

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088168.D
 Acq On : 29 Oct 2025 17:52
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Oct 30 04:11:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

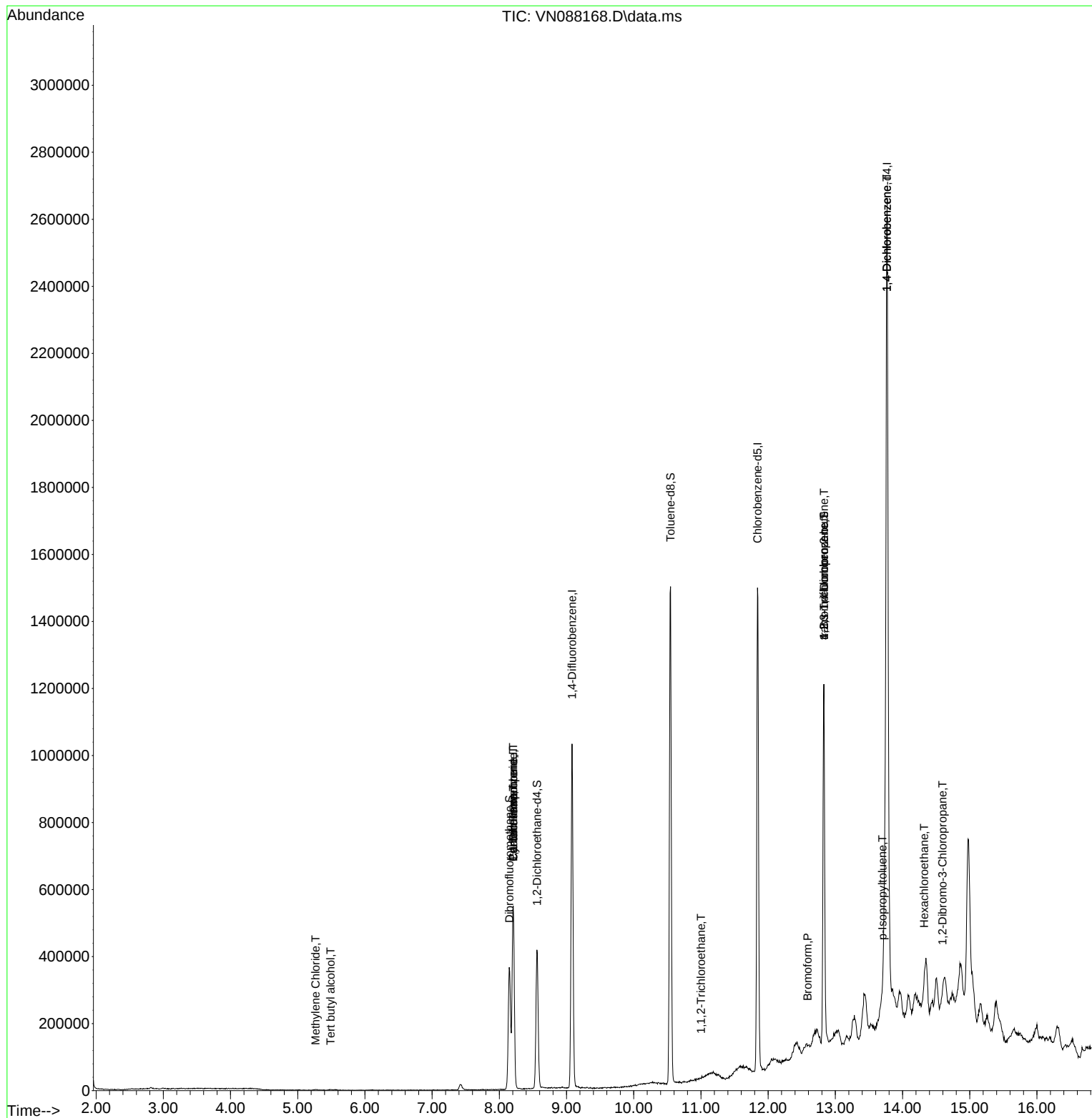
Internal Standards						
1) Pentafluorobenzene	8.206	168	371908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	833821	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	794795	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	402785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	351749	54.695	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 109.400%		
35) Dibromofluoromethane	8.147	113	262920	46.936	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 93.880%		
50) Toluene-d8	10.547	98	1017107	47.123	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 94.240%		
62) 4-Bromofluorobenzene	12.829	95	410907	53.906	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 107.820%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.489	59	2136	1.928	ug/l #	71
20) Methylene Chloride	5.265	84	1788	1.123	ug/l #	58
31) Cyclohexane	8.206	56	11259	1.251	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	39206	4.793	ug/l #	51
38) Carbon Tetrachloride	8.206	117	46365	5.489	ug/l #	15
55) 1,1,2-Trichloroethane	11.000	97	1223	0.210	ug/l #	14
71) Bromoform	12.588	173	1071	0.243	ug/l #	79
76) 1,2,3-Trichloropropane	12.829	75	230119	24.989	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	230119	69.707	ug/l #	1
86) p-Isopropyltoluene	13.700	119	35020	1.289	ug/l #	51
88) 1,4-Dichlorobenzene	13.765	146	6511	0.453	ug/l #	1
90) Hexachloroethane	14.323	117	1470	0.279	ug/l	64
92) 1,2-Dibromo-3-Chloropr...	14.594	75	1294	0.575	ug/l	67

