

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087835.D
 Acq On : 15 Sep 2025 14:20
 Operator : JC\MD
 Sample : Q3092-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 279182

Quant Time: Sep 16 01:37:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

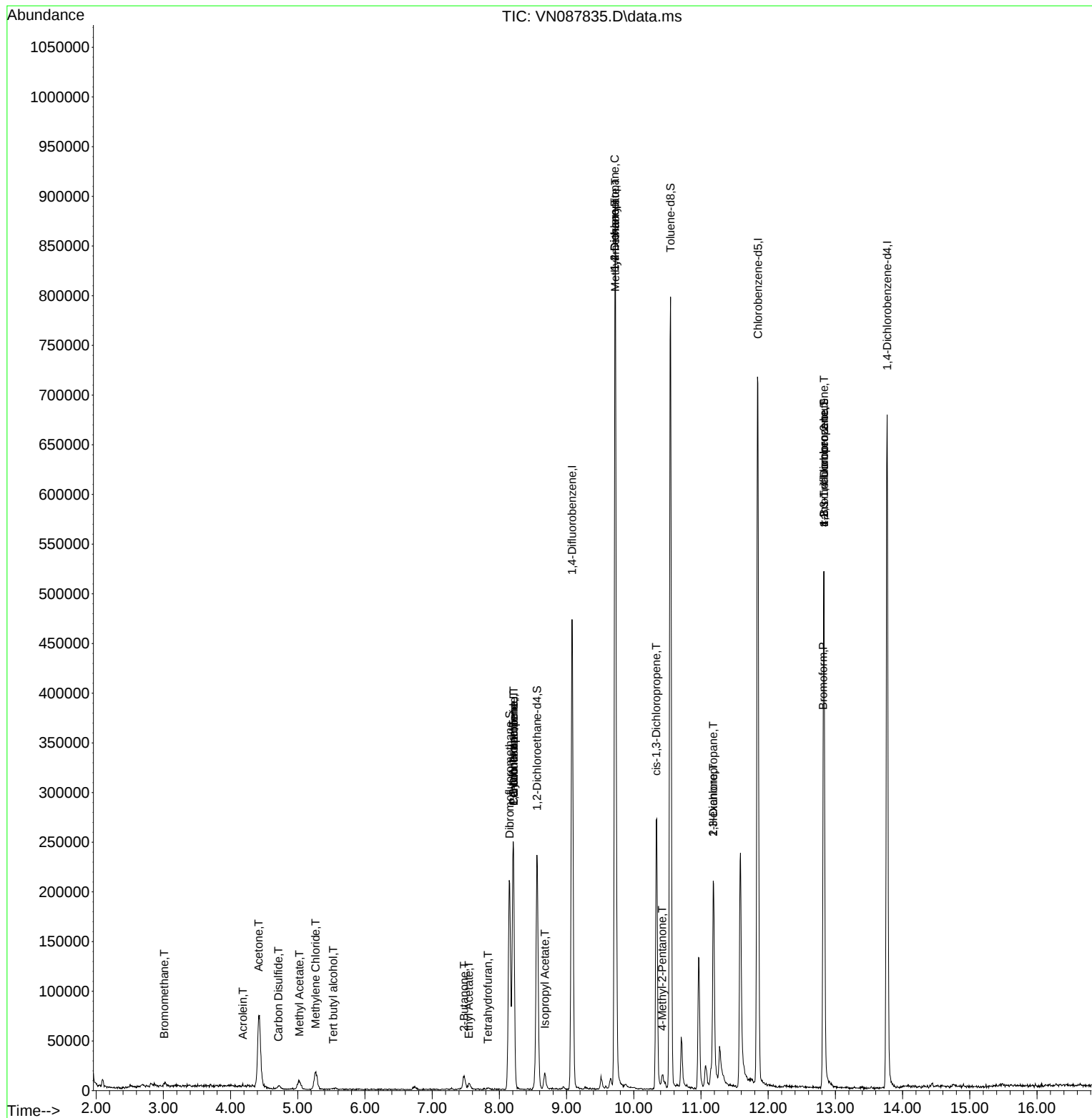
Internal Standards						
1) Pentafluorobenzene	8.212	168	170877	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	400335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	402622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	189807	54.214	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.420%	
35) Dibromofluoromethane	8.153	113	148459	51.363	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.720%	
50) Toluene-d8	10.547	98	537759	49.708	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.420%	
62) 4-Bromofluorobenzene	12.829	95	177931	46.248	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 92.500%	
Target Compounds						
					Qvalue	
5) Bromomethane	3.012	94	370	0.248	ug/l #	3
11) Tert butyl alcohol	5.530	59	670	1.102	ug/l #	71
13) Acrolein	4.183	56	312	0.418	ug/l #	36
16) Acetone	4.418	43	143219	75.146	ug/l	98
17) Carbon Disulfide	4.712	76	1535	0.226	ug/l #	74
18) Methyl Acetate	5.024	43	19489	4.884	ug/l #	79
20) Methylene Chloride	5.265	84	9185	2.144	ug/l #	83
25) 2-Butanone	7.477	43	22921	9.141	ug/l #	90
29) Tetrahydrofuran	7.830	42	1117	0.692	ug/l #	64
31) Cyclohexane	8.206	56	5425	1.232	ug/l #	21
36) 1,1-Dichloropropene	8.212	75	16255	3.666	ug/l #	52
37) Ethyl Acetate	7.547	43	9818	1.620	ug/l #	72
38) Carbon Tetrachloride	8.212	117	19913	4.548	ug/l #	17
43) Isopropyl Acetate	8.677	43	19452	2.056	ug/l #	91
45) 1,2-Dichloropropane	9.718	63	1353	0.377	ug/l #	43
48) Methyl methacrylate	9.724	41	87664	19.591	ug/l #	46
49) 1,4-Dioxane	9.718	88	69	1.190	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	8709	1.526	ug/l	98
54) cis-1,3-Dichloropropene	10.335	75	48191	8.576	ug/l #	65
57) 1,3-Dichloropropane	11.182	76	2568	0.445	ug/l #	42
59) 2-Hexanone	11.182	43	35816	9.929	ug/l #	57
71) Bromoform	12.818	173	893	0.350	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	99003	23.109	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	99003	61.177	ug/l #	1

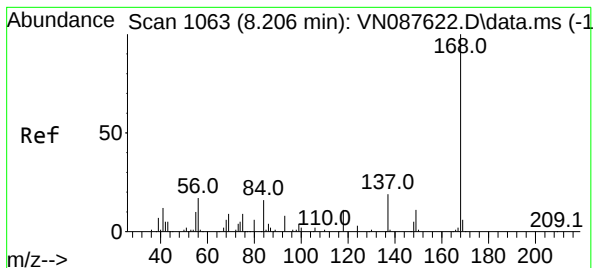
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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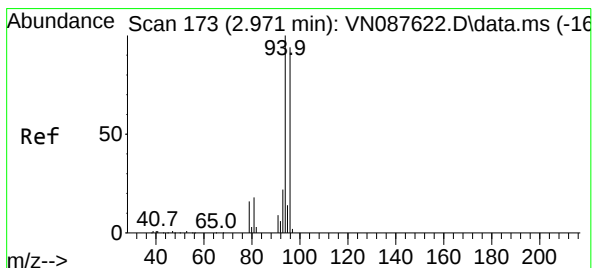
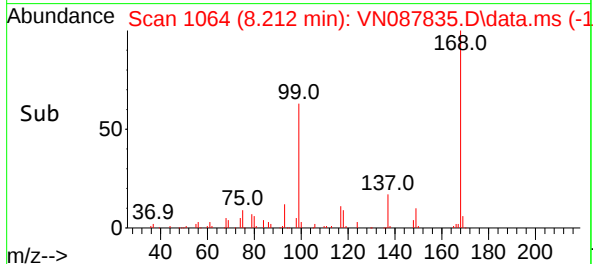
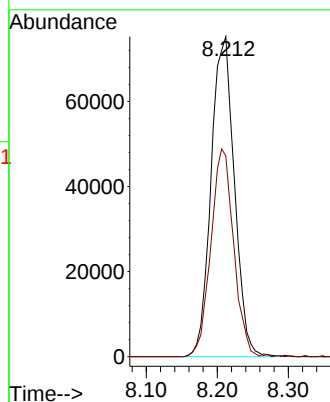
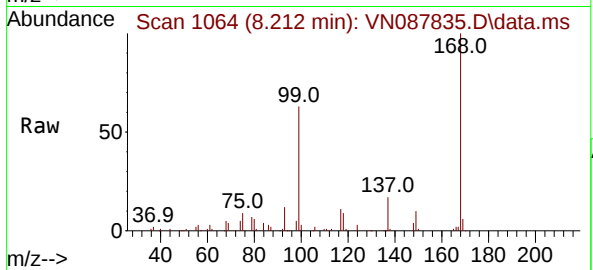




