

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086358.D
 Acq On : 21 Apr 2025 13:47
 Operator : JC\MD
 Sample : Q1833-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Quant Time: Apr 22 01:50:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

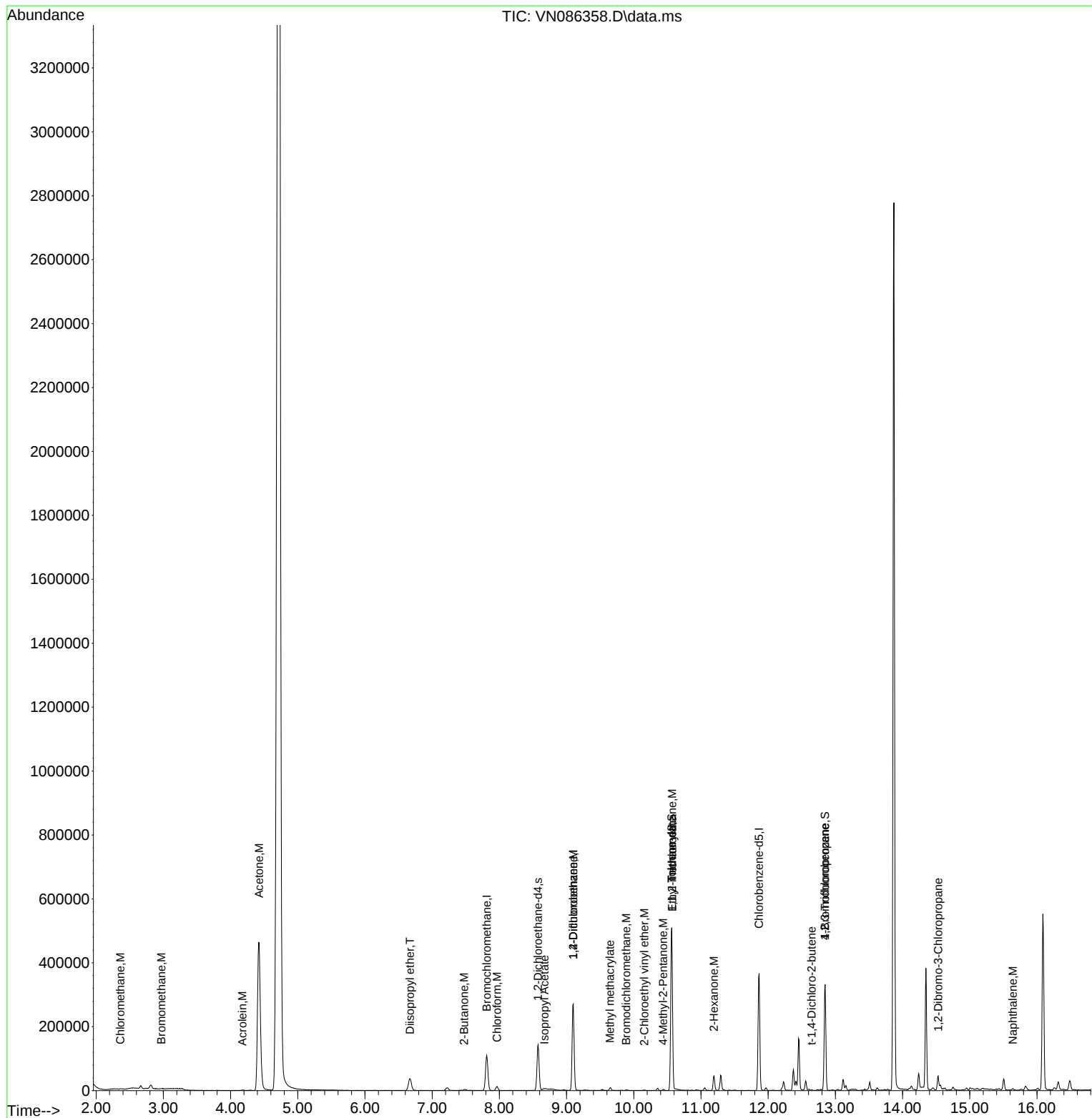
Internal Standards						
1) Bromochloromethane	7.812	128	39718	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	240756	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	218068	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	116751	30.137	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.467%
60) 4-Bromofluorobenzene	12.847	95	122371	28.185	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.967%
63) Toluene-d8	10.565	98	356620	28.967	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.567%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1042	0.237	ug/l	96
5) Bromomethane	2.971	94	433	0.207	ug/l #	59
13) Acrolein	4.177	56	899	1.852	ug/l #	12
15) Acetone	4.424	58	280570	613.728	ug/l	91
20) Diisopropyl ether	6.671	45	48466	4.277	ug/l	96
25) Chloroform	7.965	83	12028	2.086	ug/l	96
30) 2-Butanone	7.477	43	6099	2.552	ug/l #	85
36) 1,2-Dichloroethane	9.100	62	8200	1.910	ug/l #	72
41) Bromodichloromethane	9.888	83	995	0.210	ug/l #	96
44) Isopropyl Acetate	8.671	43	5036	0.563	ug/l #	57
46) Methyl methacrylate	9.647	41	2400	0.609	ug/l #	41
50) 1,1,2-Trichloroethane	10.571	97	11018	3.562	ug/l #	1
51) Ethyl methacrylate	10.571	69	1193	0.208	ug/l #	42
55) 2-Chloroethyl vinyl ether	10.159	63	815	0.375	ug/l #	45
58) 4-Methyl-2-Pentanone	10.435	43	2549	0.515	ug/l #	85
59) 2-Hexanone	11.194	43	30928	8.393	ug/l	97
72) 1,2,3-Trichloropropane	12.847	75	62738	14.476	ug/l	1
77) t-1,4-Dichloro-2-butene	12.647	75	899	0.450	ug/l #	12
88) 1,2-Dibromo-3-Chloropr...	14.529	75	1372	1.447	ug/l #	5
91) Naphthalene	15.641	128	2439	0.214	ug/l #	83

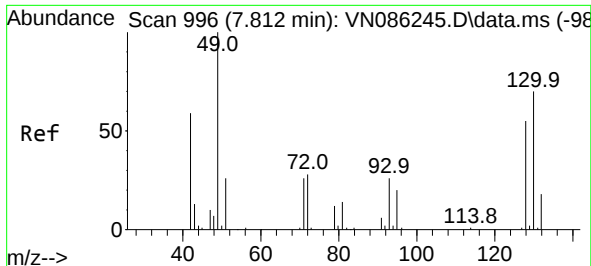
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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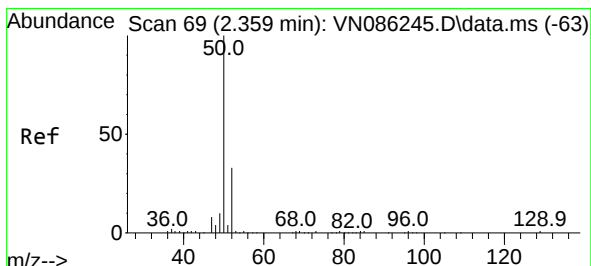
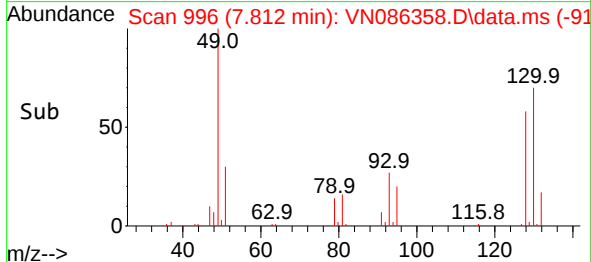
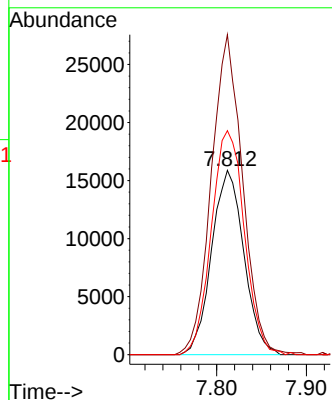
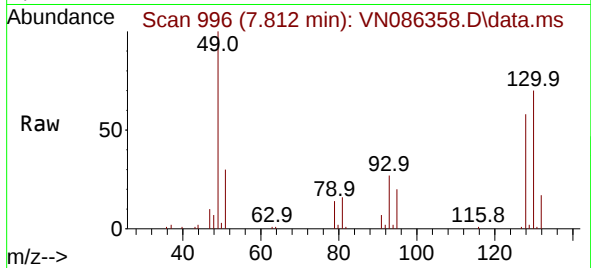




