

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086050.D
 Acq On : 21 Mar 2025 19:18
 Operator : JC\MD
 Sample : PB167234ZHE#10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#10

Quant Time: Mar 21 23:03:33 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)

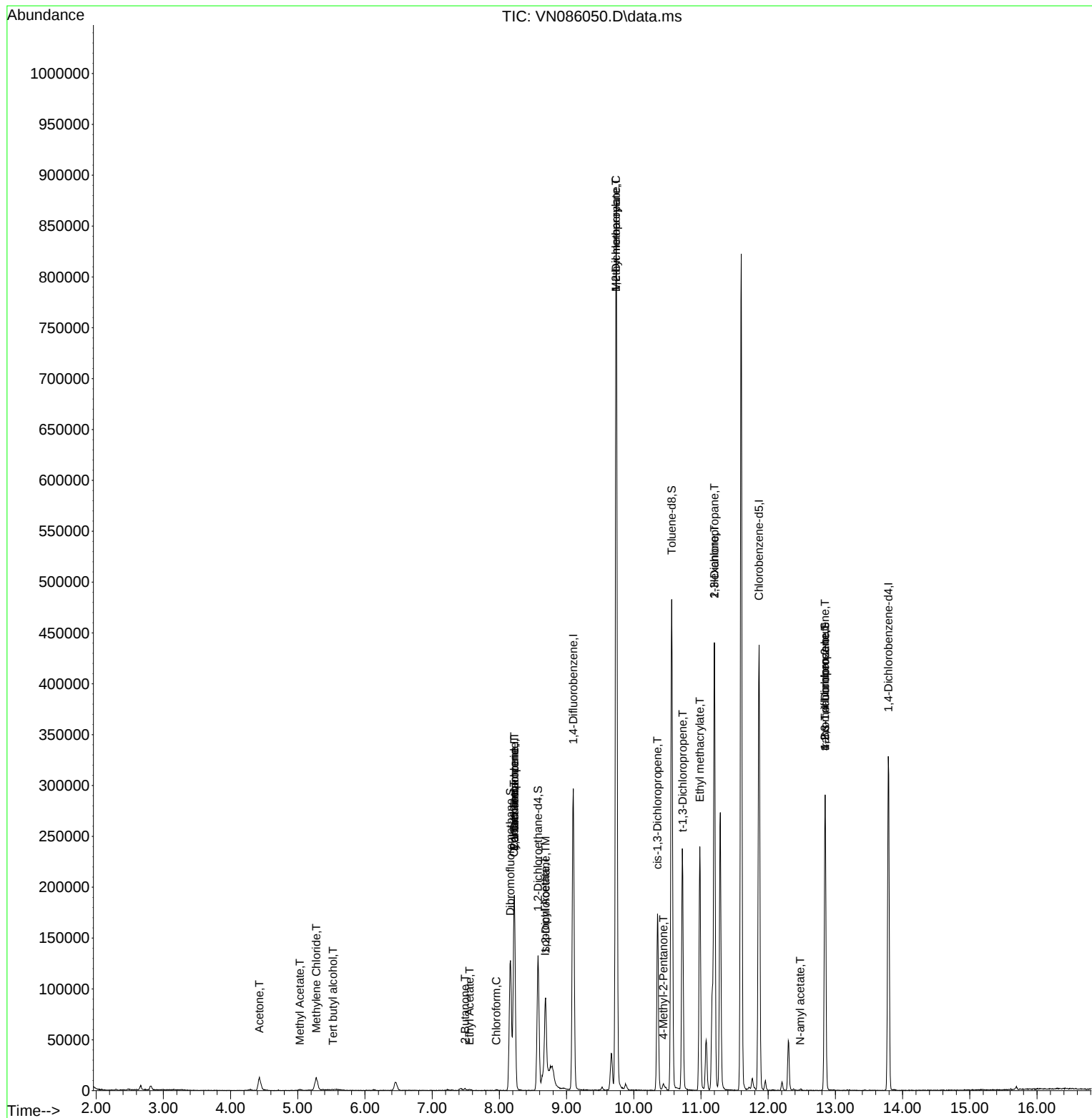
Internal Standards						
1) Pentafluorobenzene	8.224	168	135704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	260868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	257655	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	93569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109916	59.150	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.300%			
35) Dibromofluoromethane	8.165	113	92595	50.853	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%			
50) Toluene-d8	10.565	98	340992	51.600	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.200%			
62) 4-Bromofluorobenzene	12.847	95	101706	43.156	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 86.320%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.524	59	302	1.148	ug/l #	73
16) Acetone	4.430	43	22900	40.337	ug/l	96
18) Methyl Acetate	5.030	43	1929	1.373	ug/l #	62
20) Methylene Chloride	5.277	84	10189	6.135	ug/l	95
25) 2-Butanone	7.488	43	3045	3.717	ug/l #	81
30) Chloroform	7.953	83	652	0.217	ug/l #	82
31) Cyclohexane	8.218	56	2880	1.244	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	10955	4.569	ug/l #	51
37) Ethyl Acetate	7.559	43	2054	1.015	ug/l #	67
38) Carbon Tetrachloride	8.224	117	14840	4.708	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	773	0.295	ug/l #	74
43) Isopropyl Acetate	8.683	43	111737	25.493	ug/l #	79
45) 1,2-Dichloropropane	9.735	63	1260	0.736	ug/l #	44
48) Methyl methacrylate	9.735	41	77857	53.829	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	7009	3.626	ug/l #	65
53) t-1,3-Dichloropropene	10.729	75	716	0.262	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	31779	11.023	ug/l #	69
56) Ethyl methacrylate	10.982	69	1555	0.886	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4812	1.607	ug/l #	42
59) 2-Hexanone	11.200	43	45335	32.194	ug/l #	53
74) N-amyl acetate	12.476	43	850	0.398	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	50810	24.255	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50810	64.126	ug/l #	16

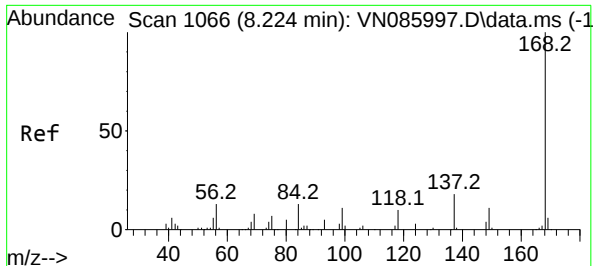
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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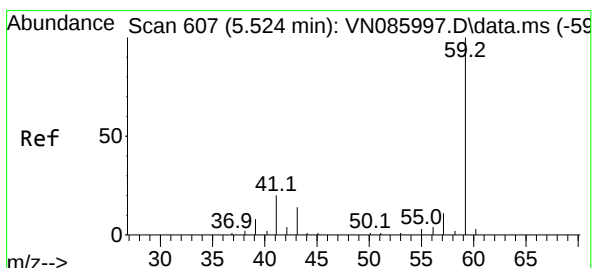
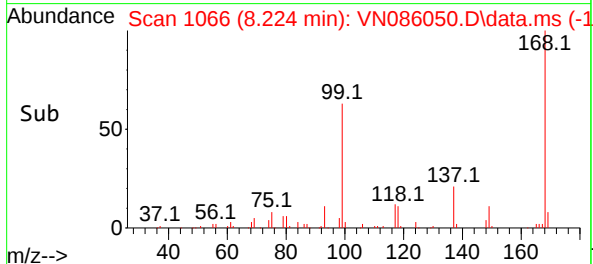
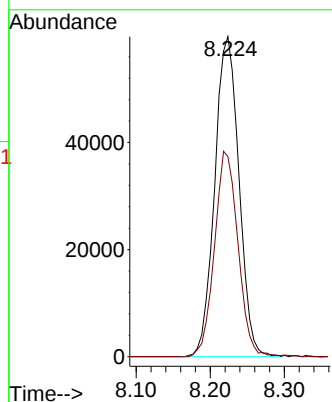
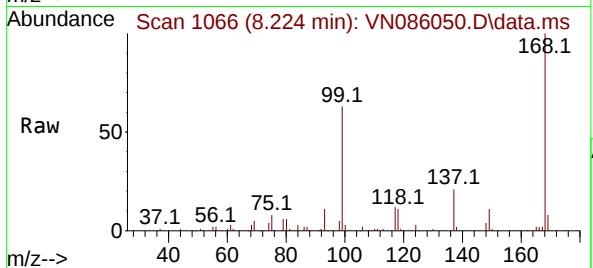




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

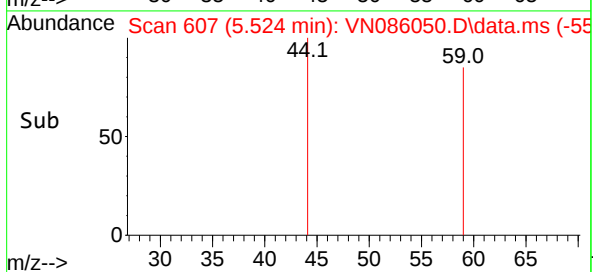
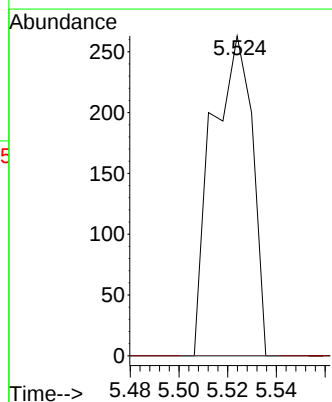
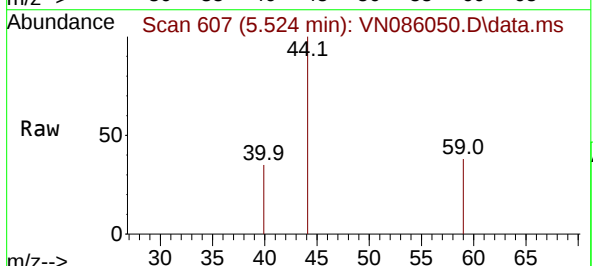
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