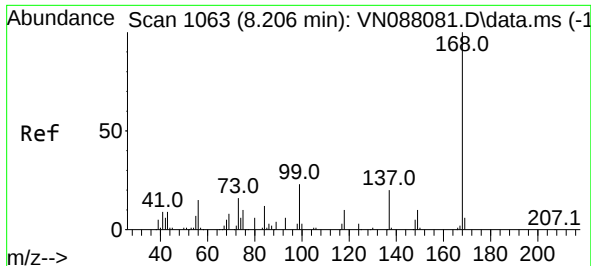
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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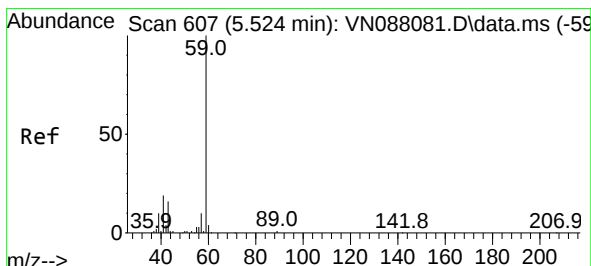
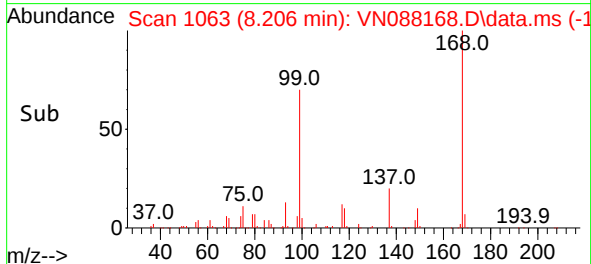
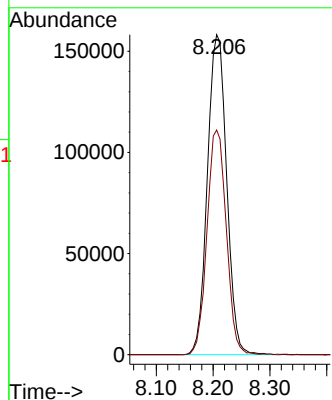
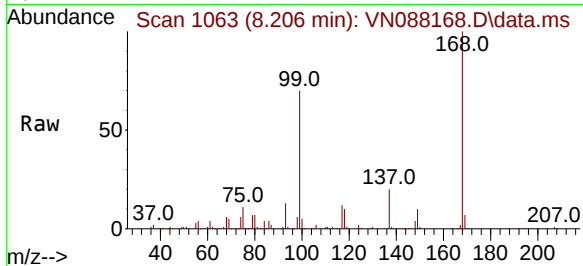




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

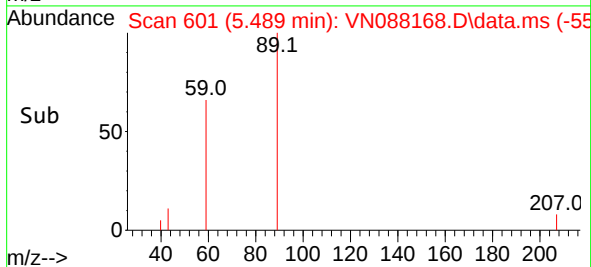
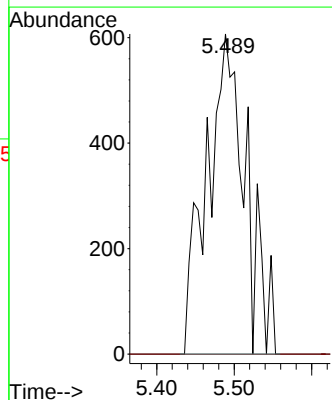
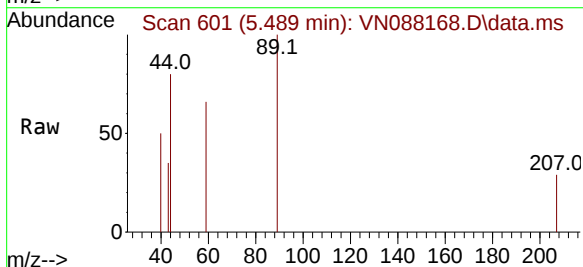
Instrument :
MSVOA_N
ClientSampleId :
IBLK

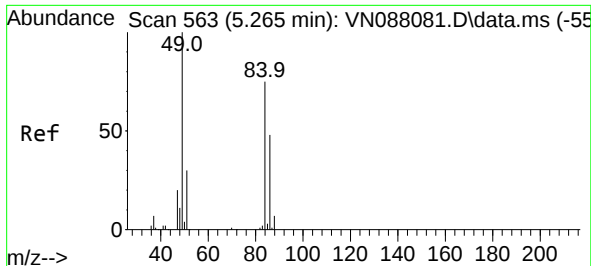
Tgt Ion:168 Resp: 371908
Ion Ratio Lower Upper
168 100
99 70.2 57.2 85.8



#11
Tert butyl alcohol
Concen: 1.928 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.029 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion: 59 Resp: 2136
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

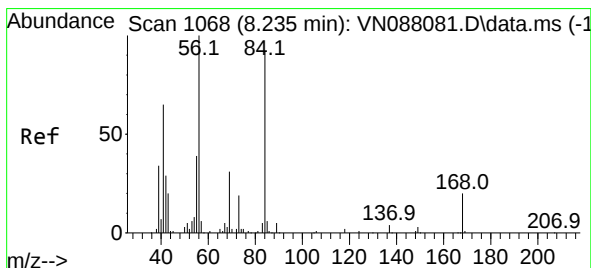
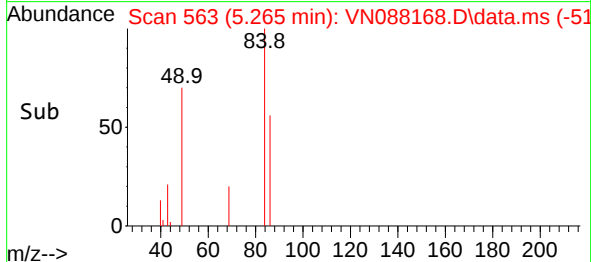
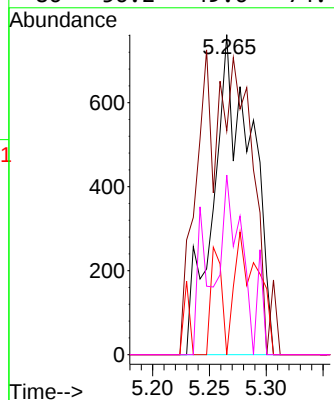
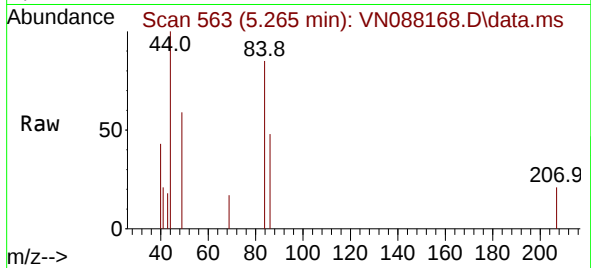




#20
Methylene Chloride
Concen: 1.123 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