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

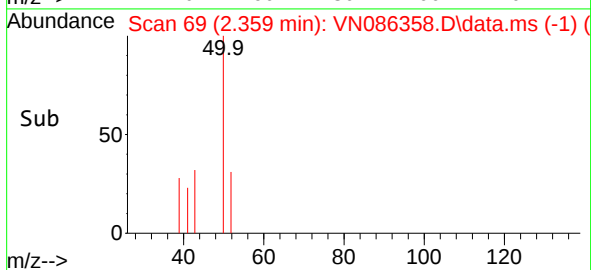
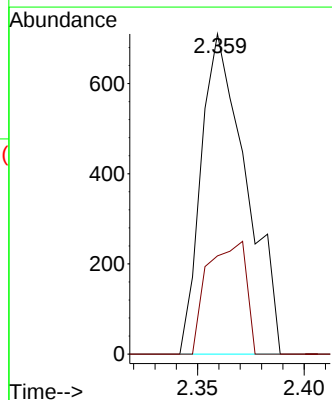
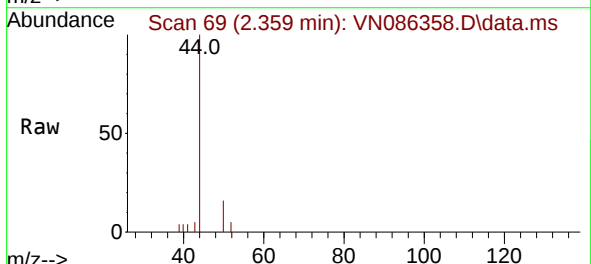
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

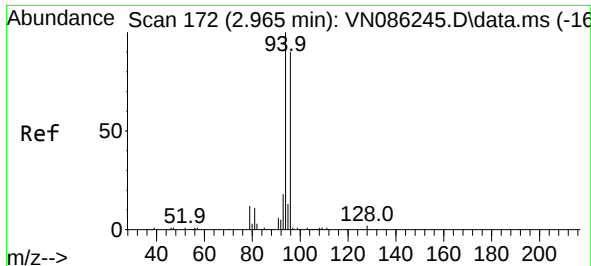
Tgt Ion:128 Resp: 39718
Ion Ratio Lower Upper
128 100
49 168.1 0.0 452.5
130 124.3 0.0 315.0



#3
Chloromethane
Concen: 0.237 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 50 Resp: 1042
Ion Ratio Lower Upper
50 100
52 30.7 26.4 39.6

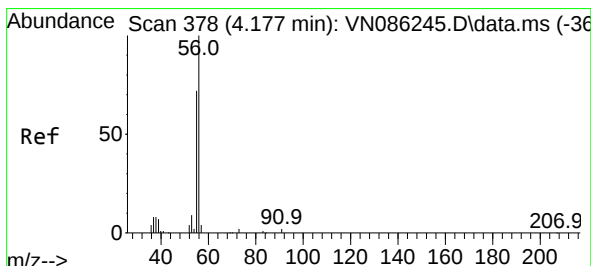
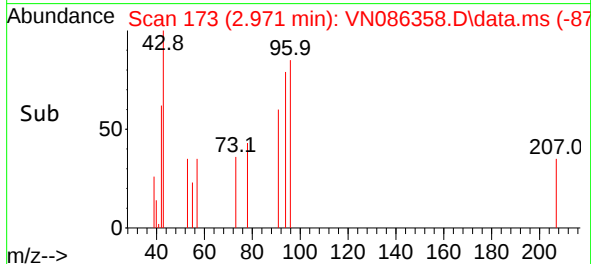
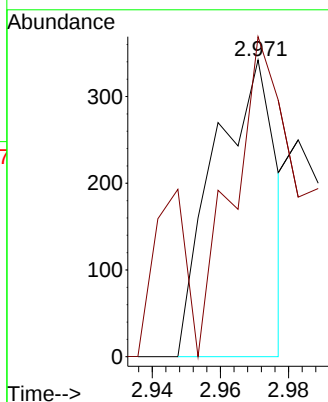
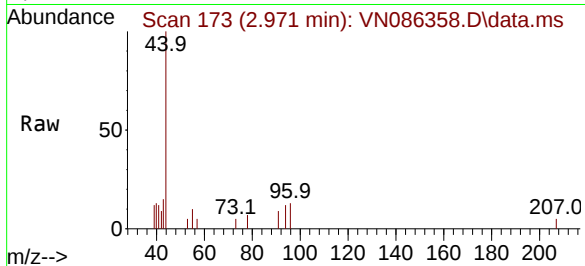




#5
Bromomethane
Concen: 0.207 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

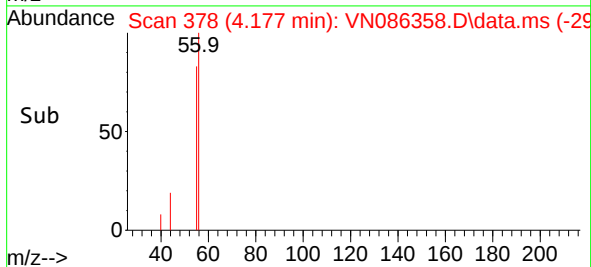
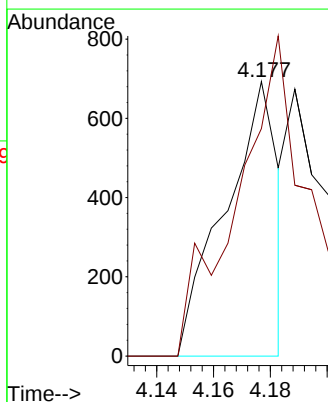
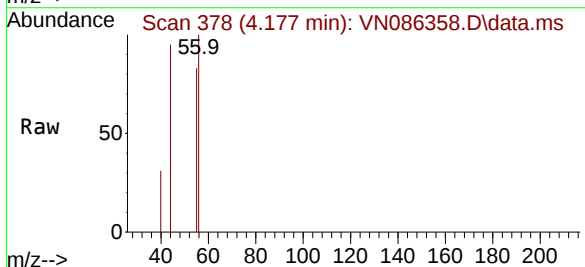
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

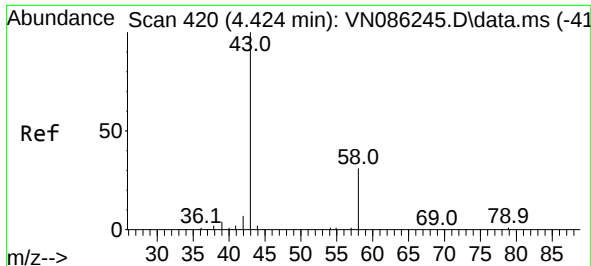
Tgt Ion: 94 Resp: 433
Ion Ratio Lower Upper
94 100
96 51.5 72.2 108.2#



#13
Acrolein
Concen: 1.852 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 56 Resp: 899
Ion Ratio Lower Upper
56 100
55 143.5 56.5 84.7#

