

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087133.D
 Acq On : 20 Jun 2025 13:04
 Operator : JC\MD
 Sample : Q2367-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

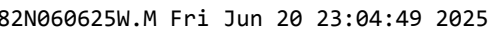
Instrument :
 MSVOA_N
 ClientSampleId :
 EP-4

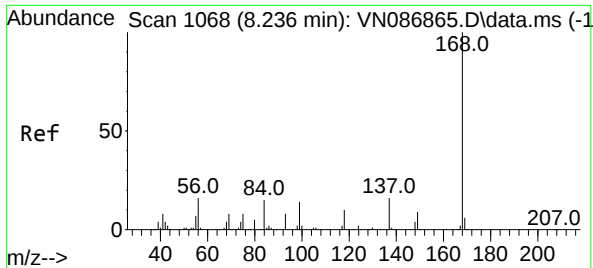
Quant Time: Jun 20 23:04:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	217895	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	434510	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	395910	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	186922	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	152750	52.359	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 104.720%		
35) Dibromofluoromethane	8.171	113	131339	51.005	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.020%		
50) Toluene-d8	10.565	98	536753	52.655	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.300%		
62) 4-Bromofluorobenzene	12.847	95	188760	49.840	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 99.680%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.541	59	330	0.417	ug/l #	73
16) Acetone	4.447	43	28691	18.545	ug/l	98
18) Methyl Acetate	5.047	43	25608	5.680	ug/l	98
20) Methylene Chloride	5.294	84	4758	1.643	ug/l #	79
25) 2-Butanone	7.494	43	4292	1.707	ug/l	90
29) Tetrahydrofuran	7.865	42	749	0.457	ug/l #	50
31) Cyclohexane	8.224	56	3791	0.801	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	15746	4.104	ug/l #	49
37) Ethyl Acetate	7.571	43	16383	3.354	ug/l	99
38) Carbon Tetrachloride	8.224	117	20999	5.574	ug/l #	16
43) Isopropyl Acetate	8.688	43	10735	1.369	ug/l	96
45) 1,2-Dichloropropane	9.735	63	1622	0.531	ug/l #	43
48) Methyl methacrylate	9.741	41	82591	22.889	ug/l #	36
51) 4-Methyl-2-Pentanone	10.359	43	99420	21.065	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	61276	12.277	ug/l #	57
57) 1,3-Dichloropropane	11.212	76	3787	0.740	ug/l #	43
59) 2-Hexanone	11.212	43	39774	13.083	ug/l #	54
71) Bromoform	12.847	173	548	0.263	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	86729	19.519	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	86729	44.933	ug/l #	16

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

Quant Time: Jun 20 23:04:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

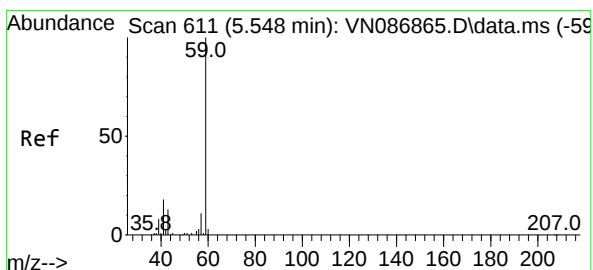
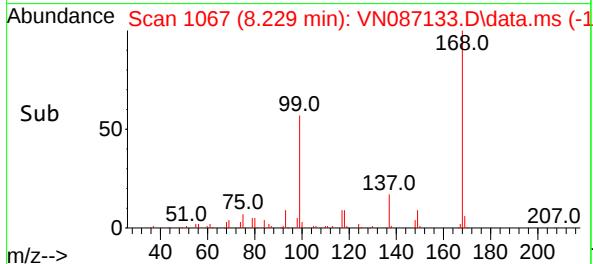
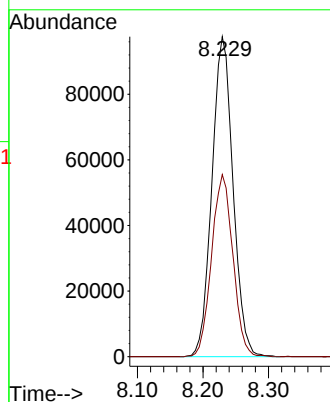
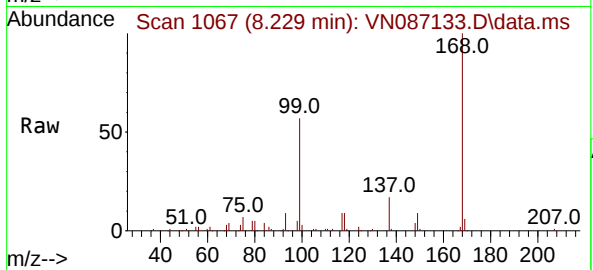




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

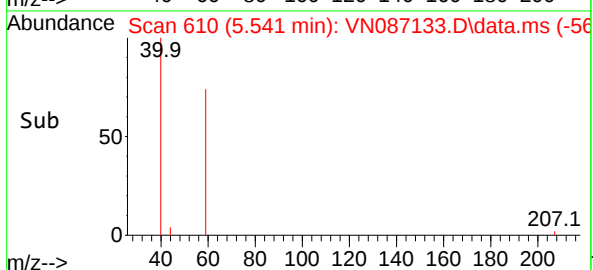
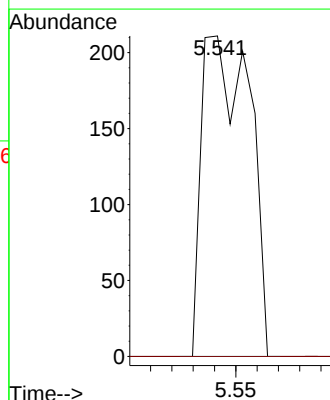
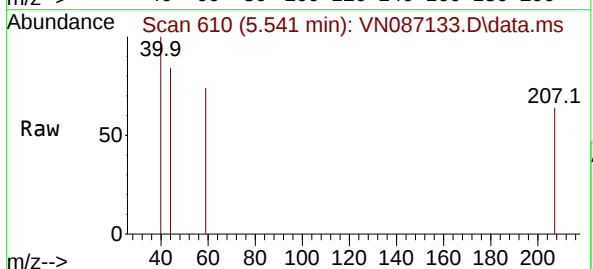
Instrument :
MSVOA_N
ClientSampleId :
EP-4

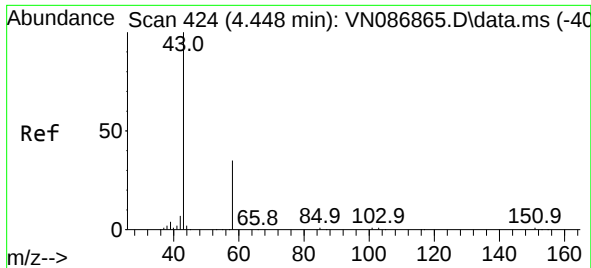
Tgt Ion:168 Resp: 217895
Ion Ratio Lower Upper
168 100
99 56.9 49.1 73.7



#11
Tert butyl alcohol
Concen: 0.417 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#16

