

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086441.D
 Acq On : 30 Apr 2025 17:05
 Operator : JC\MD
 Sample : PB167775ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#11

Quant Time: May 01 01:36:01 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)

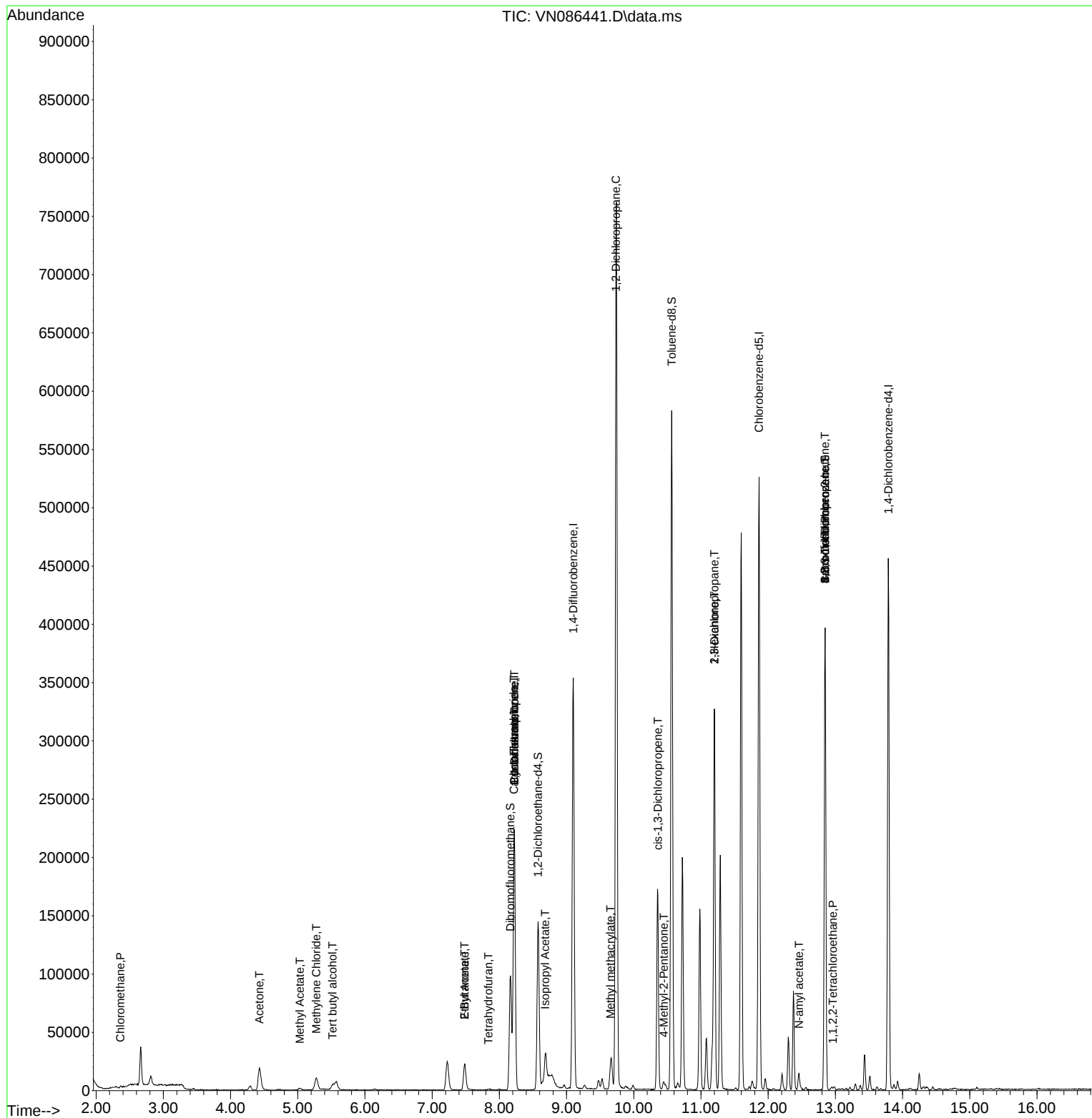
Internal Standards						
1) Pentafluorobenzene	8.224	168	165036	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	309904	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	295601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122158	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117534	49.112	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.220%
35) Dibromofluoromethane	8.165	113	73265	50.938	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.880%
50) Toluene-d8	10.565	98	397403	51.698	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.400%
62) 4-Bromofluorobenzene	12.847	95	141619	50.510	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.020%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	832	0.293	ug/l #	42
11) Tert butyl alcohol	5.518	59	7969	18.250	ug/l #	91
16) Acetone	4.430	43	37738	40.835	ug/l	96
18) Methyl Acetate	5.030	43	3566	1.241	ug/l #	79
20) Methylene Chloride	5.277	84	8290	3.747	ug/l	100
25) 2-Butanone	7.482	43	37176	24.957	ug/l	99
29) Tetrahydrofuran	7.835	42	591	0.593	ug/l #	32
31) Cyclohexane	8.224	56	3569	0.920	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13816	4.809	ug/l #	51
37) Ethyl Acetate	7.482	43	37176	12.292	ug/l #	68
38) Carbon Tetrachloride	8.218	117	16325	5.967	ug/l #	16
43) Isopropyl Acetate	8.682	43	49454	7.380	ug/l #	76
45) 1,2-Dichloropropane	9.735	63	894	0.397	ug/l #	43
48) Methyl methacrylate	9.653	41	5191	1.954	ug/l #	40
51) 4-Methyl-2-Pentanone	10.447	43	8129	2.625	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	32615	8.580	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	3033	0.827	ug/l #	43
59) 2-Hexanone	11.200	43	86003	37.438	ug/l #	51
71) Bromoform	12.847	173	684	0.417	ug/l #	1
74) N-amyl acetate	12.459	43	10883	2.188	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.964	83	1152	0.401	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	73643	25.546	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73643	61.352	ug/l #	10

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

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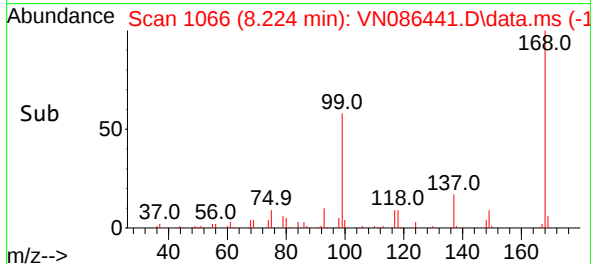
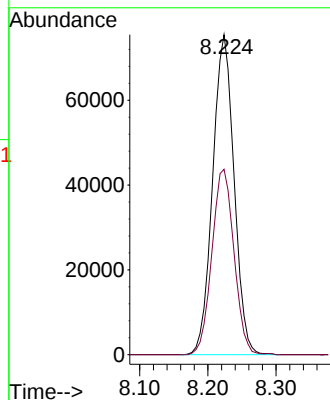
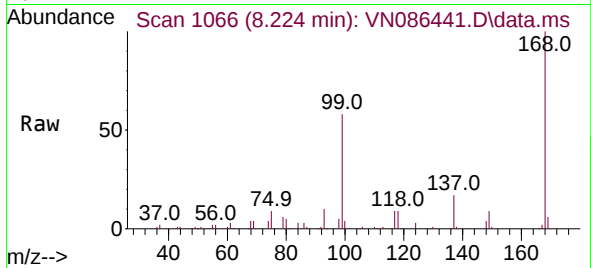




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

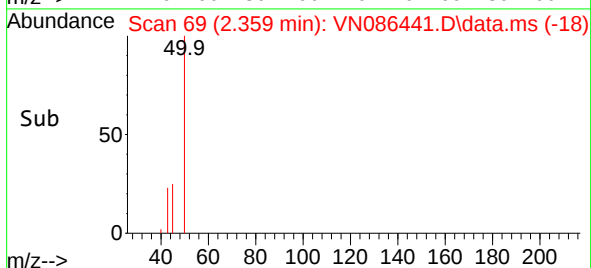
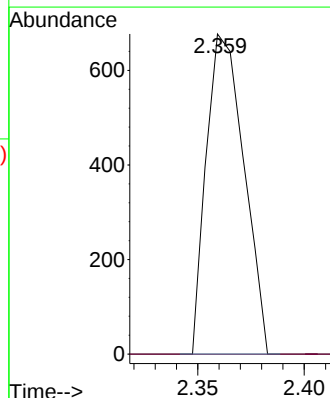
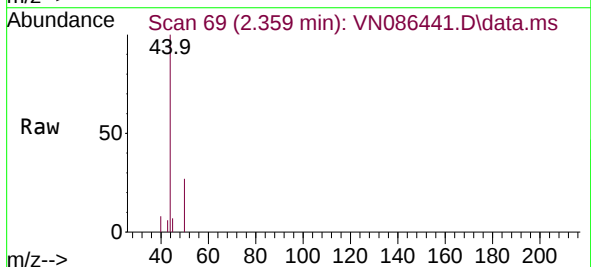
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