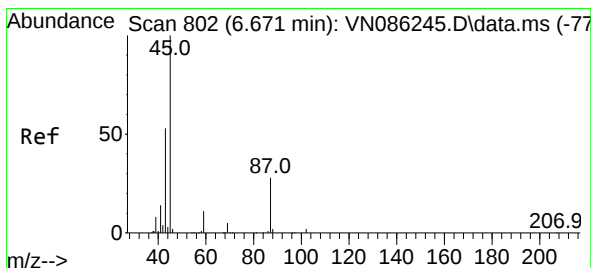
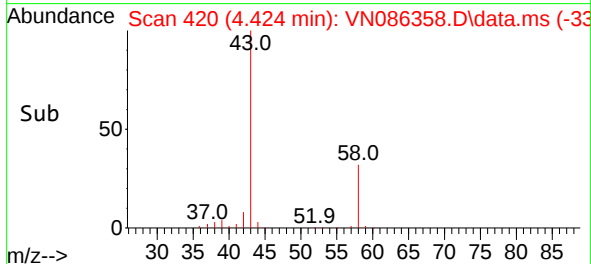
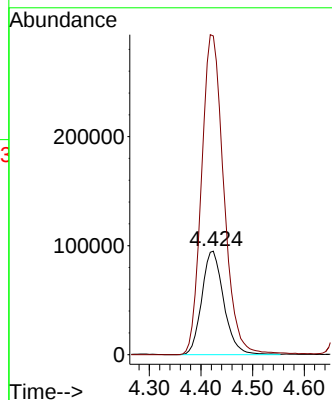
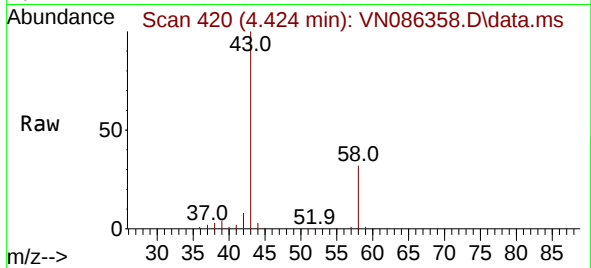




#15
Acetone
Concen: 613.728 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

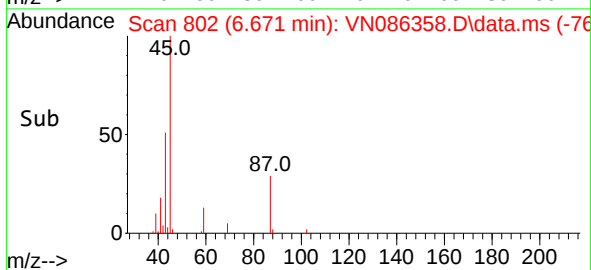
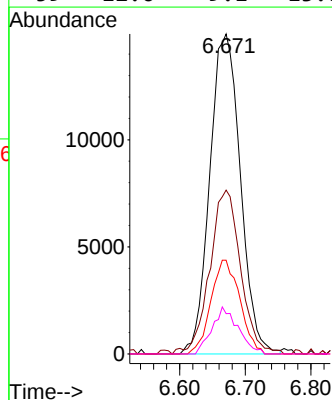
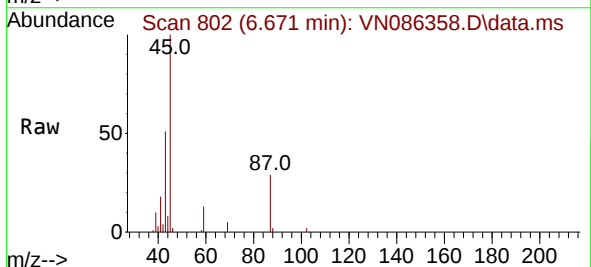
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

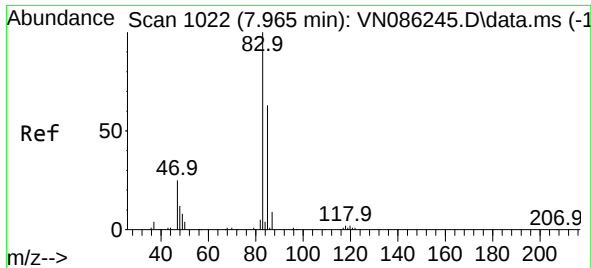
Tgt Ion: 58 Resp: 280570
Ion Ratio Lower Upper
58 100
43 307.7 261.8 392.8



#20
Diisopropyl ether
Concen: 4.277 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 45 Resp: 48466
Ion Ratio Lower Upper
45 100
43 50.1 42.3 63.5
87 29.3 22.2 33.4
59 12.6 9.1 13.7

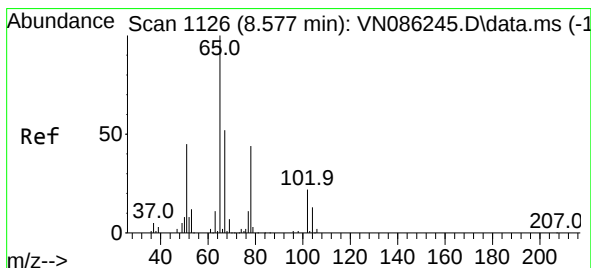
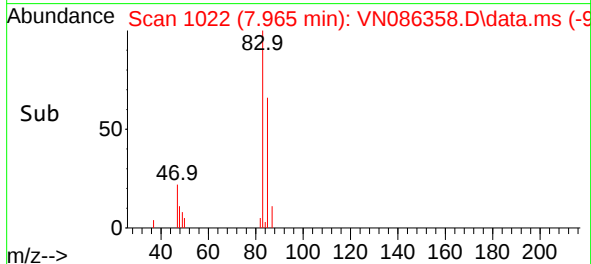
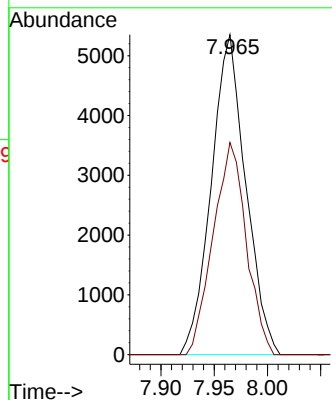
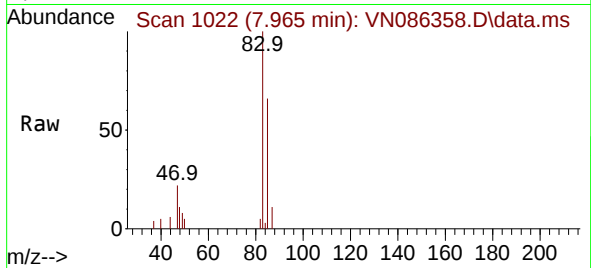




#25
Chloroform
Concen: 2.086 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

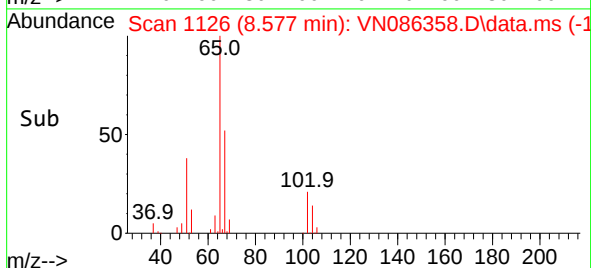
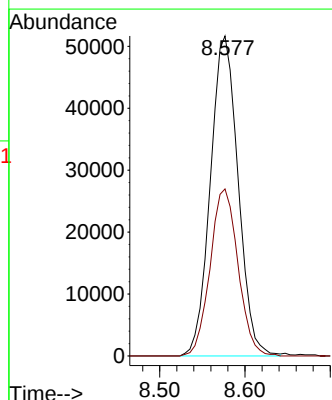
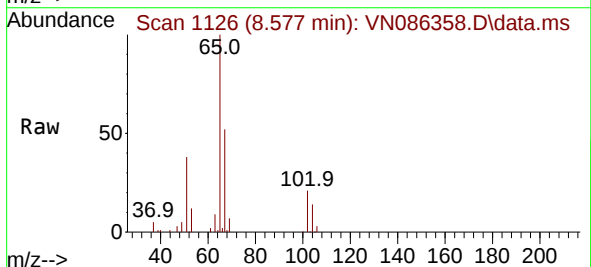
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

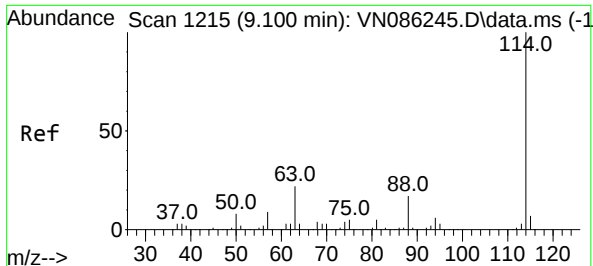
Tgt Ion: 83 Resp: 12028
Ion Ratio Lower Upper
83 100
85 66.3 50.5 75.7



