

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088322.D
 Acq On : 20 Nov 2025 11:42
 Operator : JC\MD
 Sample : Q3676-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 02:58:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

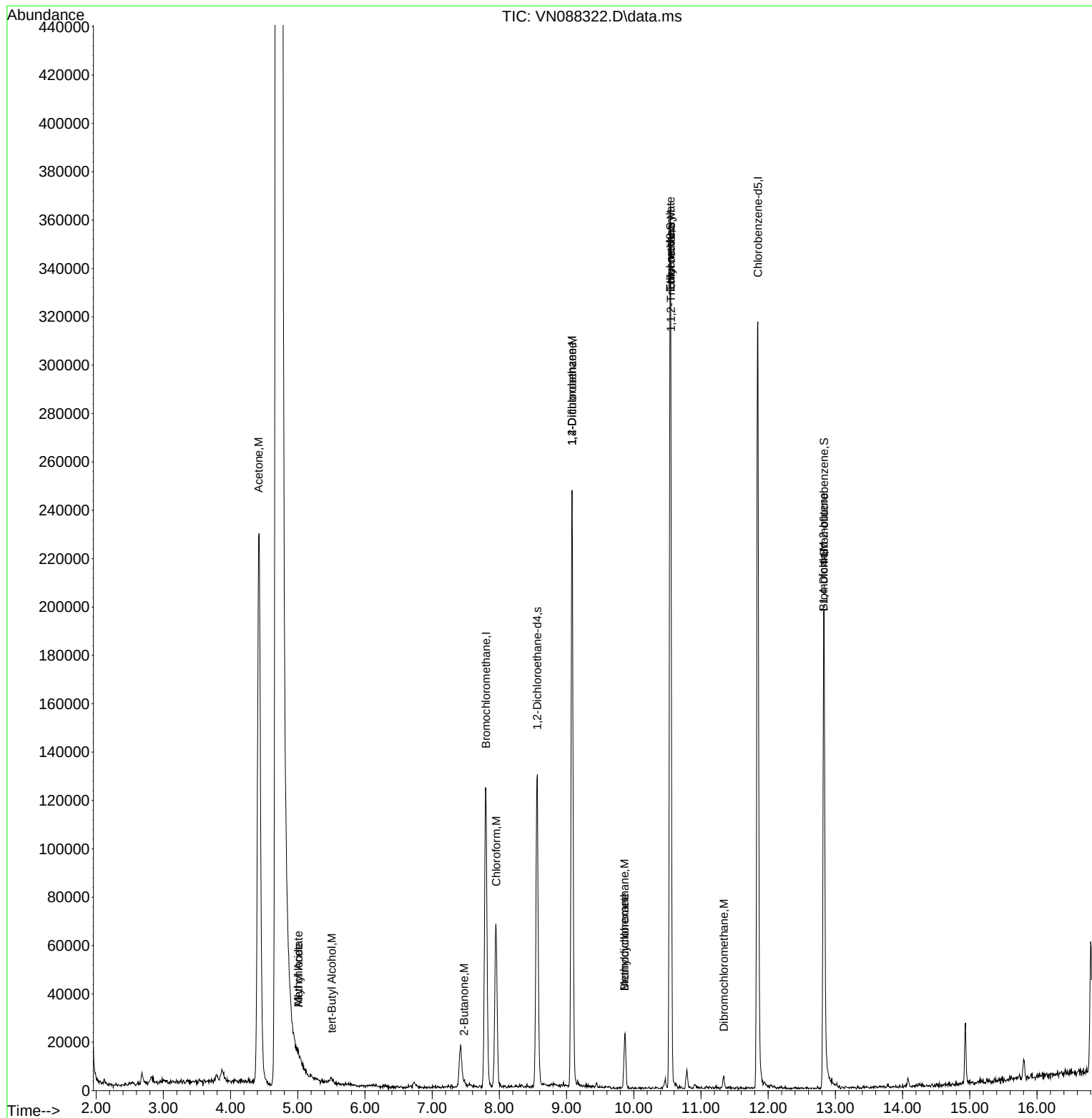
Internal Standards						
1) Bromochloromethane	7.800	128	41384	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	201252	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	178061	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	109243	28.899	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.333%
60) 4-Bromofluorobenzene	12.829	95	73177	24.311	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.033%
63) Toluene-d8	10.547	98	250199	29.679	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.933%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.012	43	1889	0.515	ug/l #	59
15) Acetone	4.418	58	135489	277.730	ug/l	94
17) Allyl chloride	5.012	41	1274	0.288	ug/l #	50
23) tert-Butyl Alcohol	5.506	59	1317	2.147	ug/l #	100
25) Chloroform	7.953	83	62265	11.803	ug/l	97
30) 2-Butanone	7.477	43	3305	1.522	ug/l #	68
36) 1,2-Dichloroethane	9.082	62	8768	2.245	ug/l #	76
38) Methylcyclohexane	9.865	83	16266	4.225	ug/l #	16
41) Bromodichloromethane	9.865	83	16266	4.343	ug/l #	86
50) 1,1,2-Trichloroethane	10.553	97	9600	4.173	ug/l #	1
51) Ethyl methacrylate	10.547	69	988	0.261	ug/l #	70
53) Dibromochloromethane	11.341	129	2706	1.024	ug/l	98
56) Bromoform	12.823	173	873	0.522	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.823	75	44248	38.997	ug/l #	10