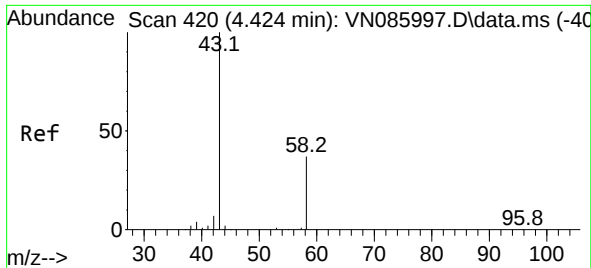
Tgt Ion:168 Resp: 135704
Ion Ratio Lower Upper
168 100
99 62.6 49.4 74.2



#11
Tert butyl alcohol
Concen: 1.148 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 59 Resp: 302
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 40.337 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

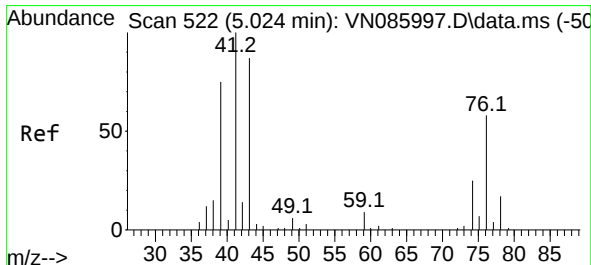
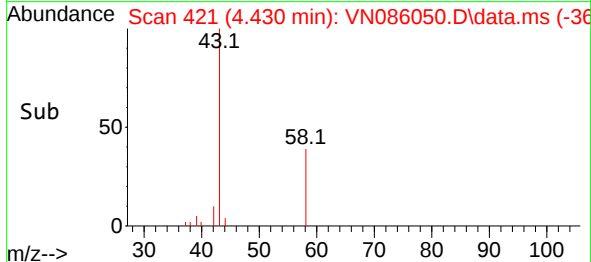
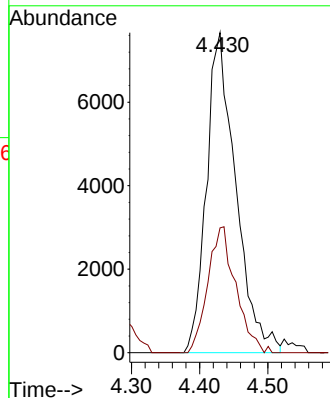
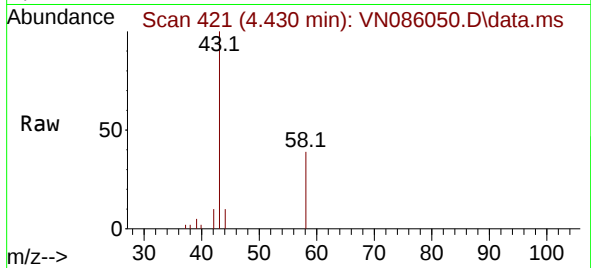
PB167234ZHE#10

Tgt Ion: 43 Resp: 22900

Ion Ratio Lower Upper

43 100

58 39.0 29.4 44.2



#18

Methyl Acetate

Concen: 1.373 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN086050.D

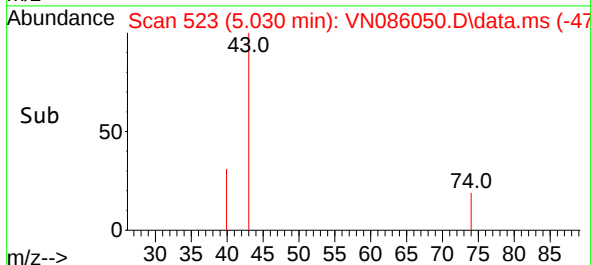
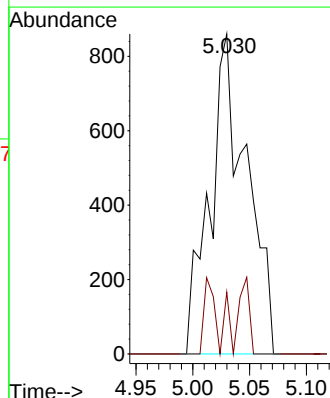
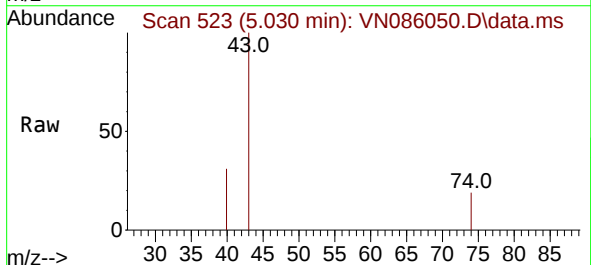
Acq: 21 Mar 2025 19:18

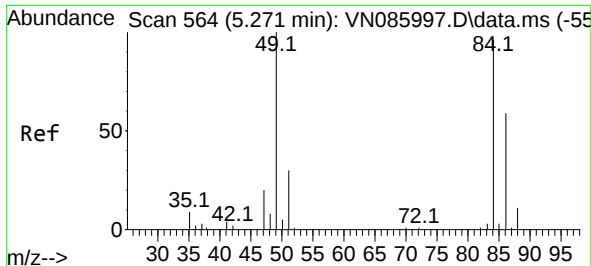
Tgt Ion: 43 Resp: 1929

Ion Ratio Lower Upper

43 100

74 9.6 23.9 35.9#

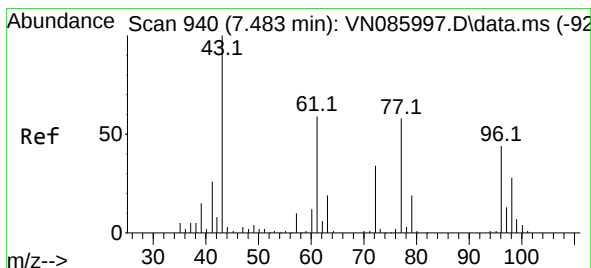
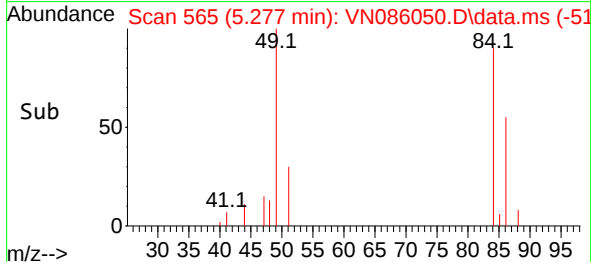
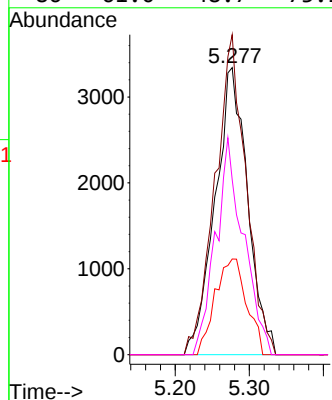
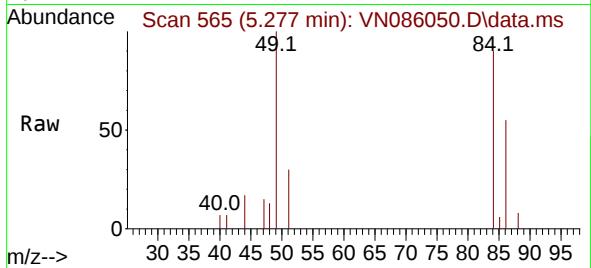




#20
Methylene Chloride
Concen: 6.135 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

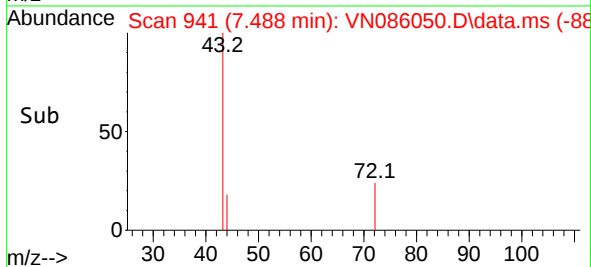
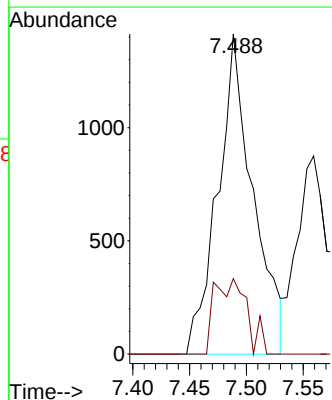
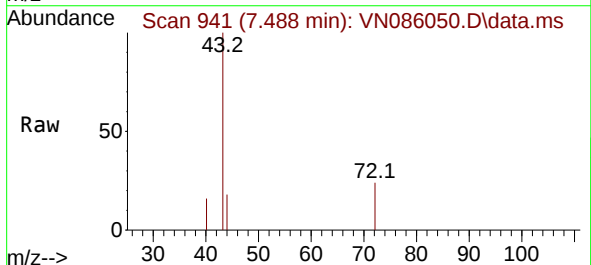
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

