

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030924\
 Data File : VX040626.D
 Acq On : 08 Mar 2024 14:43
 Operator : JC/MD
 Sample : P1723-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Mar 08 23:53:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

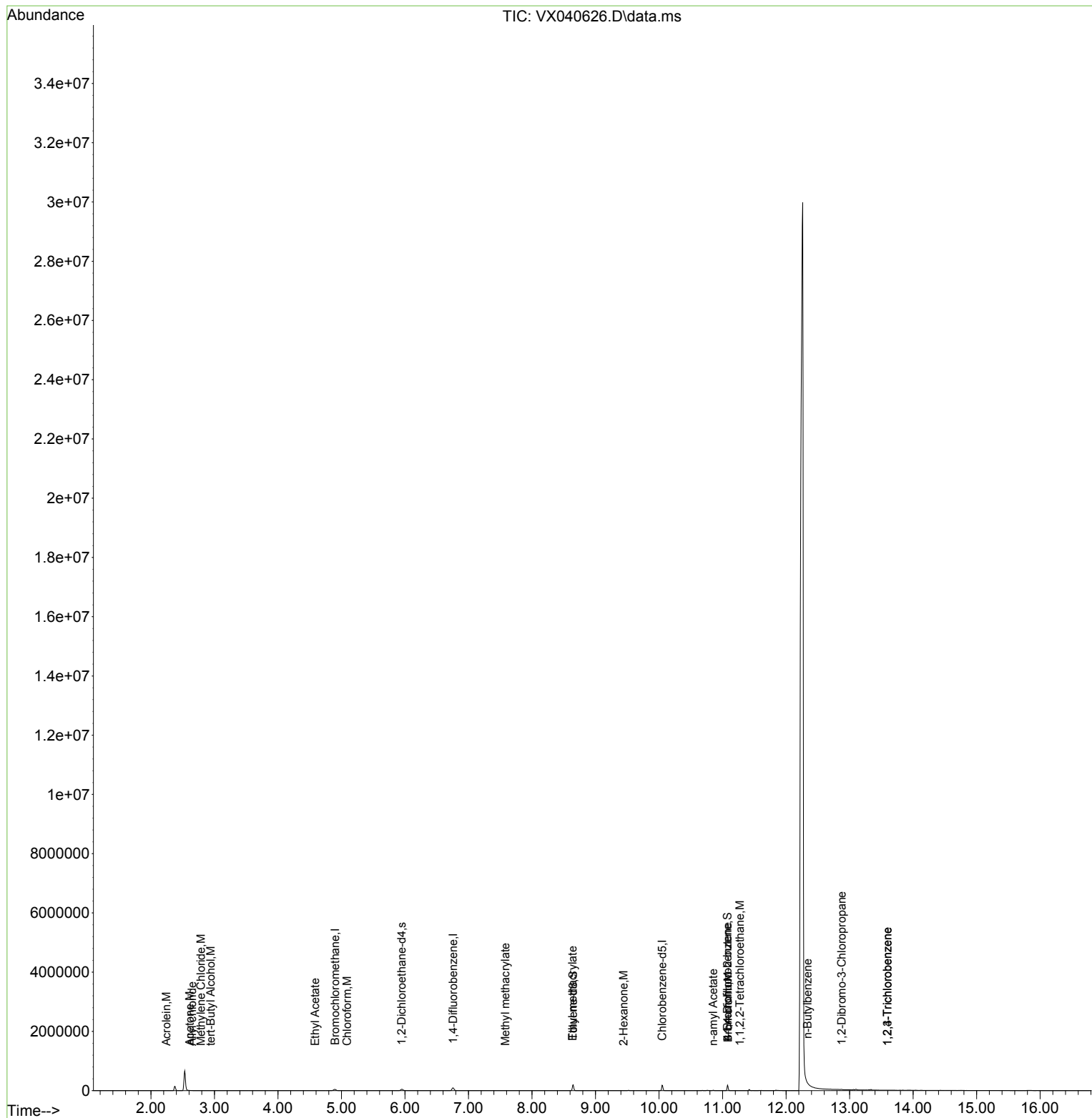
Internal Standards						
1) Bromochloromethane	4.897	128	16844	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	92930	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	80373	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	50131	29.799	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.333%
60) 4-Bromofluorobenzene	11.079	95	45474	32.985	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	109.933%
63) Toluene-d8	8.646	98	113450	31.941	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	106.467%
Target Compounds						
					Qvalue	
13) Acrolein	2.239	56	119	0.381	ug/l #	53
15) Acetone	2.611	58	271	1.455	ug/l	88
17) Allyl chloride	2.648	41	373	0.201	ug/l #	21
18) Methylene Chloride	2.788	84	455	0.397	ug/l #	72
23) tert-Butyl Alcohol	2.940	59	470	1.527	ug/l #	100
25) Chloroform	5.086	83	1099	0.471	ug/l	88
43) Ethyl Acetate	4.586	43	405	0.219	ug/l	98
46) Methyl methacrylate	7.580	41	573	0.391	ug/l #	43
47) n-amyl Acetate	10.853	43	1707	0.671	ug/l #	1
51) Ethyl methacrylate	8.640	69	447	0.246	ug/l	83
56) Bromoform	11.085	173	269	0.288	ug/l #	1
59) 2-Hexanone	9.439	43	748	0.517	ug/l #	88
71) 1,1,2,2-Tetrachloroethane	11.274	83	478	0.278	ug/l #	50
77) t-1,4-Dichloro-2-butene	11.079	75	26413	54.959	ug/l #	12
85) n-Butylbenzene	12.341	91	1057	0.250	ug/l #	59
88) 1,2-Dibromo-3-Chloropr...	12.877	75	243	0.529	ug/l #	7
89) 1,2,4-Trichlorobenzene	13.597	180	333	0.225	ug/l #	66
92) 1,2,3-Trichlorobenzene	13.597	180	333	0.229	ug/l	64

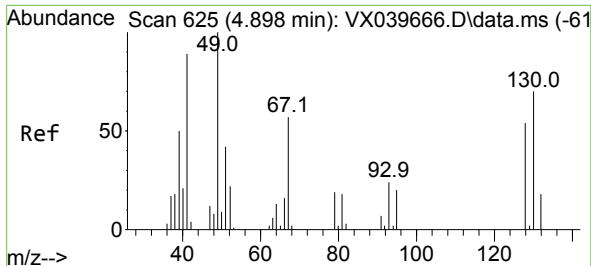
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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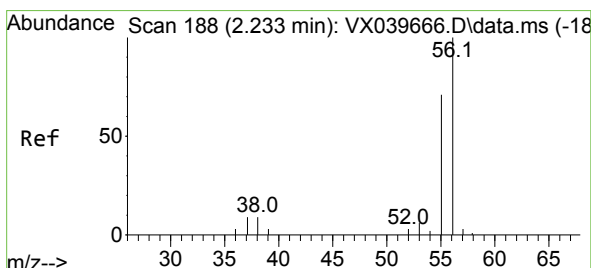
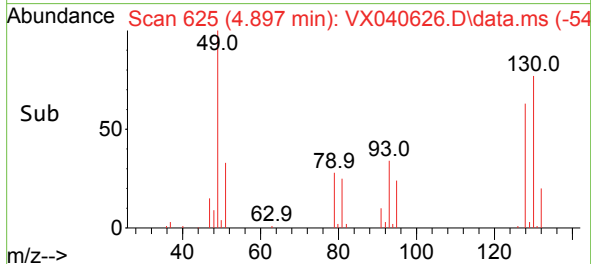
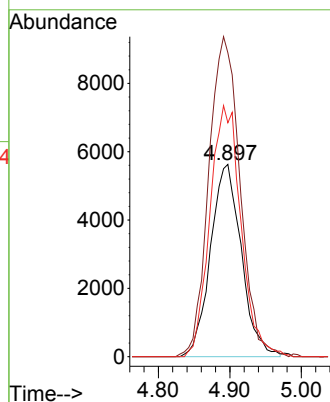
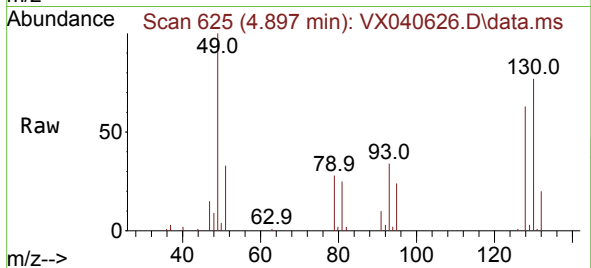




