

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
 Data File : VN087564.D
 Acq On : 14 Aug 2025 14:36
 Operator : JC\MD
 Sample : Q2838-08RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 15:25:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

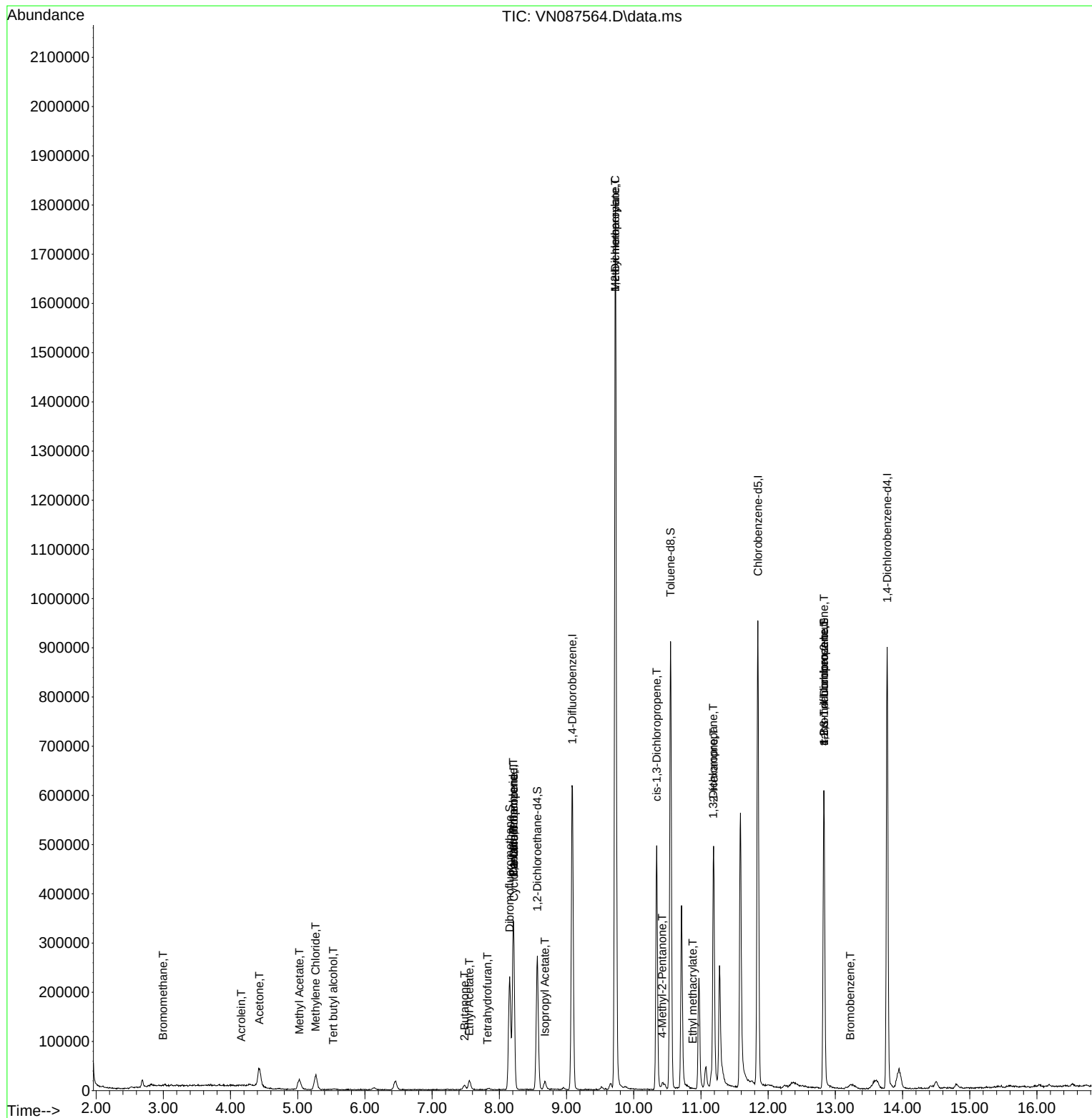
Internal Standards						
1) Pentafluorobenzene	8.212	168	221780	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	507374	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	489299	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	222149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	222922	59.238	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.480%			
35) Dibromofluoromethane	8.153	113	158852	45.388	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.780%			
50) Toluene-d8	10.547	98	591168	47.352	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.700%			
62) 4-Bromofluorobenzene	12.829	95	215954	46.820	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.640%			
Target Compounds						Qvalue
5) Bromomethane	2.995	94	519	0.340	ug/l #	37
11) Tert butyl alcohol	5.530	59	790	1.106	ug/l #	72
13) Acrolein	4.159	56	521	0.909	ug/l #	30
16) Acetone	4.430	43	70209	39.791	ug/l	99
18) Methyl Acetate	5.024	43	43270	9.761	ug/l	96
20) Methylene Chloride	5.265	84	20262	6.233	ug/l	94
25) 2-Butanone	7.483	43	15307	5.615	ug/l	98
29) Tetrahydrofuran	7.824	42	592	0.334	ug/l #	17
31) Cyclohexane	8.218	56	7675	1.659	ug/l #	38
36) 1,1-Dichloropropene	8.212	75	22530	4.872	ug/l #	52
37) Ethyl Acetate	7.553	43	29882	4.475	ug/l	99
38) Carbon Tetrachloride	8.206	117	28168	5.530	ug/l #	14
43) Isopropyl Acetate	8.677	43	19789	1.909	ug/l #	91
45) 1,2-Dichloropropane	9.724	63	2478	0.653	ug/l #	41
48) Methyl methacrylate	9.724	41	174472	37.385	ug/l #	46
51) 4-Methyl-2-Pentanone	10.424	43	8344	1.273	ug/l	88
54) cis-1,3-Dichloropropene	10.341	75	84506	14.116	ug/l #	69
56) Ethyl methacrylate	10.877	69	83	0.649	ug/l #	24
57) 1,3-Dichloropropane	11.182	76	5360	0.843	ug/l #	42
59) 2-Hexanone	11.188	43	102794	23.630	ug/l #	48
76) 1,2,3-Trichloropropane	12.829	75	124532	24.999	ug/l #	1
77) Bromobenzene	13.224	156	2509	0.692	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	124532	68.401	ug/l #	8

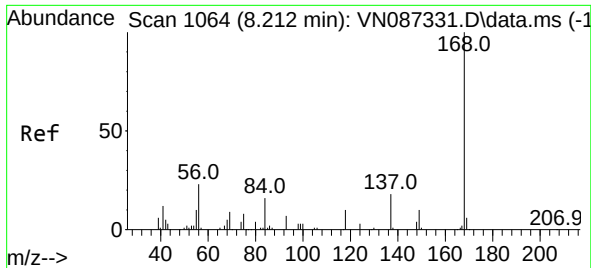
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087564.D
Acq On : 14 Aug 2025 14:36
Operator : JC\MD
Sample : Q2838-08RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

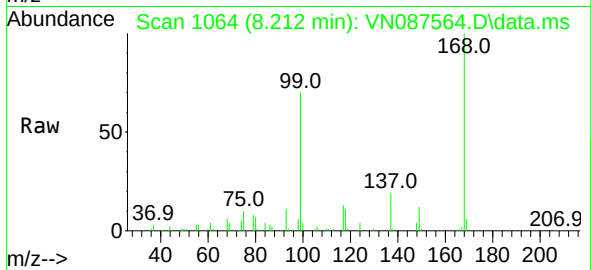
Quant Time: Aug 14 15:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



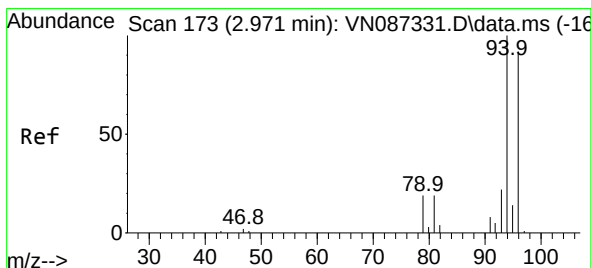
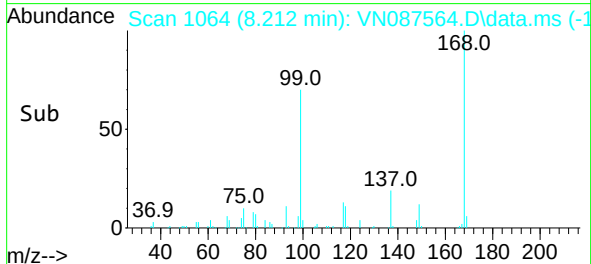
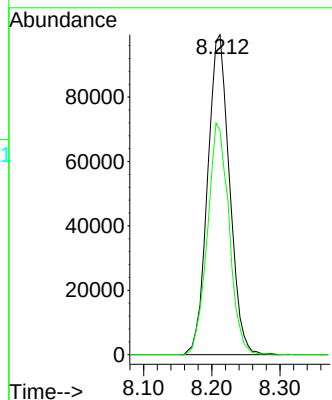


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :

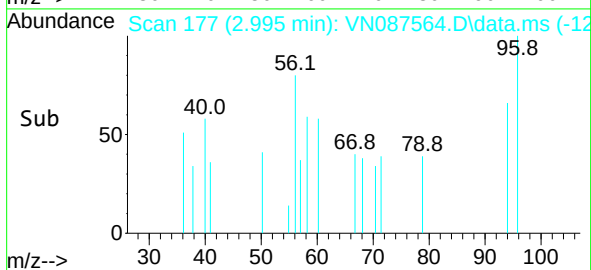
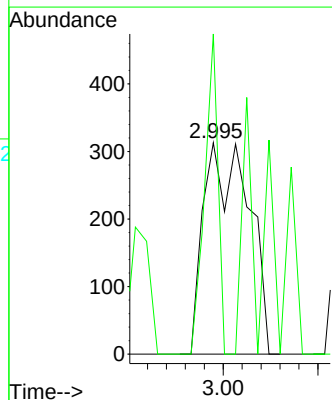
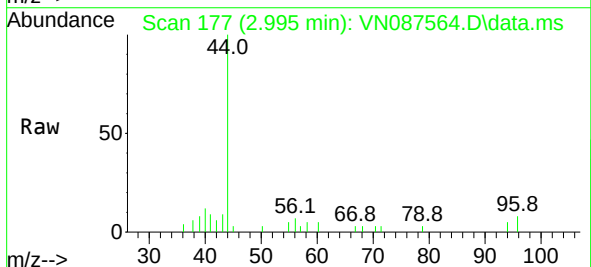


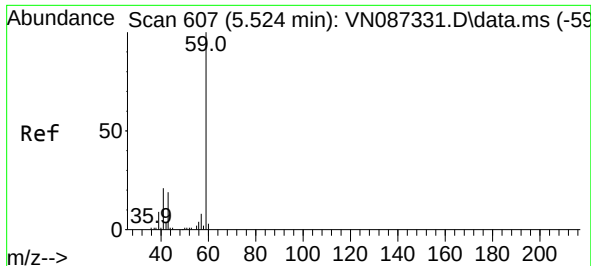
Tgt Ion:168 Resp: 221780
Ion Ratio Lower Upper
168 100
99 70.0 47.9 71.9



#5
Bromomethane
Concen: 0.340 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

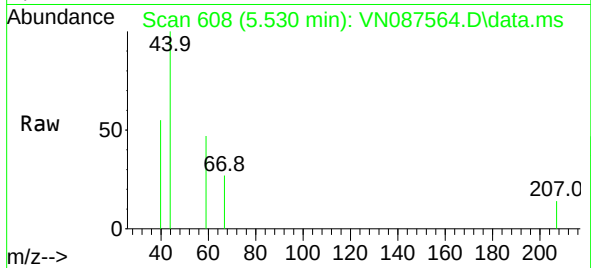
Tgt Ion: 94 Resp: 519
Ion Ratio Lower Upper
94 100
96 151.4 73.4 110.2#



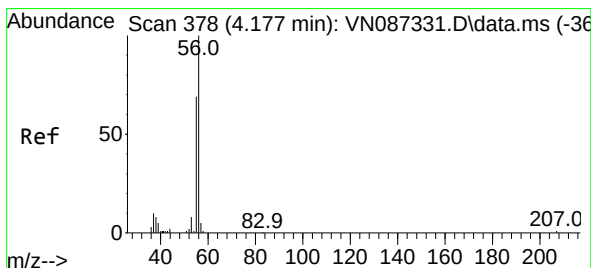
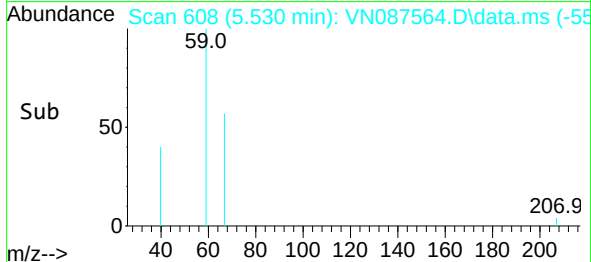
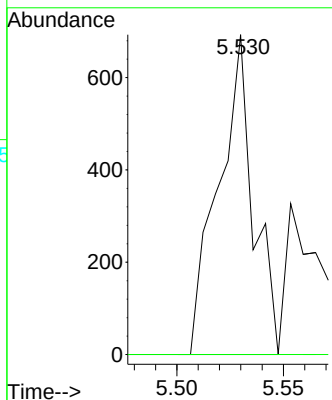


#11
Tert butyl alcohol
Concen: 1.106 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :

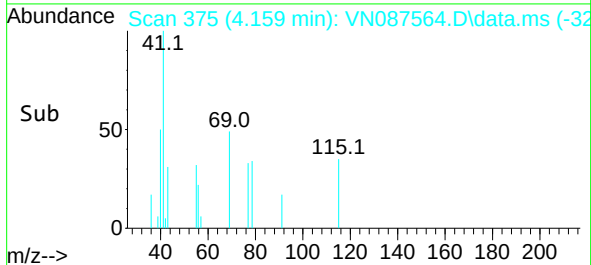
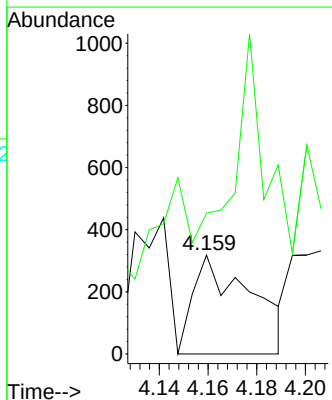
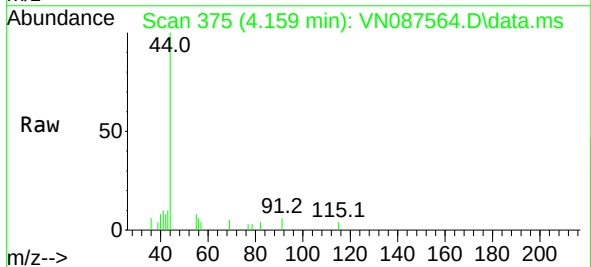


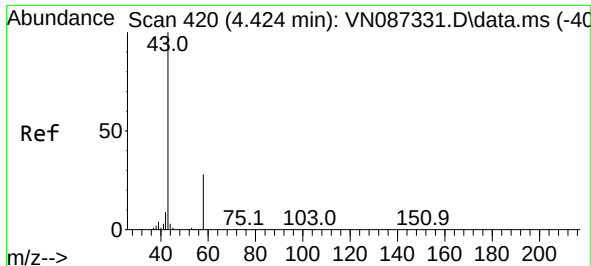
Tgt Ion: 59 Resp: 790
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.909 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.017 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 56 Resp: 521
Ion Ratio Lower Upper
56 100
55 127.6 56.2 84.4#

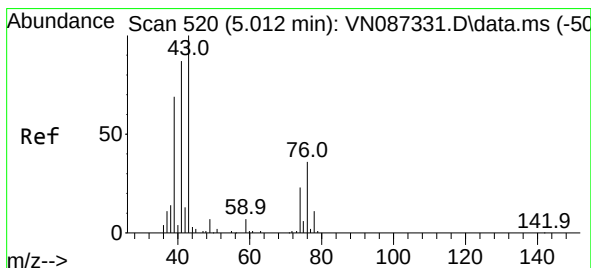
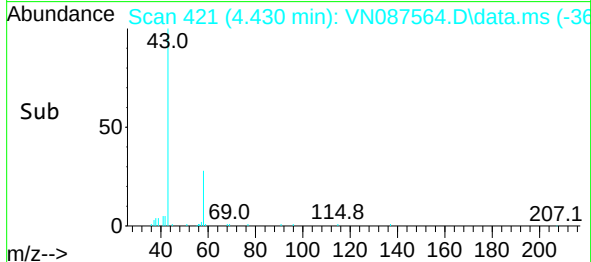
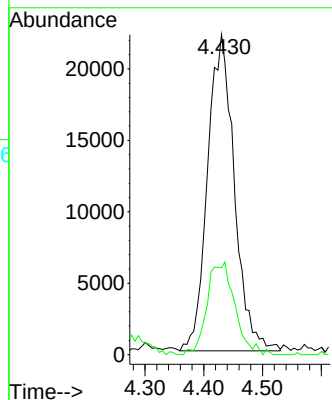
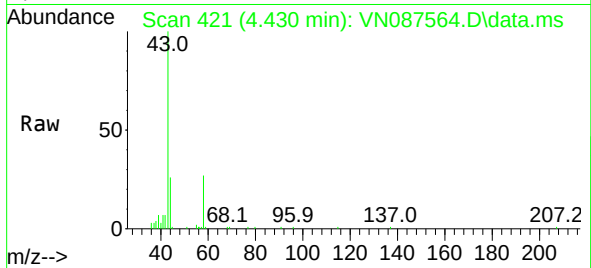




#16
Acetone
Concen: 39.791 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

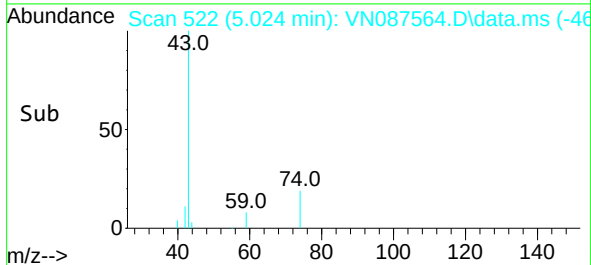
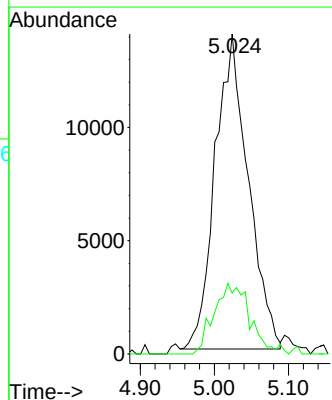
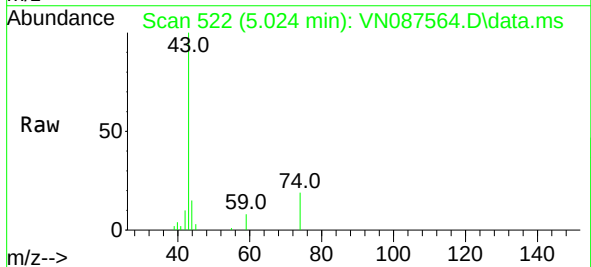
Instrument :
MSVOA_N
ClientSampleId :

