

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086102.D
 Acq On : 25 Mar 2025 15:52
 Operator : JC\MD
 Sample : PB167276ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#07

Quant Time: Mar 26 03:19:50 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)

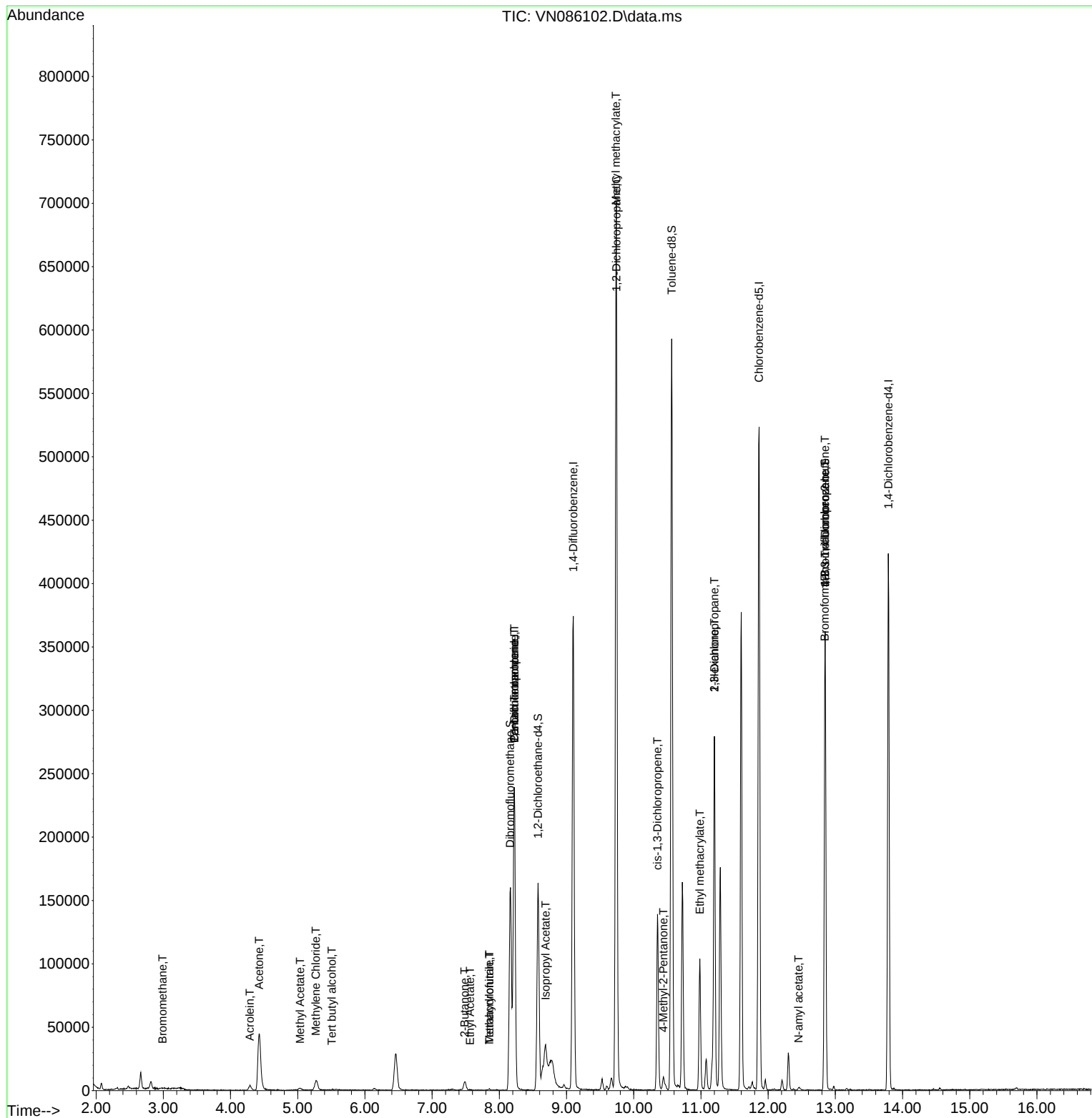
Internal Standards						
1) Pentafluorobenzene	8.224	168	175996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	332858	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	317156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120077	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134096	55.642	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.280%			
35) Dibromofluoromethane	8.159	113	117795	50.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.565	98	423135	50.182	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.360%			
62) 4-Bromofluorobenzene	12.847	95	127947	42.548	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.100%			
Target Compounds						Qvalue
5) Bromomethane	2.989	94	322	0.226	ug/l #	4
11) Tert butyl alcohol	5.506	59	570	1.671	ug/l #	73
13) Acrolein	4.289	56	149	0.409	ug/l #	74
16) Acetone	4.424	43	85533	116.170	ug/l	100
18) Methyl Acetate	5.036	43	3329	1.827	ug/l #	69
20) Methylene Chloride	5.271	84	6771	3.144	ug/l	98
25) 2-Butanone	7.483	43	11684	10.998	ug/l	90
29) Tetrahydrofuran	7.853	42	659	1.005	ug/l #	49
36) 1,1-Dichloropropene	8.224	75	14286	4.670	ug/l #	49
37) Ethyl Acetate	7.565	43	696	0.270	ug/l #	64
38) Carbon Tetrachloride	8.224	117	17890	4.448	ug/l #	18
41) Methacrylonitrile	7.853	41	286	0.232	ug/l #	24
43) Isopropyl Acetate	8.689	43	55414	9.908	ug/l #	65
45) 1,2-Dichloropropane	9.741	63	845	0.387	ug/l #	44
48) Methyl methacrylate	9.736	41	61881	33.530	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	10188	4.131	ug/l #	73
54) cis-1,3-Dichloropropene	10.353	75	25696	6.985	ug/l #	68
56) Ethyl methacrylate	10.983	69	971	0.530	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2764	0.723	ug/l #	42
59) 2-Hexanone	11.200	43	50170	27.922	ug/l #	39
71) Bromoform	12.841	173	660	0.293	ug/l #	1
74) N-amyl acetate	12.453	43	1910	0.696	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	63914	23.775	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	63914	62.857	ug/l #	16

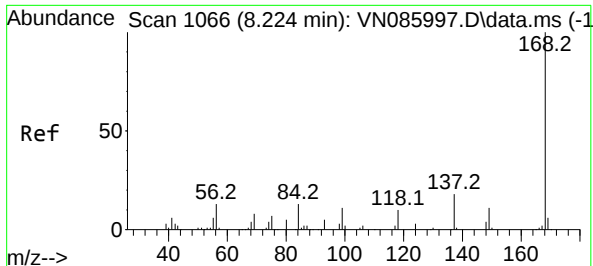
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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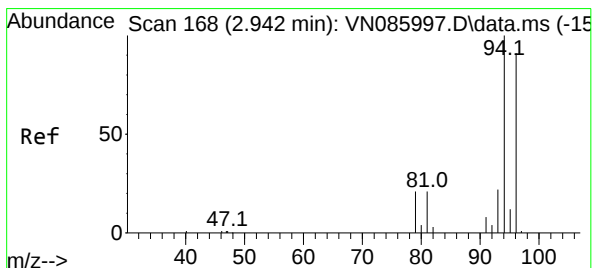
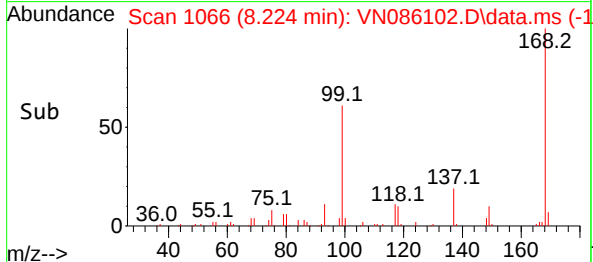
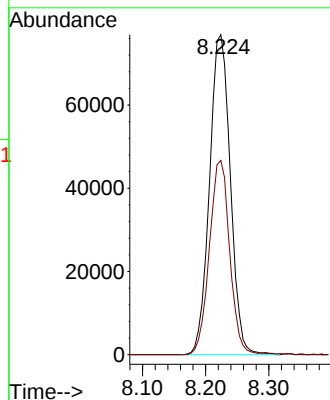
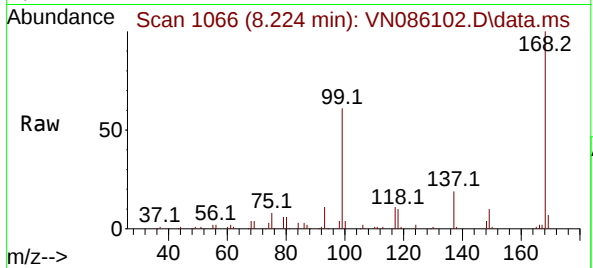




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

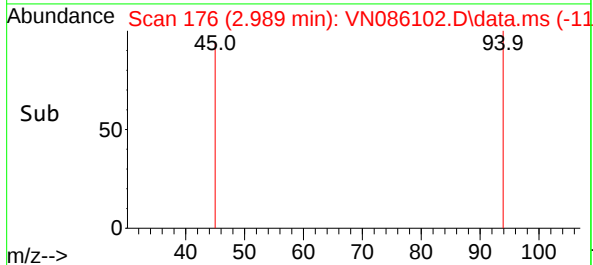
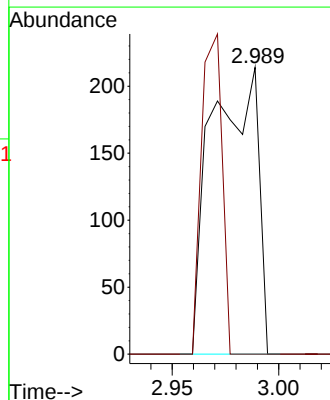
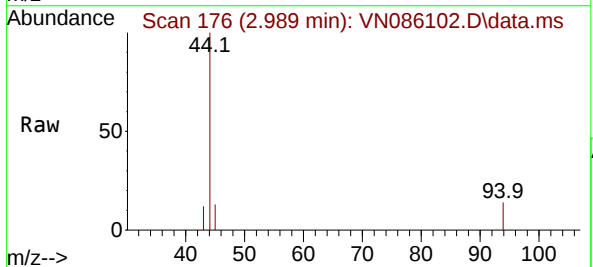
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