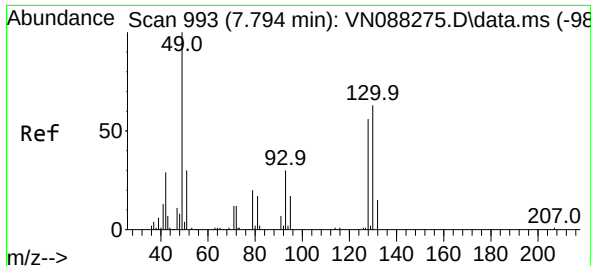
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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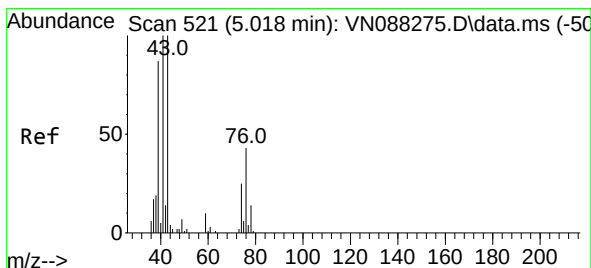
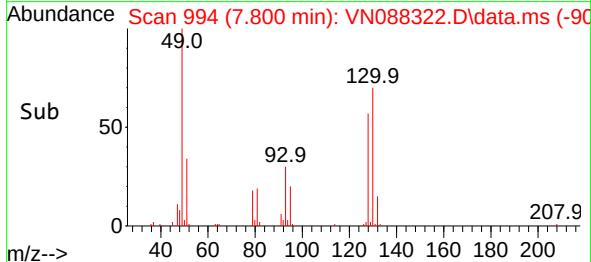
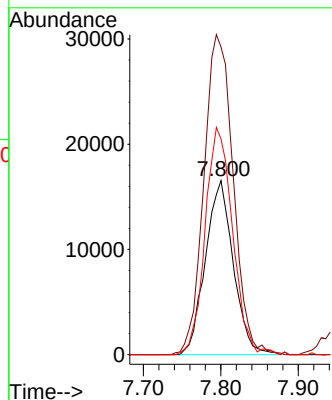
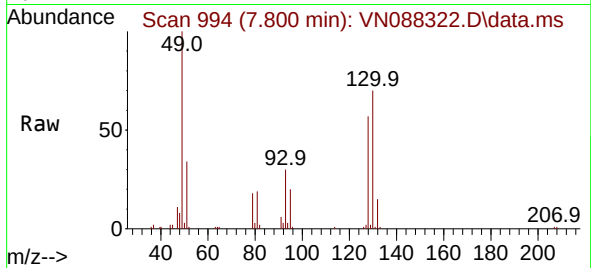




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

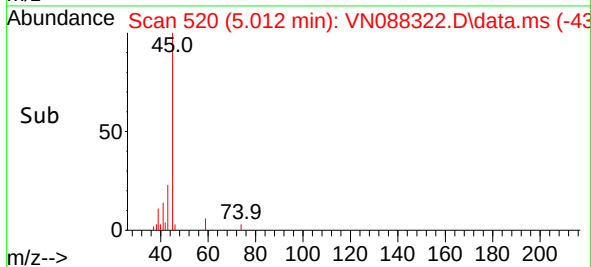
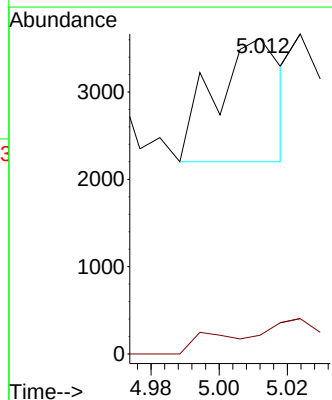
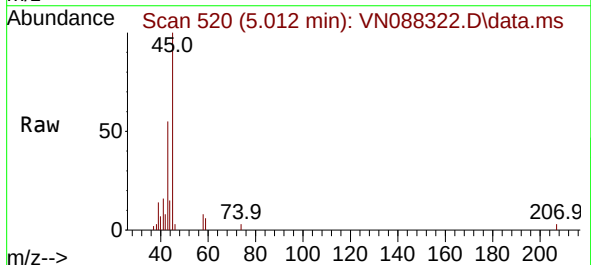
Instrument :
MSVOA_N
ClientSampleId :

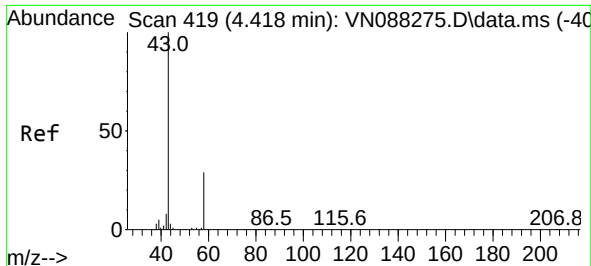
Tgt Ion:128 Resp: 41384
Ion Ratio Lower Upper
128 100
49 193.2 0.0 501.2
130 127.5 0.0 320.2



#12
Methyl Acetate
Concen: 0.515 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Tgt Ion: 43 Resp: 1889
Ion Ratio Lower Upper
43 100
74 4.1 19.8 29.8#

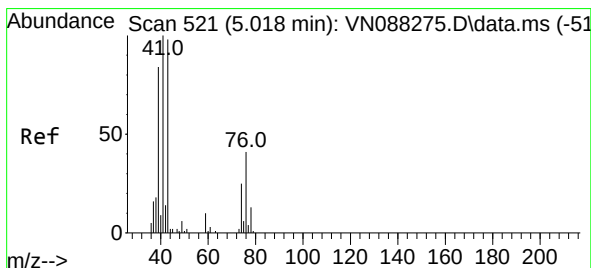
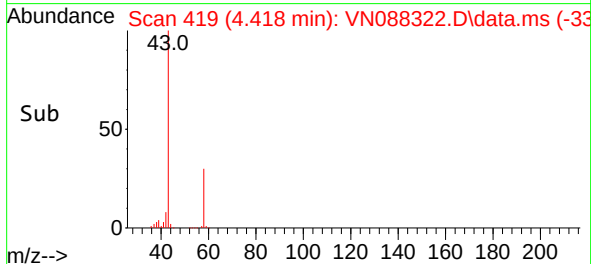
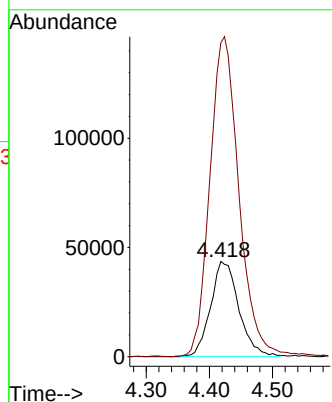
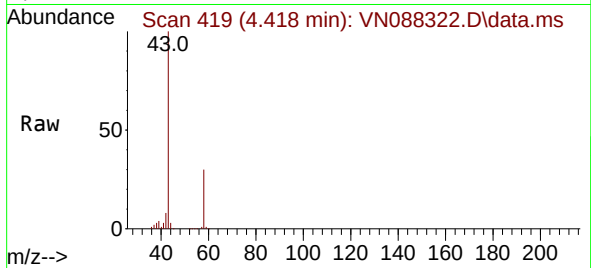




#15
Acetone
Concen: 277.730 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

