

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031925\
 Data File : VN086012.D
 Acq On : 19 Mar 2025 16:26
 Operator : JC\MD
 Sample : PB167194ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167194ZHE#02

Quant Time: Mar 20 01:33:46 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)

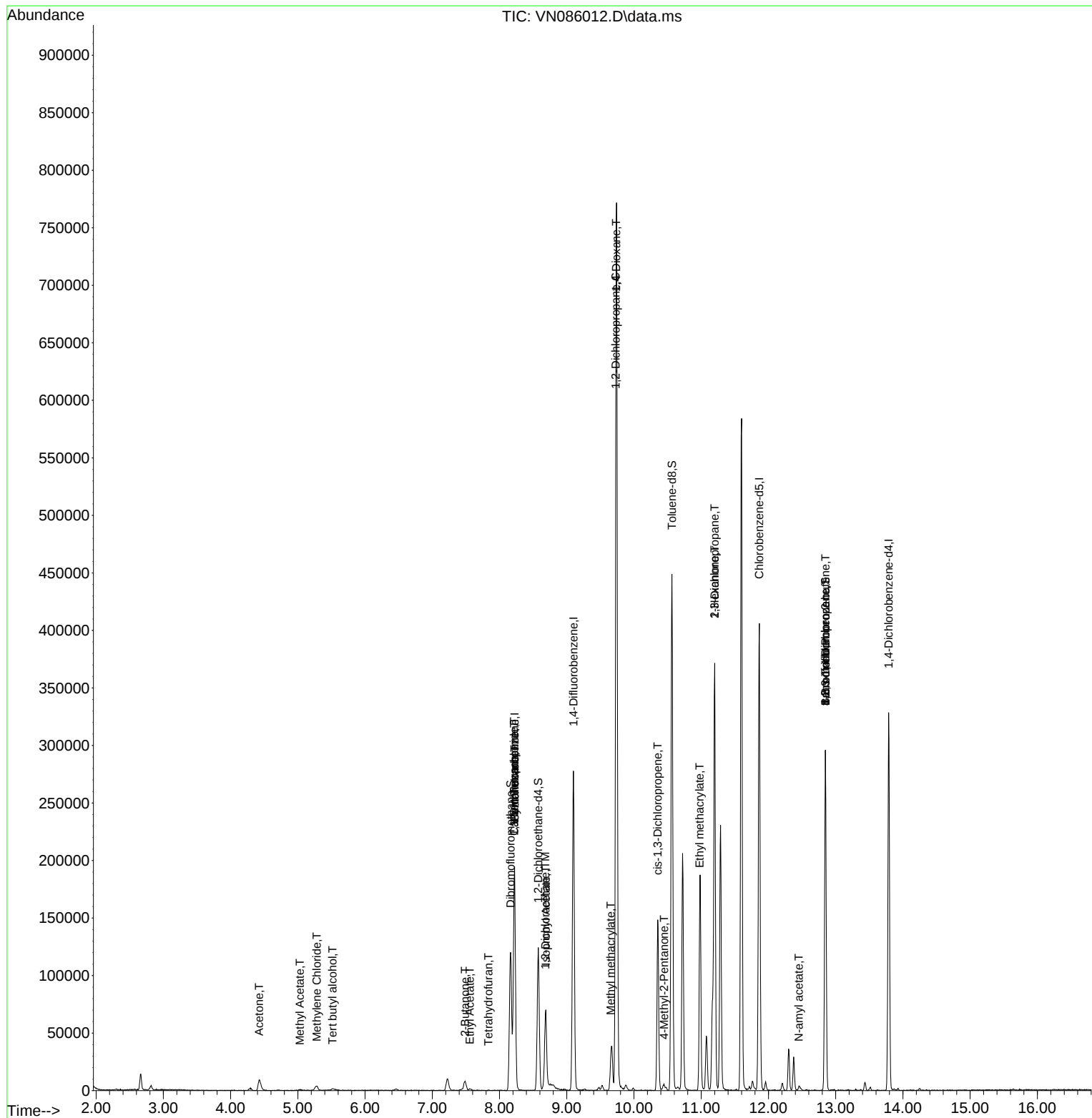
Internal Standards						
1) Pentafluorobenzene	8.224	168	138135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	241700	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	238319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92171	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	102950	54.427	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 108.860%		
35) Dibromofluoromethane	8.165	113	87881	52.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 104.180%		
50) Toluene-d8	10.565	98	318179	51.967	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 103.940%		
62) 4-Bromofluorobenzene	12.847	95	100278	45.924	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 91.840%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	2910	10.866	ug/l #	79
16) Acetone	4.424	43	17676	30.587	ug/l	90
18) Methyl Acetate	5.030	43	1188	0.831	ug/l #	64
20) Methylene Chloride	5.283	84	3446	2.038	ug/l #	82
25) 2-Butanone	7.488	43	13683	16.409	ug/l	97
29) Tetrahydrofuran	7.835	42	272	0.528	ug/l #	24
31) Cyclohexane	8.224	56	2758	1.170	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	10843	4.881	ug/l #	49
37) Ethyl Acetate	7.559	43	2282	1.218	ug/l #	76
38) Carbon Tetrachloride	8.218	117	14810	5.071	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	509	0.209	ug/l #	74
43) Isopropyl Acetate	8.688	43	75469	18.584	ug/l #	88
45) 1,2-Dichloropropane	9.729	63	1189	0.750	ug/l #	44
48) Methyl methacrylate	9.653	41	3429	2.559	ug/l #	33
49) 1,4-Dioxane	9.735	88	55	1.736	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	6175	3.448	ug/l #	61
54) cis-1,3-Dichloropropene	10.353	75	28699	10.744	ug/l #	66
56) Ethyl methacrylate	10.976	69	1514	0.922	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4397	1.585	ug/l #	42
59) 2-Hexanone	11.200	43	50083	38.386	ug/l #	56
71) Bromoform	12.847	173	864	0.510	ug/l #	1
74) N-amyl acetate	12.453	43	3191	1.515	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	51751	25.079	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	51751	66.304	ug/l #	16

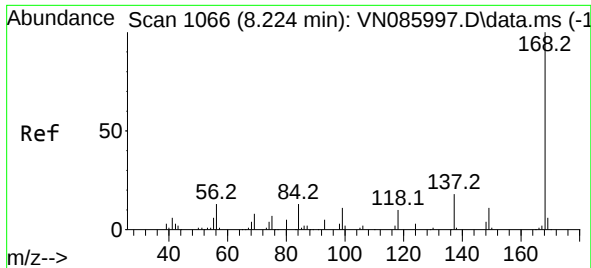
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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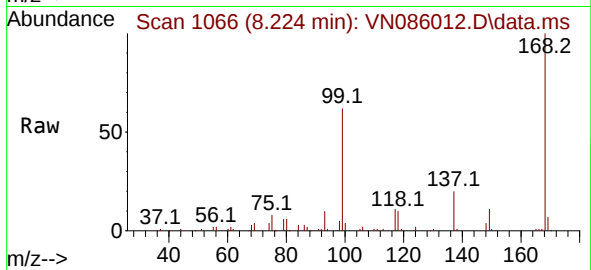
Quant Time: Mar 20 01:33:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
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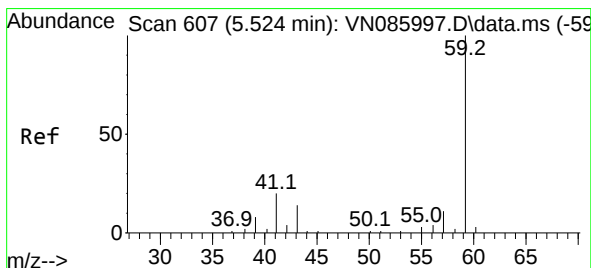
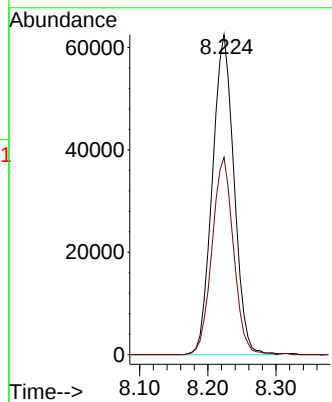
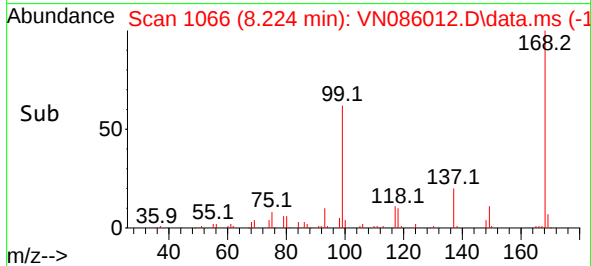


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

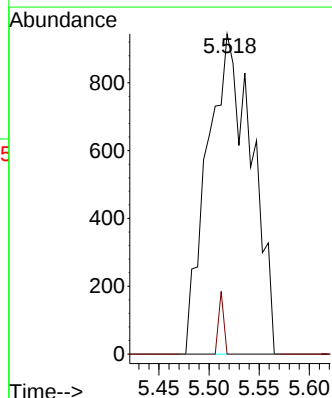
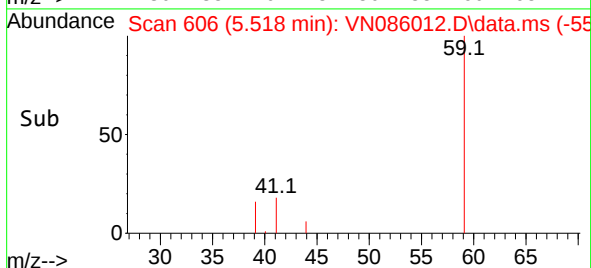
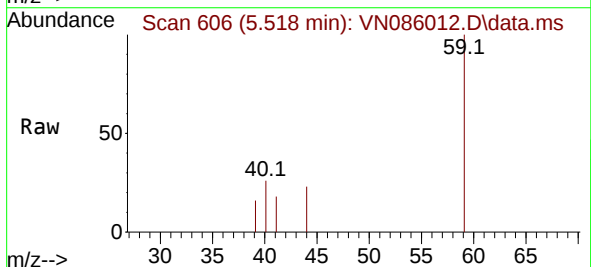


