

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086436.D
 Acq On : 30 Apr 2025 15:03
 Operator : JC\MD
 Sample : PB167775ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#06

Quant Time: May 01 01:35:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

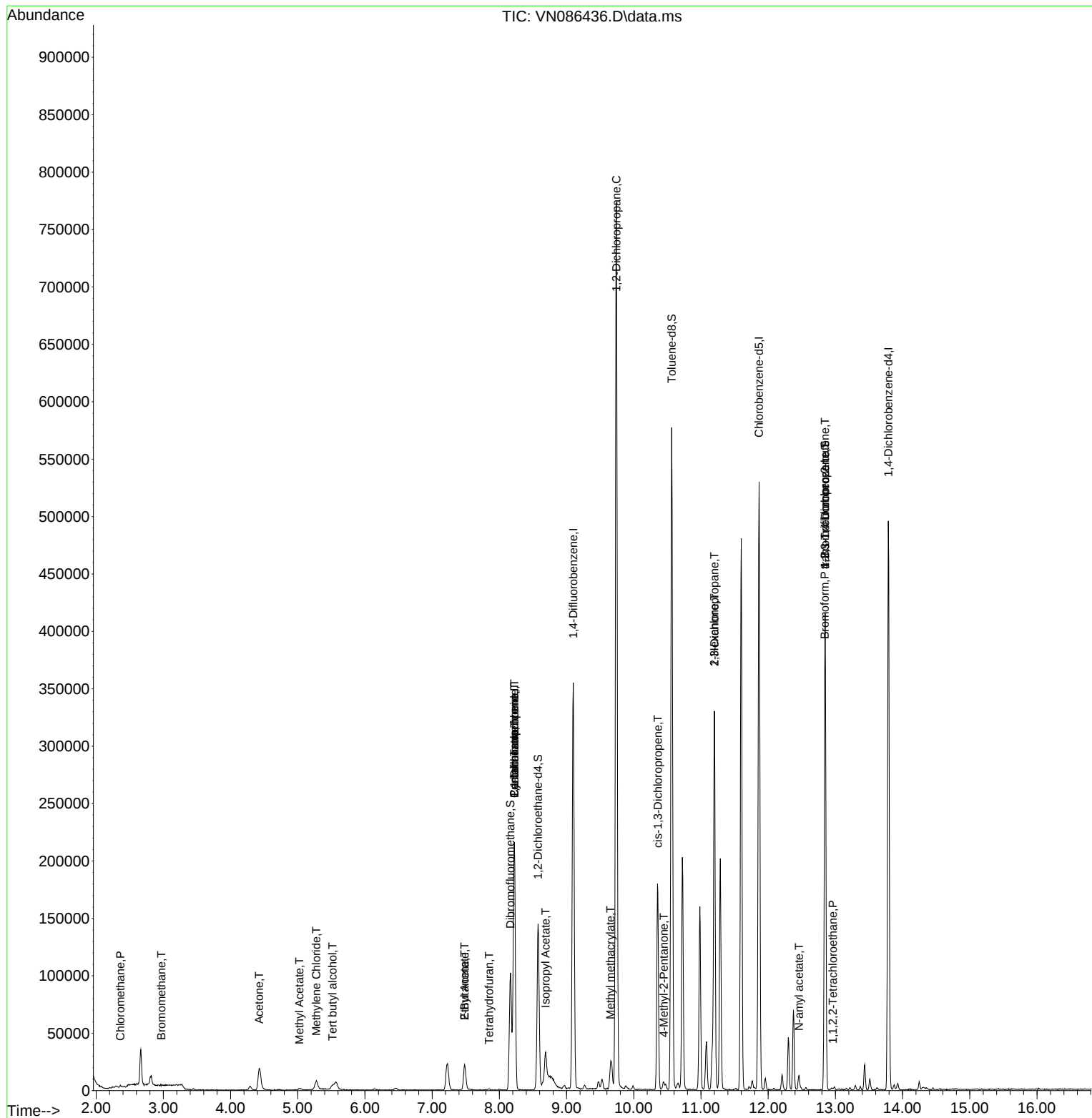
Internal Standards						
1) Pentafluorobenzene	8.224	168	162709	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	313920	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119217	50.528	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 101.060%		
35) Dibromofluoromethane	8.165	113	75303	51.686	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 103.380%		
50) Toluene-d8	10.565	98	398013	51.115	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 102.240%		
62) 4-Bromofluorobenzene	12.847	95	146369	51.536	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.080%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	868	0.310	ug/l	94
5) Bromomethane	2.971	94	351	0.292	ug/l	86
11) Tert butyl alcohol	5.518	59	7483	17.382	ug/l #	90
13) Acrolein	4.189	56	115	Below Cal	#	13
16) Acetone	4.424	43	38252	42.147	ug/l	94
18) Methyl Acetate	5.024	43	3525	1.245	ug/l #	70
20) Methylene Chloride	5.277	84	6152	2.820	ug/l #	82
25) 2-Butanone	7.482	43	34930	23.784	ug/l	93
29) Tetrahydrofuran	7.847	42	958	0.975	ug/l #	37
31) Cyclohexane	8.224	56	3804	0.995	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13606	4.676	ug/l #	49
37) Ethyl Acetate	7.482	43	34930	11.401	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16435	5.931	ug/l #	15
43) Isopropyl Acetate	8.688	43	48617	7.106	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	911	0.399	ug/l #	43
48) Methyl methacrylate	9.653	41	5082	1.889	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	5235	1.669	ug/l	92
54) cis-1,3-Dichloropropene	10.359	75	33612	8.729	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3244	0.874	ug/l #	43
59) 2-Hexanone	11.200	43	85047	36.549	ug/l #	52
71) Bromoform	12.841	173	871	0.515	ug/l #	1
74) N-amyl acetate	12.459	43	9879	1.862	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.964	83	777	0.254	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	75304	24.495	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75304	58.829	ug/l #	10

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

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Acq On : 30 Apr 2025 15:03
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Sample : PB167775ZHE#06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: May 01 01:35:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration

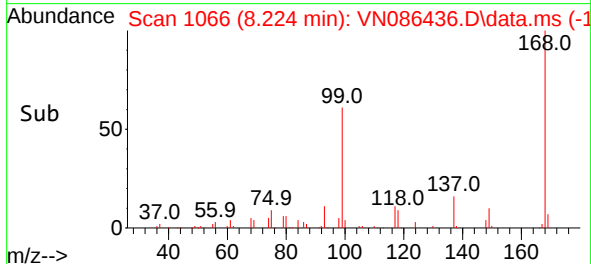
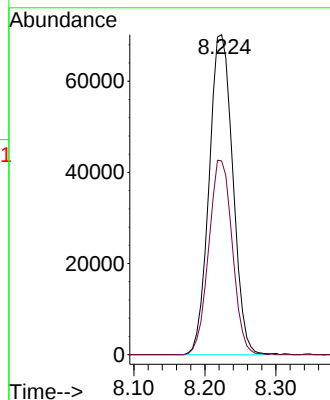
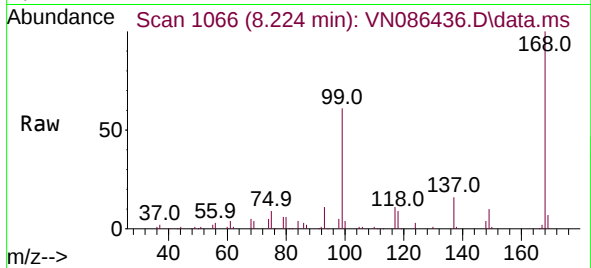




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

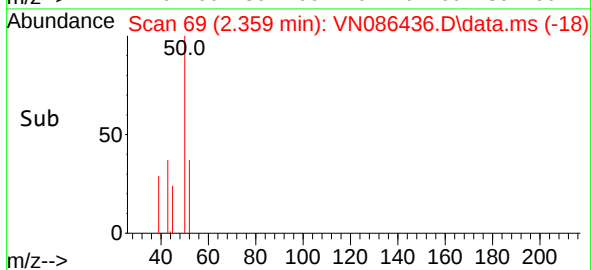
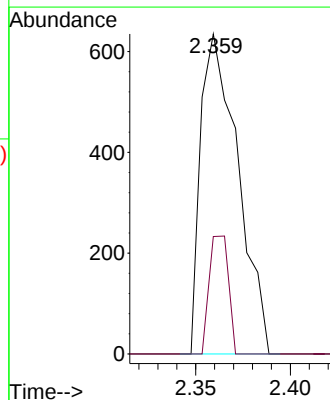
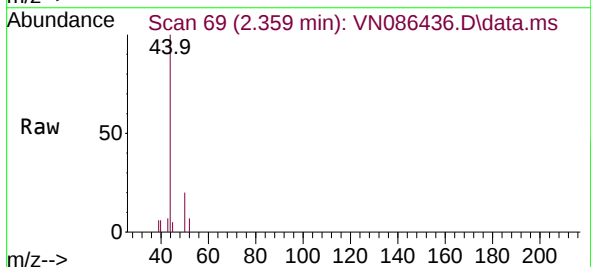
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

Tgt Ion:168 Resp: 162709
Ion Ratio Lower Upper
168 100
99 60.5 52.5 78.7



#3
Chloromethane
Concen: 0.310 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

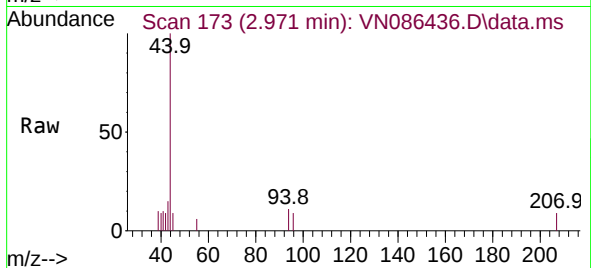
Tgt Ion: 50 Resp: 868
Ion Ratio Lower Upper
50 100
52 36.7 26.5 39.7