#27
1,2-Dichloroethane-d4
Concen: 30.137 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 65 Resp: 116751
Ion Ratio Lower Upper
65 100
67 52.5 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086358.D

Acq: 21 Apr 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

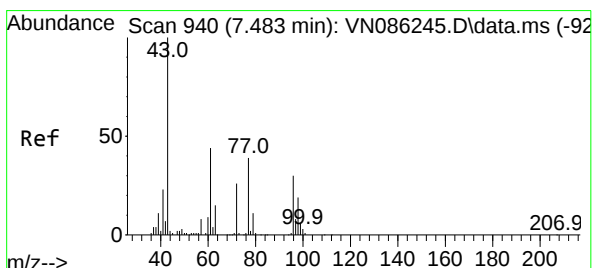
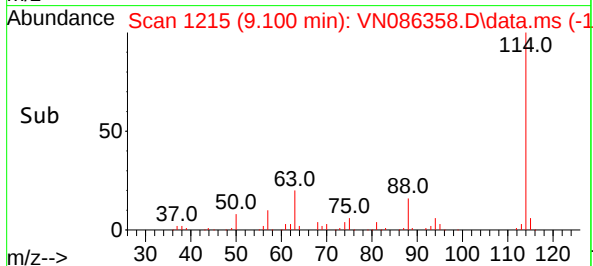
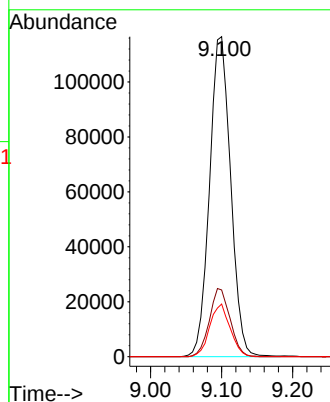
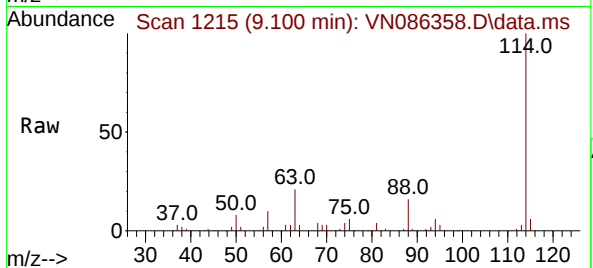
Tgt Ion:114 Resp: 240756

Ion Ratio Lower Upper

114 100

63 20.8 17.8 26.6

88 15.9 13.4 20.2



#30

2-Butanone

Concen: 2.552 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086358.D

Acq: 21 Apr 2025 13:47

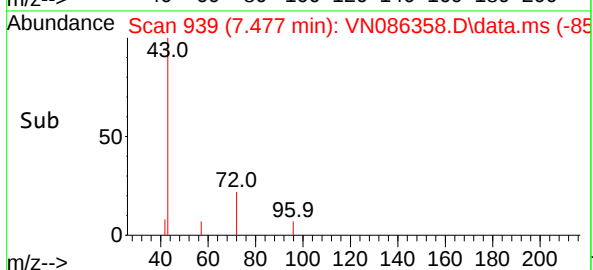
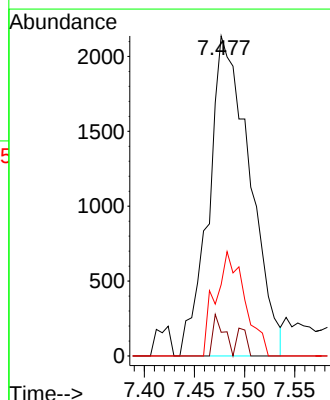
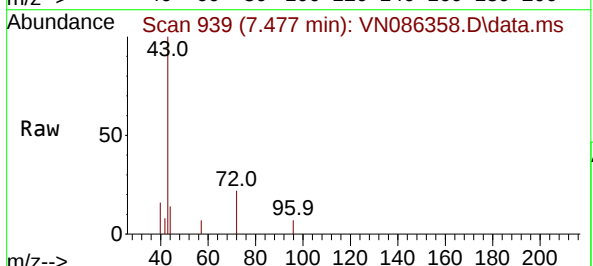
Tgt Ion: 43 Resp: 6099

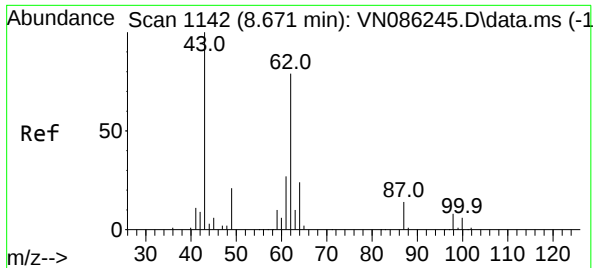
Ion Ratio Lower Upper

43 100

57 3.5 6.4 9.6#

72 18.8 21.5 32.3#

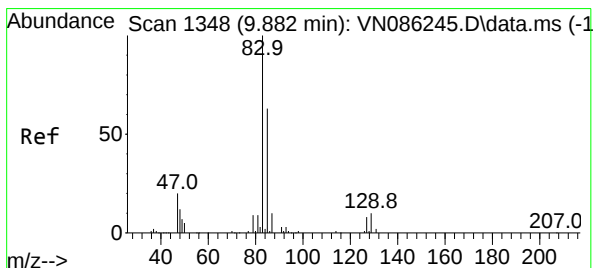
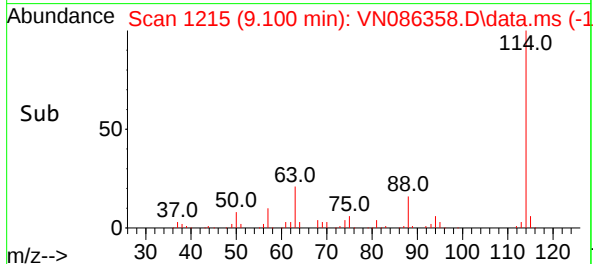
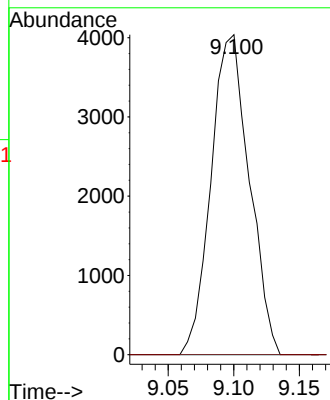
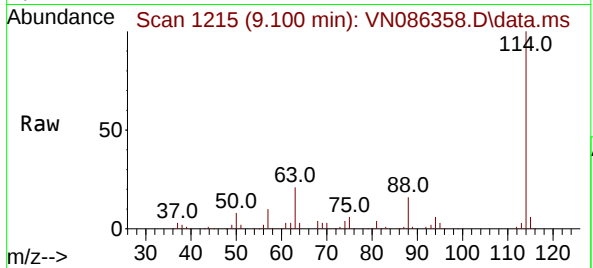




#36
1,2-Dichloroethane
Concen: 1.910 ug/l
RT: 9.100 min Scan# 1142
Delta R.T. 0.429 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

