

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088262.D
 Acq On : 11 Nov 2025 16:49
 Operator : JC\MD
 Sample : Q3581-08RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200059

Quant Time: Nov 12 01:19:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

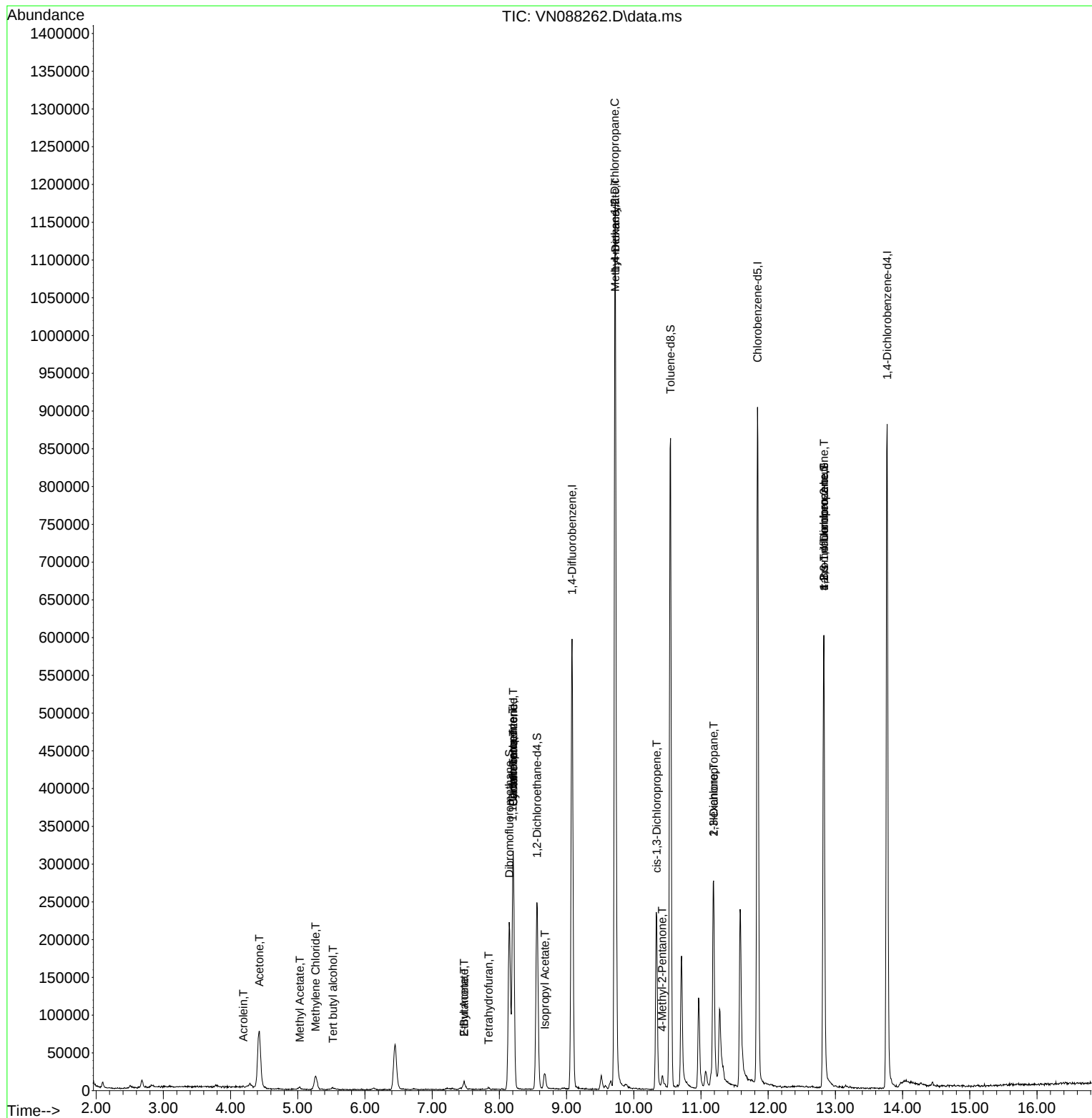
Internal Standards						
1) Pentafluorobenzene	8.206	168	208113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	482453	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	482500	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	229435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	210456	58.481	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.960%			
35) Dibromofluoromethane	8.147	113	156721	48.354	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.700%			
50) Toluene-d8	10.547	98	570314	45.666	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.340%			
62) 4-Bromofluorobenzene	12.829	95	222722	50.498	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.000%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	3742	6.036	ug/l #	89
13) Acrolein	4.189	56	426	0.611	ug/l	95
16) Acetone	4.430	43	158246	87.528	ug/l	99
18) Methyl Acetate	5.030	43	6711	1.813	ug/l #	78
20) Methylene Chloride	5.265	84	13757	4.533	ug/l #	93
25) 2-Butanone	7.477	43	15832	6.645	ug/l	97
29) Tetrahydrofuran	7.841	42	1354	0.872	ug/l #	80
31) Cyclohexane	8.206	56	6331	1.257	ug/l #	40
36) 1,1-Dichloropropene	8.200	75	22240	4.699	ug/l #	52
37) Ethyl Acetate	7.477	43	15832	2.592	ug/l #	72
38) Carbon Tetrachloride	8.206	117	25138	5.143	ug/l #	14
43) Isopropyl Acetate	8.677	43	26167	2.788	ug/l	93
45) 1,2-Dichloropropane	9.718	63	1293	0.355	ug/l #	43
48) Methyl methacrylate	9.724	41	119972	27.691	ug/l #	46
49) 1,4-Dioxane	9.729	88	136	2.524	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	9185	1.654	ug/l #	83
54) cis-1,3-Dichloropropene	10.341	75	41084	7.002	ug/l #	68
57) 1,3-Dichloropropane	11.188	76	3841	0.648	ug/l #	42
59) 2-Hexanone	11.188	43	59905	16.266	ug/l #	51
76) 1,2,3-Trichloropropane	12.829	75	128469	24.491	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	128469	68.318	ug/l #	1

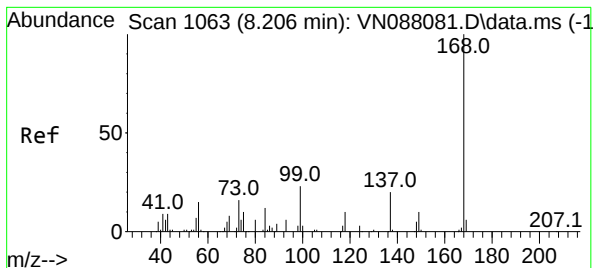
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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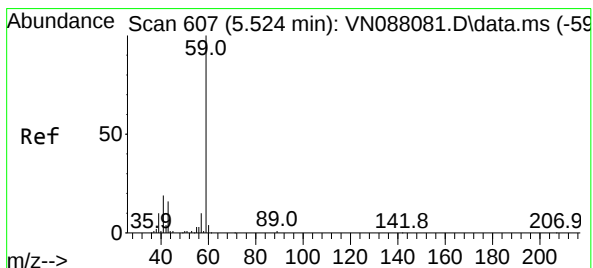
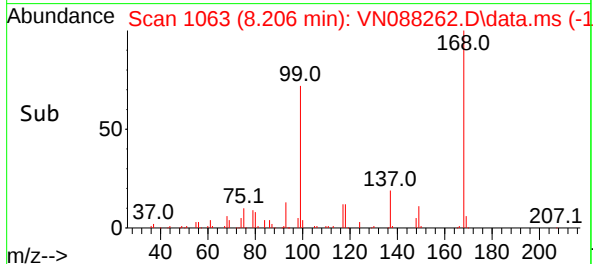
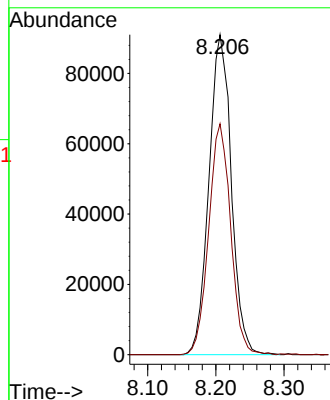
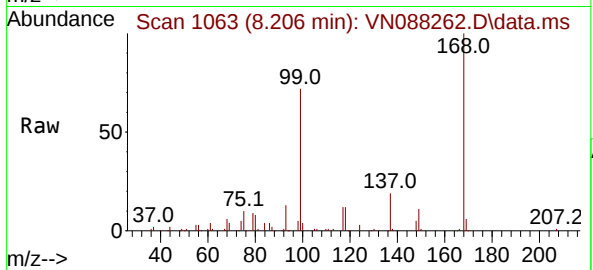