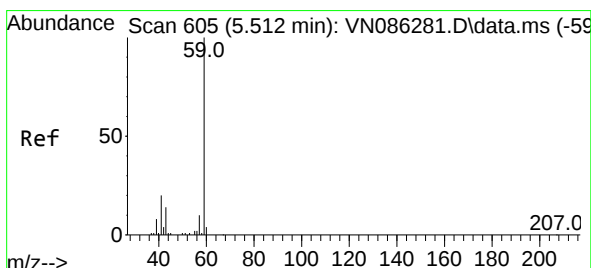
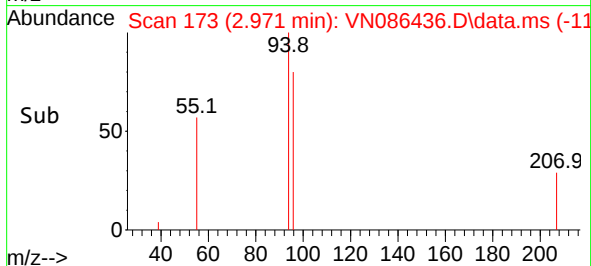
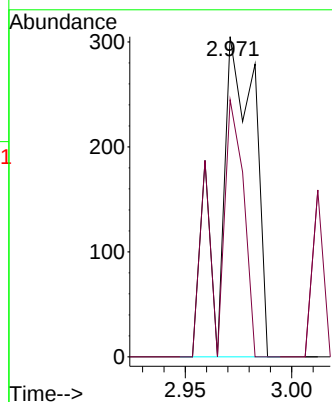


#5
Bromomethane
Concen: 0.292 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

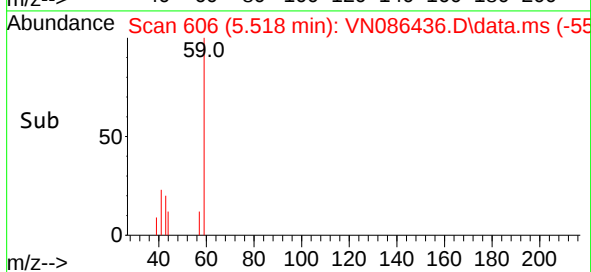
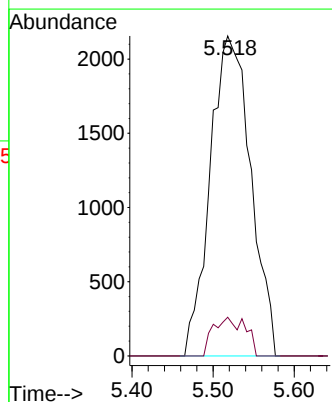
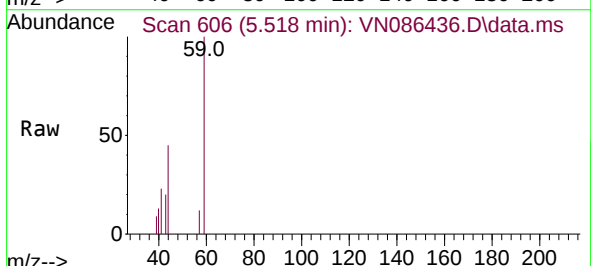


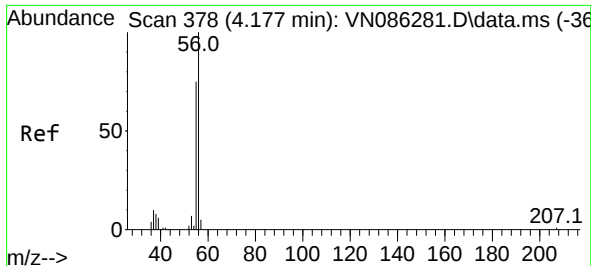
Tgt Ion: 94 Resp: 351
Ion Ratio Lower Upper
94 100
96 80.3 75.2 112.8



#11
Tert butyl alcohol
Concen: 17.382 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 59 Resp: 7483
Ion Ratio Lower Upper
59 100
57 6.8 8.3 12.5#

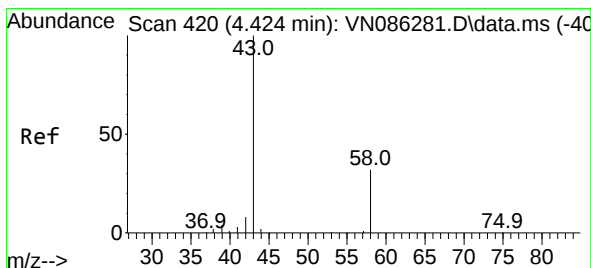
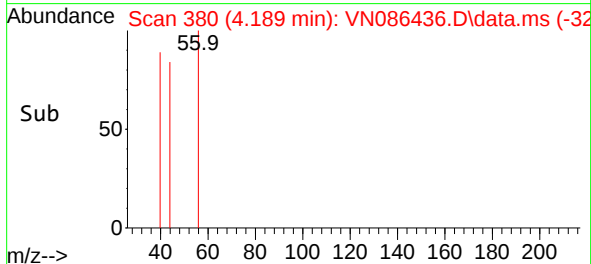
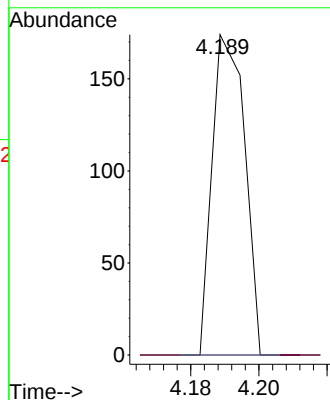
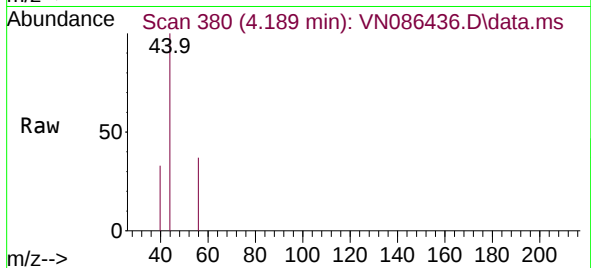




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 311
Delta R.T. 0.012 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

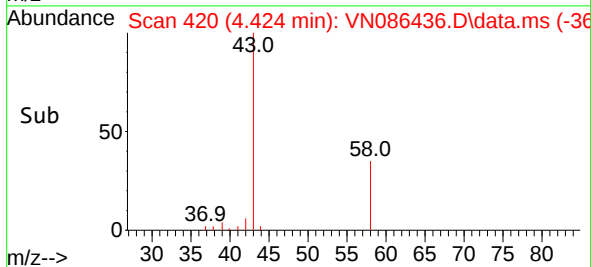
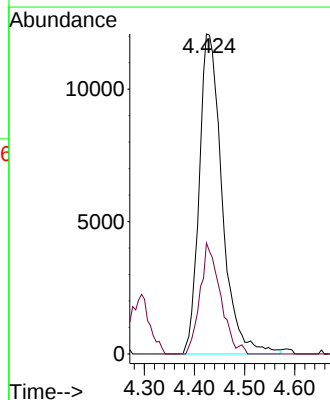
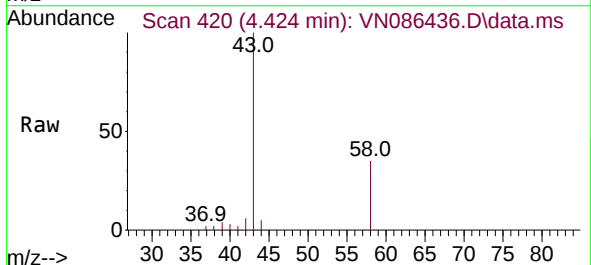
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

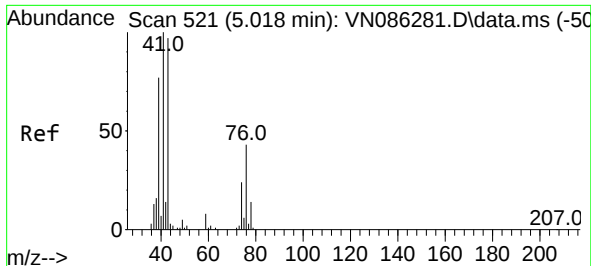
Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#



#16
Acetone
Concen: 42.147 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 43 Resp: 38252
Ion Ratio Lower Upper
43 100
58 34.7 25.3 37.9

