

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088075.D
 Acq On : 20 Oct 2025 10:55
 Operator : JC\MD
 Sample : VN1020WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 21 05:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

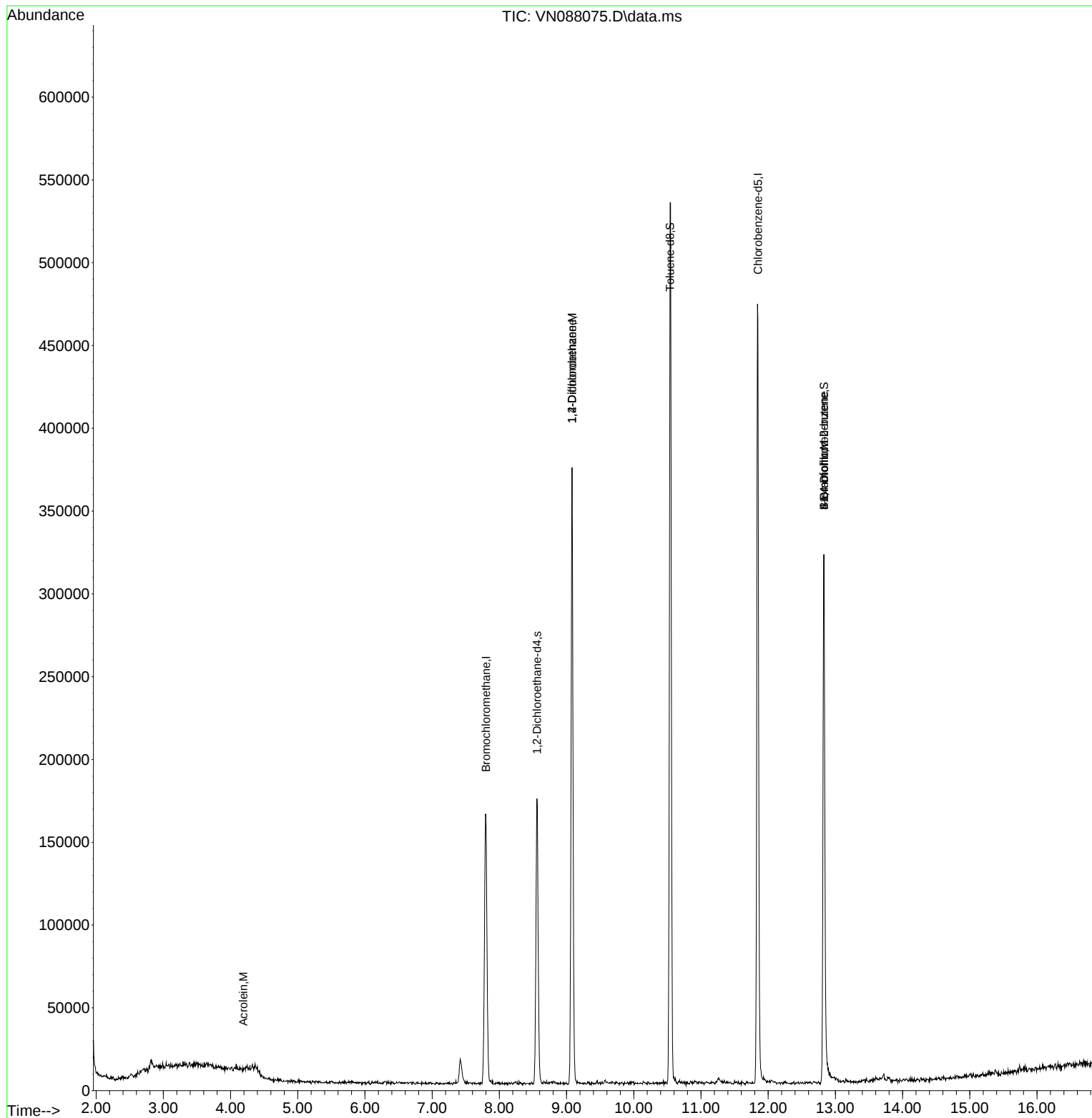
Internal Standards						
1) Bromochloromethane	7.800	128	56116	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	302542	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	267258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142234	32.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 108.500%	
60) 4-Bromofluorobenzene	12.829	95	125221	28.421	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.733%	
63) Toluene-d8	10.541	98	366105	30.746	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.500%	
Target Compounds						
					Qvalue	
13) Acrolein	4.189	56	295	0.397	ug/l #	99
36) 1,2-Dichloroethane	9.083	62	12613	2.526	ug/l #	74
56) Bromoform	12.829	173	1177	0.419	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	71234	36.614	ug/l #	17

