

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087618.D
 Acq On : 21 Aug 2025 11:36
 Operator : JC\MD
 Sample : VN0821WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0821WBL01

Quant Time: Aug 22 03:14:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

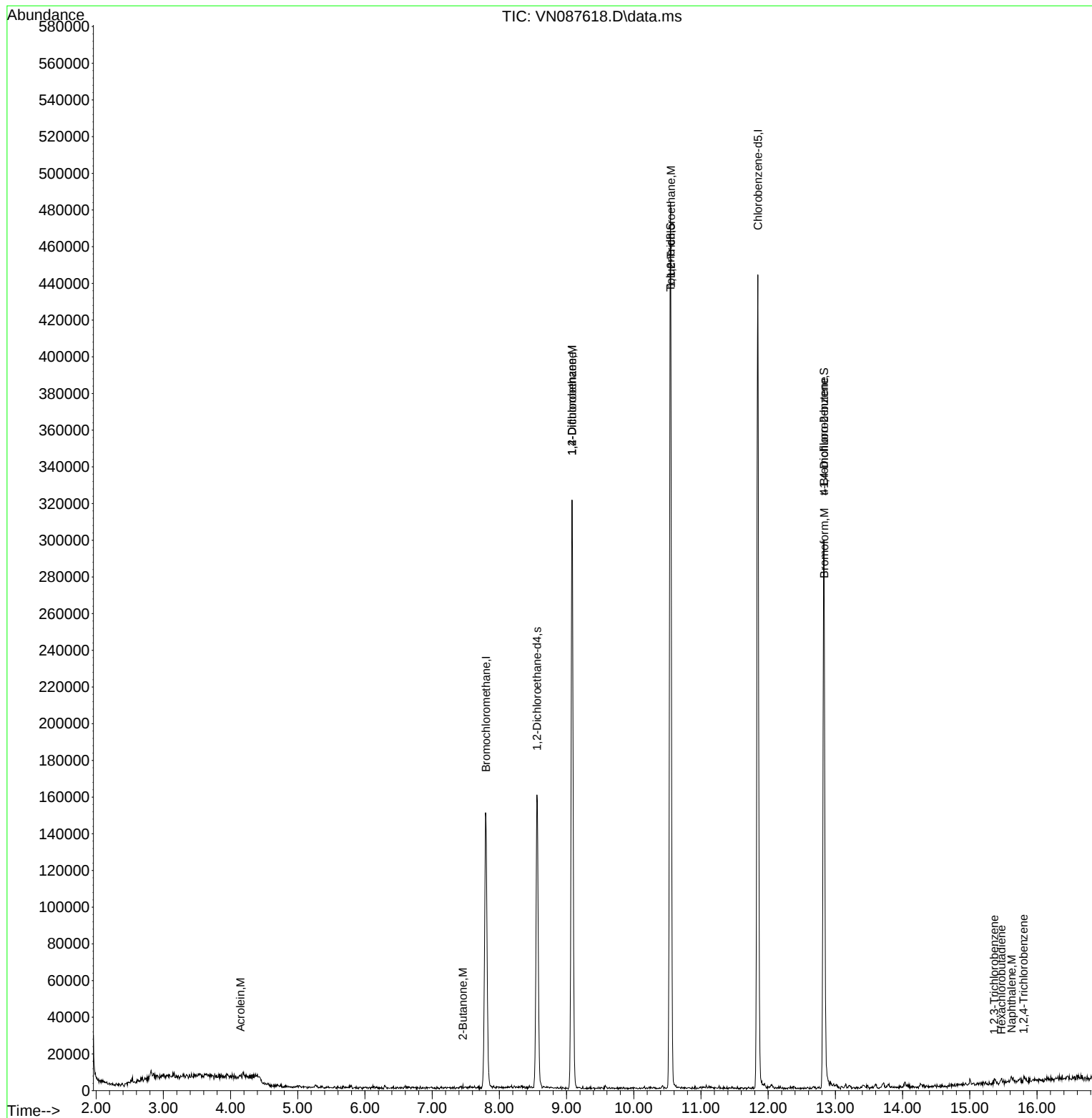
Internal Standards						
1) Bromochloromethane	7.800	128	50313	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	262111	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	233273	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	134893	29.068	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.900%
60) 4-Bromofluorobenzene	12.829	95	107080	26.673	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.900%
63) Toluene-d8	10.547	98	323492	30.139	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.467%
Target Compounds						
					Qvalue	
13) Acrolein	4.147	56	343	0.442	ug/l	94
30) 2-Butanone	7.459	43	745	0.236	ug/l #	57
36) 1,2-Dichloroethane	9.082	62	10977	2.013	ug/l #	77
50) 1,1,2-Trichloroethane	10.553	97	11487	3.502	ug/l #	1
56) Bromoform	12.835	173	1102	0.440	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	60154	33.815	ug/l #	3
89) 1,2,4-Trichlorobenzene	15.800	180	889	0.240	ug/l #	52
90) Hexachlorobutadiene	15.470	225	334	0.232	ug/l #	24
91) Naphthalene	15.623	128	3151	0.223	ug/l #	73
92) 1,2,3-Trichlorobenzene	15.364	180	808	0.218	ug/l	59

