

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087194.D
 Acq On : 26 Jun 2025 14:49
 Operator : JC\MD
 Sample : Q2405-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-M/N

Quant Time: Jun 27 01:26:43 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)

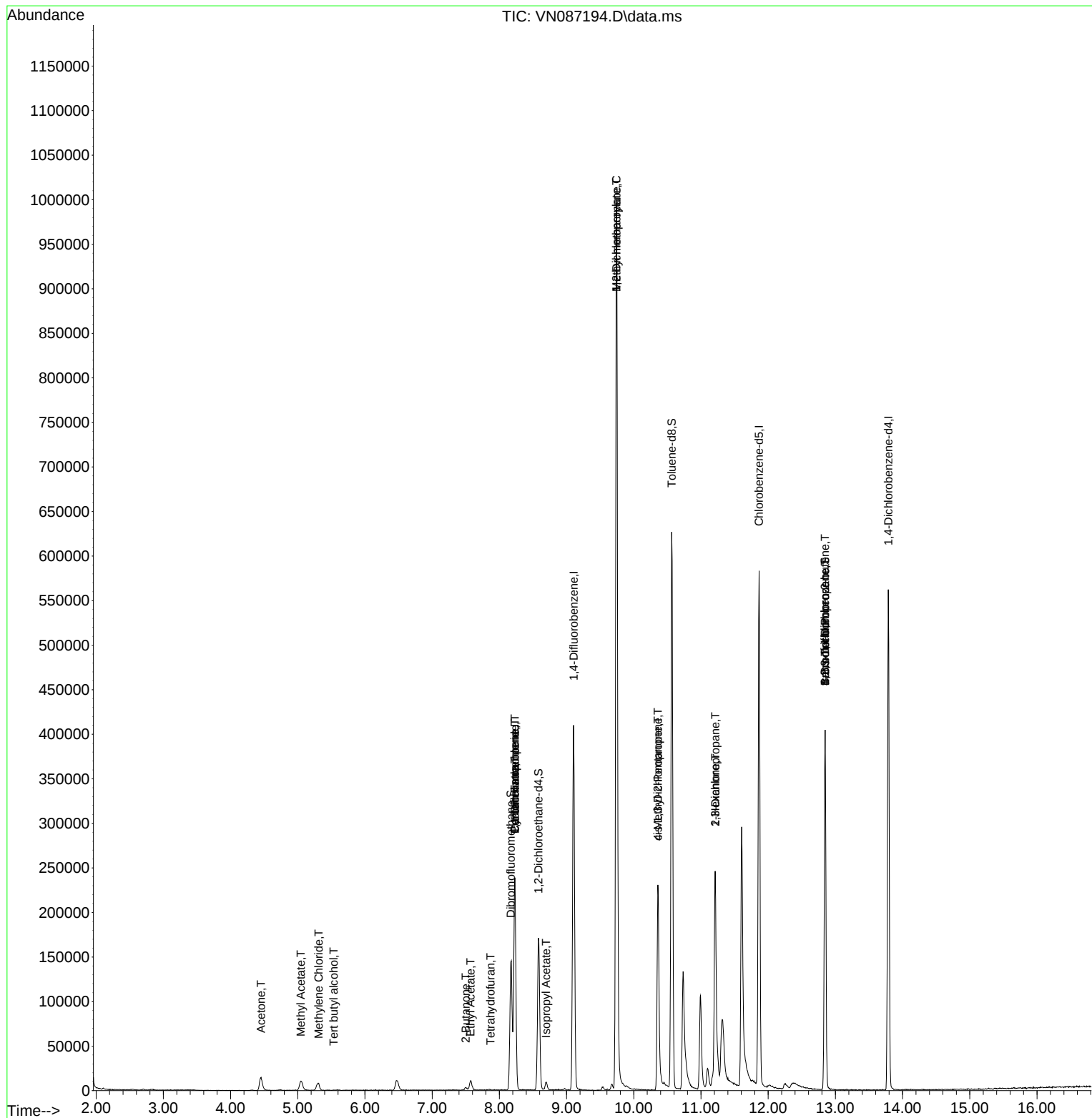
Internal Standards						
1) Pentafluorobenzene	8.230	168	178724	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	364399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	342365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158203	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	142307	59.470	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.940%
35) Dibromofluoromethane	8.171	113	110655	51.241	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.480%
50) Toluene-d8	10.565	98	445997	52.170	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.340%
62) 4-Bromofluorobenzene	12.847	95	154950	48.785	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.560%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	368	0.567	ug/l #	73
16) Acetone	4.453	43	29680	23.389	ug/l #	87
18) Methyl Acetate	5.047	43	24836	6.716	ug/l	91
20) Methylene Chloride	5.312	84	7208	3.034	ug/l	95
25) 2-Butanone	7.500	43	5219	2.530	ug/l	92
29) Tetrahydrofuran	7.871	42	637	0.474	ug/l #	37
31) Cyclohexane	8.230	56	3697	0.953	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	14994	4.660	ug/l #	48
37) Ethyl Acetate	7.571	43	17374	4.241	ug/l	97
38) Carbon Tetrachloride	8.230	117	17624	5.579	ug/l #	16
43) Isopropyl Acetate	8.694	43	10385	1.580	ug/l #	90
45) 1,2-Dichloropropane	9.741	63	1339	0.523	ug/l #	43
48) Methyl methacrylate	9.741	41	92020	30.409	ug/l #	36
51) 4-Methyl-2-Pentanone	10.359	43	96870	24.474	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	52826	12.620	ug/l #	61
57) 1,3-Dichloropropane	11.212	76	3586	0.835	ug/l #	43
59) 2-Hexanone	11.212	43	40362	15.831	ug/l #	50
71) Bromoform	12.847	173	887	0.493	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	75747	20.143	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75747	46.367	ug/l #	16

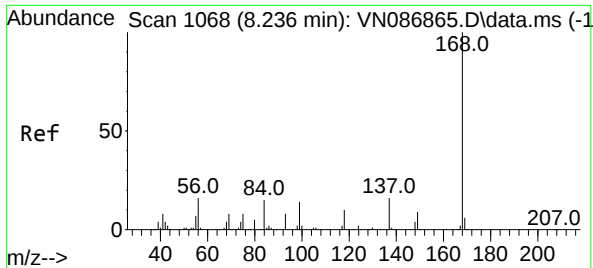
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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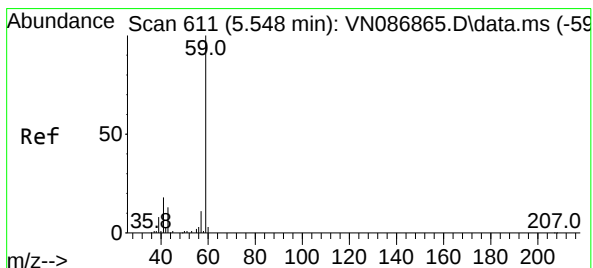
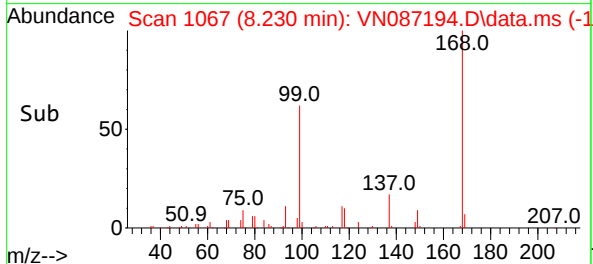
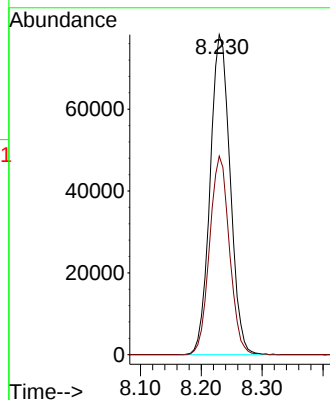
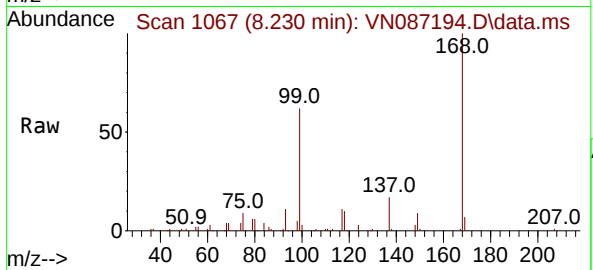