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

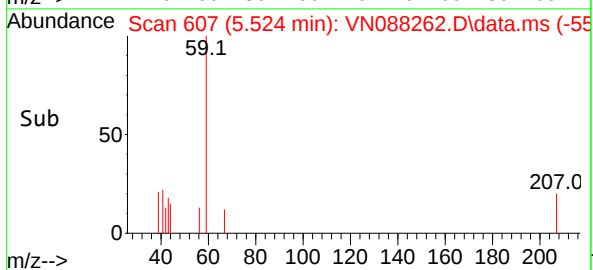
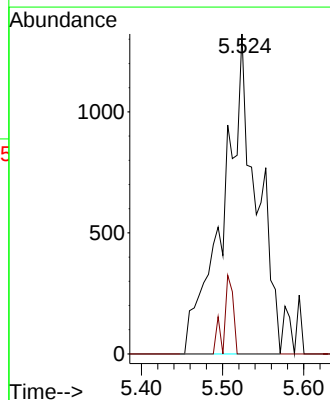
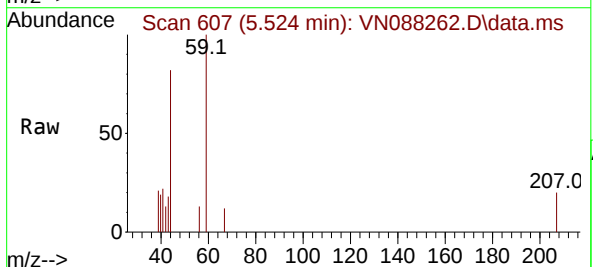
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

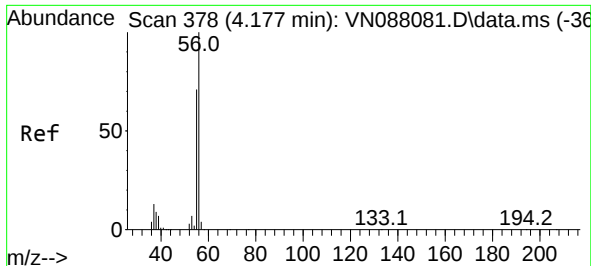
Tgt Ion:168 Resp: 208113
Ion Ratio Lower Upper
168 100
99 72.1 57.2 85.8



#11
Tert butyl alcohol
Concen: 6.036 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 59 Resp: 3742
Ion Ratio Lower Upper
59 100
57 6.9 9.0 13.4#

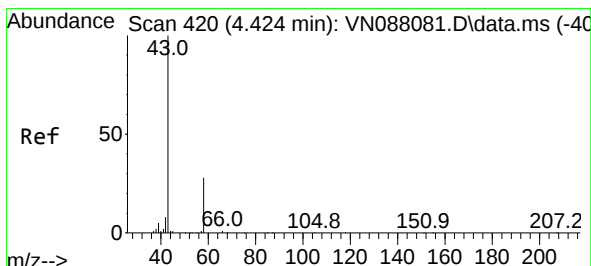
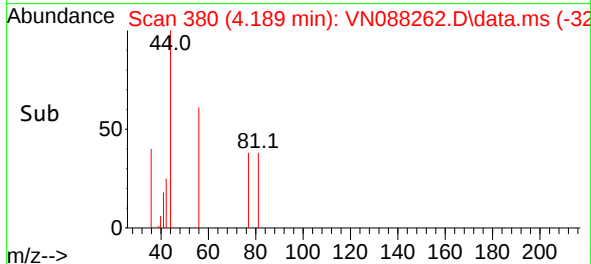
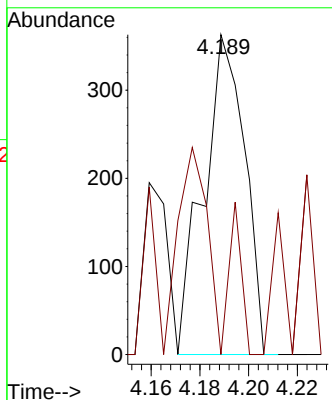
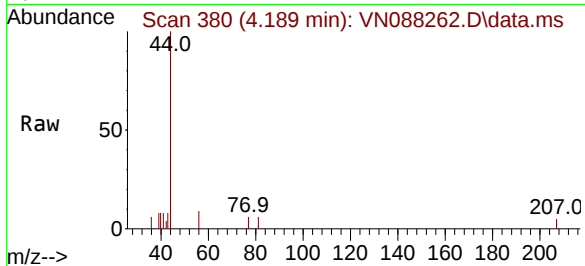




#13
Acrolein
Concen: 0.611 ug/l
RT: 4.189 min Scan# 378
Delta R.T. 0.018 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

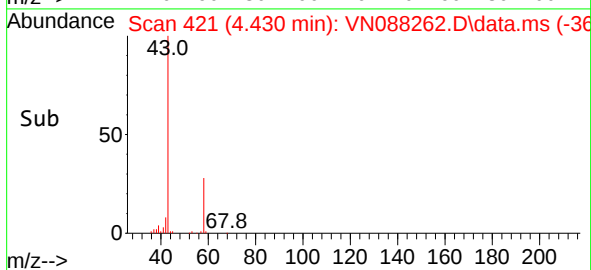
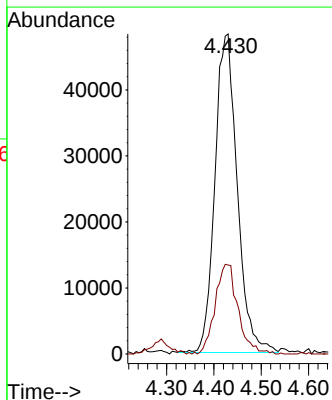
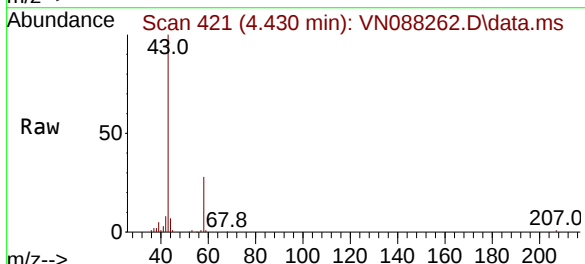
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

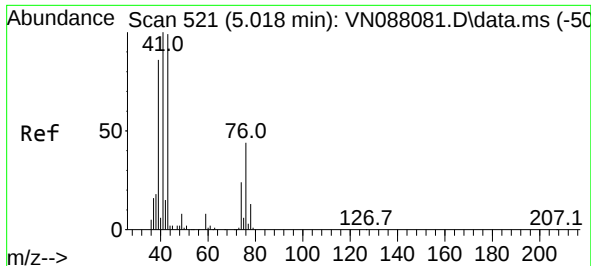
Tgt Ion: 56 Resp: 426
Ion Ratio Lower Upper
56 100
55 76.1 57.3 85.9



#16
Acetone
Concen: 87.528 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 43 Resp: 158246
Ion Ratio Lower Upper
43 100
58 27.9 22.6 33.8

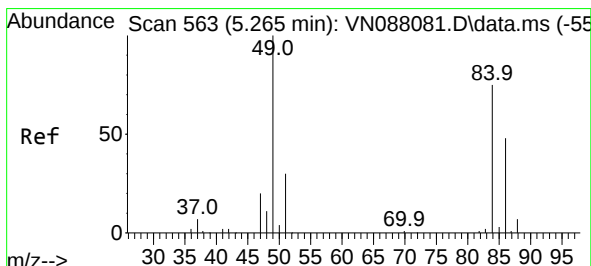
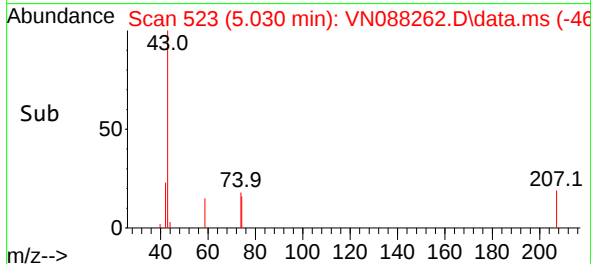
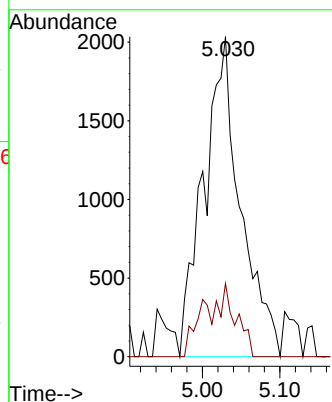
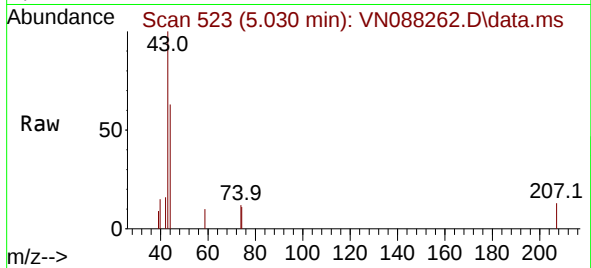




