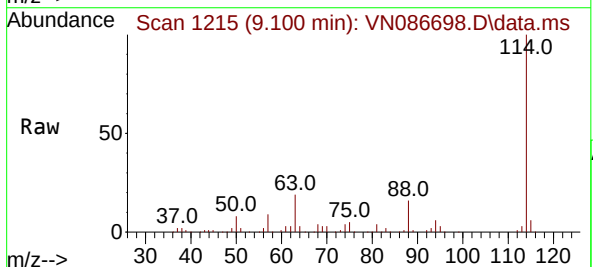
Tgt Ion: 114 Resp: 342667

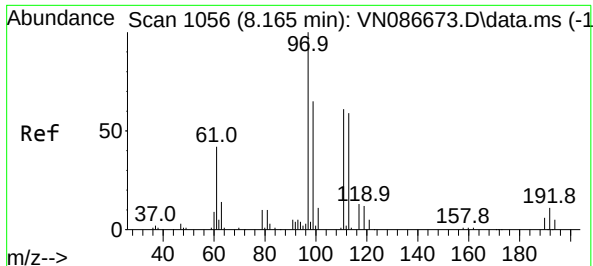
Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.2

88 15.9 0.0 31.2

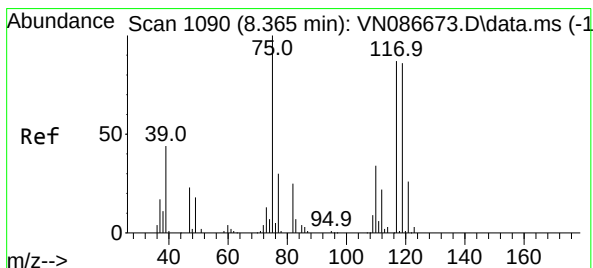
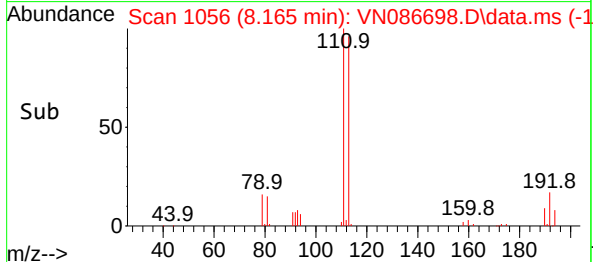
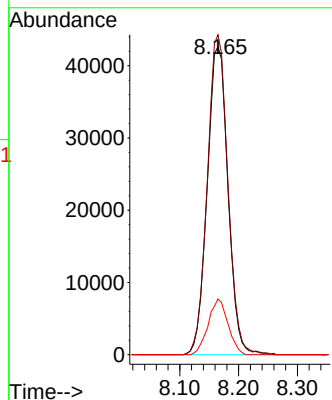
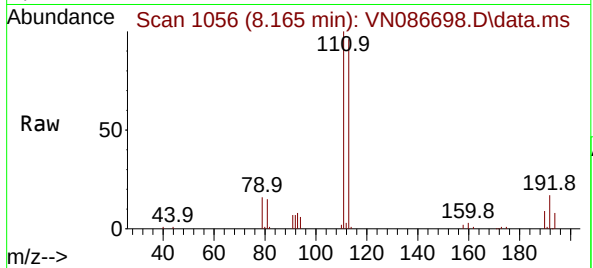




#35
Dibromofluoromethane
Concen: 51.165 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

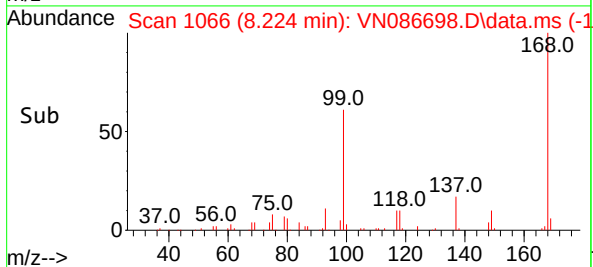
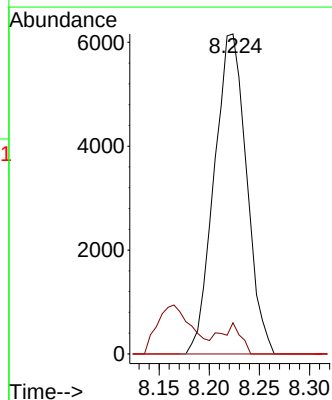
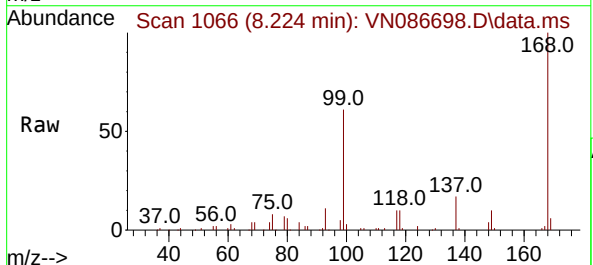
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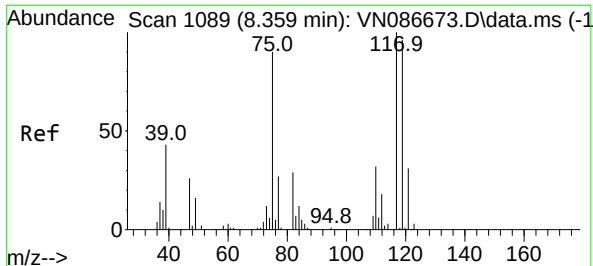
Tgt Ion:113 Resp: 104413
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 17.3 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.580 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

