

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
 Data File : VN087088.D
 Acq On : 18 Jun 2025 16:08
 Operator : JC\MD
 Sample : Q2329-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

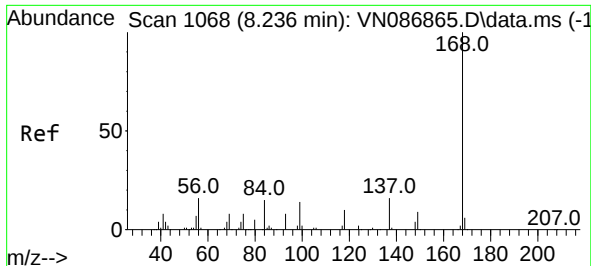
Instrument :
 MSVOA_N
 ClientSampleId :
 TT149S1-20250613

Quant Time: Jun 19 01:30:47 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	8.235	168	253025	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	501869	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	459032	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	210865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	180231	53.201	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.400%		
35) Dibromofluoromethane	8.177	113	157046	52.803	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 105.600%		
50) Toluene-d8	10.571	98	619300	52.599	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.200%		
62) 4-Bromofluorobenzene	12.847	95	221136	50.552	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 101.100%		
Target Compounds						
					Qvalue	
16) Acetone	4.447	43	710	0.395	ug/l #	40
19) Methyl tert-butyl Ether	5.818	73	57929	5.681	ug/l	98
31) Cyclohexane	8.235	56	4391	0.799	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	19153	4.322	ug/l #	47
38) Carbon Tetrachloride	8.235	117	23783	5.466	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	1531	0.348	ug/l #	72
44) Trichloroethene	9.353	130	9488	2.761	ug/l	98
51) 4-Methyl-2-Pentanone	10.565	43	2029	0.372	ug/l #	1
60) Dibromochloromethane	11.106	129	2047	0.577	ug/l #	11
64) Tetrachloroethene	11.106	164	2065	0.711	ug/l #	75
71) Bromoform	12.853	173	1248	0.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	101294	20.209	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	101294	46.520	ug/l #	16
87) 1,3-Dichlorobenzene	13.817	146	1489	0.215	ug/l #	50
88) 1,4-Dichlorobenzene	13.817	146	1489	0.211	ug/l #	51

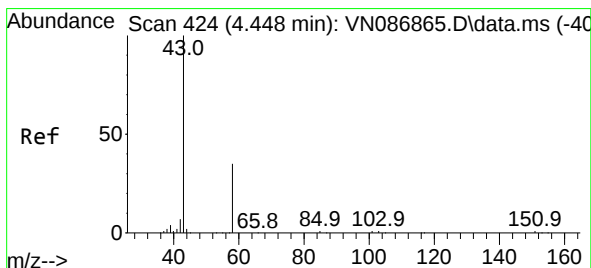
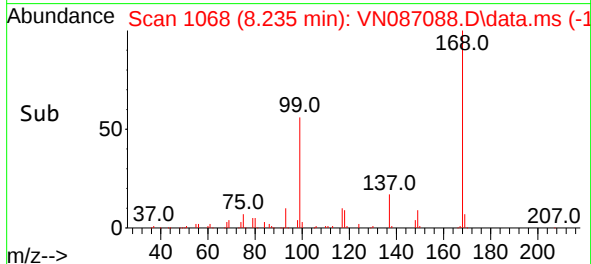
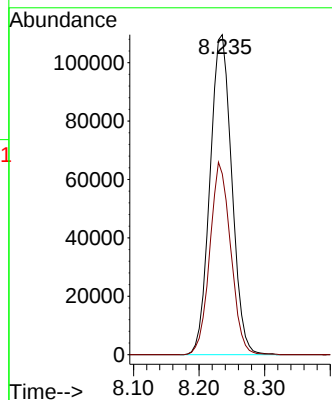
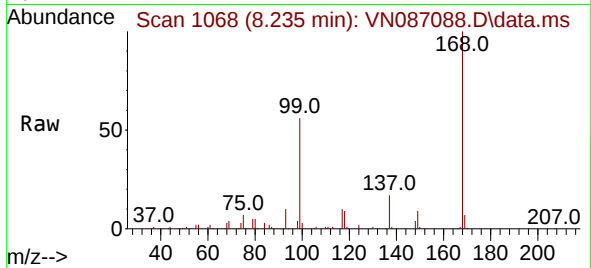
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

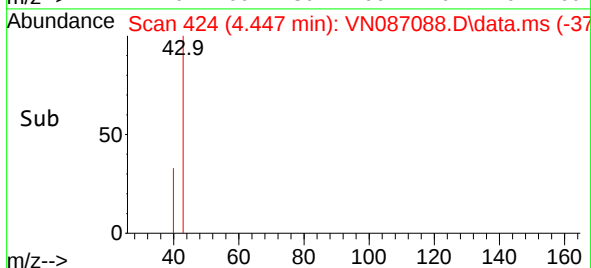
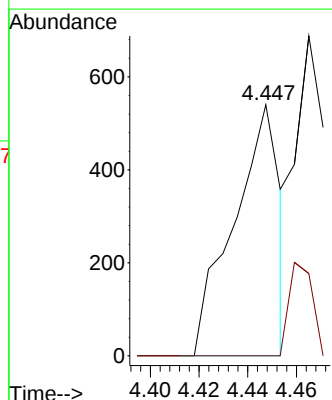
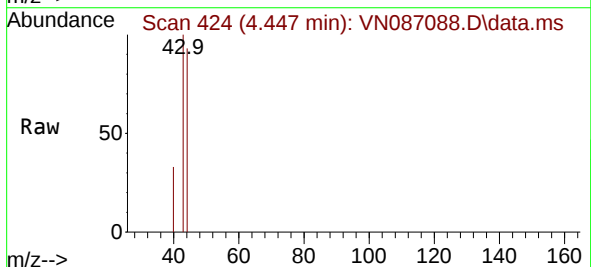
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

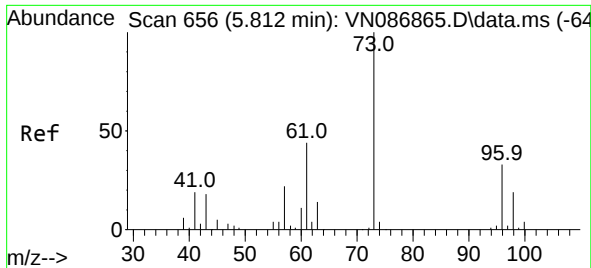
Tgt Ion:168 Resp: 253025
Ion Ratio Lower Upper
168 100
99 56.5 49.1 73.7



#16
Acetone
Concen: 0.395 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 43 Resp: 710
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