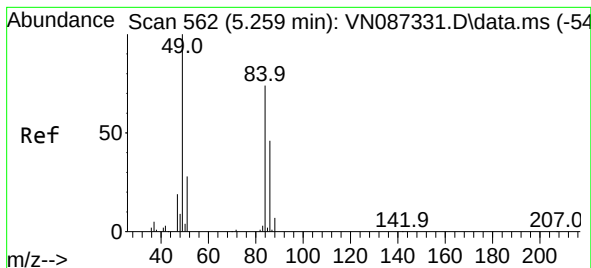
Tgt Ion: 43 Resp: 70209
Ion Ratio Lower Upper
43 100
58 27.5 22.3 33.5



#18
Methyl Acetate
Concen: 9.761 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 43 Resp: 43270
Ion Ratio Lower Upper
43 100
74 24.2 17.8 26.6





#20

Methylene Chloride

Concen: 6.233 ug/l

RT: 5.265 min Scan# 5

Delta R.T. 0.006 min

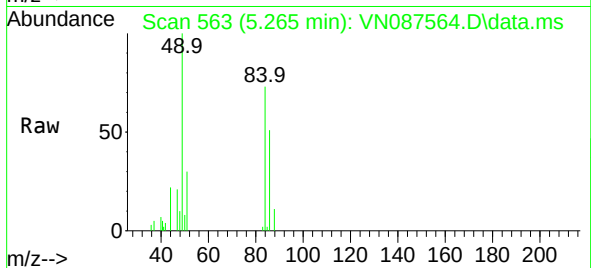
Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Instrument :

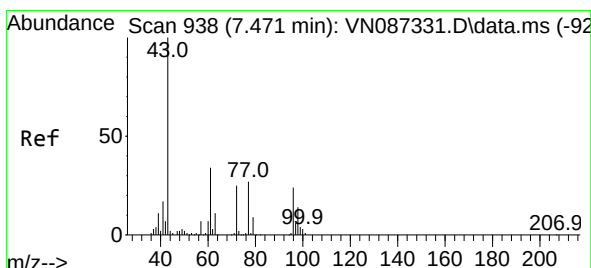
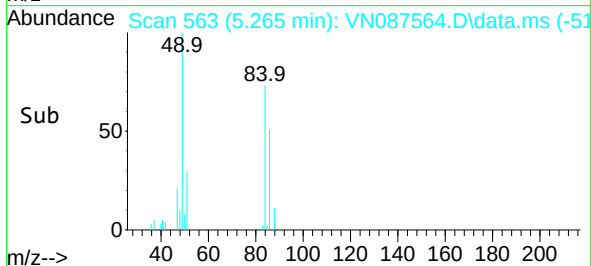
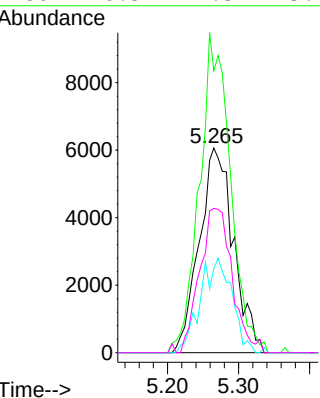
MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 20262

Ion	Ratio	Lower	Upper
84	100		
49	137.7	107.5	161.3
51	41.2	30.2	45.2
86	70.5	49.3	73.9



#25

2-Butanone

Concen: 5.615 ug/l

RT: 7.483 min Scan# 940

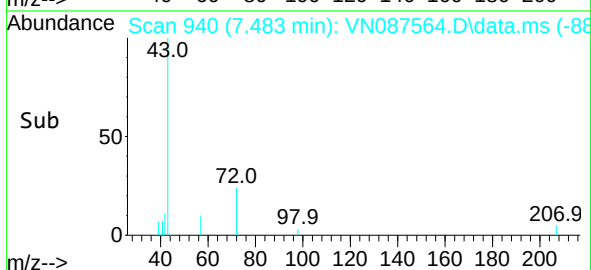
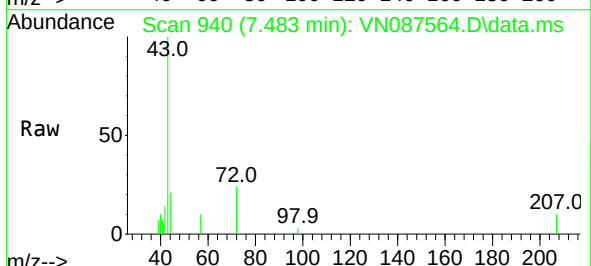
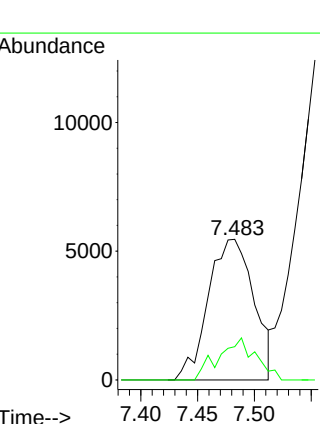
Delta R.T. 0.012 min

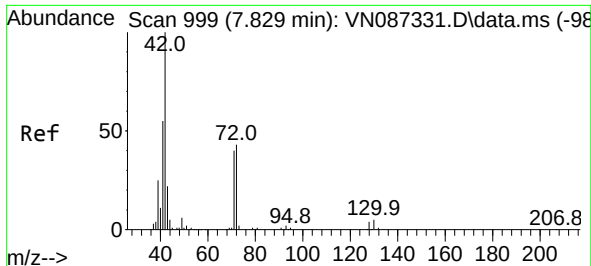
Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Tgt Ion: 43 Resp: 15307

Ion	Ratio	Lower	Upper
43	100		
72	23.7	19.6	29.4





#29

Tetrahydrofuran

Concen: 0.334 ug/l

RT: 7.824 min Scan# 91

Delta R.T. -0.006 min

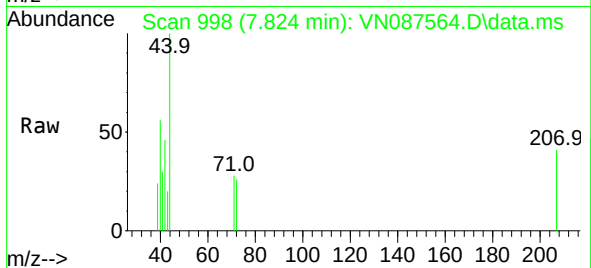
Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

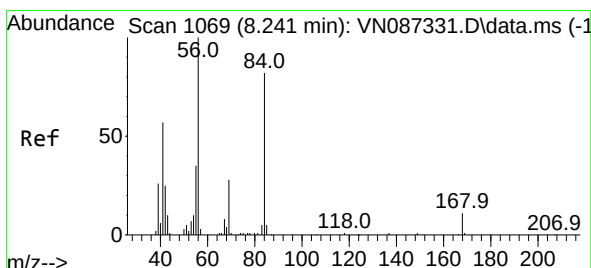
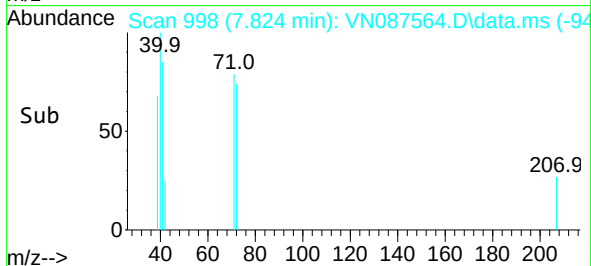
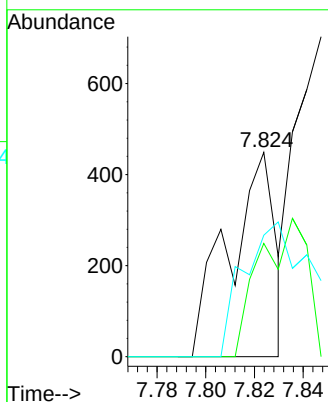
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	592
Ion	Ratio	Lower	Upper
42	100		
72	82.6	33.4	50.0#
71	101.5	31.2	46.8#



#31

Cyclohexane

Concen: 1.659 ug/l

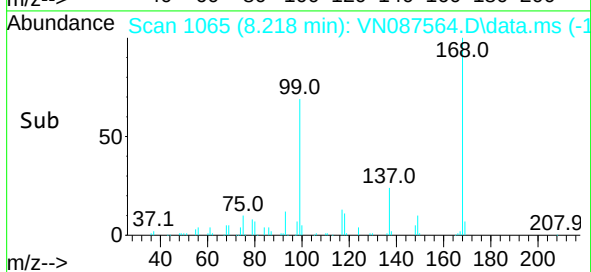
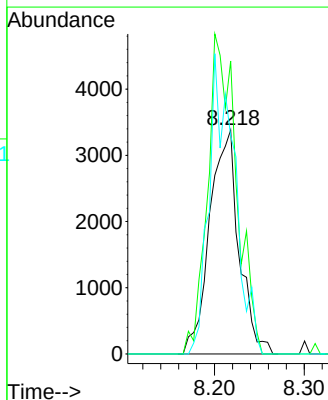
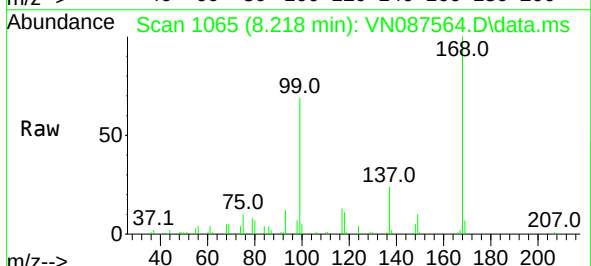
RT: 8.218 min Scan# 1065

