

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086049.D
 Acq On : 21 Mar 2025 18:54
 Operator : JC\MD
 Sample : PB167234ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#09

Quant Time: Mar 21 23:03:03 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	129886	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	251636	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	90956	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	105914	59.550	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 119.100%	
35) Dibromofluoromethane	8.165	113	89439	50.922	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.840%	
50) Toluene-d8	10.565	98	325371	51.043	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.080%	
62) 4-Bromofluorobenzene	12.847	95	96802	42.582	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 85.160%	

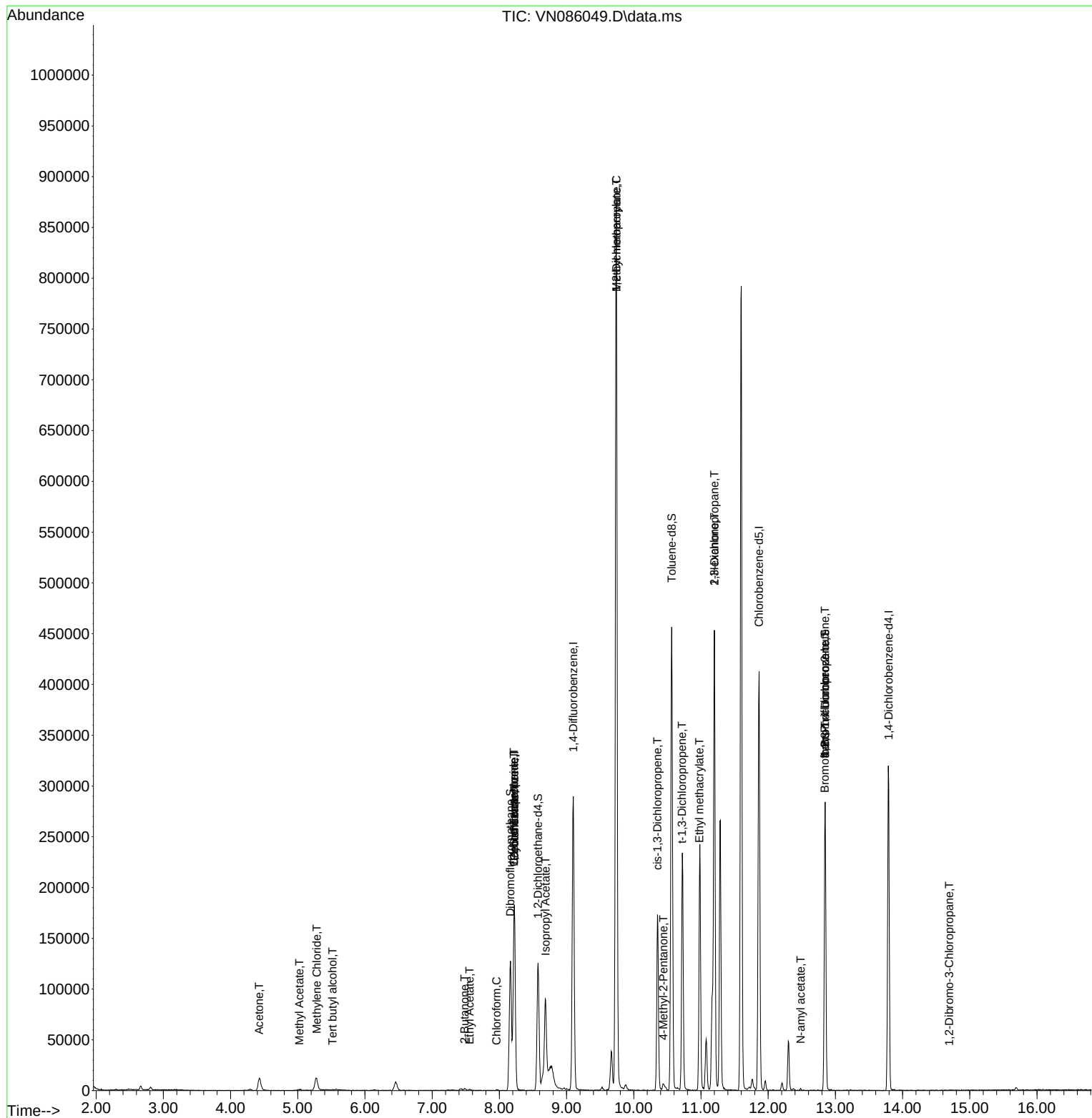
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	141	0.560	ug/l #	73
16) Acetone	4.424	43	22542	41.485	ug/l	88
18) Methyl Acetate	5.024	43	2013	1.497	ug/l #	62
20) Methylene Chloride	5.283	84	10166	6.395	ug/l	91
25) 2-Butanone	7.483	43	3200	4.081	ug/l	93
30) Chloroform	7.959	83	783	0.272	ug/l	87
31) Cyclohexane	8.224	56	2607	1.176	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	10522	4.550	ug/l #	50
37) Ethyl Acetate	7.559	43	1827	0.936	ug/l #	81
38) Carbon Tetrachloride	8.218	117	13832	4.549	ug/l #	16
43) Isopropyl Acetate	8.688	43	108566	25.678	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	1222	0.740	ug/l #	44
48) Methyl methacrylate	9.741	41	77559	55.591	ug/l #	33
51) 4-Methyl-2-Pentanone	10.441	43	7159	3.839	ug/l #	67
53) t-1,3-Dichloropropene	10.718	75	823	0.312	ug/l #	25
54) cis-1,3-Dichloropropene	10.353	75	32347	11.632	ug/l #	68
56) Ethyl methacrylate	10.976	69	1697	0.978	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4645	1.608	ug/l #	42
59) 2-Hexanone	11.200	43	54175	39.882	ug/l #	49
71) Bromoform	12.841	173	527	0.302	ug/l #	1
74) N-amyl acetate	12.482	43	648	0.312	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	49272	24.196	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	49272	63.971	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.694	75	123	0.293	ug/l #	2

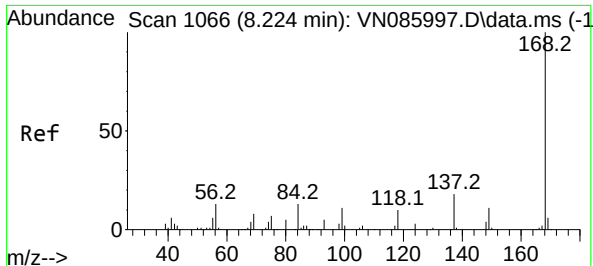
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 21 23:03:03 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

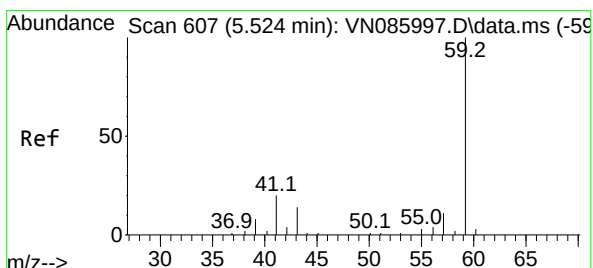
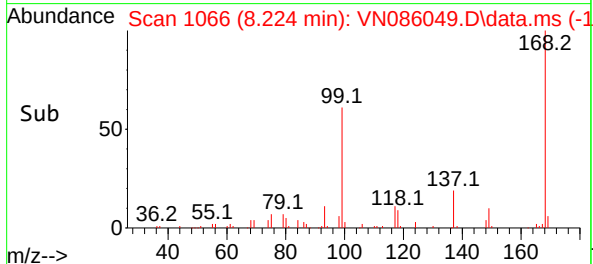
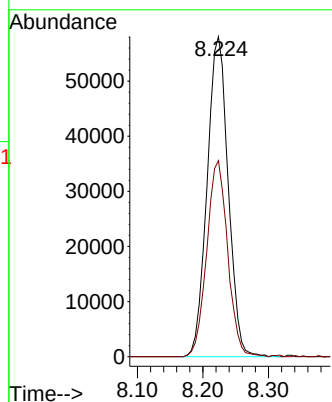
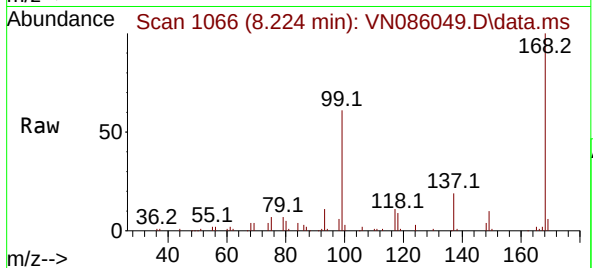




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

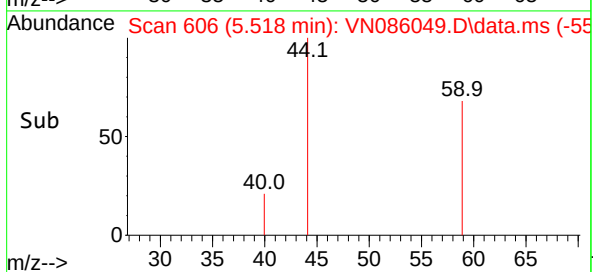
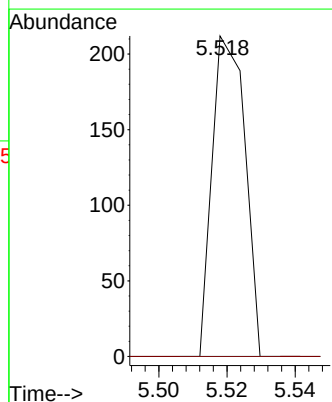
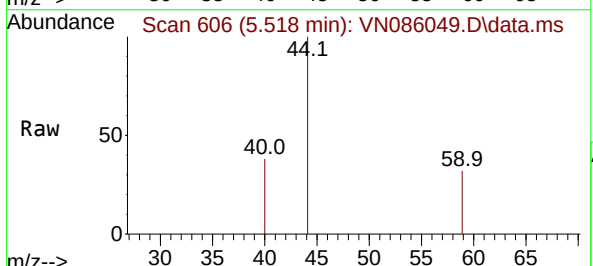
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

