

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086695.D
 Acq On : 19 May 2025 17:28
 Operator : JC\MD
 Sample : PB168034ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#12

Quant Time: May 20 03:22:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

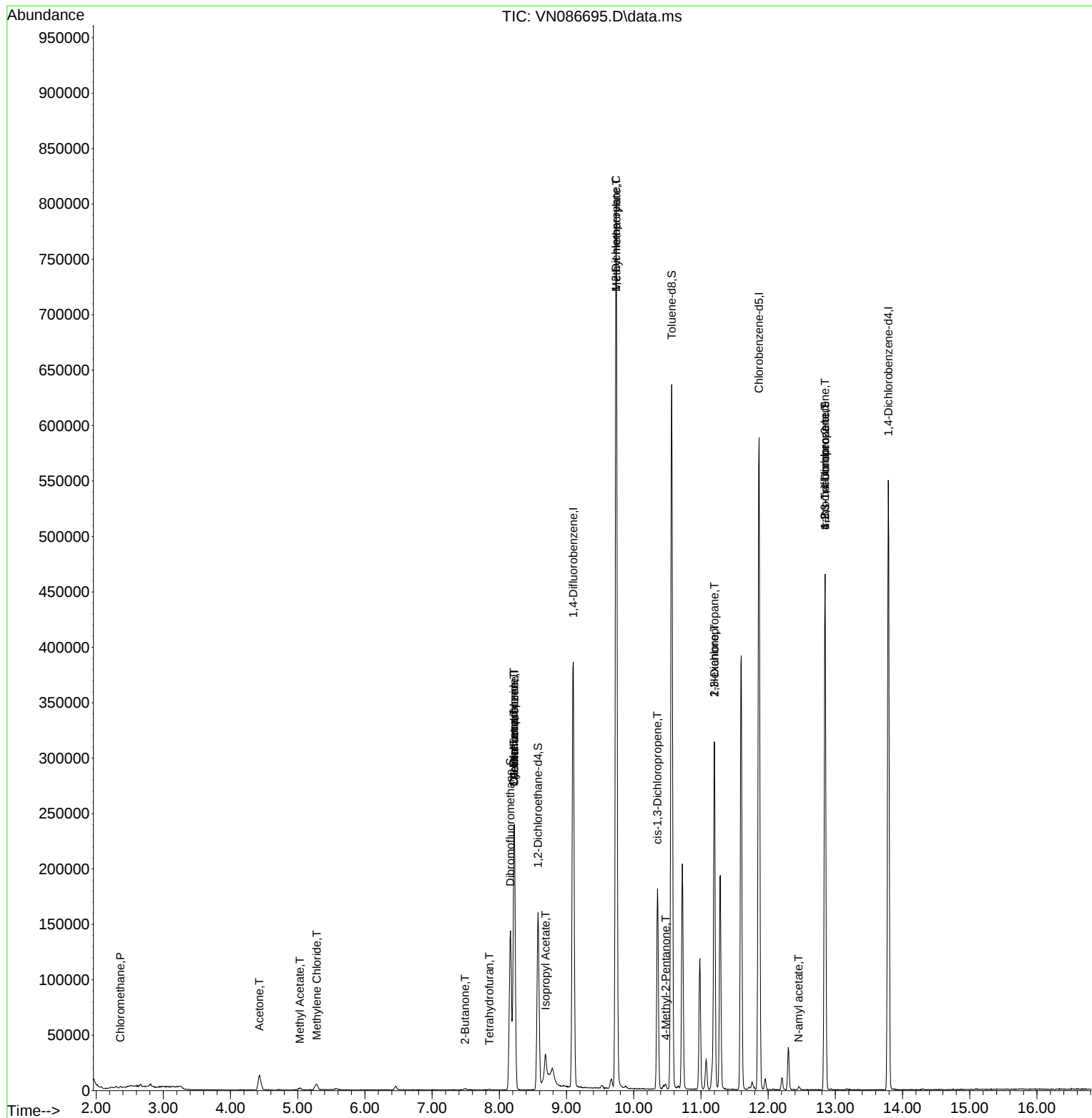
Internal Standards						
1) Pentafluorobenzene	8.224	168	177284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	348738	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	153103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129889	53.022	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.040%		
35) Dibromofluoromethane	8.165	113	108036	52.018	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.040%		
50) Toluene-d8	10.565	98	456250	53.011	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 106.020%		
62) 4-Bromofluorobenzene	12.847	95	170036	55.952	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 111.900%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	784	0.271	ug/l	91
16) Acetone	4.430	43	25867	28.228	ug/l	99
18) Methyl Acetate	5.030	43	4262	1.662	ug/l #	76
20) Methylene Chloride	5.283	84	4556	1.884	ug/l #	82
25) 2-Butanone	7.489	43	2520	1.780	ug/l	92
29) Tetrahydrofuran	7.853	42	487	0.527	ug/l #	49
31) Cyclohexane	8.218	56	3533	0.961	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14723	4.806	ug/l #	48
38) Carbon Tetrachloride	8.218	117	17512	5.802	ug/l #	17
43) Isopropyl Acetate	8.688	43	51656	8.327	ug/l #	71
45) 1,2-Dichloropropane	9.735	63	1168	0.492	ug/l #	42
48) Methyl methacrylate	9.741	41	72246	30.053	ug/l #	37
51) 4-Methyl-2-Pentanone	10.477	43	4570	1.461	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	35259	9.243	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3510	0.879	ug/l #	42
59) 2-Hexanone	11.200	43	57939	25.361	ug/l #	42
74) N-amyl acetate	12.453	43	2304	0.466	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	84579	24.427	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84579	61.645	ug/l #	15

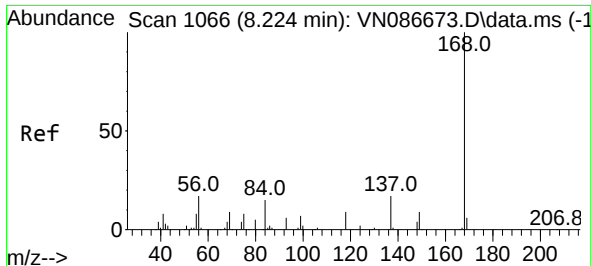
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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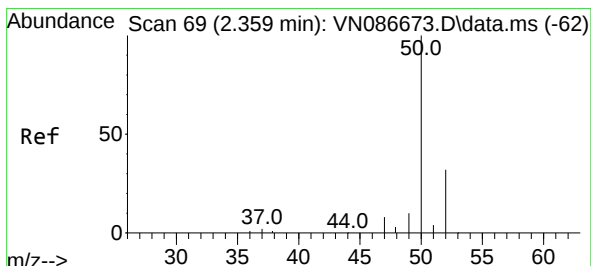
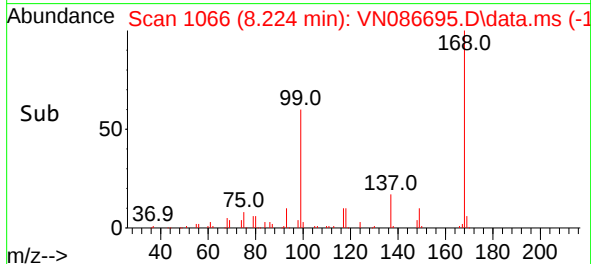
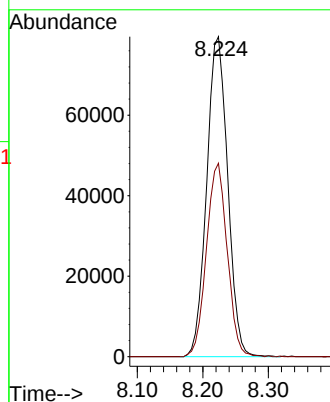
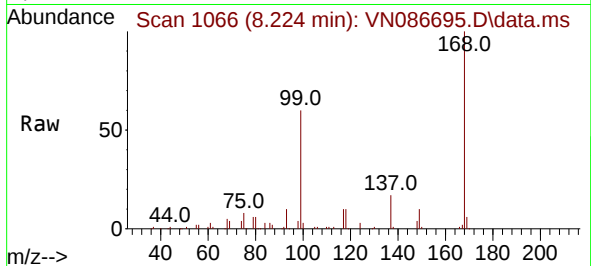




