

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086694.D
 Acq On : 19 May 2025 17:04
 Operator : JC\MD
 Sample : PB168034ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#11

Quant Time: May 20 03:21:43 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)

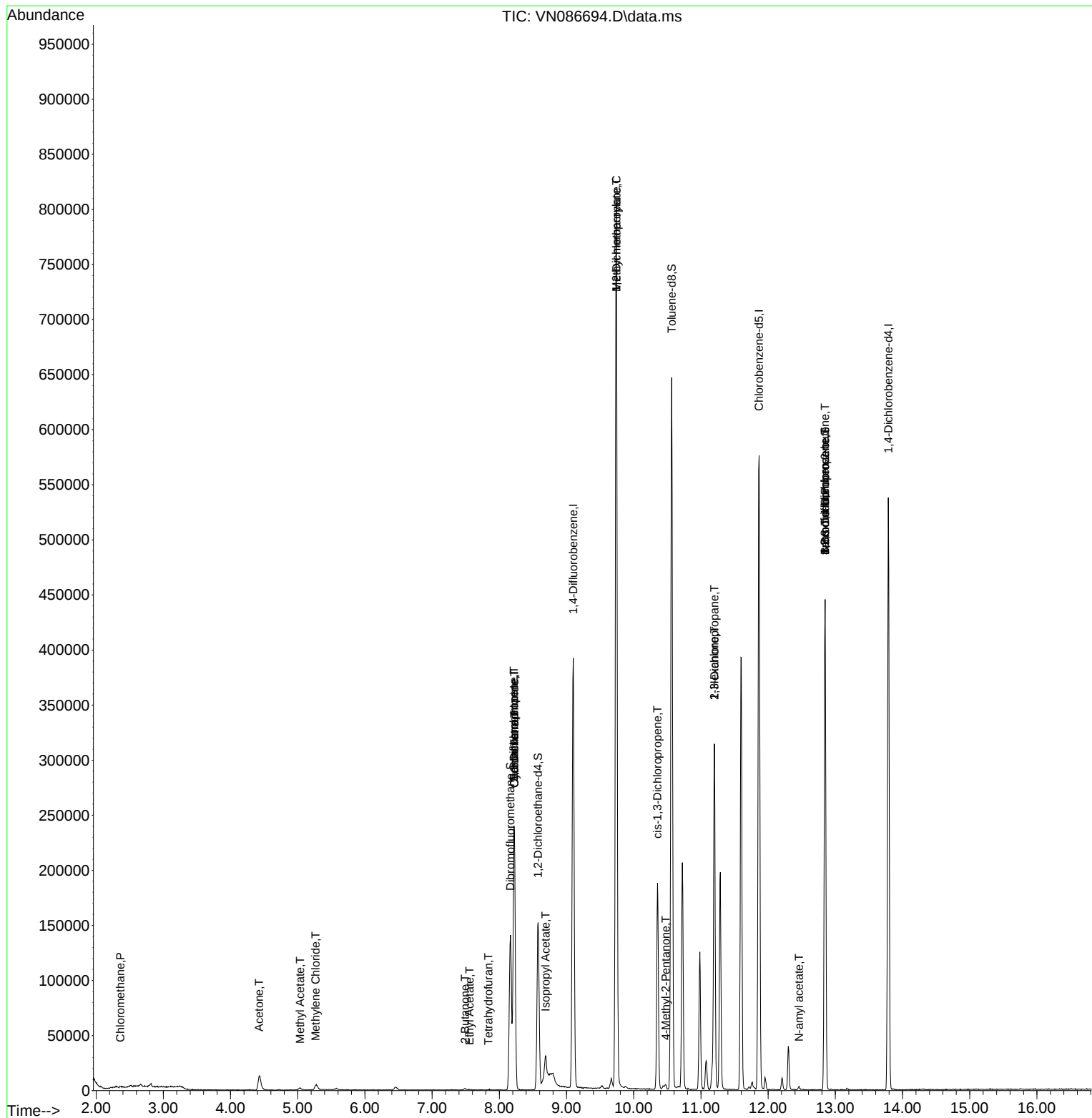
Internal Standards						
1) Pentafluorobenzene	8.218	168	179703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	352794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	345743	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146818	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	126604	50.985	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.960%			
35) Dibromofluoromethane	8.165	113	105543	50.234	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.460%			
50) Toluene-d8	10.565	98	455844	52.355	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.700%			
62) 4-Bromofluorobenzene	12.847	95	164985	53.665	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.340%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	937	0.319	ug/l #	71
16) Acetone	4.424	43	25791	27.766	ug/l #	88
18) Methyl Acetate	5.036	43	4305	1.656	ug/l #	76
20) Methylene Chloride	5.265	84	3986	1.626	ug/l #	88
25) 2-Butanone	7.489	43	2728	1.901	ug/l	94
29) Tetrahydrofuran	7.836	42	458	0.489	ug/l #	30
31) Cyclohexane	8.224	56	3712	0.996	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14659	4.730	ug/l #	47
37) Ethyl Acetate	7.559	43	723	0.231	ug/l #	67
38) Carbon Tetrachloride	8.224	117	17638	5.776	ug/l #	16
43) Isopropyl Acetate	8.688	43	45664	7.276	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	995	0.414	ug/l #	42
48) Methyl methacrylate	9.741	41	71597	29.441	ug/l #	37
51) 4-Methyl-2-Pentanone	10.477	43	5585	1.765	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	35369	9.165	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	3533	0.875	ug/l #	42
59) 2-Hexanone	11.200	43	56940	24.637	ug/l #	42
71) Bromoform	12.847	173	893	0.513	ug/l #	1
74) N-amyl acetate	12.459	43	3013	0.636	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	80458	24.231	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80458	61.151	ug/l #	15

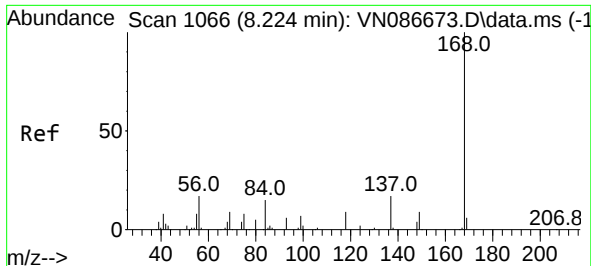
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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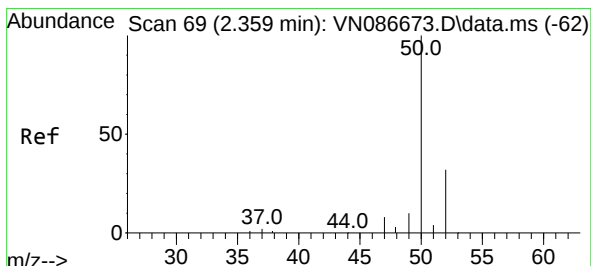
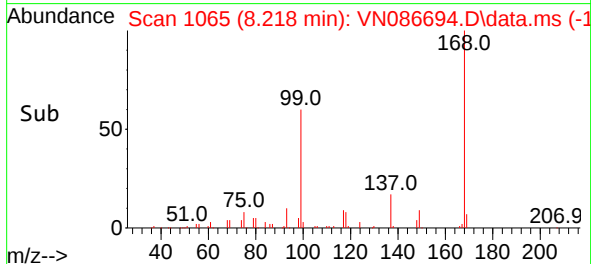
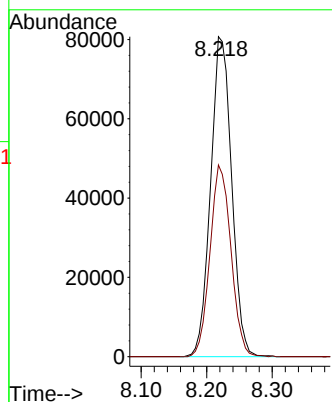
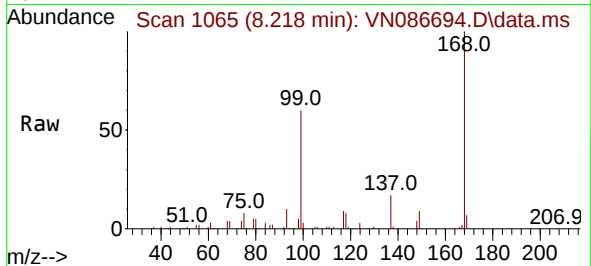