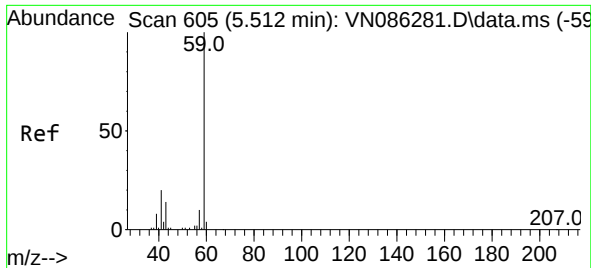
Tgt Ion:168 Resp: 165036
Ion Ratio Lower Upper
168 100
99 57.9 52.5 78.7



#3
Chloromethane
Concen: 0.293 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 50 Resp: 832
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

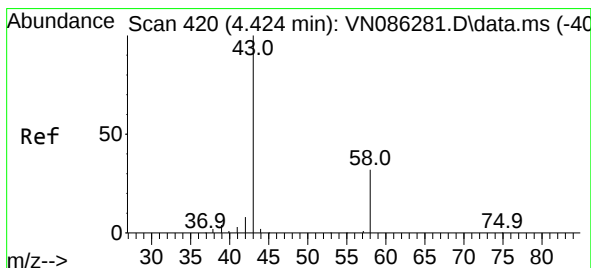
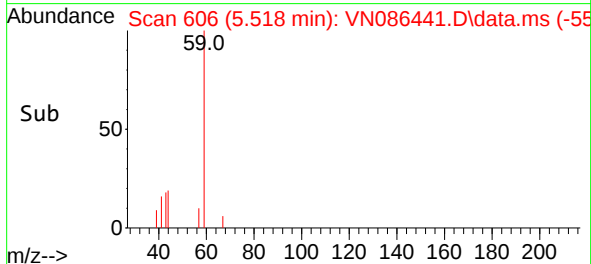
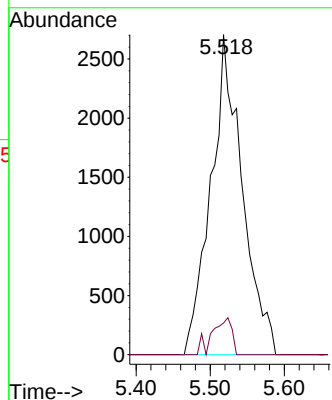
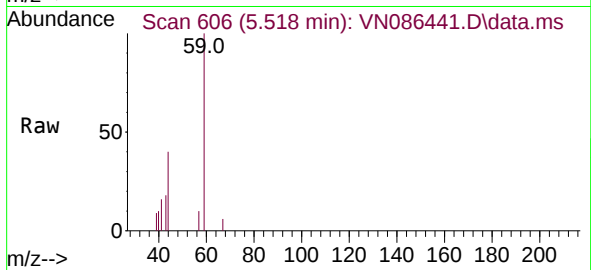




#11
Tert butyl alcohol
Concen: 18.250 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

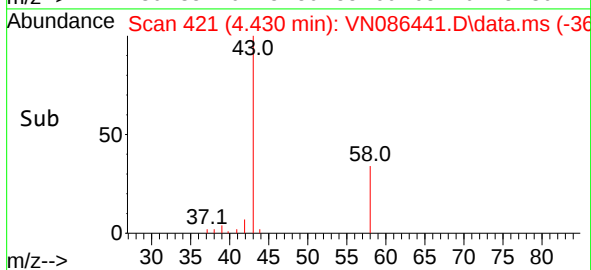
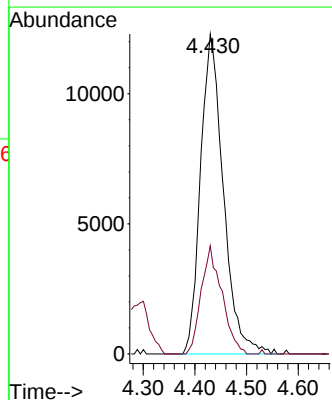
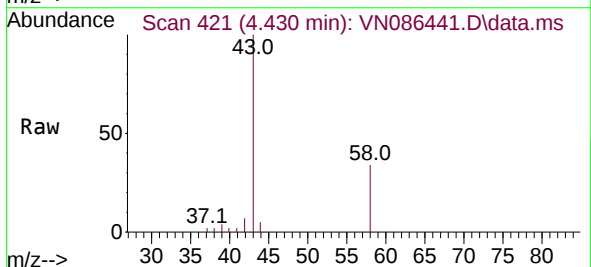
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

Tgt Ion: 59 Resp: 7969
Ion Ratio Lower Upper
59 100
57 7.2 8.3 12.5#



#16
Acetone
Concen: 40.835 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 43 Resp: 37738
Ion Ratio Lower Upper
43 100
58 33.8 25.3 37.9





#18

Methyl Acetate

Concen: 1.241 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN086441.D

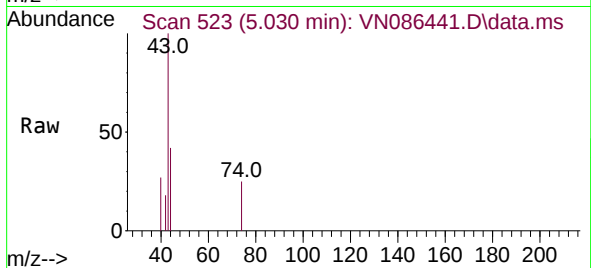
Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#11

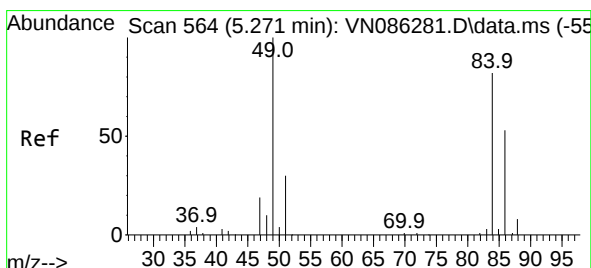
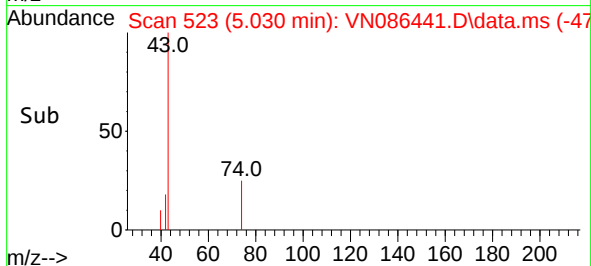
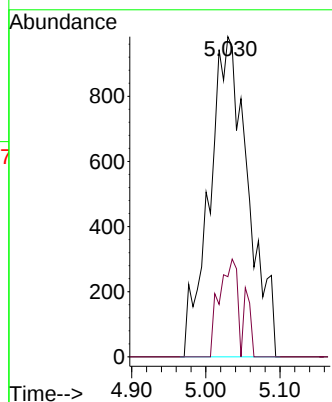


Tgt Ion: 43 Resp: 3566

Ion Ratio Lower Upper

43 100

74 14.1 19.8 29.6#



#20

Methylene Chloride

Concen: 3.747 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

Tgt Ion: 84 Resp: 8290

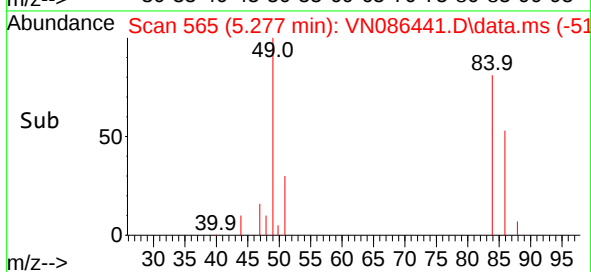
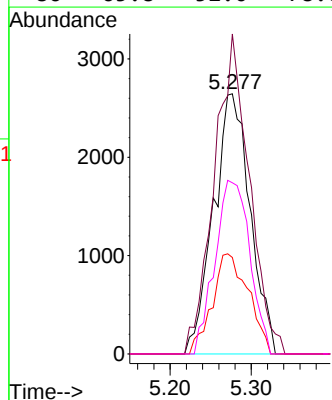
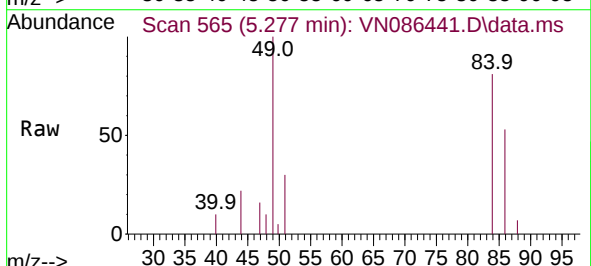
Ion Ratio Lower Upper