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

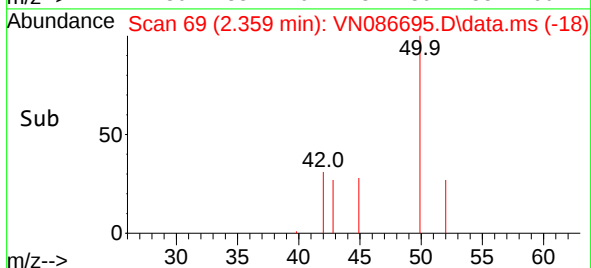
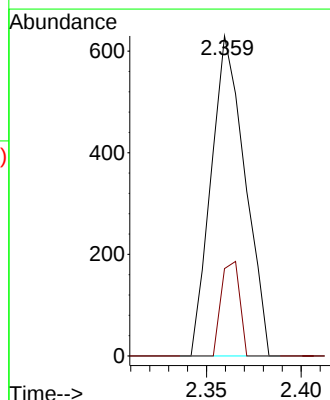
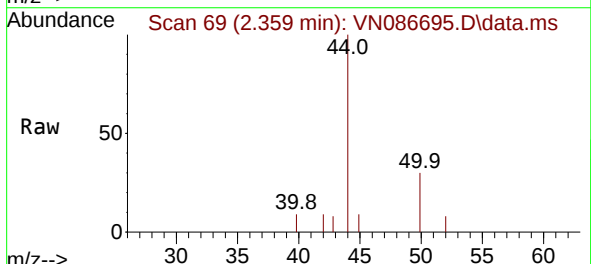
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

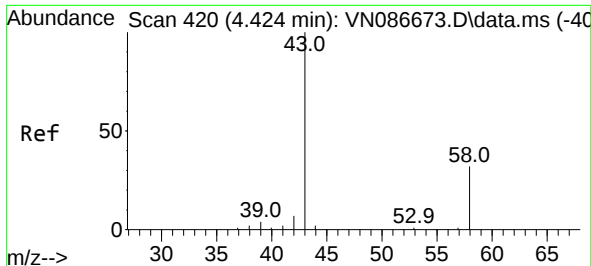
Tgt Ion:168 Resp: 177284
Ion Ratio Lower Upper
168 100
99 60.5 47.0 70.4



#3
Chloromethane
Concen: 0.271 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion: 50 Resp: 784
Ion Ratio Lower Upper
50 100
52 27.3 25.9 38.9

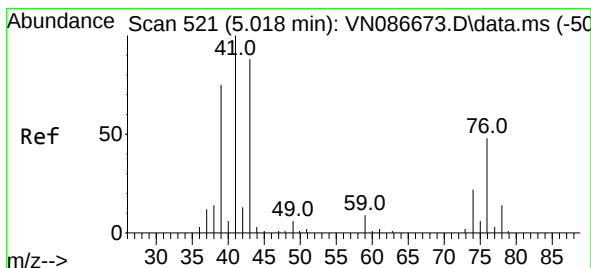
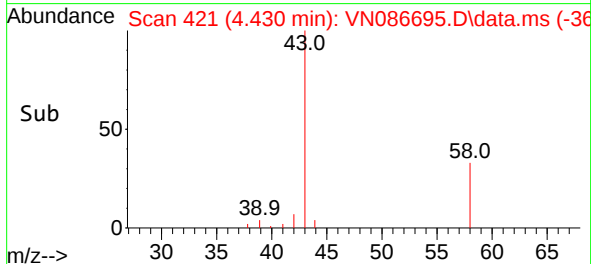
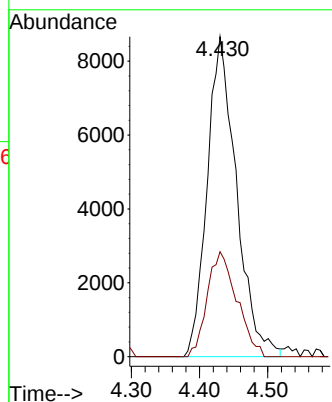
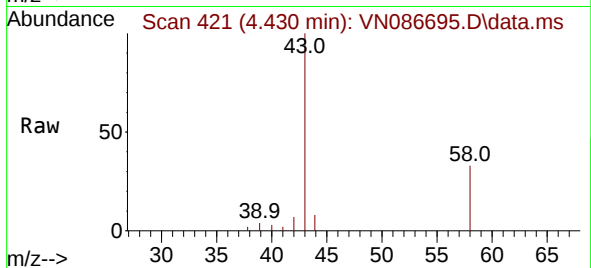




#16
Acetone
Concen: 28.228 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

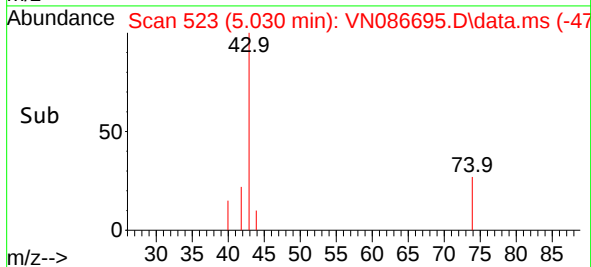
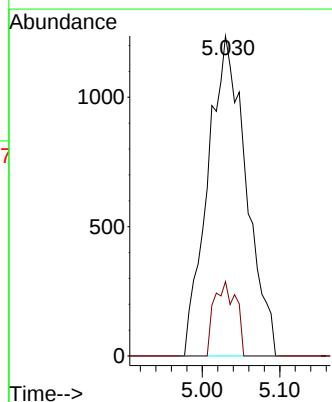
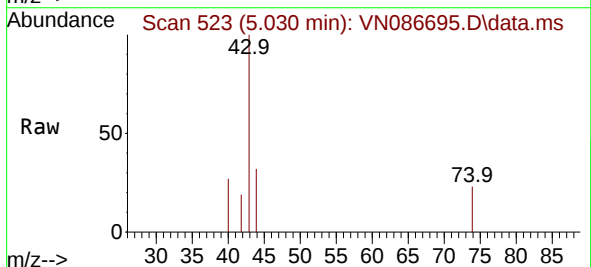
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

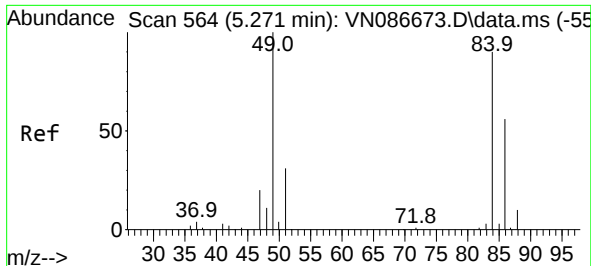
Tgt Ion: 43 Resp: 25867
Ion Ratio Lower Upper
43 100
58 32.8 25.8 38.6



#18
Methyl Acetate
Concen: 1.662 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

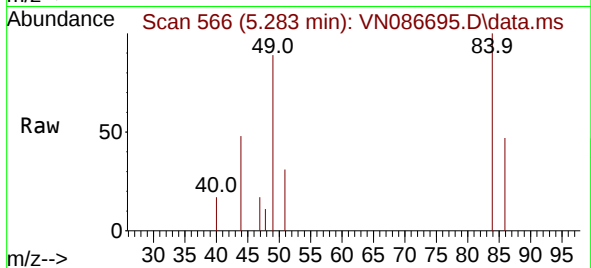
Tgt Ion: 43 Resp: 4262
Ion Ratio Lower Upper
43 100
74 13.2 20.5 30.7#



