

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077177.D
 Acq On : 24 Mar 2023 13:12
 Operator : JC\MD
 Sample : 02004-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Quant Time: Mar 24 23:29:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

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

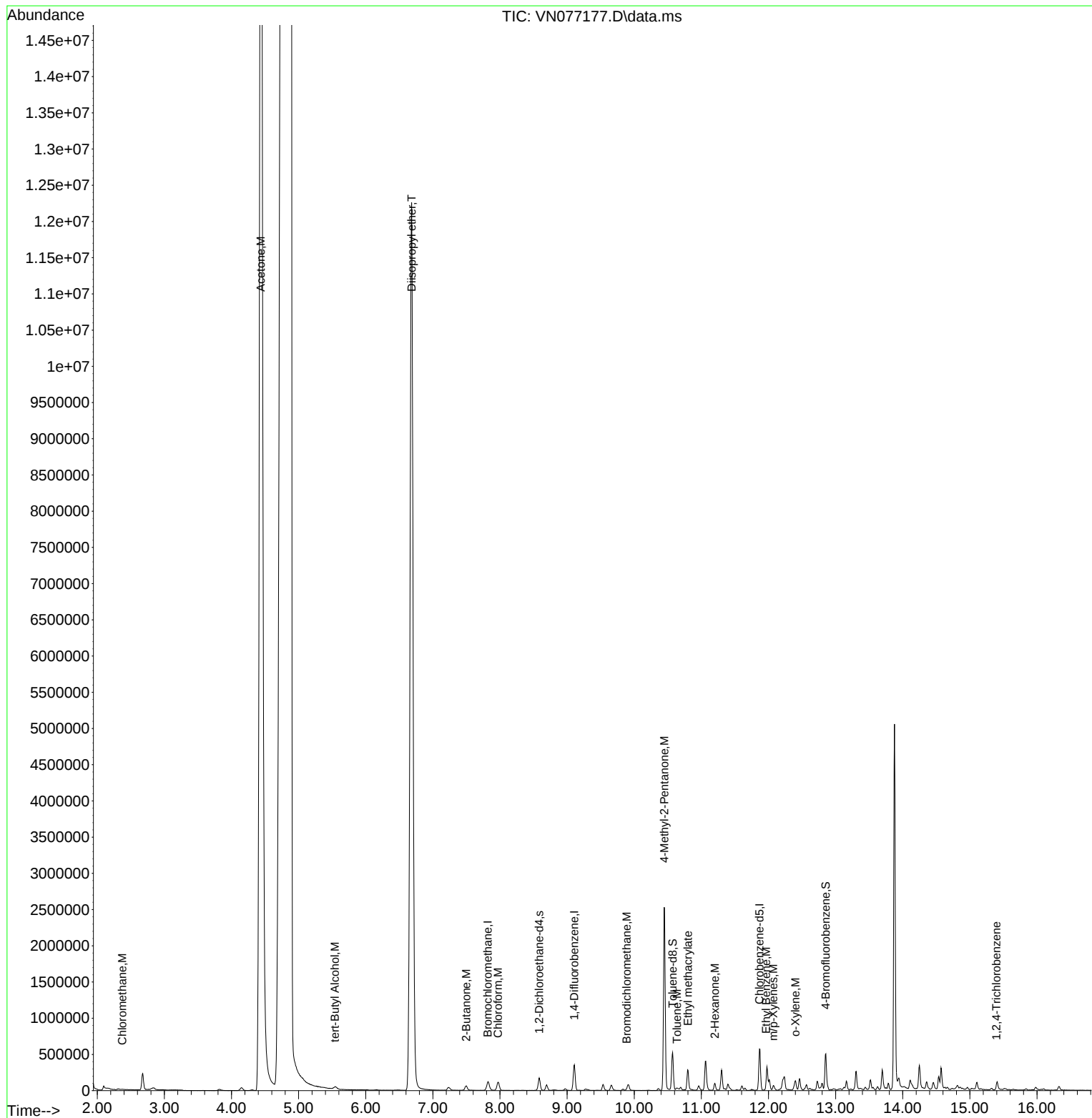
Internal Standards						
1) Bromochloromethane	7.819	128	39634	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	285175	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	318055	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	128537	31.934	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.433%
60) 4-Bromofluorobenzene	12.854	95	164410	28.774	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.900%
63) Toluene-d8	10.572	98	341033	30.038	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.133%
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	2036	0.490	ug/l #	77
15) Acetone	4.437	58	13899210	19705.053	ug/l #	38
20) Diisopropyl ether	6.684	45	15621999	950.736	ug/l	96
23) tert-Butyl Alcohol	5.542	59	42488	46.402	ug/l #	100
25) Chloroform	7.972	83	105388	11.643	ug/l	96
30) 2-Butanone	7.495	43	98435	24.665	ug/l #	96
41) Bromodichloromethane	9.889	83	10743	1.453	ug/l #	76
51) Ethyl methacrylate	10.801	69	45327	5.761	ug/l	63
58) 4-Methyl-2-Pentanone	10.448	43	1699381	207.021	ug/l	99
59) 2-Hexanone	11.201	43	65946	11.018	ug/l	98
62) Toluene	10.636	91	15628	0.699	ug/l	97
66) Ethyl Benzene	11.966	91	5288	0.220	ug/l	92
67) m/p-Xylenes	12.071	106	3533	0.382	ug/l	99
68) o-Xylene	12.401	106	6908	0.763	ug/l	90
89) 1,2,4-Trichlorobenzene	15.395	180	1300	0.300	ug/l #	64