84 100

49 123.0 98.2 147.2

51 37.1 29.8 44.6

86 65.8 52.0 78.0

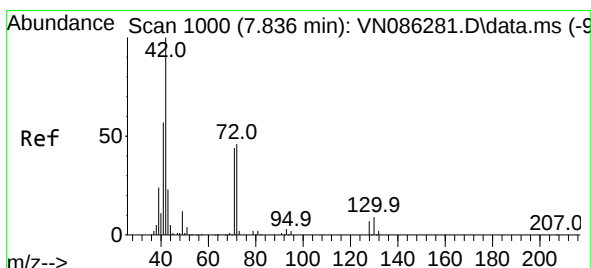
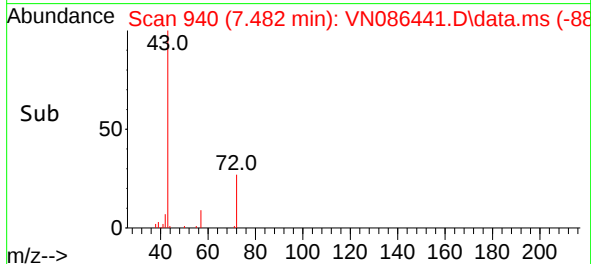
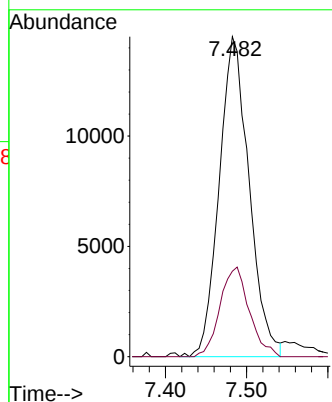
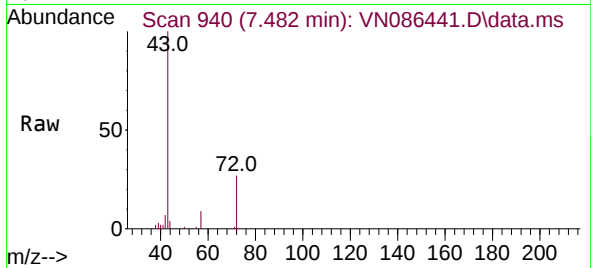




#25
2-Butanone
Concen: 24.957 ug/l
RT: 7.482 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

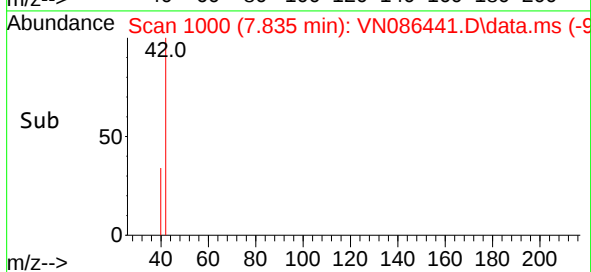
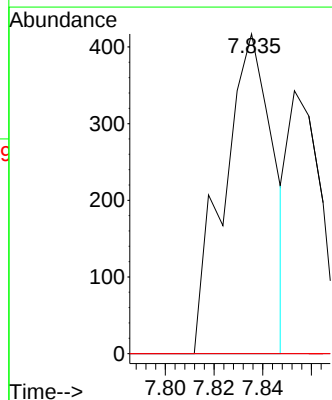
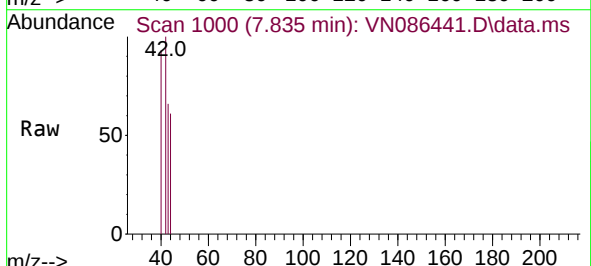
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

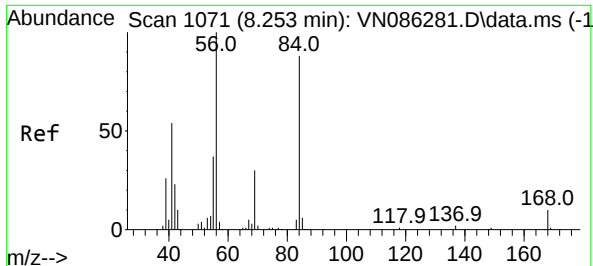
Tgt Ion: 43 Resp: 37176
Ion Ratio Lower Upper
43 100
72 26.7 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.593 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

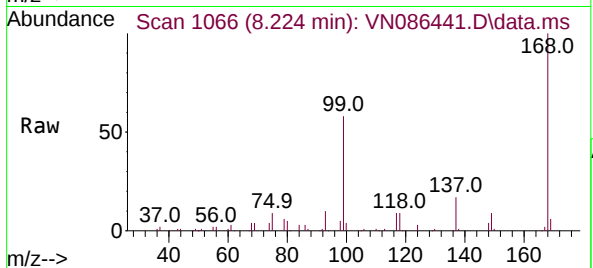
Tgt Ion: 42 Resp: 591
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#



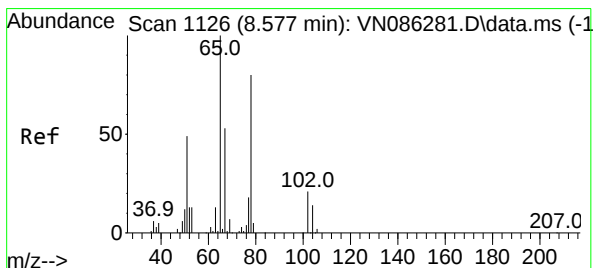
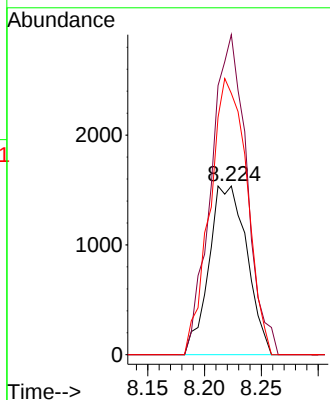
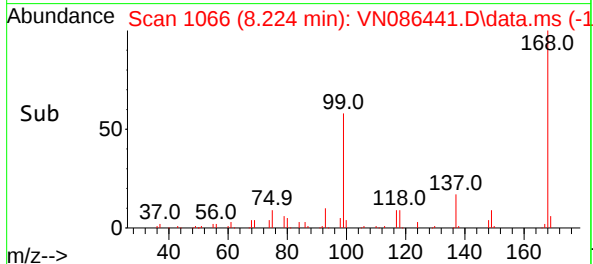


#31
Cyclohexane
Concen: 0.920 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

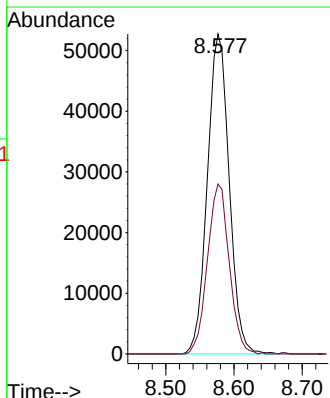
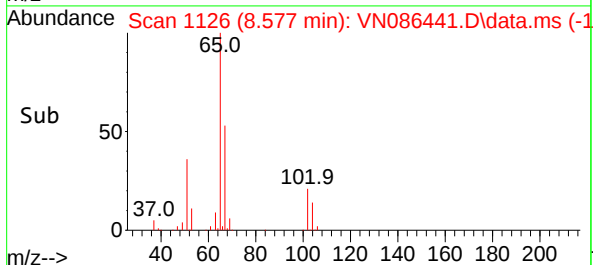
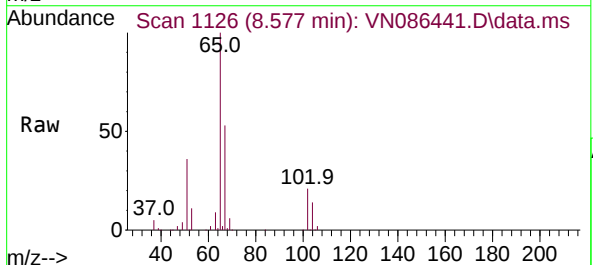


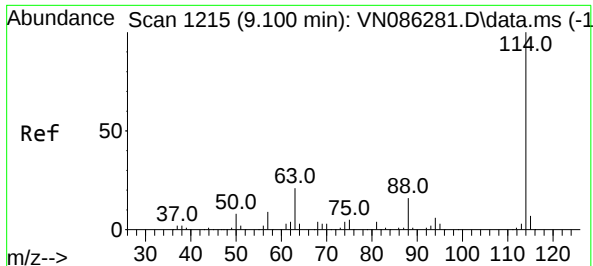
Tgt Ion: 56 Resp: 3569
Ion Ratio Lower Upper
56 100
69 189.7 24.2 36.2#
84 154.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 49.112 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 65 Resp: 117534
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#11

