

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087191.D
 Acq On : 26 Jun 2025 13:47
 Operator : JC\MD
 Sample : Q2394-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-K/L

Quant Time: Jun 27 01:25:36 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	215822	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	450043	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	394824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	190079	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	166315	57.556	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.120%	
35) Dibromofluoromethane	8.177	113	129667	48.618	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.240%	
50) Toluene-d8	10.565	98	535488	50.718	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.440%	
62) 4-Bromofluorobenzene	12.847	95	189388	48.280	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 96.560%	

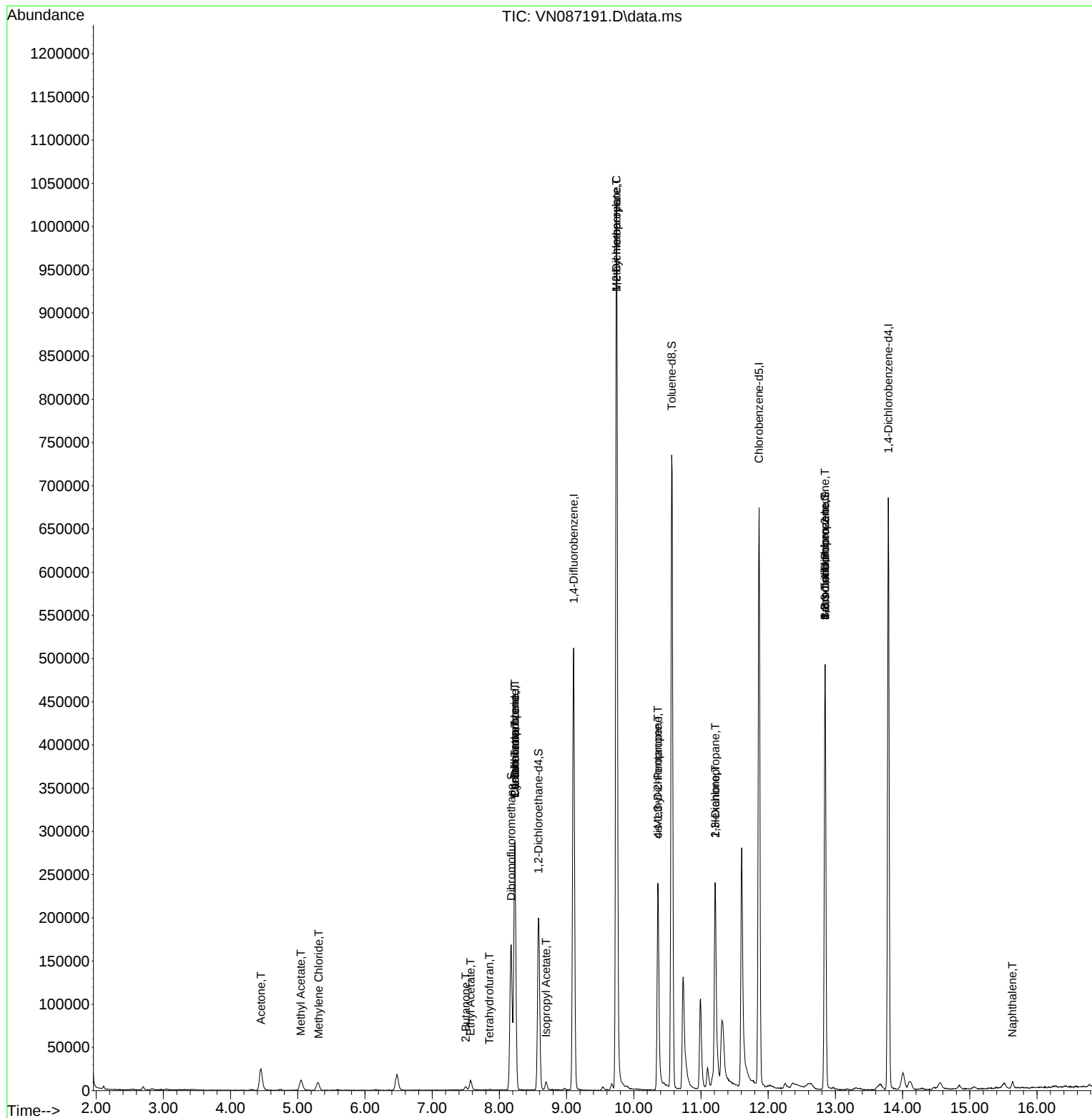
Target Compounds					Qvalue	
16) Acetone	4.453	43	51884	33.858	ug/l	95
18) Methyl Acetate	5.047	43	27149	6.080	ug/l	96
20) Methylene Chloride	5.312	84	7882	2.747	ug/l	96
25) 2-Butanone	7.500	43	7038	2.826	ug/l #	89
29) Tetrahydrofuran	7.853	42	347	0.214	ug/l #	46
31) Cyclohexane	8.229	56	4758	1.015	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	18742	4.716	ug/l #	47
37) Ethyl Acetate	7.571	43	18302	3.618	ug/l	95
38) Carbon Tetrachloride	8.229	117	21339	5.469	ug/l #	17
43) Isopropyl Acetate	8.694	43	10991	1.354	ug/l #	88
45) 1,2-Dichloropropane	9.741	63	1463	0.463	ug/l #	43
48) Methyl methacrylate	9.741	41	92602	24.778	ug/l #	36
51) 4-Methyl-2-Pentanone	10.359	43	97283	19.901	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	52360	10.129	ug/l #	61
57) 1,3-Dichloropropane	11.212	76	3549	0.669	ug/l #	43
59) 2-Hexanone	11.212	43	52223	16.586	ug/l #	44
71) Bromoform	12.847	173	1123	0.541	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	93262	20.641	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93262	47.515	ug/l #	16
95) Naphthalene	15.635	128	7602	0.533	ug/l #	95

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

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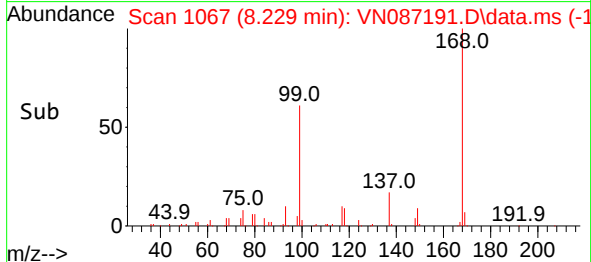
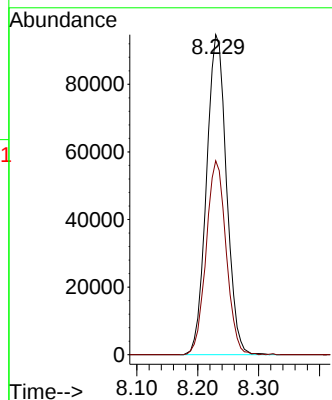
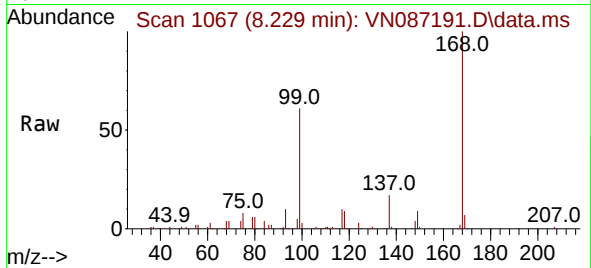




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

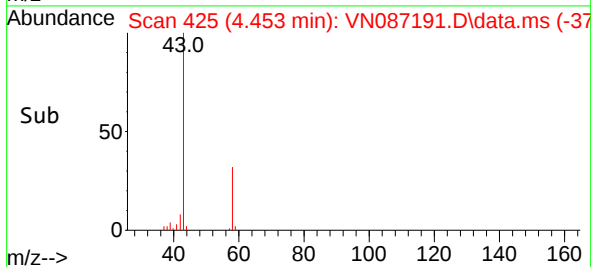
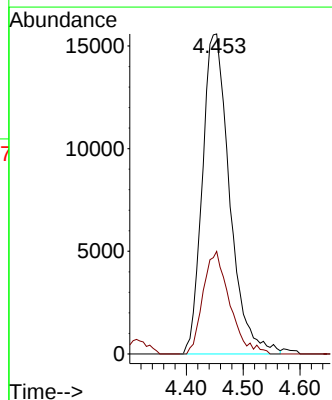
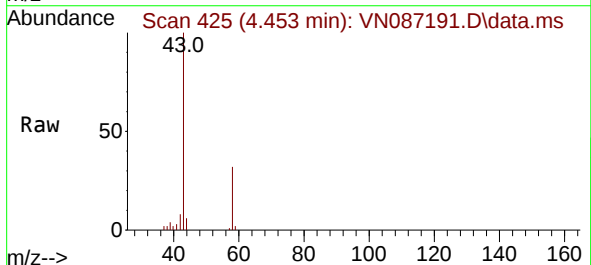
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MSVOA_N
ClientSampleId :
MH-K/L