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

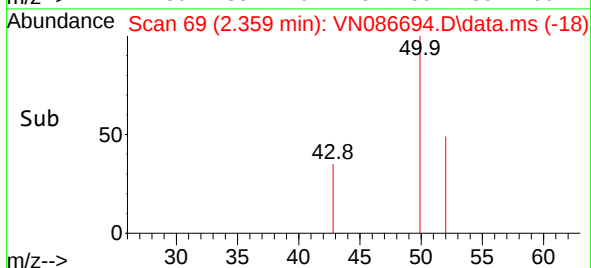
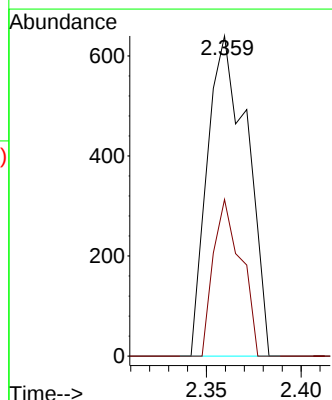
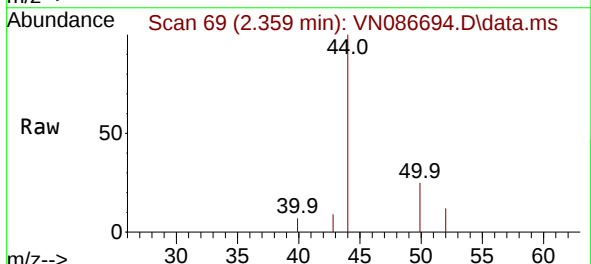
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#11

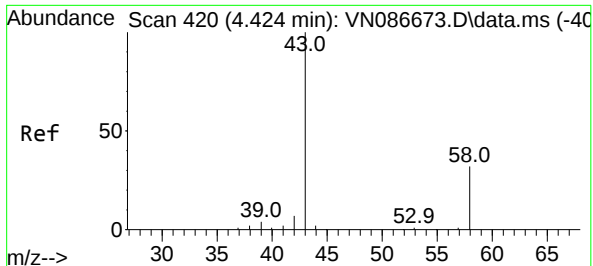
Tgt Ion:168 Resp: 179703
Ion Ratio Lower Upper
168 100
99 59.9 47.0 70.4



#3
Chloromethane
Concen: 0.319 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Tgt Ion: 50 Resp: 937
Ion Ratio Lower Upper
50 100
52 48.9 25.9 38.9#

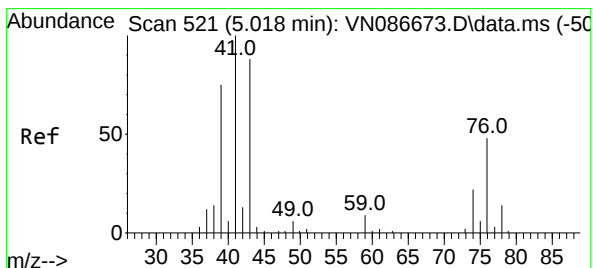
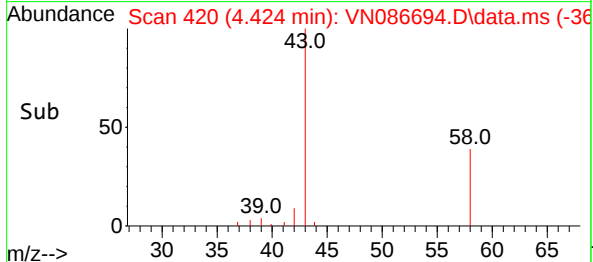
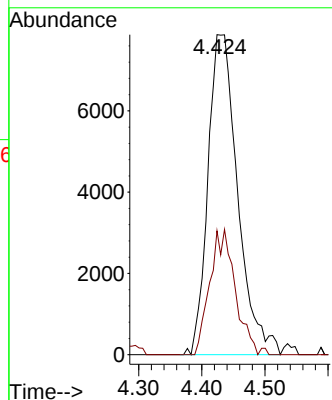
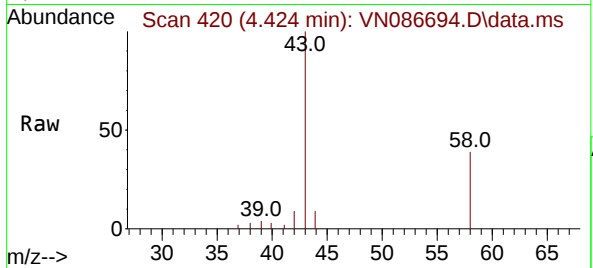




#16
Acetone
Concen: 27.766 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

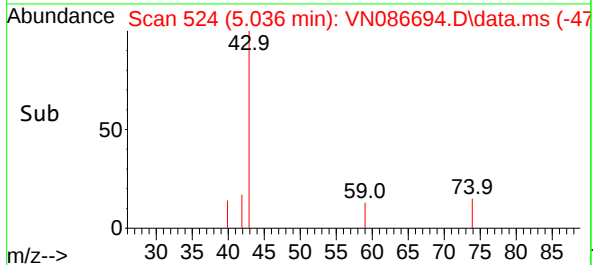
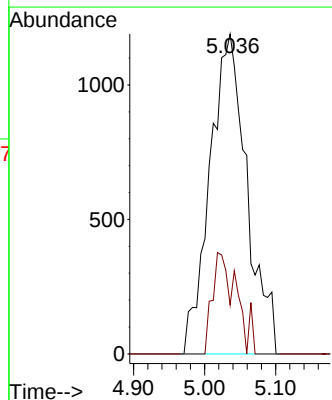
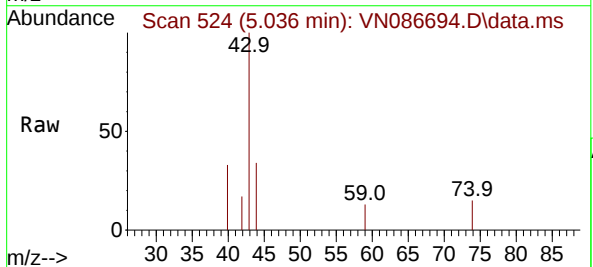
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#11

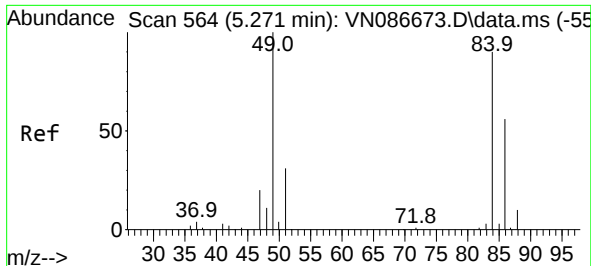
Tgt Ion: 43 Resp: 25791
Ion Ratio Lower Upper
43 100
58 38.7 25.8 38.6#



#18
Methyl Acetate
Concen: 1.656 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Tgt Ion: 43 Resp: 4305
Ion Ratio Lower Upper
43 100
74 13.4 20.5 30.7#

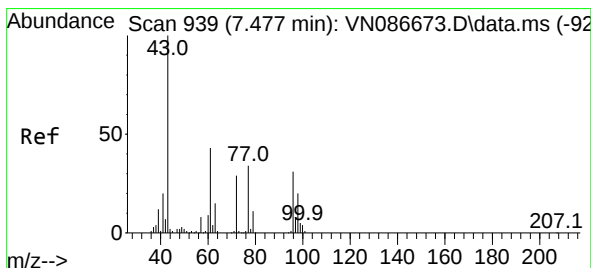
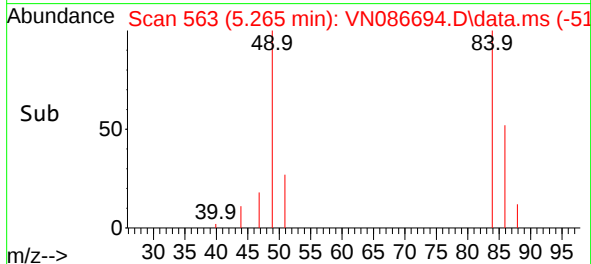
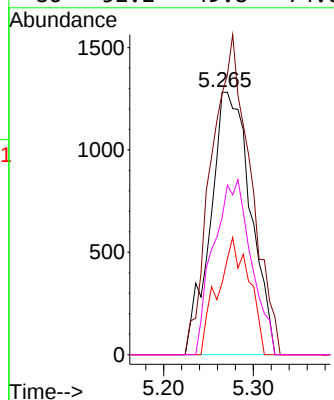
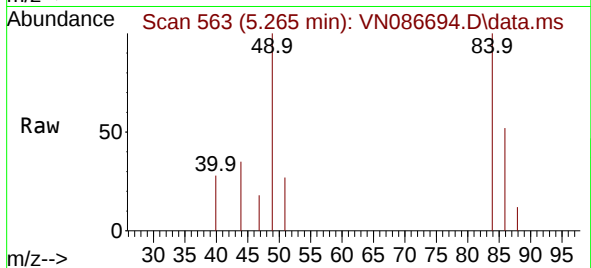