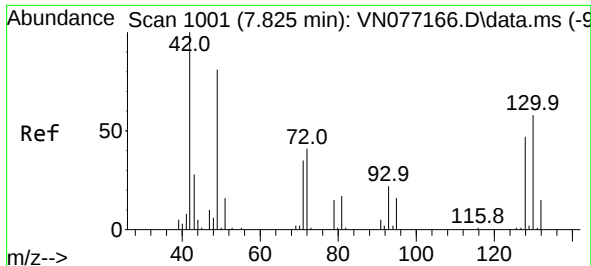
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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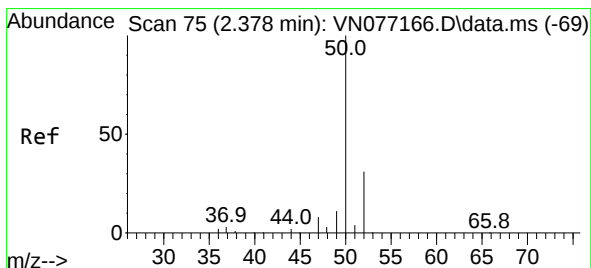
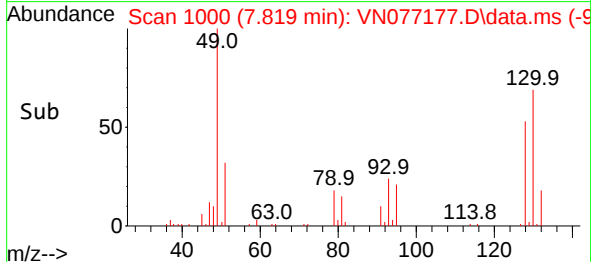
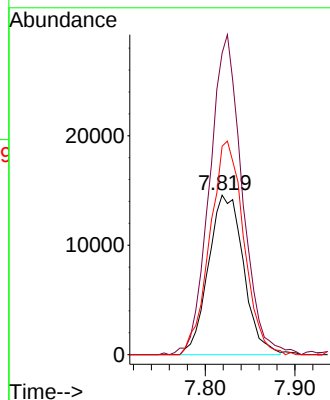
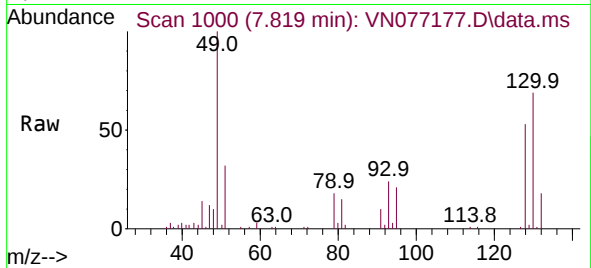




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

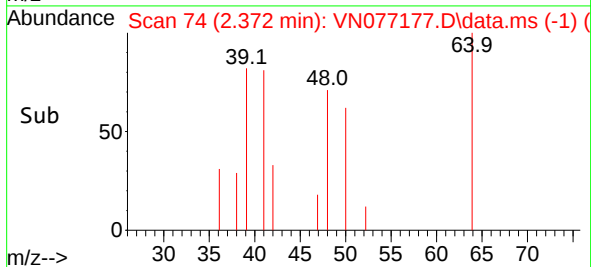
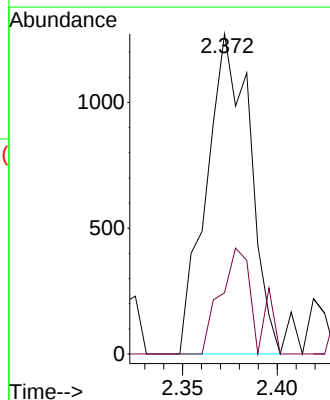
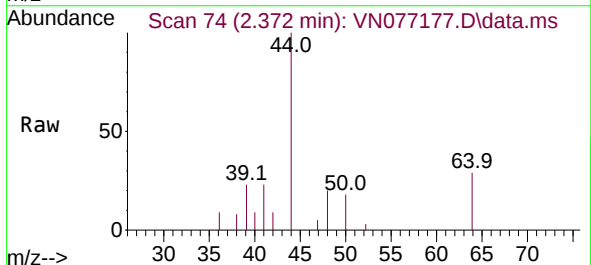
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

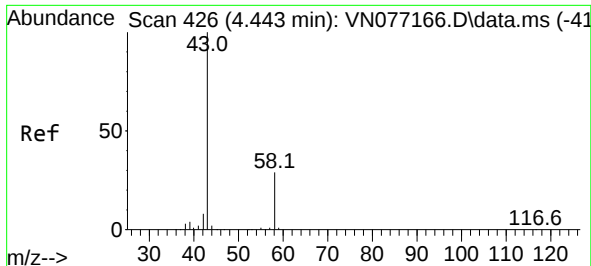
Tgt Ion:128 Resp: 39634
Ion Ratio Lower Upper
128 100
49 185.9 0.0 461.8
130 129.2 0.0 295.3



#3
Chloromethane
Concen: 0.490 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.006 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 50 Resp: 2036
Ion Ratio Lower Upper
50 100
52 19.1 25.3 37.9#

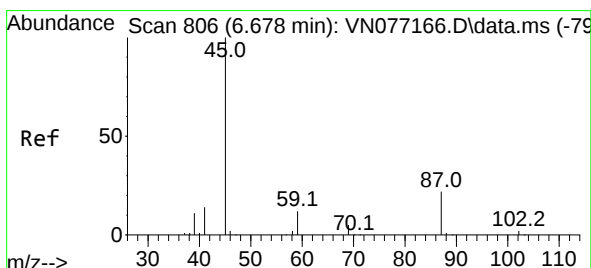
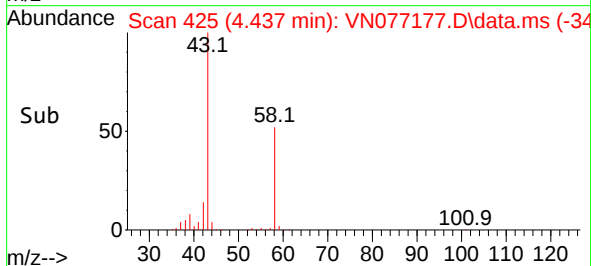
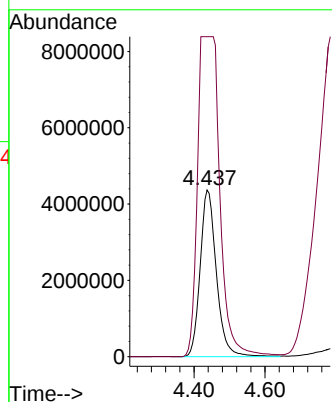
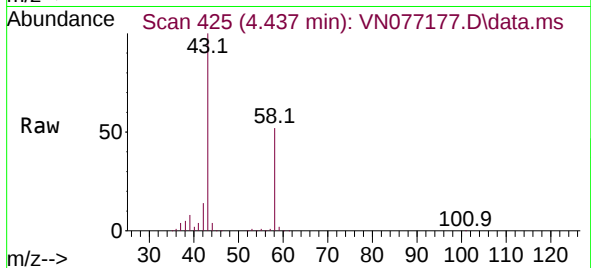




#15
Acetone
Concen: 19705.053 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