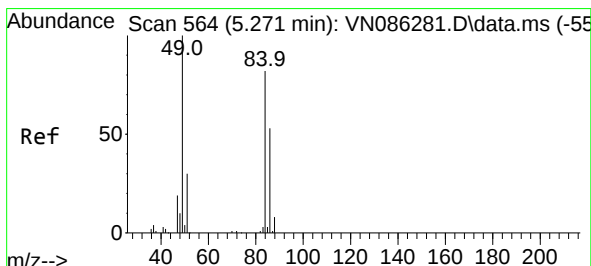
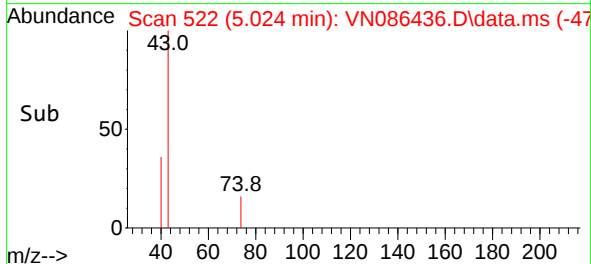
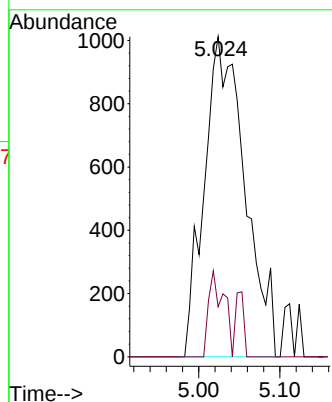
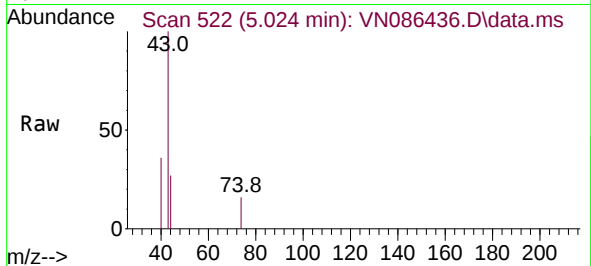




#18
Methyl Acetate
Concen: 1.245 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

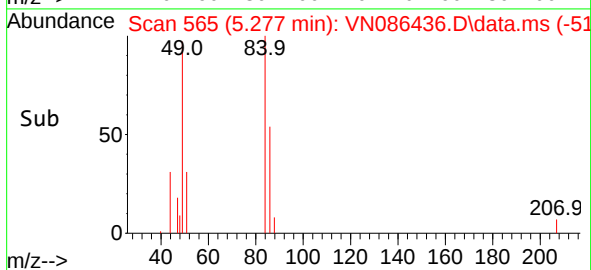
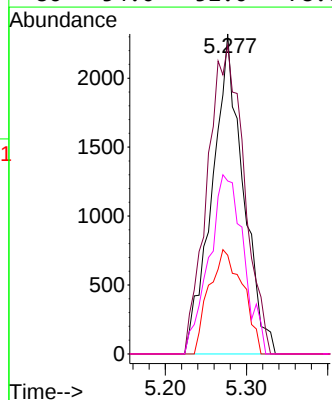
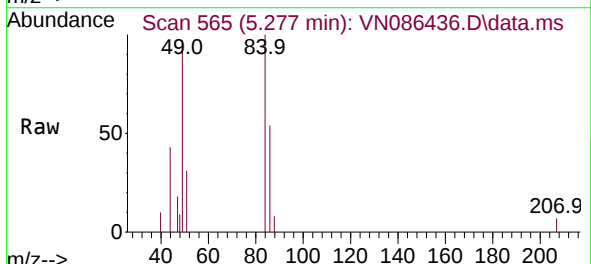
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

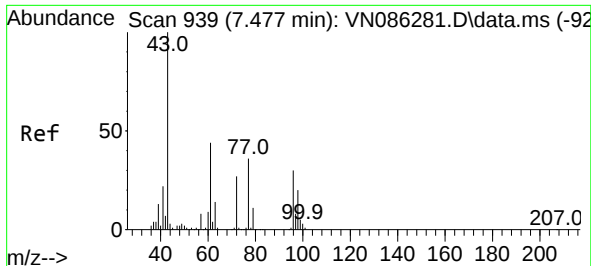
Tgt Ion: 43 Resp: 3525
Ion Ratio Lower Upper
43 100
74 10.0 19.8 29.6#



#20
Methylene Chloride
Concen: 2.820 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 84 Resp: 6152
Ion Ratio Lower Upper
84 100
49 96.6 98.2 147.2#
51 30.8 29.8 44.6
86 54.0 52.0 78.0

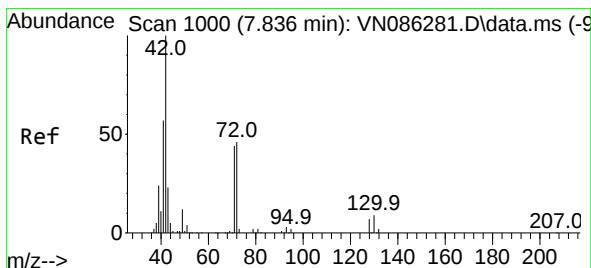
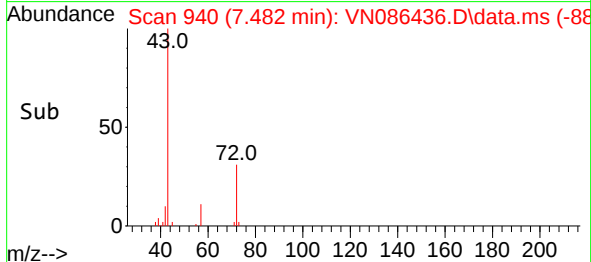
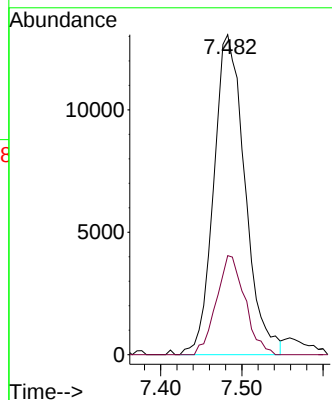
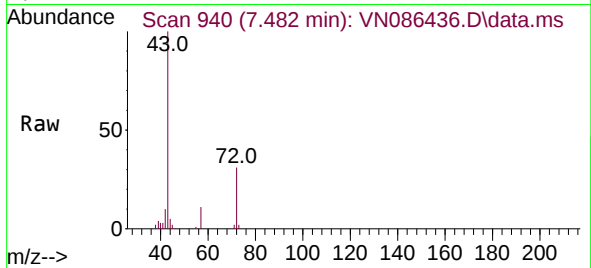




#25
2-Butanone
Concen: 23.784 ug/l
RT: 7.482 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

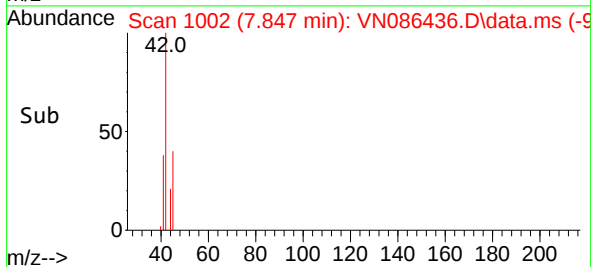
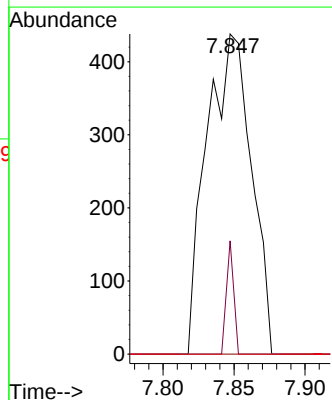
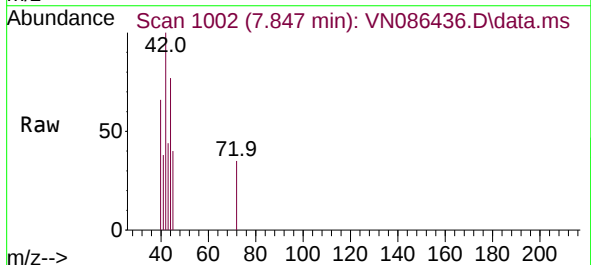
Instrument :
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ClientSampleId :
PB167775ZHE#06

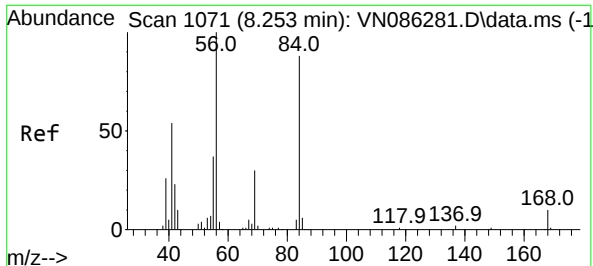
Tgt Ion: 43 Resp: 34930
Ion Ratio Lower Upper
43 100
72 31.0 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.975 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

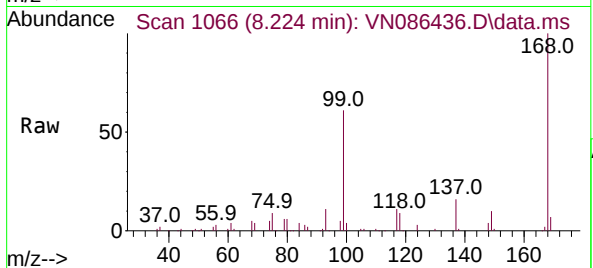
Tgt Ion: 42 Resp: 958
Ion Ratio Lower Upper
42 100
72 5.7 36.2 54.4#
71 0.0 34.0 51.0#



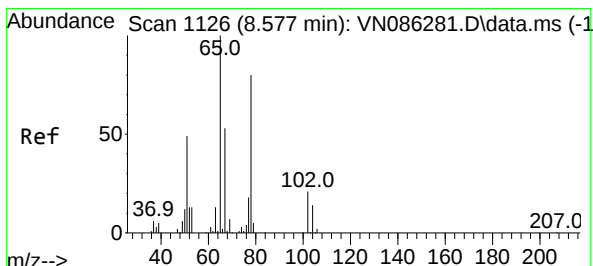
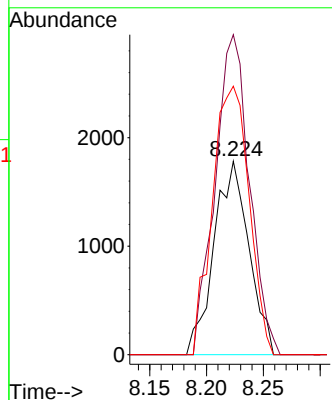
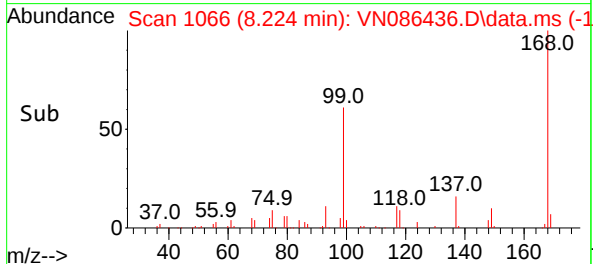