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087618.D
Acq On : 21 Aug 2025 11:36
Operator : JC\MD
Sample : VN0821WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

Quant Time: Aug 22 03:14:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 06 02:01:21 2025
Response via : Initial Calibration

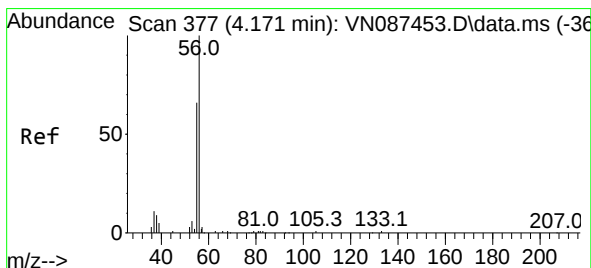
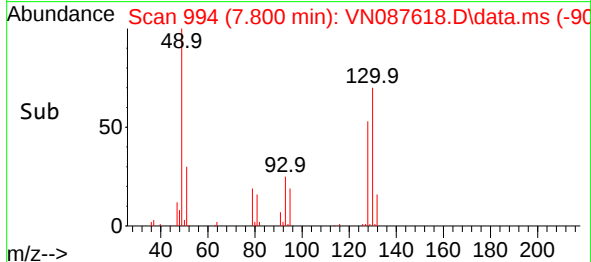
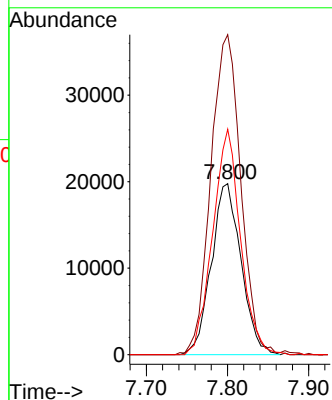
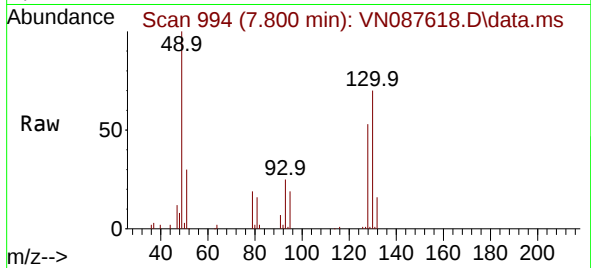




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

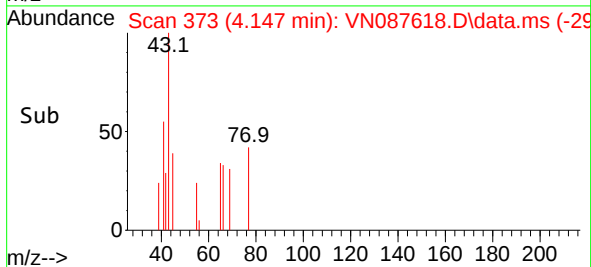
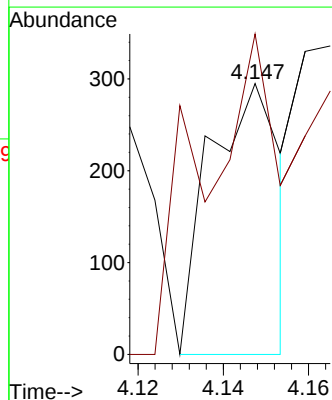
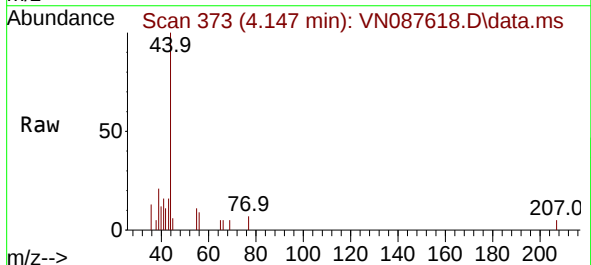
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

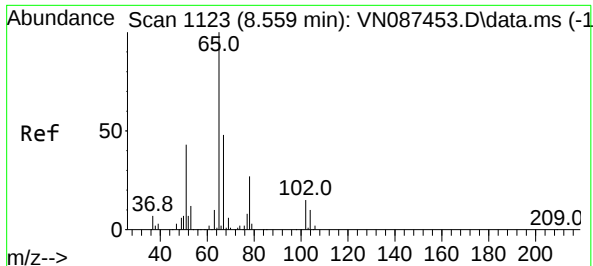
Tgt Ion:128 Resp: 50313
Ion Ratio Lower Upper
128 100
49 188.4 0.0 494.8
130 123.8 0.0 321.5



#13
Acrolein
Concen: 0.442 ug/l
RT: 4.147 min Scan# 373
Delta R.T. -0.024 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion: 56 Resp: 343
Ion Ratio Lower Upper
56 100
55 76.7 57.4 86.0

