

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087031.D
 Acq On : 16 Jun 2025 15:12
 Operator : JC\MD
 Sample : Q2299-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20250610

Quant Time: Jun 17 07:24:06 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

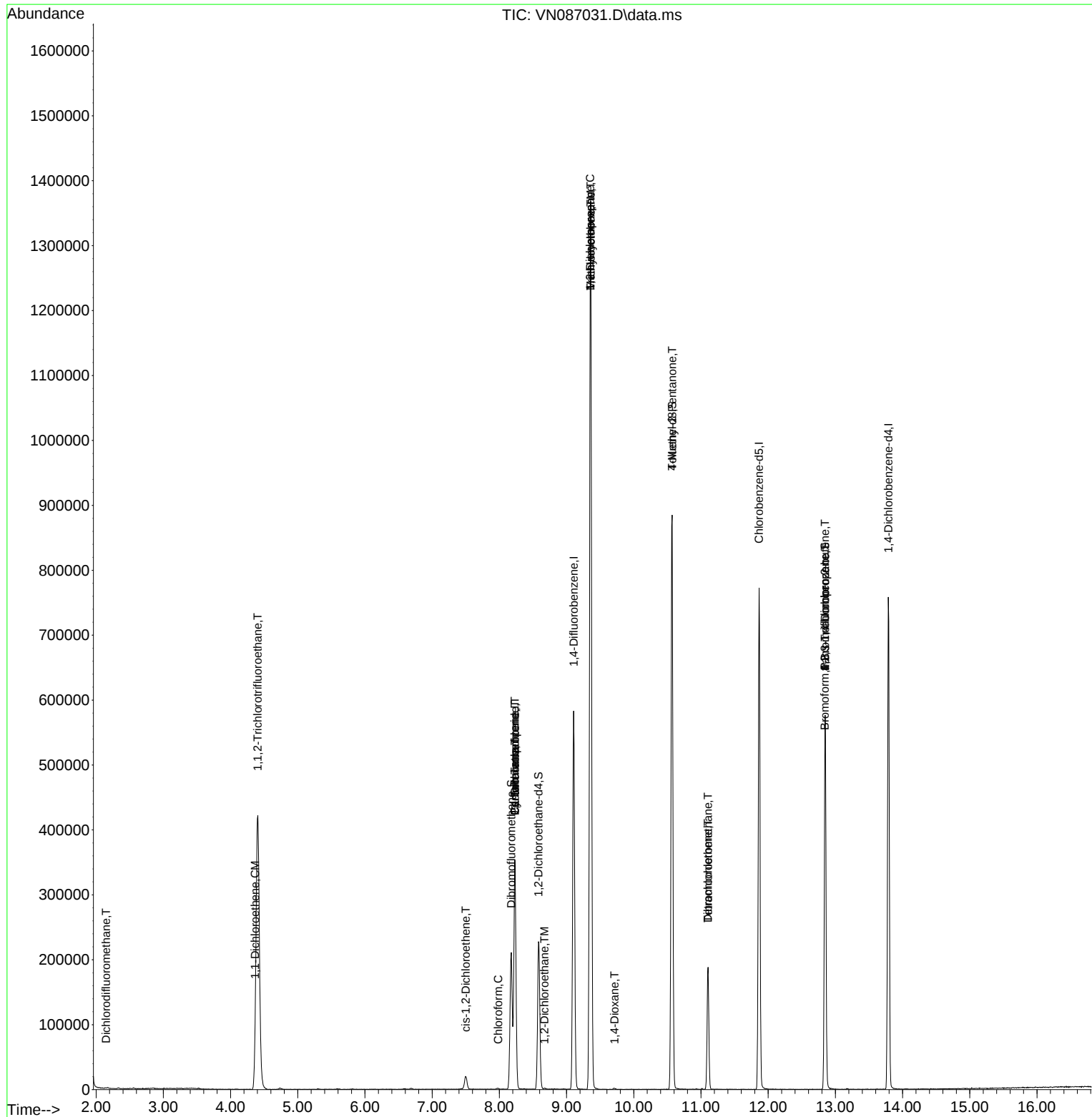
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

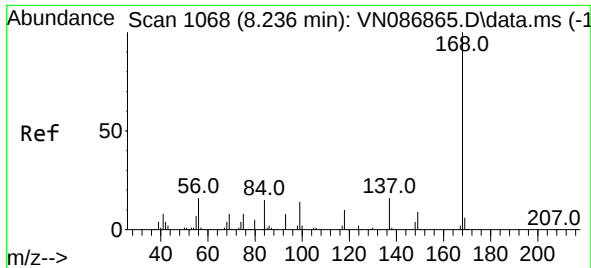
Internal Standards						
1) Pentafluorobenzene	8.229	168	274702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	538528	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	482289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	227199	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	188834	51.342	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.680%			
35) Dibromofluoromethane	8.177	113	162191	50.821	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.640%			
50) Toluene-d8	10.570	98	658800	52.145	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.280%			
62) 4-Bromofluorobenzene	12.847	95	236759	50.439	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	621	0.227	ug/l #	42
9) 1,1,2-Trichlorotrifluo...	4.406	101	338452	113.011	ug/l	99
12) 1,1-Dichloroethene	4.365	96	4276	1.399	ug/l #	78
27) cis-1,2-Dichloroethene	7.500	96	13711	3.370	ug/l	88
30) Chloroform	7.982	83	1599	0.260	ug/l #	73
31) Cyclohexane	8.229	56	4970	0.833	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	20467	4.304	ug/l #	49
38) Carbon Tetrachloride	8.229	117	26415	5.658	ug/l #	19
39) Methylcyclohexane	9.359	83	6233	0.957	ug/l #	1
42) 1,2-Dichloroethane	8.671	62	1094	0.232	ug/l #	72
44) Trichloroethene	9.359	130	545458	147.925	ug/l	99
45) 1,2-Dichloropropane	9.353	63	1403	0.371	ug/l #	1
49) 1,4-Dioxane	9.712	88	1527	18.769	ug/l #	99
51) 4-Methyl-2-Pentanone	10.570	43	1987	0.340	ug/l #	1
60) Dibromochloromethane	11.106	129	45952	12.061	ug/l #	11
64) Tetrachloroethene	11.106	164	46608	15.270	ug/l	97
71) Bromoform	12.841	173	1232	0.486	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	108322	20.057	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	108322	46.171	ug/l #	16

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

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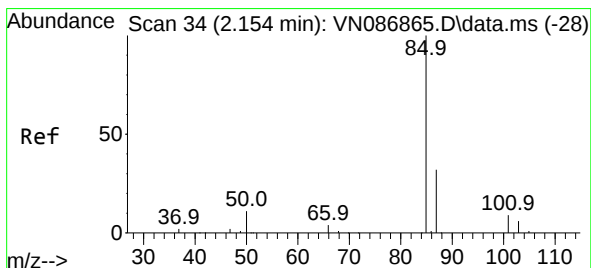
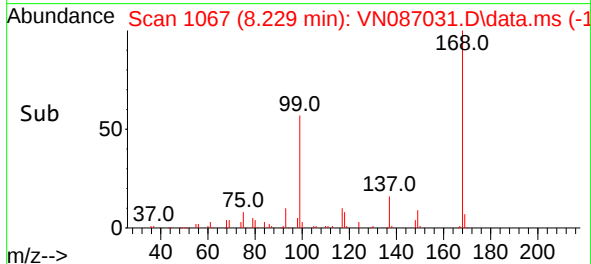
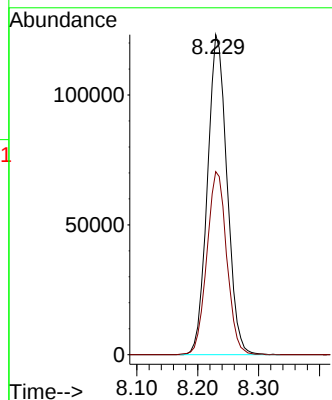
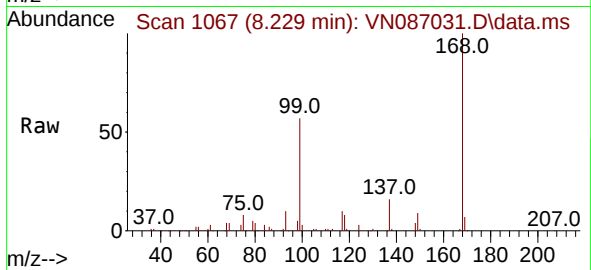




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.007 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