#31
Cyclohexane
Concen: 0.995 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

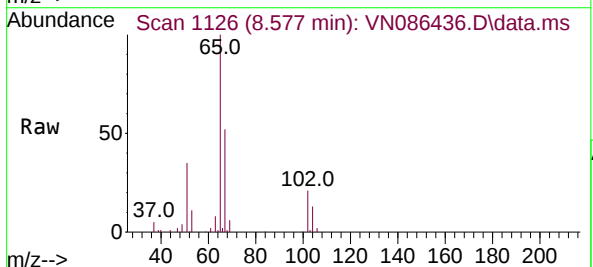
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MSVOA_N
ClientSampleId :
PB167775ZHE#06



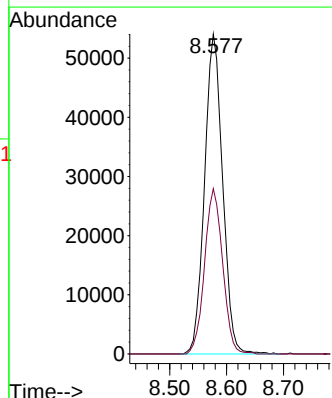
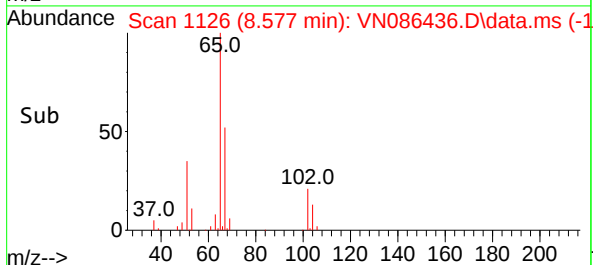
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Ion Ratio Lower Upper
56 100
69 165.4 24.2 36.2#
84 138.8 70.3 105.5#

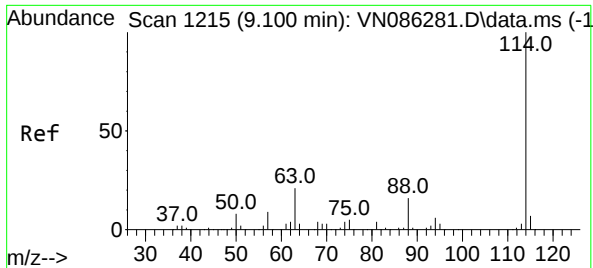


#33
1,2-Dichloroethane-d4
Concen: 50.528 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03



Tgt Ion: 65 Resp: 119217
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.0

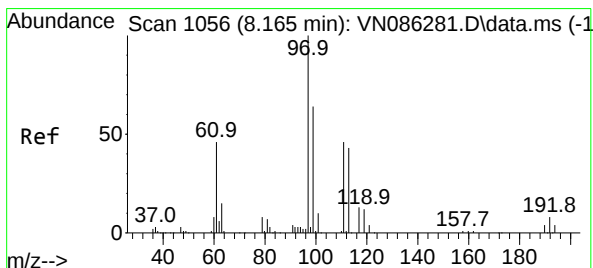
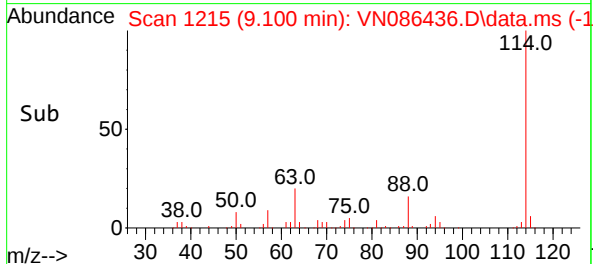
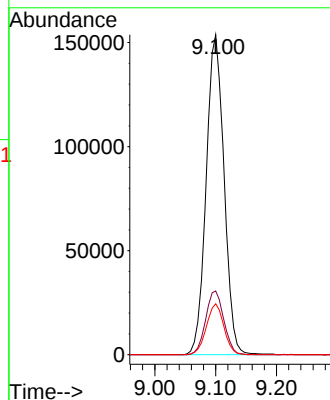
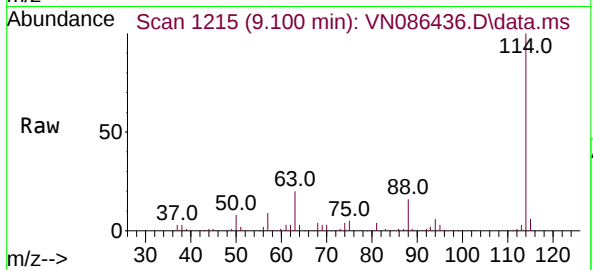




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

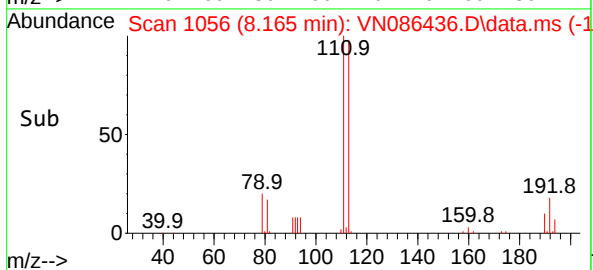
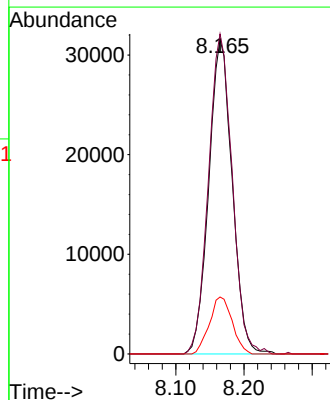
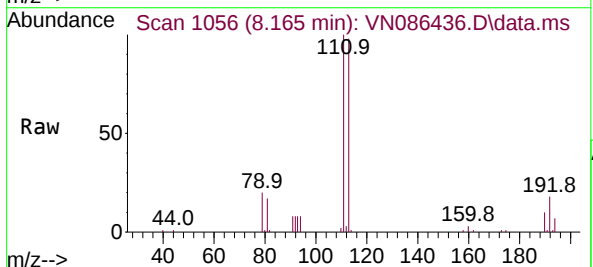
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

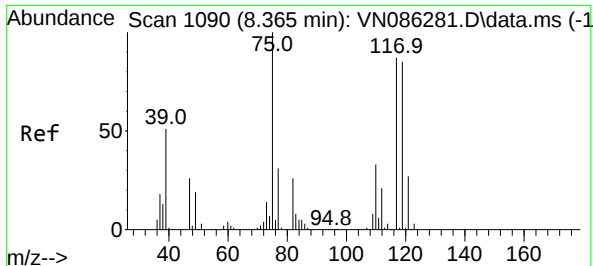
Tgt Ion:114 Resp: 313920
Ion Ratio Lower Upper
114 100
63 19.9 0.0 42.6
88 15.9 0.0 31.8



#35
Dibromofluoromethane
Concen: 51.686 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion:113 Resp: 75303
Ion Ratio Lower Upper
113 100
111 103.2 83.4 125.0
192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.676 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#06

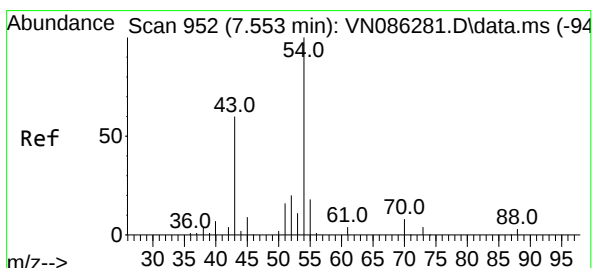
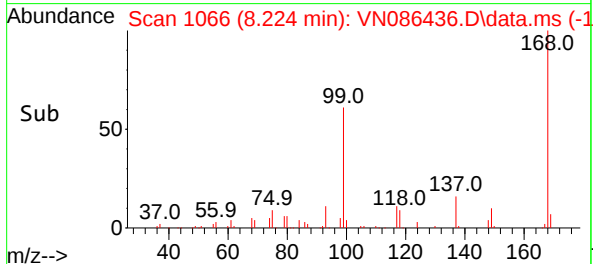
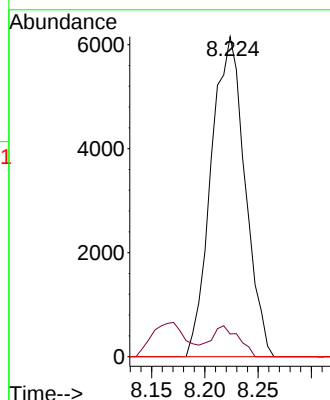
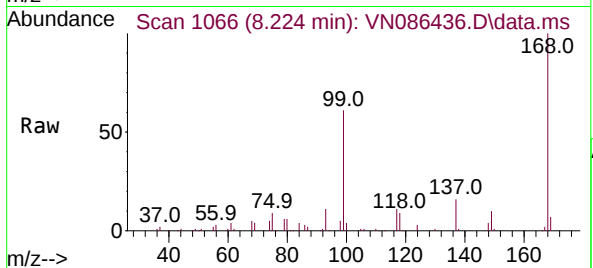
Tgt Ion: 75 Resp: 13606