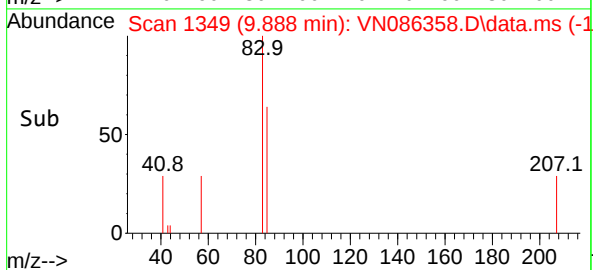
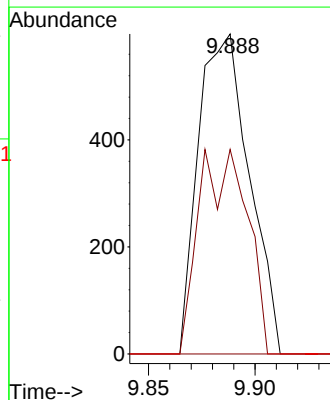
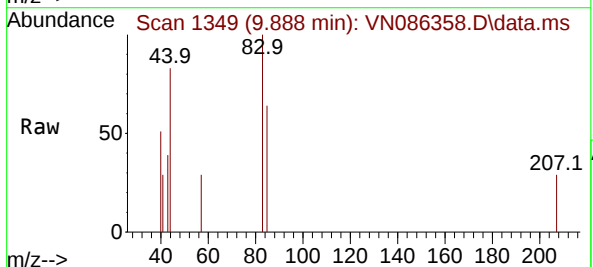
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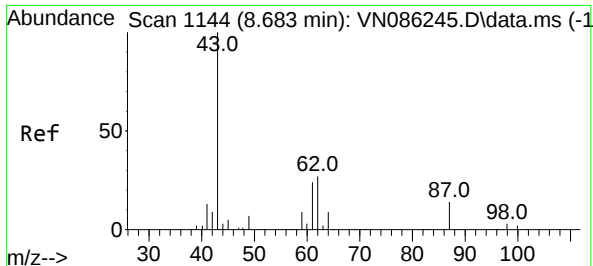
Tgt Ion: 62 Resp: 8200
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#



#41
Bromodichloromethane
Concen: 0.210 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 83 Resp: 995
Ion Ratio Lower Upper
83 100
85 63.9 50.2 75.2
127 0.0 6.2 9.4#

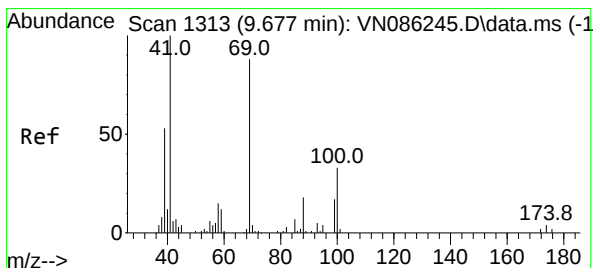
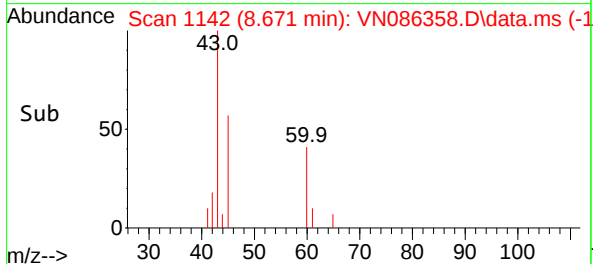
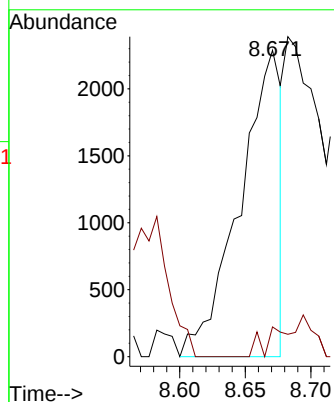
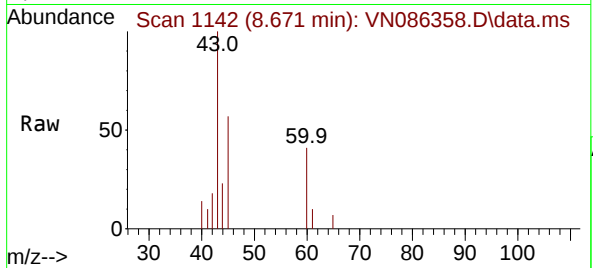




#44
Isopropyl Acetate
Concen: 0.563 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.012 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

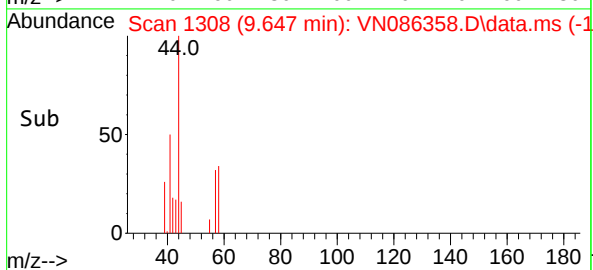
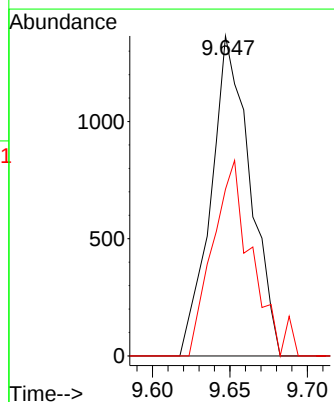
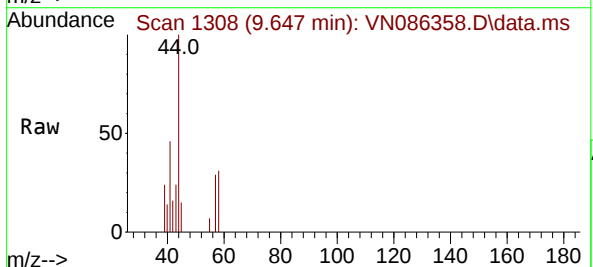
Instrument :
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EFF-WASTE-WATER

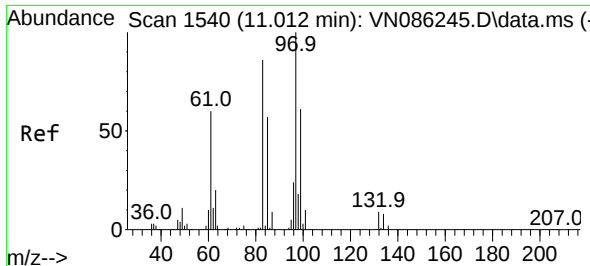
Tgt Ion: 43 Resp: 5036
Ion Ratio Lower Upper
43 100
61 4.0 20.5 30.7#



#46
Methyl methacrylate
Concen: 0.609 ug/l
RT: 9.647 min Scan# 1308
Delta R.T. -0.030 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 41 Resp: 2400
Ion Ratio Lower Upper
41 100
69 0.0 43.2 129.6#
39 52.1 26.4 79.0

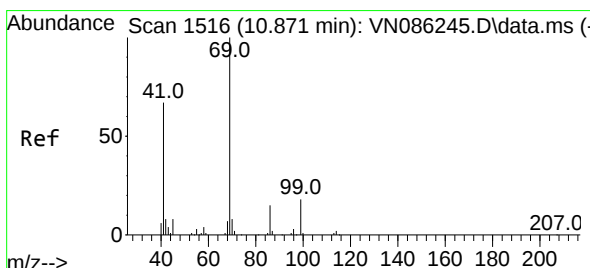
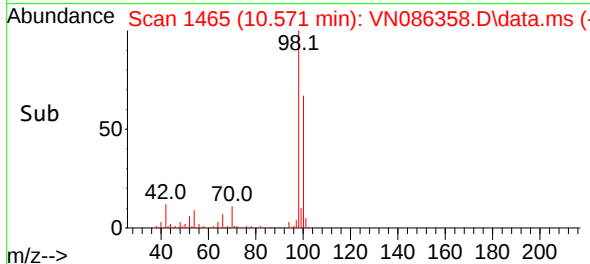
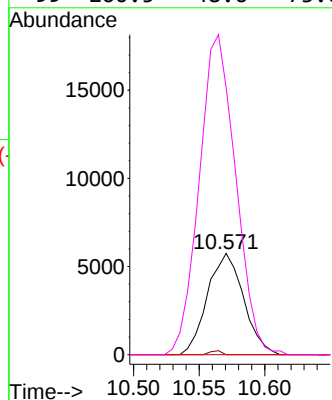
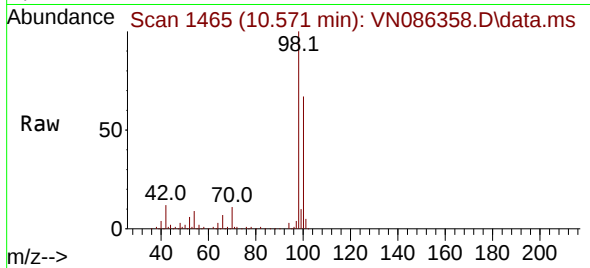