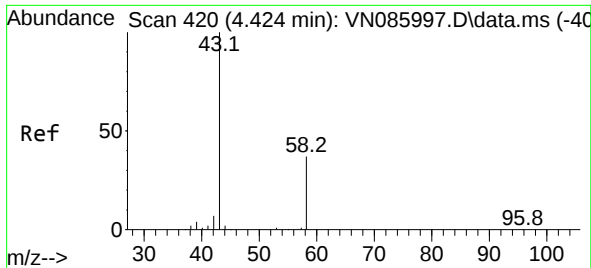
Tgt Ion:168 Resp: 138135
Ion Ratio Lower Upper
168 100
99 61.7 49.4 74.2



#11
Tert butyl alcohol
Concen: 10.866 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 59 Resp: 2910
Ion Ratio Lower Upper
59 100
57 2.2 7.9 11.9#

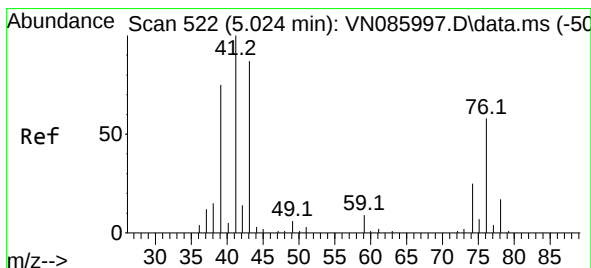
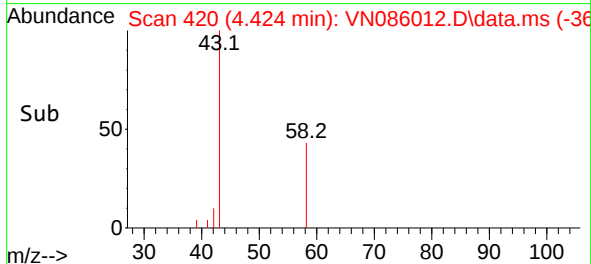
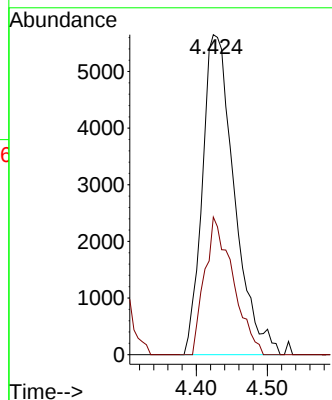
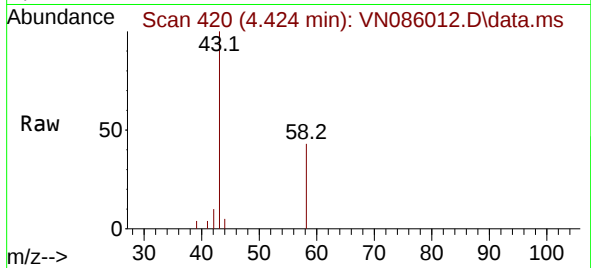




#16
Acetone
Concen: 30.587 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

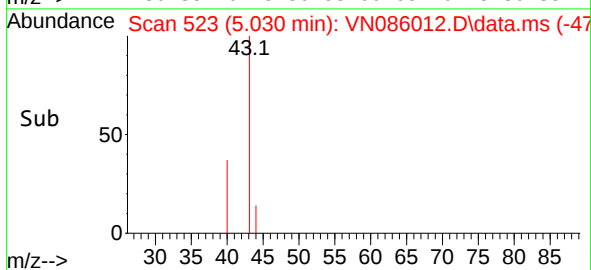
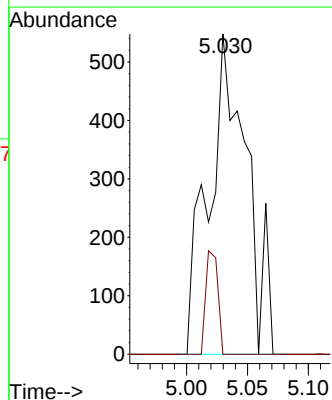
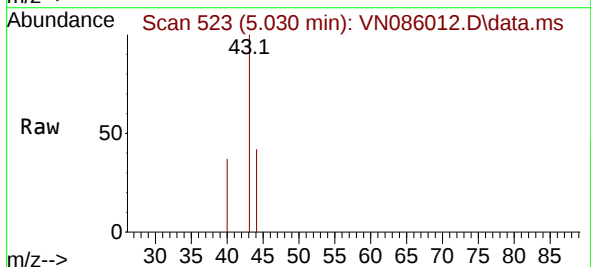
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

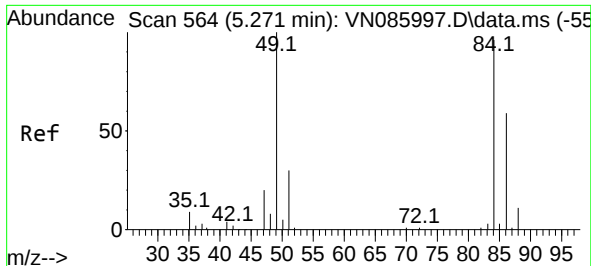
Tgt Ion: 43 Resp: 17676
Ion Ratio Lower Upper
43 100
58 43.0 29.4 44.2



#18
Methyl Acetate
Concen: 0.831 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 43 Resp: 1188
Ion Ratio Lower Upper
43 100
74 10.2 23.9 35.9#

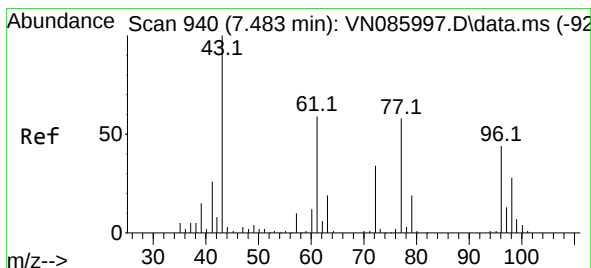
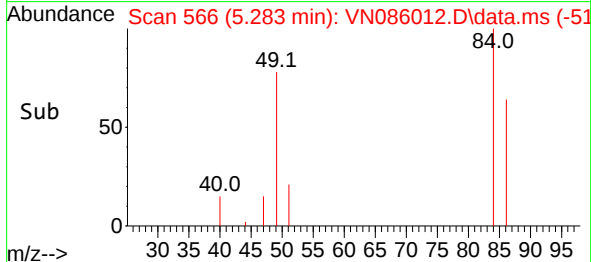
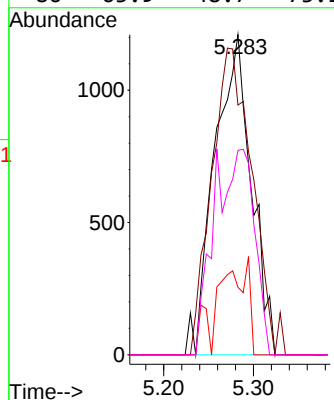
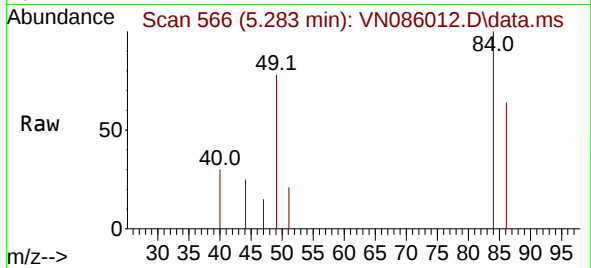




#20
Methylene Chloride
Concen: 2.038 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

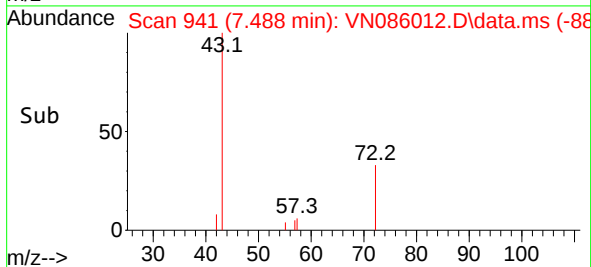
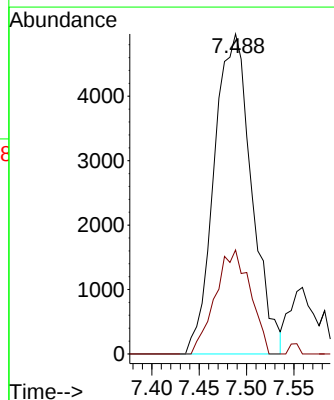
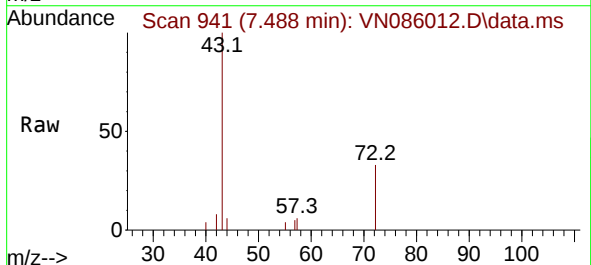
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