Acetone

Concen: 18.545 ug/l

RT: 4.447 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

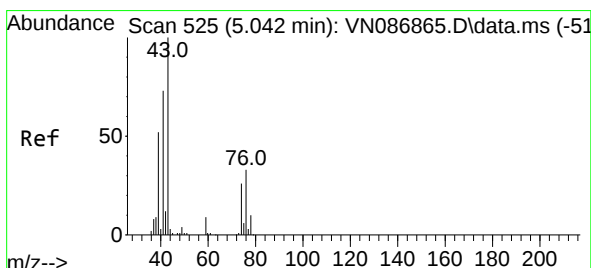
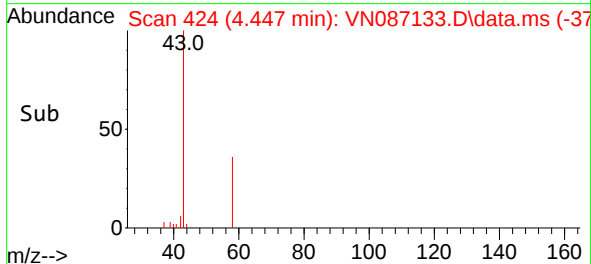
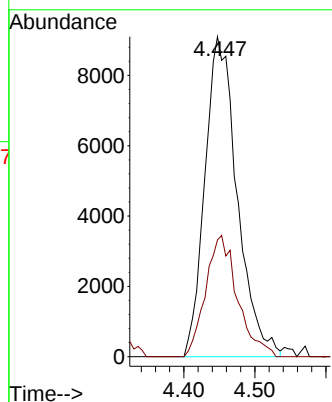
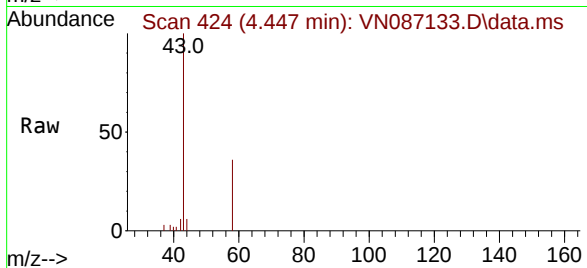
EP-4

Tgt Ion: 43 Resp: 28691

Ion Ratio Lower Upper

43 100

58 36.4 28.0 42.0



#18

Methyl Acetate

Concen: 5.680 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN087133.D

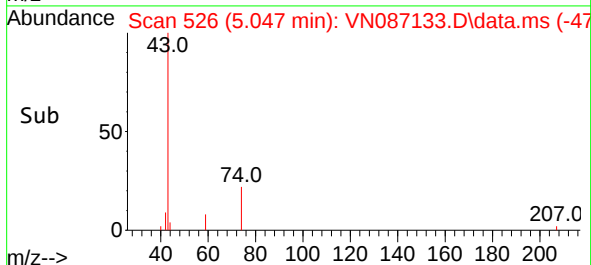
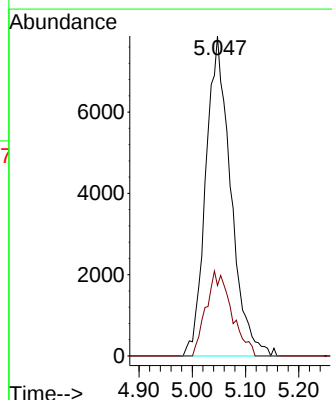
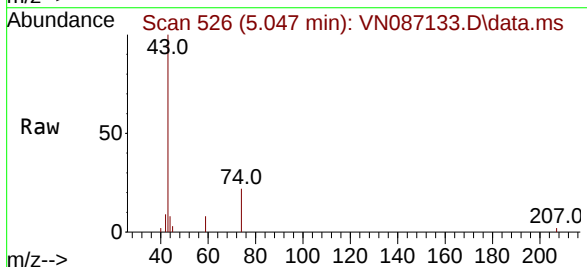
Acq: 20 Jun 2025 13:04

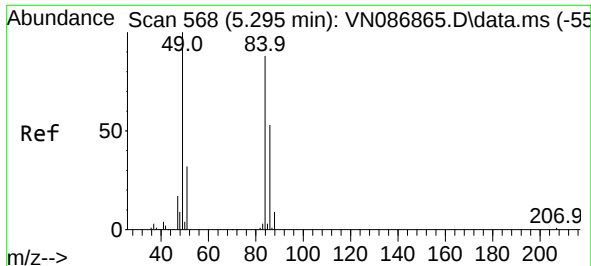
Tgt Ion: 43 Resp: 25608

Ion Ratio Lower Upper

43 100

74 27.1 20.7 31.1

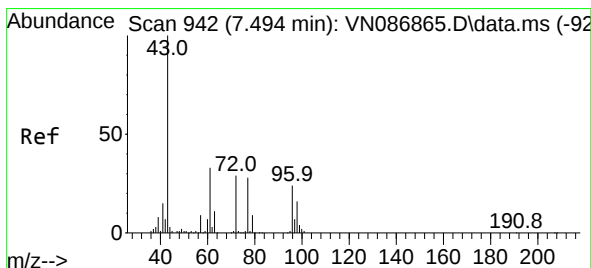
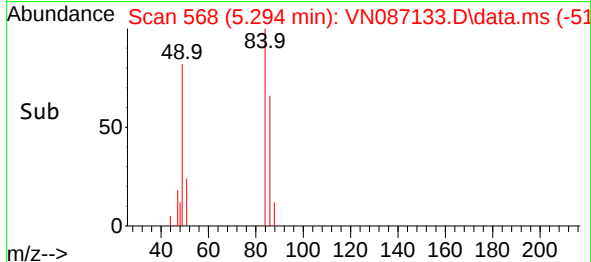
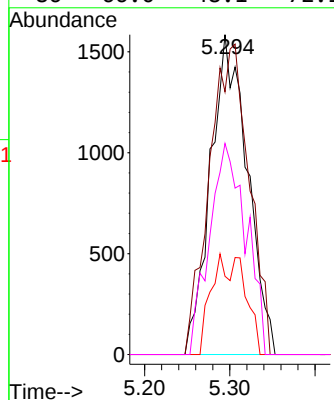
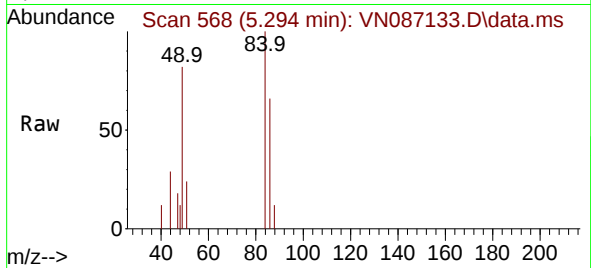




#20
Methylene Chloride
Concen: 1.643 ug/l
RT: 5.294 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

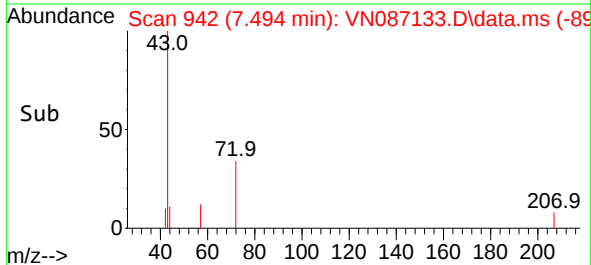
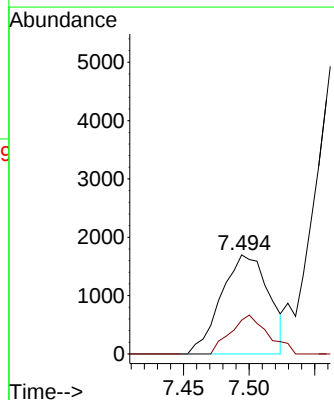
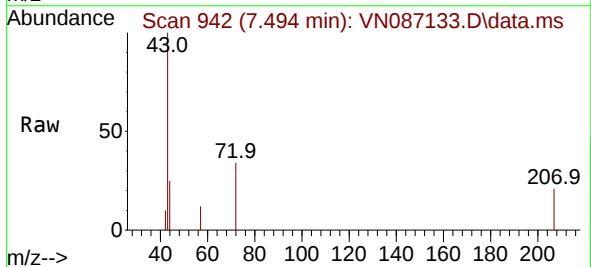
Instrument :
MSVOA_N
ClientSampleId :
EP-4

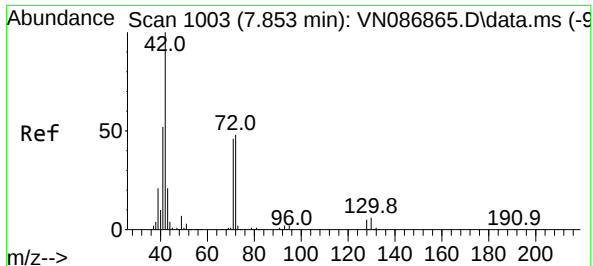
Tgt Ion:	84	Resp:	4758
Ion	Ratio	Lower	Upper
84	100		
49	82.1	90.5	135.7#
51	24.5	28.5	42.7#
86	66.0	48.1	72.1



