

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112525\
 Data File : VN088359.D
 Acq On : 25 Nov 2025 13:45
 Operator : JC\MD
 Sample : Q3700-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Nov 26 00:18:49 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)

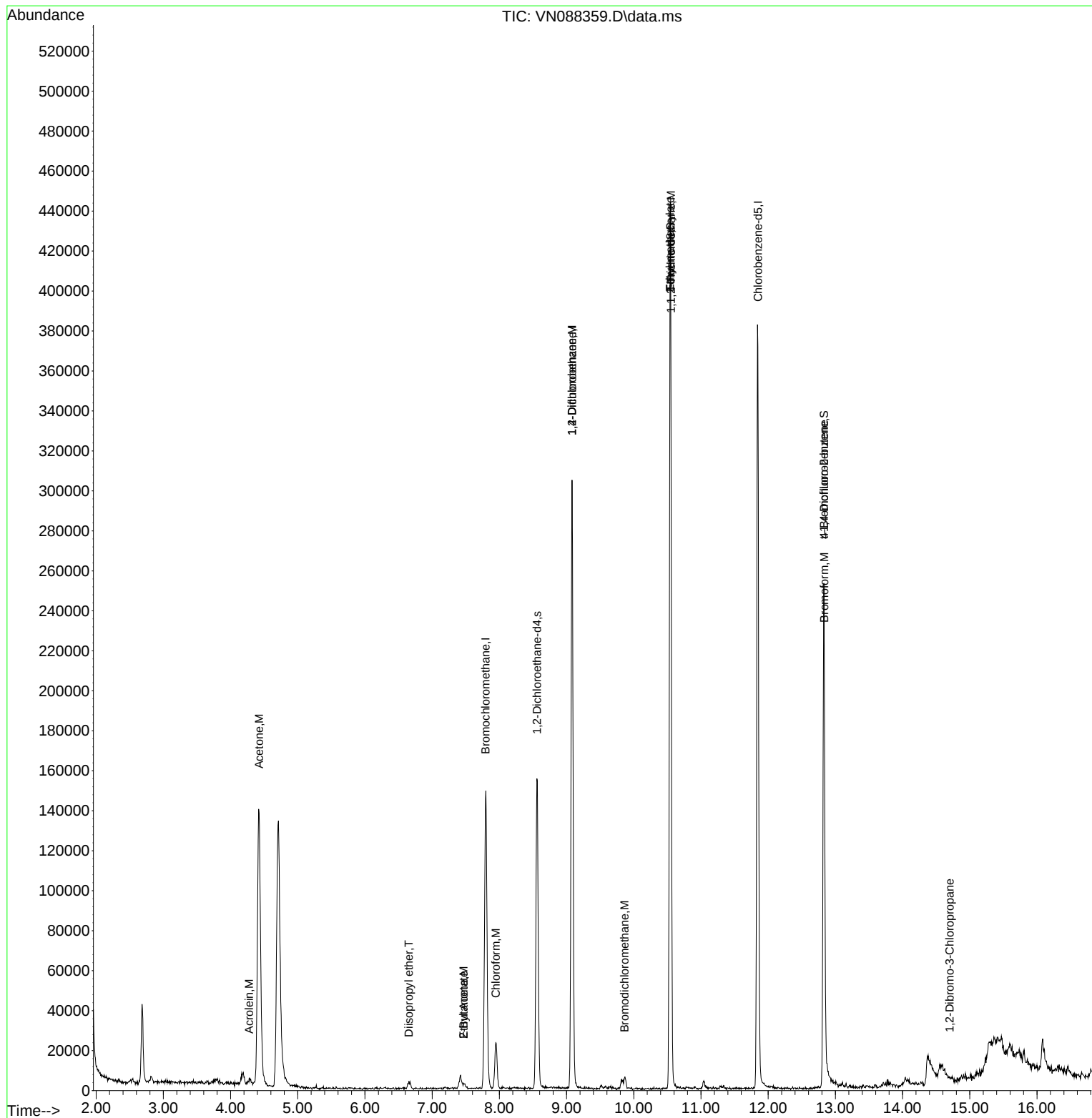
Internal Standards						
1) Bromochloromethane	7.794	128	50615	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	245873	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	214867	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	131352	28.410	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.700%
60) 4-Bromofluorobenzene	12.829	95	89677	24.689	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.300%
63) Toluene-d8	10.547	98	305474	30.029	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.100%
Target Compounds						
					Qvalue	
13) Acrolein	4.277	56	158	0.239	ug/l	83
15) Acetone	4.424	58	82197	137.762	ug/l	99
20) Diisopropyl ether	6.653	45	2325	0.201	ug/l #	91
25) Chloroform	7.947	83	22051	3.418	ug/l	97
30) 2-Butanone	7.471	43	2116	0.797	ug/l #	63
36) 1,2-Dichloroethane	9.082	62	11024	2.310	ug/l #	76
41) Bromodichloromethane	9.865	83	3982	0.870	ug/l #	87
43) Ethyl Acetate	7.471	43	2116	0.396	ug/l	99
50) 1,1,2-Trichloroethane	10.553	97	11924	4.242	ug/l #	1
51) Ethyl methacrylate	10.541	69	1398	0.302	ug/l #	57
56) Bromoform	12.835	173	878	0.430	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	52780	38.548	ug/l #	10
88) 1,2-Dibromo-3-Chloropr...	14.700	75	231	0.239	ug/l #	10

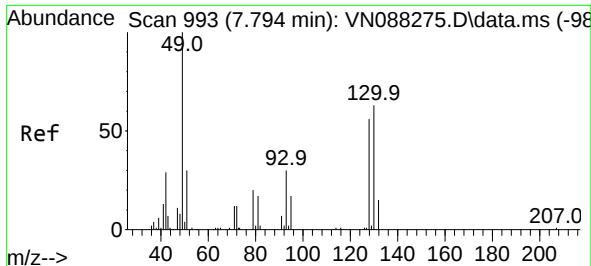
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112525\
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 14 00:49:21 2025
Response via : Initial Calibration