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

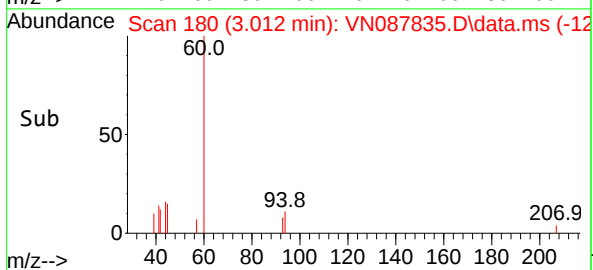
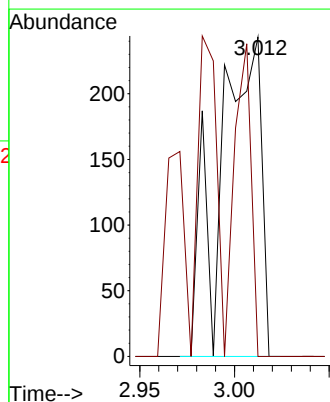
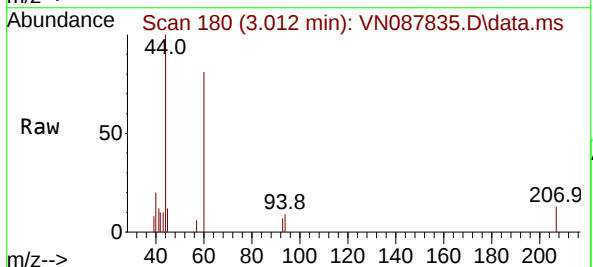
Instrument :
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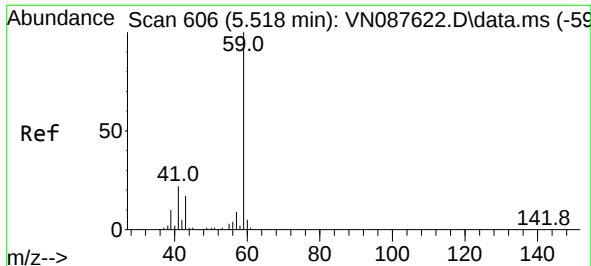
Tgt Ion:168 Resp: 170877
Ion Ratio Lower Upper
168 100
99 62.8 57.2 85.8



#5
Bromomethane
Concen: 0.248 ug/l
RT: 3.012 min Scan# 180
Delta R.T. 0.041 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 94 Resp: 370
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#

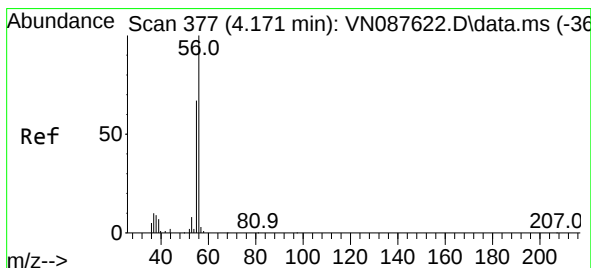
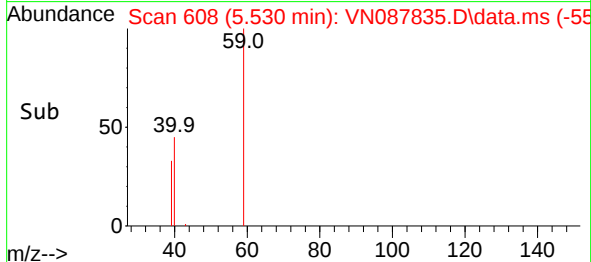
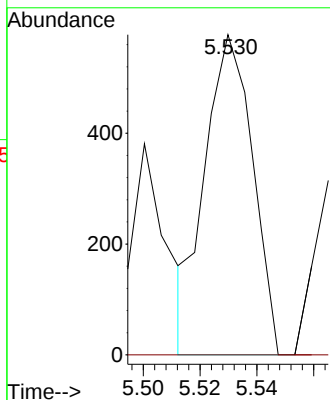
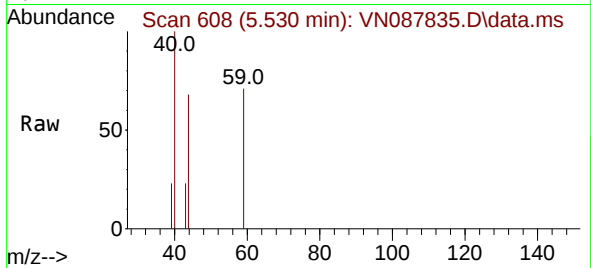




#11
Tert butyl alcohol
Concen: 1.102 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

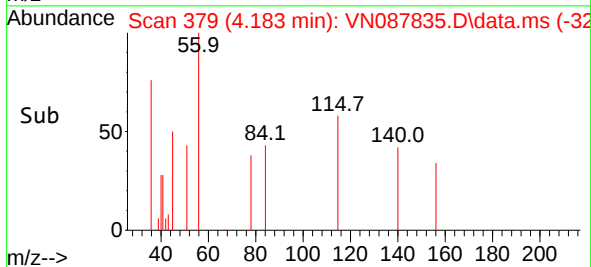
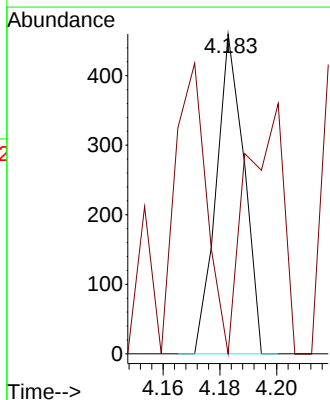
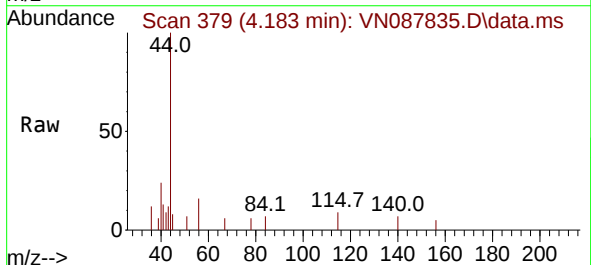
Instrument :
MSVOA_N
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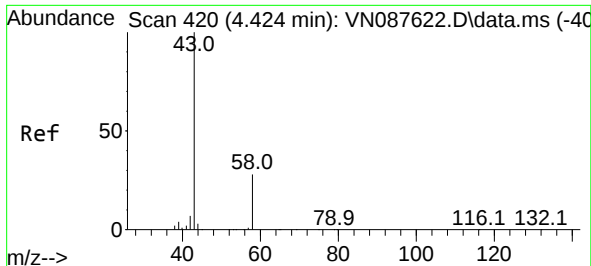
Tgt Ion: 59 Resp: 670
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.418 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 56 Resp: 312
Ion Ratio Lower Upper
56 100
55 125.0 57.3 85.9#

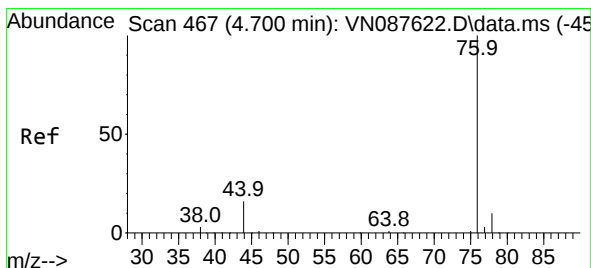
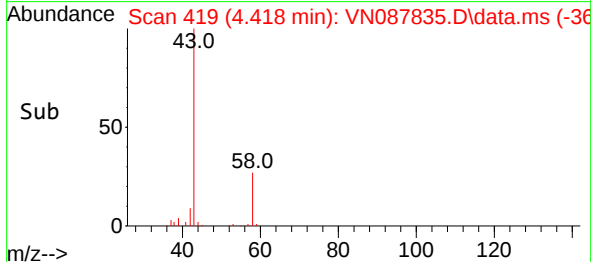
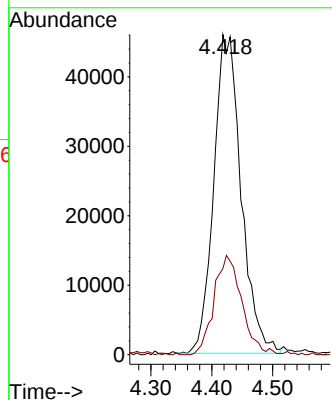
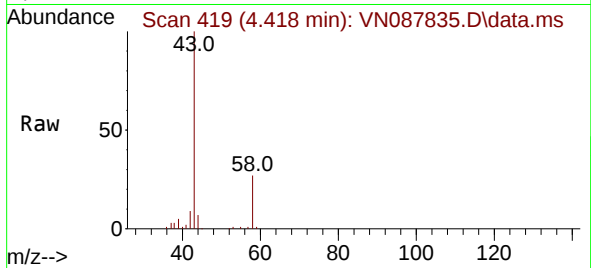




#16
Acetone
Concen: 75.146 ug/l
RT: 4.418 min Scan# 418
Delta R.T. -0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

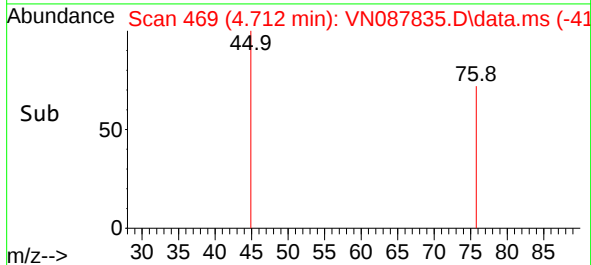
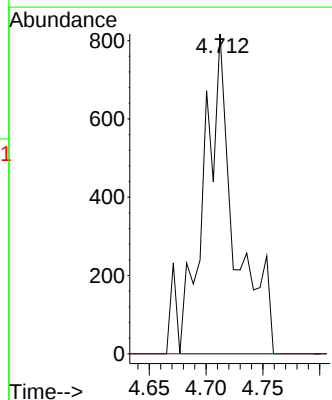
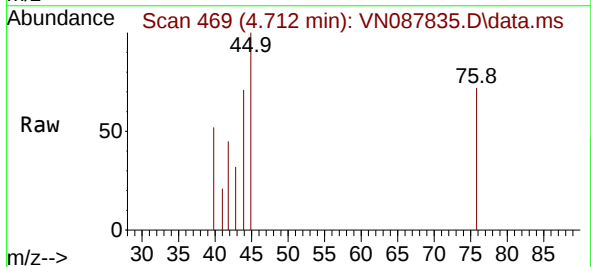
Instrument :
MSVOA_N
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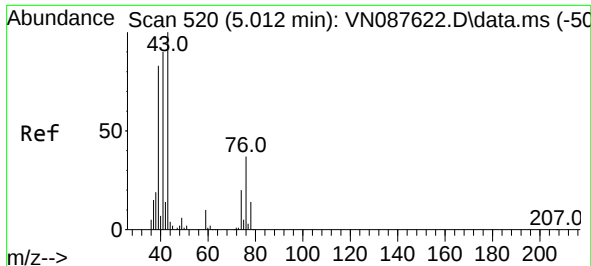
Tgt Ion: 43 Resp: 143219
Ion Ratio Lower Upper
43 100
58 27.1 22.6 33.8