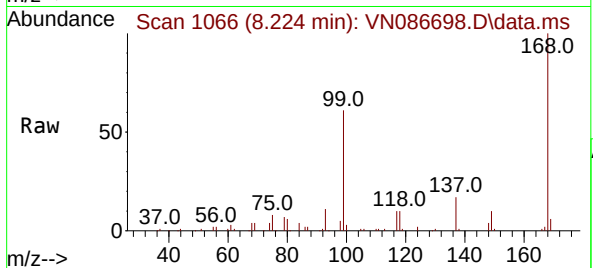
Tgt Ion: 75 Resp: 13786
Ion Ratio Lower Upper
75 100
110 6.1 17.5 52.5#
77 0.0 25.1 37.7#



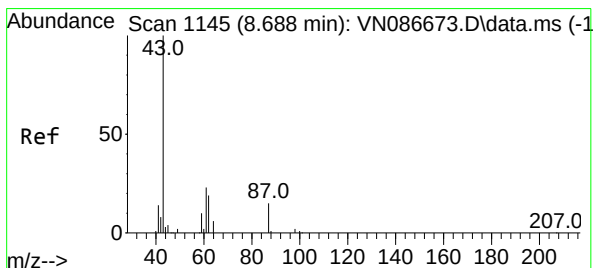
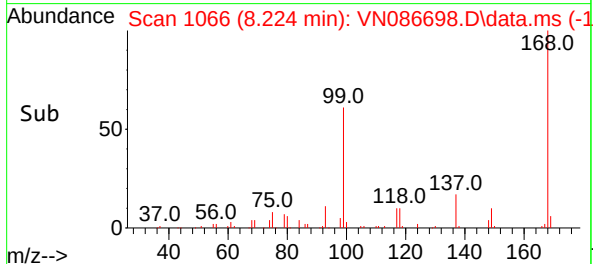
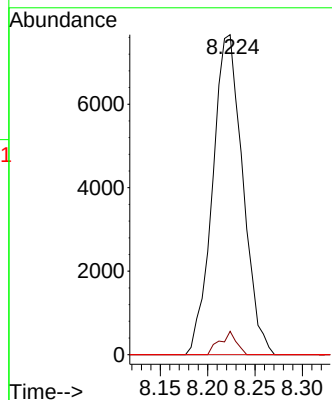


#38
Carbon Tetrachloride
Concen: 5.726 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

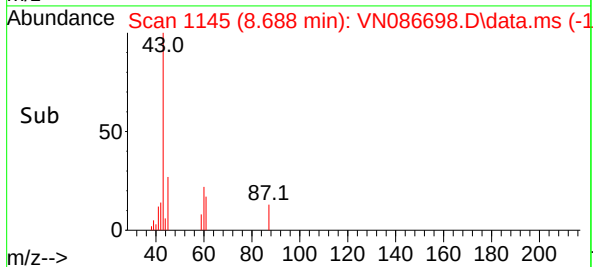
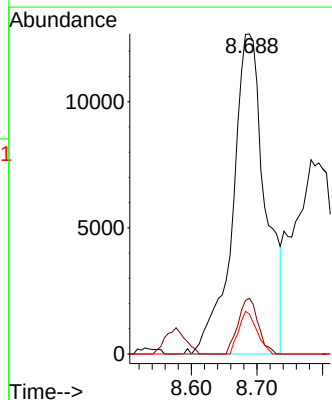
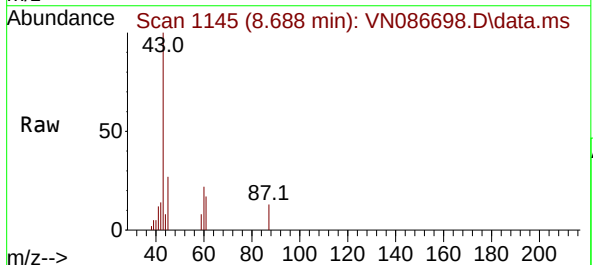


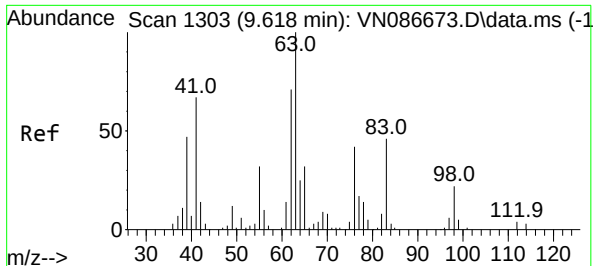
Tgt Ion: 117 Resp: 16983
Ion Ratio Lower Upper
117 100
119 7.3 77.0 115.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 7.222 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 43 Resp: 44022
Ion Ratio Lower Upper
43 100
61 10.7 21.4 32.2#
87 7.3 11.1 16.7#