#18
Methyl Acetate
Concen: 1.813 ug/l
RT: 5.030 min Scan# 511
Delta R.T. 0.018 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

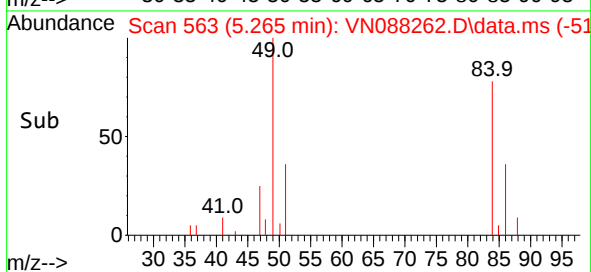
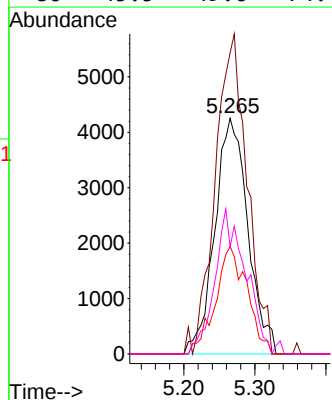
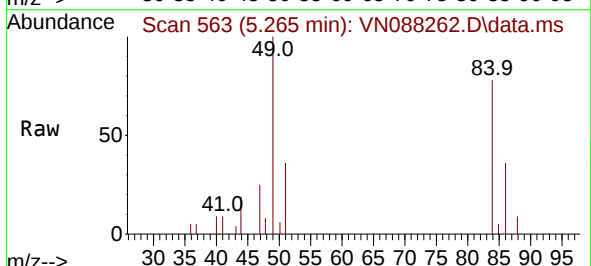
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

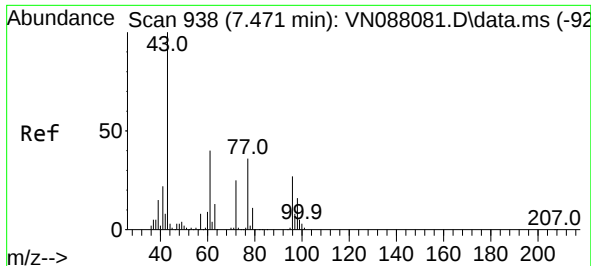
Tgt Ion: 43 Resp: 6711
Ion Ratio Lower Upper
43 100
74 11.4 17.6 26.4#



#20
Methylene Chloride
Concen: 4.533 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 84 Resp: 13757
Ion Ratio Lower Upper
84 100
49 127.8 103.4 155.2
51 45.6 33.8 50.8
86 45.5 49.6 74.4#

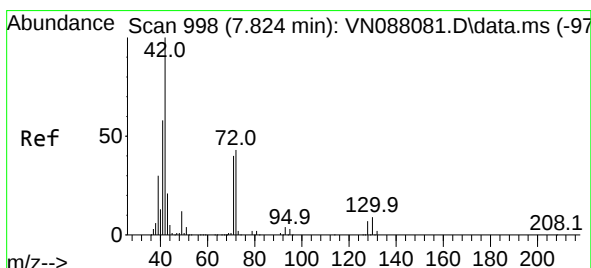
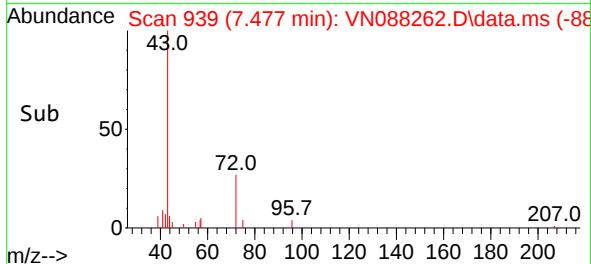
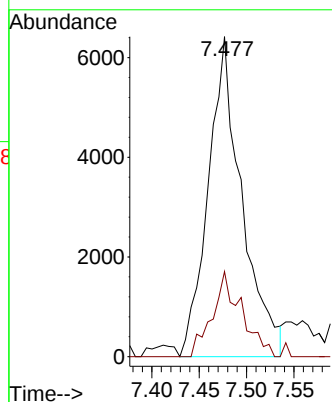
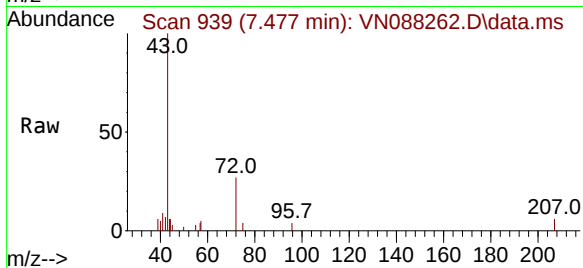




#25
2-Butanone
Concen: 6.645 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

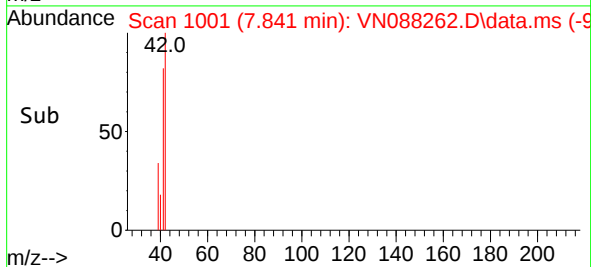
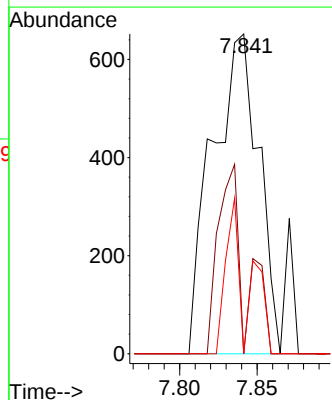
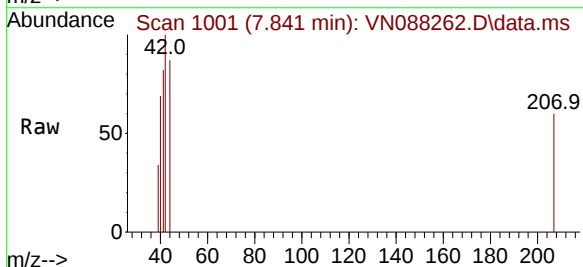
Instrument :
MSVOA_N
ClientSampleId :
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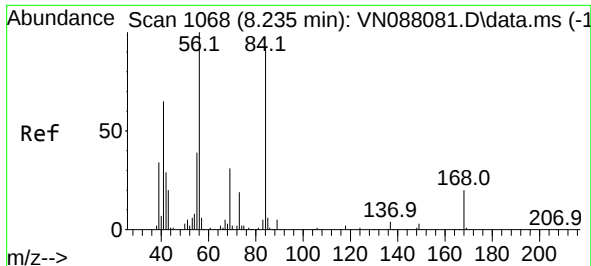
Tgt Ion: 43 Resp: 15832
Ion Ratio Lower Upper
43 100
72 26.6 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.872 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.018 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 42 Resp: 1354
Ion Ratio Lower Upper
42 100
72 34.9 33.7 50.5
71 22.5 31.9 47.9#

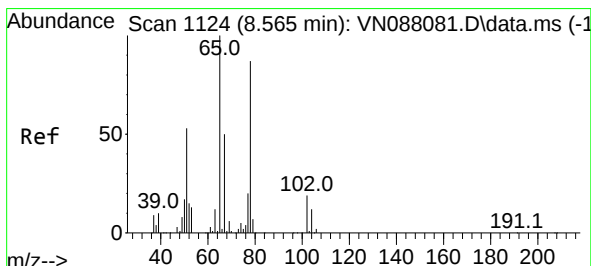
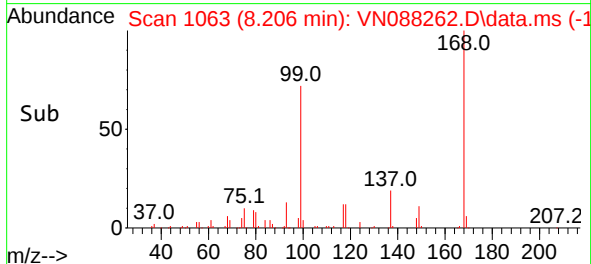
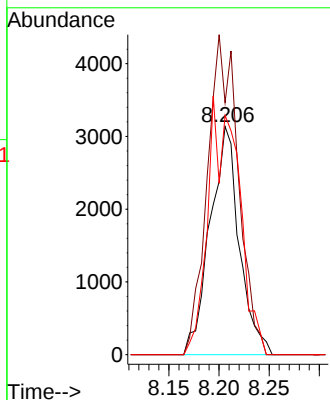
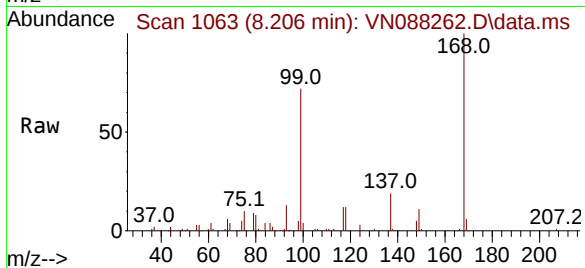