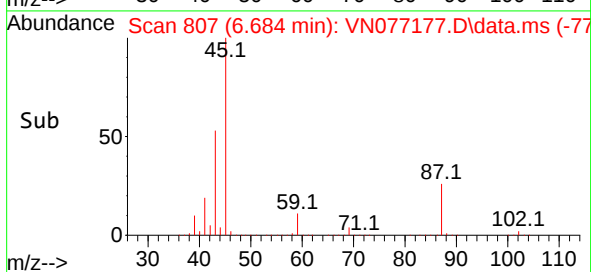
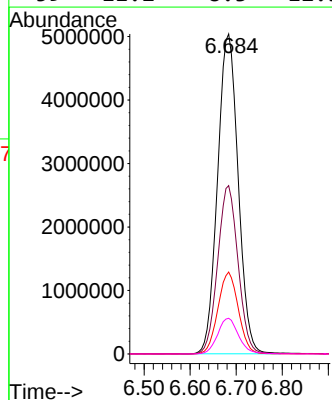
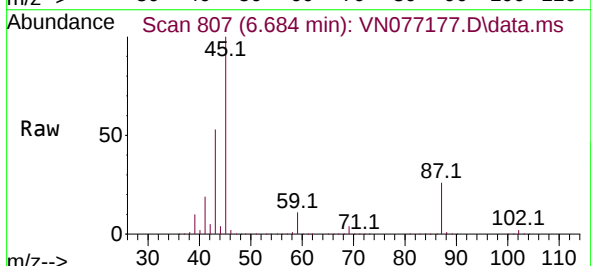
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

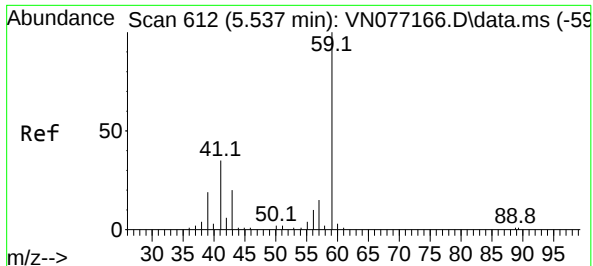
Tgt Ion: 58 Resp:13899210
Ion Ratio Lower Upper
58 100
43 192.0 255.4 383.0#



#20
Diisopropyl ether
Concen: 950.736 ug/l
RT: 6.684 min Scan# 807
Delta R.T. 0.006 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 45 Resp:15621999
Ion Ratio Lower Upper
45 100
43 52.6 38.6 58.0
87 25.6 20.1 30.1
59 11.2 8.3 12.5

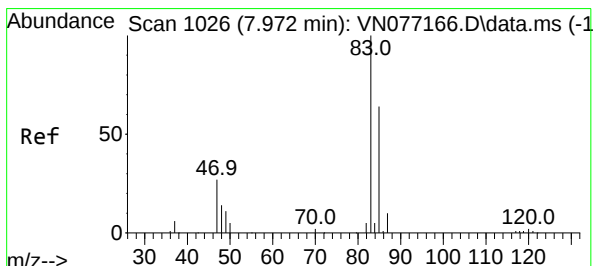
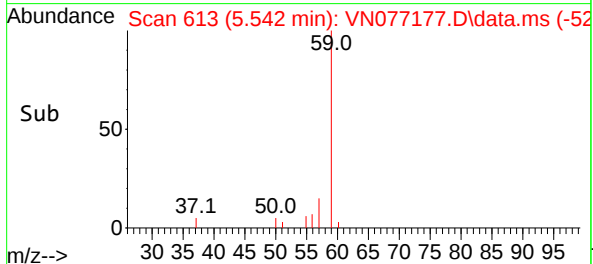
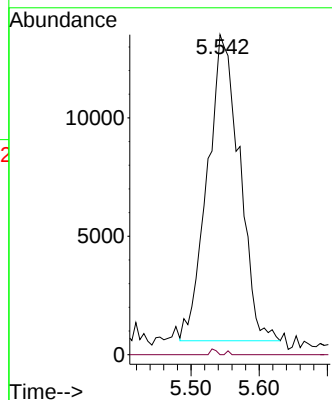
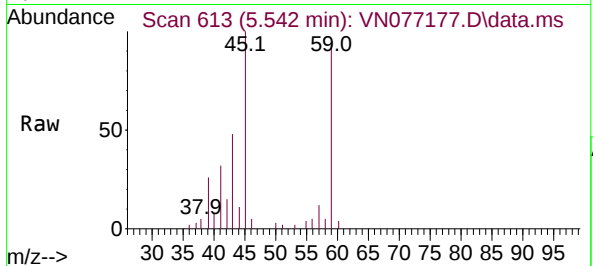




#23
tert-Butyl Alcohol
Concen: 46.402 ug/l
RT: 5.542 min Scan# 612
Delta R.T. 0.005 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

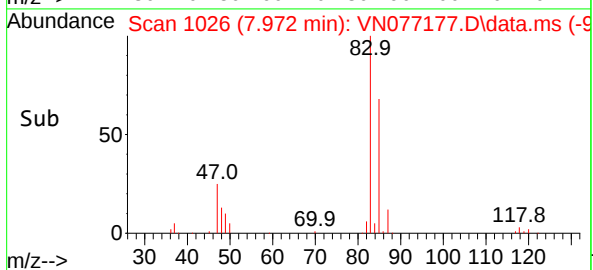
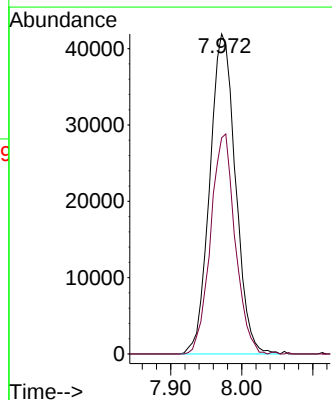
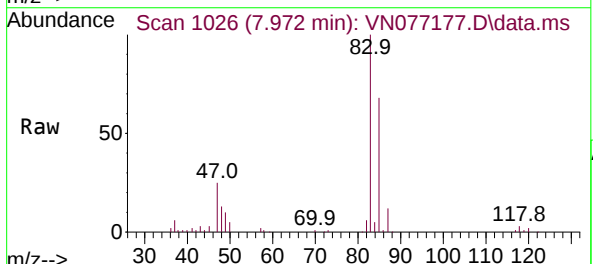
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

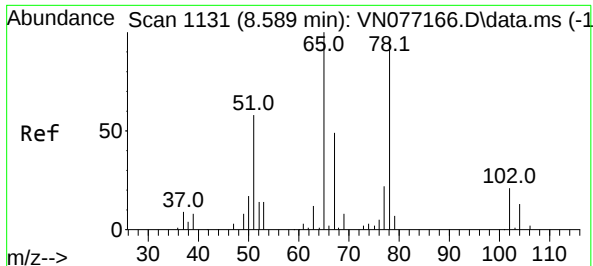
Tgt Ion: 59 Resp: 42488
Ion Ratio Lower Upper
59 100
52 0.3 0.2 0.2#



#25
Chloroform
Concen: 11.643 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 83 Resp: 105388
Ion Ratio Lower Upper
83 100
85 67.5 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 31.934 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

