

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087032.D
 Acq On : 16 Jun 2025 15:33
 Operator : JC\MD
 Sample : Q2299-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP02-20250610

Quant Time: Jun 17 07:24:32 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)

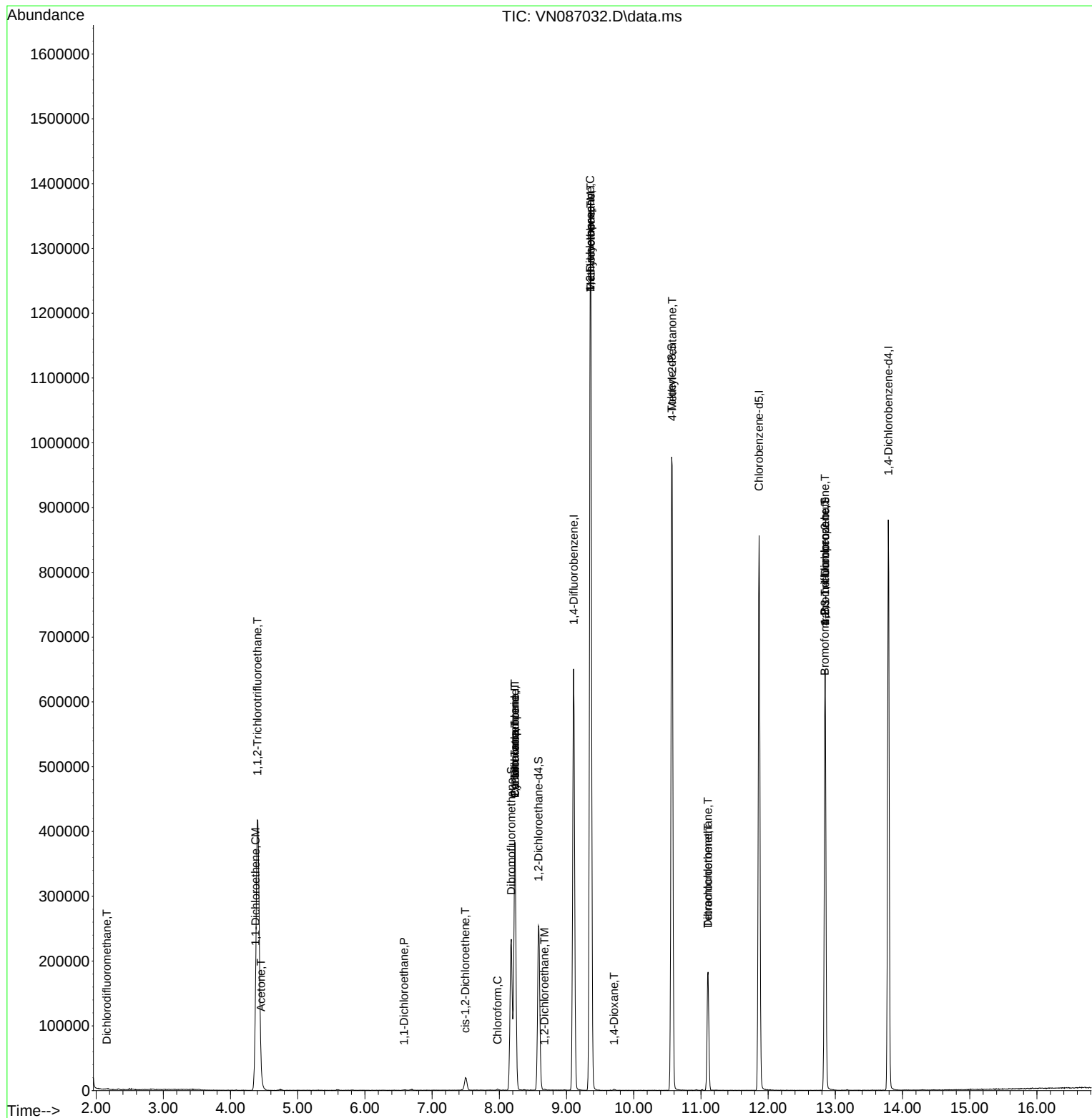
Internal Standards						
1) Pentafluorobenzene	8.230	168	301197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	600709	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	535463	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	254156	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	209733	52.008	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.020%			
35) Dibromofluoromethane	8.177	113	181357	50.944	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.880%			
50) Toluene-d8	10.565	98	735582	52.195	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.400%			
62) 4-Bromofluorobenzene	12.847	95	259513	49.564	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.160	85	611	0.203	ug/l #	42
9) 1,1,2-Trichlorotrifluo...	4.401	101	330310	100.590	ug/l	99
12) 1,1-Dichloroethene	4.371	96	4504	1.344	ug/l #	91
16) Acetone	4.453	43	783	0.366	ug/l #	83
24) 1,1-Dichloroethane	6.583	63	1663	0.247	ug/l #	81
27) cis-1,2-Dichloroethene	7.494	96	13987	3.136	ug/l	88
30) Chloroform	7.971	83	1895	0.281	ug/l	87
31) Cyclohexane	8.230	56	5262	0.805	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	22705	4.280	ug/l #	48
38) Carbon Tetrachloride	8.230	117	28751	5.521	ug/l #	17
39) Methylcyclohexane	9.359	83	5941	0.817	ug/l #	1
42) 1,2-Dichloroethane	8.671	62	1153	0.219	ug/l #	72
44) Trichloroethene	9.359	130	544217	132.311	ug/l	100
45) 1,2-Dichloropropane	9.353	63	1122	0.266	ug/l #	1
49) 1,4-Dioxane	9.706	88	1549	17.068	ug/l #	93
51) 4-Methyl-2-Pentanone	10.571	43	2363	0.362	ug/l #	1
60) Dibromochloromethane	11.106	129	45944	10.811	ug/l #	11
64) Tetrachloroethene	11.106	164	45315	13.372	ug/l	98
71) Bromoform	12.841	173	1066	0.379	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	121224	20.066	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	121224	46.190	ug/l #	16

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087032.D
Acq On : 16 Jun 2025 15:33
Operator : JC\MD
Sample : Q2299-14
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

Quant Time: Jun 17 07:24:32 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

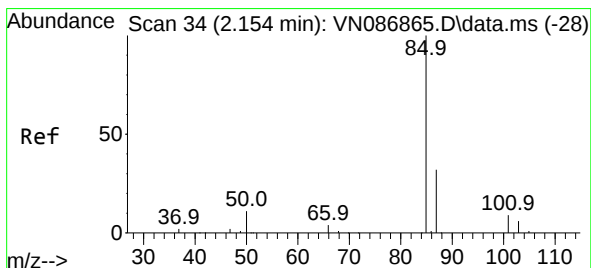
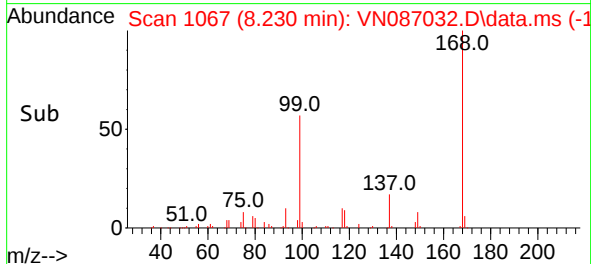
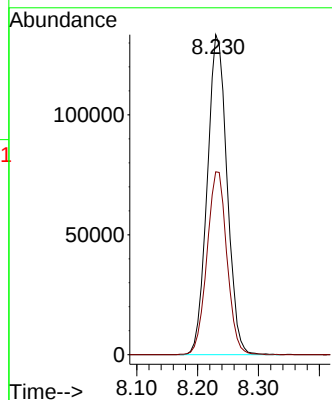
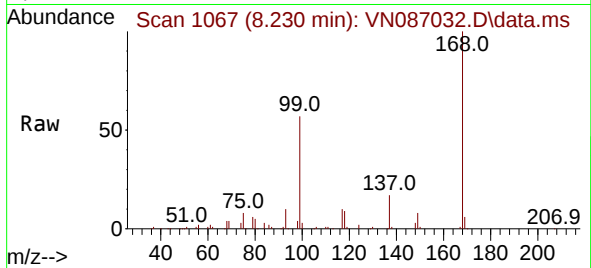