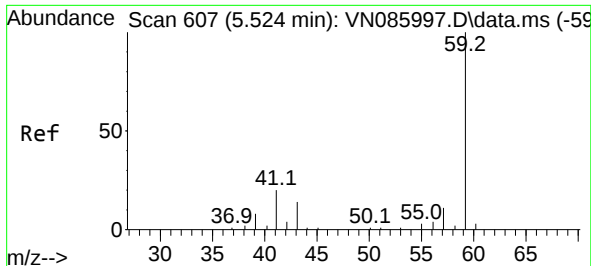
Tgt Ion:168 Resp: 175996
Ion Ratio Lower Upper
168 100
99 60.7 49.4 74.2



#5
Bromomethane
Concen: 0.226 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.047 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 94 Resp: 322
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#

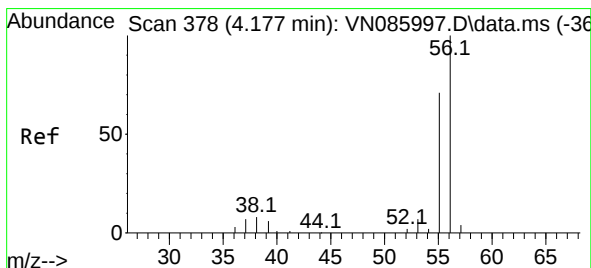
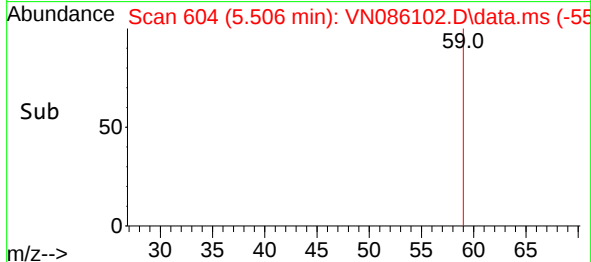
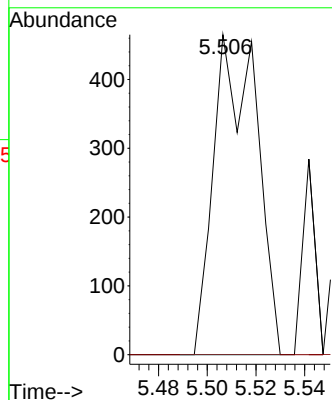
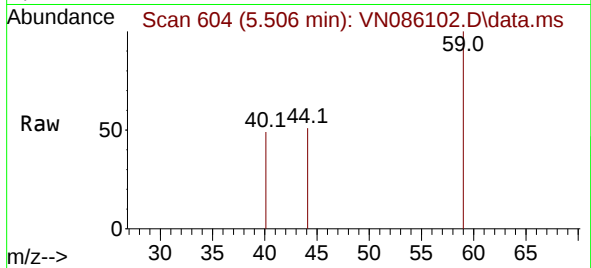




#11
Tert butyl alcohol
Concen: 1.671 ug/l
RT: 5.506 min Scan# 607
Delta R.T. -0.018 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

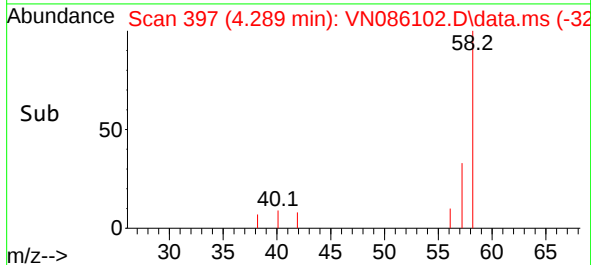
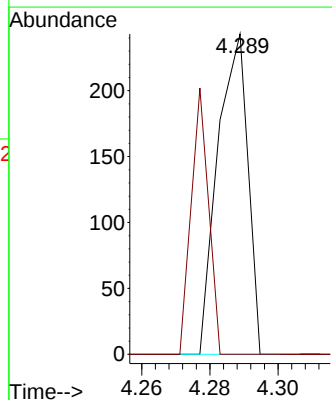
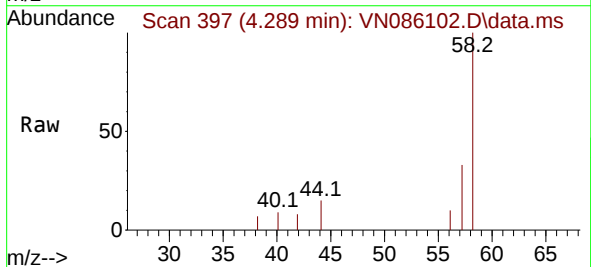
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

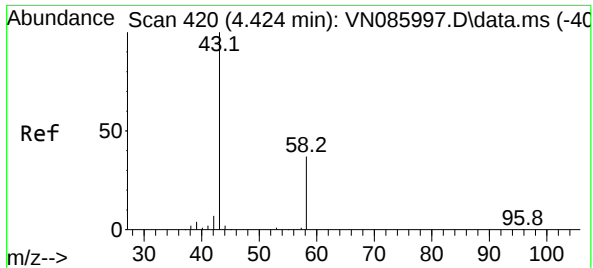
Tgt Ion: 59 Resp: 570
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#13
Acrolein
Concen: 0.409 ug/l
RT: 4.289 min Scan# 397
Delta R.T. 0.112 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 56 Resp: 149
Ion Ratio Lower Upper
56 100
55 47.7 55.1 82.7#

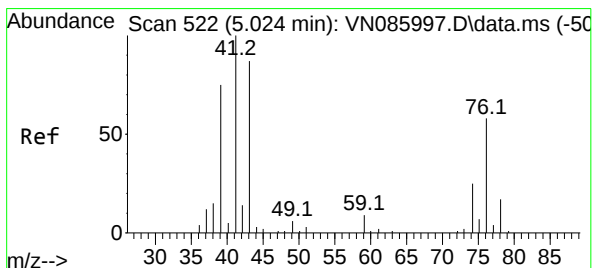
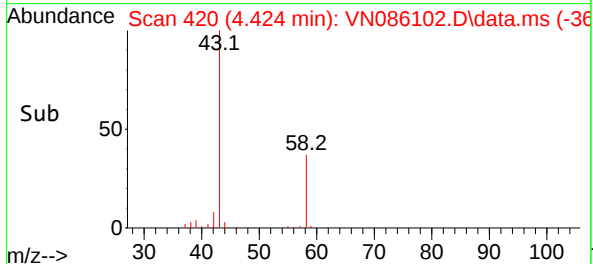
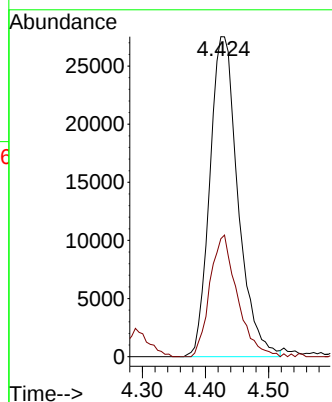
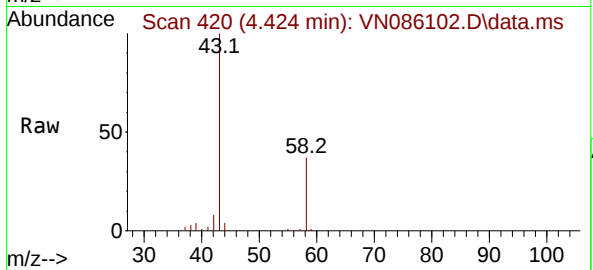




#16
Acetone
Concen: 116.170 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

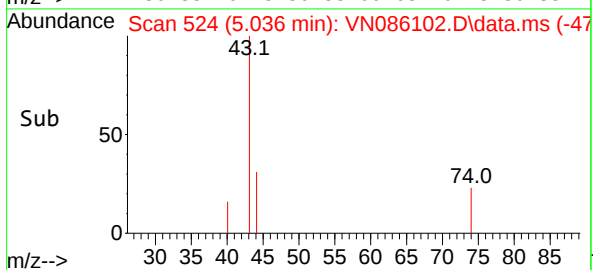
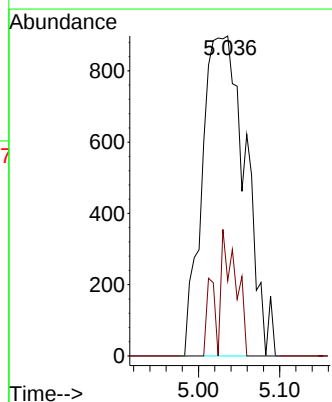
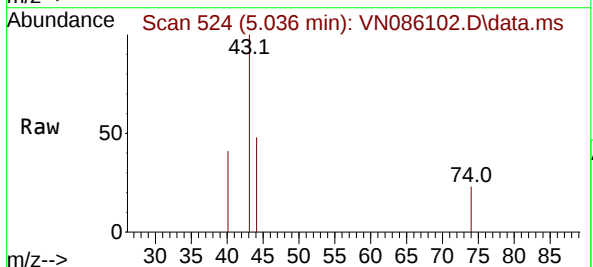
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