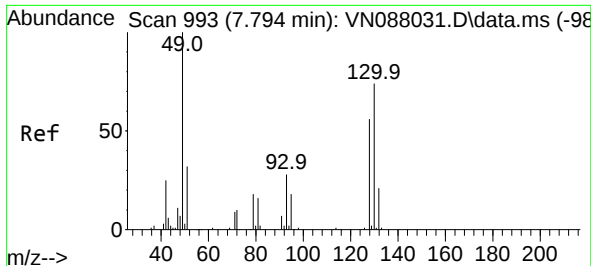
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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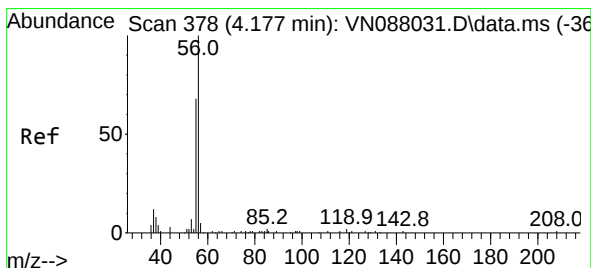
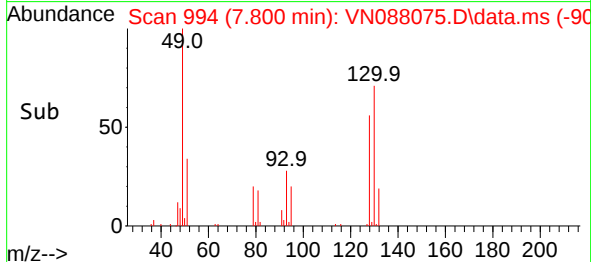
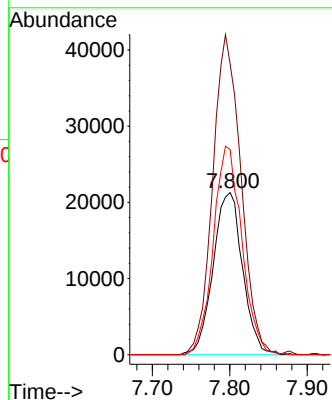
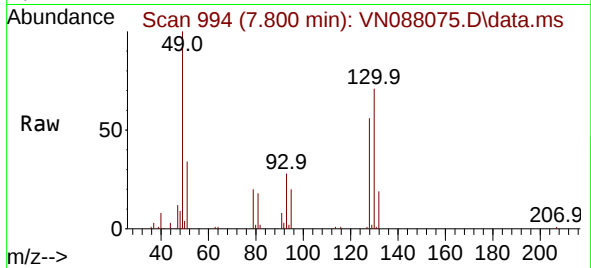




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

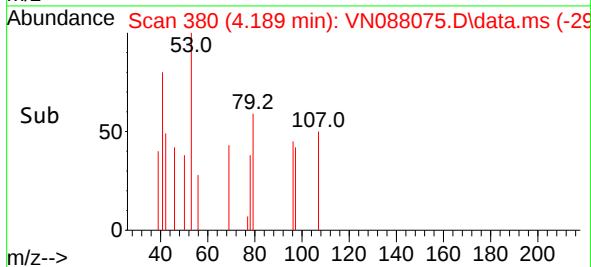
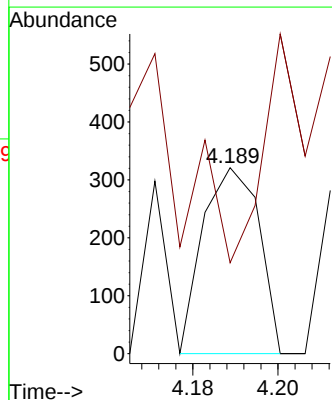
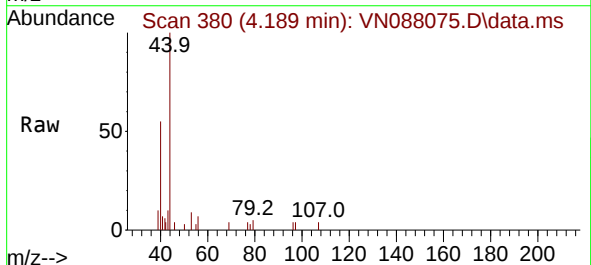
Instrument :
MSVOA_N
ClientSampleId :