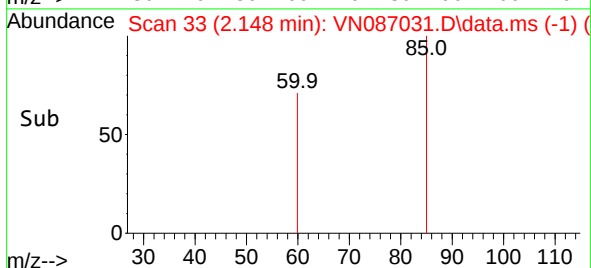
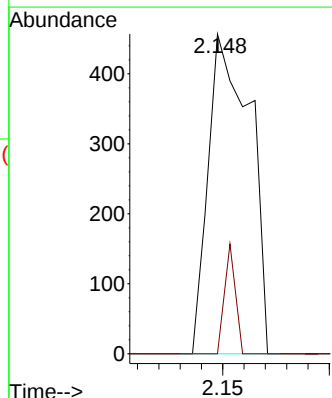
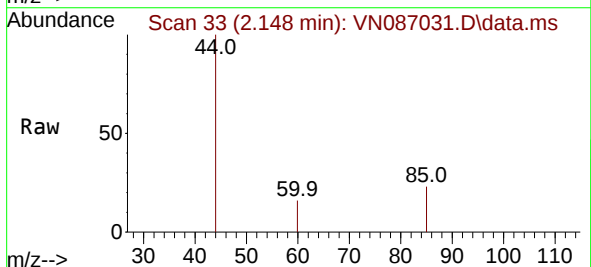
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610

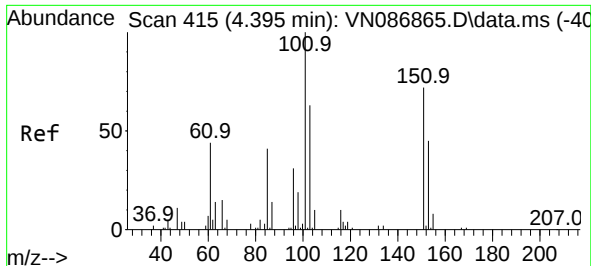
Tgt Ion:168 Resp: 274702
Ion Ratio Lower Upper
168 100
99 57.2 49.1 73.7



#2
Dichlorodifluoromethane
Concen: 0.227 ug/l
RT: 2.148 min Scan# 33
Delta R.T. -0.006 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 85 Resp: 621
Ion Ratio Lower Upper
85 100
87 0.0 16.2 48.6#

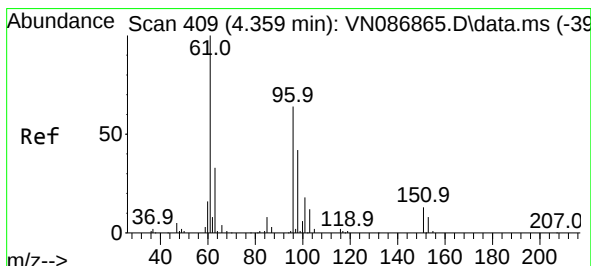
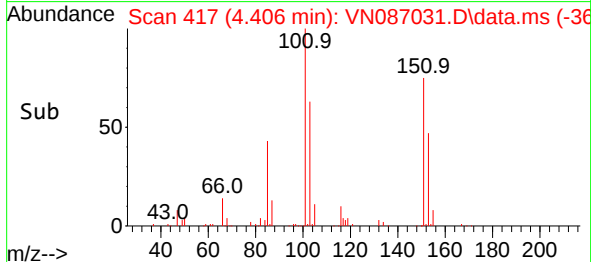
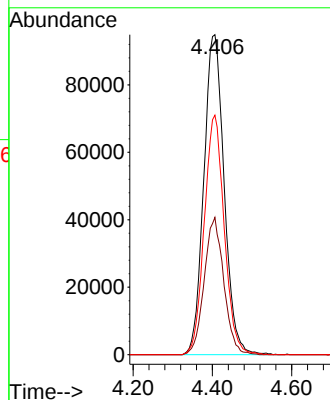
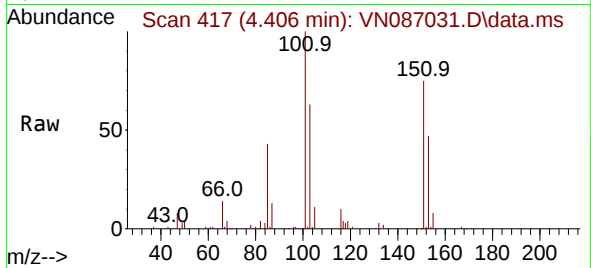




#9
1,1,2-Trichlorotrifluoroethane
Concen: 113.011 ug/l
RT: 4.406 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

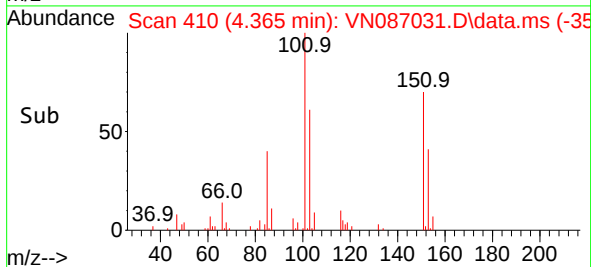
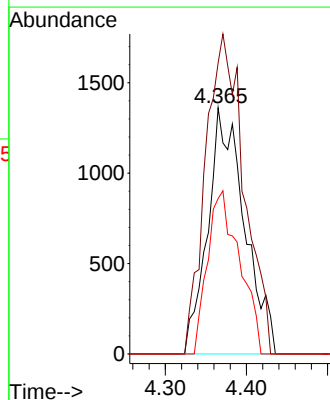
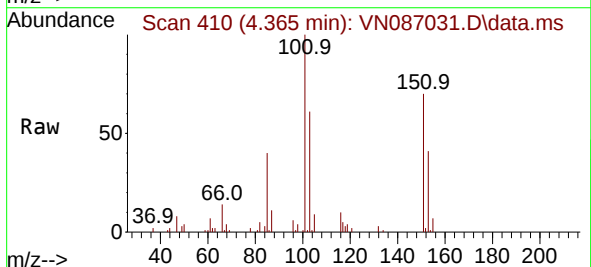
Instrument :
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RE131D2-20250610

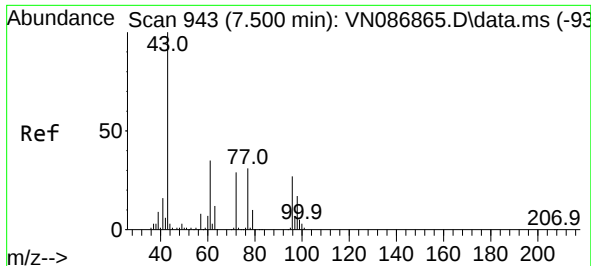
Tgt Ion:101 Resp: 338452
Ion Ratio Lower Upper
101 100
85 41.2 33.8 50.8
151 73.4 58.7 88.1



#12
1,1-Dichloroethene
Concen: 1.399 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 96 Resp: 4276
Ion Ratio Lower Upper
96 100
61 118.2 125.8 188.6#
98 63.1 52.5 78.7

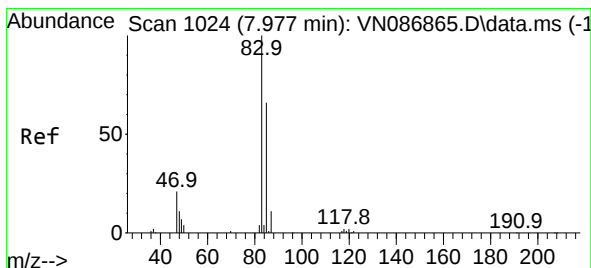
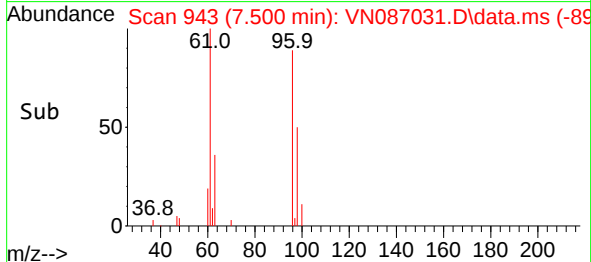
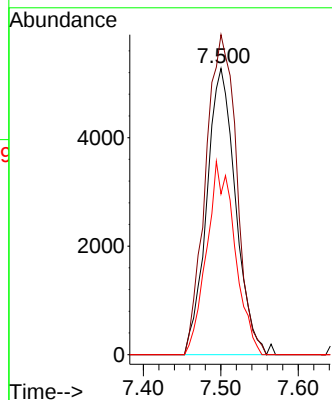
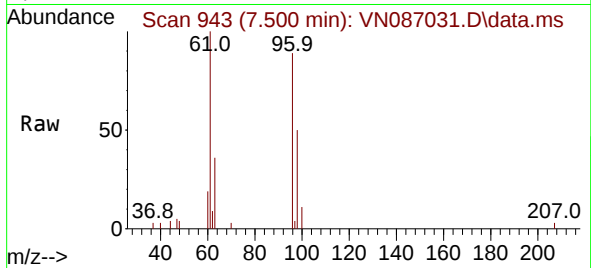