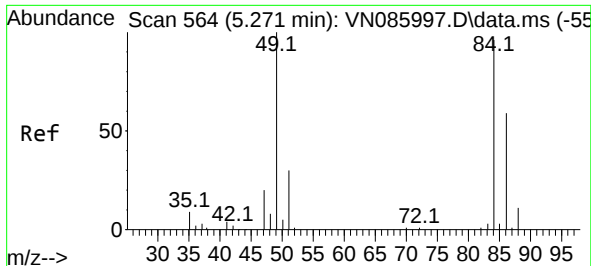
Tgt Ion: 43 Resp: 85533
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.2



#18
Methyl Acetate
Concen: 1.827 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 43 Resp: 3329
Ion Ratio Lower Upper
43 100
74 13.2 23.9 35.9#

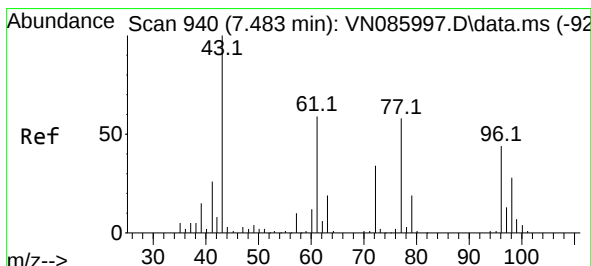
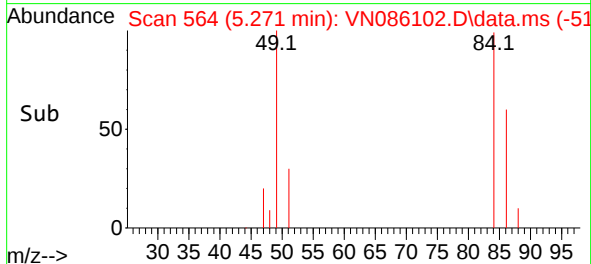
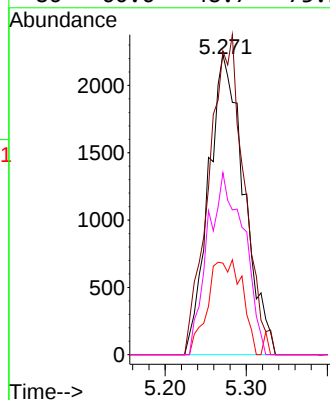
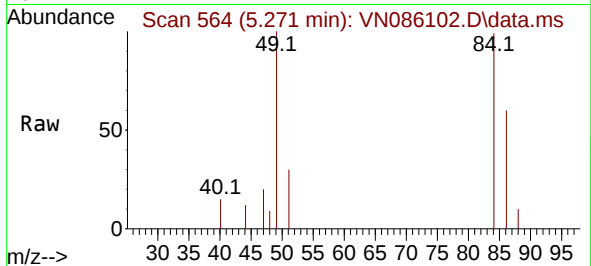




#20
Methylene Chloride
Concen: 3.144 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

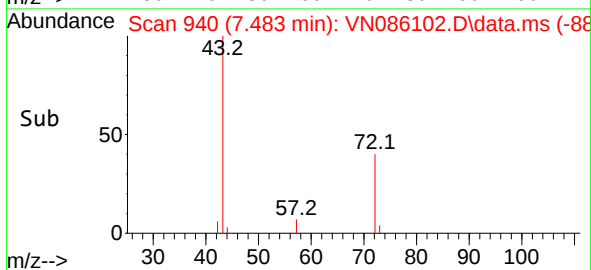
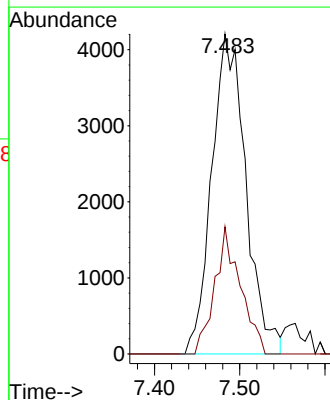
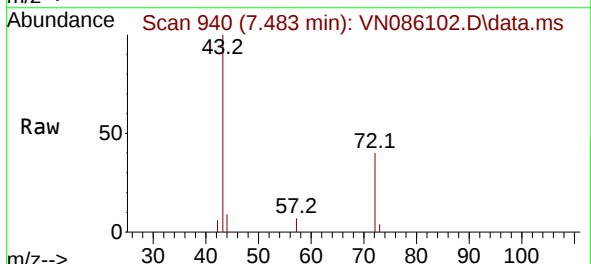
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

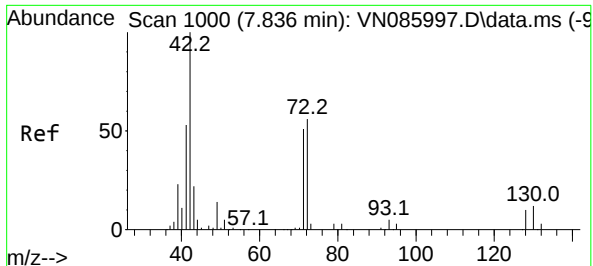
Tgt Ion: 84	Resp: 6771
Ion Ratio	Lower Upper
84 100	
49 101.3	83.3 124.9
51 30.5	24.8 37.2
86 60.6	48.7 73.1



#25
2-Butanone
Concen: 10.998 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 43	Resp: 11684		
Ion Ratio	Lower	Upper	
43 100			
72 39.7	27.4	41.0	





#29

Tetrahydrofuran

Concen: 1.005 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.018 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#07

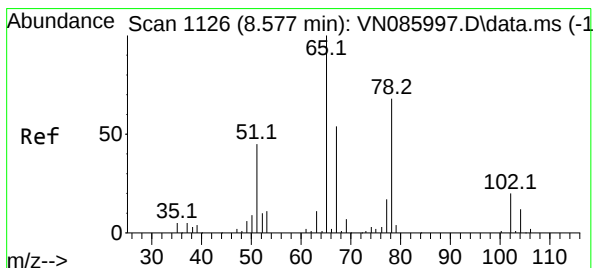
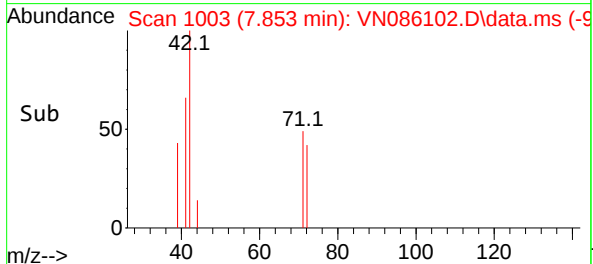
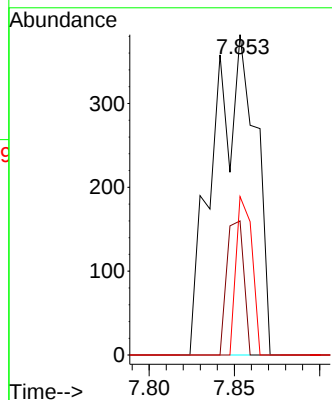
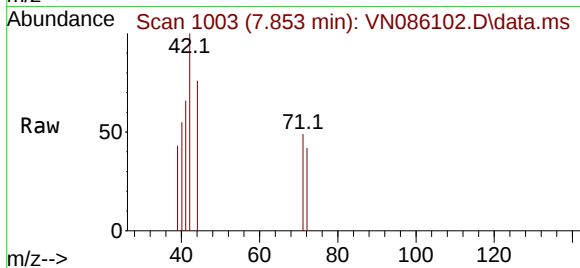
Tgt Ion: 42 Resp: 659

Ion Ratio Lower Upper

42 100

72 16.8 45.0 67.4#

71 18.7 41.9 62.9#



#33

1,2-Dichloroethane-d4

Concen: 55.642 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086102.D

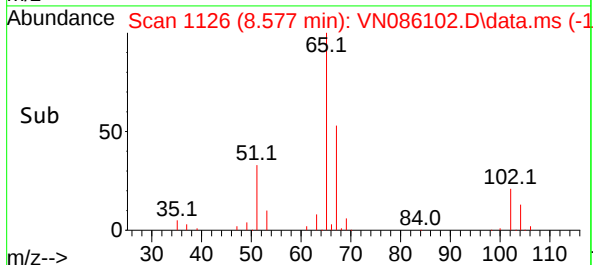
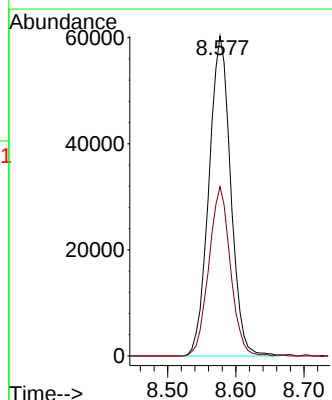
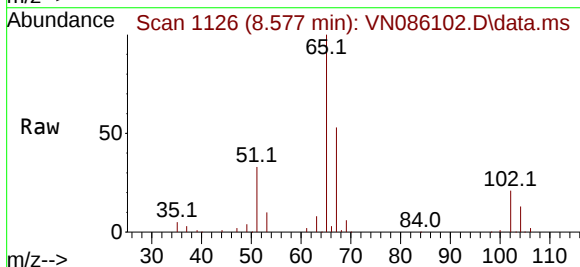
Acq: 25 Mar 2025 15:52