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

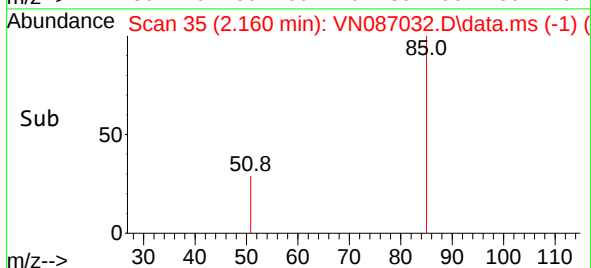
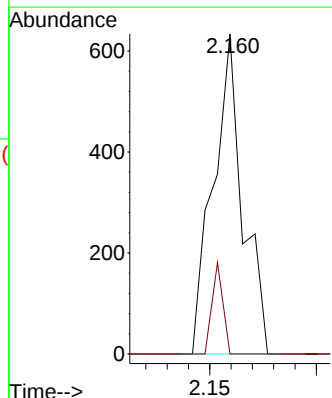
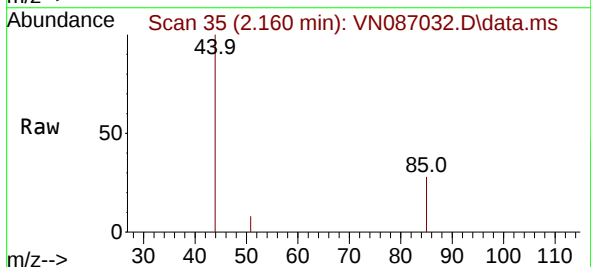
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

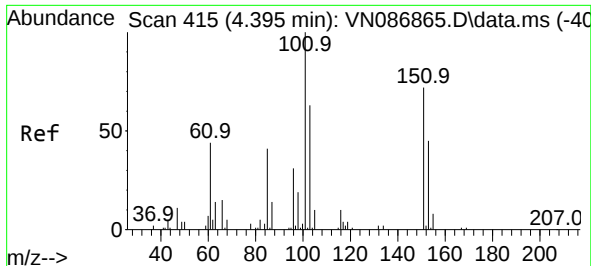
Tgt Ion:168 Resp: 301197
Ion Ratio Lower Upper
168 100
99 57.1 49.1 73.7



#2
Dichlorodifluoromethane
Concen: 0.203 ug/l
RT: 2.160 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 85 Resp: 611
Ion Ratio Lower Upper
85 100
87 0.0 16.2 48.6#

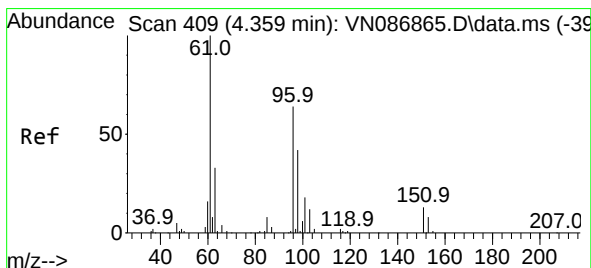
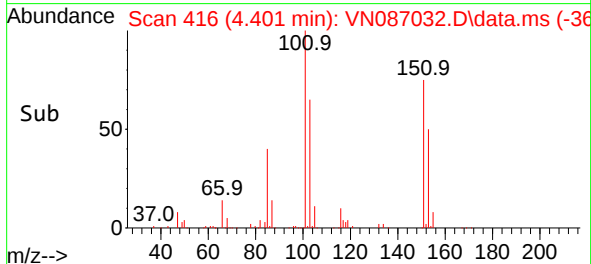
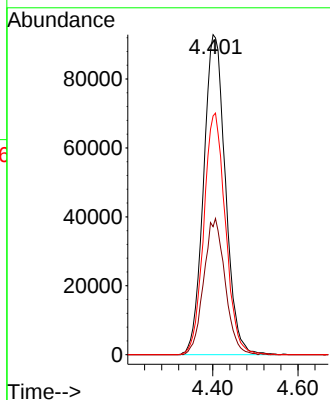
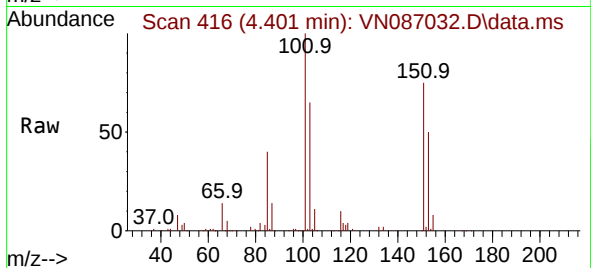




#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.590 ug/l
RT: 4.401 min Scan# 415
Delta R.T. 0.006 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

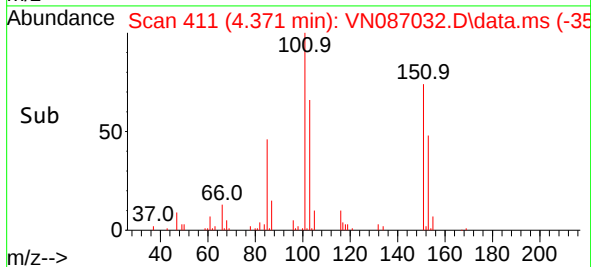
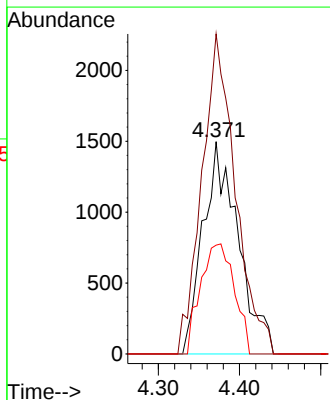
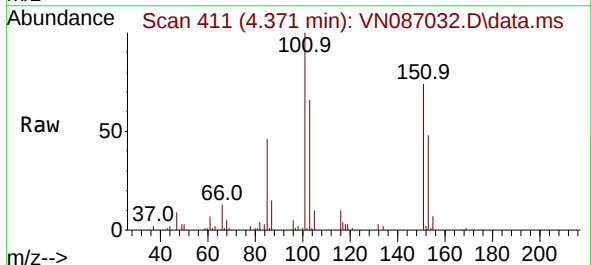
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

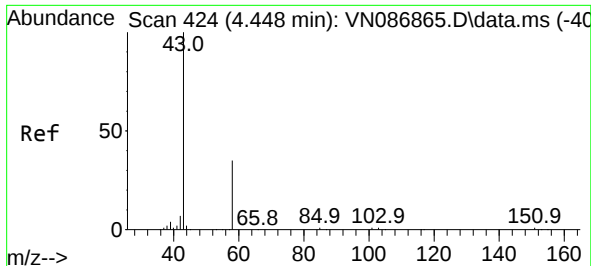
Tgt Ion:101 Resp: 330310
Ion Ratio Lower Upper
101 100
85 41.7 33.8 50.8
151 74.9 58.7 88.1



#12
1,1-Dichloroethene
Concen: 1.344 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 96 Resp: 4504
Ion Ratio Lower Upper
96 100
61 150.7 125.8 188.6
98 51.2 52.5 78.7#





#16

Acetone

Concen: 0.366 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

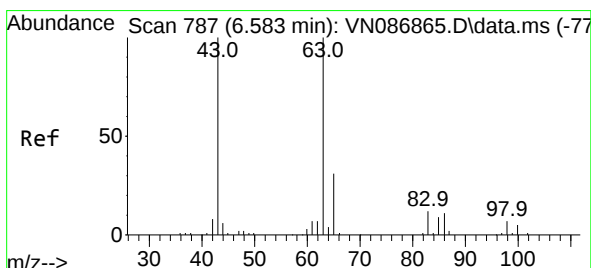
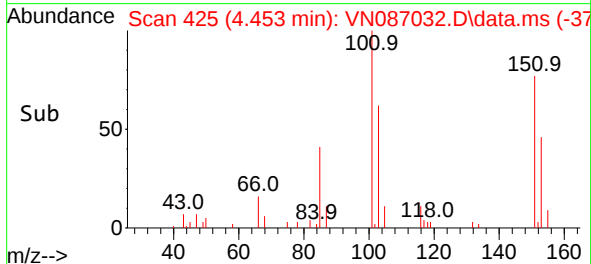
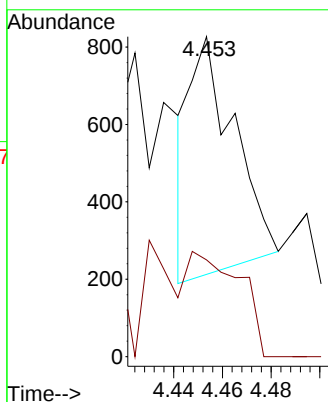
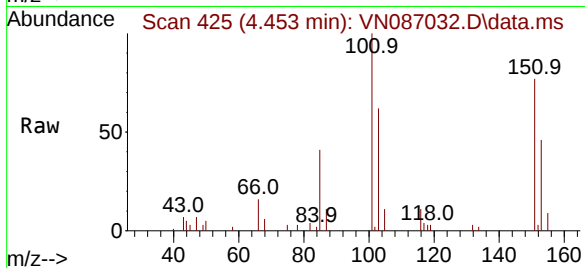
DUP02-20250610

