

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111825\
 Data File : VN088310.D
 Acq On : 18 Nov 2025 11:56
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Nov 19 03:32:51 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)

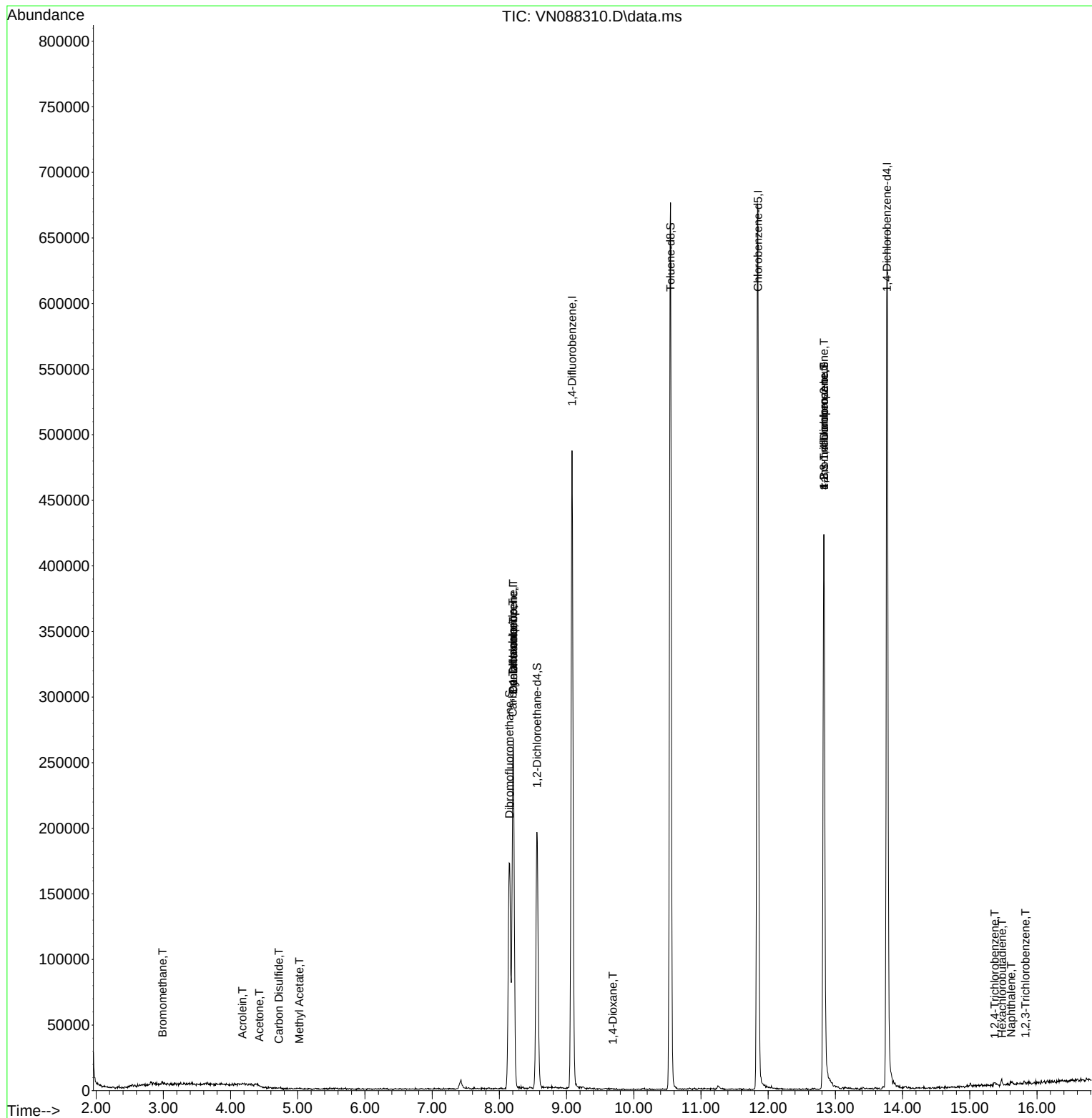
Internal Standards						
1) Pentafluorobenzene	8.206	168	177332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	395767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	383745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	180620	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	163576	53.344	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.680%	
35) Dibromofluoromethane	8.147	113	128725	48.415	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.820%	
50) Toluene-d8	10.547	98	454457	44.360	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 88.720%	
62) 4-Bromofluorobenzene	12.829	95	156628	43.291	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 86.580%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.989	94	761	0.496	ug/l #	65
13) Acrolein	4.177	56	321	0.540	ug/l #	1
16) Acetone	4.430	43	1041	0.676	ug/l #	47
17) Carbon Disulfide	4.718	76	2086	0.308	ug/l #	74
18) Methyl Acetate	5.024	43	974	0.309	ug/l #	54
31) Cyclohexane	8.206	56	5606	1.306	ug/l #	11
36) 1,1-Dichloropropene	8.206	75	17588	4.531	ug/l #	52
38) Carbon Tetrachloride	8.200	117	20758	5.177	ug/l #	15
49) 1,4-Dioxane	9.688	88	377	8.529	ug/l #	69
76) 1,2,3-Trichloropropane	12.829	75	87824	21.267	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	87824	59.326	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.370	180	1121	0.320	ug/l	89
94) Hexachlorobutadiene	15.482	225	673	0.516	ug/l	98
95) Naphthalene	15.617	128	2435	0.203	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.829	180	933	0.278	ug/l #	80

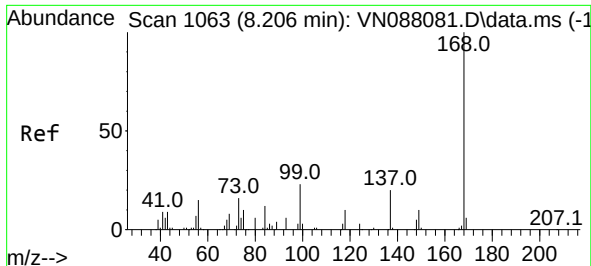
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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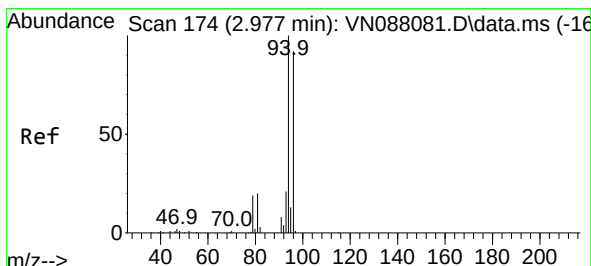
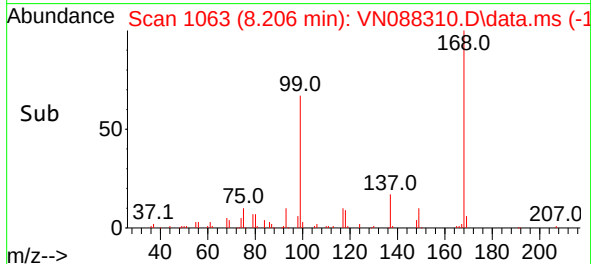
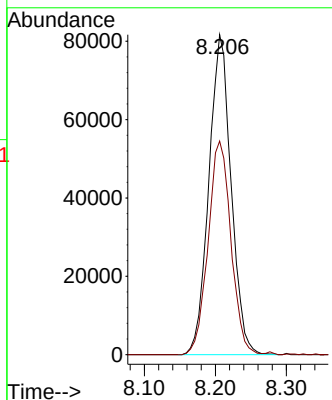
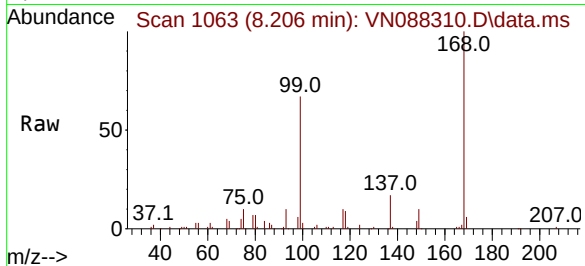