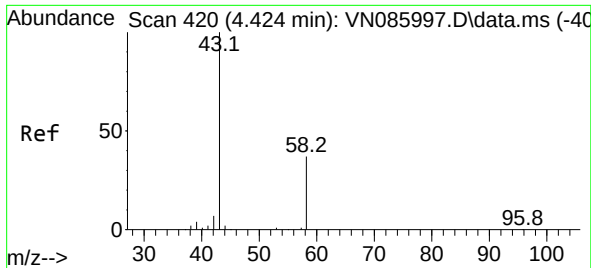
Tgt Ion:168 Resp: 129886
Ion Ratio Lower Upper
168 100
99 61.2 49.4 74.2



#11
Tert butyl alcohol
Concen: 0.560 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 59 Resp: 141
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

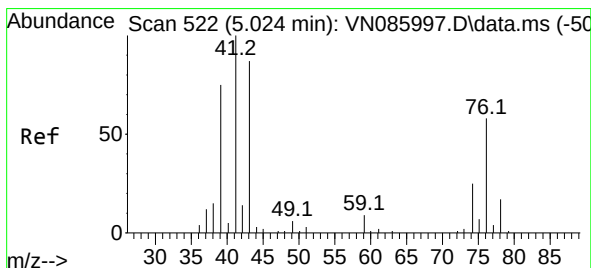
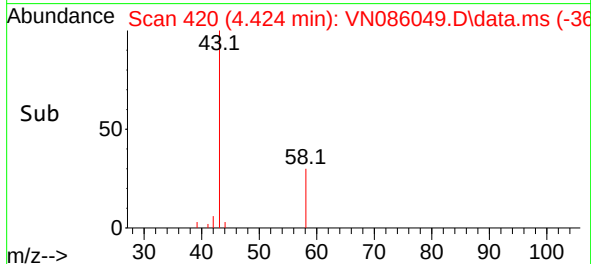
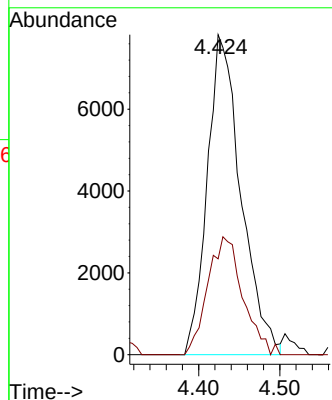
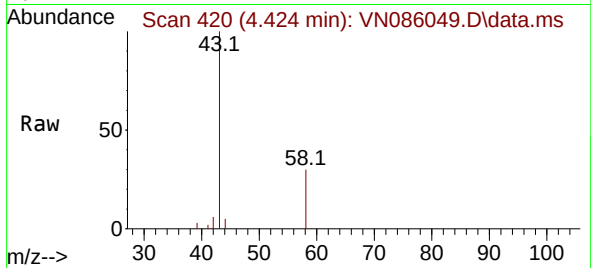




#16
Acetone
Concen: 41.485 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

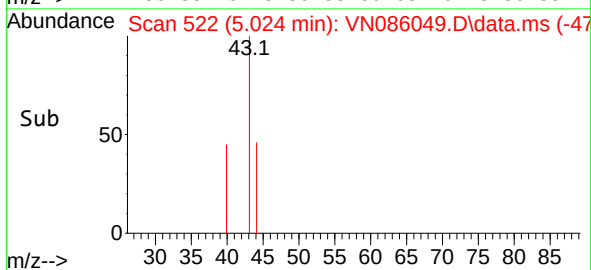
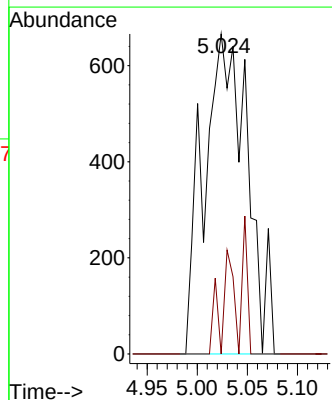
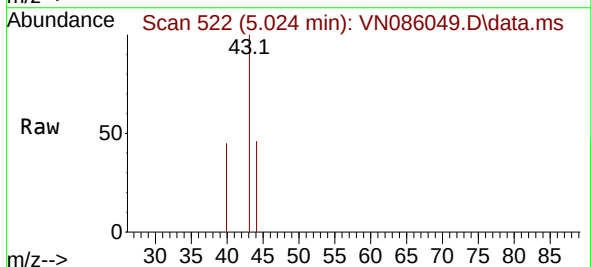
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

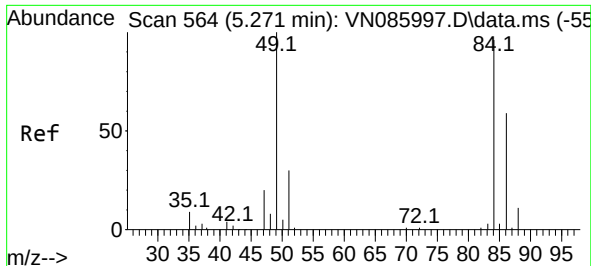
Tgt Ion: 43 Resp: 22542
Ion Ratio Lower Upper
43 100
58 29.9 29.4 44.2



#18
Methyl Acetate
Concen: 1.497 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 43 Resp: 2013
Ion Ratio Lower Upper
43 100
74 9.4 23.9 35.9#

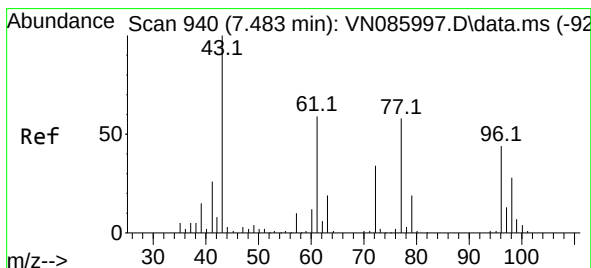
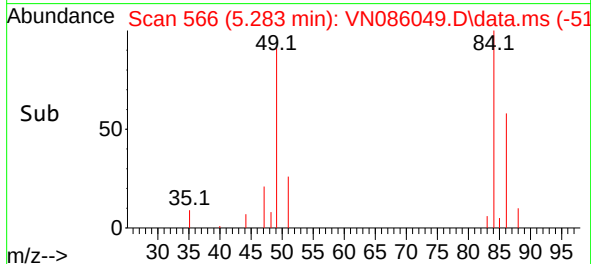
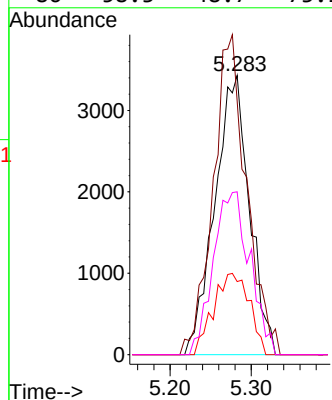
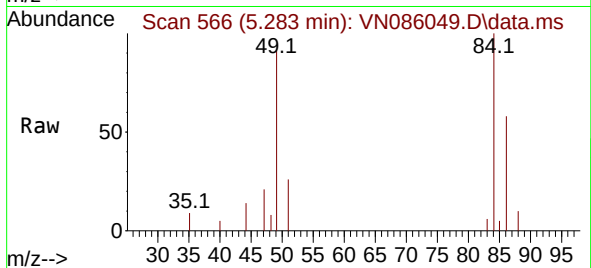




#20
Methylene Chloride
Concen: 6.395 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

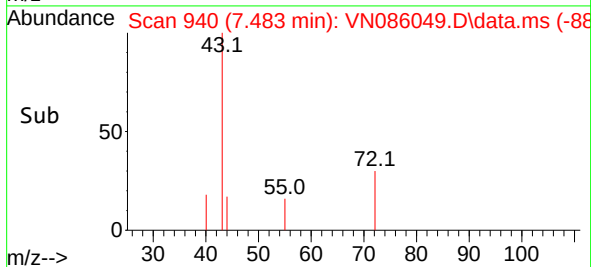
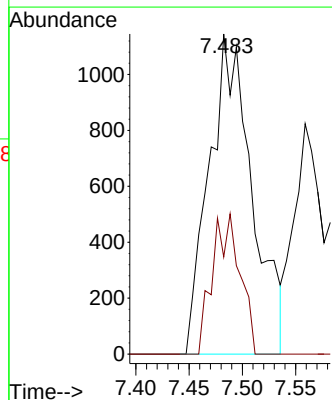
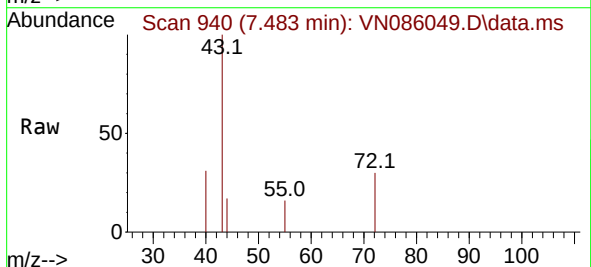
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