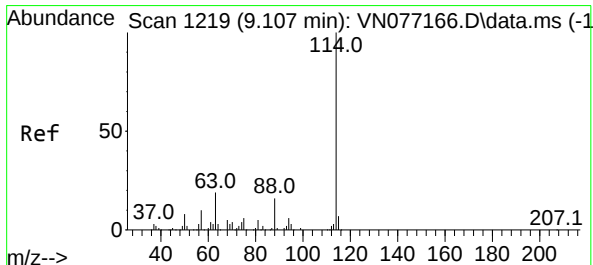
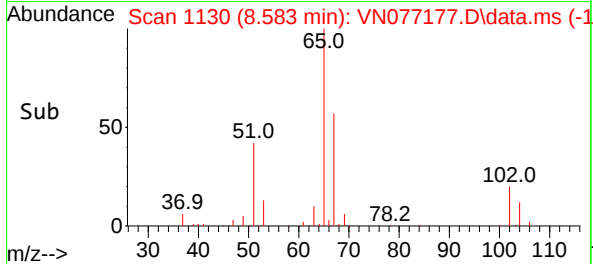
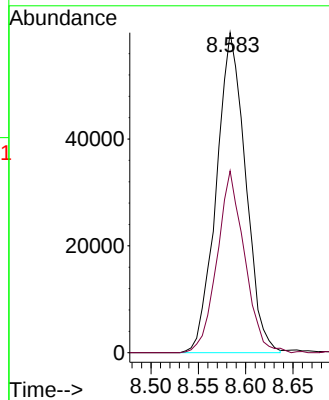
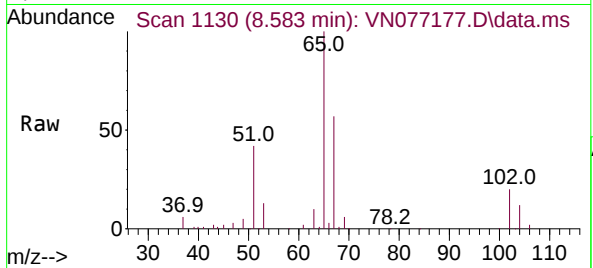
EFF-WASTE-WATER

Tgt Ion: 65 Resp: 128537

Ion Ratio Lower Upper

65 100

67 53.3 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

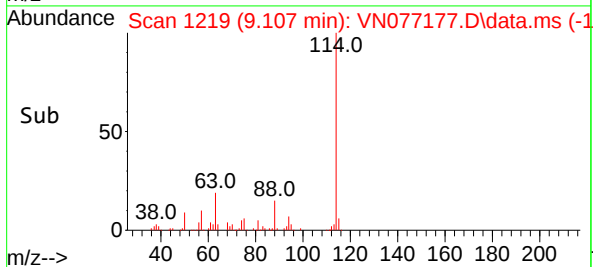
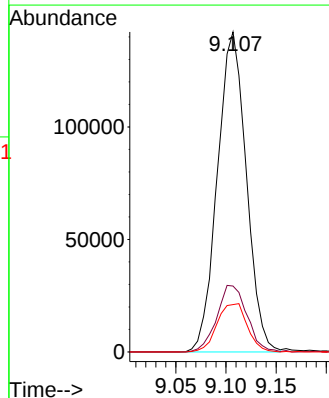
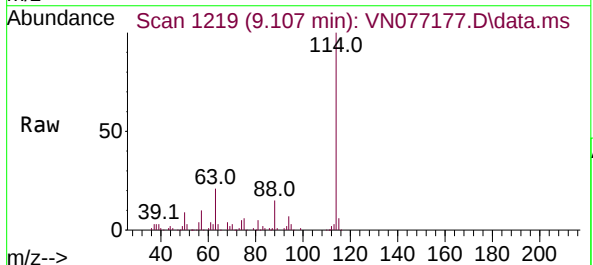
Tgt Ion: 114 Resp: 285175

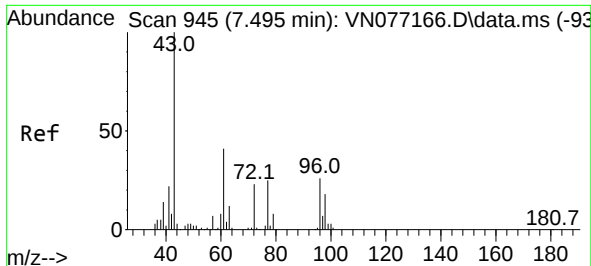
Ion Ratio Lower Upper

114 100

63 21.7 17.0 25.4

88 15.8 11.6 17.4

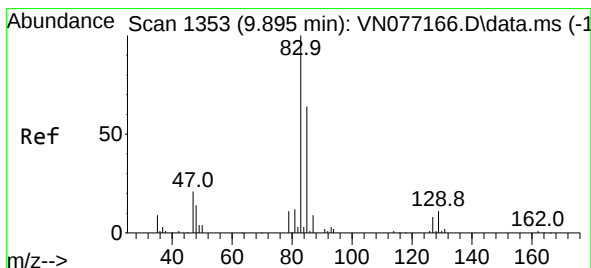
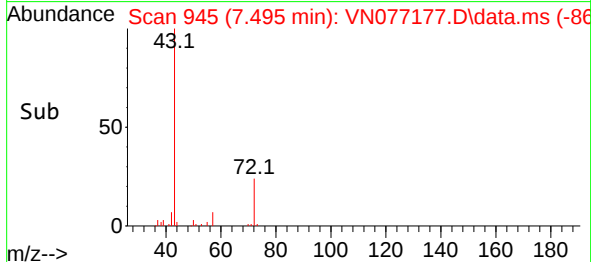
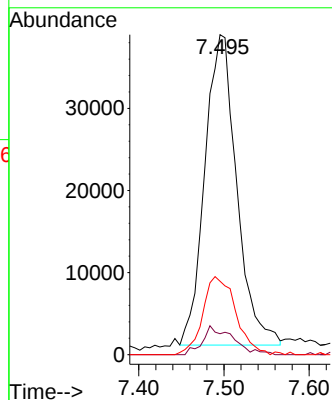
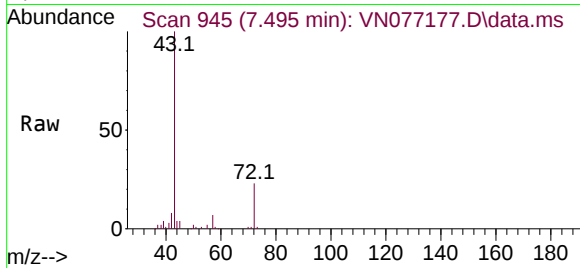




#30
2-Butanone
Concen: 24.665 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