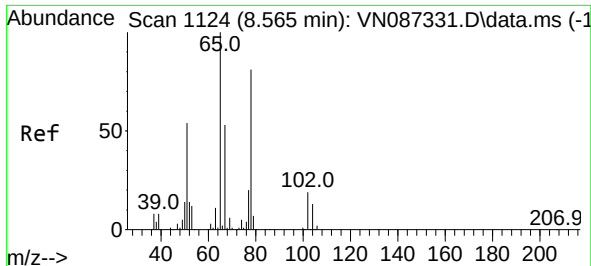
Delta R.T. -0.023 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Tgt Ion:	56	Resp:	7675
Ion	Ratio	Lower	Upper
56	100		
69	130.8	22.7	34.1#
84	97.4	65.8	98.6

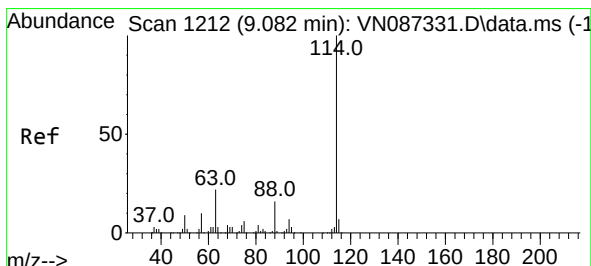
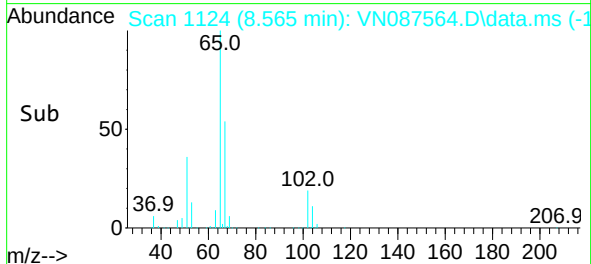
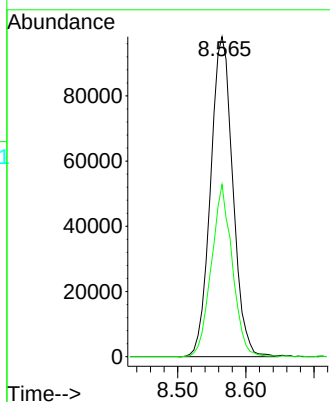
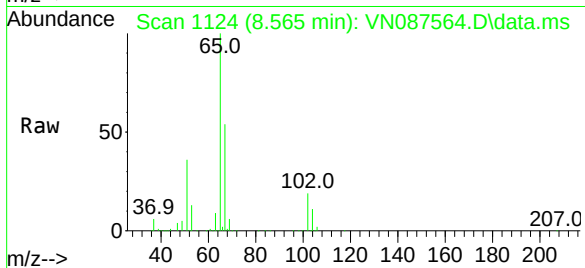




#33
1,2-Dichloroethane-d4
Concen: 59.238 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

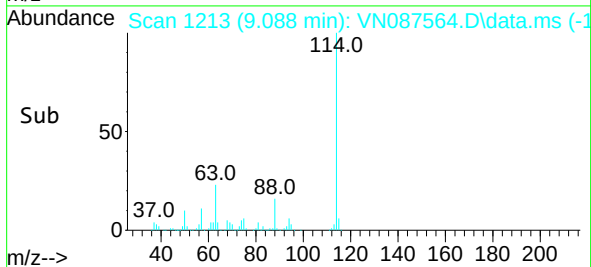
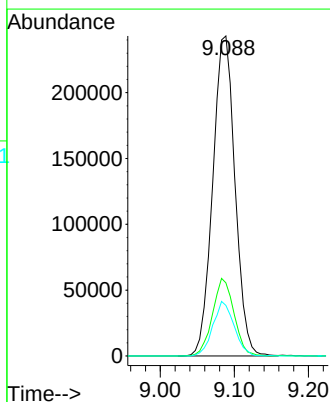
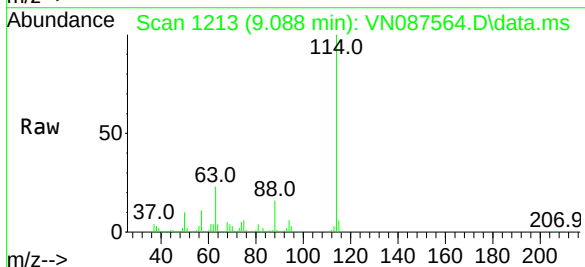
Instrument :
MSVOA_N
ClientSampleId :

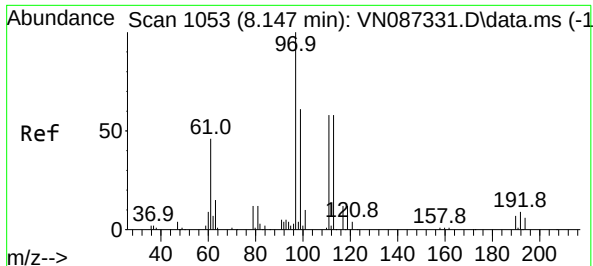
Tgt Ion: 65 Resp: 222922
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 114 Resp: 507374
Ion Ratio Lower Upper
114 100
63 22.9 0.0 44.6
88 15.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 45.388 ug/l

RT: 8.153 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Instrument :

MSVOA_N

ClientSampleId :

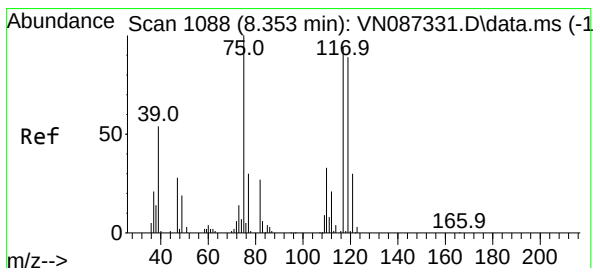
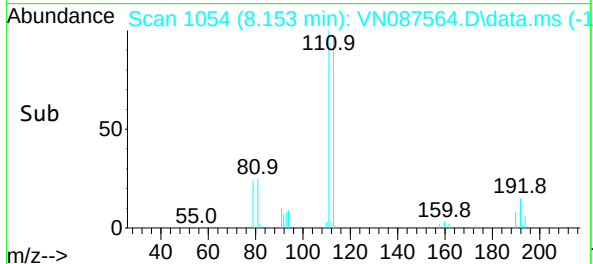
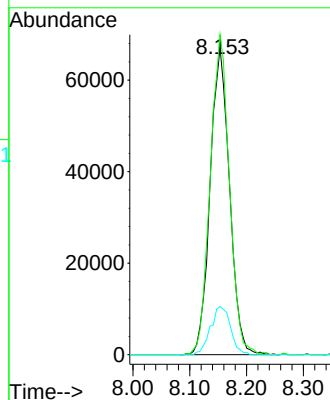
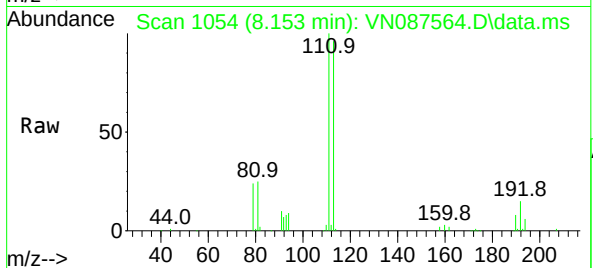
Tgt Ion:113 Resp: 158852

Ion Ratio Lower Upper

113 100

111 103.5 82.5 123.7

192 16.2 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.872 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

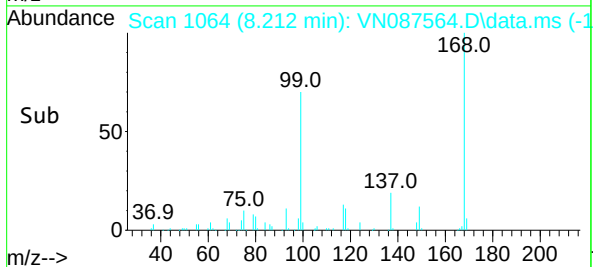
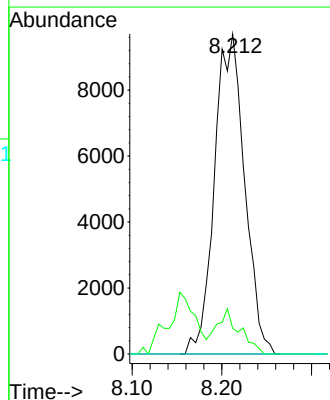
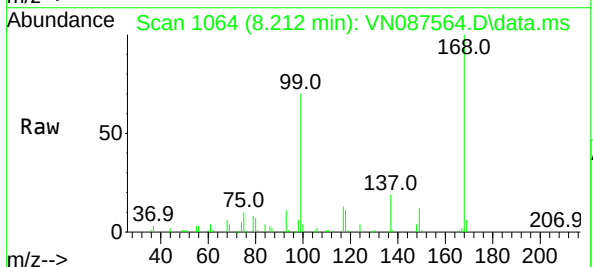
Tgt Ion: 75 Resp: 22530