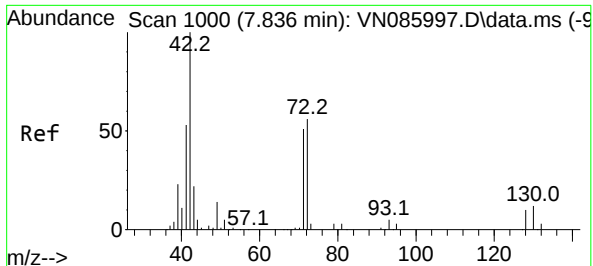
Tgt Ion: 84	Resp: 3446
Ion Ratio	Lower Upper
84 100	
49 78.0	83.3 124.9#
51 21.1	24.8 37.2#
86 63.9	48.7 73.1



#25
2-Butanone
Concen: 16.409 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 43	Resp: 13683
Ion Ratio	Lower Upper
43 100	
72 32.5	27.4 41.0





#29

Tetrahydrofuran

Concen: 0.528 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

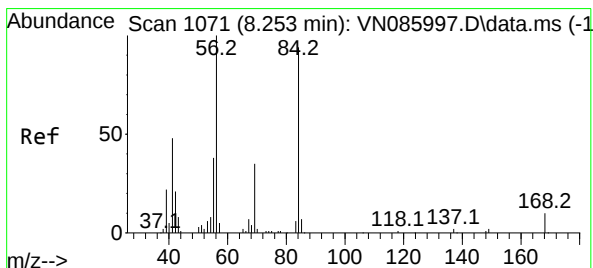
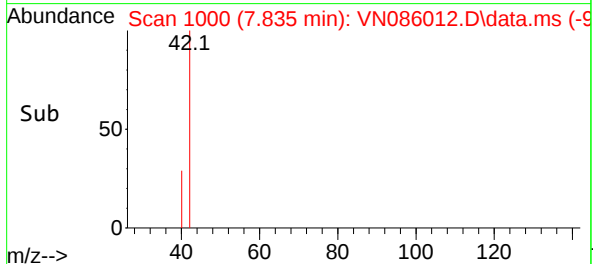
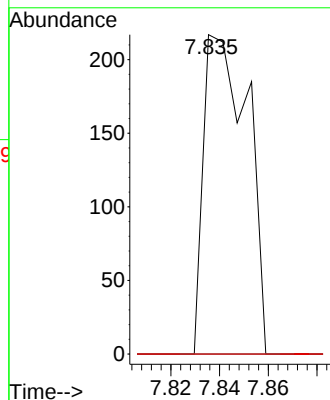
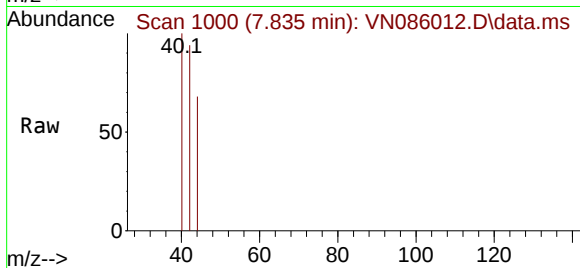
Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#02

Tgt Ion:	42	Resp:	272
Ion	Ratio	Lower	Upper
42	100		
72	0.0	45.0	67.4#
71	0.0	41.9	62.9#



#31

Cyclohexane

Concen: 1.170 ug/l

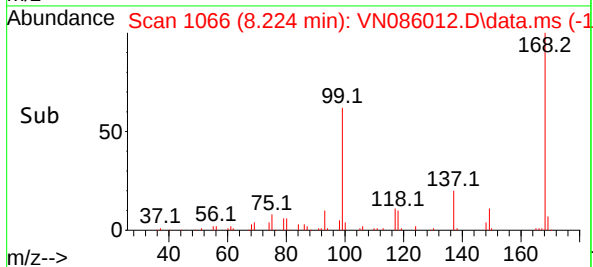
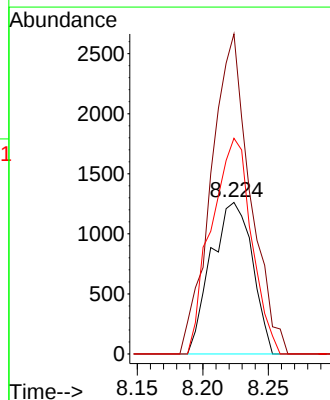
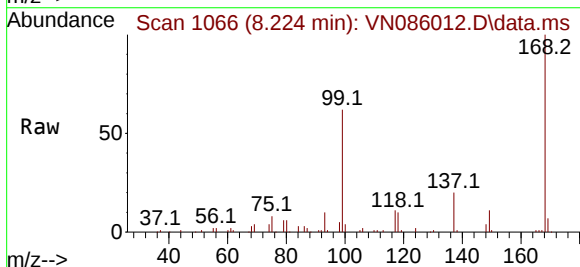
RT: 8.224 min Scan# 1066

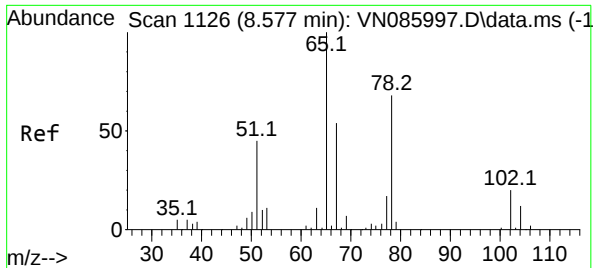
Delta R.T. -0.030 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

Tgt Ion:	56	Resp:	2758
Ion	Ratio	Lower	Upper
56	100		
69	211.1	28.0	42.0#
84	142.3	75.0	112.6#





#33

1,2-Dichloroethane-d4

Concen: 54.427 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

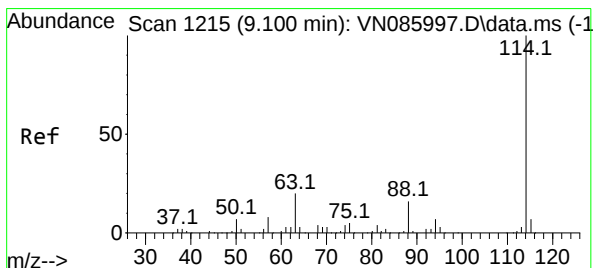
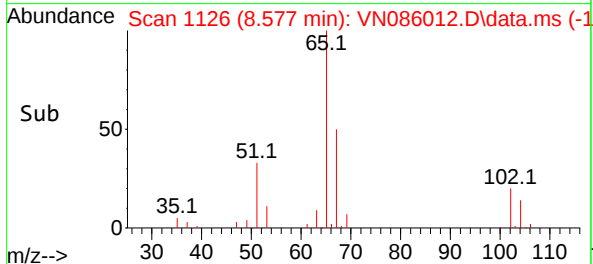
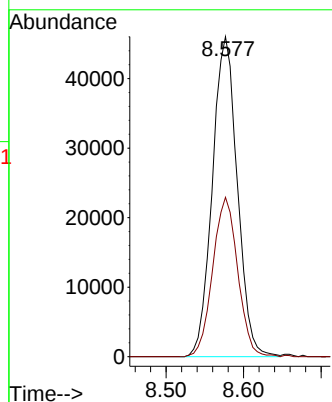
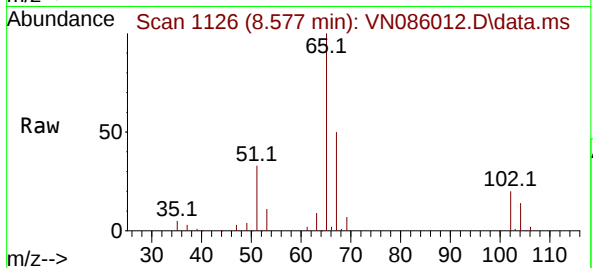
PB167194ZHE#02

Tgt Ion: 65 Resp: 102950

Ion Ratio Lower Upper

65 100

67 49.8 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: VN086012.D

Acq: 19 Mar 2025 16:26

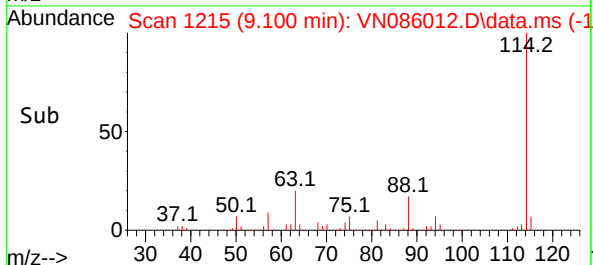
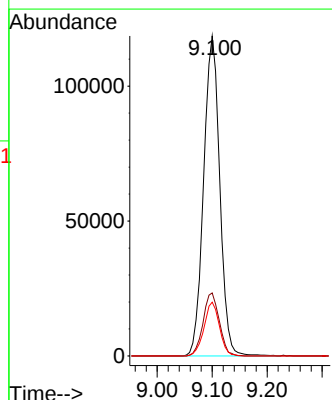
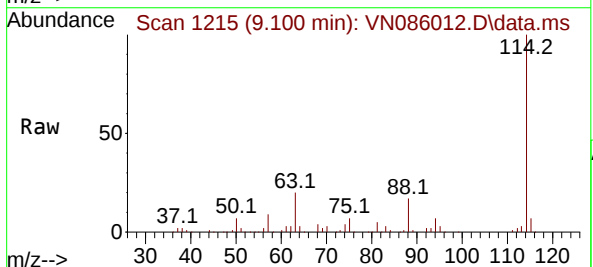
Tgt Ion: 114 Resp: 241700