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

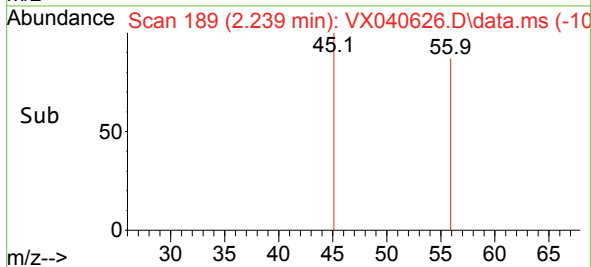
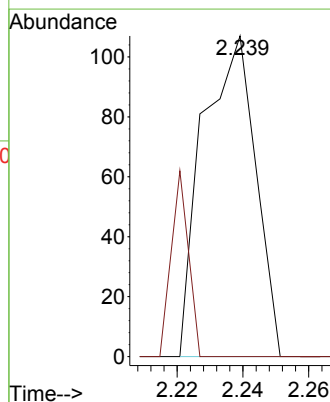
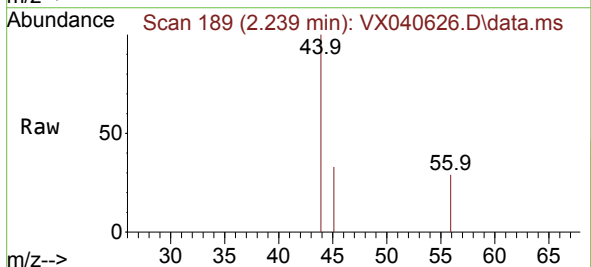
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

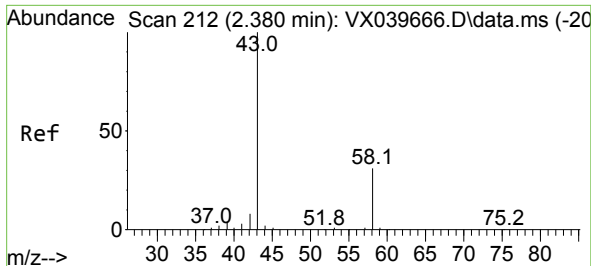
Tgt Ion:128 Resp: 16844
Ion Ratio Lower Upper
128 100
49 169.0 0.0 444.0
130 131.8 0.0 297.8



#13
Acrolein
Concen: 0.381 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.006 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 56 Resp: 119
Ion Ratio Lower Upper
56 100
55 32.8 57.2 85.8#





#15

Acetone

Concen: 1.455 ug/l

RT: 2.611 min Scan# 212

Delta R.T. 0.231 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

Instrument :

MSVOA_X

ClientSampleId :

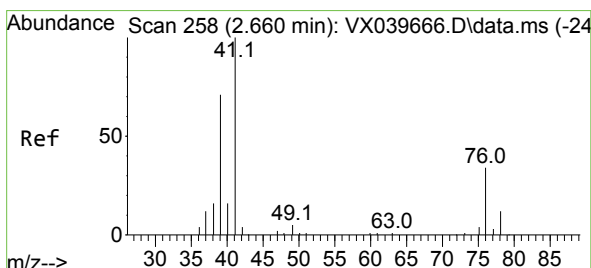
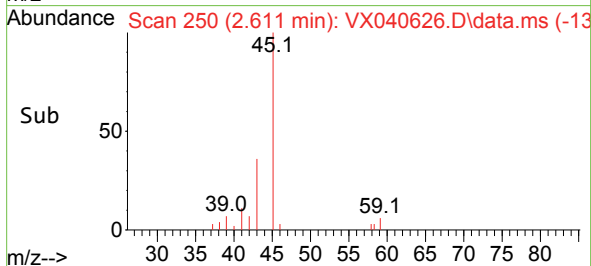
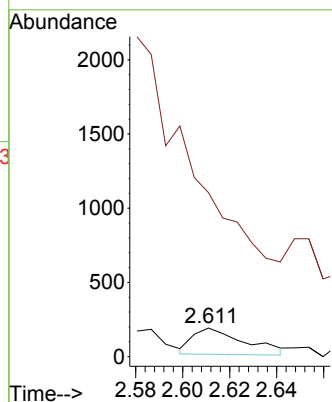
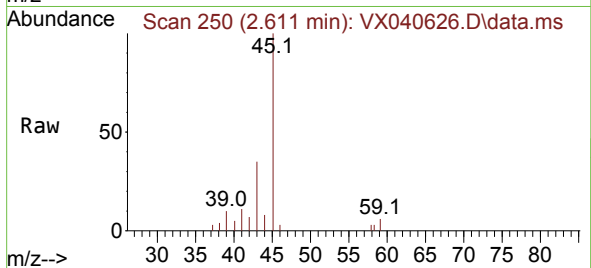
EFF-WW

Tgt Ion: 58 Resp: 271

Ion Ratio Lower Upper

58 100

43 336.0 249.9 374.9



#17

Allyl chloride

Concen: 0.201 ug/l

RT: 2.648 min Scan# 256

Delta R.T. -0.012 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

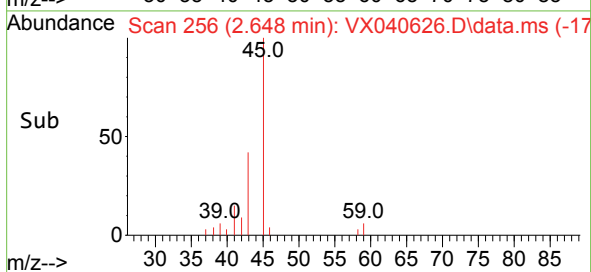
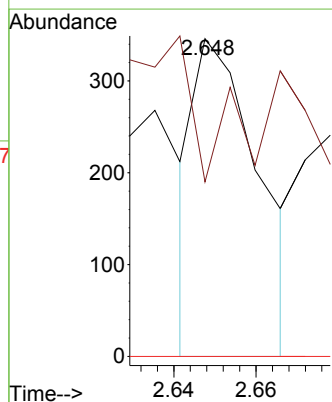
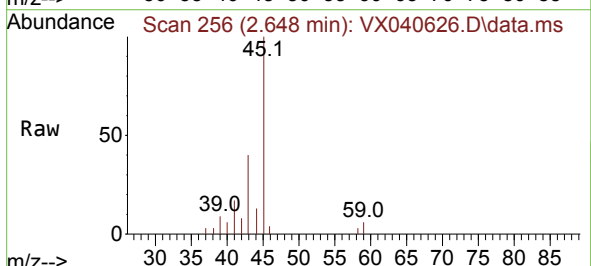
Tgt Ion: 41 Resp: 373