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

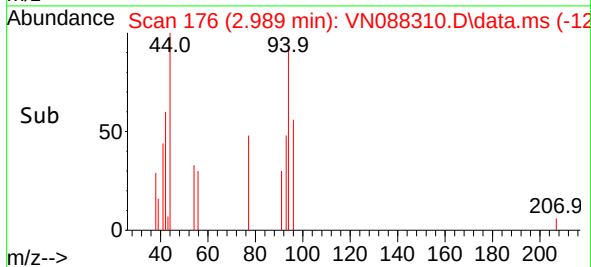
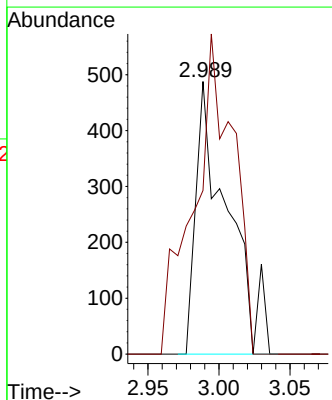
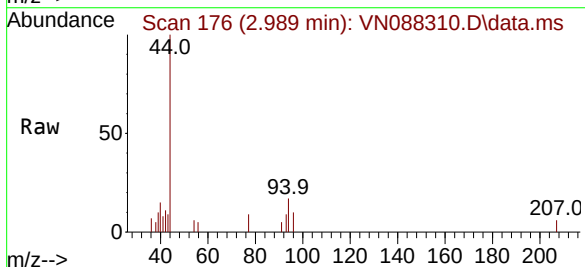
Instrument :
MSVOA_N
ClientSampleId :
IBLK

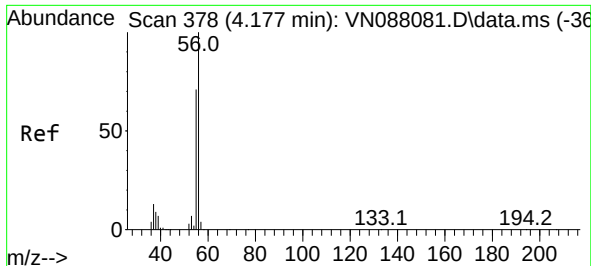
Tgt Ion:168 Resp: 177332
Ion Ratio Lower Upper
168 100
99 66.7 57.2 85.8



#5
Bromomethane
Concen: 0.496 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 94 Resp: 761
Ion Ratio Lower Upper
94 100
96 60.0 75.4 113.2#

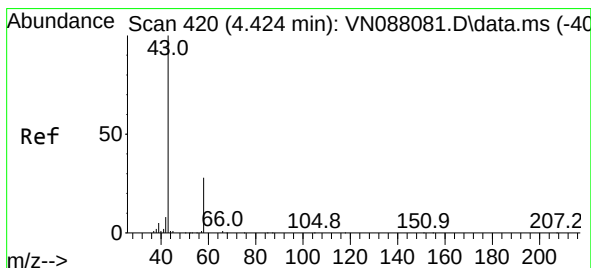
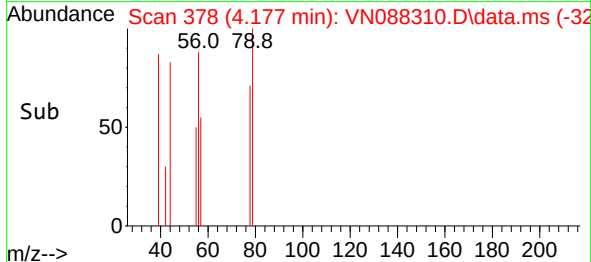
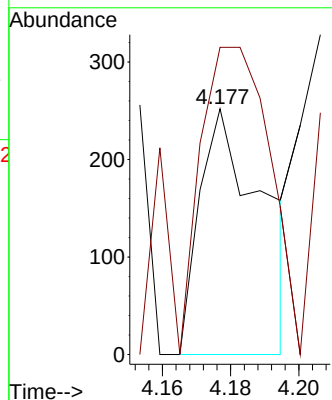
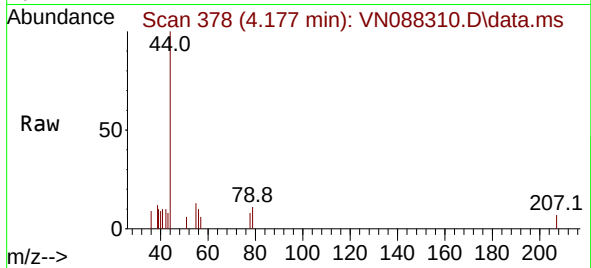




#13
Acrolein
Concen: 0.540 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

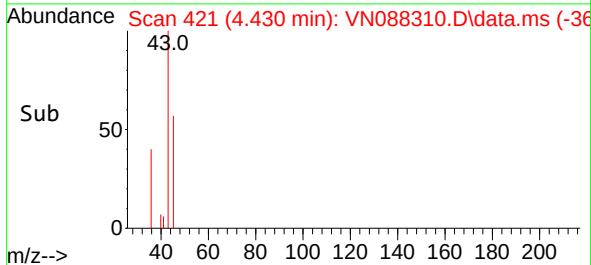
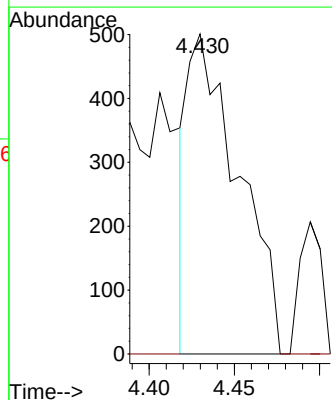
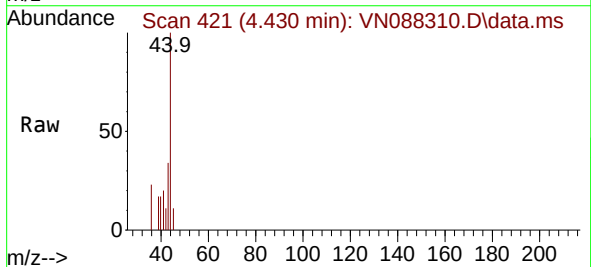
Instrument :
MSVOA_N
ClientSampleId :
IBLK