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

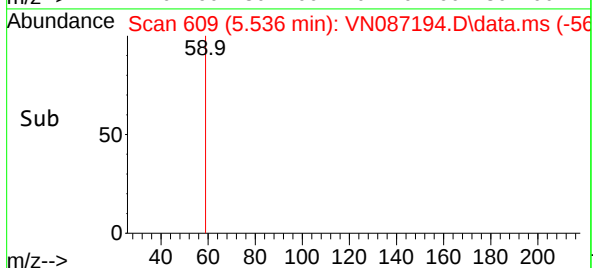
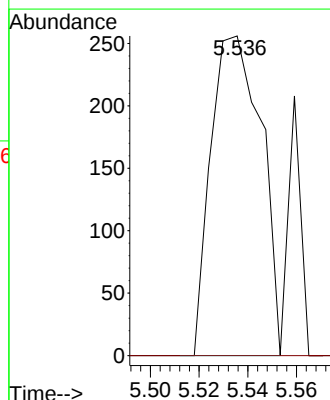
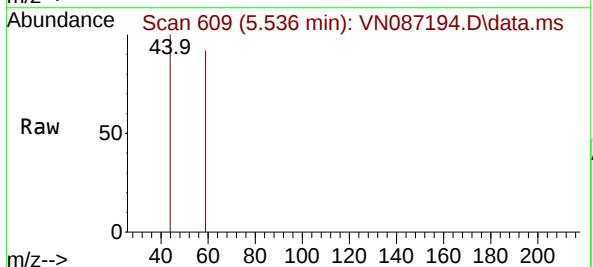
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

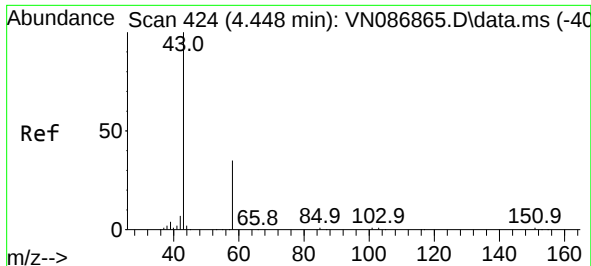
Tgt Ion:168 Resp: 178724
Ion Ratio Lower Upper
168 100
99 62.0 49.1 73.7



#11
Tert butyl alcohol
Concen: 0.567 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 59 Resp: 368
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

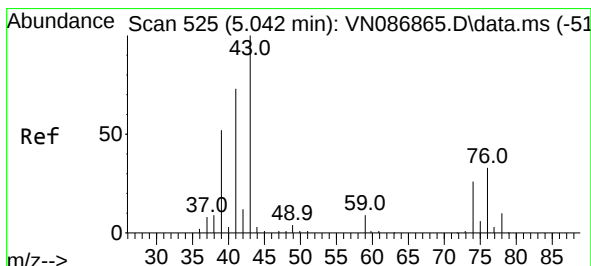
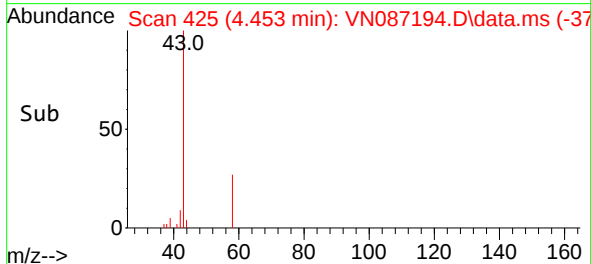
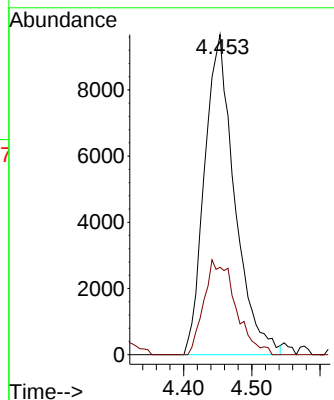
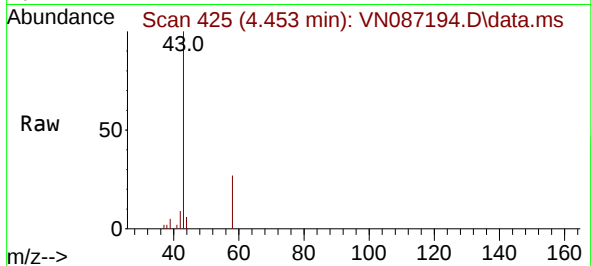




#16
Acetone
Concen: 23.389 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

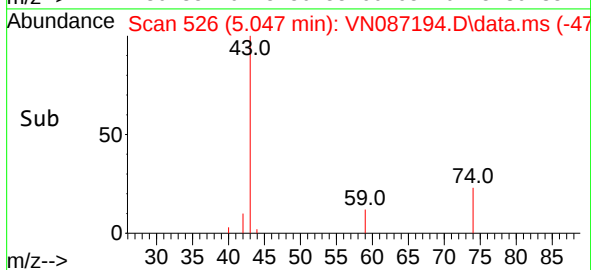
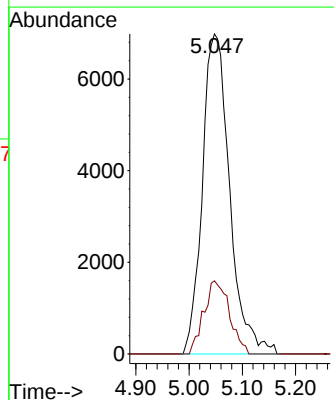
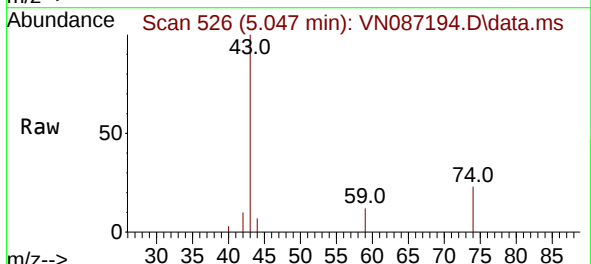
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

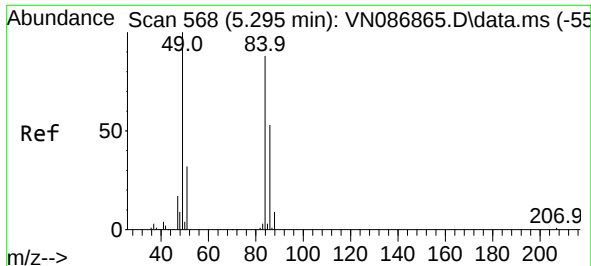
Tgt Ion: 43 Resp: 29680
Ion Ratio Lower Upper
43 100
58 27.3 28.0 42.0#



#18
Methyl Acetate
Concen: 6.716 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

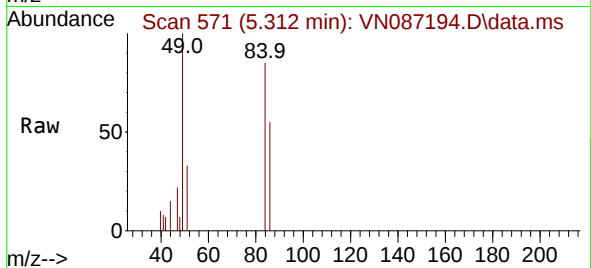
Tgt Ion: 43 Resp: 24836
Ion Ratio Lower Upper
43 100
74 21.4 20.7 31.1



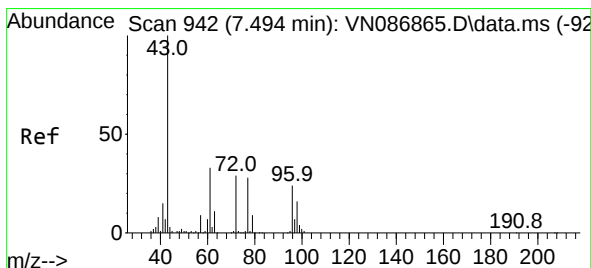
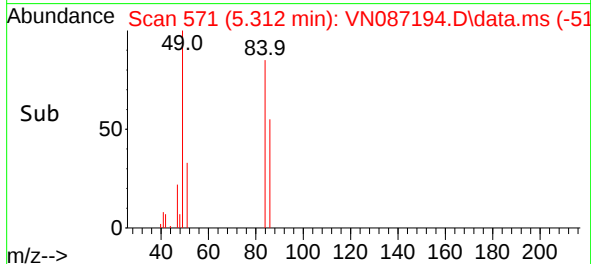
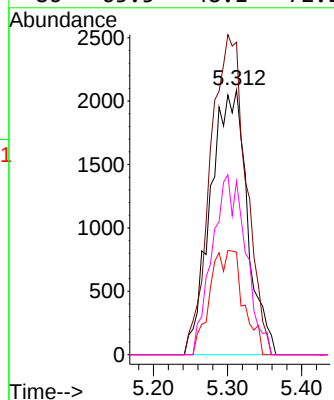