#17
Carbon Disulfide
Concen: 0.226 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 76 Resp: 1535
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

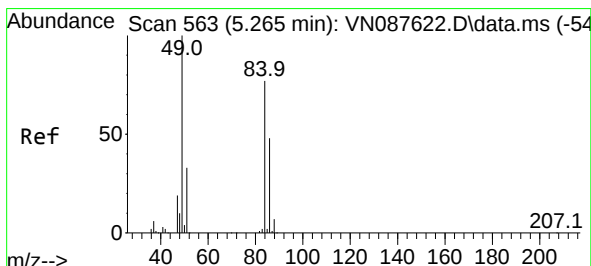
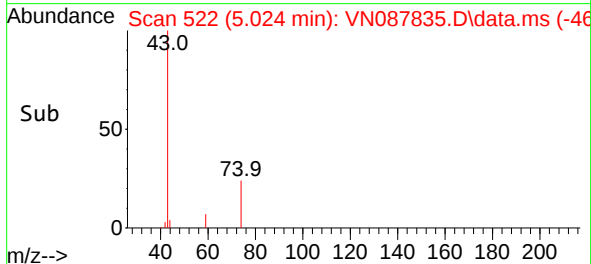
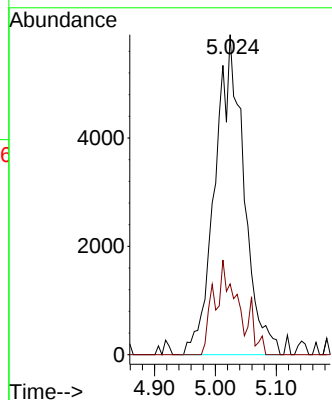
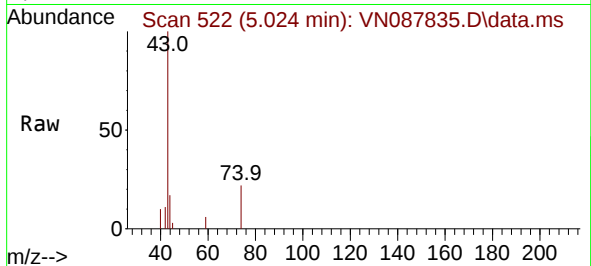




#18
Methyl Acetate
Concen: 4.884 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

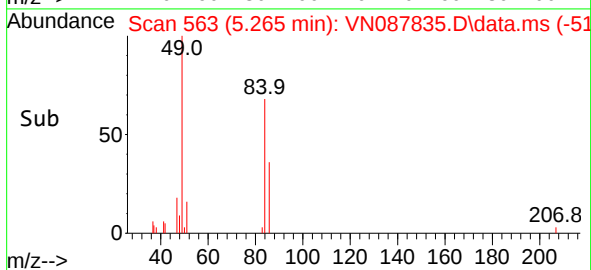
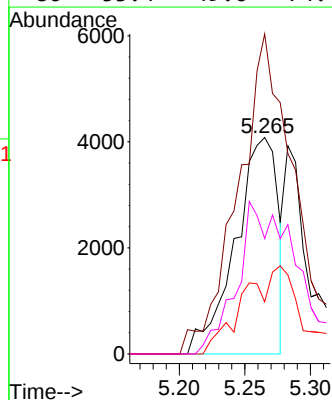
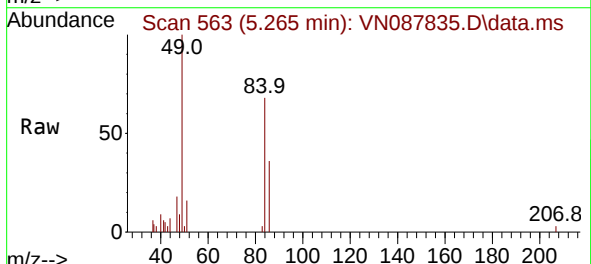
Instrument :
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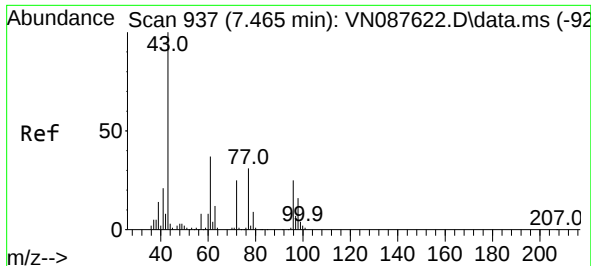
Tgt Ion: 43 Resp: 19489
Ion Ratio Lower Upper
43 100
74 11.8 17.6 26.4#



#20
Methylene Chloride
Concen: 2.144 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 84 Resp: 9185
Ion Ratio Lower Upper
84 100
49 147.8 103.4 155.2
51 24.0 33.8 50.8#
86 53.4 49.6 74.4

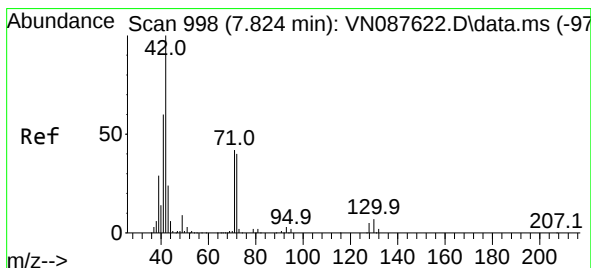
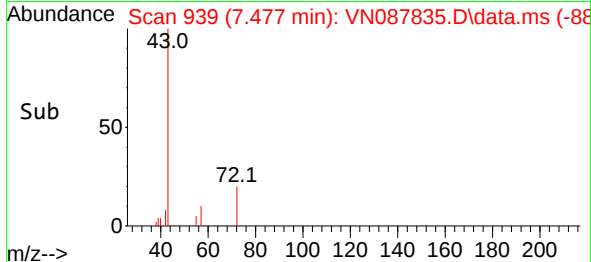
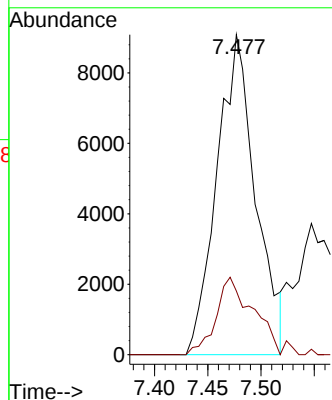
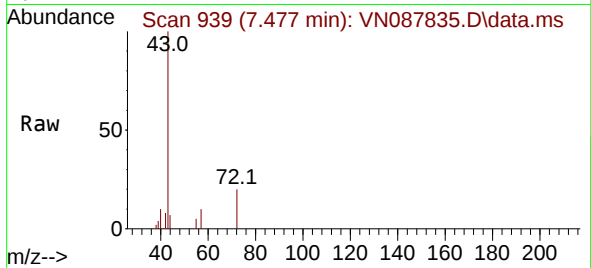




#25
2-Butanone
Concen: 9.141 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

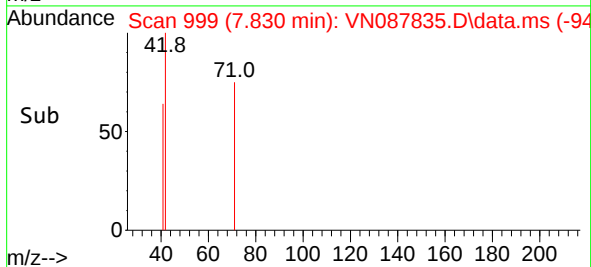
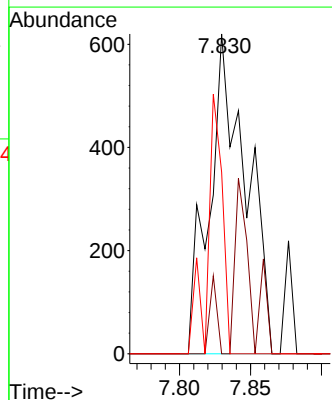
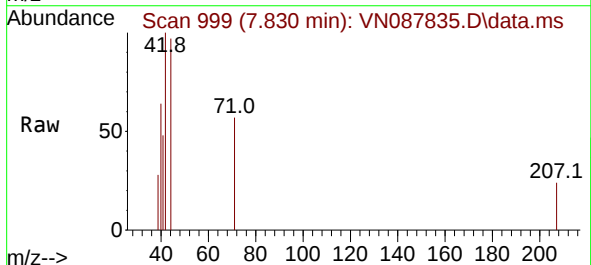
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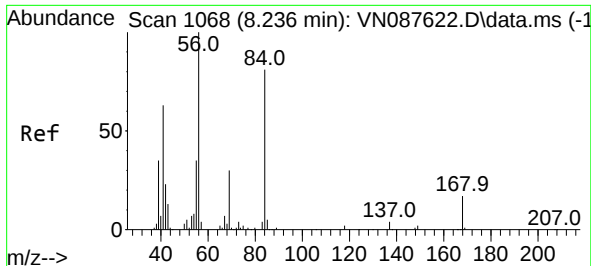
Tgt Ion: 43 Resp: 22921
Ion Ratio Lower Upper
43 100
72 19.9 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.692 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 42 Resp: 1117
Ion Ratio Lower Upper
42 100
72 4.7 33.7 50.5#
71 32.9 31.9 47.9