#50
1,1,2-Trichloroethane
Concen: 3.562 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

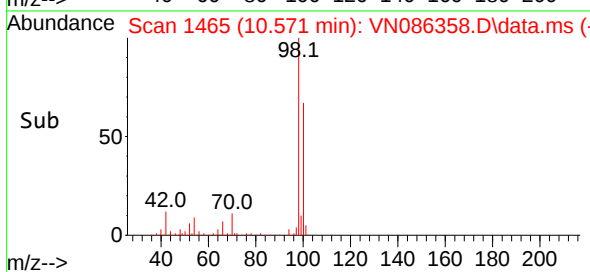
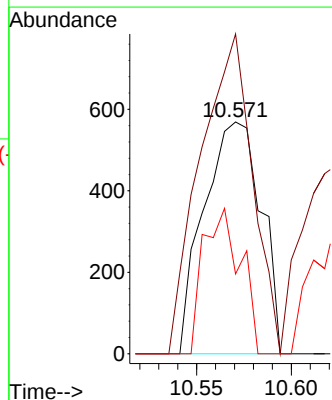
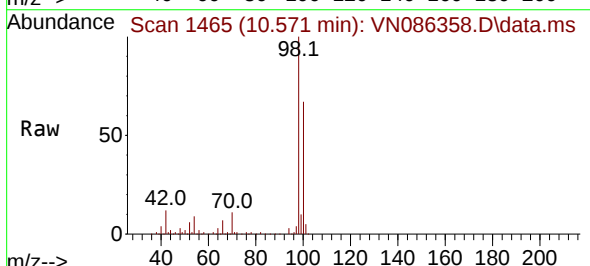
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

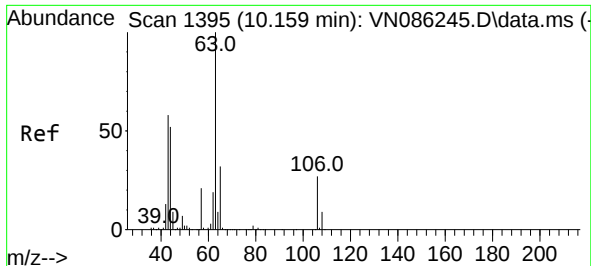
Tgt Ion: 97	Resp: 11018
Ion Ratio	Lower Upper
97 100	
83 0.0	68.6 103.0#
85 0.0	45.9 68.9#
99 260.5	48.6 73.0#



#51
Ethyl methacrylate
Concen: 0.208 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.300 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 69	Resp: 1193
Ion Ratio	Lower Upper
69 100	
41 138.0	33.6 100.6#
39 34.4	17.8 53.4

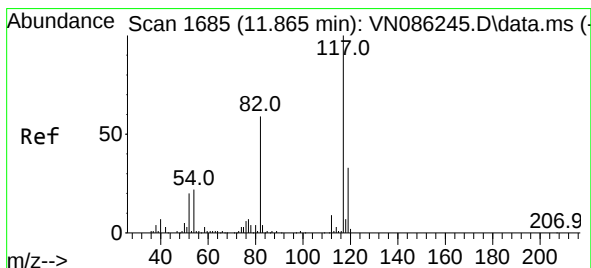
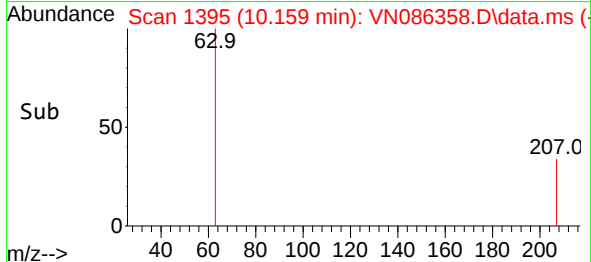
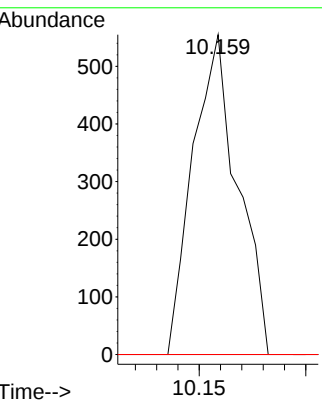
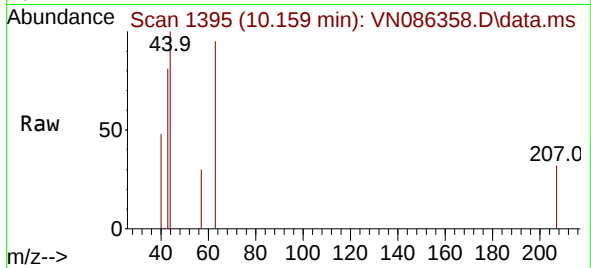




#55
2-Chloroethyl vinyl ether
Concen: 0.375 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

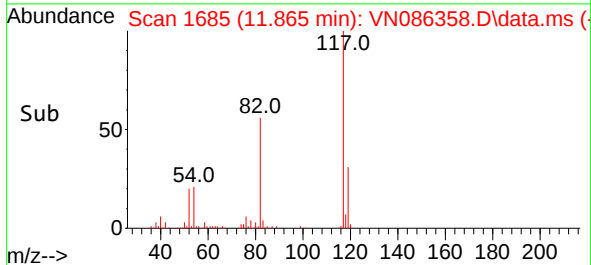
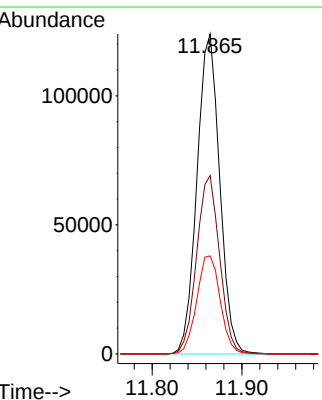
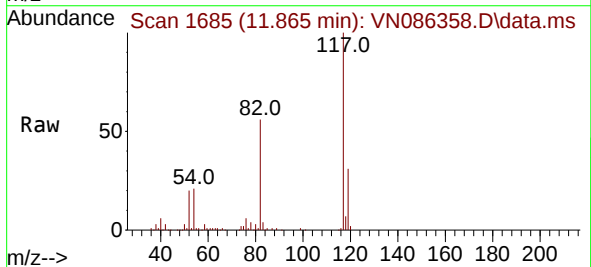
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

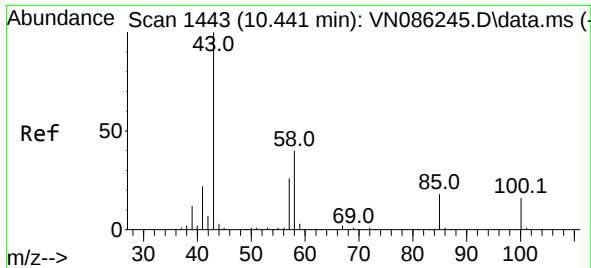
Tgt Ion: 63 Resp: 815
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.8#
106 0.0 21.8 32.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 117 Resp: 218068
Ion Ratio Lower Upper
117 100
82 56.3 47.3 70.9
119 31.7 25.9 38.9