#20
Methylene Chloride
Concen: 3.034 ug/l
RT: 5.312 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

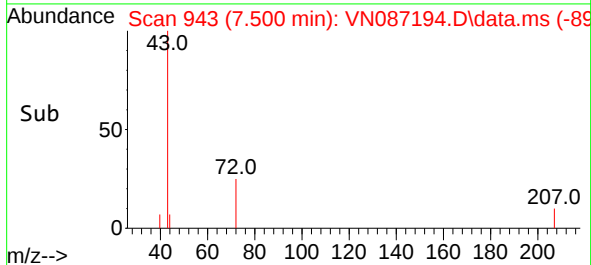
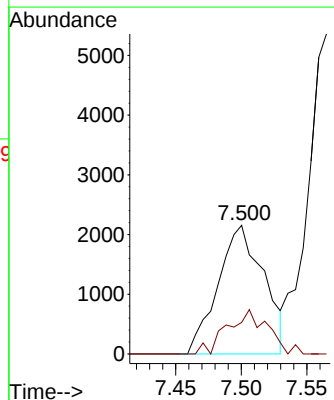
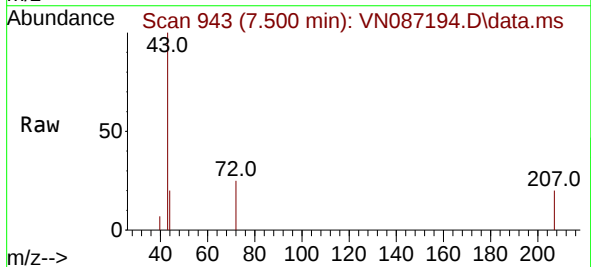


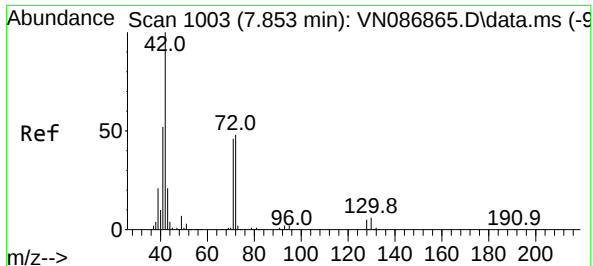
Tgt Ion:	84	Resp:	7208
Ion	Ratio	Lower	Upper
84	100		
49	118.0	90.5	135.7
51	38.6	28.5	42.7
86	65.5	48.1	72.1



#25
2-Butanone
Concen: 2.530 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion:	43	Resp:	5219
Ion	Ratio	Lower	Upper
43	100		
72	24.5	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.474 ug/l

RT: 7.871 min Scan# 1067

Delta R.T. 0.018 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

MH-M/N

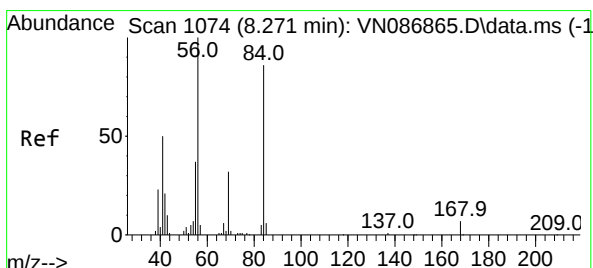
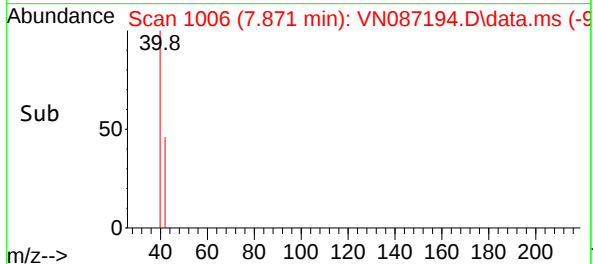
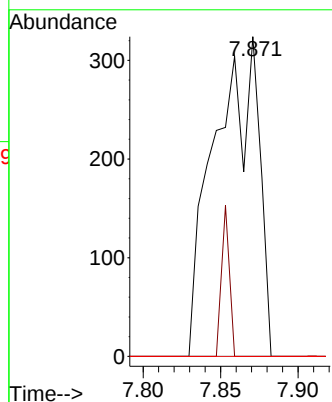
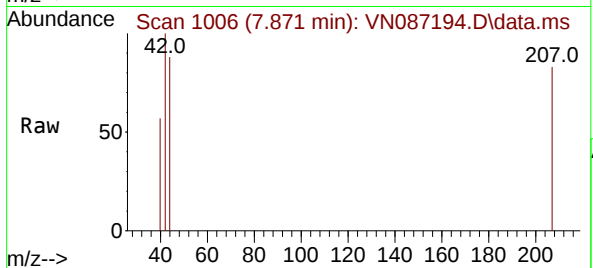
Tgt Ion: 42 Resp: 637

Ion Ratio Lower Upper

42 100

72 8.5 37.8 56.6#

71 0.0 35.6 53.4#



#31

Cyclohexane

Concen: 0.953 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

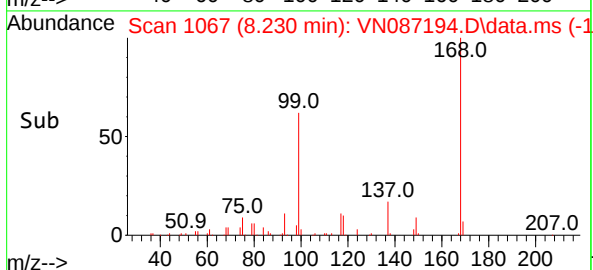
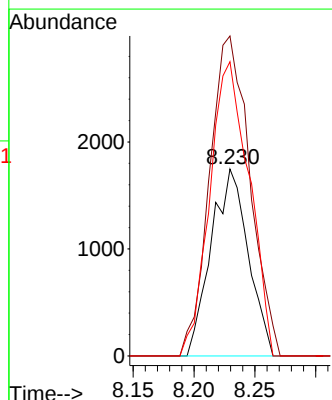
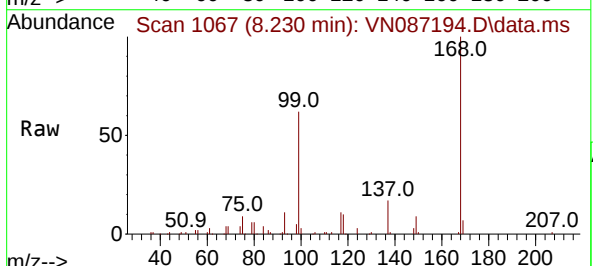
Tgt Ion: 56 Resp: 3697

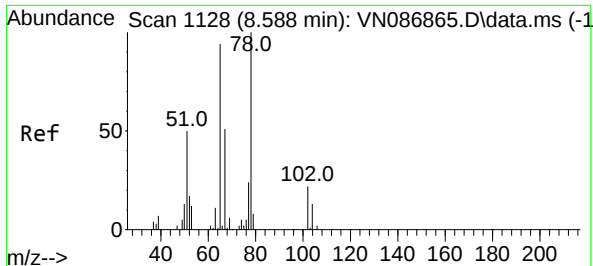
Ion Ratio Lower Upper

56 100

69 171.2 25.4 38.0#

84 157.4 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 59.470 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087194.D