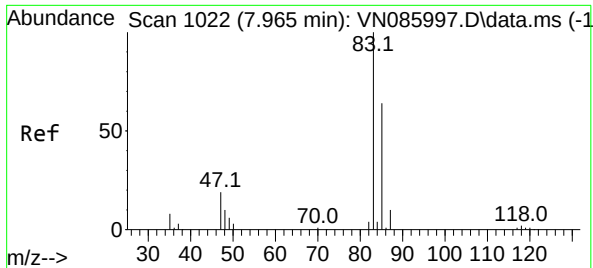
Tgt Ion: 84	Resp: 10166
Ion Ratio	Lower Upper
84 100	
49 90.8	83.3 124.9
51 26.2	24.8 37.2
86 58.3	48.7 73.1



#25
2-Butanone
Concen: 4.081 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 43	Resp: 3200		
Ion Ratio	Lower	Upper	
43 100			
72 30.3	27.4	41.0	

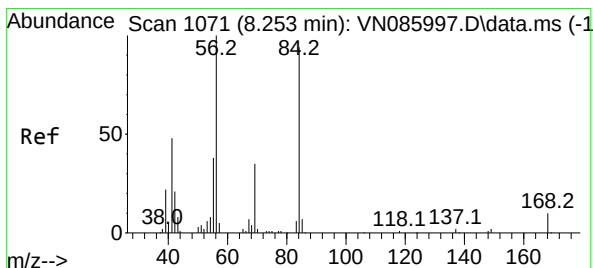
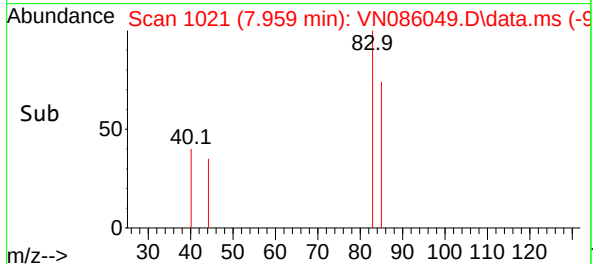
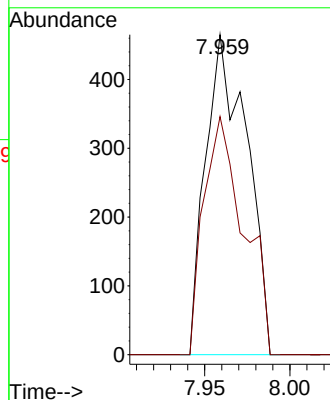
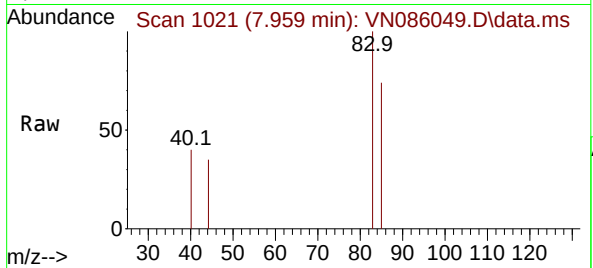




#30
Chloroform
Concen: 0.272 ug/l
RT: 7.959 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

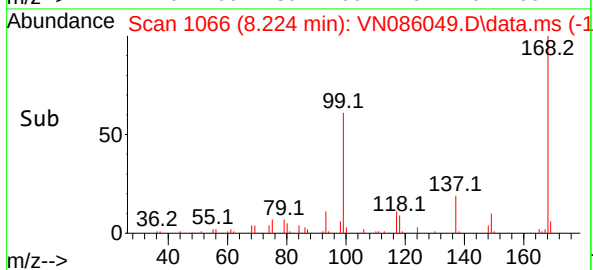
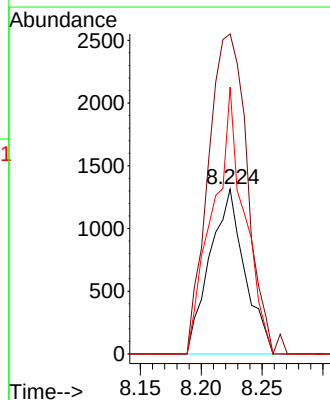
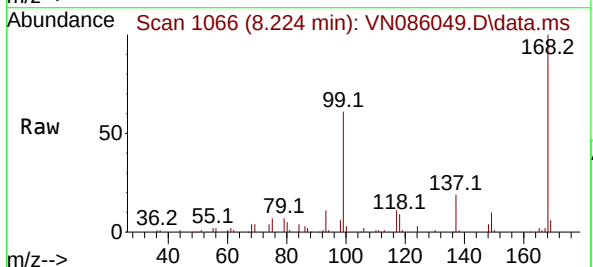
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

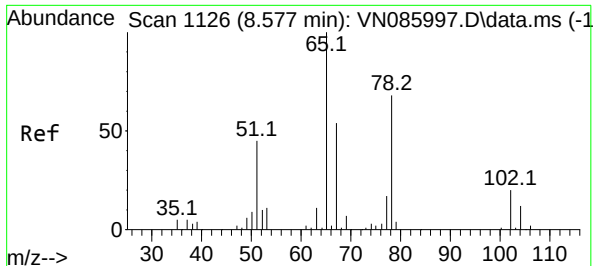
Tgt Ion: 83 Resp: 783
Ion Ratio Lower Upper
83 100
85 74.4 51.5 77.3



#31
Cyclohexane
Concen: 1.176 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 56 Resp: 2607
Ion Ratio Lower Upper
56 100
69 194.3 28.0 42.0#
84 162.1 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 59.550 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

Instrument :

MSVOA_N

ClientSampleId :

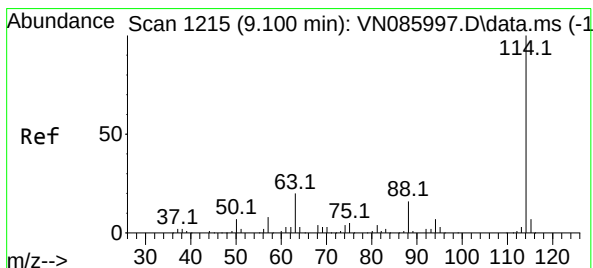
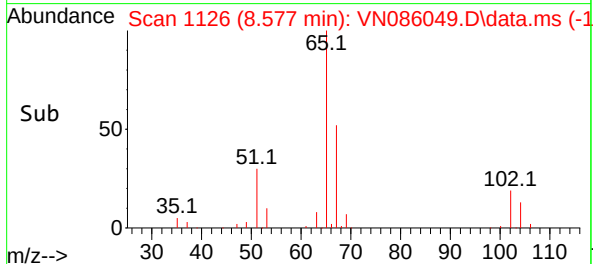
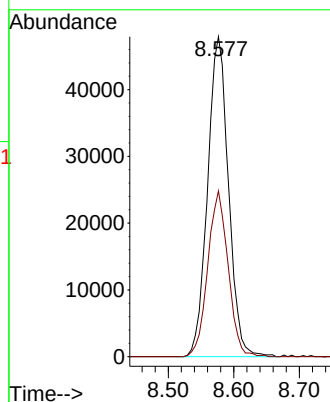
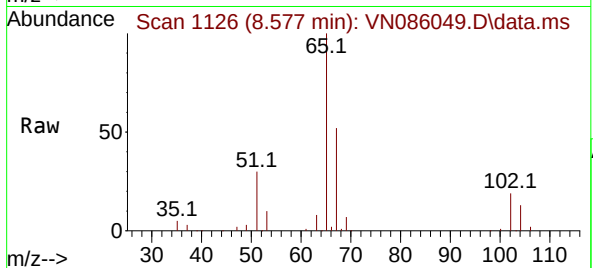
PB167234ZHE#09

Tgt Ion: 65 Resp: 105914

Ion Ratio Lower Upper

65 100

67 50.6 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: VN086049.D

Acq: 21 Mar 2025 18:54

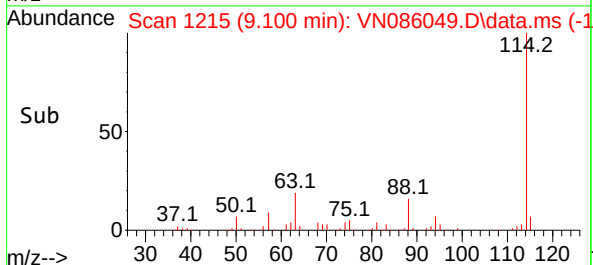
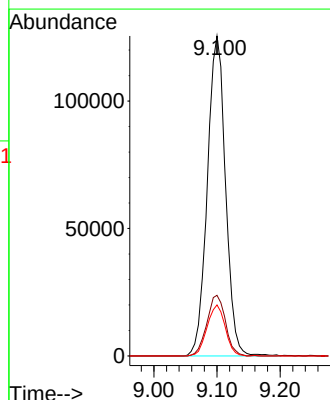
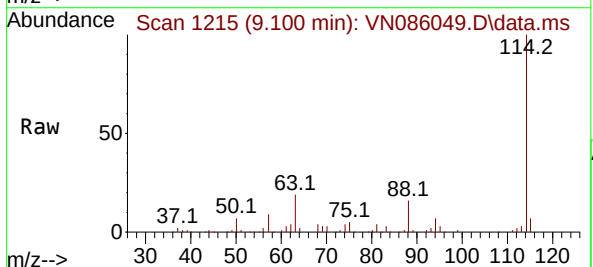
Tgt Ion: 114 Resp: 251636

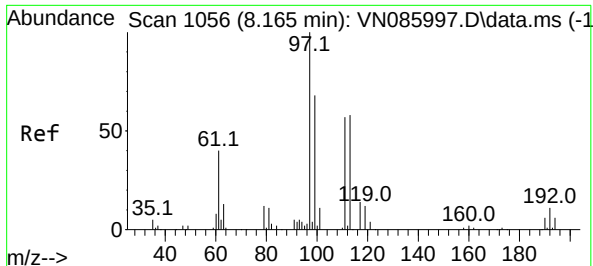
Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.6