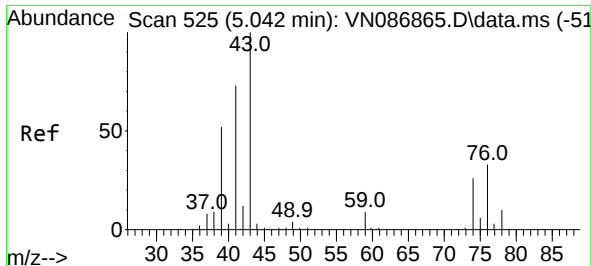
Tgt Ion:168 Resp: 215822
Ion Ratio Lower Upper
168 100
99 60.6 49.1 73.7



#16
Acetone
Concen: 33.858 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 43 Resp: 51884
Ion Ratio Lower Upper
43 100
58 32.1 28.0 42.0

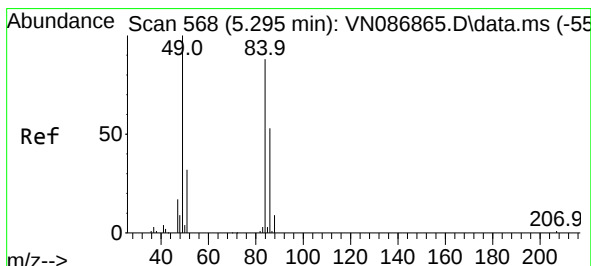
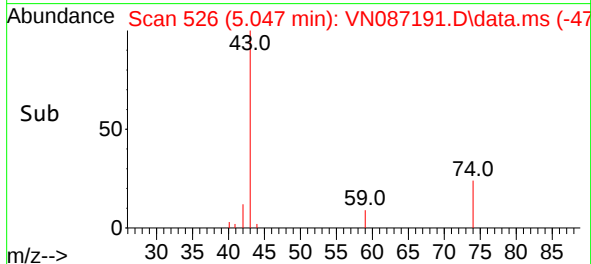
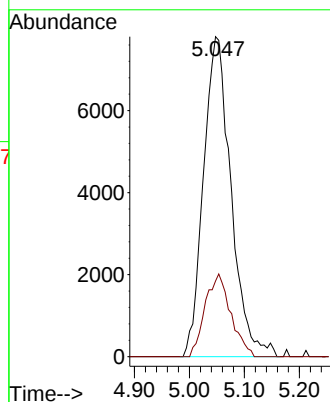
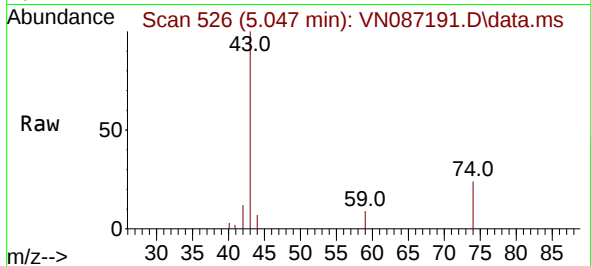




#18
Methyl Acetate
Concen: 6.080 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

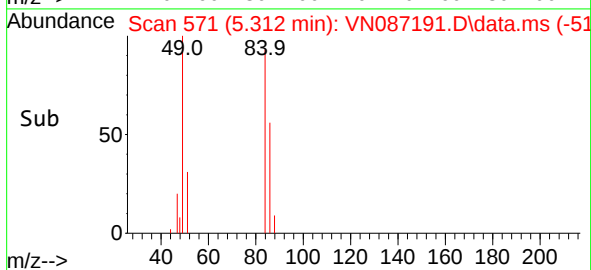
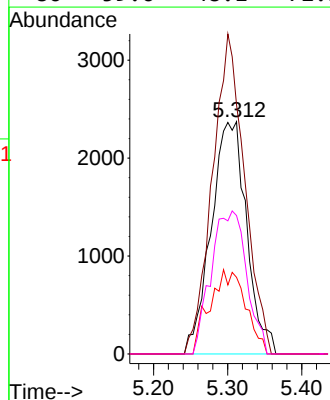
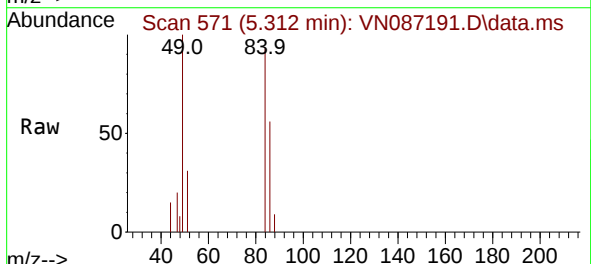
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

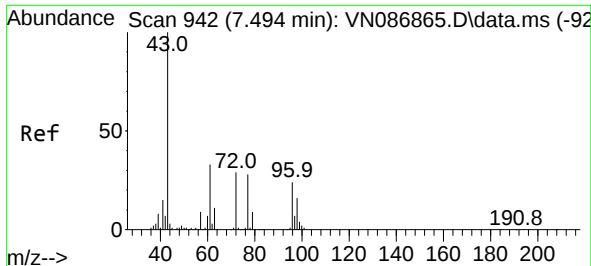
Tgt Ion: 43 Resp: 27149
Ion Ratio Lower Upper
43 100
74 24.1 20.7 31.1



#20
Methylene Chloride
Concen: 2.747 ug/l
RT: 5.312 min Scan# 571
Delta R.T. 0.017 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 84 Resp: 7882
Ion Ratio Lower Upper
84 100
49 107.3 90.5 135.7
51 33.0 28.5 42.7
86 59.6 48.1 72.1

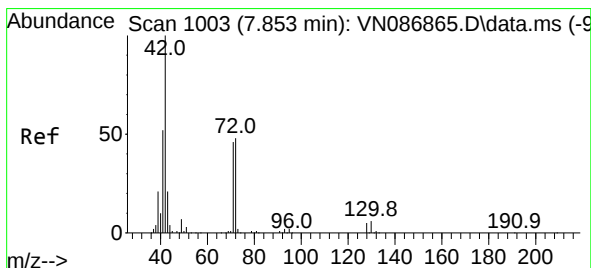
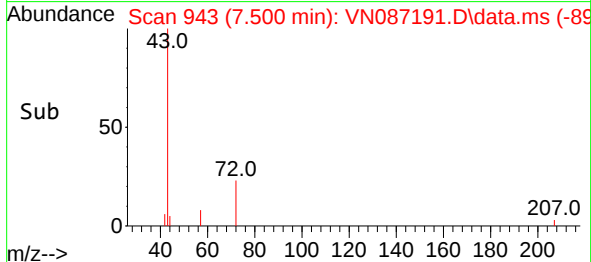
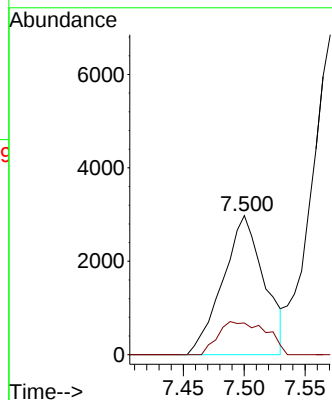
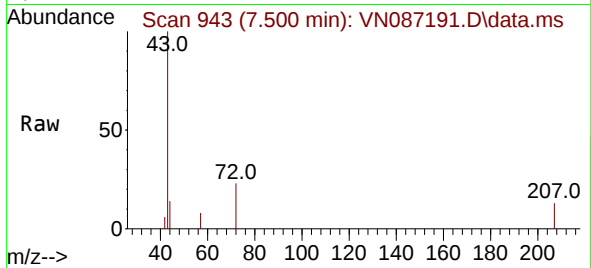




#25
2-Butanone
Concen: 2.826 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