#25
2-Butanone
Concen: 1.707 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion:	43	Resp:	4292
Ion	Ratio	Lower	Upper
43	100		
72	34.1	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.457 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.012 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

EP-4

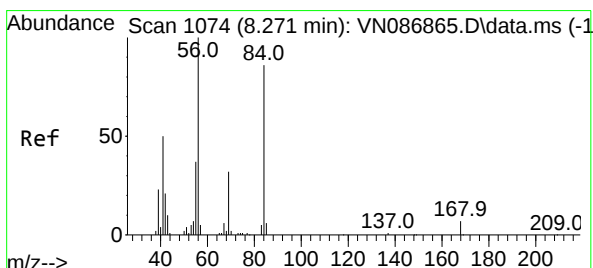
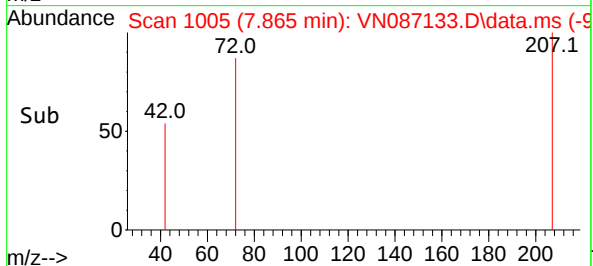
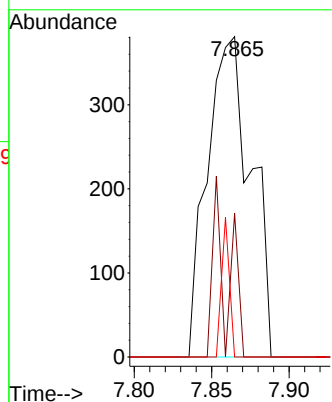
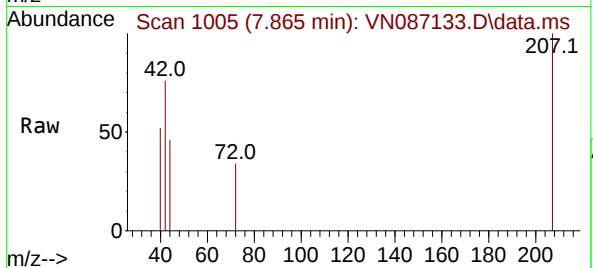
Tgt Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

72 18.2 37.8 56.6#

71 7.9 35.6 53.4#



#31

Cyclohexane

Concen: 0.801 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.047 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

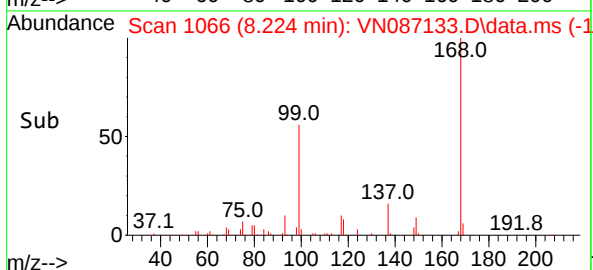
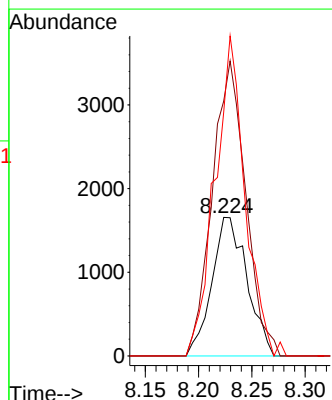
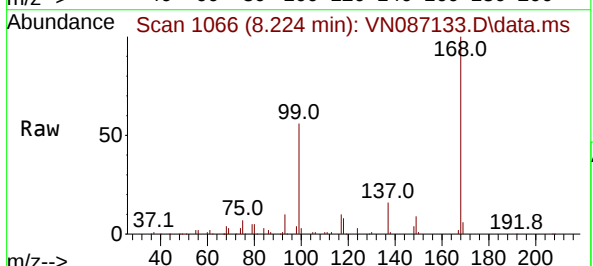
Tgt Ion: 56 Resp: 3791

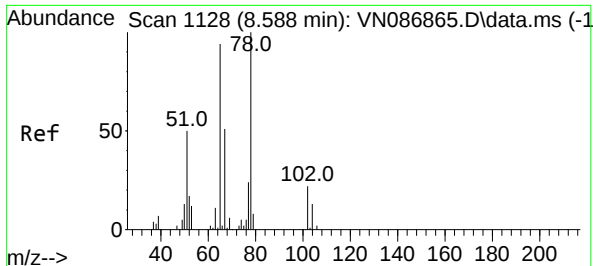
Ion Ratio Lower Upper

56 100

69 184.0 25.4 38.0#

84 176.1 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 52.359 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

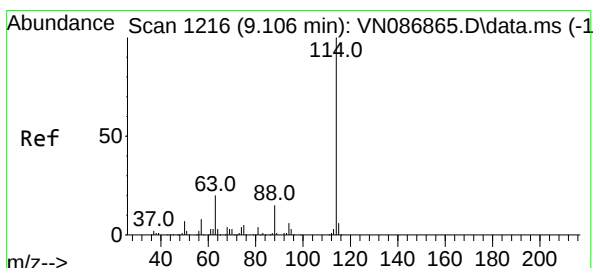
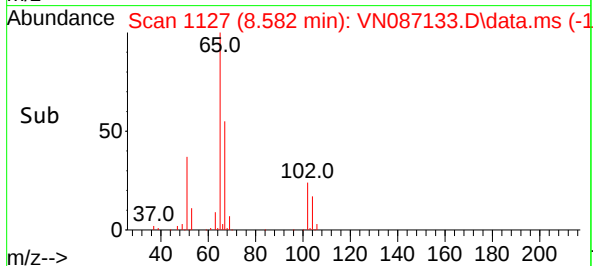
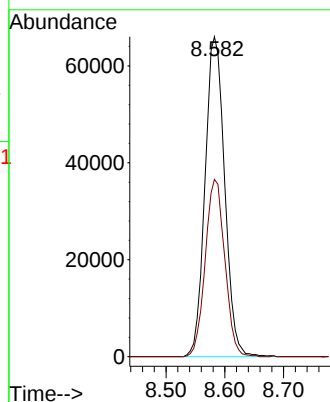
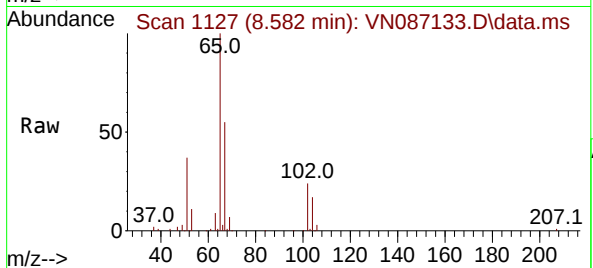
EP-4

Tgt Ion: 65 Resp: 152750

Ion Ratio Lower Upper

65 100

67 55.1 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

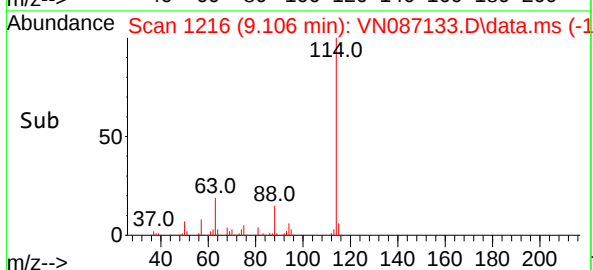
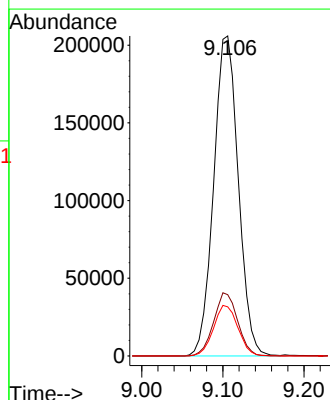
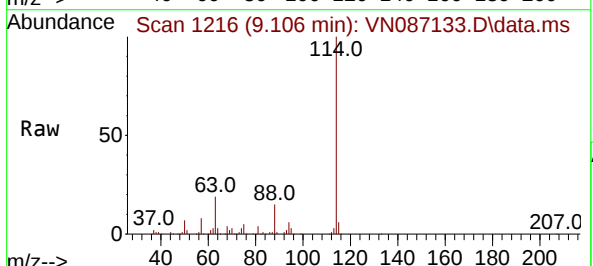
Tgt Ion: 114 Resp: 434510