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.922 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#09

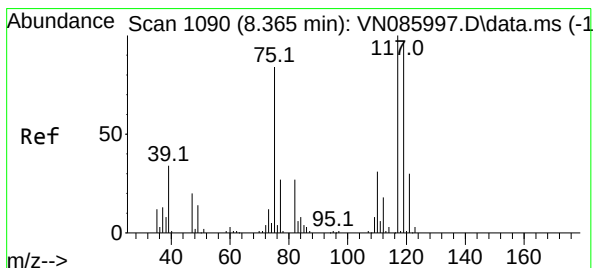
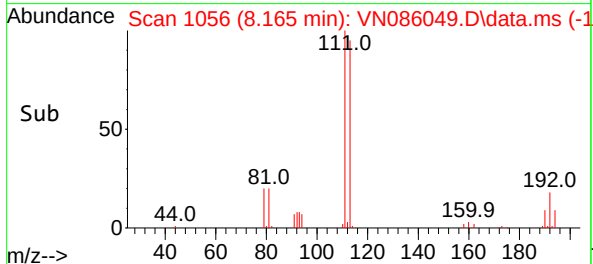
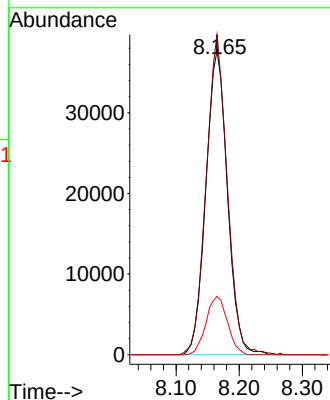
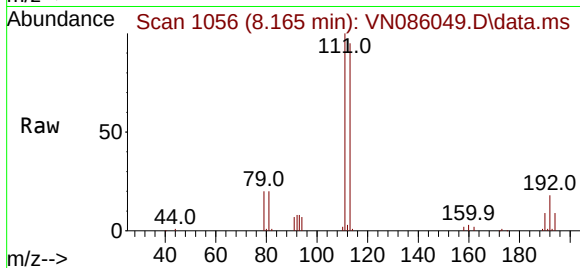
Tgt Ion:113 Resp: 89439

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

192 19.0 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

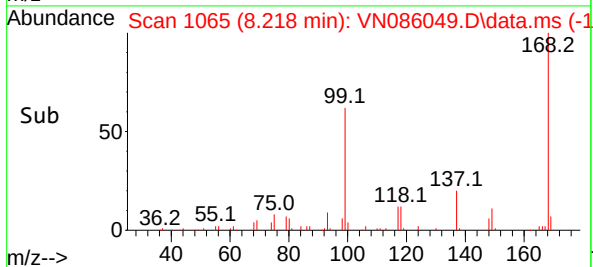
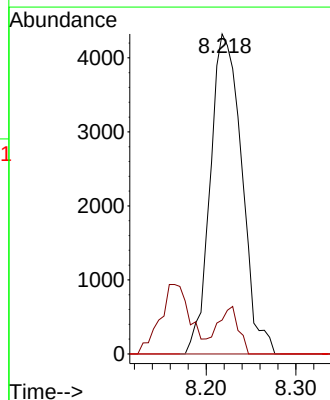
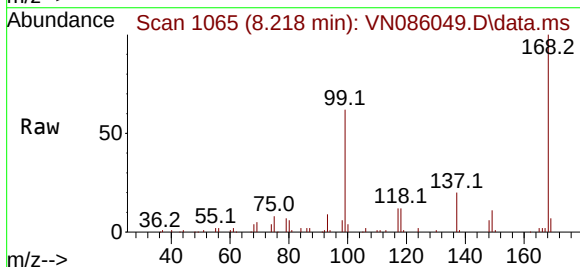
Tgt Ion: 75 Resp: 10522

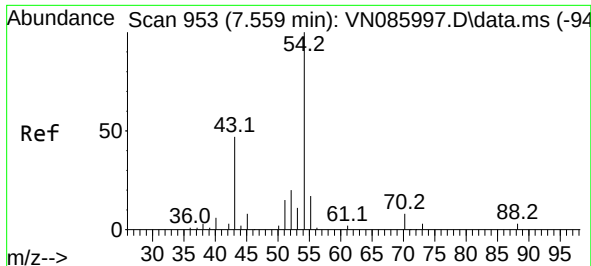
Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.936 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#09

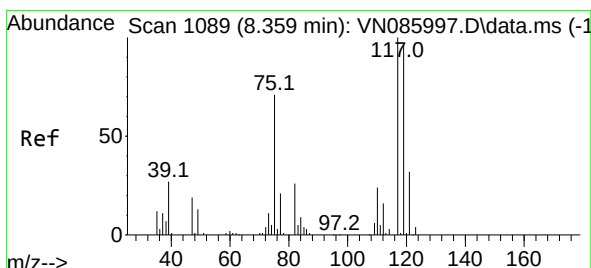
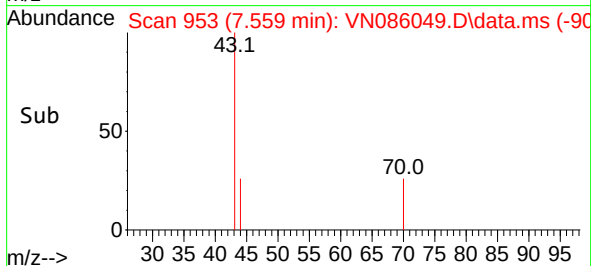
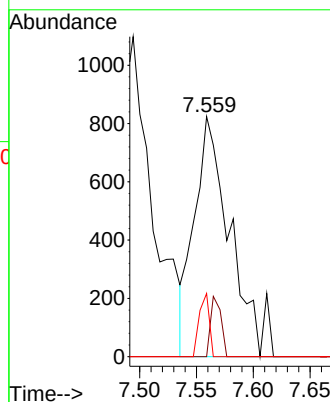
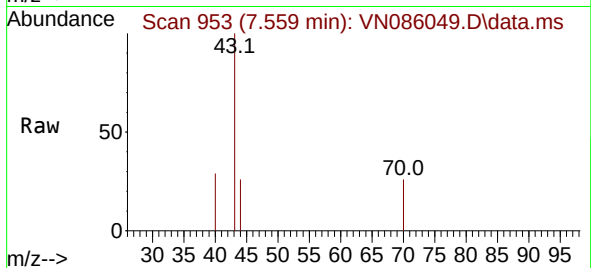
Tgt Ion: 43 Resp: 1827

Ion Ratio Lower Upper

43 100

61 7.1 13.0 19.4#

70 7.3 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.549 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

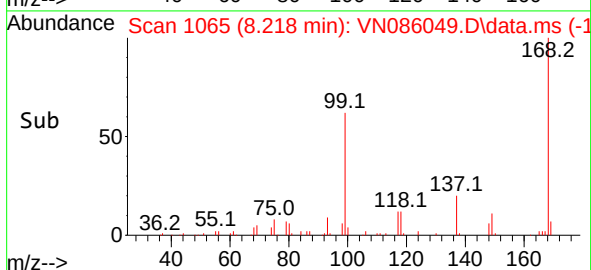
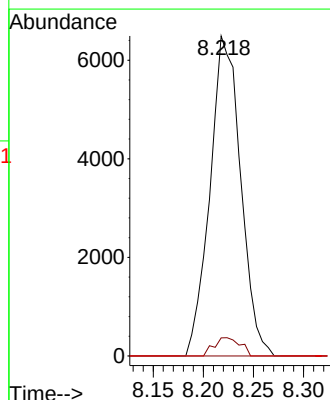
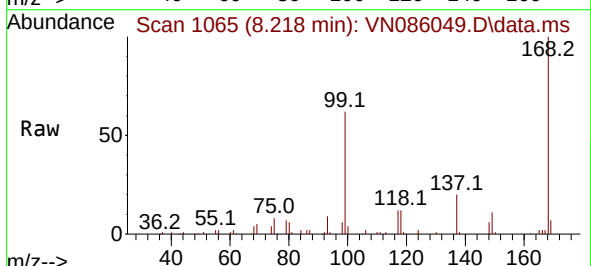
Tgt Ion: 117 Resp: 13832