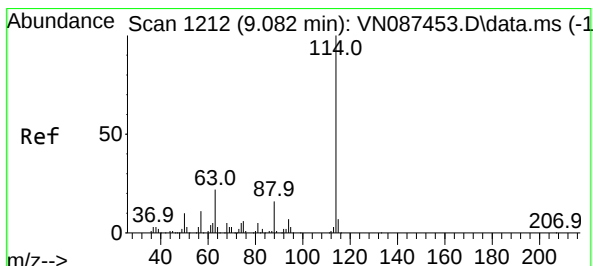
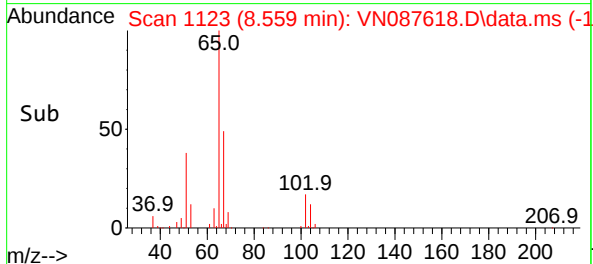
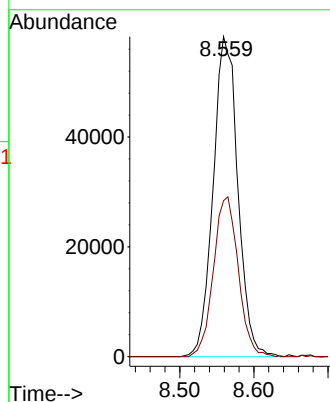
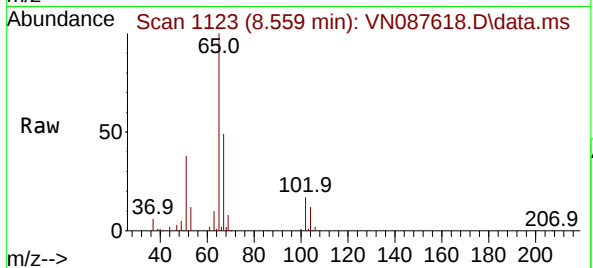




#27
1,2-Dichloroethane-d4
Concen: 29.068 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

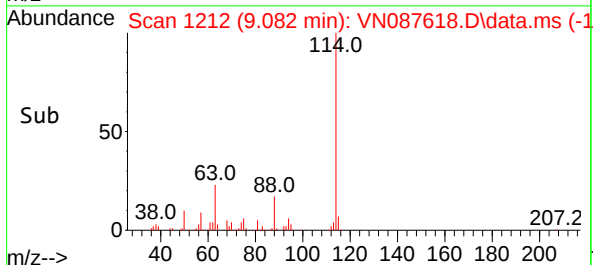
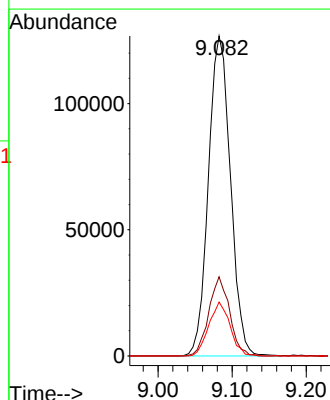
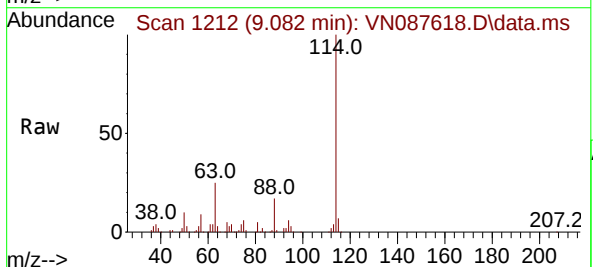
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

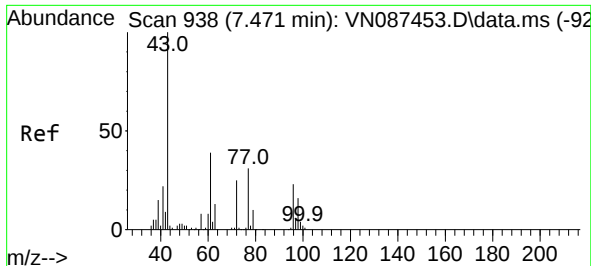
Tgt Ion: 65 Resp: 134893
Ion Ratio Lower Upper
65 100
67 50.1 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion: 114 Resp: 262111
Ion Ratio Lower Upper
114 100
63 23.4 18.9 28.3
88 16.2 13.1 19.7





#30

2-Butanone

Concen: 0.236 ug/l

RT: 7.459 min Scan# 91

Delta R.T. -0.012 min

Lab File: VN087618.D

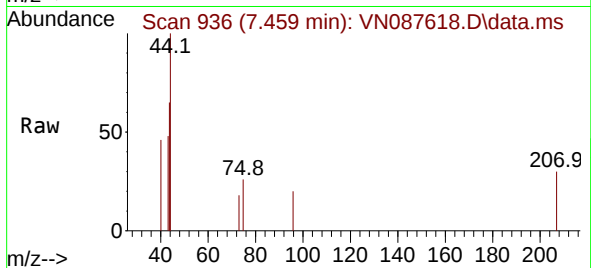
Acq: 21 Aug 2025 11:36

Instrument :