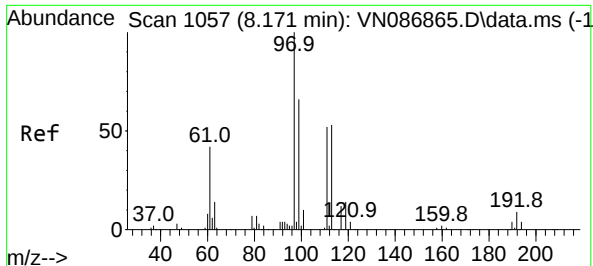
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.005 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

EP-4

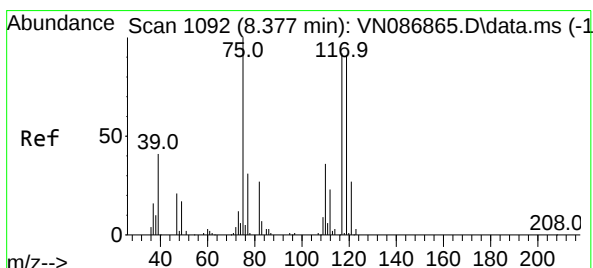
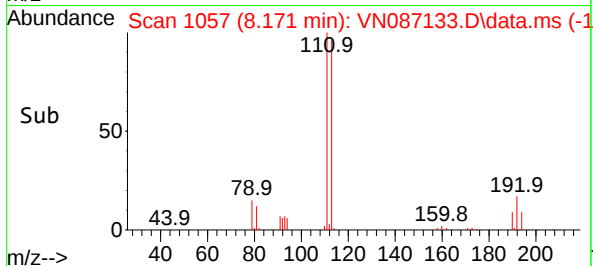
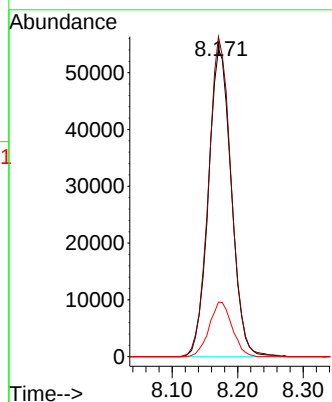
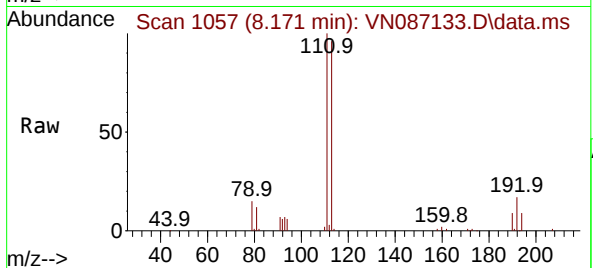
Tgt Ion:113 Resp: 131339

Ion Ratio Lower Upper

113 100

111 103.2 84.2 126.2

192 17.7 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.104 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

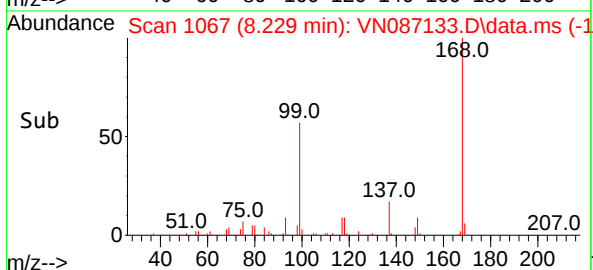
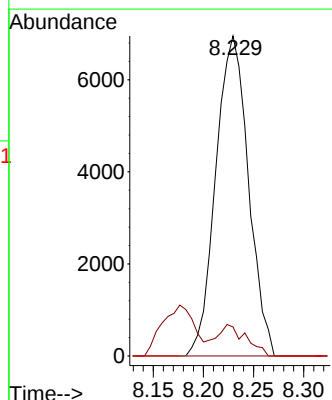
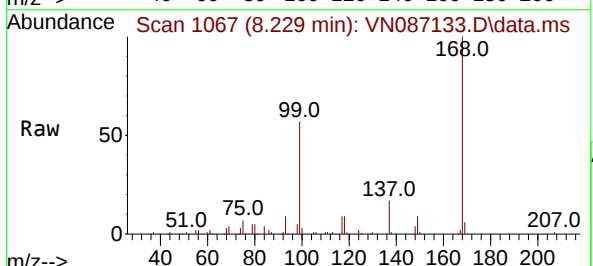
Tgt Ion: 75 Resp: 15746

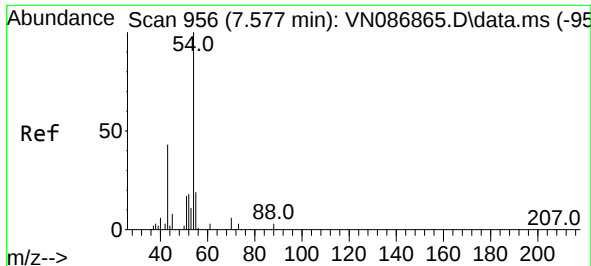
Ion Ratio Lower Upper

75 100

110 8.4 17.6 52.9#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 3.354 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

EP-4

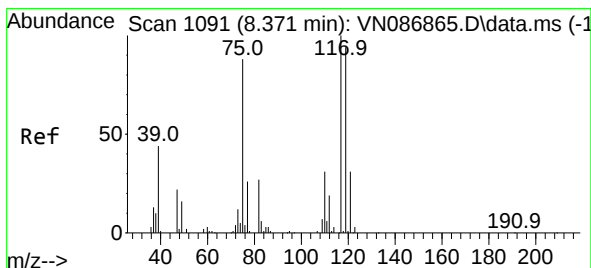
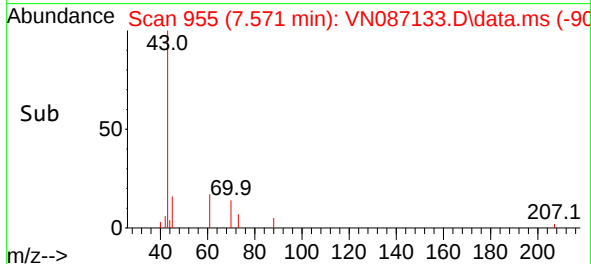
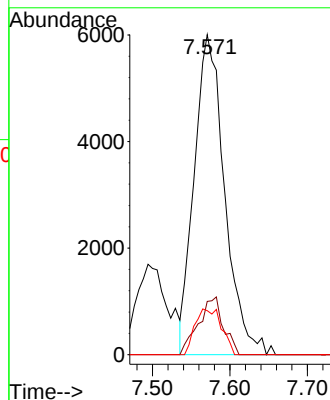
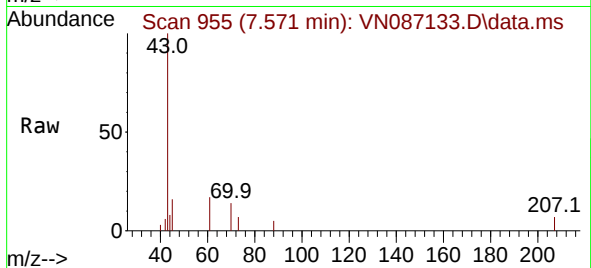
Tgt Ion: 43 Resp: 16383

