

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086051.D
 Acq On : 21 Mar 2025 19:42
 Operator : JC\MD
 Sample : PB167234ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#11

Quant Time: Mar 21 23:04:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

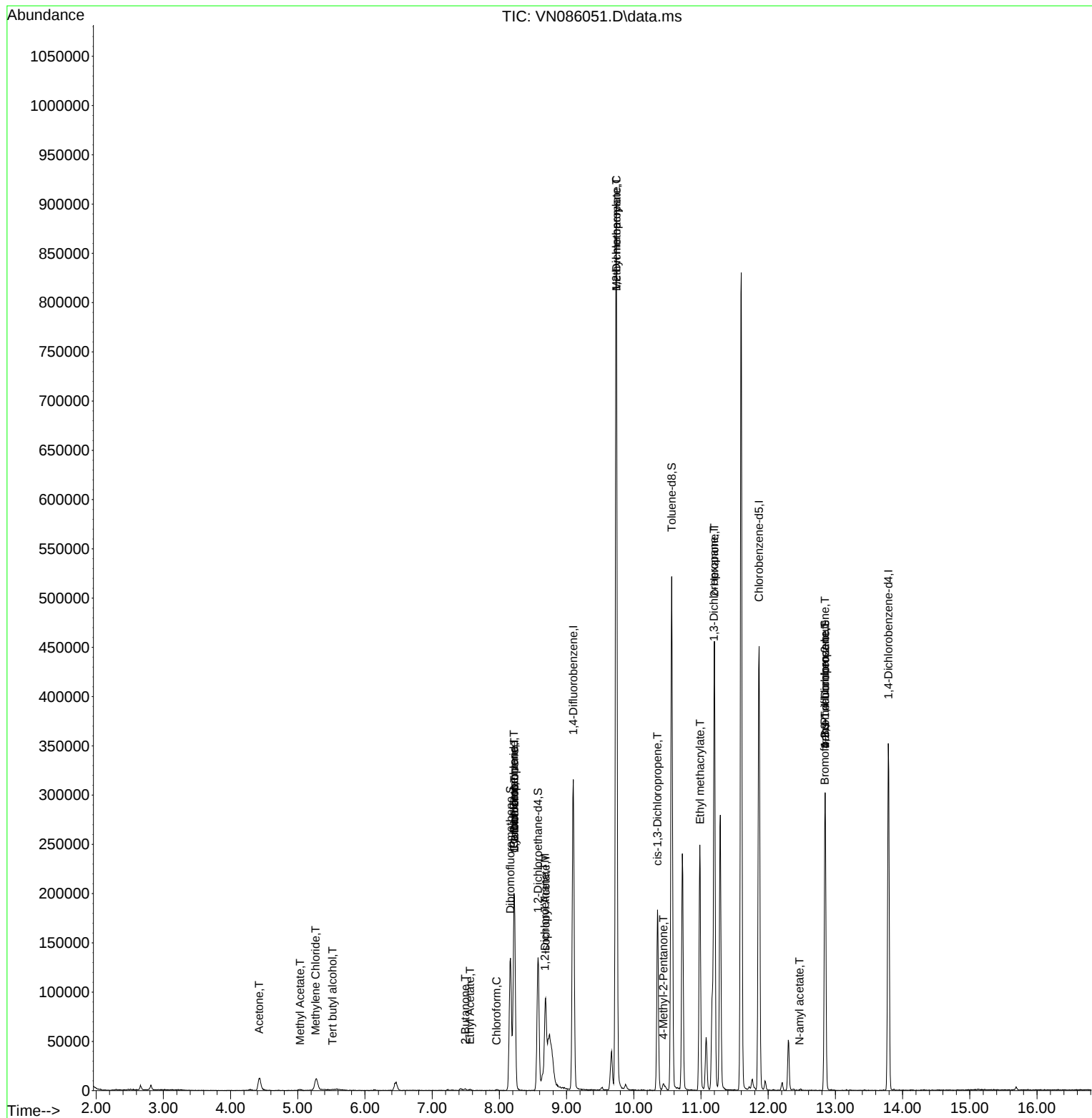
Internal Standards						
1) Pentafluorobenzene	8.218	168	145114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	277620	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	269609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	101479	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115577	58.164	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	116.320%
35) Dibromofluoromethane	8.165	113	96721	49.914	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.820%
50) Toluene-d8	10.565	98	360164	51.213	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.420%
62) 4-Bromofluorobenzene	12.847	95	107423	42.831	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	85.660%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	114	0.405	ug/l #	73
16) Acetone	4.424	43	24290	40.011	ug/l	98
18) Methyl Acetate	5.036	43	2304	1.534	ug/l #	70
20) Methylene Chloride	5.265	84	10364	5.836	ug/l	95
25) 2-Butanone	7.494	43	2927	3.341	ug/l	98
30) Chloroform	7.959	83	1011	0.315	ug/l	96
31) Cyclohexane	8.224	56	3126	1.263	ug/l #	42
36) 1,1-Dichloropropene	8.224	75	11394	4.466	ug/l #	46
37) Ethyl Acetate	7.565	43	2304	1.070	ug/l #	73
38) Carbon Tetrachloride	8.218	117	15729	4.688	ug/l #	19
42) 1,2-Dichloroethane	8.677	62	633	0.227	ug/l #	74
43) Isopropyl Acetate	8.688	43	112926	24.209	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1124	0.617	ug/l #	44
48) Methyl methacrylate	9.741	41	77740	50.505	ug/l #	33
51) 4-Methyl-2-Pentanone	10.441	43	4002	1.945	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	34922	11.382	ug/l #	66
56) Ethyl methacrylate	10.988	69	1690	0.901	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4924	1.545	ug/l #	42
59) 2-Hexanone	11.200	43	45992	30.689	ug/l #	54
71) Bromoform	12.841	173	810	0.422	ug/l #	1
74) N-amyl acetate	12.465	43	504	0.217	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	53020	23.337	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53020	61.699	ug/l #	16

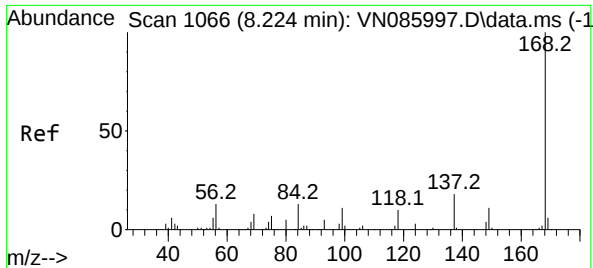
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

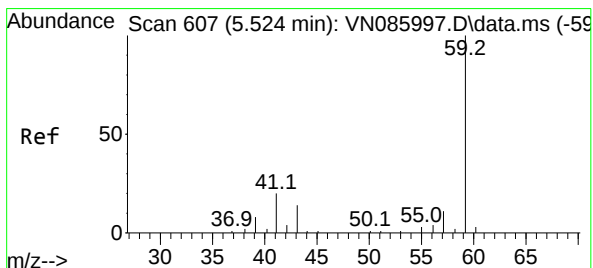
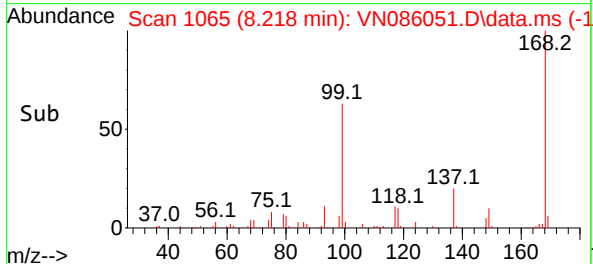
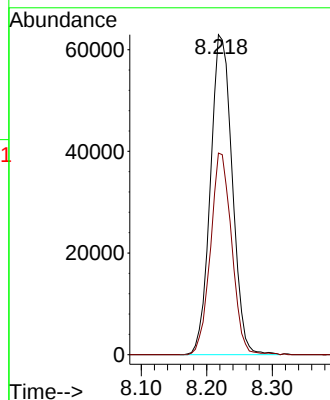
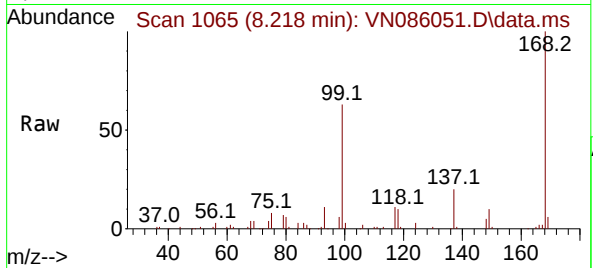




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

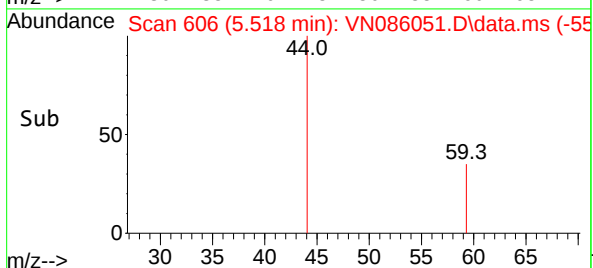
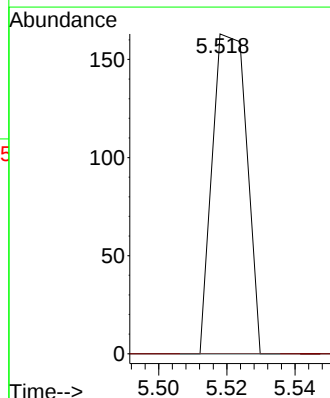
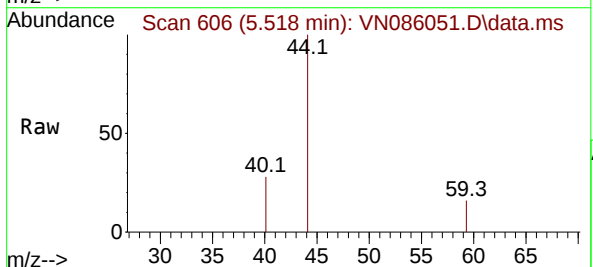
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