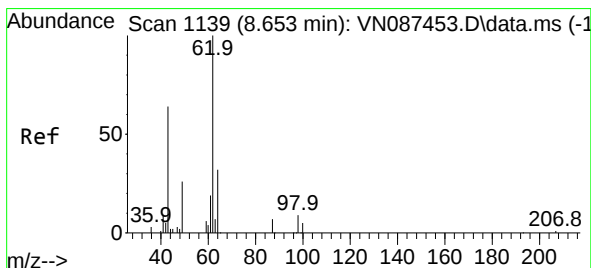
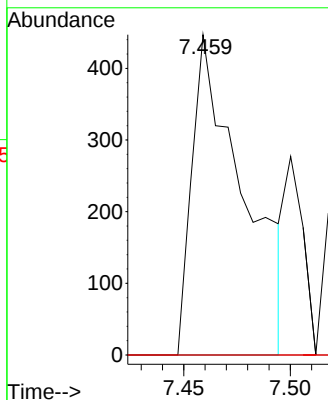
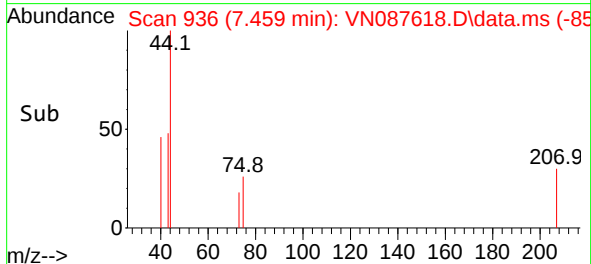
MSVOA_N

ClientSampleId :

VN0821WBL01



Tgt Ion:	43	Resp:	745
Ion	Ratio	Lower	Upper
43	100		
57	0.0	6.6	9.8#
72	0.0	19.7	29.5#



#36

1,2-Dichloroethane

Concen: 2.013 ug/l

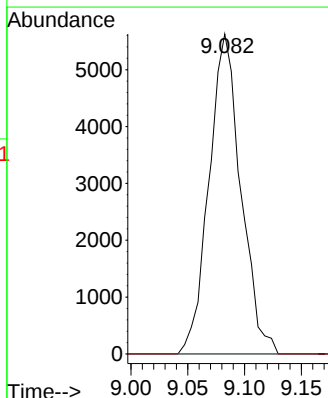
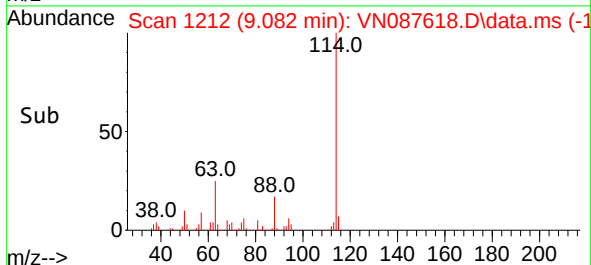
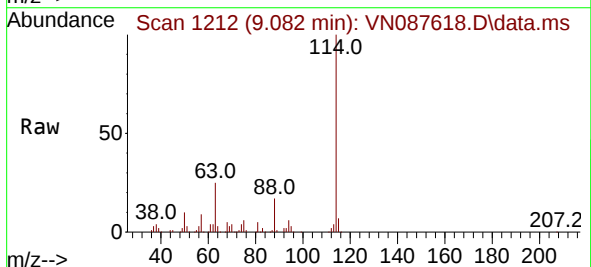
RT: 9.082 min Scan# 1212

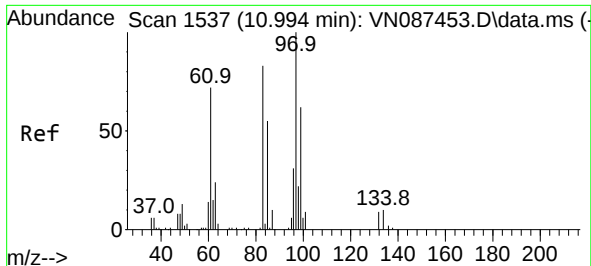
Delta R.T. 0.429 min

Lab File: VN087618.D

Acq: 21 Aug 2025 11:36

Tgt Ion:	62	Resp:	10977
Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.6	9.8#