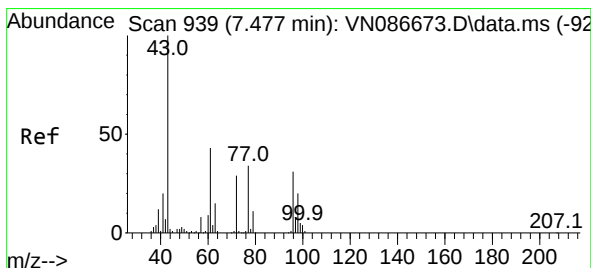
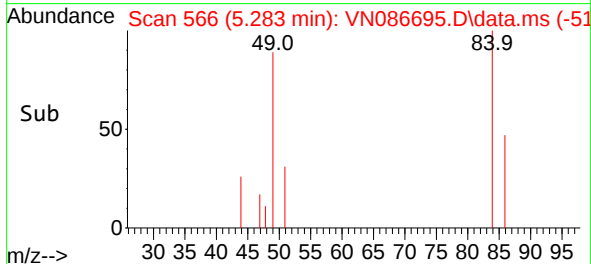
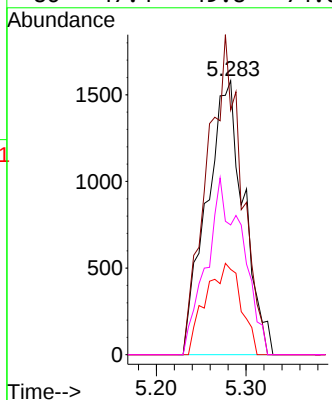


#20
Methylene Chloride
Concen: 1.884 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

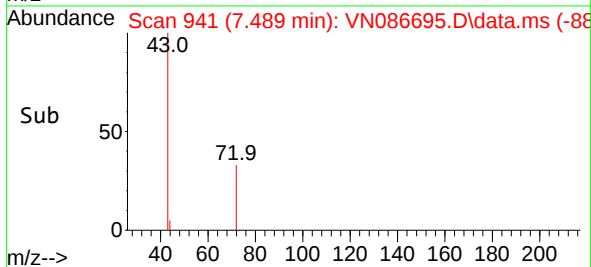
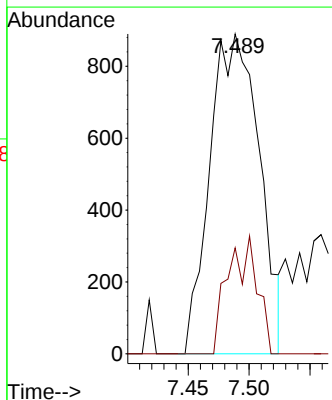
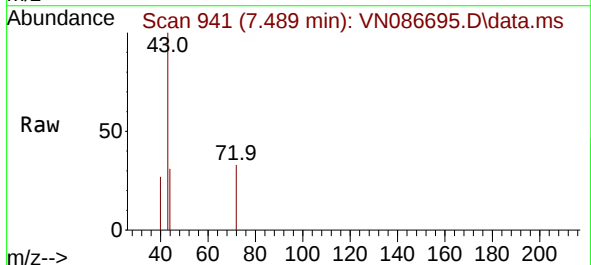


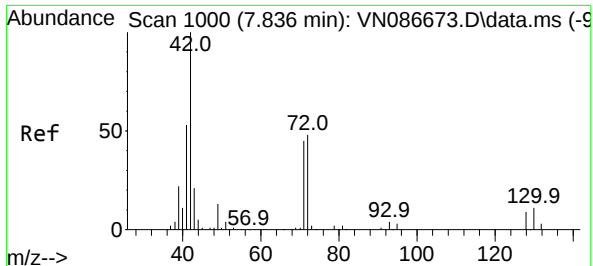
Tgt Ion:	84	Resp:	4556
Ion	Ratio	Lower	Upper
84	100		
49	89.3	88.8	133.2
51	31.2	27.8	41.6
86	47.4	49.8	74.6



#25
2-Butanone
Concen: 1.780 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion:	43	Resp:	2520
Ion	Ratio	Lower	Upper
43	100		
72	33.1	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.527 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

Lab File: VN086695.D

Acq: 19 May 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#12

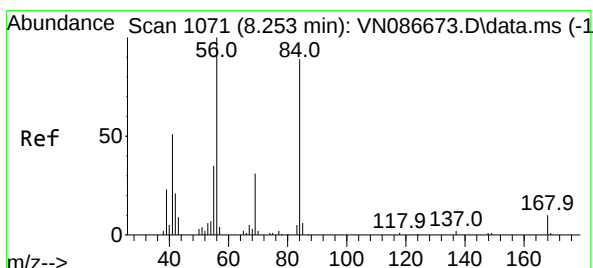
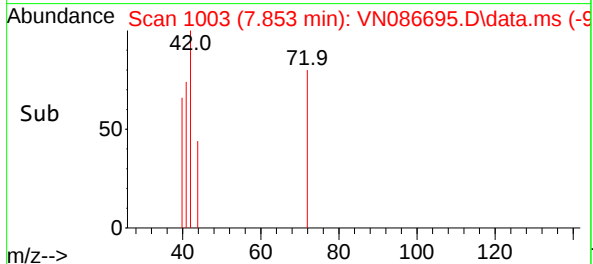
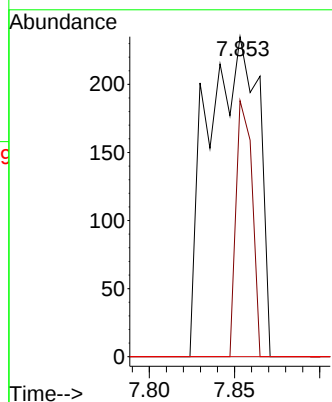
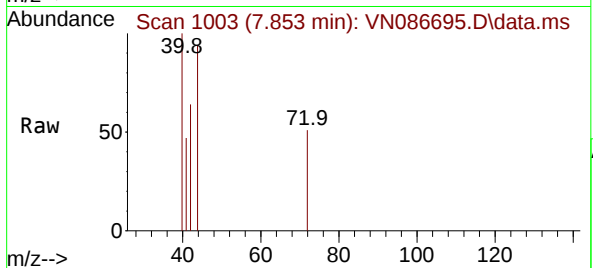
Tgt Ion: 42 Resp: 487

Ion Ratio Lower Upper

42 100

72 25.1 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 0.961 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086695.D

Acq: 19 May 2025 17:28

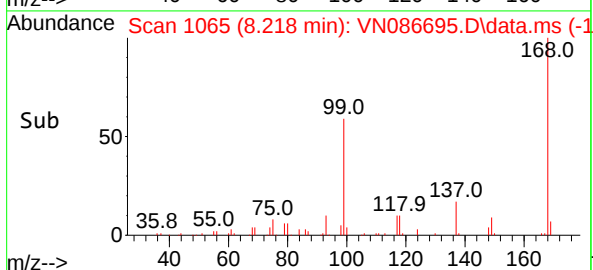
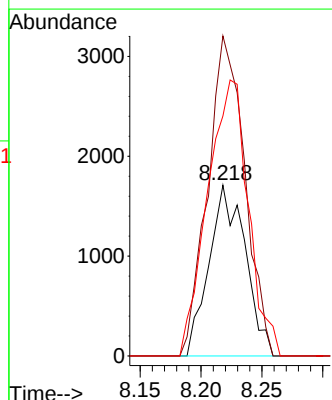
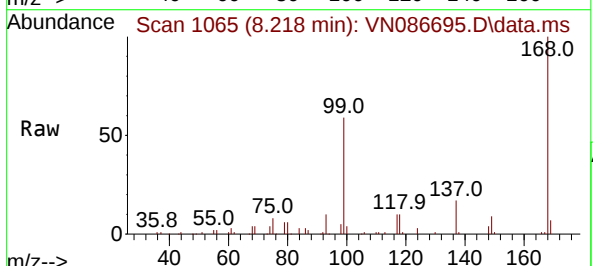
Tgt Ion: 56 Resp: 3533

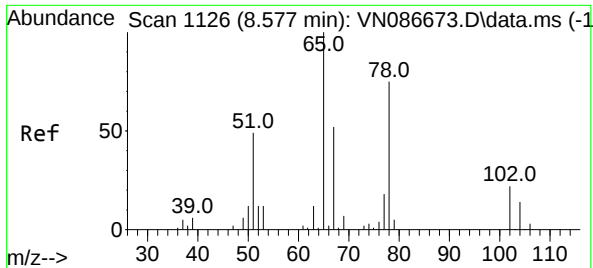
Ion Ratio Lower Upper

56 100

69 187.4 25.0 37.6#

84 140.6 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 53.022 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086695.D