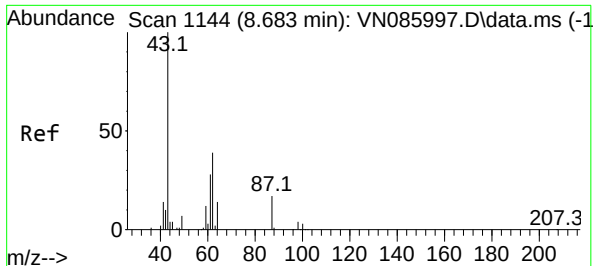
Ion Ratio Lower Upper

117 100

119 5.7 77.0 115.4#

121 0.0 25.6 38.4#

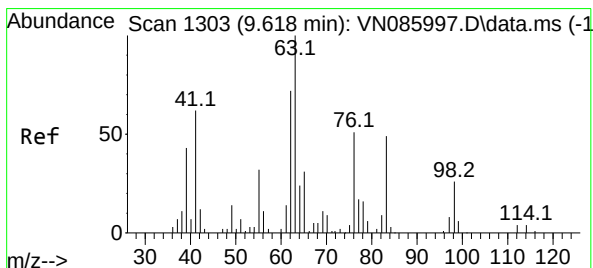
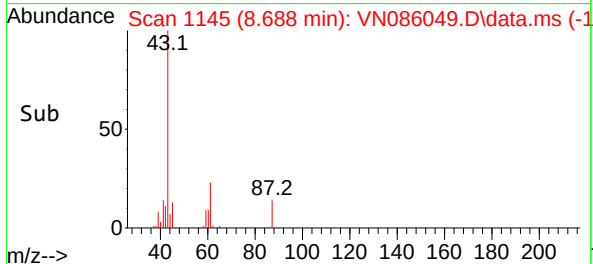
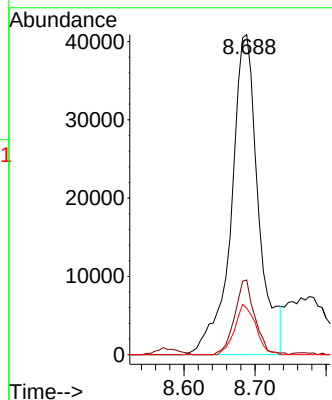
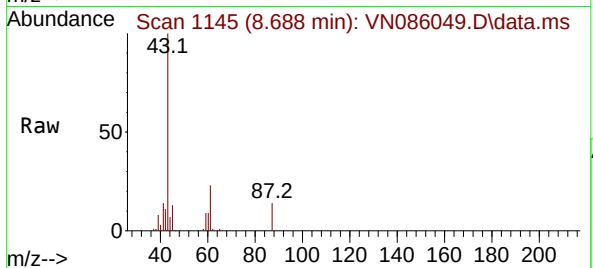




#43
Isopropyl Acetate
Concen: 25.678 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

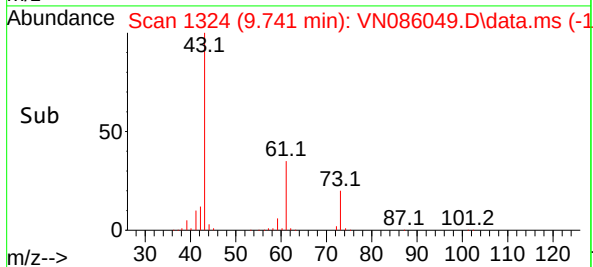
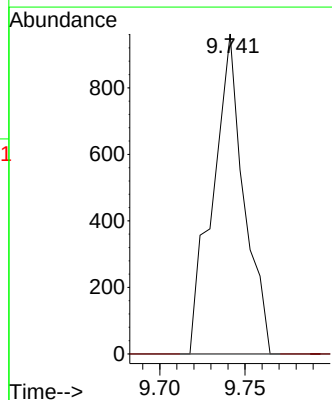
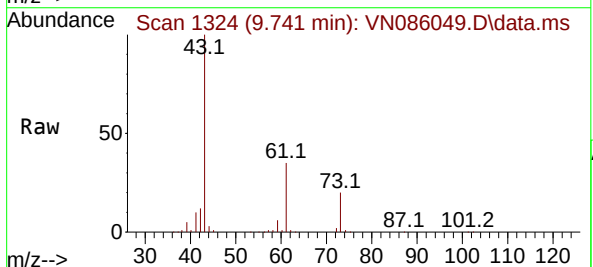
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

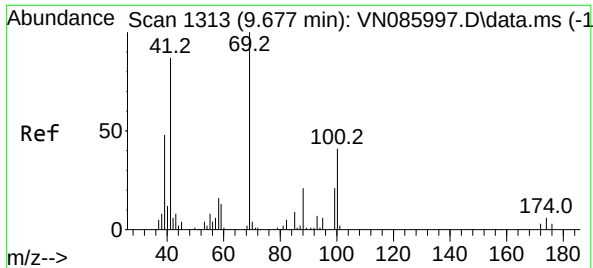
Tgt Ion: 43 Resp: 108566
Ion Ratio Lower Upper
43 100
61 17.5 25.0 37.6#
87 12.2 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.740 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

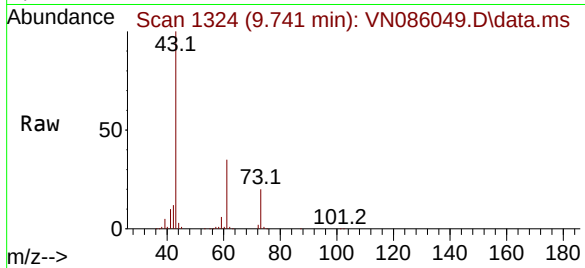
Tgt Ion: 63 Resp: 1222
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#



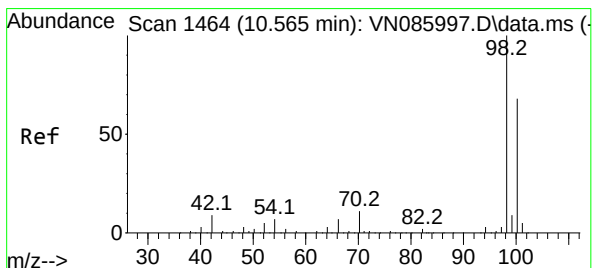
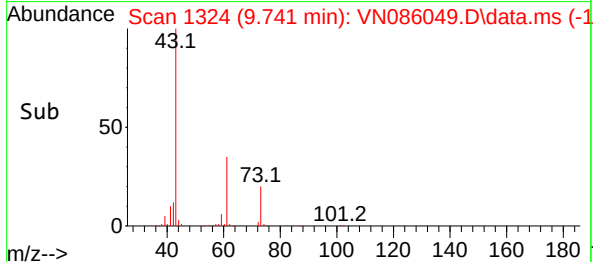
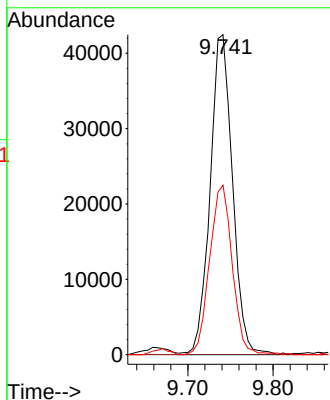


#48
Methyl methacrylate
Concen: 55.591 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.064 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

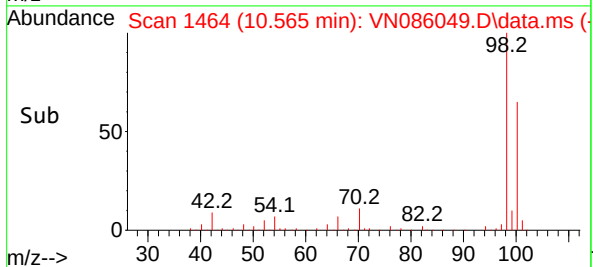
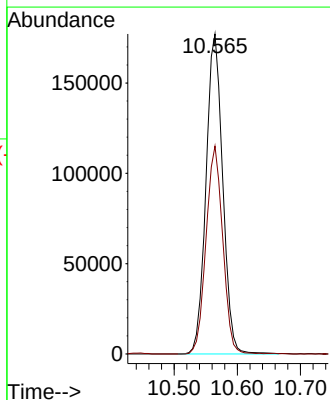
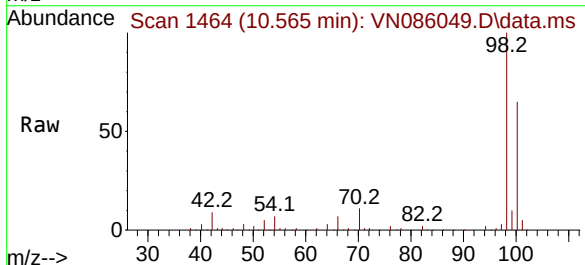


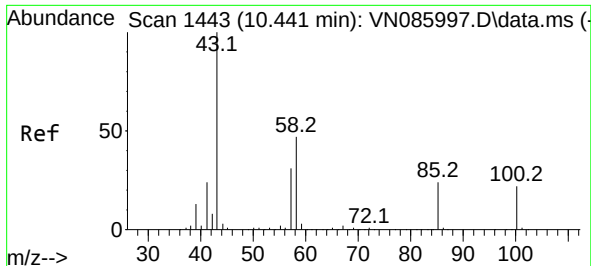
Tgt Ion: 41 Resp: 77559
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 53.6 45.6 68.4



#50
Toluene-d8
Concen: 51.043 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 98 Resp: 325371
Ion Ratio Lower Upper
98 100
100 64.9 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 3.839 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

Instrument :

MSVOA_N

ClientSampleId :

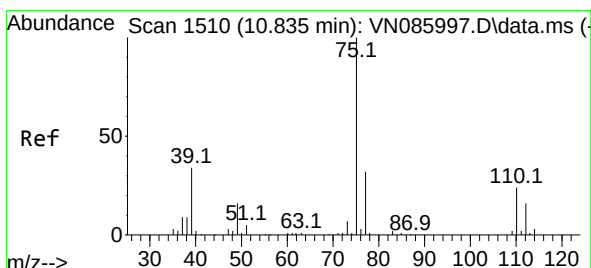
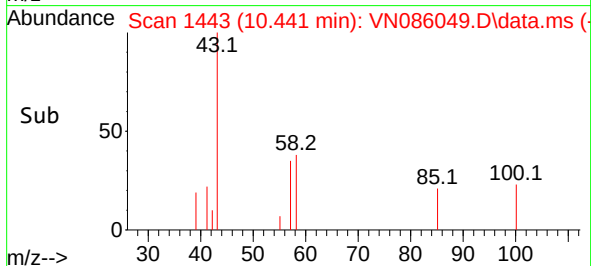
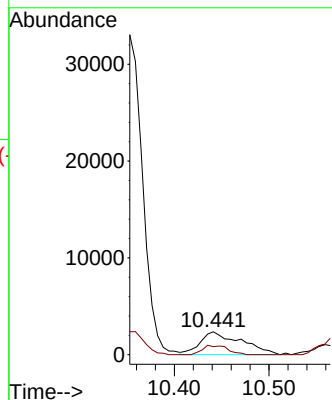
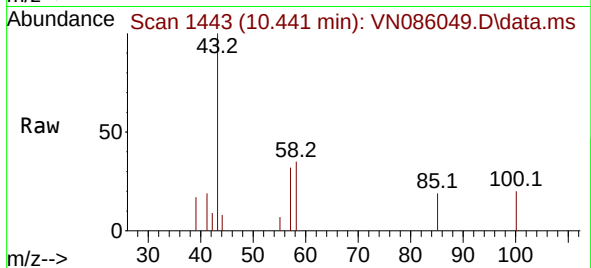
PB167234ZHE#09