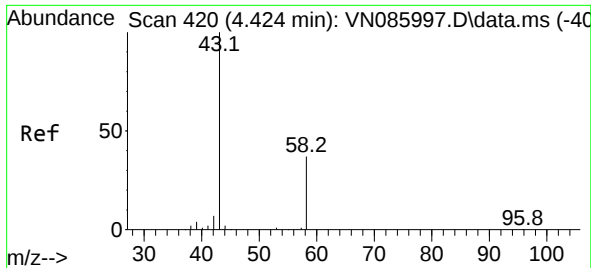
Tgt Ion:168 Resp: 145114
Ion Ratio Lower Upper
168 100
99 63.0 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.405 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 59 Resp: 114
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

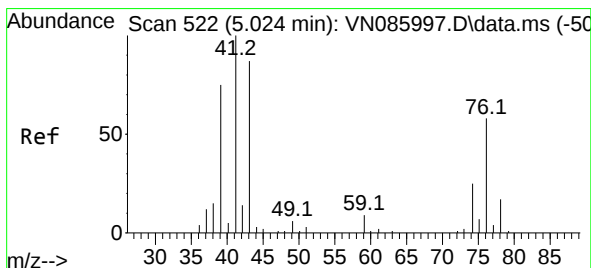
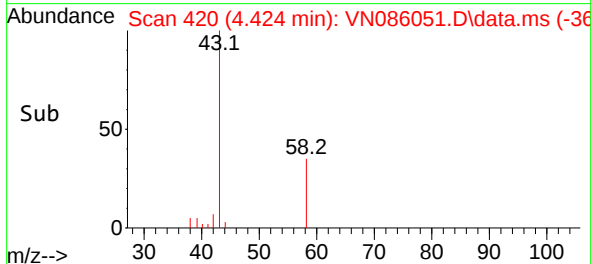
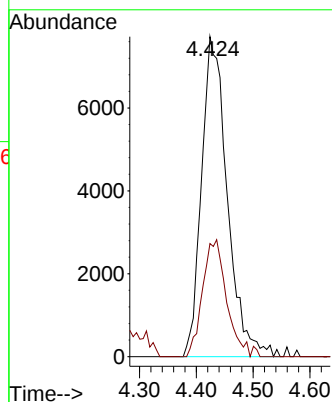
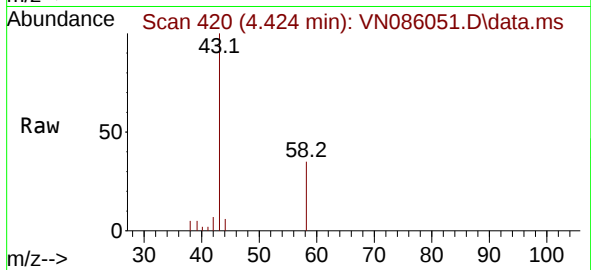




#16
Acetone
Concen: 40.011 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

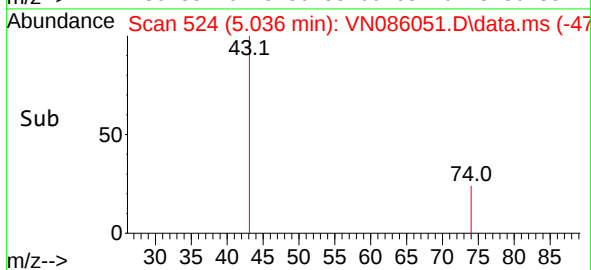
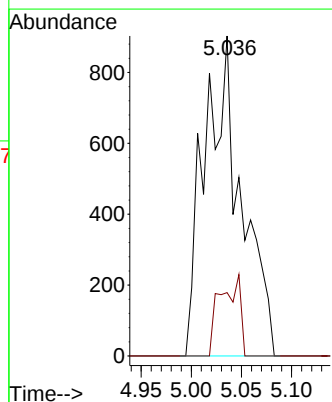
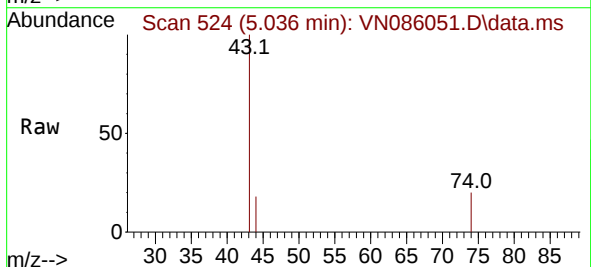
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

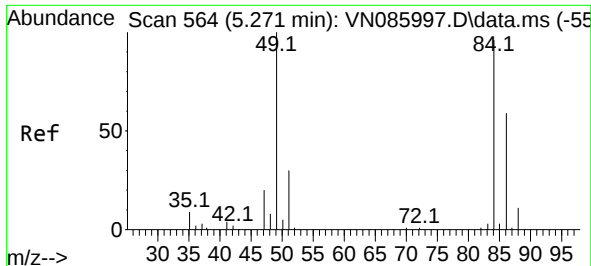
Tgt Ion: 43 Resp: 24290
Ion Ratio Lower Upper
43 100
58 35.3 29.4 44.2



#18
Methyl Acetate
Concen: 1.534 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

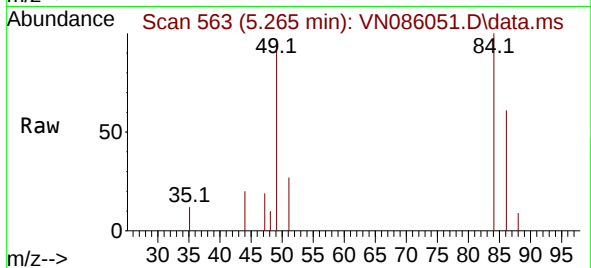
Tgt Ion: 43 Resp: 2304
Ion Ratio Lower Upper
43 100
74 13.9 23.9 35.9#



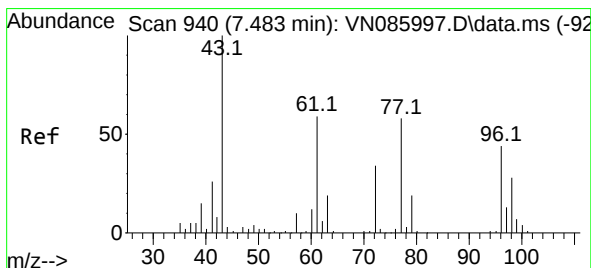
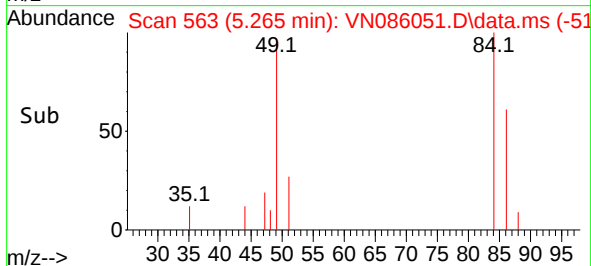
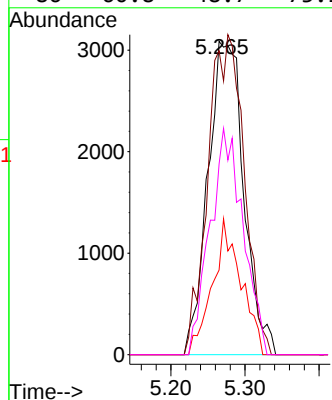


#20
Methylene Chloride
Concen: 5.836 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

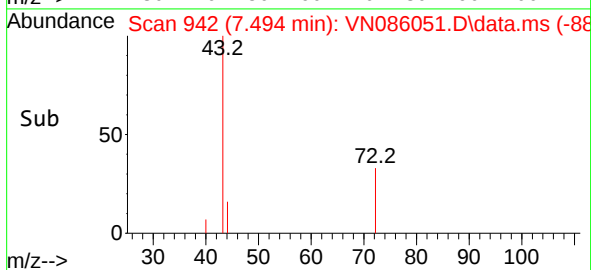
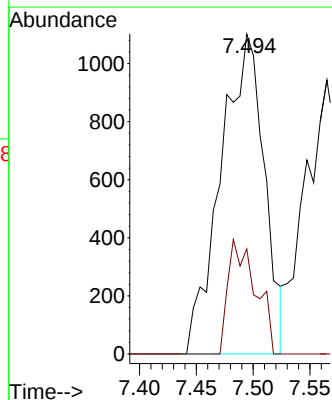
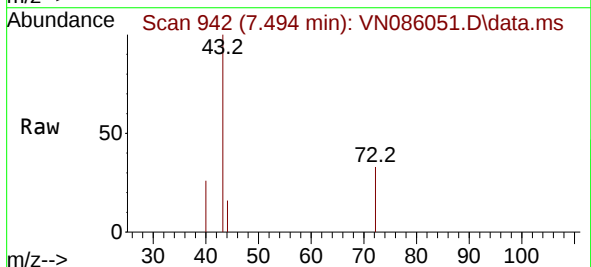