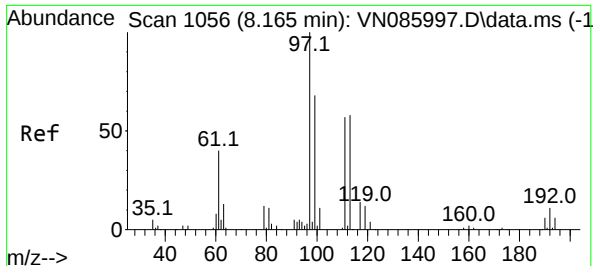
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 52.092 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#02

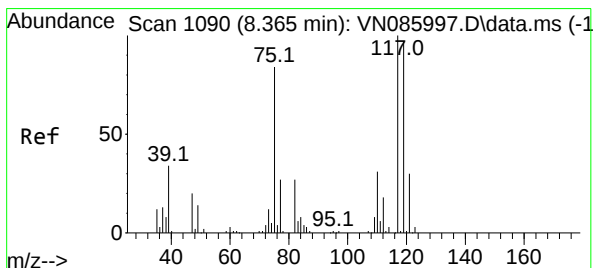
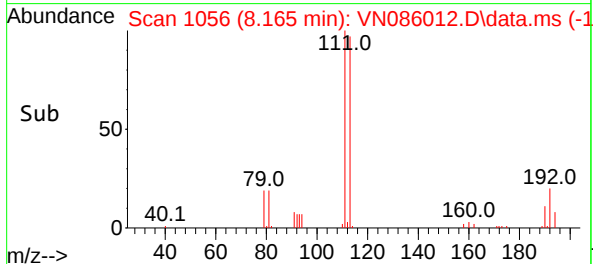
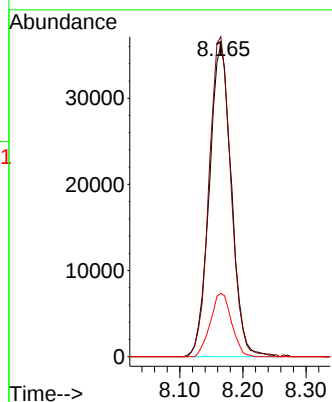
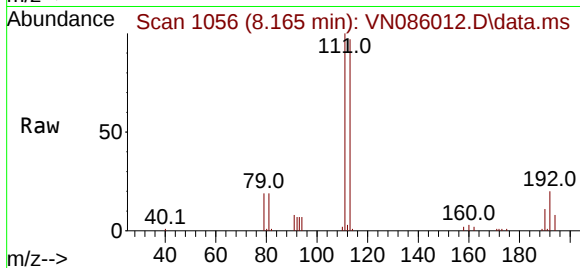
Tgt Ion:113 Resp: 87881

Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.8

192 19.5 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.881 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

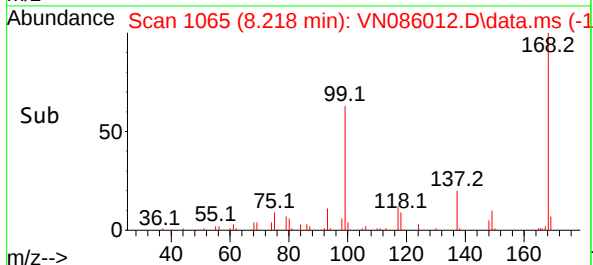
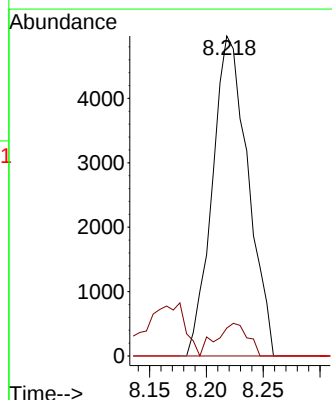
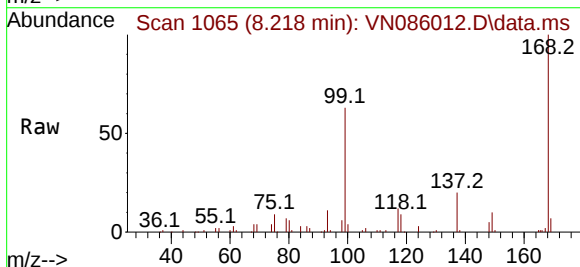
Tgt Ion: 75 Resp: 10843

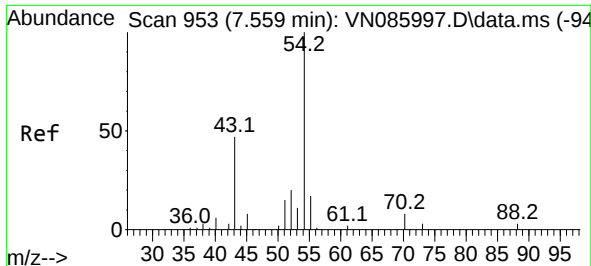
Ion Ratio Lower Upper

75 100

110 9.0 17.8 53.3#

77 0.0 25.0 37.4#

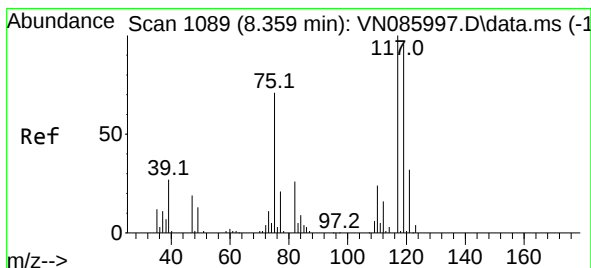
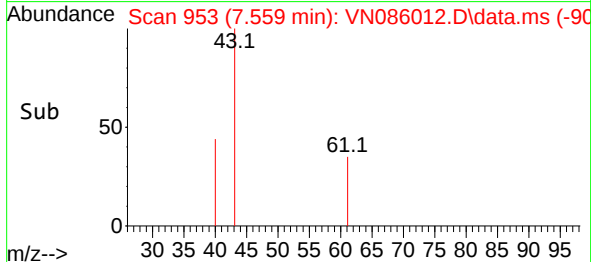
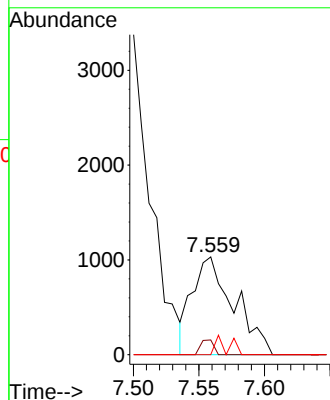
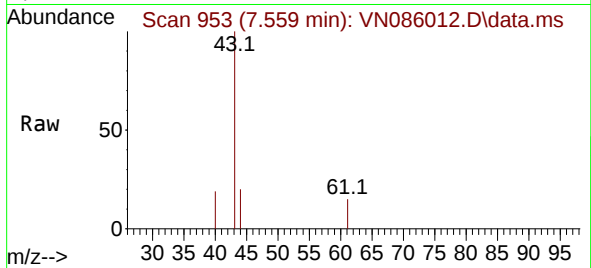




#37
Ethyl Acetate
Concen: 1.218 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

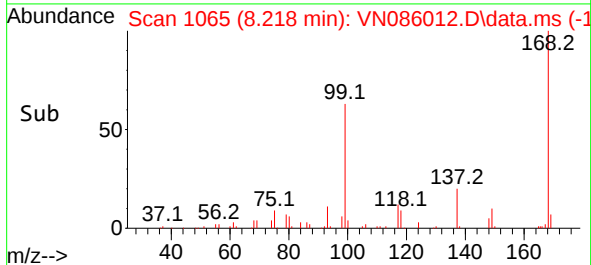
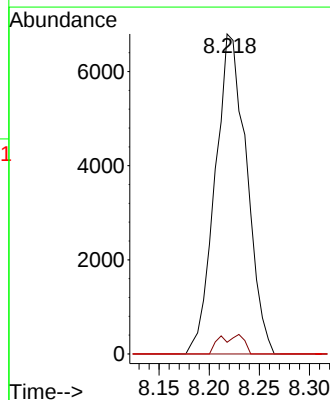
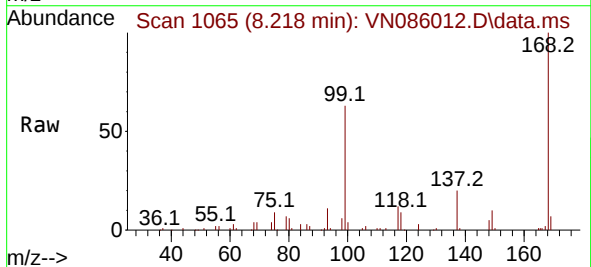
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

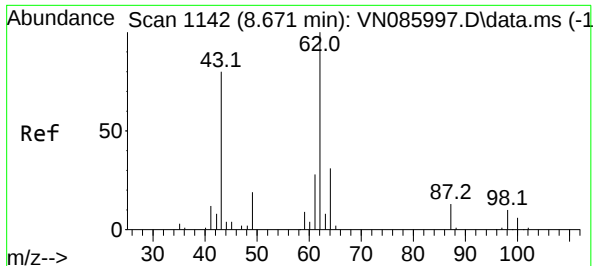
Tgt Ion: 43 Resp: 2282
Ion Ratio Lower Upper
43 100
61 4.7 13.0 19.4#
70 5.9 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 5.071 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 117 Resp: 14810
Ion Ratio Lower Upper
117 100
119 3.6 77.0 115.4#
121 0.0 25.6 38.4#