Acq: 19 May 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

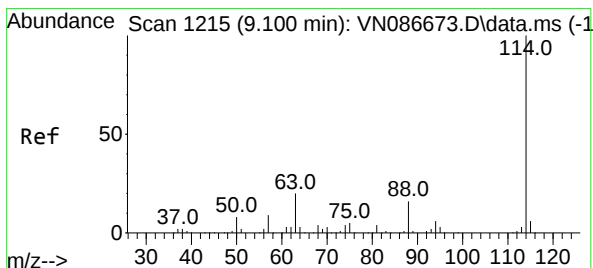
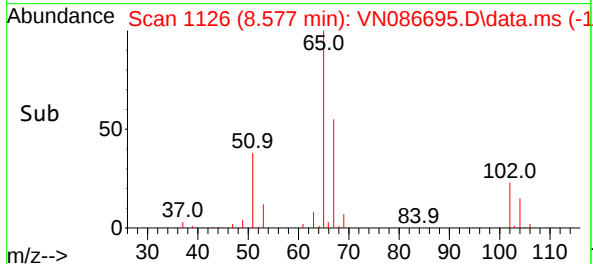
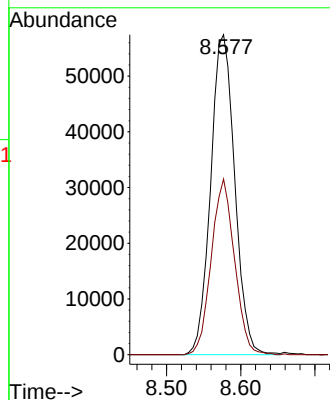
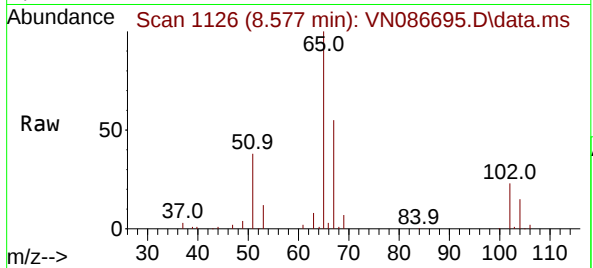
PB168034ZHE#12

Tgt Ion: 65 Resp: 129889

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: VN086695.D

Acq: 19 May 2025 17:28

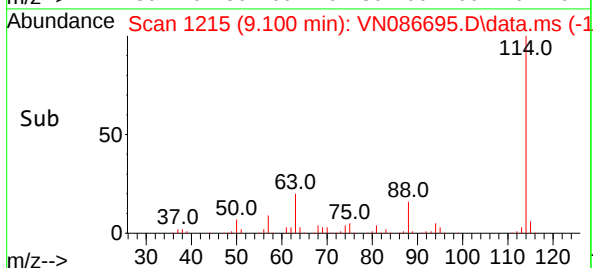
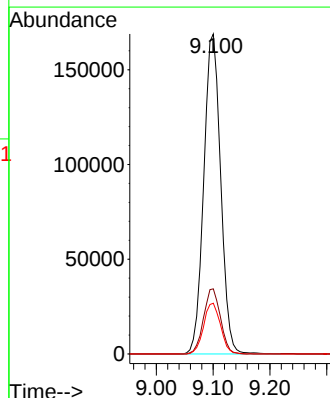
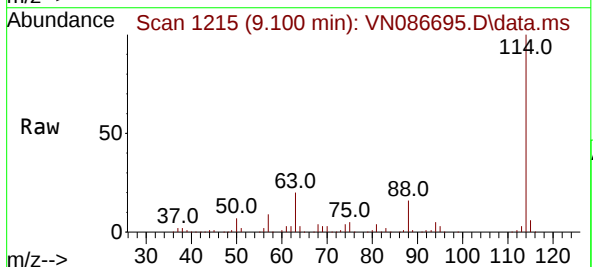
Tgt Ion: 114 Resp: 348738

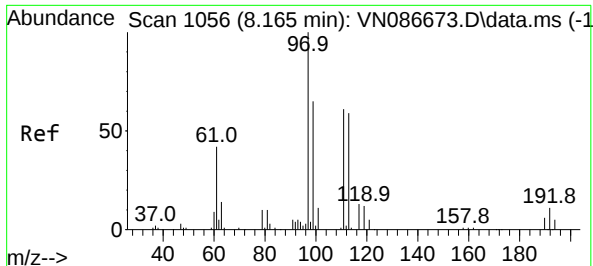
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

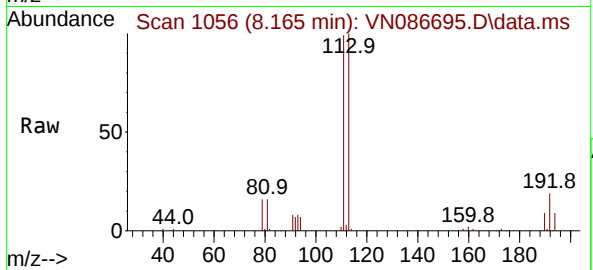
88 15.9 0.0 31.2



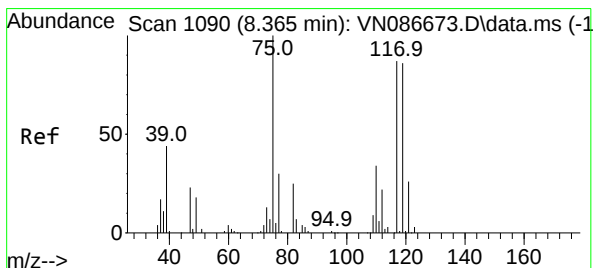
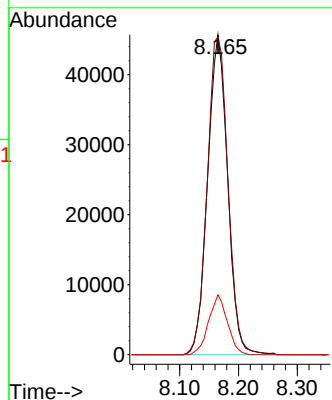
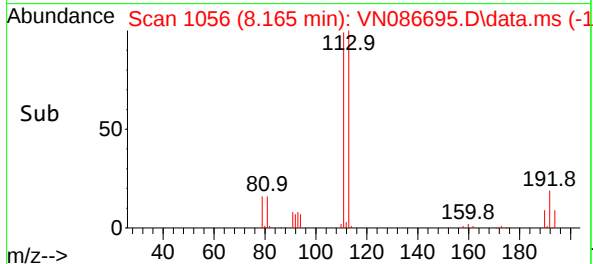


#35
Dibromofluoromethane
Concen: 52.018 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

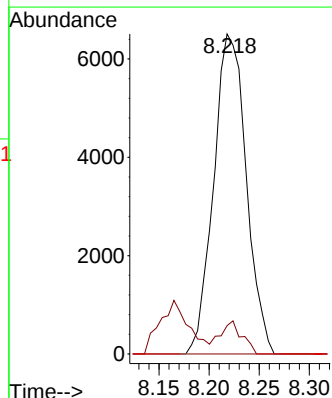
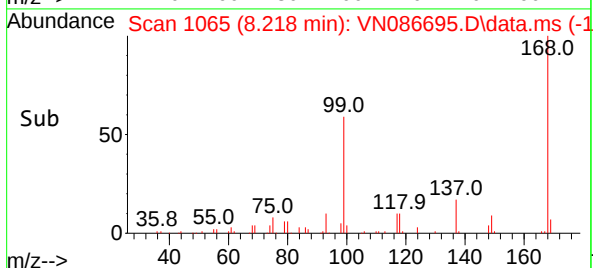
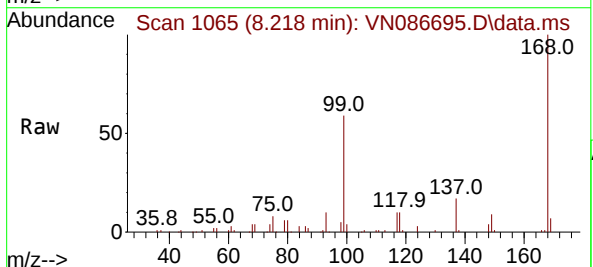