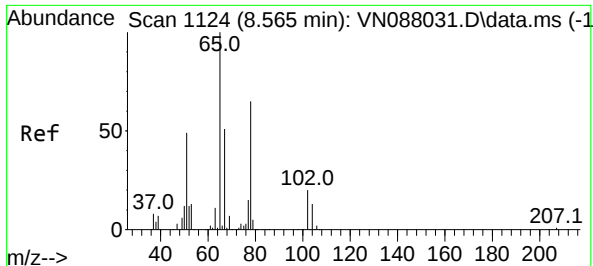
Tgt Ion:128 Resp: 56116
Ion Ratio Lower Upper
128 100
49 189.1 0.0 439.8
130 125.0 0.0 325.8



#13
Acrolein
Concen: 0.397 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 0.0 0.3 0.5#

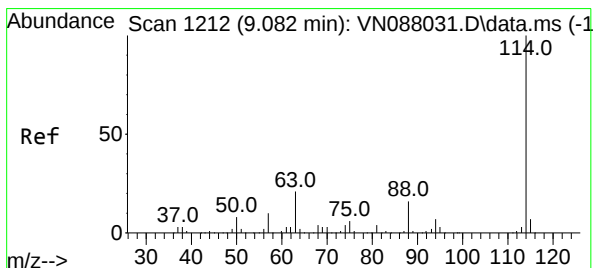
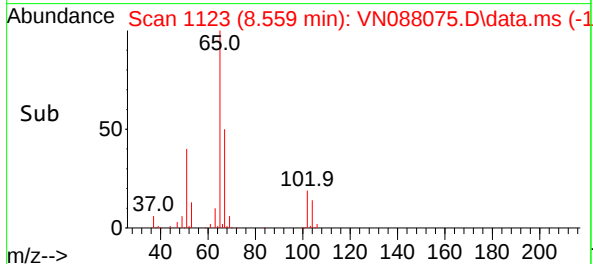
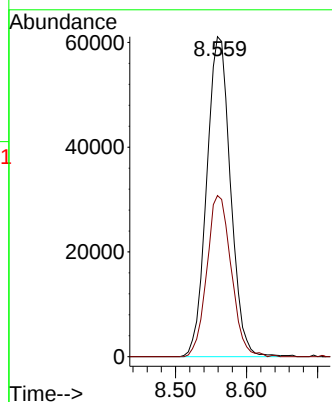
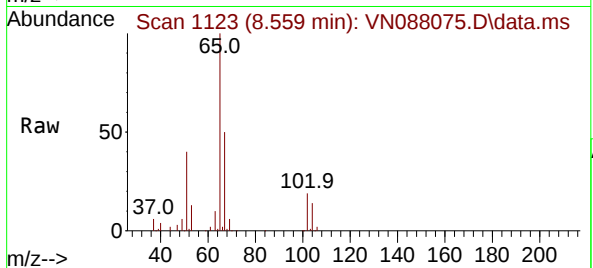




#27
1,2-Dichloroethane-d4
Concen: 32.550 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

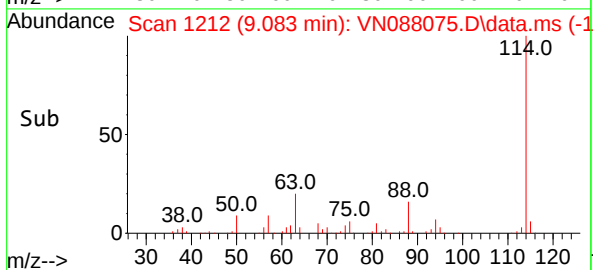
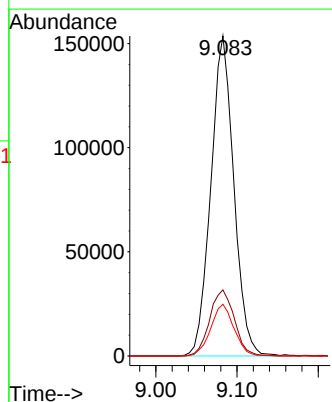
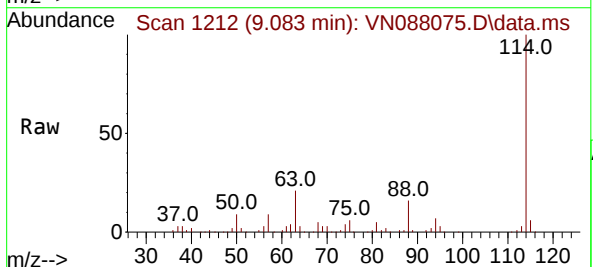
Instrument :
MSVOA_N
ClientSampleId :