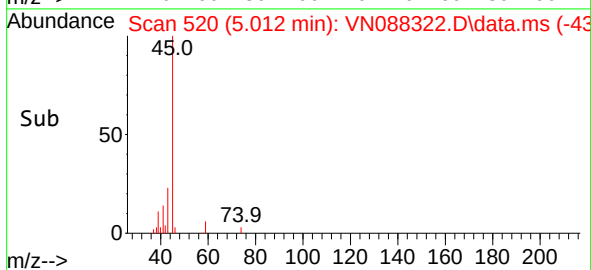
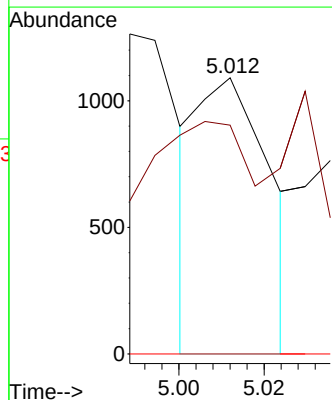
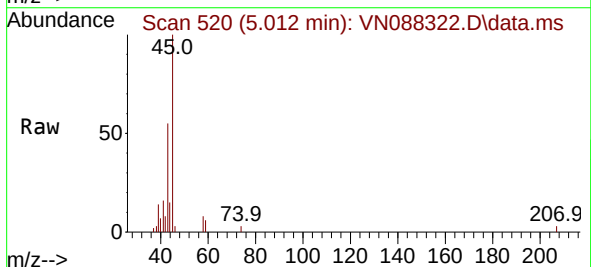
Instrument :
MSVOA_N
ClientSampleId :

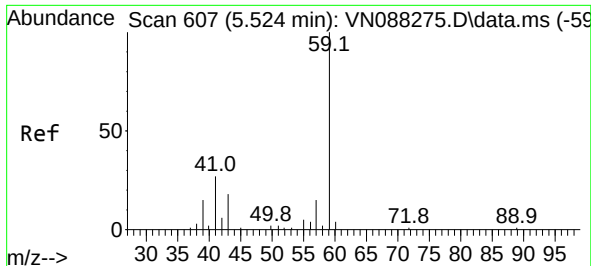
Tgt Ion: 58 Resp: 135489
Ion Ratio Lower Upper
58 100
43 329.0 273.9 410.9



#17
Allyl chloride
Concen: 0.288 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Tgt Ion: 41 Resp: 1274
Ion Ratio Lower Upper
41 100
39 38.1 38.3 114.9#
76 0.0 18.5 55.5#

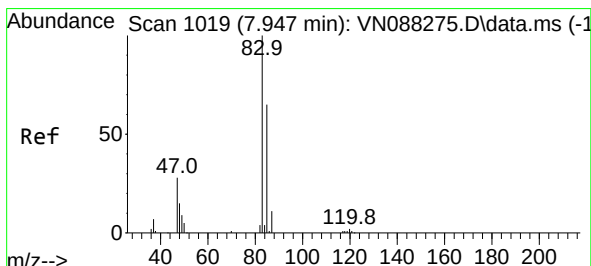
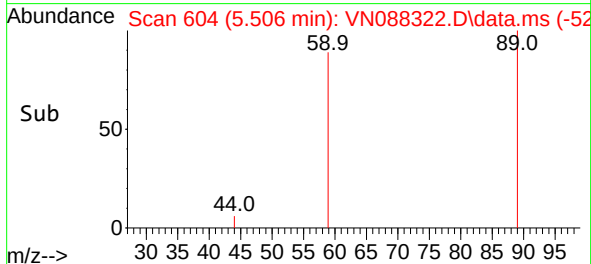
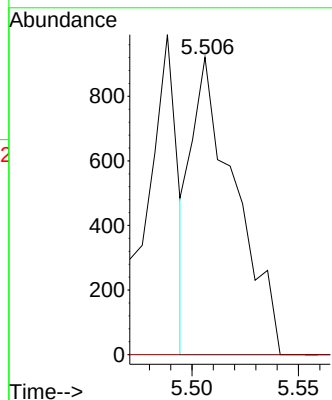
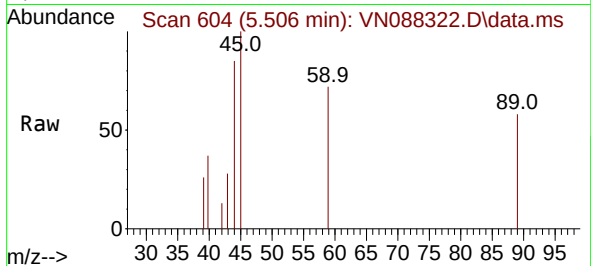




#23
tert-Butyl Alcohol
Concen: 2.147 ug/l
RT: 5.506 min Scan# 60
Delta R.T. -0.018 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

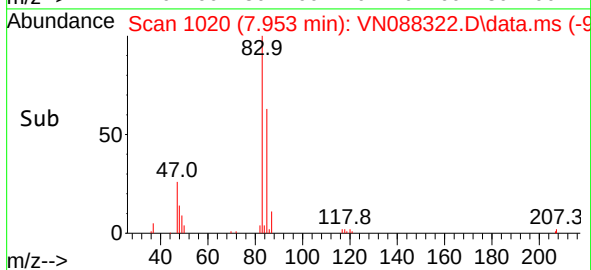
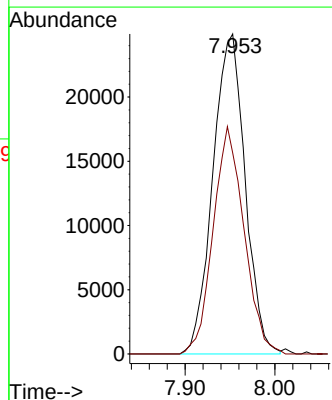
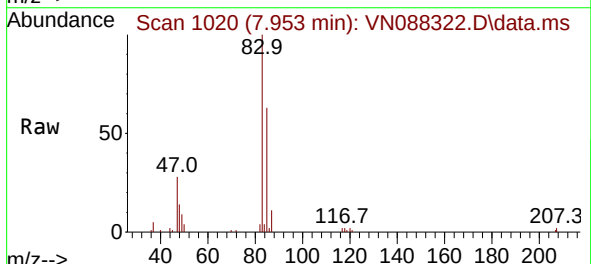
Instrument :
MSVOA_N
ClientSampleId :