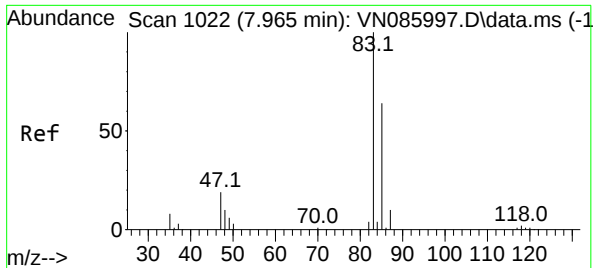
Tgt Ion: 84	Resp: 10189
Ion Ratio	Lower Upper
84 100	
49 111.5	83.3 124.9
51 33.3	24.8 37.2
86 61.0	48.7 73.1



#25
2-Butanone
Concen: 3.717 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 43	Resp: 3045		
Ion Ratio	Lower	Upper	
43 100			
72 23.6	27.4	41.0#	

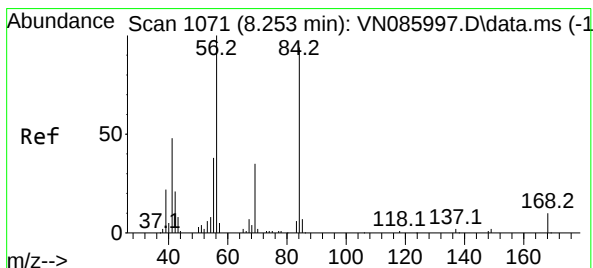
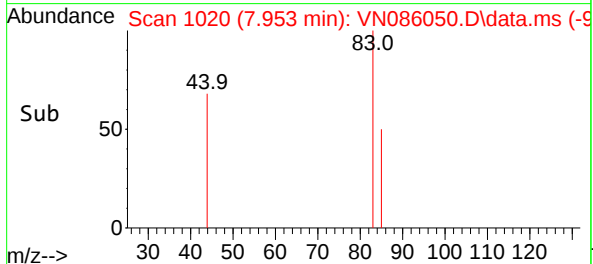
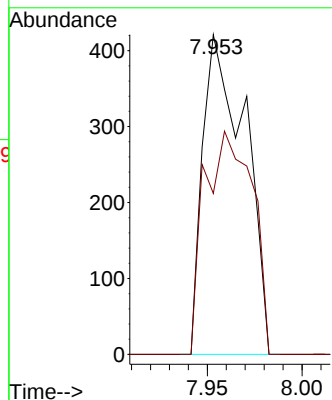
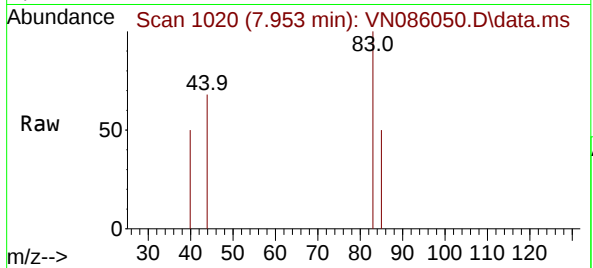




#30
Chloroform
Concen: 0.217 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.012 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

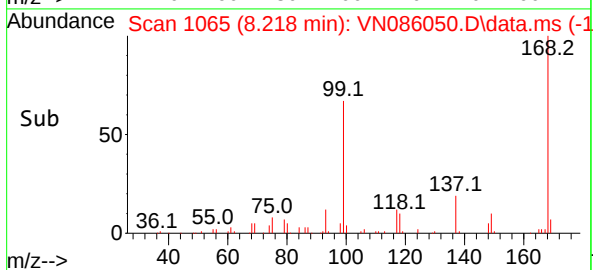
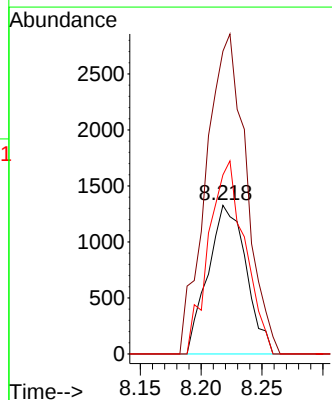
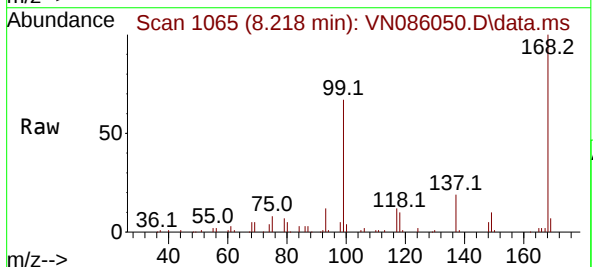
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

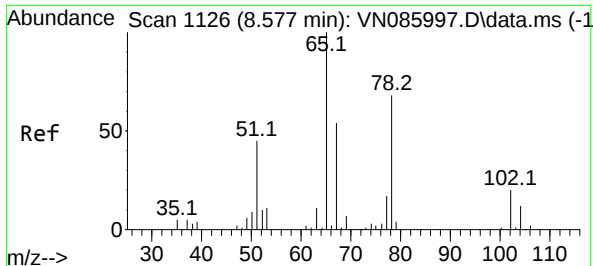
Tgt Ion: 83 Resp: 652
Ion Ratio Lower Upper
83 100
85 50.4 51.5 77.3#



#31
Cyclohexane
Concen: 1.244 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 56 Resp: 2880
Ion Ratio Lower Upper
56 100
69 203.7 28.0 42.0#
84 120.4 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 59.150 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

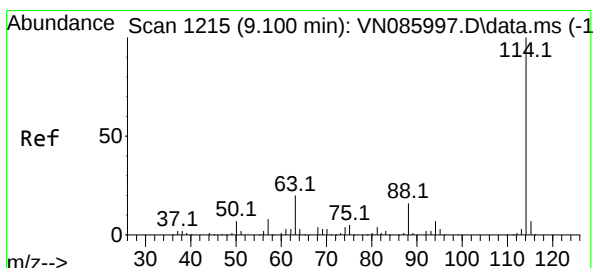
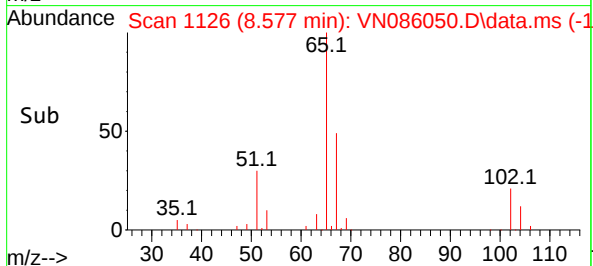
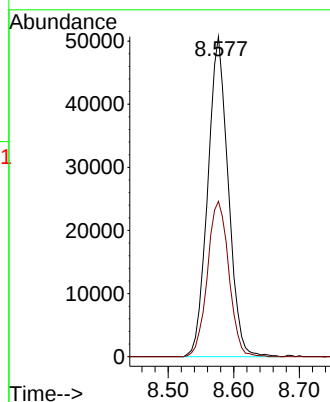
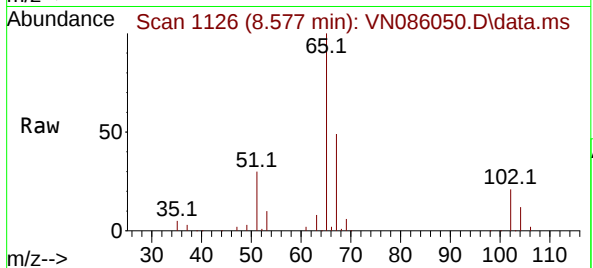
PB167234ZHE#10

Tgt Ion: 65 Resp: 109916

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: VN086050.D

Acq: 21 Mar 2025 19:18

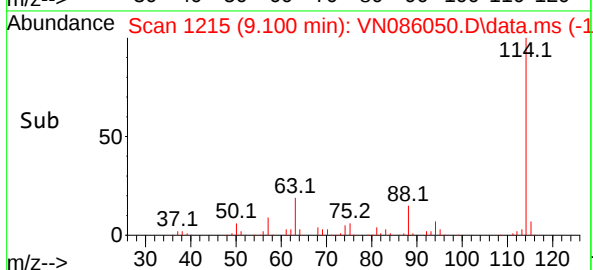
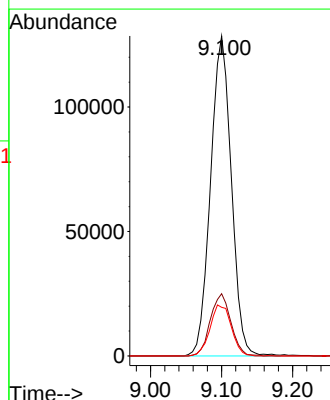
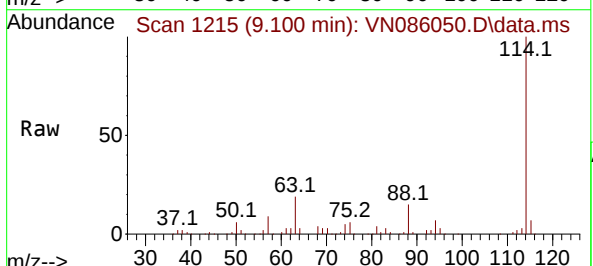
Tgt Ion: 114 Resp: 260868