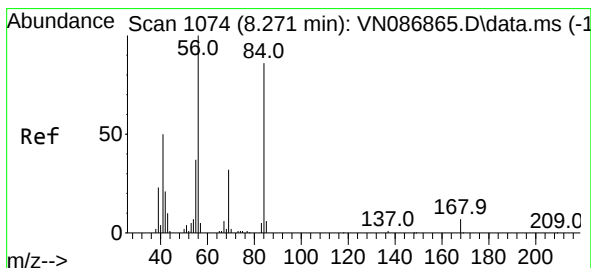
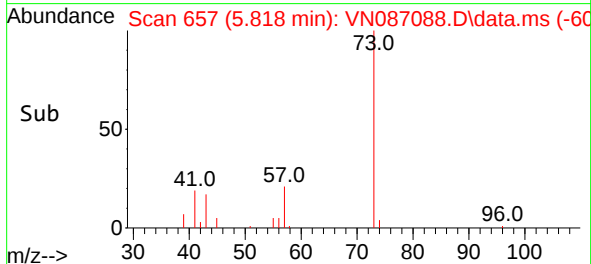
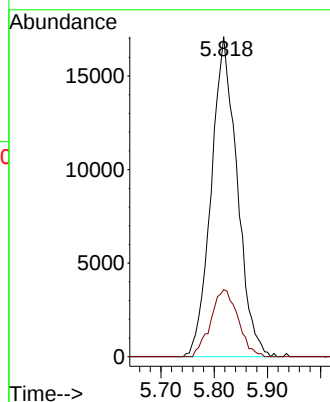
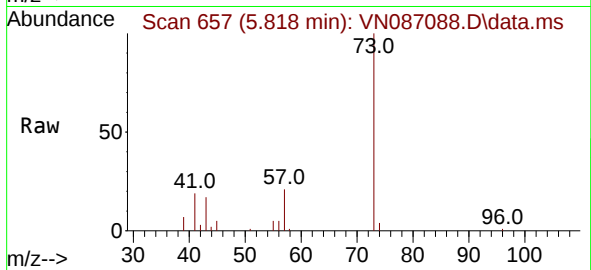




#19
Methyl tert-butyl Ether
Concen: 5.681 ug/l
RT: 5.818 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

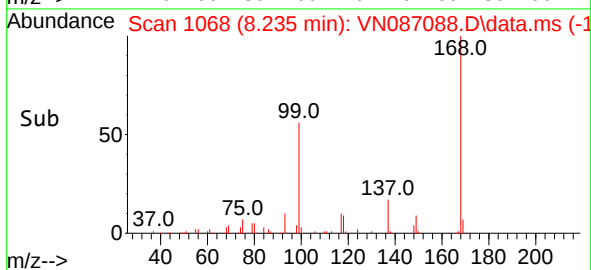
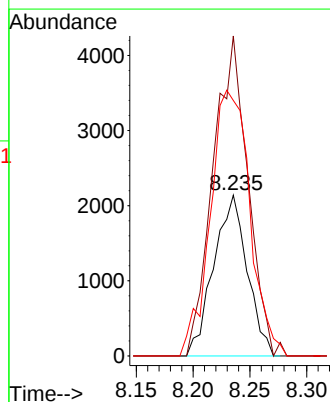
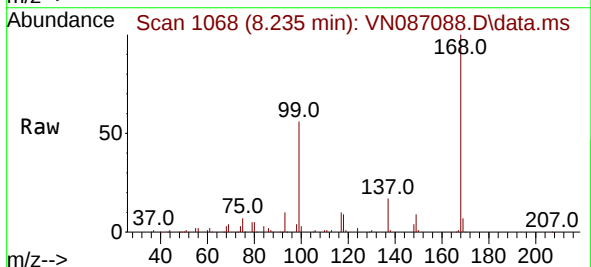
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MSVOA_N
ClientSampleId :
TT149S1-20250613

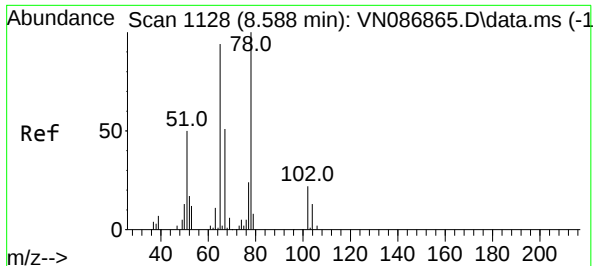
Tgt Ion: 73 Resp: 57929
Ion Ratio Lower Upper
73 100
57 21.0 17.4 26.2



#31
Cyclohexane
Concen: 0.799 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 56 Resp: 4391
Ion Ratio Lower Upper
56 100
69 199.0 25.4 38.0#
84 158.9 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.201 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087088.D

Acq: 18 Jun 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

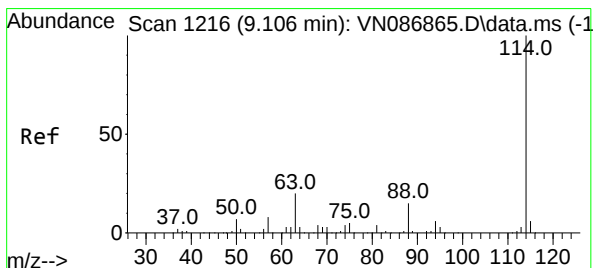
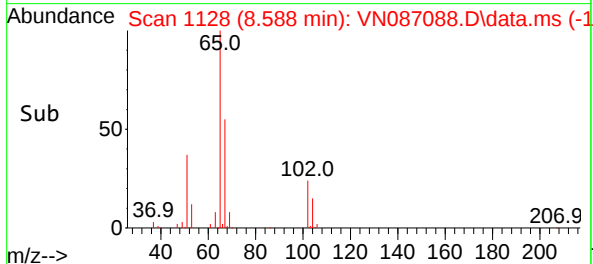
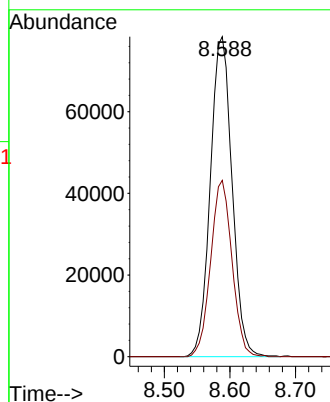
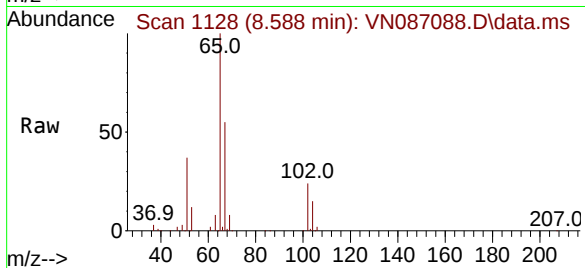
TT149S1-20250613