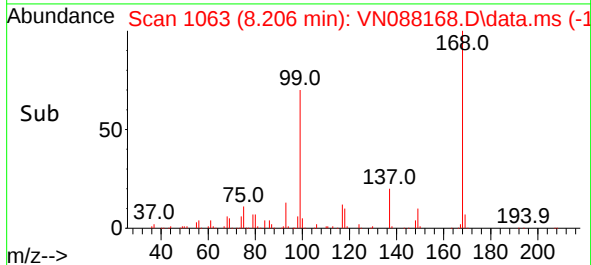
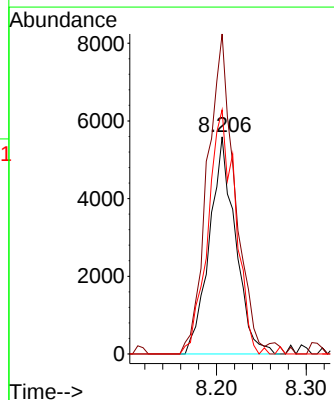
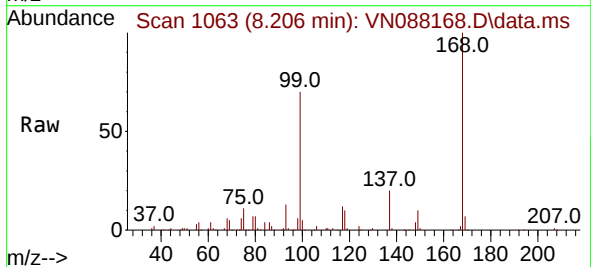
Instrument :
MSVOA_N
ClientSampleId :
IBLK

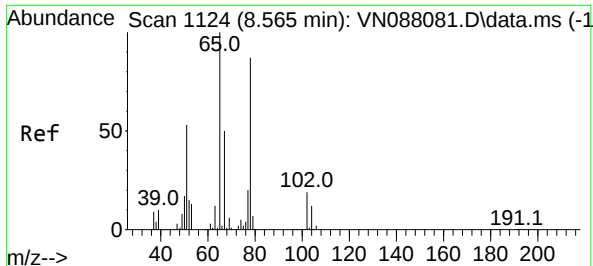
Tgt Ion:	84	Resp:	1788
Ion	Ratio	Lower	Upper
84	100		
49	69.9	103.4	155.2#
51	0.0	33.8	50.8#
86	56.2	49.6	74.4



#31
Cyclohexane
Concen: 1.251 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion:	56	Resp:	11259
Ion	Ratio	Lower	Upper
56	100		
69	147.4	23.7	35.5#
84	112.5	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 54.695 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088168.D

Acq: 29 Oct 2025 17:52

Instrument :

MSVOA_N

ClientSampleId :

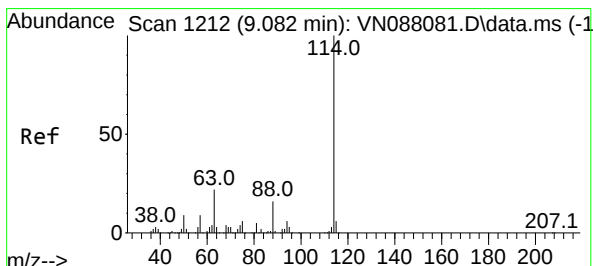
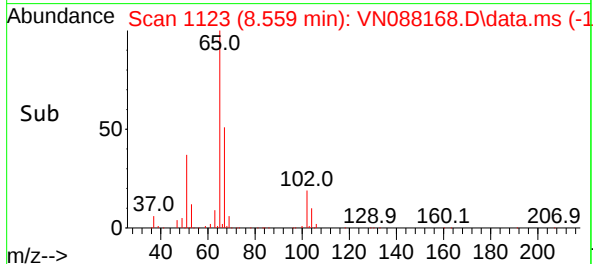
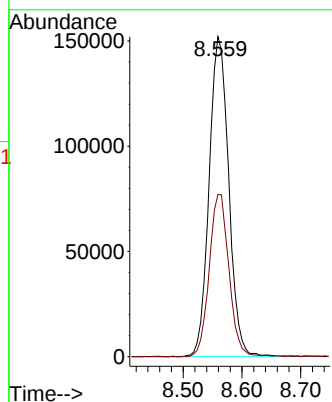
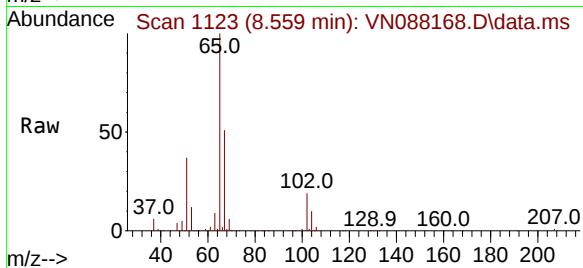
IBLK

Tgt Ion: 65 Resp: 351749

Ion Ratio Lower Upper

65 100

67 51.1 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088168.D

Acq: 29 Oct 2025 17:52

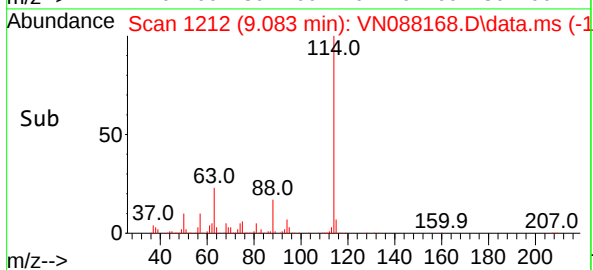
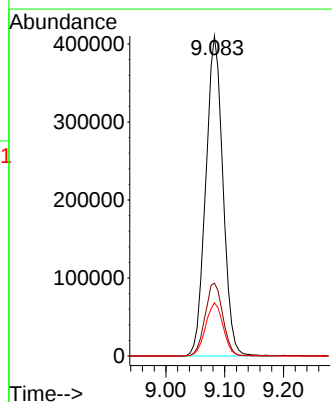
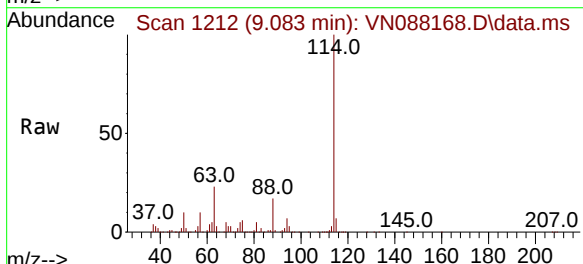
Tgt Ion: 114 Resp: 833821

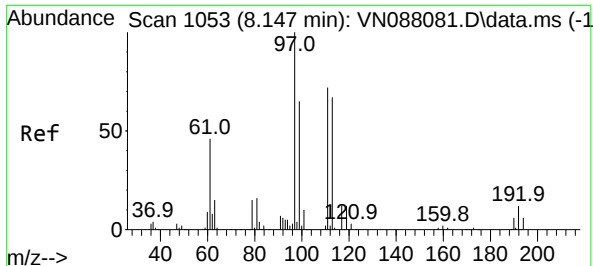
Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.2

88 16.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 46.936 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088168.D