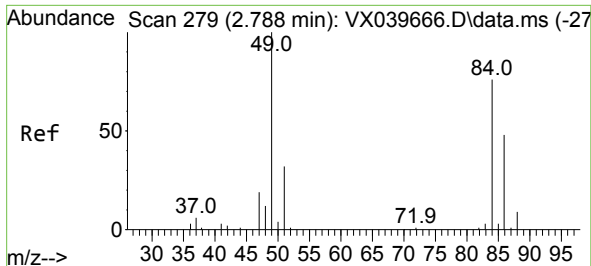
Ion Ratio Lower Upper

41 100

39 0.0 36.5 109.5#

76 0.0 19.7 59.0#

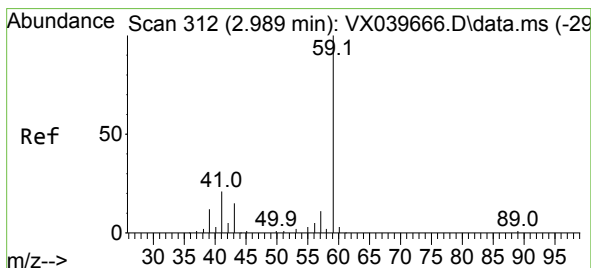
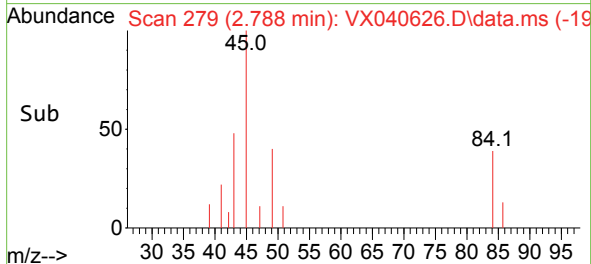
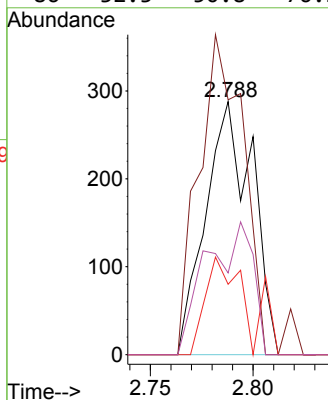
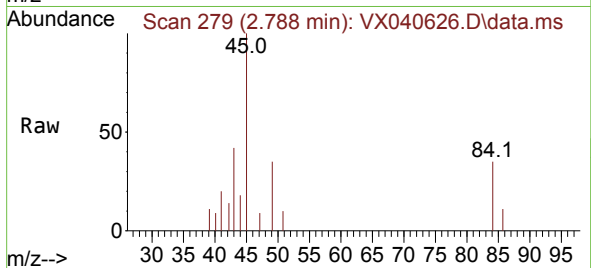




#18
Methylene Chloride
Concen: 0.397 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

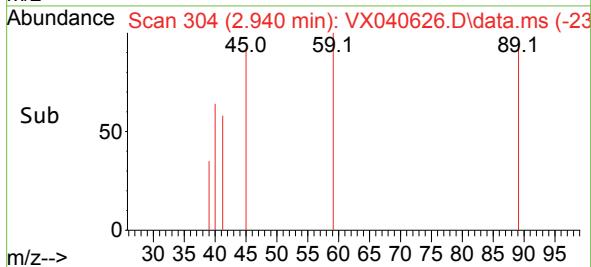
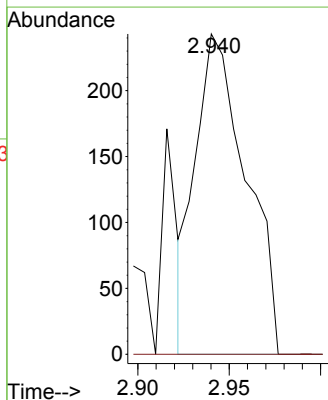
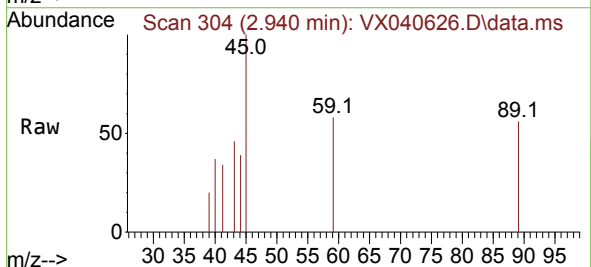
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

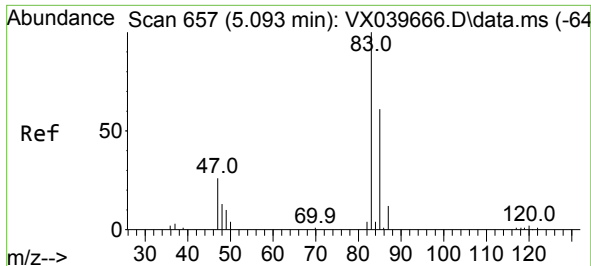
Tgt Ion: 84	Resp:	455
Ion	Ratio	Lower Upper
84	100	
49	100.7	103.8 155.8#
51	27.8	31.8 47.6#
86	32.3	50.8 76.2#



#23
tert-Butyl Alcohol
Concen: 1.527 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.049 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 59	Resp:	470
Ion	Ratio	Lower Upper
59	100	
52	0.0	0.0 0.0

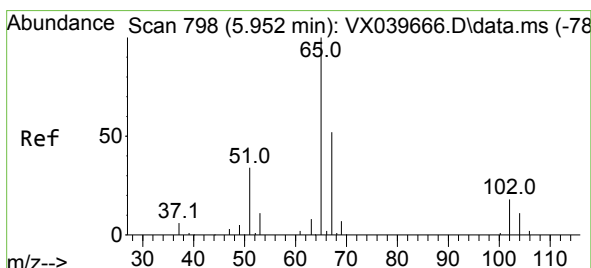
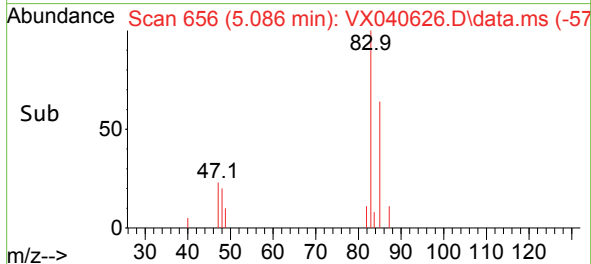
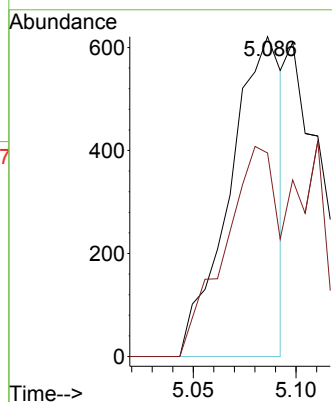
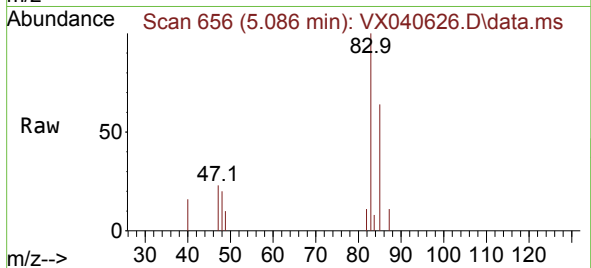