Tgt Ion: 65 Resp: 180231

Ion Ratio Lower Upper

65 100

67 54.1 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: VN087088.D

Acq: 18 Jun 2025 16:08

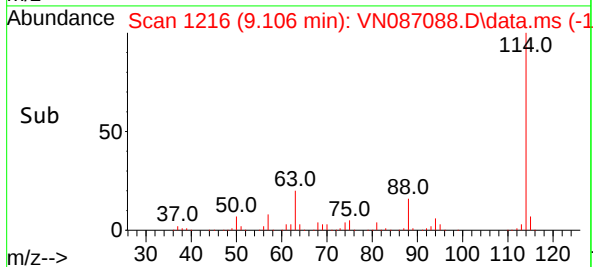
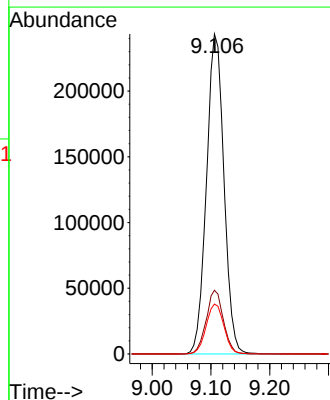
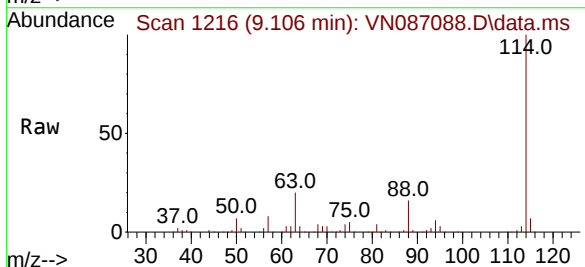
Tgt Ion: 114 Resp: 501869

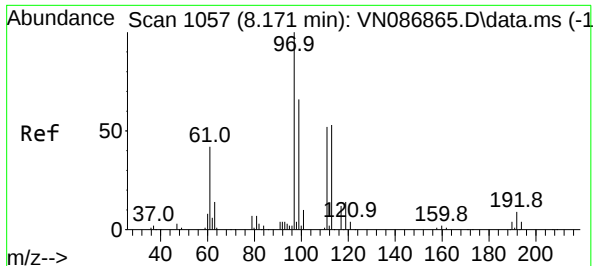
Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 15.6 0.0 30.2

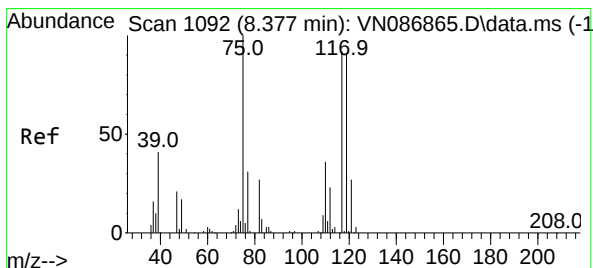
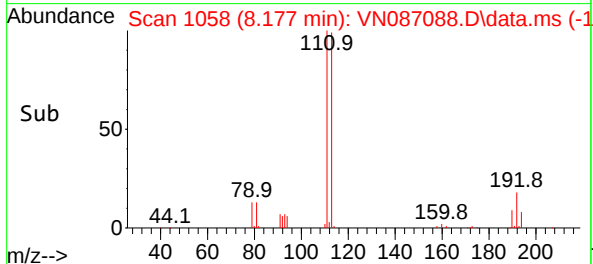
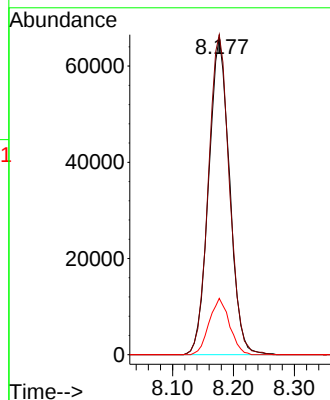
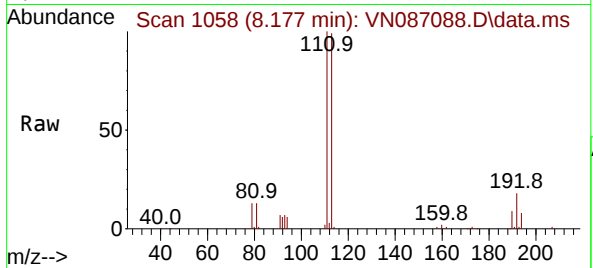




#35
Dibromofluoromethane
Concen: 52.803 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

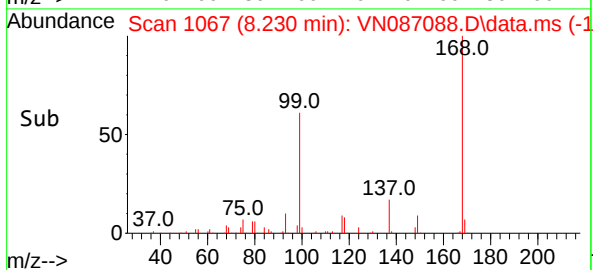
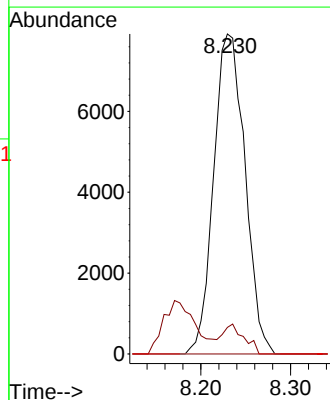
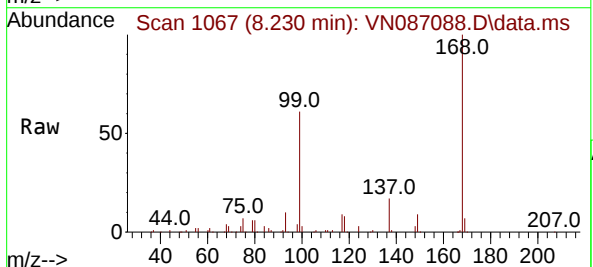
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