#20
Methylene Chloride
Concen: 1.626 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

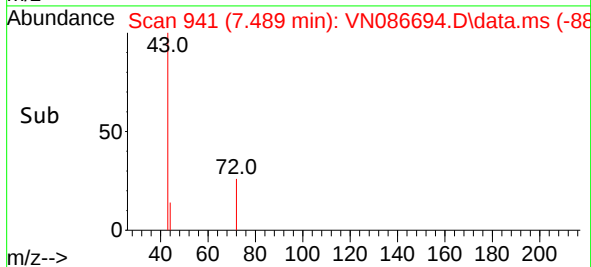
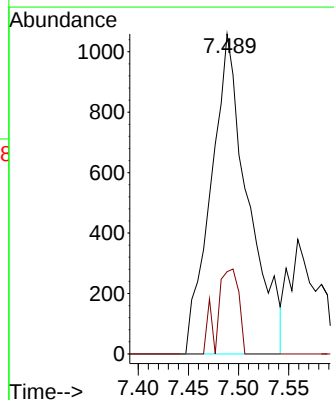
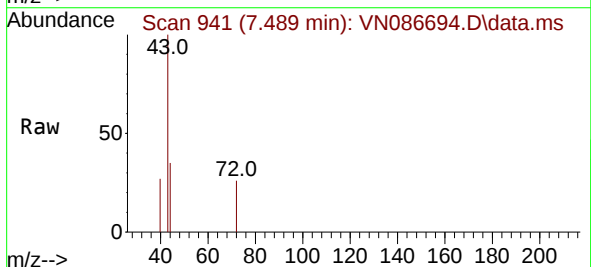
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#11

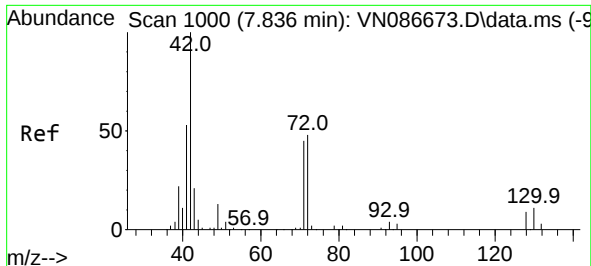
Tgt Ion:	84	Resp:	3986
Ion	Ratio	Lower	Upper
84	100		
49	99.6	88.8	133.2
51	27.3	27.8	41.6#
86	52.2	49.8	74.6



#25
2-Butanone
Concen: 1.901 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Tgt Ion:	43	Resp:	2728
Ion	Ratio	Lower	Upper
43	100		
72	25.7	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.489 ug/l

RT: 7.836 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#11

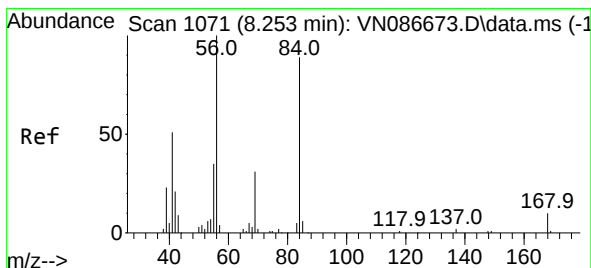
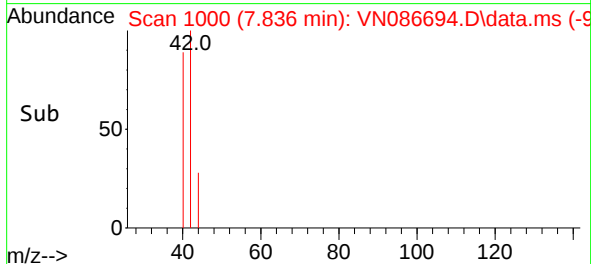
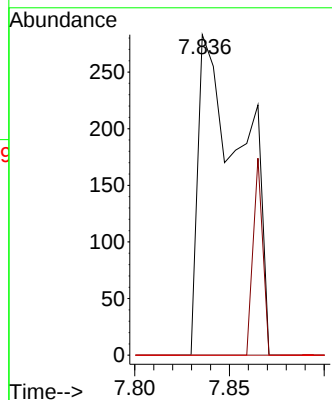
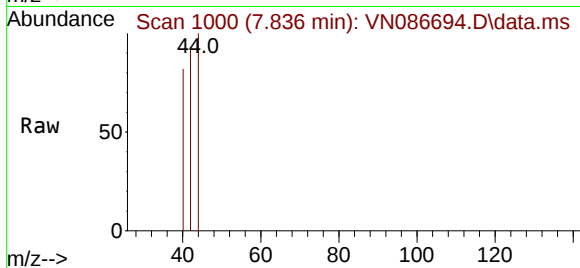
Tgt Ion: 42 Resp: 458

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 0.996 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

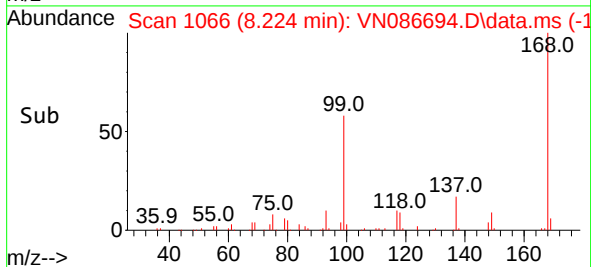
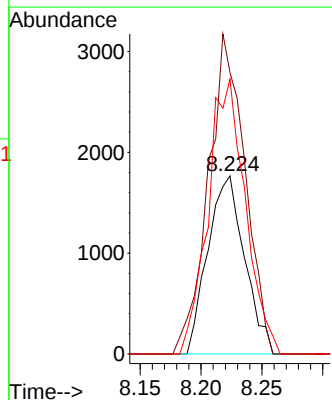
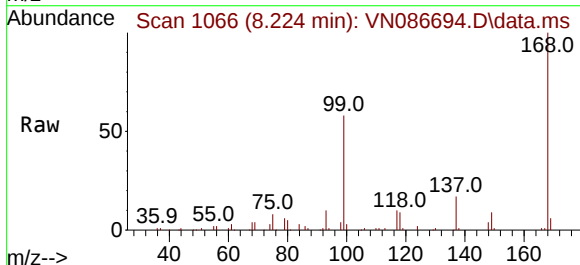
Tgt Ion: 56 Resp: 3712

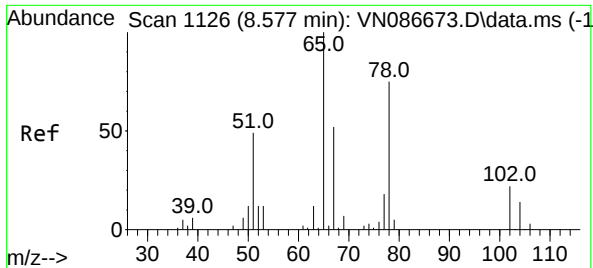
Ion Ratio Lower Upper

56 100

69 158.1 25.0 37.6#

84 154.4 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 50.985 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

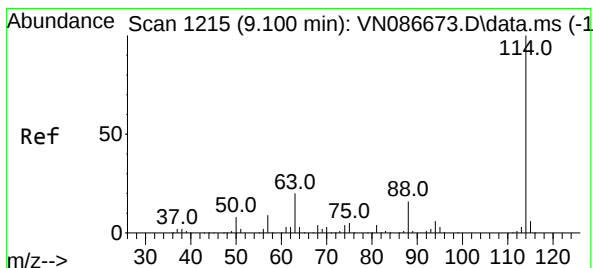
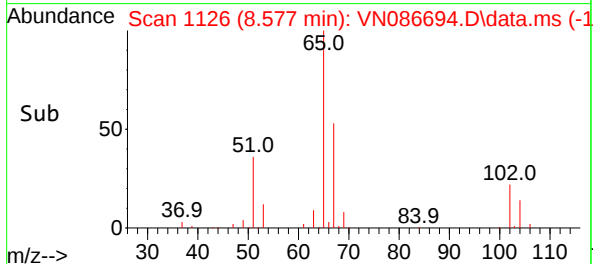
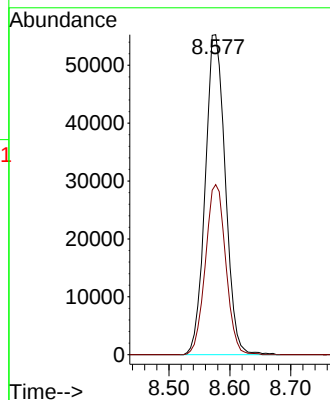
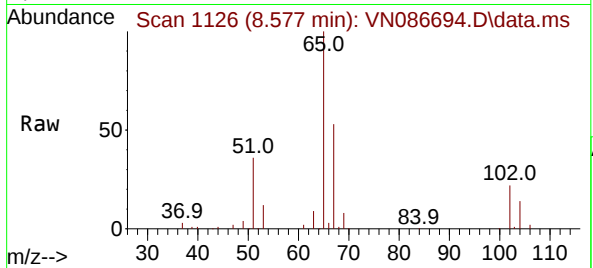
PB168034ZHE#11