#45

1,2-Dichloropropane

Concen: 0.510 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN086698.D

Acq: 19 May 2025 18:41

Instrument :

MSVOA_N

ClientSampleId :

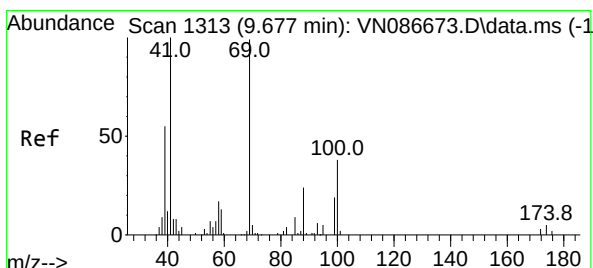
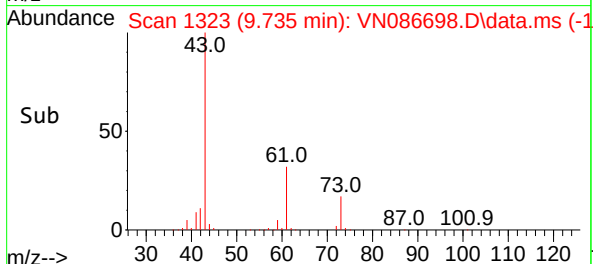
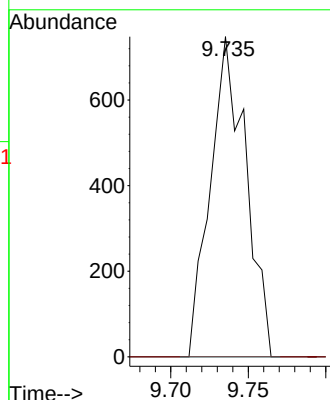
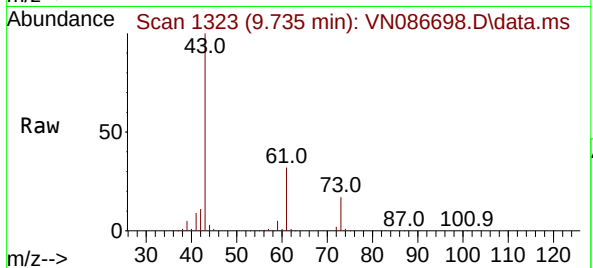
PB168034ZHE#15

Tgt Ion: 63 Resp: 1190

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 29.751 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086698.D

Acq: 19 May 2025 18:41

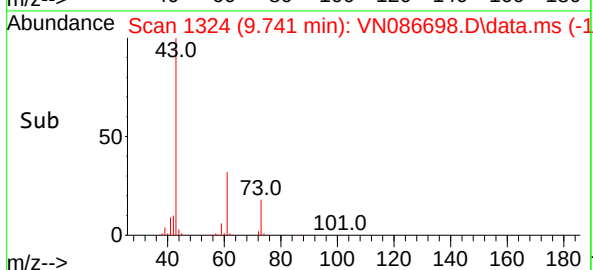
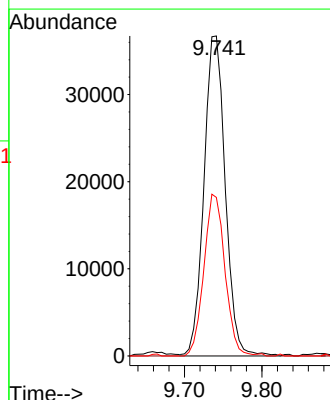
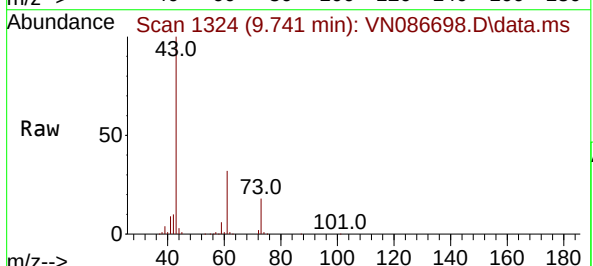
Tgt Ion: 41 Resp: 70274

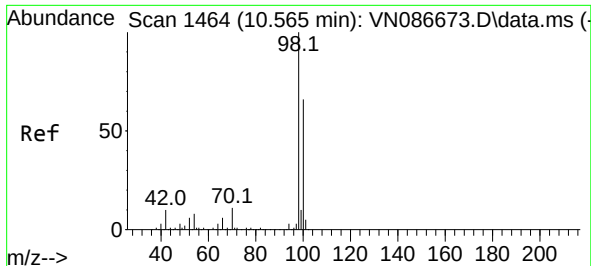
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 50.1 44.1 66.1