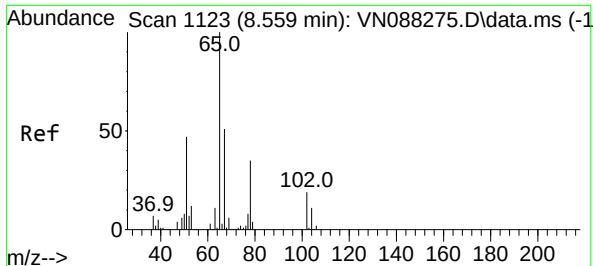
Tgt Ion: 59 Resp: 1317
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 11.803 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Tgt Ion: 83 Resp: 62265
Ion Ratio Lower Upper
83 100
85 62.8 52.2 78.4

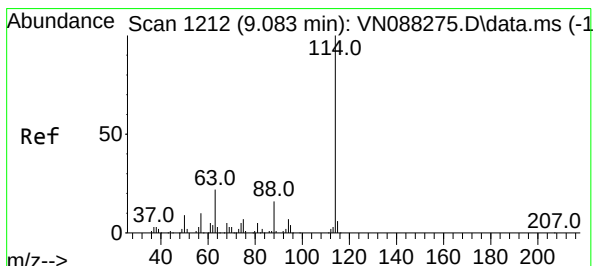
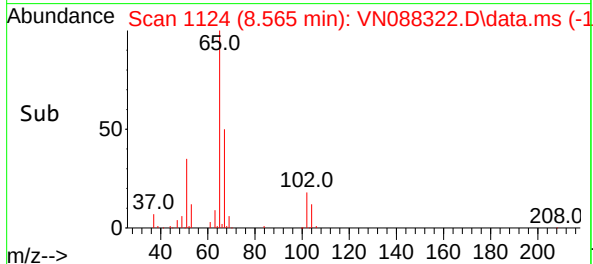
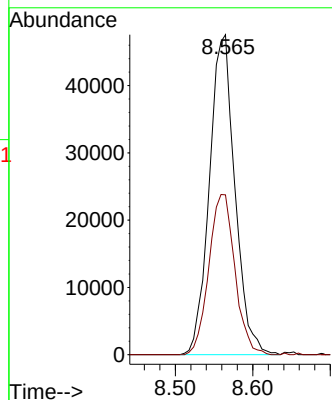
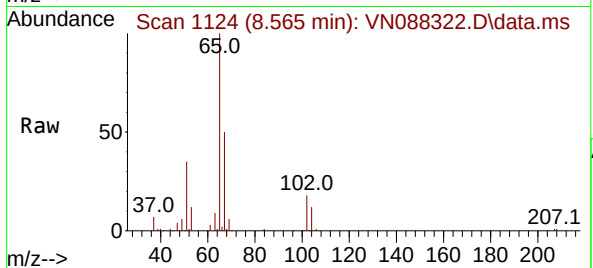




#27
 1,2-Dichloroethane-d4
 Concen: 28.899 ug/l
 RT: 8.565 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: VN088322.D
 Acq: 20 Nov 2025 11:42

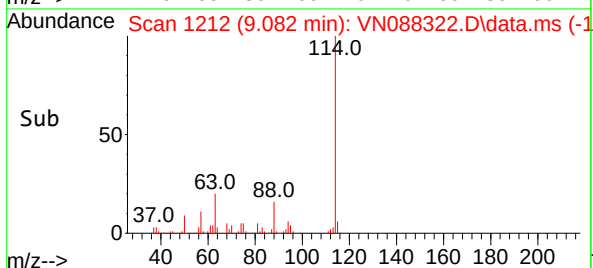
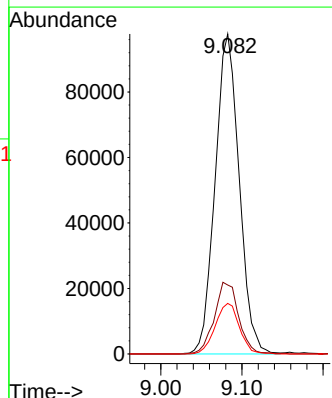
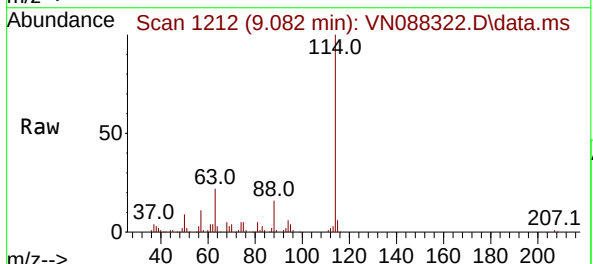
Instrument :
 MSVOA_N
 ClientSampleId :

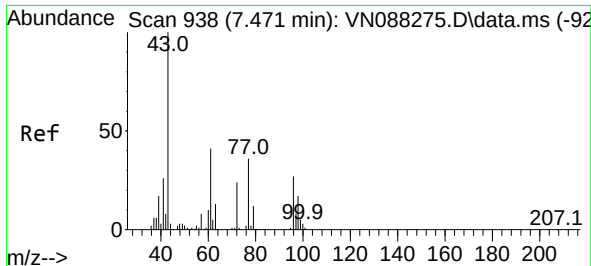
Tgt Ion: 65 Resp: 109243
 Ion Ratio Lower Upper
 65 100
 67 51.0 40.2 60.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN088322.D
 Acq: 20 Nov 2025 11:42

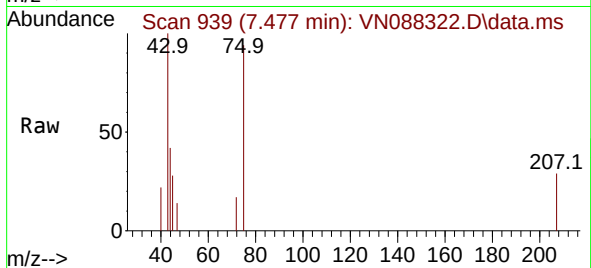
Tgt Ion: 114 Resp: 201252
 Ion Ratio Lower Upper
 114 100
 63 22.6 18.9 28.3
 88 15.9 12.8 19.2