#27
 cis-1,2-Dichloroethene
 Concen: 3.370 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: VN087031.D
 Acq: 16 Jun 2025 15:12

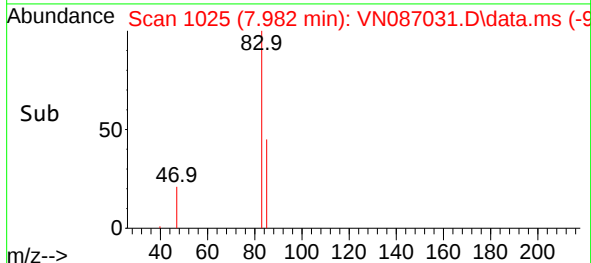
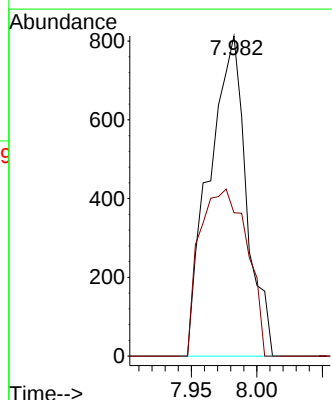
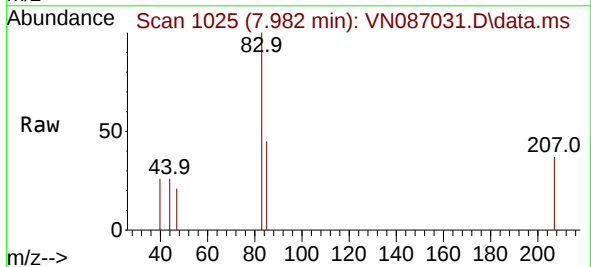
Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20250610

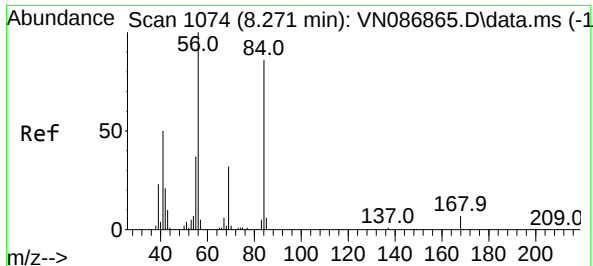
Tgt Ion: 96 Resp: 13711
 Ion Ratio Lower Upper
 96 100
 61 119.2 0.0 278.0
 98 66.0 0.0 128.2



#30
 Chloroform
 Concen: 0.260 ug/l
 RT: 7.982 min Scan# 1025
 Delta R.T. 0.006 min
 Lab File: VN087031.D
 Acq: 16 Jun 2025 15:12

Tgt Ion: 83 Resp: 1599
 Ion Ratio Lower Upper
 83 100
 85 44.8 52.9 79.3#

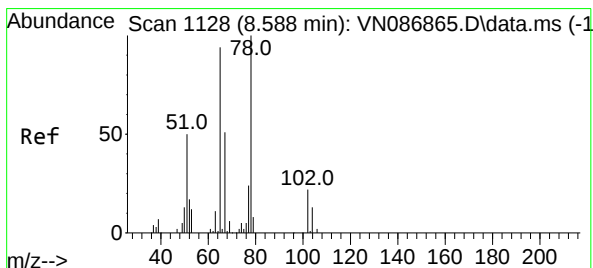
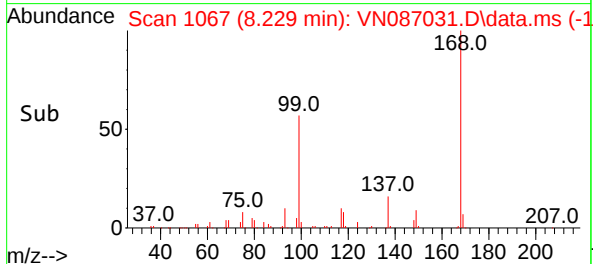
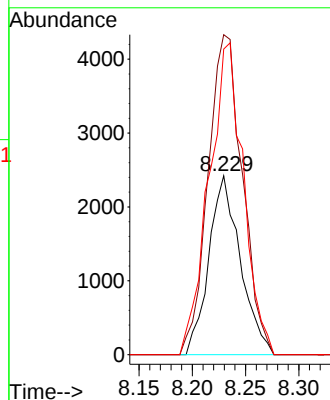
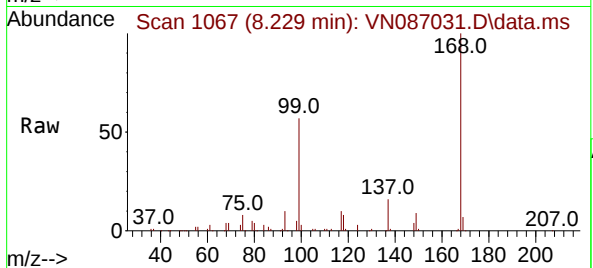




#31
Cyclohexane
Concen: 0.833 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

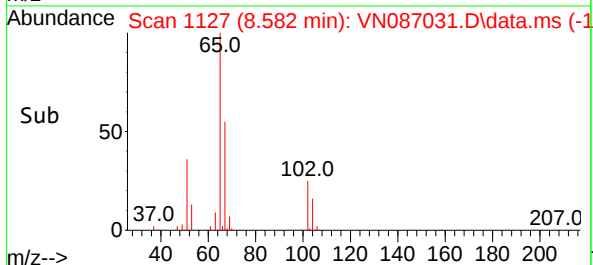
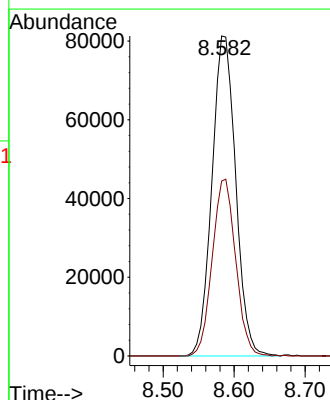
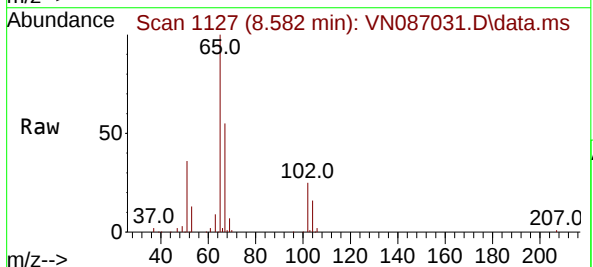
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610

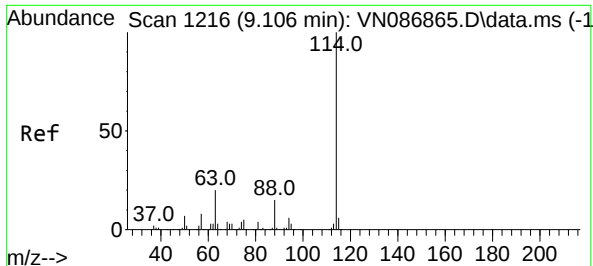
Tgt Ion: 56 Resp: 4970
Ion Ratio Lower Upper
56 100
69 178.9 25.4 38.0#
84 170.9 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 51.342 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 65 Resp: 188834
Ion Ratio Lower Upper
65 100
67 54.4 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: VN087031.D