Tgt Ion: 43 Resp: 783

Ion Ratio Lower Upper

43 100

58 45.0 28.0 42.0#



#24

1,1-Dichloroethane

Concen: 0.247 ug/l

RT: 6.583 min Scan# 787

Delta R.T. 0.000 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

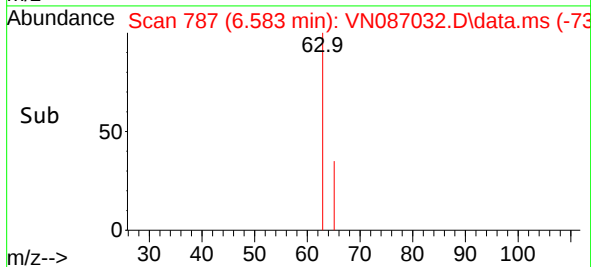
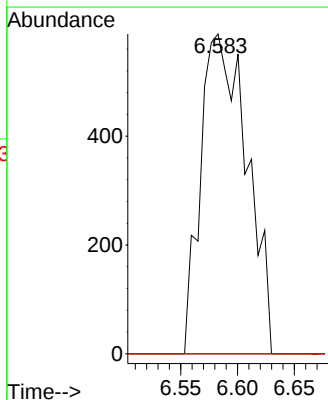
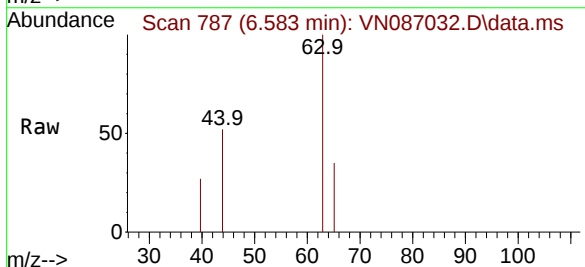
Tgt Ion: 63 Resp: 1663

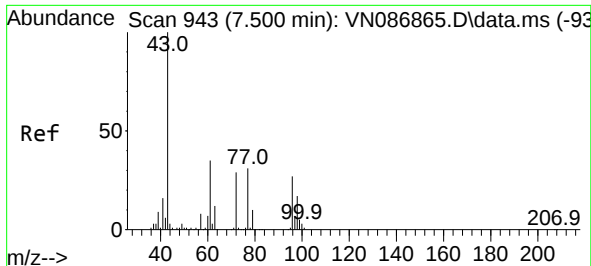
Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.8#

100 0.0 2.6 7.8#



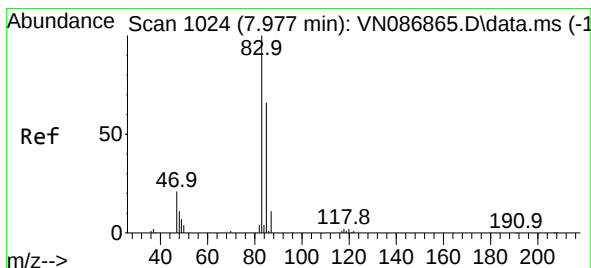
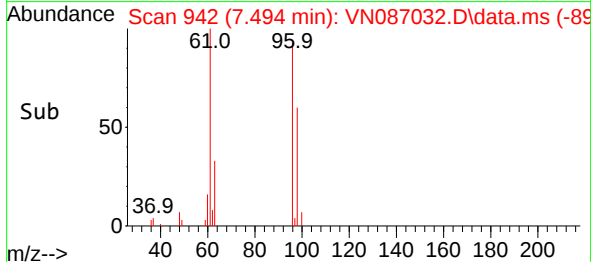
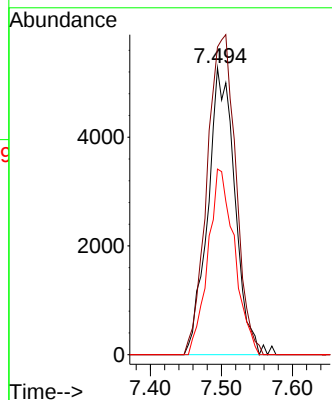
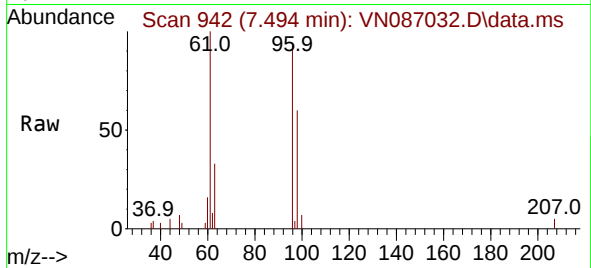


#27
 cis-1,2-Dichloroethene
 Concen: 3.136 ug/l
 RT: 7.494 min Scan# 94
 Delta R.T. -0.006 min
 Lab File: VN087032.D
 Acq: 16 Jun 2025 15:33

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP02-20250610

Tgt Ion: 96 Resp: 13987

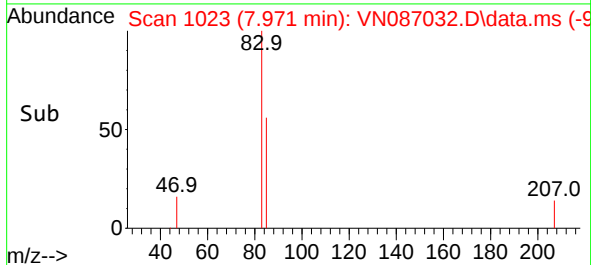
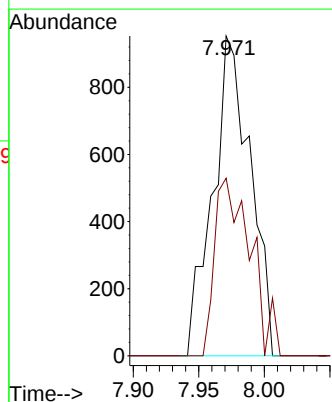
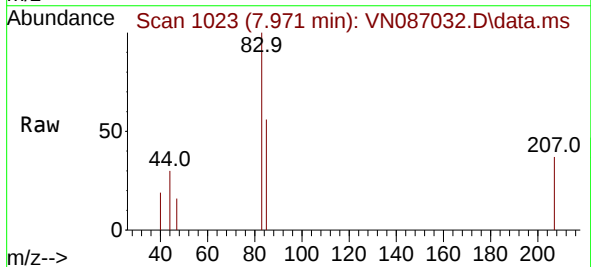
Ion	Ratio	Lower	Upper
96	100		
61	118.4	0.0	278.0
98	63.3	0.0	128.2

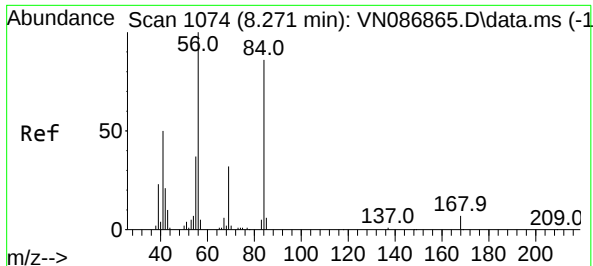


#30
 Chloroform
 Concen: 0.281 ug/l
 RT: 7.971 min Scan# 1023
 Delta R.T. -0.006 min
 Lab File: VN087032.D
 Acq: 16 Jun 2025 15:33

Tgt Ion: 83 Resp: 1895

Ion	Ratio	Lower	Upper
83	100		
85	55.5	52.9	79.3

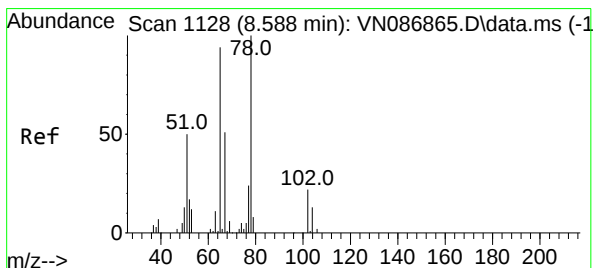
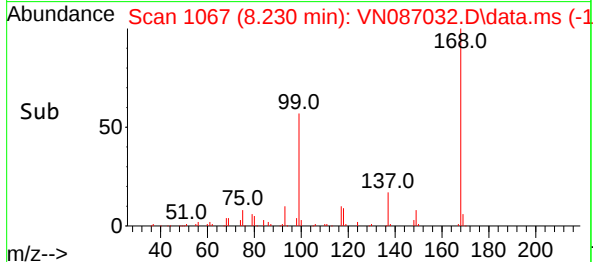
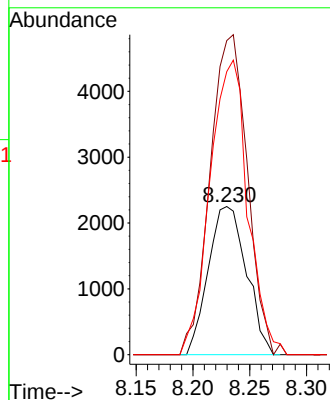
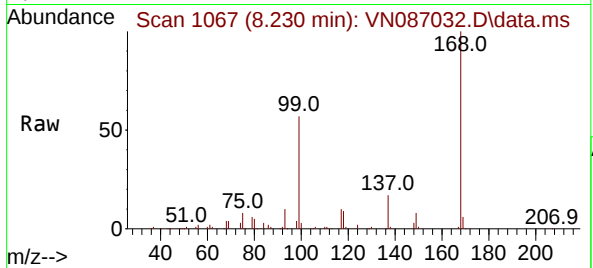