Tgt Ion: 65 Resp: 126604

Ion Ratio Lower Upper

65 100

67 53.8 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: VN086694.D

Acq: 19 May 2025 17:04

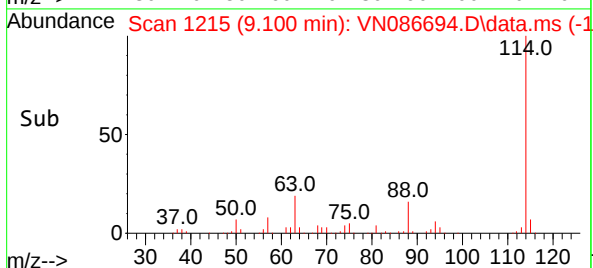
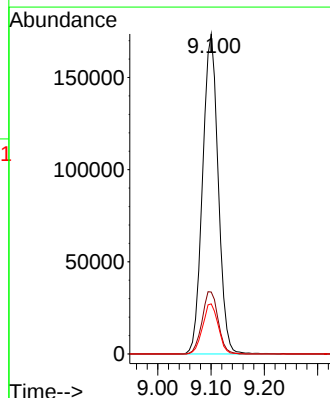
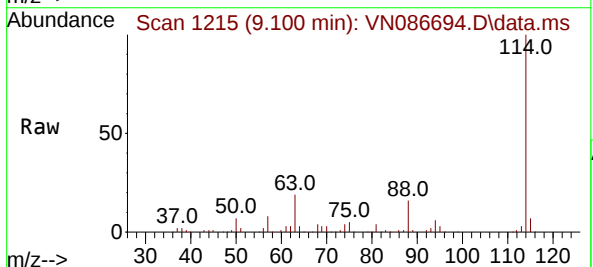
Tgt Ion: 114 Resp: 352794

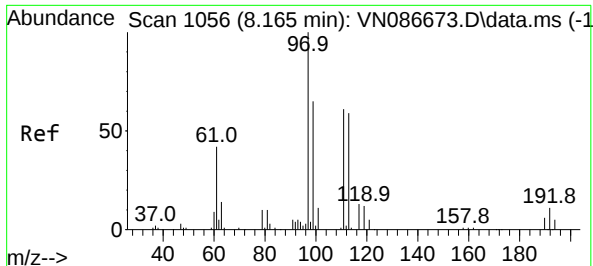
Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.2

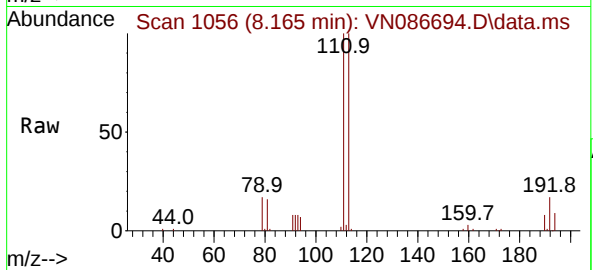
88 15.7 0.0 31.2



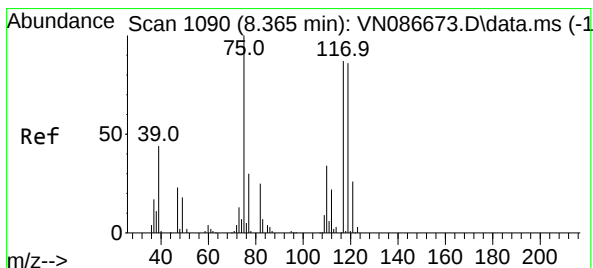
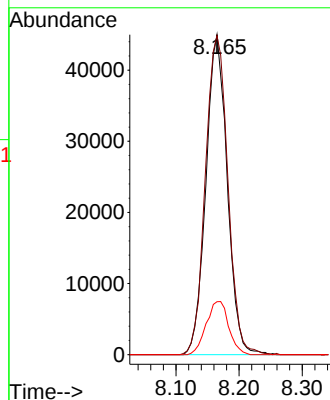
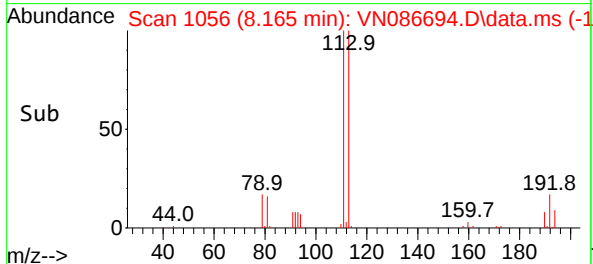


#35
Dibromofluoromethane
Concen: 50.234 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Instrument :
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PB168034ZHE#11

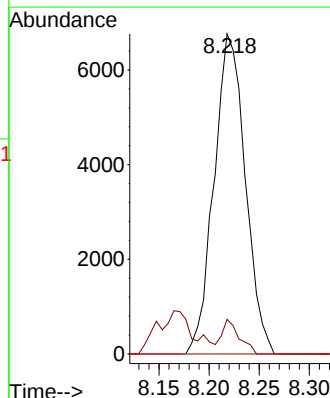
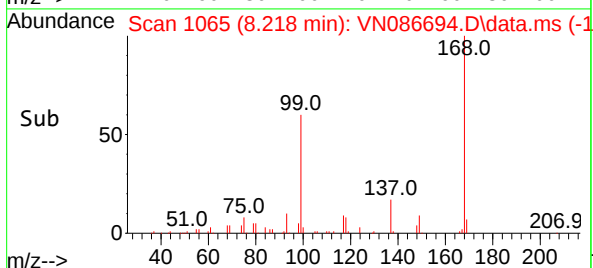
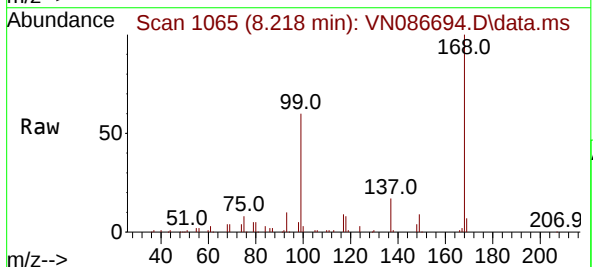


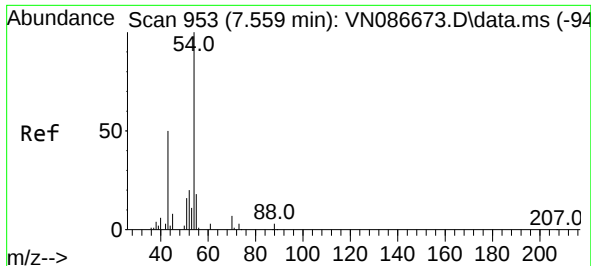
Tgt Ion:113 Resp: 105543
Ion Ratio Lower Upper
113 100
111 104.9 82.2 123.2
192 17.5 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.730 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Tgt Ion: 75 Resp: 14659
Ion Ratio Lower Upper
75 100
110 5.9 17.5 52.5#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.231 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086694.D

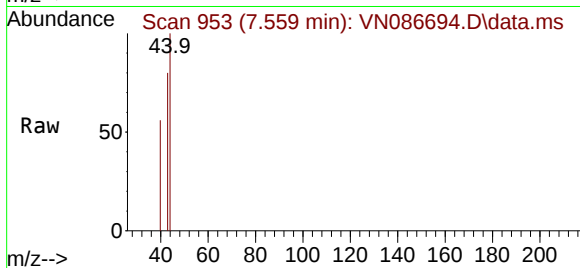
Acq: 19 May 2025 17:04

Instrument :

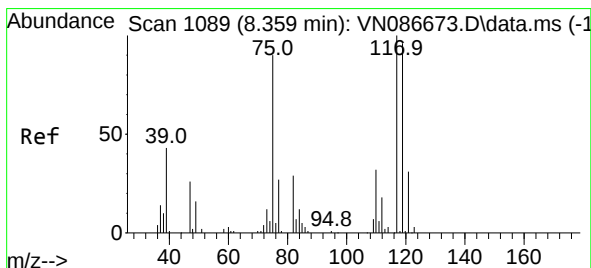
MSVOA_N

ClientSampleId :