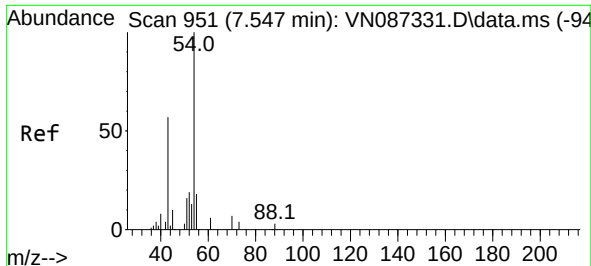
Ion Ratio Lower Upper

75 100

110 10.9 16.7 50.1#

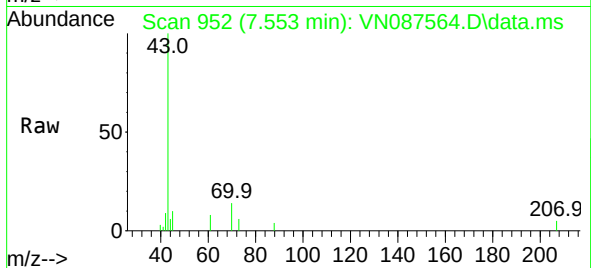
77 0.0 25.2 37.8#



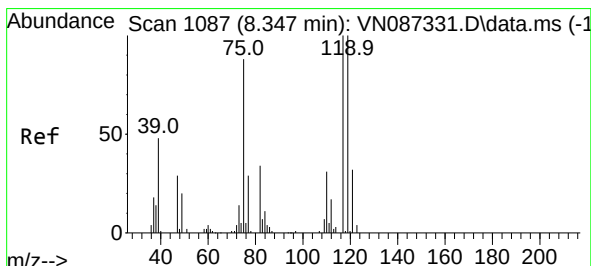
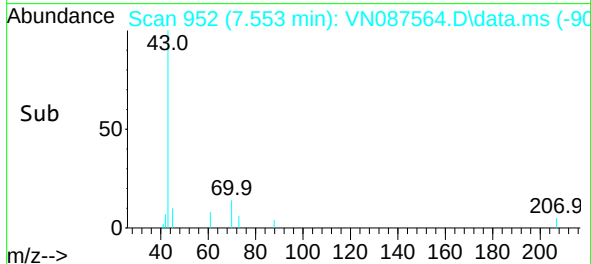
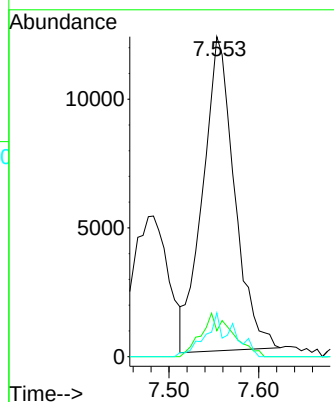


#37
Ethyl Acetate
Concen: 4.475 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :

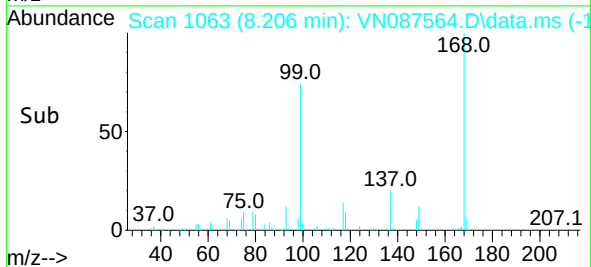
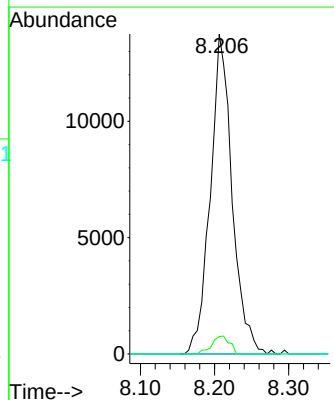
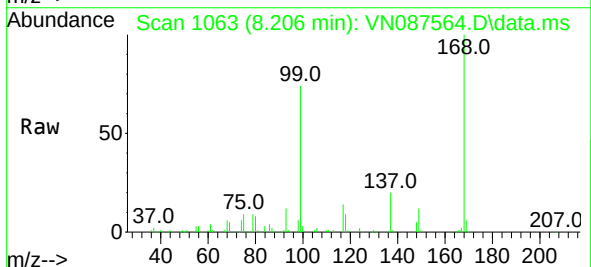


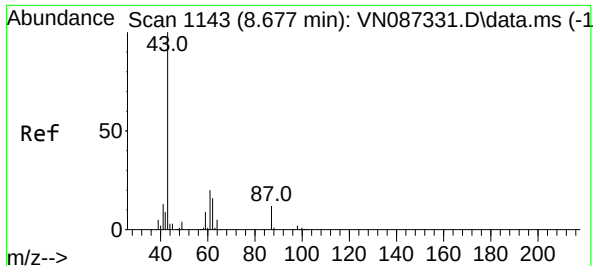
Tgt Ion: 43 Resp: 29882
Ion Ratio Lower Upper
43 100
61 13.5 10.9 16.3
70 8.1 7.4 11.0



#38
Carbon Tetrachloride
Concen: 5.530 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

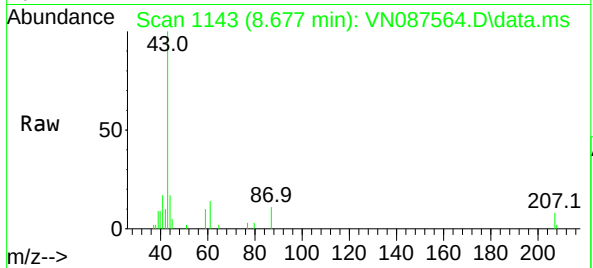
Tgt Ion: 117 Resp: 28168
Ion Ratio Lower Upper
117 100
119 5.5 80.2 120.2#
121 0.0 25.4 38.2#



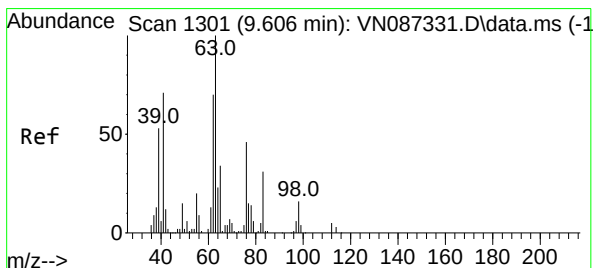
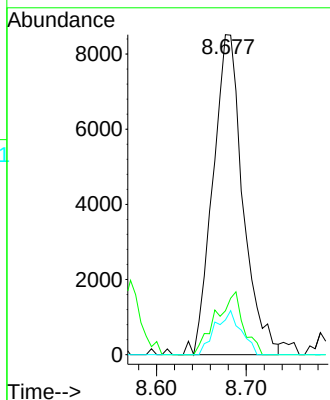
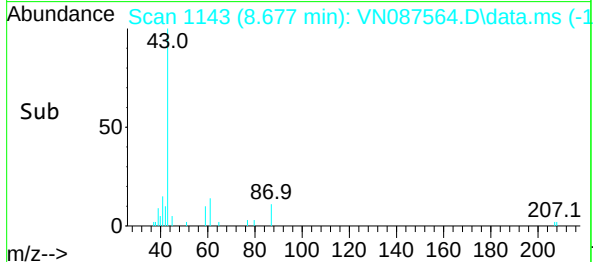


#43
Isopropyl Acetate
Concen: 1.909 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

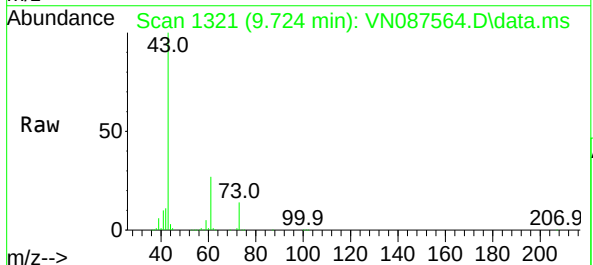
Instrument :
MSVOA_N
ClientSampleId :



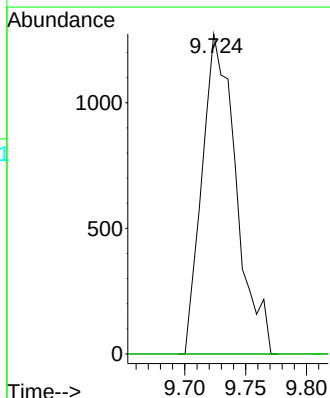
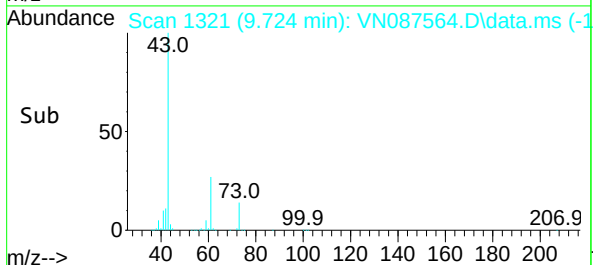
Tgt Ion: 43 Resp: 19789
Ion Ratio Lower Upper
43 100
61 18.0 19.8 29.8#
87 11.8 9.8 14.6