Ion Ratio Lower Upper

43 100

61 14.7 12.1 18.1

70 12.5 9.8 14.6



#38

Carbon Tetrachloride

Concen: 5.574 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

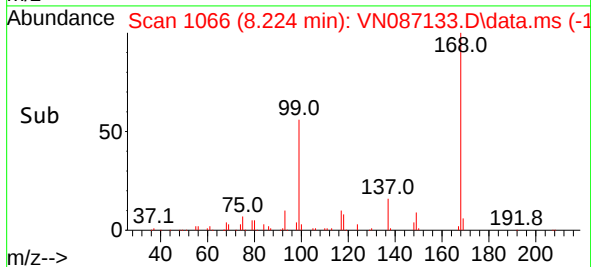
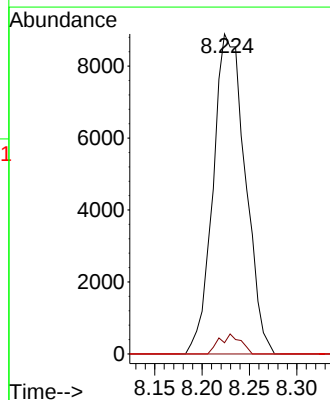
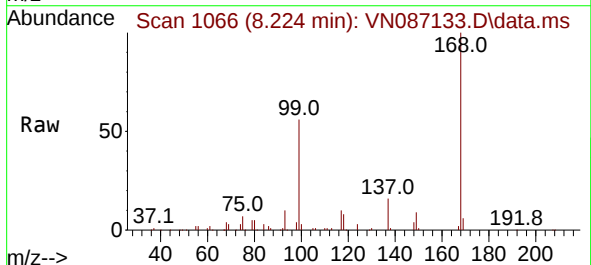
Tgt Ion: 117 Resp: 20999

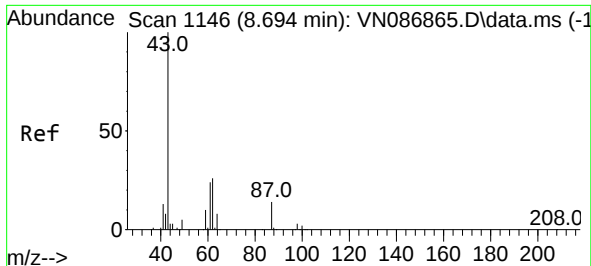
Ion Ratio Lower Upper

117 100

119 3.5 75.0 112.6#

121 0.0 24.9 37.3#

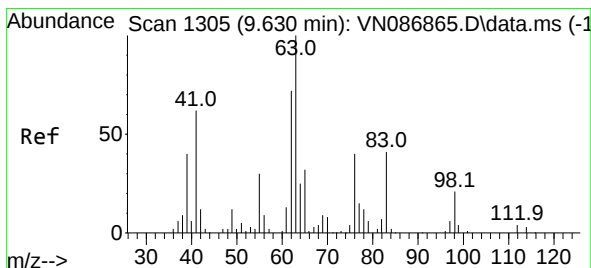
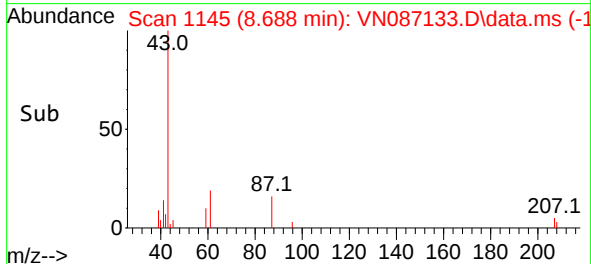
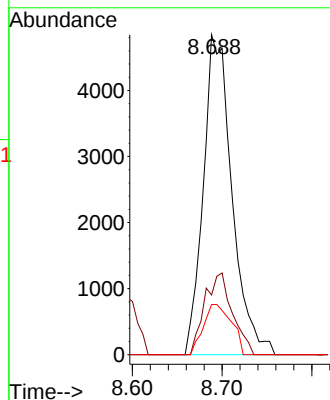
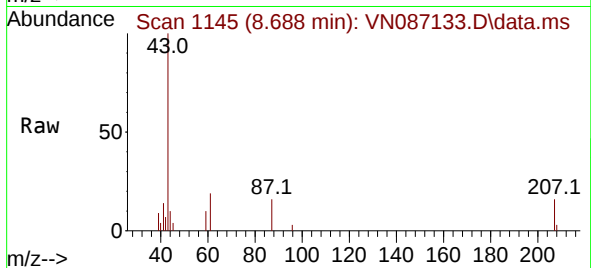




#43
Isopropyl Acetate
Concen: 1.369 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

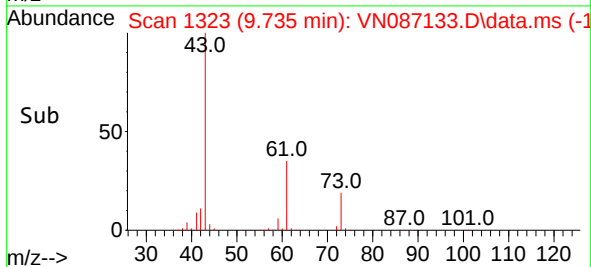
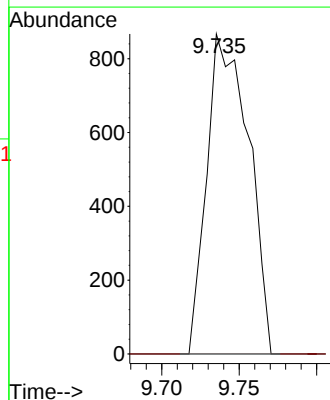
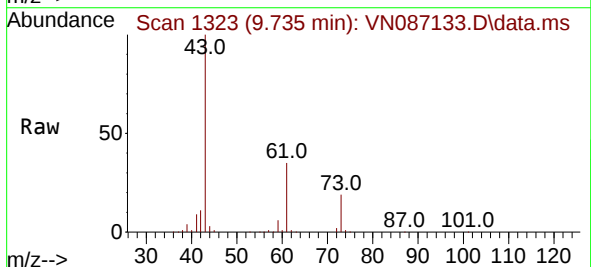
Instrument :
MSVOA_N
ClientSampleId :
EP-4

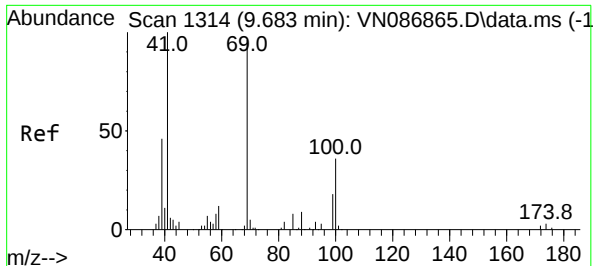
Tgt Ion: 43	Resp: 10735
Ion Ratio	Lower Upper
43	100
61	24.7 22.1 33.1
87	15.4 11.8 17.6



#45
1,2-Dichloropropane
Concen: 0.531 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.106 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion: 63	Resp: 1622
Ion Ratio	Lower Upper
63	100
65	0.0 25.5 38.3#





#48

Methyl methacrylate

Concen: 22.889 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

EP-4

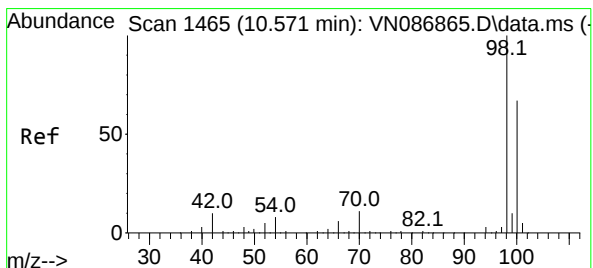
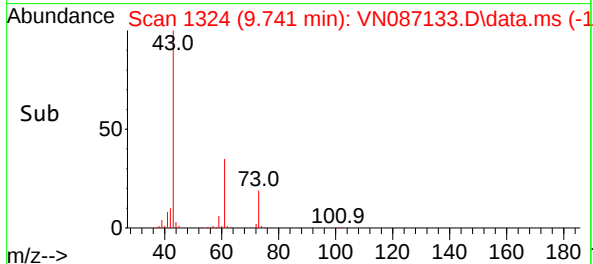
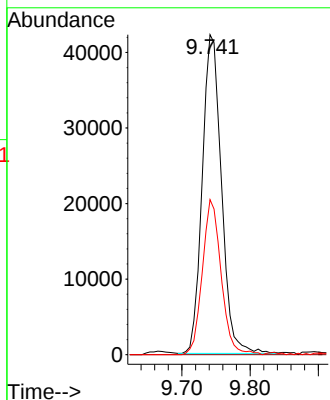
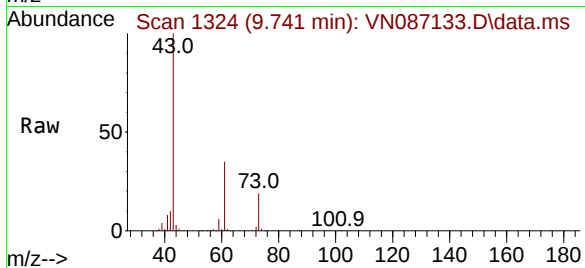
Tgt Ion: 41 Resp: 82591

Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 47.6 40.2 60.4



#50

Toluene-d8

Concen: 52.655 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN087133.D

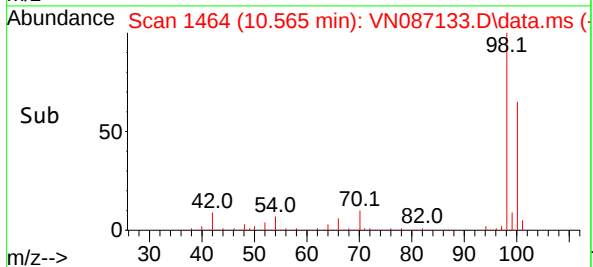
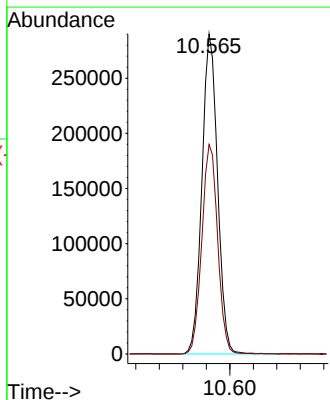
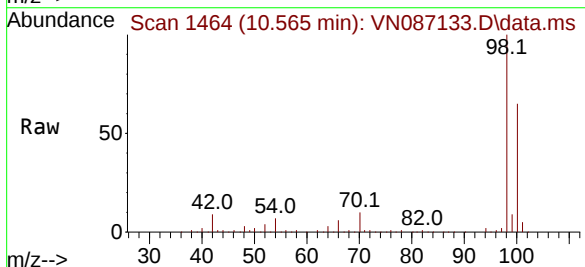
Acq: 20 Jun 2025 13:04

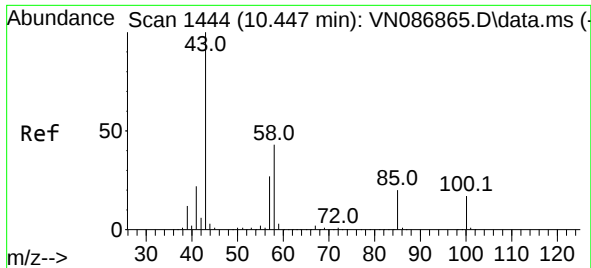
Tgt Ion: 98 Resp: 536753

Ion Ratio Lower Upper

98 100

100 66.3 53.4 80.0

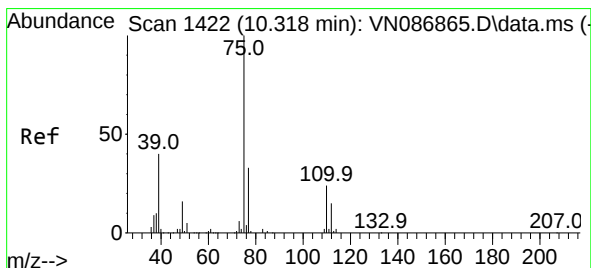
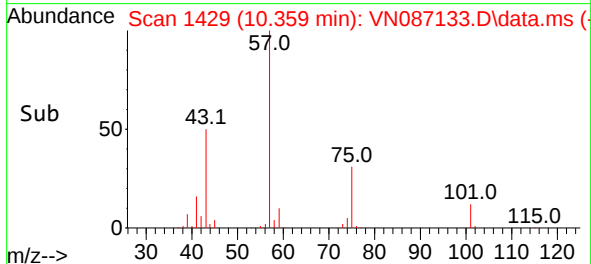
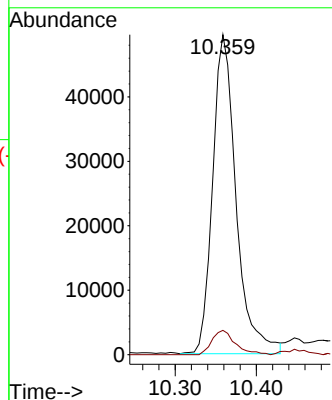
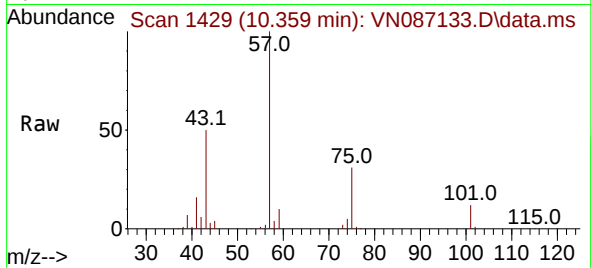




#51
4-Methyl-2-Pentanone
Concen: 21.065 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

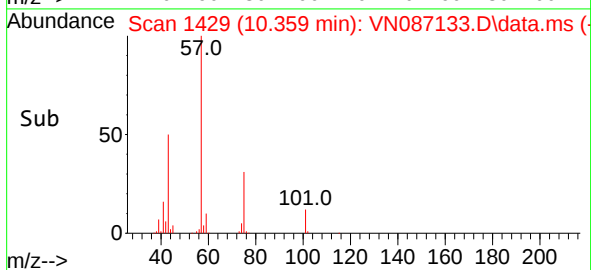
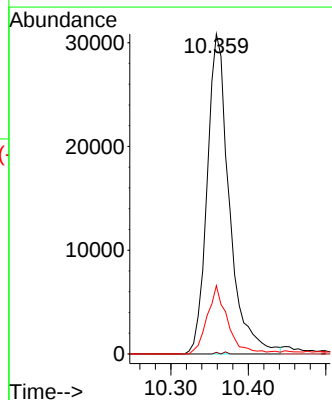
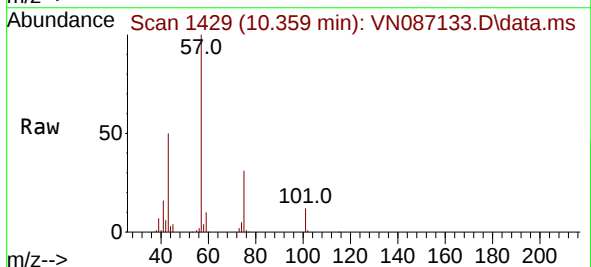
Instrument :
MSVOA_N
ClientSampleId :
EP-4

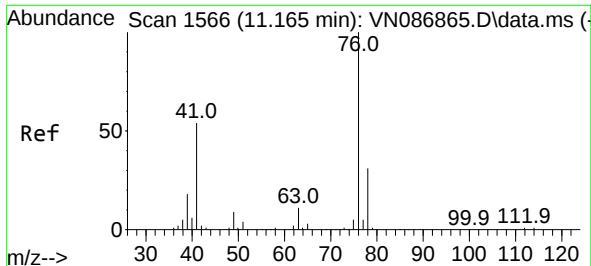
Tgt Ion: 43 Resp: 99420
Ion Ratio Lower Upper
43 100
58 7.6 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 12.277 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion: 75 Resp: 61276
Ion Ratio Lower Upper
75 100
77 0.5 26.2 39.4#
39 21.3 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.740 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