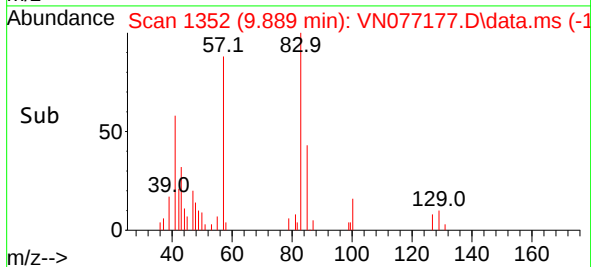
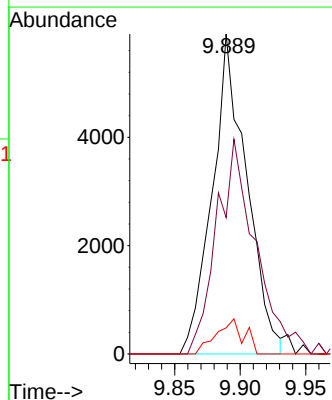
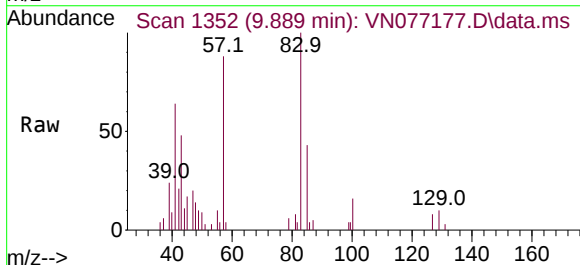
Instrument :
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EFF-WASTE-WATER

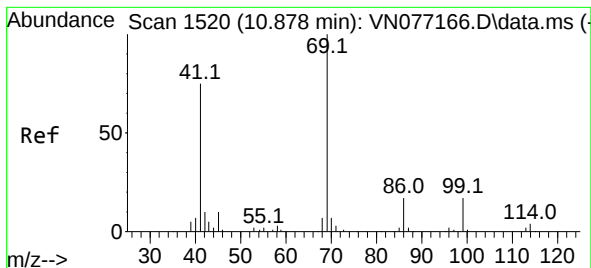
Tgt Ion: 43 Resp: 98435
Ion Ratio Lower Upper
43 100
57 3.0 6.1 9.1#
72 25.9 20.2 30.4



#41
Bromodichloromethane
Concen: 1.453 ug/l
RT: 9.889 min Scan# 1352
Delta R.T. -0.006 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 83 Resp: 10743
Ion Ratio Lower Upper
83 100
85 42.7 51.0 76.4#
127 8.2 6.2 9.2





#51

Ethyl methacrylate

Concen: 5.761 ug/l

RT: 10.801 min Scan# 1507

Delta R.T. -0.077 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

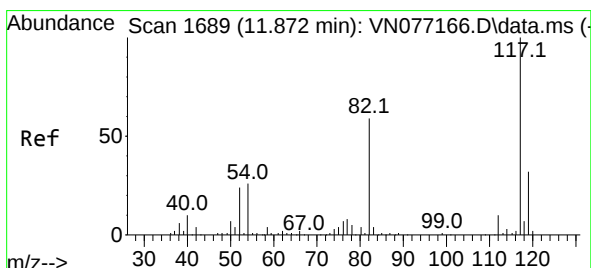
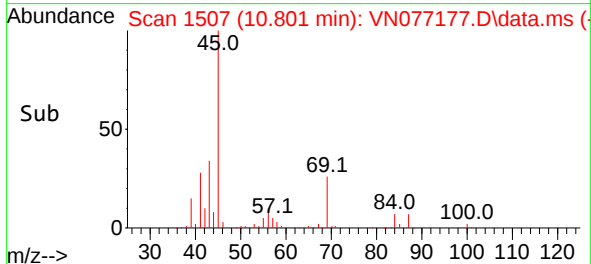
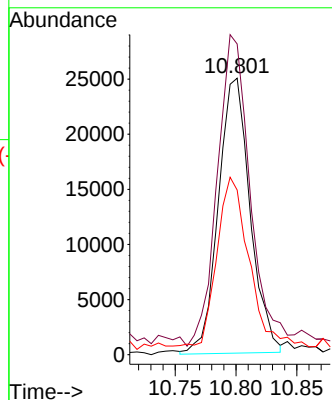
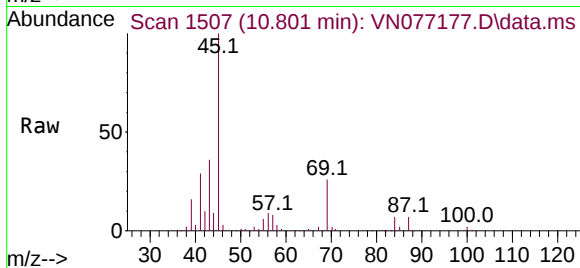
Tgt Ion: 69 Resp: 45327

Ion Ratio Lower Upper

69 100

41 107.2 36.3 108.7

39 56.9 19.9 59.7



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.866 min Scan# 1688

Delta R.T. -0.006 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

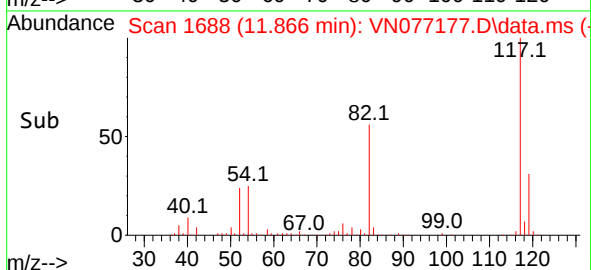
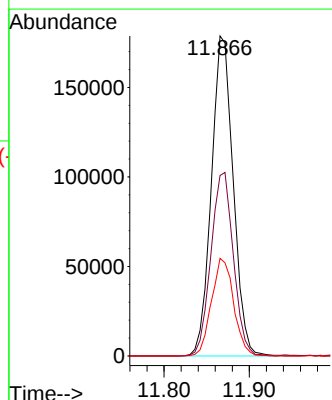
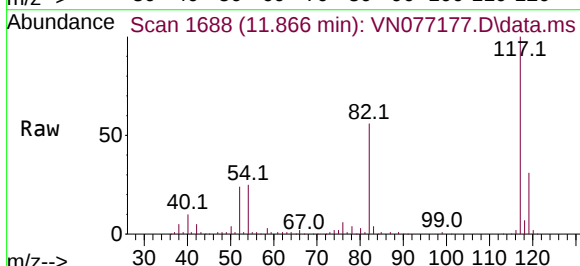
Tgt Ion: 117 Resp: 318055