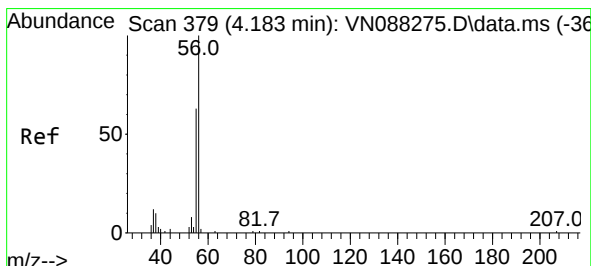
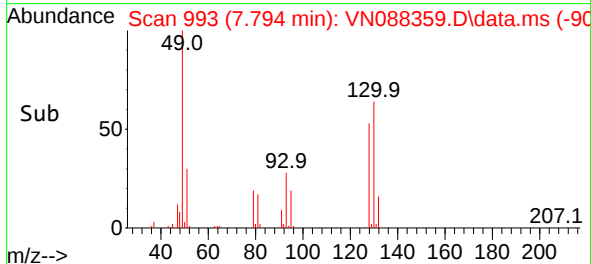
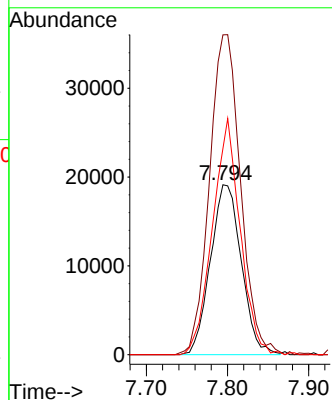
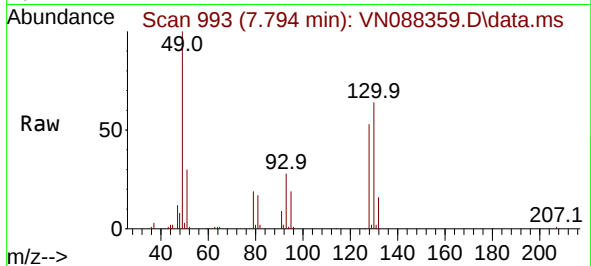




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

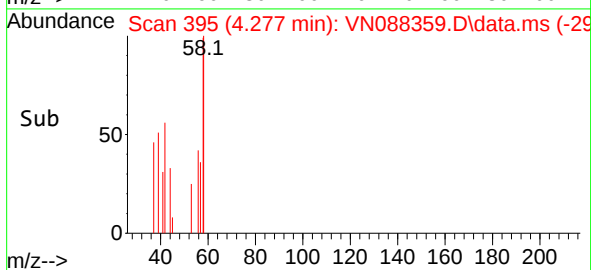
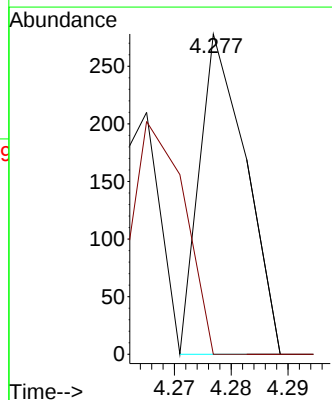
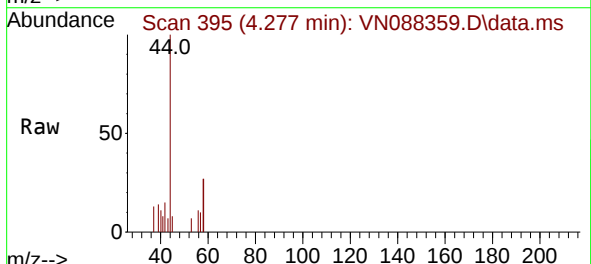
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

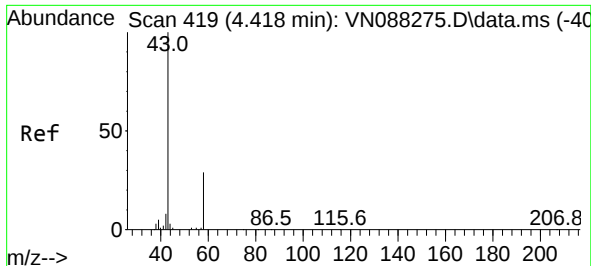
Tgt Ion:128 Resp: 50615
Ion Ratio Lower Upper
128 100
49 189.4 0.0 501.2
130 124.4 0.0 320.2



#13
Acrolein
Concen: 0.239 ug/l
RT: 4.277 min Scan# 395
Delta R.T. 0.094 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 86.7 57.9 86.9

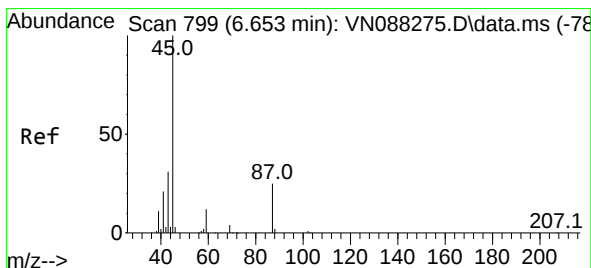
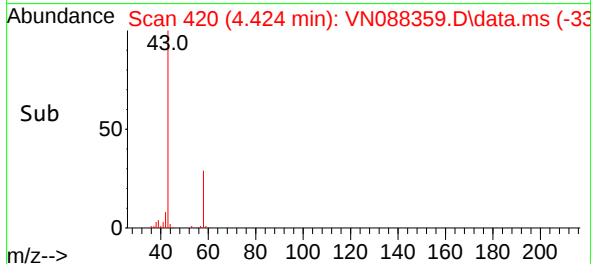
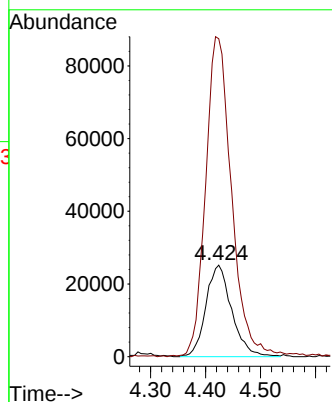
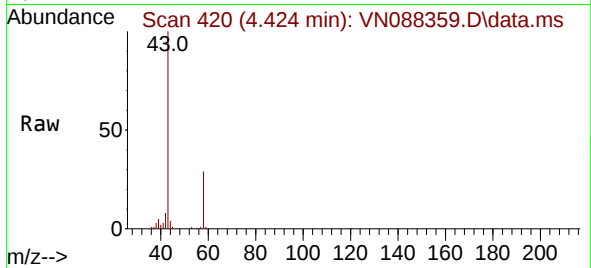