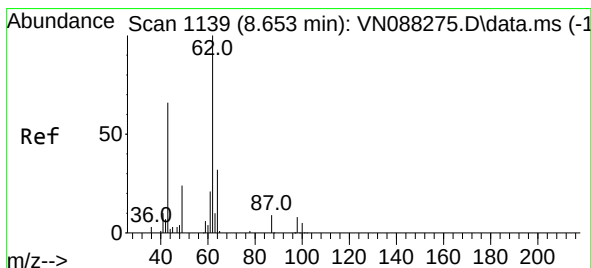
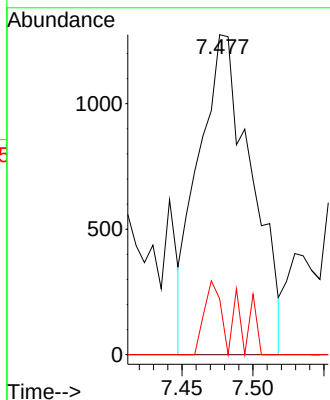
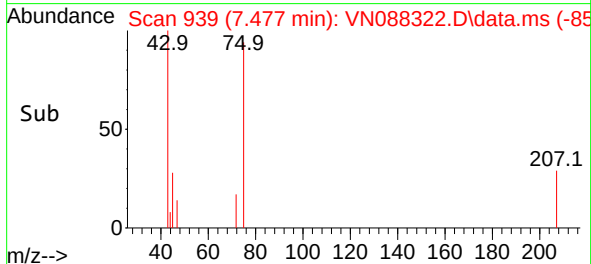


#30
2-Butanone
Concen: 1.522 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

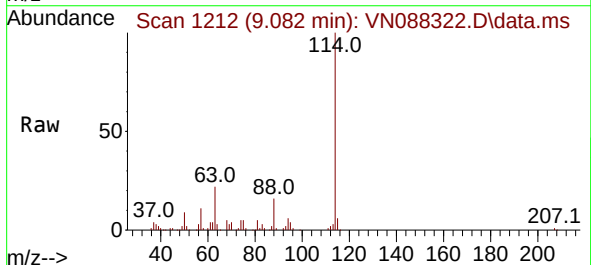
Instrument :
MSVOA_N
ClientSampleId :



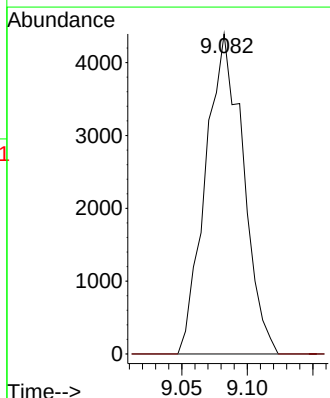
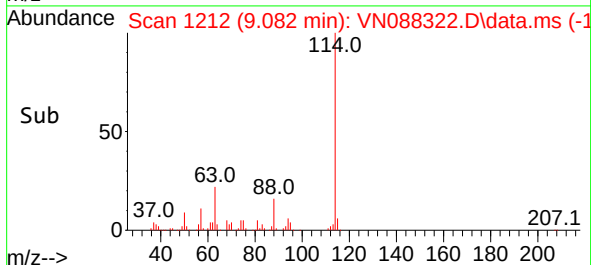
Tgt Ion: 43 Resp: 3305
Ion Ratio Lower Upper
43 100
57 0.0 6.2 9.4#
72 7.2 19.4 29.2#

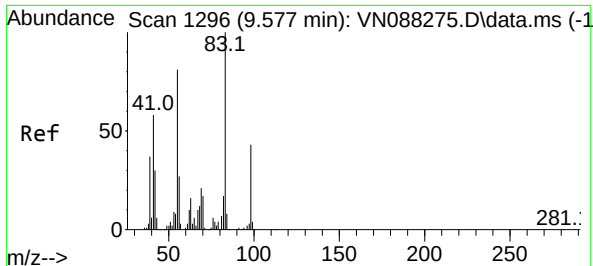


#36
1,2-Dichloroethane
Concen: 2.245 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.429 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42



Tgt Ion: 62 Resp: 8768
Ion Ratio Lower Upper
62 100
98 0.0 6.8 10.2#





#38

Methylcyclohexane

Concen: 4.225 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. 0.288 min

Lab File: VN088322.D

Acq: 20 Nov 2025 11:42

Instrument :

MSVOA_N

ClientSampleId :

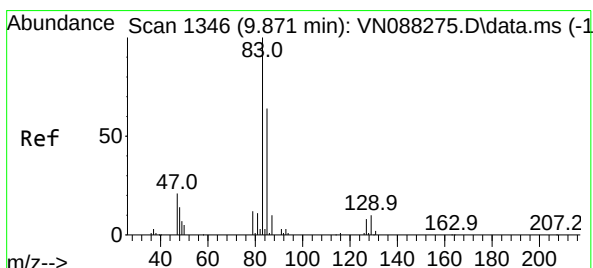
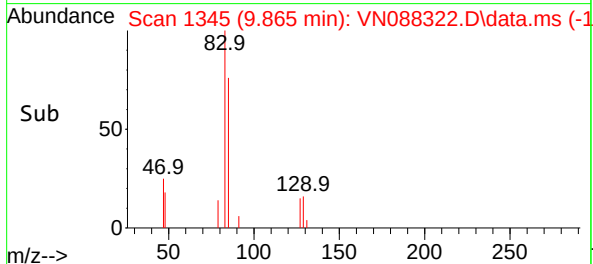
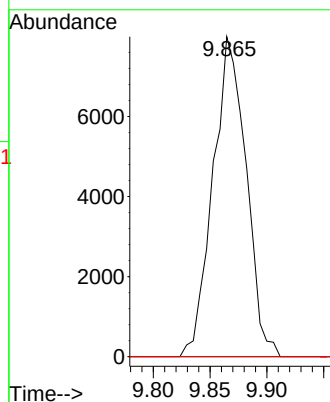
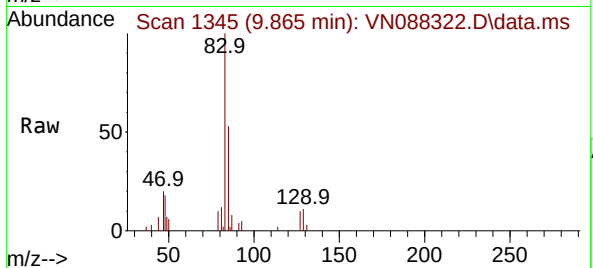
Tgt Ion: 83 Resp: 16266