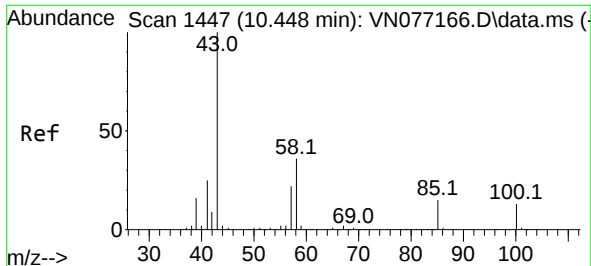
Ion Ratio Lower Upper

117 100

82 59.0 45.4 68.0

119 30.9 26.8 40.2



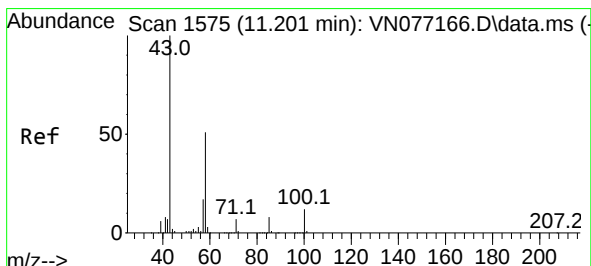
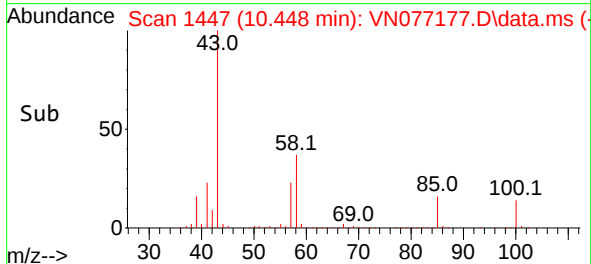
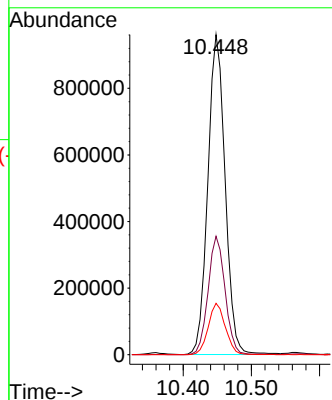
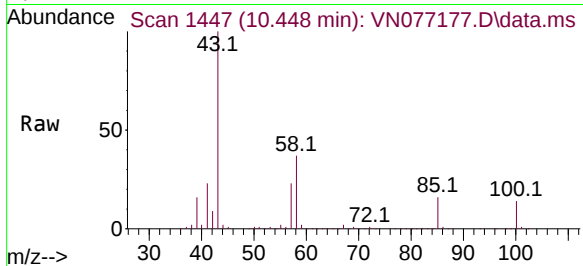


#58
4-Methyl-2-Pentanone
Concen: 207.021 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

Tgt Ion: 43 Resp: 1699381

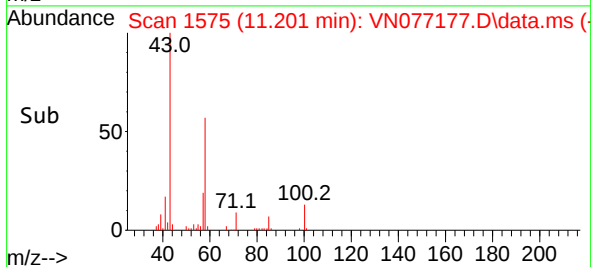
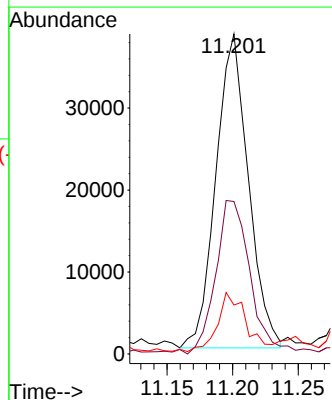
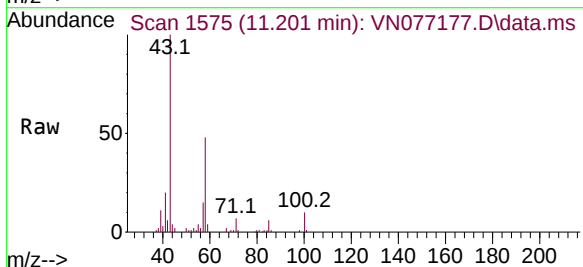
Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	42.8
85	15.9	11.8	17.8

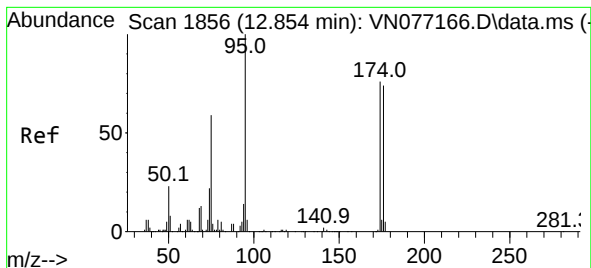


#59
2-Hexanone
Concen: 11.018 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. -0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 43 Resp: 65946

Ion	Ratio	Lower	Upper
43	100		
58	51.7	40.6	60.8
57	17.5	13.1	19.7

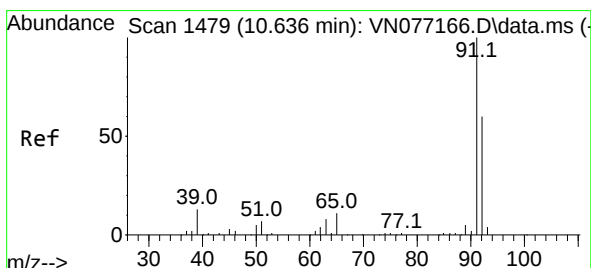
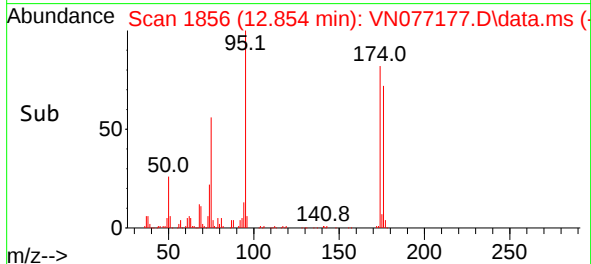
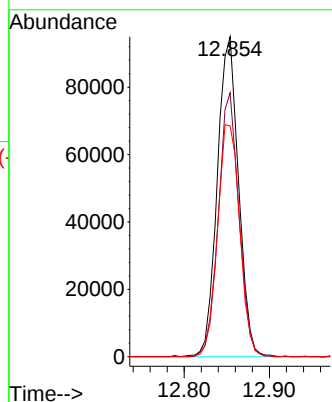
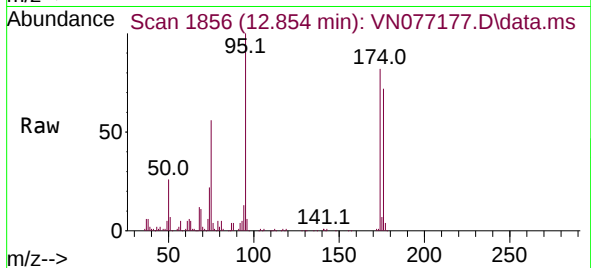