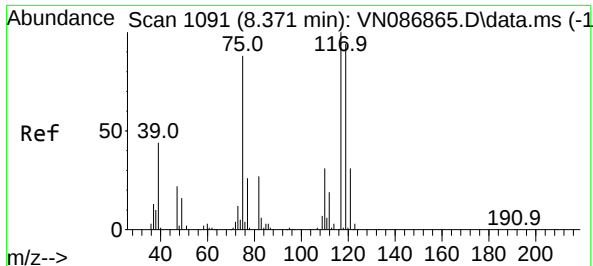
Tgt Ion:113 Resp: 157046
Ion Ratio Lower Upper
113 100
111 101.5 84.2 126.2
192 17.3 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.322 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

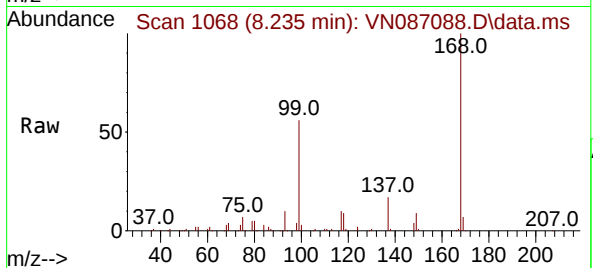
Tgt Ion: 75 Resp: 19153
Ion Ratio Lower Upper
75 100
110 6.2 17.6 52.9#
77 0.0 25.3 37.9#



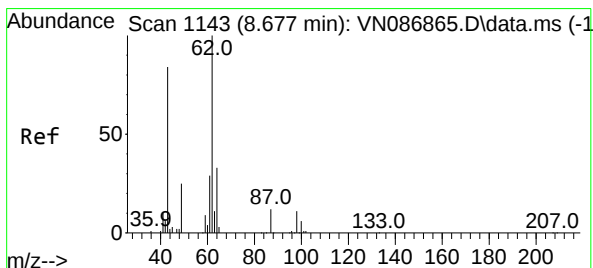
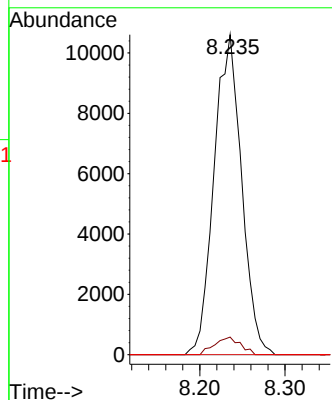
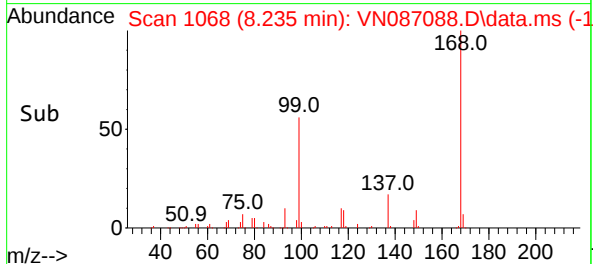


#38
Carbon Tetrachloride
Concen: 5.466 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

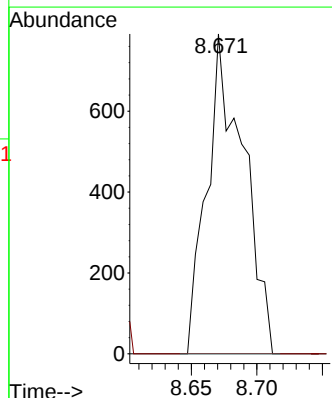
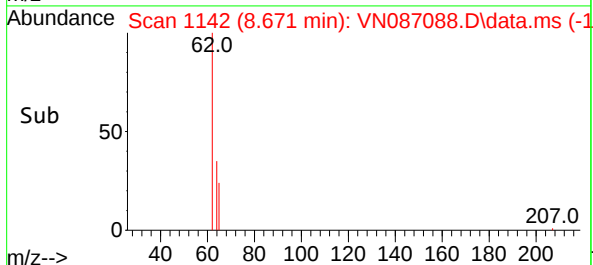
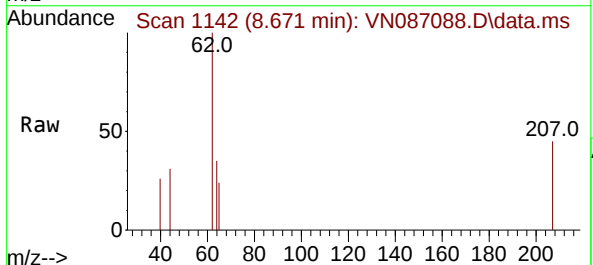


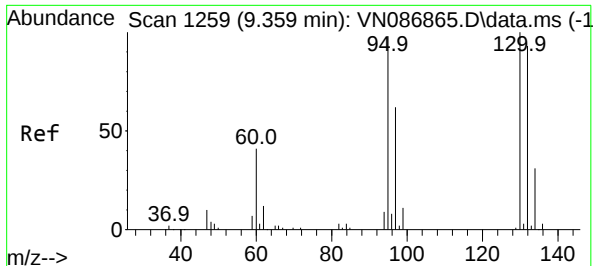
Tgt Ion:117 Resp: 23783
Ion Ratio Lower Upper
117 100
119 5.5 75.0 112.6#
121 0.0 24.9 37.3#



#42
1,2-Dichloroethane
Concen: 0.348 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 62 Resp: 1531
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.2

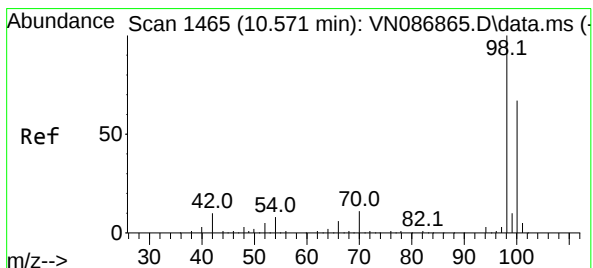
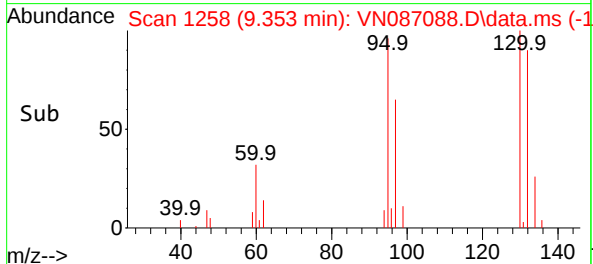
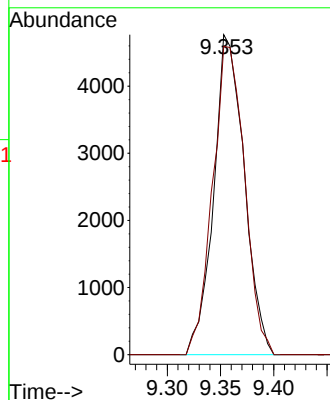
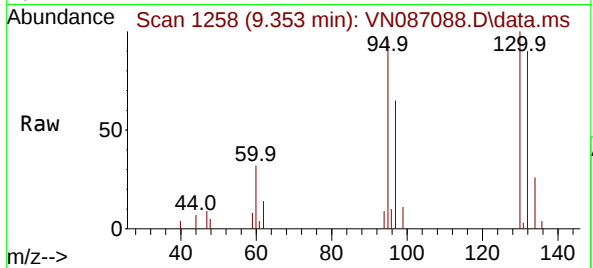