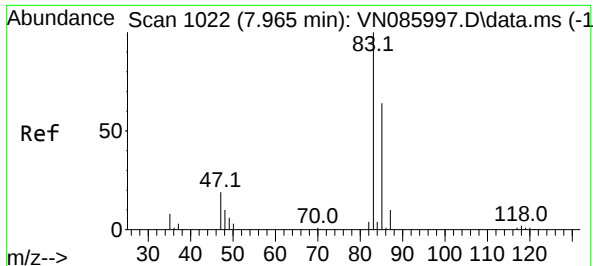
Tgt Ion: 84	Resp: 10364
Ion Ratio	Lower Upper
84 100	
49 97.0	83.3 124.9
51 27.0	24.8 37.2
86 60.8	48.7 73.1



#25
2-Butanone
Concen: 3.341 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 43	Resp: 2927		
Ion Ratio	Lower	Upper	
43 100			
72 32.8	27.4	41.0	





#30

Chloroform

Concen: 0.315 ug/l

RT: 7.959 min Scan# 1066

Delta R.T. -0.006 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

Instrument :

MSVOA_N

ClientSampleId :

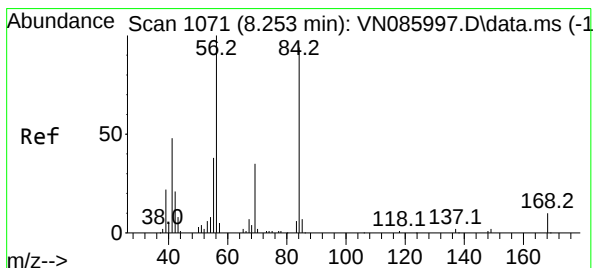
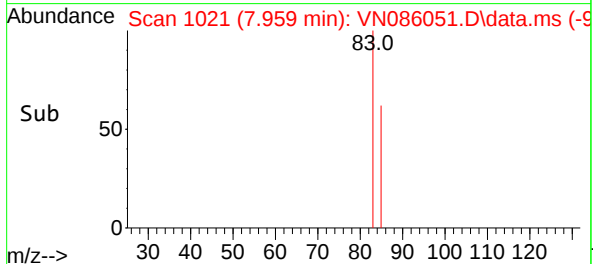
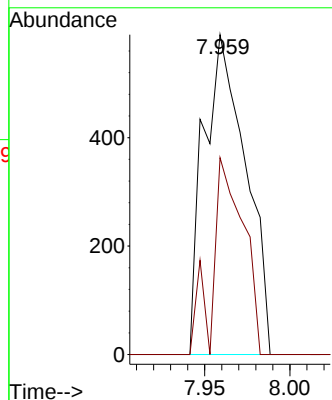
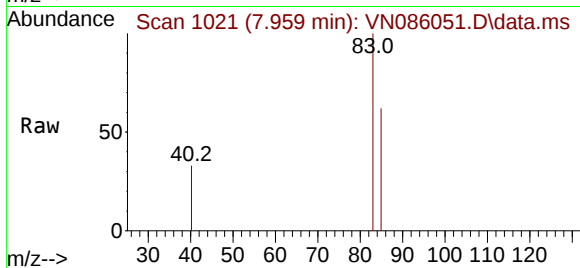
PB167234ZHE#11

Tgt Ion: 83 Resp: 1011

Ion Ratio Lower Upper

83 100

85 61.5 51.5 77.3



#31

Cyclohexane

Concen: 1.263 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

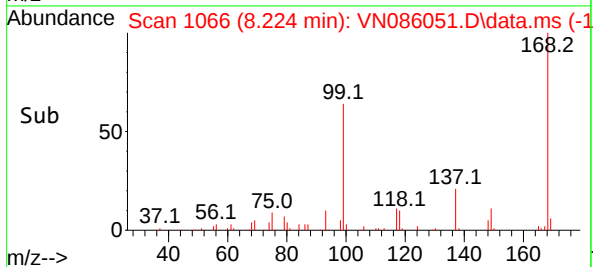
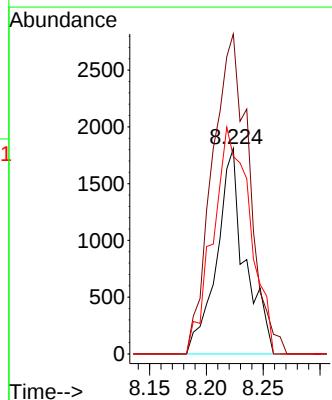
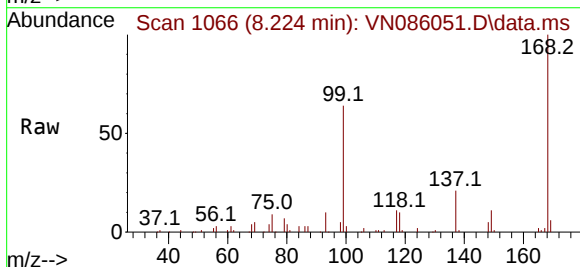
Tgt Ion: 56 Resp: 3126

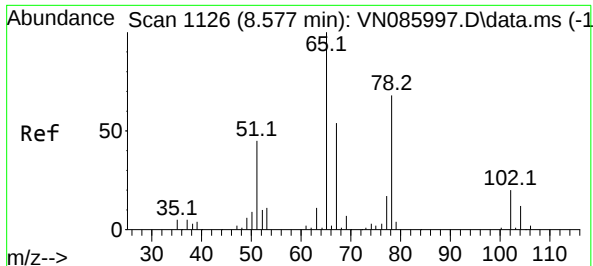
Ion Ratio Lower Upper

56 100

69 155.7 28.0 42.0#

84 96.1 75.0 112.6





#33

1,2-Dichloroethane-d4

Concen: 58.164 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

Instrument :

MSVOA_N

ClientSampleId :

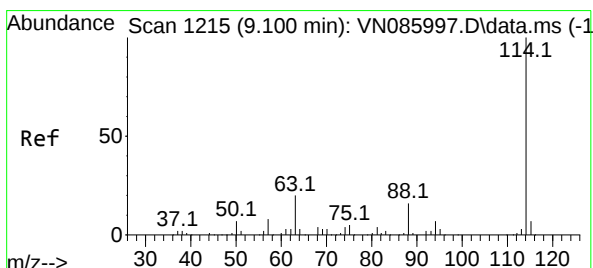
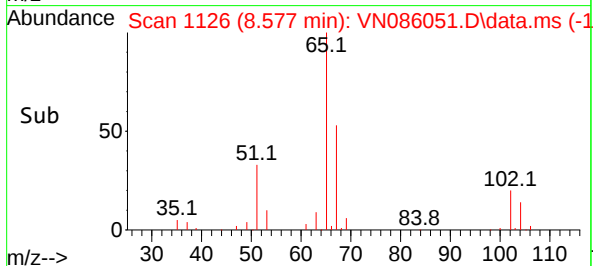
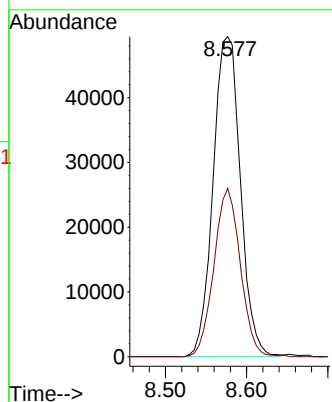
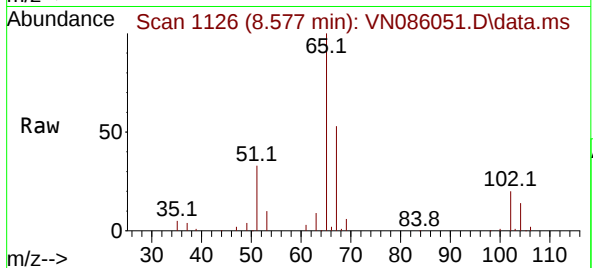
PB167234ZHE#11

Tgt Ion: 65 Resp: 115577

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

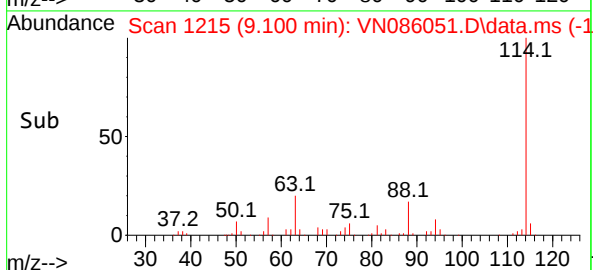
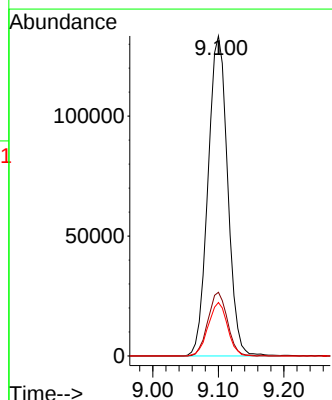
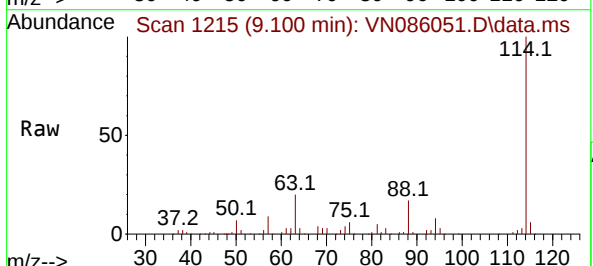
Tgt Ion: 114 Resp: 277620