#15
Acetone
Concen: 137.762 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

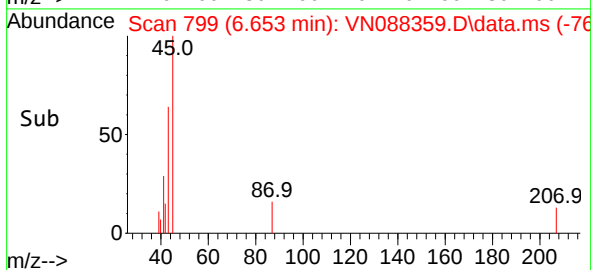
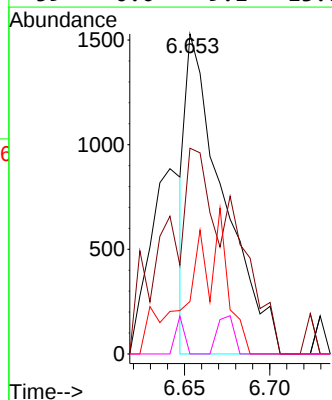
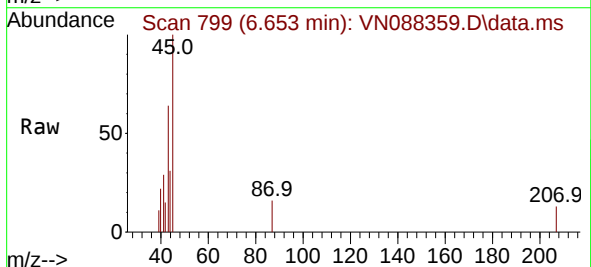
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

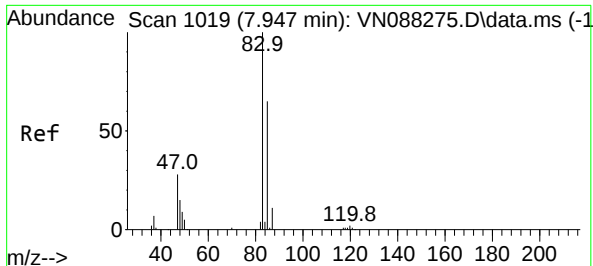
Tgt Ion: 58 Resp: 82197
Ion Ratio Lower Upper
58 100
43 345.6 273.9 410.9



#20
Diisopropyl ether
Concen: 0.201 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 45 Resp: 2325
Ion Ratio Lower Upper
45 100
43 64.3 51.9 77.9
87 16.4 21.1 31.7#
59 0.0 9.1 13.7#

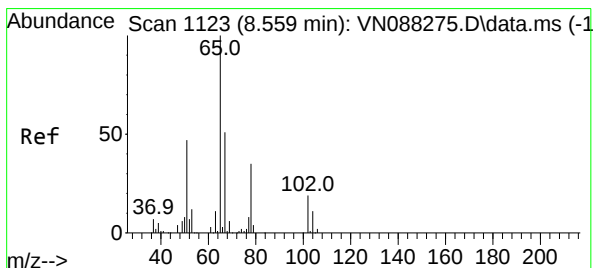
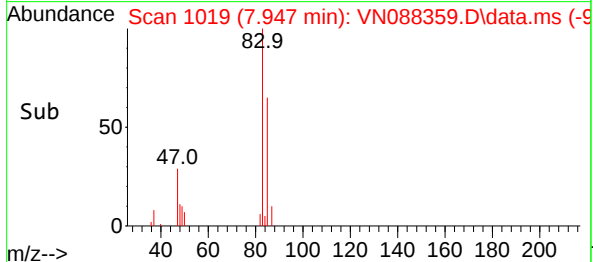
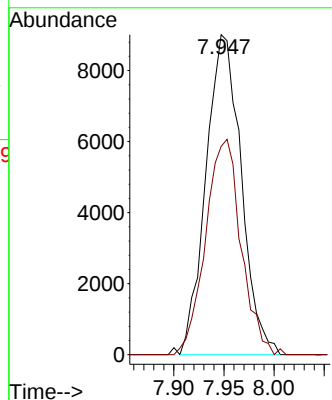
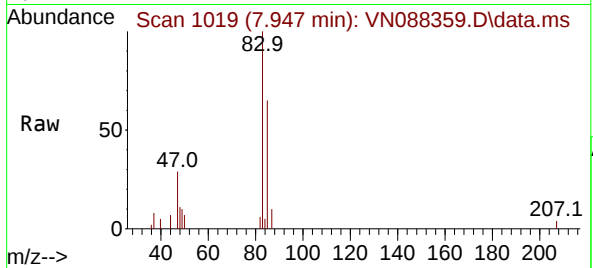




#25
Chloroform
Concen: 3.418 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

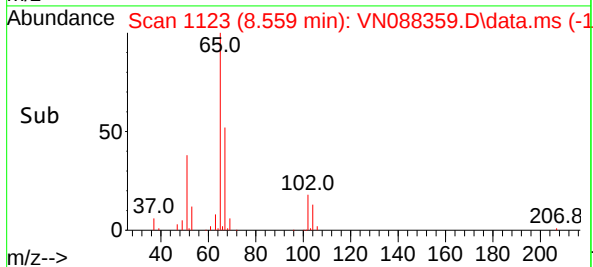
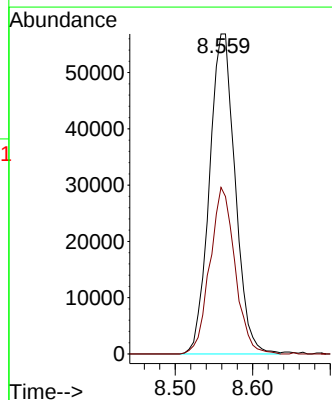
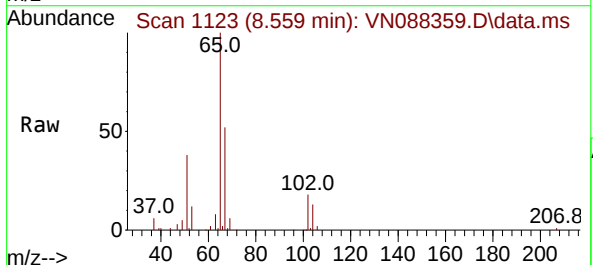
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