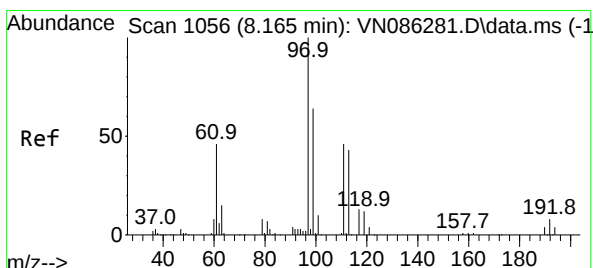
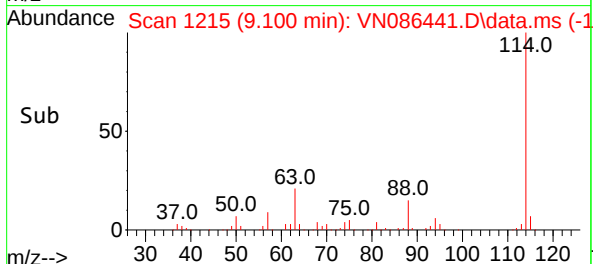
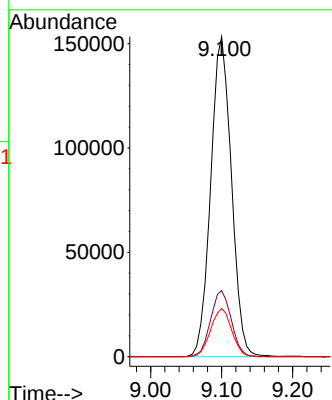
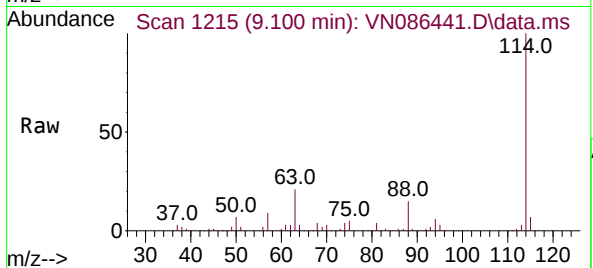
Tgt Ion:114 Resp: 309904

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

88 15.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 50.938 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

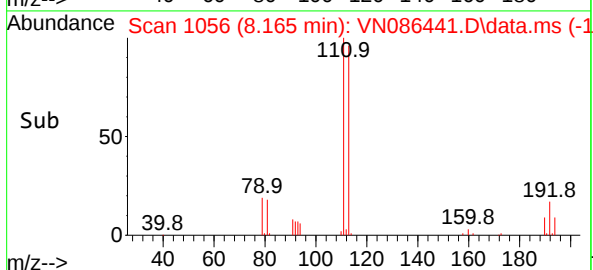
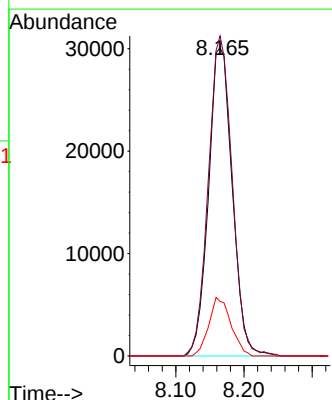
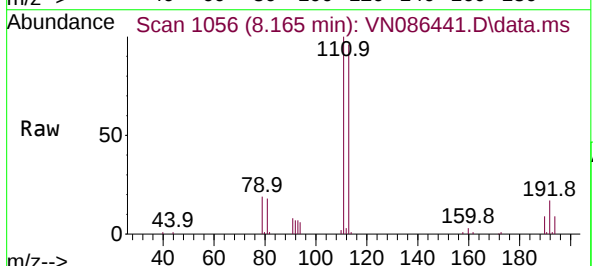
Tgt Ion:113 Resp: 73265

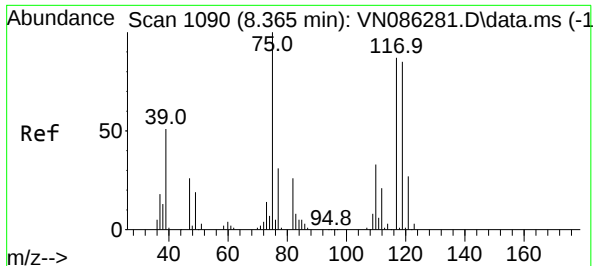
Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.809 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086441.D

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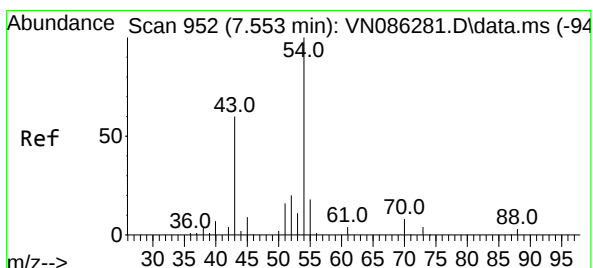
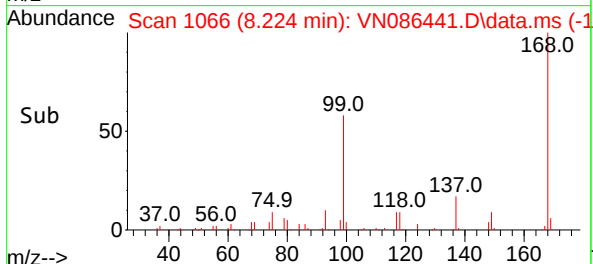
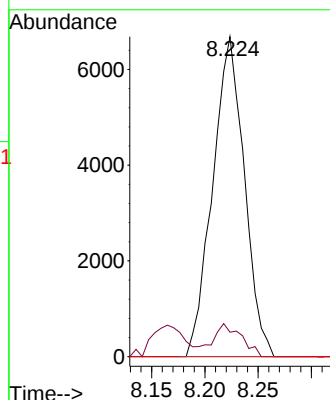
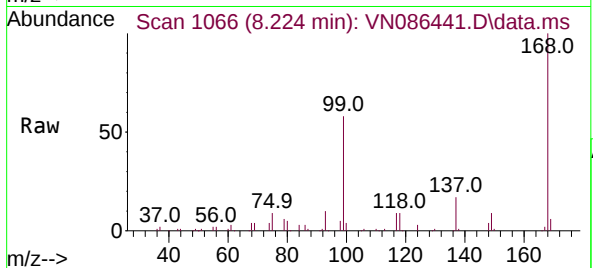
Tgt Ion: 75 Resp: 13816

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 12.292 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.071 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

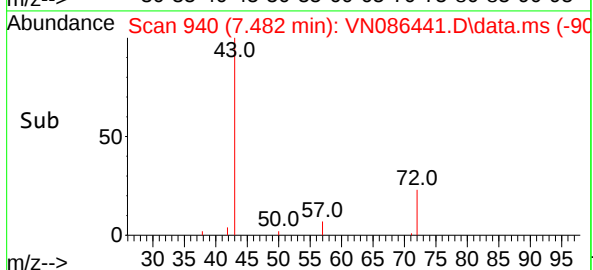
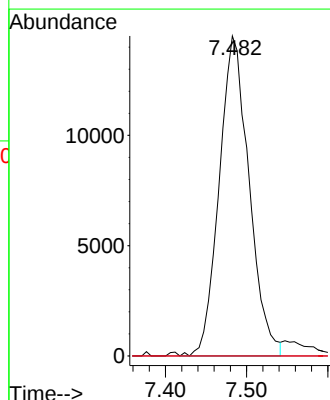
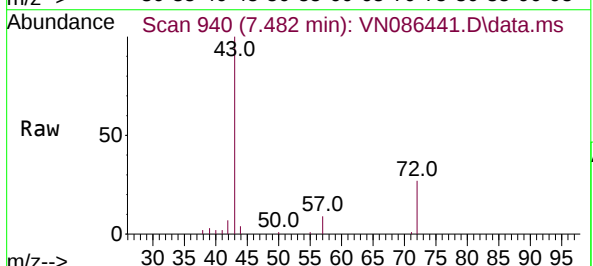
Tgt Ion: 43 Resp: 37176

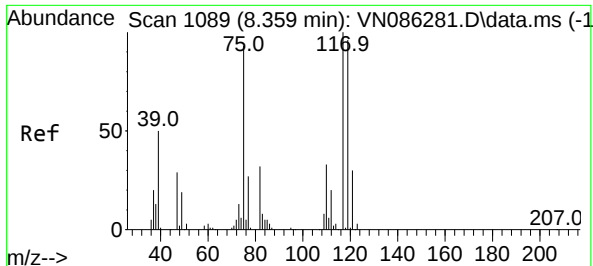
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