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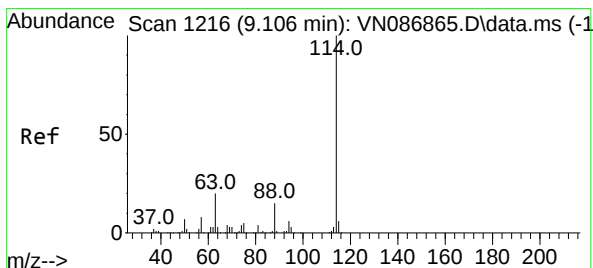
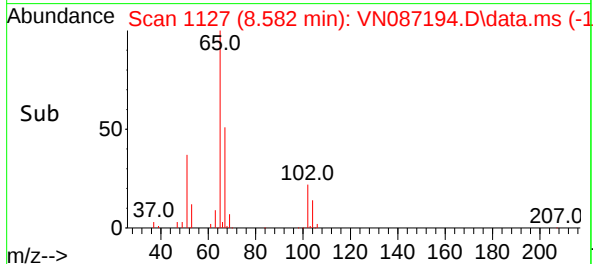
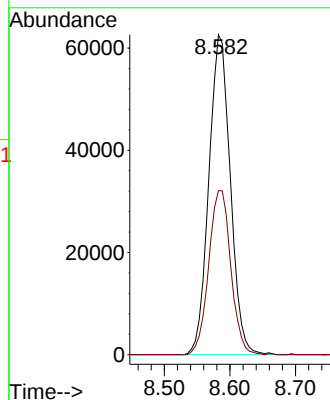
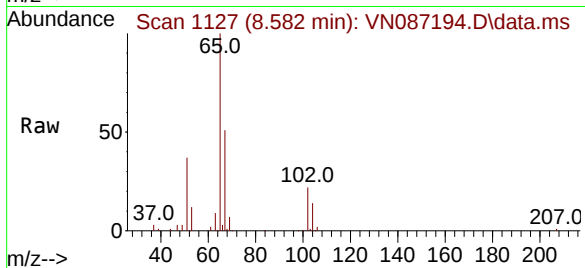
MH-M/N

Tgt Ion: 65 Resp: 142307

Ion Ratio Lower Upper

65 100

67 52.7 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: VN087194.D

Acq: 26 Jun 2025 14:49

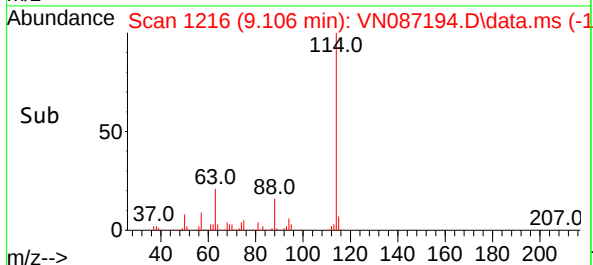
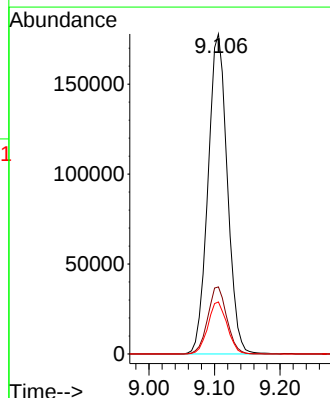
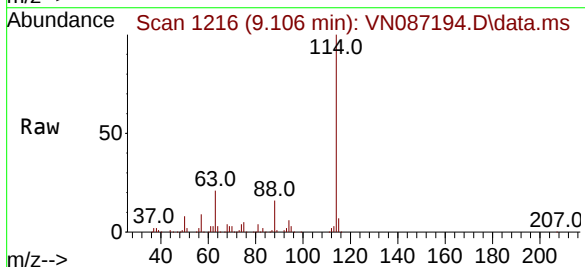
Tgt Ion: 114 Resp: 364399

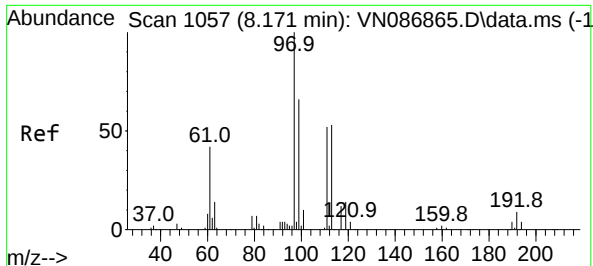
Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.6

88 16.2 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.241 ug/l

RT: 8.171 min Scan# 110655

Delta R.T. -0.000 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

Instrument :

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ClientSampleId :

MH-M/N

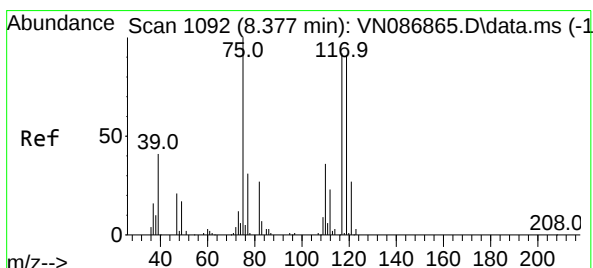
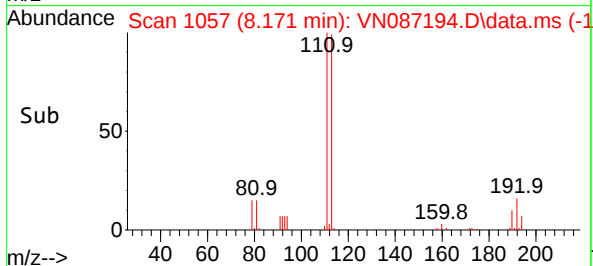
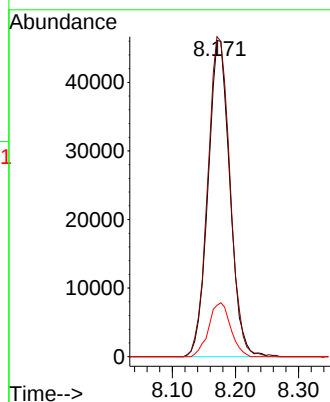
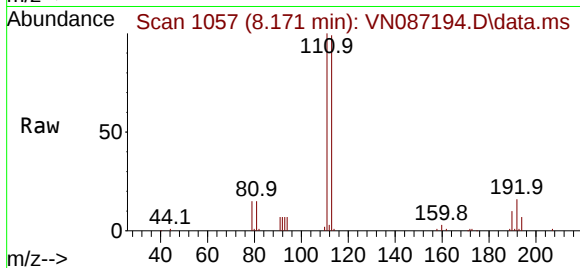
Tgt Ion:113 Resp: 110655

Ion Ratio Lower Upper

113 100

111 103.5 84.2 126.2

192 17.2 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.660 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

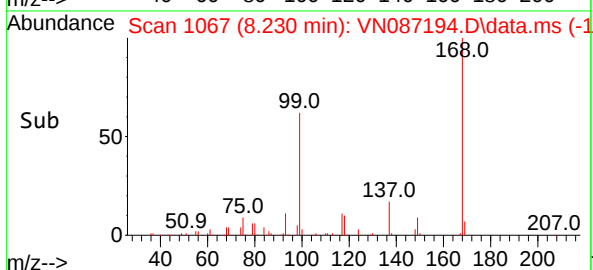
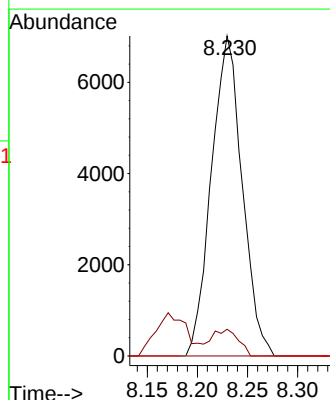
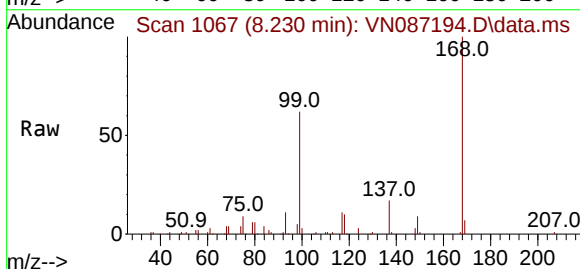
Tgt Ion: 75 Resp: 14994

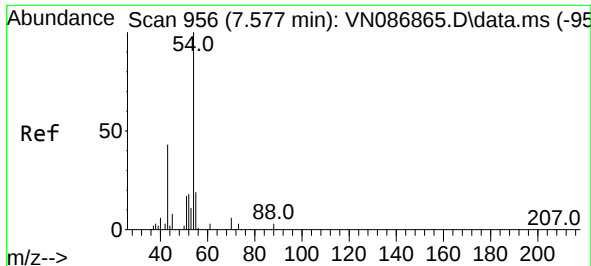
Ion Ratio Lower Upper

75 100

110 7.1 17.6 52.9#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 4.241 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087194.D