#44
Trichloroethene
Concen: 2.761 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

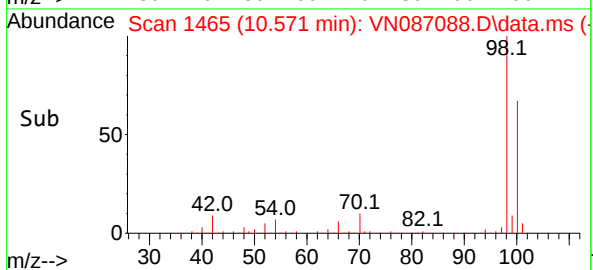
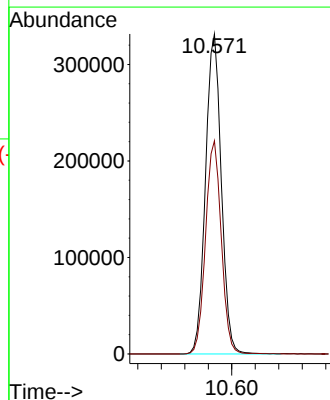
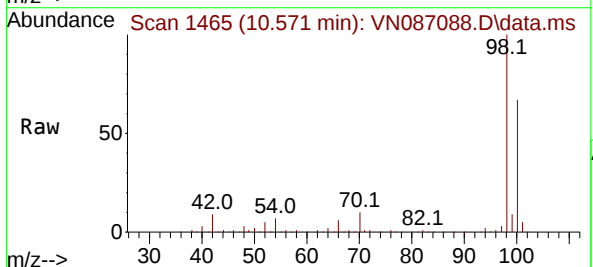
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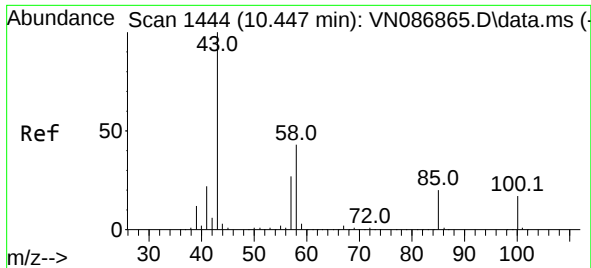
Tgt Ion:130 Resp: 9488
Ion Ratio Lower Upper
130 100
95 96.4 0.0 196.2



#50
Toluene-d8
Concen: 52.599 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 98 Resp: 619300
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0

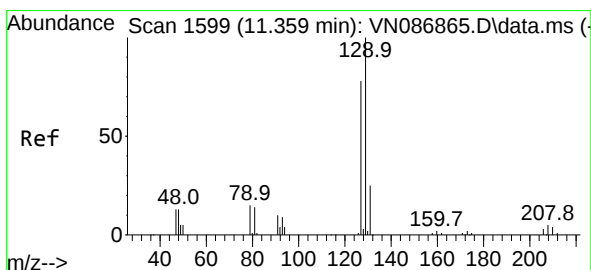
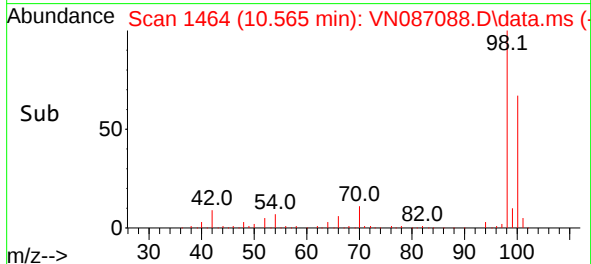
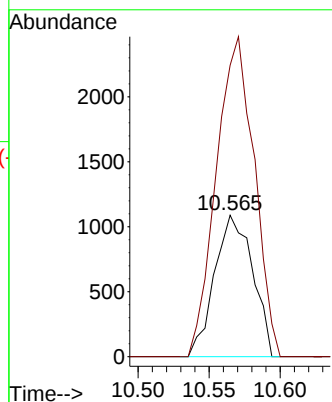
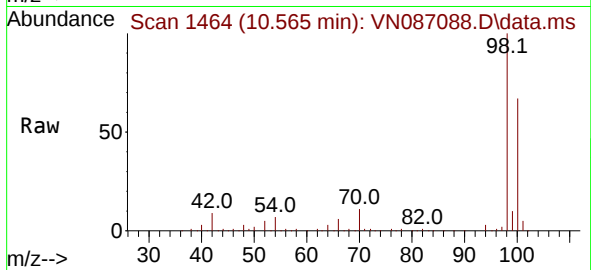




#51
4-Methyl-2-Pentanone
Concen: 0.372 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.117 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

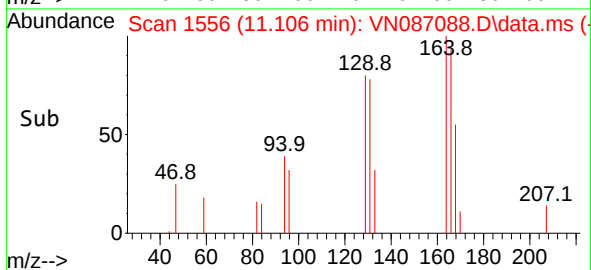
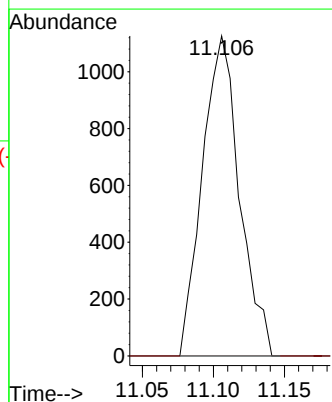
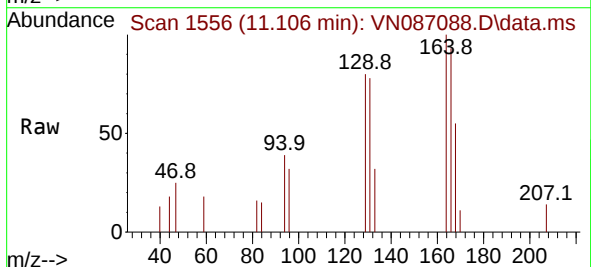
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