Ion Ratio Lower Upper

75 100

110 7.9 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 11.401 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.071 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

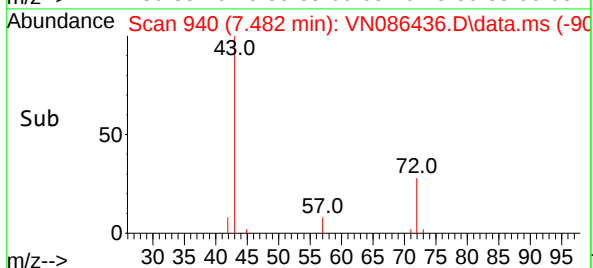
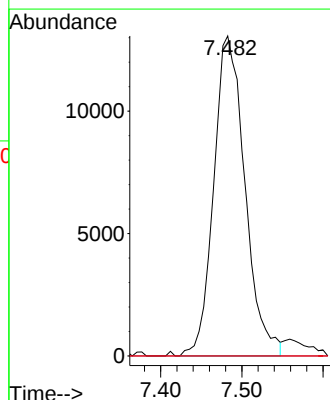
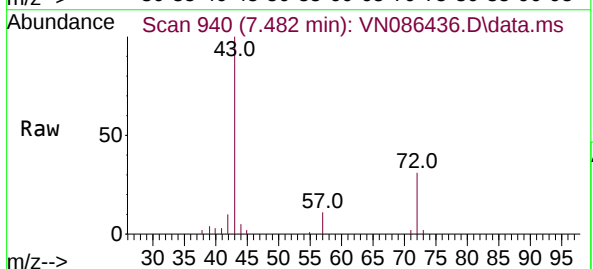
Tgt Ion: 43 Resp: 34930

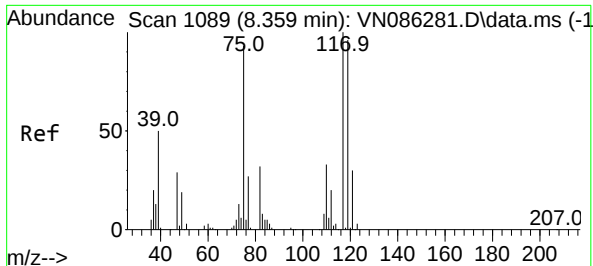
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#

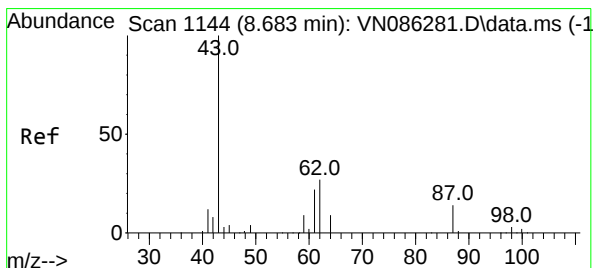
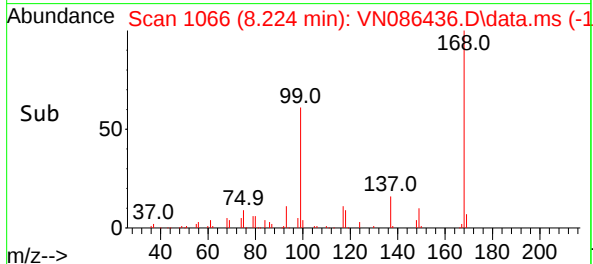
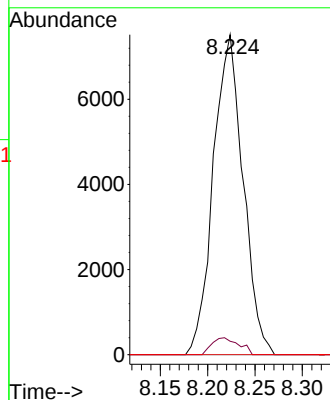
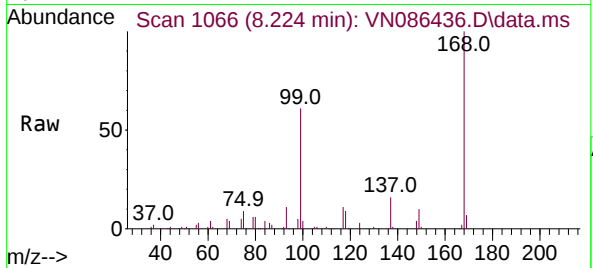




#38
Carbon Tetrachloride
Concen: 5.931 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

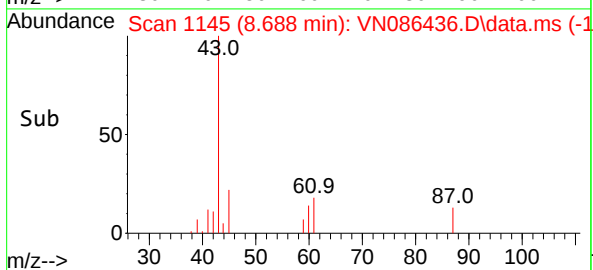
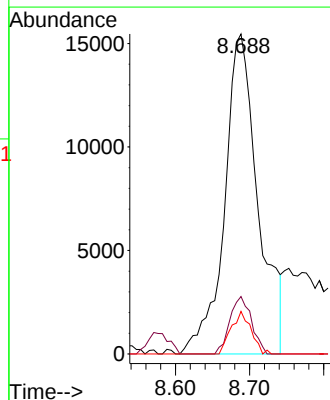
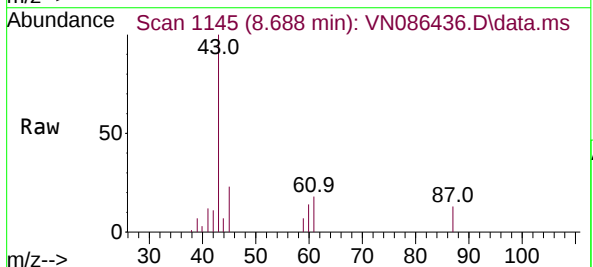
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

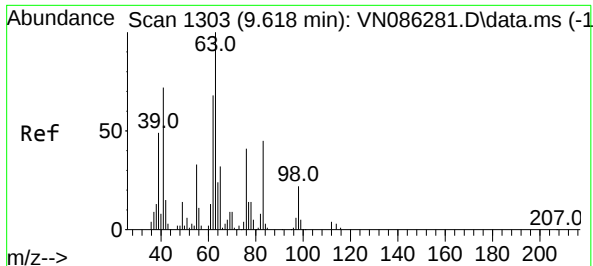
Tgt Ion:117 Resp: 16435
Ion Ratio Lower Upper
117 100
119 4.2 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.106 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 43 Resp: 48617
Ion Ratio Lower Upper
43 100
61 11.6 20.5 30.7#
87 7.9 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.399 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

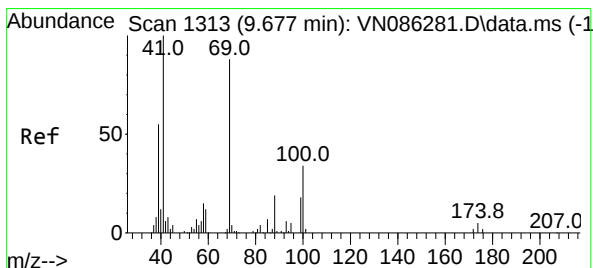
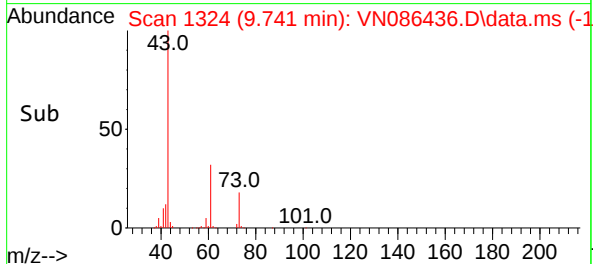
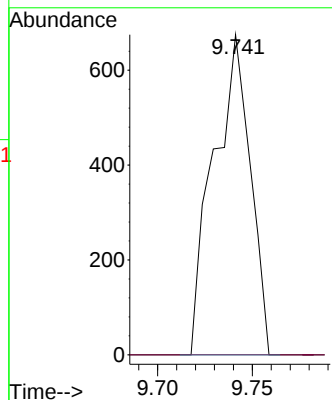
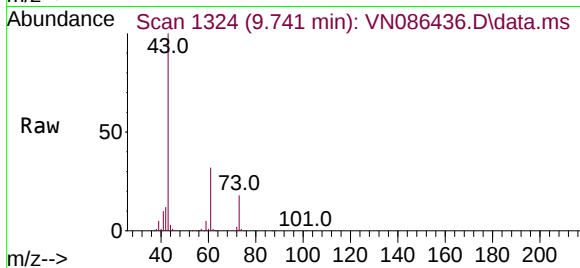
PB167775ZHE#06

Tgt Ion: 63 Resp: 911

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.889 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