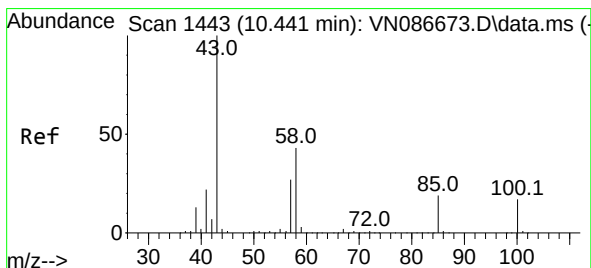
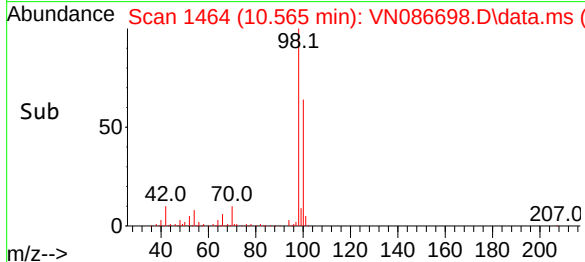
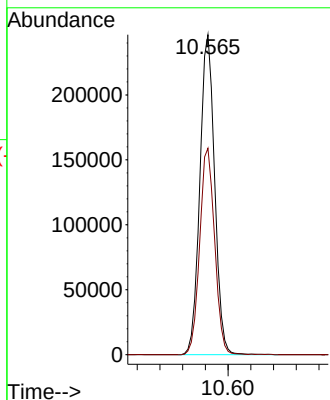
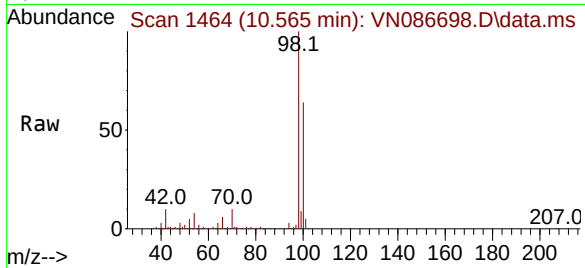




#50
Toluene-d8
Concen: 52.572 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

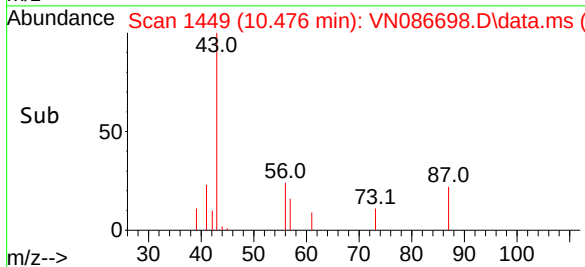
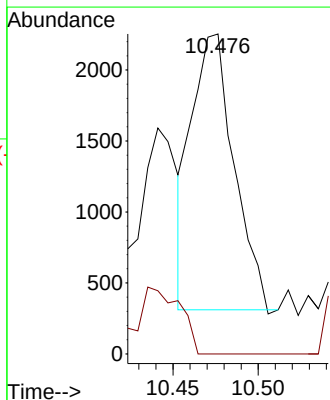
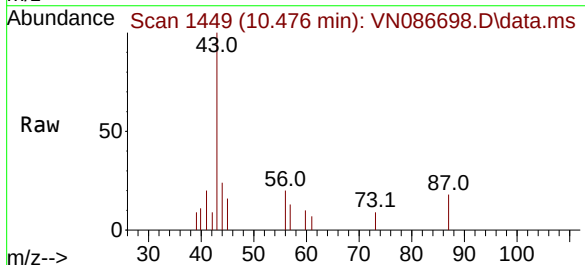
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

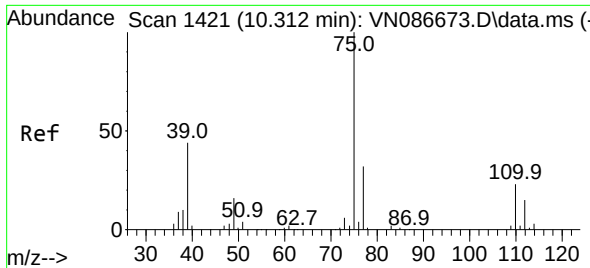
Tgt Ion: 98 Resp: 444595
Ion Ratio Lower Upper
98 100
100 65.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.097 ug/l
RT: 10.476 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 43 Resp: 3372
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