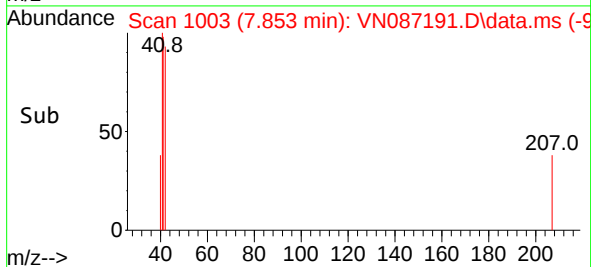
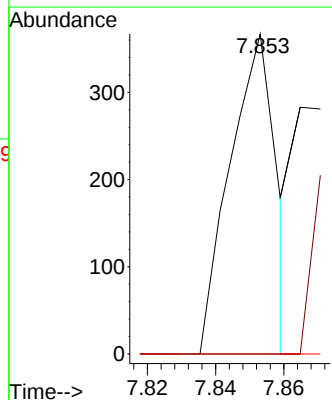
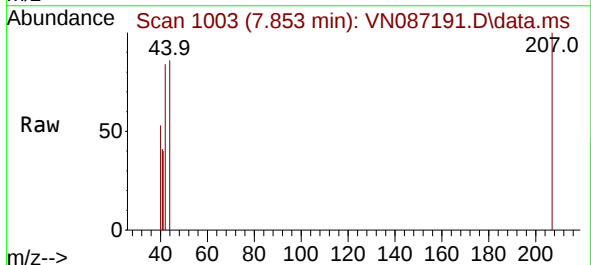
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

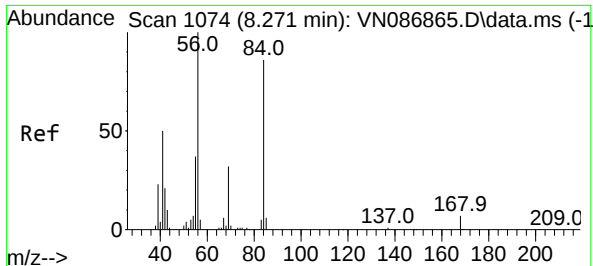
Tgt Ion: 43 Resp: 7038
Ion Ratio Lower Upper
43 100
72 22.7 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.214 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 42 Resp: 347
Ion Ratio Lower Upper
42 100
72 20.7 37.8 56.6#
71 0.0 35.6 53.4#

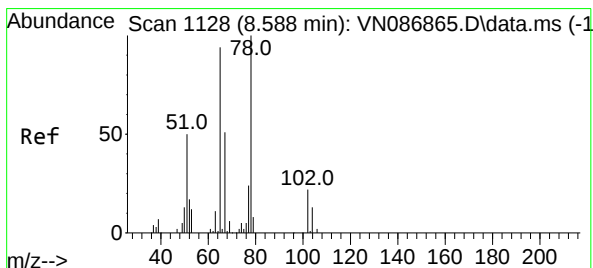
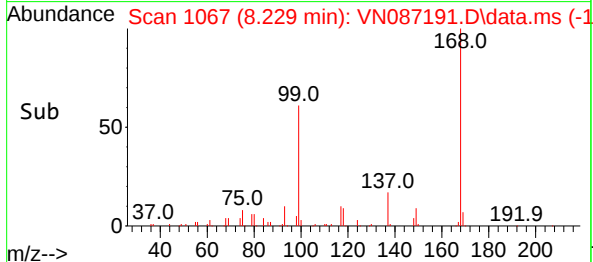
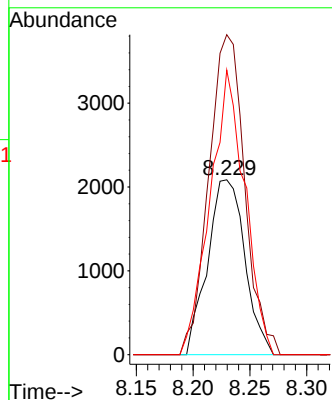
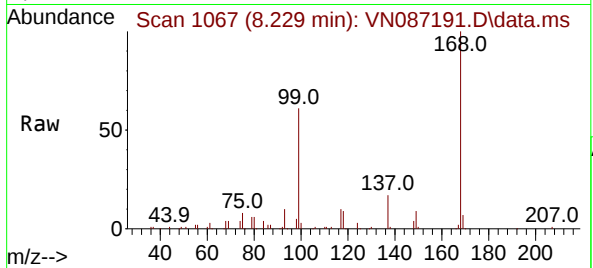




#31
Cyclohexane
Concen: 1.015 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

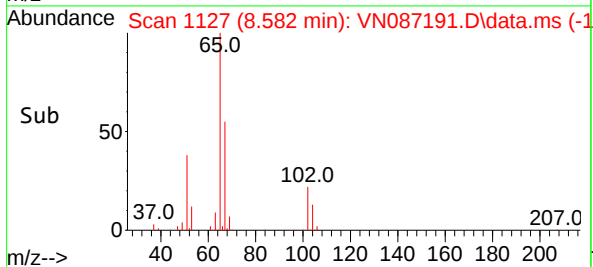
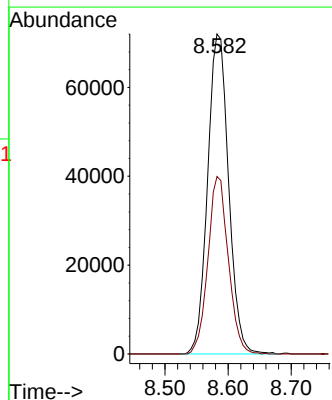
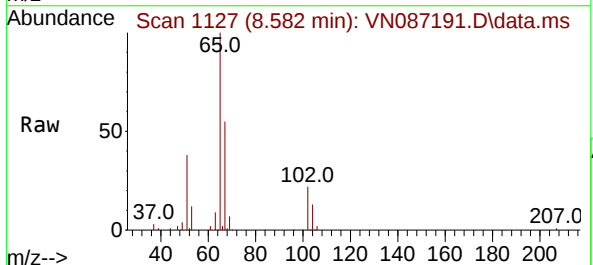
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

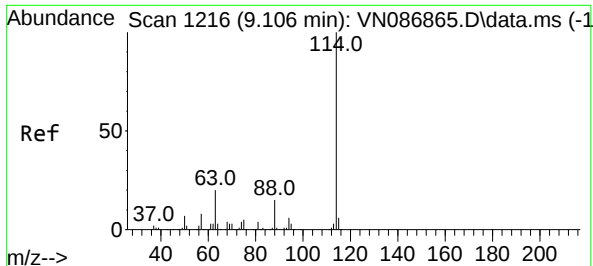
Tgt Ion: 56 Resp: 4758
Ion Ratio Lower Upper
56 100
69 182.9 25.4 38.0#
84 162.7 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 57.556 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 65 Resp: 166315
Ion Ratio Lower Upper
65 100
67 53.9 0.0 105.6

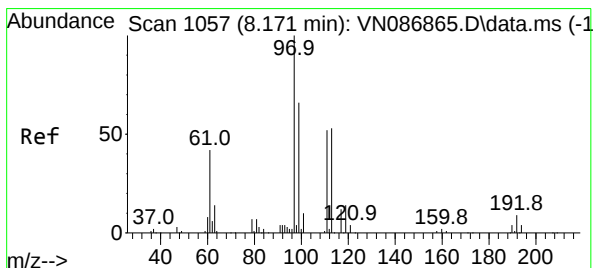
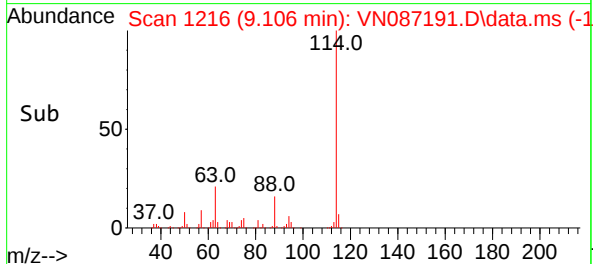
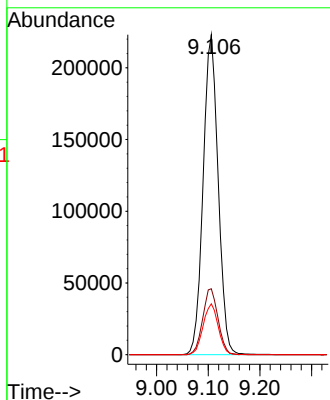
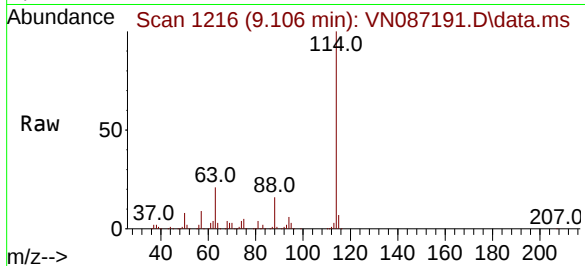