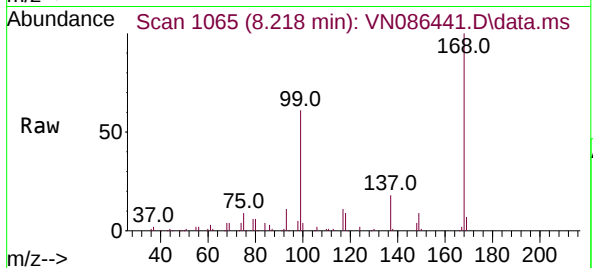
70 0.0 9.2 13.8#



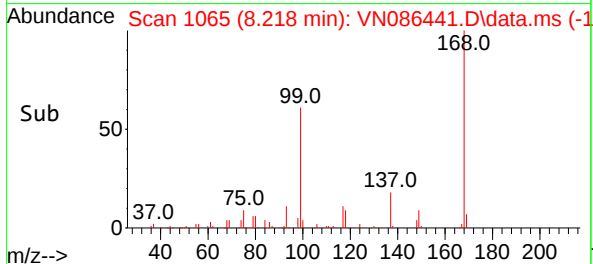
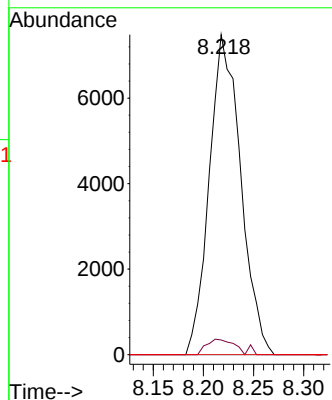


#38
Carbon Tetrachloride
Concen: 5.967 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

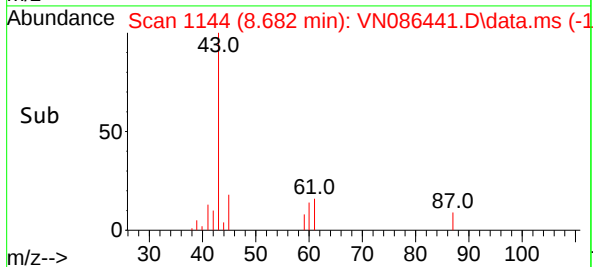
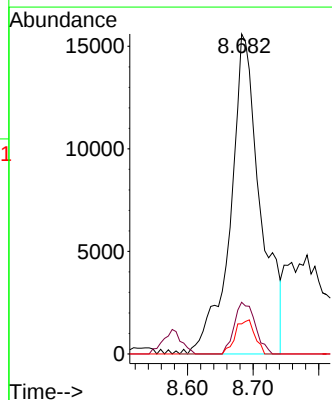
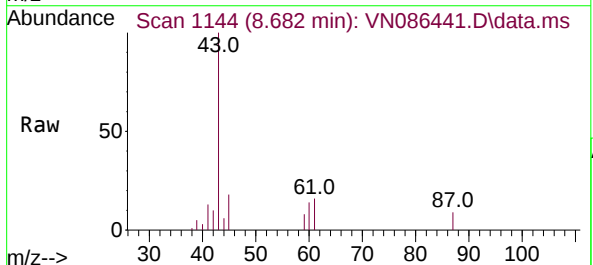


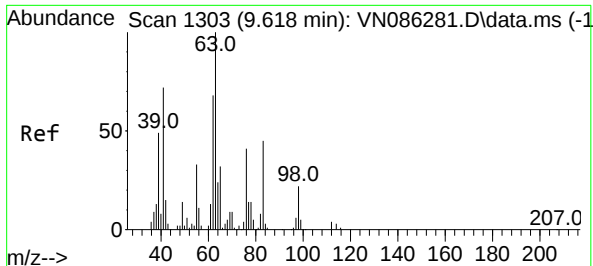
Tgt Ion:117 Resp: 16325
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.380 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 43 Resp: 49454
Ion Ratio Lower Upper
43 100
61 11.3 20.5 30.7#
87 6.9 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.397 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

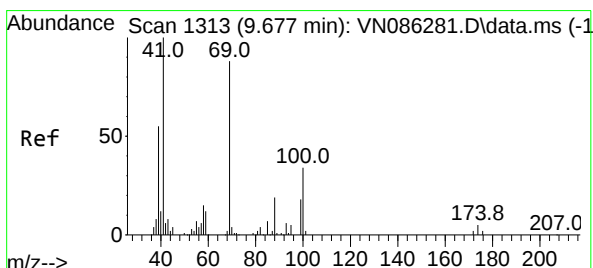
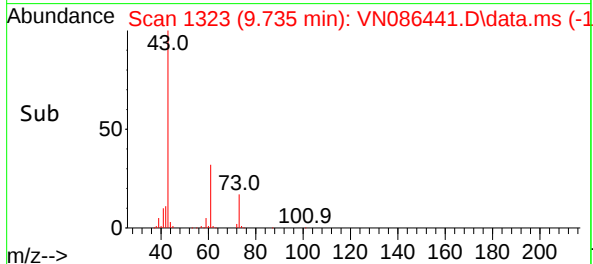
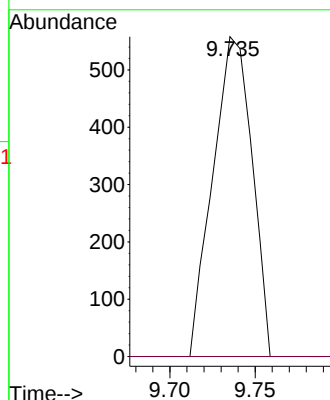
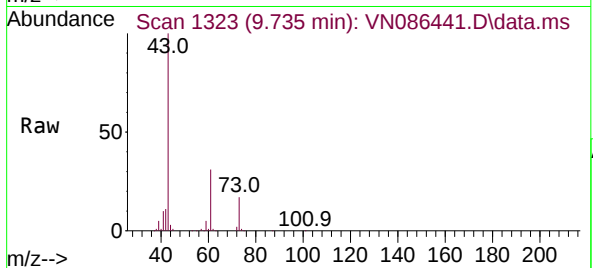
PB167775ZHE#11

Tgt Ion: 63 Resp: 894

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.954 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

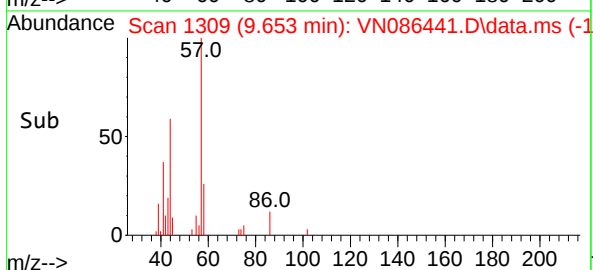
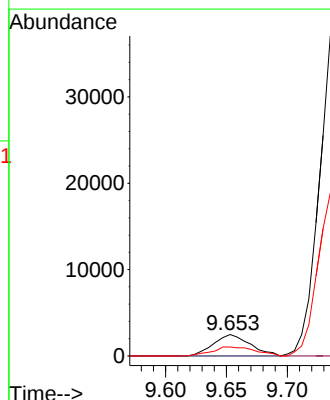
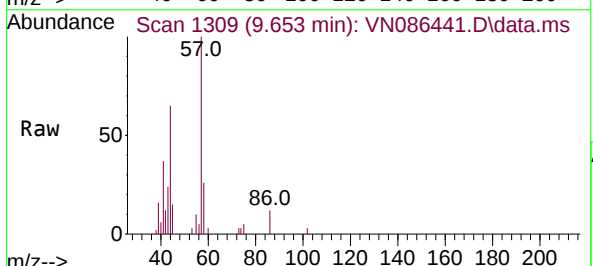
Tgt Ion: 41 Resp: 5191

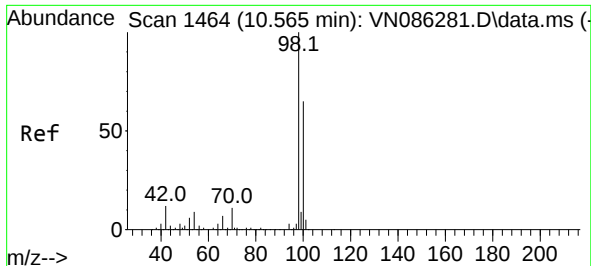
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 50.0 45.2 67.8

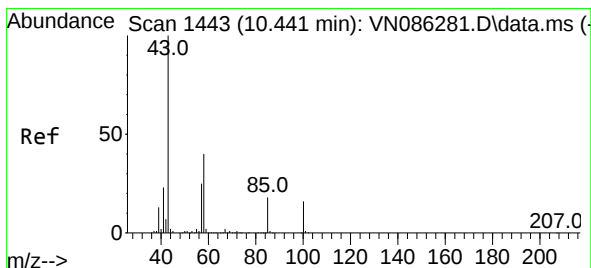
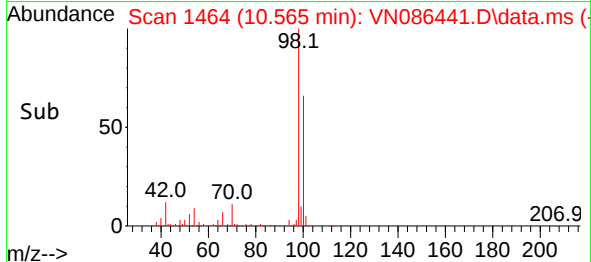
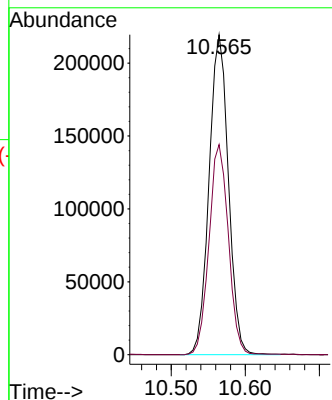
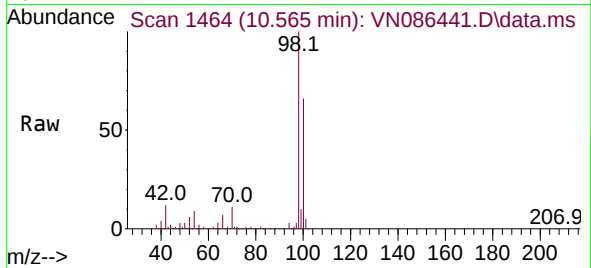