Acq: 29 Oct 2025 17:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

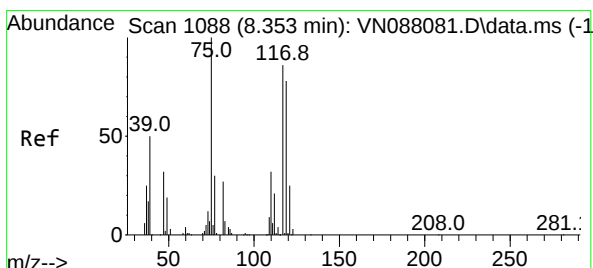
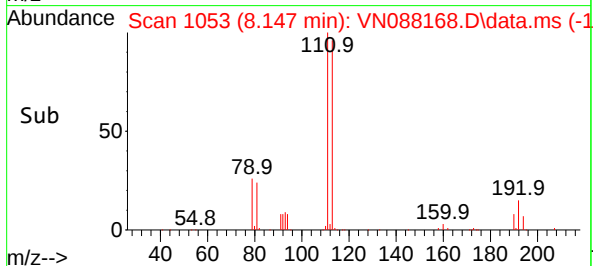
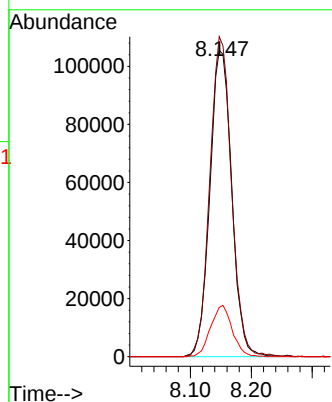
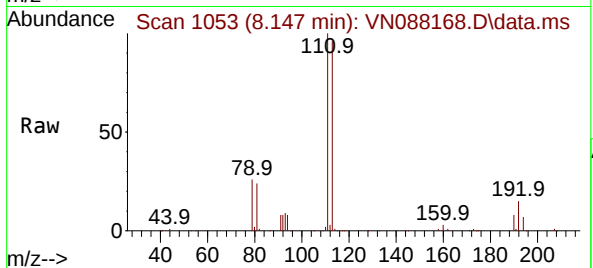
Tgt Ion:113 Resp: 262920

Ion Ratio Lower Upper

113 100

111 103.4 82.8 124.2

192 16.6 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.793 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088168.D

Acq: 29 Oct 2025 17:52

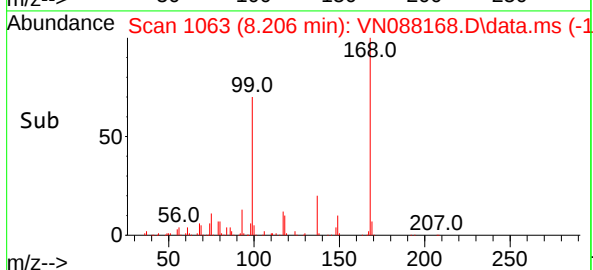
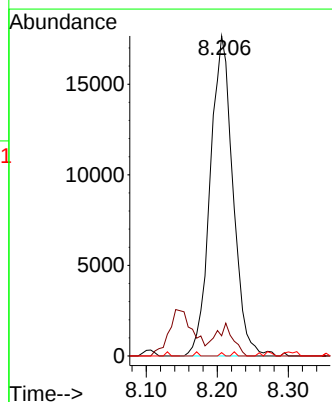
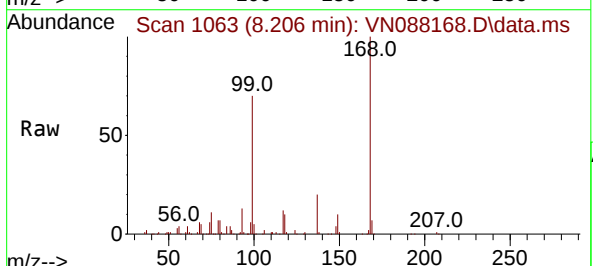
Tgt Ion: 75 Resp: 39206

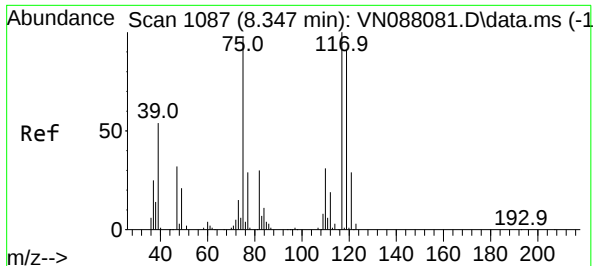
Ion Ratio Lower Upper

75 100

110 8.0 15.9 47.6#

77 0.2 24.4 36.6#

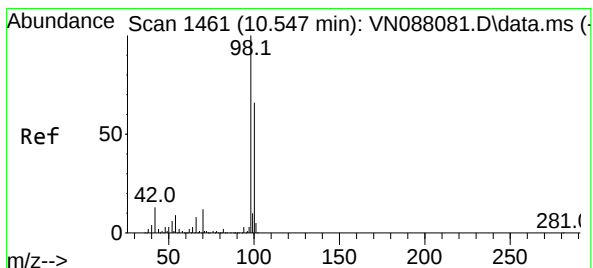
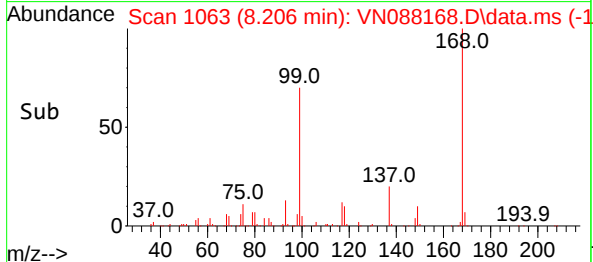
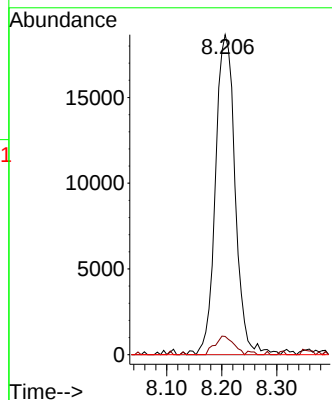
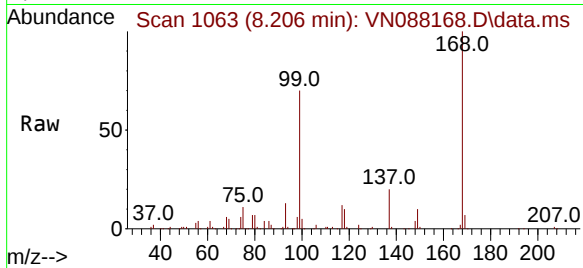




#38
Carbon Tetrachloride
Concen: 5.489 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