#31
Cyclohexane
Concen: 0.805 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

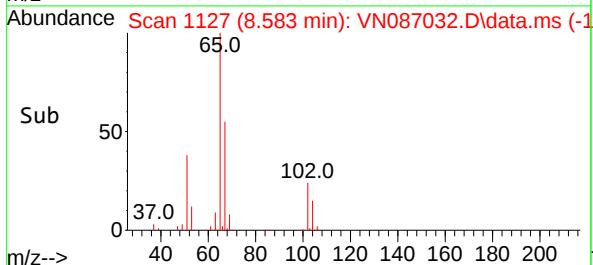
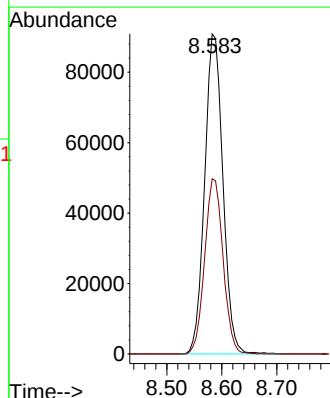
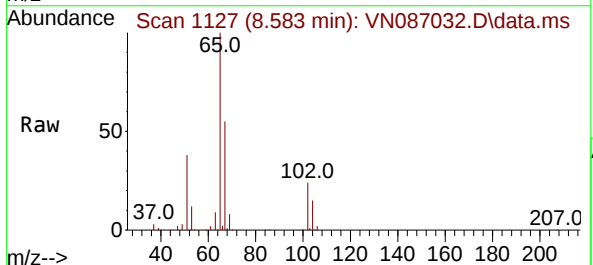
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

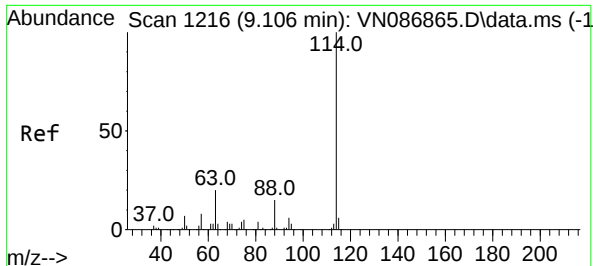
Tgt Ion: 56 Resp: 5262
Ion Ratio Lower Upper
56 100
69 212.0 25.4 38.0#
84 191.1 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 52.008 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 65 Resp: 209733
Ion Ratio Lower Upper
65 100
67 55.2 0.0 105.6

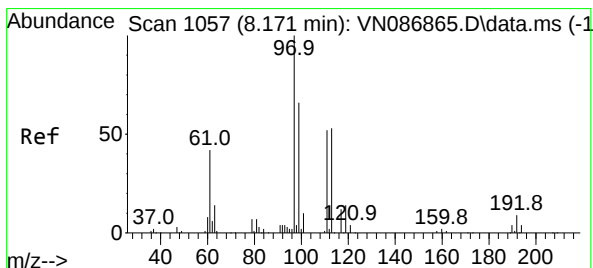
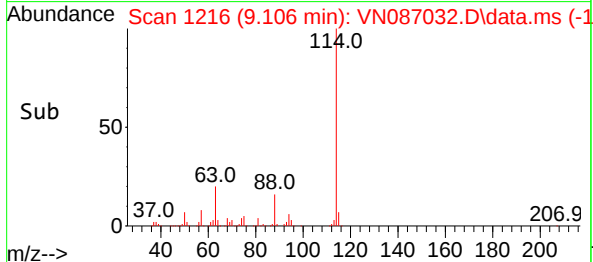
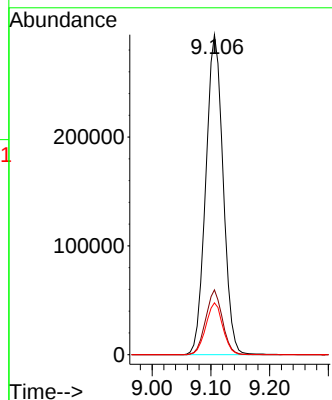
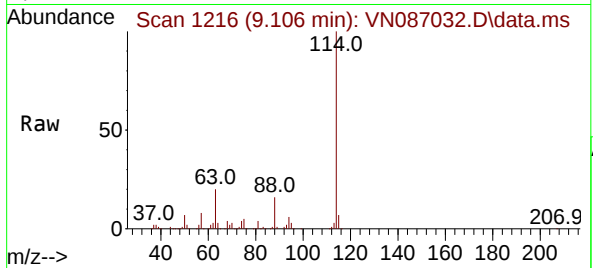




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

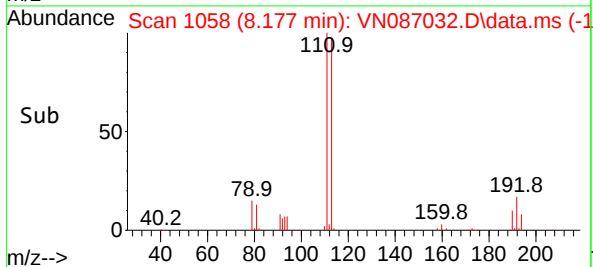
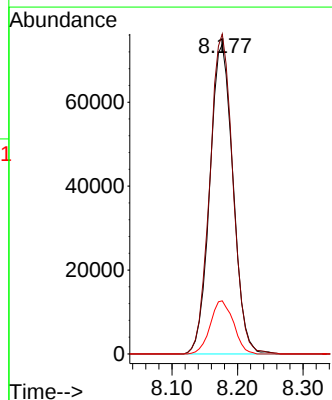
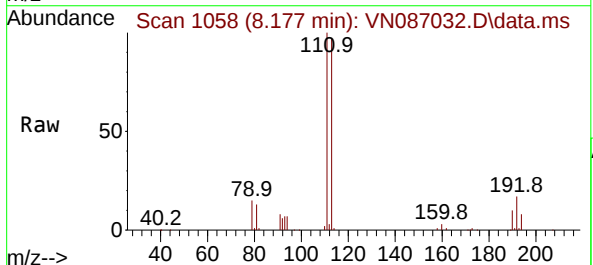
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

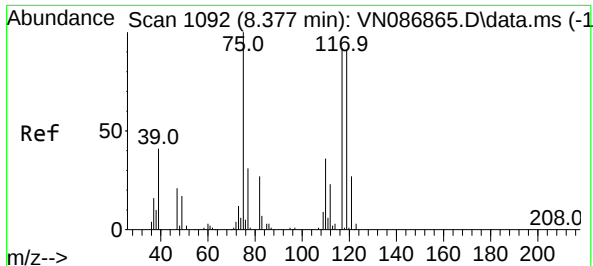
Tgt Ion:114 Resp: 600709
Ion Ratio Lower Upper
114 100
63 20.3 0.0 39.6
88 16.2 0.0 30.2



#35
Dibromofluoromethane
Concen: 50.944 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion:113 Resp: 181357
Ion Ratio Lower Upper
113 100
111 102.7 84.2 126.2
192 17.2 14.2 21.4

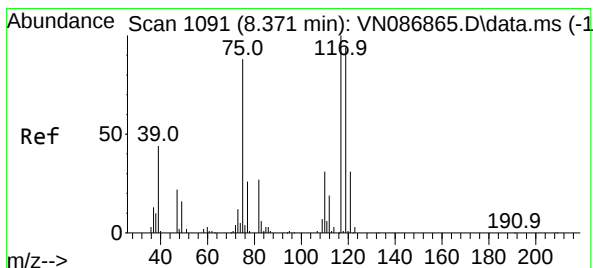
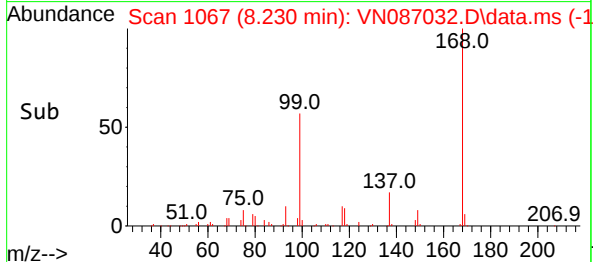
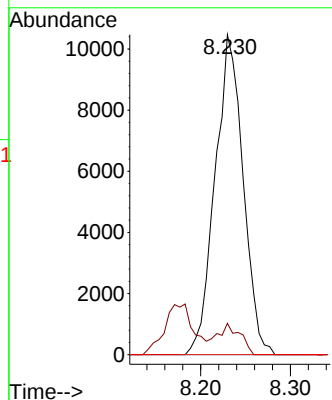
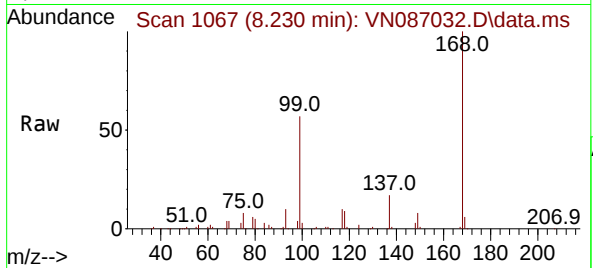