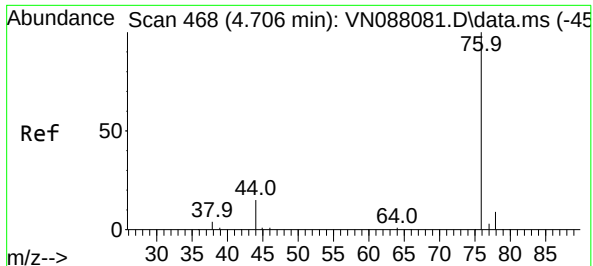
Tgt Ion: 56 Resp: 321
Ion Ratio Lower Upper
56 100
55 162.0 57.3 85.9#



#16
Acetone
Concen: 0.676 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 43 Resp: 1041
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#

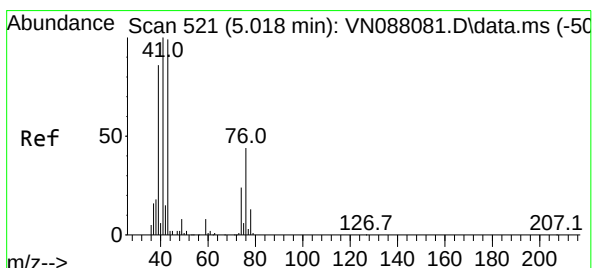
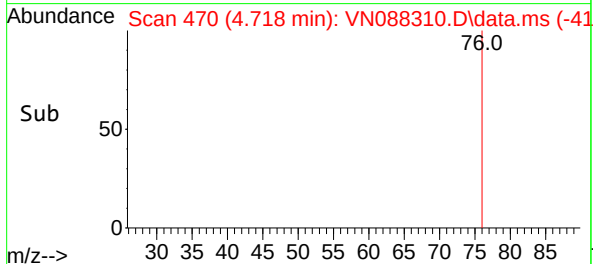
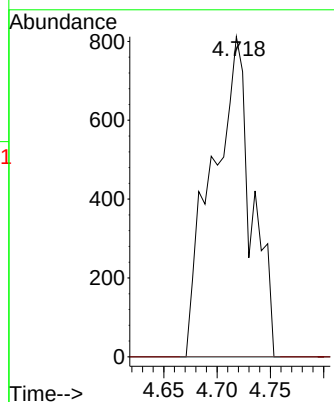
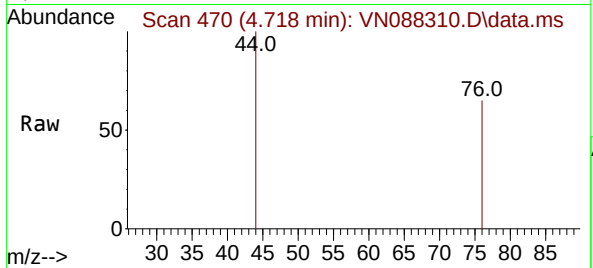




#17
Carbon Disulfide
Concen: 0.308 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.018 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

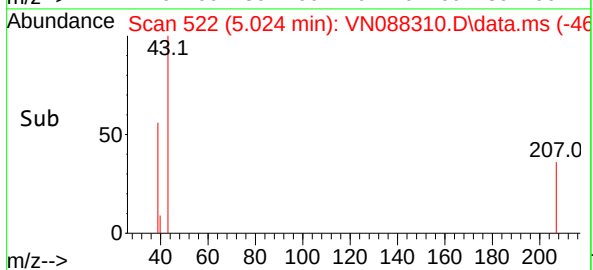
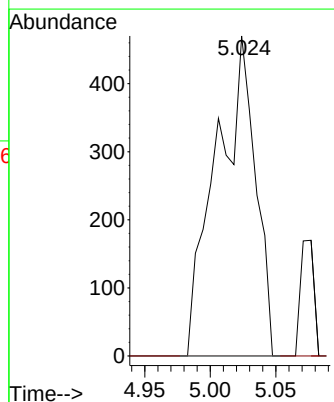
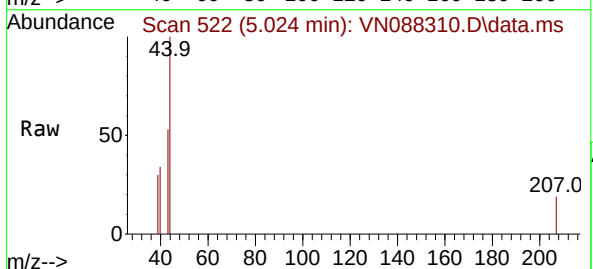
Instrument :
MSVOA_N
ClientSampleId :
IBLK

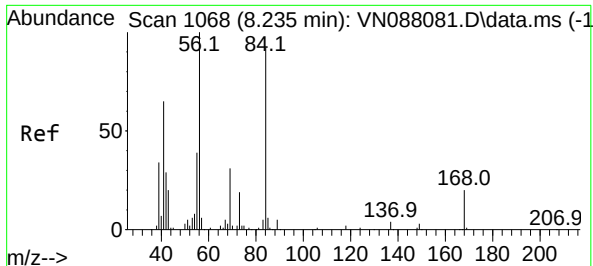
Tgt Ion: 76 Resp: 2086
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.309 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 43 Resp: 974
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#

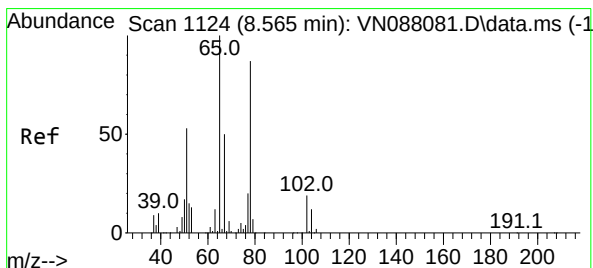
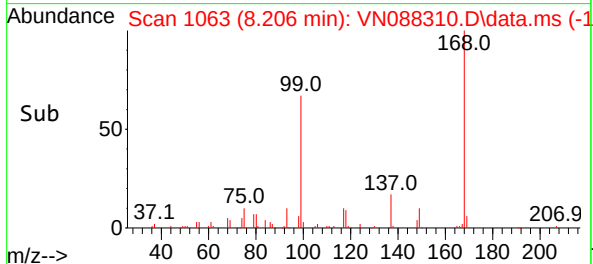
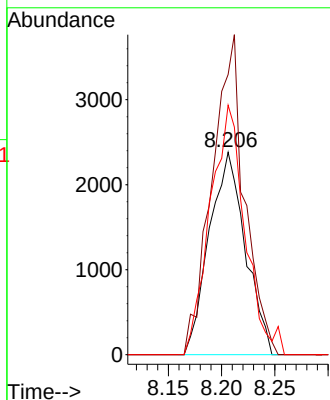
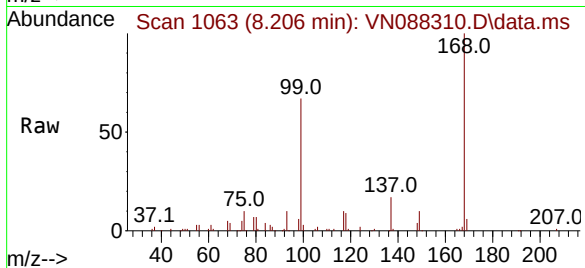