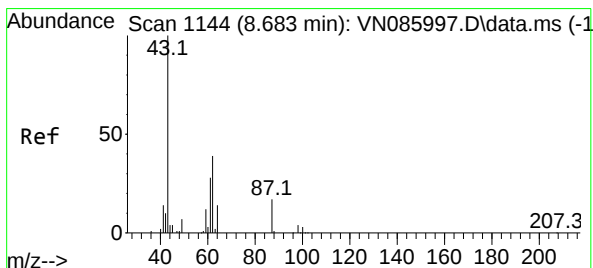
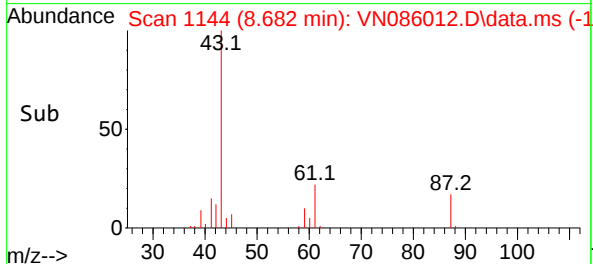
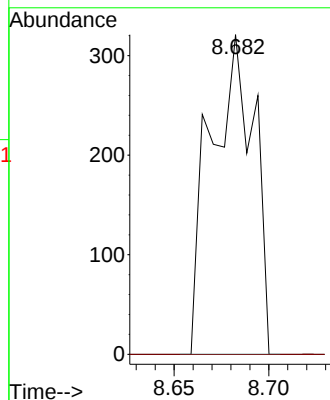
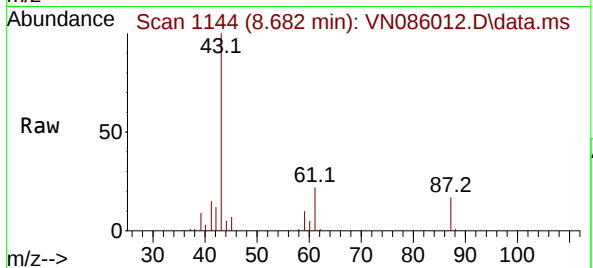




#42
1,2-Dichloroethane
Concen: 0.209 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

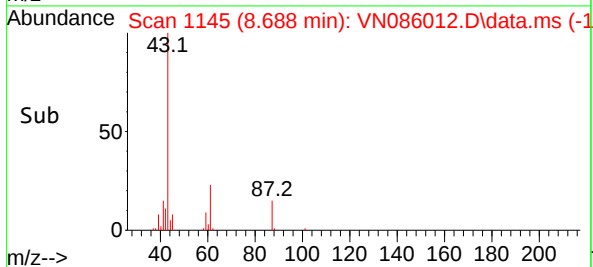
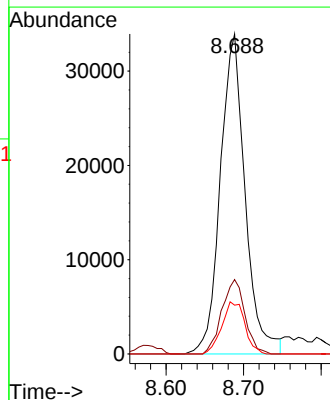
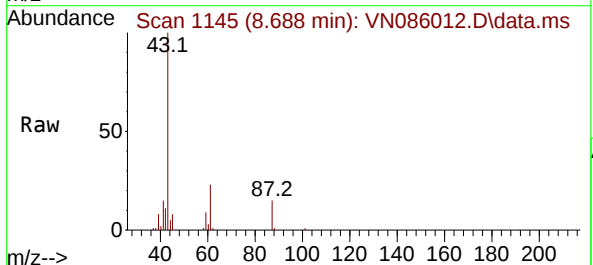
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

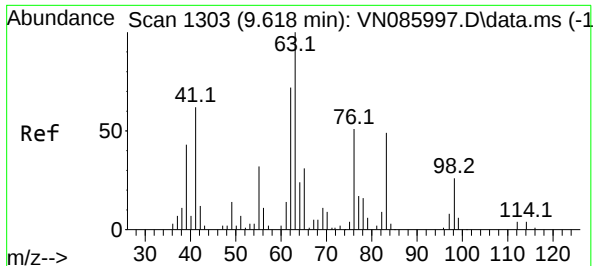
Tgt Ion: 62 Resp: 509
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6



#43
Isopropyl Acetate
Concen: 18.584 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 43 Resp: 75469
Ion Ratio Lower Upper
43 100
61 21.7 25.0 37.6#
87 15.1 13.0 19.4





#45

1,2-Dichloropropane

Concen: 0.750 ug/l

RT: 9.729 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

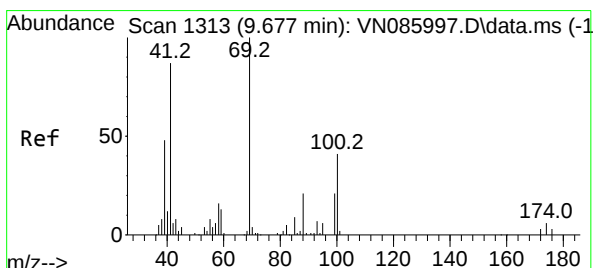
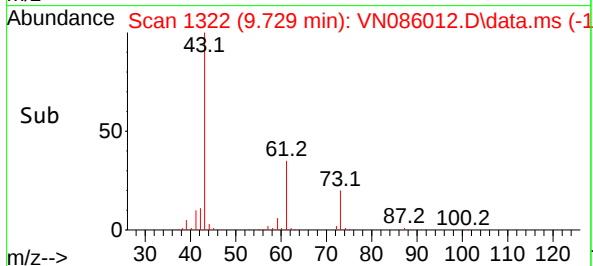
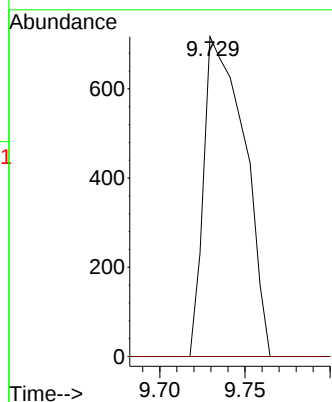
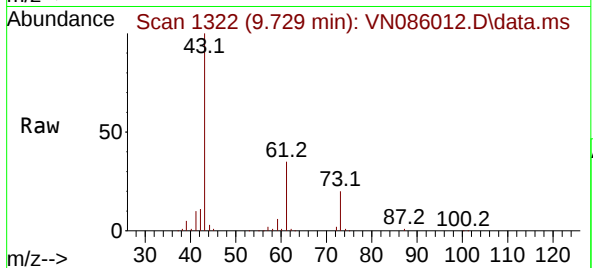
PB167194ZHE#02

Tgt Ion: 63 Resp: 1189

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 2.559 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

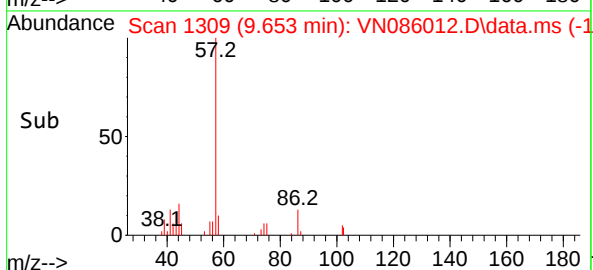
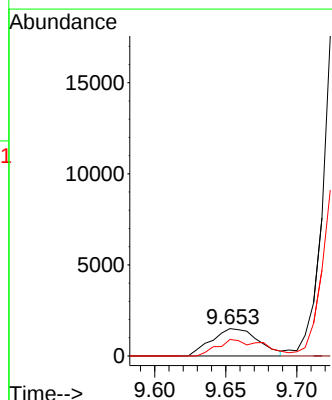
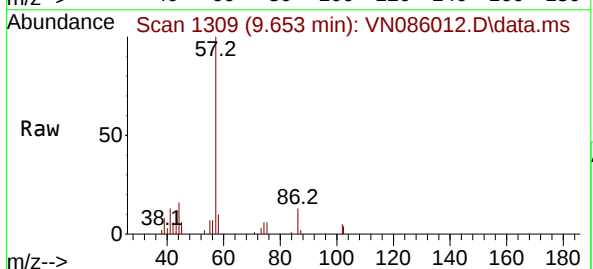
Tgt Ion: 41 Resp: 3429

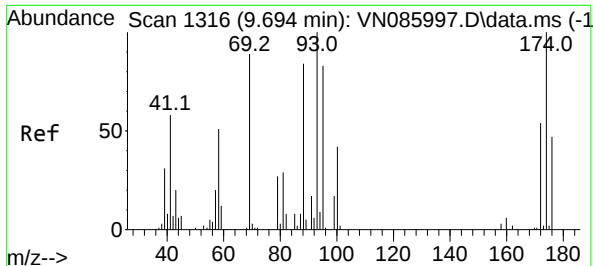
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 60.2 45.6 68.4