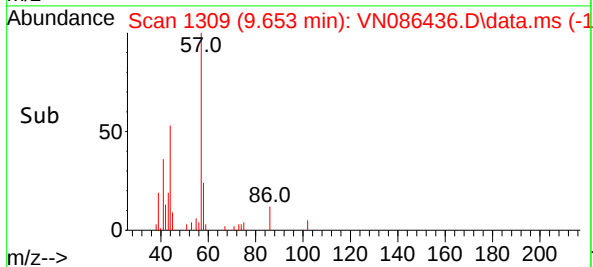
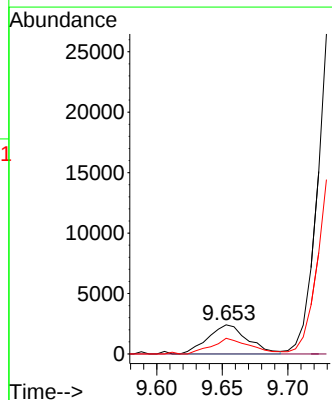
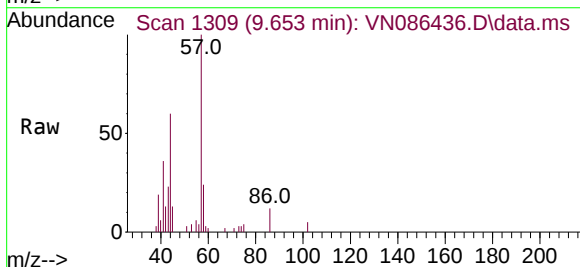
Tgt Ion: 41 Resp: 5082

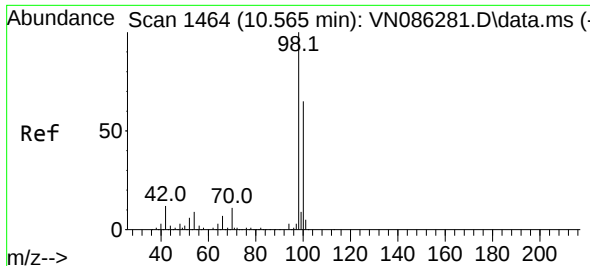
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 51.7 45.2 67.8

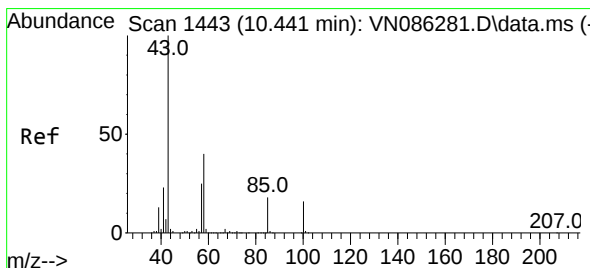
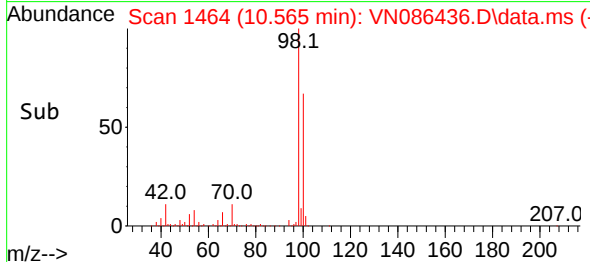
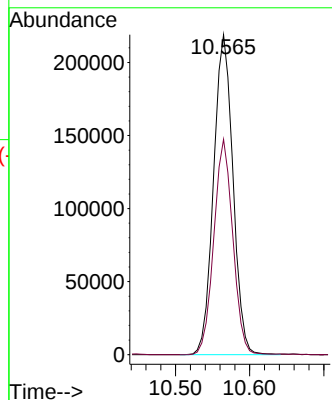
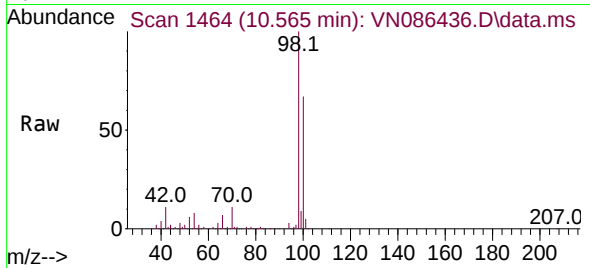




#50
Toluene-d8
Concen: 51.115 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

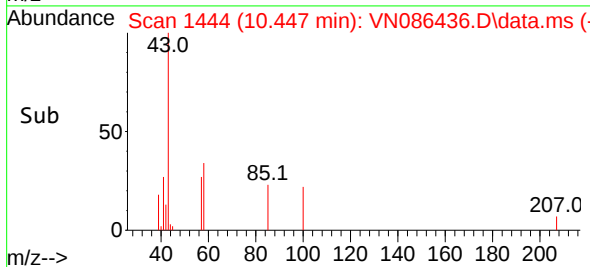
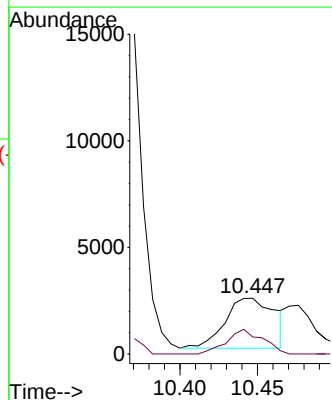
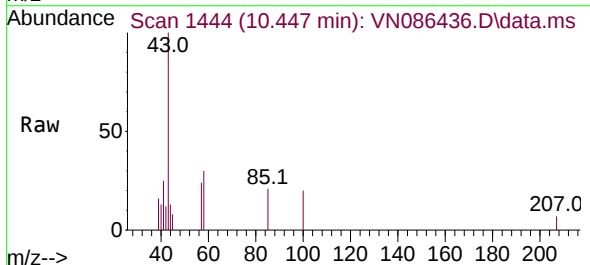
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

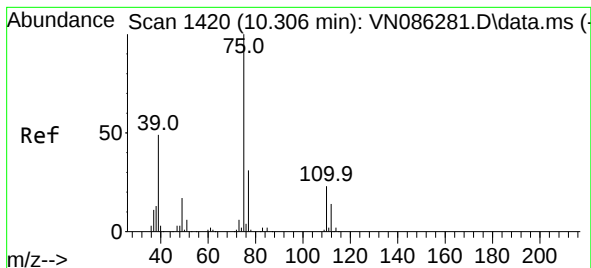
Tgt Ion: 98 Resp: 398013
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.669 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 43 Resp: 5235
Ion Ratio Lower Upper
43 100
58 35.6 32.2 48.4





#54

cis-1,3-Dichloropropene

Concen: 8.729 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.053 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#06

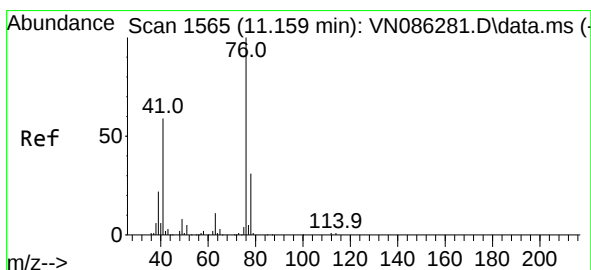
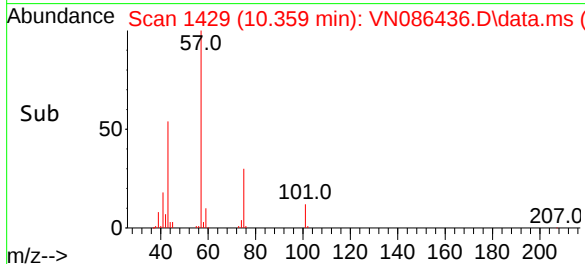
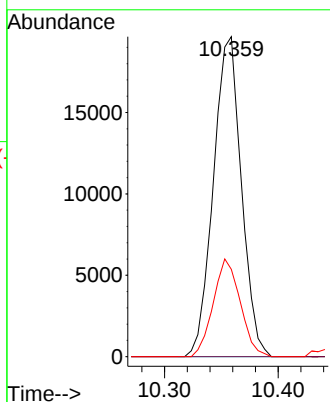
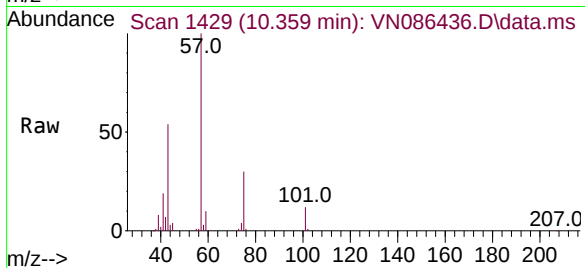
Tgt Ion: 75 Resp: 33612

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 27.3 39.3 58.9#



#57

1,3-Dichloropropane

Concen: 0.874 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086436.D

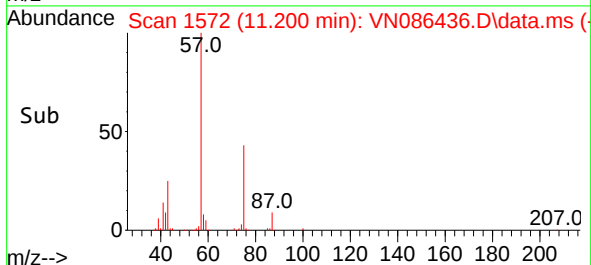
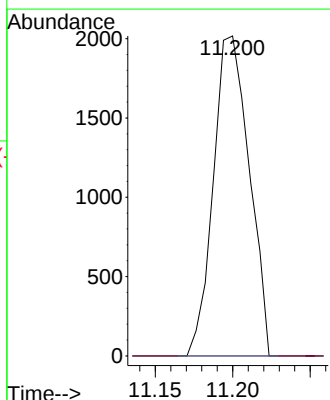
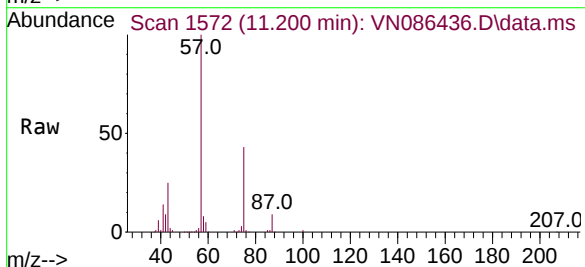
Acq: 30 Apr 2025 15:03