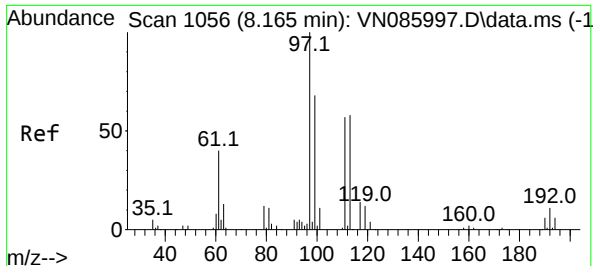
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.853 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

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MSVOA_N

ClientSampleId :

PB167234ZHE#10

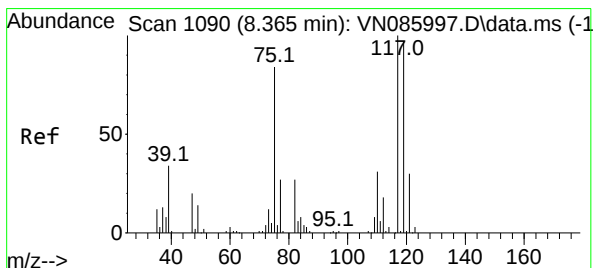
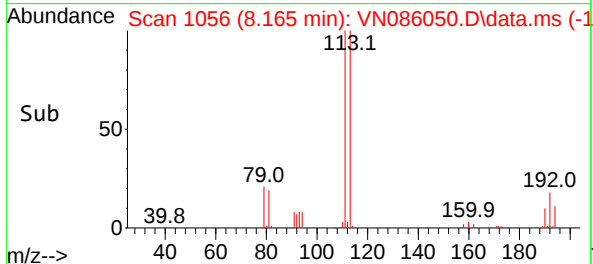
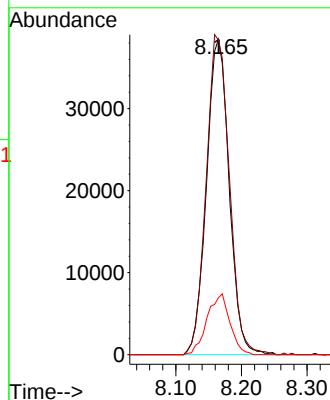
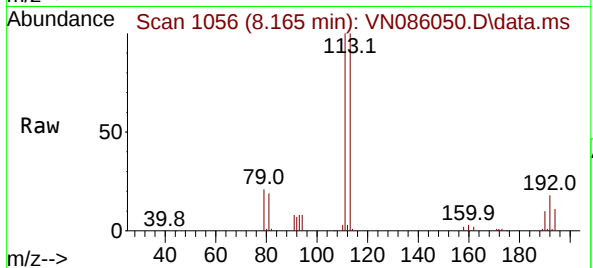
Tgt Ion:113 Resp: 92595

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

192 19.4 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.569 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

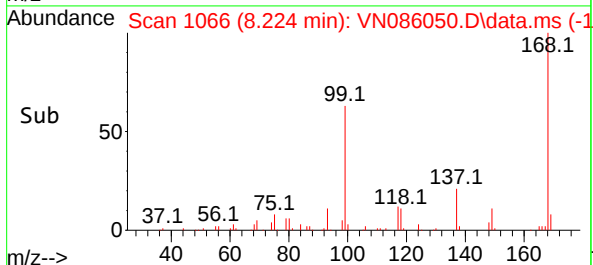
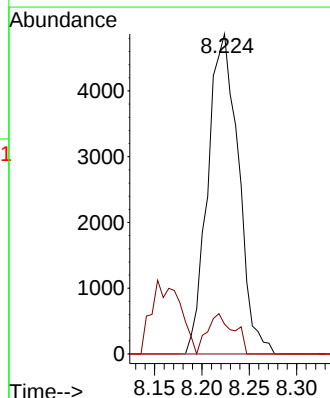
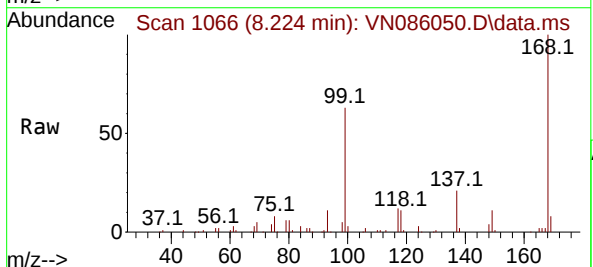
Tgt Ion: 75 Resp: 10955

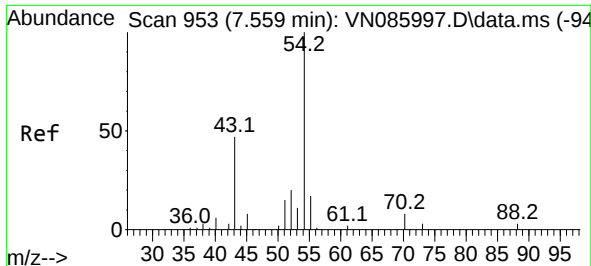
Ion Ratio Lower Upper

75 100

110 10.8 17.8 53.3#

77 0.0 25.0 37.4#

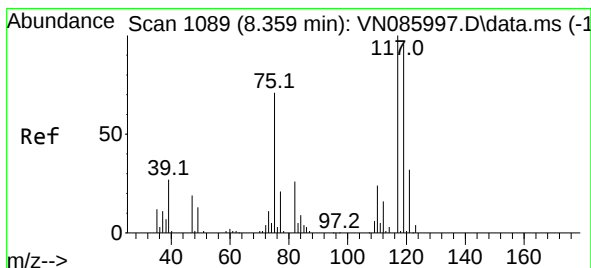
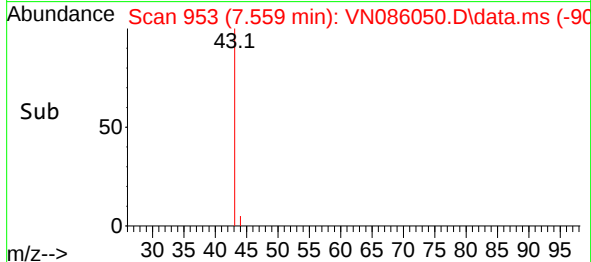
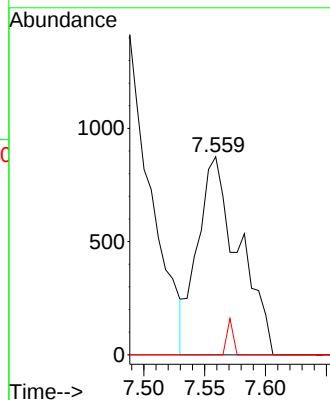
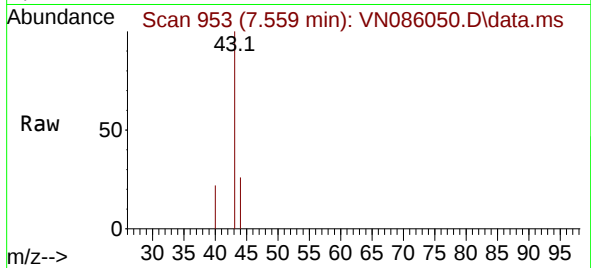




#37
Ethyl Acetate
Concen: 1.015 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

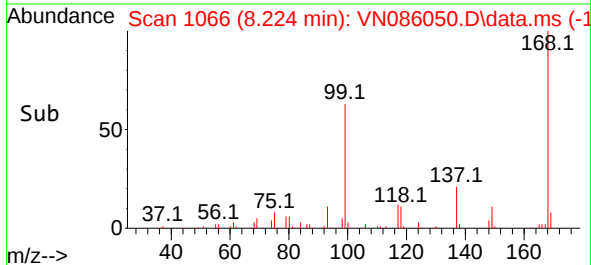
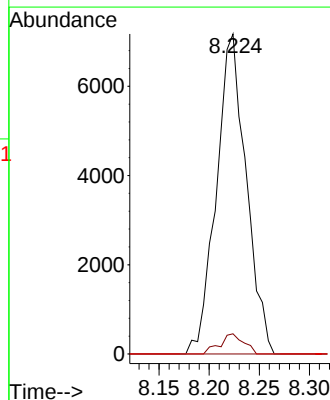
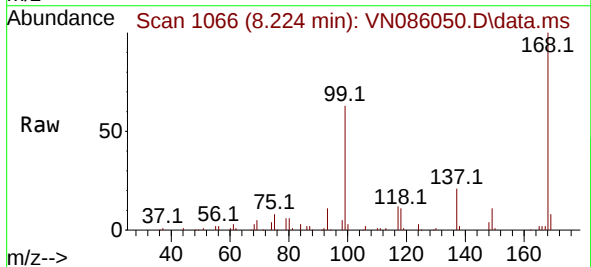
Instrument :
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PB167234ZHE#10