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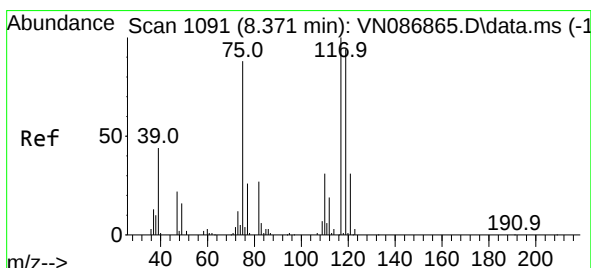
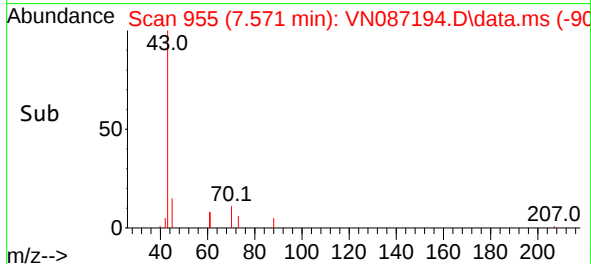
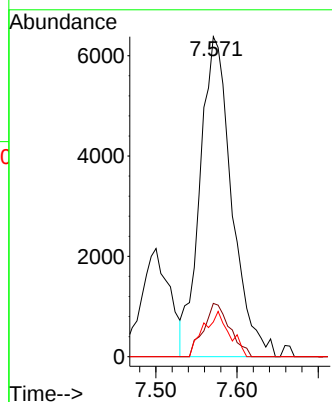
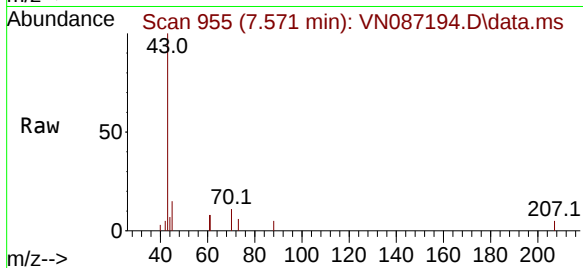
Tgt Ion: 43 Resp: 17374

Ion Ratio Lower Upper

43 100

61 13.7 12.1 18.1

70 11.5 9.8 14.6



#38

Carbon Tetrachloride

Concen: 5.579 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

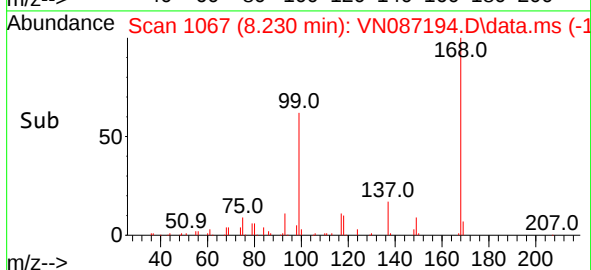
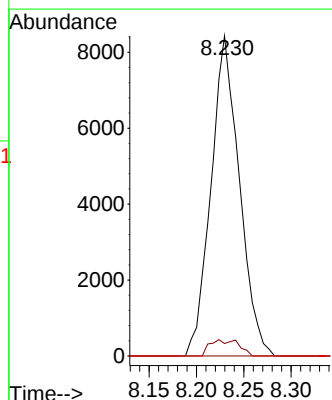
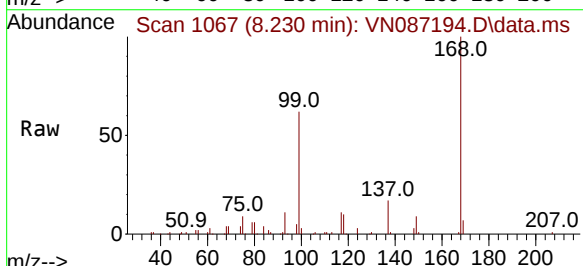
Tgt Ion: 117 Resp: 17624

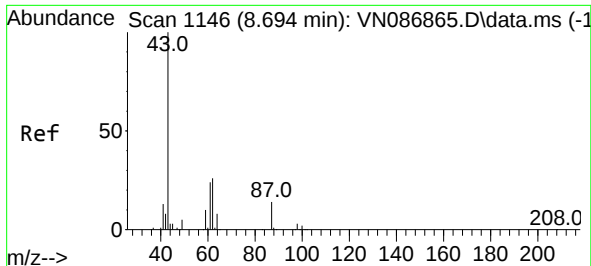
Ion Ratio Lower Upper

117 100

119 3.9 75.0 112.6#

121 0.0 24.9 37.3#

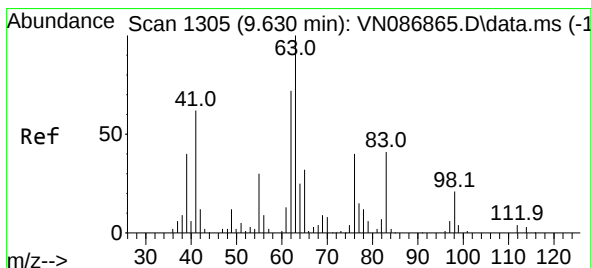
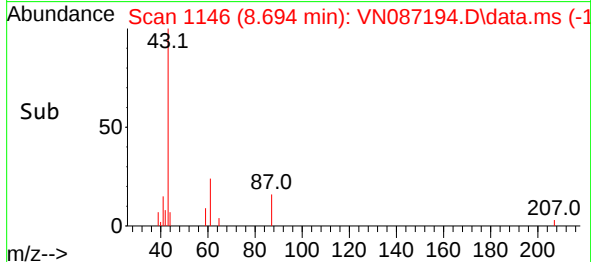
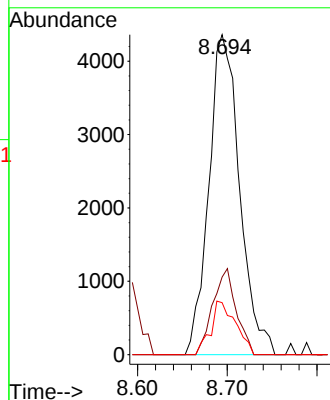
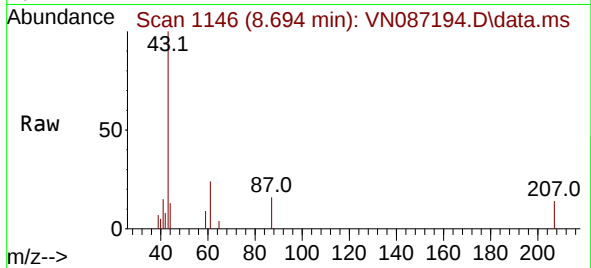




#43
Isopropyl Acetate
Concen: 1.580 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

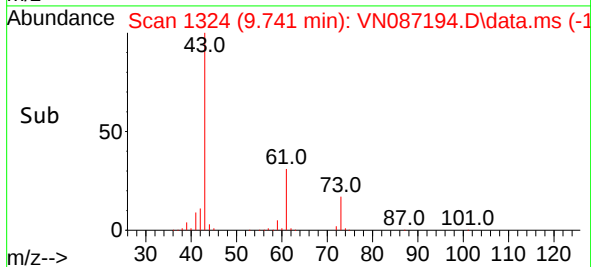
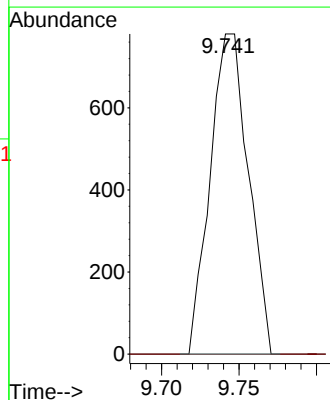
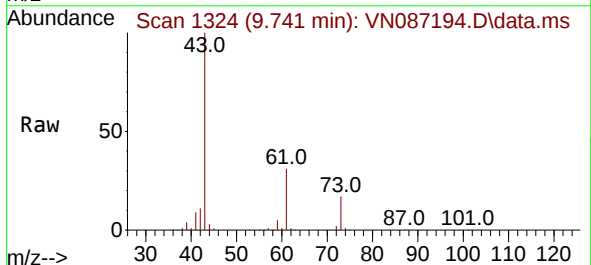
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

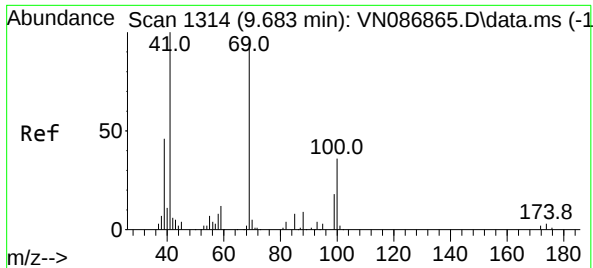
Tgt Ion: 43 Resp: 10385
Ion Ratio Lower Upper
43 100
61 20.5 22.1 33.1#
87 13.5 11.8 17.6