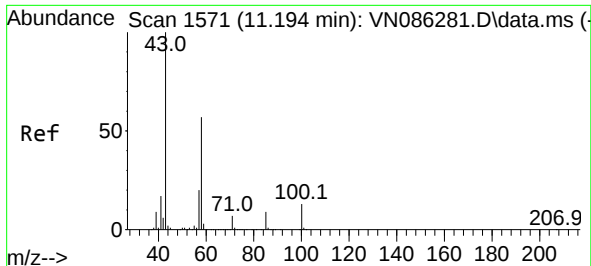
Tgt Ion: 76 Resp: 3244

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

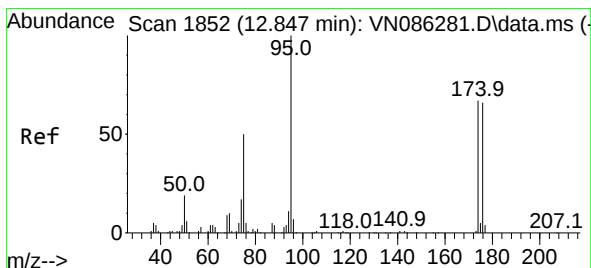
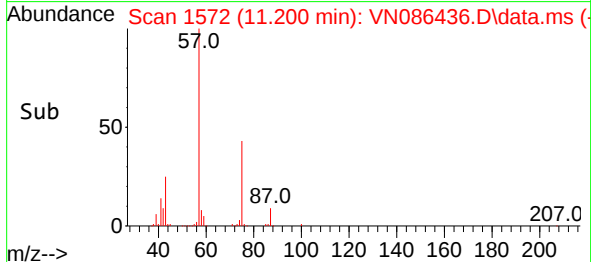
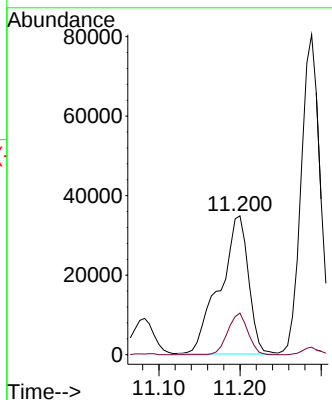
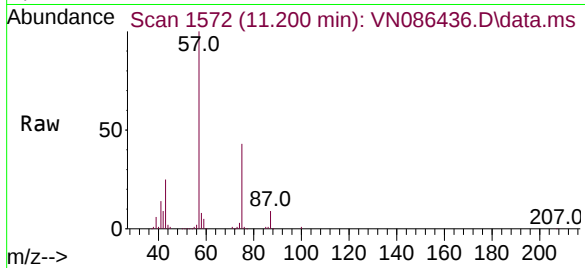




#59
2-Hexanone
Concen: 36.549 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

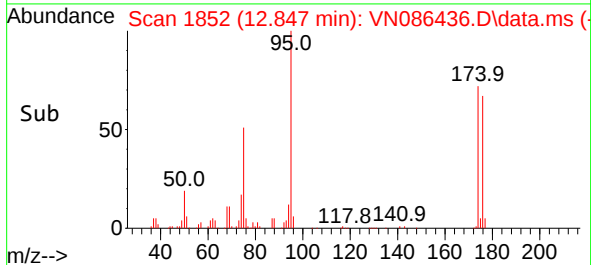
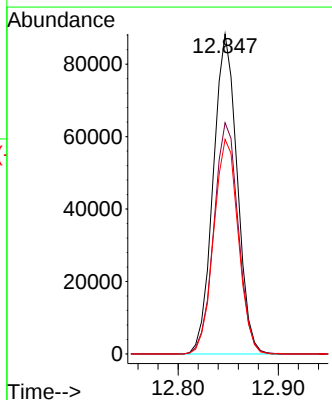
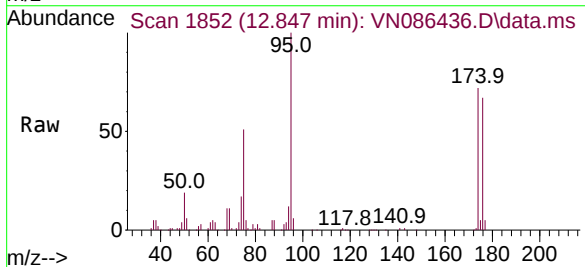
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

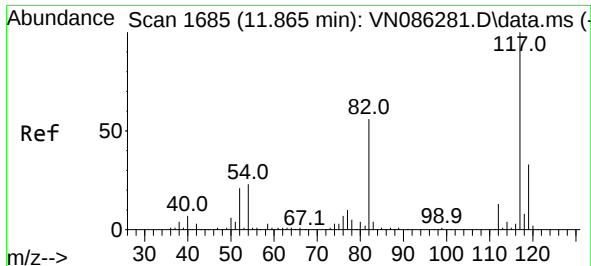
Tgt Ion: 43 Resp: 85047
Ion Ratio Lower Upper
43 100
58 21.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 51.536 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 95 Resp: 146369
Ion Ratio Lower Upper
95 100
174 73.8 0.0 133.4
176 68.9 0.0 129.2

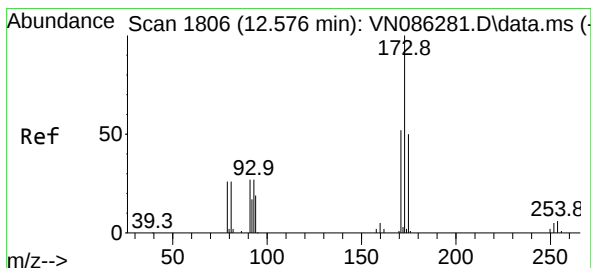
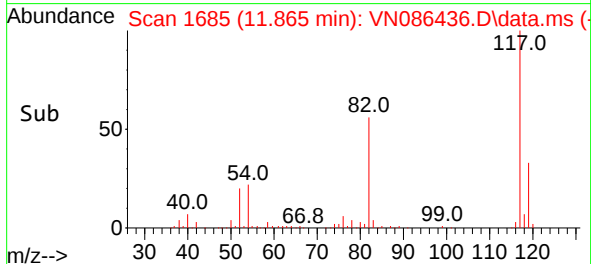
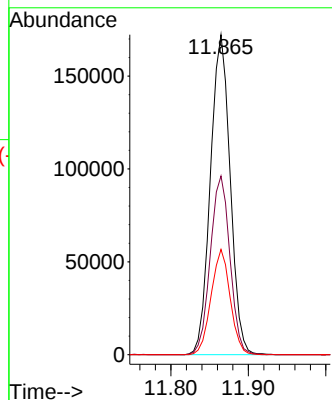
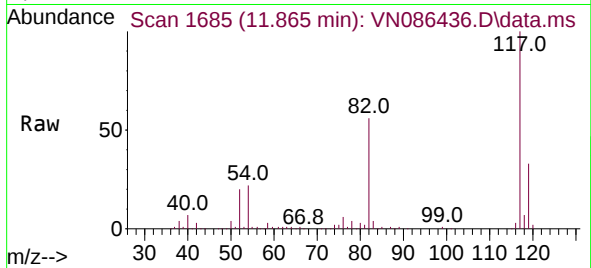




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

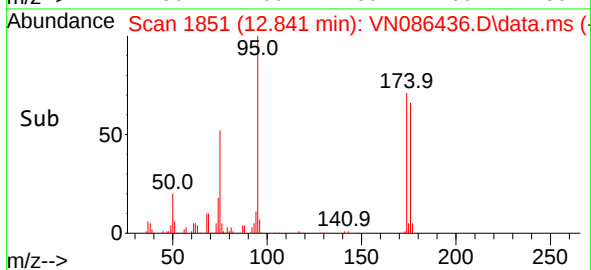
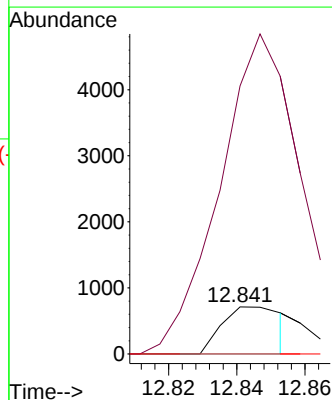
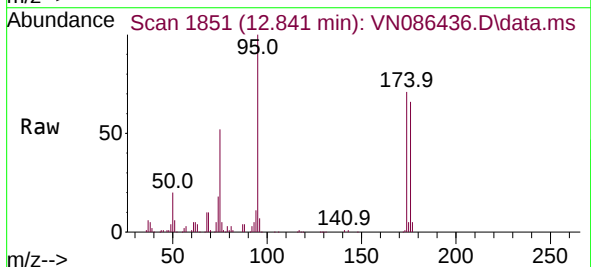
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

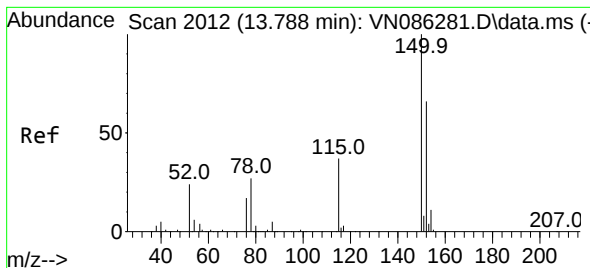
Tgt Ion:117 Resp: 304957
Ion Ratio Lower Upper
117 100
82 55.9 44.7 67.1
119 32.9 26.4 39.6