#31
Cyclohexane
Concen: 1.257 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

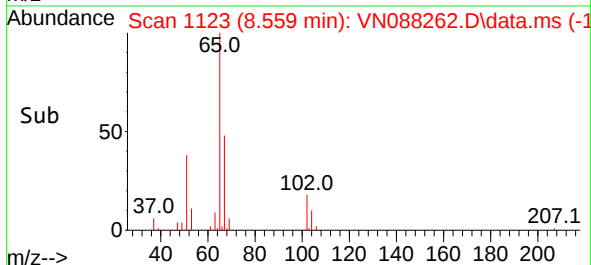
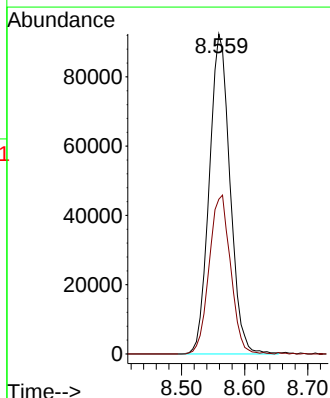
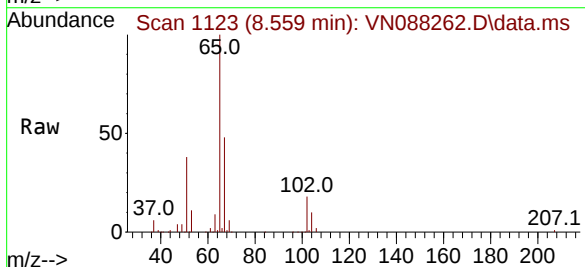
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

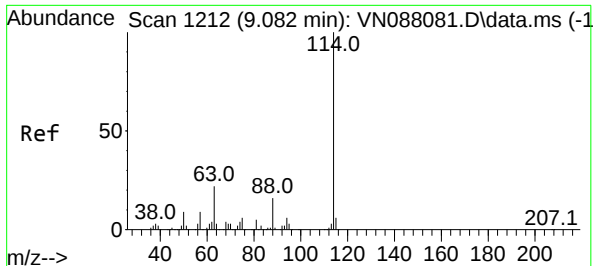
Tgt Ion: 56 Resp: 6331
Ion Ratio Lower Upper
56 100
69 110.5 23.7 35.5#
84 104.8 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 58.481 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 65 Resp: 210456
Ion Ratio Lower Upper
65 100
67 51.3 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

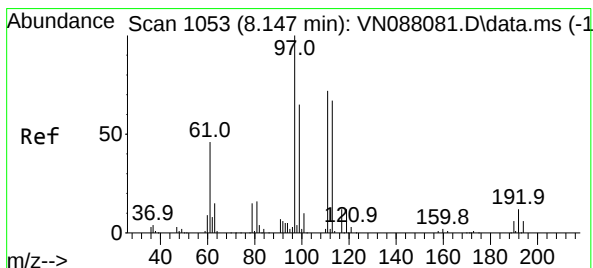
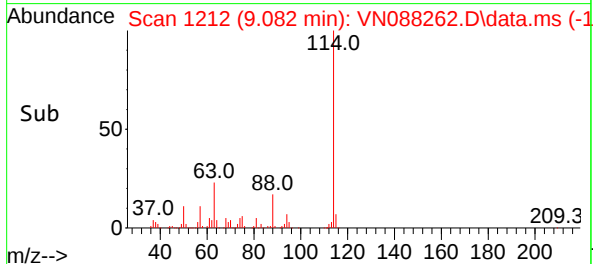
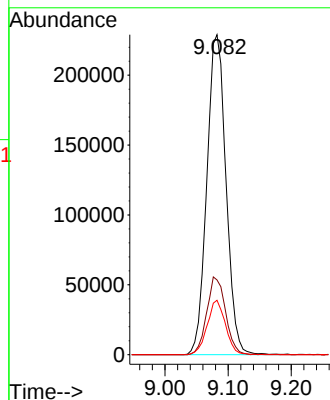
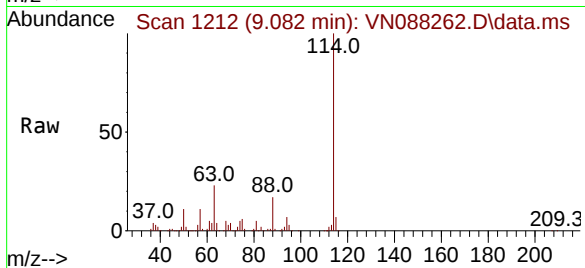
Tgt Ion:114 Resp: 482453

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.2

88 17.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.354 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

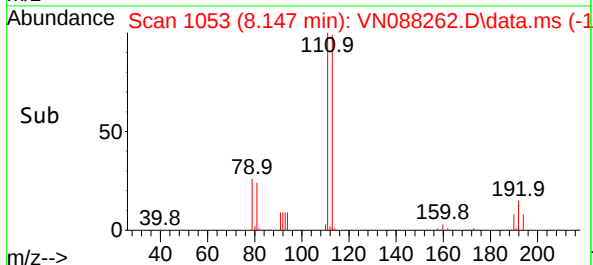
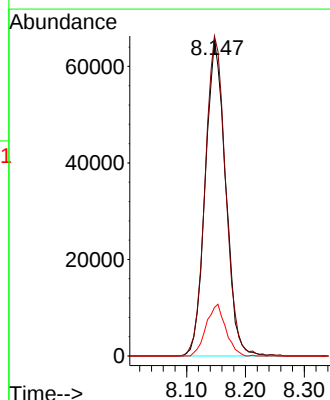
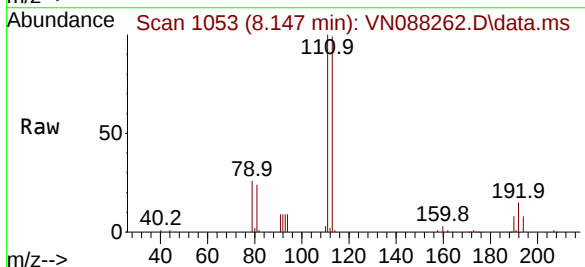
Tgt Ion:113 Resp: 156721

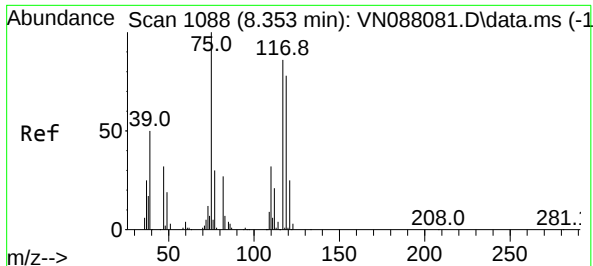
Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

192 15.8 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.699 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

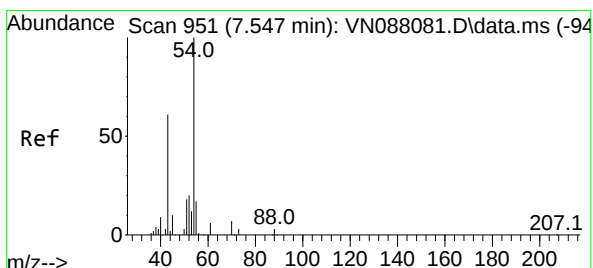
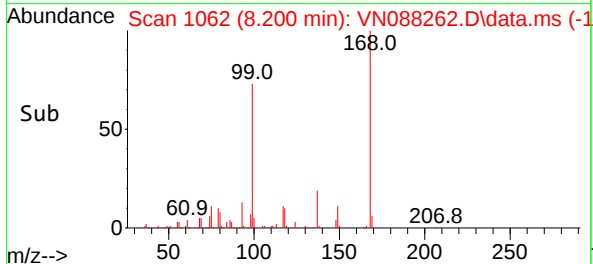
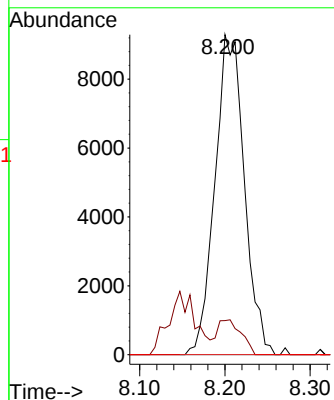
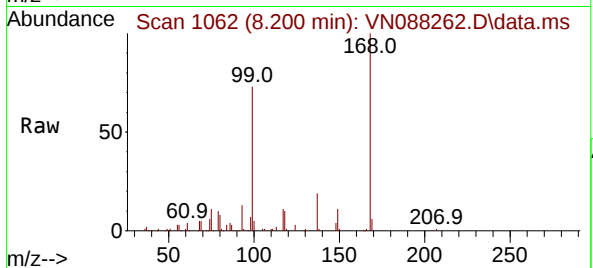
Tgt Ion: 75 Resp: 22240