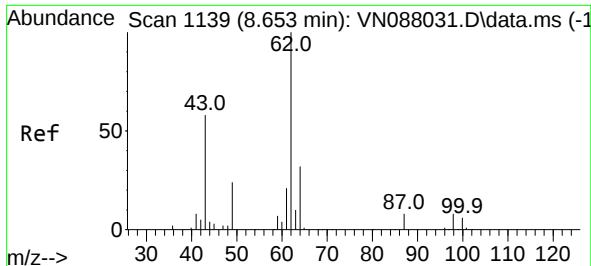
Tgt Ion: 65 Resp: 142234
Ion Ratio Lower Upper
65 100
67 51.4 41.9 62.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion: 114 Resp: 302542
Ion Ratio Lower Upper
114 100
63 22.1 16.6 25.0
88 16.3 12.6 18.8

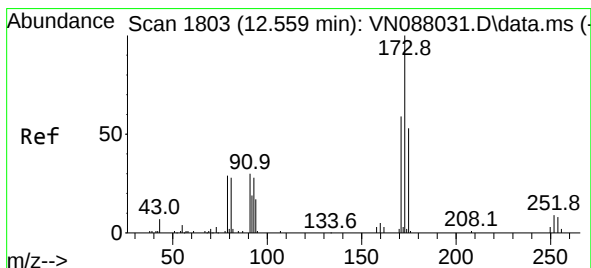
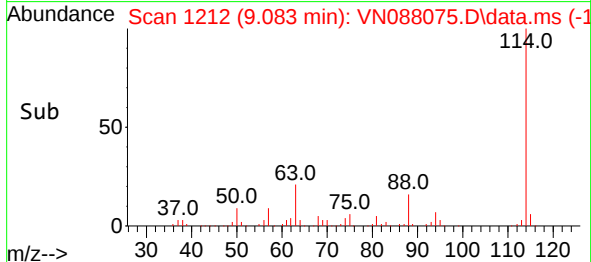
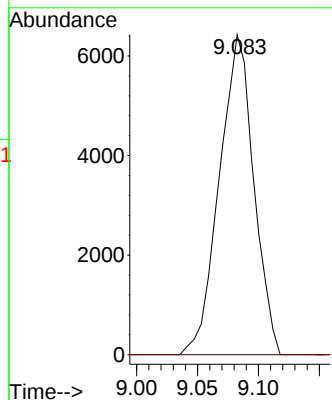
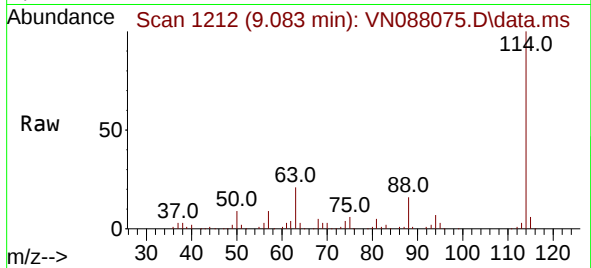




#36
1,2-Dichloroethane
Concen: 2.526 ug/l
RT: 9.083 min Scan# 1139
Delta R.T. 0.430 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

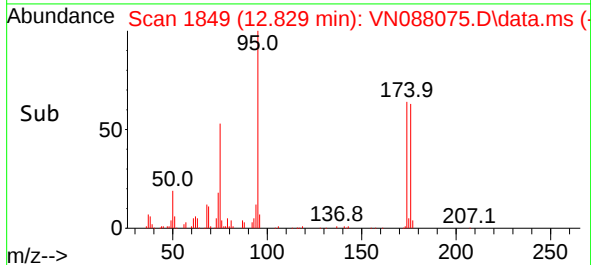
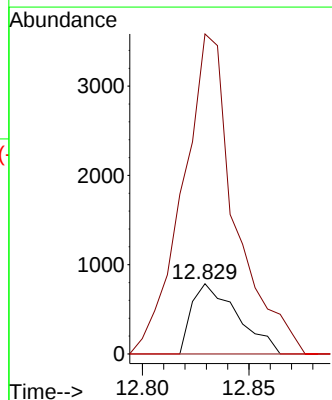
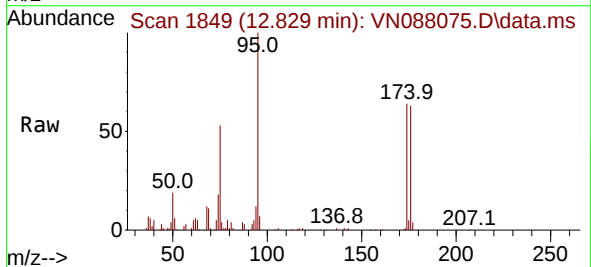
Instrument :
MSVOA_N
ClientSampleId :