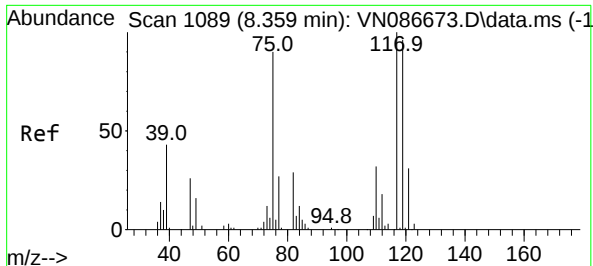
Tgt Ion:113 Resp: 108036
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.2
192 17.5 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.806 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

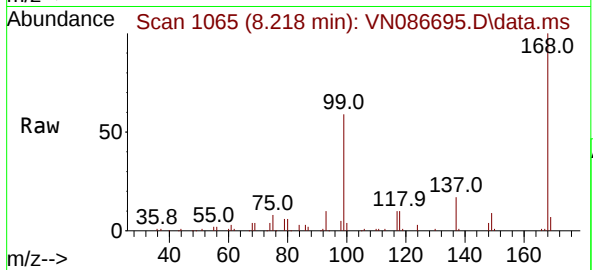
Tgt Ion: 75 Resp: 14723
Ion Ratio Lower Upper
75 100
110 6.9 17.5 52.5#
77 0.0 25.1 37.7#



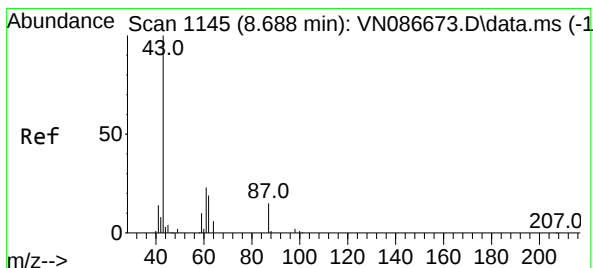
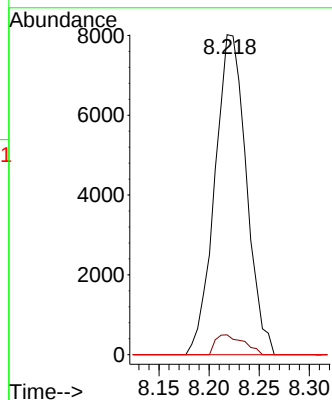
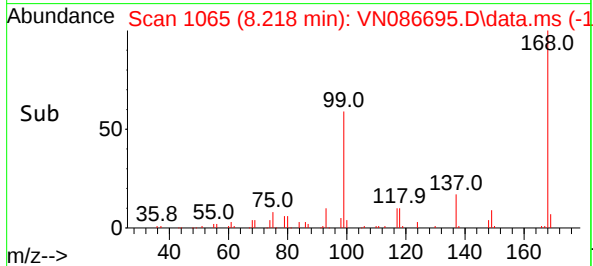


#38
Carbon Tetrachloride
Concen: 5.802 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

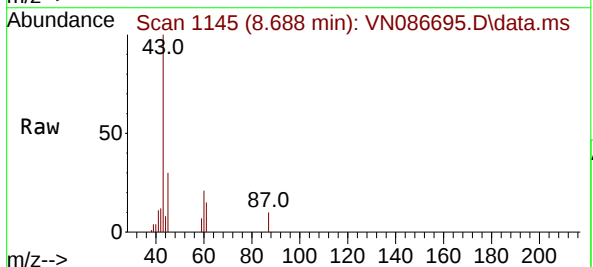
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12



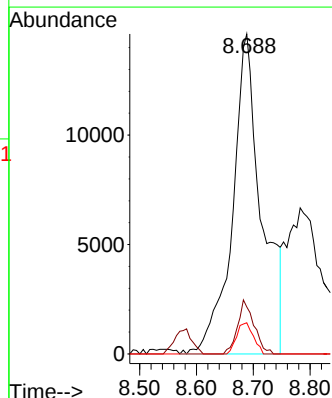
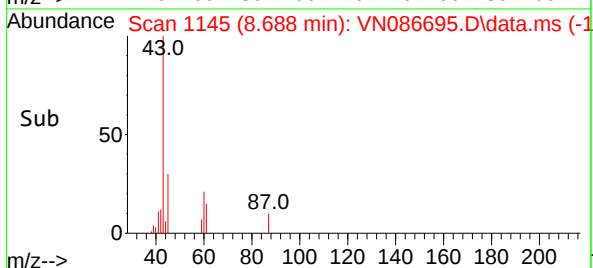
Tgt Ion:117 Resp: 17512
Ion Ratio Lower Upper
117 100
119 6.2 77.0 115.6#
121 0.0 25.0 37.6#

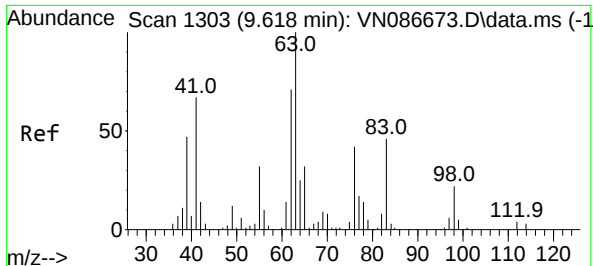


#43
Isopropyl Acetate
Concen: 8.327 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28



Tgt Ion: 43 Resp: 51656
Ion Ratio Lower Upper
43 100
61 9.6 21.4 32.2#
87 5.6 11.1 16.7#





#45

1,2-Dichloropropane

Concen: 0.492 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086695.D

Acq: 19 May 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

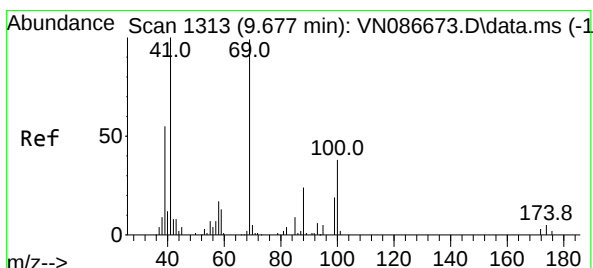
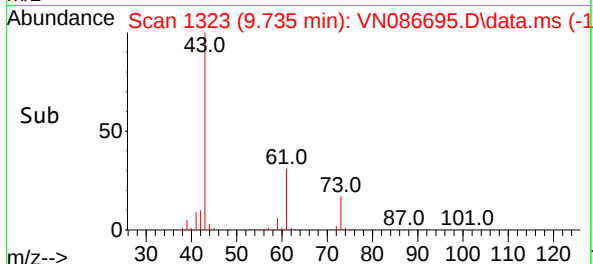
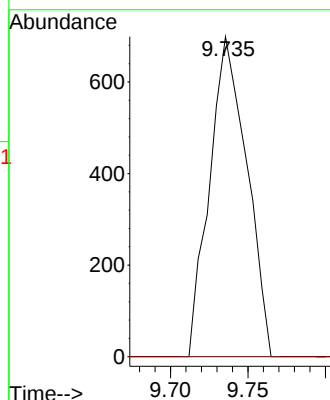
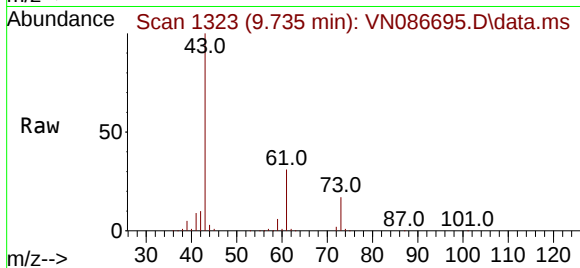
PB168034ZHE#12

Tgt Ion: 63 Resp: 1168

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 30.053 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086695.D