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

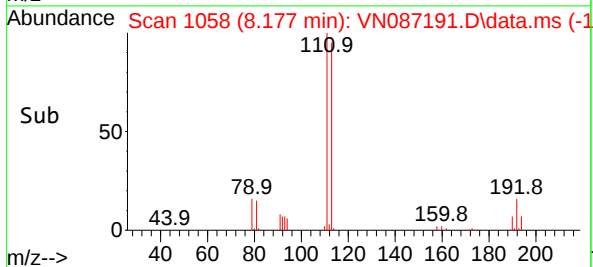
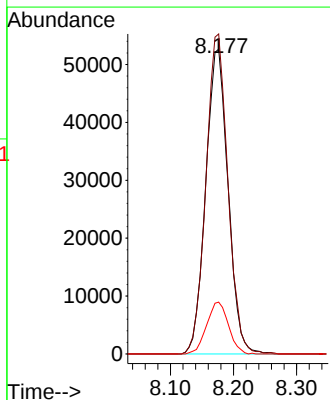
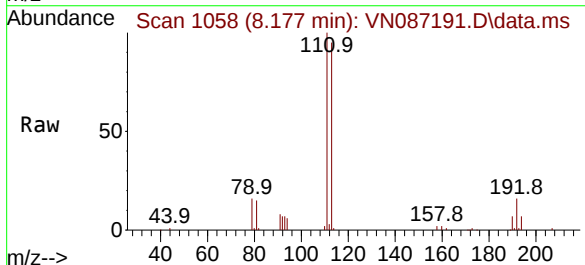
Instrument :
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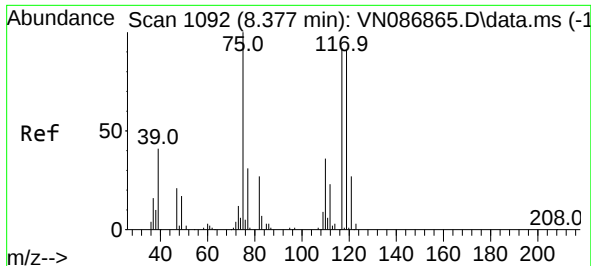
Tgt Ion:114 Resp: 450043
Ion Ratio Lower Upper
114 100
63 20.6 0.0 39.6
88 15.9 0.0 30.2



#35
Dibromofluoromethane
Concen: 48.618 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion:113 Resp: 129667
Ion Ratio Lower Upper
113 100
111 103.0 84.2 126.2
192 16.6 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.716 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087191.D

Acq: 26 Jun 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

MH-K/L

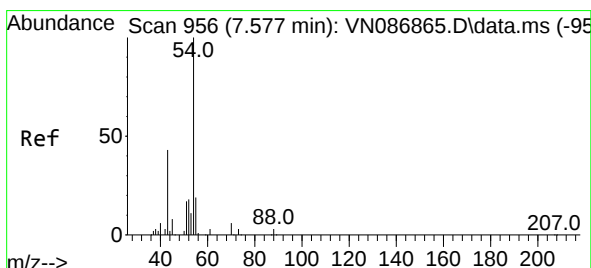
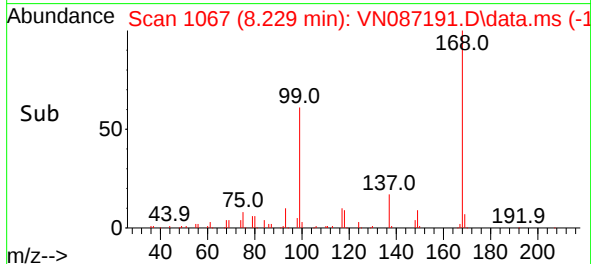
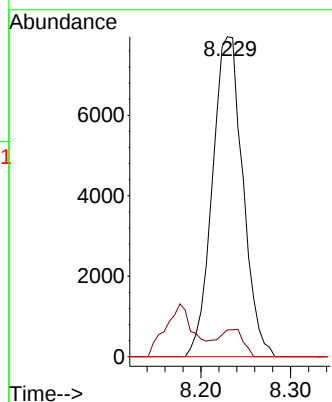
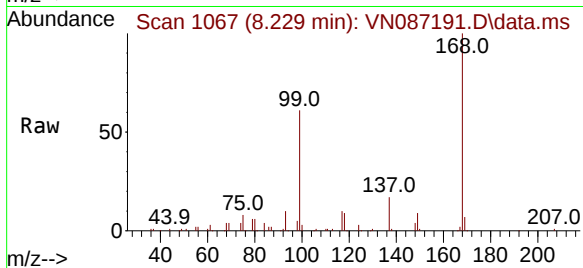
Tgt Ion: 75 Resp: 18742

Ion Ratio Lower Upper

75 100

110 6.7 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 3.618 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN087191.D

Acq: 26 Jun 2025 13:47

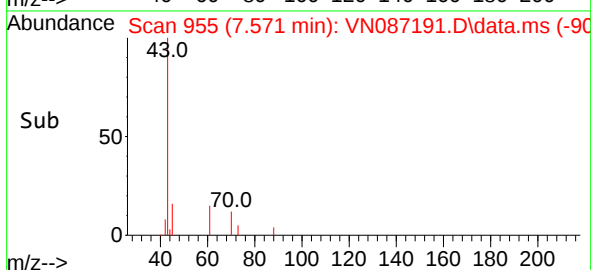
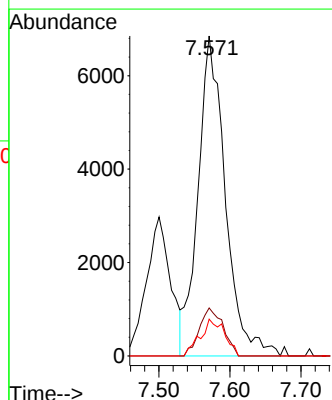
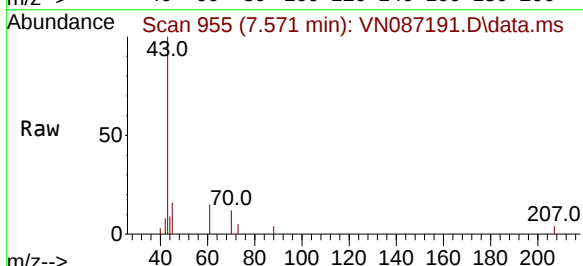
Tgt Ion: 43 Resp: 18302