Acq: 16 Jun 2025 15:12

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20250610

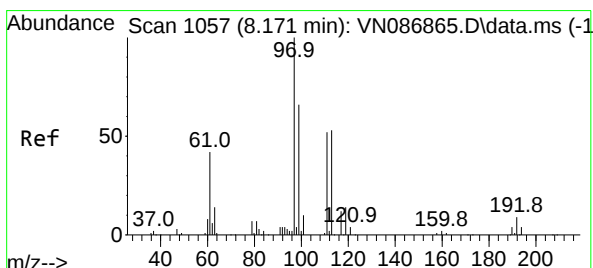
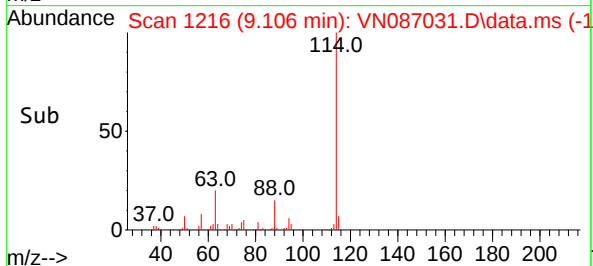
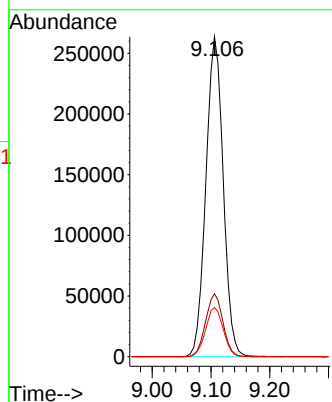
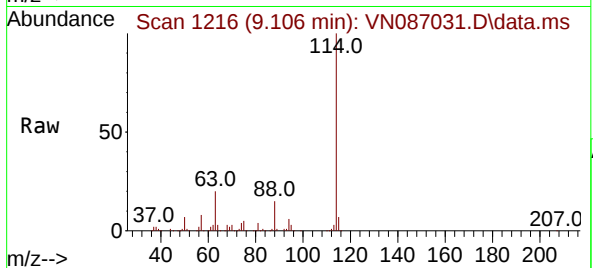
Tgt Ion:114 Resp: 538528

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.821 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087031.D

Acq: 16 Jun 2025 15:12

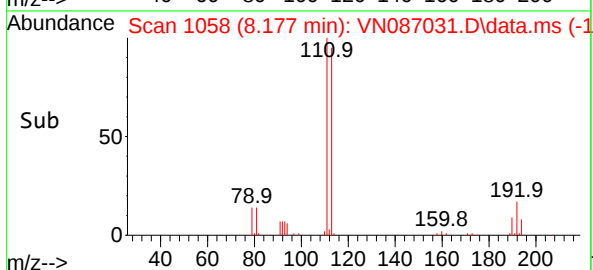
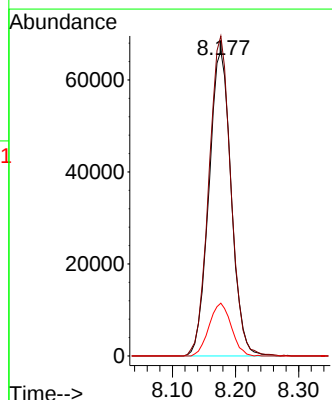
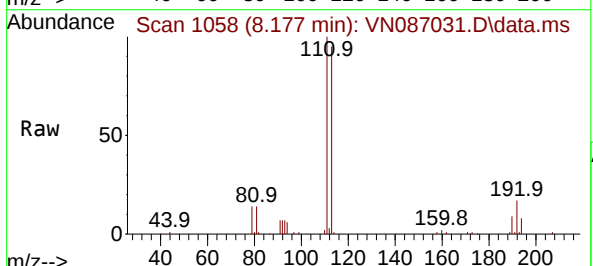
Tgt Ion:113 Resp: 162191

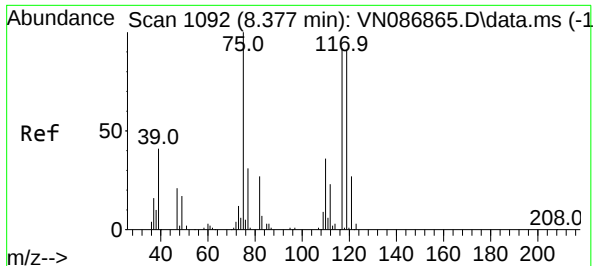
Ion Ratio Lower Upper

113 100

111 103.7 84.2 126.2

192 17.2 14.2 21.4

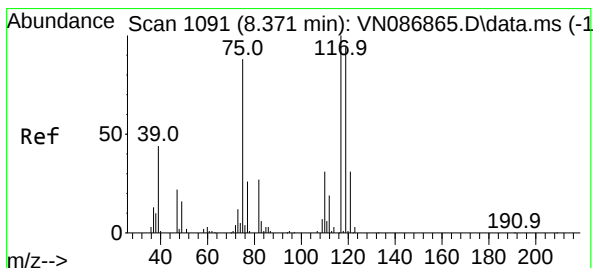
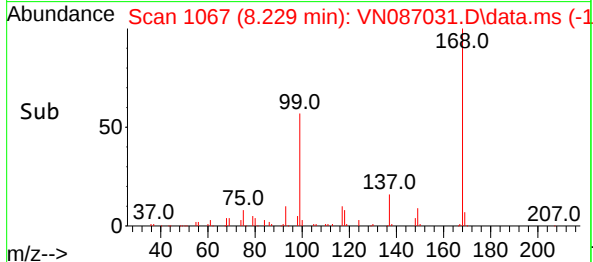
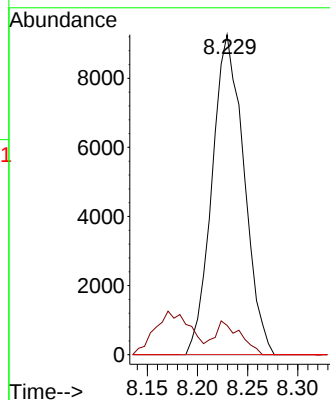
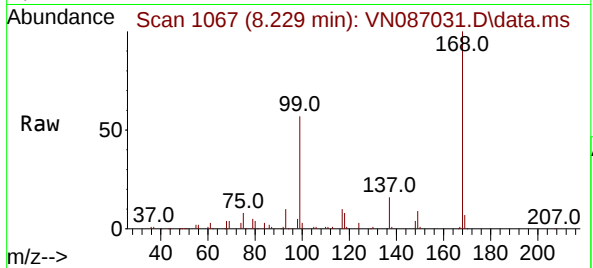




#36
1,1-Dichloropropene
Concen: 4.304 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

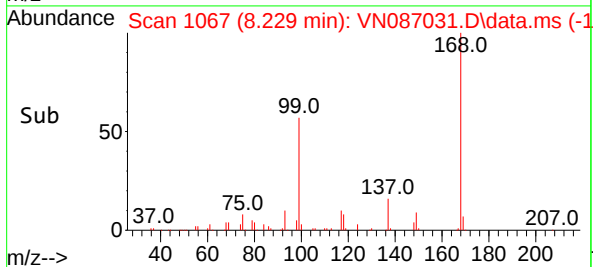
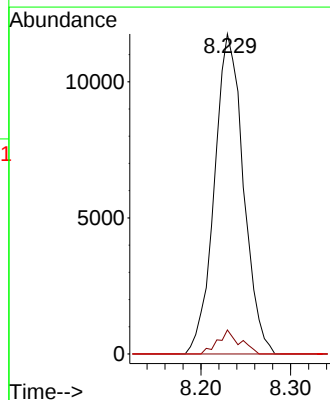
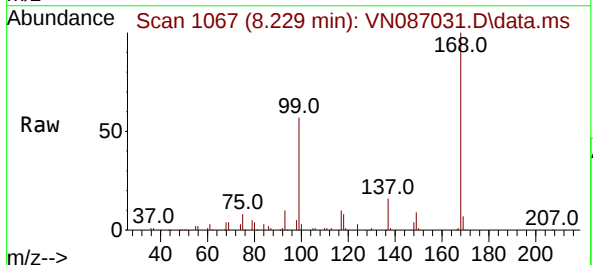
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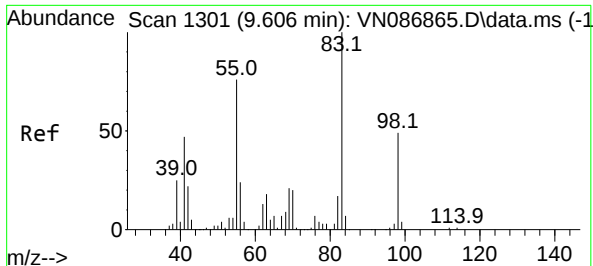
Tgt Ion: 75 Resp: 20467
Ion Ratio Lower Upper
75 100
110 8.6 17.6 52.9#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.658 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