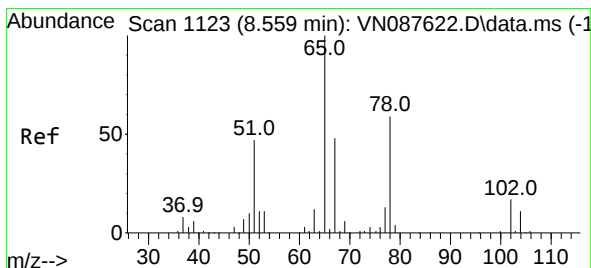
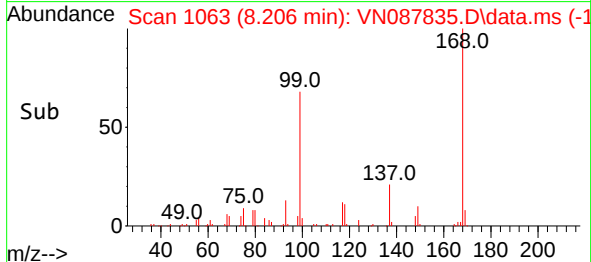
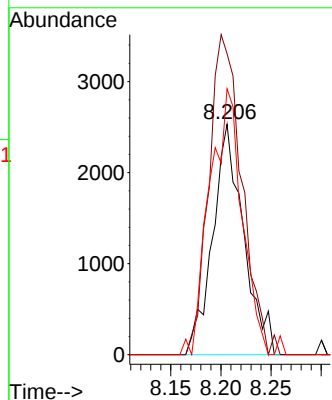
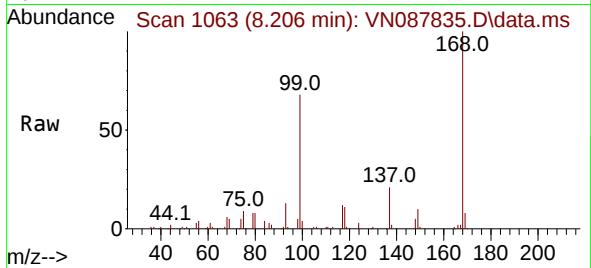




#31
Cyclohexane
Concen: 1.232 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

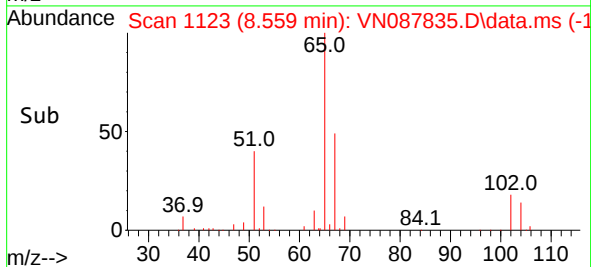
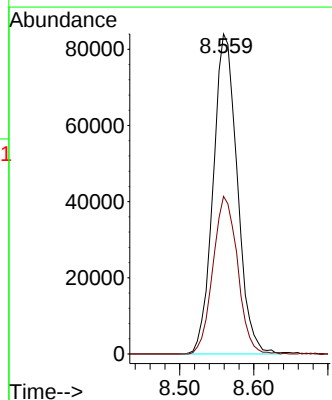
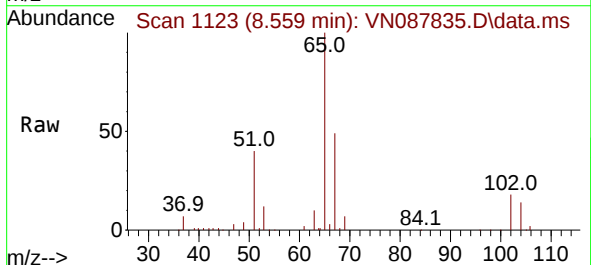
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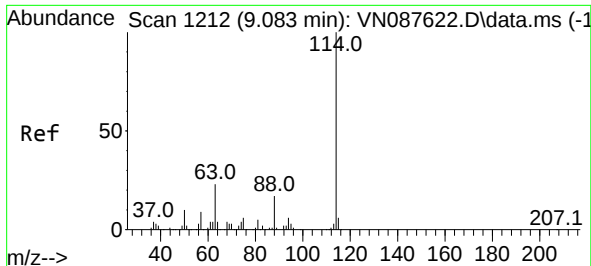
Tgt Ion: 56 Resp: 5425
Ion Ratio Lower Upper
56 100
69 130.6 23.7 35.5#
84 115.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 54.214 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 65 Resp: 189807
Ion Ratio Lower Upper
65 100
67 50.3 0.0 100.0

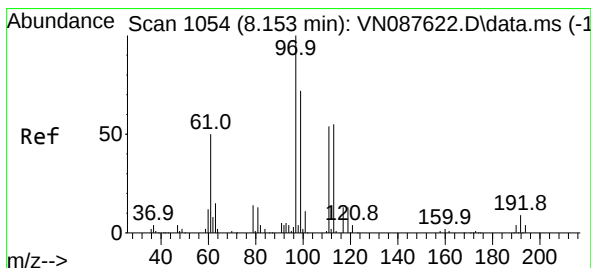
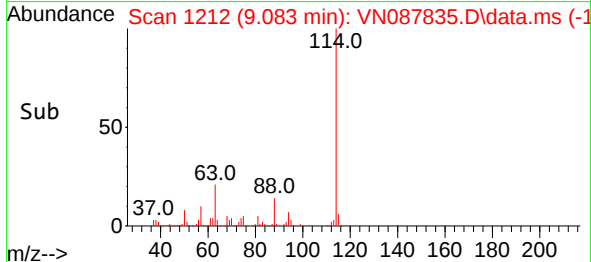
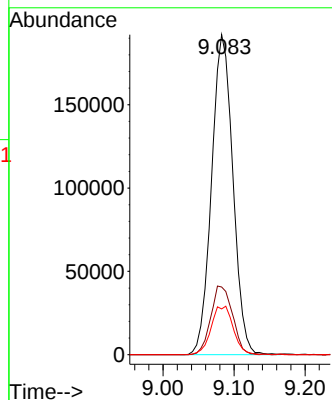
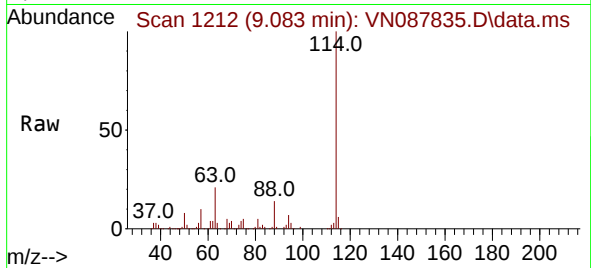




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

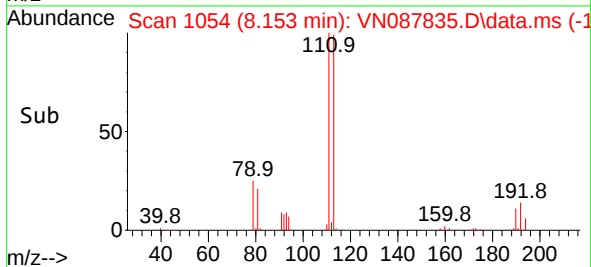
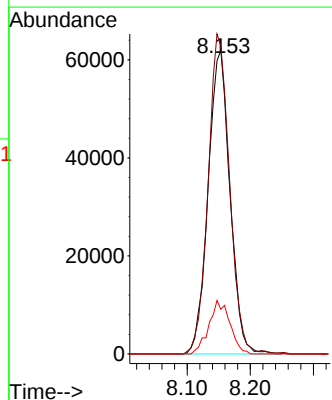
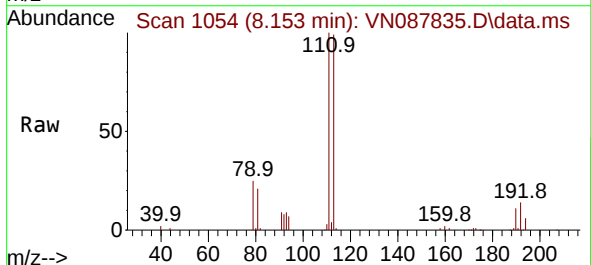
Instrument :
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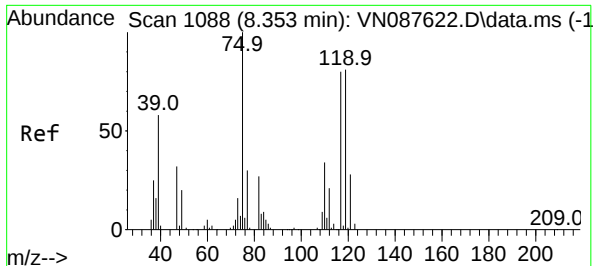
Tgt Ion:114 Resp: 400335
Ion Ratio Lower Upper
114 100
63 21.2 0.0 45.2
88 14.3 0.0 33.4



#35
Dibromofluoromethane
Concen: 51.363 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion:113 Resp: 148459
Ion Ratio Lower Upper
113 100
111 103.2 82.8 124.2
192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 3.666 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