#31
Cyclohexane
Concen: 1.306 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

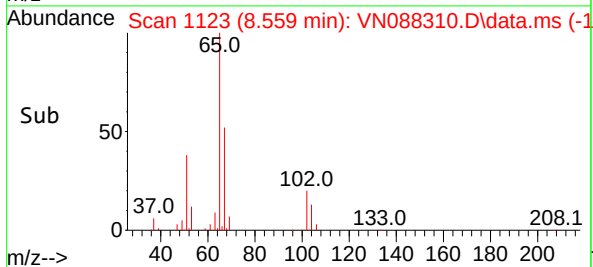
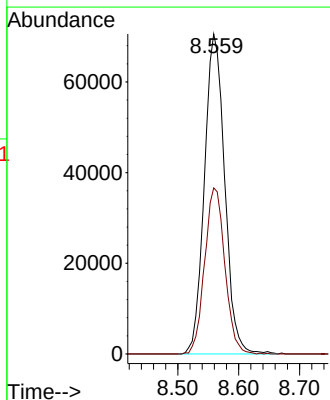
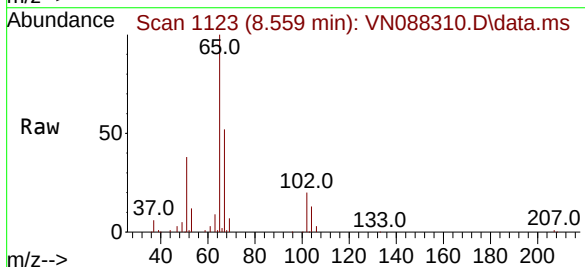
Instrument :
MSVOA_N
ClientSampleId :
IBLK

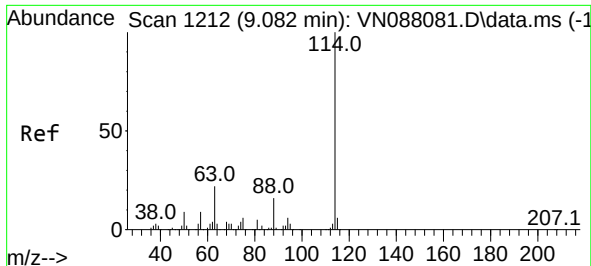
Tgt Ion: 56 Resp: 5606
Ion Ratio Lower Upper
56 100
69 138.4 23.7 35.5#
84 123.2 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 53.344 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 65 Resp: 163576
Ion Ratio Lower Upper
65 100
67 51.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088310.D

Acq: 18 Nov 2025 11:56

Instrument :

MSVOA_N

ClientSampleId :

IBLK

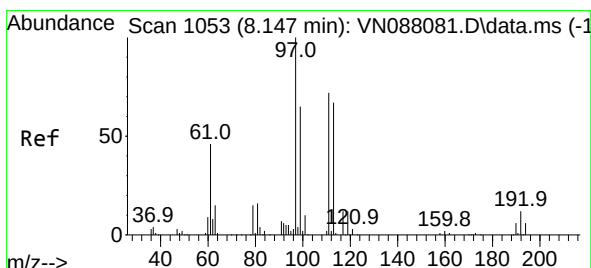
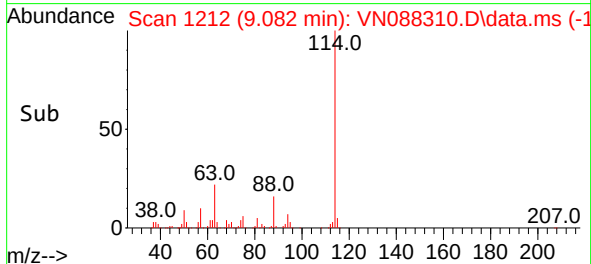
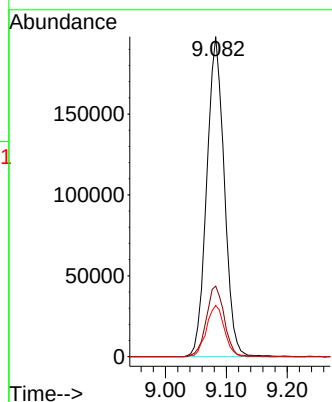
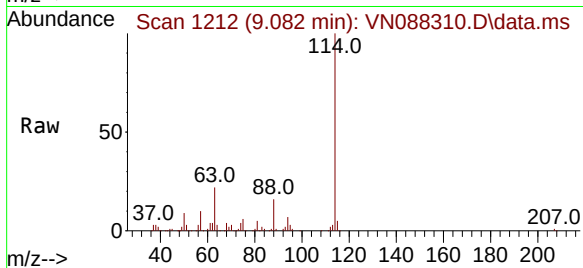
Tgt Ion:114 Resp: 395767

Ion Ratio Lower Upper

114 100

63 22.0 0.0 45.2

88 16.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.415 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088310.D

Acq: 18 Nov 2025 11:56

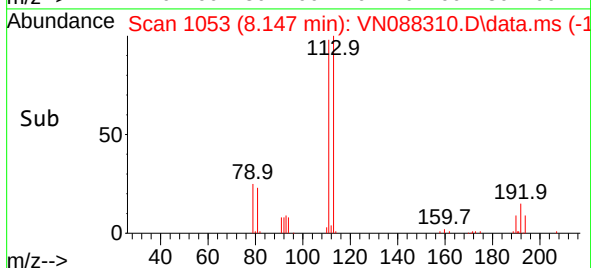
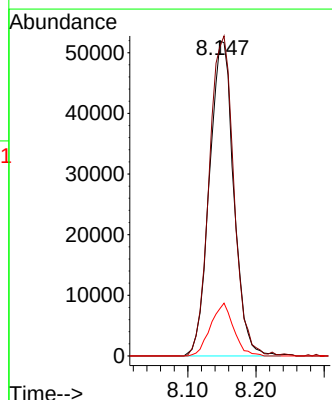
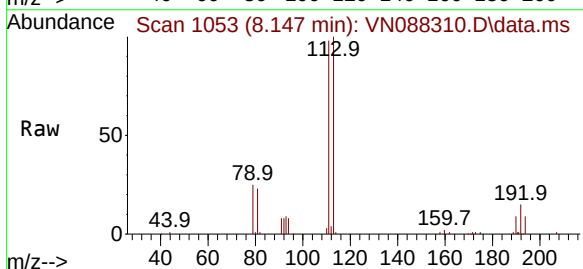
Tgt Ion:113 Resp: 128725

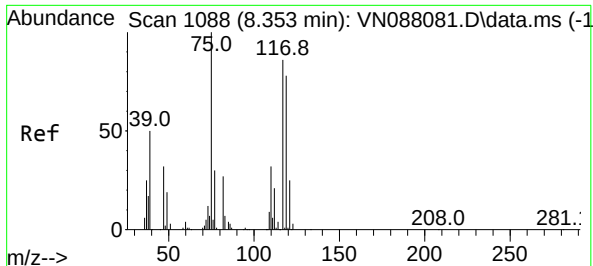
Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

192 15.9 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.531 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088310.D

Acq: 18 Nov 2025 11:56

Instrument :

MSVOA_N

ClientSampleId :