Acq: 19 May 2025 17:28

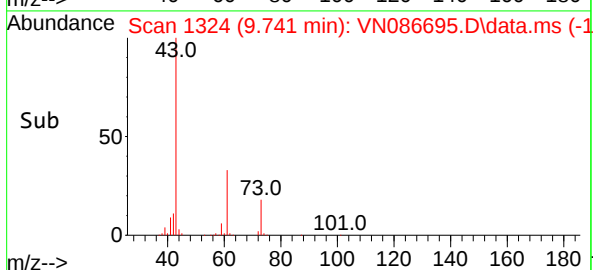
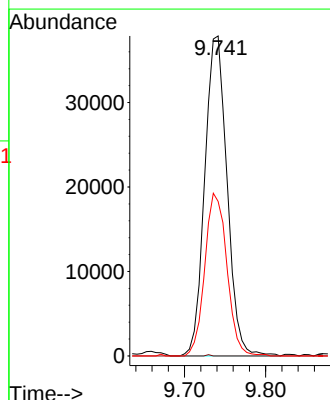
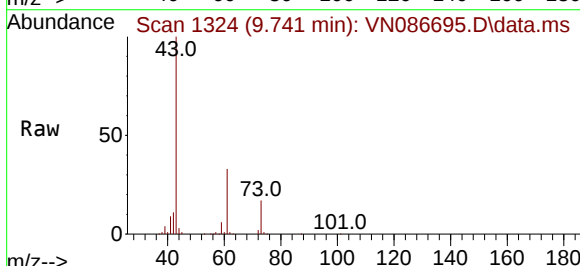
Tgt Ion: 41 Resp: 72246

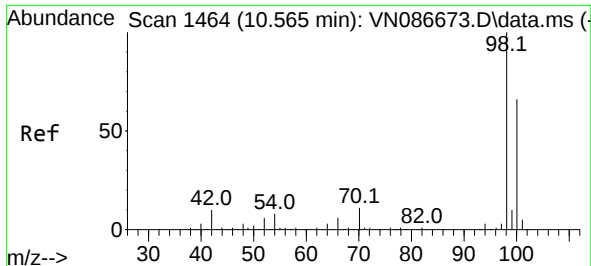
Ion Ratio Lower Upper

41 100

69 0.1 74.1 111.1#

39 50.5 44.1 66.1

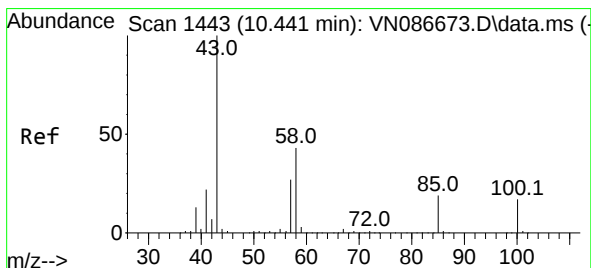
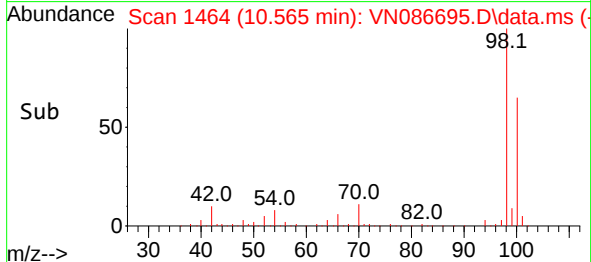
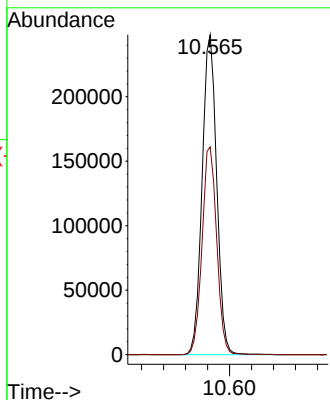
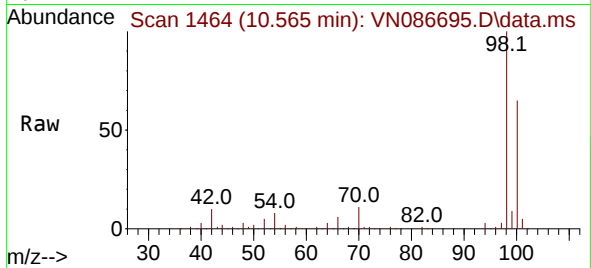




#50
Toluene-d8
Concen: 53.011 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

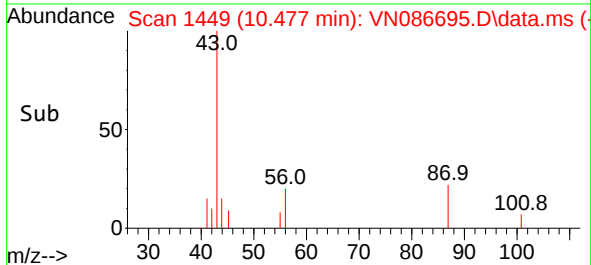
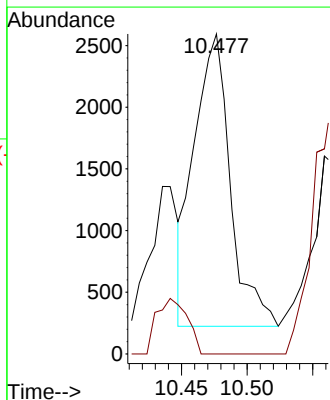
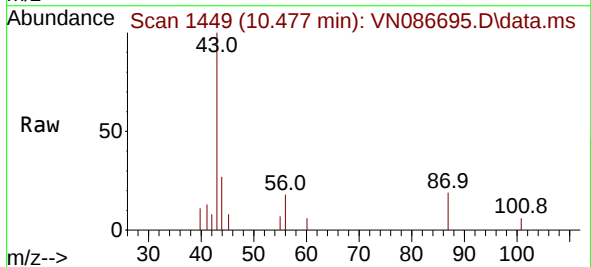
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

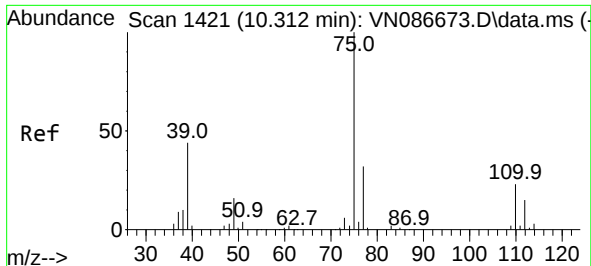
Tgt Ion: 98 Resp: 456250
Ion Ratio Lower Upper
98 100
100 65.3 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.461 ug/l
RT: 10.477 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion: 43 Resp: 4570
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

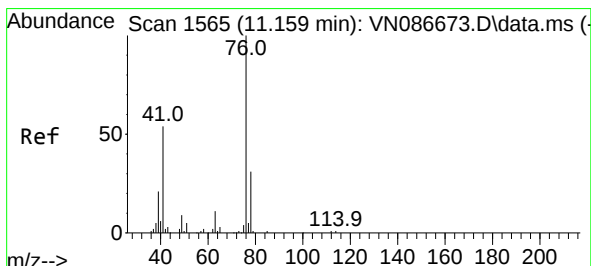
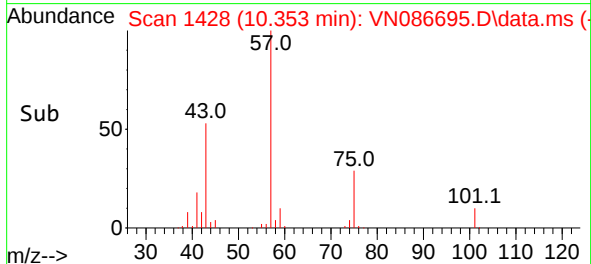
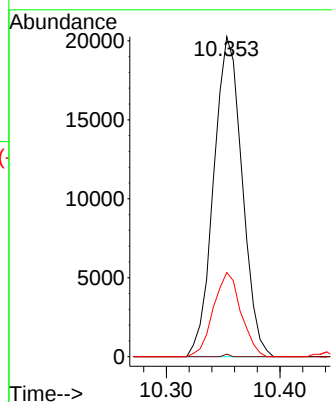
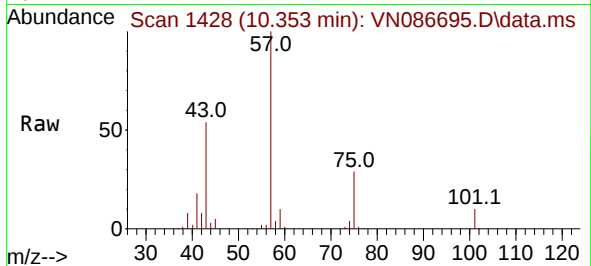




#54
cis-1,3-Dichloropropene
Concen: 9.243 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