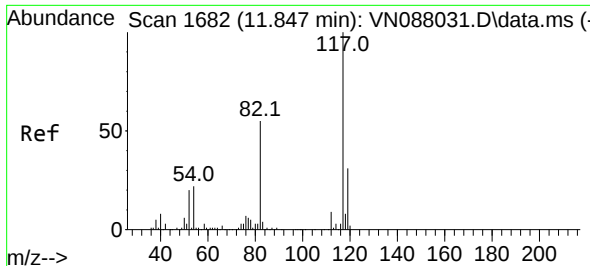
Tgt Ion: 62 Resp: 12613
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



#56
Bromoform
Concen: 0.419 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

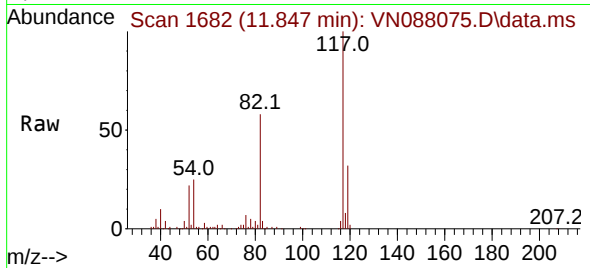
Tgt Ion:173 Resp: 1177
Ion Ratio Lower Upper
173 100
175 523.4 39.6 59.4#
254 0.0 6.6 10.0#



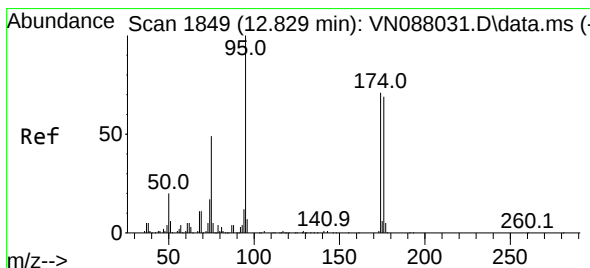
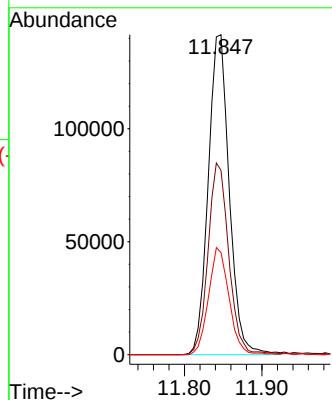
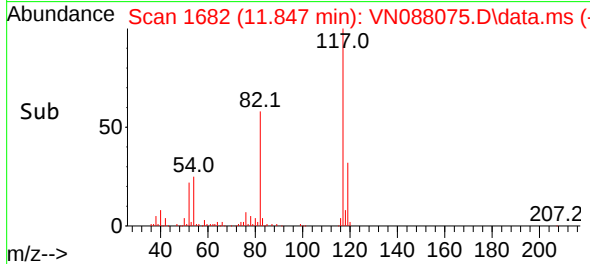


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Instrument :
MSVOA_N
ClientSampleId :