IBLK

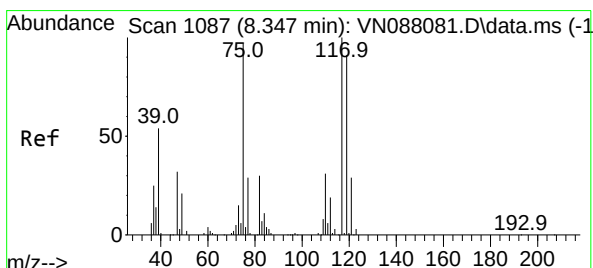
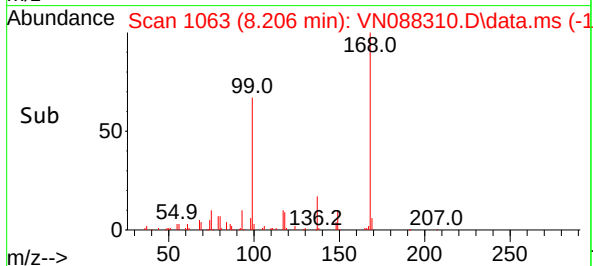
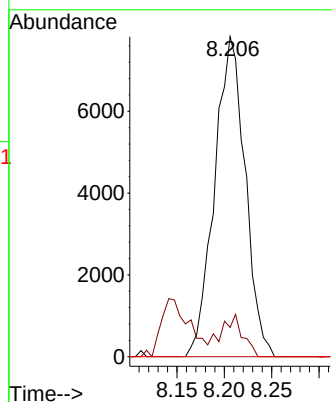
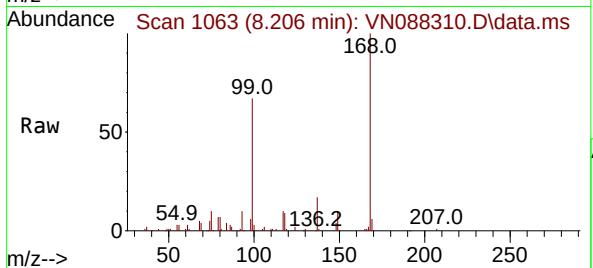
Tgt Ion: 75 Resp: 17588

Ion Ratio Lower Upper

75 100

110 9.5 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.177 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN088310.D

Acq: 18 Nov 2025 11:56

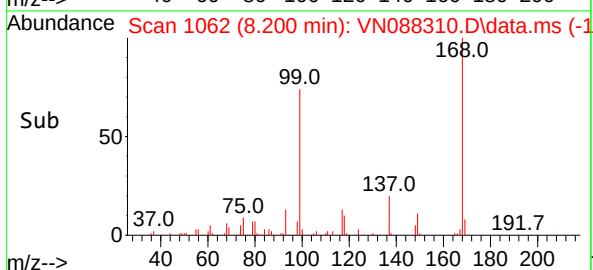
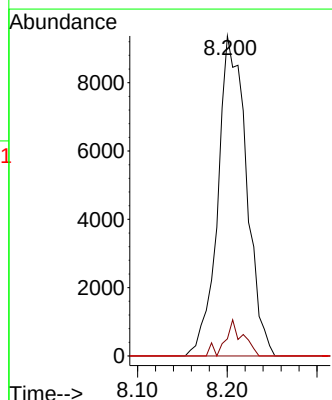
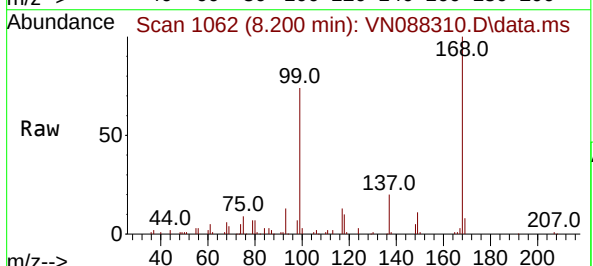
Tgt Ion: 117 Resp: 20758

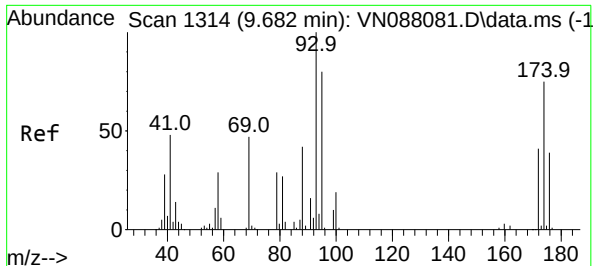
Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.6#

121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 8.529 ug/l

RT: 9.688 min Scan# 1314

Delta R.T. 0.006 min

Lab File: VN088310.D

Acq: 18 Nov 2025 11:56

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IBLK

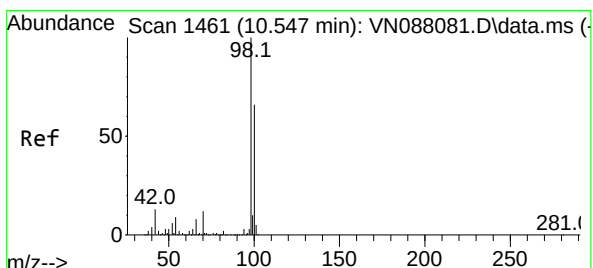
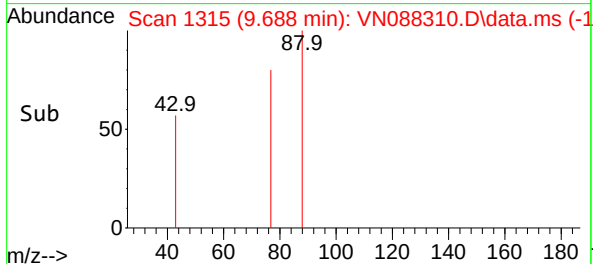
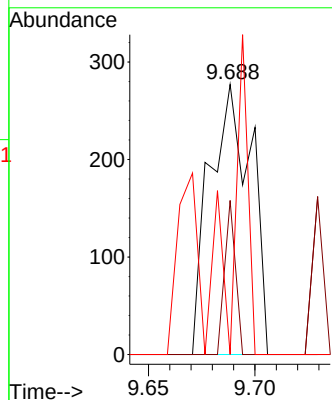
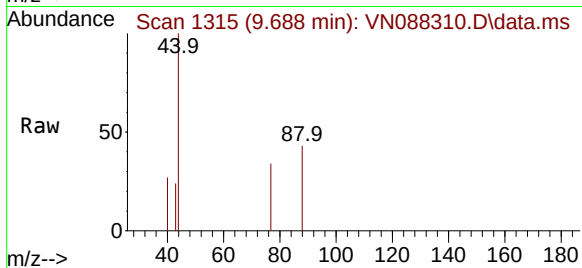
Tgt Ion: 88 Resp: 377