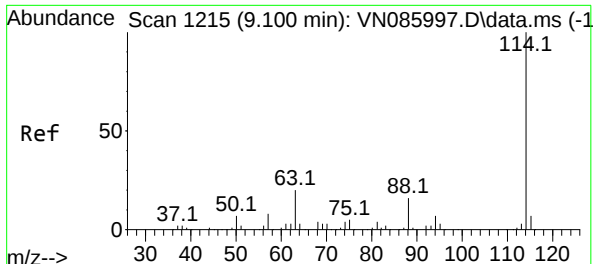
Tgt Ion: 65 Resp: 134096

Ion Ratio Lower Upper

65 100

67 52.4 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

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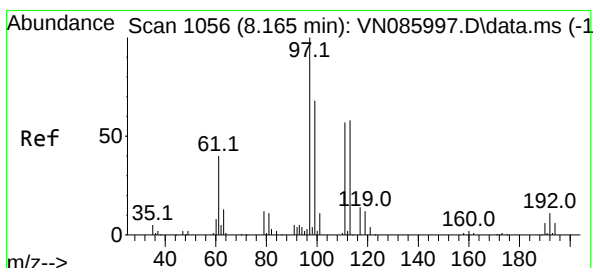
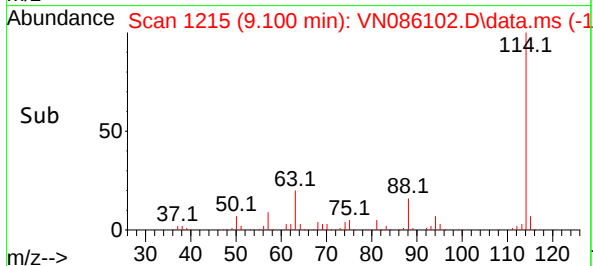
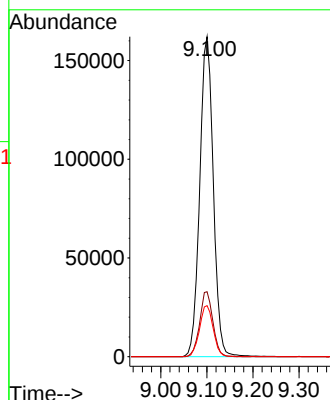
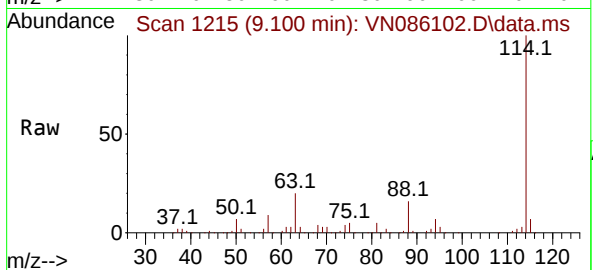
Tgt Ion:114 Resp: 332858

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 15.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.701 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

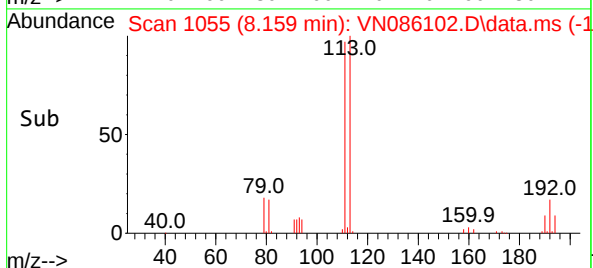
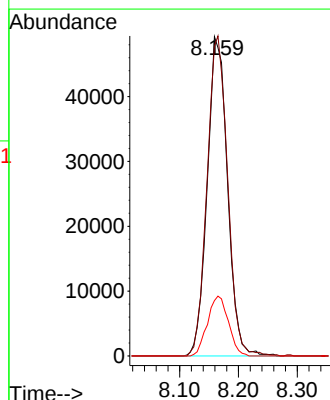
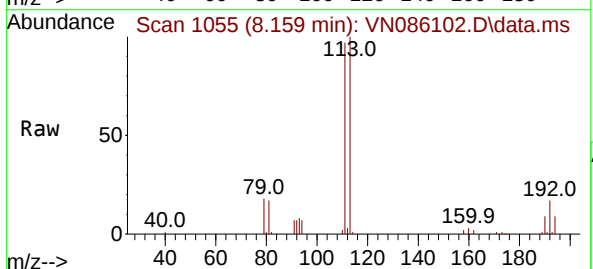
Tgt Ion:113 Resp: 117795

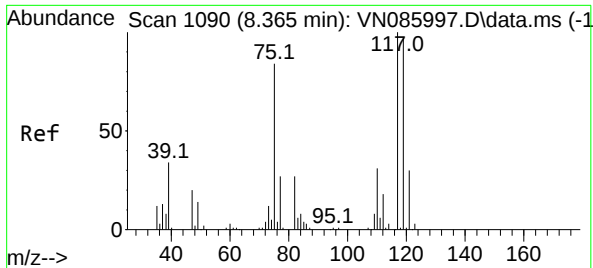
Ion Ratio Lower Upper

113 100

111 101.5 81.8 122.8

192 19.3 15.9 23.9

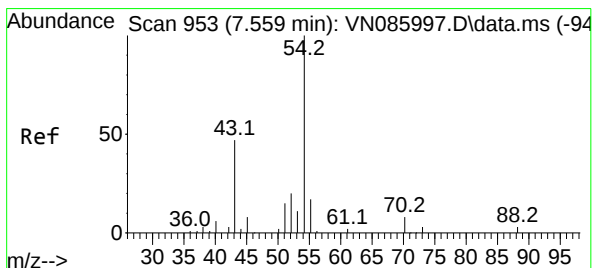
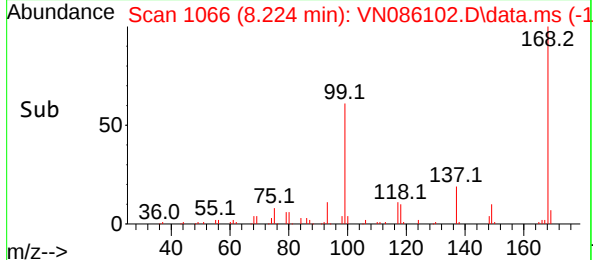
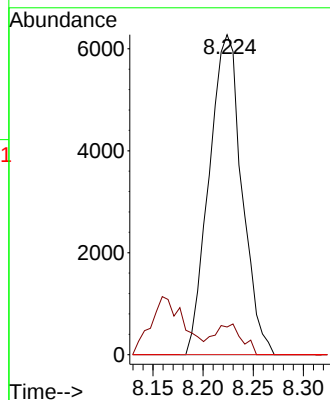
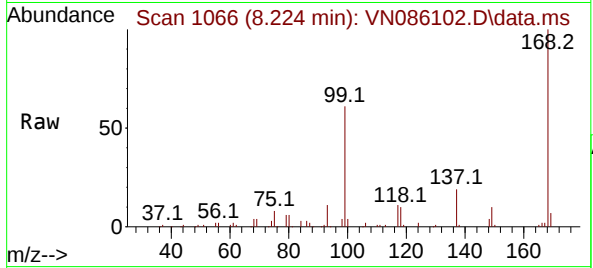




#36
1,1-Dichloropropene
Concen: 4.670 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

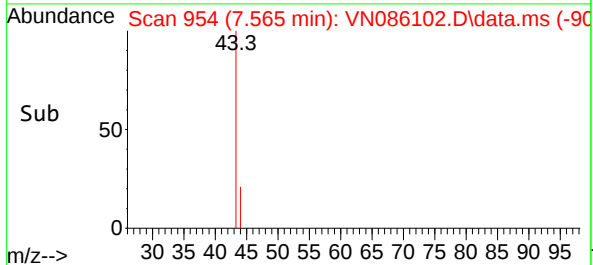
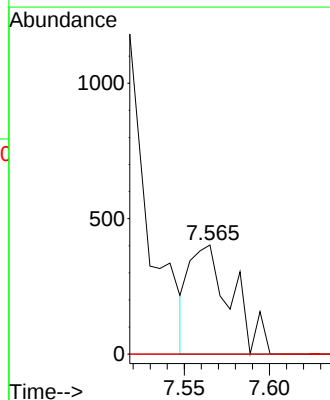
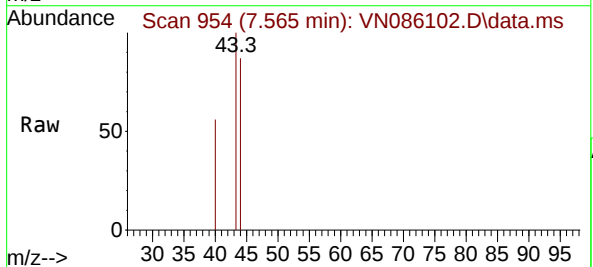
Instrument :
MSVOA_N
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PB167276ZHE#07

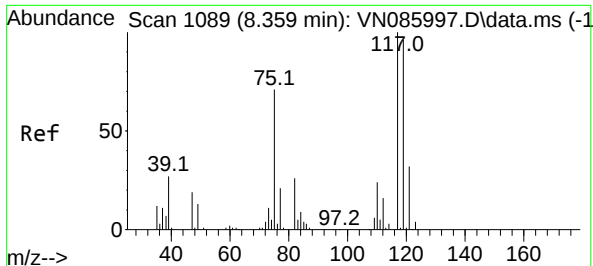
Tgt Ion: 75 Resp: 14286
Ion Ratio Lower Upper
75 100
110 8.2 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.270 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 43 Resp: 696
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 11.0 16.6#