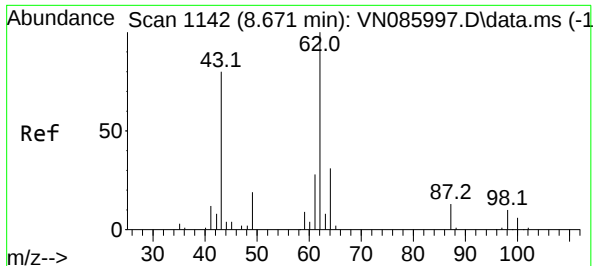
Tgt Ion: 43 Resp: 2054
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 2.7 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.708 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 117 Resp: 14840
Ion Ratio Lower Upper
117 100
119 6.3 77.0 115.4#
121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.295 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

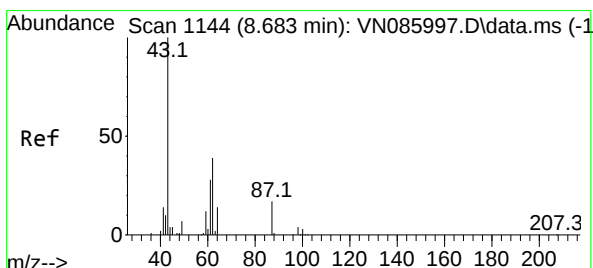
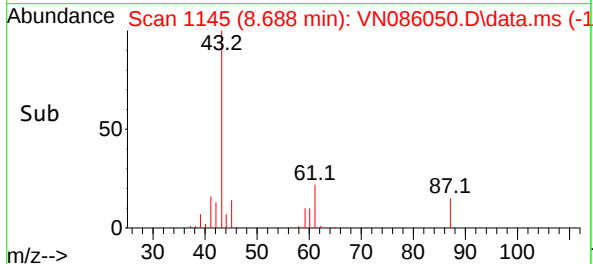
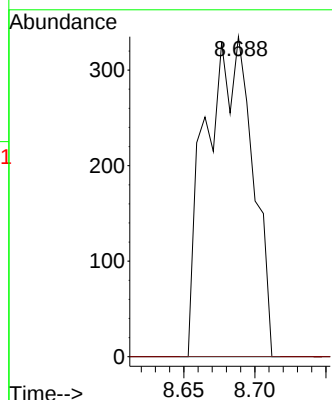
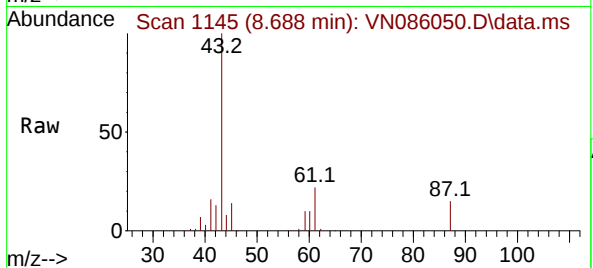
PB167234ZHE#10

Tgt Ion: 62 Resp: 773

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 25.493 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

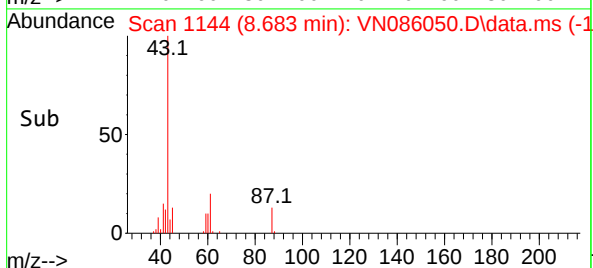
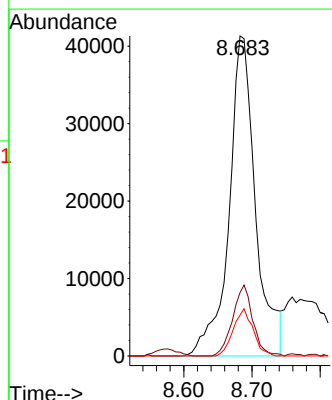
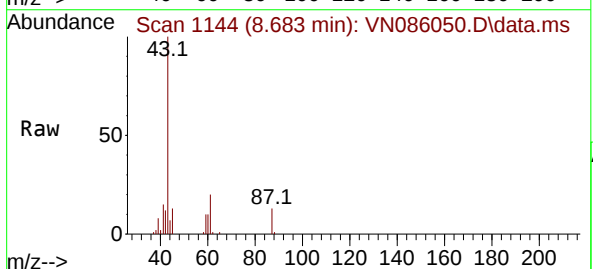
Tgt Ion: 43 Resp: 111737

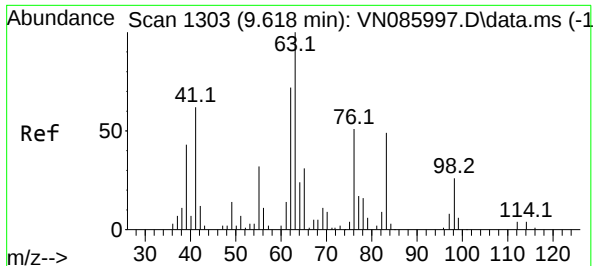
Ion Ratio Lower Upper

43 100

61 16.8 25.0 37.6#

87 11.0 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.736 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.117 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

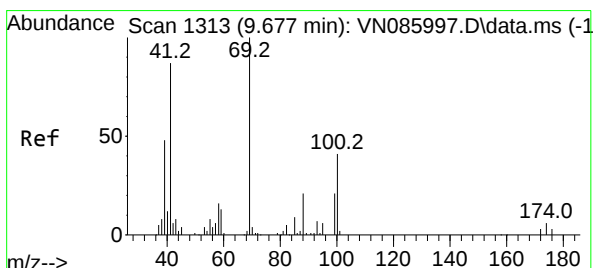
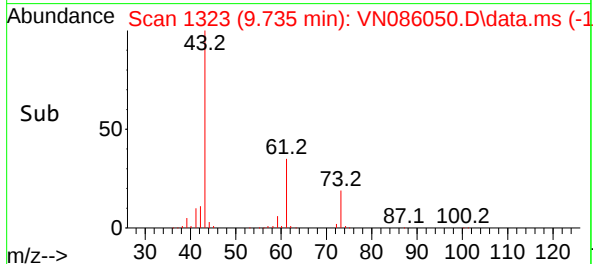
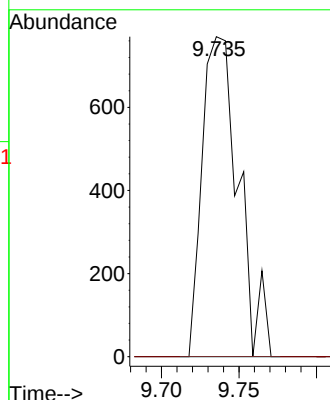
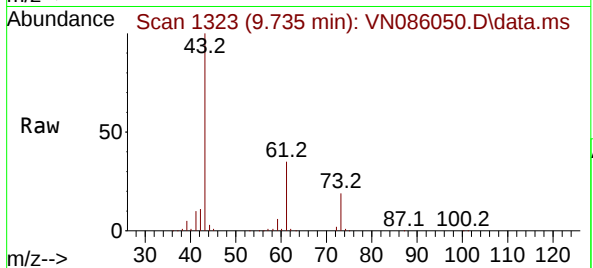
PB167234ZHE#10

Tgt Ion: 63 Resp: 1260

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 53.829 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

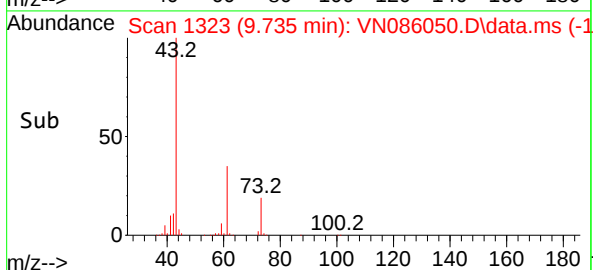
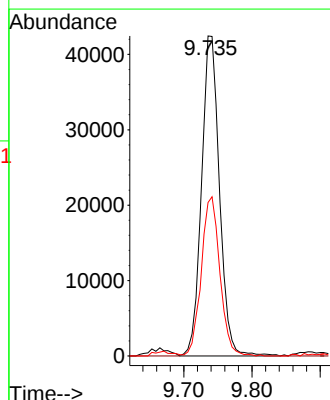
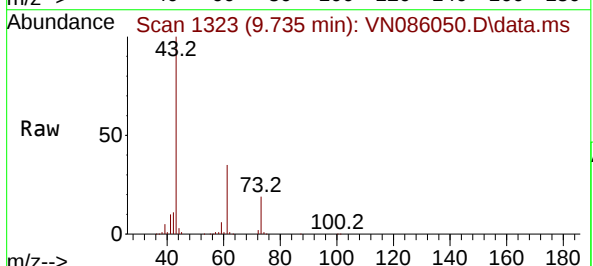
Tgt Ion: 41 Resp: 77857