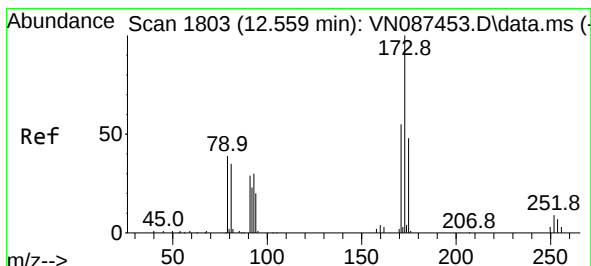
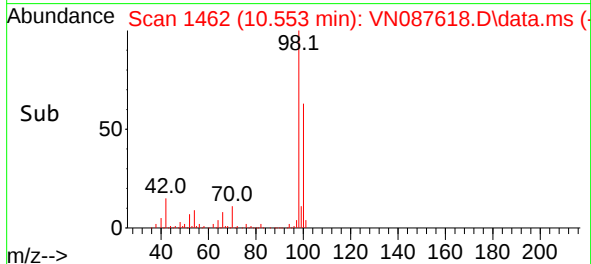
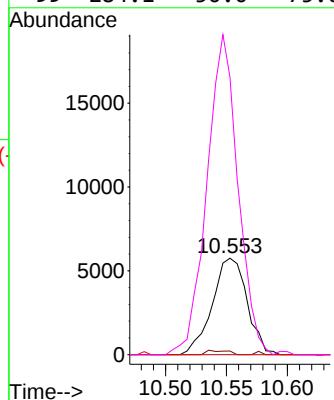
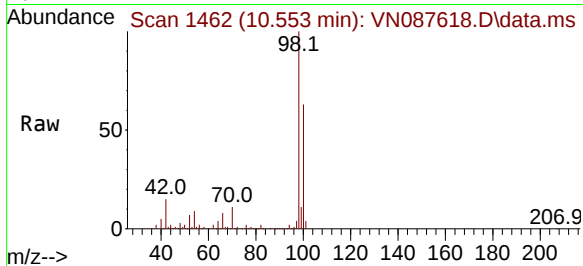




#50
1,1,2-Trichloroethane
Concen: 3.502 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

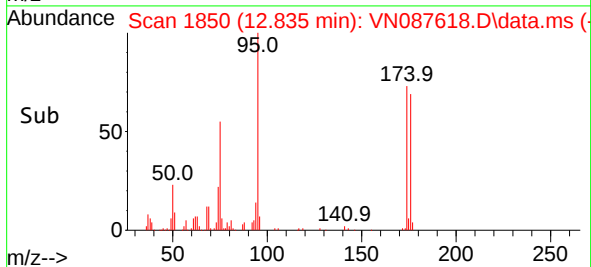
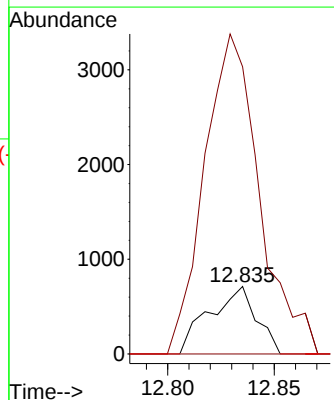
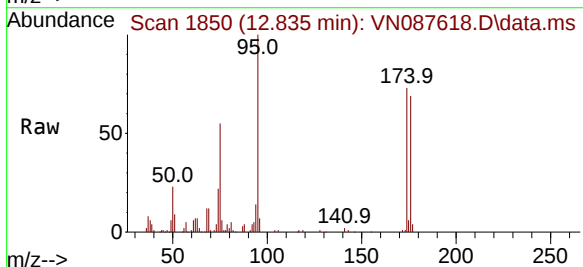
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

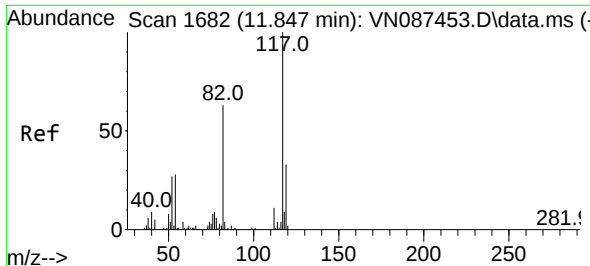
Tgt Ion:	97	Resp:	11487
Ion	Ratio	Lower	Upper
97	100		
83	3.8	66.2	99.2#
85	0.0	43.9	65.9#
99	284.1	50.0	75.0#



#56
Bromoform
Concen: 0.440 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.276 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion:	173	Resp:	1102
Ion	Ratio	Lower	Upper
173	100		
175	552.2	38.8	58.2#
254	0.0	3.9	5.9#

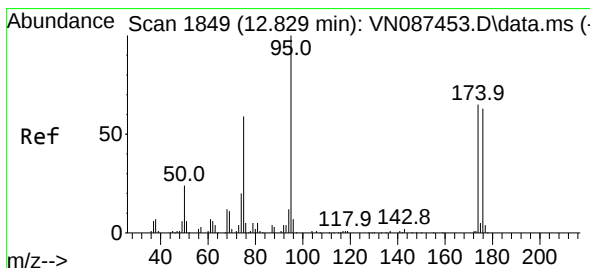
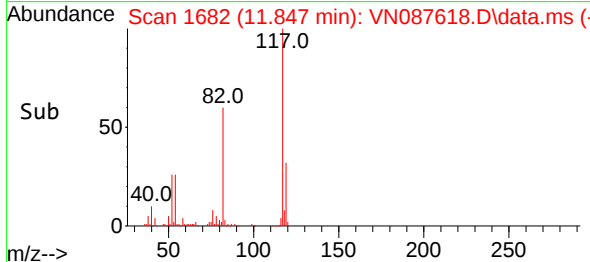
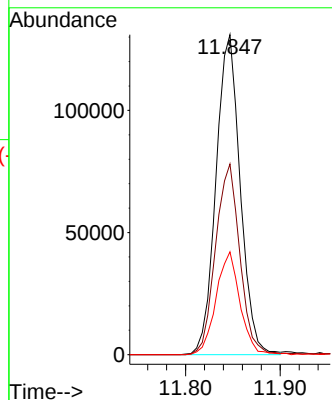
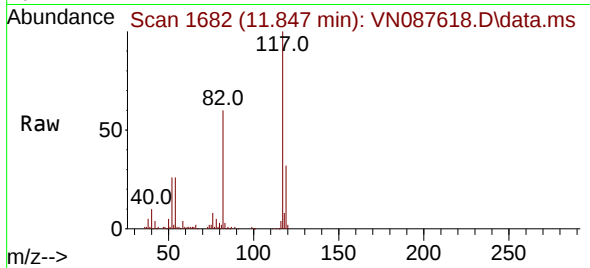