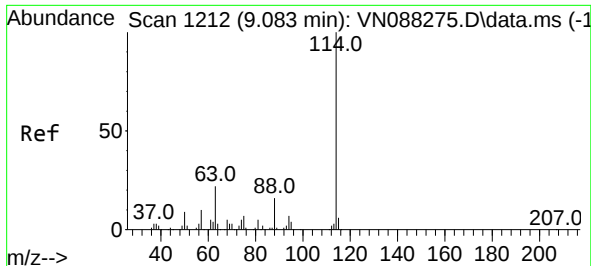
Tgt Ion: 83 Resp: 22051
Ion Ratio Lower Upper
83 100
85 63.3 52.2 78.4



#27
1,2-Dichloroethane-d4
Concen: 28.410 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 65 Resp: 131352
Ion Ratio Lower Upper
65 100
67 50.8 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088359.D

Acq: 25 Nov 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

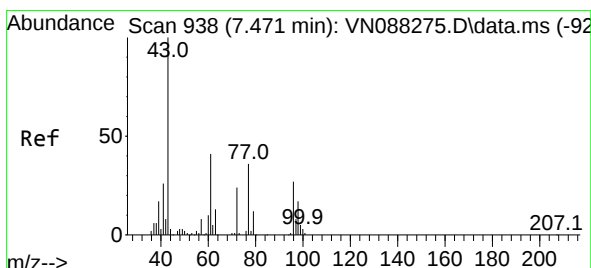
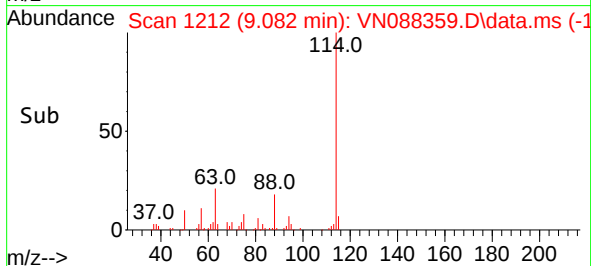
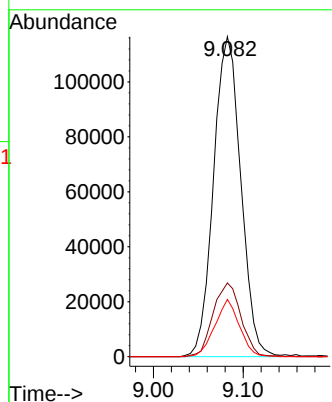
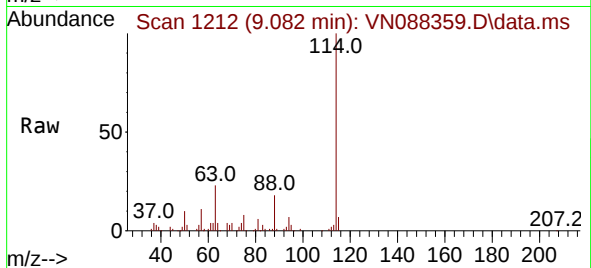
Tgt Ion:114 Resp: 245873

Ion Ratio Lower Upper

114 100

63 23.4 18.9 28.3

88 16.1 12.8 19.2



#30

2-Butanone

Concen: 0.797 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN088359.D

Acq: 25 Nov 2025 13:45

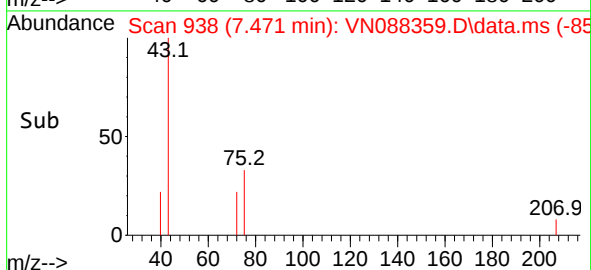
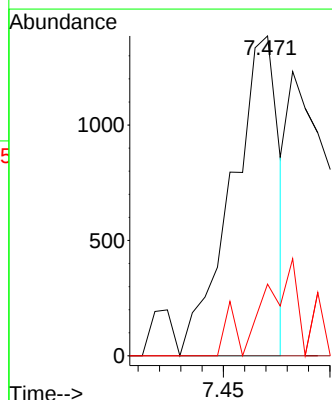
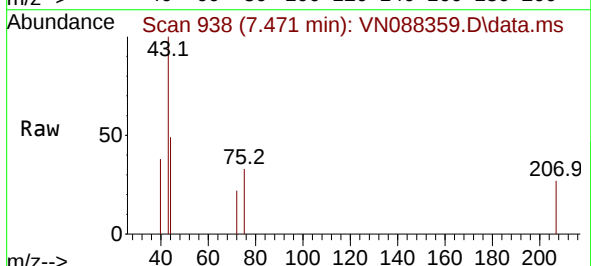
Tgt Ion: 43 Resp: 2116