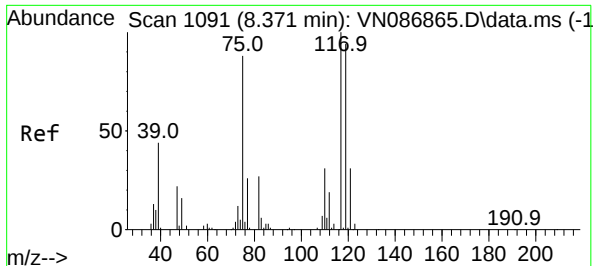
Ion Ratio Lower Upper

43 100

61 13.1 12.1 18.1

70 10.3 9.8 14.6

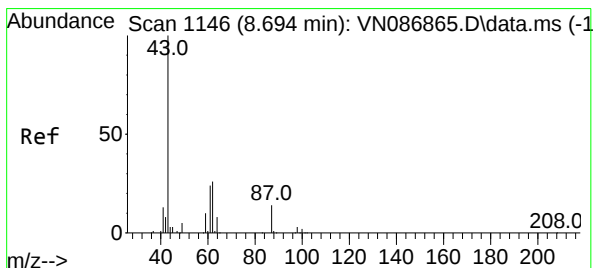
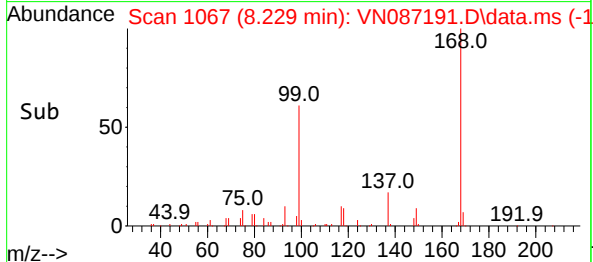
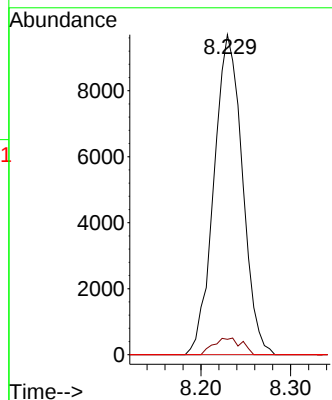
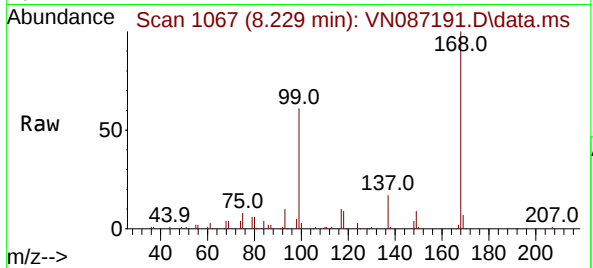




#38
Carbon Tetrachloride
Concen: 5.469 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

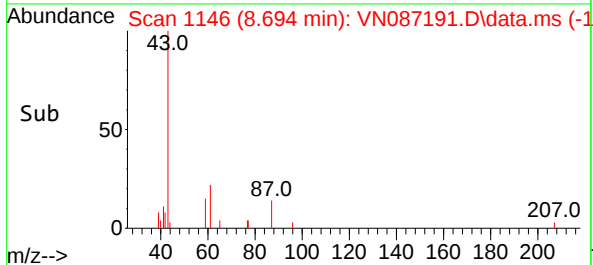
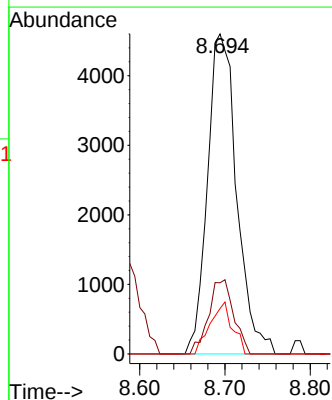
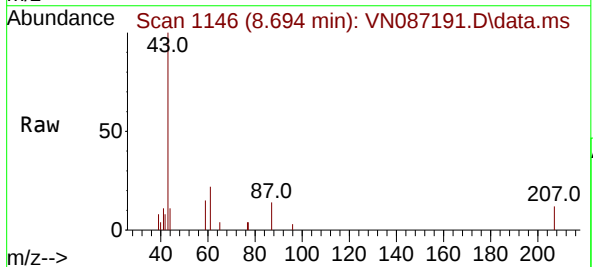
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

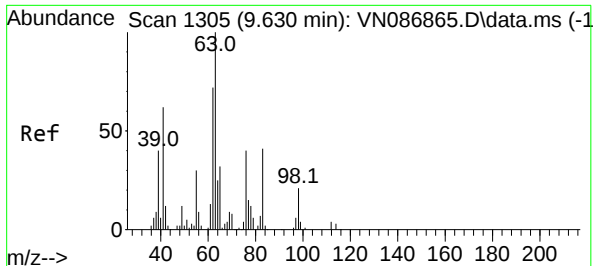
Tgt Ion:117 Resp: 21339
Ion Ratio Lower Upper
117 100
119 4.8 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.354 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 43 Resp: 10991
Ion Ratio Lower Upper
43 100
61 19.9 22.1 33.1#
87 12.4 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.463 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.112 min

Lab File: VN087191.D

Acq: 26 Jun 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

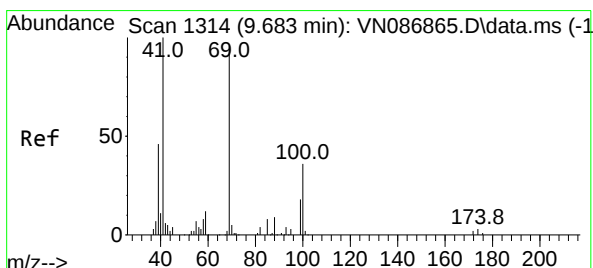
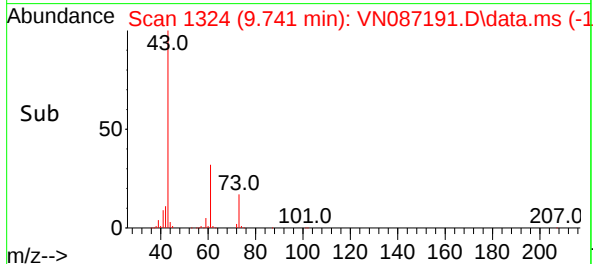
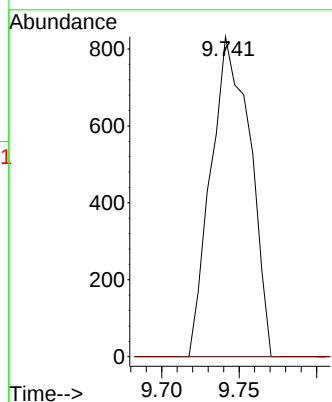
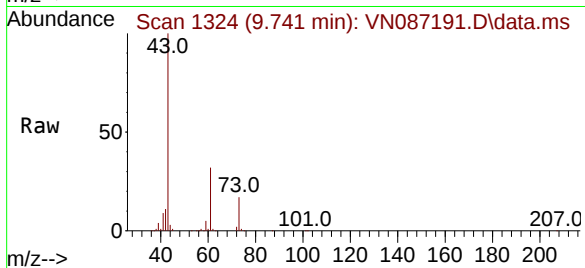
MH-K/L

Tgt Ion: 63 Resp: 1463

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 24.778 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087191.D

Acq: 26 Jun 2025 13:47

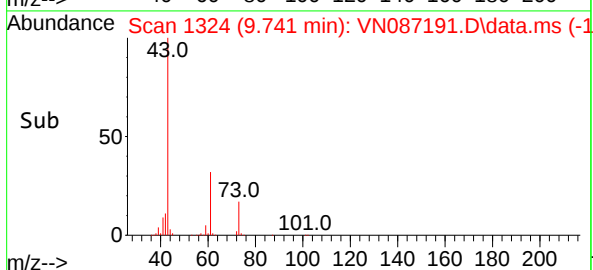
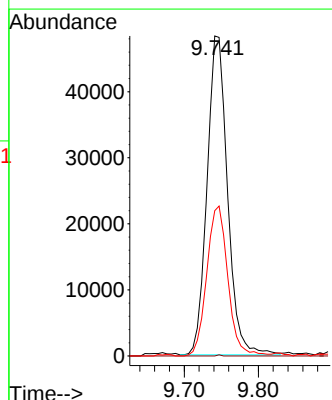
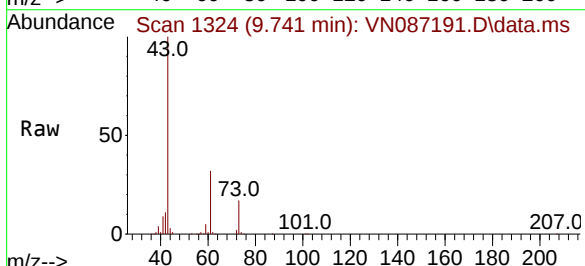
Tgt Ion: 41 Resp: 92602