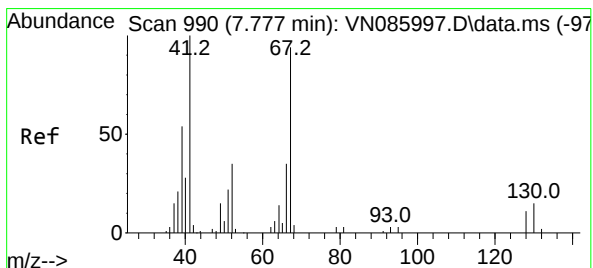
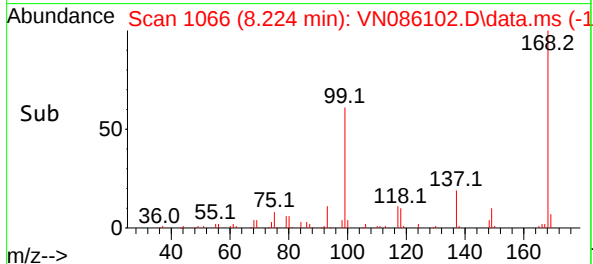
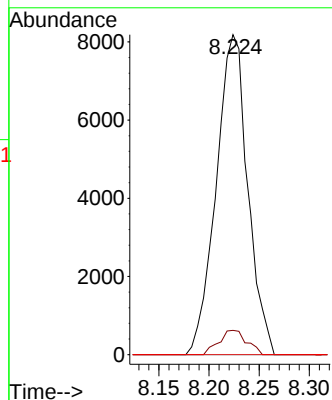
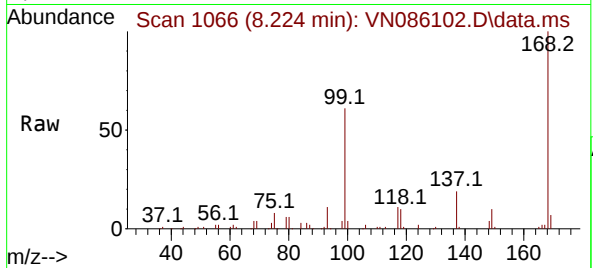




#38
Carbon Tetrachloride
Concen: 4.448 ug/l
RT: 8.224 min Scan# 1000
Delta R.T. -0.135 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

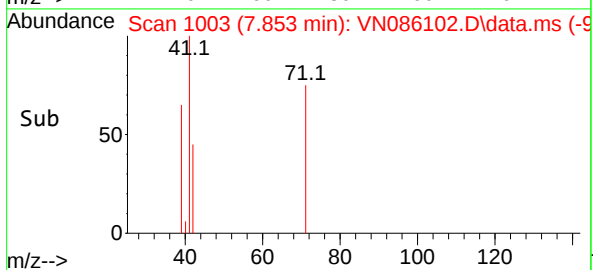
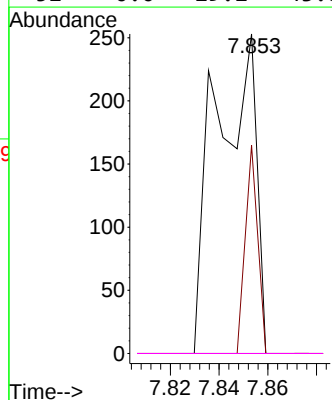
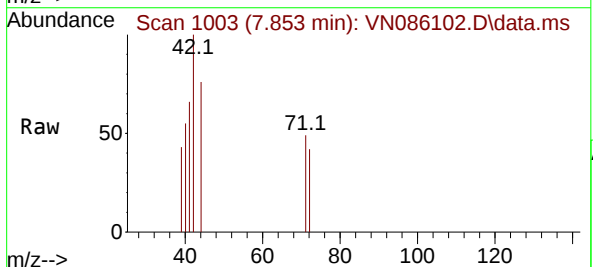
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

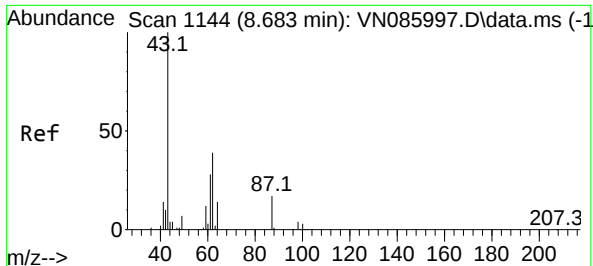
Tgt Ion:117 Resp: 17890
Ion Ratio Lower Upper
117 100
119 7.6 77.0 115.4#
121 0.0 25.6 38.4#



#41
Methacrylonitrile
Concen: 0.232 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 41 Resp: 286
Ion Ratio Lower Upper
41 100
39 20.3 46.2 69.2#
67 0.0 75.9 113.9#
52 0.0 29.2 43.8#

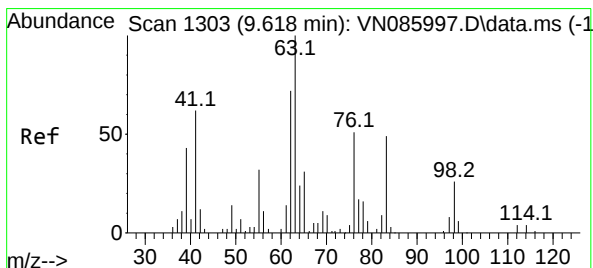
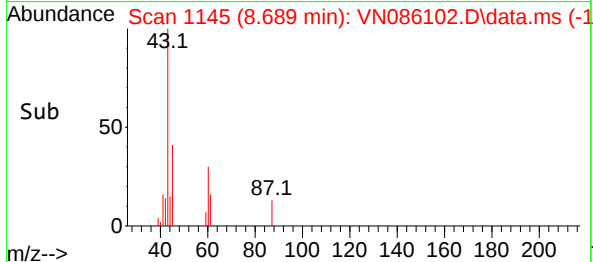
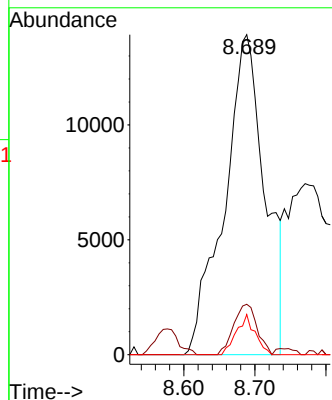
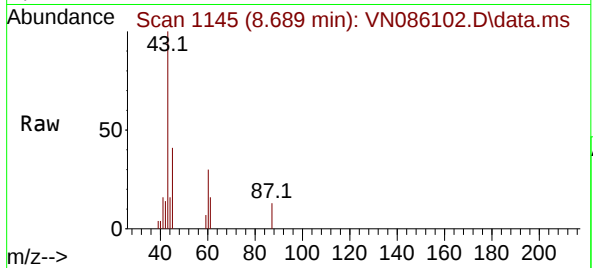




#43
Isopropyl Acetate
Concen: 9.908 ug/l
RT: 8.689 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

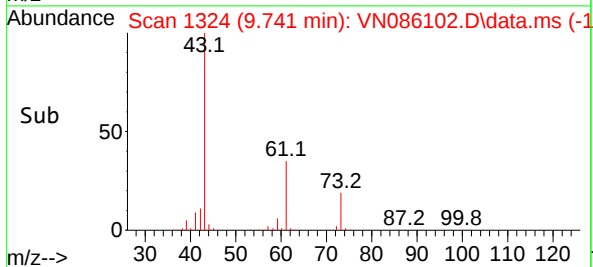
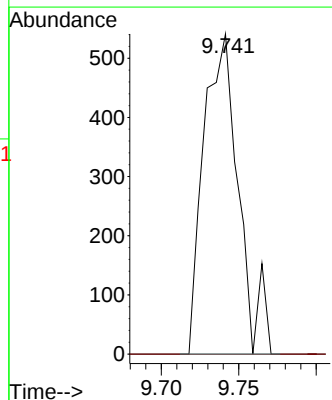
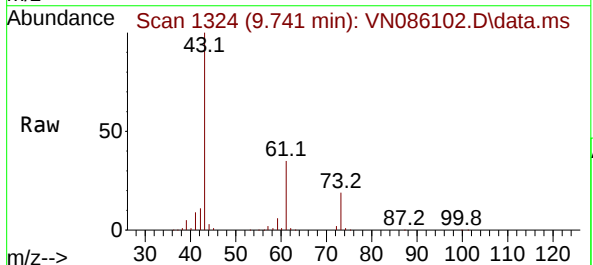
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

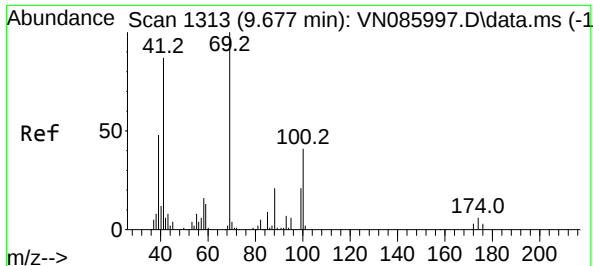
Tgt Ion: 43 Resp: 55414
Ion Ratio Lower Upper
43 100
61 9.1 25.0 37.6#
87 5.7 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.387 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 63 Resp: 845
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 33.530 ug/l