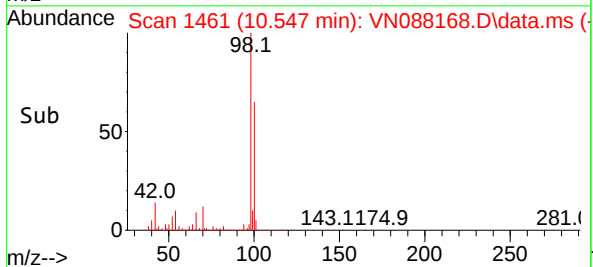
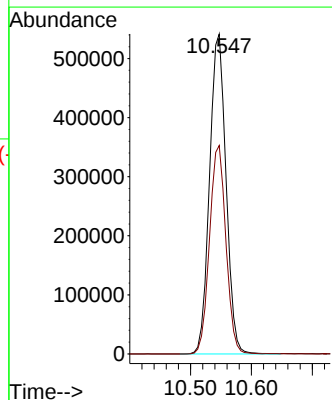
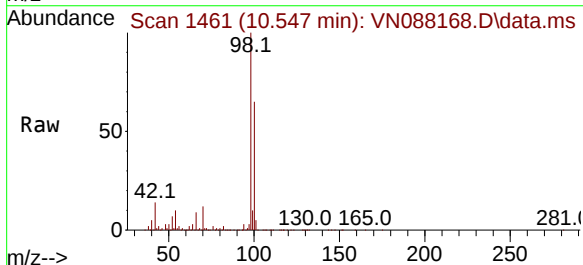
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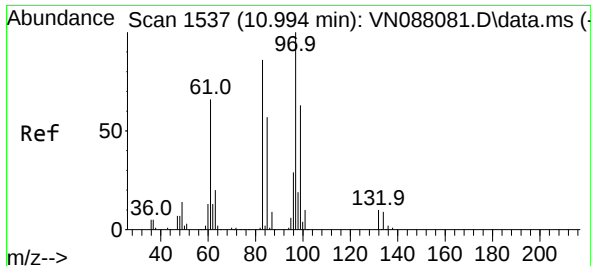
Tgt Ion:117 Resp: 46365
Ion Ratio Lower Upper
117 100
119 5.7 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 47.123 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion: 98 Resp: 1017107
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2

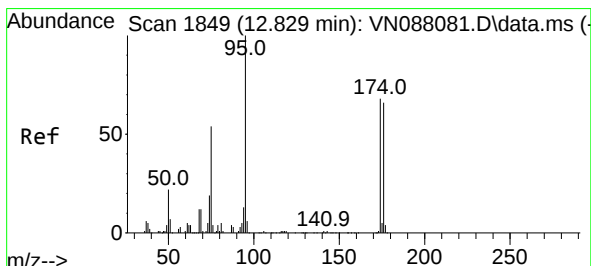
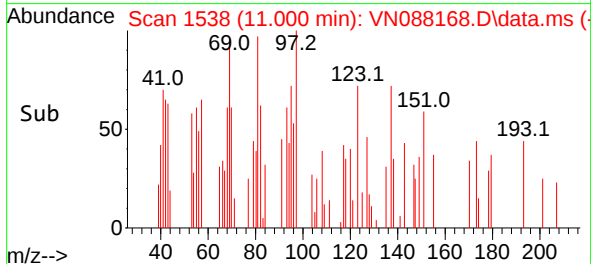
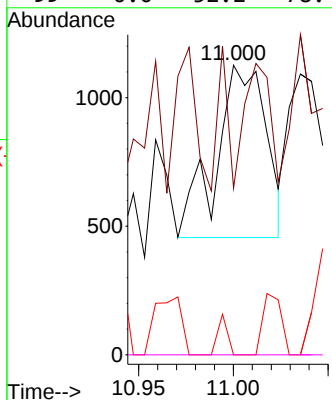
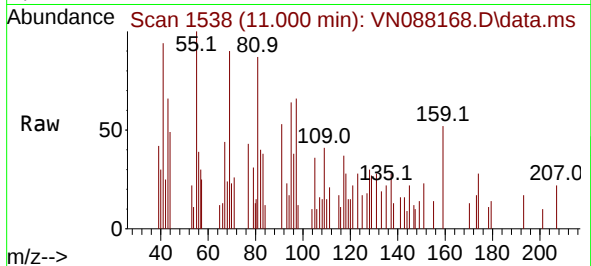




#55
1,1,2-Trichloroethane
Concen: 0.210 ug/l
RT: 11.000 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

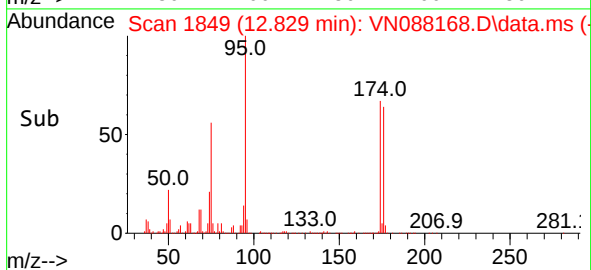
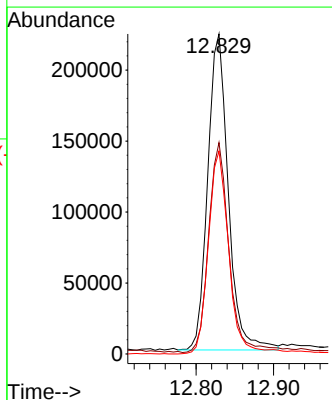
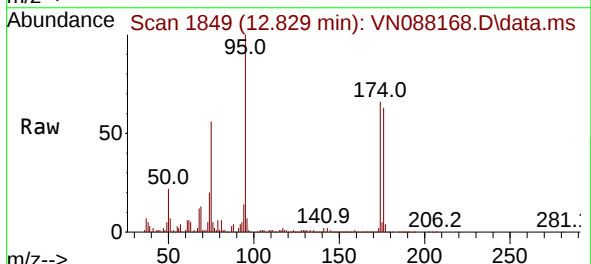
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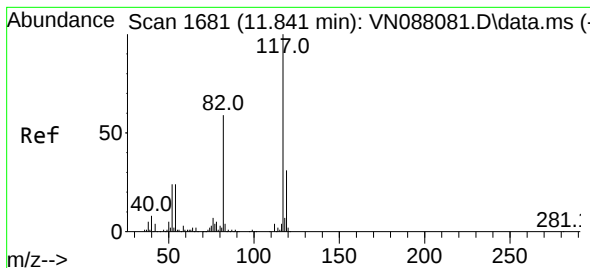
Tgt Ion:	97	Resp:	1223
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.2	102.4#
85	0.0	45.5	68.3#
99	0.0	52.2	78.4#



#62
4-Bromofluorobenzene
Concen: 53.906 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion:	95	Resp:	410907
Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	138.4
176	63.8	0.0	132.6