PB168034ZHE#11



Tgt Ion:	43	Resp:	723
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.6	17.4#
70	0.0	9.4	14.0#



#38

Carbon Tetrachloride

Concen: 5.776 ug/l

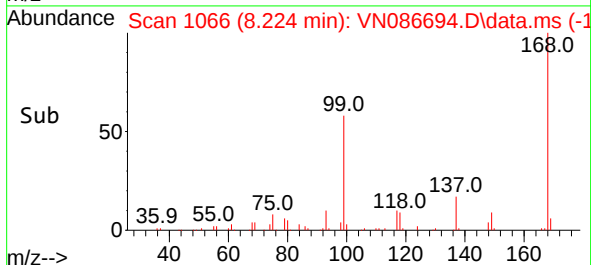
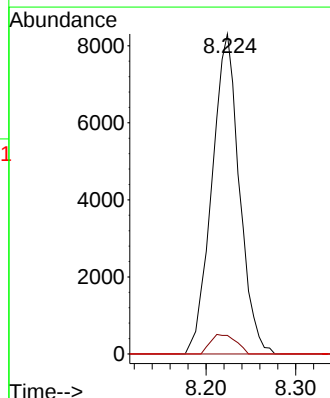
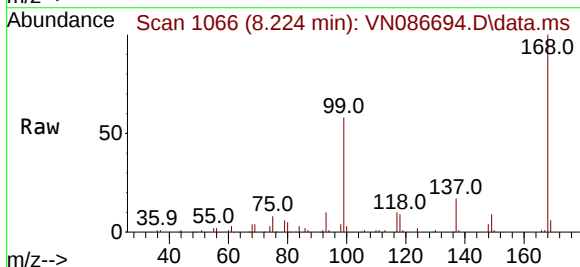
RT: 8.224 min Scan# 1066

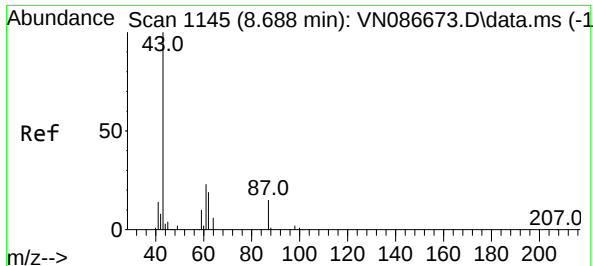
Delta R.T. -0.135 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Tgt Ion:	117	Resp:	17638
Ion	Ratio	Lower	Upper
117	100		
119	5.8	77.0	115.6#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 7.276 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

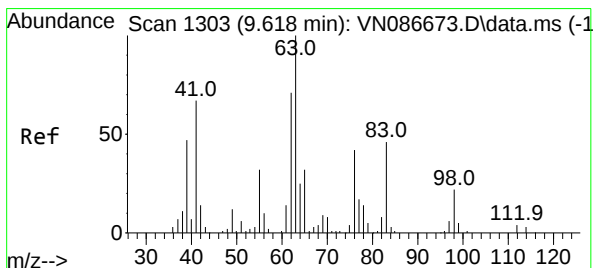
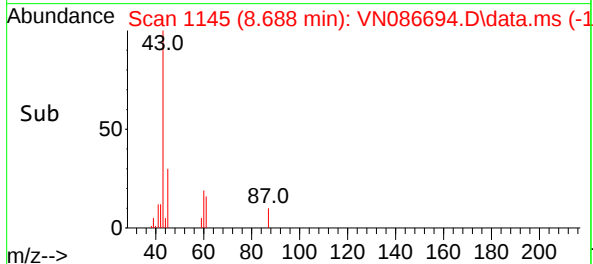
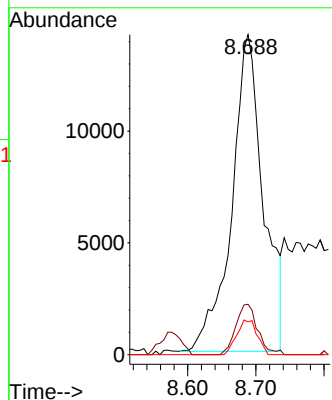
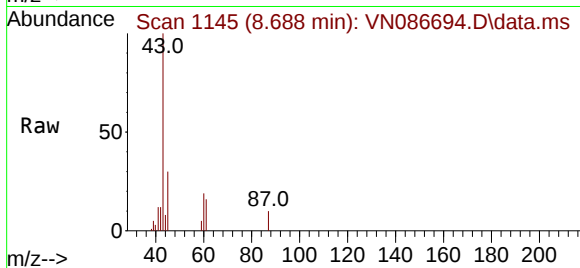
Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#11

Tgt Ion:	43	Resp:	45664
Ion	Ratio	Lower	Upper
43	100		
61	11.0	21.4	32.2#
87	7.1	11.1	16.7#



#45

1,2-Dichloropropane

Concen: 0.414 ug/l

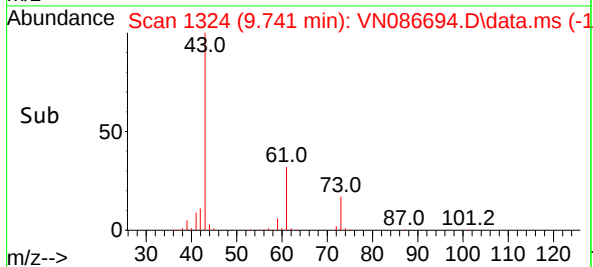
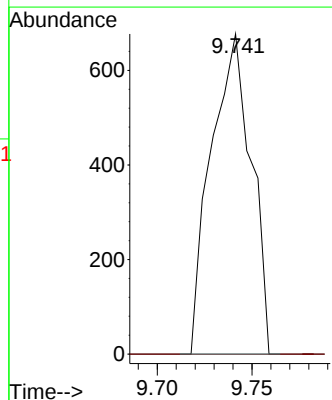
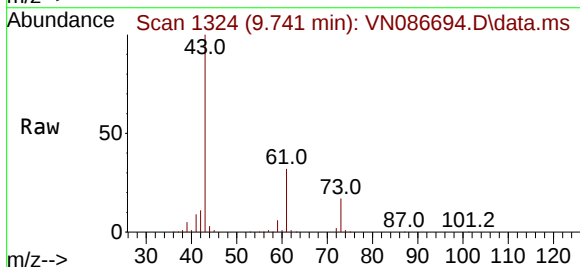
RT: 9.741 min Scan# 1324

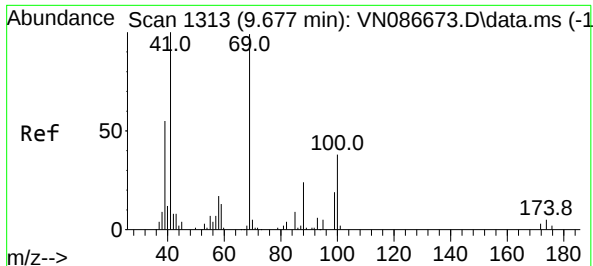
Delta R.T. 0.124 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Tgt Ion:	63	Resp:	995
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6#





#48

Methyl methacrylate

Concen: 29.441 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#11

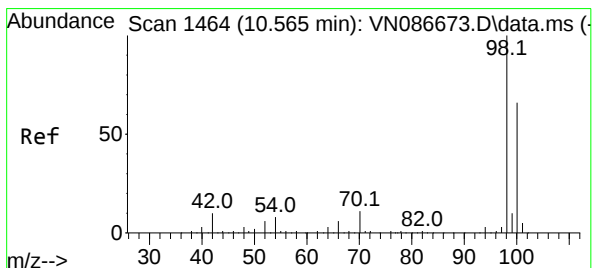
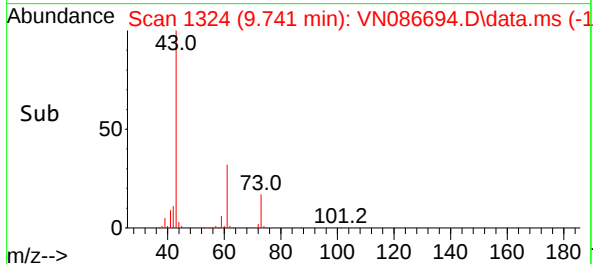
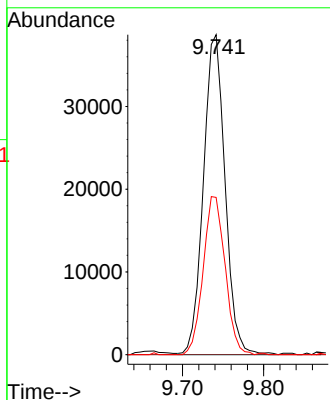
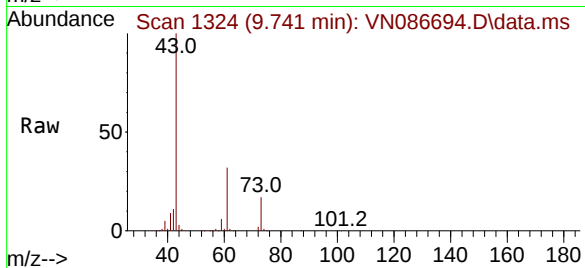
Tgt Ion: 41 Resp: 71597

Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 50.1 44.1 66.1



#50

Toluene-d8

Concen: 52.355 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086694.D

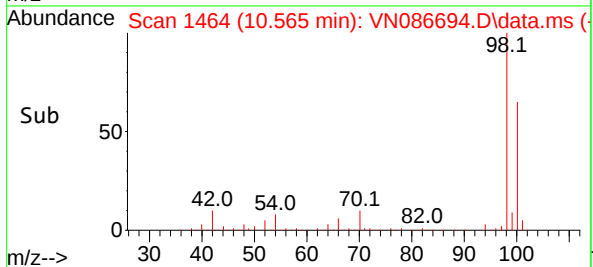
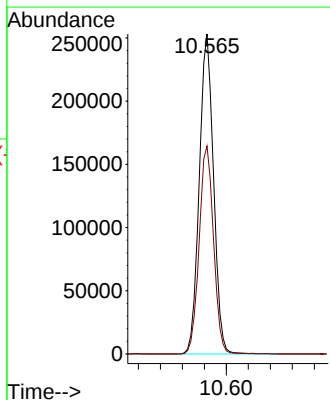
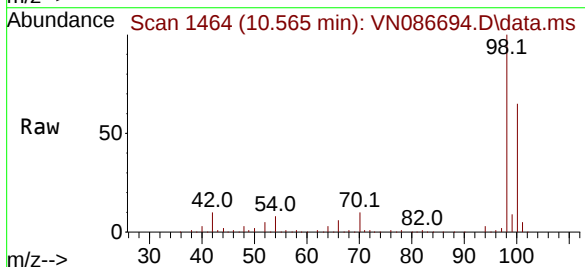
Acq: 19 May 2025 17:04

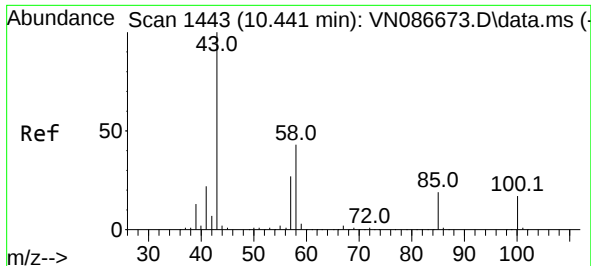
Tgt Ion: 98 Resp: 455844

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 1.765 ug/l

RT: 10.477 min Scan# 1449

Delta R.T. 0.035 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

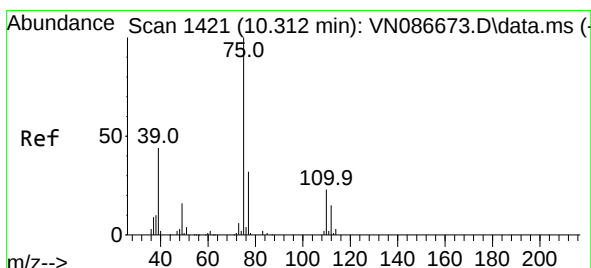
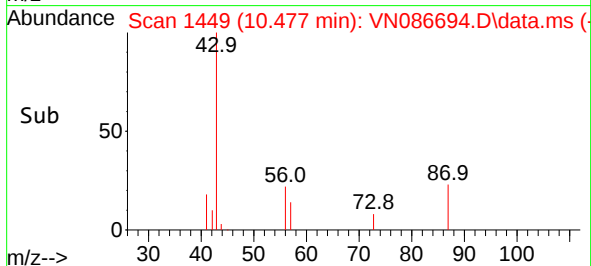
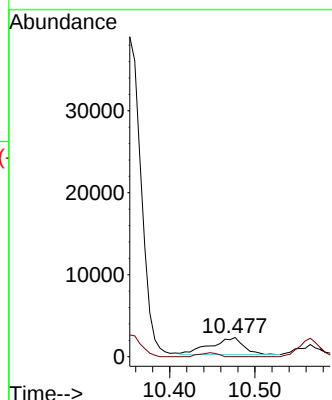
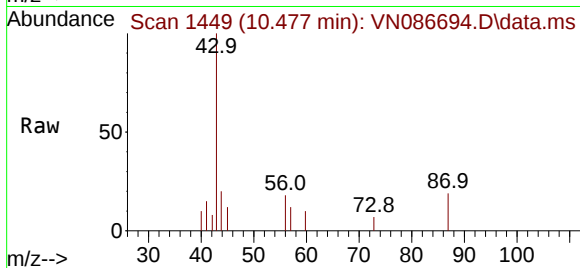
PB168034ZHE#11

Tgt Ion: 43 Resp: 5585

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#



#54

cis-1,3-Dichloropropene

Concen: 9.165 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

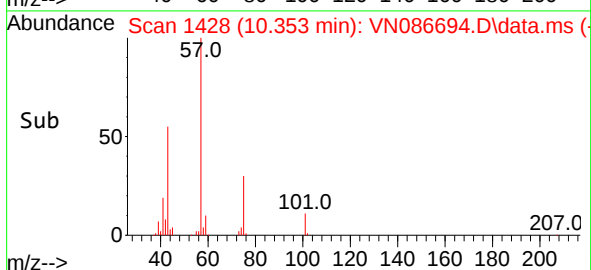
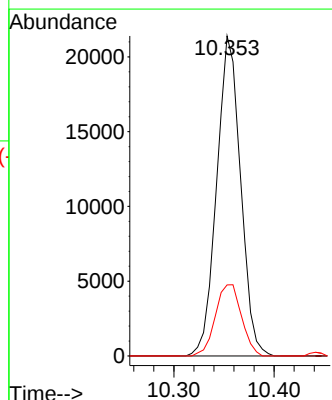
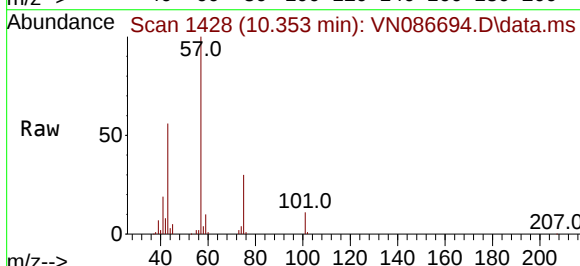
Tgt Ion: 75 Resp: 35369

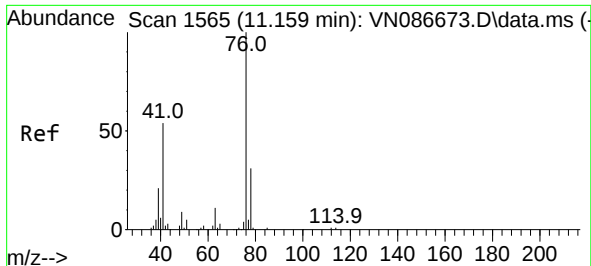
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 22.2 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.875 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

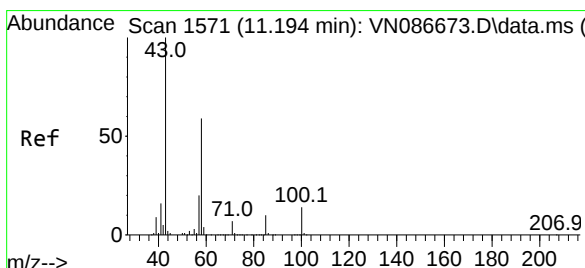
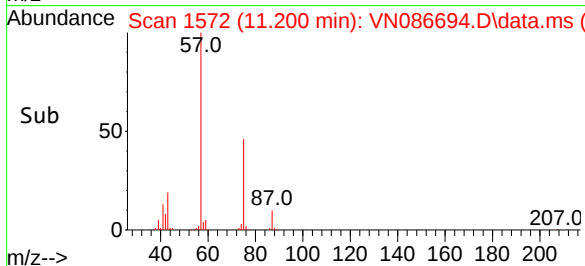
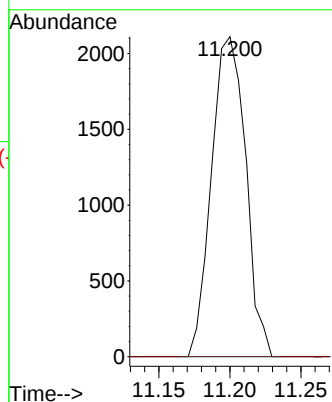
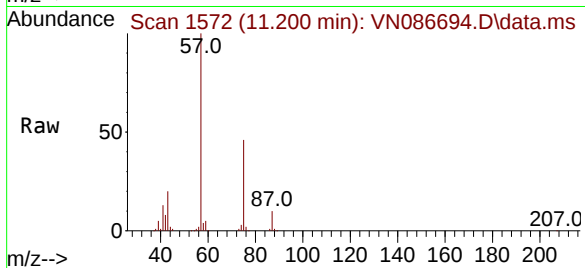
PB168034ZHE#11

