

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045294.D
 Acq On : 14 Mar 2025 16:18
 Operator : JC/MD
 Sample : Q1583-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WASTE WATER

Quant Time: Mar 15 04:00:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

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

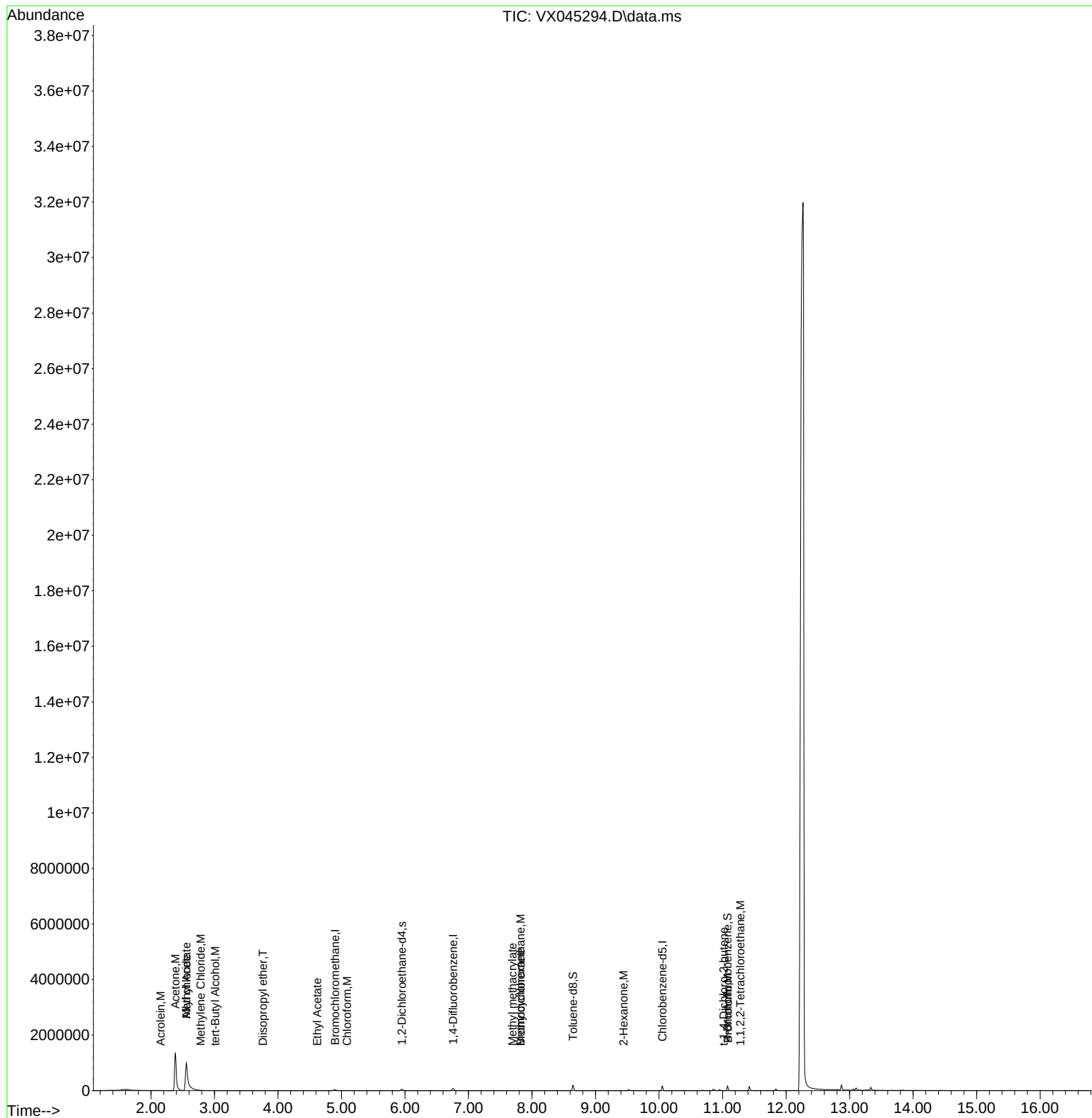
Internal Standards						
1) Bromochloromethane	4.897	128	15046	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	76674	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	71736	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46762	31.999	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.667%	
60) 4-Bromofluorobenzene	11.079	95	42574	31.752	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 105.833%	
63) Toluene-d8	8.647	98	114825	28.934	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.433%	
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.556	43	423386	318.995	ug/l #	53
13) Acrolein	2.154	56	232	0.872	ug/l	97
15) Acetone	2.386	58	494595	2781.700	ug/l	90
17) Allyl chloride	2.556	41	155069	72.538	ug/l #	64
18) Methylene Chloride	2.782	84	363	0.282	ug/l #	74
20) Diisopropyl ether	3.763	45	1950	0.475	ug/l #	68
23) tert-Butyl Alcohol	3.014	59	185	0.817	ug/l #	100
25) Chloroform	5.086	83	5773	2.616	ug/l	98
38) Methylcyclohexane	7.818	83	729	0.385	ug/l #	18
41) Bromodichloromethane	7.818	83	729	0.465	ug/l #	81
43) Ethyl Acetate	4.617	43	746	0.488	ug/l	93
46) Methyl methacrylate	7.690	41	384	0.311	ug/l #	14
56) Bromoform	11.085	173	314	0.440	ug/l #	1
59) 2-Hexanone	9.439	43	3983	3.377	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.280	83	1922	1.191	ug/l #	25
77) t-1,4-Dichloro-2-butene	11.018	75	93	0.208	ug/l #	37

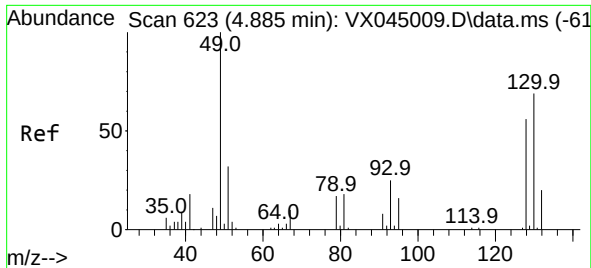
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 15 04:00:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