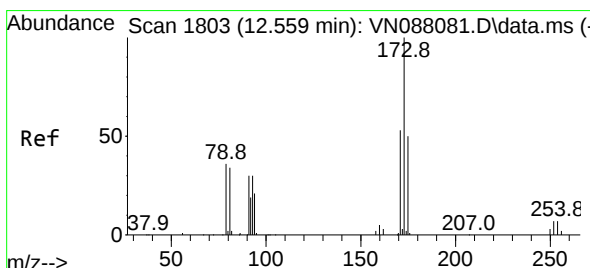
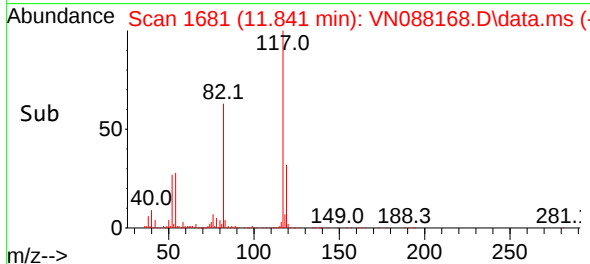
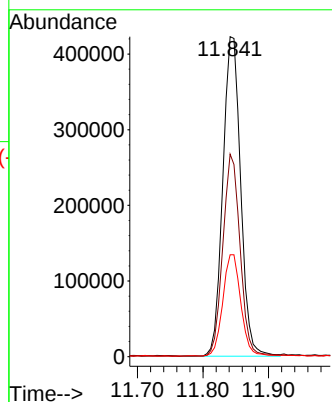
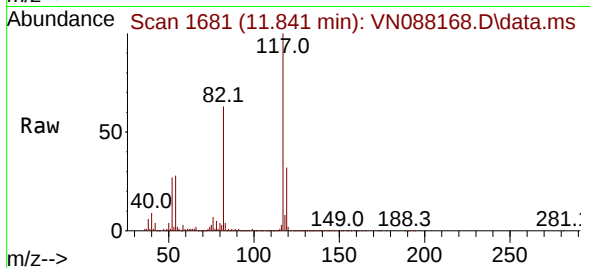




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

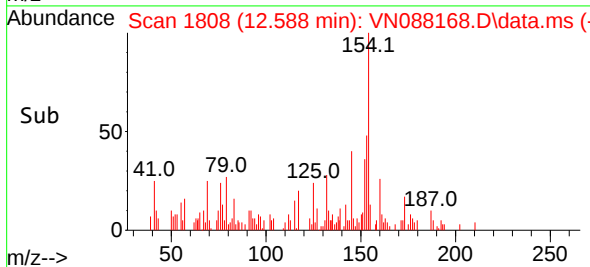
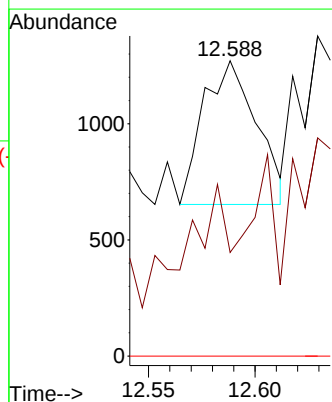
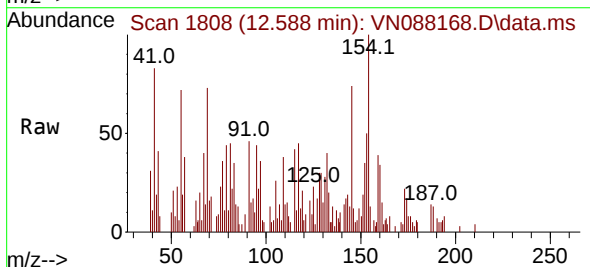
Instrument :
MSVOA_N
ClientSampleId :
IBLK

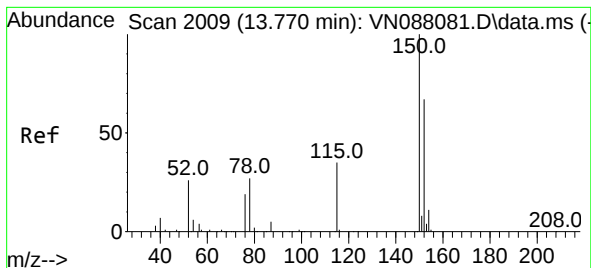
Tgt Ion:117 Resp: 794795
Ion Ratio Lower Upper
117 100
82 63.3 47.4 71.2
119 31.6 24.3 36.5



#71
Bromoform
Concen: 0.243 ug/l
RT: 12.588 min Scan# 1808
Delta R.T. 0.029 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion:173 Resp: 1071
Ion Ratio Lower Upper
173 100
175 64.4 24.9 74.6
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088168.D

Acq: 29 Oct 2025 17:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

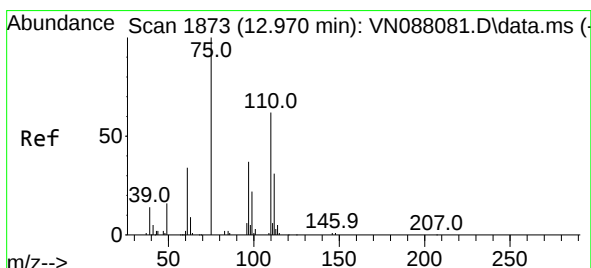
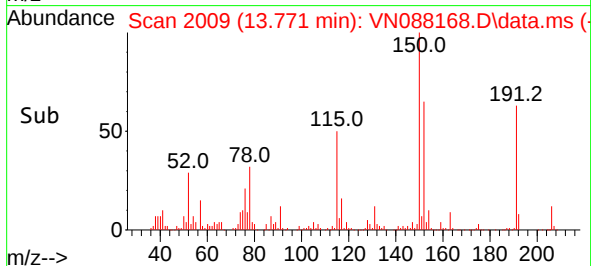
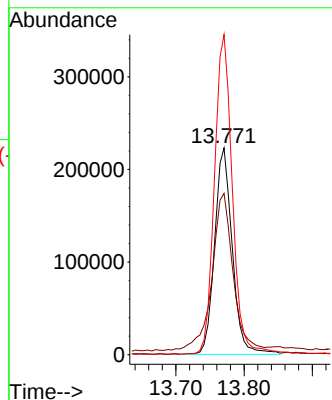
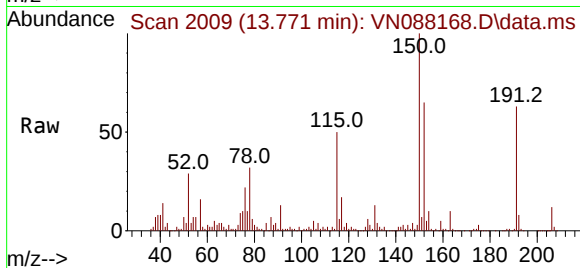
Tgt Ion:152 Resp: 402785