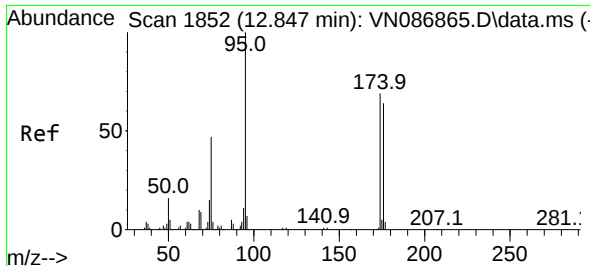
Tgt Ion: 43 Resp: 2029
Ion Ratio Lower Upper
43 100
58 226.1 34.2 51.4#



#60
Dibromochloromethane
Concen: 0.577 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 129 Resp: 2047
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

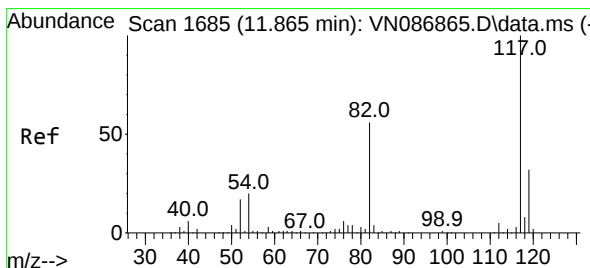
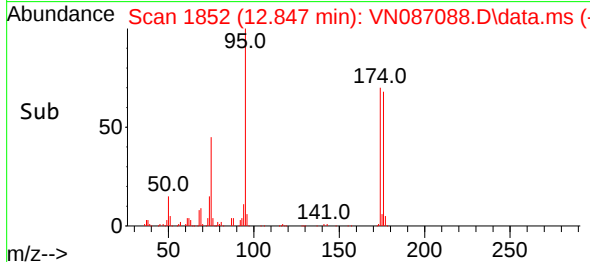
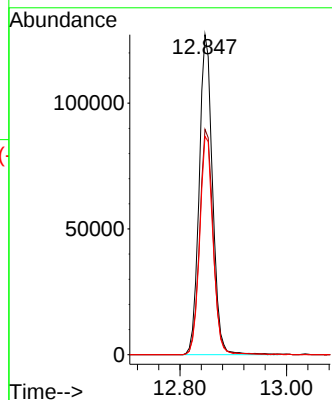
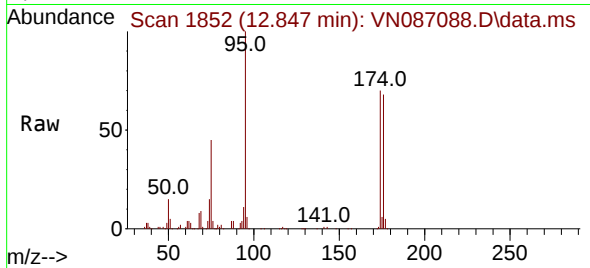




#62
4-Bromofluorobenzene
Concen: 50.552 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

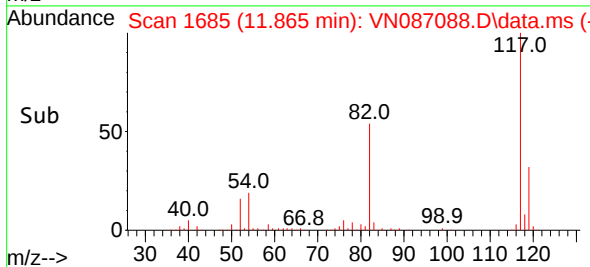
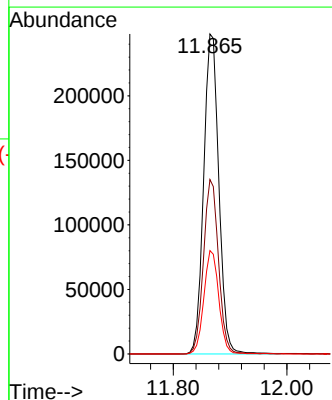
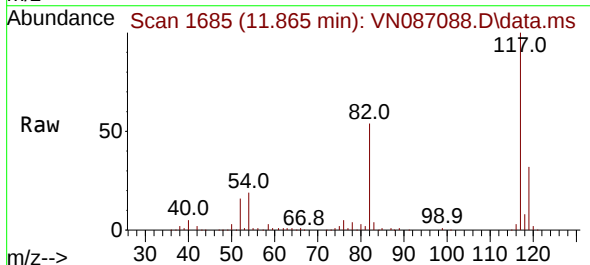
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

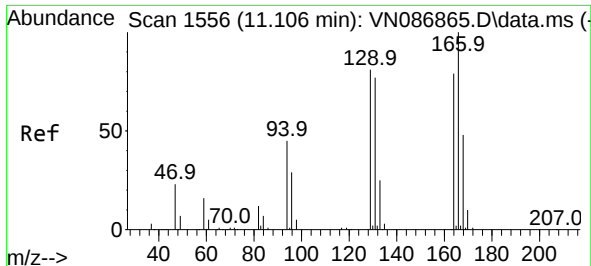
Tgt Ion: 95 Resp: 221136
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.8
176 68.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

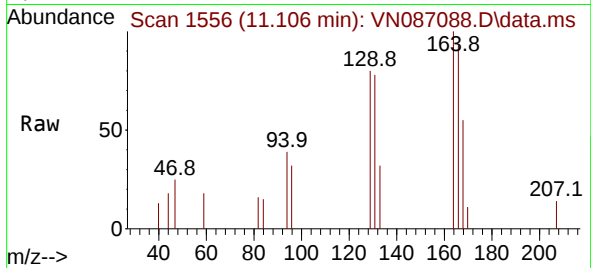
Tgt Ion: 117 Resp: 459032
Ion Ratio Lower Upper
117 100
82 54.5 44.6 67.0
119 32.3 25.5 38.3