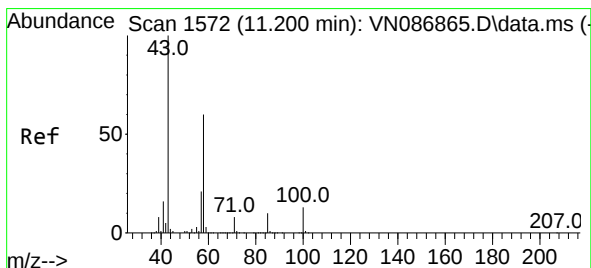
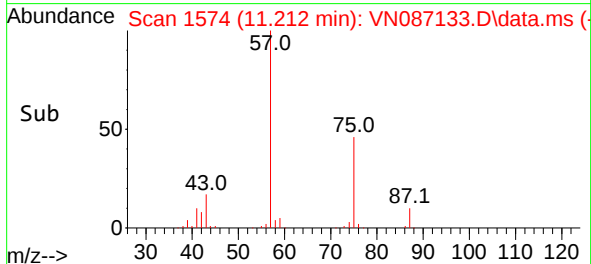
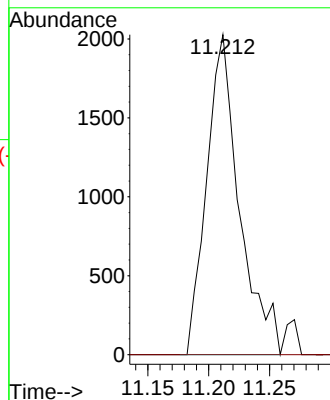
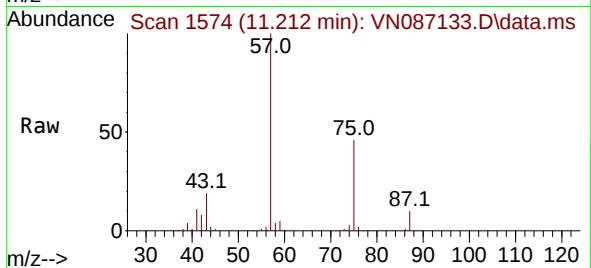
EP-4

Tgt Ion: 76 Resp: 3787

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 13.083 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087133.D

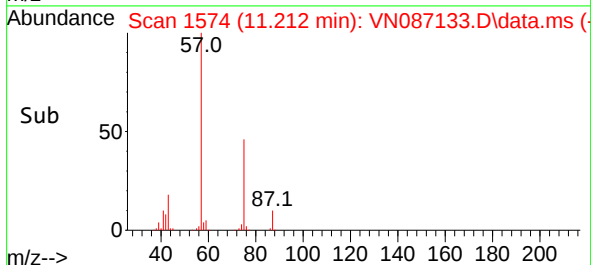
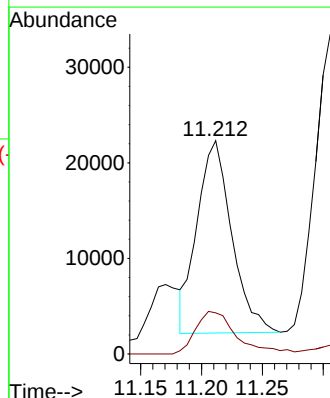
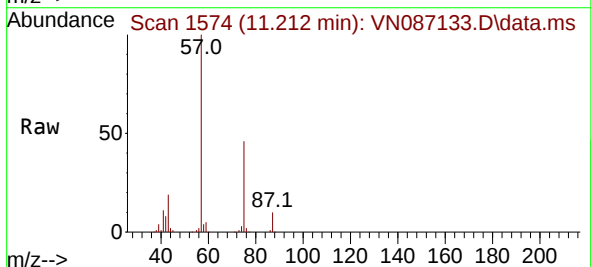
Acq: 20 Jun 2025 13:04

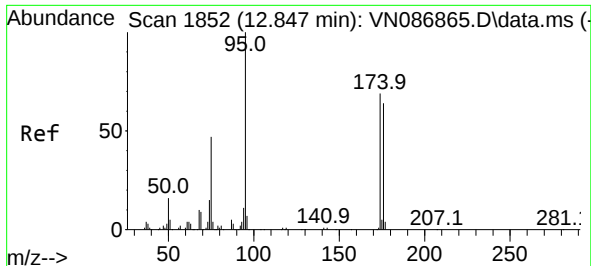
Tgt Ion: 43 Resp: 39774

Ion Ratio Lower Upper

43 100

58 26.1 30.4 91.3#

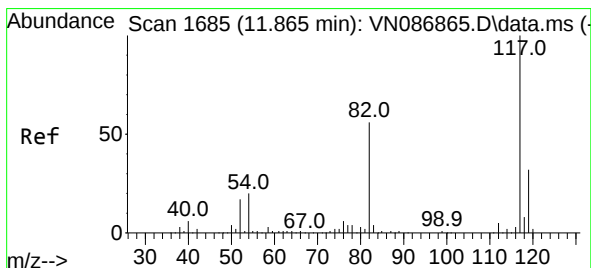
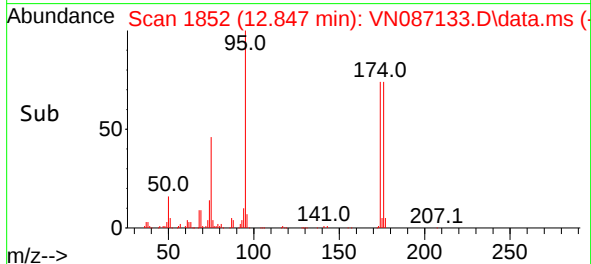
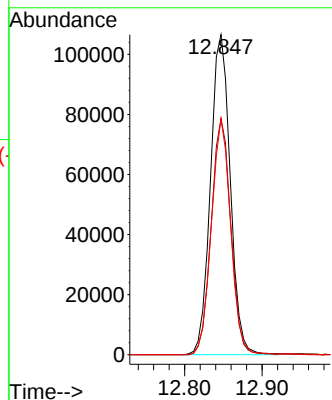
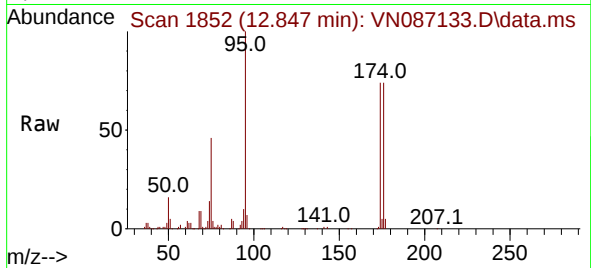




#62
4-Bromofluorobenzene
Concen: 49.840 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

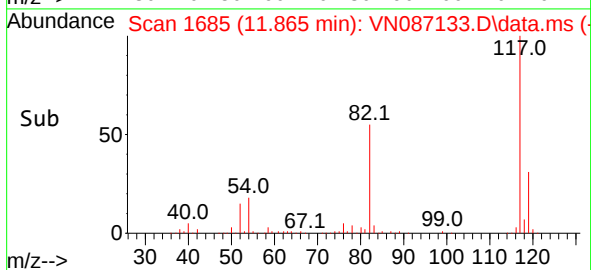
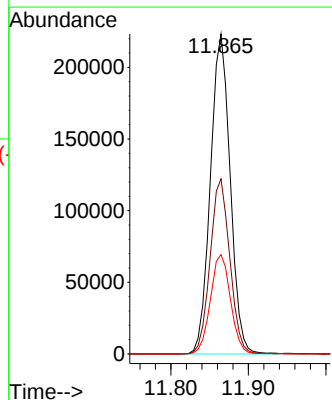
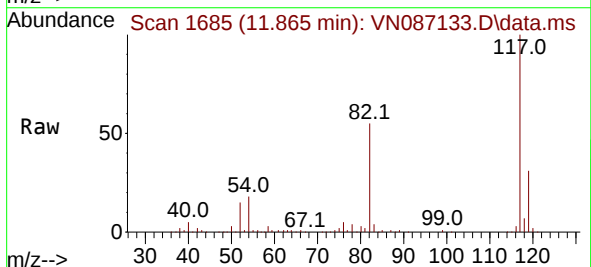
Instrument :
MSVOA_N
ClientSampleId :
EP-4