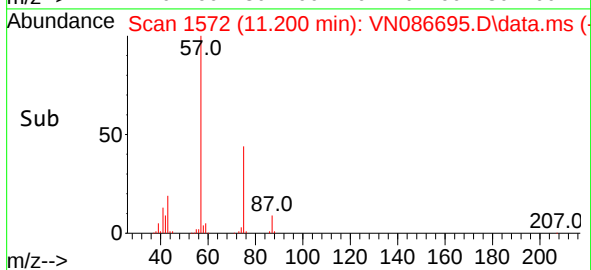
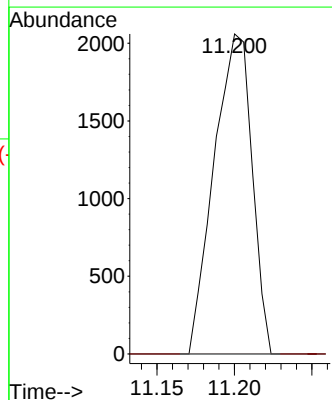
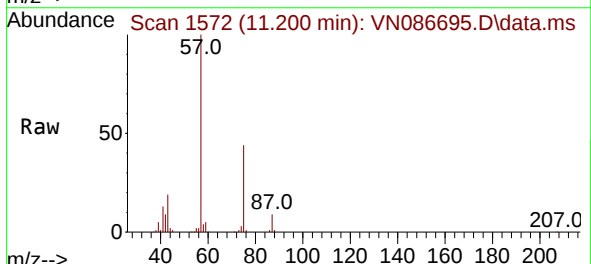
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

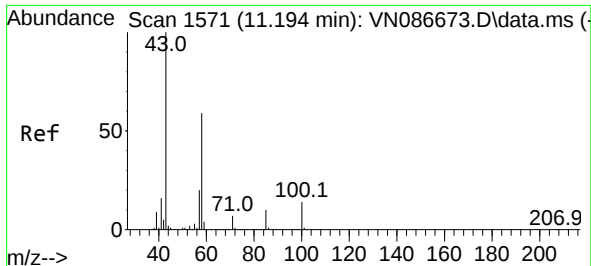
Tgt Ion: 75 Resp: 35259
Ion Ratio Lower Upper
75 100
77 0.8 25.3 37.9#
39 26.3 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 0.879 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion: 76 Resp: 3510
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

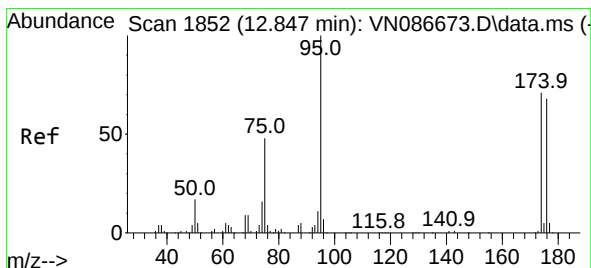
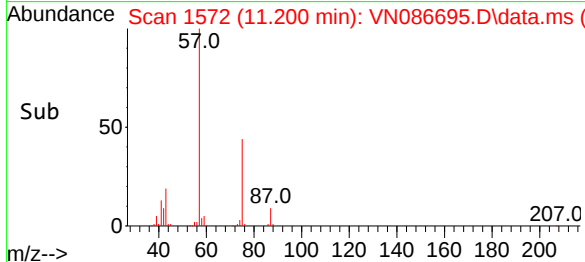
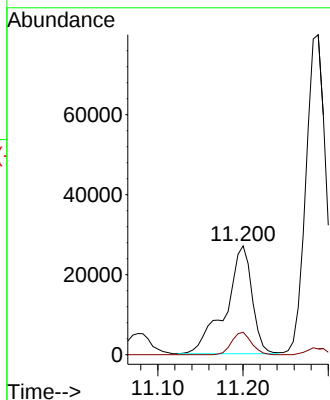
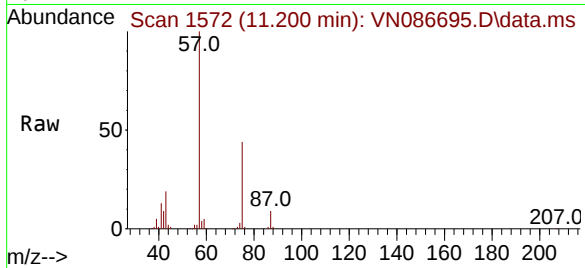




#59
2-Hexanone
Concen: 25.361 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

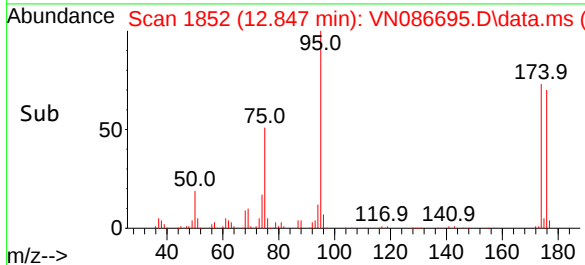
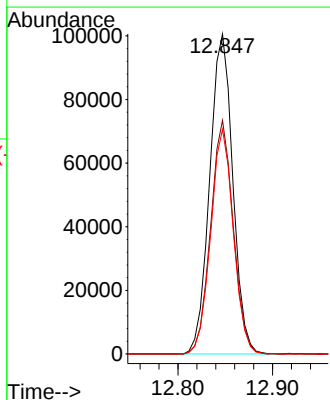
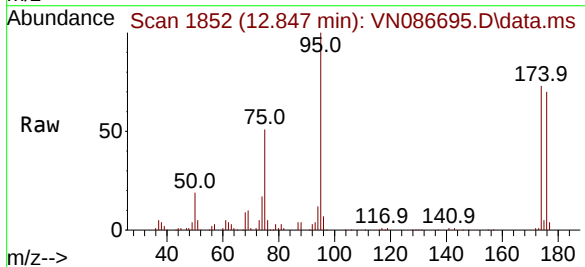
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

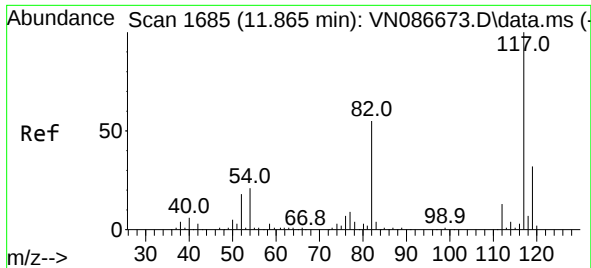
Tgt Ion: 43 Resp: 57939
Ion Ratio Lower Upper
43 100
58 15.6 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 55.952 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion: 95 Resp: 170036
Ion Ratio Lower Upper
95 100
174 71.7 0.0 145.4
176 68.8 0.0 137.8

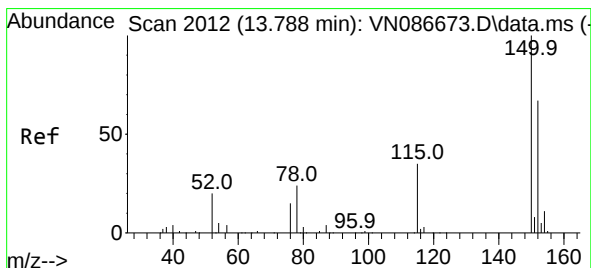
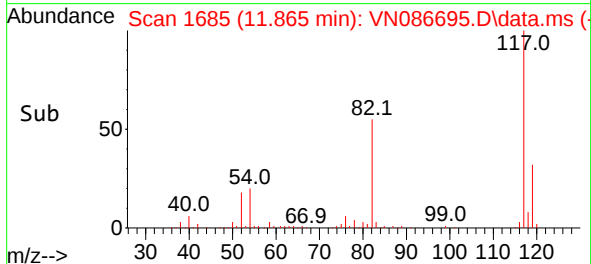
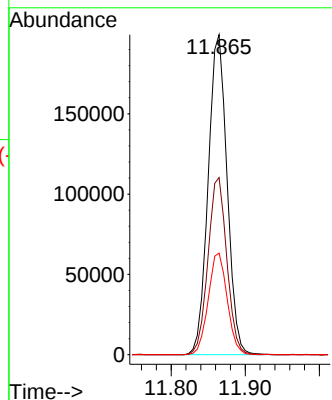
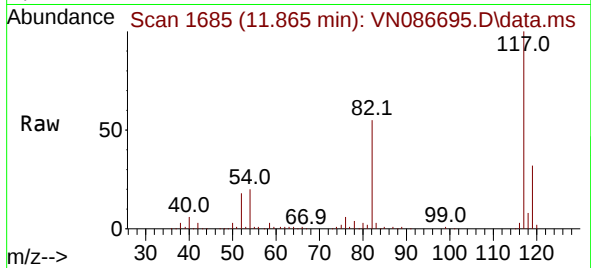