Ion Ratio Lower Upper

83 100

55 0.0 40.8 122.5#

98 0.0 23.4 70.3#



#41

Bromodichloromethane

Concen: 4.343 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. -0.006 min

Lab File: VN088322.D

Acq: 20 Nov 2025 11:42

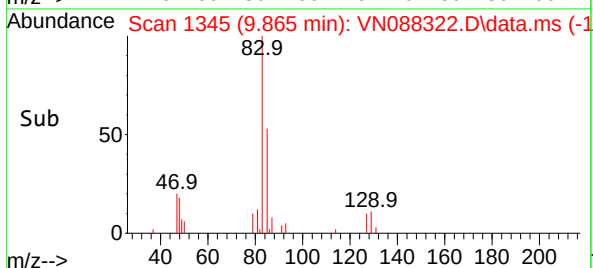
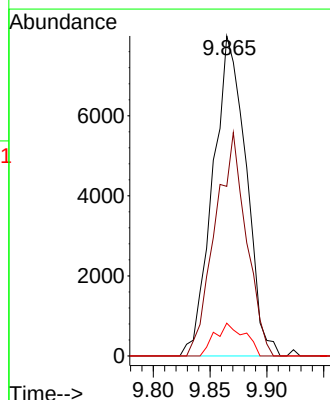
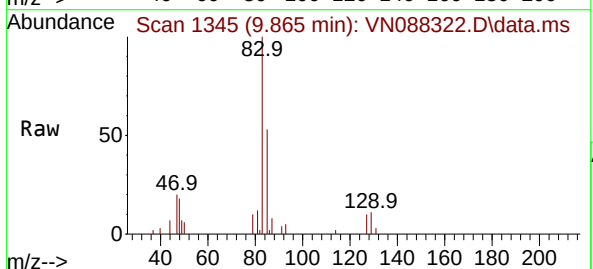
Tgt Ion: 83 Resp: 16266

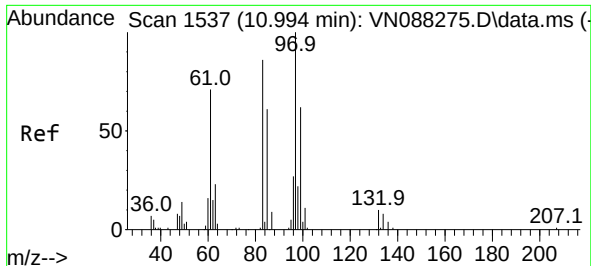
Ion Ratio Lower Upper

83 100

85 53.0 51.4 77.2

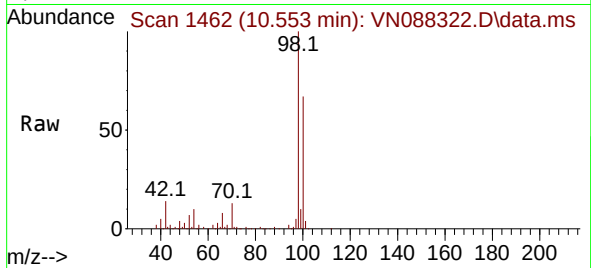
127 10.3 6.4 9.6#



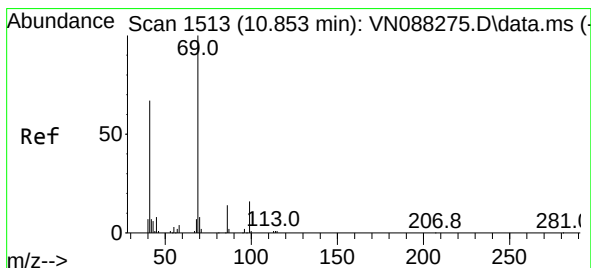
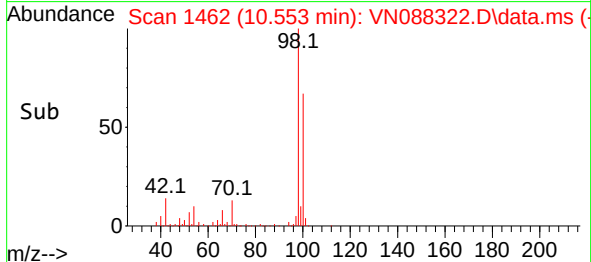
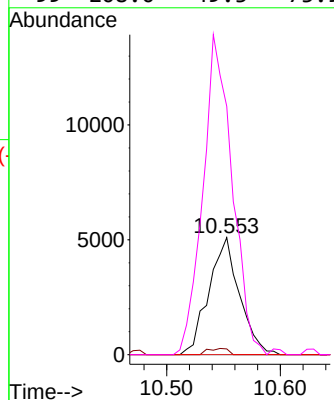


#50
1,1,2-Trichloroethane
Concen: 4.173 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Instrument :
MSVOA_N
ClientSampleId :

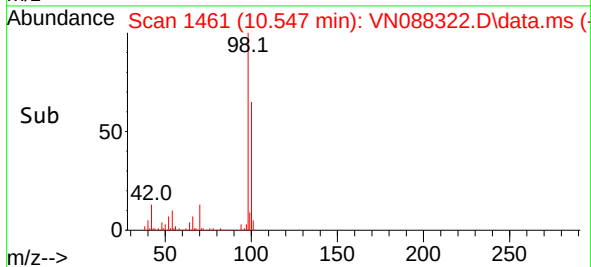
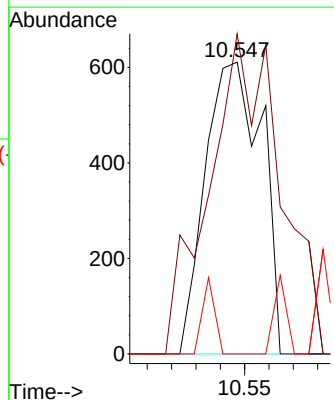
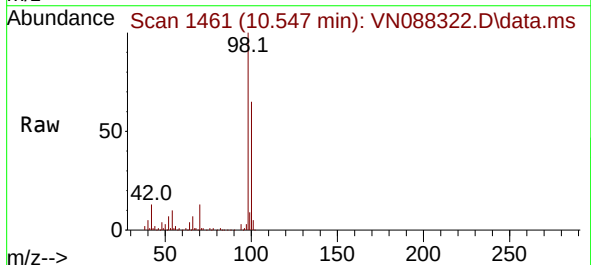