#45
1,2-Dichloropropane
Concen: 0.523 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.112 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 63 Resp: 1339
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#

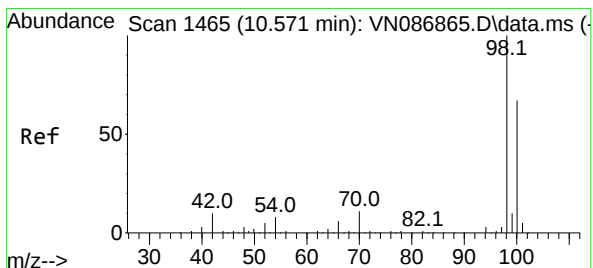
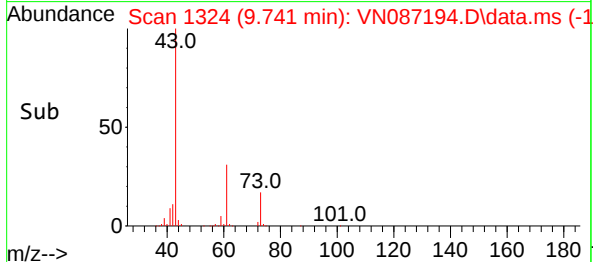
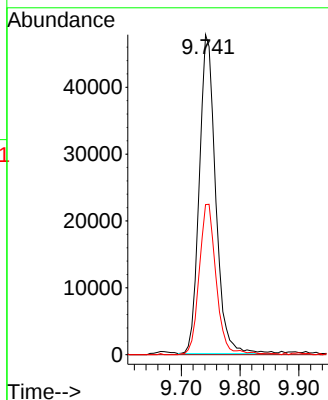
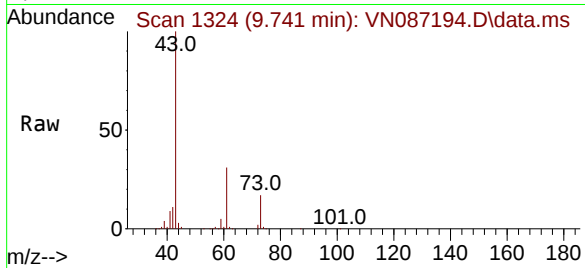




#48
Methyl methacrylate
Concen: 30.409 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

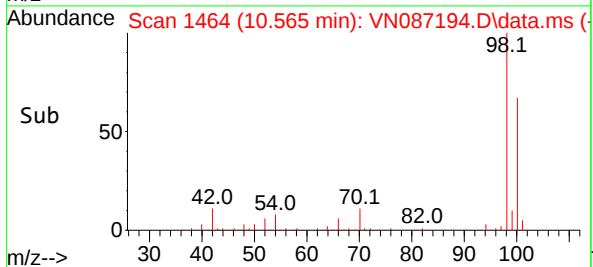
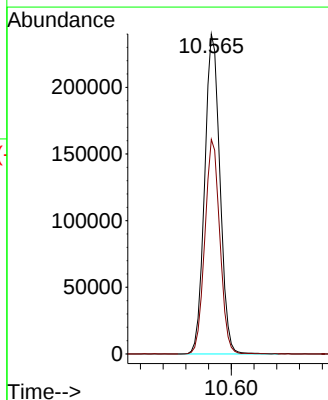
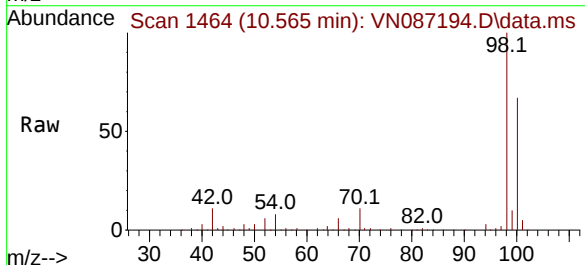
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

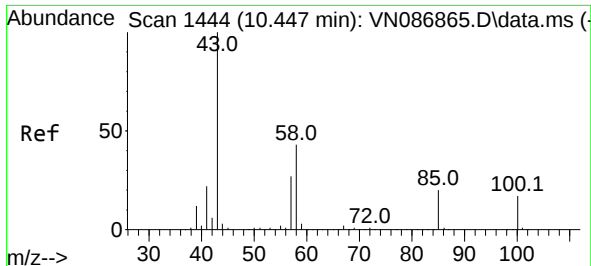
Tgt Ion: 41 Resp: 92020
Ion Ratio Lower Upper
41 100
69 0.0 74.6 112.0#
39 49.1 40.2 60.4



#50
Toluene-d8
Concen: 52.170 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 98 Resp: 445997
Ion Ratio Lower Upper
98 100
100 65.8 53.4 80.0

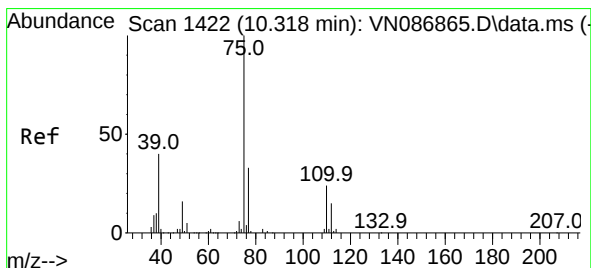
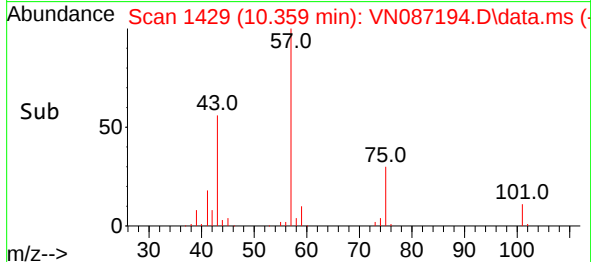
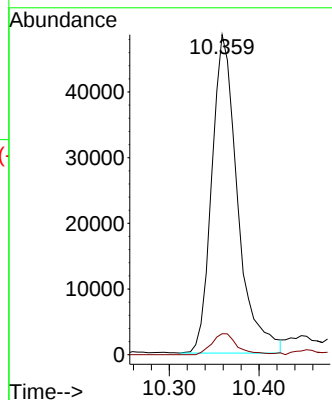
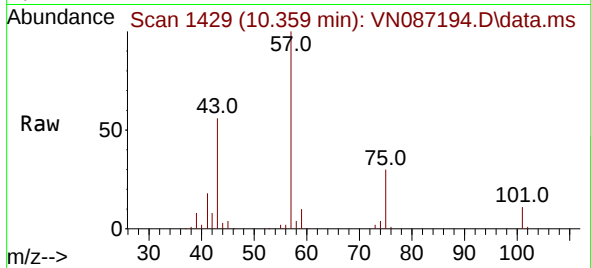




#51
4-Methyl-2-Pentanone
Concen: 24.474 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

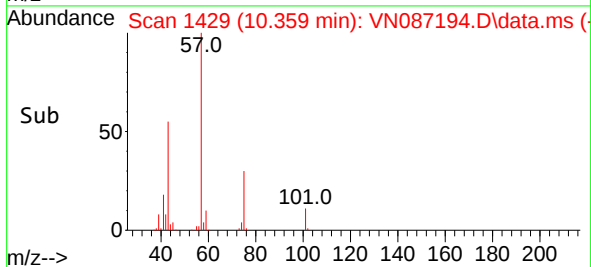
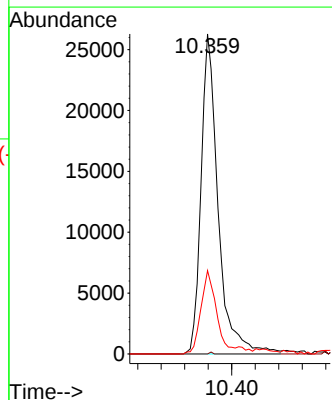
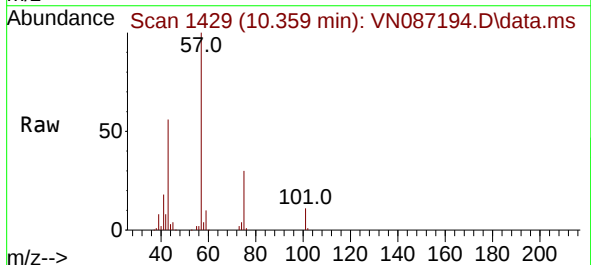
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