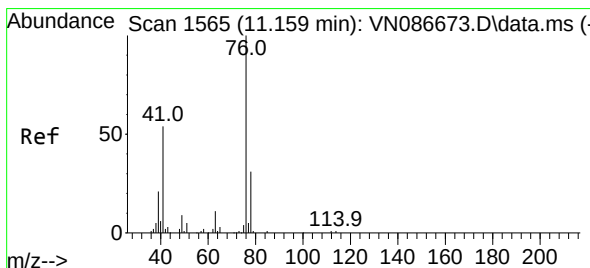
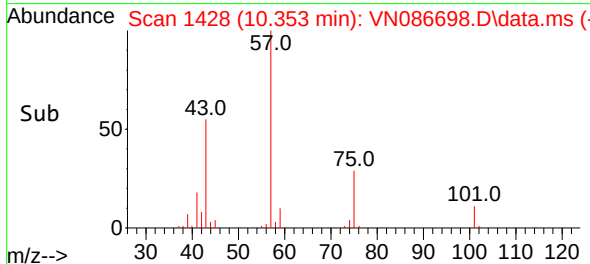
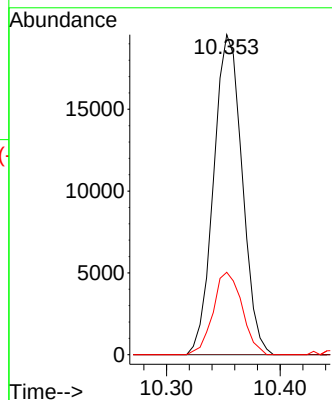
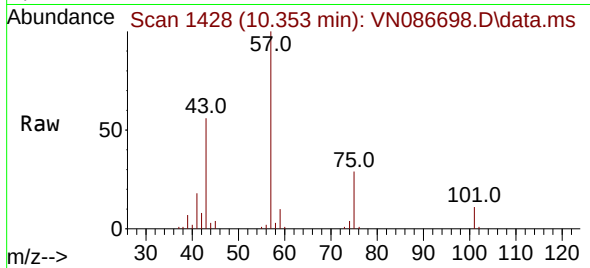




#54
cis-1,3-Dichloropropene
Concen: 9.107 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

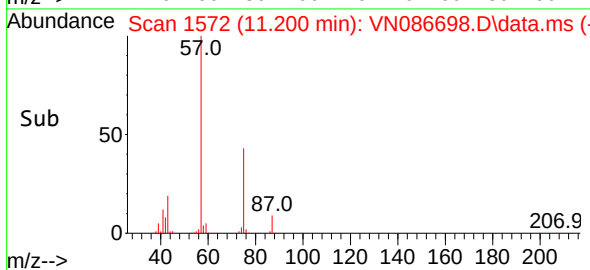
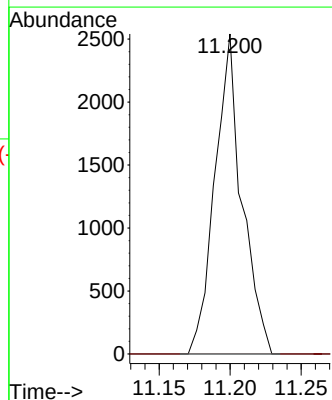
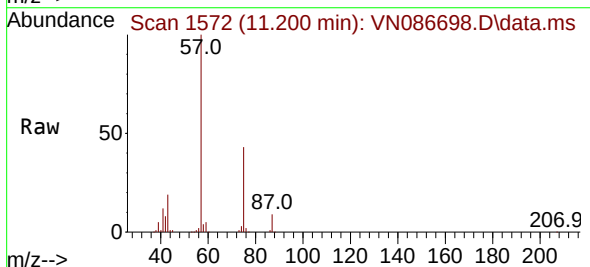
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

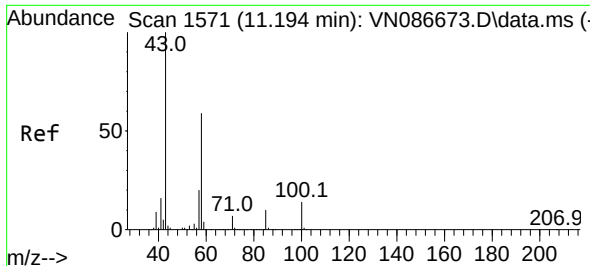
Tgt Ion: 75 Resp: 34136
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 25.8 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 0.857 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 76 Resp: 3363
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

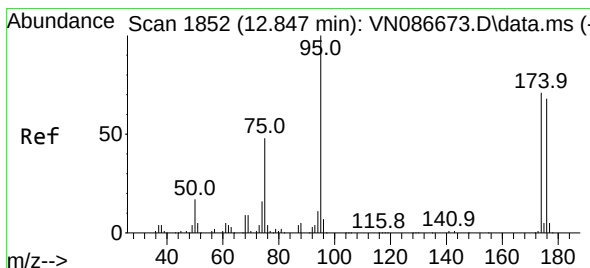
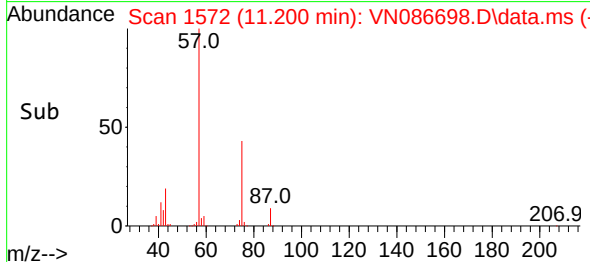
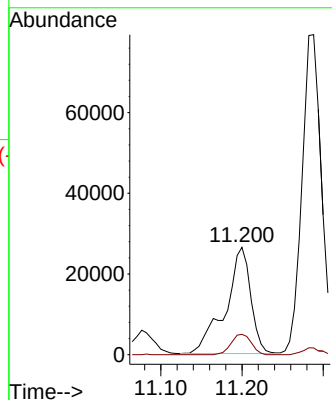
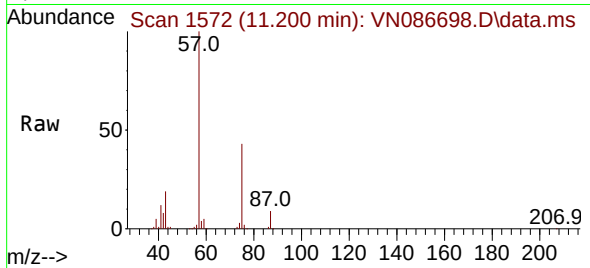