Tgt Ion: 76 Resp: 3533

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 24.637 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086694.D

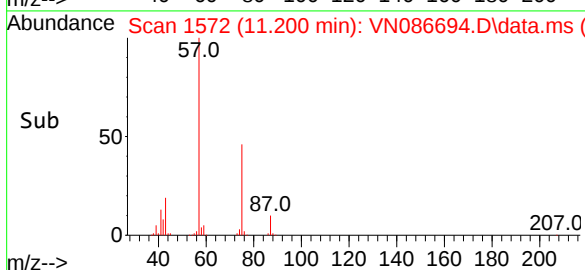
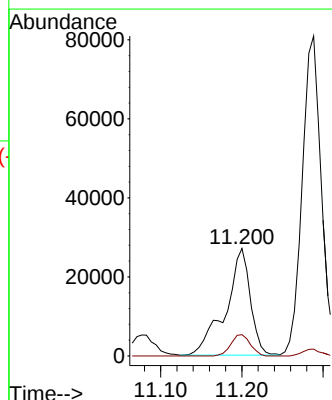
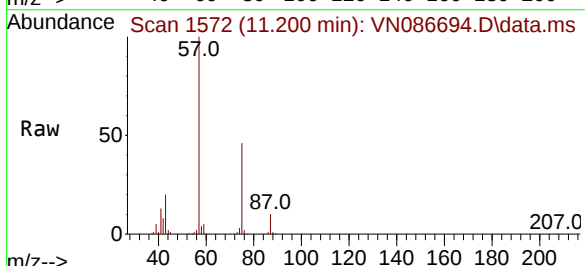
Acq: 19 May 2025 17:04

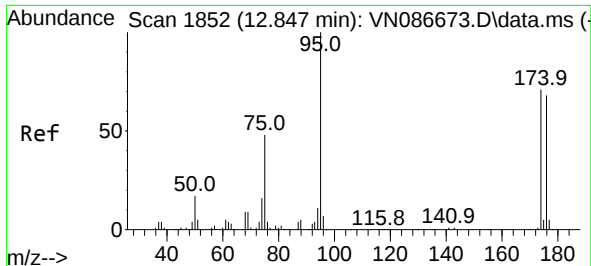
Tgt Ion: 43 Resp: 56940

Ion Ratio Lower Upper

43 100

58 15.8 29.8 89.5#

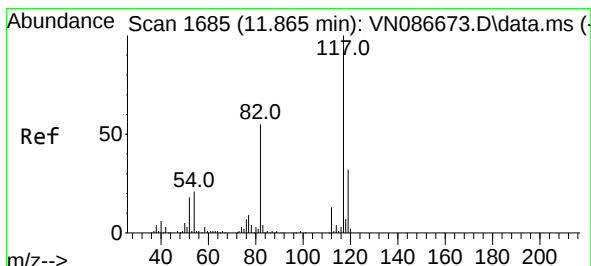
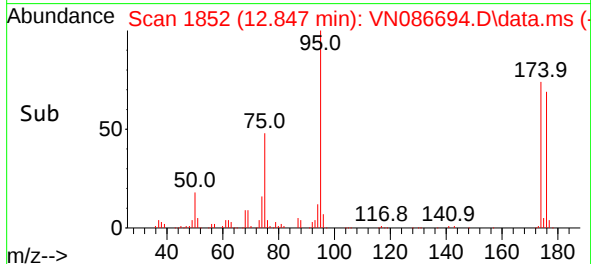
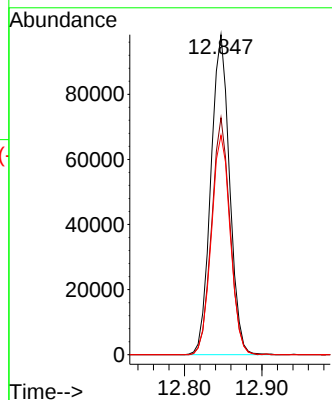
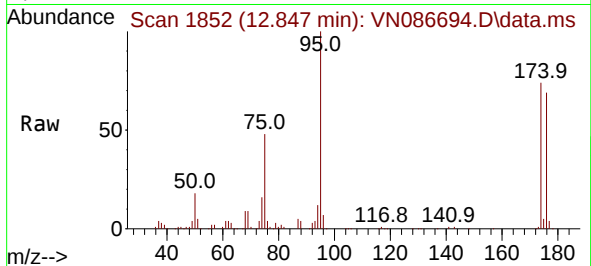




#62
4-Bromofluorobenzene
Concen: 53.665 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

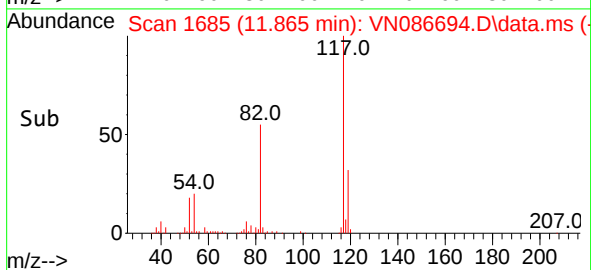
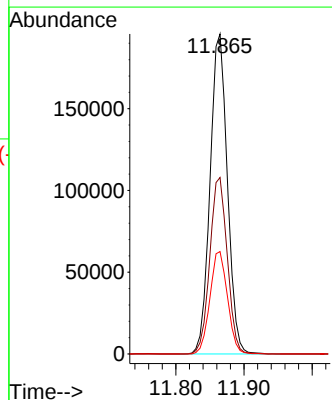
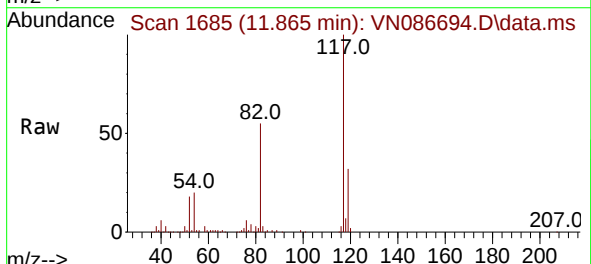
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#11

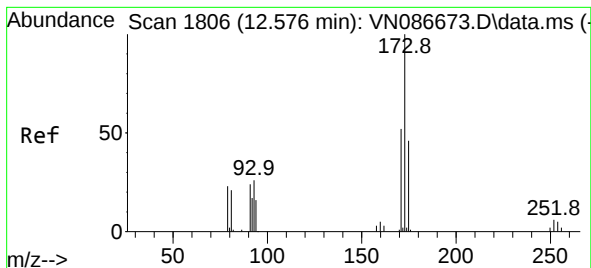
Tgt Ion: 95 Resp: 164985
Ion Ratio Lower Upper
95 100
174 72.7 0.0 145.4
176 69.3 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

Tgt Ion: 117 Resp: 345743
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 32.0 25.4 38.2





#71

Bromoform

Concen: 0.513 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#11

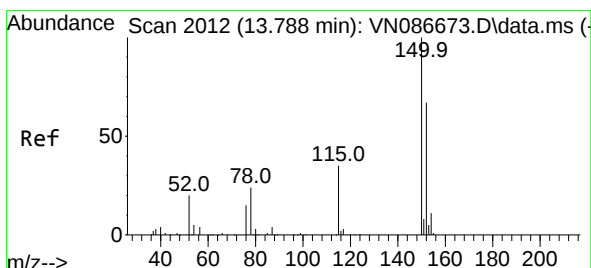
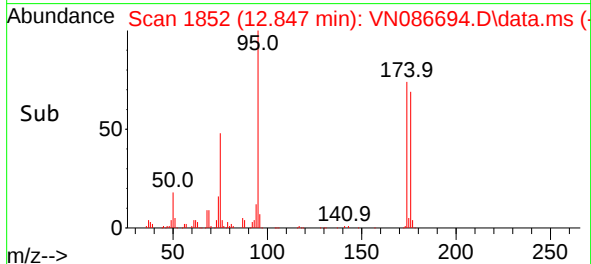
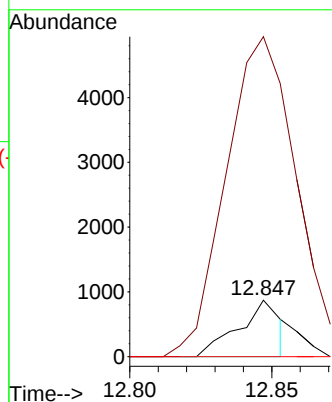
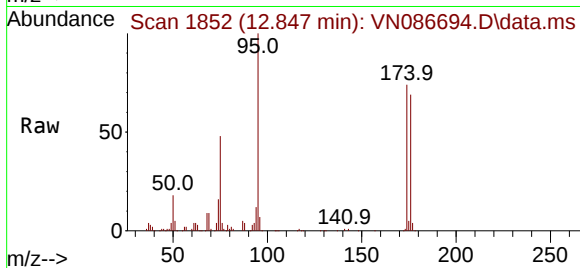
Tgt Ion:173 Resp: 893