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

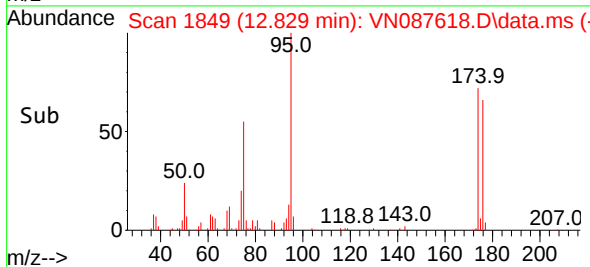
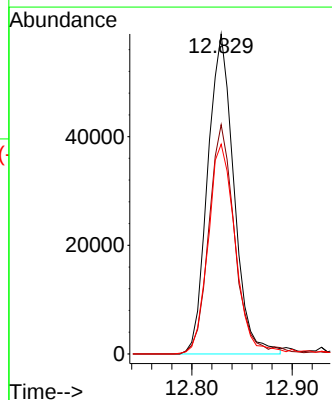
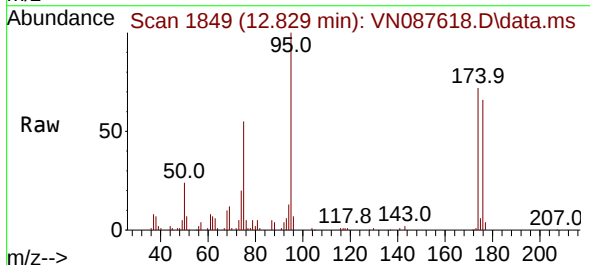
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

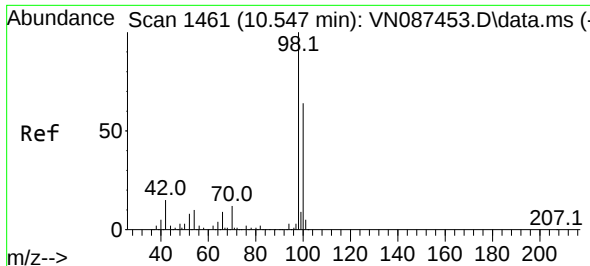
Tgt Ion:117 Resp: 233273
Ion Ratio Lower Upper
117 100
82 59.3 49.2 73.8
119 31.7 25.7 38.5



#60
4-Bromofluorobenzene
Concen: 26.673 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion: 95 Resp: 107080
Ion Ratio Lower Upper
95 100
174 69.7 52.3 78.5
176 67.7 49.8 74.8

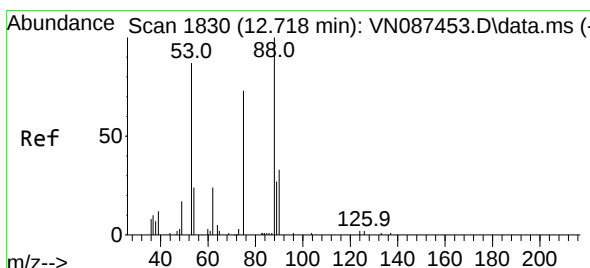
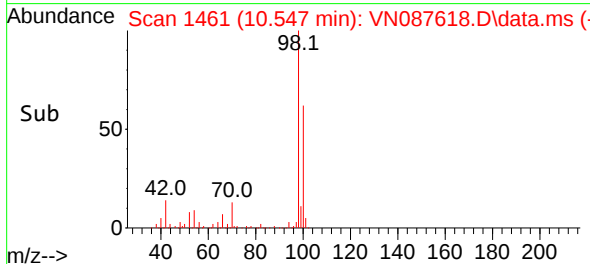
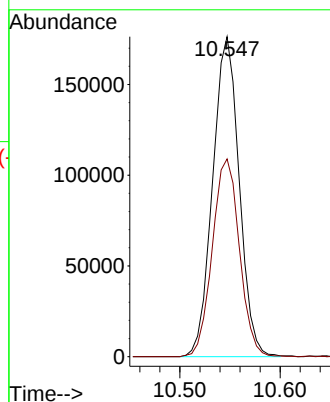
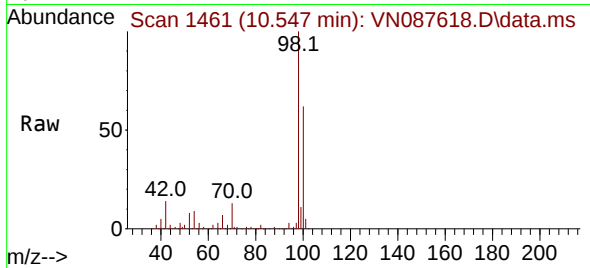