#49

1,4-Dioxane

Concen: 1.736 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN086012.D

Acq: 19 Mar 2025 16:26

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#02

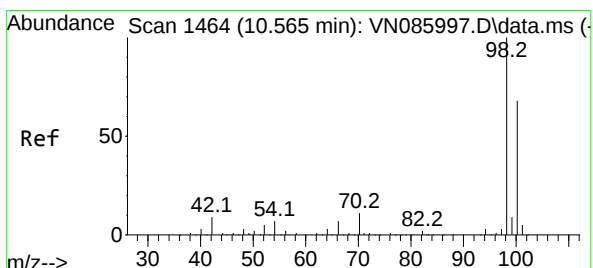
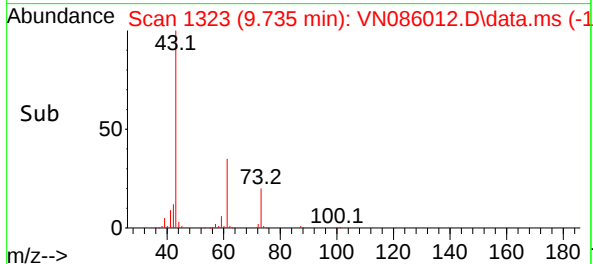
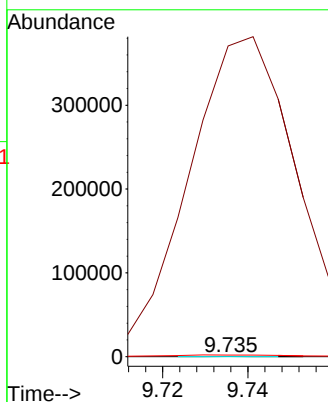
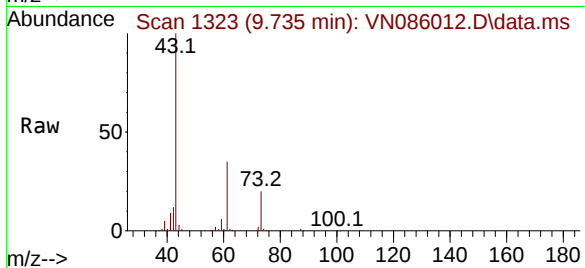
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 1267669.1 21.7 32.5#

58 7852.7 50.4 75.6#



#50

Toluene-d8

Concen: 51.967 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086012.D

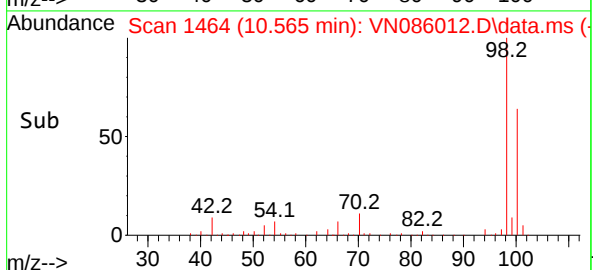
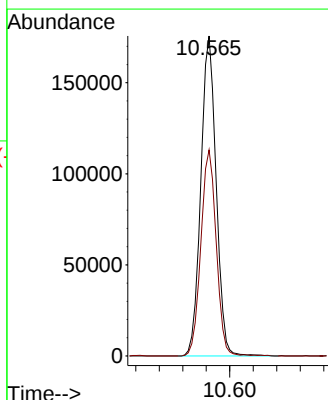
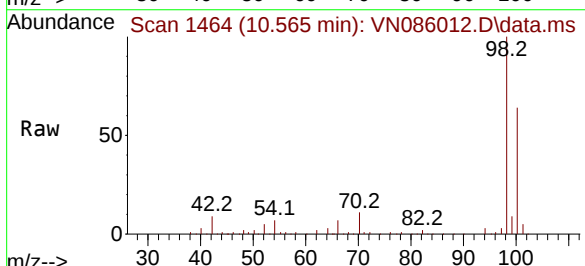
Acq: 19 Mar 2025 16:26

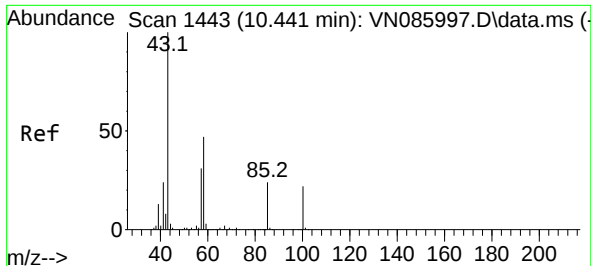
Tgt Ion: 98 Resp: 318179

Ion Ratio Lower Upper

98 100

100 64.6 53.1 79.7

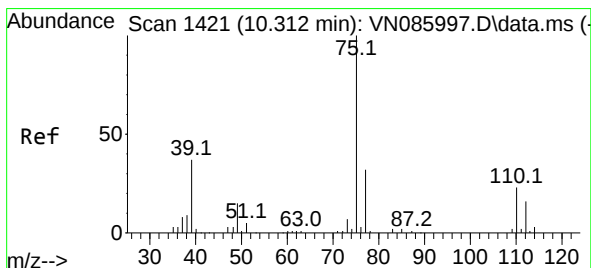
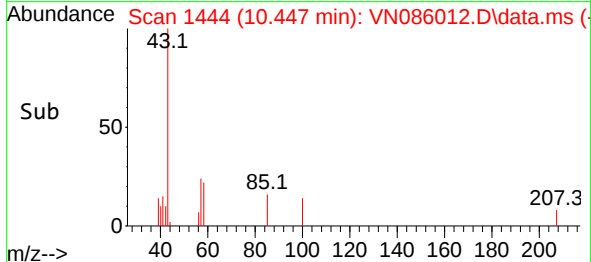
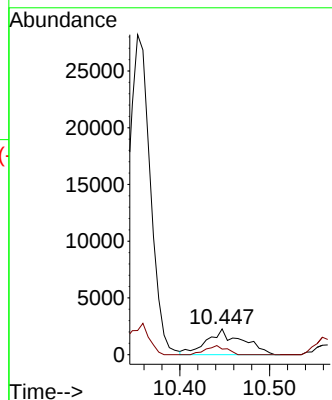
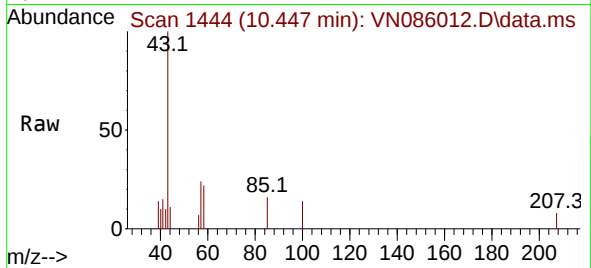




#51
4-Methyl-2-Pentanone
Concen: 3.448 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

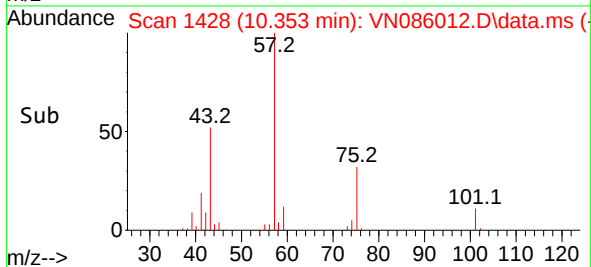
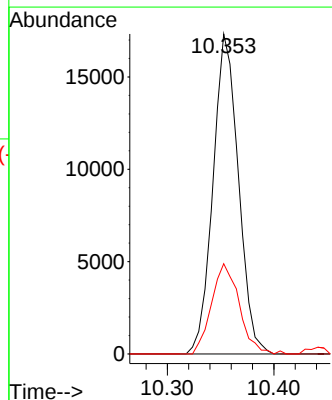
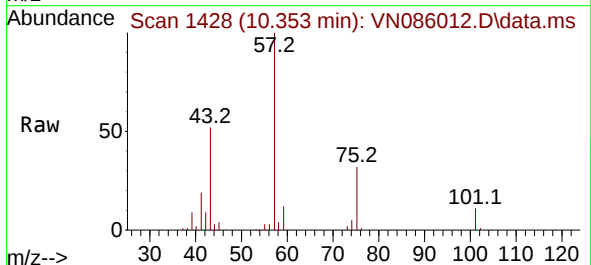
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

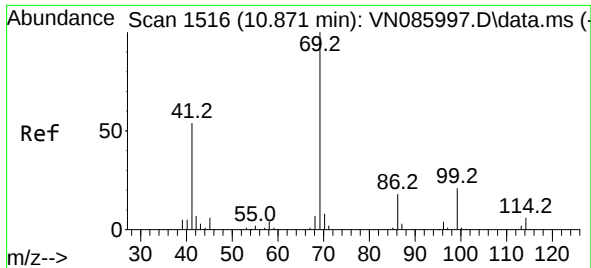
Tgt Ion: 43 Resp: 6175
Ion Ratio Lower Upper
43 100
58 20.6 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 10.744 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 75 Resp: 28699
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 28.2 29.6 44.4#

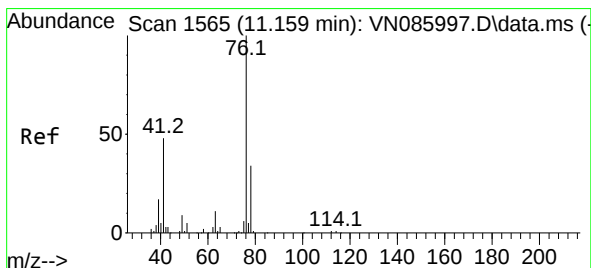
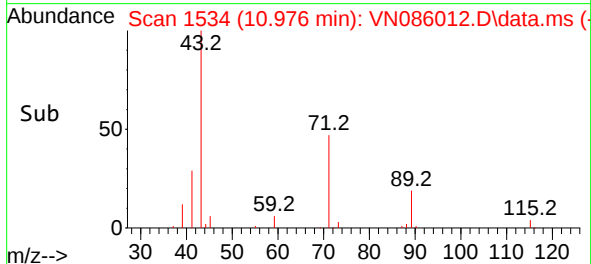
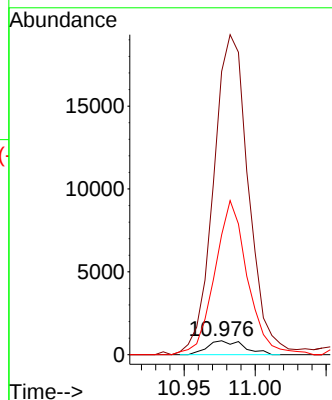
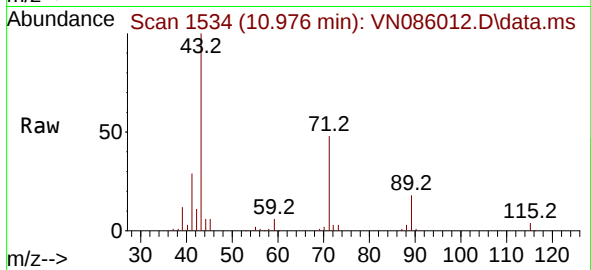