#59
2-Hexanone
Concen: 25.356 ug/l
RT: 11.200 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

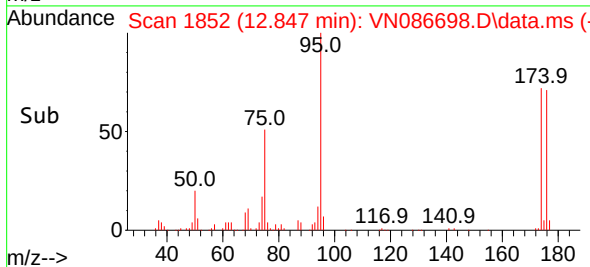
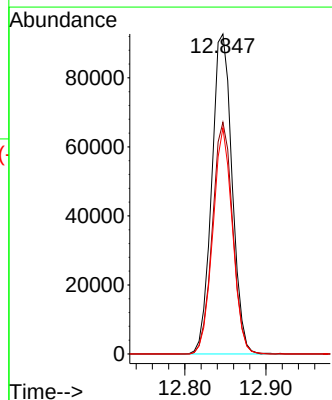
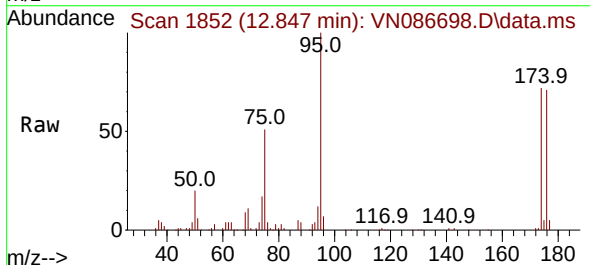
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

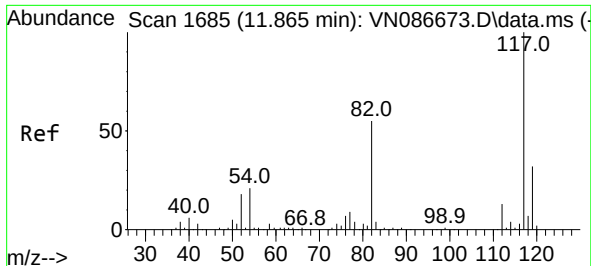
Tgt Ion: 43 Resp: 56919
Ion Ratio Lower Upper
43 100
58 15.3 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 54.088 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 95 Resp: 161512
Ion Ratio Lower Upper
95 100
174 72.1 0.0 145.4
176 68.0 0.0 137.8

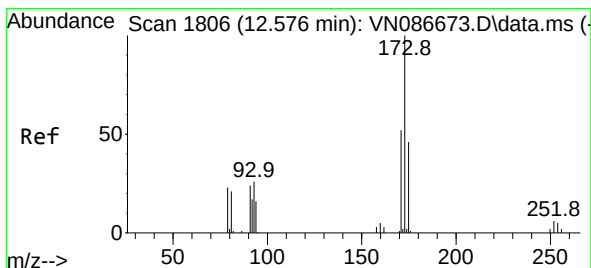
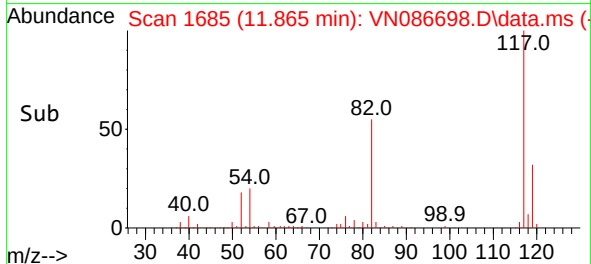
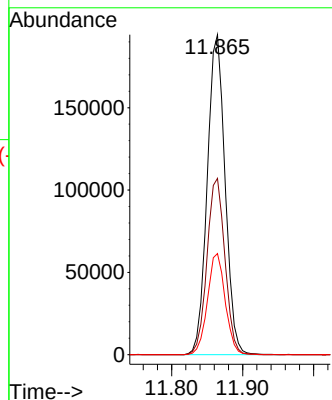
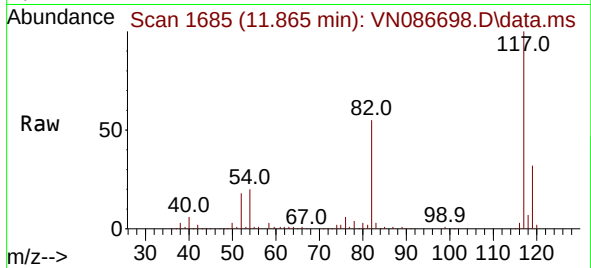