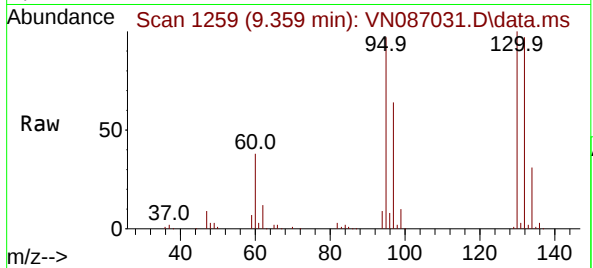
Tgt Ion: 117 Resp: 26415
Ion Ratio Lower Upper
117 100
119 7.5 75.0 112.6#
121 0.0 24.9 37.3#





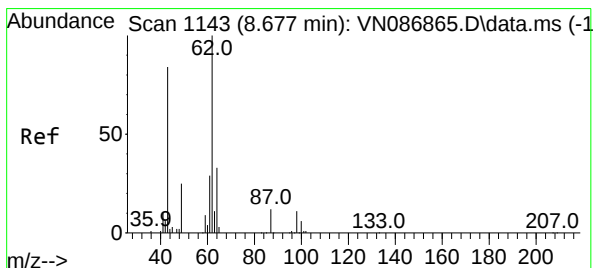
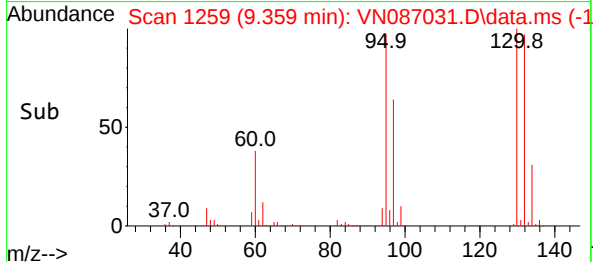
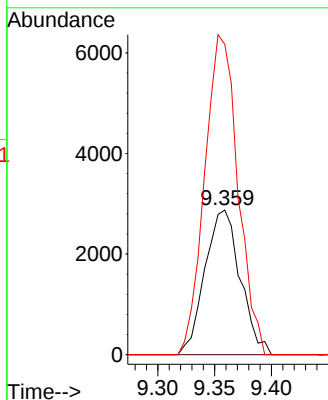
#39
Methylcyclohexane
Concen: 0.957 ug/l
RT: 9.359 min Scan# 11259
Delta R.T. -0.247 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610



Tgt Ion: 83 Resp: 6233

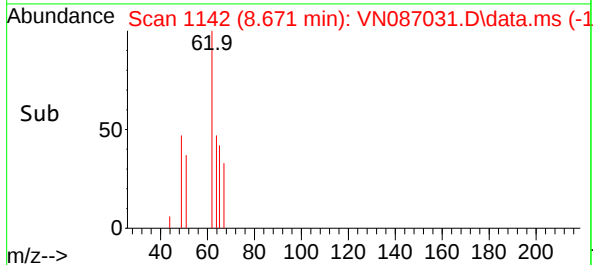
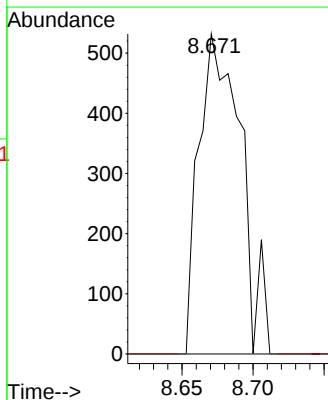
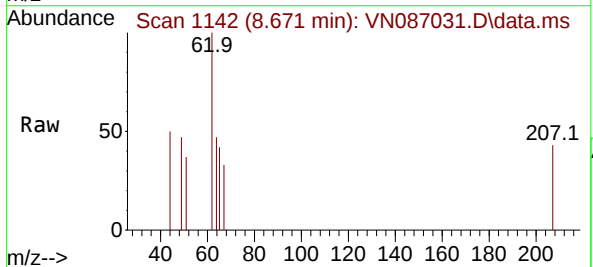
Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.0	91.6#
98	214.5	38.9	58.3#

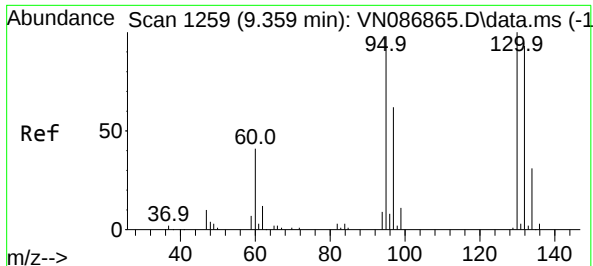


#42
1,2-Dichloroethane
Concen: 0.232 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 62 Resp: 1094

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	21.2

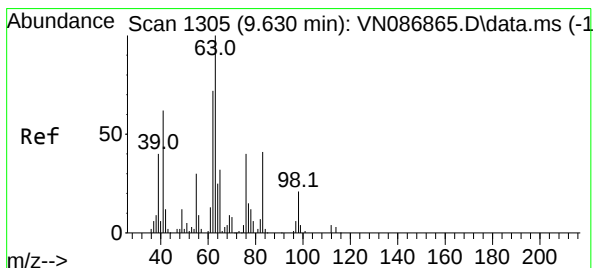
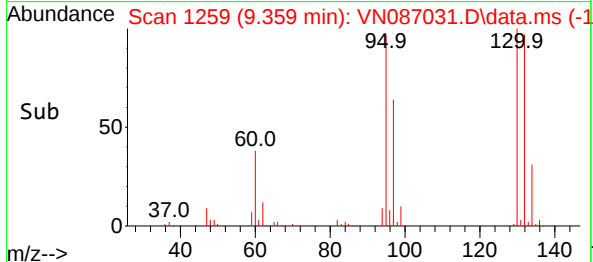
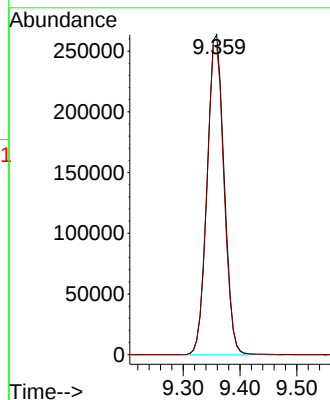
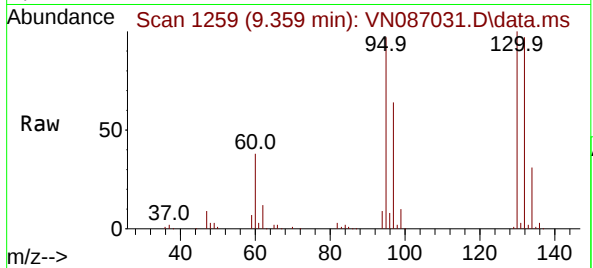




#44
Trichloroethene
Concen: 147.925 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

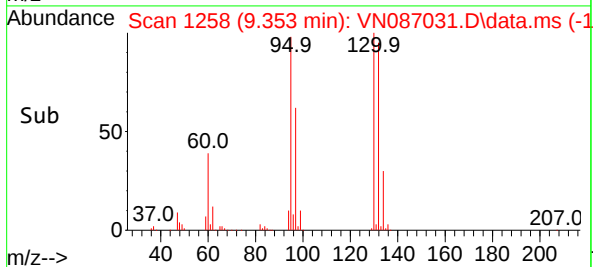
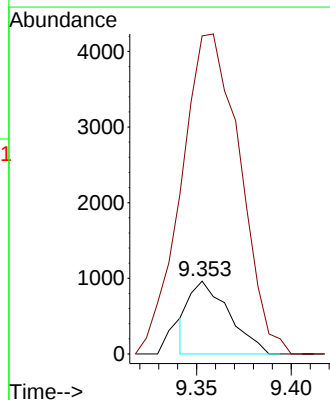
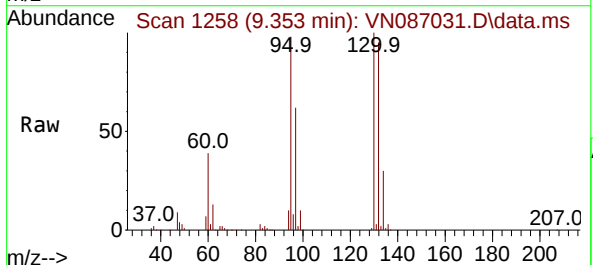
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610