Ion Ratio Lower Upper

75 100

110 9.0 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.592 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.071 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

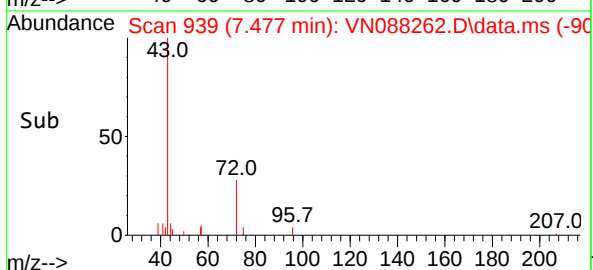
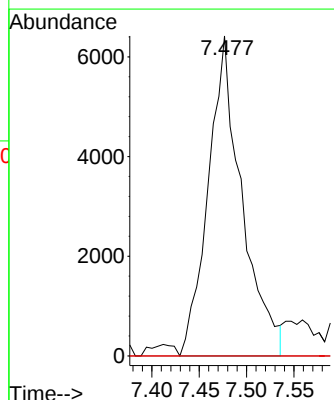
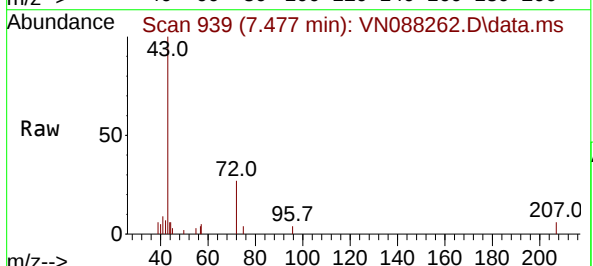
Tgt Ion: 43 Resp: 15832

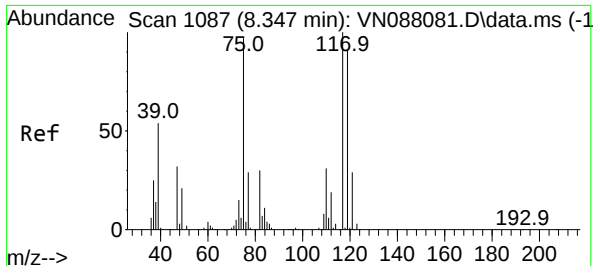
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#

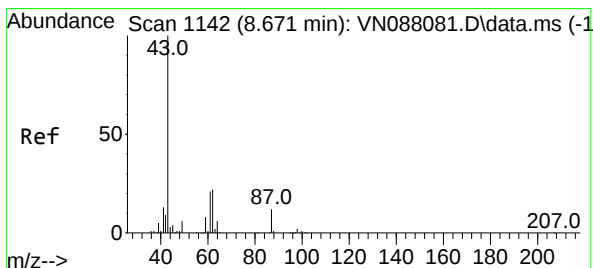
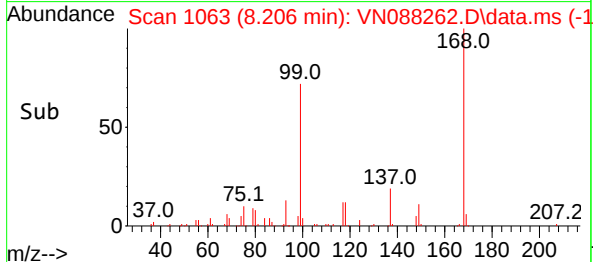
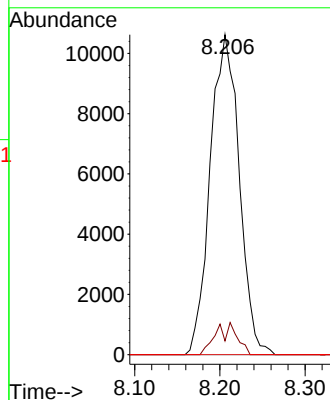
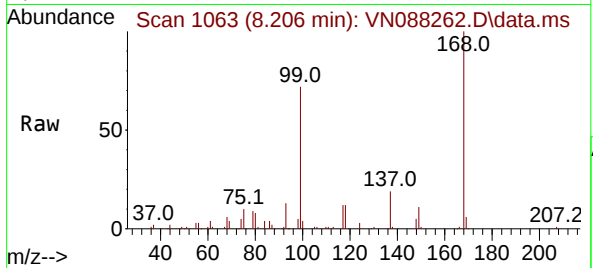




#38
Carbon Tetrachloride
Concen: 5.143 ug/l
RT: 8.206 min Scan# 1103
Delta R.T. -0.135 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

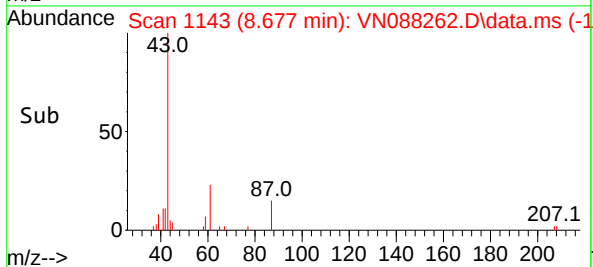
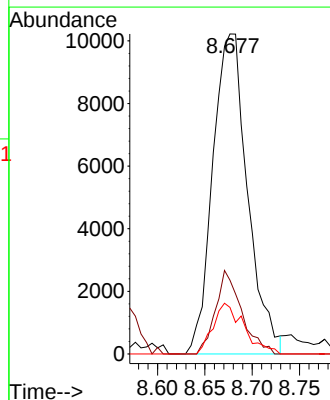
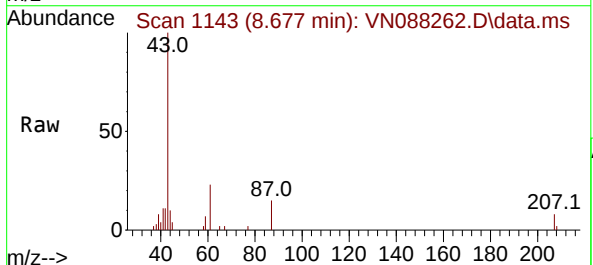
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

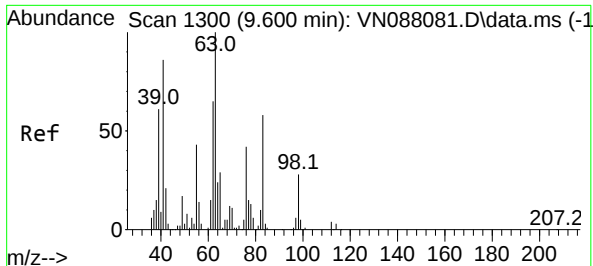
Tgt Ion:117 Resp: 25138
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.788 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 43 Resp: 26167
Ion Ratio Lower Upper
43 100
61 19.6 18.8 28.2
87 14.0 9.6 14.4

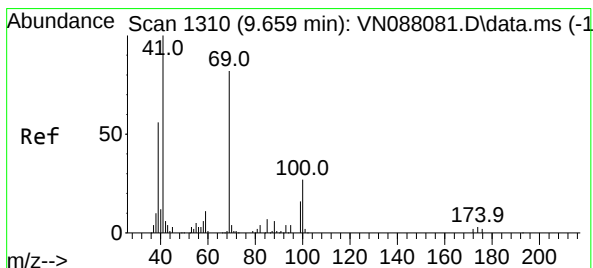
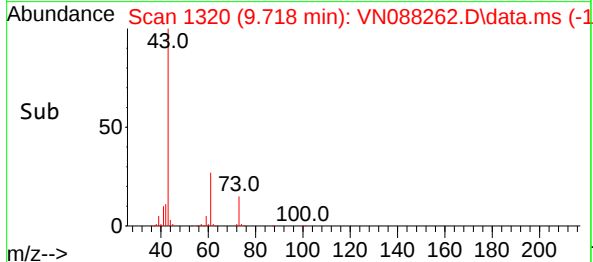
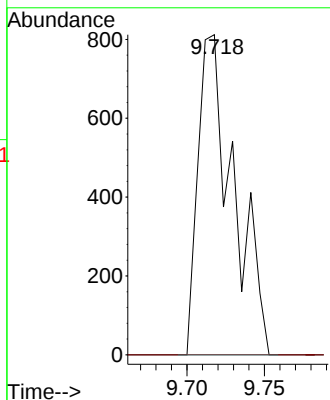
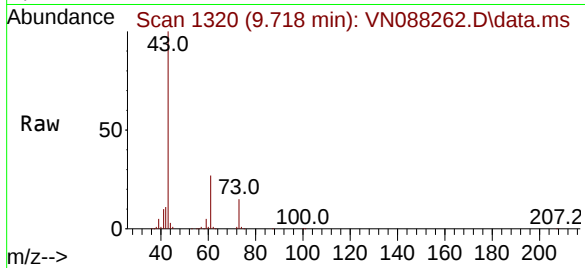