#50
Toluene-d8
Concen: 51.698 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

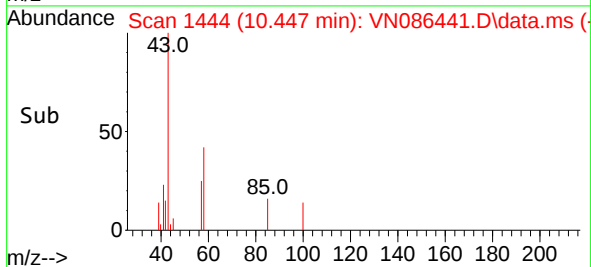
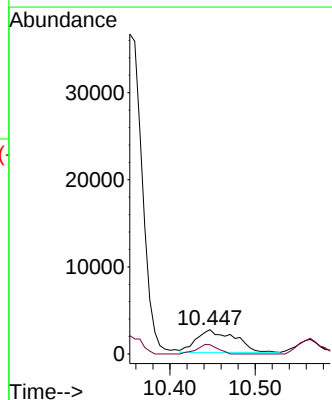
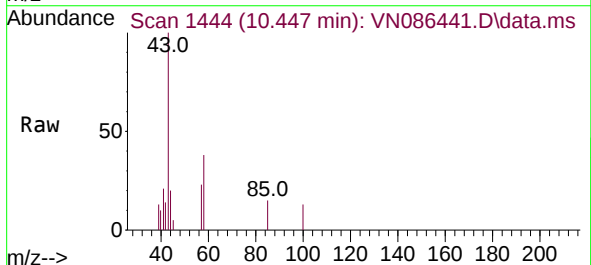
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

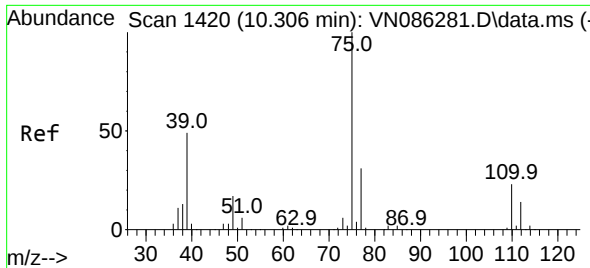
Tgt Ion: 98 Resp: 397403
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 2.625 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 43 Resp: 8129
Ion Ratio Lower Upper
43 100
58 22.8 32.2 48.4#

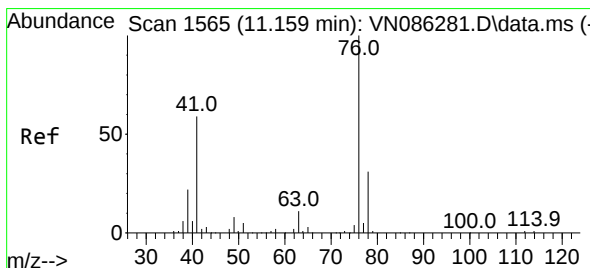
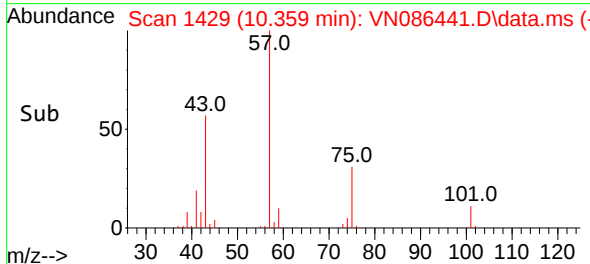
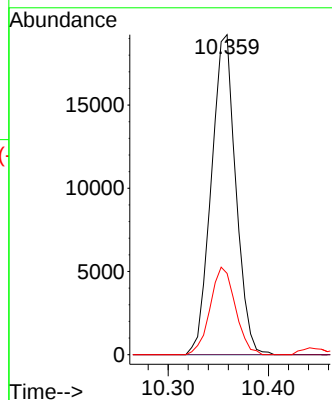
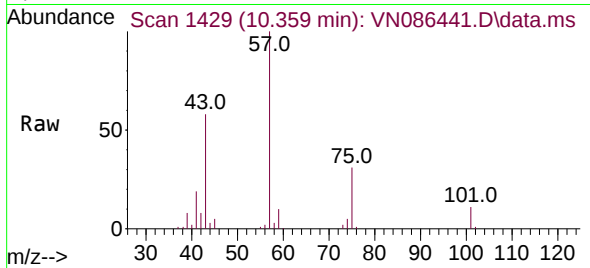




#54
 cis-1,3-Dichloropropene
 Concen: 8.580 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN086441.D
 Acq: 30 Apr 2025 17:05

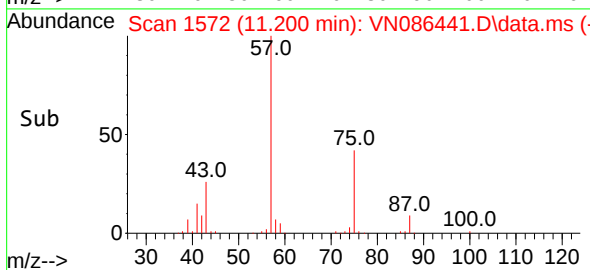
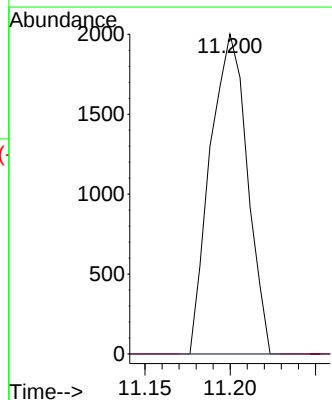
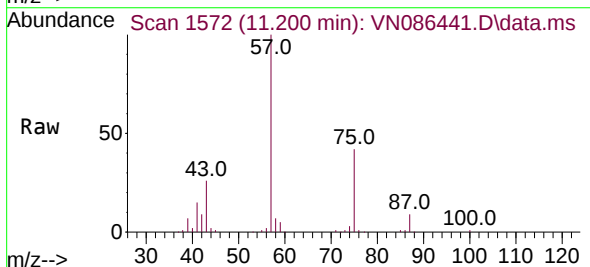
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#11

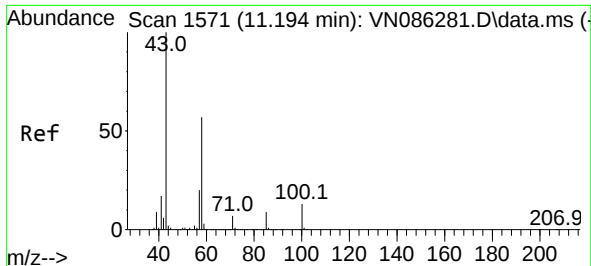
Tgt Ion: 75 Resp: 32615
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 25.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.827 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086441.D
 Acq: 30 Apr 2025 17:05

Tgt Ion: 76 Resp: 3033
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

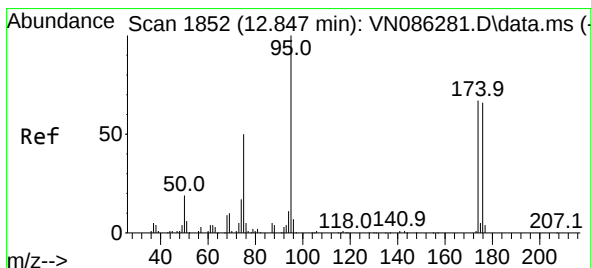
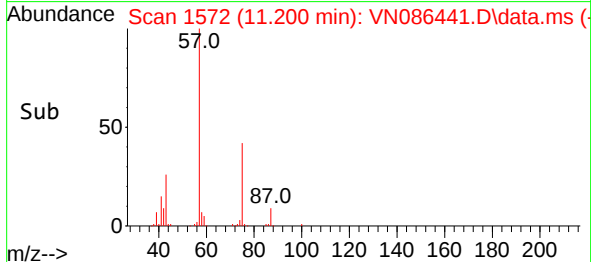
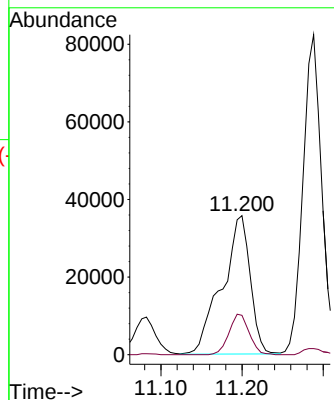
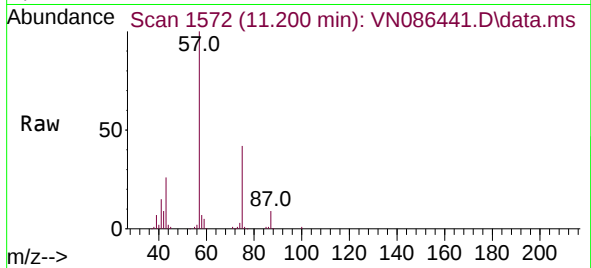