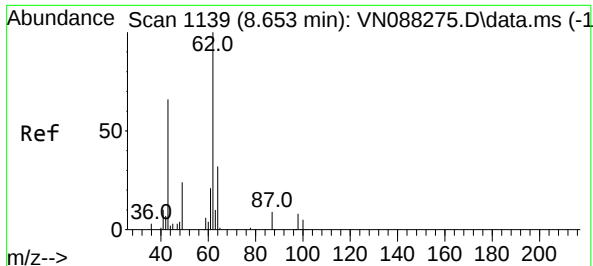
Ion Ratio Lower Upper

43 100

57 0.0 6.2 9.4#

72 3.9 19.4 29.2#





#36

1,2-Dichloroethane

Concen: 2.310 ug/l

RT: 9.082 min Scan# 1139

Delta R.T. 0.429 min

Lab File: VN088359.D

Acq: 25 Nov 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

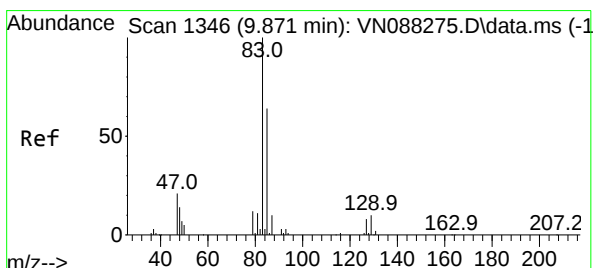
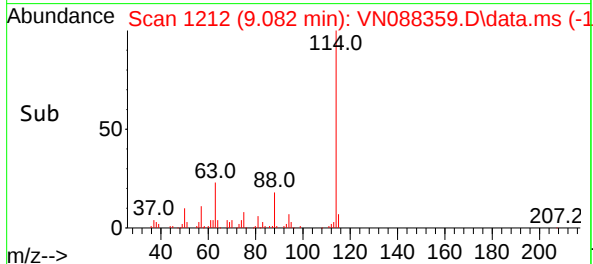
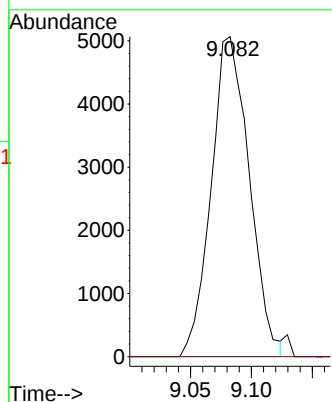
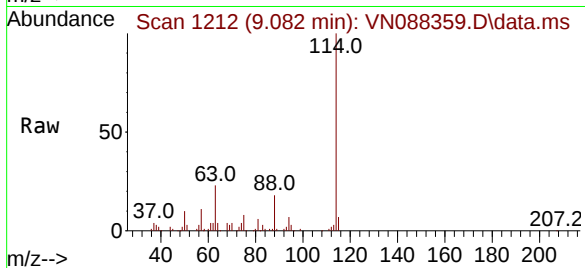
EFF-WW

Tgt Ion: 62 Resp: 11024

Ion Ratio Lower Upper

62 100

98 0.0 6.8 10.2#



#41

Bromodichloromethane

Concen: 0.870 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. -0.006 min

Lab File: VN088359.D

Acq: 25 Nov 2025 13:45

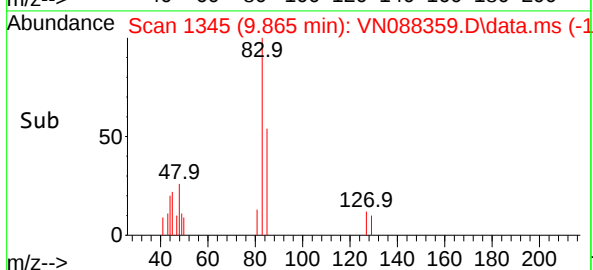
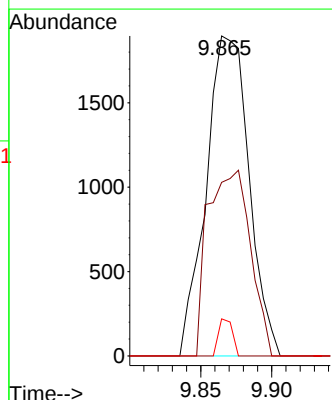
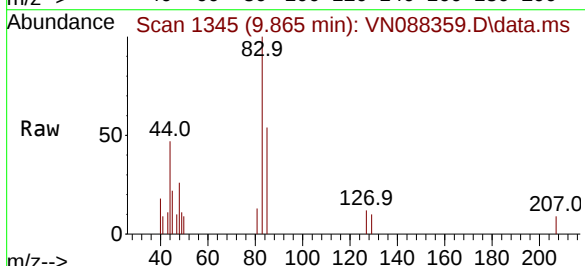
Tgt Ion: 83 Resp: 3982

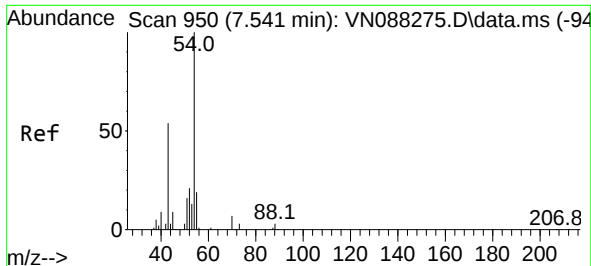
Ion Ratio Lower Upper

83 100

85 54.3 51.4 77.2

127 11.6 6.4 9.6#

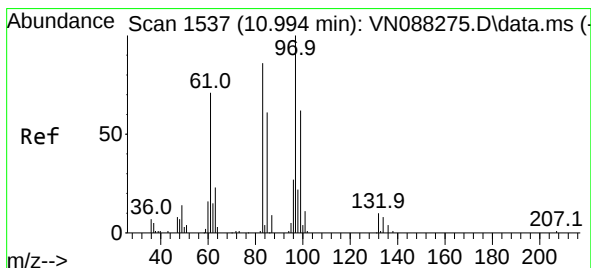
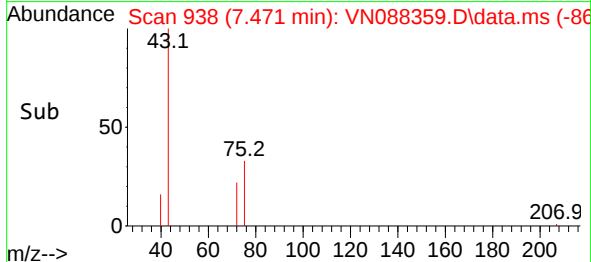
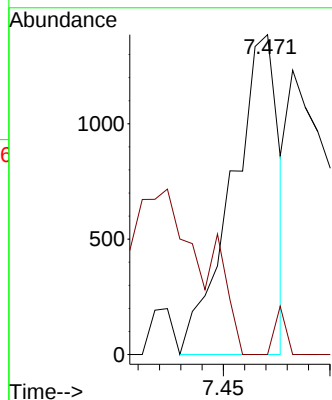
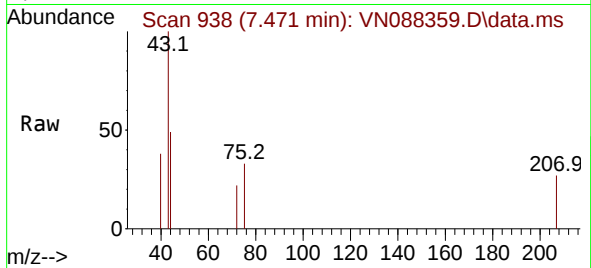