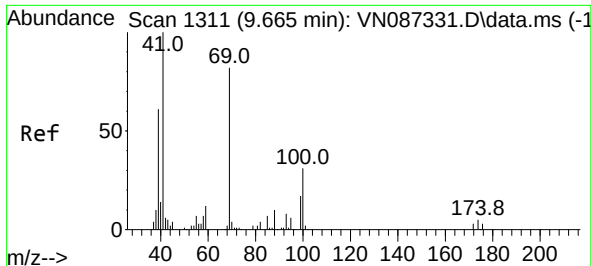


#45
1,2-Dichloropropane
Concen: 0.653 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.118 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36



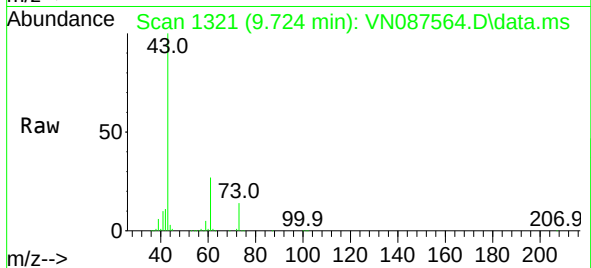
Tgt Ion: 63 Resp: 2478
Ion Ratio Lower Upper
63 100
65 0.0 27.0 40.4#



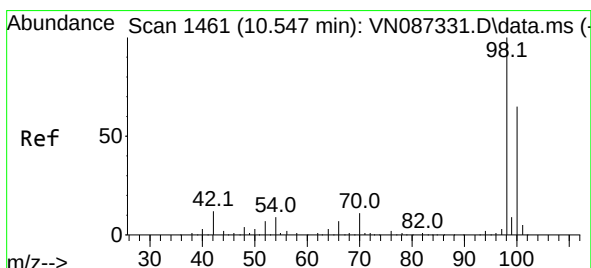
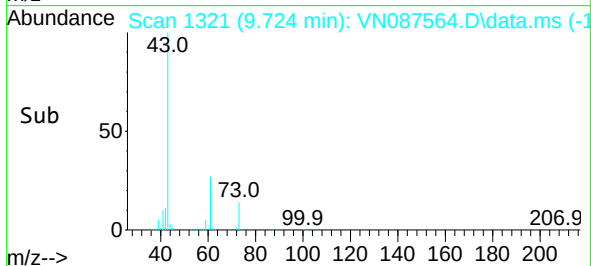
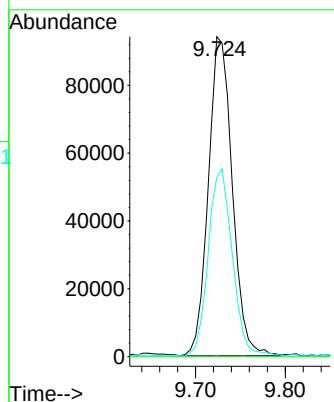


#48
Methyl methacrylate
Concen: 37.385 ug/l
RT: 9.724 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :

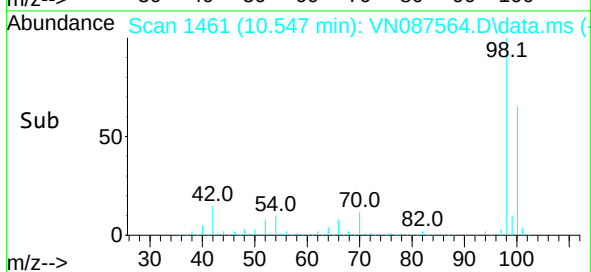
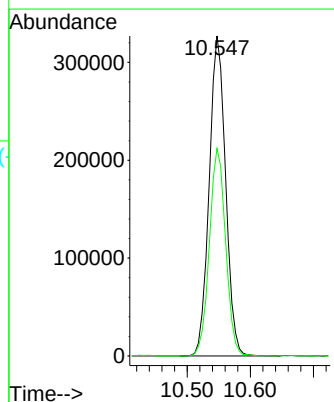
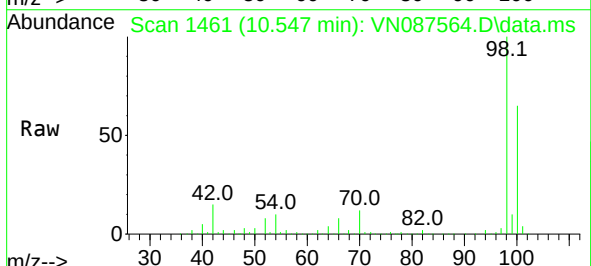


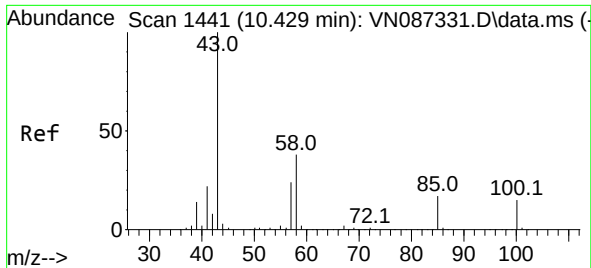
Tgt Ion: 41 Resp: 174472
Ion Ratio Lower Upper
41 100
69 0.0 64.1 96.1#
39 58.4 45.5 68.3



#50
Toluene-d8
Concen: 47.352 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 98 Resp: 591168
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1

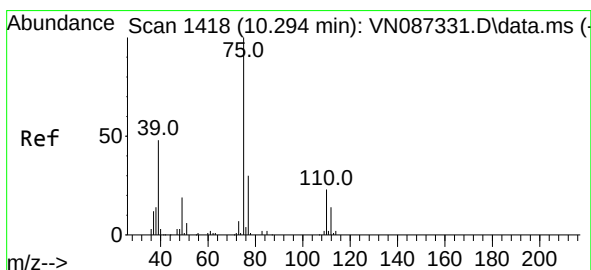
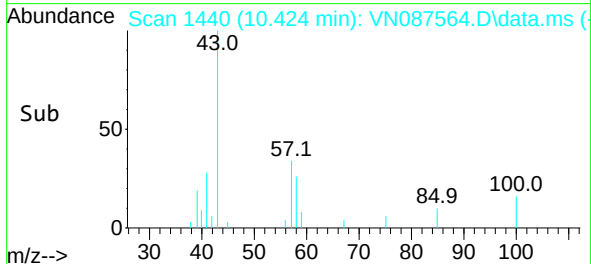
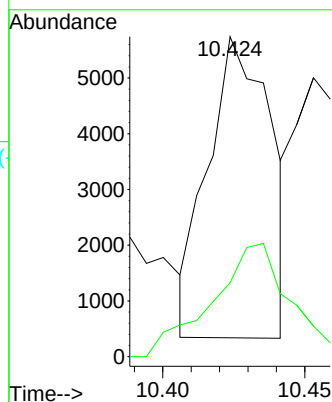
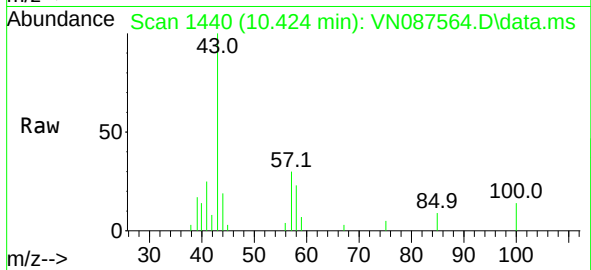




#51
4-Methyl-2-Pentanone
Concen: 1.273 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.005 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

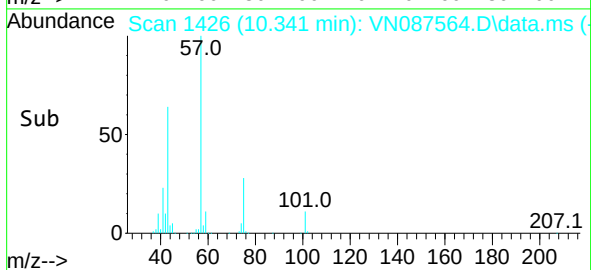
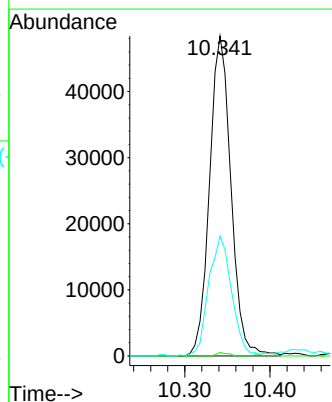
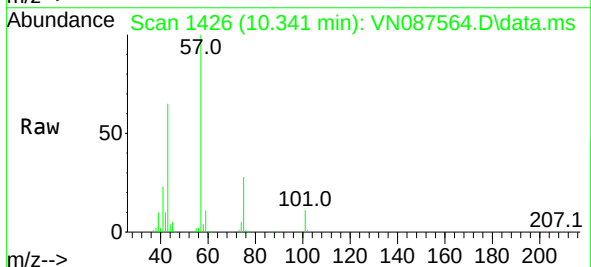
Instrument :
MSVOA_N
ClientSampleId :

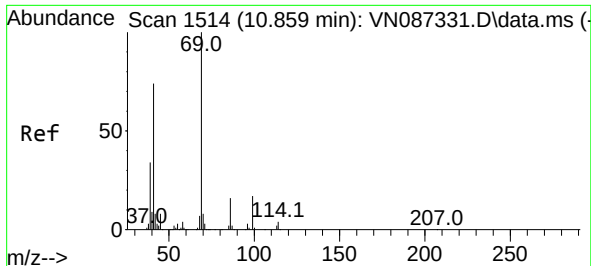
Tgt Ion: 43 Resp: 8344
Ion Ratio Lower Upper
43 100
58 45.7 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 14.116 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