#25
Chloroform
Concen: 0.471 ug/l
RT: 5.086 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

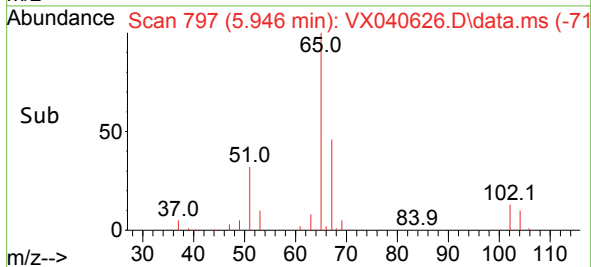
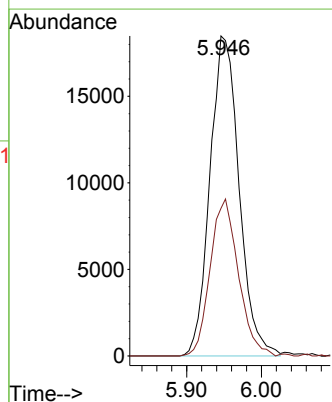
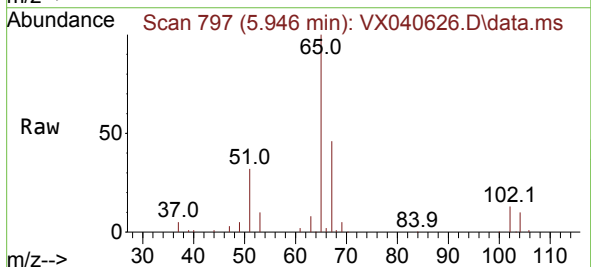
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

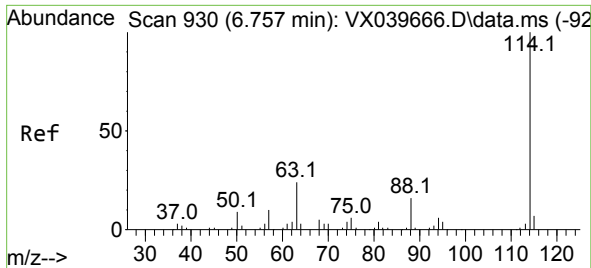
Tgt Ion: 83 Resp: 1099
Ion Ratio Lower Upper
83 100
85 58.9 54.6 81.8



#27
1,2-Dichloroethane-d4
Concen: 29.799 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 65 Resp: 50131
Ion Ratio Lower Upper
65 100
67 47.4 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

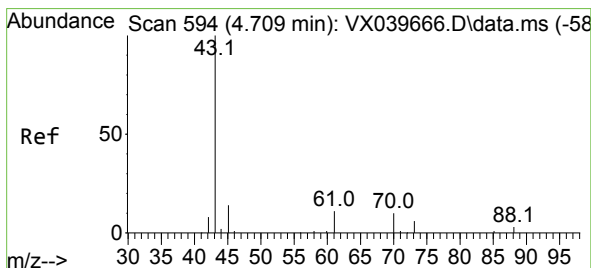
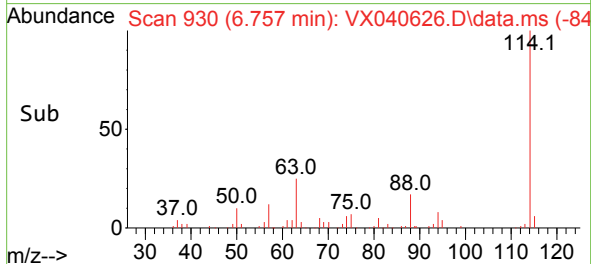
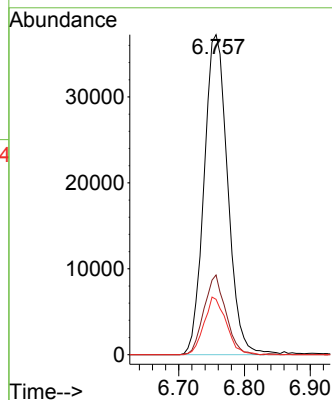
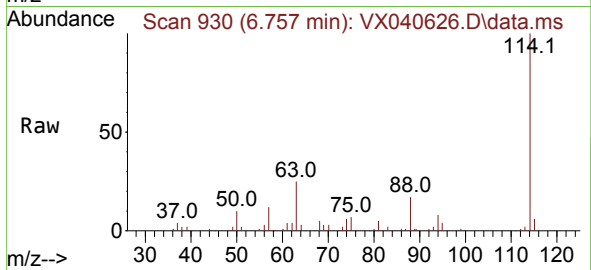
Tgt Ion:114 Resp: 92930

Ion Ratio Lower Upper

114 100

63 23.0 17.0 25.4

88 16.9 12.7 19.1



#43

Ethyl Acetate

Concen: 0.219 ug/l

RT: 4.586 min Scan# 574

Delta R.T. -0.123 min

Lab File: VX040626.D

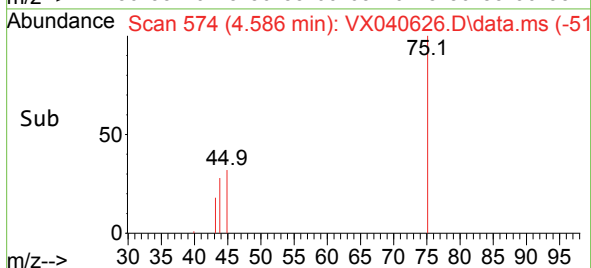
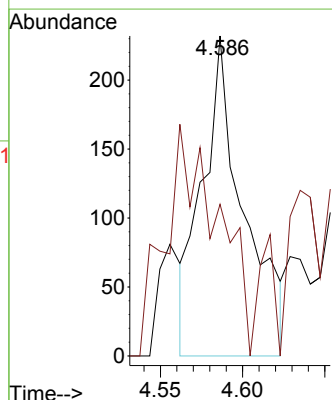
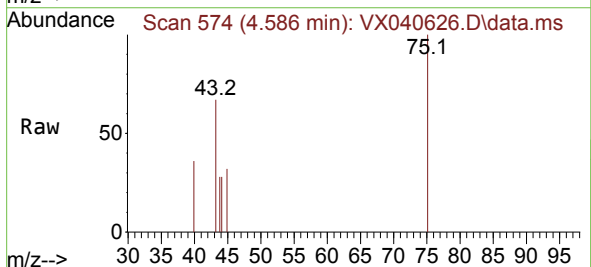
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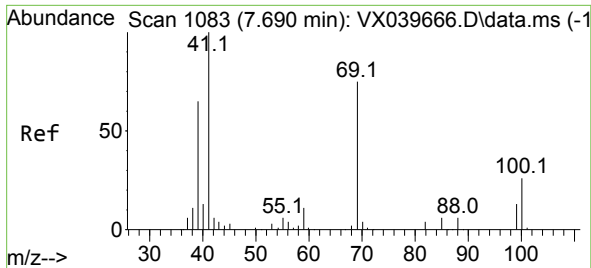
Tgt Ion: 43 Resp: 405