279182

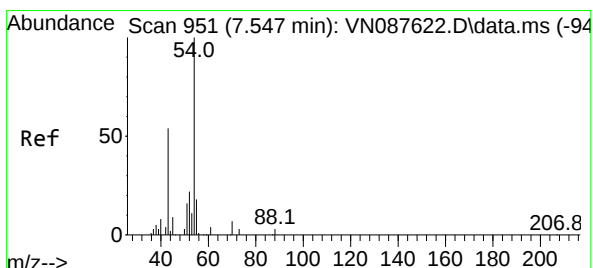
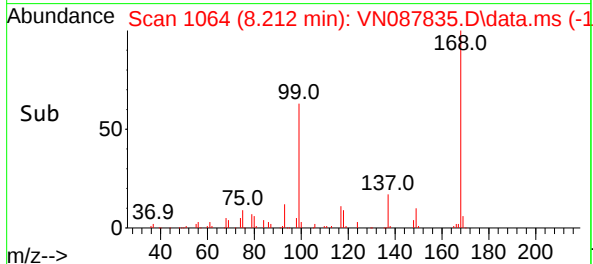
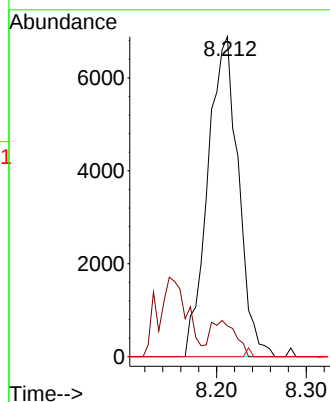
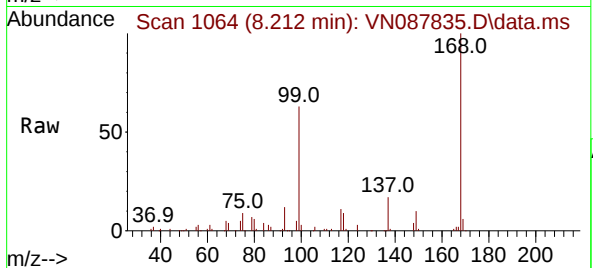
Tgt Ion: 75 Resp: 16255

Ion Ratio Lower Upper

75 100

110 9.5 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.620 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.000 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

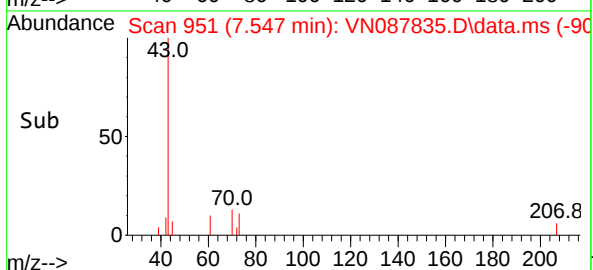
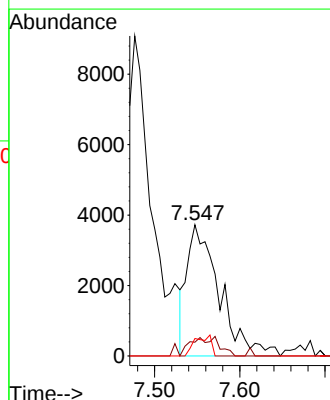
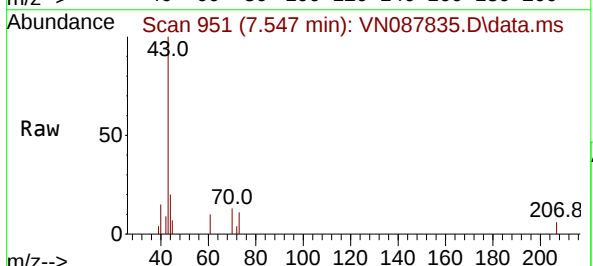
Tgt Ion: 43 Resp: 9818

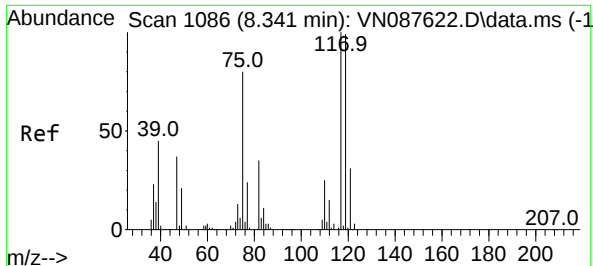
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

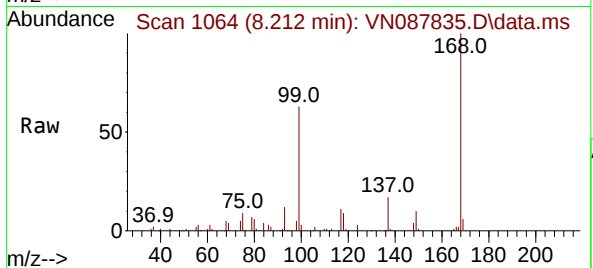
70 0.0 7.0 10.6#



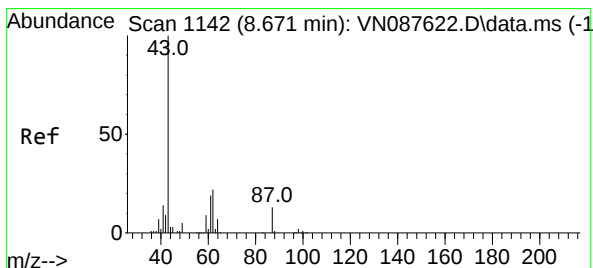
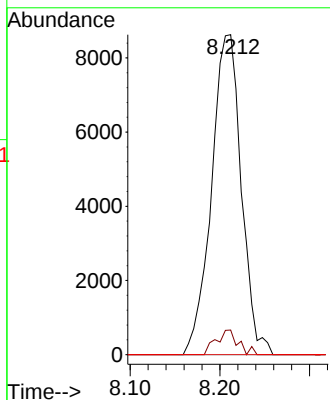
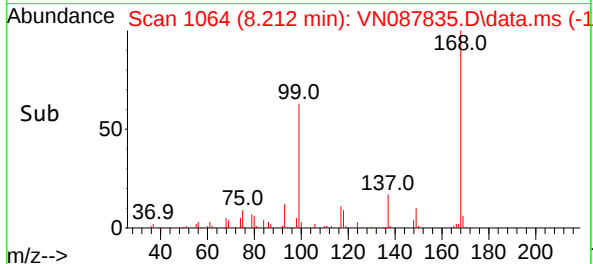


#38
Carbon Tetrachloride
Concen: 4.548 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Instrument :
MSVOA_N
ClientSampleId :
279182

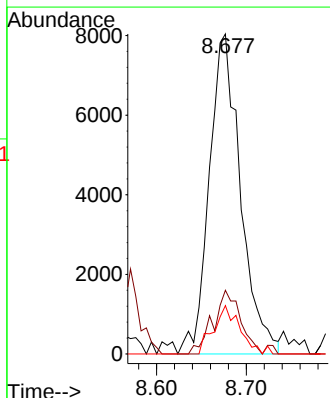
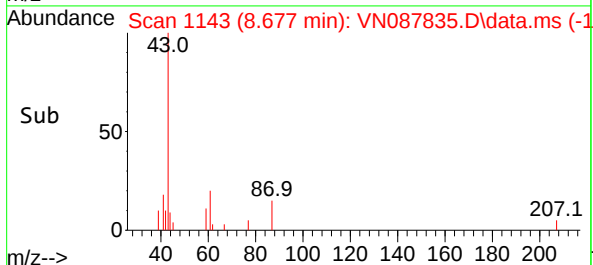
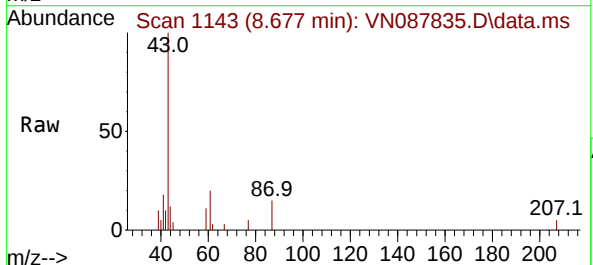


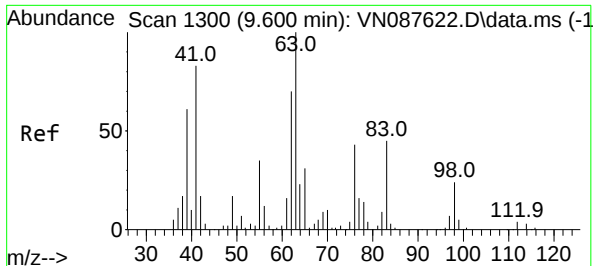
Tgt Ion: 117 Resp: 19913
Ion Ratio Lower Upper
117 100
119 7.7 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.056 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 43 Resp: 19452
Ion Ratio Lower Upper
43 100
61 17.4 18.8 28.2#
87 12.8 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.377 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