Tgt Ion: 43 Resp: 7159

Ion Ratio Lower Upper

43 100

58 24.7 37.4 56.0#



#53

t-1,3-Dichloropropene

Concen: 0.312 ug/l

RT: 10.718 min Scan# 1490

Delta R.T. -0.118 min

Lab File: VN086049.D

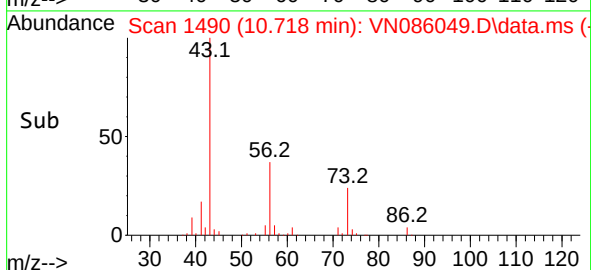
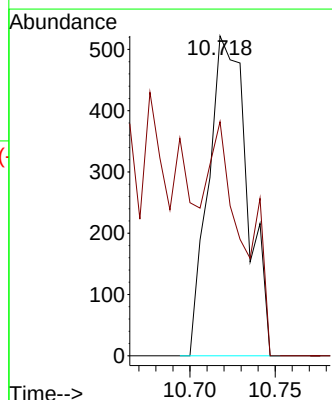
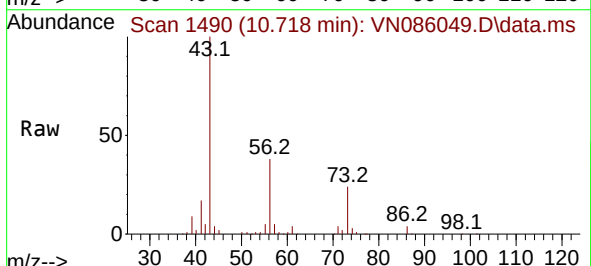
Acq: 21 Mar 2025 18:54

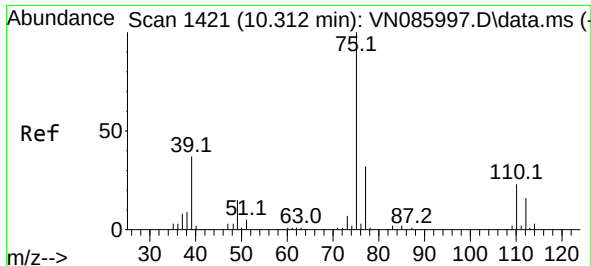
Tgt Ion: 75 Resp: 823

Ion Ratio Lower Upper

75 100

77 73.2 25.3 37.9#

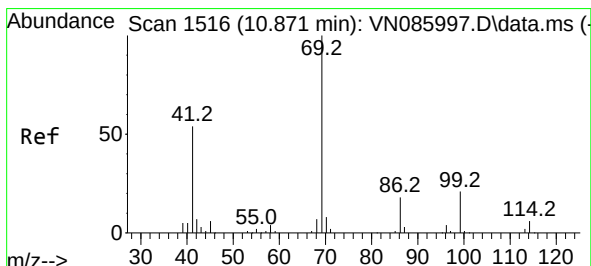
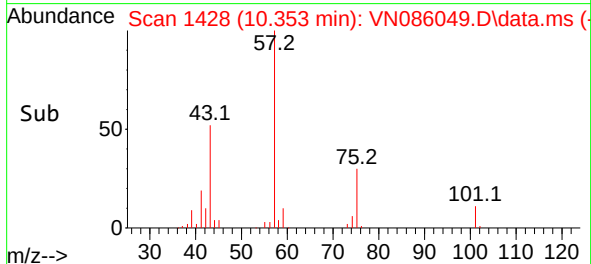
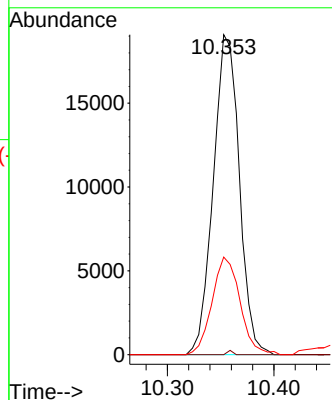
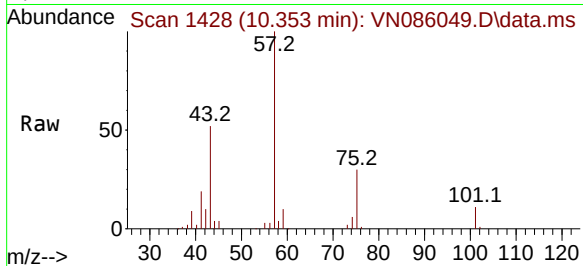




#54
 cis-1,3-Dichloropropene
 Concen: 11.632 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086049.D
 Acq: 21 Mar 2025 18:54

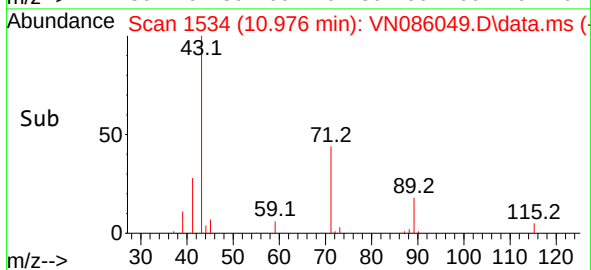
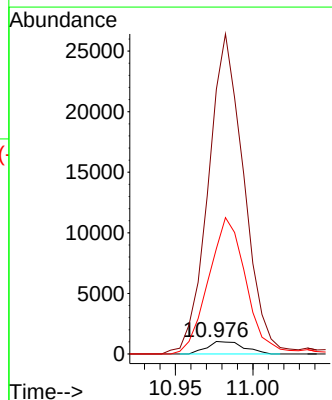
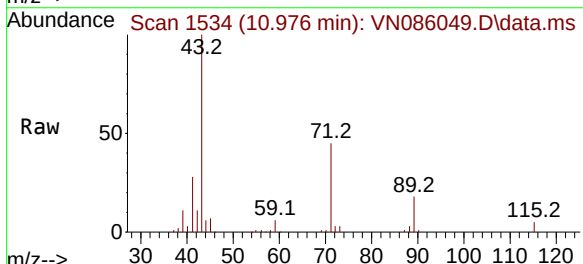
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#09

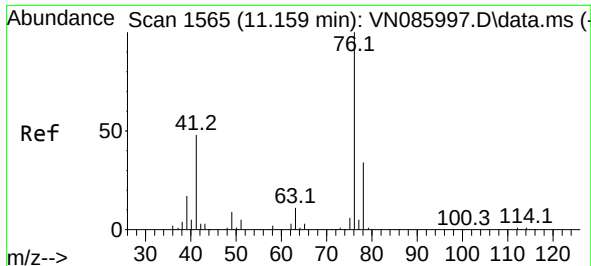
Tgt Ion: 75 Resp: 32347
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 30.5 29.6 44.4



#56
 Ethyl methacrylate
 Concen: 0.978 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN086049.D
 Acq: 21 Mar 2025 18:54

Tgt Ion: 69 Resp: 1697
 Ion Ratio Lower Upper
 69 100
 41 2489.5 41.6 62.4#
 39 1130.8 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.608 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086049.D

Acq: 21 Mar 2025 18:54

Instrument :

MSVOA_N

ClientSampleId :

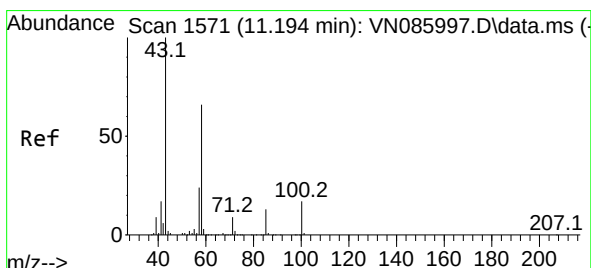
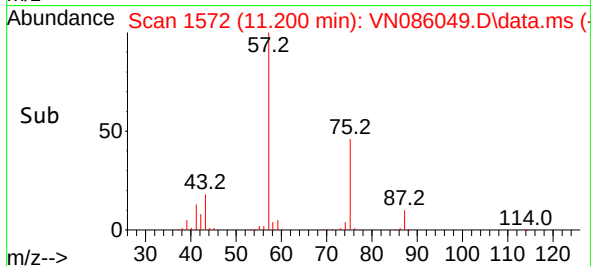
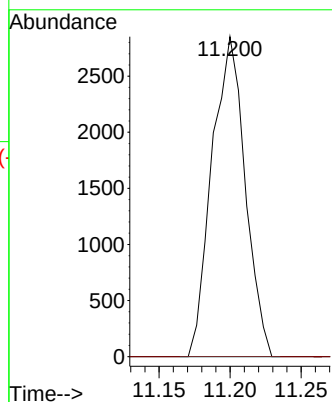
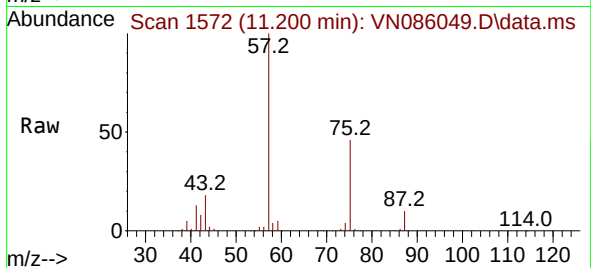
PB167234ZHE#09