Ion Ratio Lower Upper

43 100

45 13.8 11.8 17.8

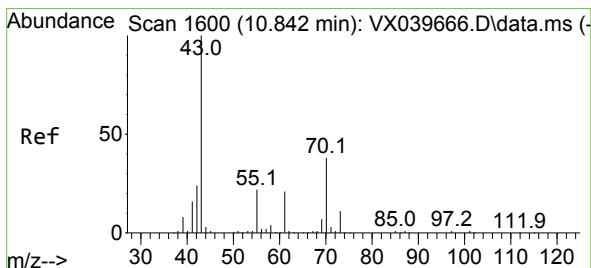
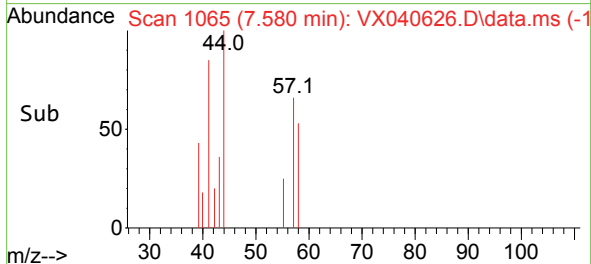
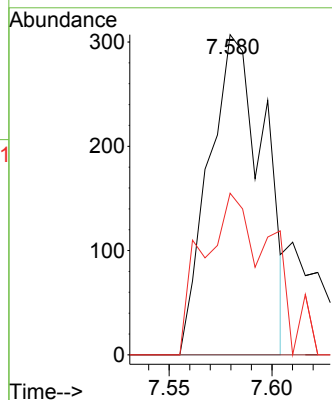
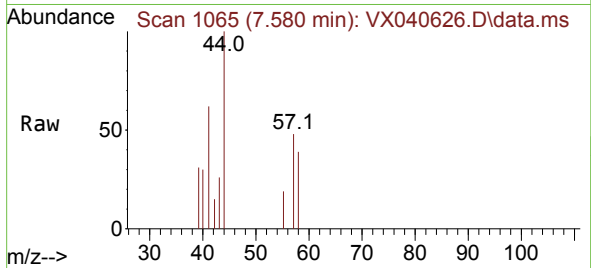




#46
Methyl methacrylate
Concen: 0.391 ug/l
RT: 7.580 min Scan# 1083
Delta R.T. -0.110 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

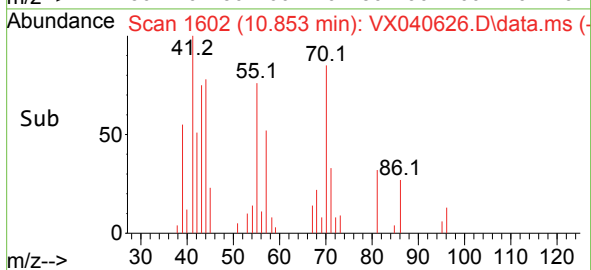
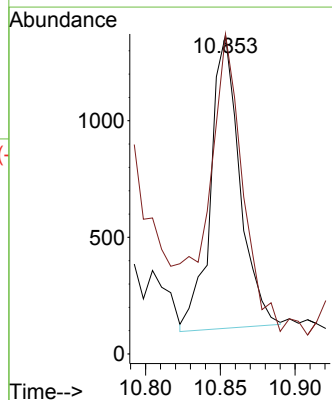
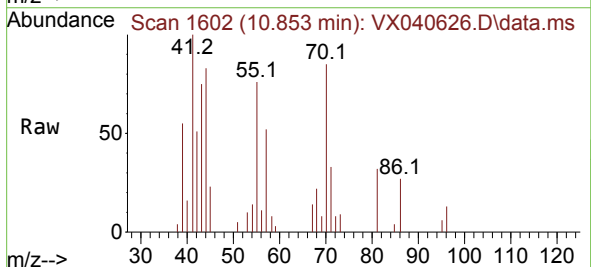
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

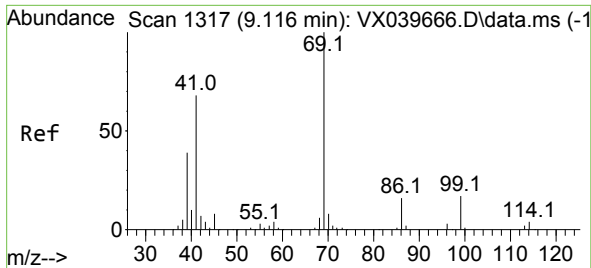
Tgt Ion: 41 Resp: 573
Ion Ratio Lower Upper
41 100
69 0.0 39.6 118.8#
39 50.5 30.1 90.3



#47
n-amy1 Acetate
Concen: 0.671 ug/l
RT: 10.853 min Scan# 1602
Delta R.T. 0.011 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 43 Resp: 1707
Ion Ratio Lower Upper
43 100
55 102.9 18.2 27.2#

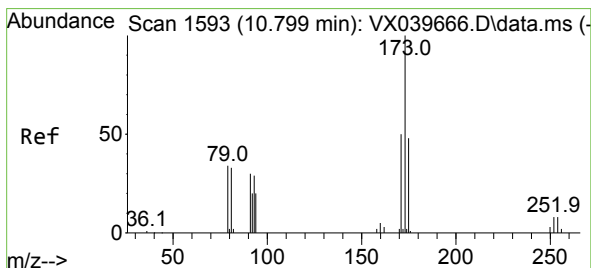
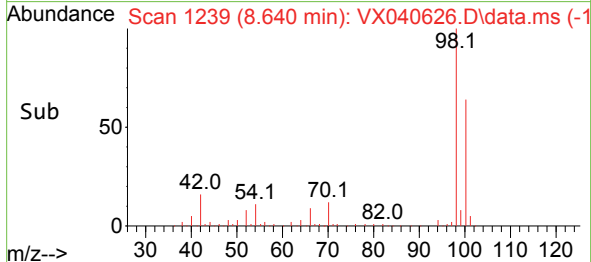
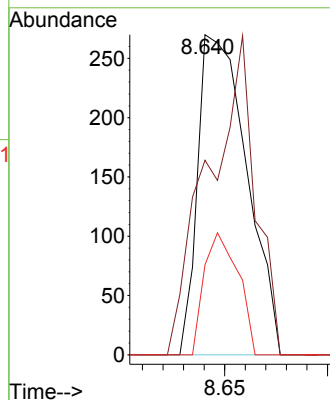
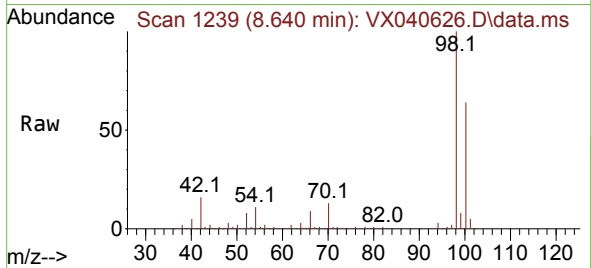