Ion Ratio Lower Upper

88 100

43 14.9 0.0 0.0#

58 46.4 57.9 86.9#



#50

Toluene-d8

Concen: 44.360 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088310.D

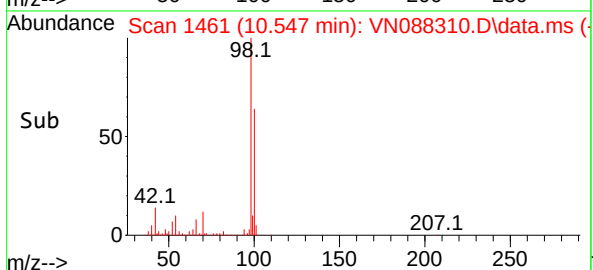
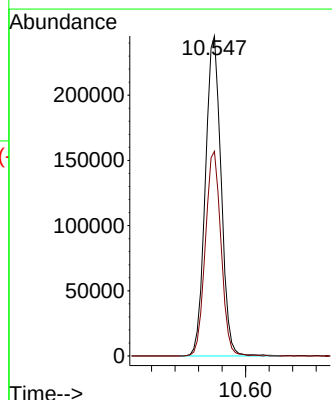
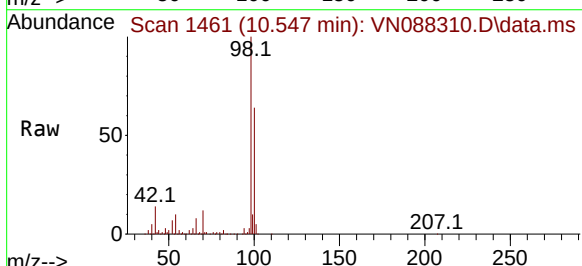
Acq: 18 Nov 2025 11:56

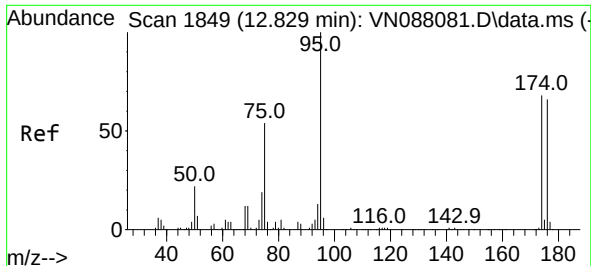
Tgt Ion: 98 Resp: 454457

Ion Ratio Lower Upper

98 100

100 63.6 52.8 79.2

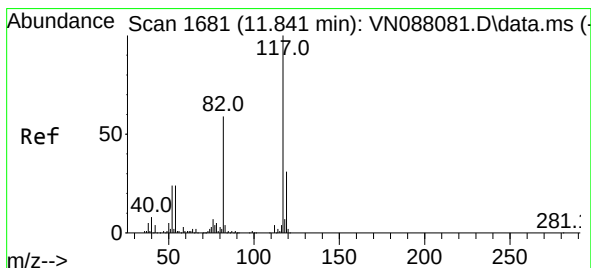
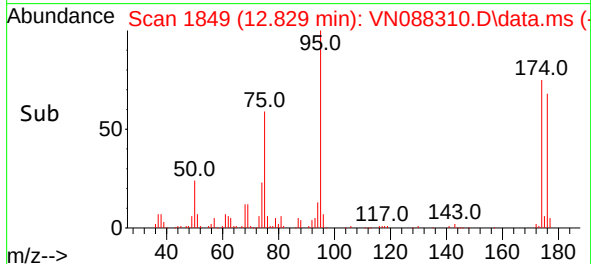
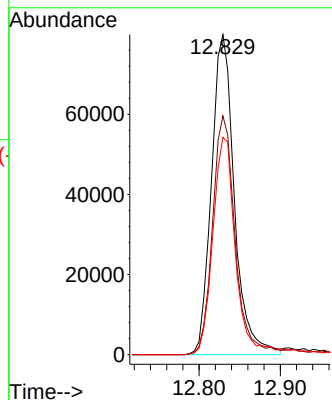
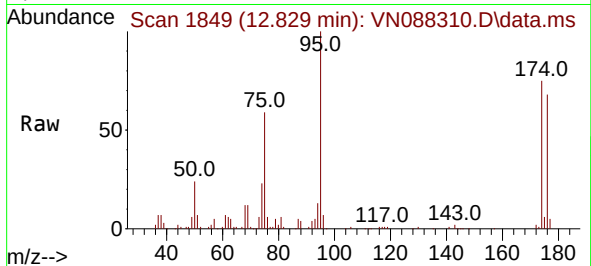




#62
4-Bromofluorobenzene
Concen: 43.291 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

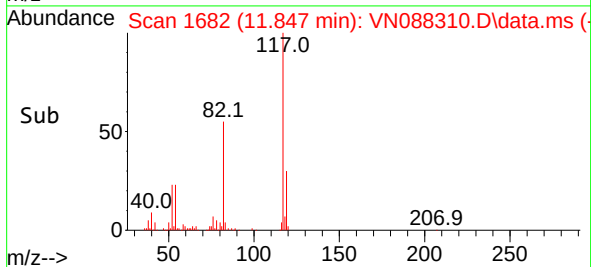
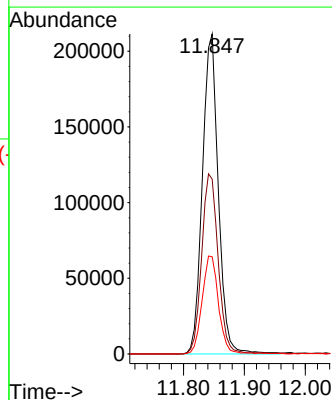
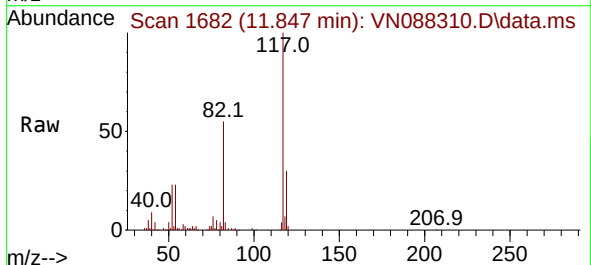
Instrument :
MSVOA_N
ClientSampleId :
IBLK

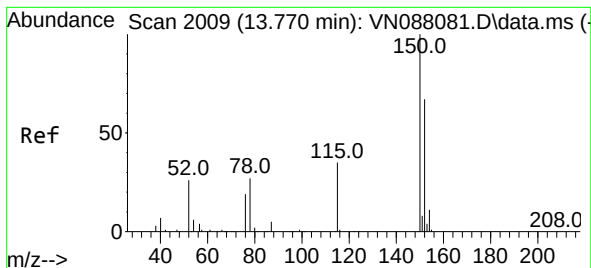
Tgt Ion: 95 Resp: 156628
Ion Ratio Lower Upper
95 100
174 73.3 0.0 138.4
176 69.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 117 Resp: 383745
Ion Ratio Lower Upper
117 100
82 54.6 47.4 71.2
119 30.3 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: VN088310.D

Acq: 18 Nov 2025 11:56

Instrument :

MSVOA_N

ClientSampleId :