Ion Ratio Lower Upper

152 100

115 90.0 32.3 96.8

150 157.0 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 24.989 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088168.D

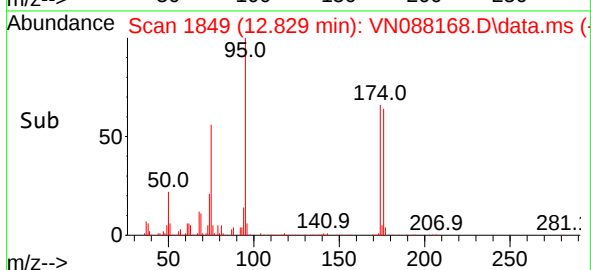
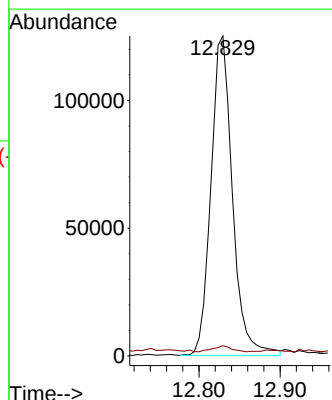
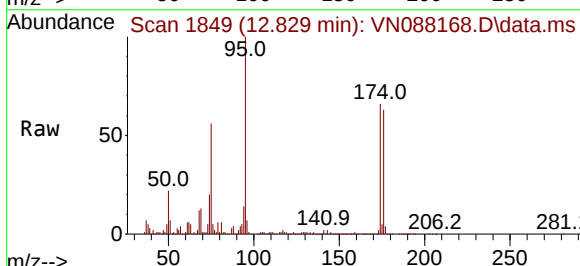
Acq: 29 Oct 2025 17:52

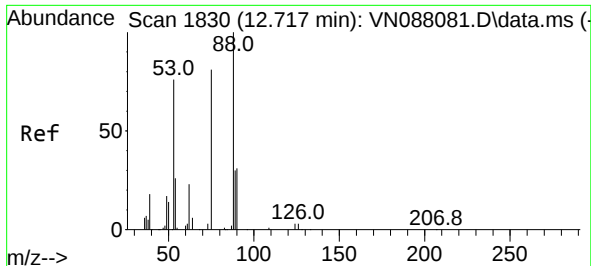
Tgt Ion: 75 Resp: 230119

Ion Ratio Lower Upper

75 100

77 1.6 89.1 267.4#

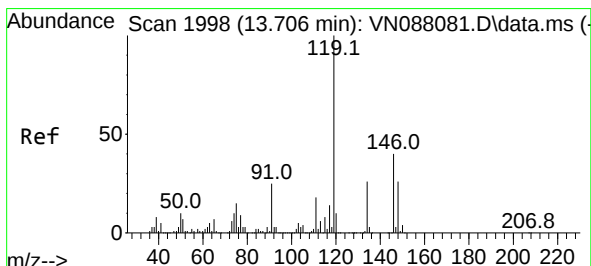
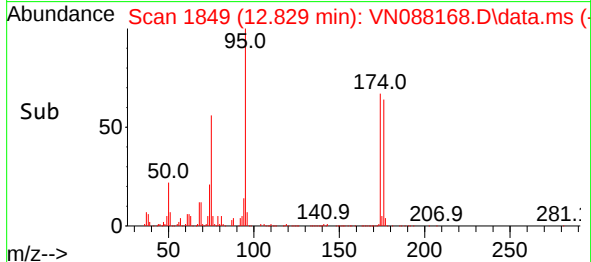
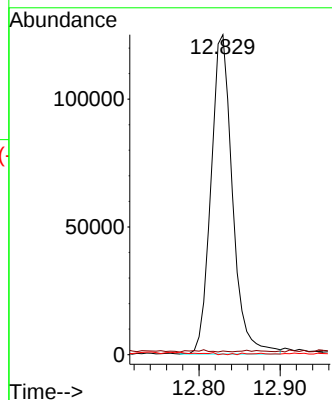
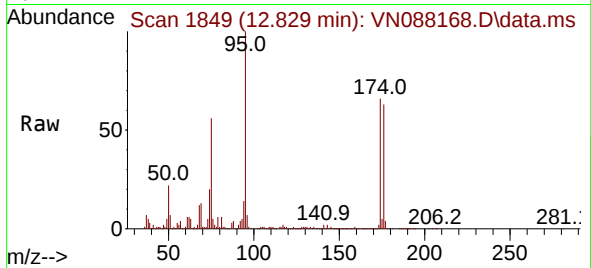




#81
trans-1,4-Dichloro-2-butene
Concen: 69.707 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

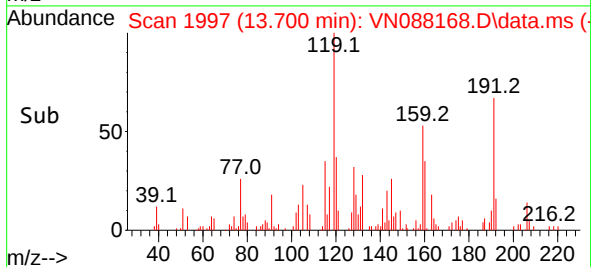
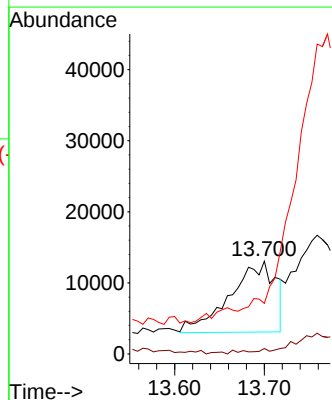
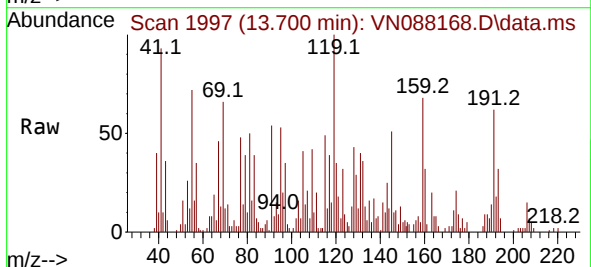
Instrument :
MSVOA_N
ClientSampleId :
IBLK