#43
Ethyl Acetate
Concen: 0.396 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.071 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

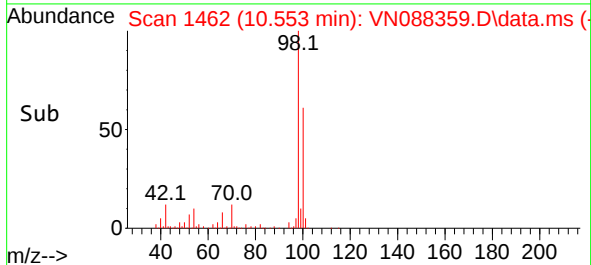
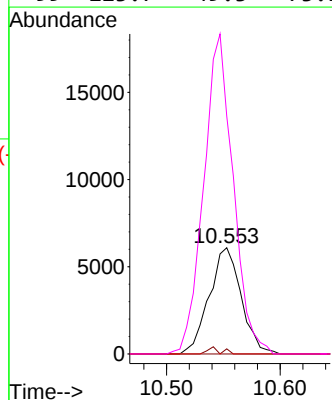
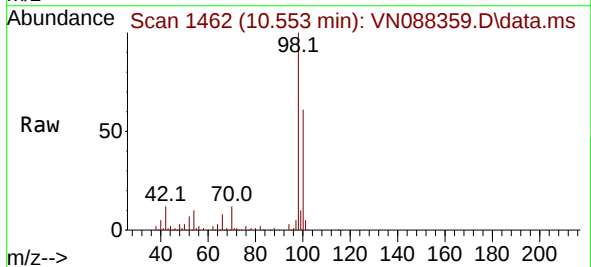
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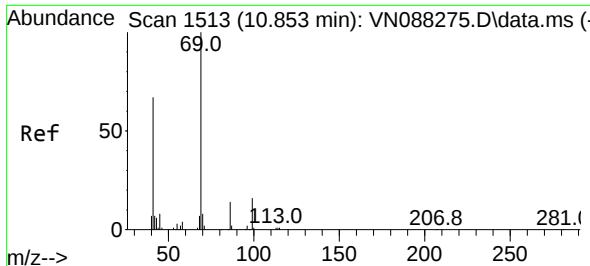
Tgt Ion: 43 Resp: 2116
Ion Ratio Lower Upper
43 100
45 12.7 9.9 14.9



#50
1,1,2-Trichloroethane
Concen: 4.242 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 97 Resp: 11924
Ion Ratio Lower Upper
97 100
83 4.8 68.6 102.8#
85 0.0 49.0 73.6#
99 223.7 49.3 73.9#

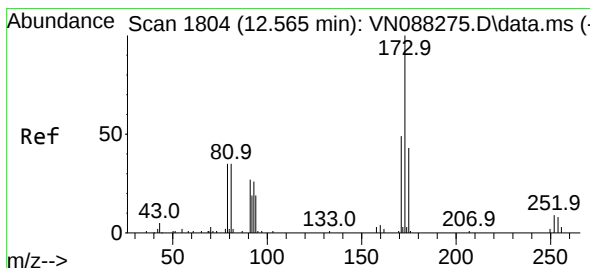
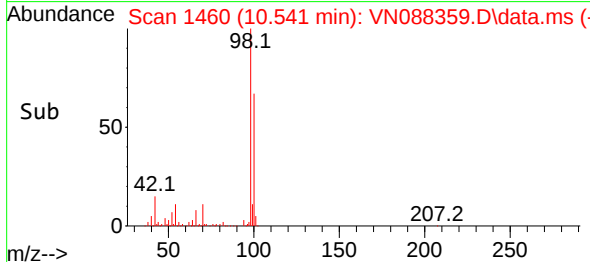
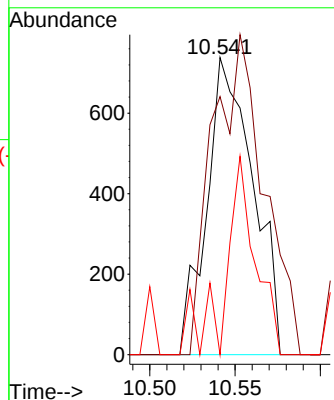
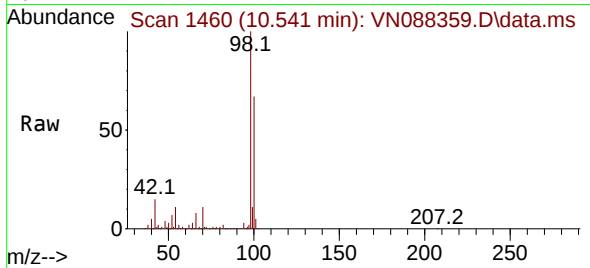




#51
Ethyl methacrylate
Concen: 0.302 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.312 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