#51
Ethyl methacrylate
Concen: 0.246 ug/l
RT: 8.640 min Scan# 11
Delta R.T. -0.476 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

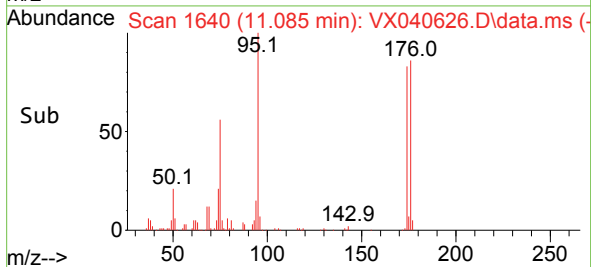
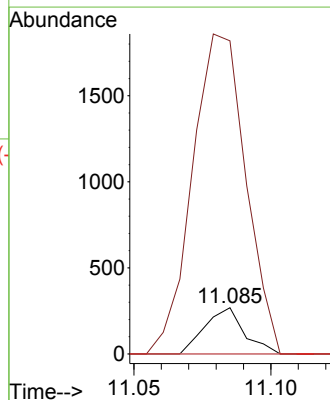
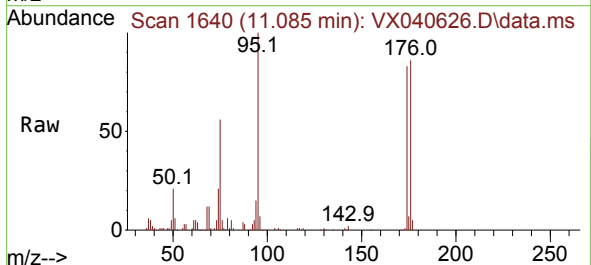
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

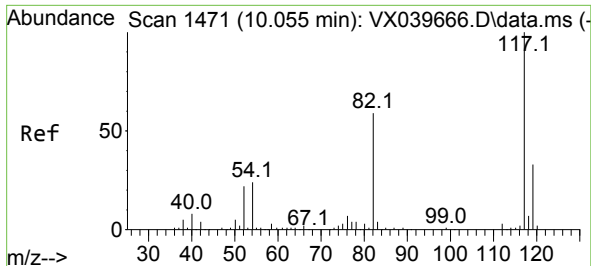
Tgt Ion: 69 Resp: 447
Ion Ratio Lower Upper
69 100
41 60.7 36.2 108.6
39 28.1 21.1 63.4



#56
Bromoform
Concen: 0.288 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.286 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 173 Resp: 269
Ion Ratio Lower Upper
173 100
175 938.7 37.6 56.4#
254 0.0 5.8 8.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

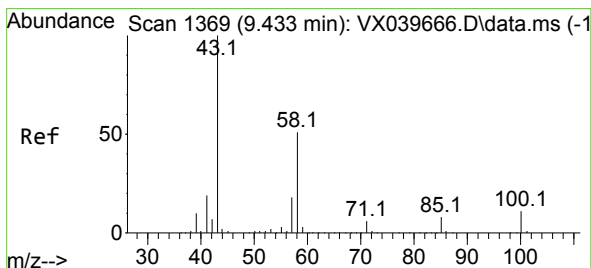
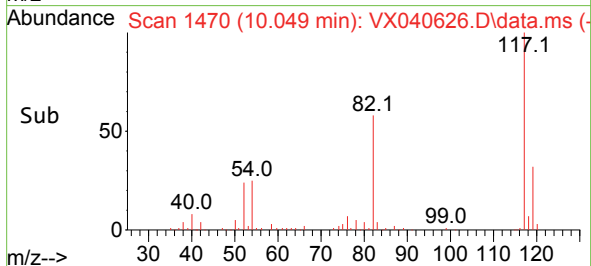
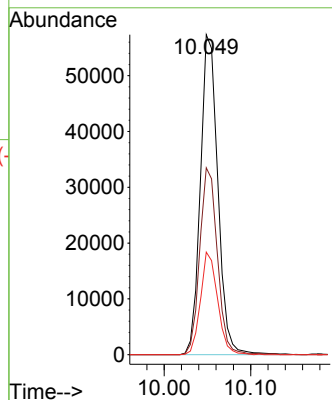
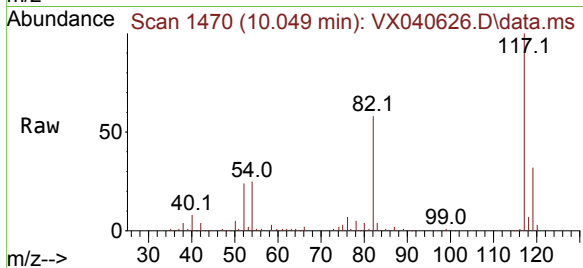
Tgt Ion:117 Resp: 80373

Ion Ratio Lower Upper

117 100

82 58.7 47.0 70.6

119 31.3 25.2 37.8



#59

2-Hexanone

Concen: 0.517 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

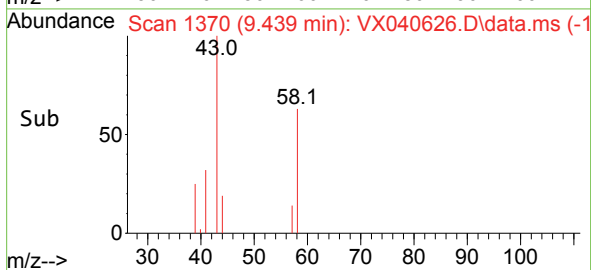
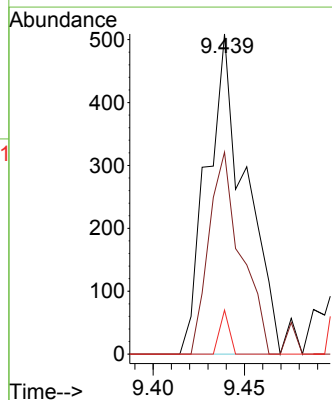
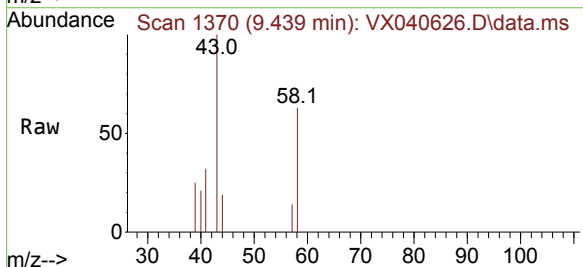
Tgt Ion: 43 Resp: 748