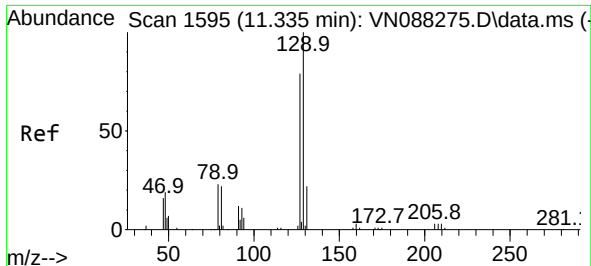
Tgt Ion: 97	Resp: 9600
Ion Ratio	Lower Upper
97 100	
83 5.0	68.6 102.8#
85 0.0	49.0 73.6#
99 208.0	49.3 73.9#



#51
Ethyl methacrylate
Concen: 0.261 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.306 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Tgt Ion: 69	Resp: 988
Ion Ratio	Lower Upper
69 100	
41 68.9	33.6 100.8
39 0.0	23.4 70.2#

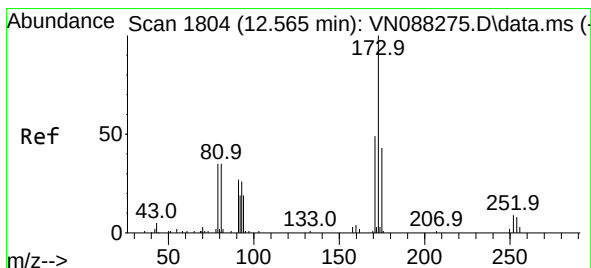
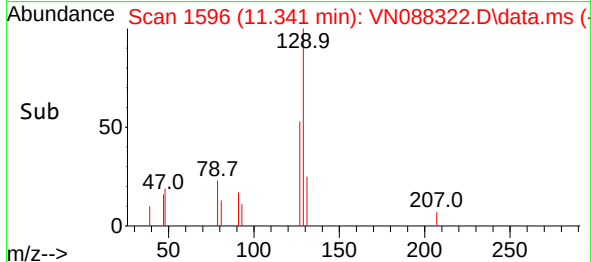
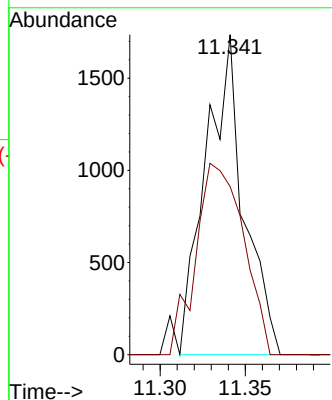
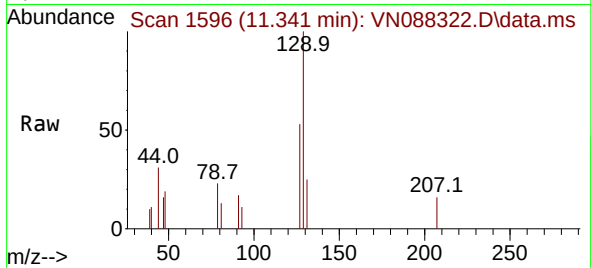




#53
Dibromochloromethane
Concen: 1.024 ug/l
RT: 11.341 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

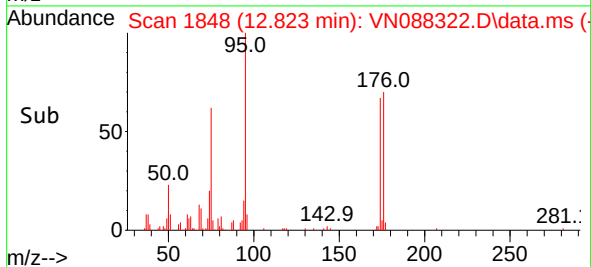
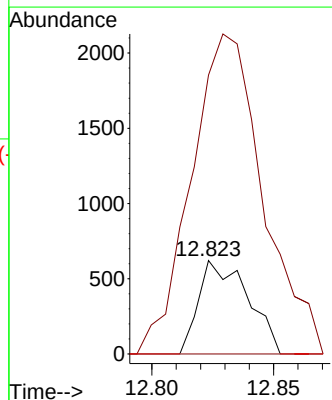
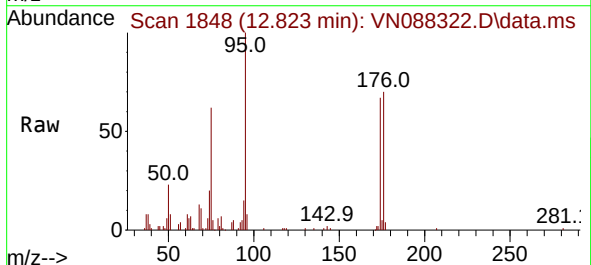
Instrument :
MSVOA_N
ClientSampleId :

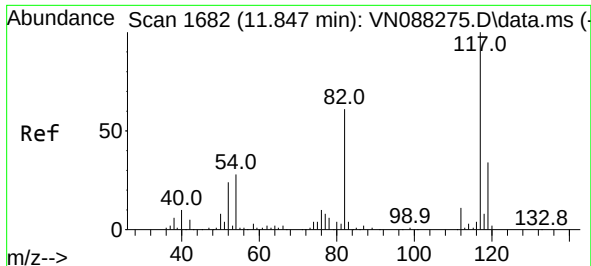
Tgt Ion:129 Resp: 2706
Ion Ratio Lower Upper
129 100
127 74.7 38.2 114.6



#56
Bromoform
Concen: 0.522 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.259 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

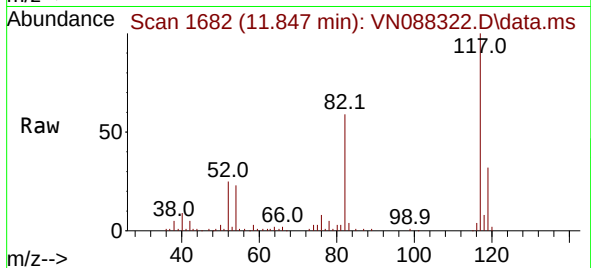
Tgt Ion:173 Resp: 873
Ion Ratio Lower Upper
173 100
175 500.1 37.7 56.5#
254 0.0 5.9 8.9#