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

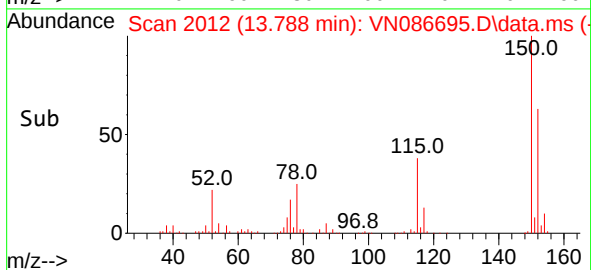
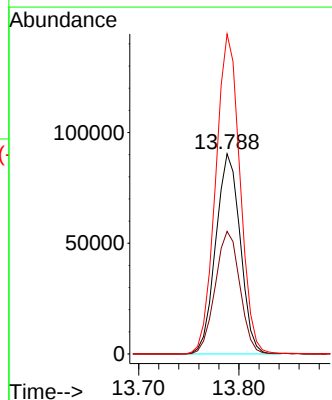
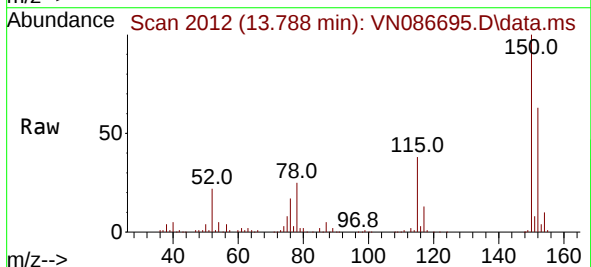
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

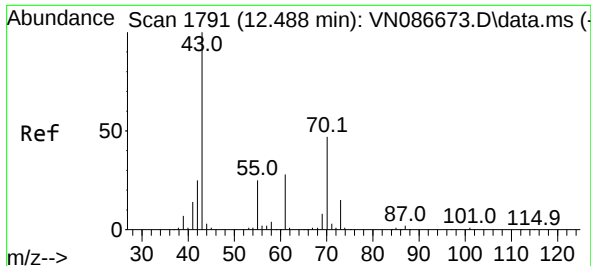
Tgt Ion:117 Resp: 352774
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 31.7 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

Tgt Ion:152 Resp: 153103
Ion Ratio Lower Upper
152 100
115 62.0 30.0 90.1
150 159.2 0.0 347.8

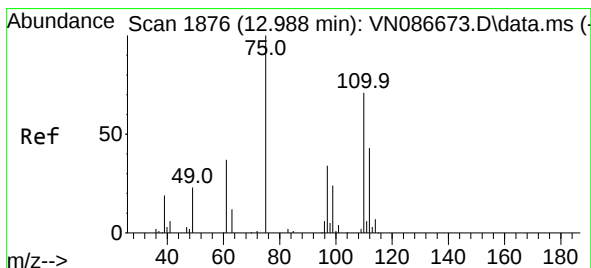
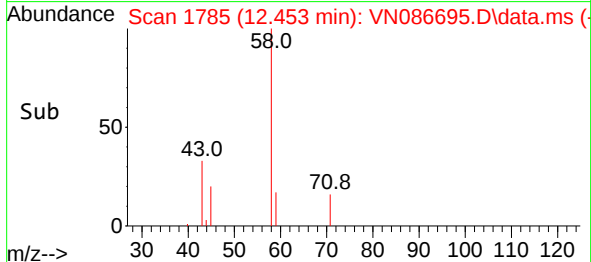
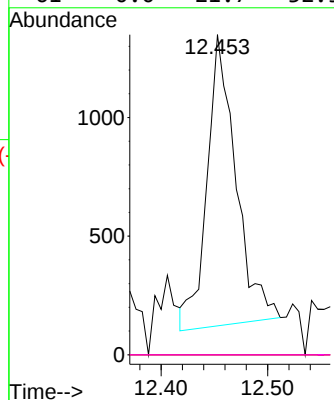
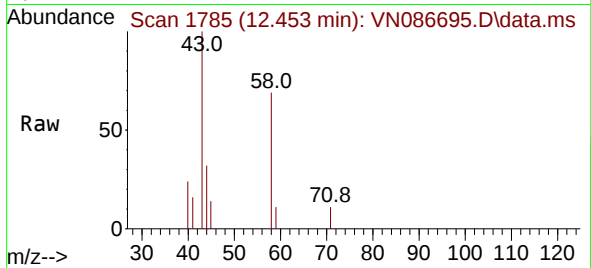




#74
N-amy1 acetate
Concen: 0.466 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

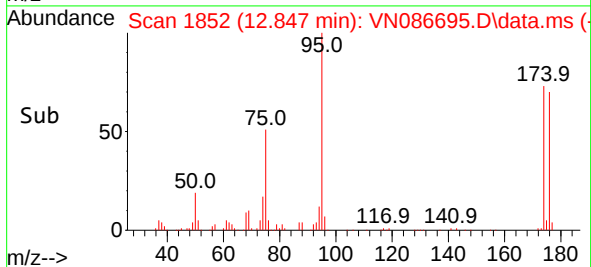
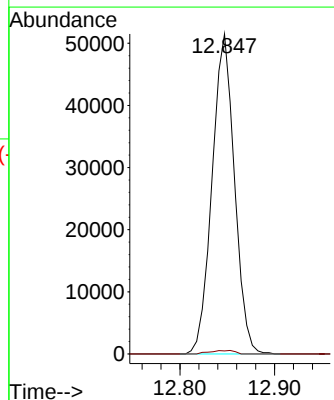
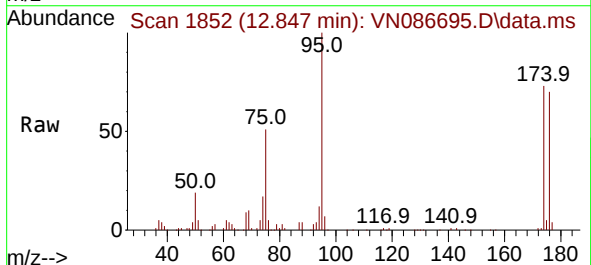
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#12

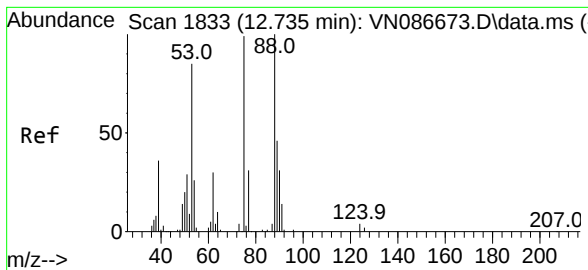
Tgt Ion: 43	Resp:	2304	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.9	56.9#
55	0.0	20.5	30.7#
61	0.0	21.7	32.5#



#76
1,2,3-Trichloropropane
Concen: 24.427 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086695.D
Acq: 19 May 2025 17:28

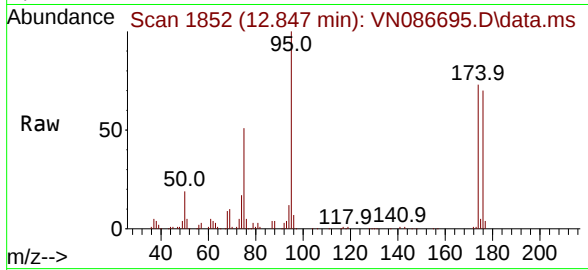
Tgt Ion: 75	Resp:	84579	
Ion Ratio	Lower	Upper	
75 100			
77 1.2	96.0	288.1#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.645 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086695.D
 Acq: 19 May 2025 17:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#12



Tgt Ion: 75 Resp: 84579
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