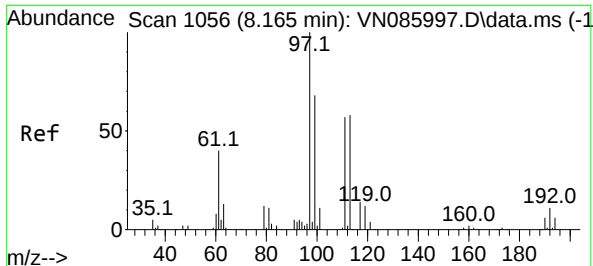
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.914 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

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MSVOA_N

ClientSampleId :

PB167234ZHE#11

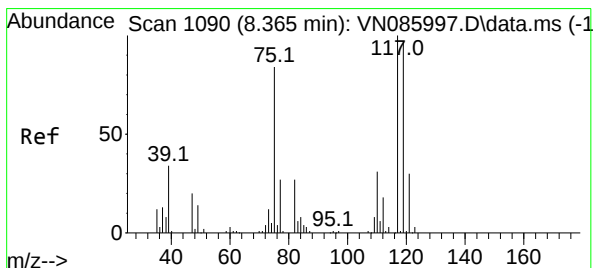
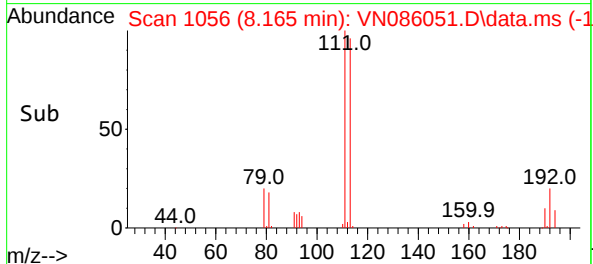
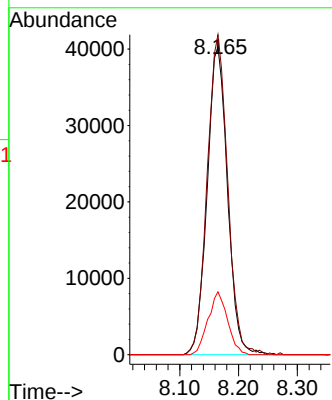
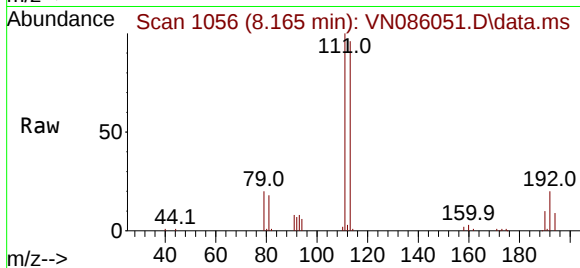
Tgt Ion:113 Resp: 96721

Ion Ratio Lower Upper

113 100

111 104.4 81.8 122.8

192 19.6 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.466 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

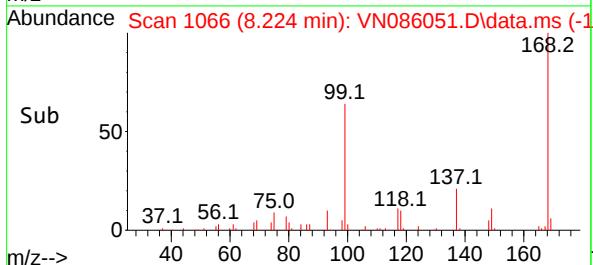
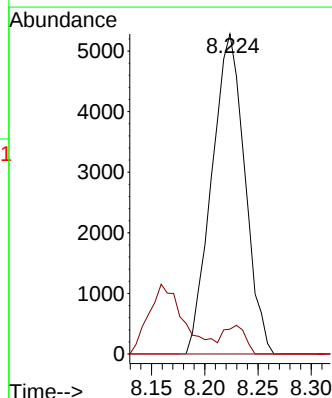
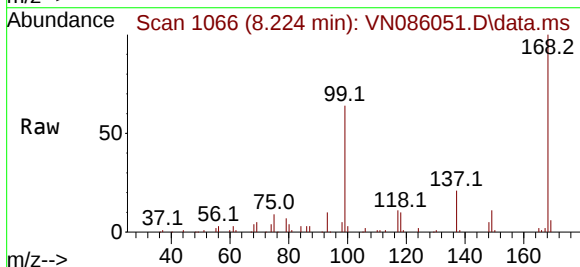
Tgt Ion: 75 Resp: 11394

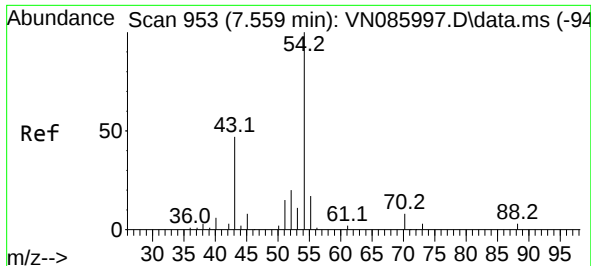
Ion Ratio Lower Upper

75 100

110 5.7 17.8 53.3#

77 0.0 25.0 37.4#

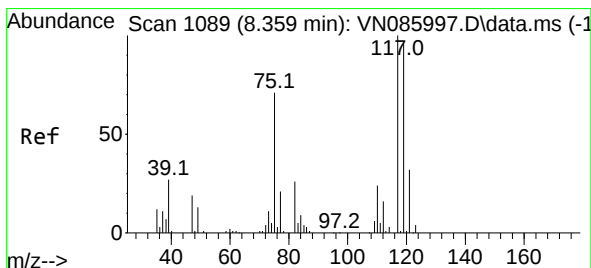
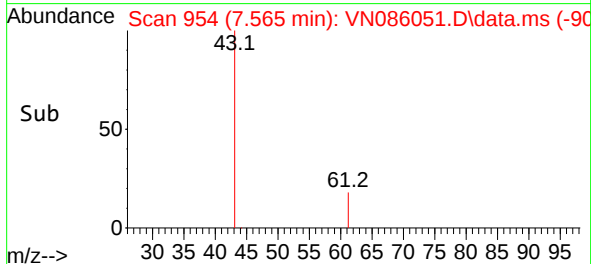
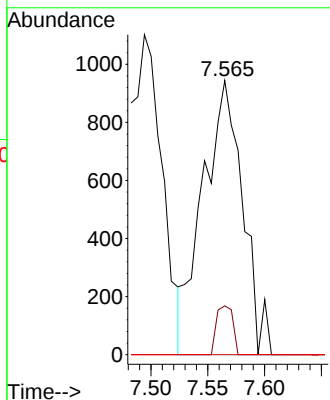
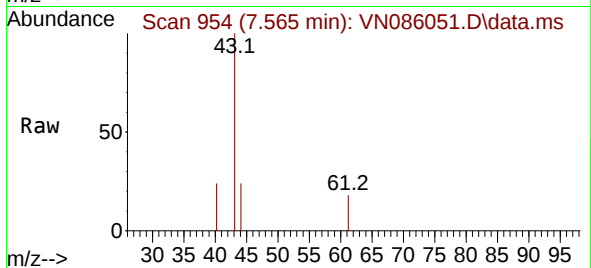




#37
Ethyl Acetate
Concen: 1.070 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

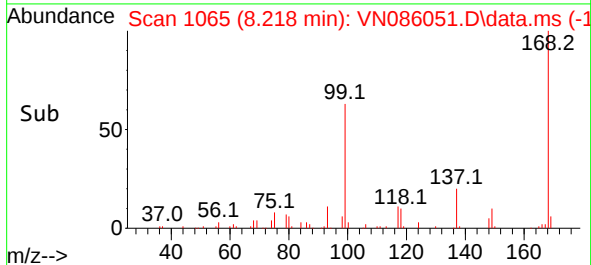
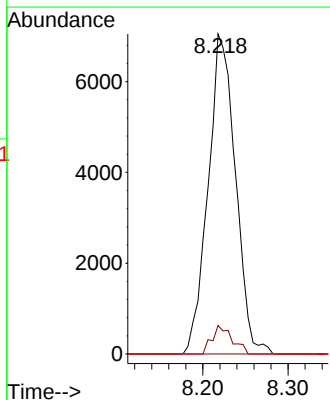
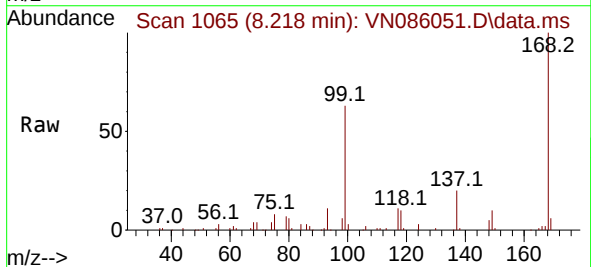
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