#36
1,1-Dichloropropene
Concen: 4.280 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

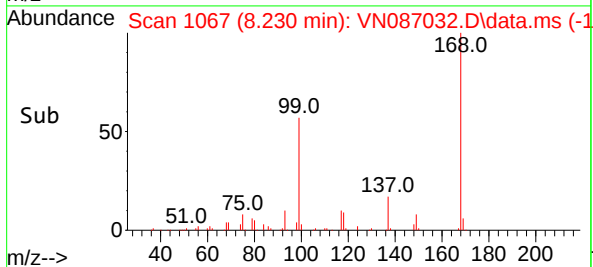
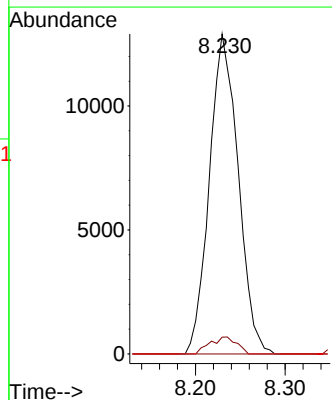
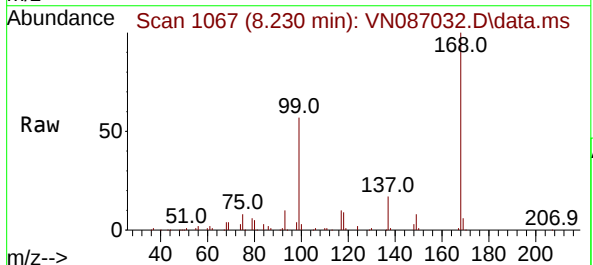
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

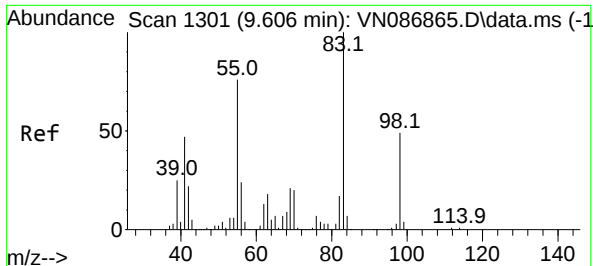
Tgt Ion: 75 Resp: 22705
Ion Ratio Lower Upper
75 100
110 8.1 17.6 52.9#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.521 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 117 Resp: 28751
Ion Ratio Lower Upper
117 100
119 5.3 75.0 112.6#
121 0.0 24.9 37.3#





#39

Methylcyclohexane

Concen: 0.817 ug/l

RT: 9.359 min Scan# 11259

Delta R.T. -0.247 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20250610

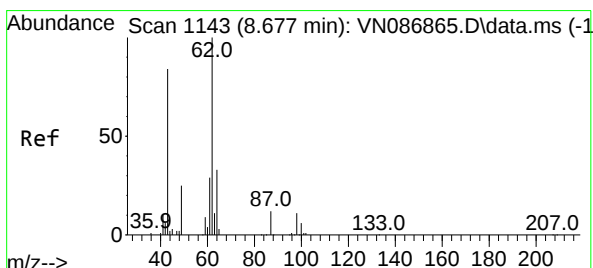
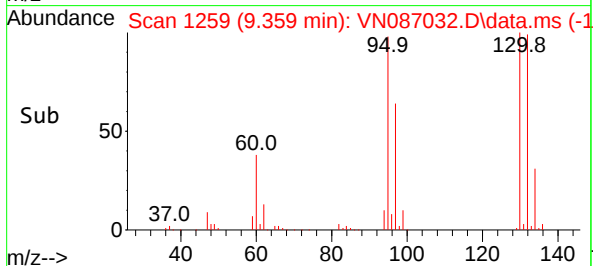
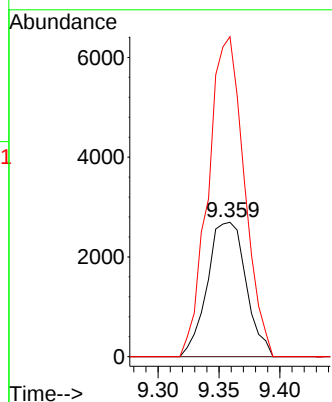
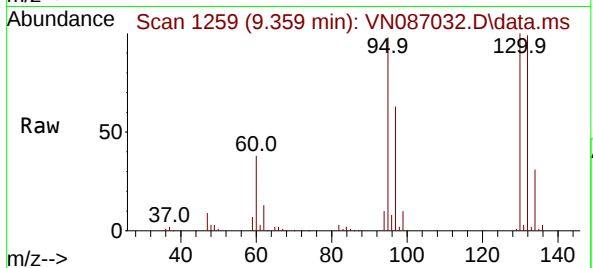
Tgt Ion: 83 Resp: 5941

Ion Ratio Lower Upper

83 100

55 0.0 61.0 91.6#

98 238.2 38.9 58.3#



#42

1,2-Dichloroethane

Concen: 0.219 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN087032.D

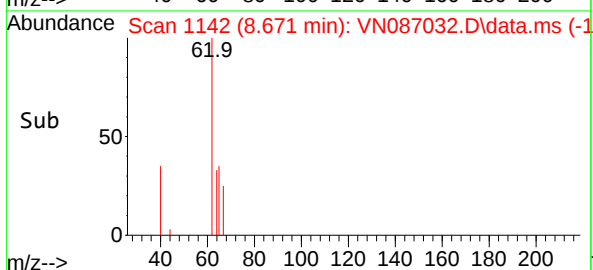
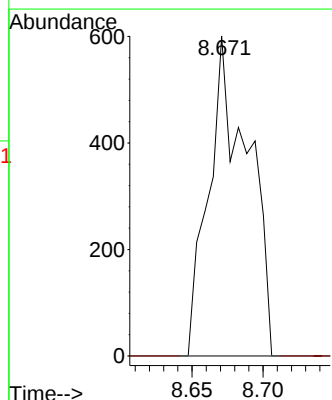
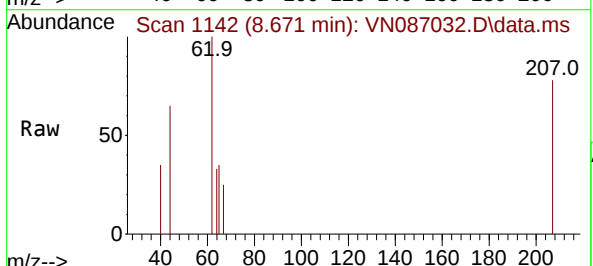
Acq: 16 Jun 2025 15:33

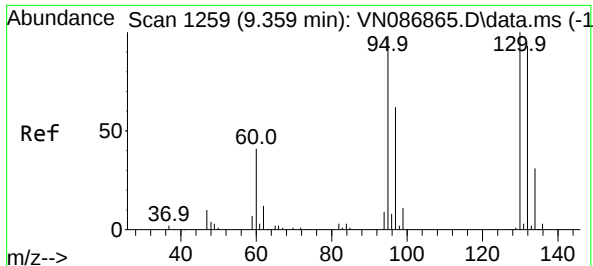
Tgt Ion: 62 Resp: 1153

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.2

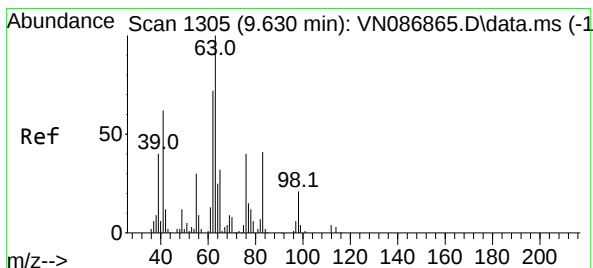
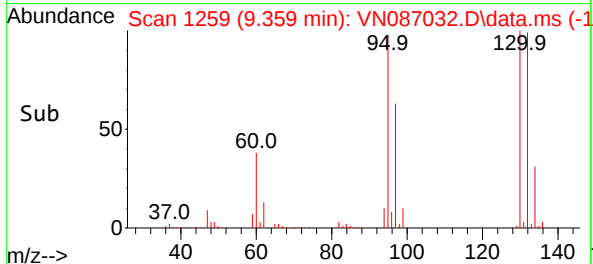
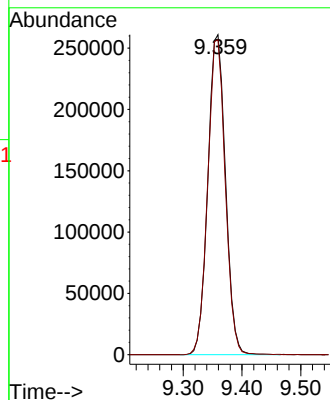
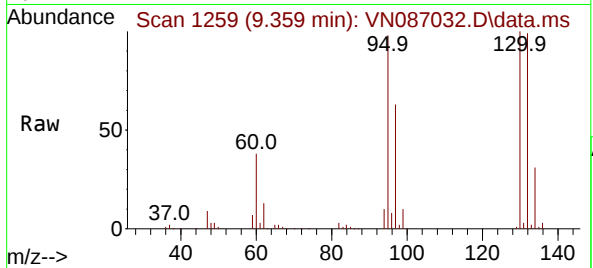