#45
1,2-Dichloropropane
Concen: 0.355 ug/l
RT: 9.718 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

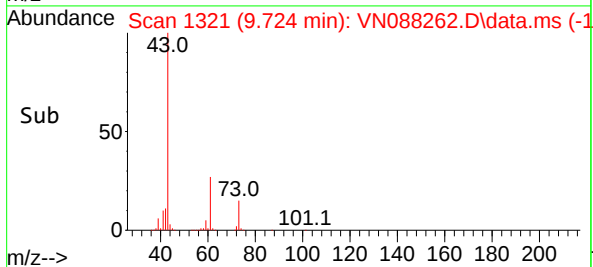
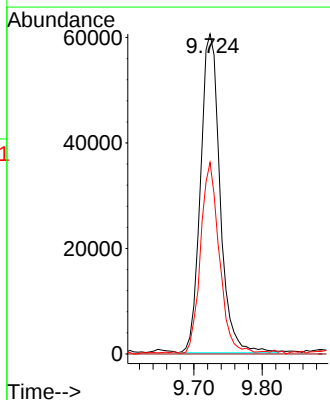
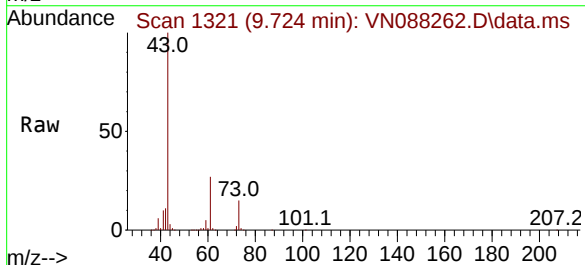
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

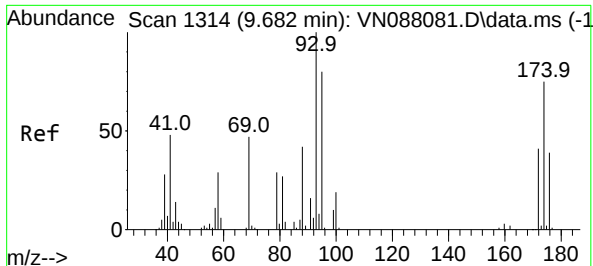
Tgt Ion: 63 Resp: 1293
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#



#48
Methyl methacrylate
Concen: 27.691 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 41 Resp: 119972
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 57.2 52.9 79.3





#49

1,4-Dioxane

Concen: 2.524 ug/l

RT: 9.729 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

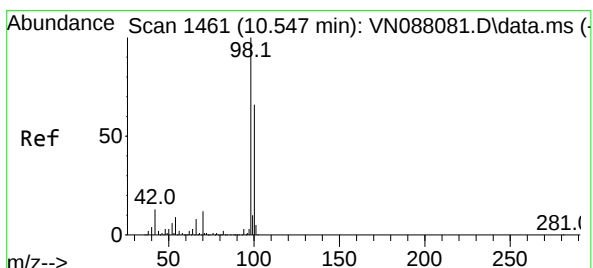
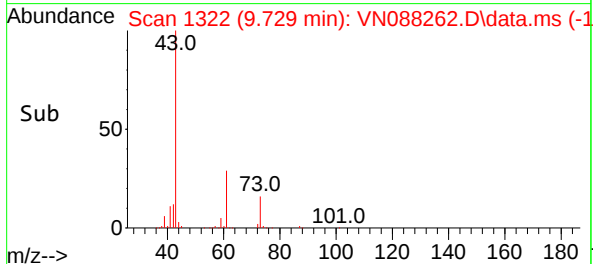
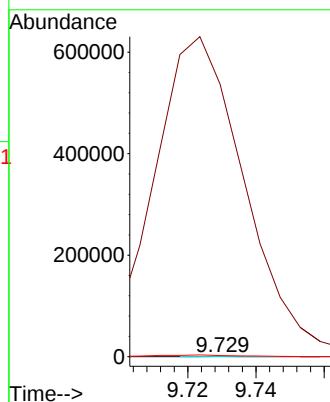
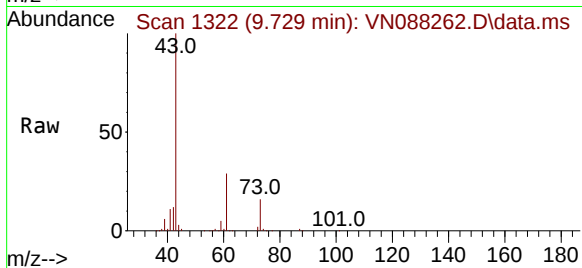
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 880631.6 0.0 0.0#

58 4504.4 57.9 86.9#



#50

Toluene-d8

Concen: 45.666 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088262.D

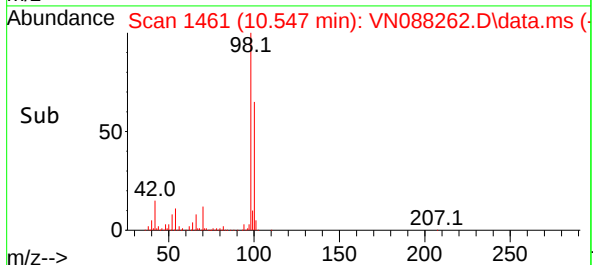
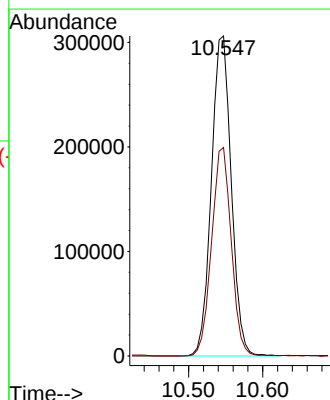
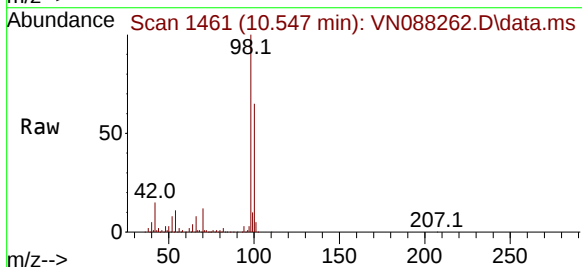
Acq: 11 Nov 2025 16:49

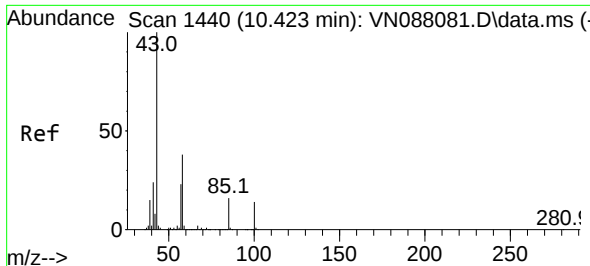
Tgt Ion: 98 Resp: 570314

Ion Ratio Lower Upper

98 100

100 64.3 52.8 79.2

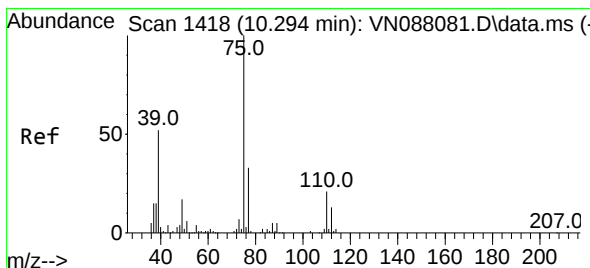
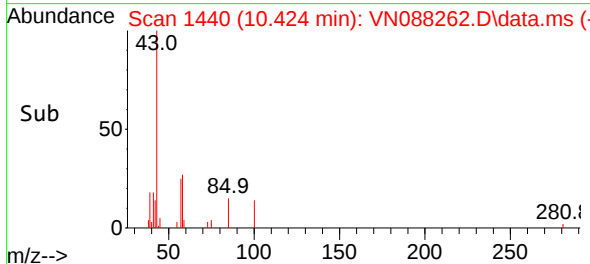
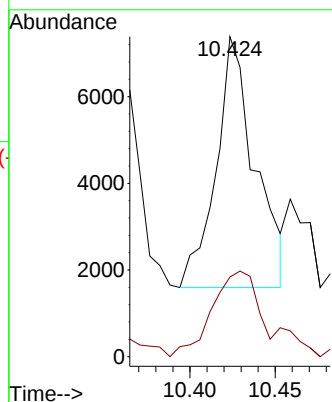
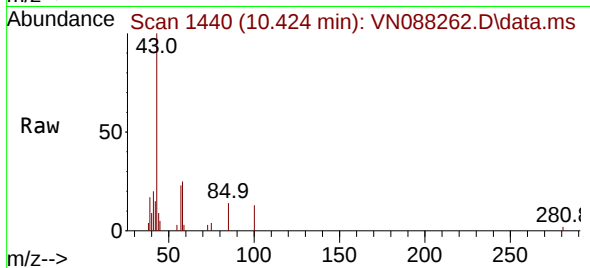