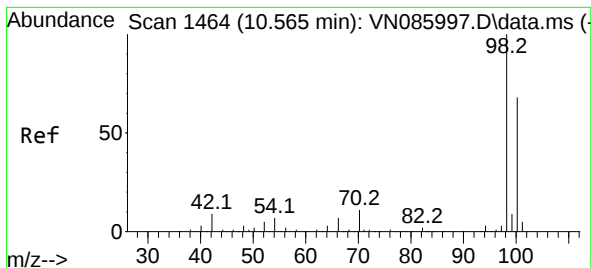
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 51.5 45.6 68.4

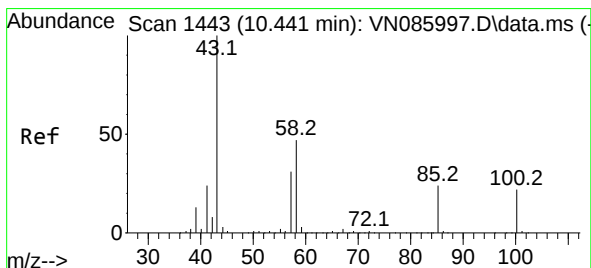
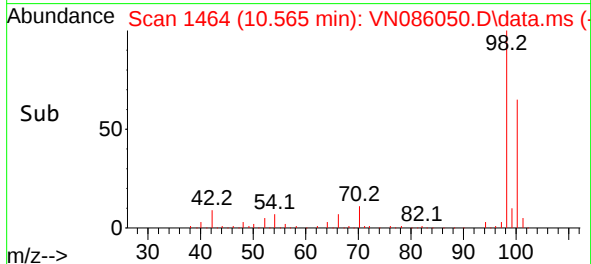
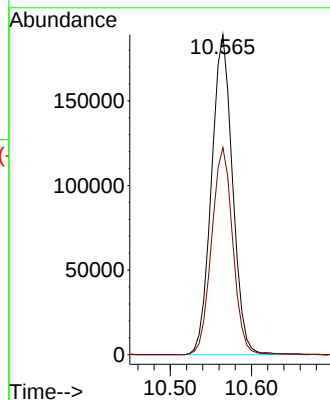
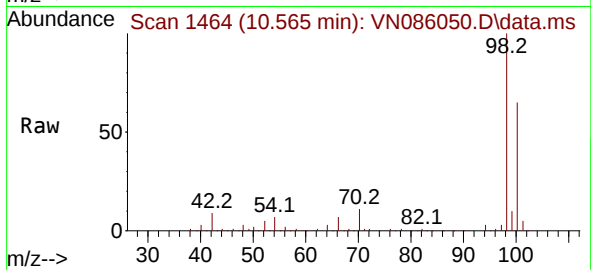




#50
Toluene-d8
Concen: 51.600 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

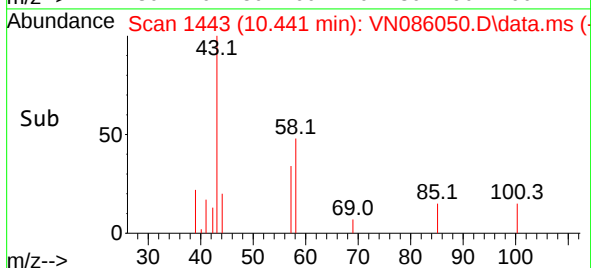
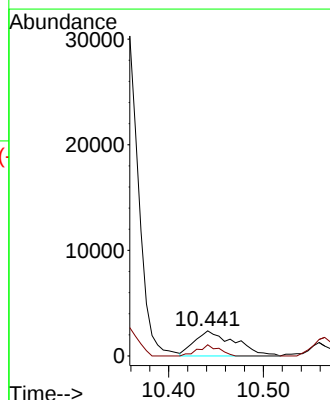
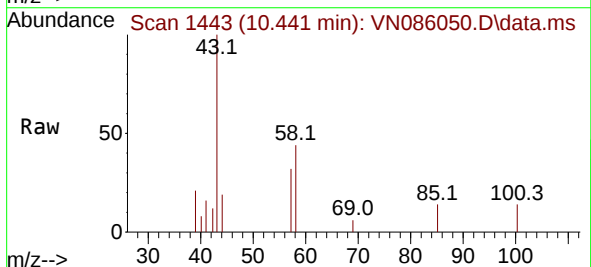
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

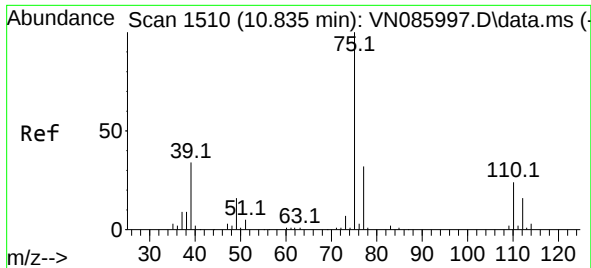
Tgt Ion: 98 Resp: 340992
Ion Ratio Lower Upper
98 100
100 65.0 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 3.626 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 43 Resp: 7009
Ion Ratio Lower Upper
43 100
58 23.3 37.4 56.0#

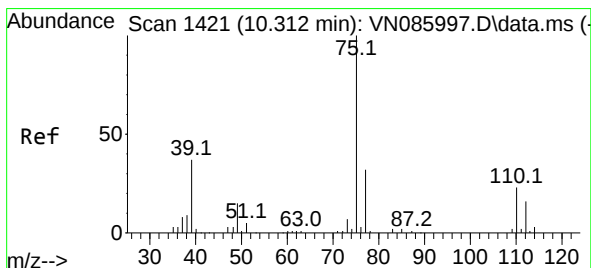
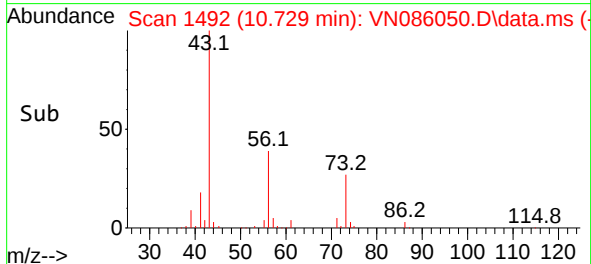
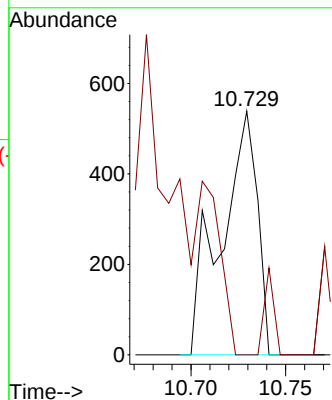
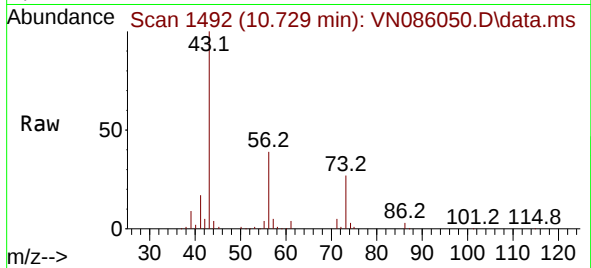




#53
 t-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN086050.D
 Acq: 21 Mar 2025 19:18

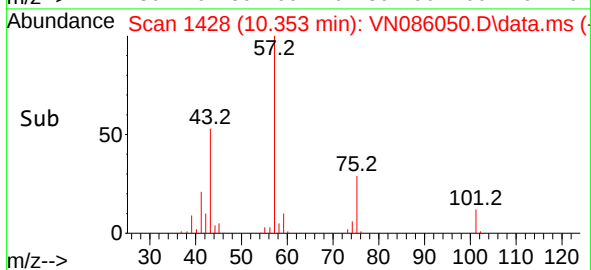
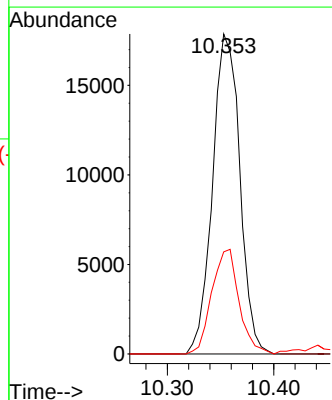
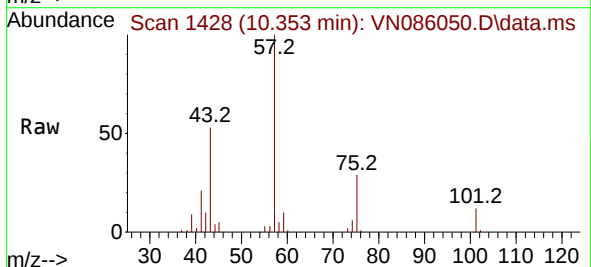
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#10

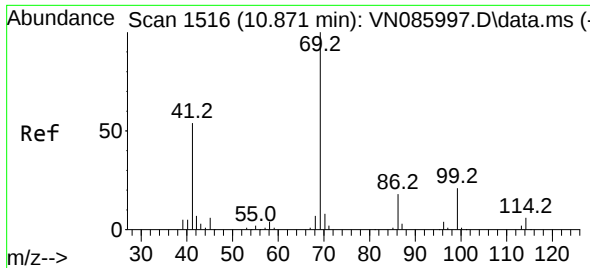
Tgt Ion: 75 Resp: 716
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#