#44
Trichloroethene
Concen: 132.311 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

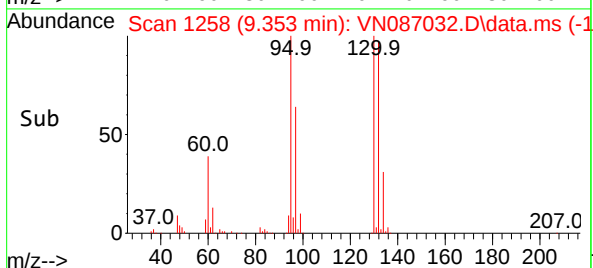
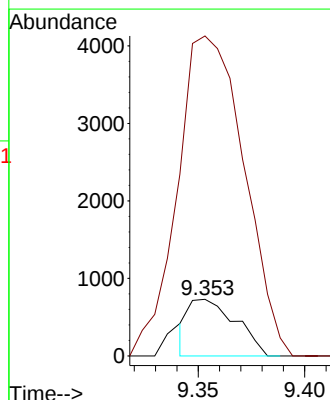
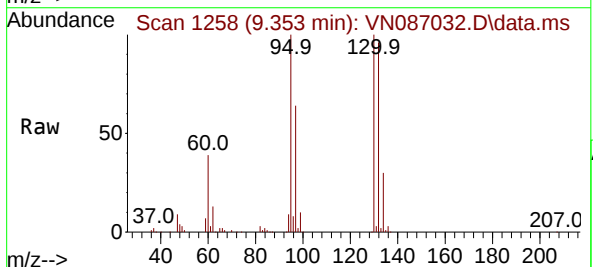
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

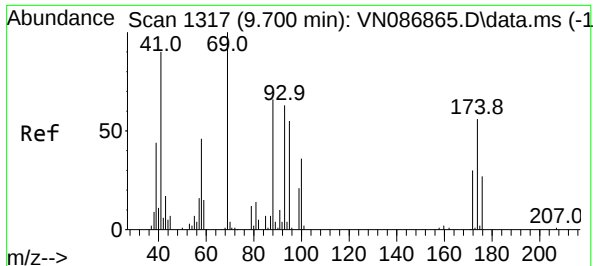
Tgt Ion:130 Resp: 544217
Ion Ratio Lower Upper
130 100
95 98.4 0.0 196.2



#45
1,2-Dichloropropane
Concen: 0.266 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.276 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 63 Resp: 1122
Ion Ratio Lower Upper
63 100
65 533.6 25.5 38.3#





#49

1,4-Dioxane

Concen: 17.068 ug/l

RT: 9.706 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087032.D

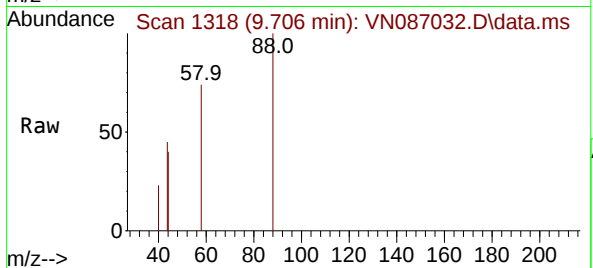
Acq: 16 Jun 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20250610



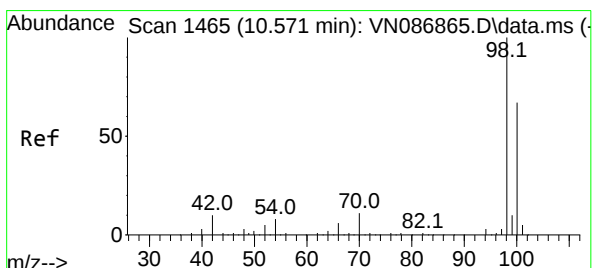
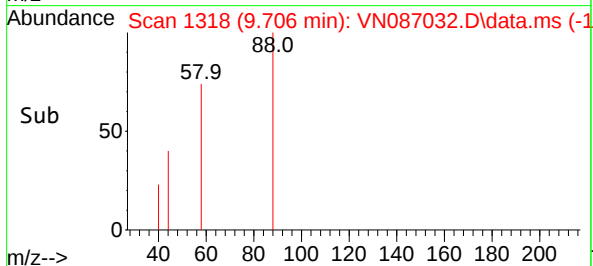
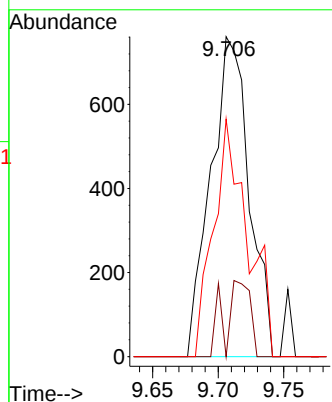
Tgt Ion: 88 Resp: 1549

Ion Ratio Lower Upper

88 100

43 15.6 0.0 0.0#

58 65.9 57.7 86.5



#50

Toluene-d8

Concen: 52.195 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN087032.D

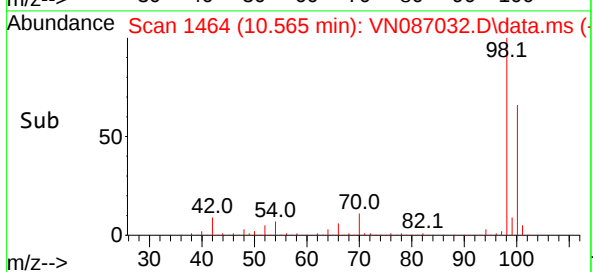
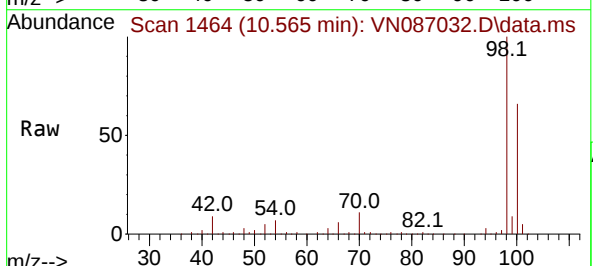
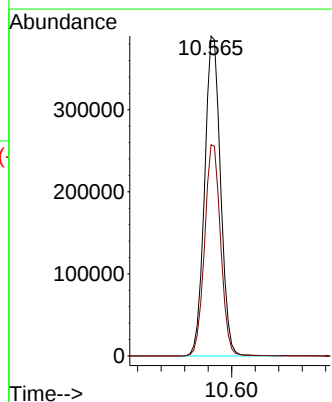
Acq: 16 Jun 2025 15:33

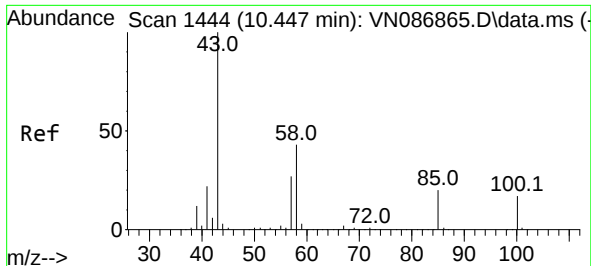
Tgt Ion: 98 Resp: 735582

Ion Ratio Lower Upper

98 100

100 66.2 53.4 80.0

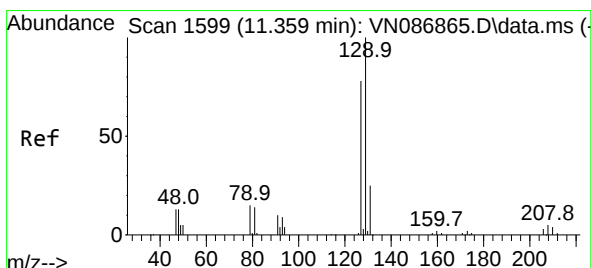
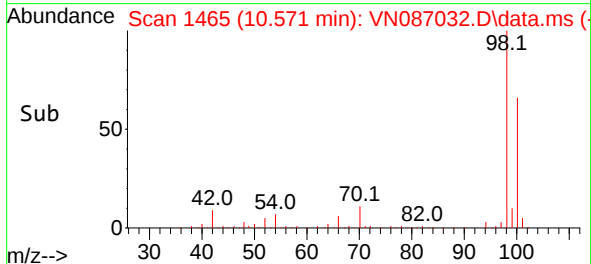
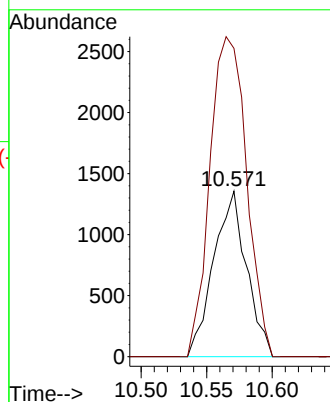
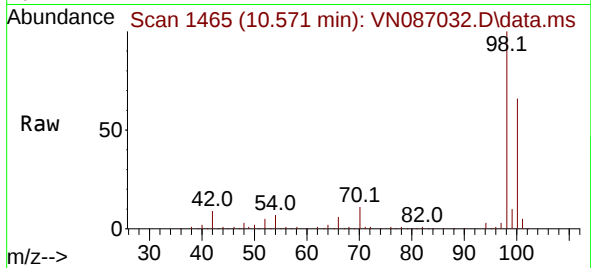