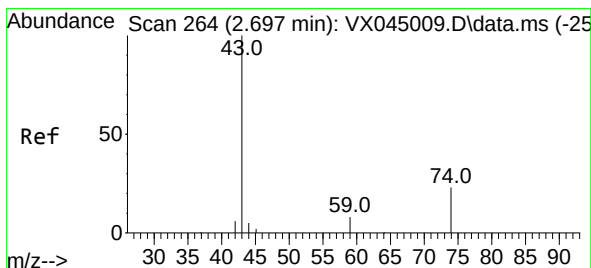
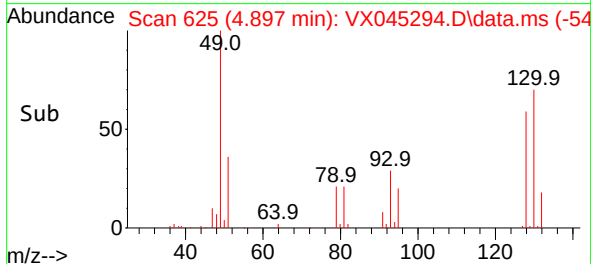
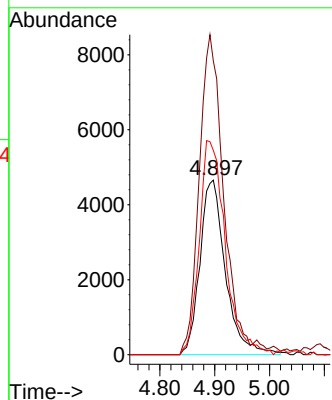
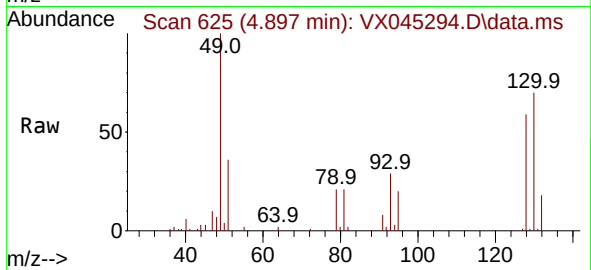




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. 0.012 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

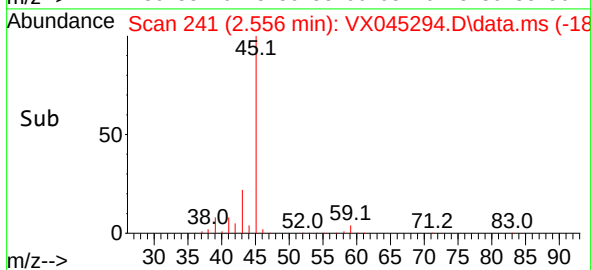
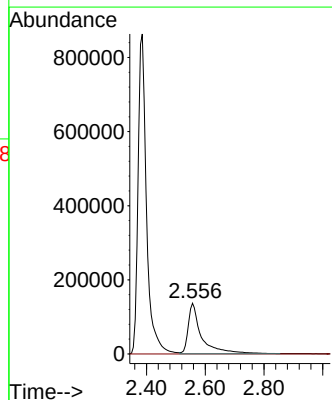
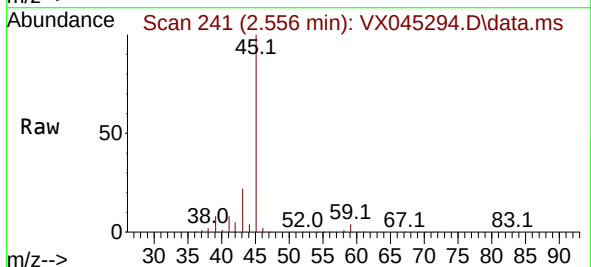
Instrument :
MSVOA_X
ClientSampleId :
EFF-WASTE WATER

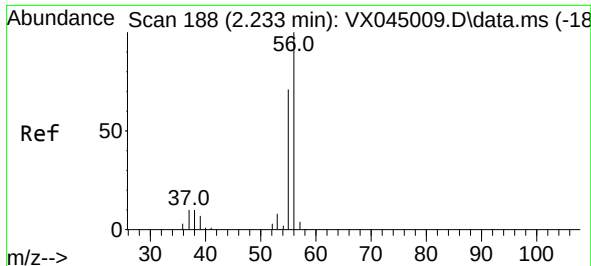
Tgt Ion:128 Resp: 15046
Ion Ratio Lower Upper
128 100
49 172.9 0.0 449.7
130 124.9 0.0 312.7



#12
Methyl Acetate
Concen: 318.995 ug/l
RT: 2.556 min Scan# 241
Delta R.T. -0.140 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 43 Resp: 423386
Ion Ratio Lower Upper
43 100
74 0.0 17.9 26.9#





#13

Acrolein

Concen: 0.872 ug/l

RT: 2.154 min Scan# 11

Delta R.T. -0.079 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

Instrument :

MSVOA_X

ClientSampleId :

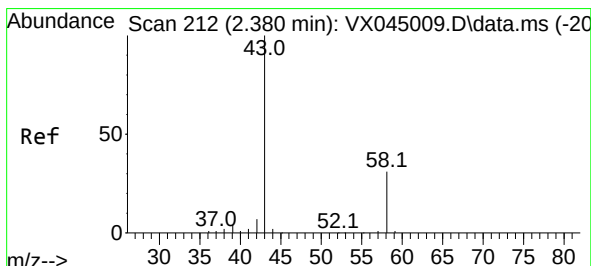
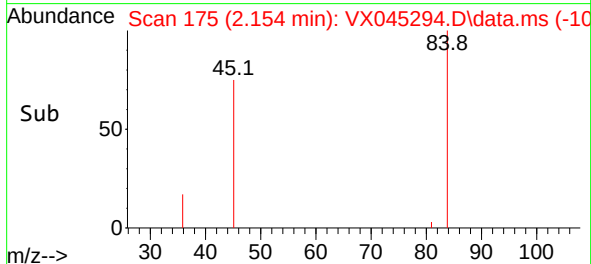
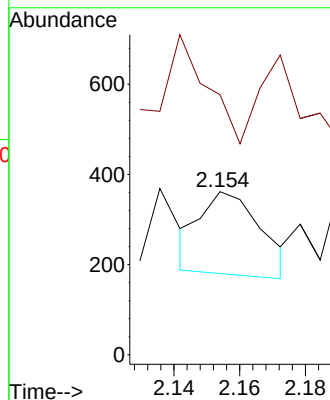
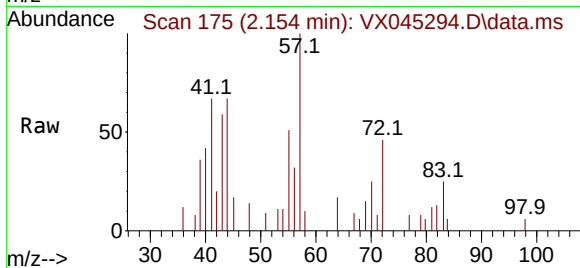
EFF-WASTE WATER

Tgt Ion: 56 Resp: 232

Ion Ratio Lower Upper

56 100

55 72.0 55.4 83.2



#15

Acetone

Concen: 2781.700 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX045294.D

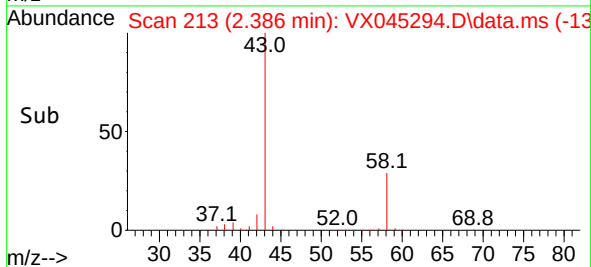
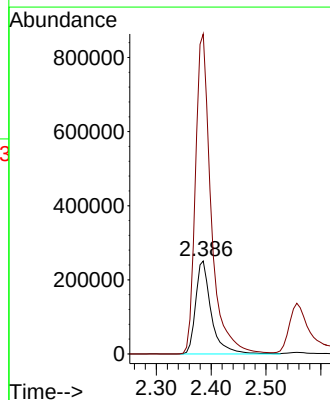
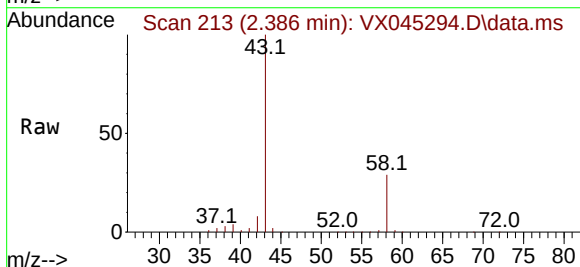
Acq: 14 Mar 2025 16:18