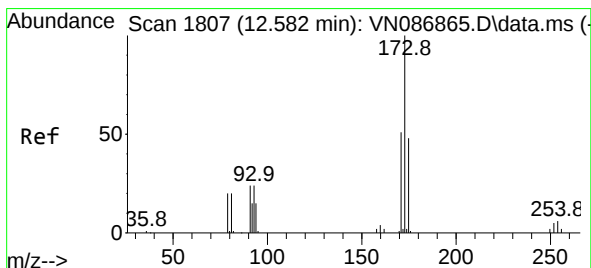
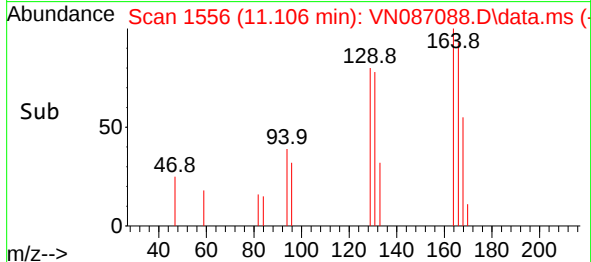
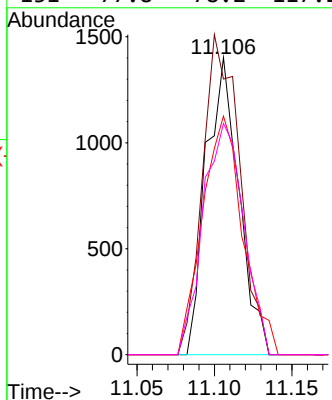


#64
Tetrachloroethene
Concen: 0.711 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

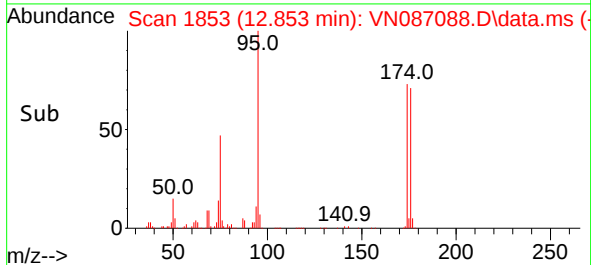
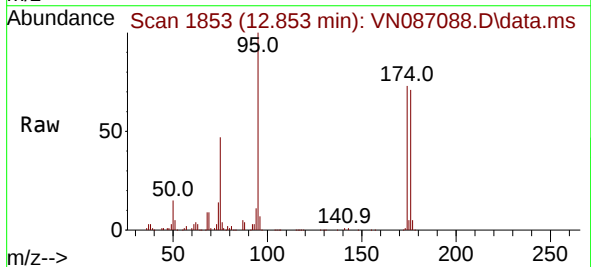
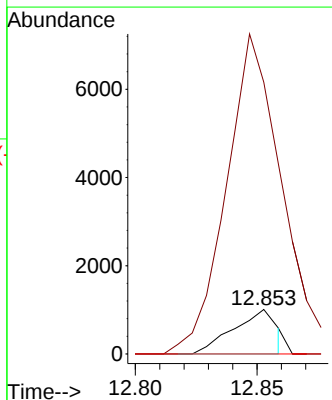


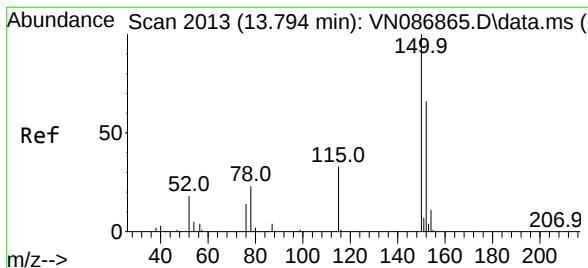
Tgt Ion:164 Resp: 2065
Ion Ratio Lower Upper
164 100
166 92.8 101.8 152.8#
129 80.3 83.0 124.4#
131 77.8 78.2 117.2#



#71
Bromoform
Concen: 0.518 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion:173 Resp: 1248
Ion Ratio Lower Upper
173 100
175 788.5 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN087088.D

Acq: 18 Jun 2025 16:08

Instrument :

MSVOA_N

ClientSampleId :

TT149S1-20250613

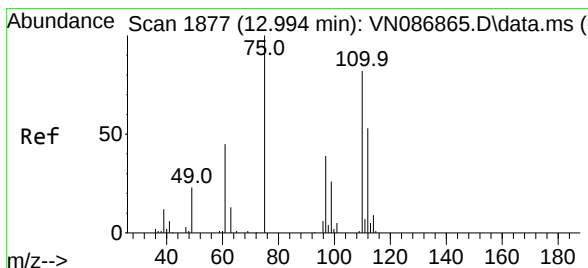
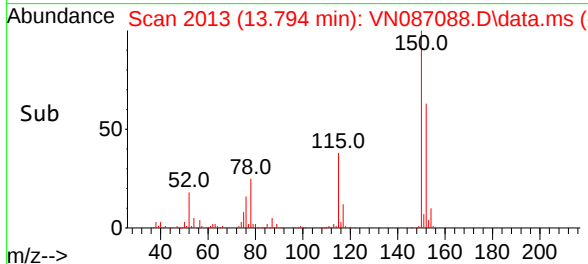
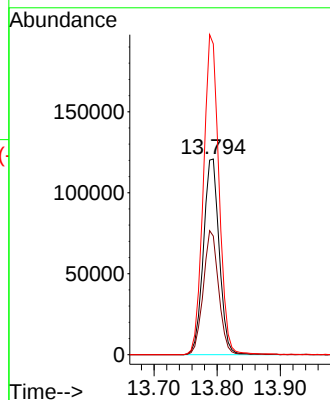
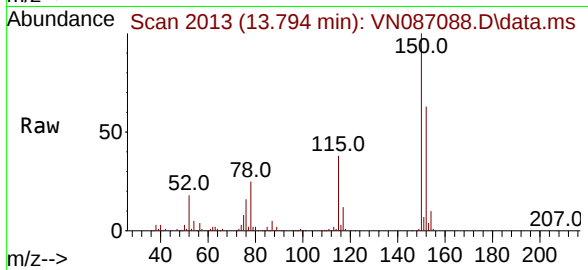
Tgt Ion:152 Resp: 210865

Ion Ratio Lower Upper

152 100

115 61.8 30.1 90.5

150 161.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.209 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087088.D

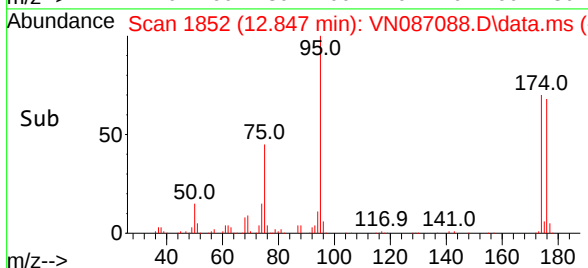
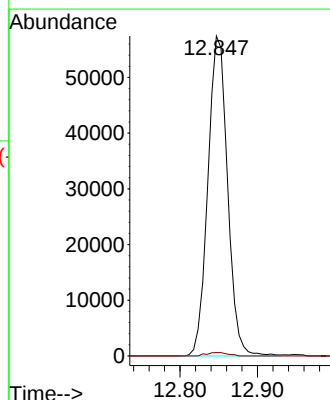
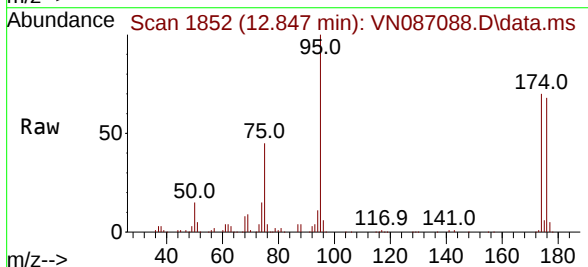
Acq: 18 Jun 2025 16:08