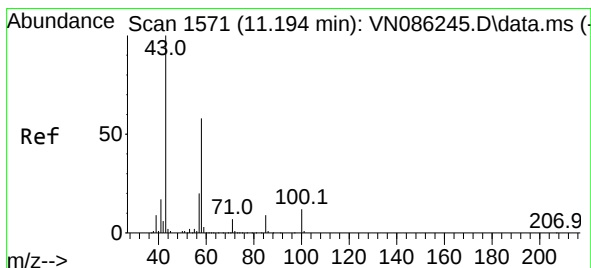
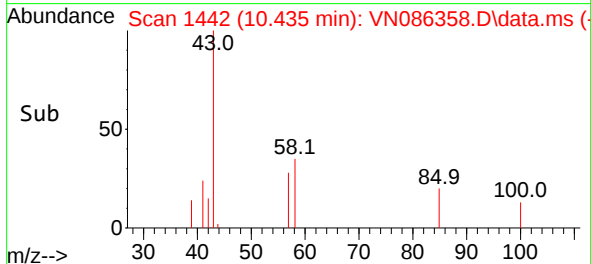
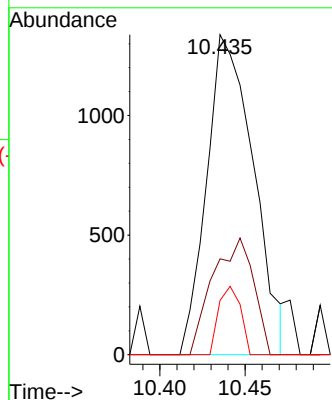
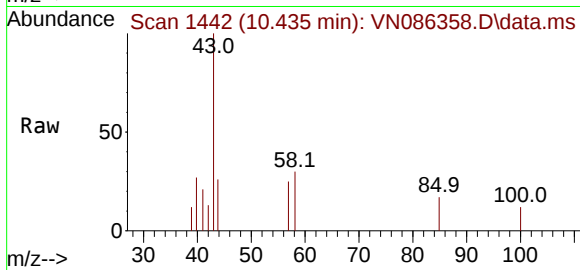




#58
4-Methyl-2-Pentanone
Concen: 0.515 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

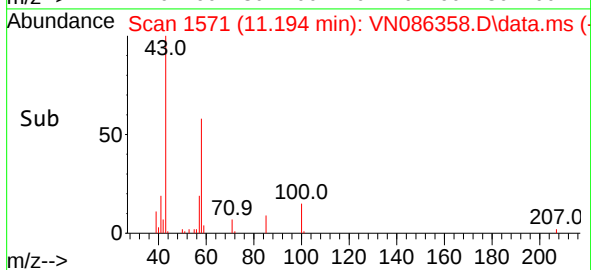
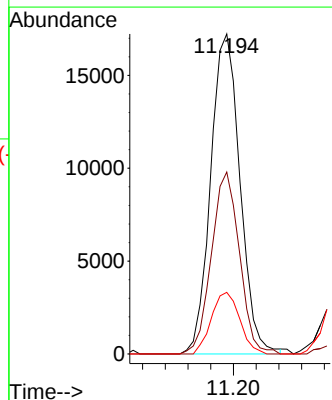
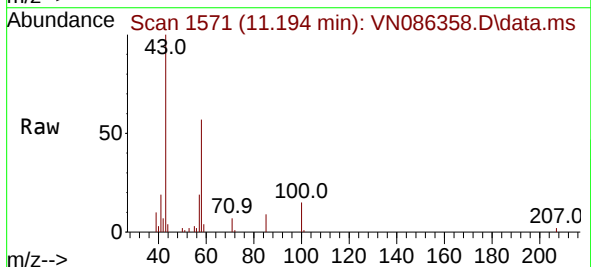
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

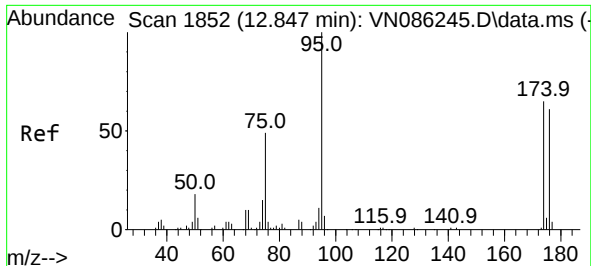
Tgt Ion: 43 Resp: 2549
Ion Ratio Lower Upper
43 100
58 32.0 32.5 48.7#
85 10.0 14.4 21.6#



#59
2-Hexanone
Concen: 8.393 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 43 Resp: 30928
Ion Ratio Lower Upper
43 100
58 54.3 45.3 67.9
57 18.6 15.8 23.6

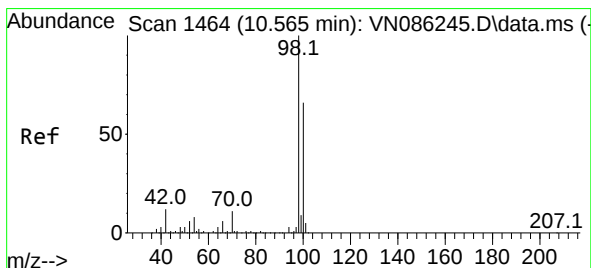
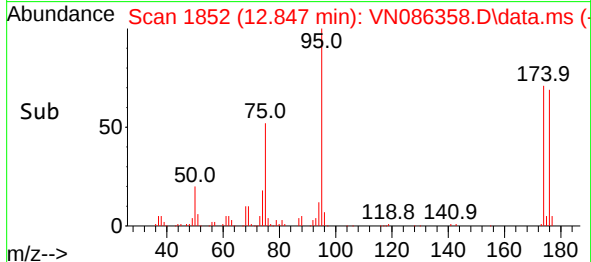
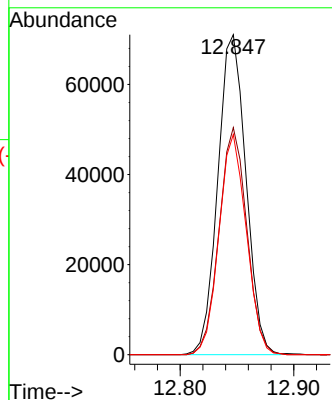
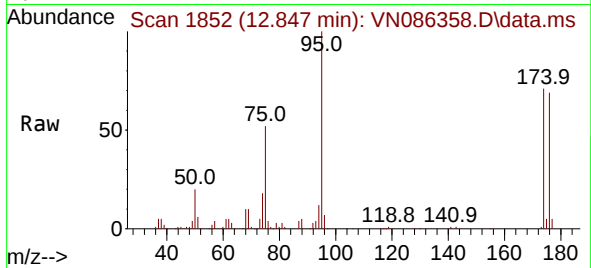




#60
4-Bromofluorobenzene
Concen: 28.185 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

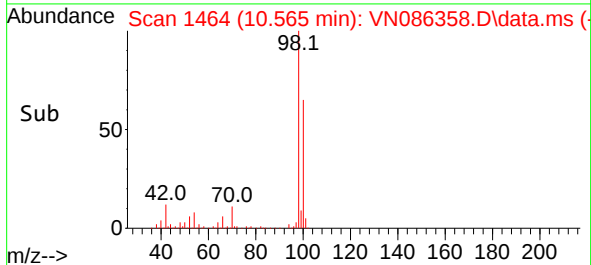
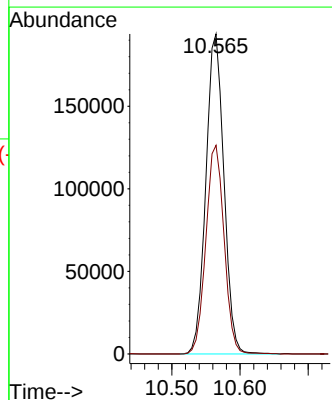
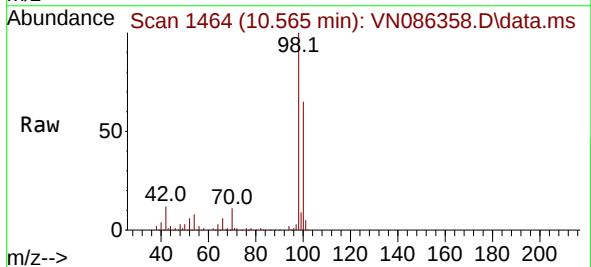
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

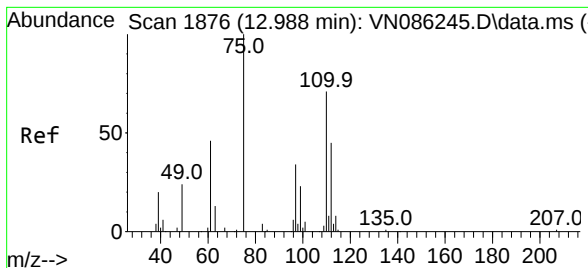
Tgt Ion: 95 Resp: 122371
Ion Ratio Lower Upper
95 100
174 69.8 52.7 79.1
176 66.9 49.8 74.8