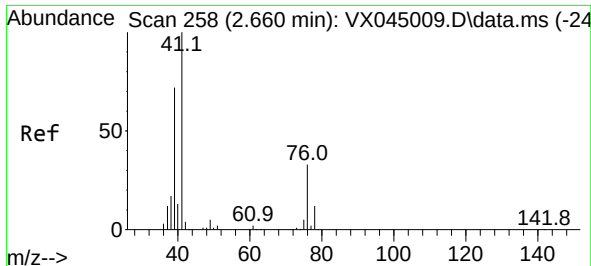
Tgt Ion: 58 Resp: 494595

Ion Ratio Lower Upper

58 100

43 344.2 258.6 388.0





#17

Allyl chloride

Concen: 72.538 ug/l

RT: 2.556 min Scan# 241

Delta R.T. -0.104 min

Lab File: VX045294.D

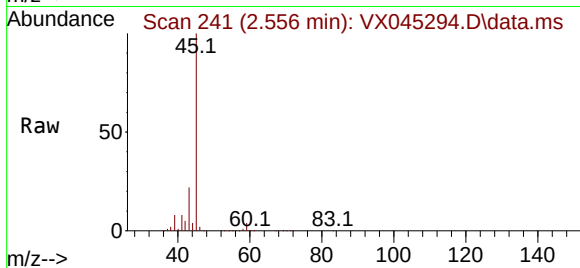
Acq: 14 Mar 2025 16:18

Instrument :

MSVOA_X

ClientSampleId :

EFF-WASTE WATER



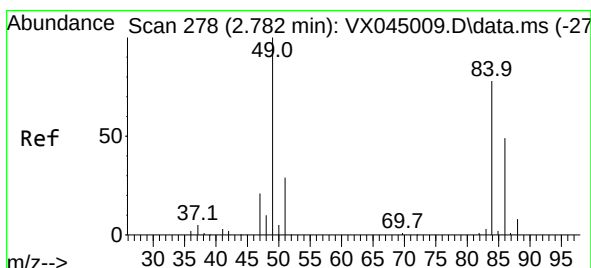
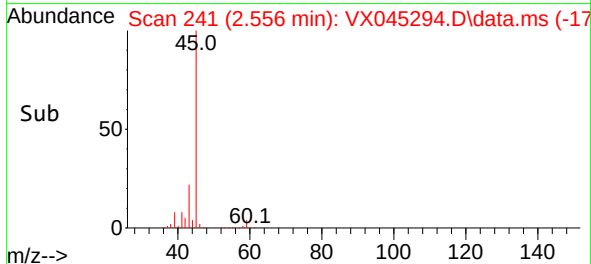
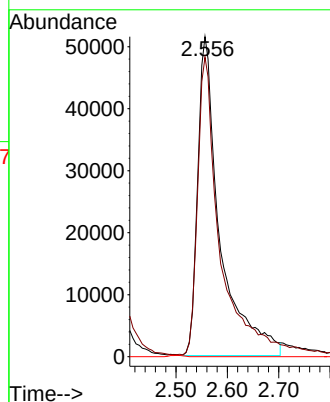
Tgt Ion: 41 Resp: 155069

Ion Ratio Lower Upper

41 100

39 93.1 36.2 108.6

76 0.0 17.2 51.5#



#18

Methylene Chloride

Concen: 0.282 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.000 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

Tgt Ion: 84 Resp: 363

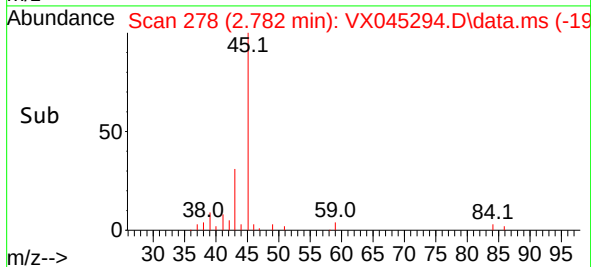
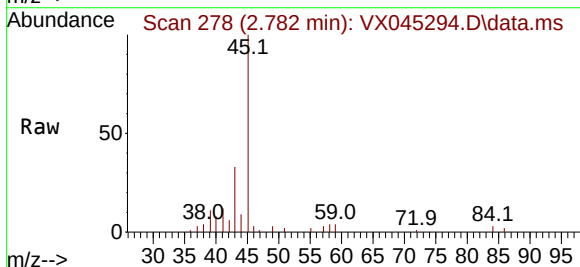
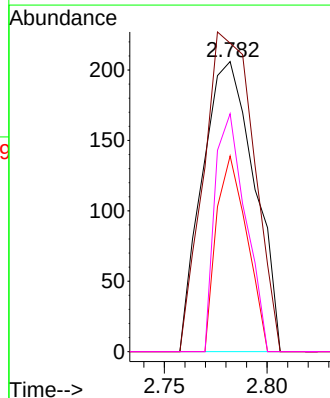
Ion Ratio Lower Upper

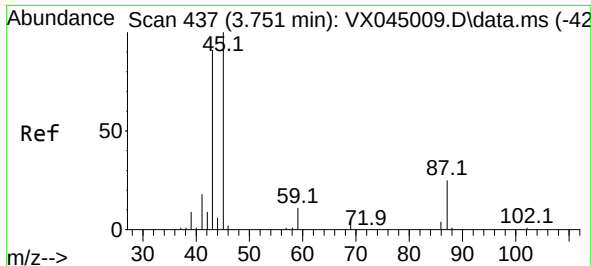
84 100

49 106.3 102.8 154.2

51 67.5 30.1 45.1#

86 82.0 50.2 75.4#





#20

Diisopropyl ether

Concen: 0.475 ug/l

RT: 3.763 min Scan# 41

Delta R.T. 0.012 min

Lab File: VX045294.D

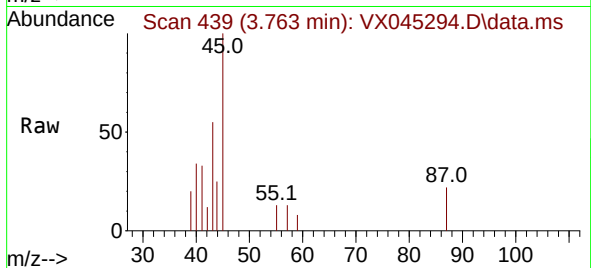
Acq: 14 Mar 2025 16:18

Instrument :