RT: 9.736 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#07

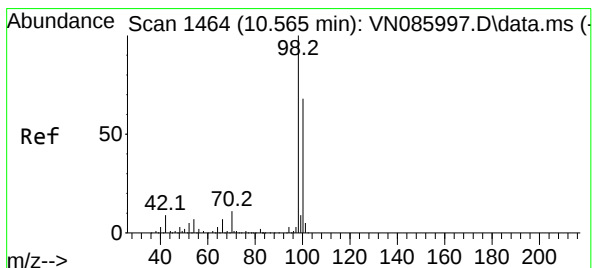
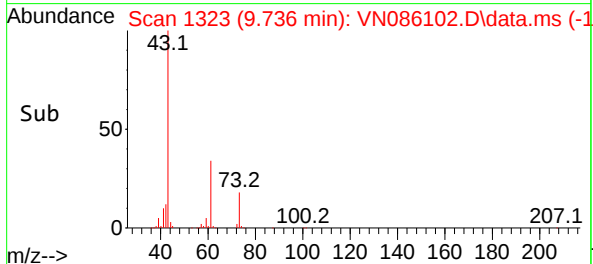
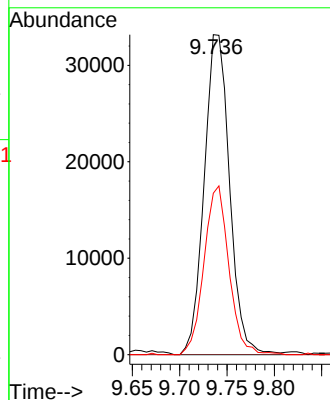
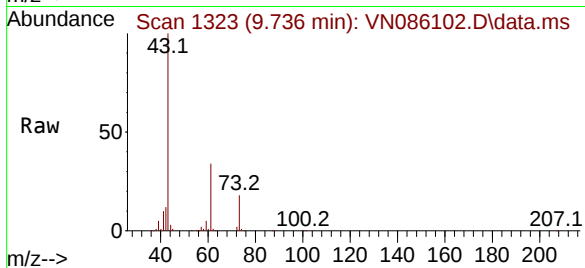
Tgt Ion: 41 Resp: 61881

Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 51.8 45.6 68.4



#50

Toluene-d8

Concen: 50.182 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086102.D

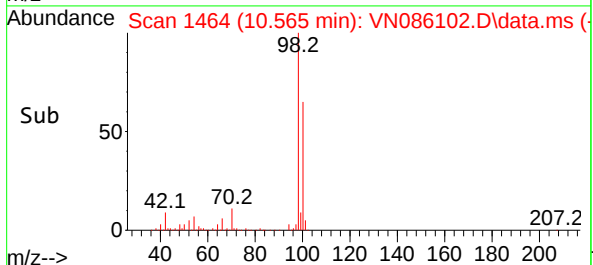
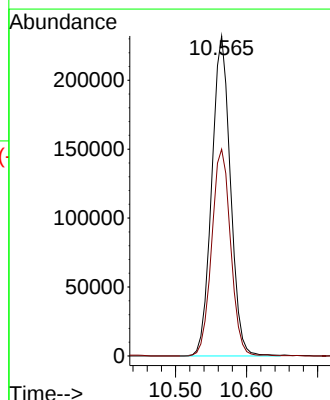
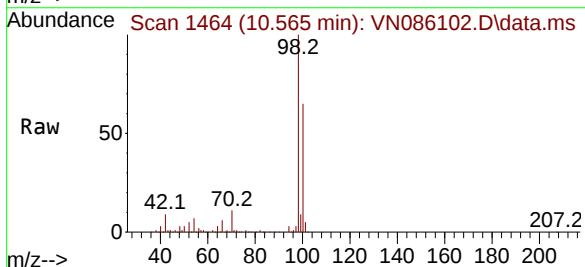
Acq: 25 Mar 2025 15:52

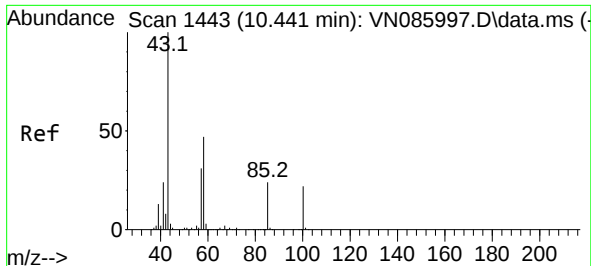
Tgt Ion: 98 Resp: 423135

Ion Ratio Lower Upper

98 100

100 65.5 53.1 79.7

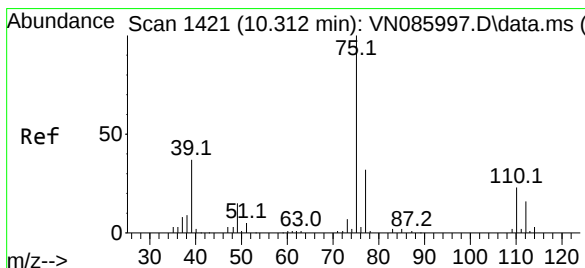
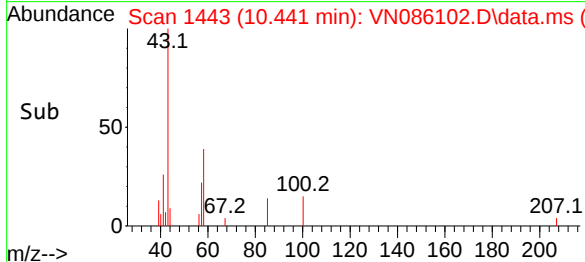
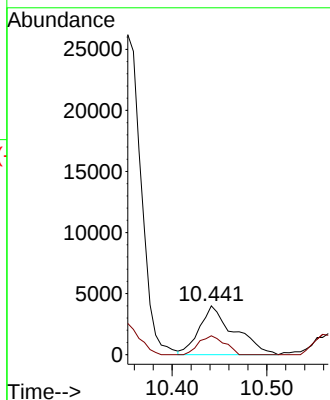
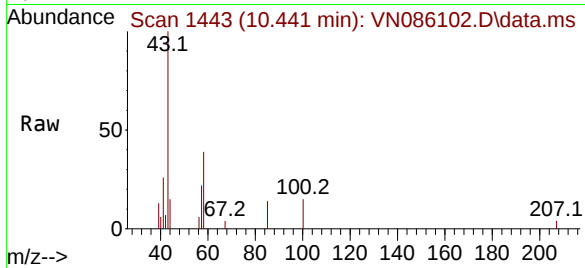




#51
4-Methyl-2-Pentanone
Concen: 4.131 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

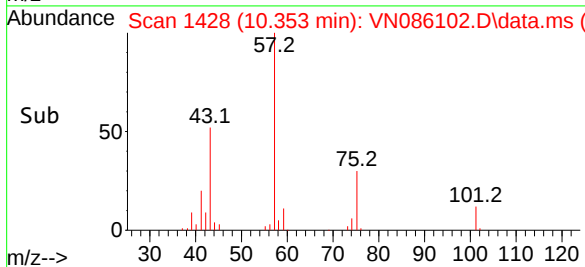
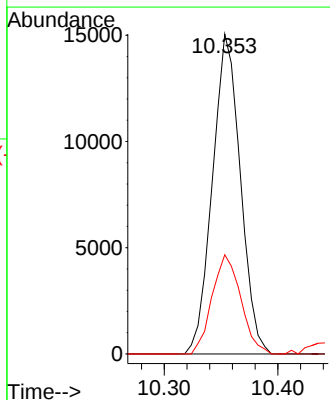
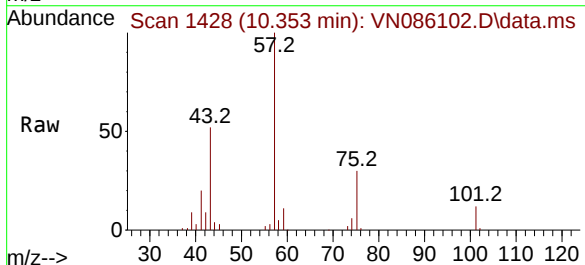
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

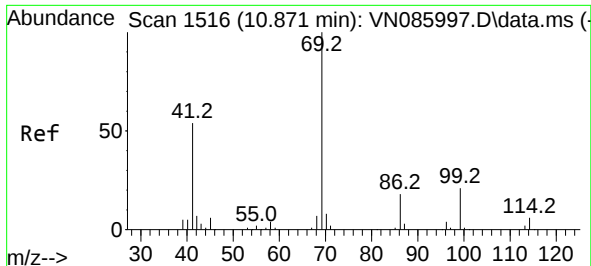
Tgt Ion: 43 Resp: 10188
Ion Ratio Lower Upper
43 100
58 28.8 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 6.985 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 75 Resp: 25696
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 31.0 29.6 44.4

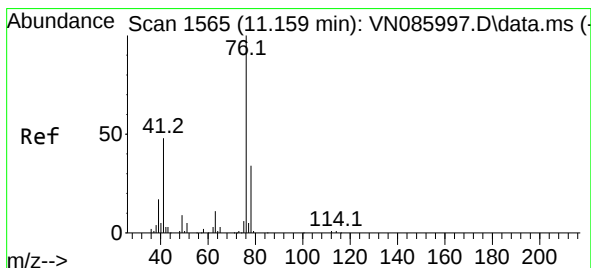
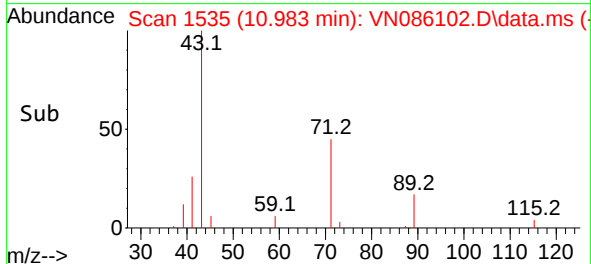
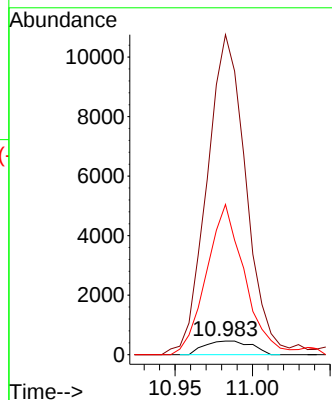
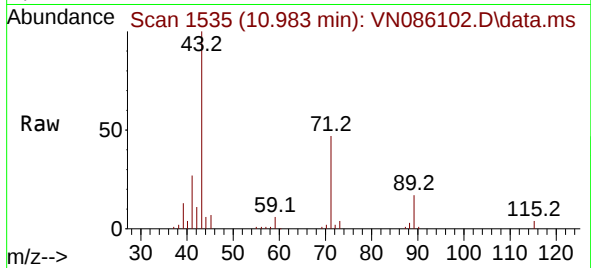