Tgt Ion: 76 Resp: 4645

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 39.882 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086049.D

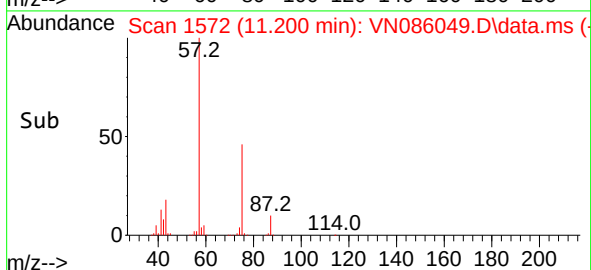
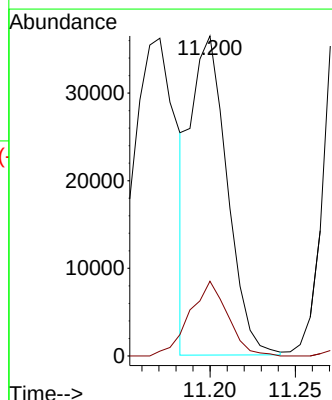
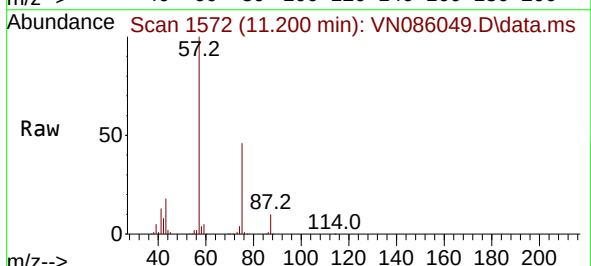
Acq: 21 Mar 2025 18:54

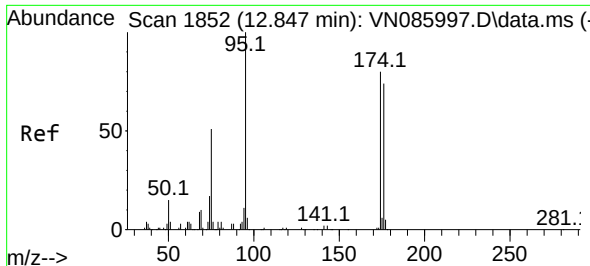
Tgt Ion: 43 Resp: 54175

Ion Ratio Lower Upper

43 100

58 24.5 32.4 97.2#

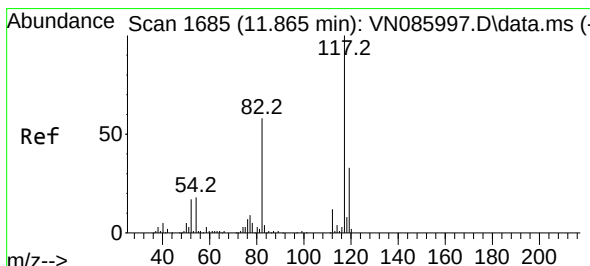
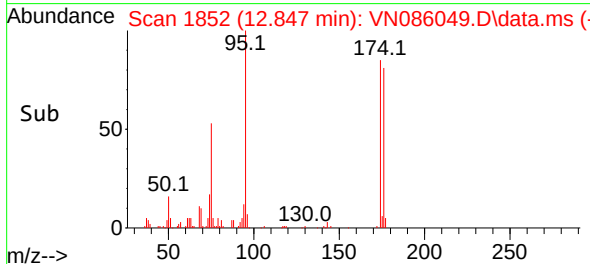
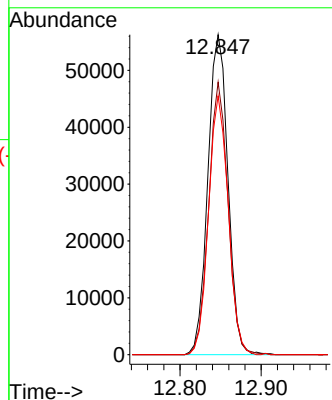
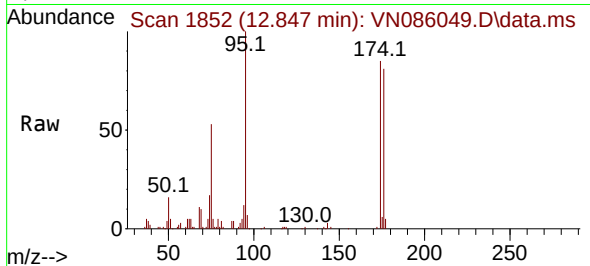




#62
4-Bromofluorobenzene
Concen: 42.582 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

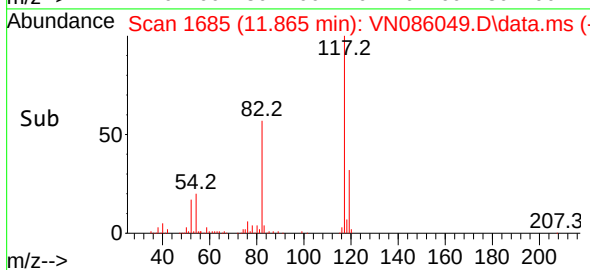
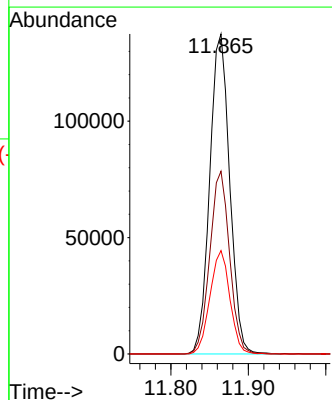
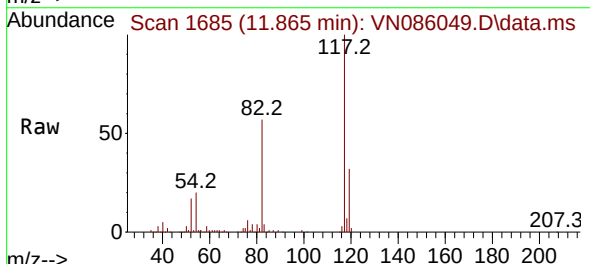
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

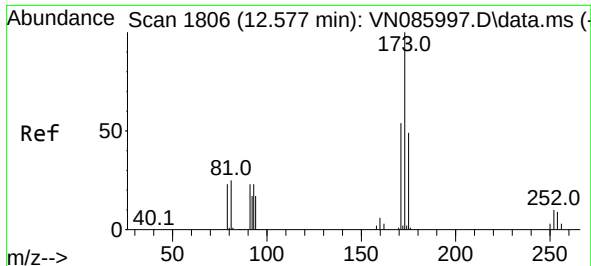
Tgt Ion: 95 Resp: 96802
Ion Ratio Lower Upper
95 100
174 82.0 0.0 156.8
176 79.2 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 117 Resp: 245766
Ion Ratio Lower Upper
117 100
82 57.1 46.7 70.1
119 32.3 26.5 39.7

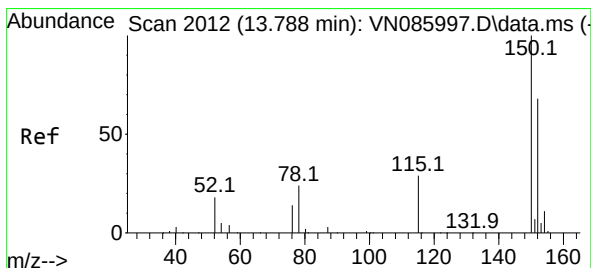
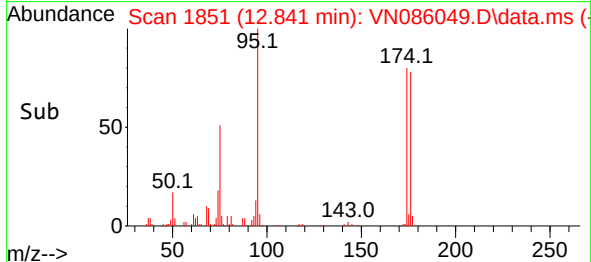
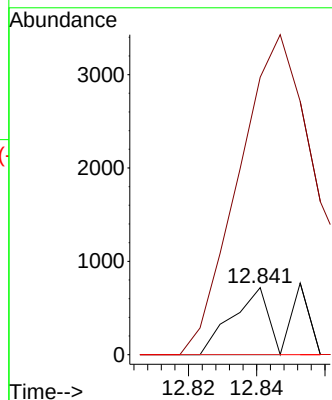
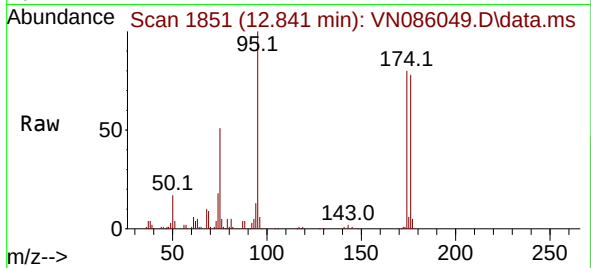