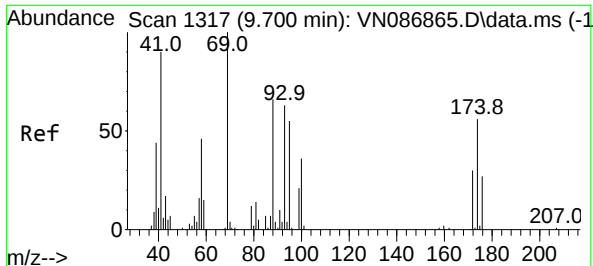
Tgt Ion:130 Resp: 545458
Ion Ratio Lower Upper
130 100
95 96.7 0.0 196.2



#45
1,2-Dichloropropane
Concen: 0.371 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.277 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 63 Resp: 1403
Ion Ratio Lower Upper
63 100
65 416.1 25.5 38.3#





#49

1,4-Dioxane

Concen: 18.769 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN087031.D

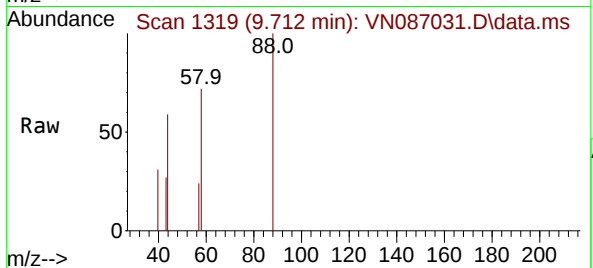
Acq: 16 Jun 2025 15:12

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20250610



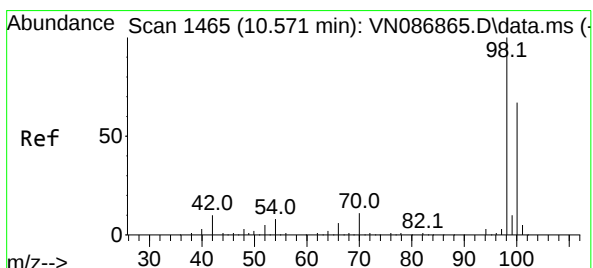
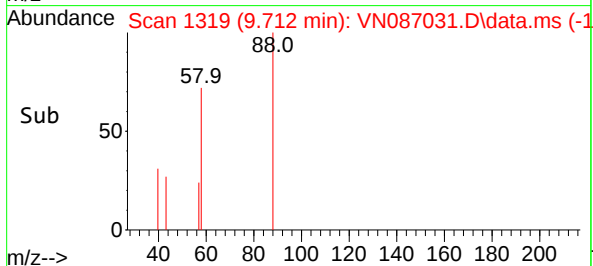
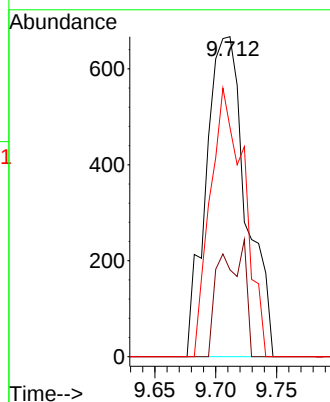
Tgt Ion: 88 Resp: 1527

Ion Ratio Lower Upper

88 100

43 22.9 0.0 0.0#

58 71.3 57.7 86.5



#50

Toluene-d8

Concen: 52.145 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN087031.D

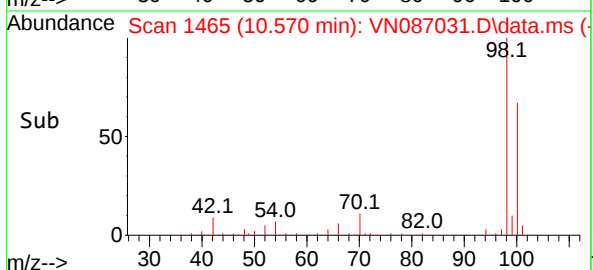
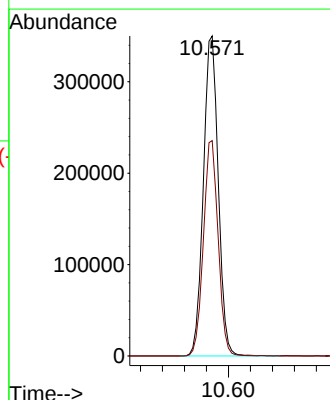
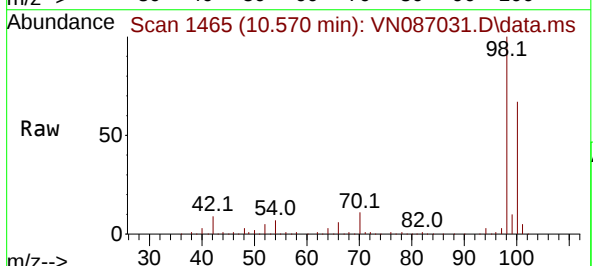
Acq: 16 Jun 2025 15:12

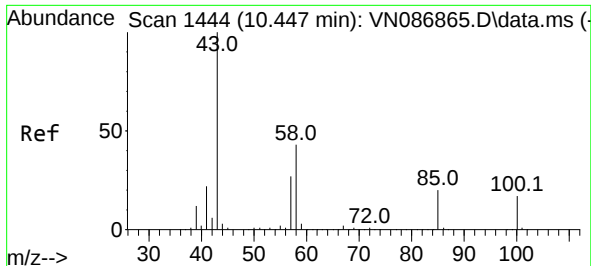
Tgt Ion: 98 Resp: 658800

Ion Ratio Lower Upper

98 100

100 66.3 53.4 80.0

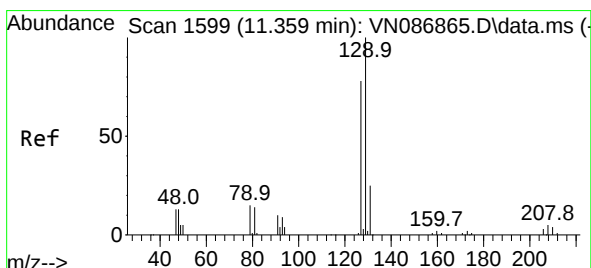
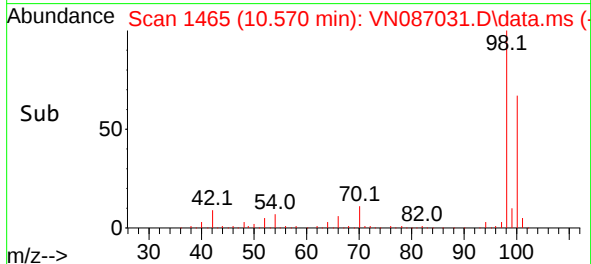
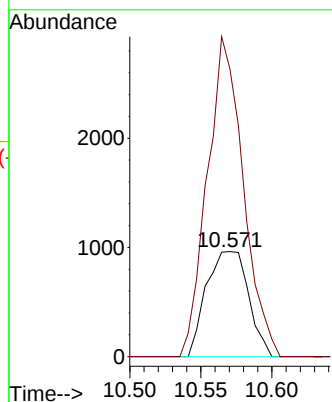
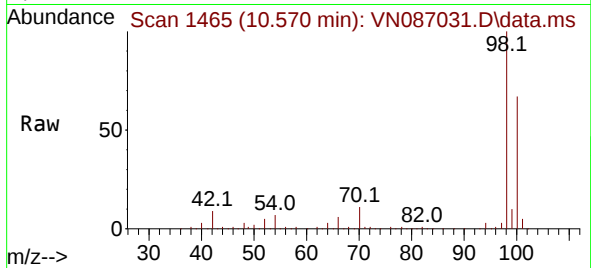




#51
4-Methyl-2-Pentanone
Concen: 0.340 ug/l
RT: 10.570 min Scan# 14
Delta R.T. 0.123 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