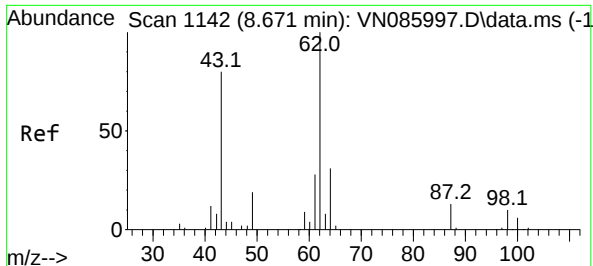
Tgt Ion:	43	Resp:	2304
Ion	Ratio	Lower	Upper
43	100		
61	7.3	13.0	19.4#
70	0.0	11.0	16.6#



#38
Carbon Tetrachloride
Concen: 4.688 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion:	117	Resp:	15729
Ion	Ratio	Lower	Upper
117	100		
119	8.9	77.0	115.4#
121	0.0	25.6	38.4#

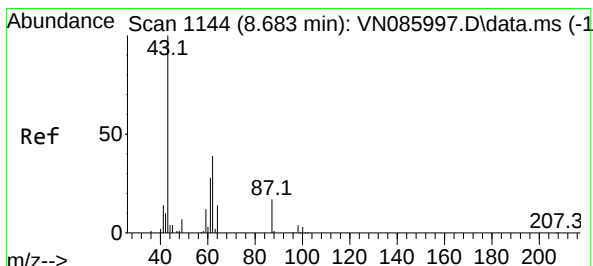
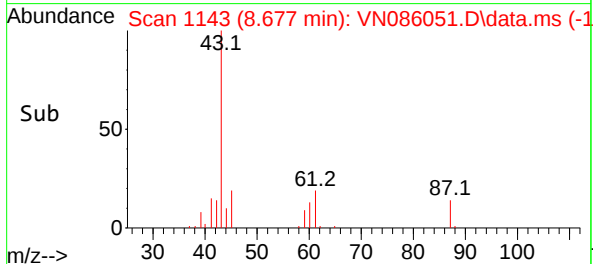
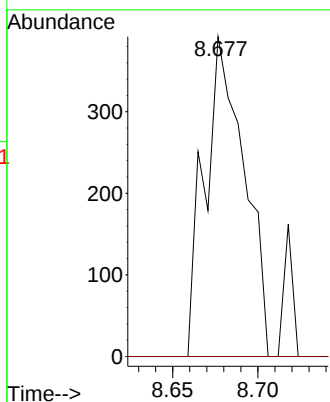
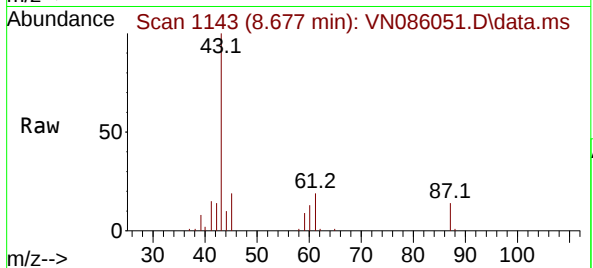




#42
1,2-Dichloroethane
Concen: 0.227 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

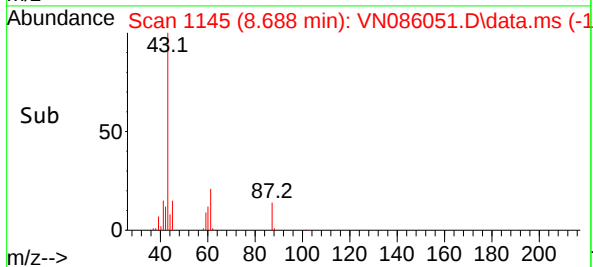
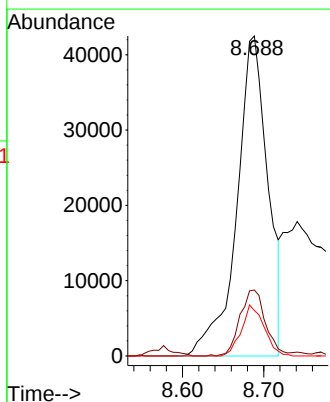
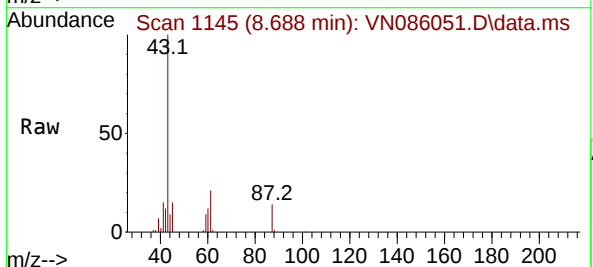
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

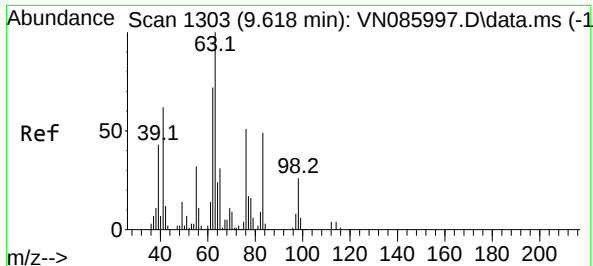
Tgt Ion: 62 Resp: 633
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6



#43
Isopropyl Acetate
Concen: 24.209 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 43 Resp: 112926
Ion Ratio Lower Upper
43 100
61 17.1 25.0 37.6#
87 11.7 13.0 19.4#

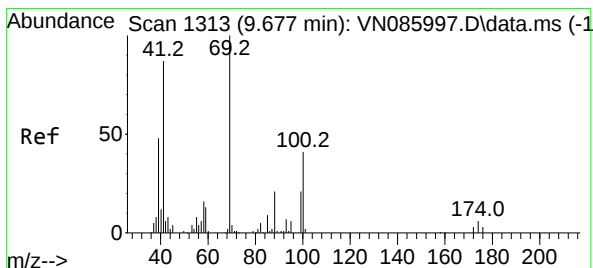
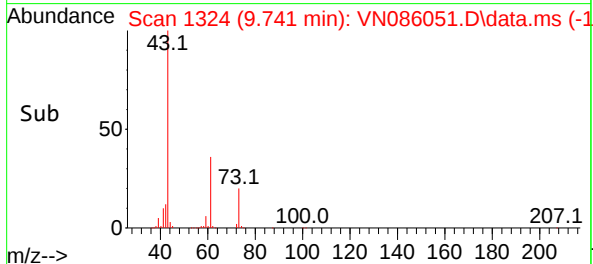
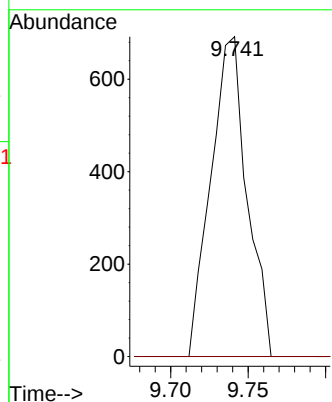
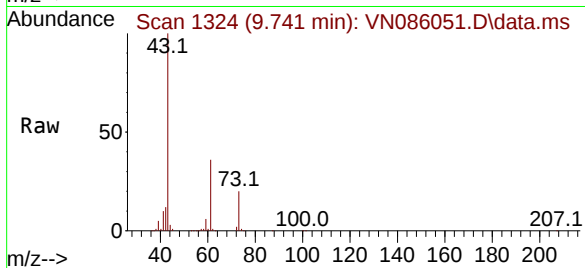




#45
1,2-Dichloropropane
Concen: 0.617 ug/l
RT: 9.741 min Scan# 1124
Delta R.T. 0.123 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

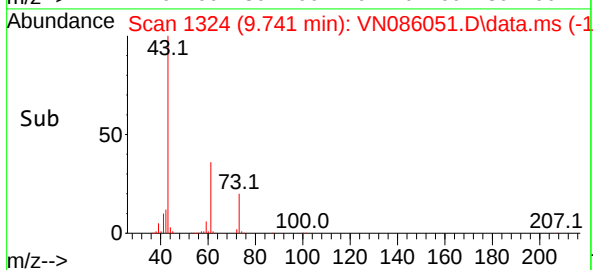
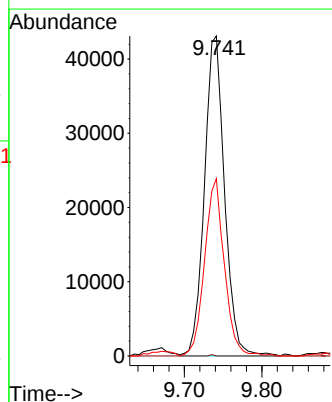
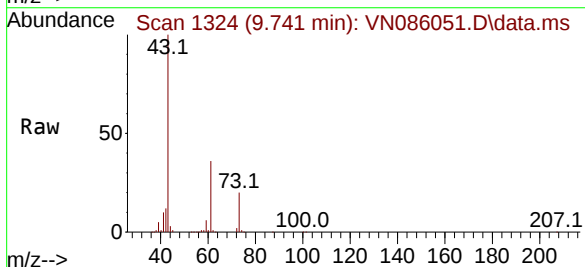
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

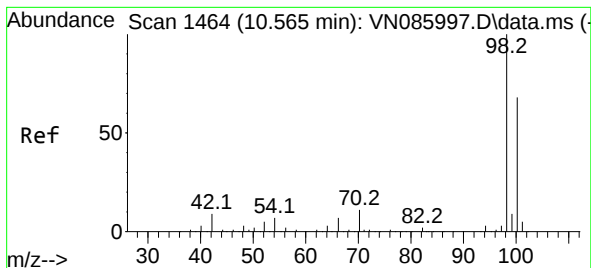
Tgt Ion: 63 Resp: 1124
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#