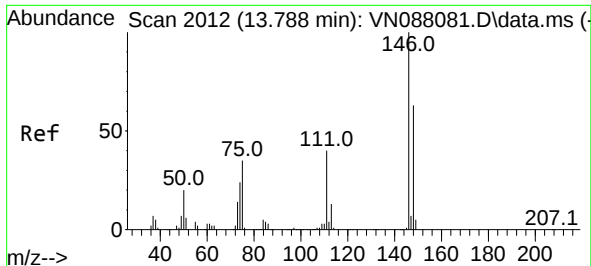
Tgt Ion: 75 Resp: 230119
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#



#86
p-Isopropyltoluene
Concen: 1.289 ug/l
RT: 13.700 min Scan# 1997
Delta R.T. -0.006 min
Lab File: VN088168.D
Acq: 29 Oct 2025 17:52

Tgt Ion: 119 Resp: 35020
Ion Ratio Lower Upper
119 100
134 0.9 12.7 38.0#
91 0.0 12.5 37.5#

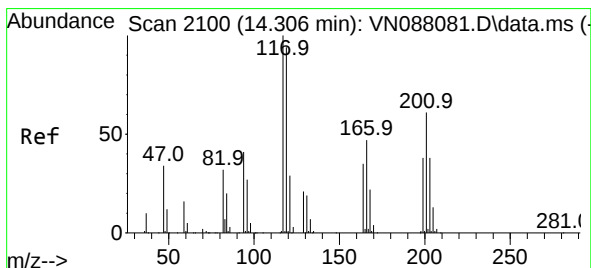
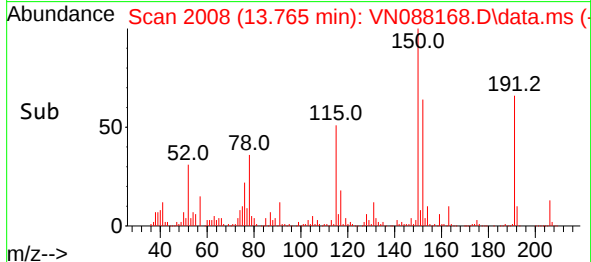
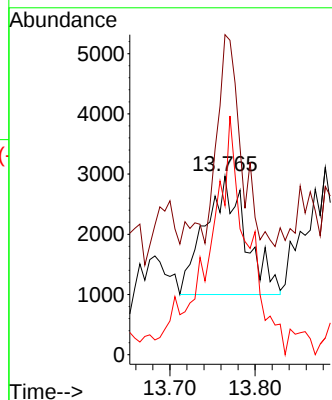
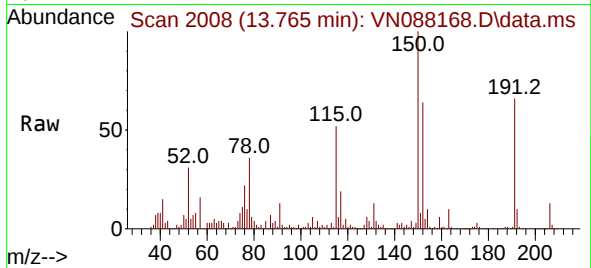




#88
 1,4-Dichlorobenzene
 Concen: 0.453 ug/l
 RT: 13.765 min Scan# 2012
 Delta R.T. -0.023 min
 Lab File: VN088168.D
 Acq: 29 Oct 2025 17:52

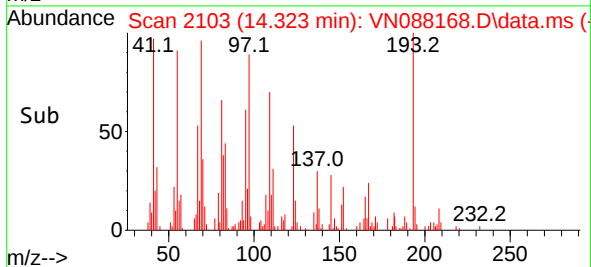
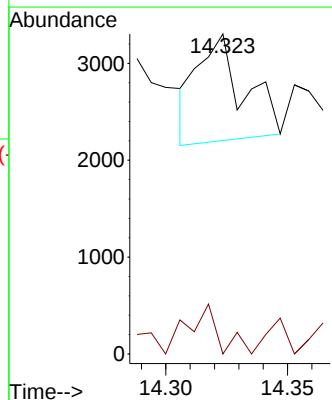
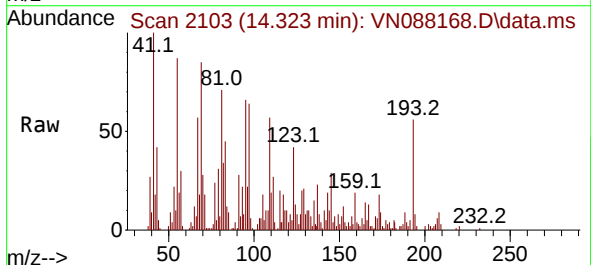
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

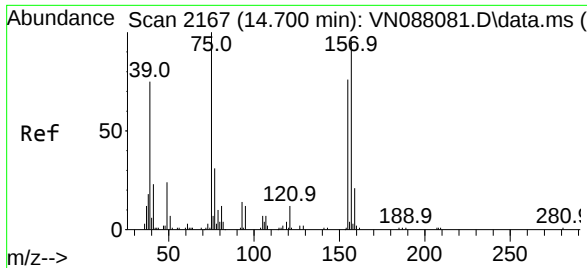
Tgt Ion:146 Resp: 6511
 Ion Ratio Lower Upper
 146 100
 111 104.5 21.0 63.0#
 148 173.0 32.0 96.0#



#90
 Hexachloroethane
 Concen: 0.279 ug/l
 RT: 14.323 min Scan# 2103
 Delta R.T. 0.012 min
 Lab File: VN088168.D
 Acq: 29 Oct 2025 17:52

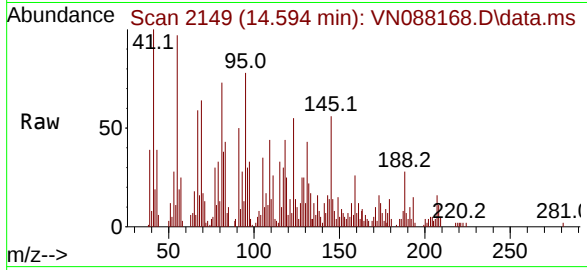
Tgt Ion:117 Resp: 1470
 Ion Ratio Lower Upper
 117 100
 201 31.7 29.1 87.4





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.575 ug/l
 RT: 14.594 min Scan# 2167
 Delta R.T. -0.106 min
 Lab File: VN088168.D
 Acq: 29 Oct 2025 17:52

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion: 75 Resp: 1294

Ion	Ratio	Lower	Upper
75	100		
155	39.8	36.6	109.9
157	64.5	45.6	136.9