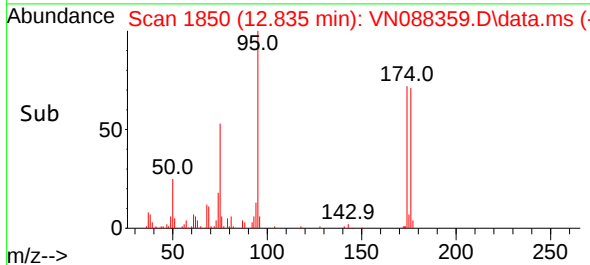
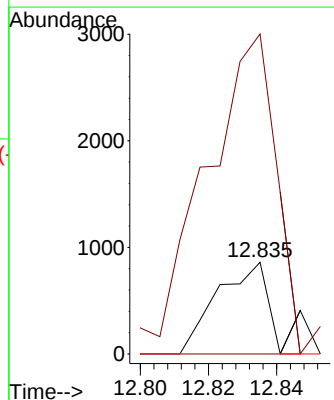
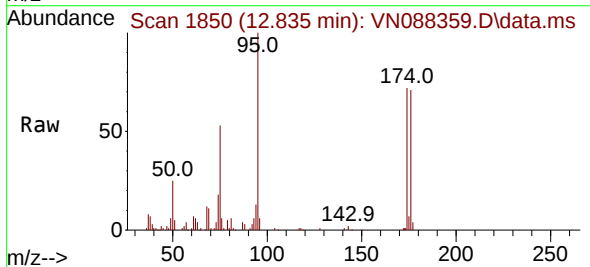
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

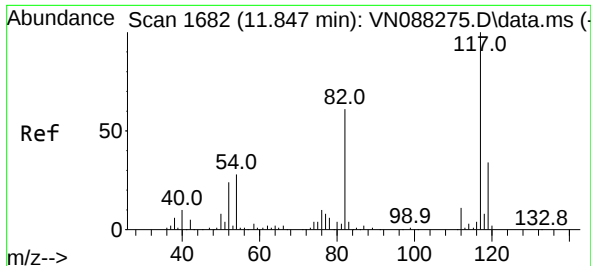
Tgt Ion: 69 Resp: 1398
Ion Ratio Lower Upper
69 100
41 86.9 33.6 100.8
39 0.0 23.4 70.2#



#56
Bromoform
Concen: 0.430 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.270 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion:173 Resp: 878
Ion Ratio Lower Upper
173 100
175 493.1 37.7 56.5#
254 0.0 5.9 8.9#

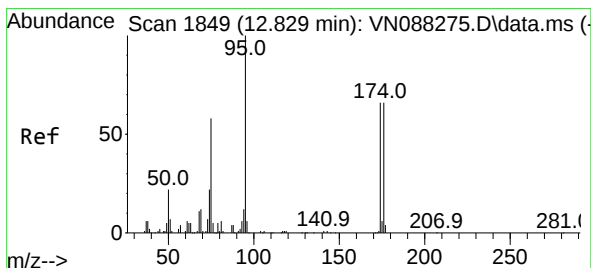
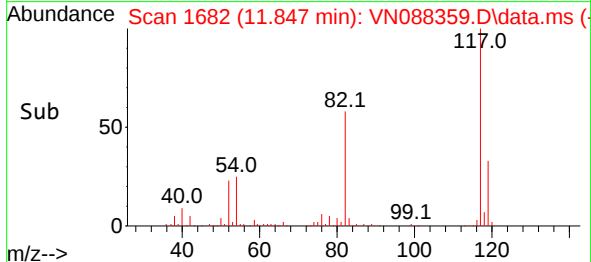
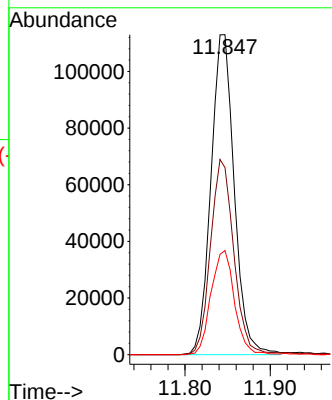
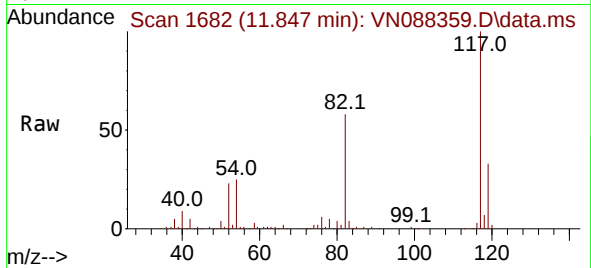




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

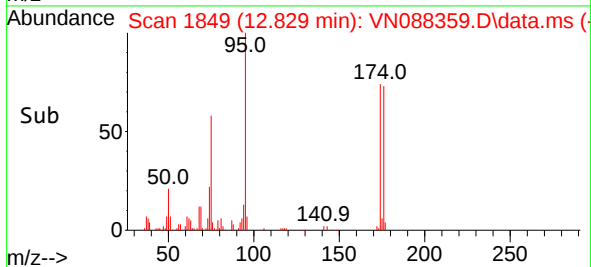
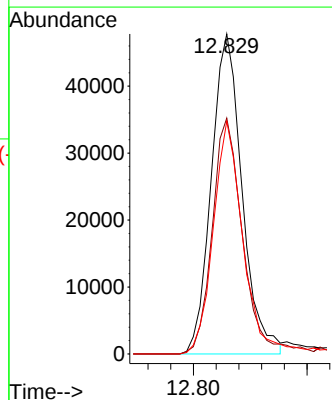
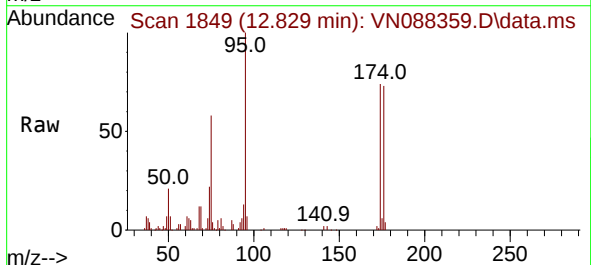
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