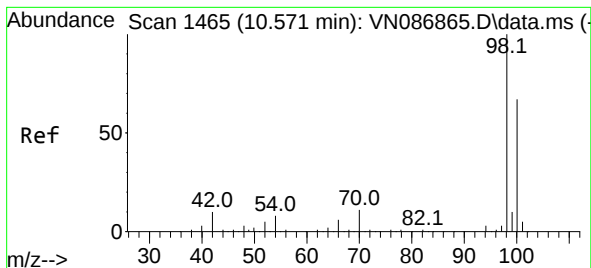
Ion Ratio Lower Upper

41 100

69 0.1 74.6 112.0#

39 48.4 40.2 60.4





#50

Toluene-d8

Concen: 50.718 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN087191.D

Acq: 26 Jun 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

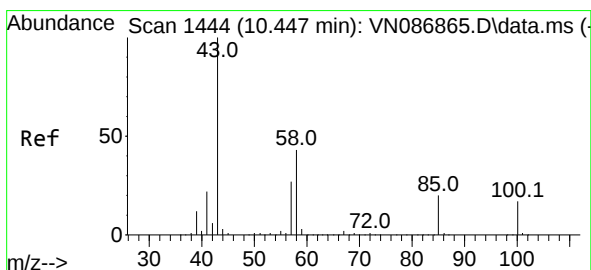
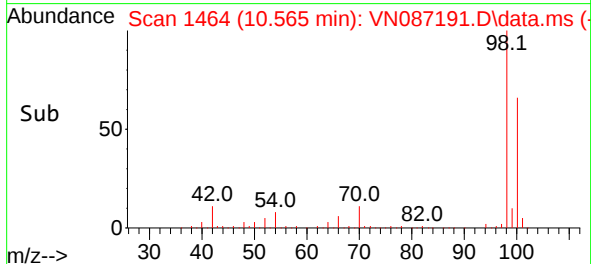
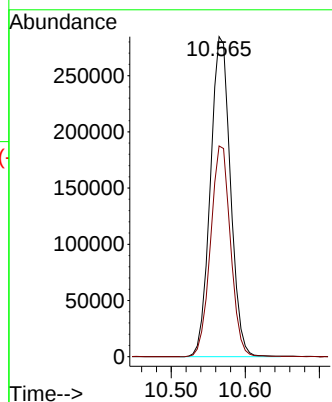
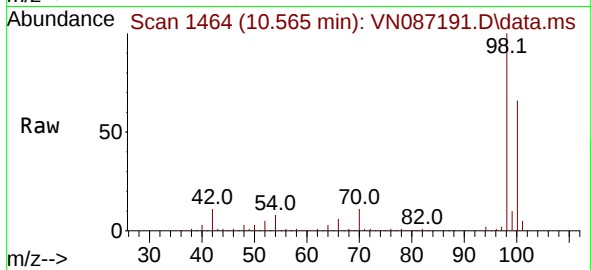
MH-K/L

Tgt Ion: 98 Resp: 535488

Ion Ratio Lower Upper

98 100

100 65.6 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 19.901 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. -0.088 min

Lab File: VN087191.D

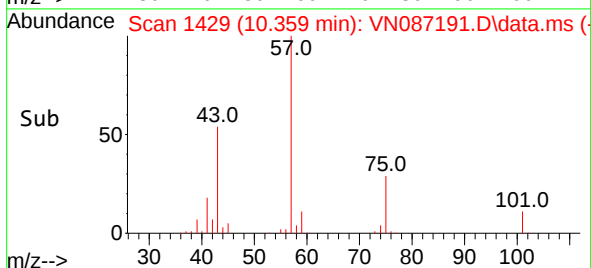
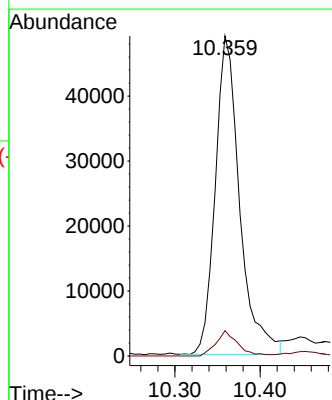
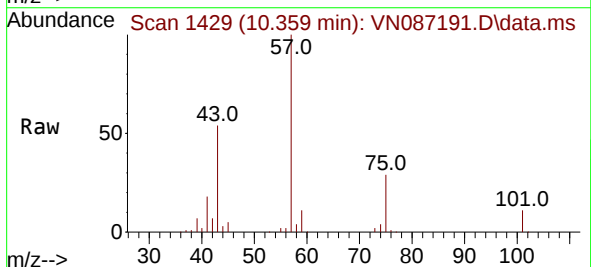
Acq: 26 Jun 2025 13:47

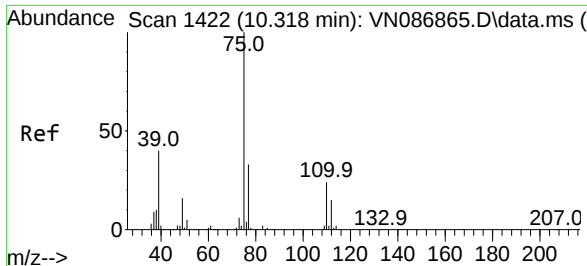
Tgt Ion: 43 Resp: 97283

Ion Ratio Lower Upper

43 100

58 7.1 34.2 51.4#

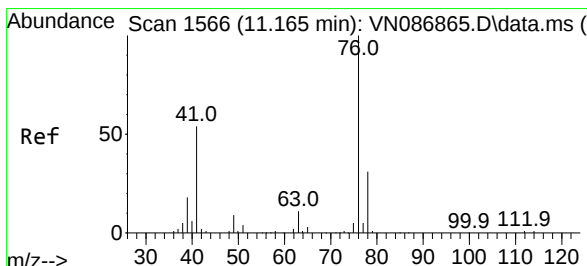
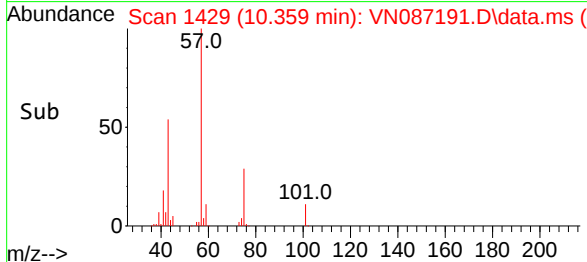
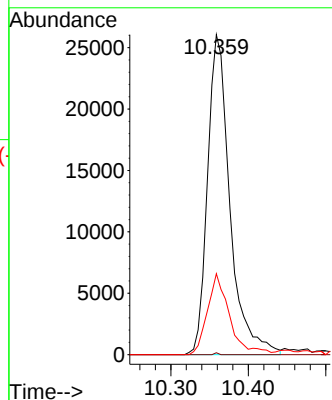
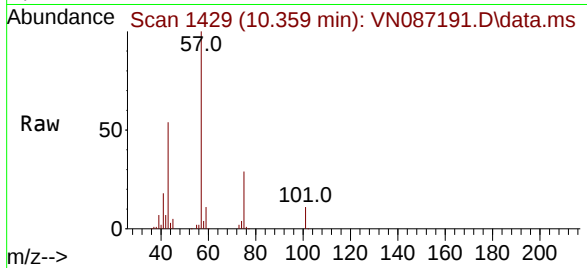




#54
 cis-1,3-Dichloropropene
 Concen: 10.129 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN087191.D
 Acq: 26 Jun 2025 13:47

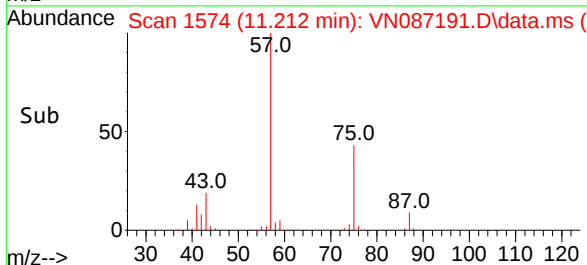
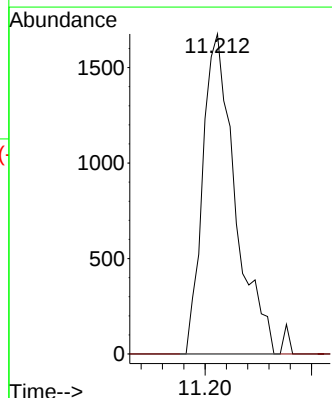
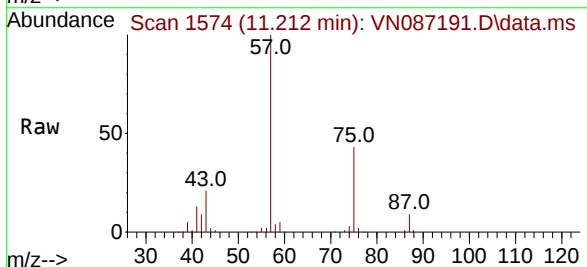
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-K/L