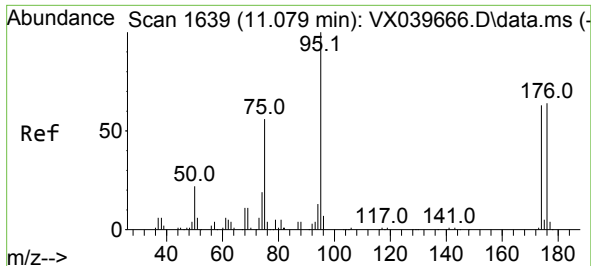
Ion Ratio Lower Upper

43 100

58 52.5 42.7 64.1

57 0.0 14.8 22.2#

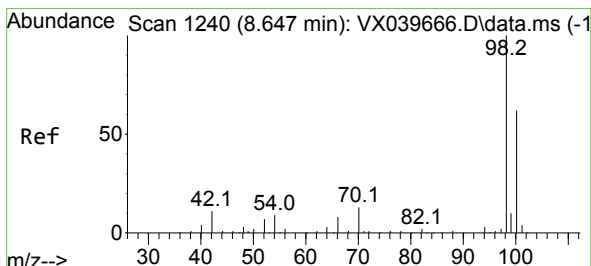
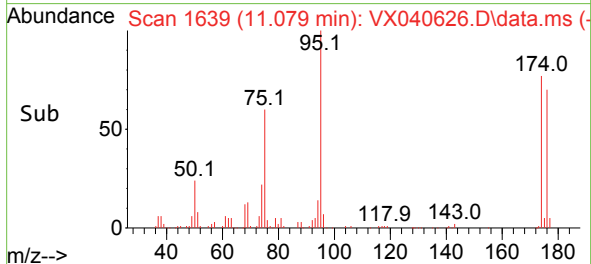
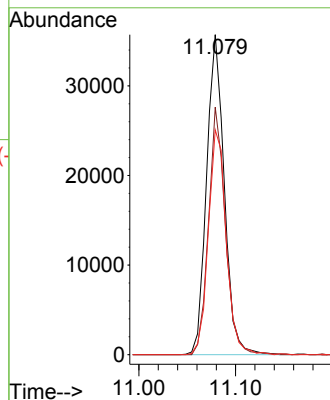
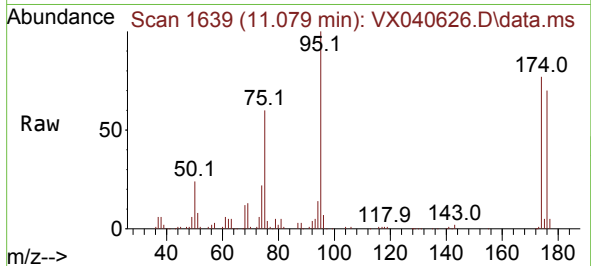




#60
4-Bromofluorobenzene
Concen: 32.985 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

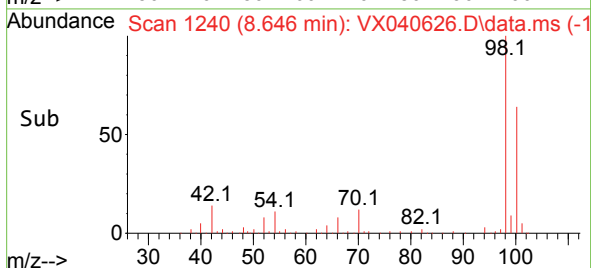
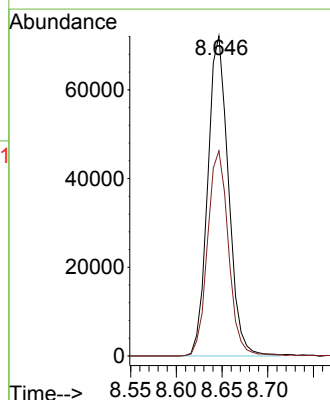
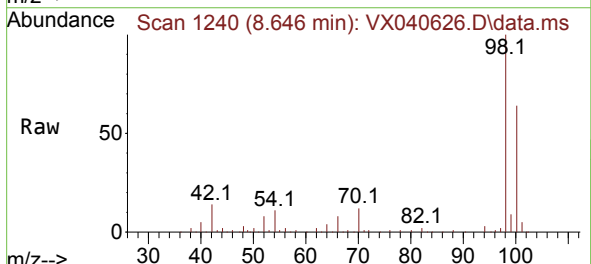
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

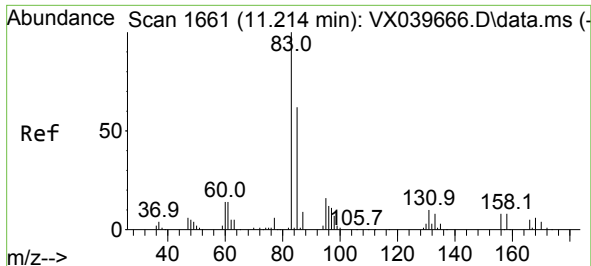
Tgt Ion: 95 Resp: 45474
Ion Ratio Lower Upper
95 100
174 73.8 55.4 83.2
176 70.9 52.6 78.8



#63
Toluene-d8
Concen: 31.941 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.001 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 98 Resp: 113450
Ion Ratio Lower Upper
98 100
100 64.7 51.0 76.4





#71

1,1,2,2-Tetrachloroethane

Concen: 0.278 ug/l

RT: 11.274 min Scan# 1

Delta R.T. 0.060 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

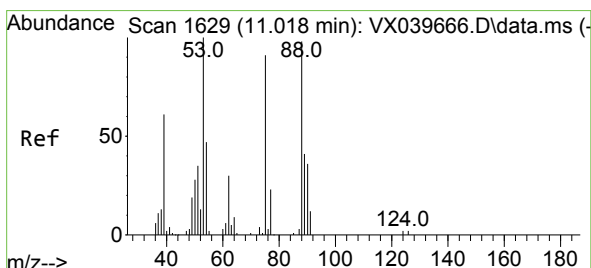
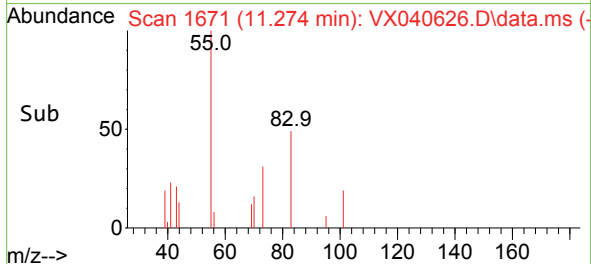
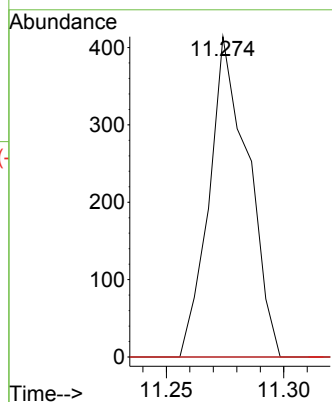
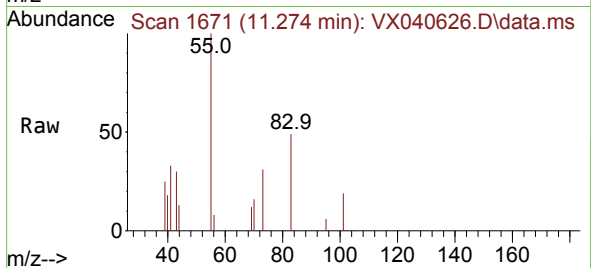
Tgt Ion: 83 Resp: 478