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

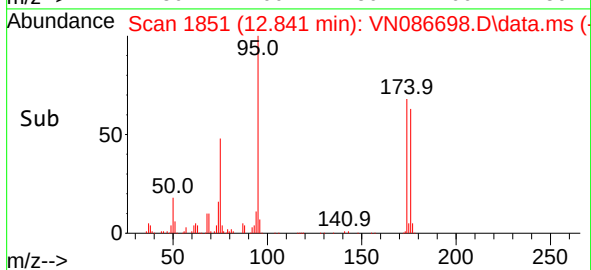
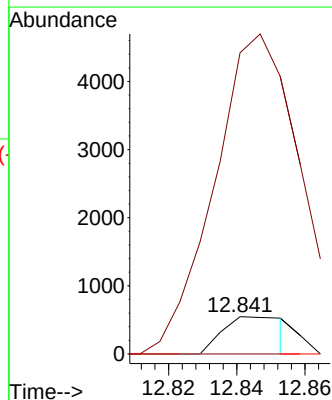
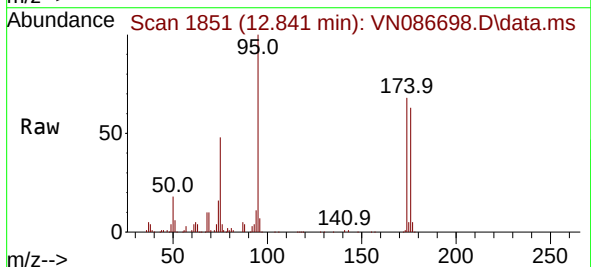
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

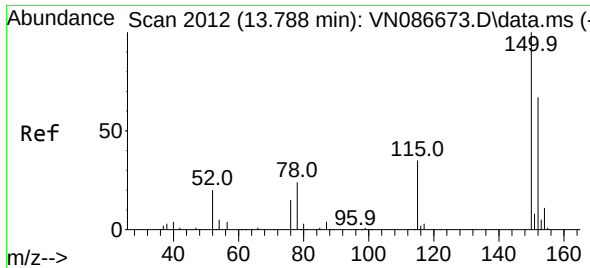
Tgt Ion:117 Resp: 339152
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 31.6 25.4 38.2



#71
Bromoform
Concen: 0.398 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion:173 Resp: 679
Ion Ratio Lower Upper
173 100
175 966.9 23.4 70.2#
254 0.0 0.0 0.0

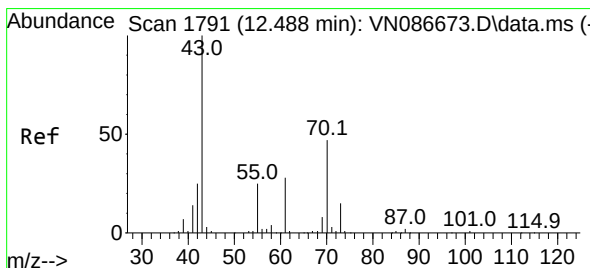
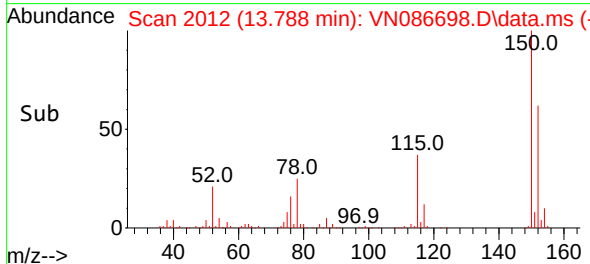
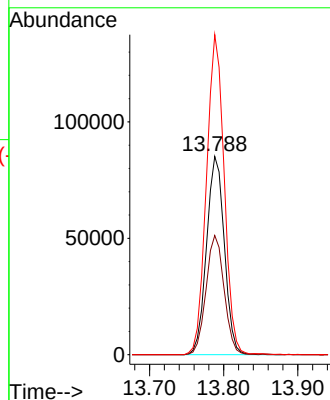
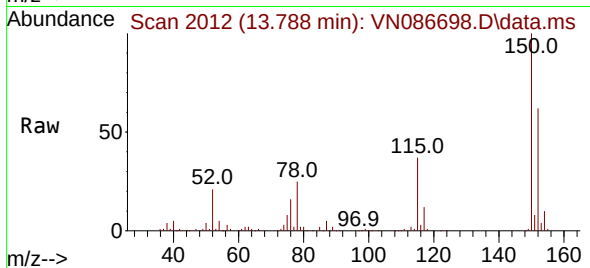