#56
Ethyl methacrylate
Concen: 0.922 ug/l
RT: 10.976 min Scan# 1514
Delta R.T. 0.105 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

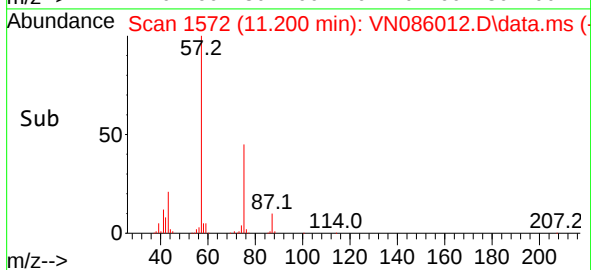
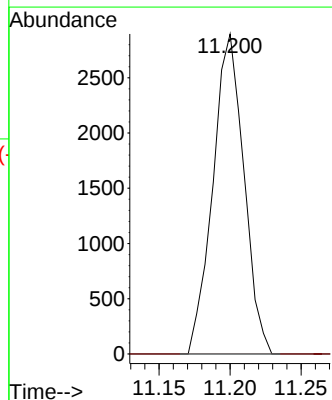
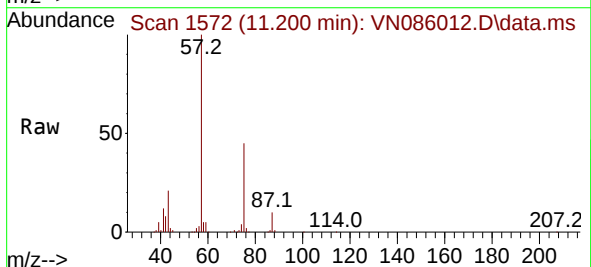
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

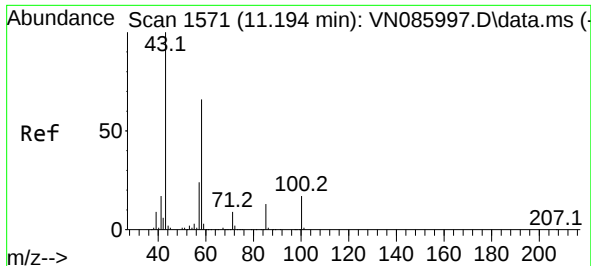
Tgt Ion: 69 Resp: 1514
Ion Ratio Lower Upper
69 100
41 2192.0 41.6 62.4#
39 988.5 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.585 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 76 Resp: 4397
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

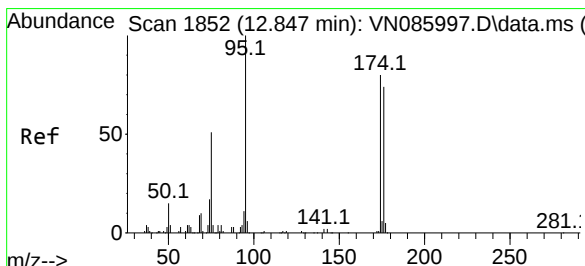
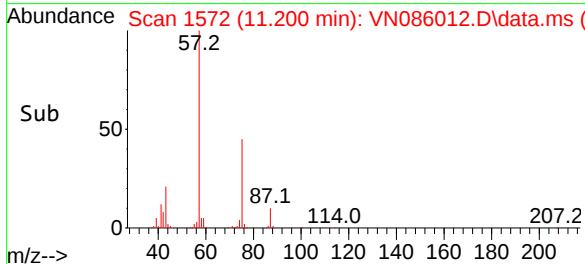
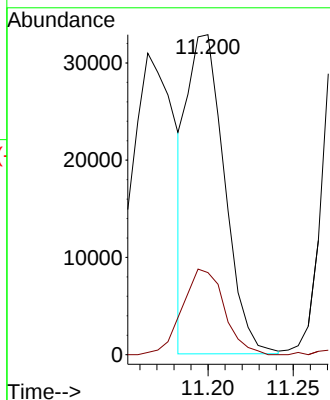
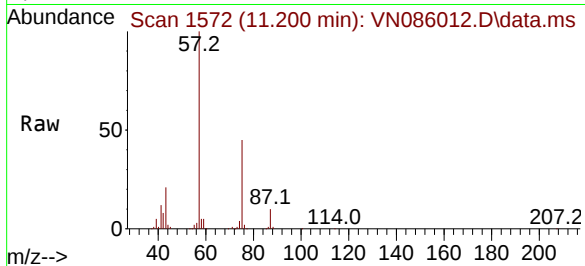




#59
2-Hexanone
Concen: 38.386 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

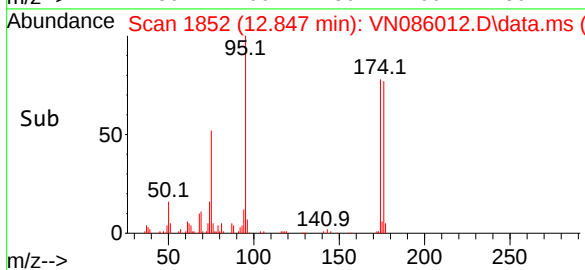
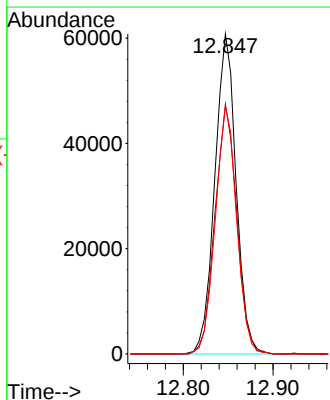
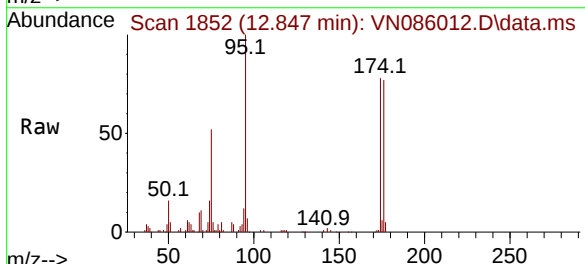
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

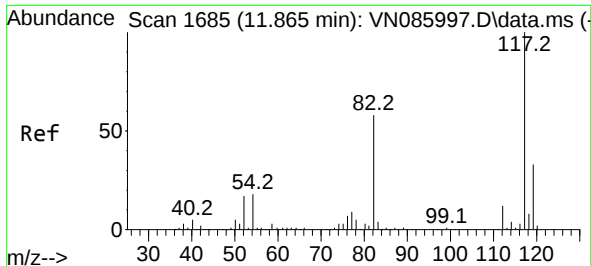
Tgt Ion: 43 Resp: 50083
Ion Ratio Lower Upper
43 100
58 30.1 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 45.924 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 95 Resp: 100278
Ion Ratio Lower Upper
95 100
174 79.6 0.0 156.8
176 77.5 0.0 152.2

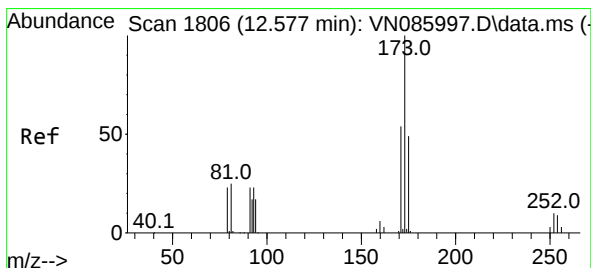
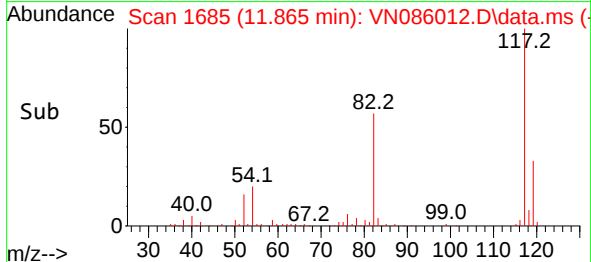
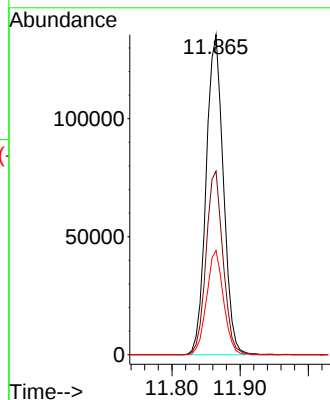
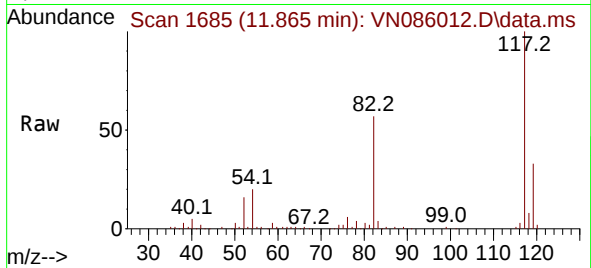