MSVOA_X

ClientSampleId :

EFF-WASTE WATER



Tgt Ion: 45 Resp: 1950

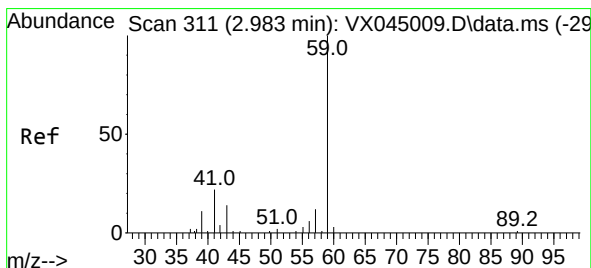
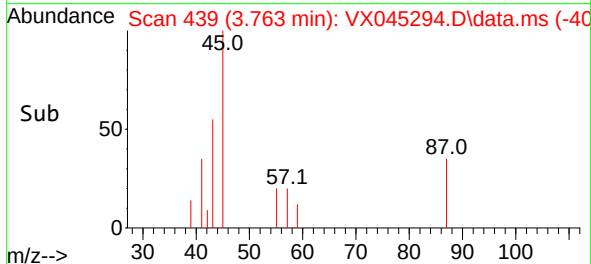
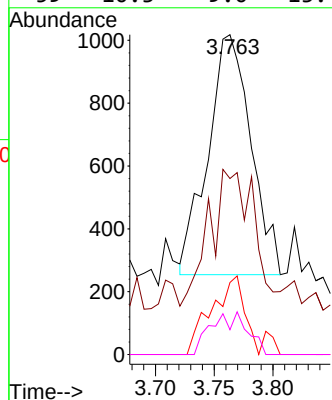
Ion Ratio Lower Upper

45 100

43 53.1 74.4 111.6#

87 30.0 19.8 29.8#

59 10.3 9.0 13.4



#23

tert-Butyl Alcohol

Concen: 0.817 ug/l

RT: 3.014 min Scan# 316

Delta R.T. 0.030 min

Lab File: VX045294.D

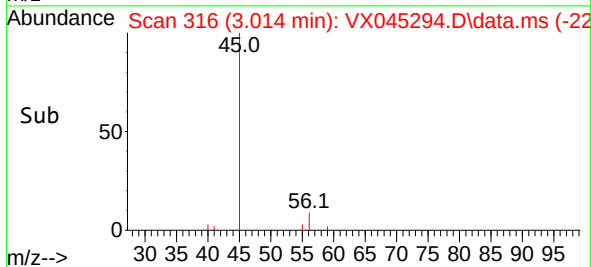
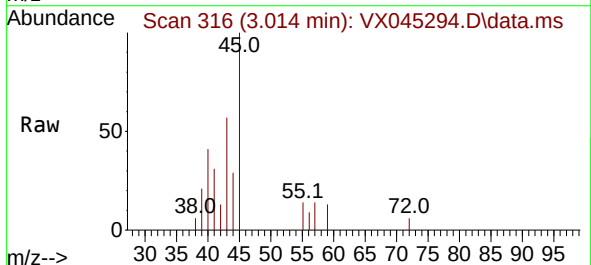
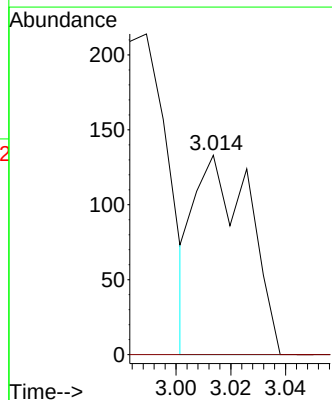
Acq: 14 Mar 2025 16:18

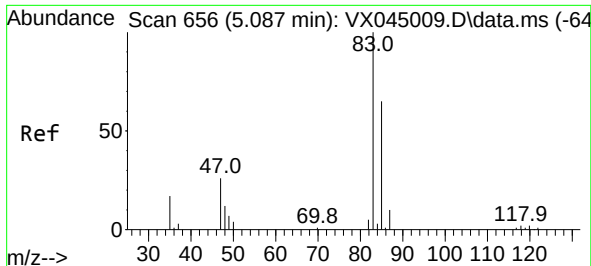
Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

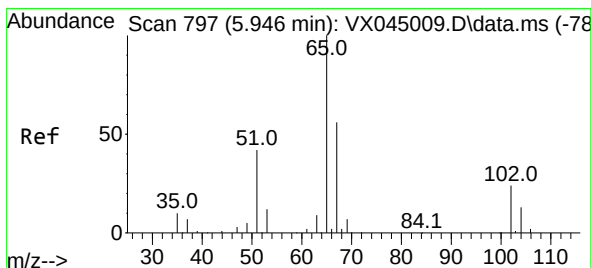
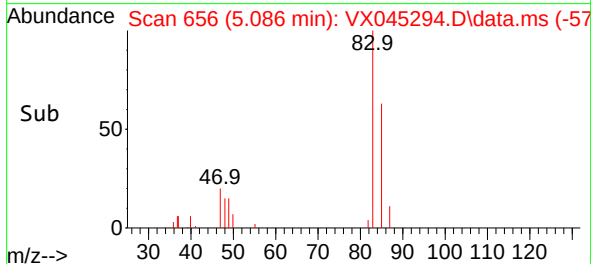
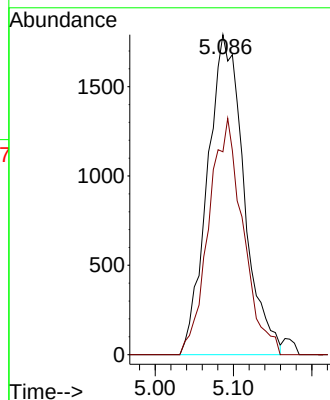
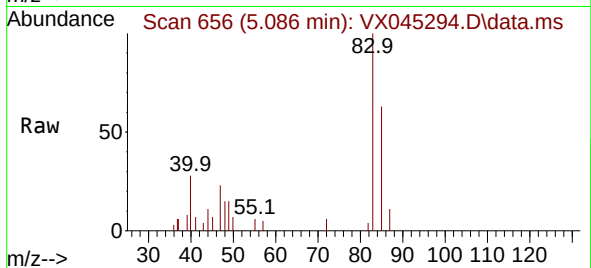




#25
Chloroform
Concen: 2.616 ug/l
RT: 5.086 min Scan# 611
Delta R.T. -0.000 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