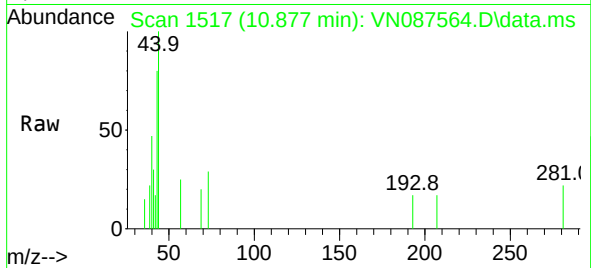
Tgt Ion: 75 Resp: 84506
Ion Ratio Lower Upper
75 100
77 1.1 24.2 36.2#
39 37.1 38.4 57.6#



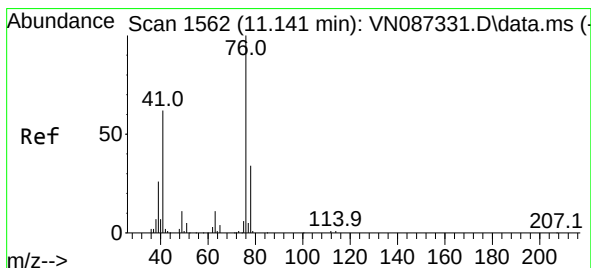
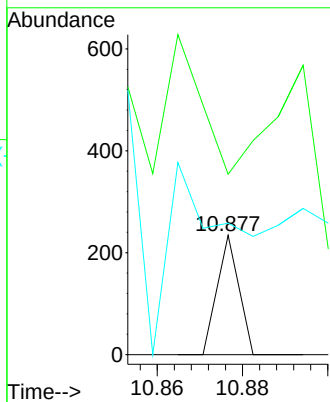
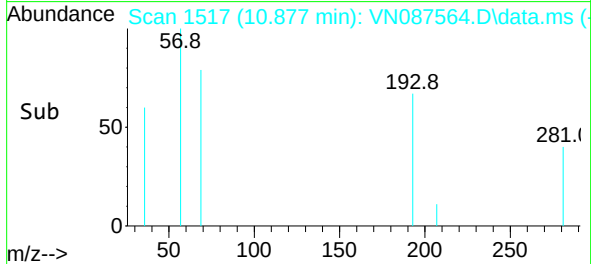


#56
Ethyl methacrylate
Concen: 0.649 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. 0.018 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :

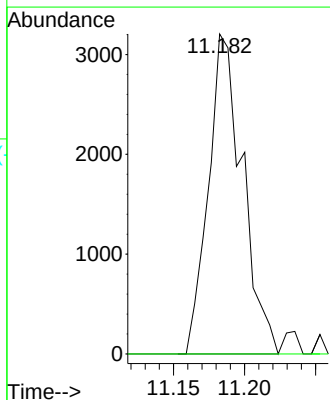
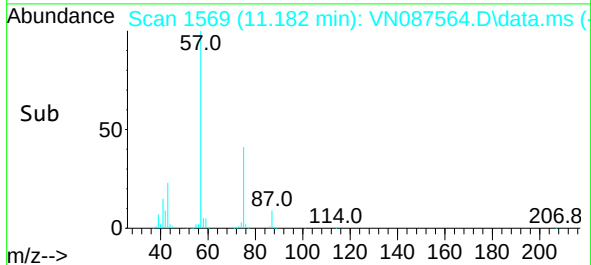
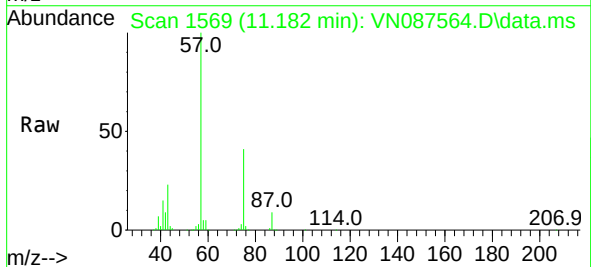


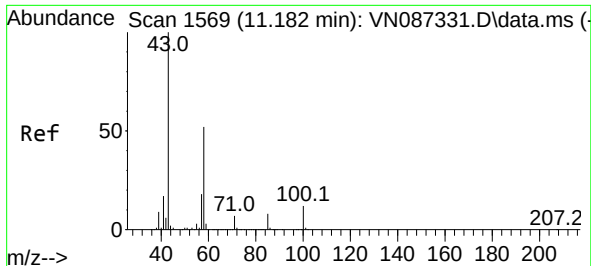
Tgt Ion: 69 Resp: 83
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#



#57
1,3-Dichloropropane
Concen: 0.843 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 76 Resp: 5360
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

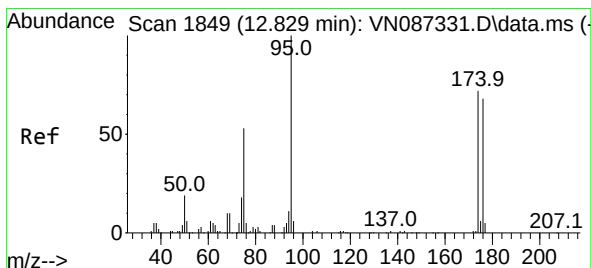
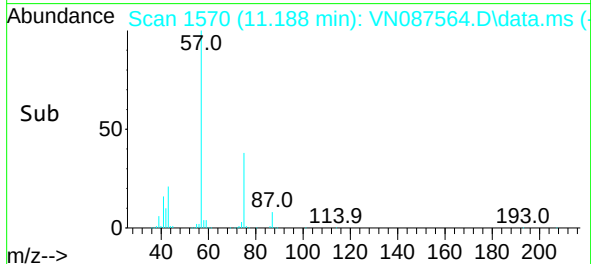
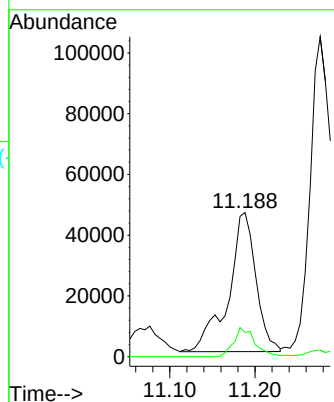
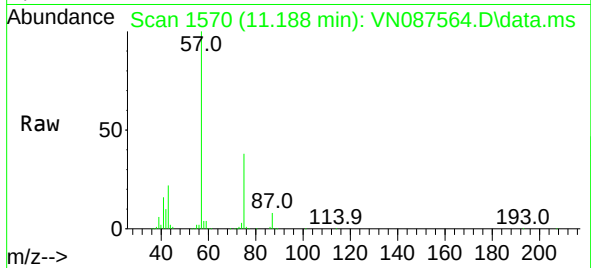




#59
2-Hexanone
Concen: 23.630 ug/l
RT: 11.188 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

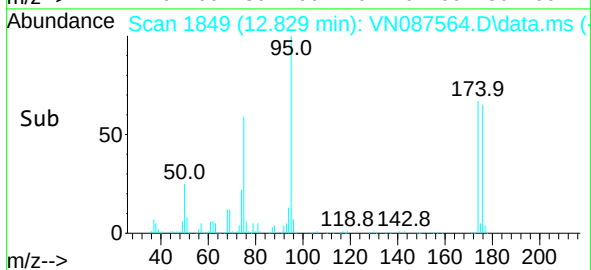
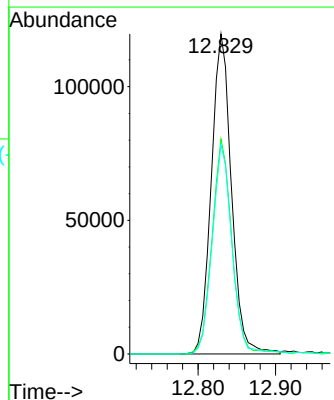
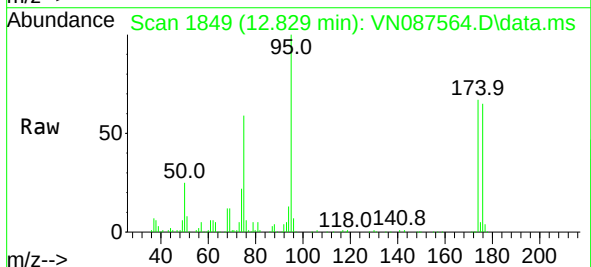
Instrument :
MSVOA_N
ClientSampleId :

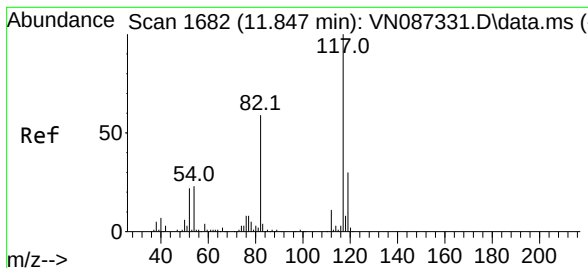
Tgt Ion: 43 Resp: 102794
Ion Ratio Lower Upper
43 100
58 16.3 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 46.820 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Tgt Ion: 95 Resp: 215954
Ion Ratio Lower Upper
95 100
174 66.1 0.0 149.4
176 64.1 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Instrument :

MSVOA_N

ClientSampleId :