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

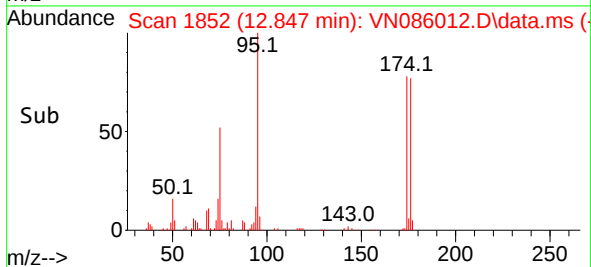
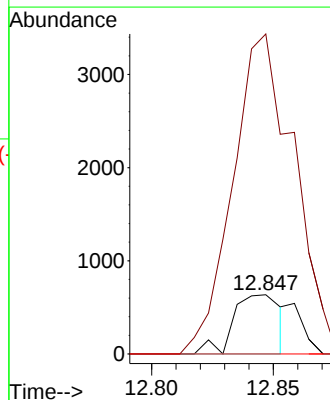
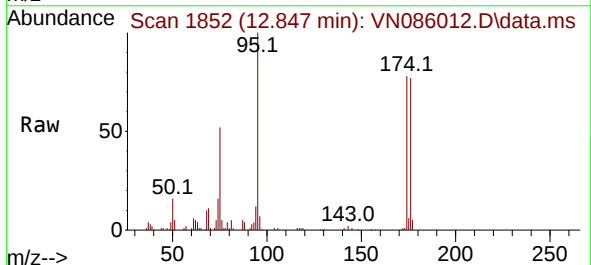
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

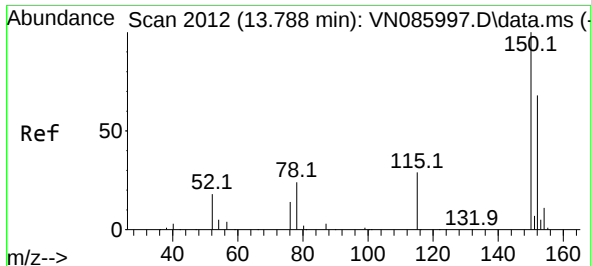
Tgt Ion:117 Resp: 238319
Ion Ratio Lower Upper
117 100
82 57.4 46.7 70.1
119 32.5 26.5 39.7



#71
Bromoform
Concen: 0.510 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion:173 Resp: 864
Ion Ratio Lower Upper
173 100
175 531.9 24.3 73.0#
254 0.0 0.0 0.0

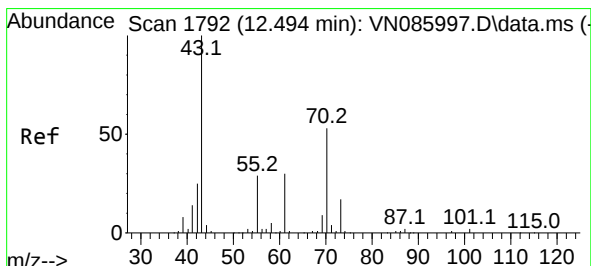
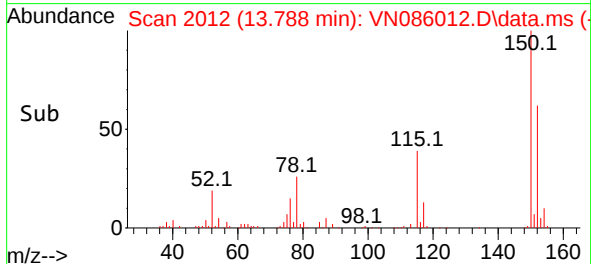
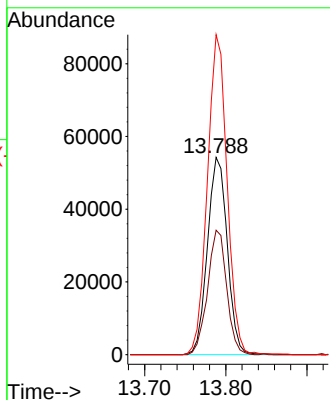
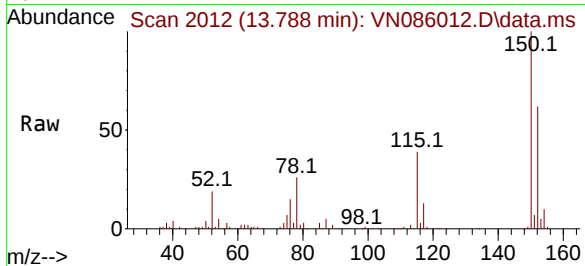




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

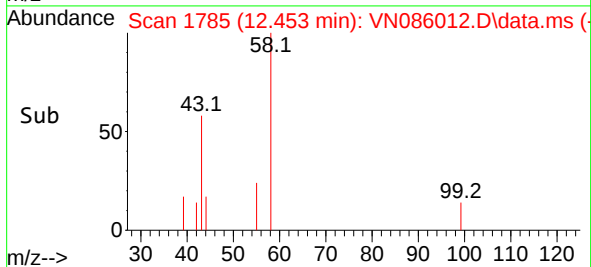
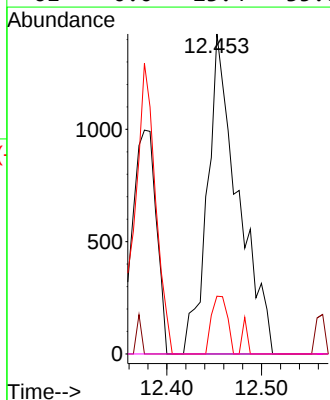
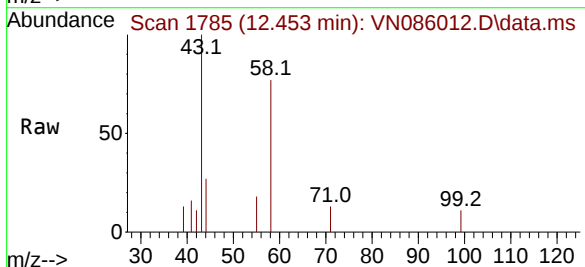
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

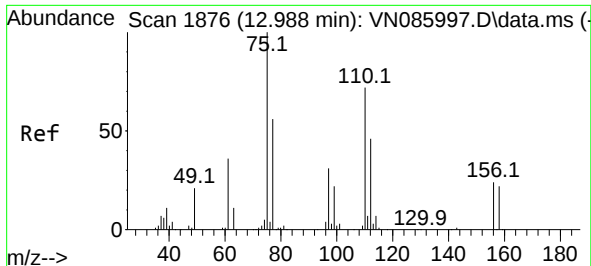
Tgt Ion:152 Resp: 92171
Ion Ratio Lower Upper
152 100
115 60.6 31.1 93.2
150 160.6 0.0 359.6



#74
N-ethyl acetate
Concen: 1.515 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.041 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 43 Resp: 3191
Ion Ratio Lower Upper
43 100
70 0.0 43.0 64.4#
55 9.3 23.8 35.8#
61 0.0 23.4 35.0#

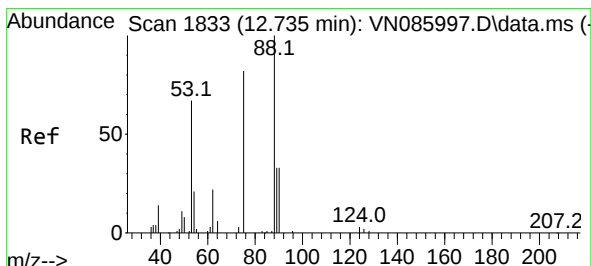
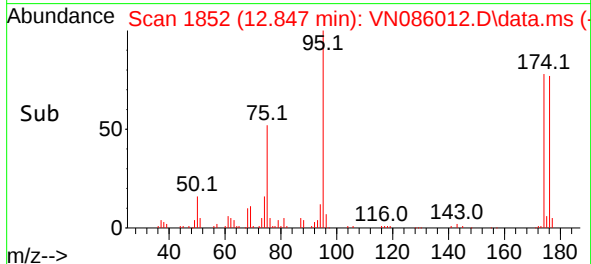
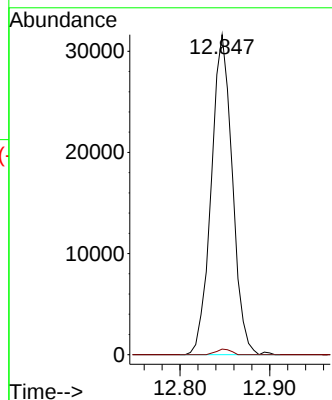
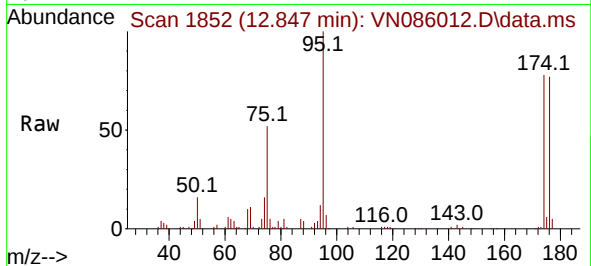




#76
1,2,3-Trichloropropane
Concen: 25.079 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#02

Tgt Ion: 75 Resp: 51751
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.304 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086012.D
Acq: 19 Mar 2025 16:26

Tgt Ion: 75 Resp: 51751
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