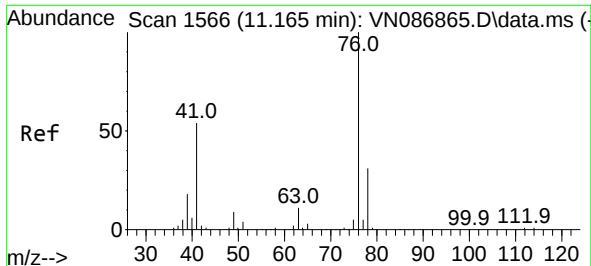
Tgt Ion: 43 Resp: 96870
Ion Ratio Lower Upper
43 100
58 6.5 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 12.620 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 75 Resp: 52826
Ion Ratio Lower Upper
75 100
77 0.0 26.2 39.4#
39 26.0 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.835 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

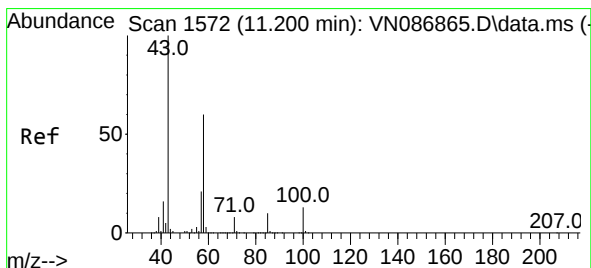
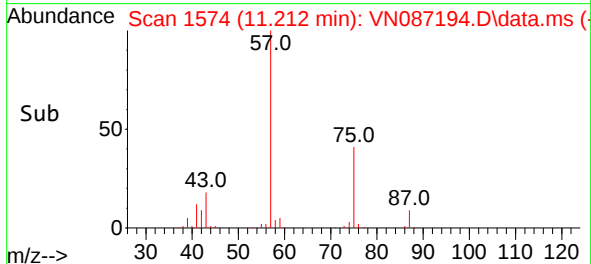
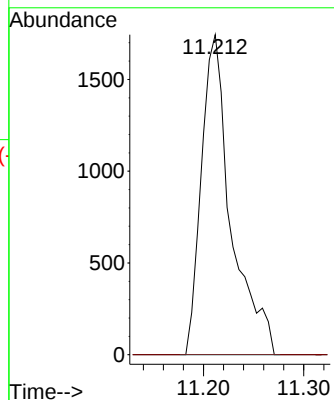
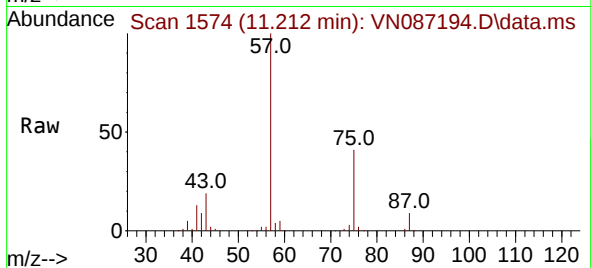
MH-M/N

Tgt Ion: 76 Resp: 3586

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 15.831 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087194.D

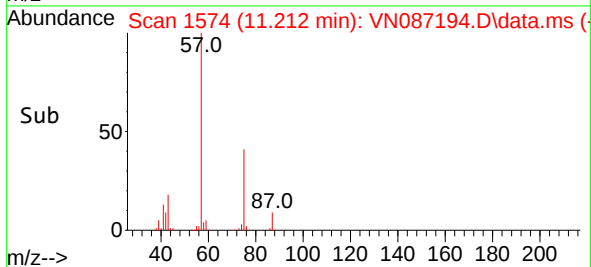
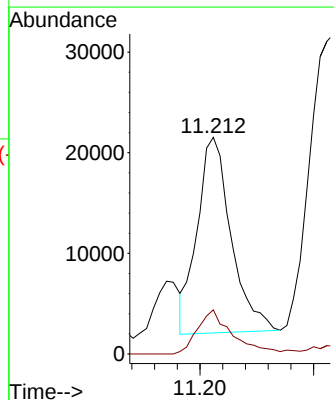
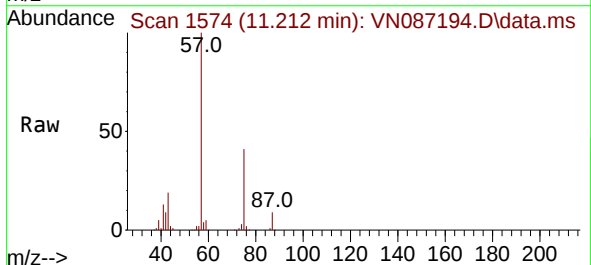
Acq: 26 Jun 2025 14:49

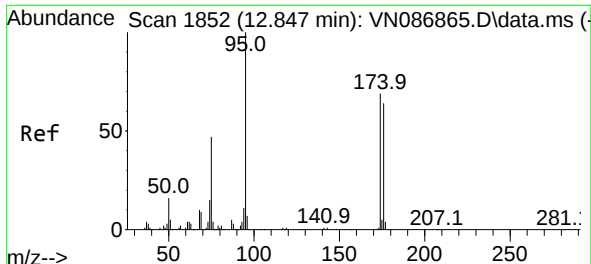
Tgt Ion: 43 Resp: 40362

Ion Ratio Lower Upper

43 100

58 23.0 30.4 91.3#

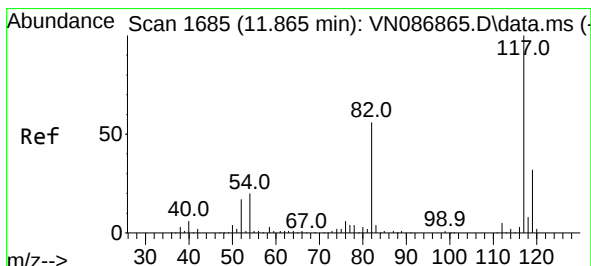
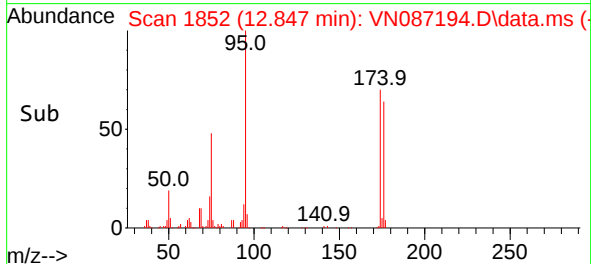
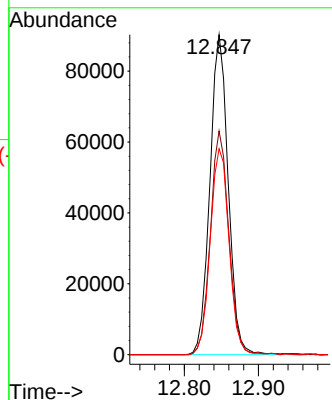
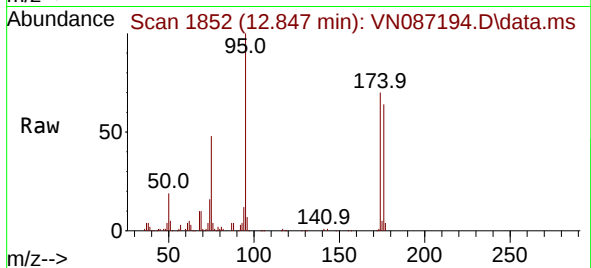




#62
4-Bromofluorobenzene
Concen: 48.785 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