#63
Toluene-d8
Concen: 28.967 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086358.D
Acq: 21 Apr 2025 13:47

Tgt Ion: 98 Resp: 356620
Ion Ratio Lower Upper
98 100
100 65.8 52.3 78.5





#72

1,2,3-Trichloropropane

Concen: 14.476 ug/l

RT: 12.847 min Scan# 1818

Delta R.T. -0.141 min

Lab File: VN086358.D

Acq: 21 Apr 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

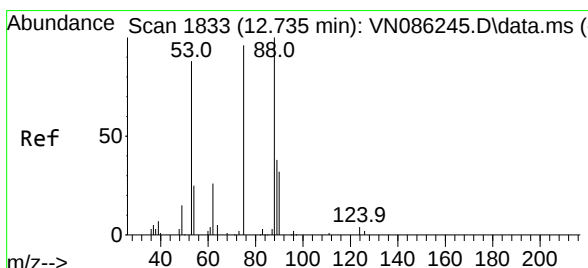
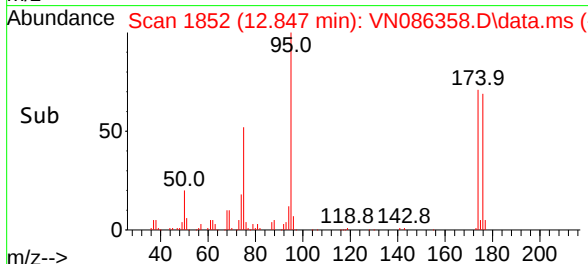
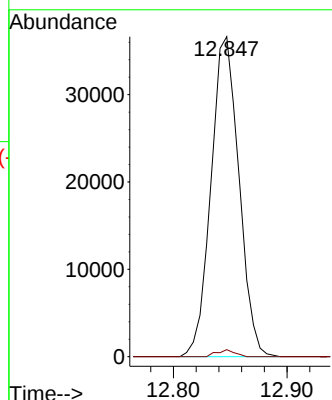
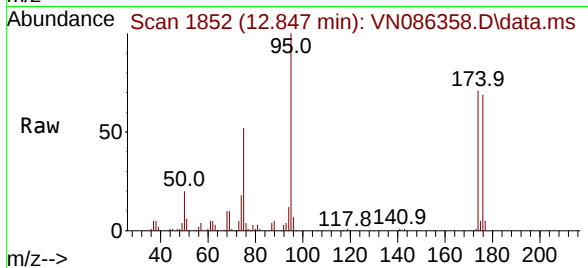
EFF-WASTE-WATER

Tgt Ion: 75 Resp: 62738

Ion Ratio Lower Upper

75 100

77 1.4 0.0 380.0



#77

t-1,4-Dichloro-2-butene

Concen: 0.450 ug/l

RT: 12.647 min Scan# 1818

Delta R.T. -0.088 min

Lab File: VN086358.D

Acq: 21 Apr 2025 13:47

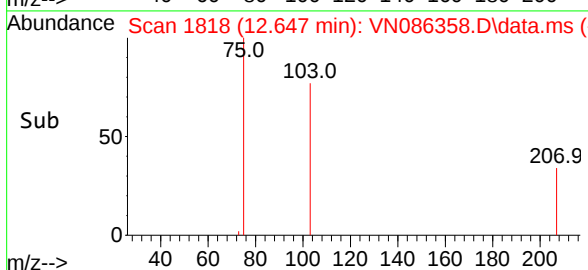
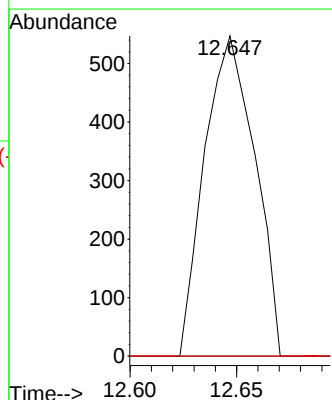
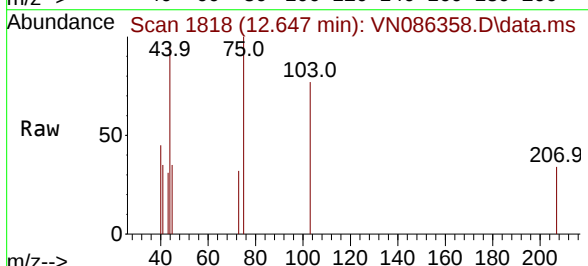
Tgt Ion: 75 Resp: 899

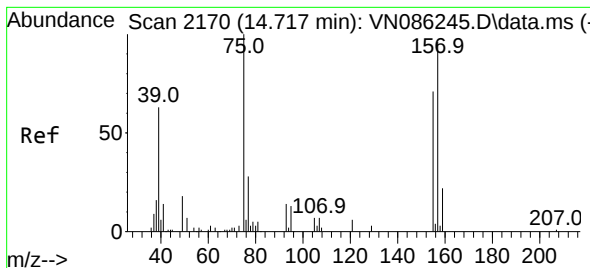
Ion Ratio Lower Upper

75 100

53 0.0 46.4 139.2#

89 0.0 22.5 67.5#





#88

1,2-Dibromo-3-Chloropropane

Concen: 1.447 ug/l

RT: 14.529 min Scan# 2138

Delta R.T. -0.188 min

Lab File: VN086358.D

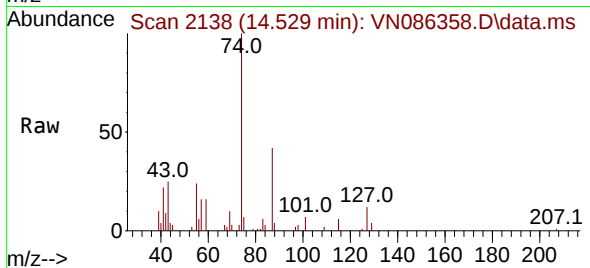
Acq: 21 Apr 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER



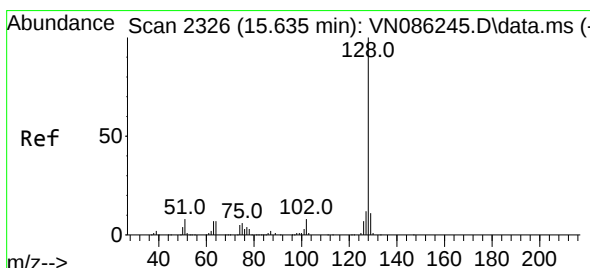
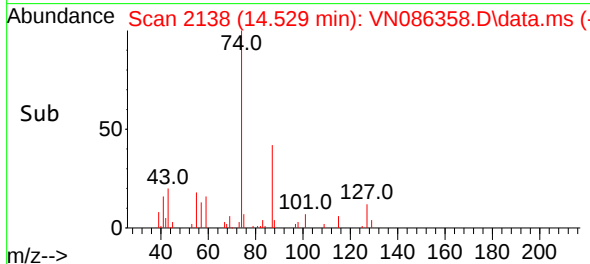
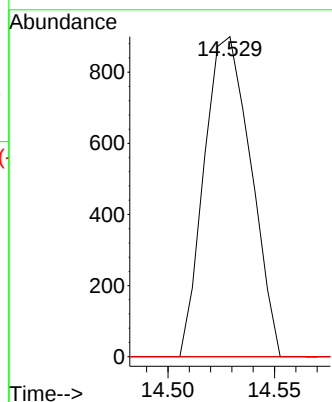
Tgt Ion: 75 Resp: 1372

Ion Ratio Lower Upper

75 100

155 0.0 60.3 90.5#

157 0.0 79.0 118.4#



#91

Naphthalene

Concen: 0.214 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN086358.D

Acq: 21 Apr 2025 13:47

Tgt Ion:128 Resp: 2439

Ion Ratio Lower Upper

128 100

127 20.2 10.2 15.2#

129 5.3 8.8 13.2#