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

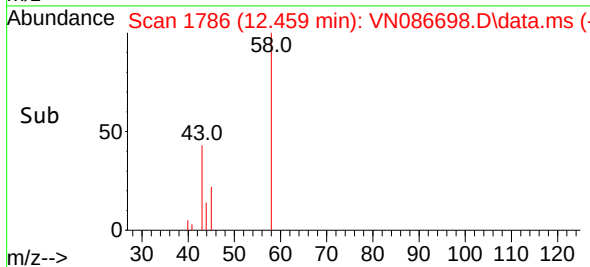
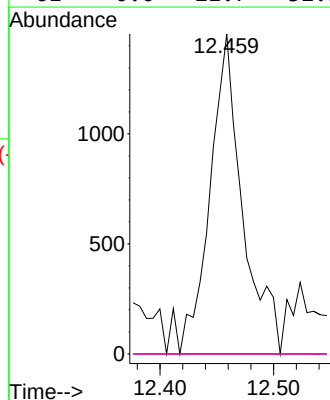
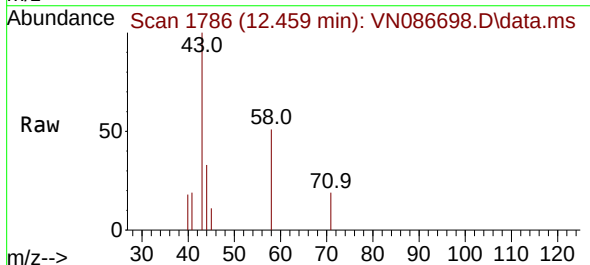
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

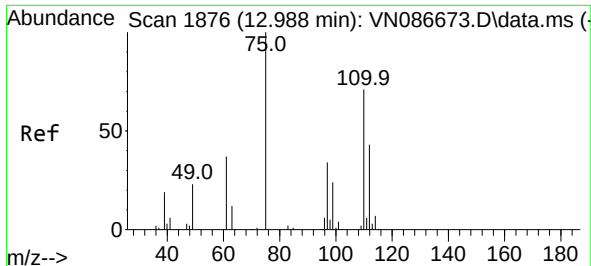
Tgt Ion:152 Resp: 142316
Ion Ratio Lower Upper
152 100
115 61.0 30.0 90.1
150 160.4 0.0 347.8



#74
N-ethyl acetate
Concen: 0.629 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 43 Resp: 2888
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#

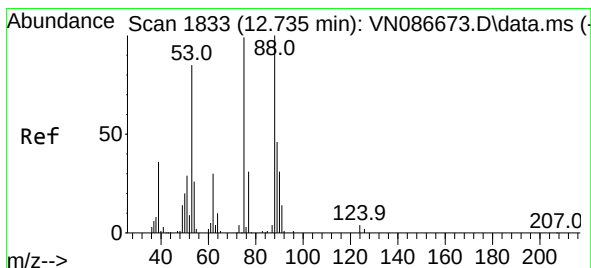
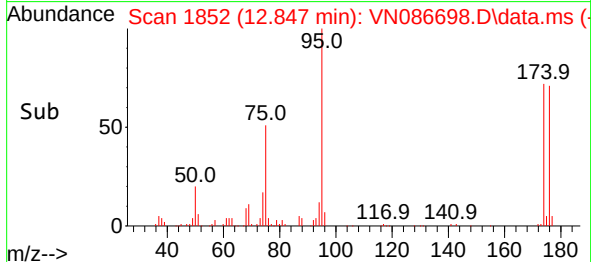
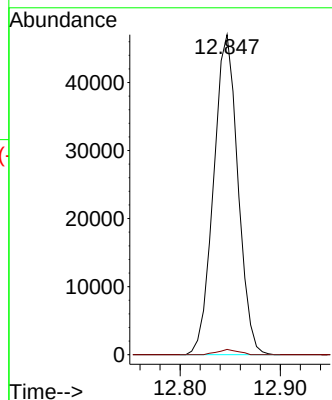
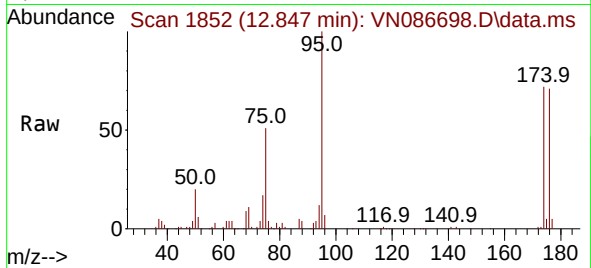




#76
1,2,3-Trichloropropane
Concen: 24.613 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#15

Tgt Ion: 75 Resp: 79219
Ion Ratio Lower Upper
75 100
77 1.4 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.114 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086698.D
Acq: 19 May 2025 18:41

Tgt Ion: 75 Resp: 79219
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