#51
4-Methyl-2-Pentanone
Concen: 1.654 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

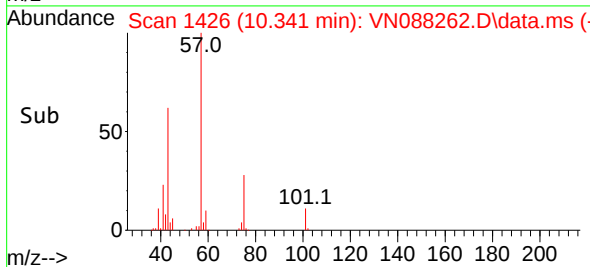
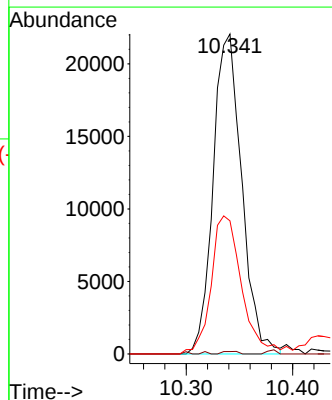
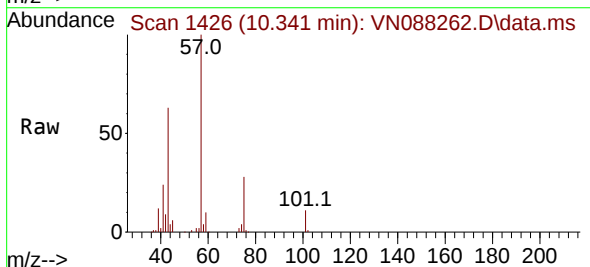
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

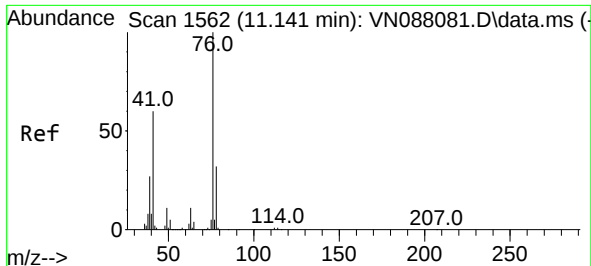
Tgt Ion: 43 Resp: 9185
Ion Ratio Lower Upper
43 100
58 47.3 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 7.002 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 75 Resp: 41084
Ion Ratio Lower Upper
75 100
77 0.8 24.6 37.0#
39 41.6 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.648 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

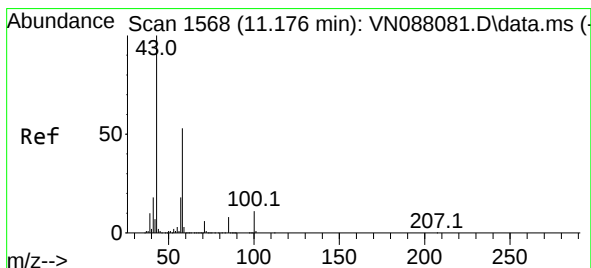
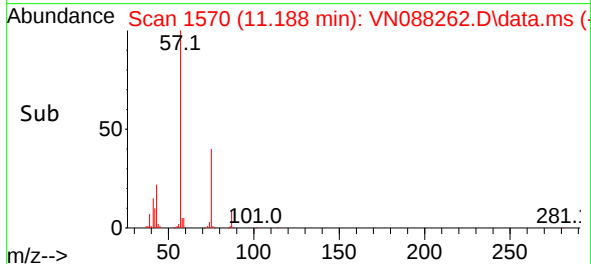
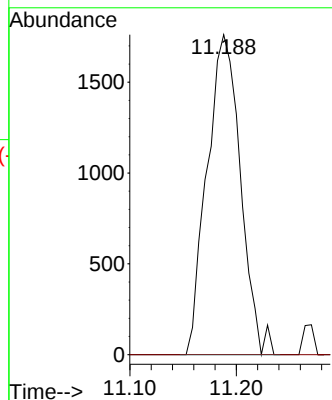
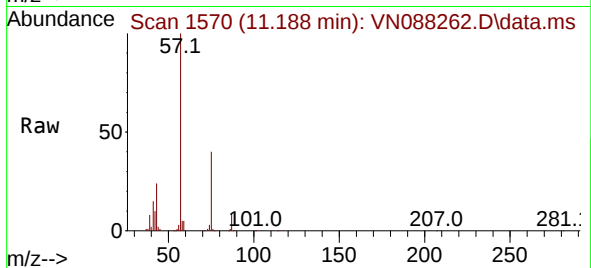
RBR200059

Tgt Ion: 76 Resp: 3841

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 16.266 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088262.D

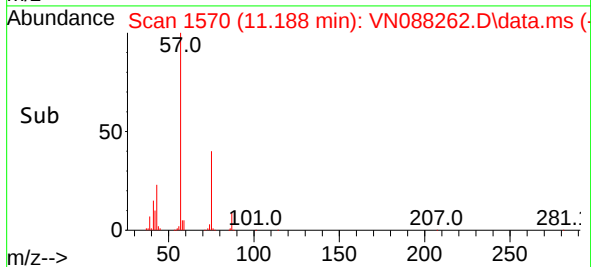
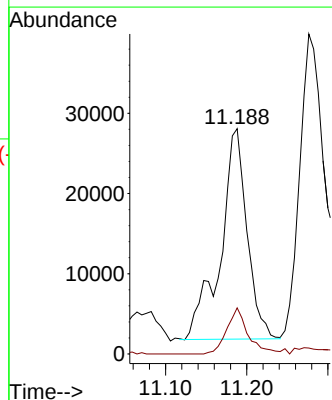
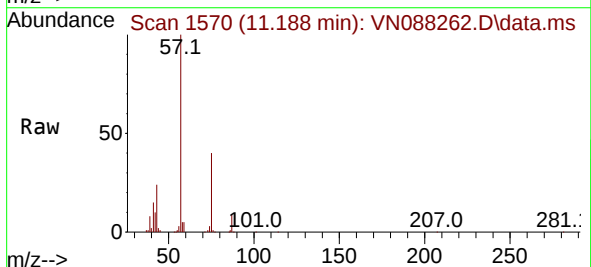
Acq: 11 Nov 2025 16:49