Ion Ratio Lower Upper

173 100

175 760.0 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# 1212

Delta R.T. 0.000 min

Lab File: VN086694.D

Acq: 19 May 2025 17:04

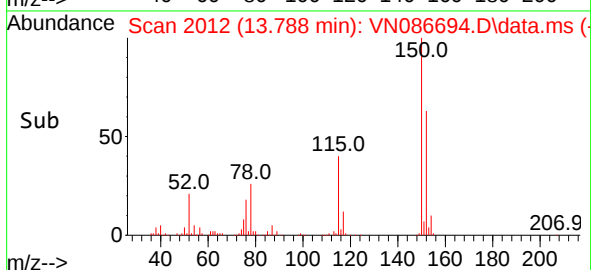
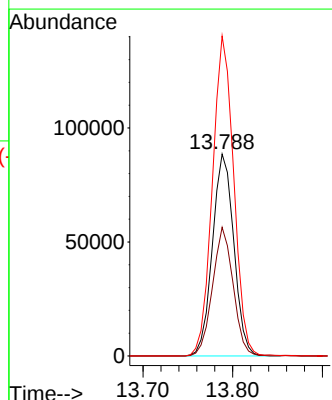
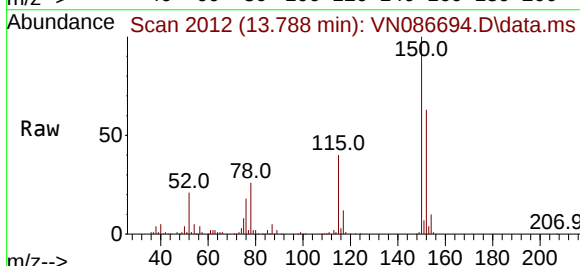
Tgt Ion:152 Resp: 146818

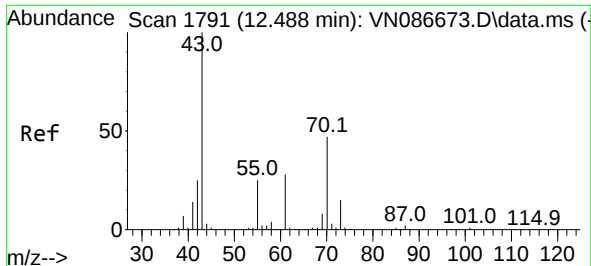
Ion Ratio Lower Upper

152 100

115 61.2 30.0 90.1

150 157.7 0.0 347.8

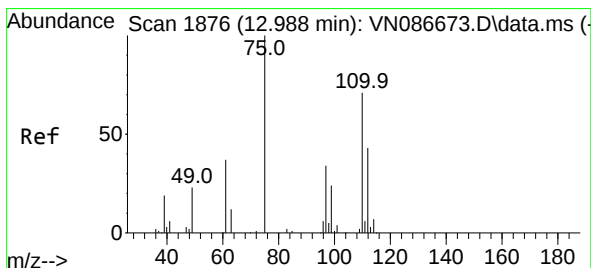
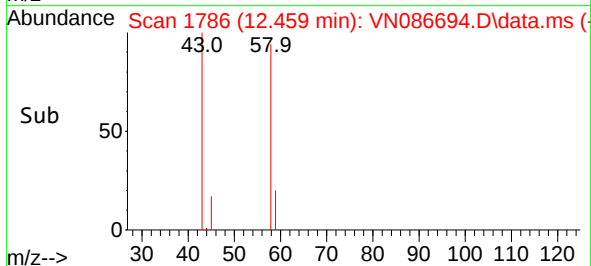
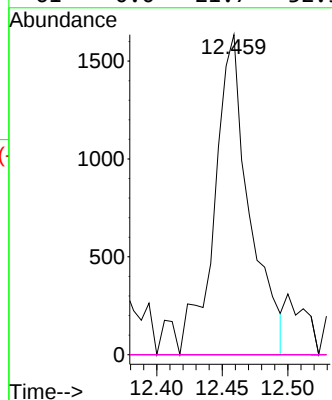
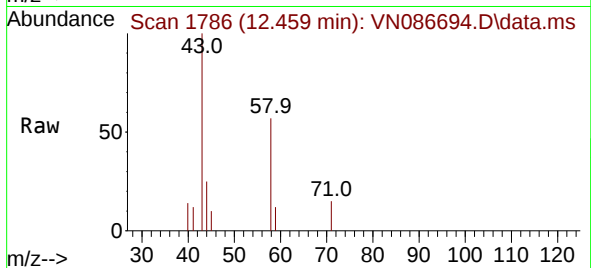




#74
N-amy1 acetate
Concen: 0.636 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.029 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

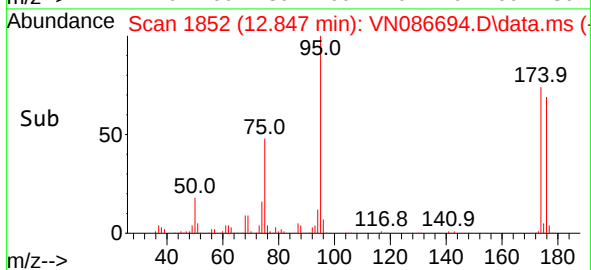
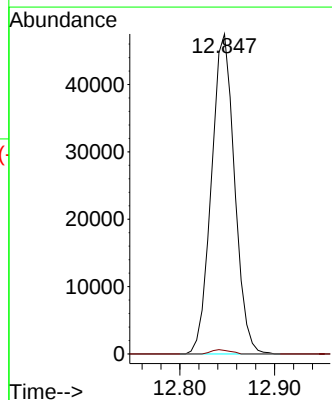
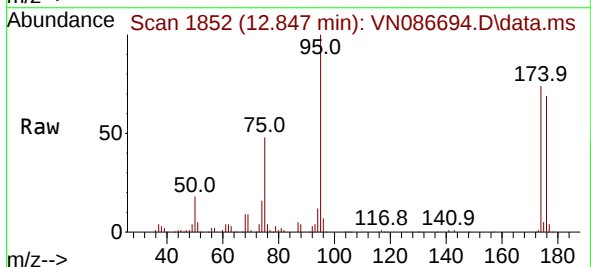
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#11

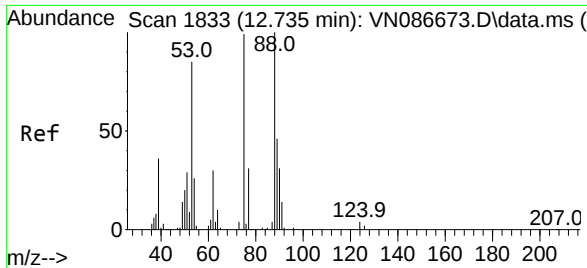
Tgt Ion: 43	Resp: 3013
Ion Ratio	Lower Upper
43 100	
70 0.0	37.9 56.9#
55 0.0	20.5 30.7#
61 0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.231 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086694.D
Acq: 19 May 2025 17:04

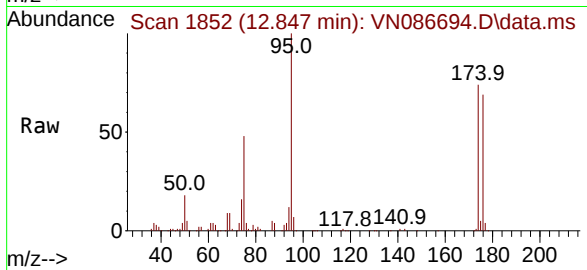
Tgt Ion: 75	Resp:	80458	
Ion Ratio	Lower	Upper	
75 100			
77 1.1	96.0	288.1#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.151 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086694.D
 Acq: 19 May 2025 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#11



Tgt Ion: 75 Resp: 80458
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