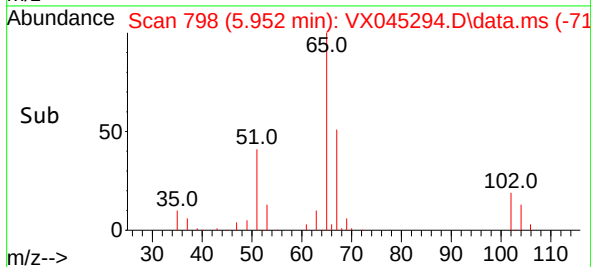
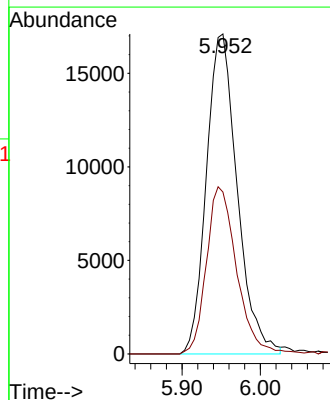
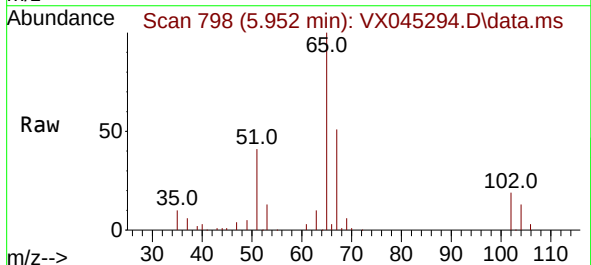
Instrument :
MSVOA_X
ClientSampleId :
EFF-WASTE WATER

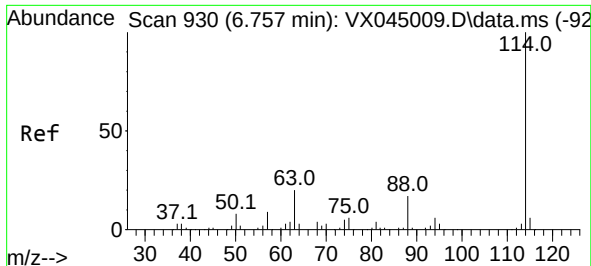
Tgt Ion: 83 Resp: 5773
Ion Ratio Lower Upper
83 100
85 63.4 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: 31.999 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 65 Resp: 46762
Ion Ratio Lower Upper
65 100
67 51.3 42.6 64.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

Instrument :

MSVOA_X

ClientSampleId :

EFF-WASTE WATER

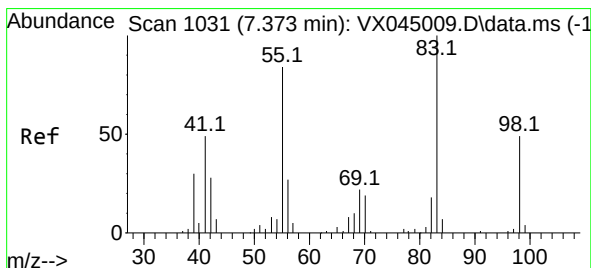
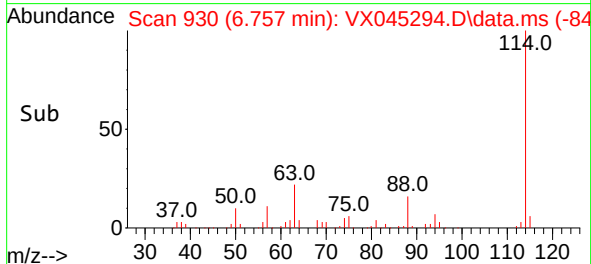
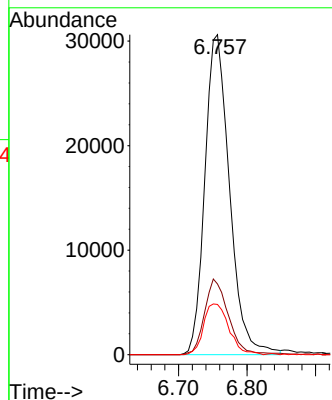
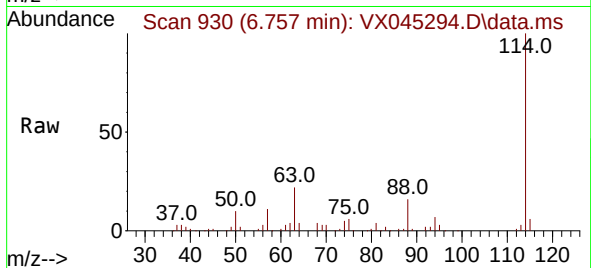
Tgt Ion:114 Resp: 76674

Ion Ratio Lower Upper

114 100

63 22.7 16.8 25.2

88 16.3 12.7 19.1



#38

Methylcyclohexane

Concen: 0.385 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.445 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

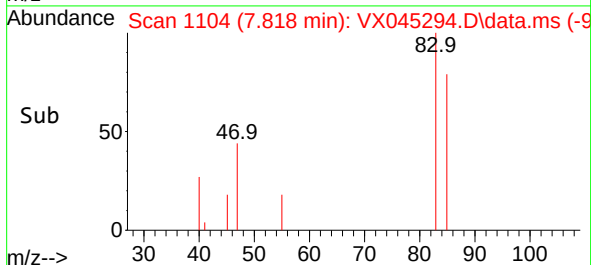
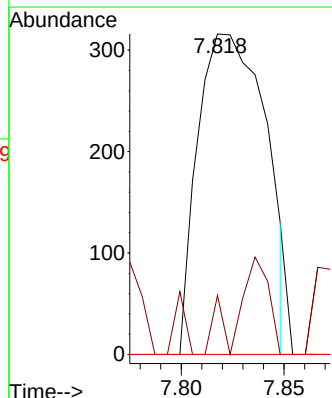
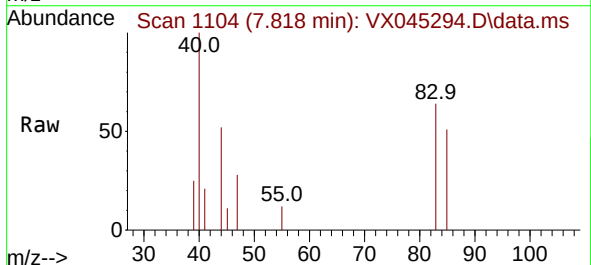
Tgt Ion: 83 Resp: 729