#60
4-Bromofluorobenzene
Concen: 28.774 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

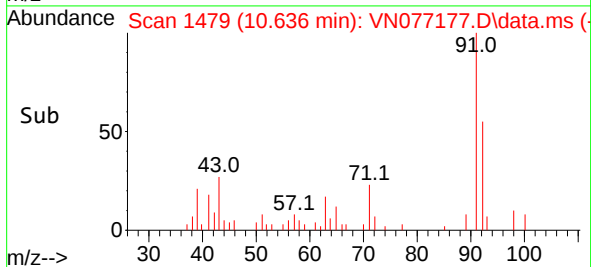
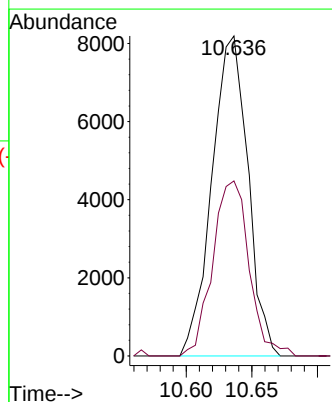
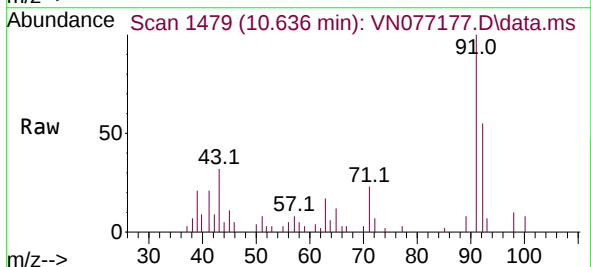
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

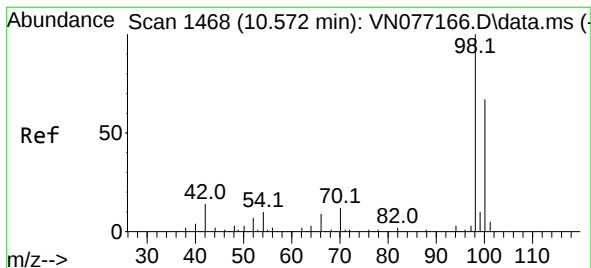
Tgt Ion: 95 Resp: 164410
Ion Ratio Lower Upper
95 100
174 79.3 64.2 96.4
176 75.9 61.4 92.0



#62
Toluene
Concen: 0.699 ug/l
RT: 10.636 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VN077177.D
Acq: 24 Mar 2023 13:12

Tgt Ion: 91 Resp: 15628
Ion Ratio Lower Upper
91 100
92 55.5 46.3 69.5





#63

Toluene-d8

Concen: 30.038 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

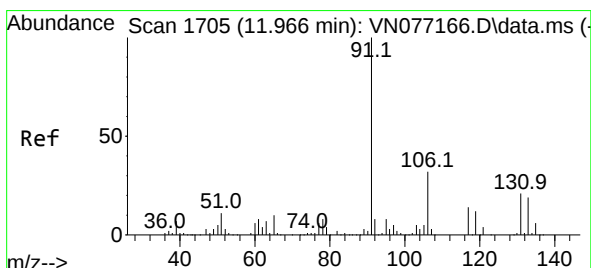
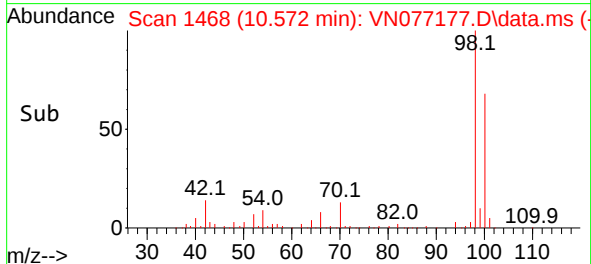
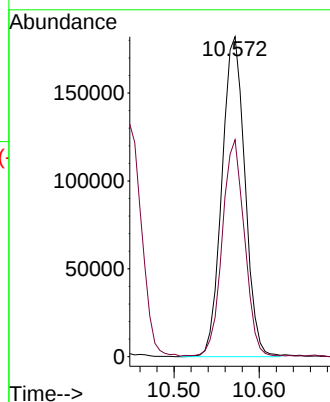
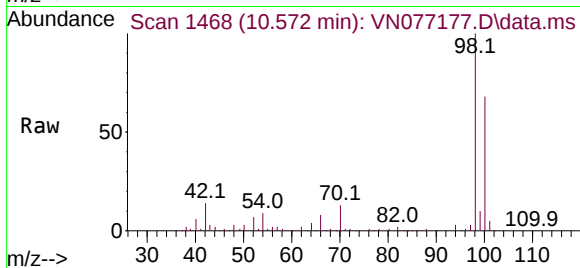
EFF-WASTE-WATER

Tgt Ion: 98 Resp: 341033

Ion Ratio Lower Upper

98 100

100 65.2 53.8 80.6



#66

Ethyl Benzene

Concen: 0.220 ug/l

RT: 11.966 min Scan# 1705

Delta R.T. -0.000 min

Lab File: VN077177.D

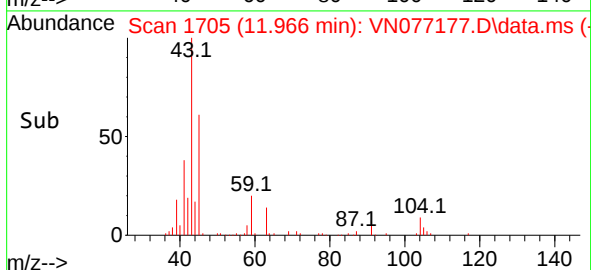
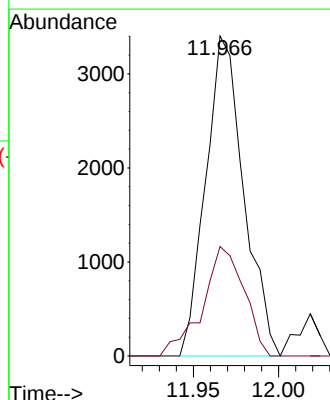
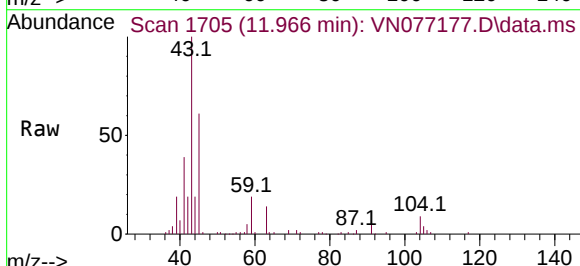
Acq: 24 Mar 2023 13:12