IBLK

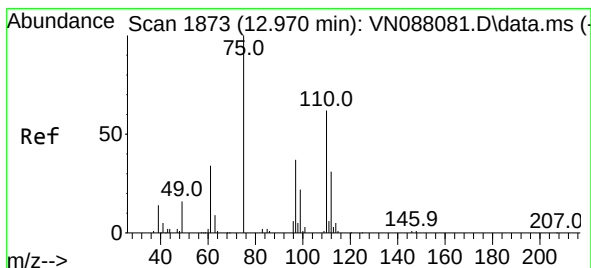
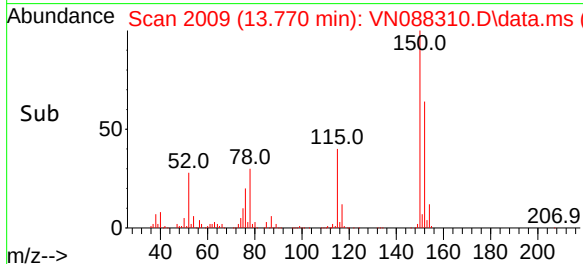
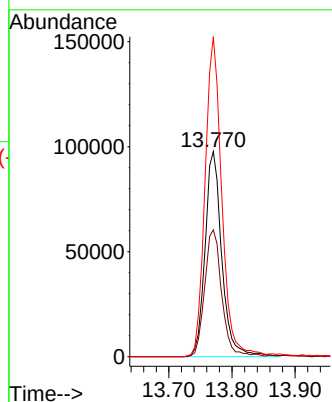
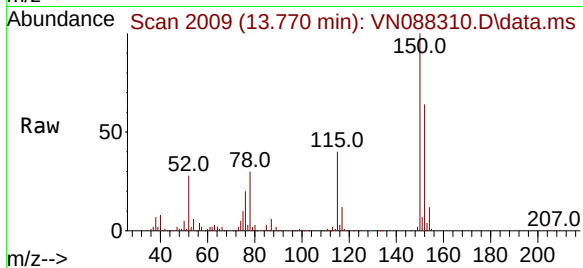
Tgt Ion:152 Resp: 180620

Ion Ratio Lower Upper

152 100

115 62.9 32.3 96.8

150 155.0 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 21.267 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088310.D

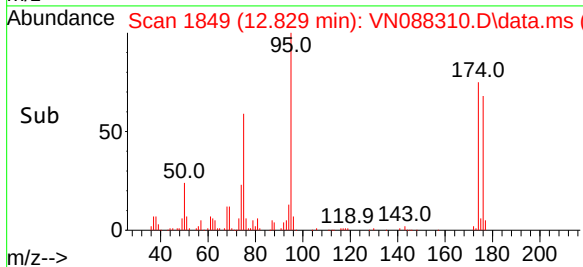
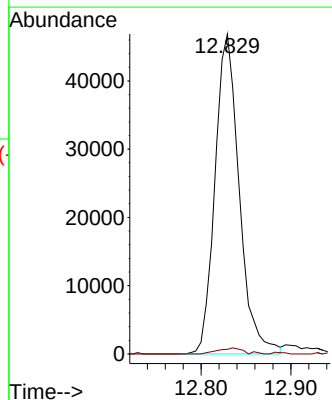
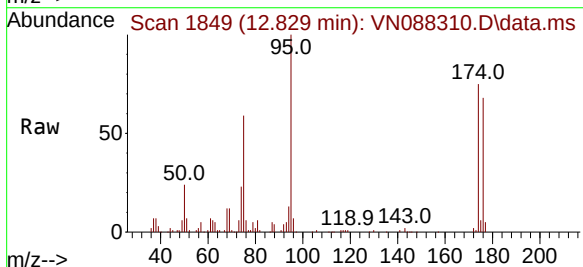
Acq: 18 Nov 2025 11:56

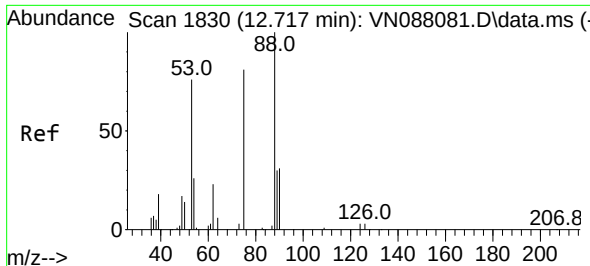
Tgt Ion: 75 Resp: 87824

Ion Ratio Lower Upper

75 100

77 2.0 89.1 267.4#

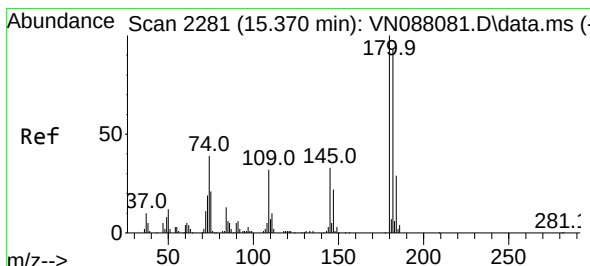
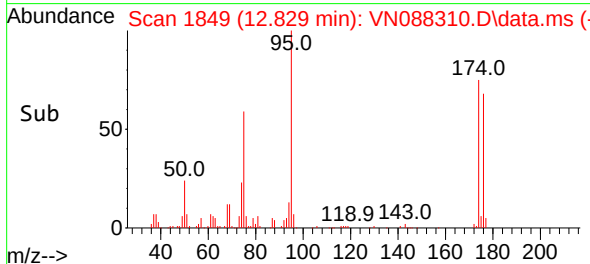
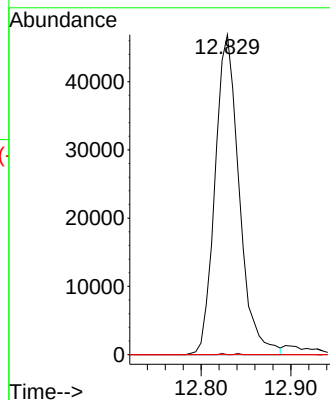
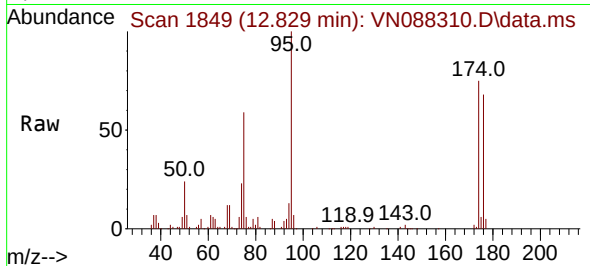




#81
trans-1,4-Dichloro-2-butene
Concen: 59.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

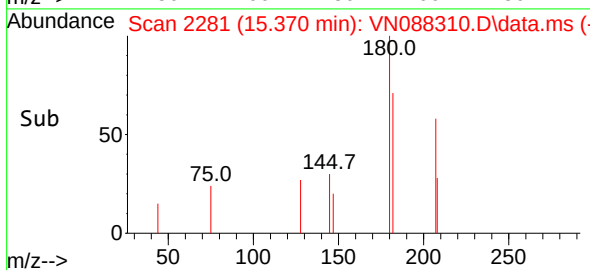
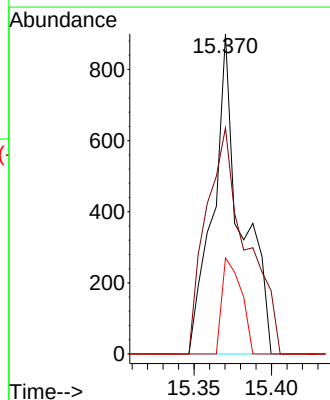
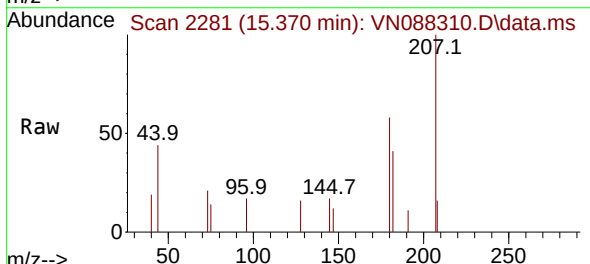
Instrument :
MSVOA_N
ClientSampleId :
IBLK