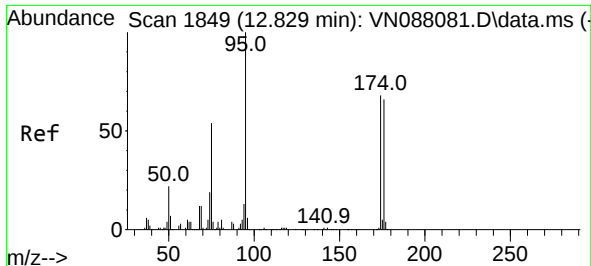
Tgt Ion: 43 Resp: 59905

Ion Ratio Lower Upper

43 100

58 17.5 25.9 77.8#

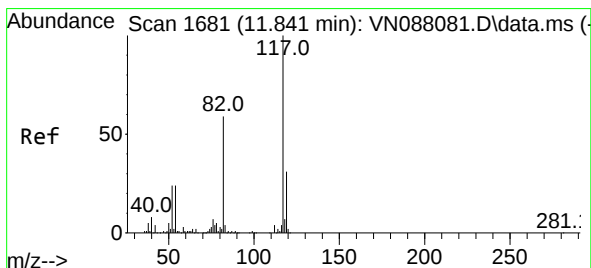
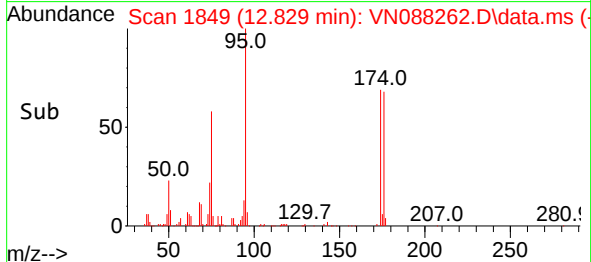
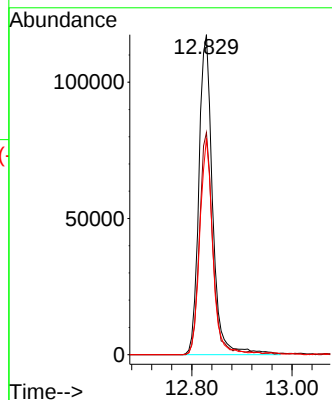
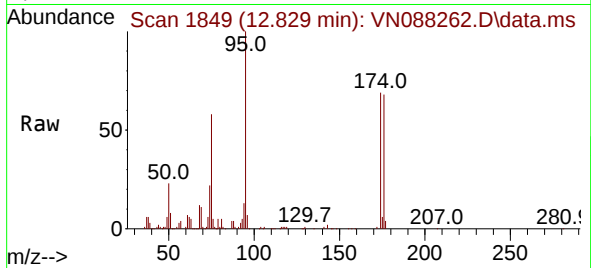




#62
4-Bromofluorobenzene
Concen: 50.498 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

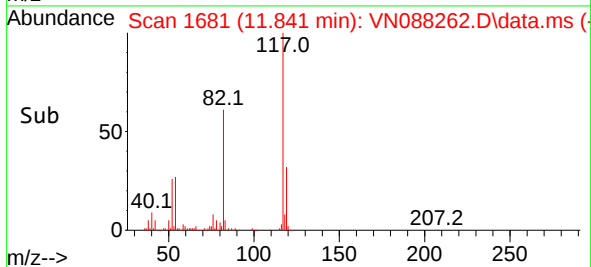
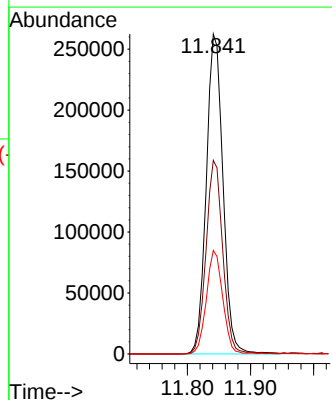
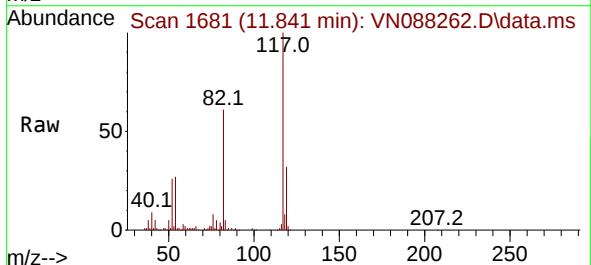
Instrument :
MSVOA_N
ClientSampleId :
RBR200059

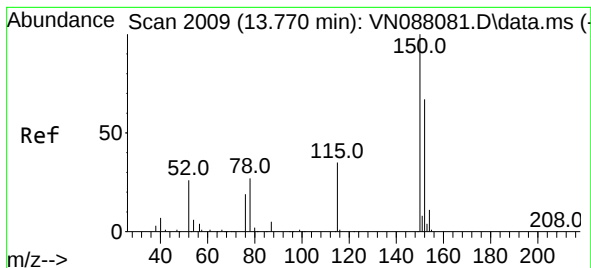
Tgt Ion: 95 Resp: 222722
Ion Ratio Lower Upper
95 100
174 66.8 0.0 138.4
176 64.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088262.D
Acq: 11 Nov 2025 16:49

Tgt Ion: 117 Resp: 482500
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.2
119 32.4 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088262.D

Acq: 11 Nov 2025 16:49

Instrument :

MSVOA_N

ClientSampleId :

RBR200059

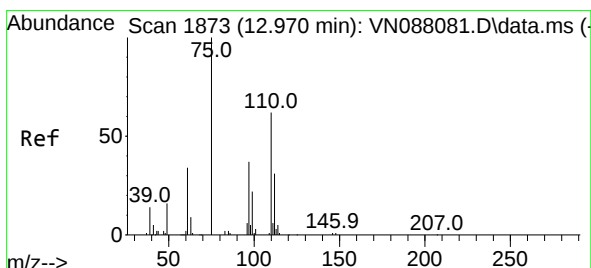
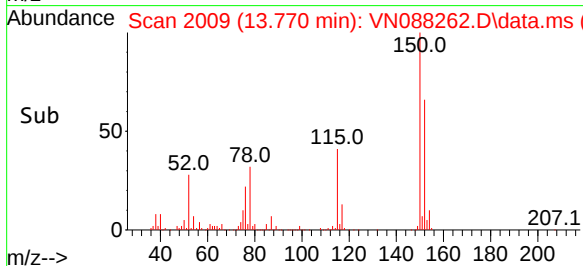
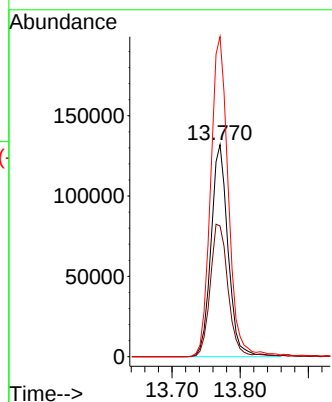
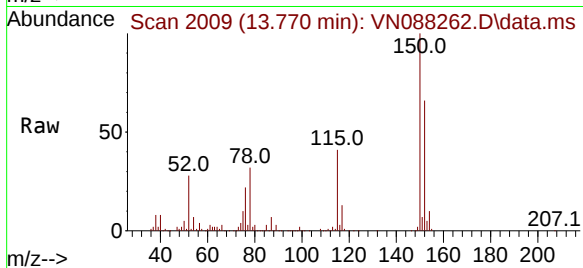
Tgt Ion:152 Resp: 229435

Ion Ratio Lower Upper

152 100

115 66.4 32.3 96.8

150 157.3 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 24.491 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088262.D

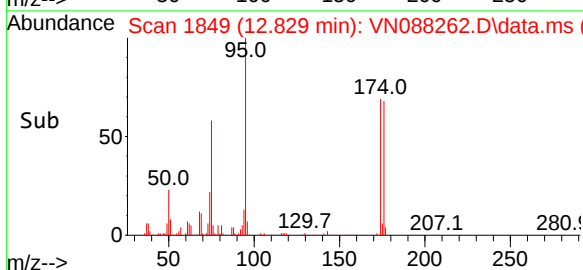
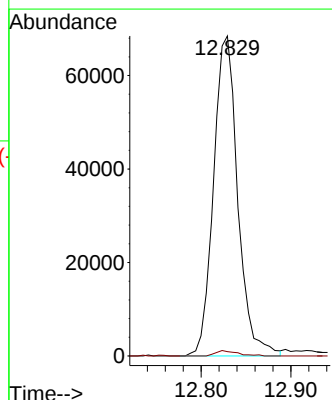
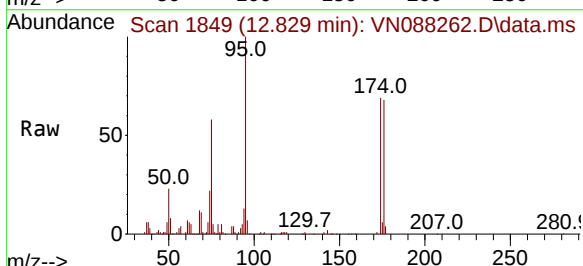
Acq: 11 Nov 2025 16:49

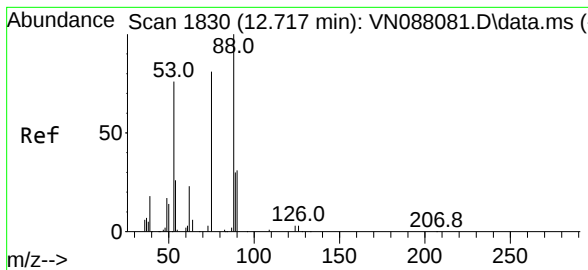
Tgt Ion: 75 Resp: 128469

Ion Ratio Lower Upper

75 100

77 1.5 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.318 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088262.D
 Acq: 11 Nov 2025 16:49

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200059

Tgt Ion: 75 Resp: 128469
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.5 35.6 53.4#