#56
Ethyl methacrylate
Concen: 0.530 ug/l
RT: 10.983 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

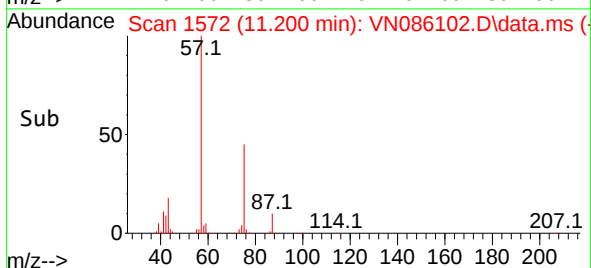
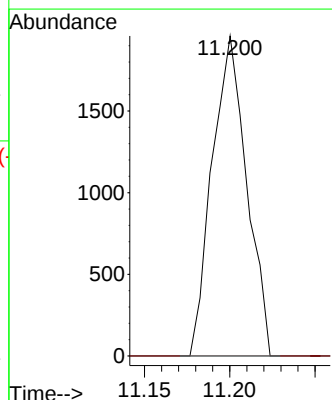
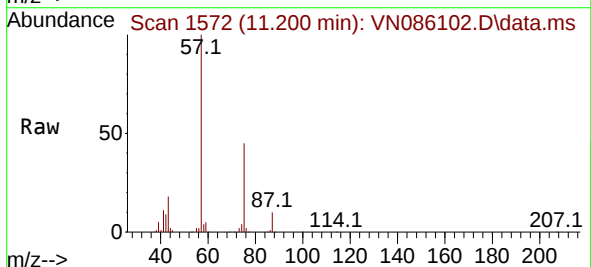
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

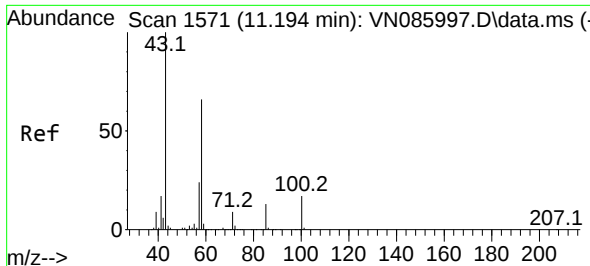
Tgt Ion: 69 Resp: 971
Ion Ratio Lower Upper
69 100
41 1951.1 41.6 62.4#
39 888.3 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 0.723 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 76 Resp: 2764
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

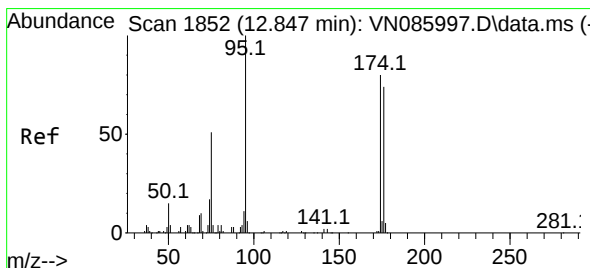
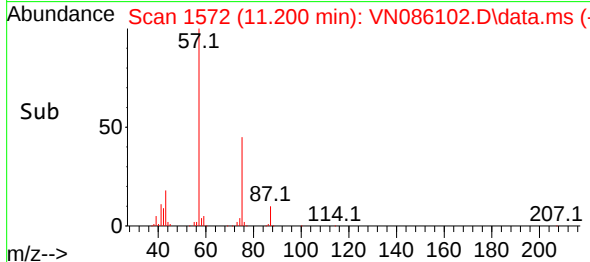
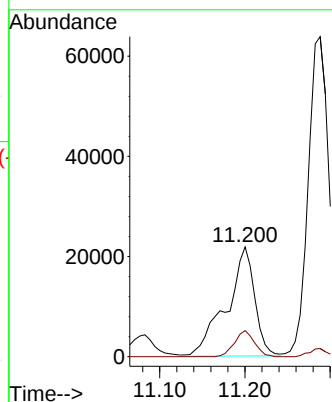
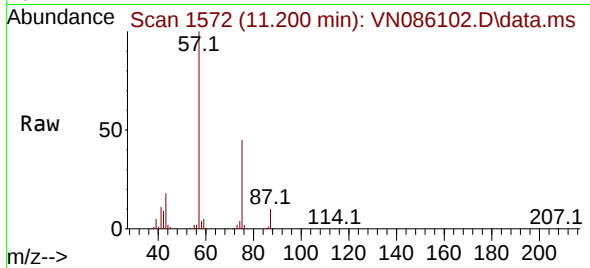




#59
2-Hexanone
Concen: 27.922 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

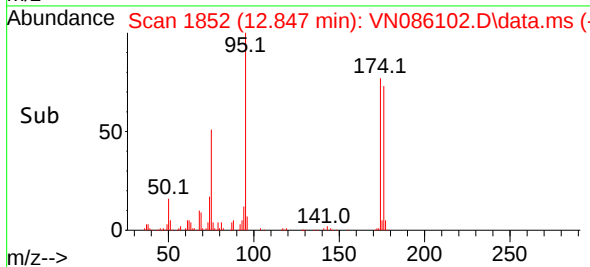
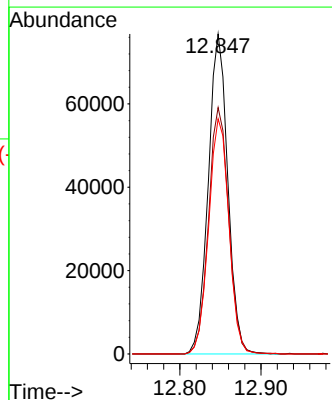
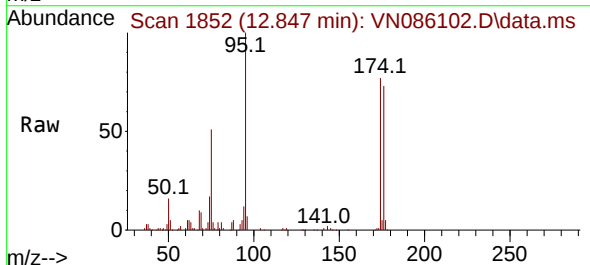
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#07

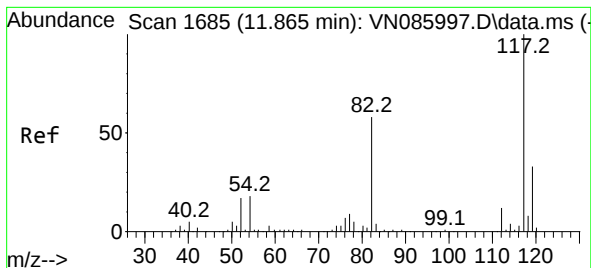
Tgt Ion: 43 Resp: 50170
Ion Ratio Lower Upper
43 100
58 16.9 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 42.548 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086102.D
Acq: 25 Mar 2025 15:52

Tgt Ion: 95 Resp: 127947
Ion Ratio Lower Upper
95 100
174 80.0 0.0 156.8
176 76.3 0.0 152.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

PB167276ZHE#07

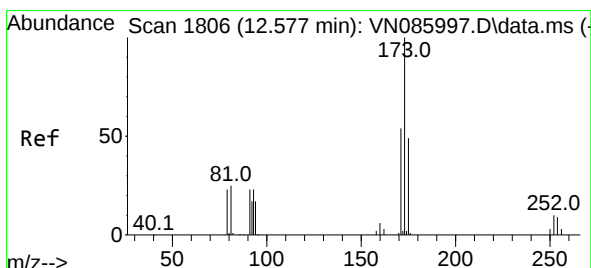
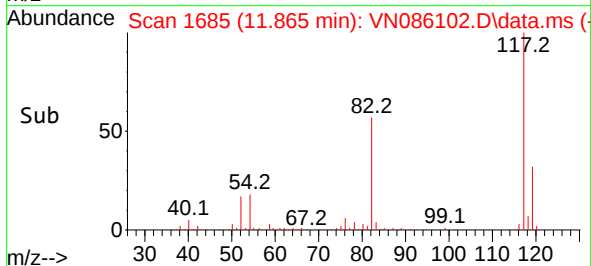
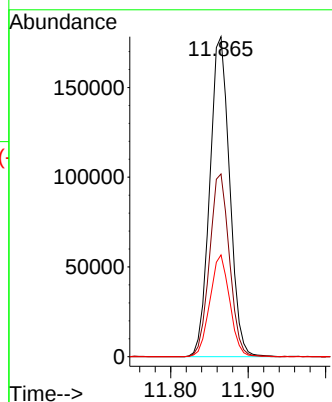
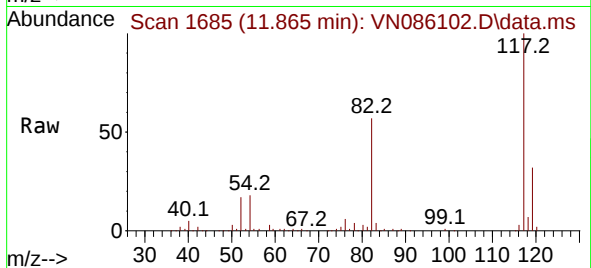
Tgt Ion:117 Resp: 317156