#63
Toluene-d8
Concen: 30.139 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

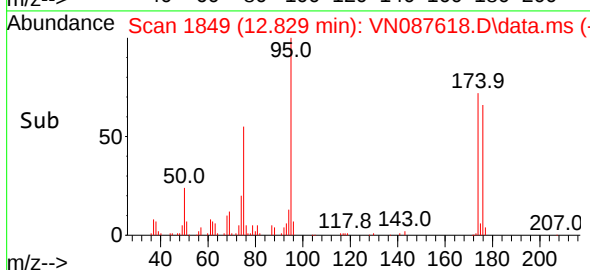
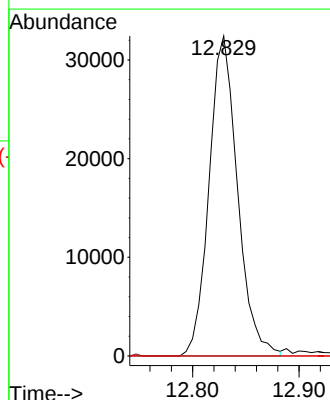
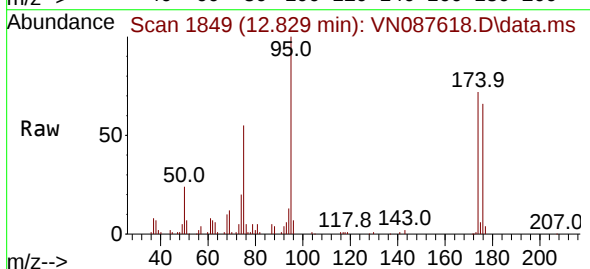
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

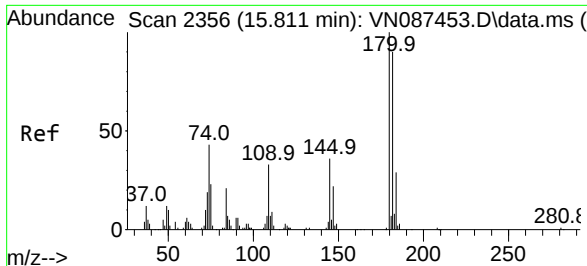
Tgt Ion: 98 Resp: 323492
Ion Ratio Lower Upper
98 100
100 63.2 50.5 75.7



#77
t-1,4-Dichloro-2-butene
Concen: 33.815 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion: 75 Resp: 60154
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#

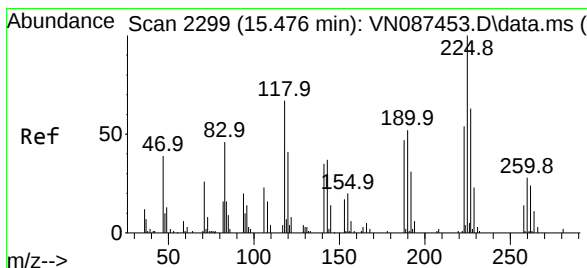
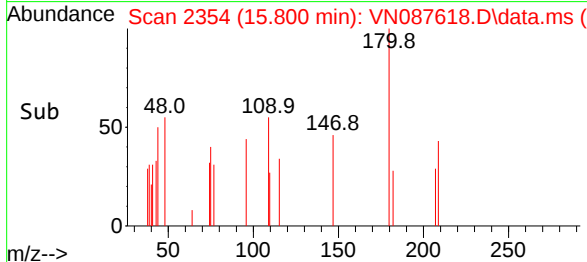
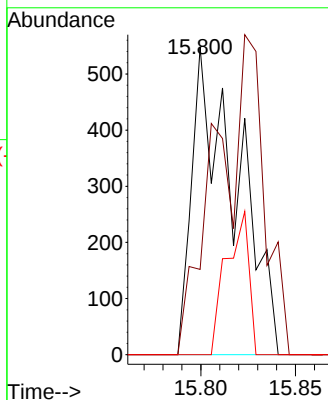
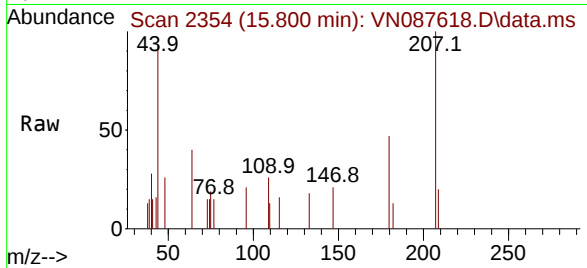




#89
1,2,4-Trichlorobenzene
Concen: 0.240 ug/l
RT: 15.800 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