#51
4-Methyl-2-Pentanone
Concen: 0.362 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.124 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

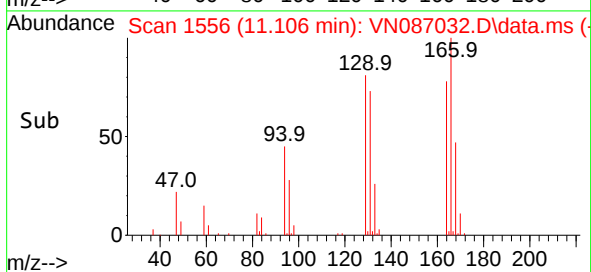
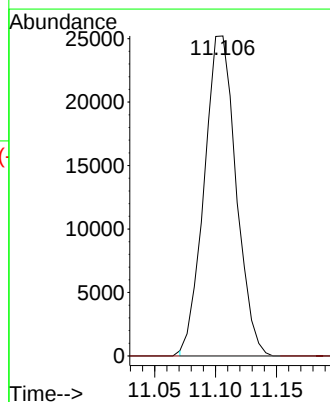
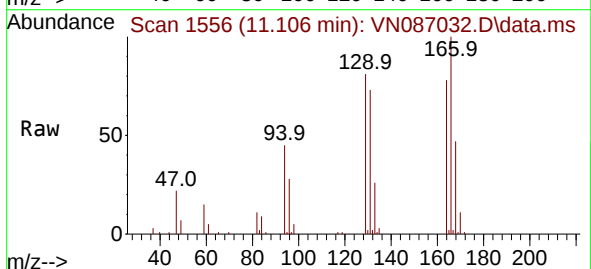
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20250610

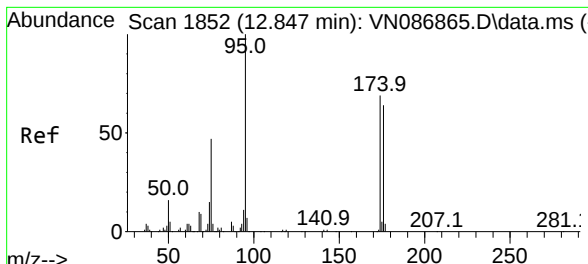
Tgt Ion: 43 Resp: 2363
Ion Ratio Lower Upper
43 100
58 216.3 34.2 51.4#



#60
Dibromochloromethane
Concen: 10.811 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN087032.D
Acq: 16 Jun 2025 15:33

Tgt Ion: 129 Resp: 45944
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

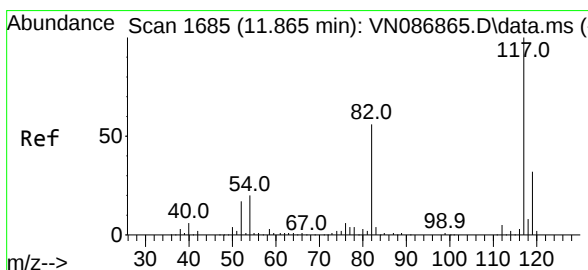
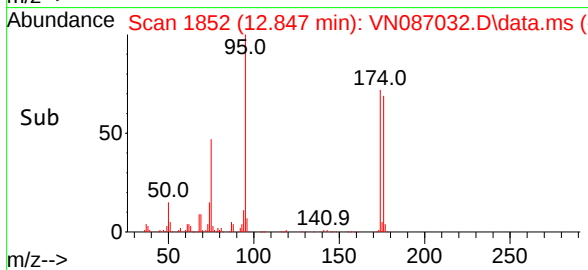
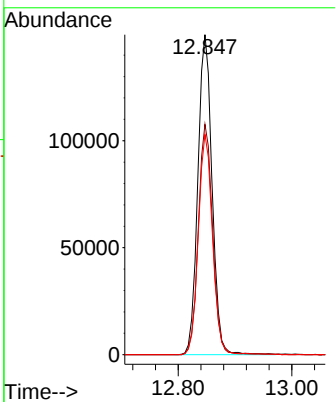
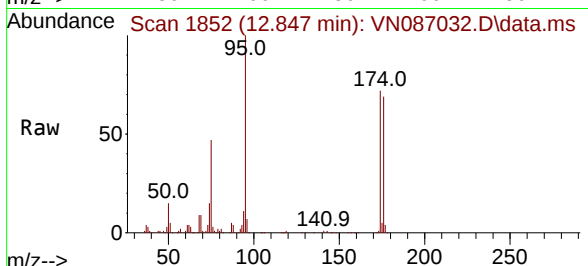




#62
 4-Bromofluorobenzene
 Concen: 49.564 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: VN087032.D
 Acq: 16 Jun 2025 15:33

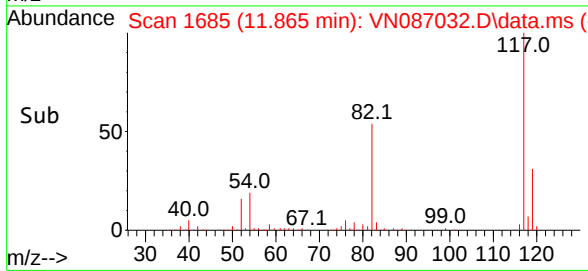
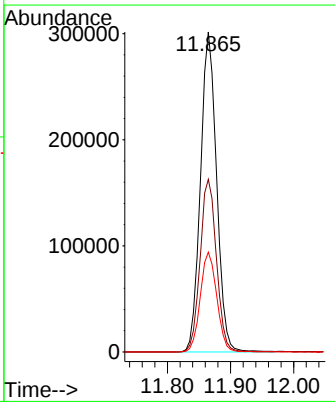
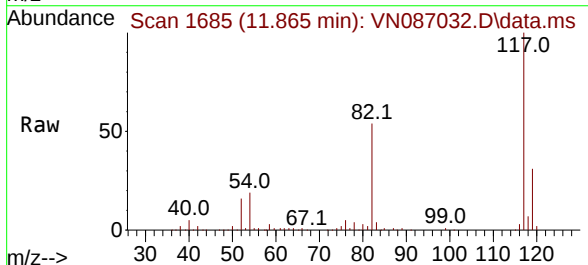
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP02-20250610

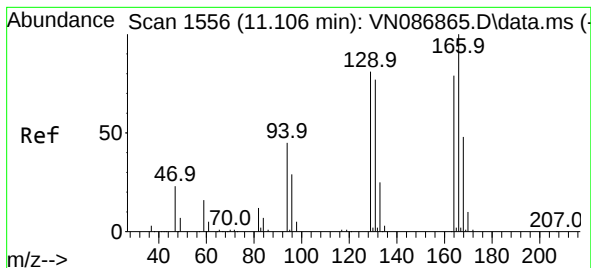
Tgt Ion:	95	Resp:	259513
Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	141.8
176	68.3	0.0	132.6



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN087032.D
 Acq: 16 Jun 2025 15:33

Tgt Ion:	117	Resp:	535463
Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.6	67.0
119	31.2	25.5	38.3