Ion Ratio Lower Upper

117 100

82 57.1 46.7 70.1

119 31.8 26.5 39.7



#71

Bromoform

Concen: 0.293 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.265 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

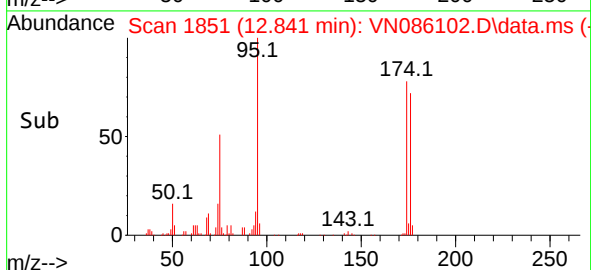
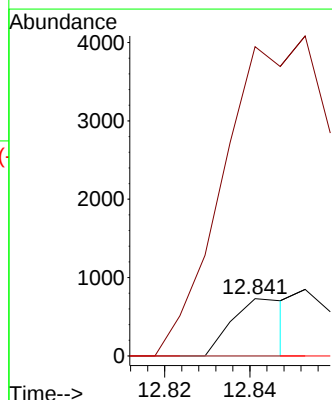
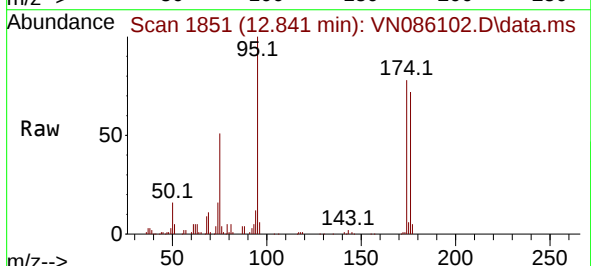
Tgt Ion:173 Resp: 660

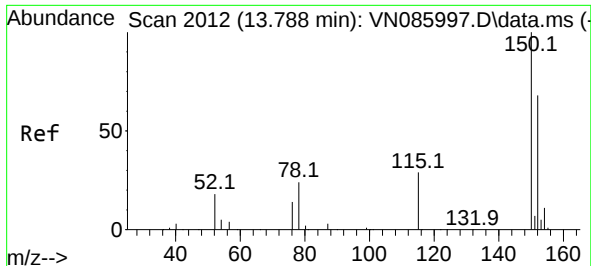
Ion Ratio Lower Upper

173 100

175 650.5 24.3 73.0#

254 0.0 0.0 0.0

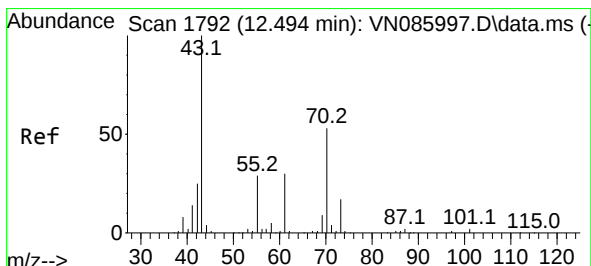
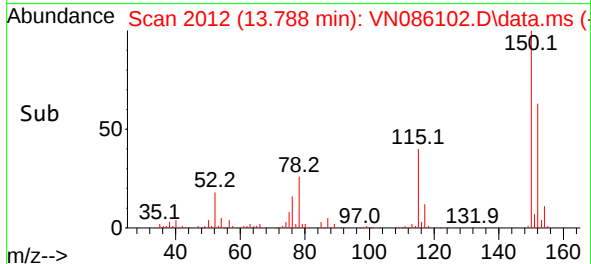
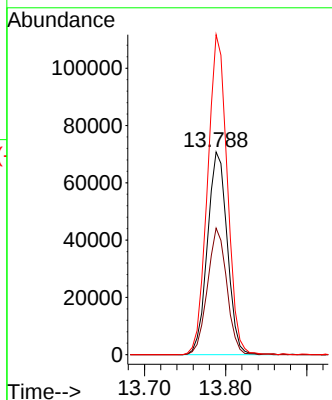
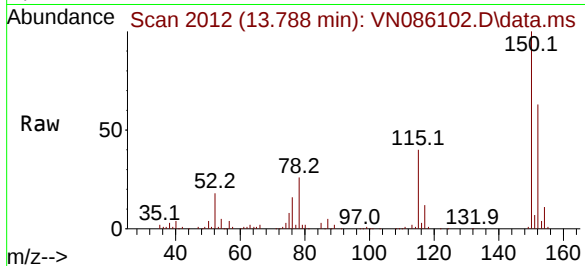




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN086102.D
 Acq: 25 Mar 2025 15:52

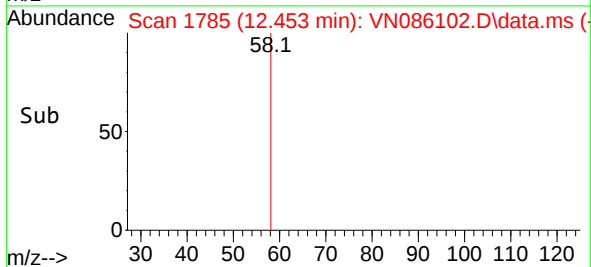
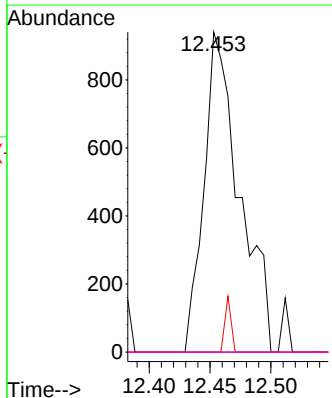
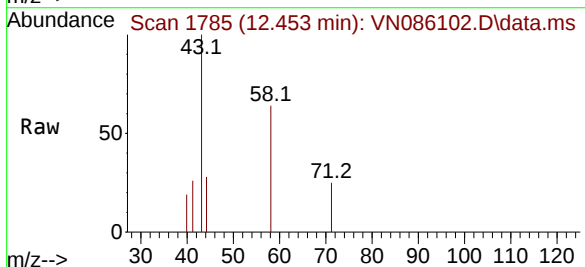
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#07

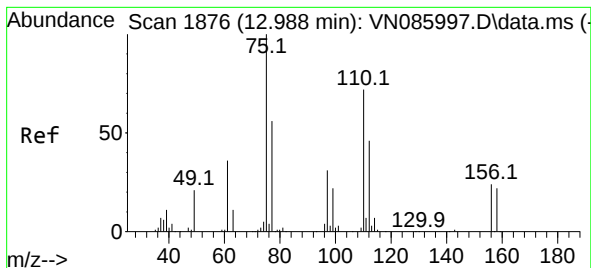
Tgt Ion:152 Resp: 120077
 Ion Ratio Lower Upper
 152 100
 115 60.7 31.1 93.2
 150 156.7 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.696 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.041 min
 Lab File: VN086102.D
 Acq: 25 Mar 2025 15:52

Tgt Ion: 43 Resp: 1910
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 3.0 23.8 35.8#
 61 0.0 23.4 35.0#





#76

1,2,3-Trichloropropane

Concen: 23.775 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

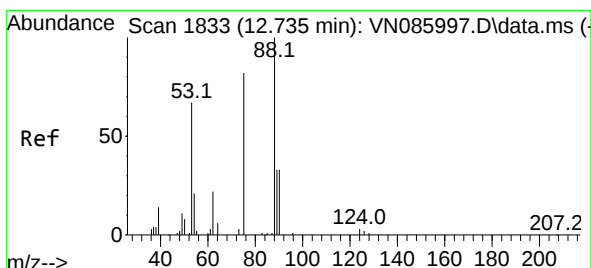
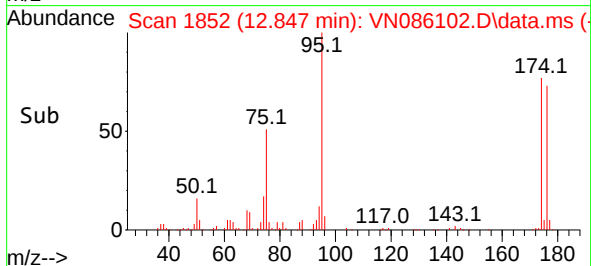
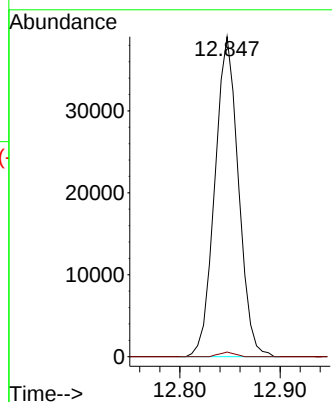
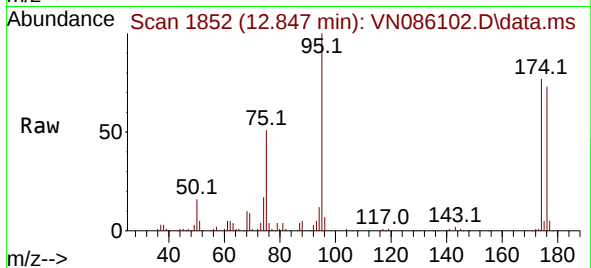
PB167276ZHE#07

Tgt Ion: 75 Resp: 63914

Ion Ratio Lower Upper

75 100

77 1.0 83.7 251.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.857 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086102.D

Acq: 25 Mar 2025 15:52

Tgt Ion: 75 Resp: 63914

Ion Ratio Lower Upper

75 100

53 0.0 66.0 99.0#

89 0.0 36.9 55.3#