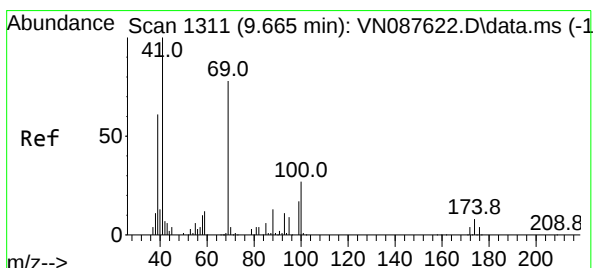
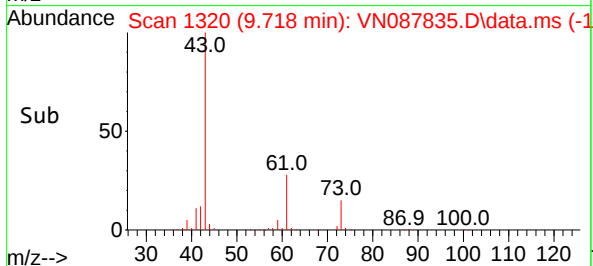
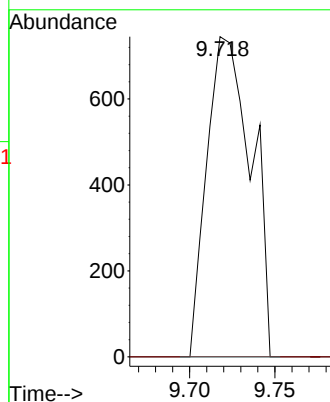
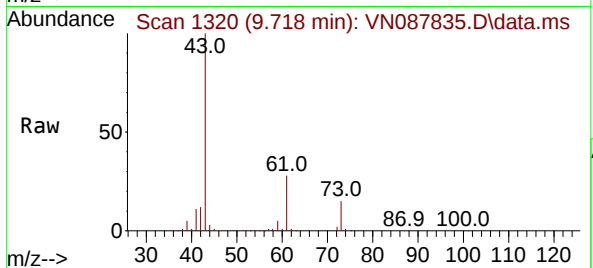
279182

Tgt Ion: 63 Resp: 1353

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 19.591 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

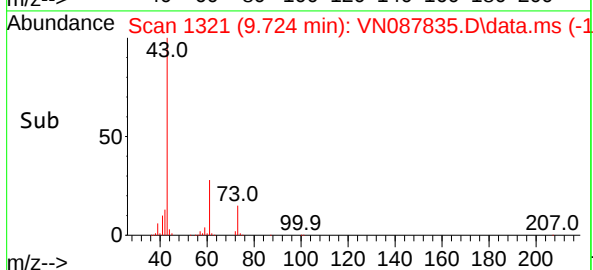
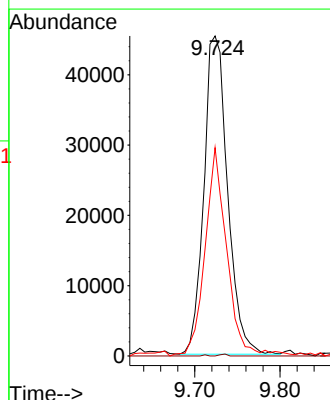
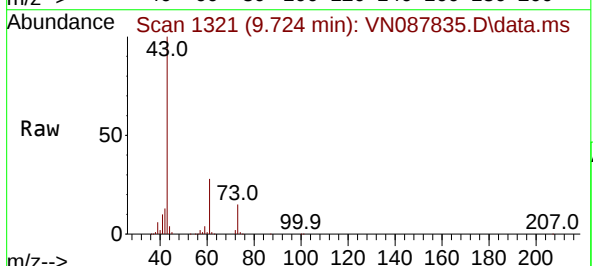
Tgt Ion: 41 Resp: 87664

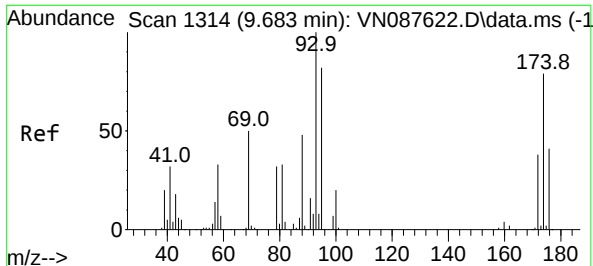
Ion Ratio Lower Upper

41 100

69 0.2 62.7 94.1#

39 56.9 52.9 79.3





#49

1,4-Dioxane

Concen: 1.190 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

279182

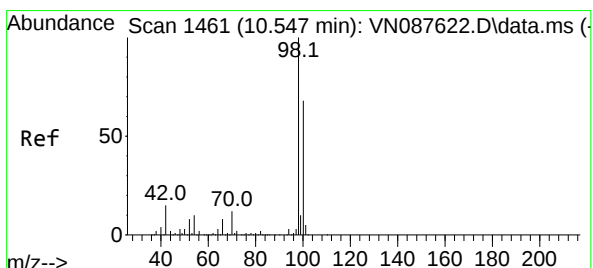
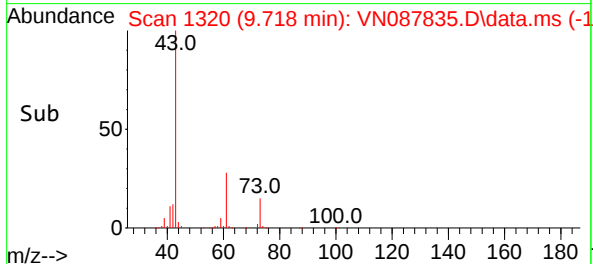
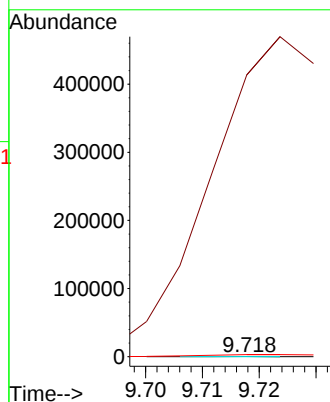
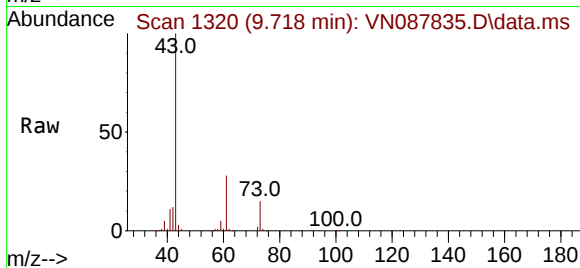
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 1287279.7 0.0 0.0#

58 9437.7 57.9 86.9#



#50

Toluene-d8

Concen: 49.708 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087835.D

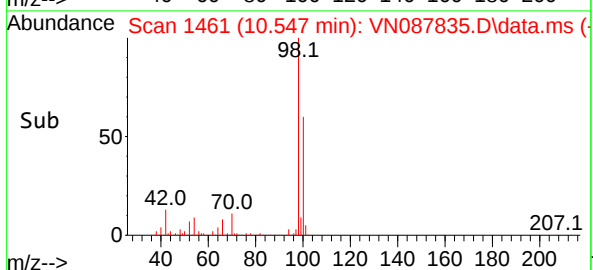
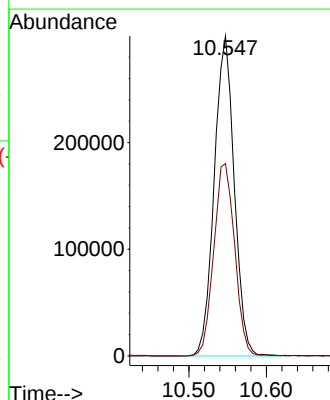
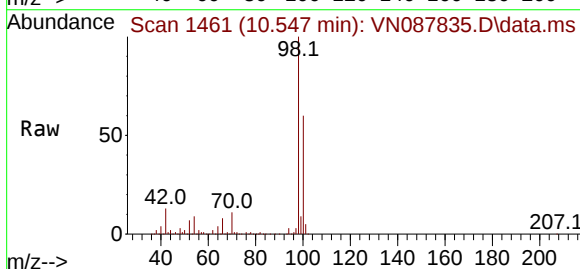
Acq: 15 Sep 2025 14:20

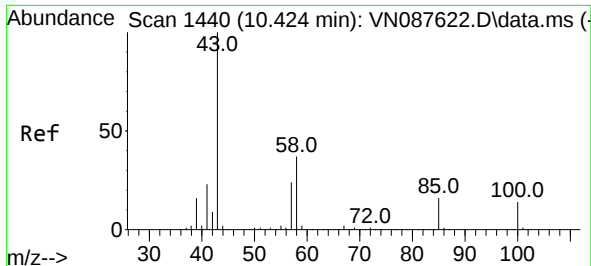
Tgt Ion: 98 Resp: 537759

Ion Ratio Lower Upper

98 100

100 62.9 52.8 79.2

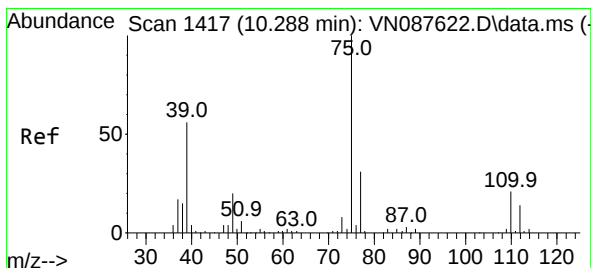
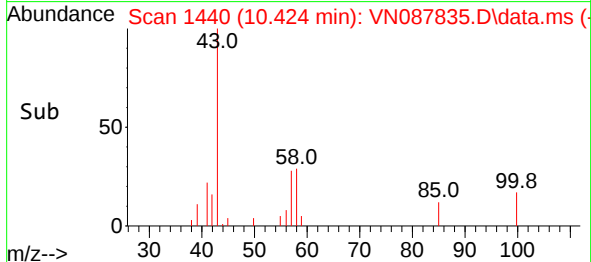
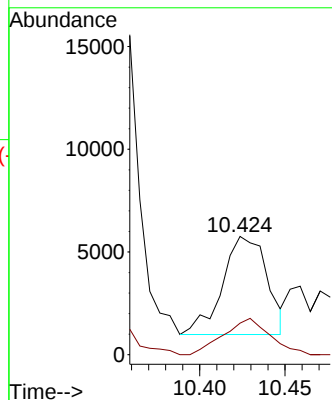
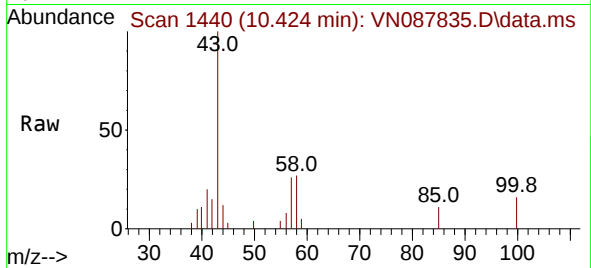