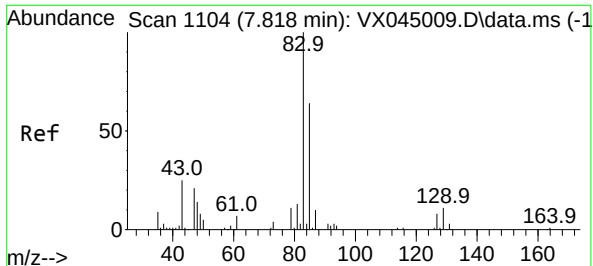
Ion Ratio Lower Upper

83 100

55 2.9 40.6 122.0#

98 0.0 24.9 74.6#

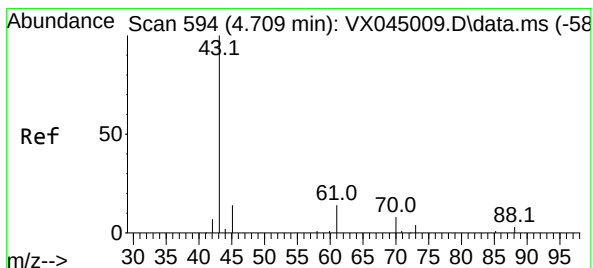
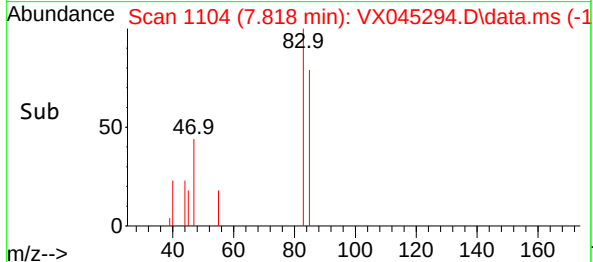
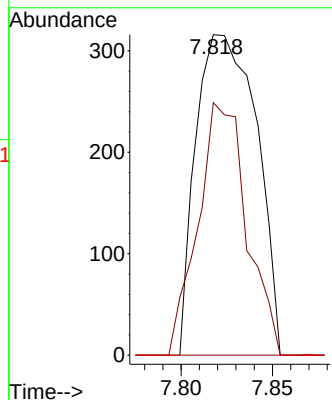
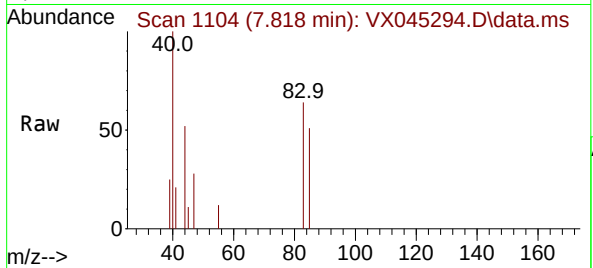




#41
Bromodichloromethane
Concen: 0.465 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

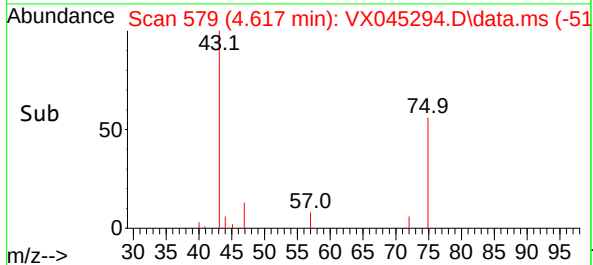
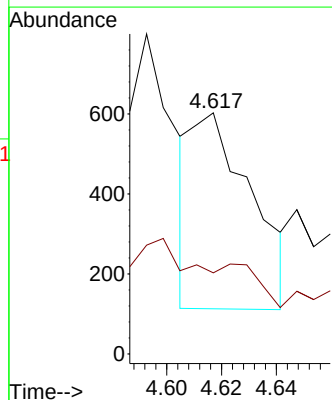
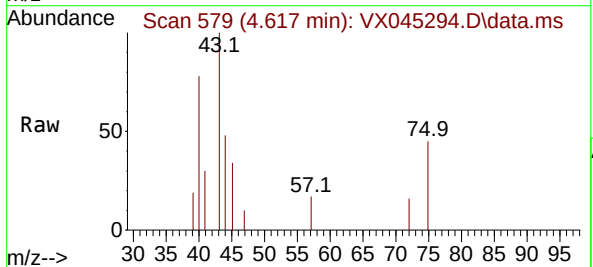
Instrument : MSVOA_X
ClientSampleId : EFF-WASTE WATER

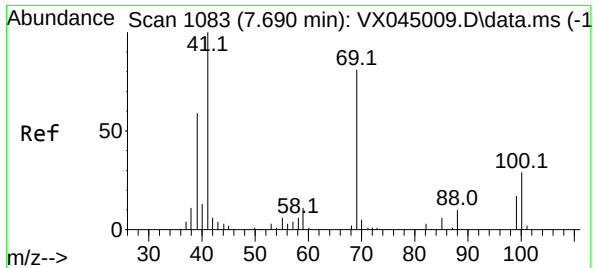
Tgt Ion: 83 Resp: 729
Ion Ratio Lower Upper
83 100
85 78.8 51.0 76.6#
127 0.0 6.1 9.1#



#43
Ethyl Acetate
Concen: 0.488 ug/l
RT: 4.617 min Scan# 579
Delta R.T. -0.092 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 43 Resp: 746
Ion Ratio Lower Upper
43 100
45 13.1 12.7 19.1

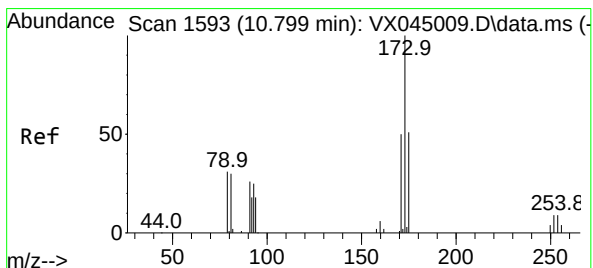
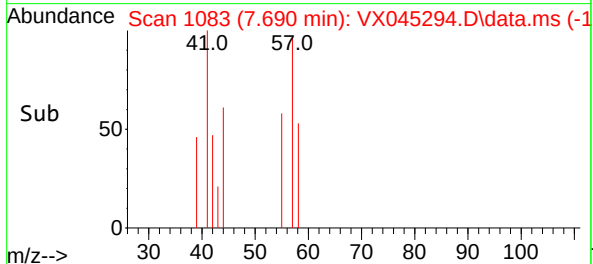
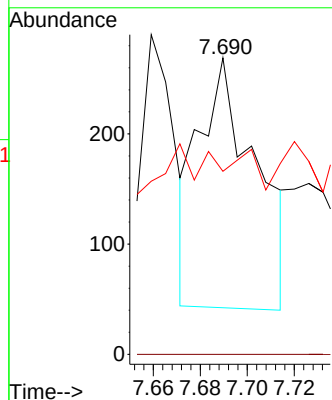
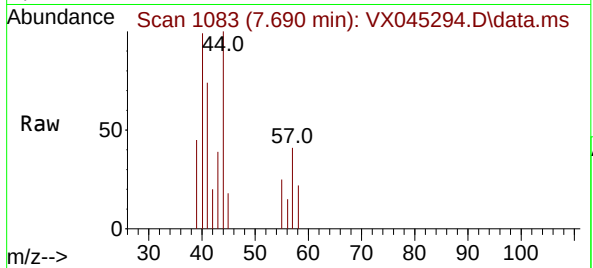




#46
Methyl methacrylate
Concen: 0.311 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