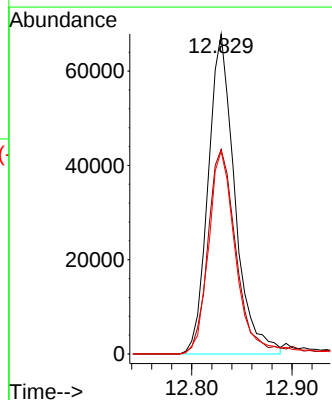
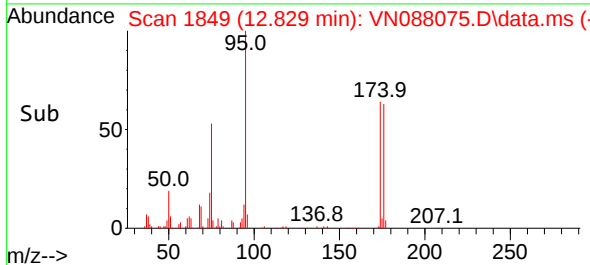
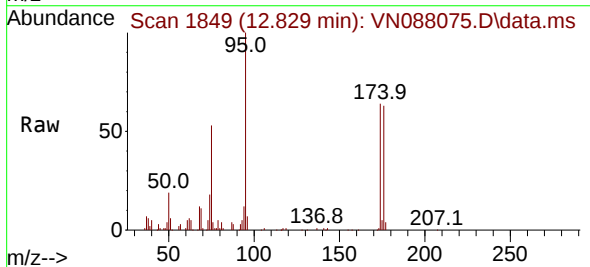


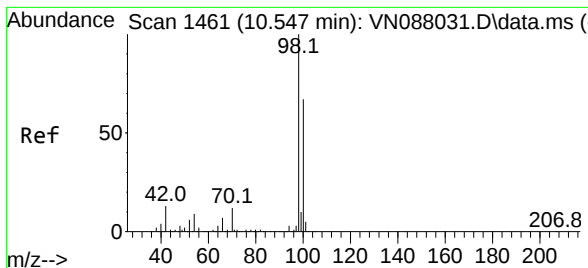
Tgt Ion:117 Resp: 267258
Ion Ratio Lower Upper
117 100
82 58.3 45.2 67.8
119 32.3 25.9 38.9



#60
4-Bromofluorobenzene
Concen: 28.421 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion: 95 Resp: 125221
Ion Ratio Lower Upper
95 100
174 66.2 57.4 86.0
176 64.9 57.0 85.4

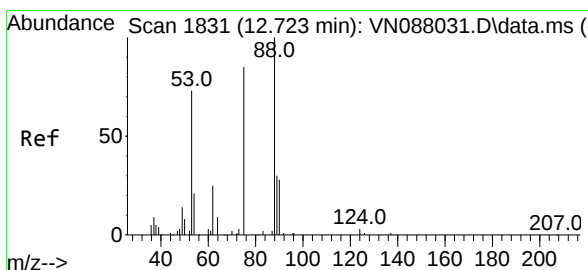
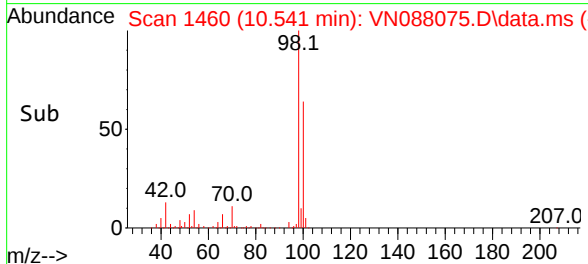
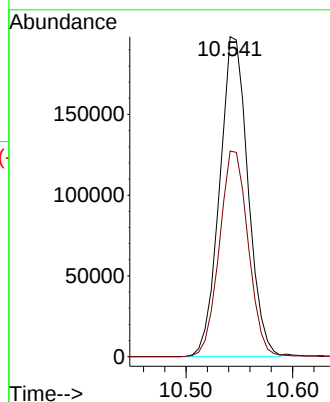
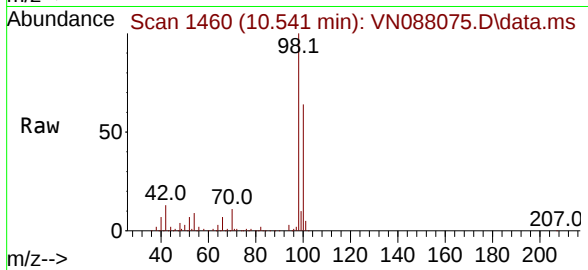




#63
Toluene-d8
Concen: 30.746 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 98 Resp: 366105
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7



#77
t-1,4-Dichloro-2-butene
Concen: 36.614 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.106 min
Lab File: VN088075.D
Acq: 20 Oct 2025 10:55

Tgt Ion: 75 Resp: 71234
Ion Ratio Lower Upper
75 100
53 0.0 41.8 125.3#
89 0.0 19.9 59.6#