#51
4-Methyl-2-Pentanone
Concen: 1.526 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

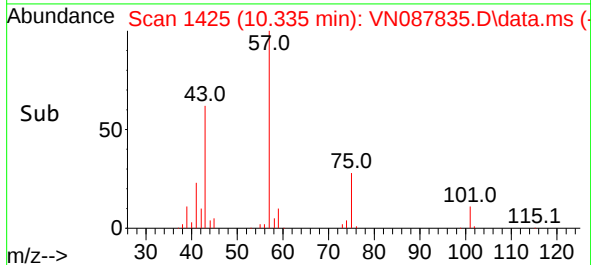
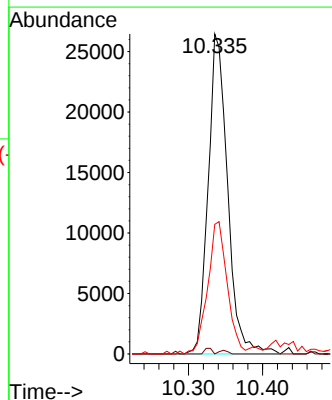
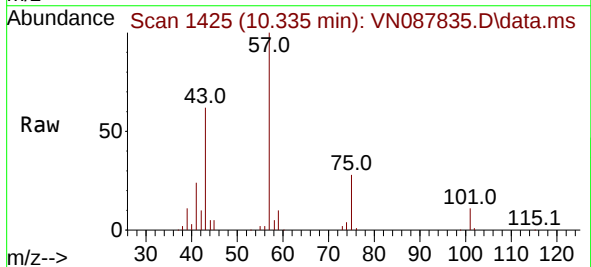
Instrument :
MSVOA_N
ClientSampleId :
279182

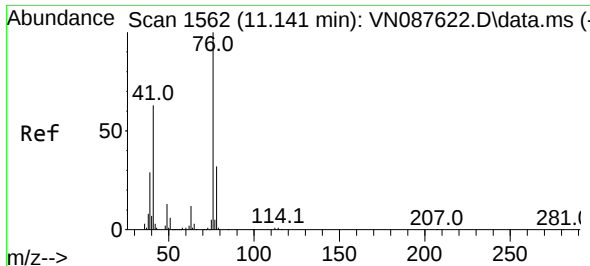
Tgt Ion: 43 Resp: 8709
Ion Ratio Lower Upper
43 100
58 38.4 29.6 44.4



#54
cis-1,3-Dichloropropene
Concen: 8.576 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 75 Resp: 48191
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 39.6 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.445 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

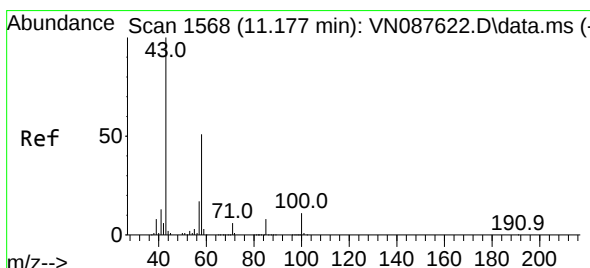
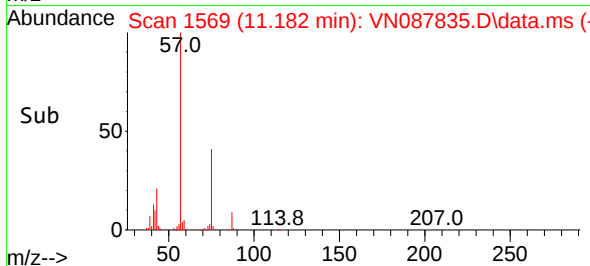
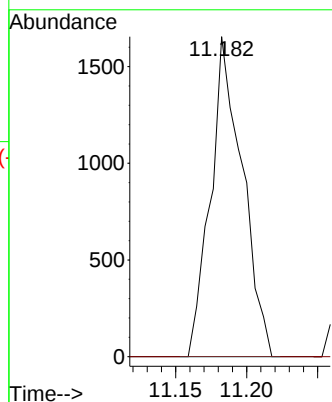
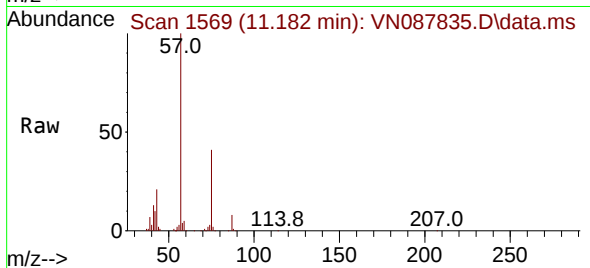
279182

Tgt Ion: 76 Resp: 2568

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 9.929 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN087835.D

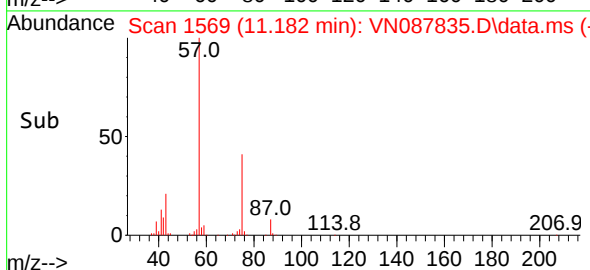
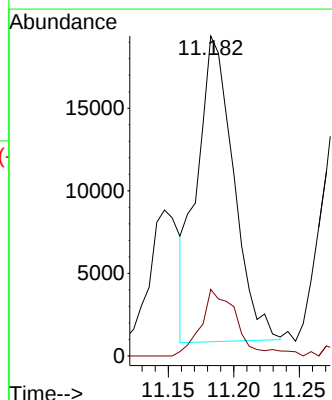
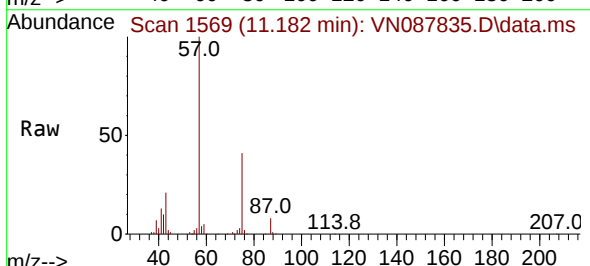
Acq: 15 Sep 2025 14:20

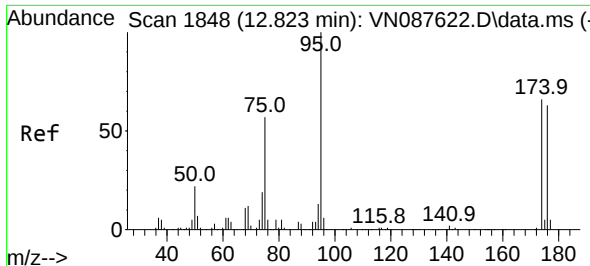
Tgt Ion: 43 Resp: 35816

Ion Ratio Lower Upper

43 100

58 21.5 25.9 77.8#

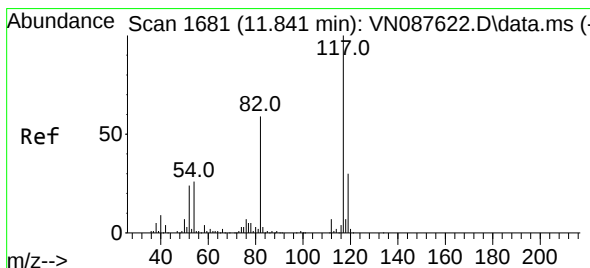
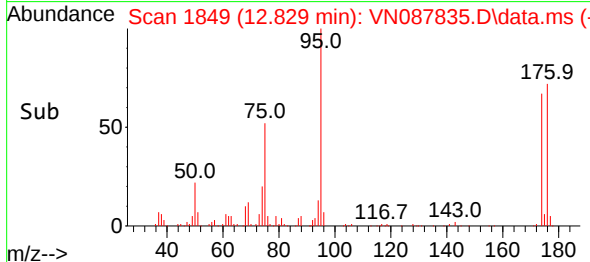
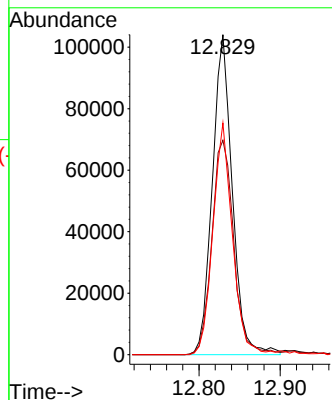
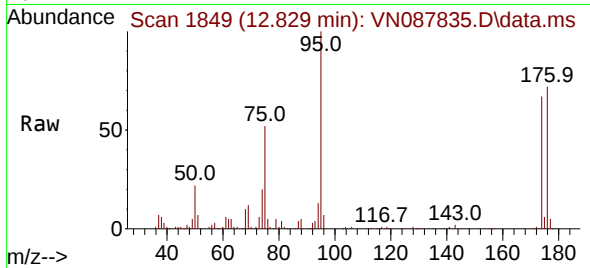