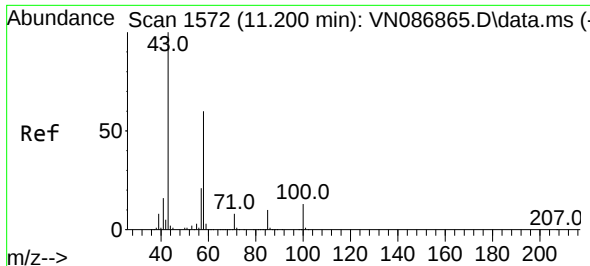
Tgt Ion: 75 Resp: 52360
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.2 39.4#
 39 25.3 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.669 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN087191.D
 Acq: 26 Jun 2025 13:47

Tgt Ion: 76 Resp: 3549
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

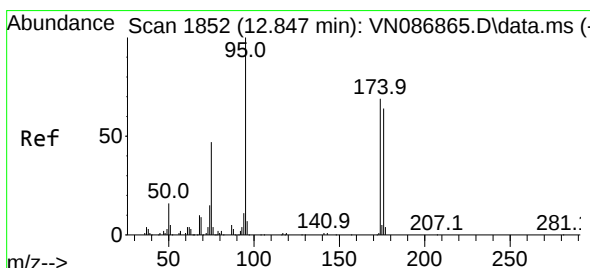
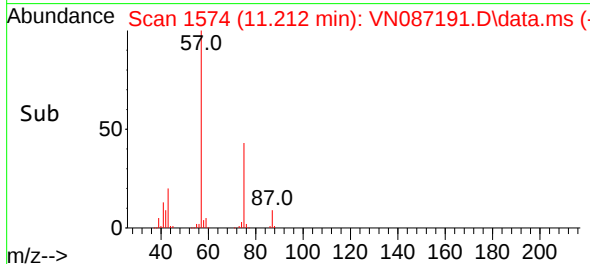
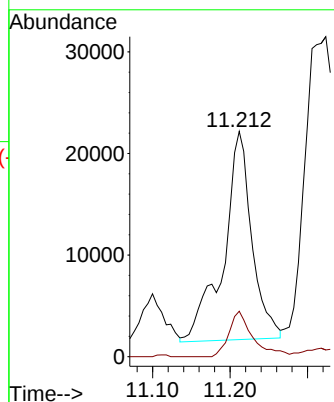
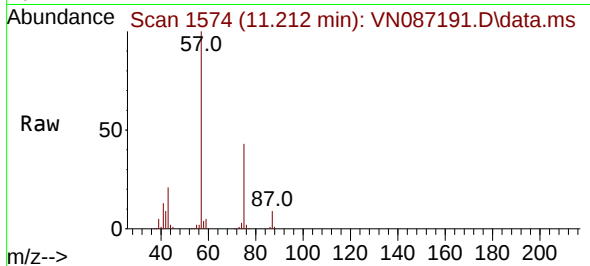




#59
2-Hexanone
Concen: 16.586 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

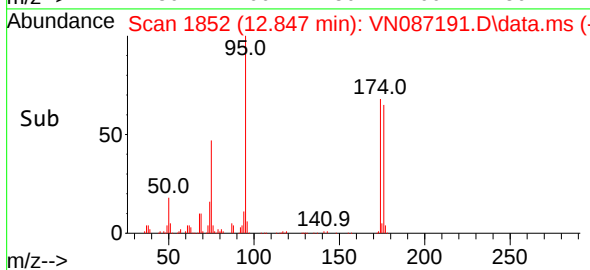
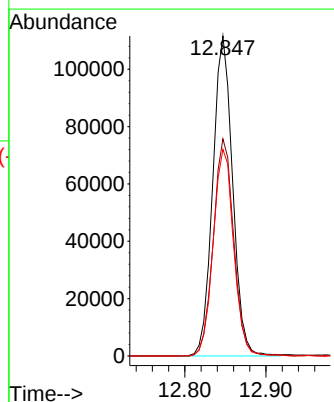
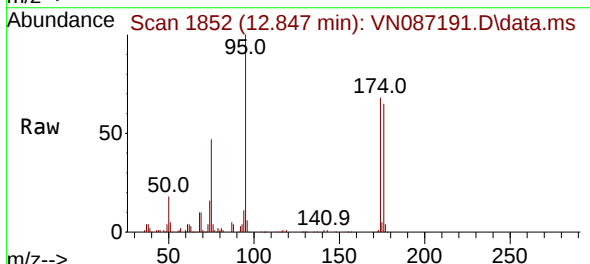
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

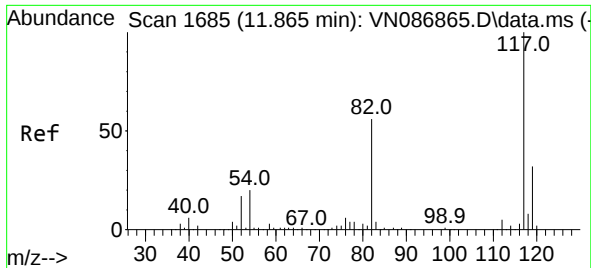
Tgt Ion: 43 Resp: 52223
Ion Ratio Lower Upper
43 100
58 18.4 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 48.280 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 95 Resp: 189388
Ion Ratio Lower Upper
95 100
174 69.8 0.0 141.8
176 66.6 0.0 132.6

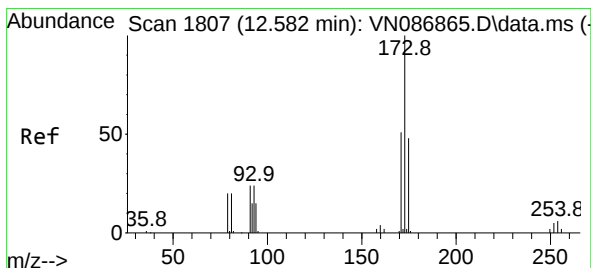
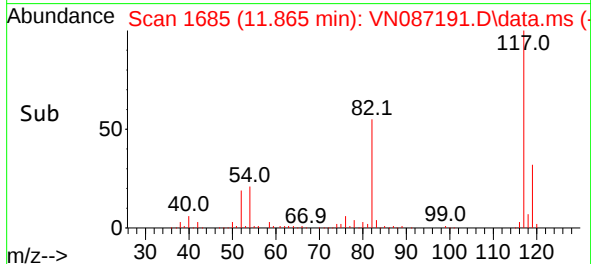
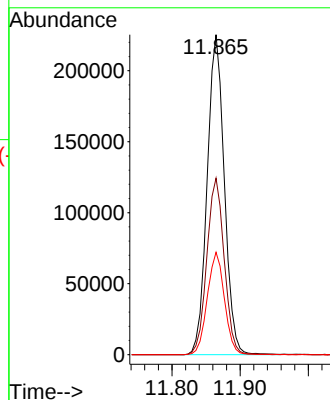
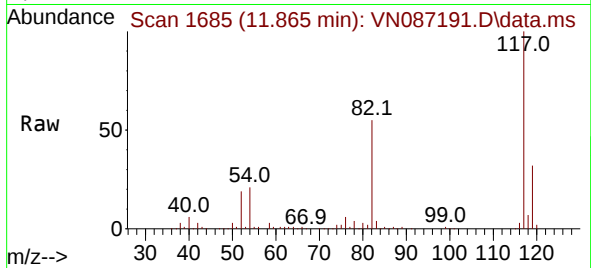




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

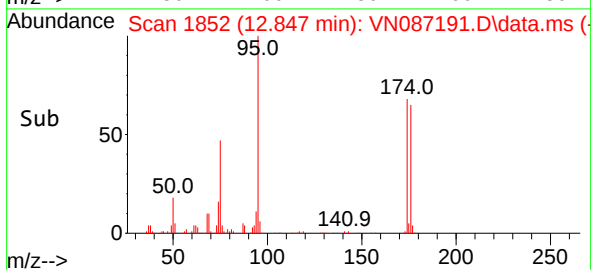
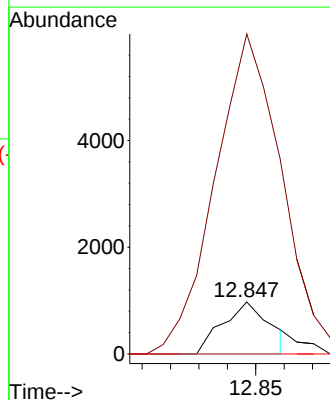
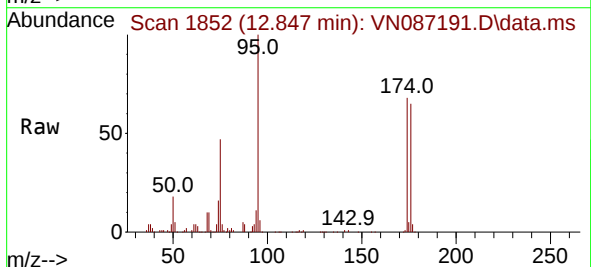
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