#64

Tetrachloroethene

Concen: 13.372 ug/l

RT: 11.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20250610

Tgt Ion:164 Resp: 45315

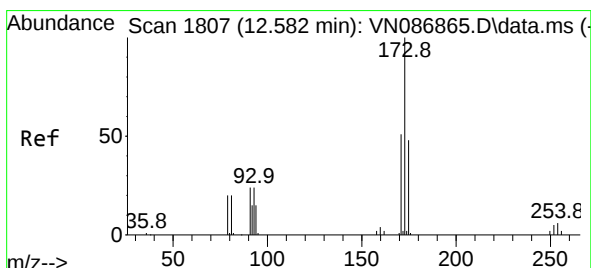
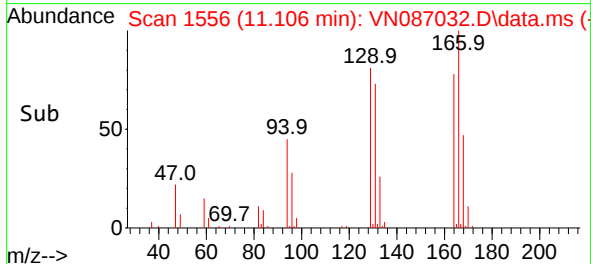
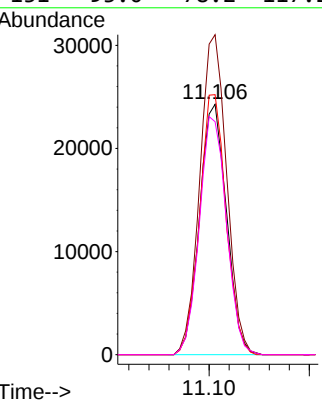
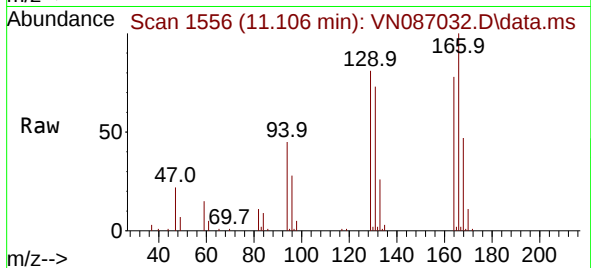
Ion Ratio Lower Upper

164 100

166 127.8 101.8 152.8

129 103.8 83.0 124.4

131 93.0 78.2 117.2



#71

Bromoform

Concen: 0.379 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.259 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

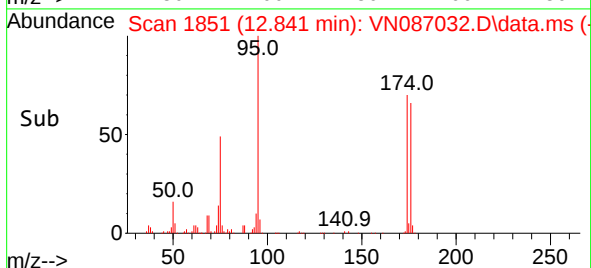
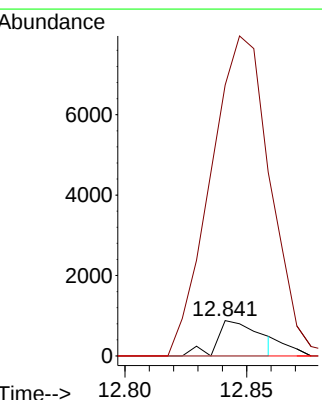
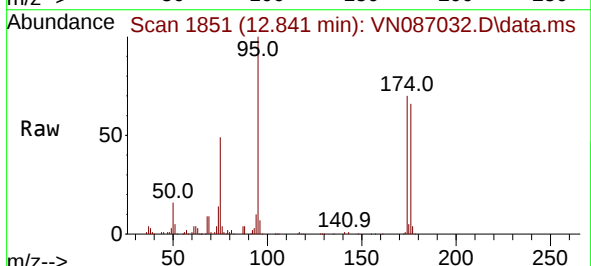
Tgt Ion:173 Resp: 1066

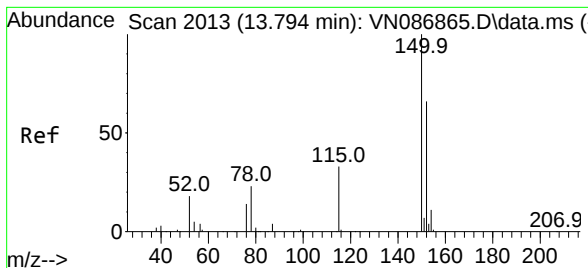
Ion Ratio Lower Upper

173 100

175 1151.8 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# 20

Delta R.T. -0.006 min

Lab File: VN087032.D

Acq: 16 Jun 2025 15:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20250610

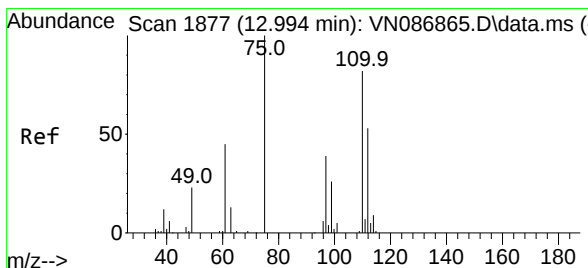
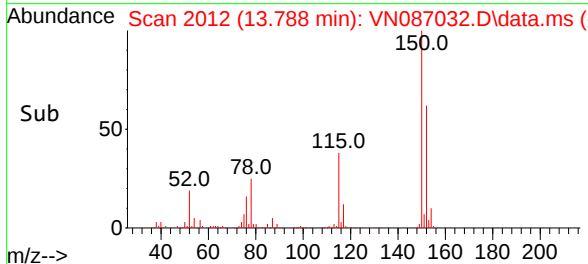
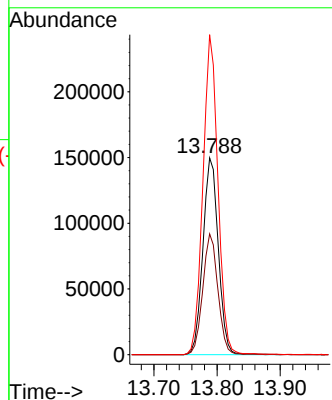
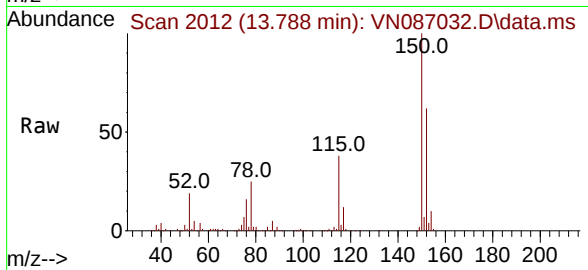
Tgt Ion:152 Resp: 254156

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.5

150 158.4 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 20.066 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN087032.D

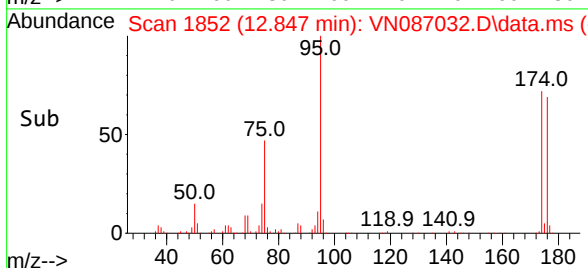
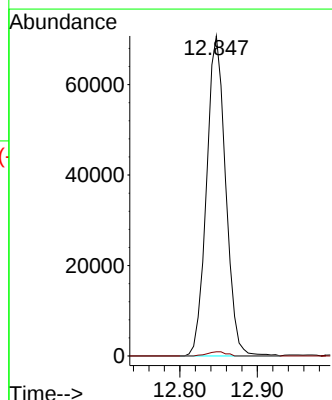
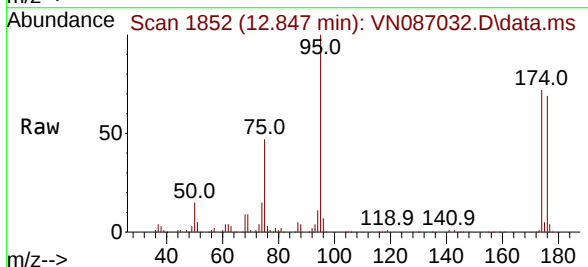
Acq: 16 Jun 2025 15:33

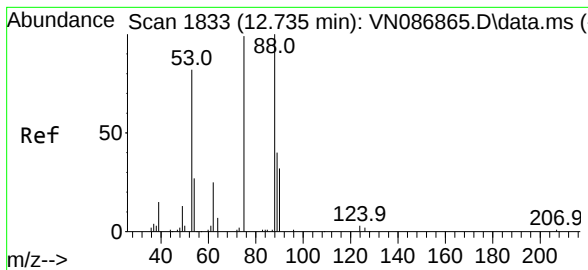
Tgt Ion: 75 Resp: 121224

Ion Ratio Lower Upper

75 100

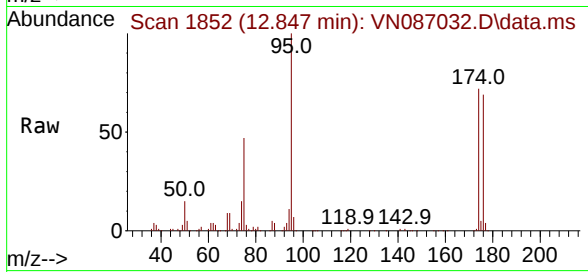
77 1.3 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 46.190 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087032.D
 Acq: 16 Jun 2025 15:33

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP02-20250610



Tgt Ion: 75 Resp: 121224
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.0 36.7 55.1#