#62
4-Bromofluorobenzene
Concen: 46.248 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

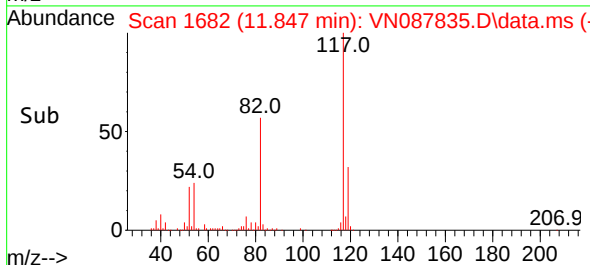
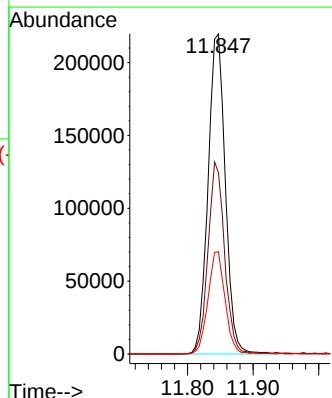
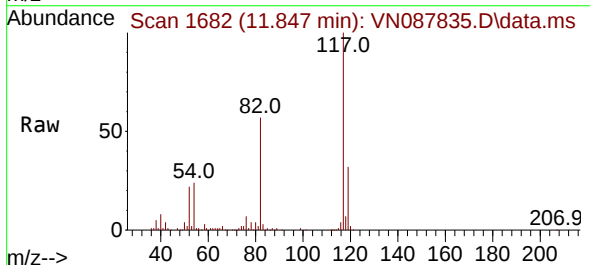
Instrument :
MSVOA_N
ClientSampleId :
279182

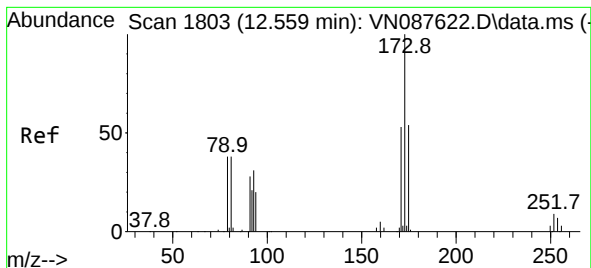
Tgt Ion: 95 Resp: 177931
Ion Ratio Lower Upper
95 100
174 73.6 0.0 138.4
176 70.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 117 Resp: 402622
Ion Ratio Lower Upper
117 100
82 56.7 47.4 71.2
119 32.0 24.3 36.5





#71

Bromoform

Concen: 0.350 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.259 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

279182

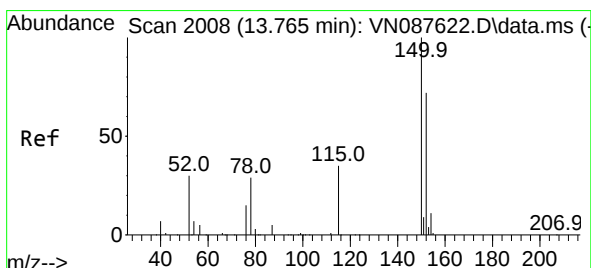
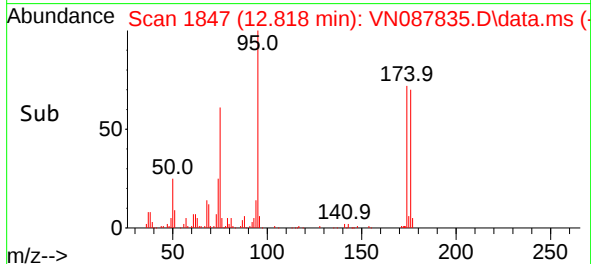
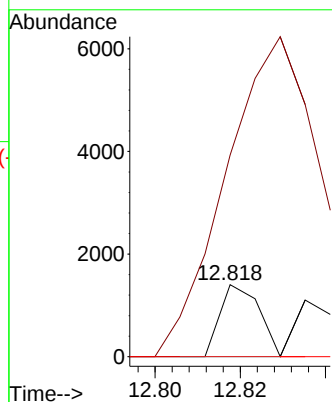
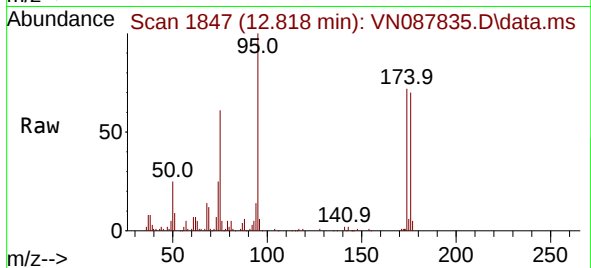
Tgt Ion:173 Resp: 893

Ion Ratio Lower Upper

173 100

175 919.9 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN087835.D

Acq: 15 Sep 2025 14:20

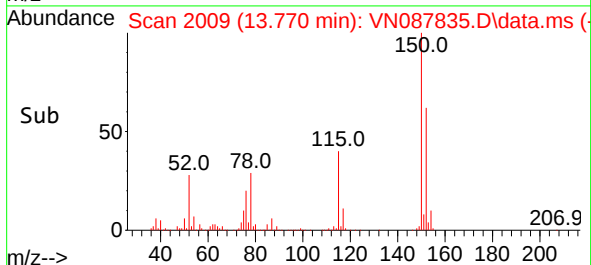
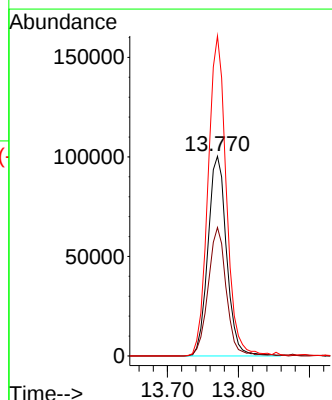
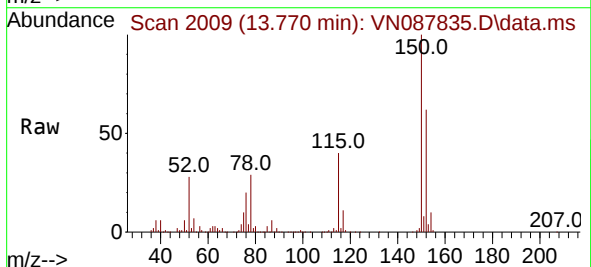
Tgt Ion:152 Resp: 182693

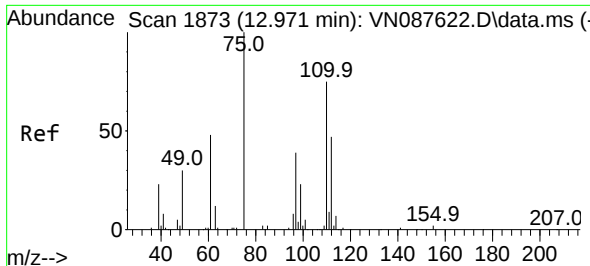
Ion Ratio Lower Upper

152 100

115 62.9 32.3 96.8

150 157.2 0.0 351.0

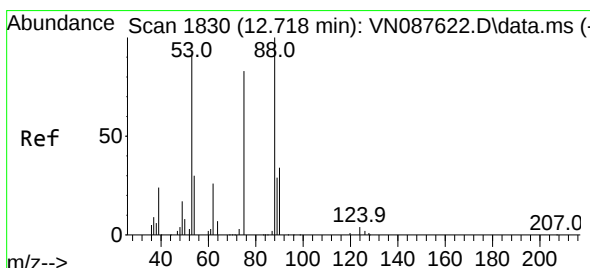
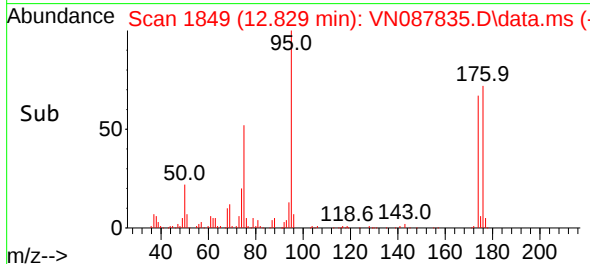
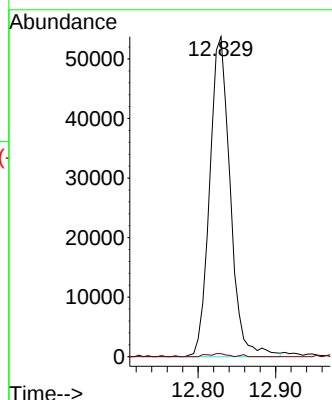
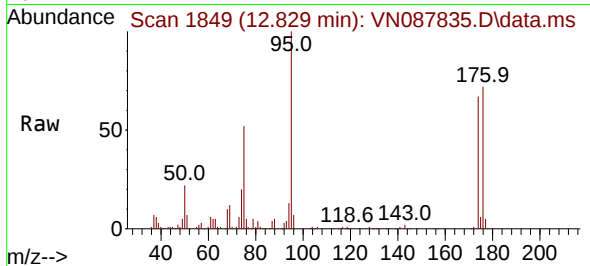




#76
1,2,3-Trichloropropane
Concen: 23.109 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Instrument :
MSVOA_N
ClientSampleId :
279182

Tgt Ion: 75 Resp: 99003
Ion Ratio Lower Upper
75 100
77 0.9 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.177 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087835.D
Acq: 15 Sep 2025 14:20

Tgt Ion: 75 Resp: 99003
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.3 35.6 53.4#