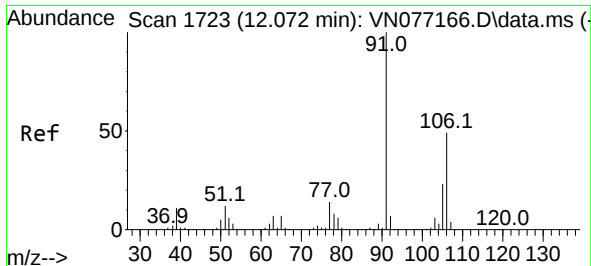
Tgt Ion: 91 Resp: 5288

Ion Ratio Lower Upper

91 100

106 34.2 23.8 35.8





#67

m/p-Xylenes

Concen: 0.382 ug/l

RT: 12.071 min Scan# 1723

Delta R.T. -0.001 min

Lab File: VN077177.D

Acq: 24 Mar 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

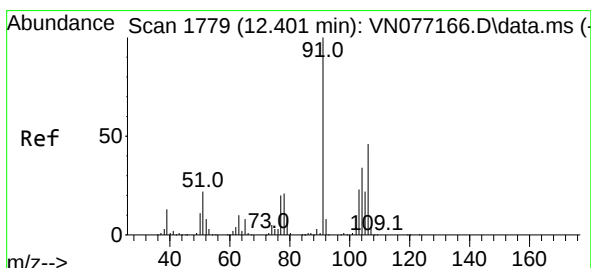
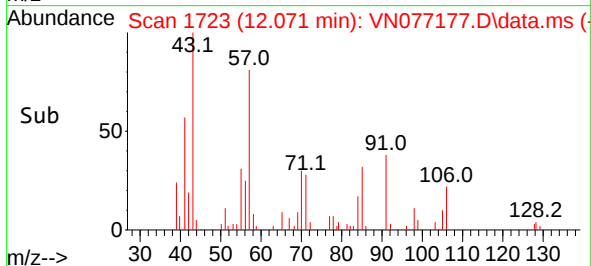
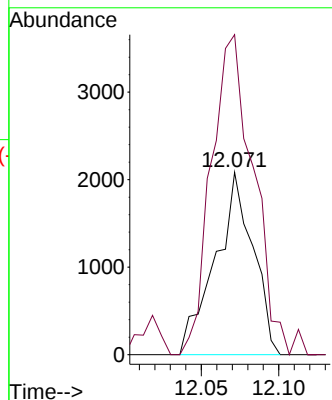
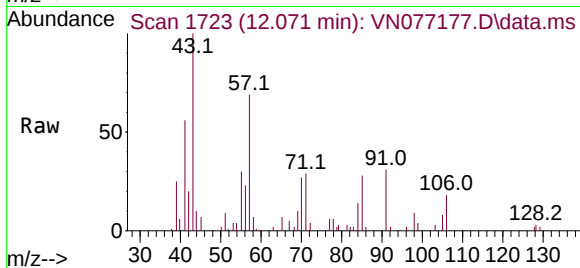
EFF-WASTE-WATER

Tgt Ion:106 Resp: 3533

Ion Ratio Lower Upper

106 100

91 194.6 157.4 236.2



#68

o-Xylene

Concen: 0.763 ug/l

RT: 12.401 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VN077177.D

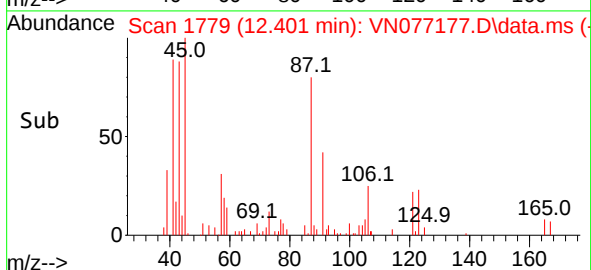
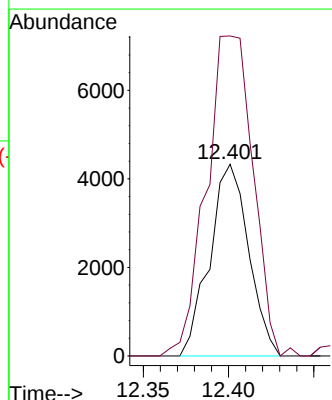
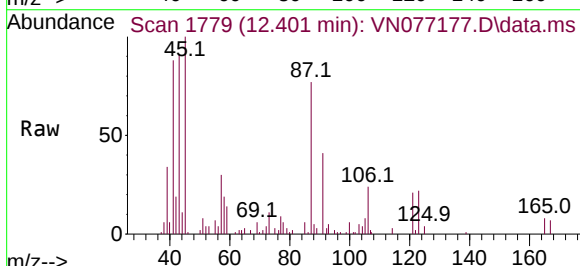
Acq: 24 Mar 2023 13:12

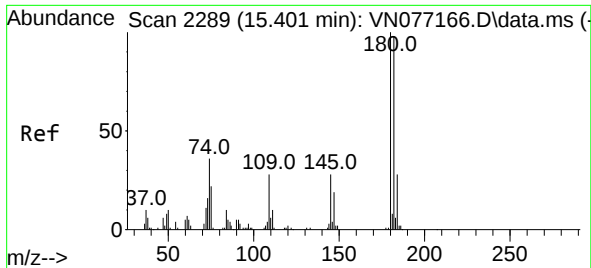
Tgt Ion:106 Resp: 6908

Ion Ratio Lower Upper

106 100

91 199.1 107.2 321.6





#89

1,2,4-Trichlorobenzene

Concen: 0.300 ug/l

RT: 15.395 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN077177.D

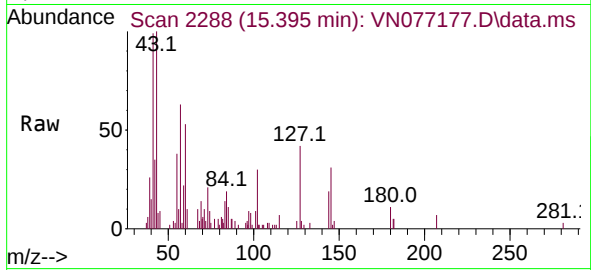
Acq: 24 Mar 2023 13:12

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER



Tgt Ion:180 Resp: 1300

Ion Ratio Lower Upper

180 100

182 58.2 76.6 115.0#

145 14.8 24.6 36.8#