#71
Bromoform
Concen: 0.302 ug/l
RT: 12.841 min Scan# 11
Delta R.T. 0.264 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

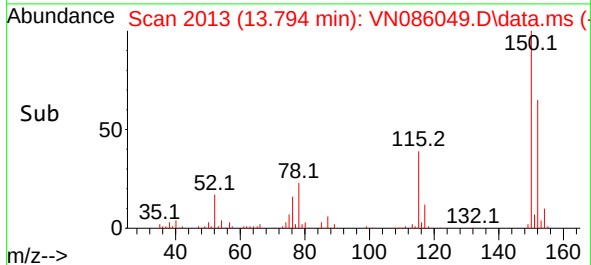
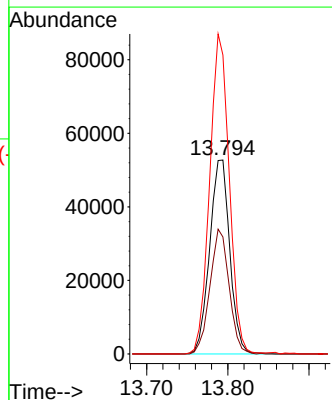
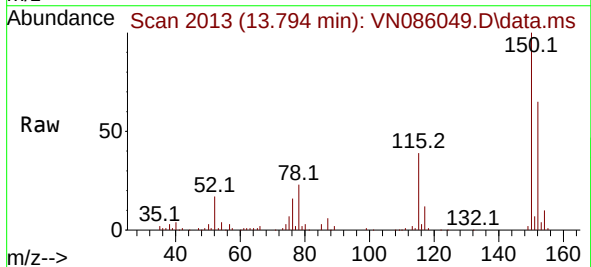
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

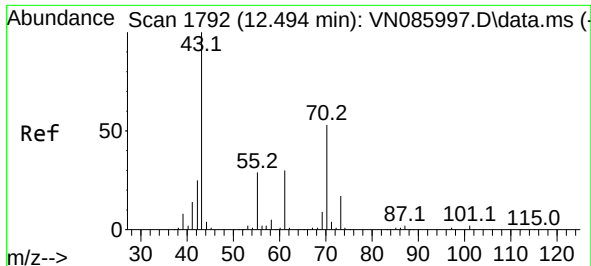
Tgt Ion:173 Resp: 527
Ion Ratio Lower Upper
173 100
175 835.1 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion:152 Resp: 90956
Ion Ratio Lower Upper
152 100
115 61.1 31.1 93.2
150 159.6 0.0 359.6

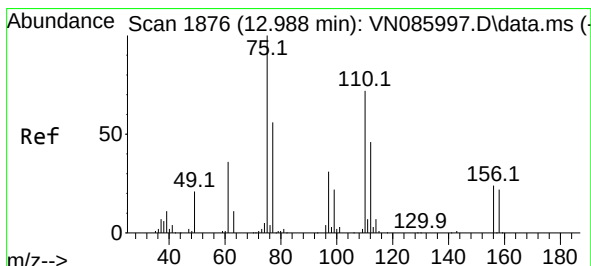
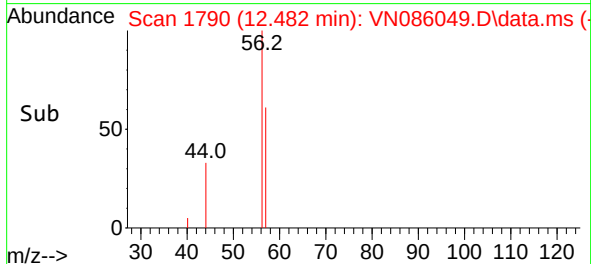
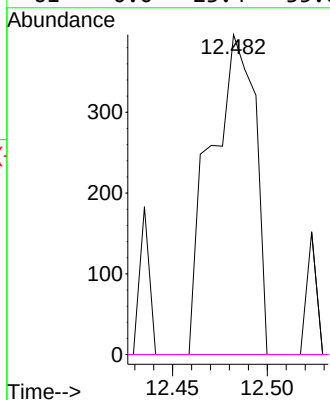
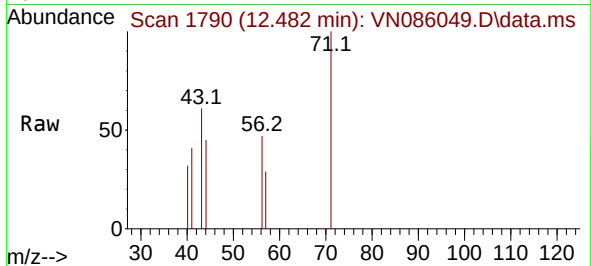




#74
N-amy1 acetate
Concen: 0.312 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

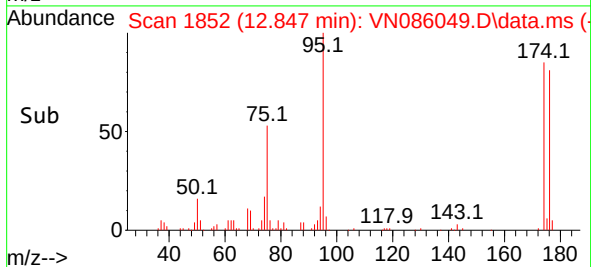
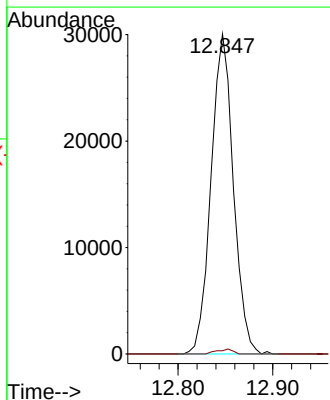
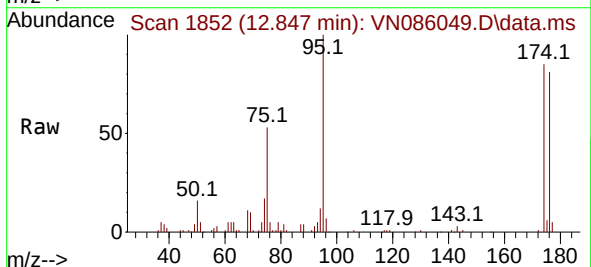
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

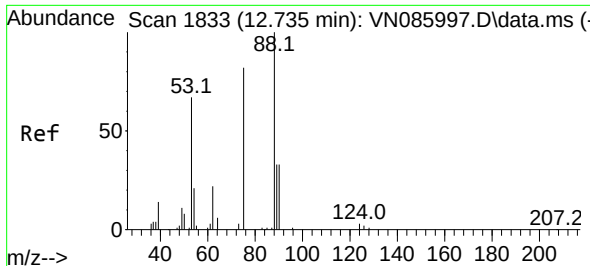
Tgt Ion: 43	Resp: 648
Ion Ratio	Lower Upper
43 100	
70 0.0	43.0 64.4#
55 0.0	23.8 35.8#
61 0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 24.196 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 75	Resp: 49272
Ion Ratio	Lower Upper
75 100	
77 1.1	83.7 251.0#

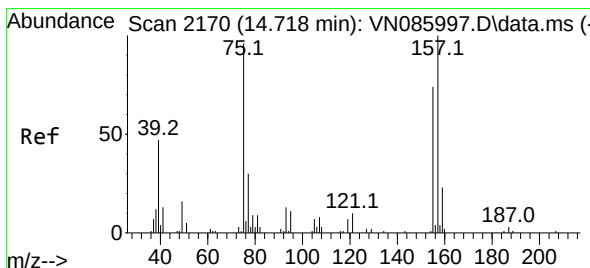
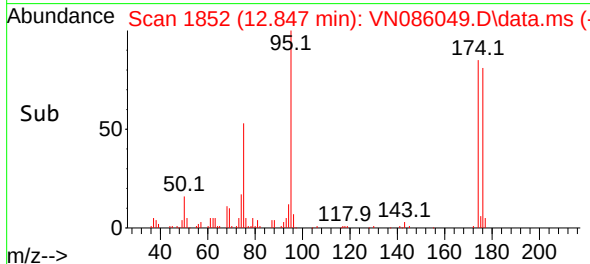
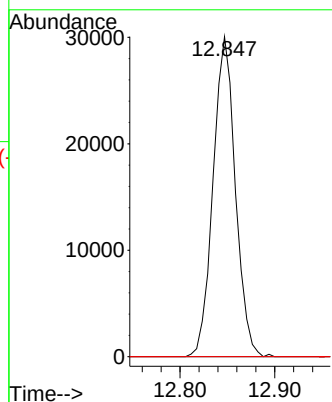
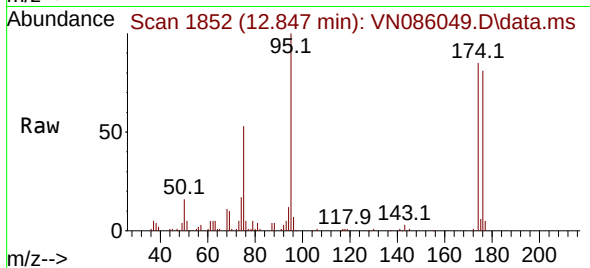




#81
trans-1,4-Dichloro-2-butene
Concen: 63.971 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#09

Tgt Ion: 75 Resp: 49272
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.293 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.024 min
Lab File: VN086049.D
Acq: 21 Mar 2025 18:54

Tgt Ion: 75 Resp: 123
Ion Ratio Lower Upper
75 100
155 0.0 41.0 123.0#
157 0.0 53.7 161.1#