#48
Methyl methacrylate
Concen: 50.505 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 41 Resp: 77740
Ion Ratio Lower Upper
41 100
69 0.1 83.1 124.7#
39 54.4 45.6 68.4





#50

Toluene-d8

Concen: 51.213 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

Instrument :

MSVOA_N

ClientSampleId :

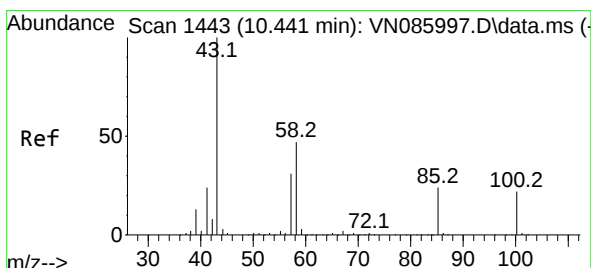
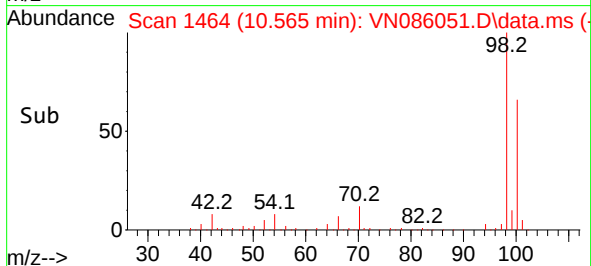
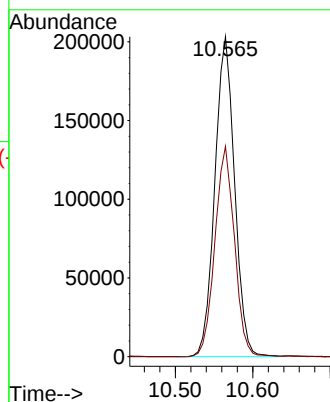
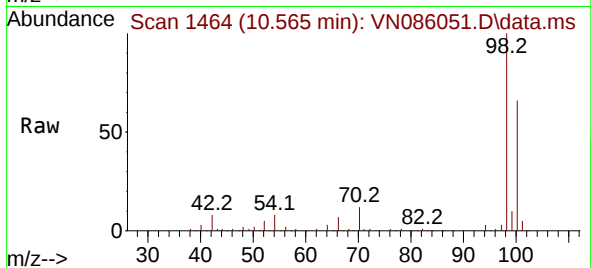
PB167234ZHE#11

Tgt Ion: 98 Resp: 360164

Ion Ratio Lower Upper

98 100

100 65.2 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 1.945 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086051.D

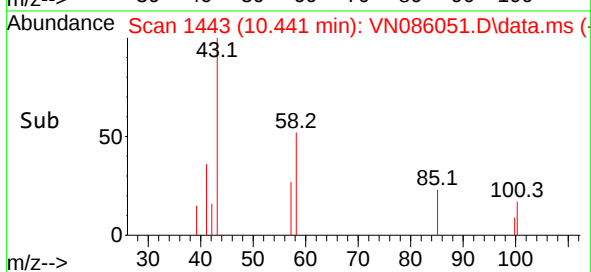
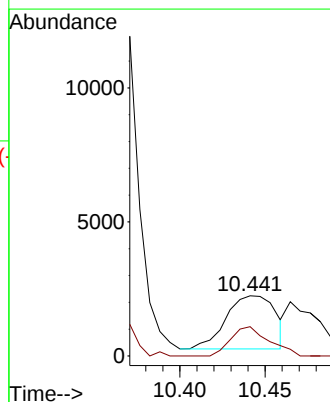
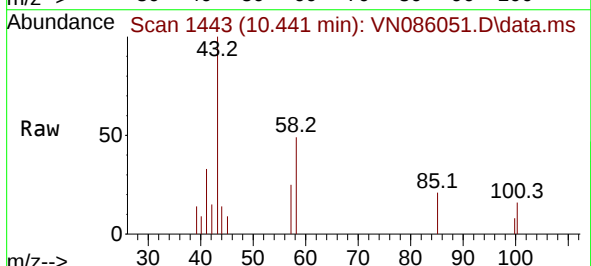
Acq: 21 Mar 2025 19:42

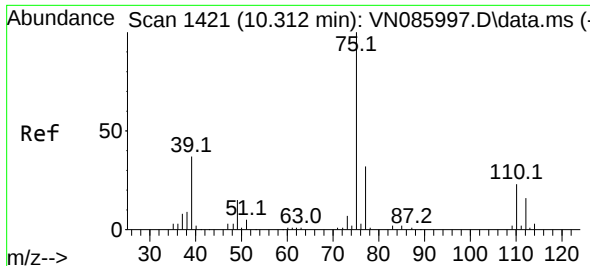
Tgt Ion: 43 Resp: 4002

Ion Ratio Lower Upper

43 100

58 42.7 37.4 56.0

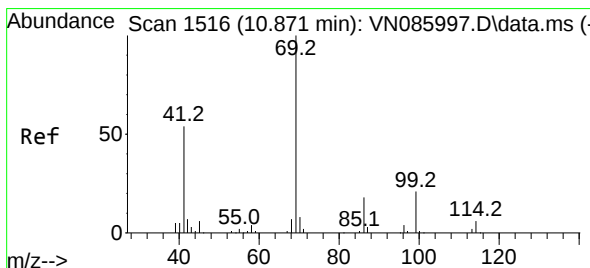
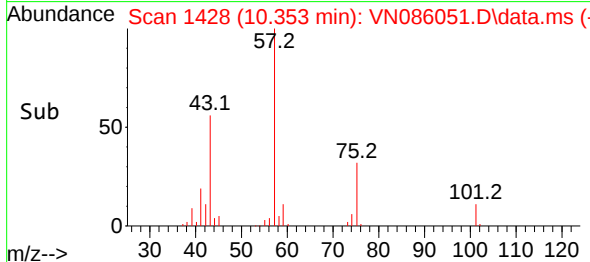
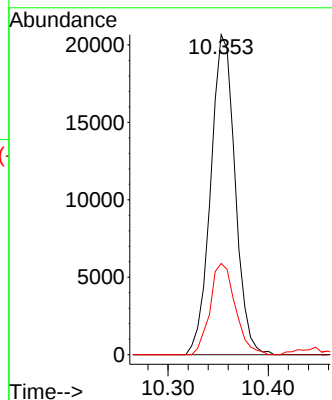
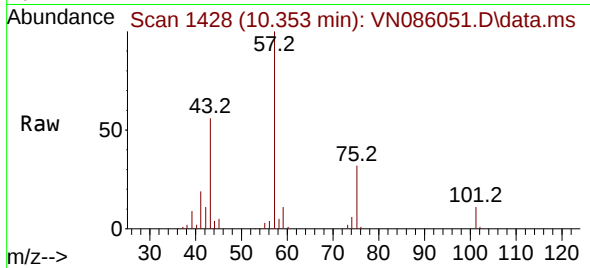




#54
 cis-1,3-Dichloropropene
 Concen: 11.382 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086051.D
 Acq: 21 Mar 2025 19:42

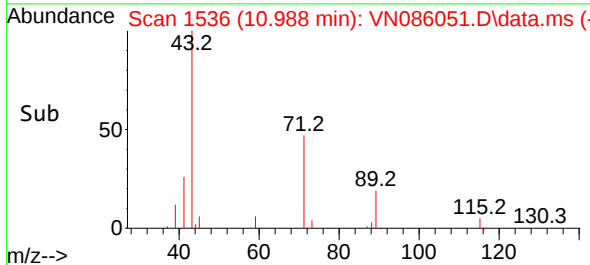
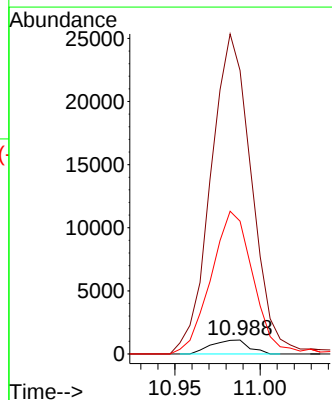
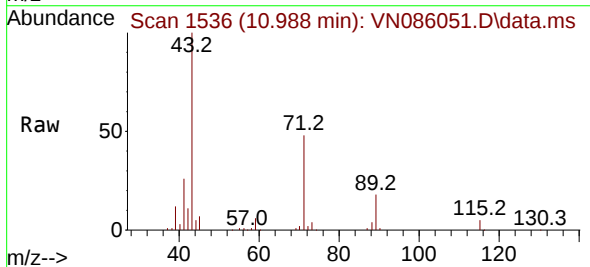
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#11

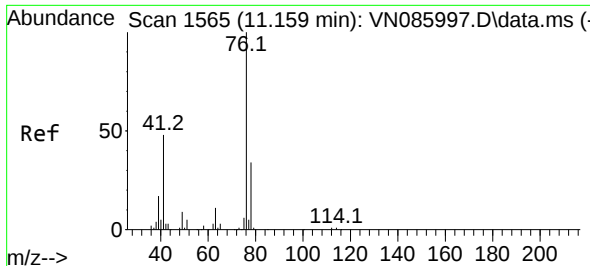
Tgt Ion: 75 Resp: 34922
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 28.5 29.6 44.4#