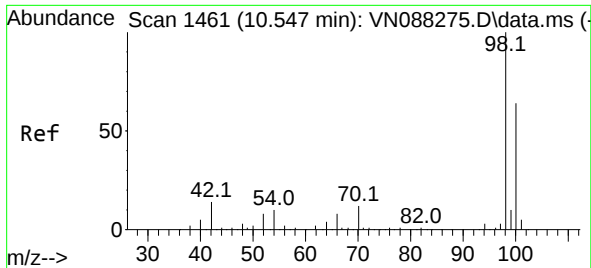
Tgt Ion:117 Resp: 214867
Ion Ratio Lower Upper
117 100
82 61.0 49.3 73.9
119 32.3 26.4 39.6



#60
4-Bromofluorobenzene
Concen: 24.689 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 95 Resp: 89677
Ion Ratio Lower Upper
95 100
174 73.2 54.5 81.7
176 70.5 53.8 80.6

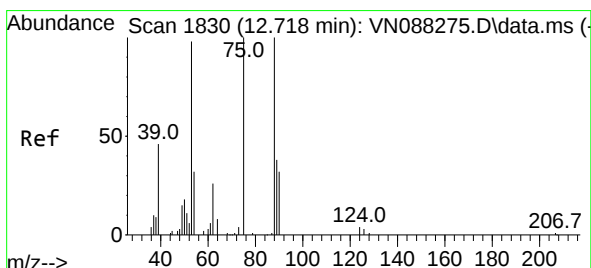
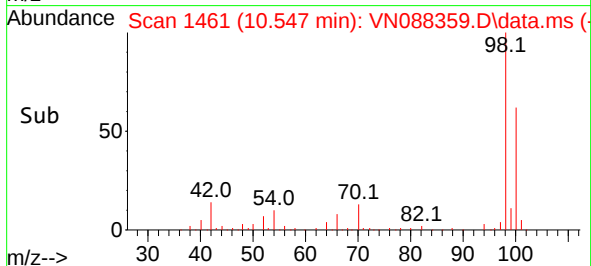
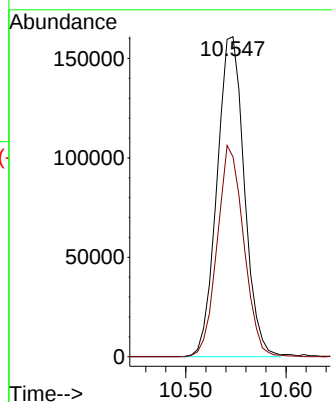
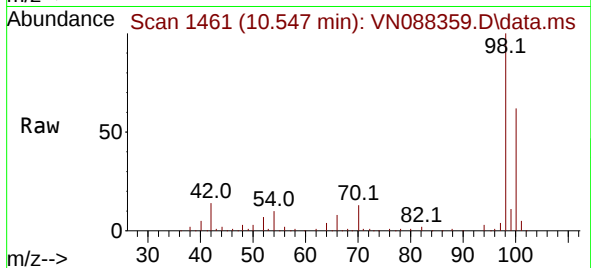




#63
Toluene-d8
Concen: 30.029 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

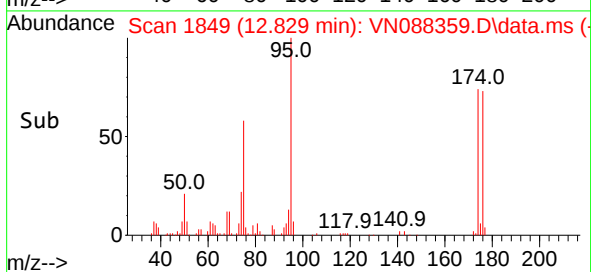
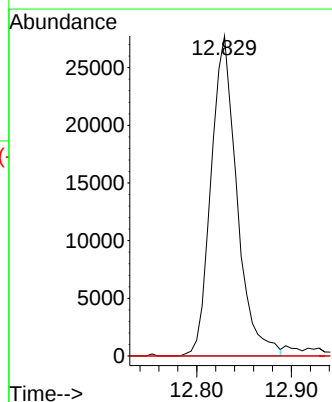
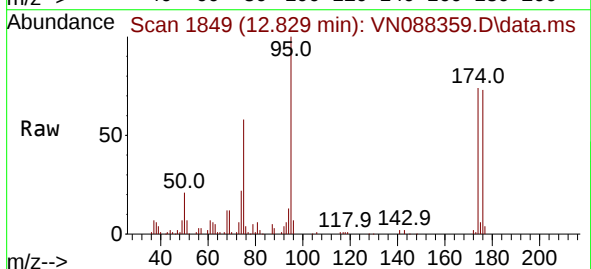
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

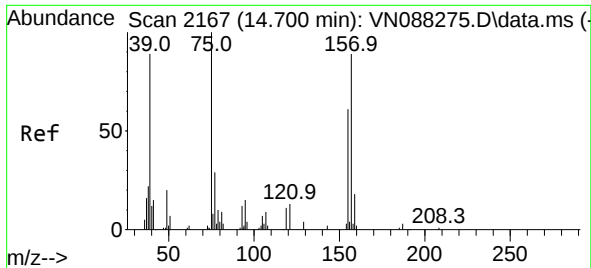
Tgt Ion: 98 Resp: 305474
Ion Ratio Lower Upper
98 100
100 64.0 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 38.548 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088359.D
Acq: 25 Nov 2025 13:45

Tgt Ion: 75 Resp: 52780
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 22.3 66.9#





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.239 ug/l

RT: 14.700 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN088359.D

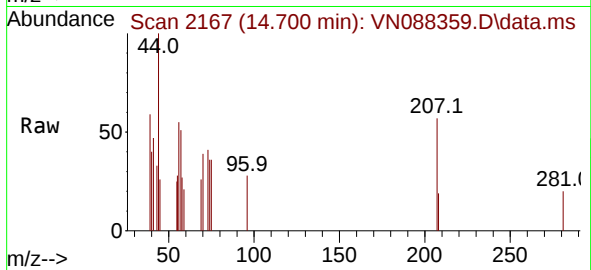
Acq: 25 Nov 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW



Tgt Ion:	75	Resp:	231
Ion	Ratio	Lower	Upper
75	100		
155	0.0	54.8	82.2#
157	0.0	70.7	106.1#