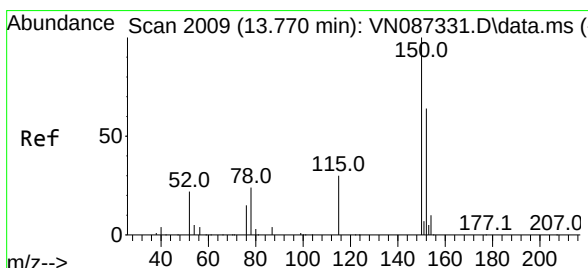
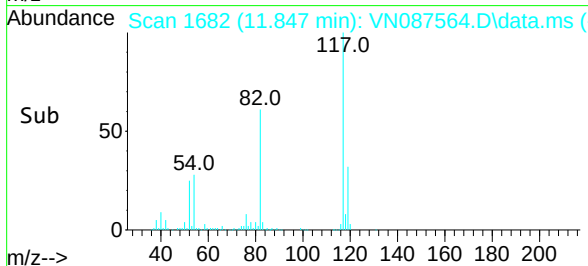
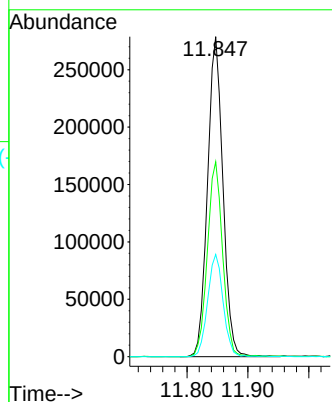
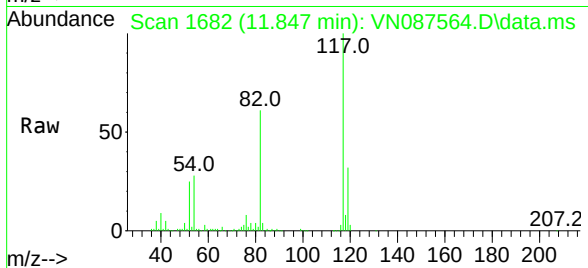
Tgt Ion:117 Resp: 489299

Ion Ratio Lower Upper

117 100

82 60.9 47.4 71.2

119 31.9 23.8 35.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

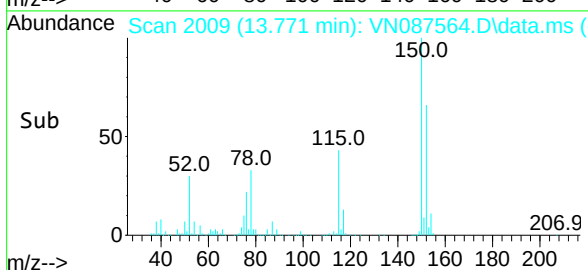
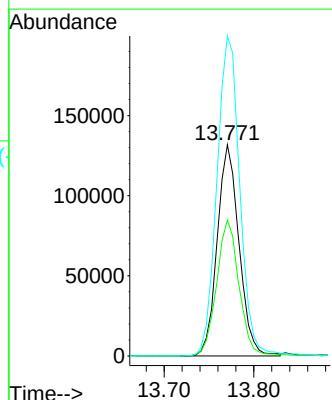
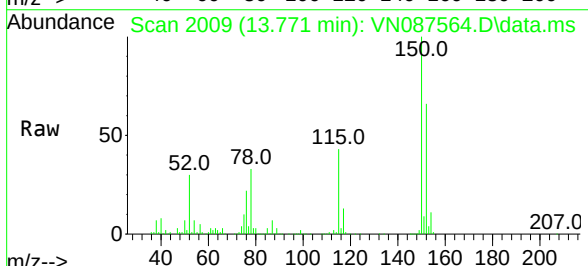
Tgt Ion:152 Resp: 222149

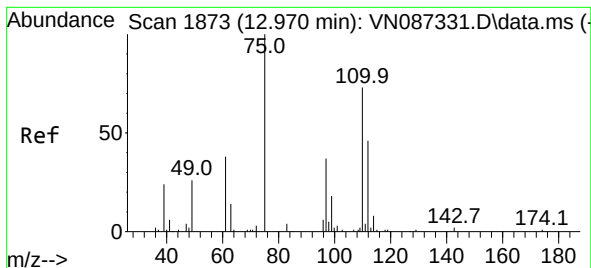
Ion Ratio Lower Upper

152 100

115 66.5 31.1 93.5

150 159.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 24.999 ug/l

RT: 12.829 min Scan# 11

Delta R.T. -0.141 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

Instrument :

MSVOA_N

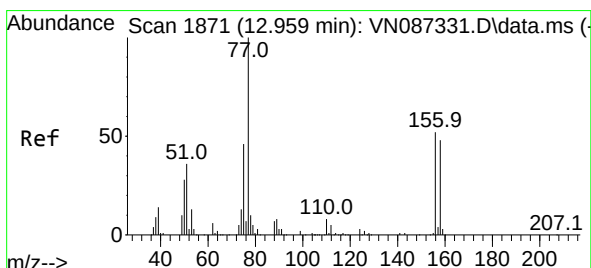
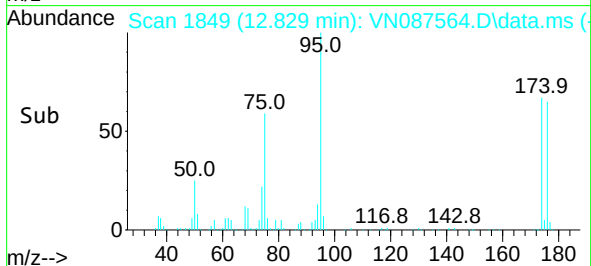
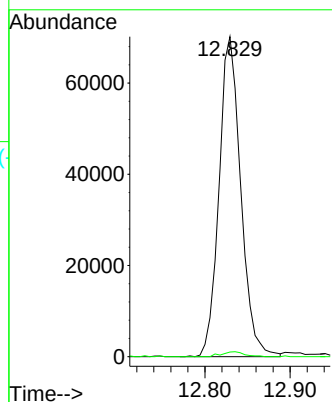
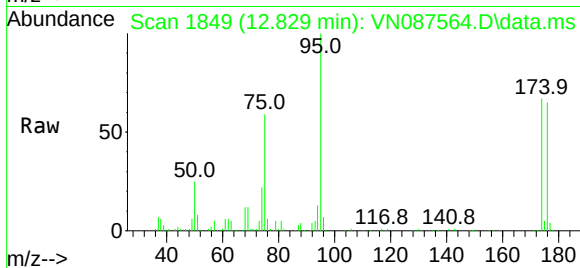
ClientSampleId :

Tgt Ion: 75 Resp: 124532

Ion Ratio Lower Upper

75 100

77 1.6 94.5 283.6#



#77

Bromobenzene

Concen: 0.692 ug/l

RT: 13.224 min Scan# 1916

Delta R.T. 0.265 min

Lab File: VN087564.D

Acq: 14 Aug 2025 14:36

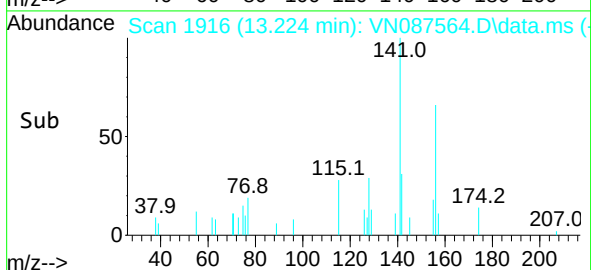
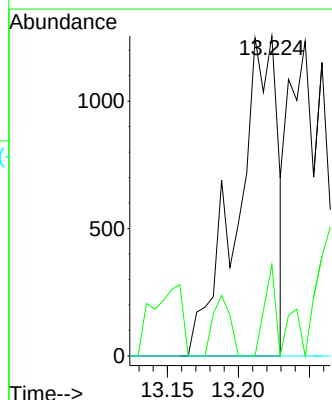
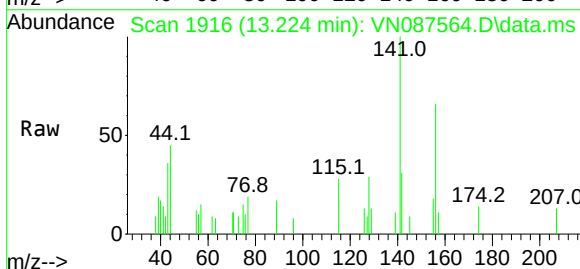
Tgt Ion:156 Resp: 2509

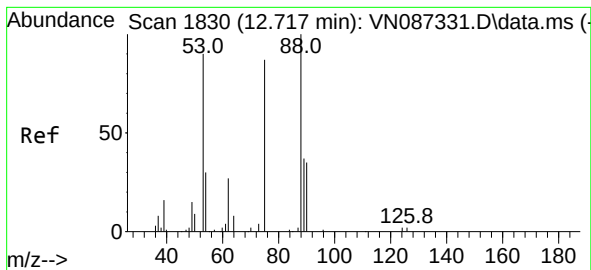
Ion Ratio Lower Upper

156 100

77 7.5 114.9 344.6#

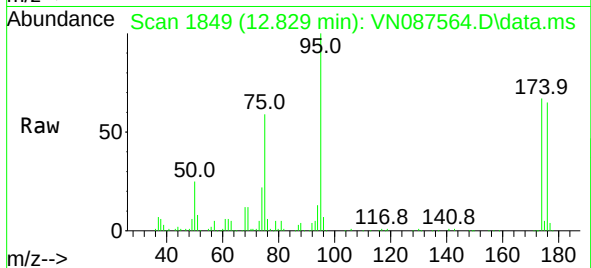
158 0.0 48.5 145.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 68.401 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087564.D
Acq: 14 Aug 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 124532
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.4 38.4 57.6#