#56
 Ethyl methacrylate
 Concen: 0.901 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.117 min
 Lab File: VN086051.D
 Acq: 21 Mar 2025 19:42

Tgt Ion: 69 Resp: 1690
 Ion Ratio Lower Upper
 69 100
 41 2510.1 41.6 62.4#
 39 1156.2 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.545 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

Instrument :

MSVOA_N

ClientSampleId :

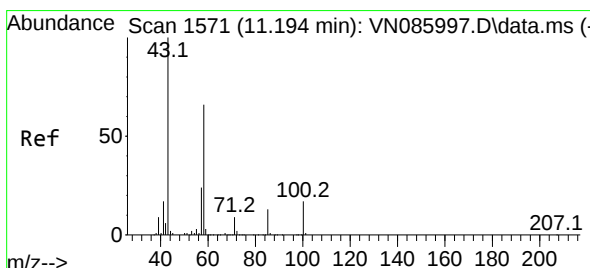
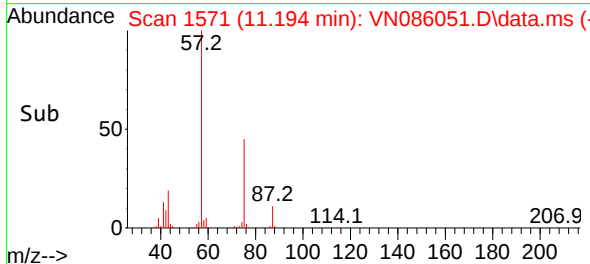
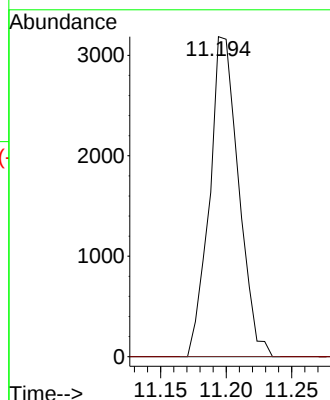
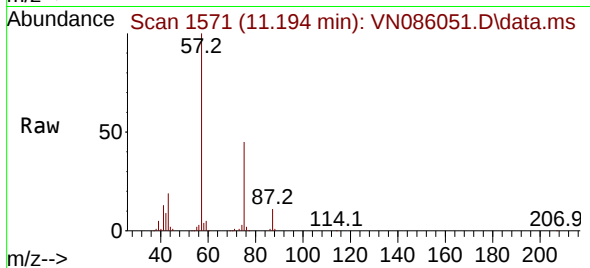
PB167234ZHE#11

Tgt Ion: 76 Resp: 4924

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 30.689 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086051.D

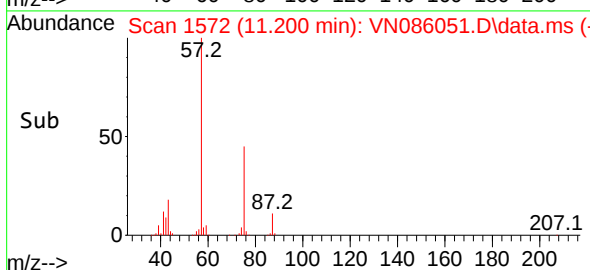
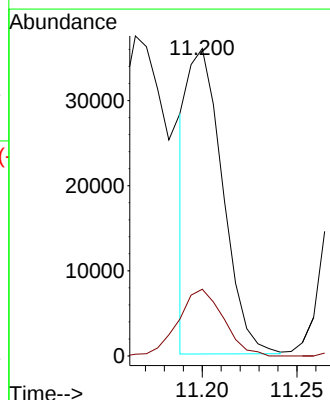
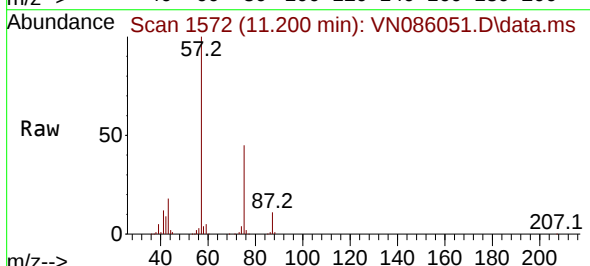
Acq: 21 Mar 2025 19:42

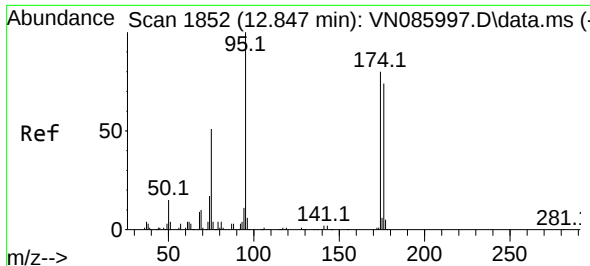
Tgt Ion: 43 Resp: 45992

Ion Ratio Lower Upper

43 100

58 28.4 32.4 97.2#

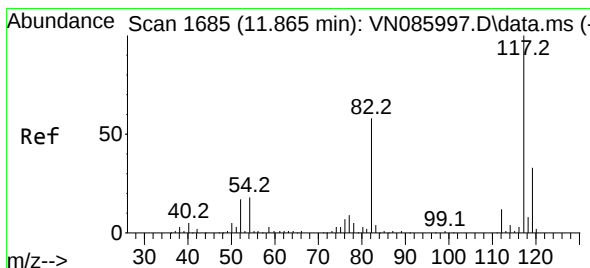
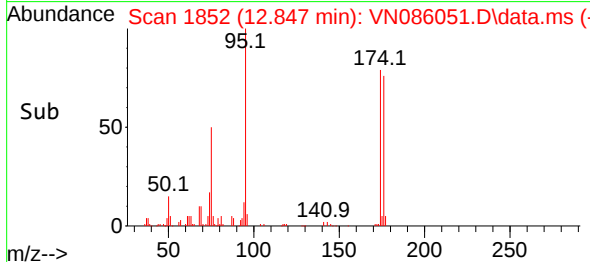
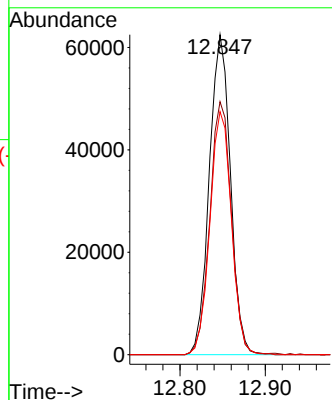
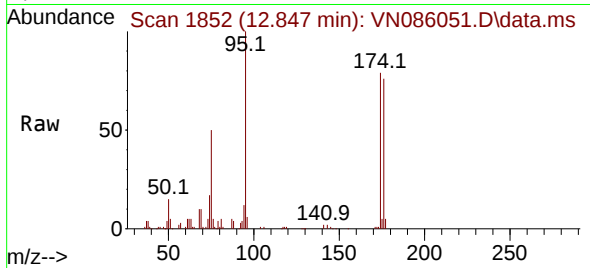




#62
4-Bromofluorobenzene
Concen: 42.831 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

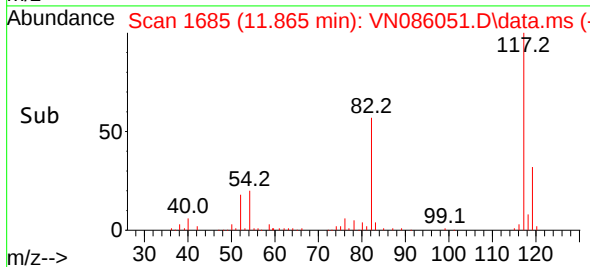
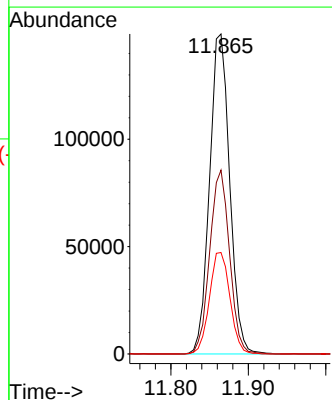
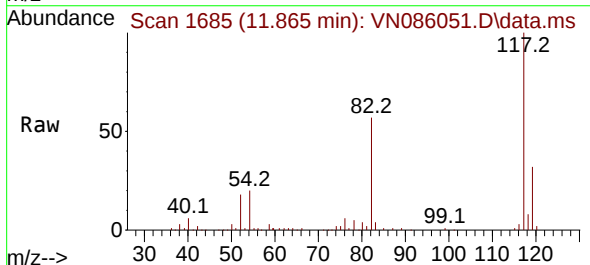
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

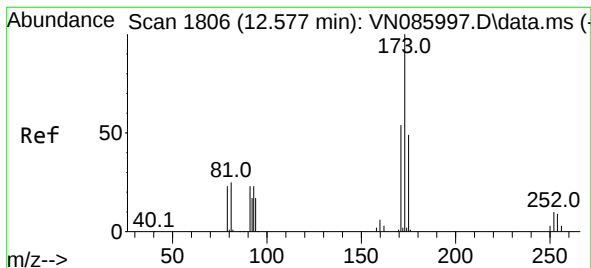
Tgt Ion: 95 Resp: 107423
Ion Ratio Lower Upper
95 100
174 80.8 0.0 156.8
176 77.4 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 117 Resp: 269609
Ion Ratio Lower Upper
117 100
82 57.5 46.7 70.1
119 31.7 26.5 39.7