#54
 cis-1,3-Dichloropropene
 Concen: 11.023 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086050.D
 Acq: 21 Mar 2025 19:18

Tgt Ion: 75 Resp: 31779
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 31.9 29.6 44.4

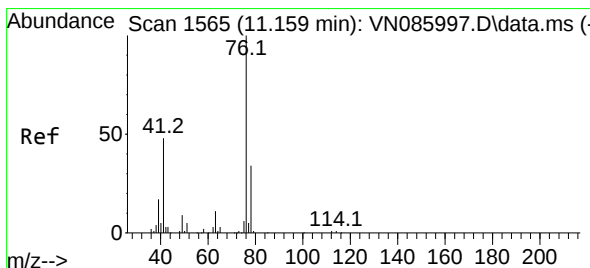
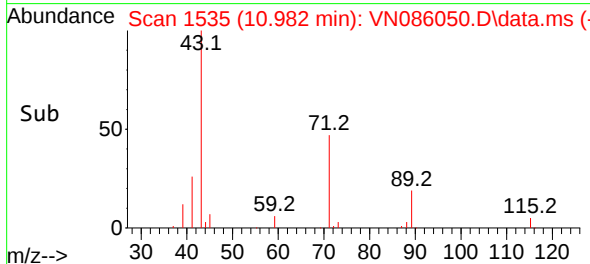
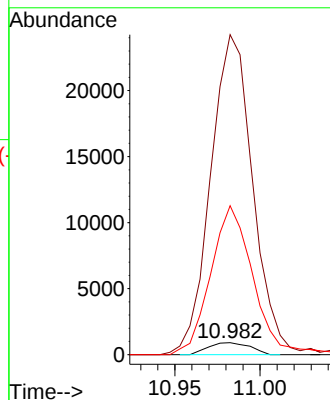
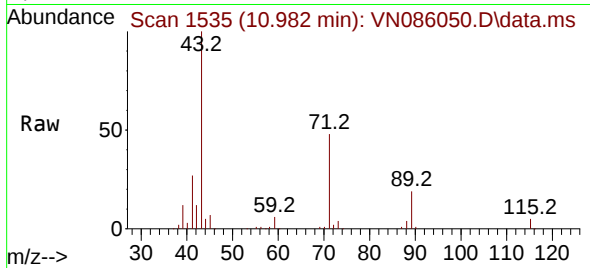




#56
Ethyl methacrylate
Concen: 0.886 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

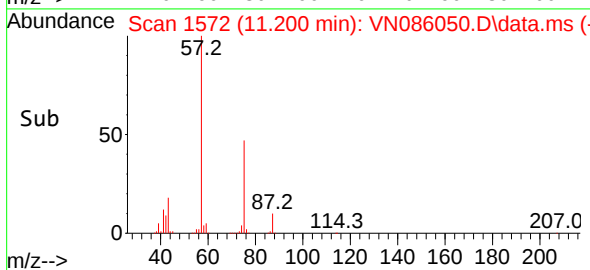
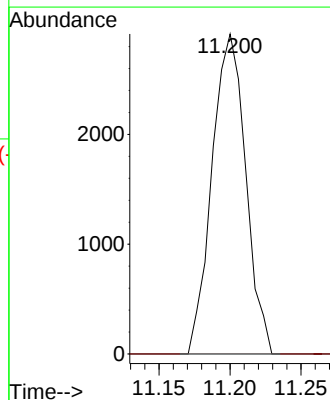
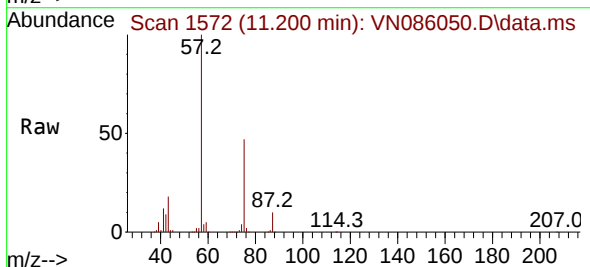
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

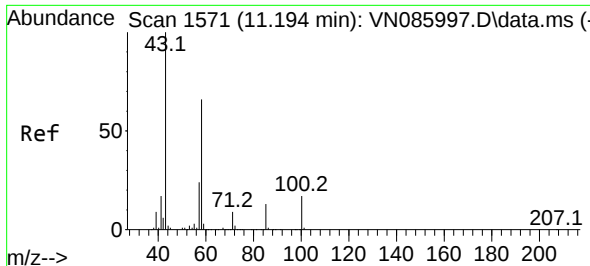
Tgt Ion: 69 Resp: 1555
Ion Ratio Lower Upper
69 100
41 2694.2 41.6 62.4#
39 1255.8 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.607 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 76 Resp: 4812
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

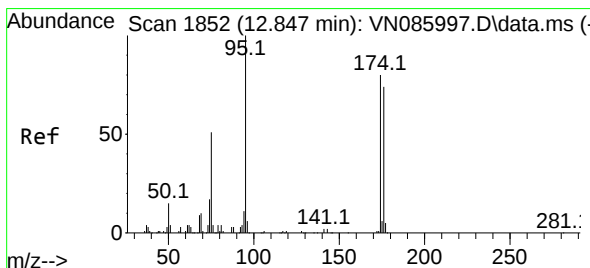
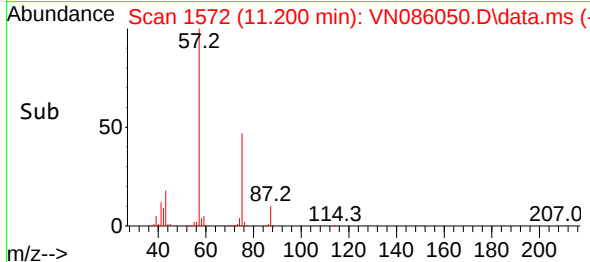
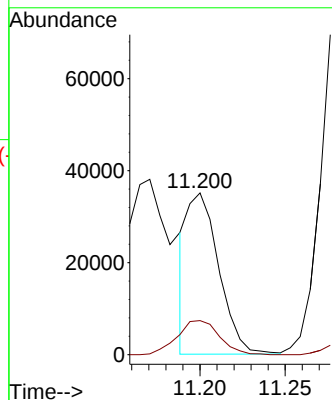
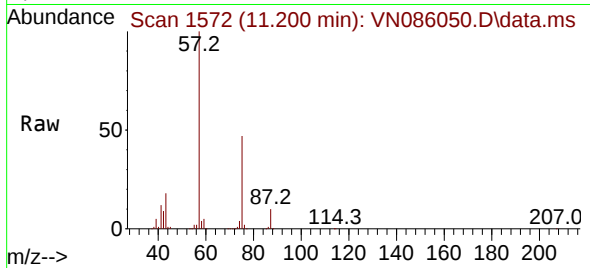




#59
2-Hexanone
Concen: 32.194 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

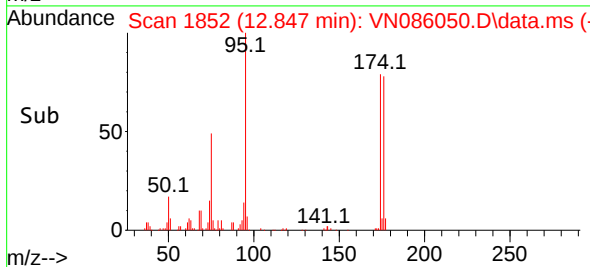
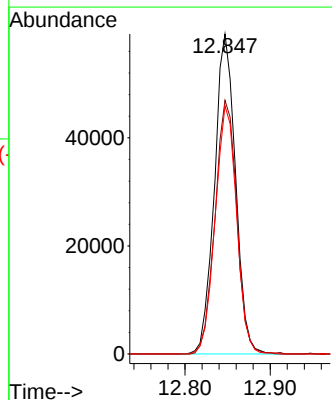
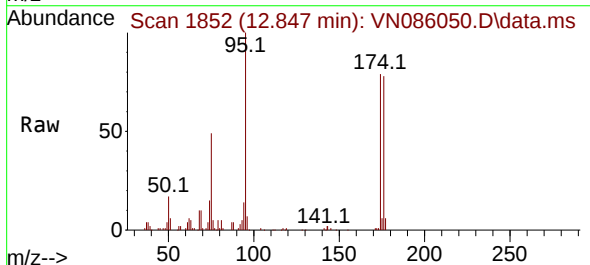
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

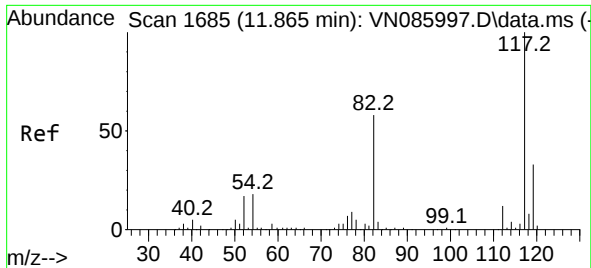
Tgt Ion: 43 Resp: 45335
Ion Ratio Lower Upper
43 100
58 28.1 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 43.156 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion: 95 Resp: 101706
Ion Ratio Lower Upper
95 100
174 81.7 0.0 156.8
176 78.8 0.0 152.2