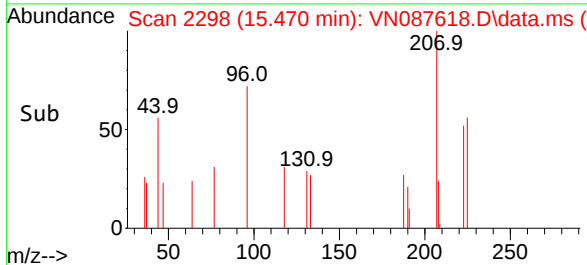
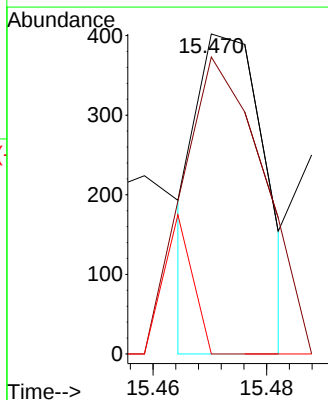
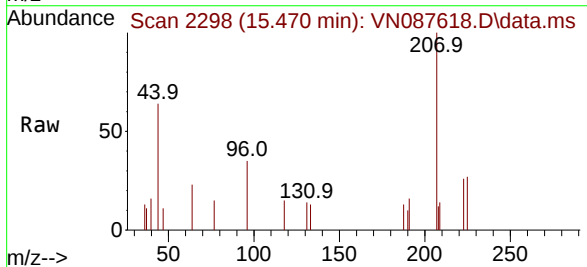
Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL01

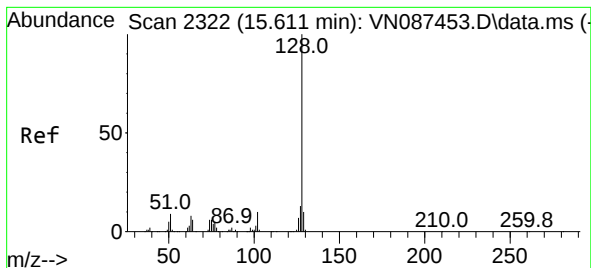
Tgt Ion:180 Resp: 889
Ion Ratio Lower Upper
180 100
182 52.9 75.0 112.4#
145 0.0 28.6 43.0#



#90
Hexachlorobutadiene
Concen: 0.232 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN087618.D
Acq: 21 Aug 2025 11:36

Tgt Ion:225 Resp: 334
Ion Ratio Lower Upper
225 100
223 109.9 0.0 116.0
227 0.0 0.0 127.0





#91

Naphthalene

Concen: 0.223 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN087618.D

Acq: 21 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN0821WBL01

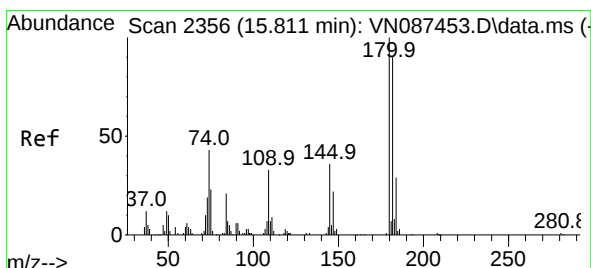
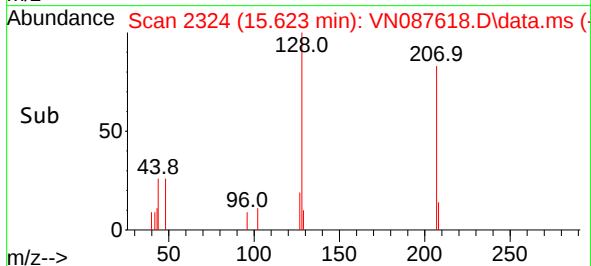
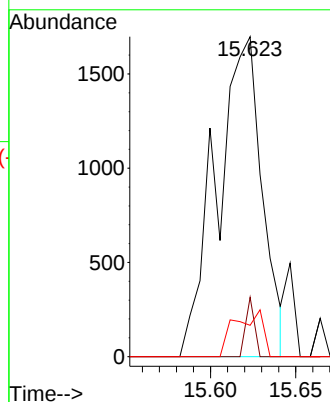
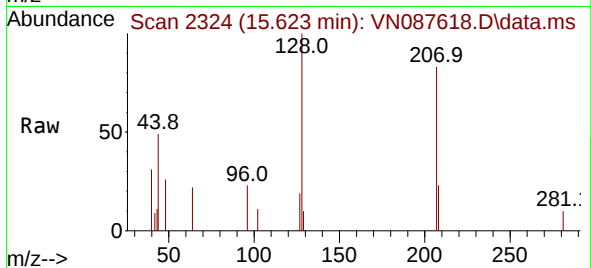
Tgt Ion:128 Resp: 3151

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 2.8 8.9 13.3#



#92

1,2,3-Trichlorobenzene

Concen: 0.218 ug/l

RT: 15.364 min Scan# 2280

Delta R.T. -0.447 min

Lab File: VN087618.D

Acq: 21 Aug 2025 11:36

Tgt Ion:180 Resp: 808

Ion Ratio Lower Upper

180 100

182 45.7 0.0 187.4

145 25.4 0.0 71.6