#71

Bromoform

Concen: 0.422 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086051.D

Acq: 21 Mar 2025 19:42

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#11

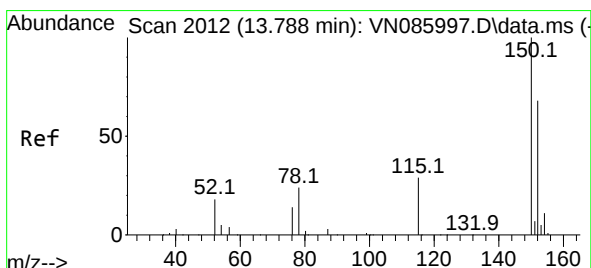
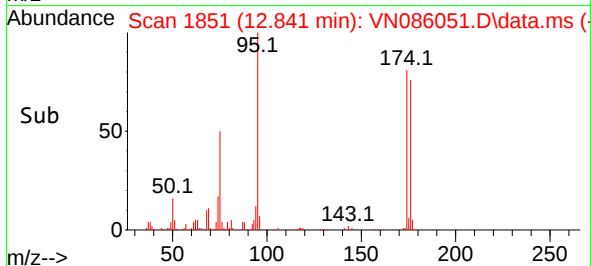
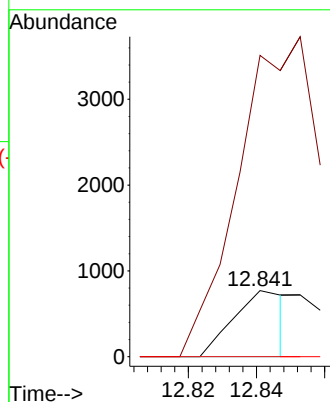
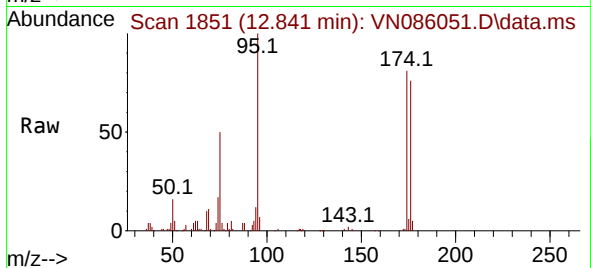
Tgt Ion:173 Resp: 810

Ion Ratio Lower Upper

173 100

175 462.5 24.3 73.0#

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: VN086051.D

Acq: 21 Mar 2025 19:42

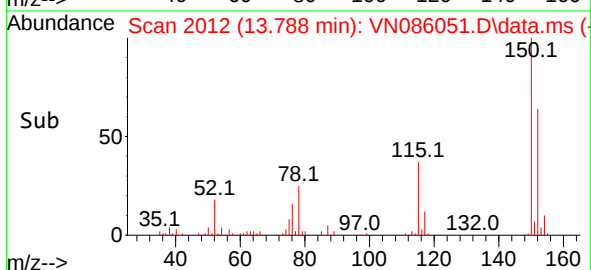
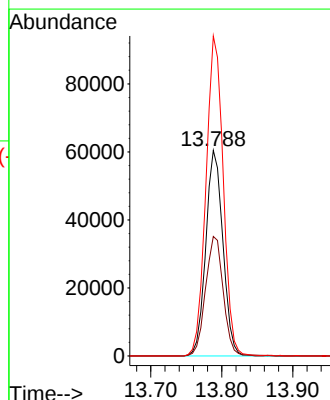
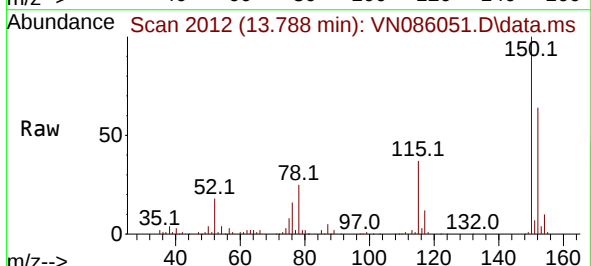
Tgt Ion:152 Resp: 101479

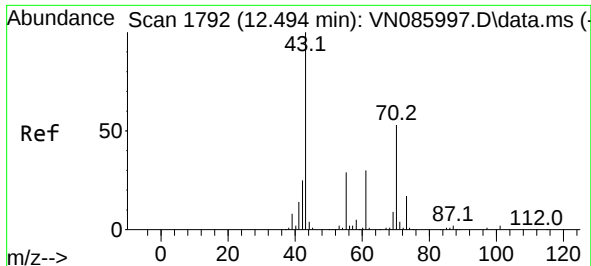
Ion Ratio Lower Upper

152 100

115 59.9 31.1 93.2

150 156.4 0.0 359.6

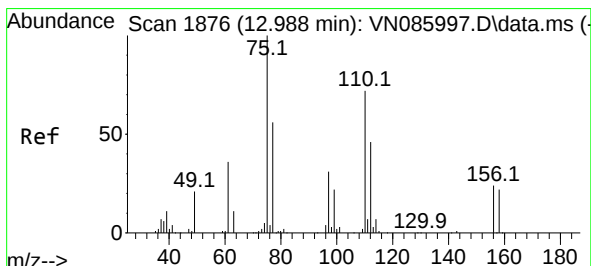
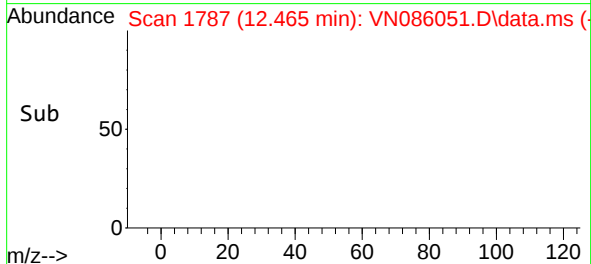
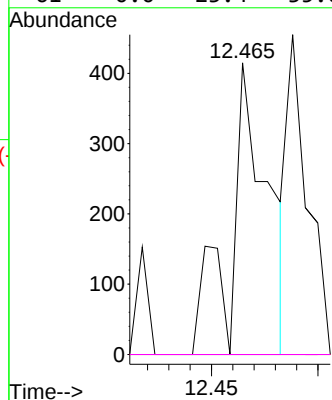
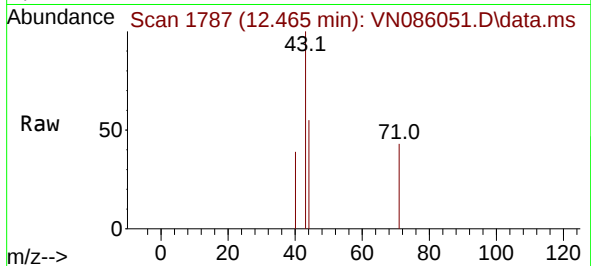




#74
N-amy1 acetate
Concen: 0.217 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

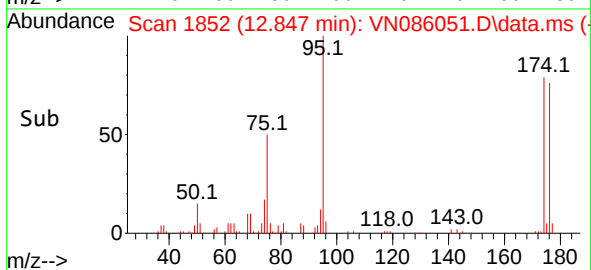
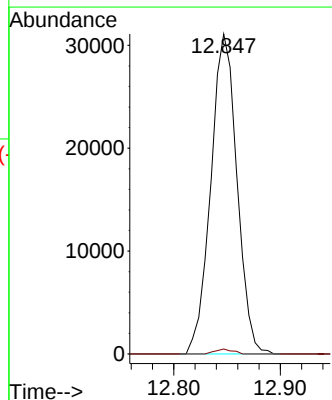
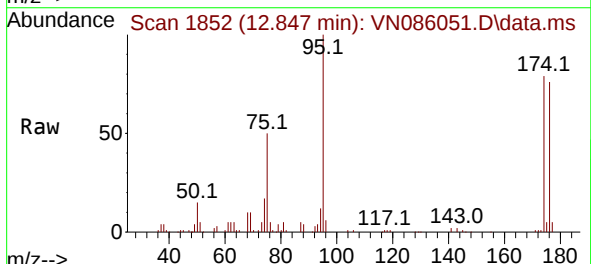
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#11

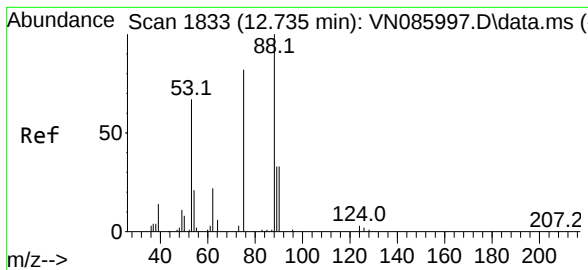
Tgt Ion: 43	Resp:	504
Ion	Ratio	Lower Upper
43	100	
70	0.0	43.0 64.4#
55	0.0	23.8 35.8#
61	0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 23.337 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086051.D
Acq: 21 Mar 2025 19:42

Tgt Ion: 75	Resp:	53020
Ion	Ratio	Lower Upper
75	100	
77	1.0	83.7 251.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.699 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086051.D
 Acq: 21 Mar 2025 19:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#11

Tgt Ion: 75 Resp: 53020
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.0 99.0#
 89 0.0 36.9 55.3#