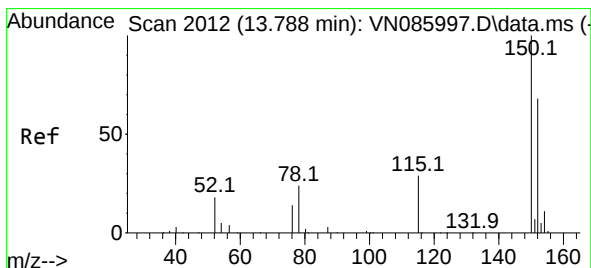
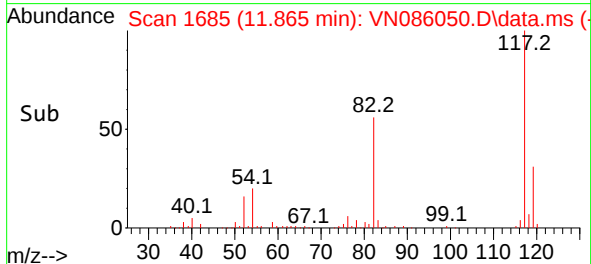
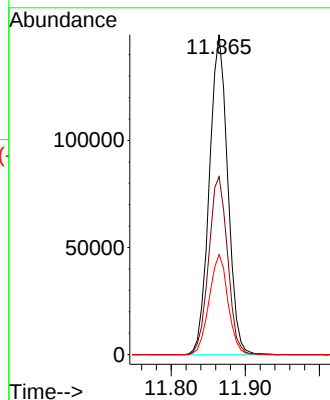
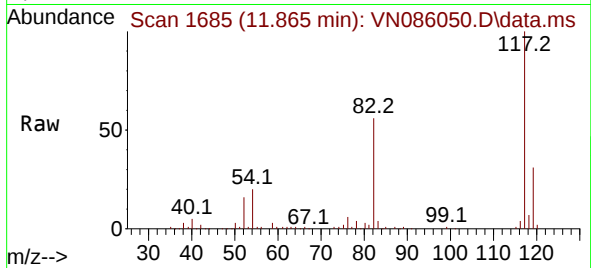




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

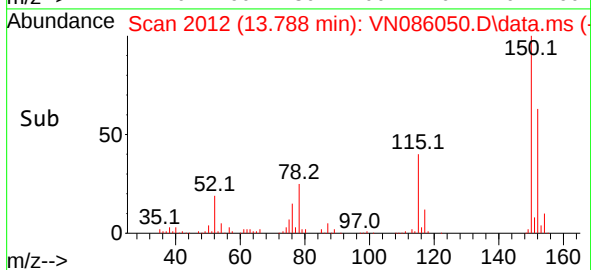
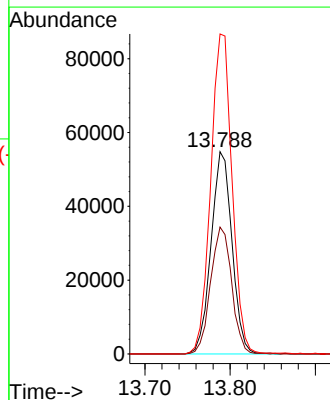
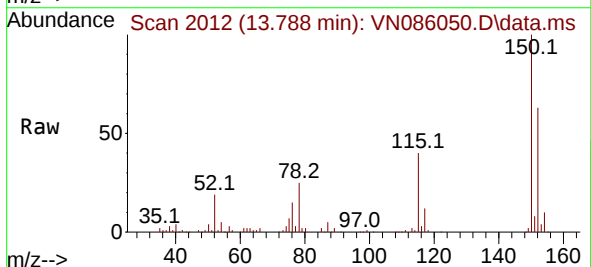
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

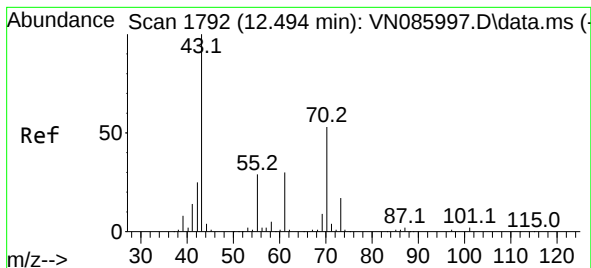
Tgt Ion:117 Resp: 257655
Ion Ratio Lower Upper
117 100
82 55.6 46.7 70.1
119 31.3 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Tgt Ion:152 Resp: 93569
Ion Ratio Lower Upper
152 100
115 63.0 31.1 93.2
150 161.3 0.0 359.6





#74

N-amy1 acetate

Concen: 0.398 ug/l

RT: 12.476 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN086050.D

Acq: 21 Mar 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#10

Tgt Ion: 43 Resp: 850

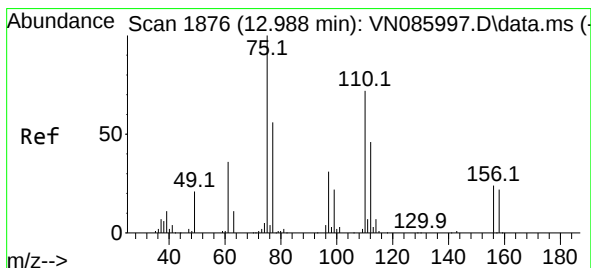
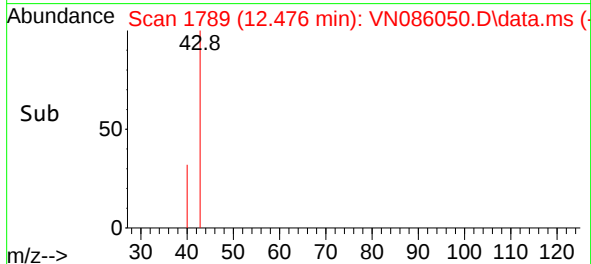
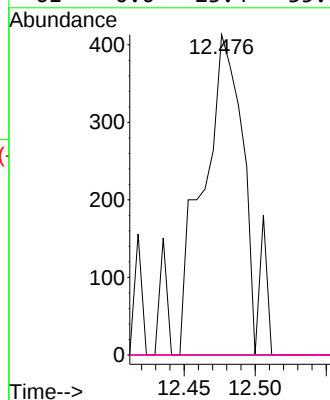
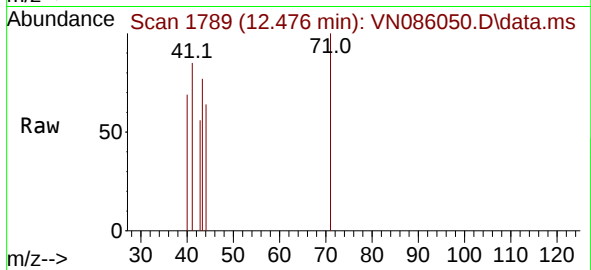
Ion Ratio Lower Upper

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: 24.255 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086050.D

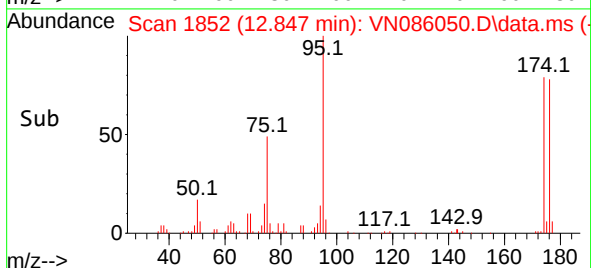
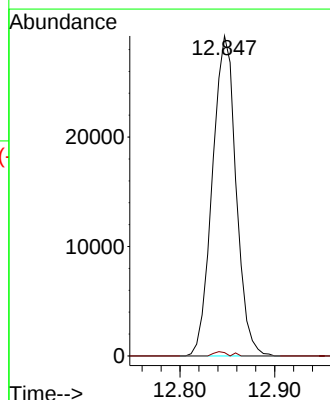
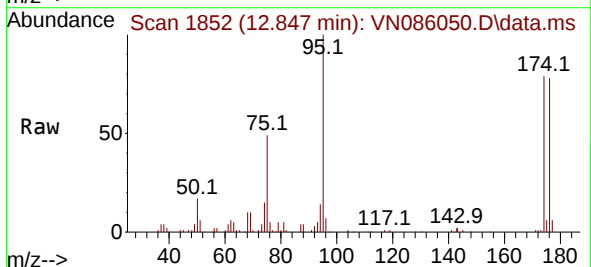
Acq: 21 Mar 2025 19:18

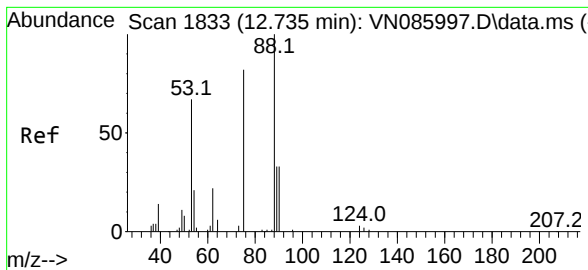
Tgt Ion: 75 Resp: 50810

Ion Ratio Lower Upper

75 100

77 0.8 83.7 251.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 64.126 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086050.D
Acq: 21 Mar 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#10

Tgt Ion:	75	Resp:	50810
Ion Ratio	Lower	Upper	
75	100		
53	0.1	66.0	99.0#
89	0.0	36.9	55.3#