#59
2-Hexanone
Concen: 37.438 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

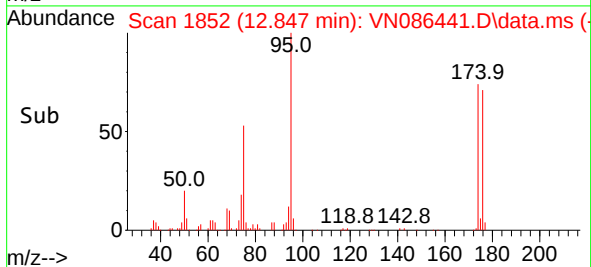
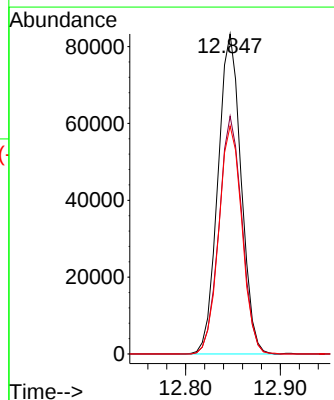
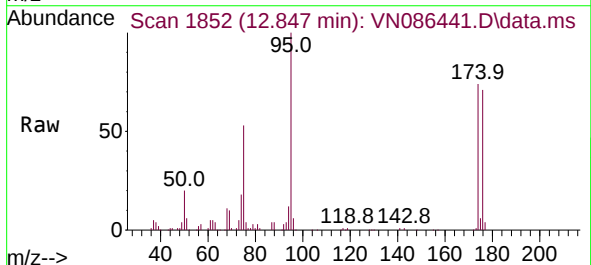
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

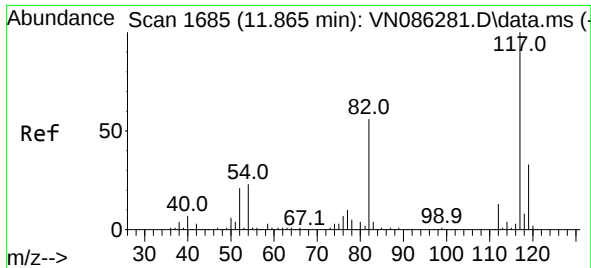
Tgt Ion: 43 Resp: 86003
Ion Ratio Lower Upper
43 100
58 20.9 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.510 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion: 95 Resp: 141619
Ion Ratio Lower Upper
95 100
174 73.5 0.0 133.4
176 71.3 0.0 129.2

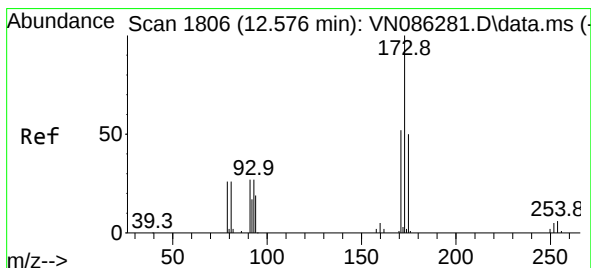
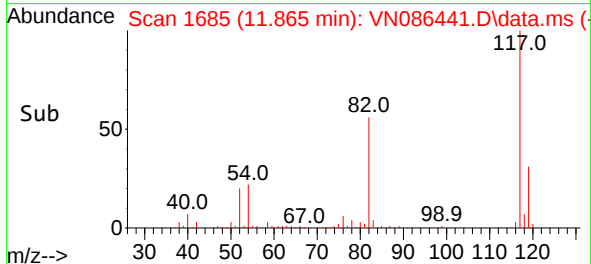
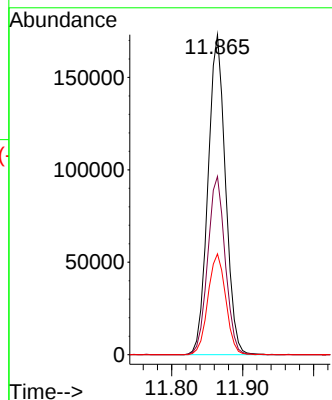
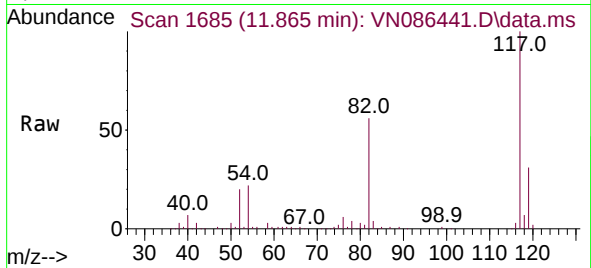




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

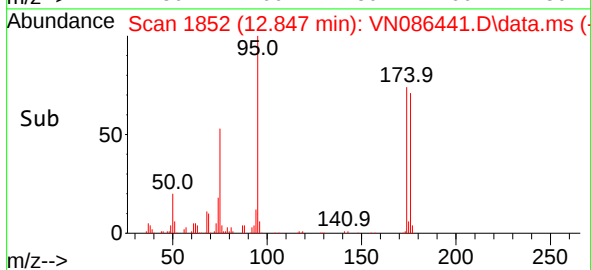
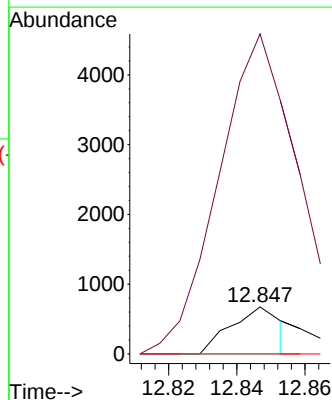
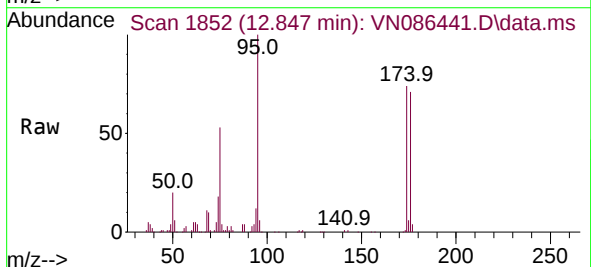
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#11

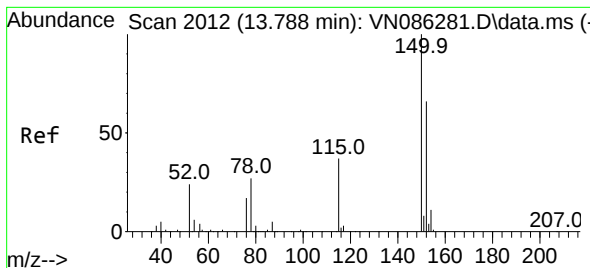
Tgt Ion:117 Resp: 295601
Ion Ratio Lower Upper
117 100
82 55.7 44.7 67.1
119 31.5 26.4 39.6



#71
Bromoform
Concen: 0.417 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086441.D
Acq: 30 Apr 2025 17:05

Tgt Ion:173 Resp: 684
Ion Ratio Lower Upper
173 100
175 863.2 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: VN086441.D

Acq: 30 Apr 2025 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#11

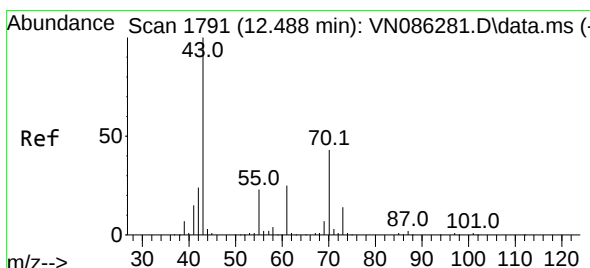
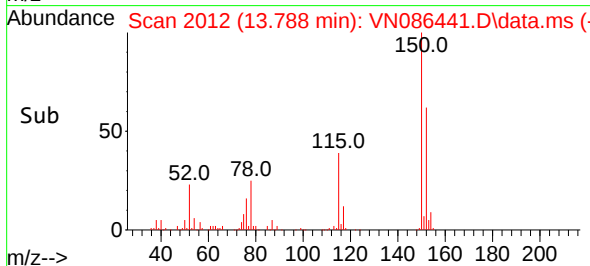
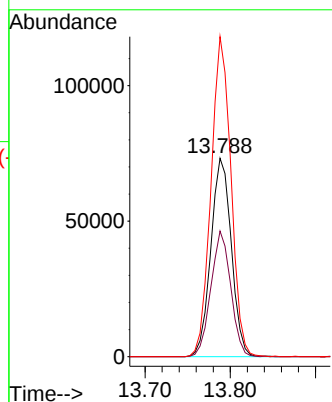
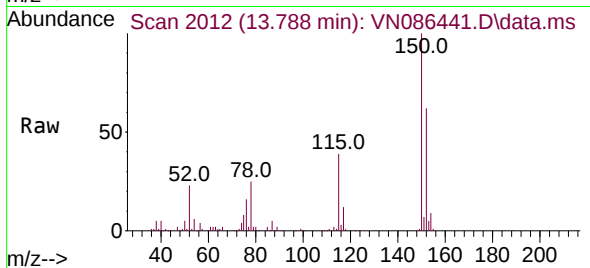
Tgt Ion:152 Resp: 122158