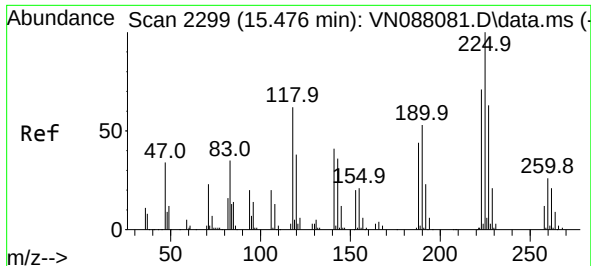
Tgt Ion: 75 Resp: 87824
Ion Ratio Lower Upper
75 100
53 0.1 101.8 152.6#
89 0.0 35.6 53.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.320 ug/l
RT: 15.370 min Scan# 2281
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

Tgt Ion: 180 Resp: 1121
Ion Ratio Lower Upper
180 100
182 101.8 47.6 142.9
145 20.8 16.5 49.5

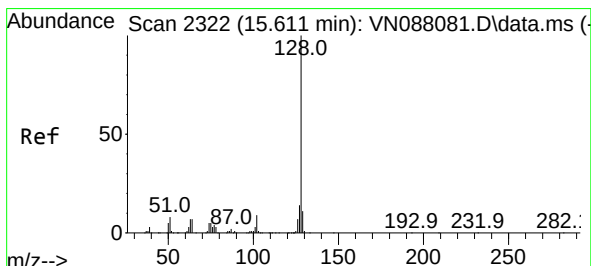
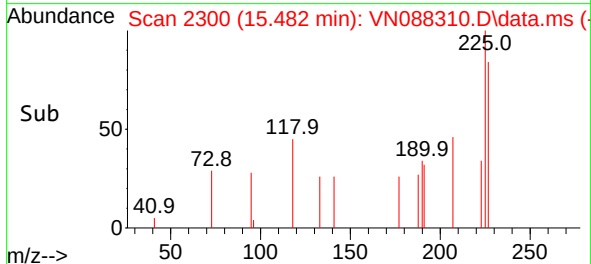
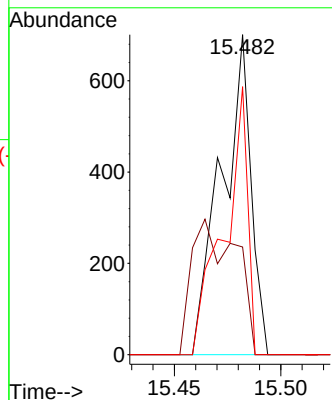
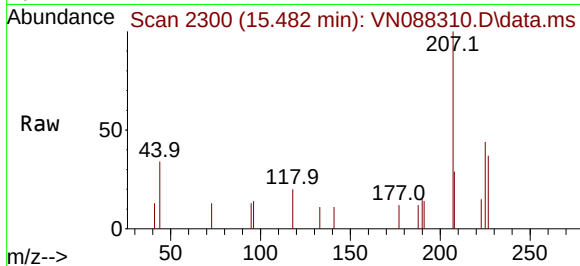




#94
Hexachlorobutadiene
Concen: 0.516 ug/l
RT: 15.482 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

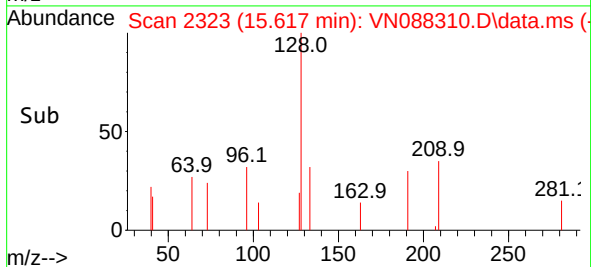
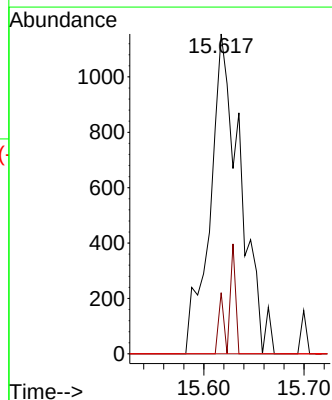
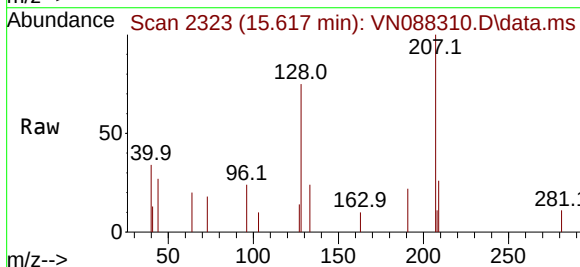
Instrument :
MSVOA_N
ClientSampleId :
IBLK

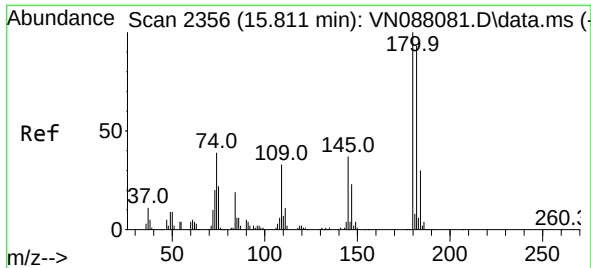
Tgt Ion:	225	Resp:	673
Ion	Ratio	Lower	Upper
225	100		
223	63.4	32.0	96.2
227	66.7	32.1	96.5



#95
Naphthalene
Concen: 0.203 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088310.D
Acq: 18 Nov 2025 11:56

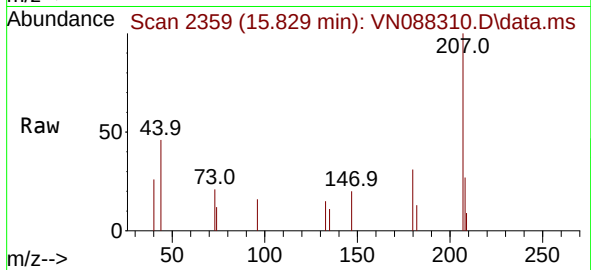
Tgt Ion:	128	Resp:	2435
Ion	Ratio	Lower	Upper
128	100		
127	9.0	10.6	15.8#
129	0.0	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.278 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VN088310.D
 Acq: 18 Nov 2025 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:180 Resp: 933
 Ion Ratio Lower Upper
 180 100
 182 103.2 46.8 140.3
 145 7.2 17.3 52.0#