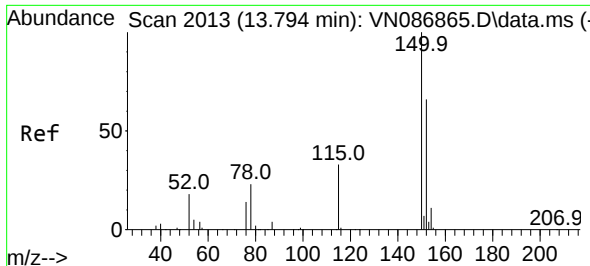
Tgt Ion:117 Resp: 394824
Ion Ratio Lower Upper
117 100
82 55.2 44.6 67.0
119 32.0 25.5 38.3



#71
Bromoform
Concen: 0.541 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.264 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion:173 Resp: 1123
Ion Ratio Lower Upper
173 100
175 780.1 24.1 72.4#
254 0.0 0.0 0.0

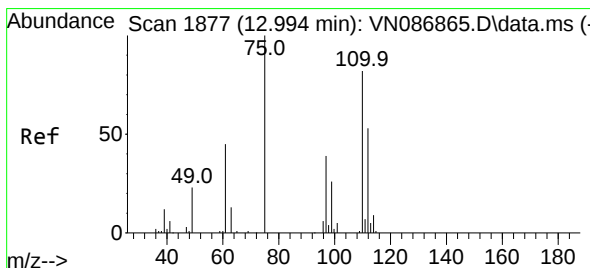
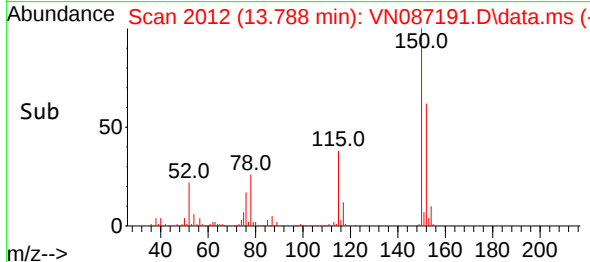
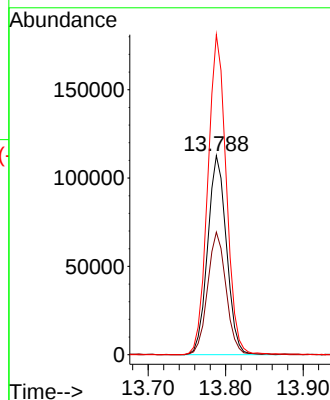
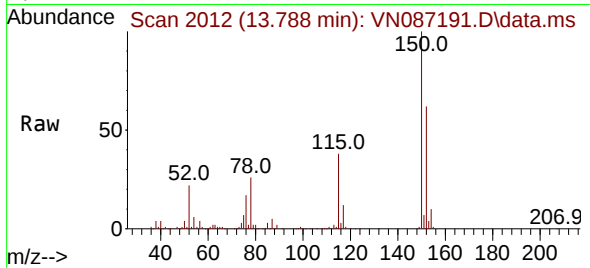




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

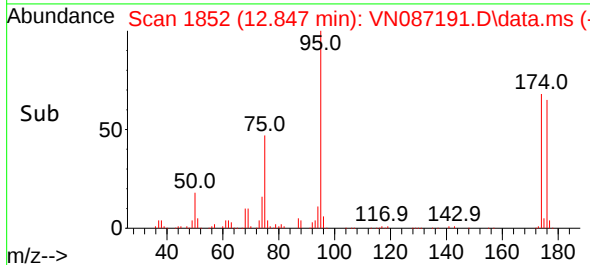
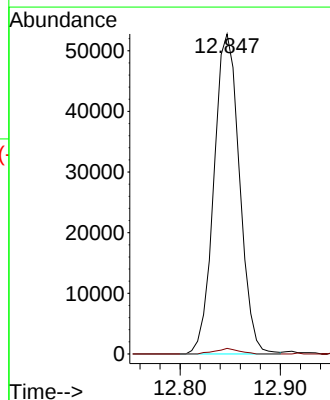
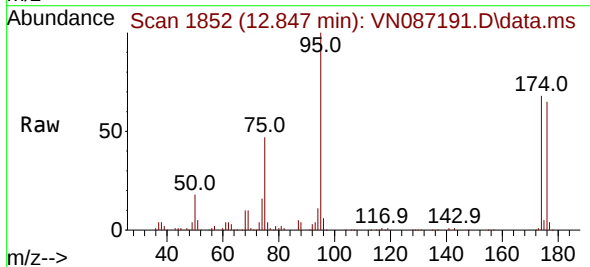
Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

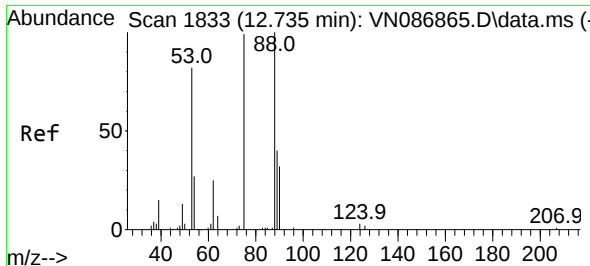
Tgt Ion:152 Resp: 190079
Ion Ratio Lower Upper
152 100
115 60.5 30.1 90.5
150 158.2 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 20.641 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 75 Resp: 93262
Ion Ratio Lower Upper
75 100
77 1.6 79.3 237.9#

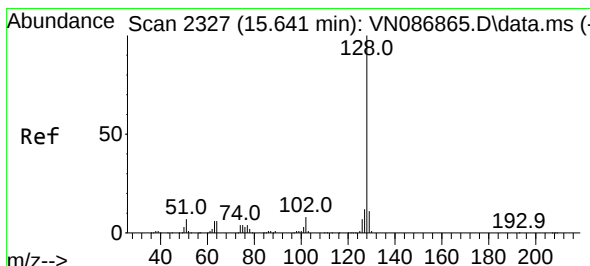
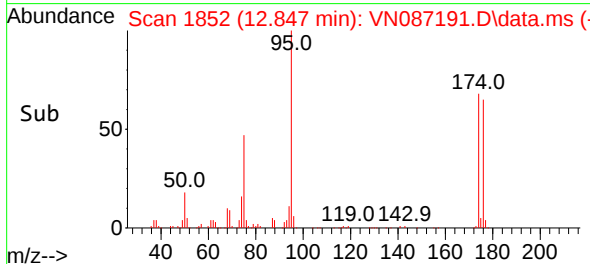
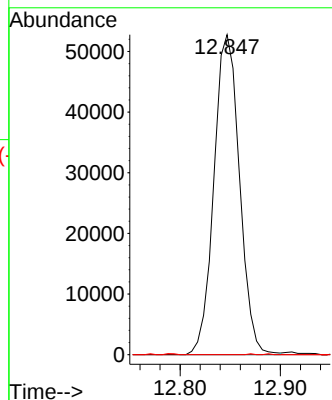
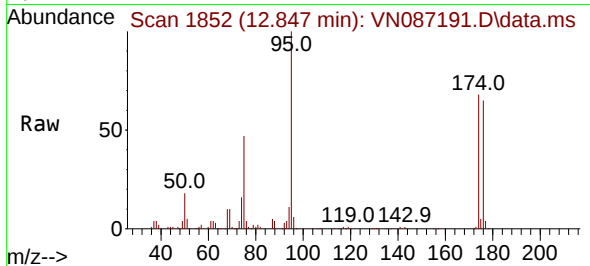




#81
trans-1,4-Dichloro-2-butene
Concen: 47.515 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Instrument :
MSVOA_N
ClientSampleId :
MH-K/L

Tgt Ion: 75 Resp: 93262
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#95
Naphthalene
Concen: 0.533 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN087191.D
Acq: 26 Jun 2025 13:47

Tgt Ion: 128 Resp: 7602
Ion Ratio Lower Upper
128 100
127 9.6 10.2 15.2#
129 11.5 8.8 13.2