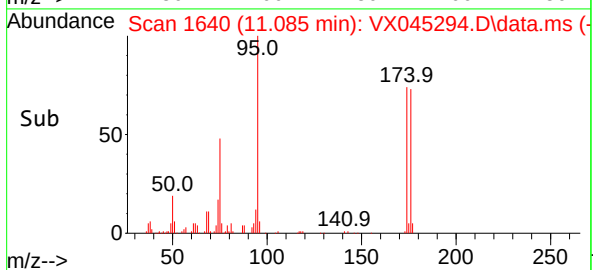
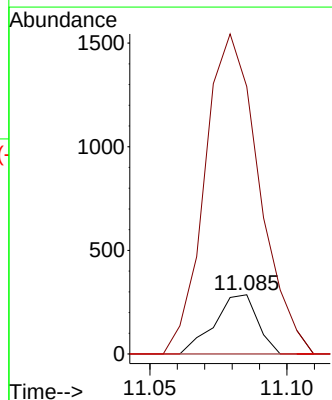
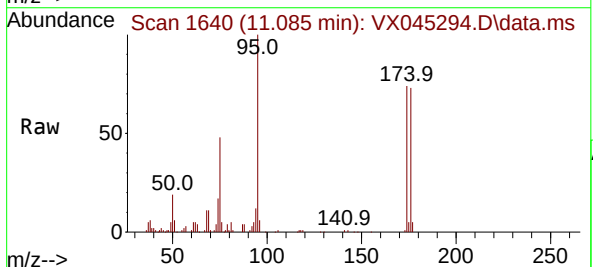
Instrument :
MSVOA_X
ClientSampleId :
EFF-WASTE WATER

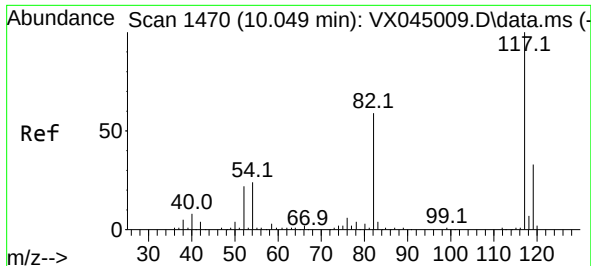
Tgt Ion: 41 Resp: 384
Ion Ratio Lower Upper
41 100
69 0.0 40.7 122.1#
39 0.0 29.5 88.5#



#56
Bromoform
Concen: 0.440 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.286 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 173 Resp: 314
Ion Ratio Lower Upper
173 100
175 678.3 39.6 59.4#
254 0.0 6.3 9.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

Instrument :

MSVOA_X

ClientSampleId :

EFF-WASTE WATER

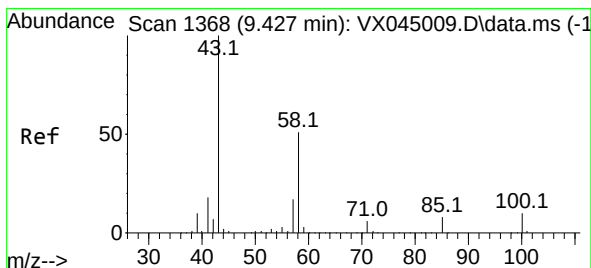
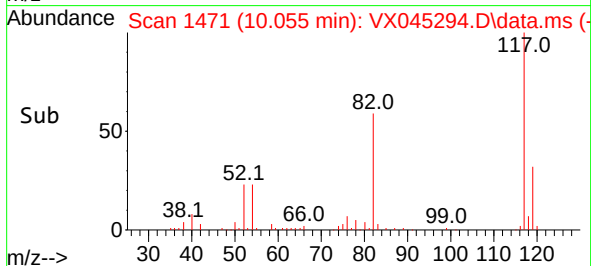
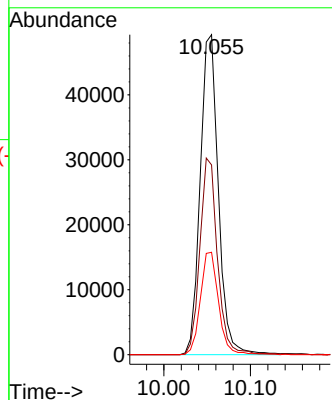
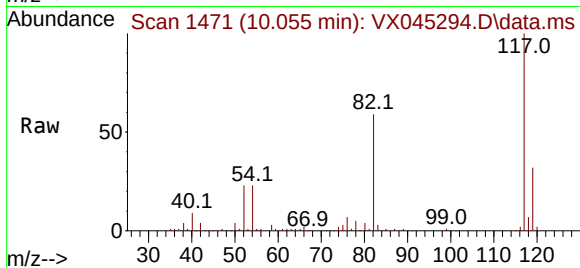
Tgt Ion:117 Resp: 71736

Ion Ratio Lower Upper

117 100

82 59.3 45.8 68.8

119 32.0 25.5 38.3



#59

2-Hexanone

Concen: 3.377 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX045294.D

Acq: 14 Mar 2025 16:18

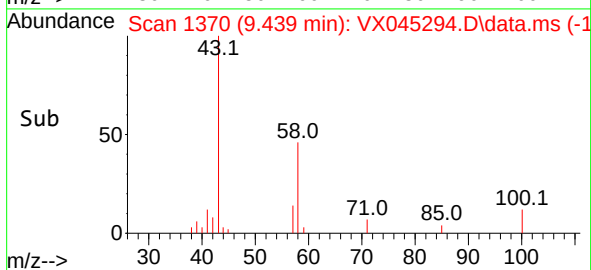
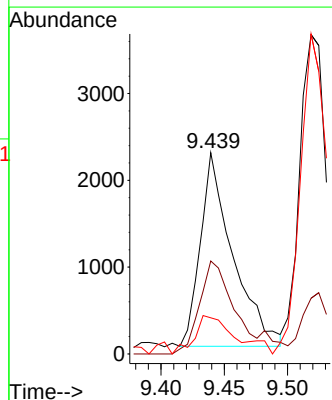
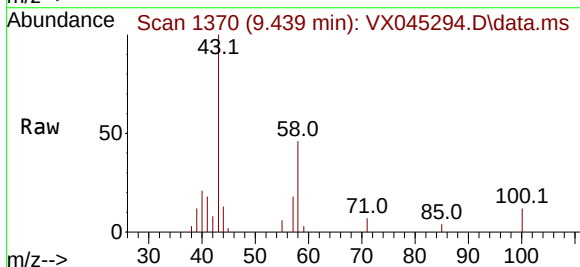
Tgt Ion: 43 Resp: 3983