Ion Ratio Lower Upper

152 100

115 61.3 31.9 95.9

150 156.9 0.0 352.0



#74

N-ethyl acetate

Concen: 2.188 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.030 min

Lab File: VN086441.D

Acq: 30 Apr 2025 17:05

Tgt Ion: 43 Resp: 10883

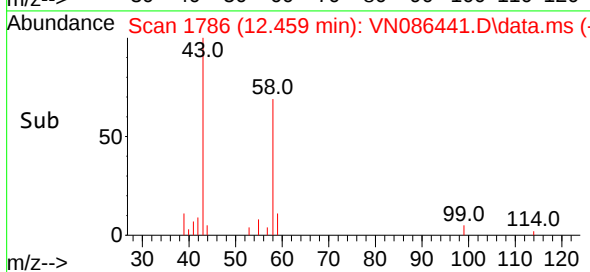
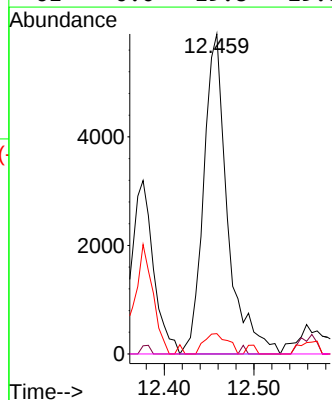
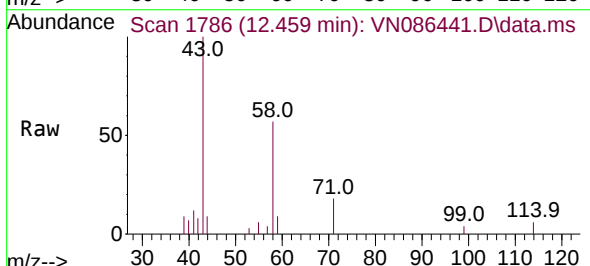
Ion Ratio Lower Upper

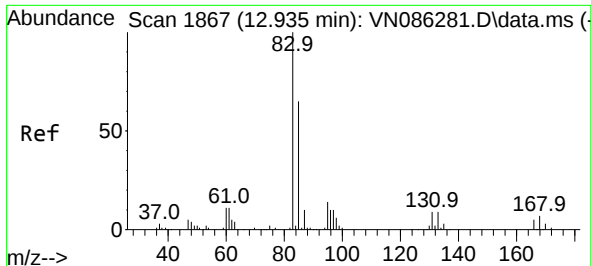
43 100

70 0.0 35.0 52.4#

55 6.3 19.0 28.4#

61 0.0 19.8 29.8#

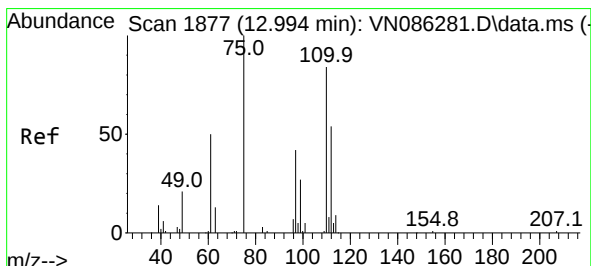
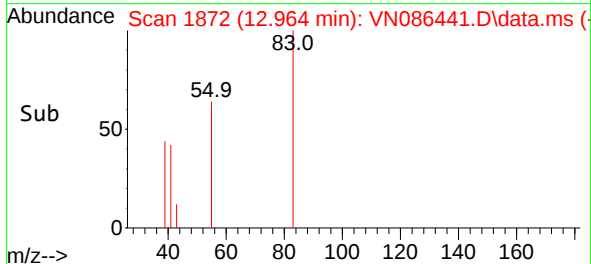
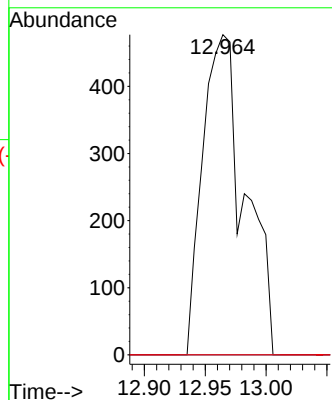
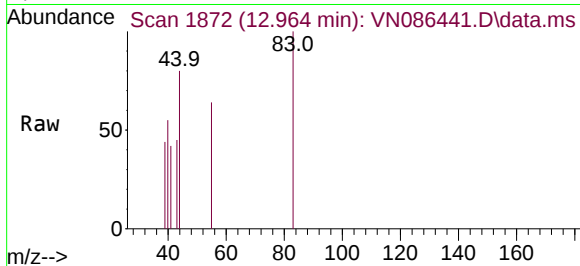




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.401 ug/l
 RT: 12.964 min Scan# 1852
 Delta R.T. 0.029 min
 Lab File: VN086441.D
 Acq: 30 Apr 2025 17:05

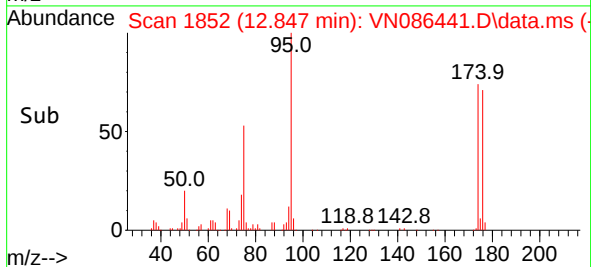
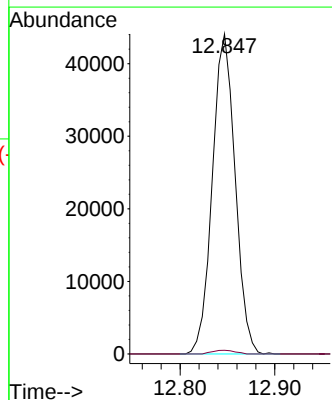
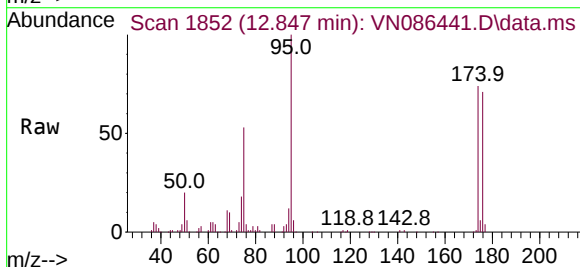
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#11

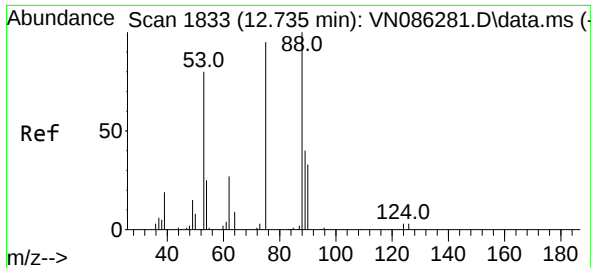
Tgt Ion: 83 Resp: 1152
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.7 14.1#
 85 0.0 32.7 98.1#



#76
 1,2,3-Trichloropropane
 Concen: 25.546 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086441.D
 Acq: 30 Apr 2025 17:05

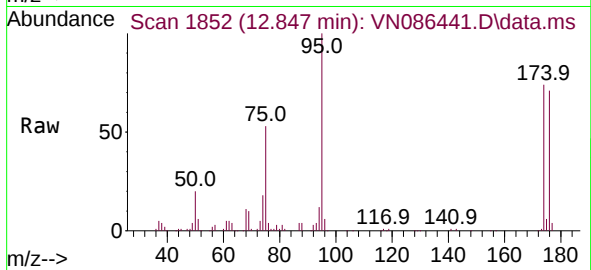
Tgt Ion: 75 Resp: 73643
 Ion Ratio Lower Upper
 75 100
 77 1.2 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.352 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086441.D
 Acq: 30 Apr 2025 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#11



Tgt Ion: 75 Resp: 73643
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