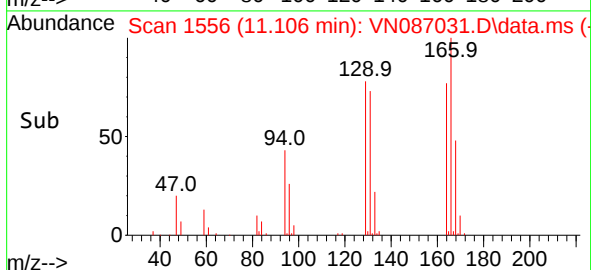
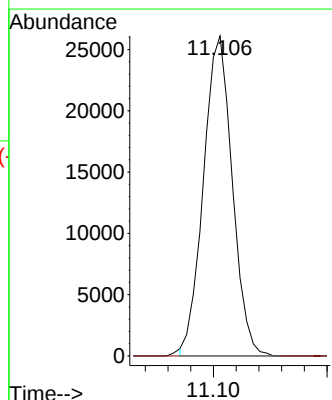
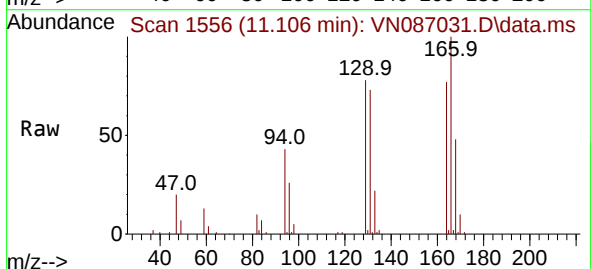
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610

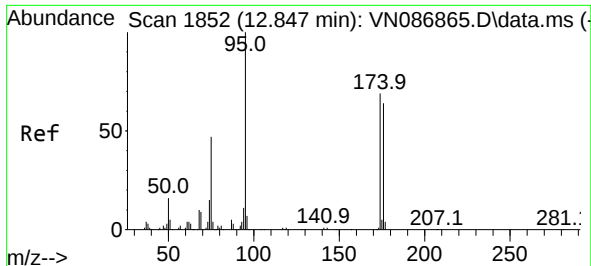
Tgt Ion: 43 Resp: 1987
Ion Ratio Lower Upper
43 100
58 260.1 34.2 51.4#



#60
Dibromochloromethane
Concen: 12.061 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 129 Resp: 45952
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

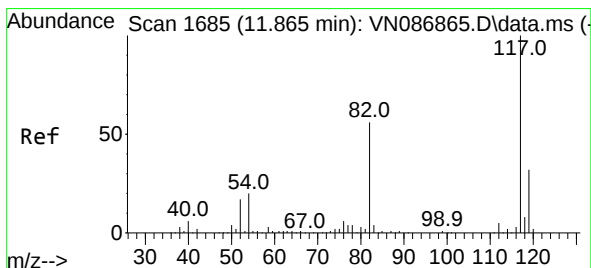
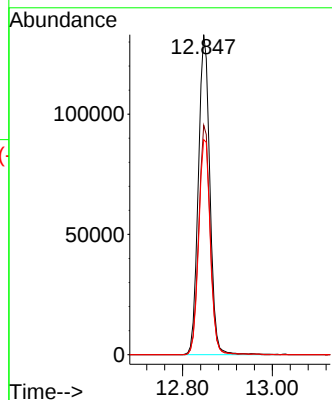
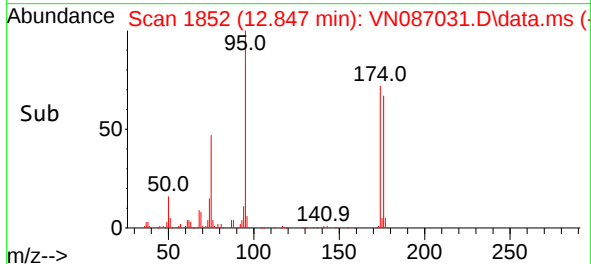
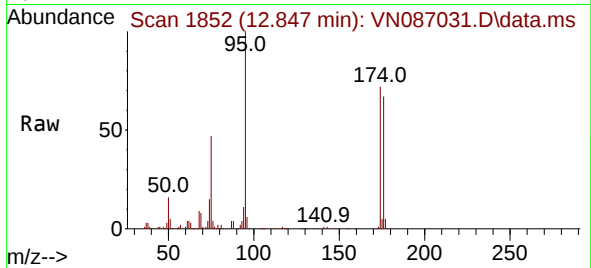




#62
4-Bromofluorobenzene
Concen: 50.439 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

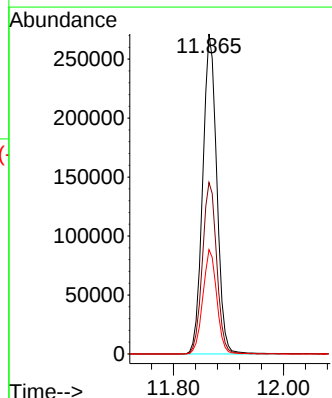
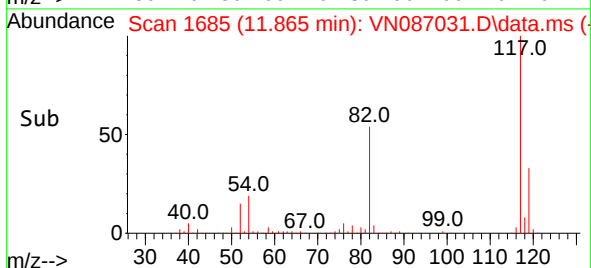
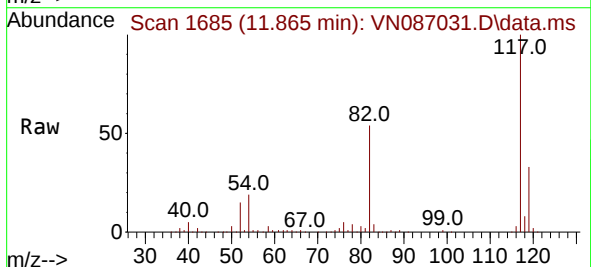
Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610

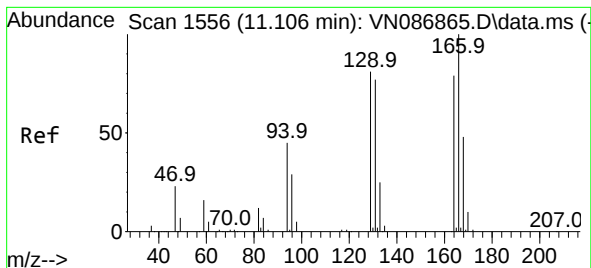
Tgt Ion: 95 Resp: 236759
Ion Ratio Lower Upper
95 100
174 71.1 0.0 141.8
176 67.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Tgt Ion: 117 Resp: 482289
Ion Ratio Lower Upper
117 100
82 53.6 44.6 67.0
119 32.6 25.5 38.3





#64

Tetrachloroethene

Concen: 15.270 ug/l

RT: 11.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087031.D

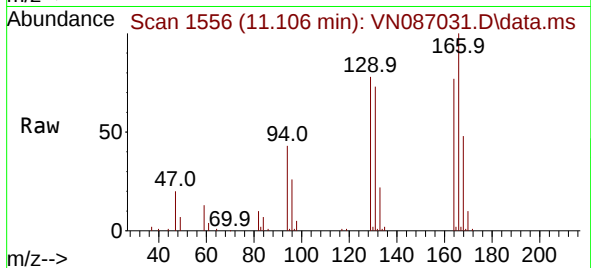
Acq: 16 Jun 2025 15:12

Instrument :

MSVOA_N

ClientSampleId :

RE131D2-20250610



Tgt Ion:164 Resp: 46608

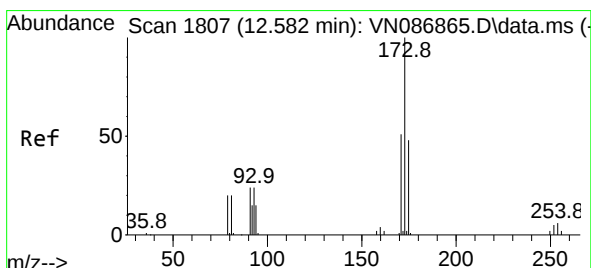
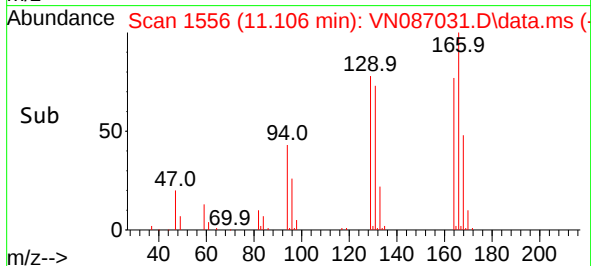
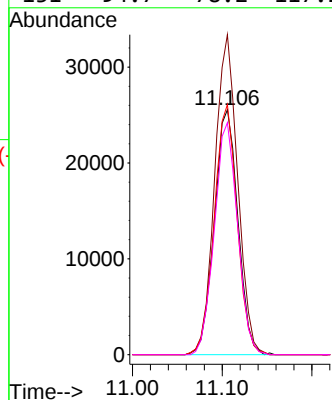
Ion Ratio Lower Upper