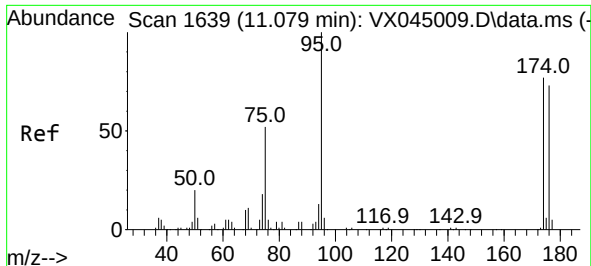
Ion Ratio Lower Upper

43 100

58 49.8 41.6 62.4

57 20.4 13.8 20.6

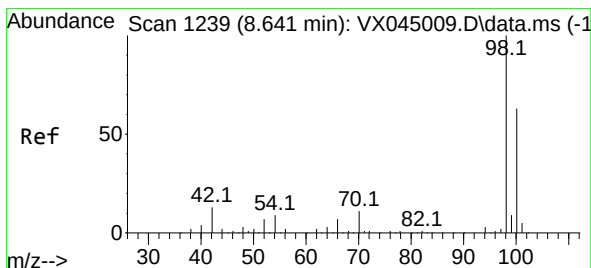
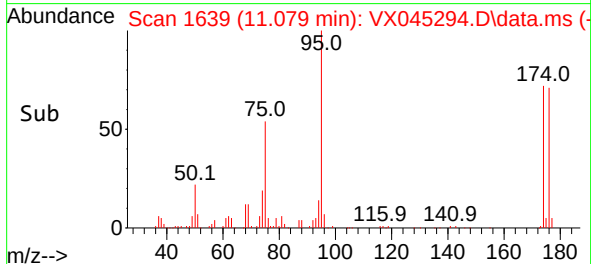
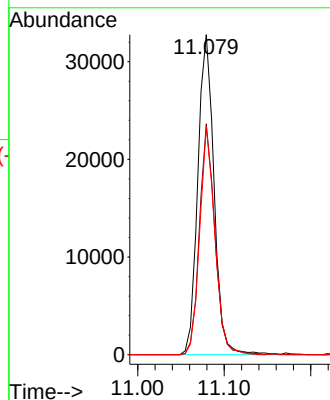
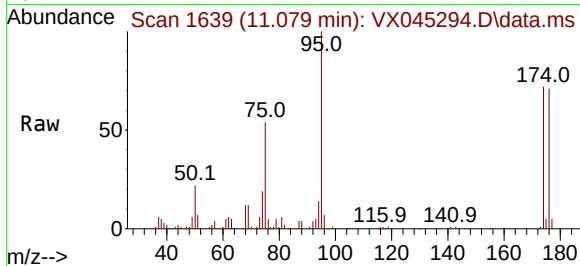




#60
4-Bromofluorobenzene
Concen: 31.752 ug/l
RT: 11.079 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

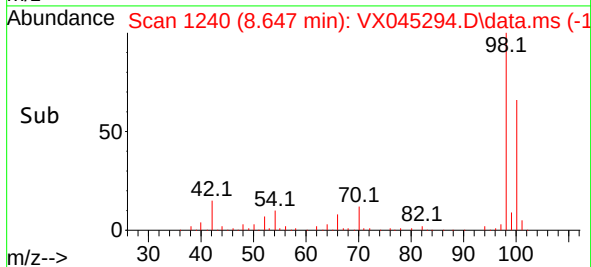
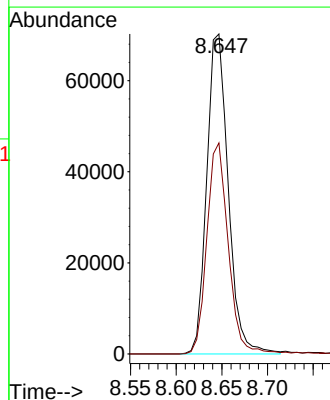
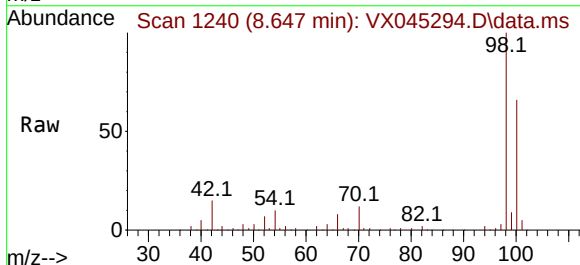
Instrument :
MSVOA_X
ClientSampleId :
EFF-WASTE WATER

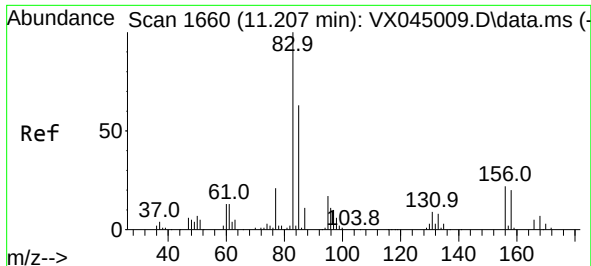
Tgt Ion: 95 Resp: 42574
Ion Ratio Lower Upper
95 100
174 68.8 59.5 89.3
176 66.5 55.5 83.3



#63
Toluene-d8
Concen: 28.934 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.006 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 98 Resp: 114825
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5

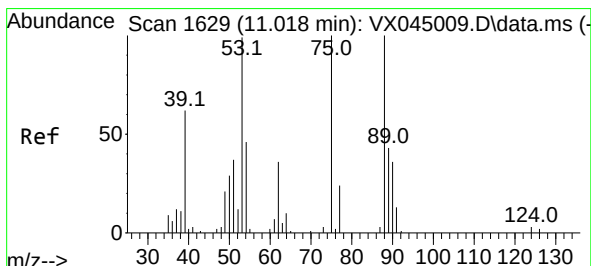
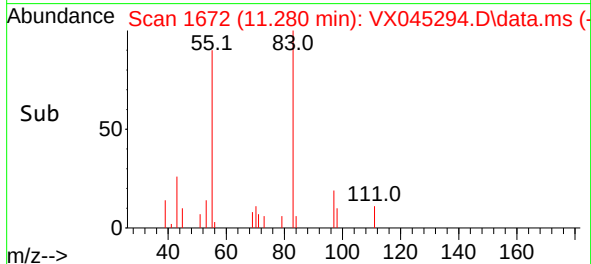
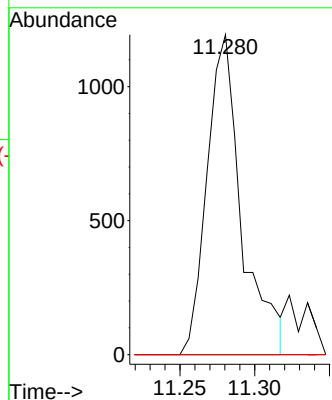
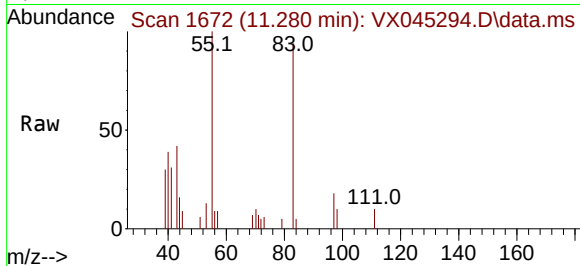




#71
1,1,2,2-Tetrachloroethane
Concen: 1.191 ug/l
RT: 11.280 min Scan# 1672
Delta R.T. 0.073 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Instrument :
MSVOA_X
ClientSampleId :
EFF-WASTE WATER

Tgt Ion: 83 Resp: 1922
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.3#
85 0.0 32.3 96.8#



#77
t-1,4-Dichloro-2-butene
Concen: 0.208 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045294.D
Acq: 14 Mar 2025 16:18

Tgt Ion: 75 Resp: 93
Ion Ratio Lower Upper
75 100
53 37.9 49.8 149.4#
89 0.0 21.4 64.2#