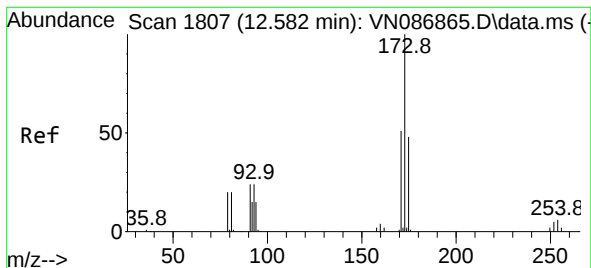
Tgt Ion: 95 Resp: 188760
Ion Ratio Lower Upper
95 100
174 73.4 0.0 141.8
176 71.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion: 117 Resp: 395910
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 31.1 25.5 38.3





#71

Bromoform

Concen: 0.263 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.264 min

Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Instrument :

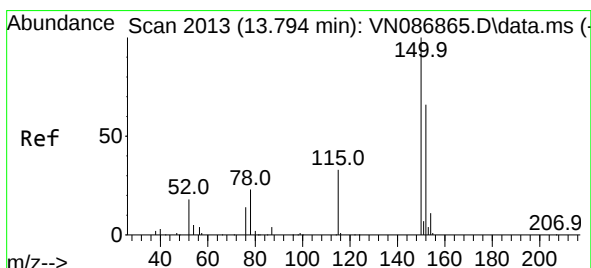
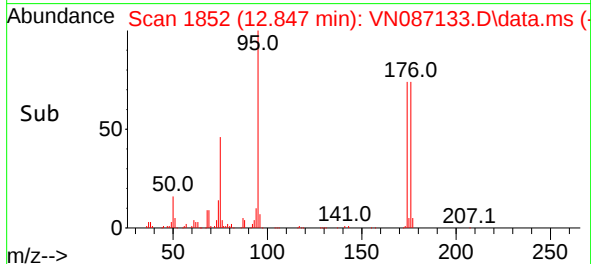
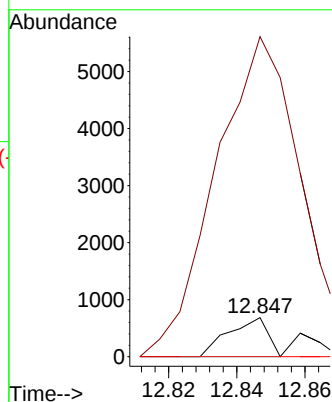
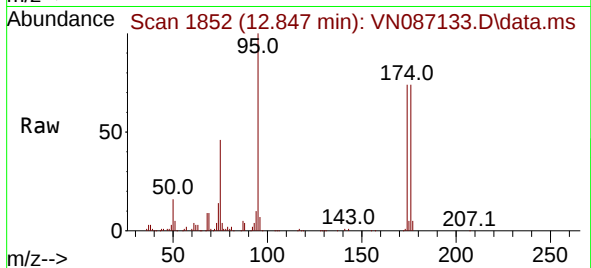
MSVOA_N

ClientSampleId :

EP-4

Tgt Ion:173 Resp: 548

Ion	Ratio	Lower	Upper
173	100		
175	1621.7	24.1	72.4#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

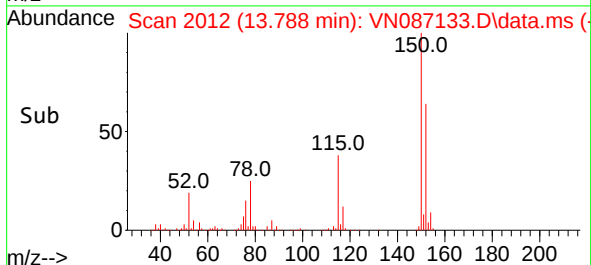
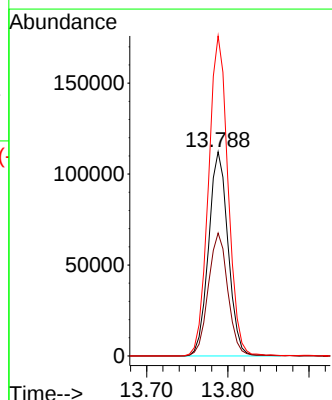
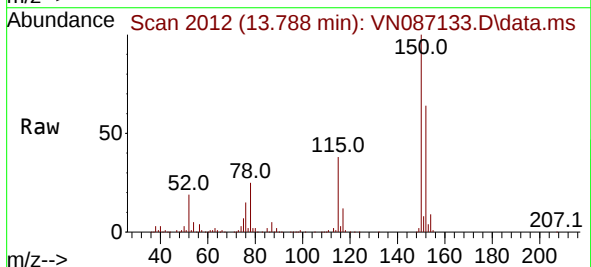
Delta R.T. -0.006 min

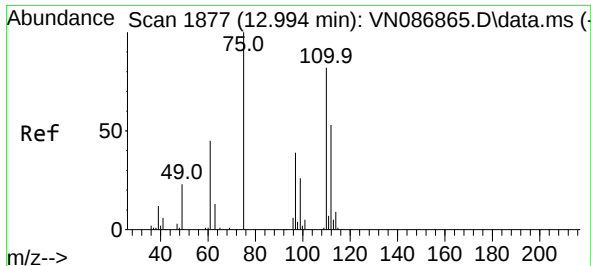
Lab File: VN087133.D

Acq: 20 Jun 2025 13:04

Tgt Ion:152 Resp: 186922

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.1	90.5
150	157.7	0.0	345.0

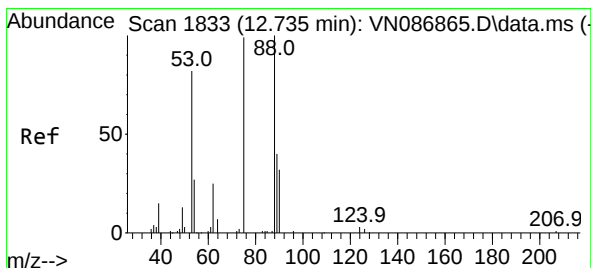
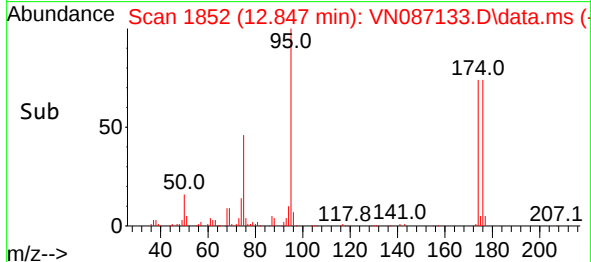
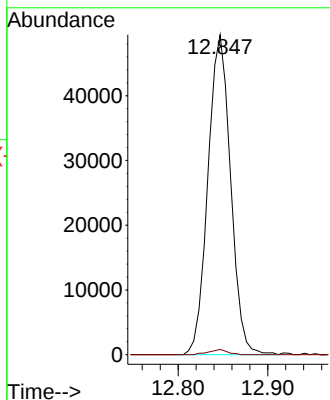
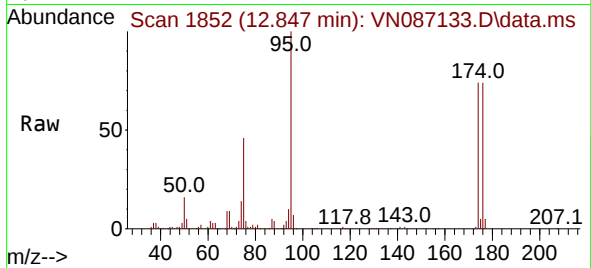




#76
1,2,3-Trichloropropane
Concen: 19.519 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Instrument :
MSVOA_N
ClientSampleId :
EP-4

Tgt Ion: 75 Resp: 86729
Ion Ratio Lower Upper
75 100
77 1.3 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.933 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087133.D
Acq: 20 Jun 2025 13:04

Tgt Ion: 75 Resp: 86729
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