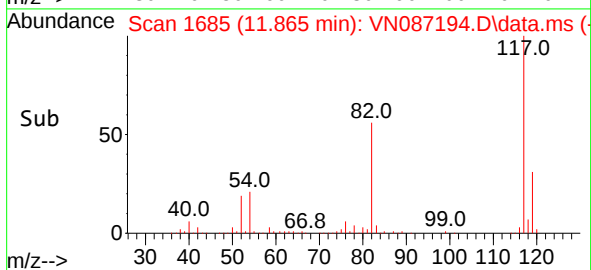
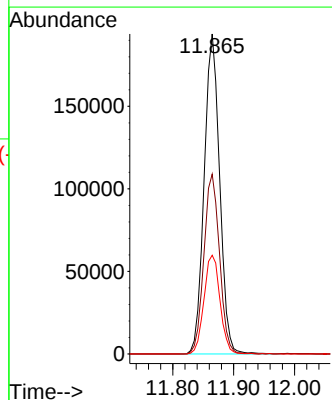
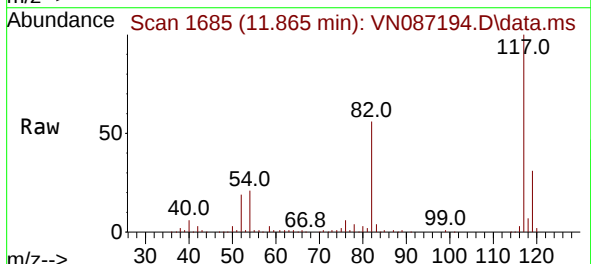
Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

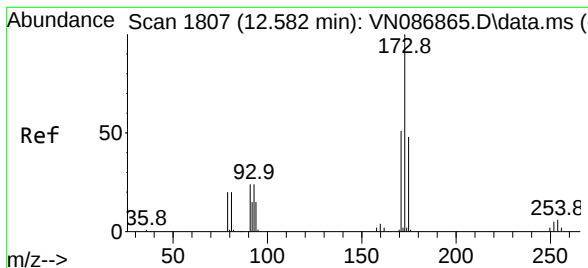
Tgt Ion: 95 Resp: 154950
Ion Ratio Lower Upper
95 100
174 70.5 0.0 141.8
176 66.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 117 Resp: 342365
Ion Ratio Lower Upper
117 100
82 56.2 44.6 67.0
119 30.8 25.5 38.3





#71

Bromoform

Concen: 0.493 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087194.D

Acq: 26 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

MH-M/N

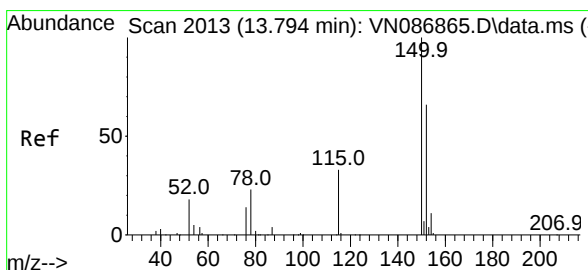
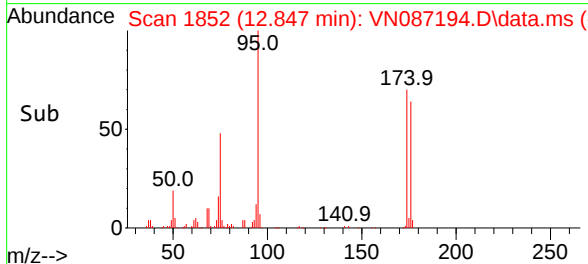
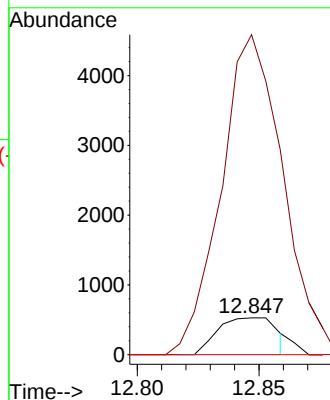
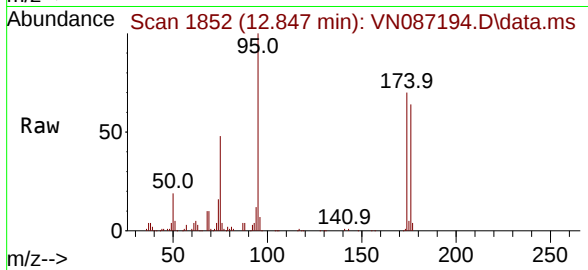
Tgt Ion:173 Resp: 887

Ion Ratio Lower Upper

173 100

175 807.7 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: VN087194.D

Acq: 26 Jun 2025 14:49

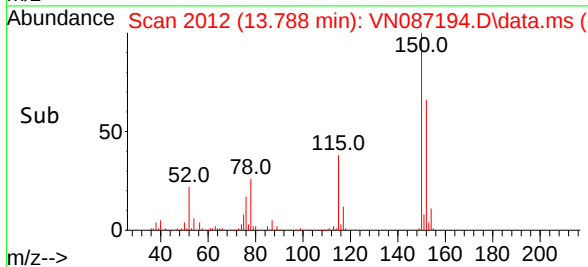
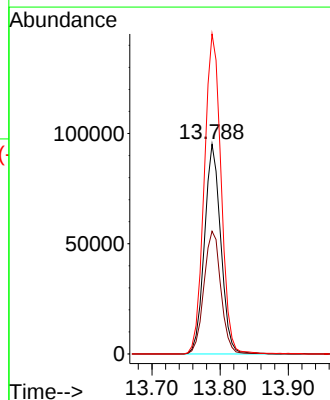
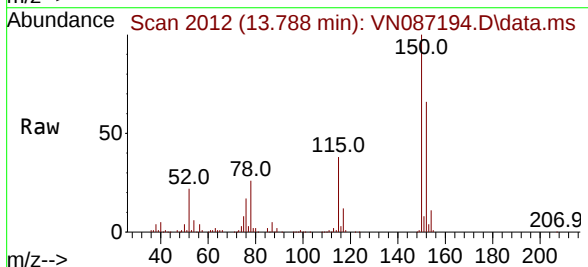
Tgt Ion:152 Resp: 158203

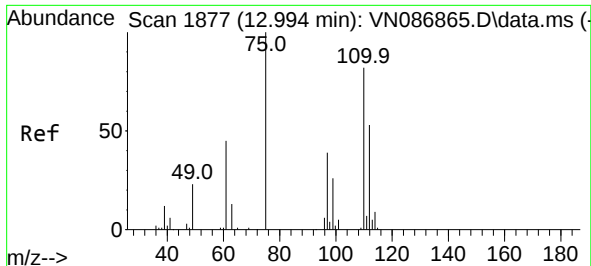
Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.5

150 157.4 0.0 345.0

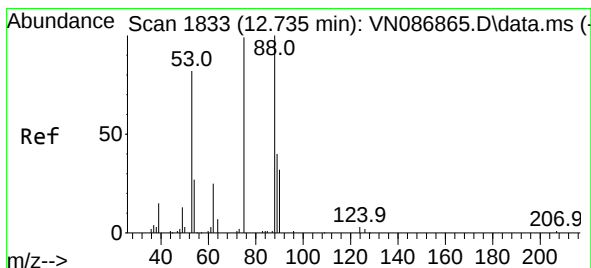
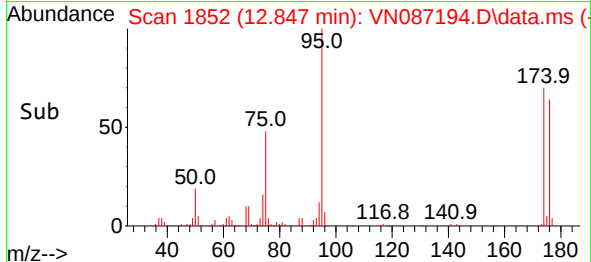
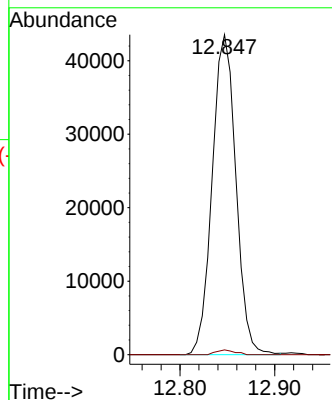
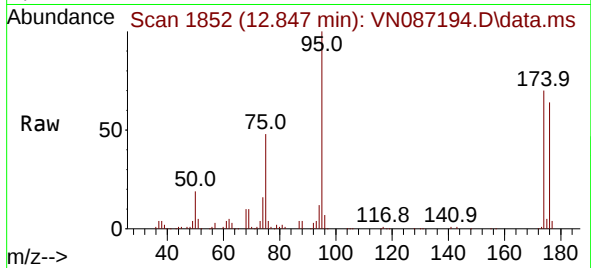




#76
1,2,3-Trichloropropane
Concen: 20.143 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
MH-M/N

Tgt Ion: 75 Resp: 75747
Ion Ratio Lower Upper
75 100
77 1.2 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.367 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087194.D
Acq: 26 Jun 2025 14:49

Tgt Ion: 75 Resp: 75747
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#