#71
Bromoform
Concen: 0.515 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion:173 Resp: 871
Ion Ratio Lower Upper
173 100
175 721.8 24.6 73.6#
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: VN086436.D

Acq: 30 Apr 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#06

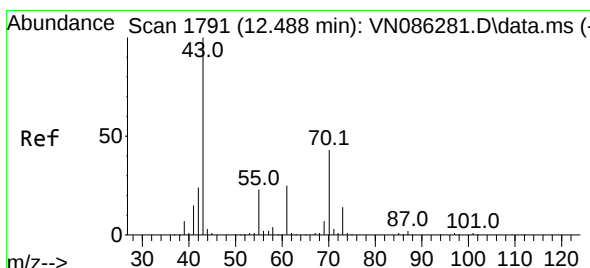
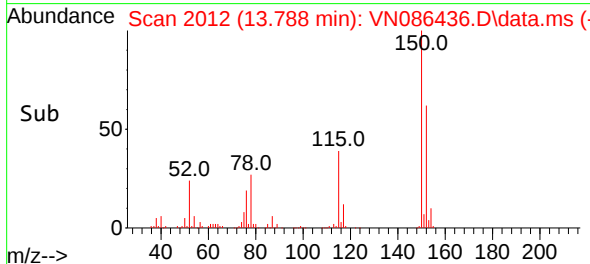
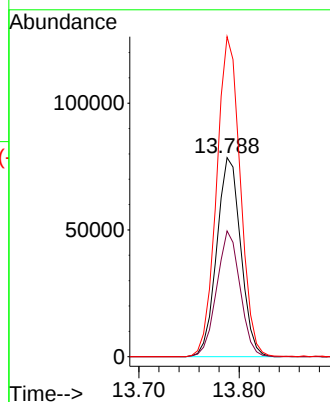
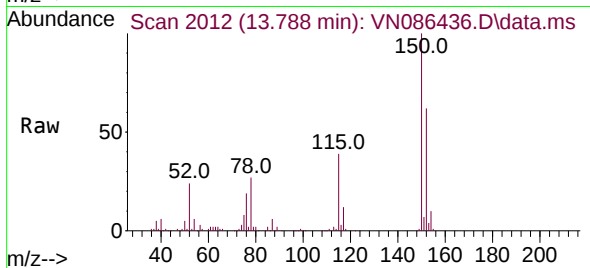
Tgt Ion:152 Resp: 130272

Ion Ratio Lower Upper

152 100

115 61.5 31.9 95.9

150 159.2 0.0 352.0



#74

N-ethyl acetate

Concen: 1.862 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.030 min

Lab File: VN086436.D

Acq: 30 Apr 2025 15:03

Tgt Ion: 43 Resp: 9879

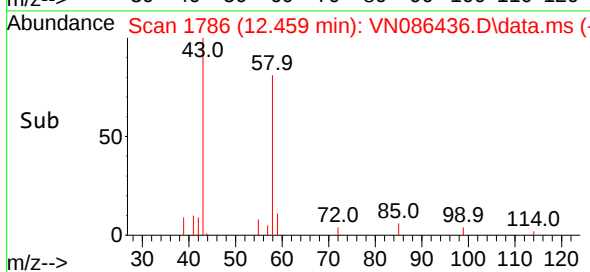
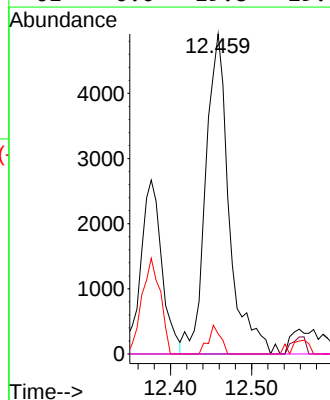
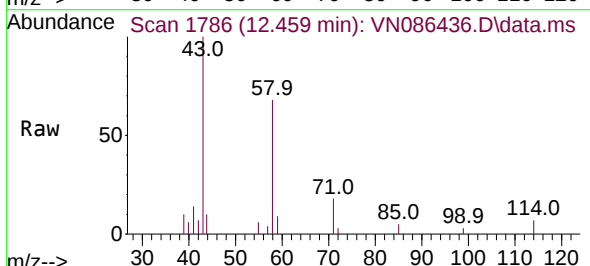
Ion Ratio Lower Upper

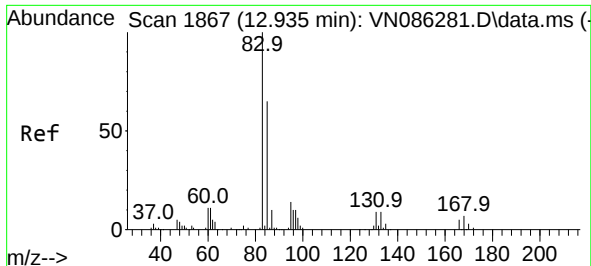
43 100

70 0.0 35.0 52.4#

55 4.6 19.0 28.4#

61 0.0 19.8 29.8#

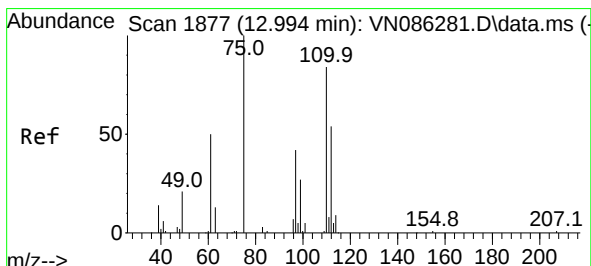
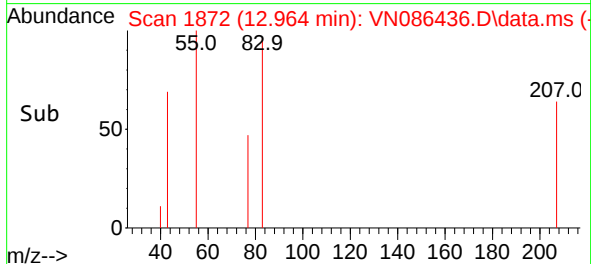
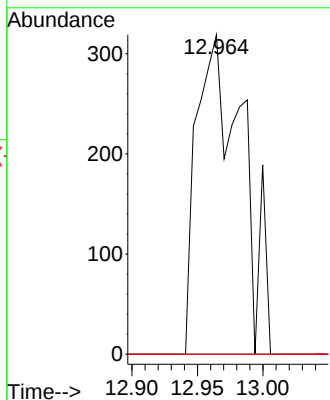
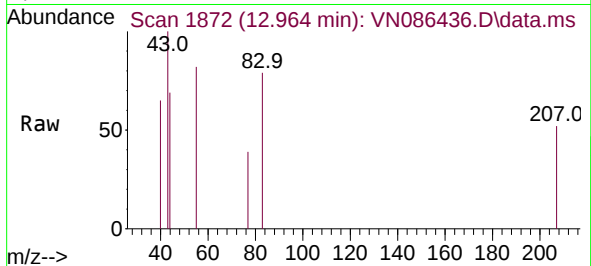




#75
1,1,2,2-Tetrachloroethane
Concen: 0.254 ug/l
RT: 12.964 min Scan# 1852
Delta R.T. 0.029 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

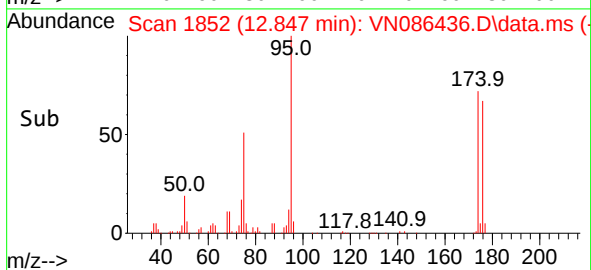
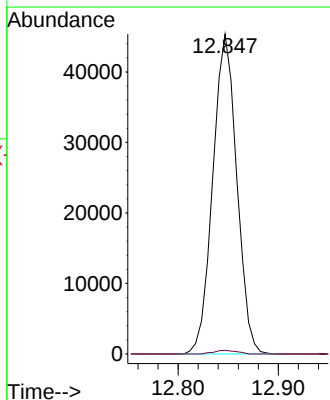
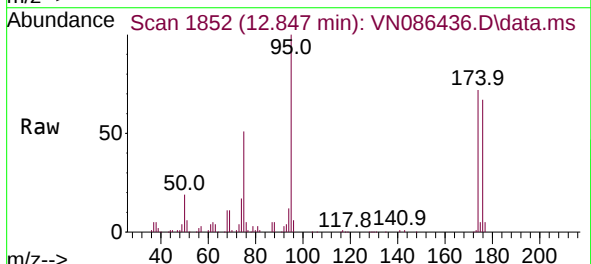
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#06

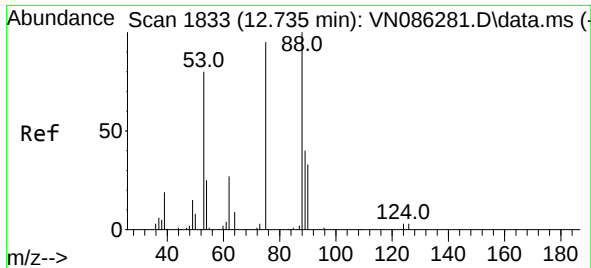
Tgt Ion: 83 Resp: 777
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 32.7 98.1#



#76
1,2,3-Trichloropropane
Concen: 24.495 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086436.D
Acq: 30 Apr 2025 15:03

Tgt Ion: 75 Resp: 75304
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.829 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086436.D
 Acq: 30 Apr 2025 15:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#06

Tgt Ion: 75 Resp: 75304
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