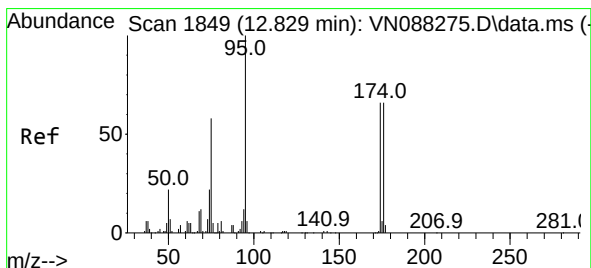
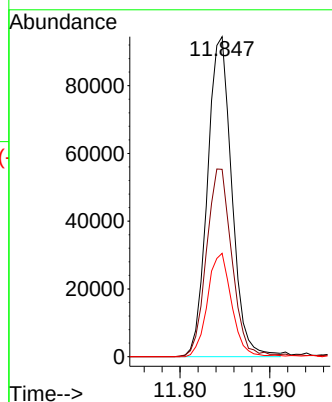
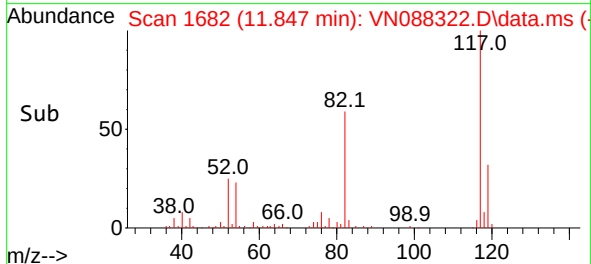


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

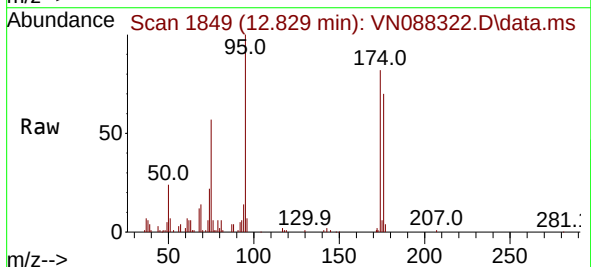
Instrument :
MSVOA_N
ClientSampleId :



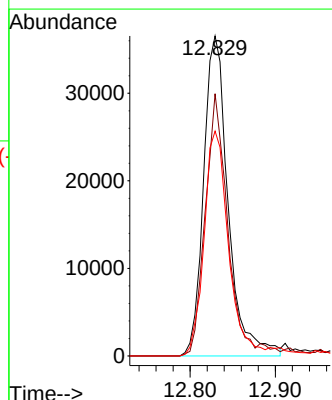
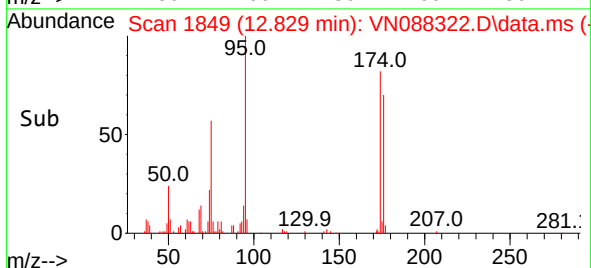
Tgt Ion:117 Resp: 178061
Ion Ratio Lower Upper
117 100
82 61.0 49.3 73.9
119 31.8 26.4 39.6

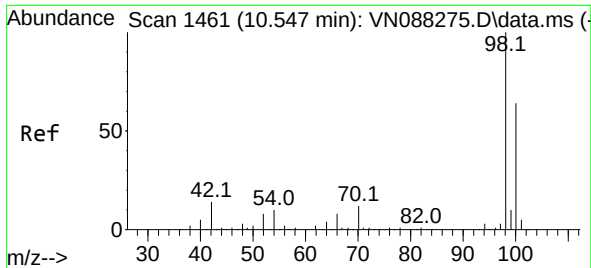


#60
4-Bromofluorobenzene
Concen: 24.311 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42



Tgt Ion: 95 Resp: 73177
Ion Ratio Lower Upper
95 100
174 73.4 54.5 81.7
176 69.5 53.8 80.6

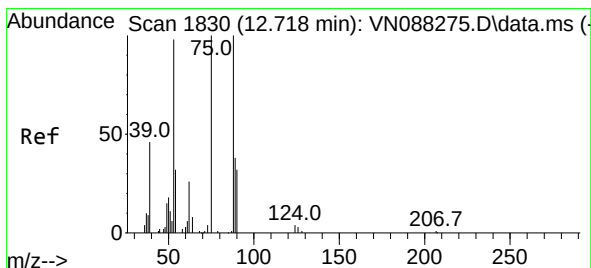
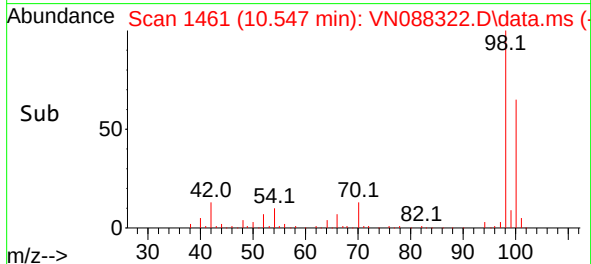
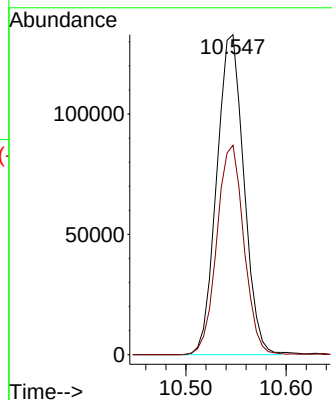
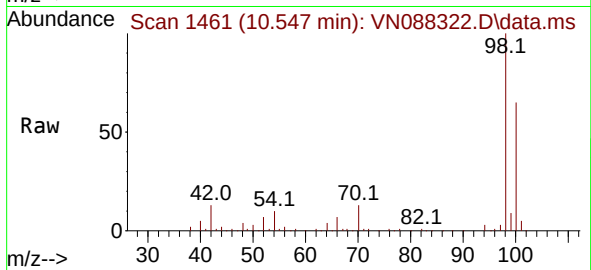




#63
Toluene-d8
Concen: 29.679 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 98 Resp: 250199
Ion Ratio Lower Upper
98 100
100 65.1 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 38.997 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088322.D
Acq: 20 Nov 2025 11:42

Tgt Ion: 75 Resp: 44248
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 22.3 66.9#