164 100

166 130.6 101.8 152.8

129 102.1 83.0 124.4

131 94.7 78.2 117.2



#71

Bromoform

Concen: 0.486 ug/l

RT: 12.841 min Scan# 1851

Delta R.T. 0.259 min

Lab File: VN087031.D

Acq: 16 Jun 2025 15:12

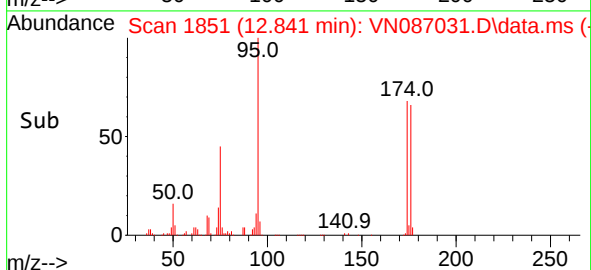
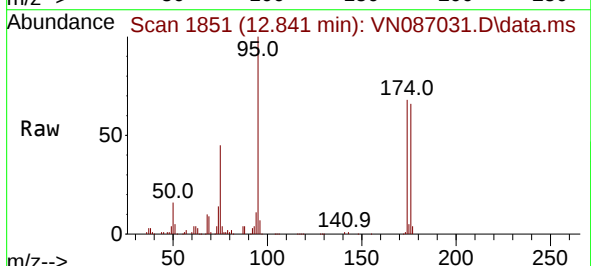
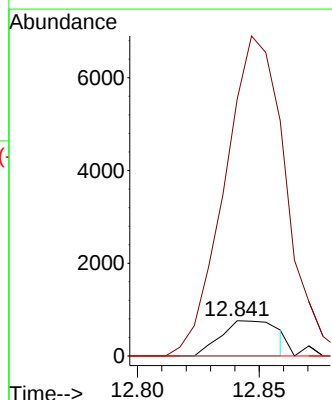
Tgt Ion:173 Resp: 1232

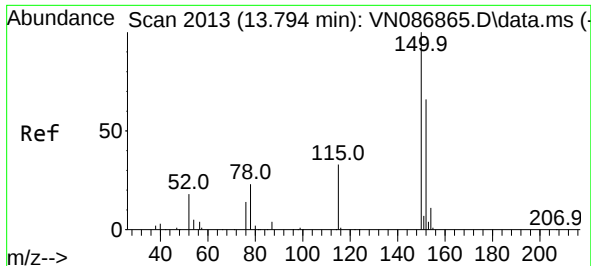
Ion Ratio Lower Upper

173 100

175 868.0 24.1 72.4#

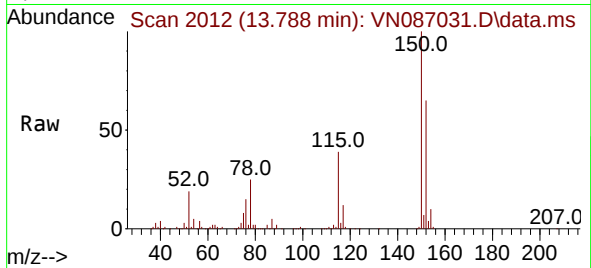
254 0.0 0.0 0.0



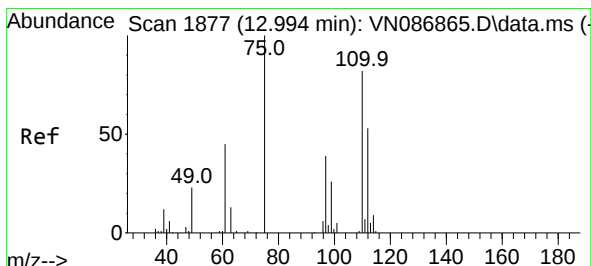
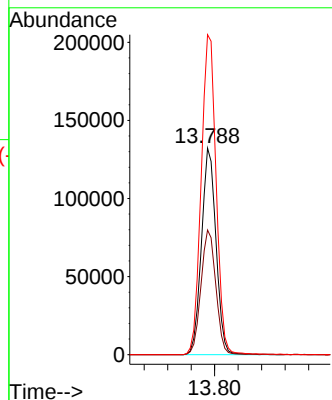
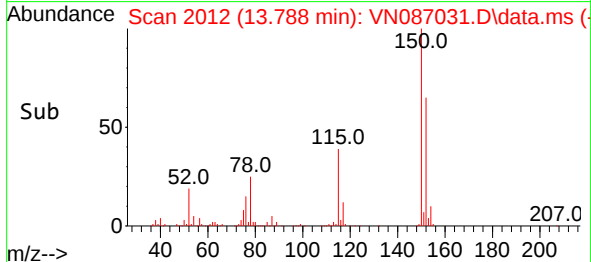


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2013
 Delta R.T. -0.006 min
 Lab File: VN087031.D
 Acq: 16 Jun 2025 15:12

Instrument :
 MSVOA_N
 ClientSampleId :
 RE131D2-20250610

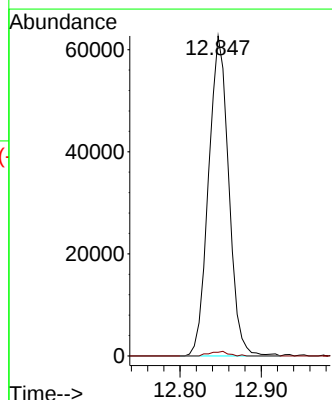
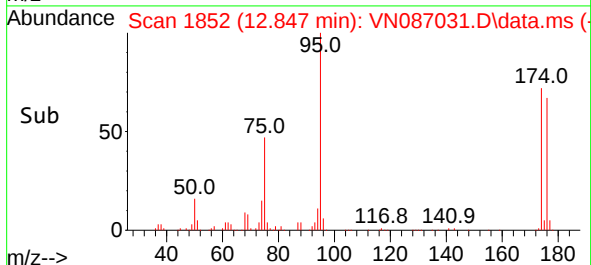
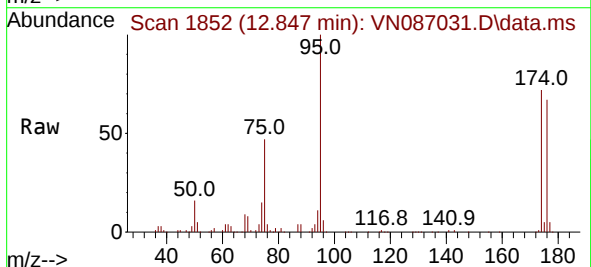


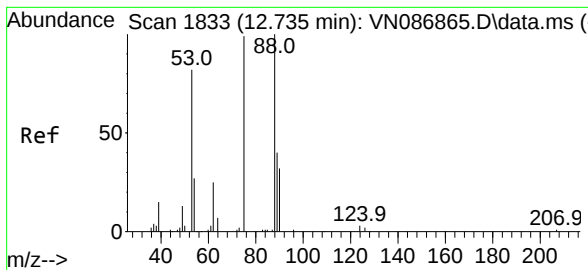
Tgt Ion:152 Resp: 227199
 Ion Ratio Lower Upper
 152 100
 115 61.7 30.1 90.5
 150 159.4 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 20.057 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087031.D
 Acq: 16 Jun 2025 15:12

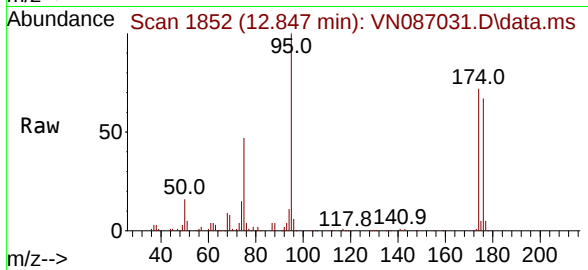
Tgt Ion: 75 Resp: 108322
 Ion Ratio Lower Upper
 75 100
 77 1.3 79.3 237.9#





#81
trans-1,4-Dichloro-2-butene
Concen: 46.171 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087031.D
Acq: 16 Jun 2025 15:12

Instrument :
MSVOA_N
ClientSampleId :
RE131D2-20250610



Tgt Ion: 75 Resp: 108322
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#