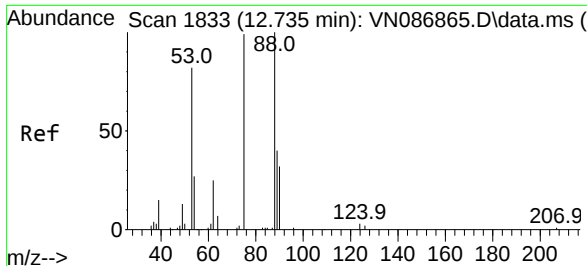
Tgt Ion: 75 Resp: 101294

Ion Ratio Lower Upper

75 100

77 1.2 79.3 237.9#

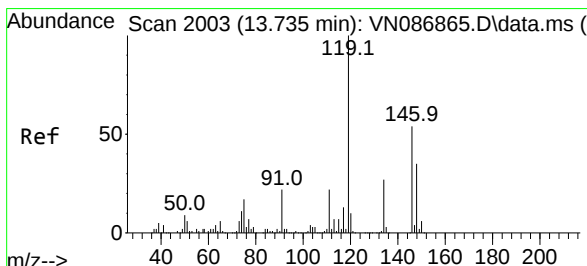
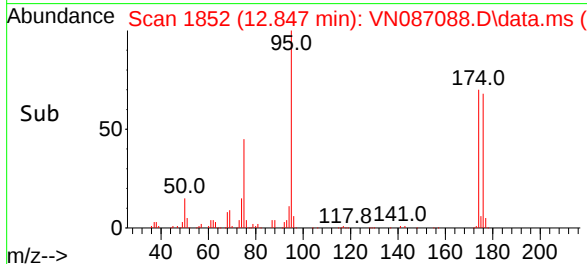
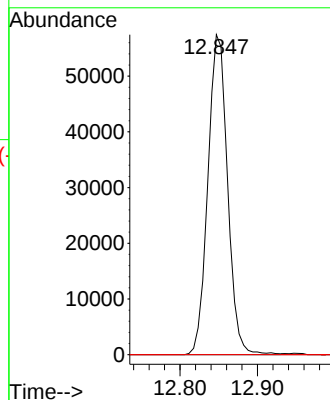
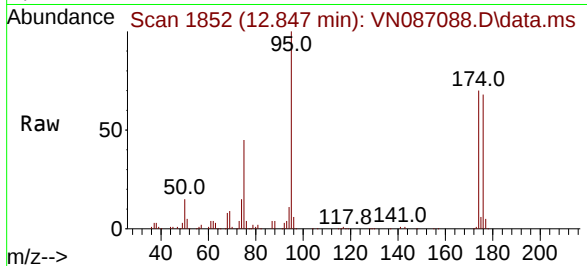




#81
trans-1,4-Dichloro-2-butene
Concen: 46.520 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

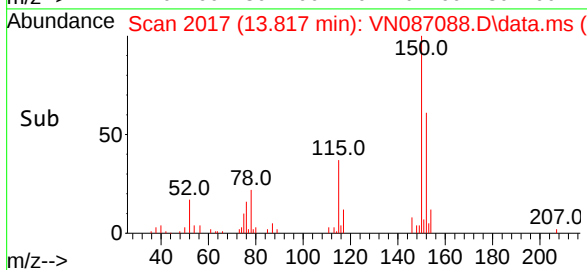
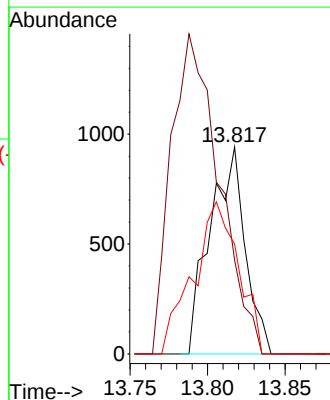
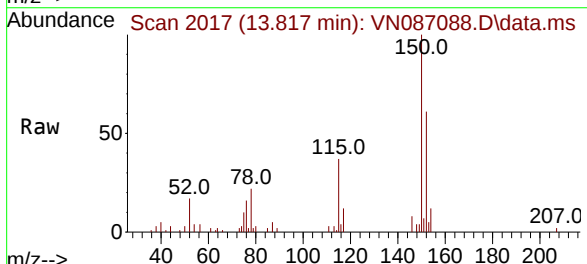
Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

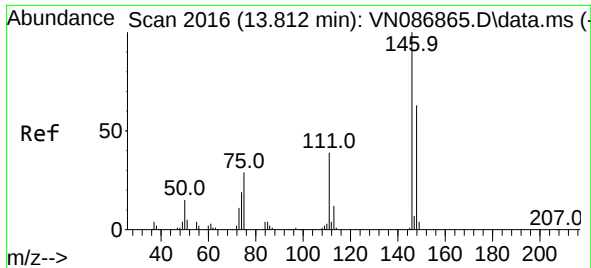
Tgt Ion: 75 Resp: 101294
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#87
1,3-Dichlorobenzene
Concen: 0.215 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. 0.082 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

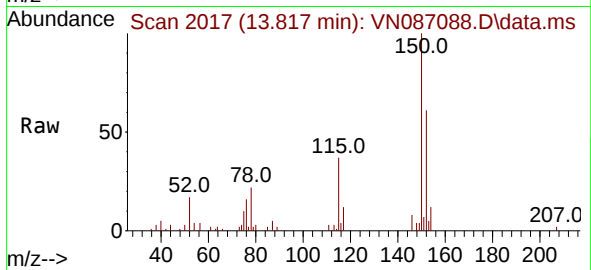
Tgt Ion:146 Resp: 1489
Ion Ratio Lower Upper
146 100
111 0.0 20.9 62.8#
148 94.4 32.0 96.2





#88
 1,4-Dichlorobenzene
 Concen: 0.211 ug/l
 RT: 13.817 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN087088.D
 Acq: 18 Jun 2025 16:08

Instrument :
 MSVOA_N
 ClientSampleId :
 TT149S1-20250613



Tgt Ion:146 Resp: 1489
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.9 59.7#
 148 94.4 31.8 95.4