Ion Ratio Lower Upper

83 100

131 10.0 4.6 13.8

85 20.1 32.5 97.4#



#77

t-1,4-Dichloro-2-butene

Concen: 54.959 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX040626.D

Acq: 08 Mar 2024 14:43

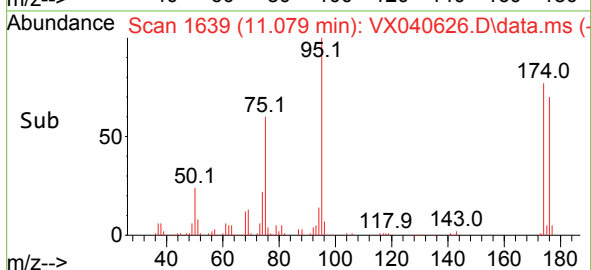
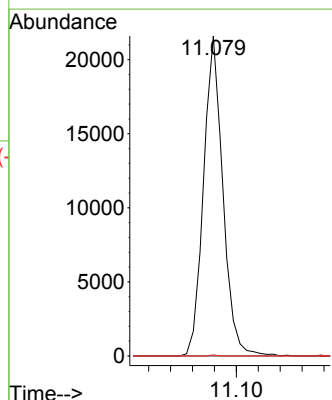
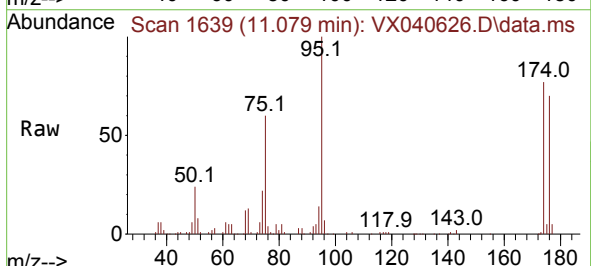
Tgt Ion: 75 Resp: 26413

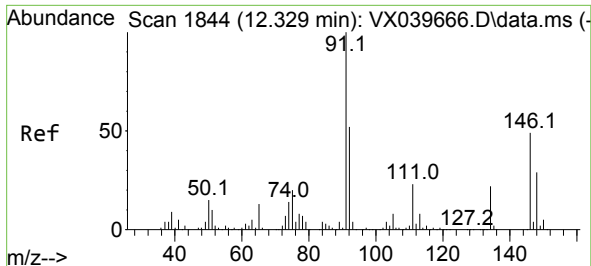
Ion Ratio Lower Upper

75 100

53 0.0 46.9 140.8#

89 0.4 21.3 63.7#

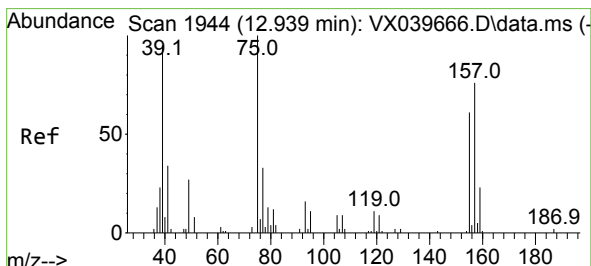
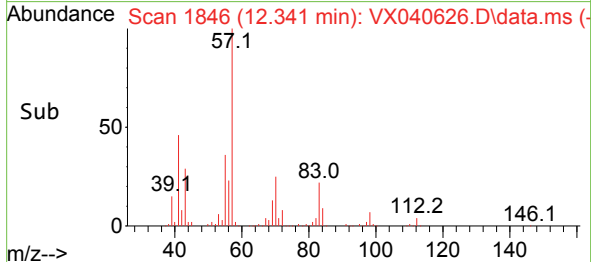
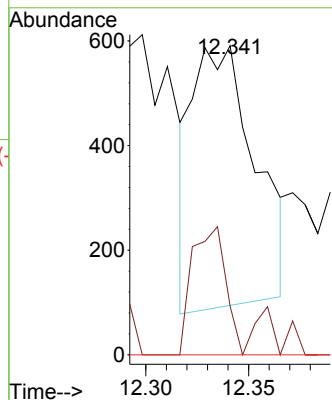
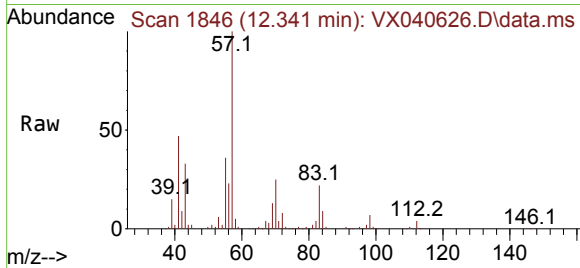




#85
n-Butylbenzene
Concen: 0.250 ug/l
RT: 12.341 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

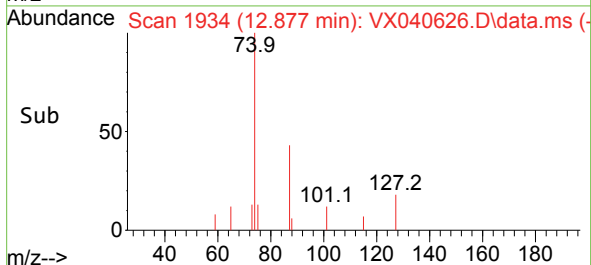
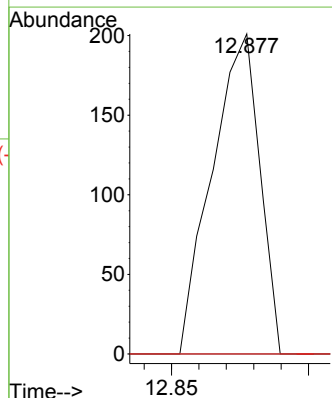
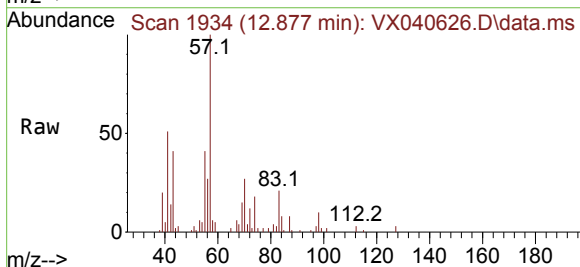
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

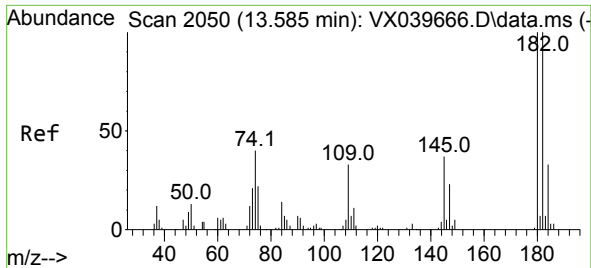
Tgt Ion: 91 Resp: 1057
Ion Ratio Lower Upper
91 100
92 26.4 0.0 106.2
134 0.0 0.0 48.8



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.529 ug/l
RT: 12.877 min Scan# 1934
Delta R.T. -0.062 min
Lab File: VX040626.D
Acq: 08 Mar 2024 14:43

Tgt Ion: 75 Resp: 243
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.4#
157 0.0 76.5 114.7#

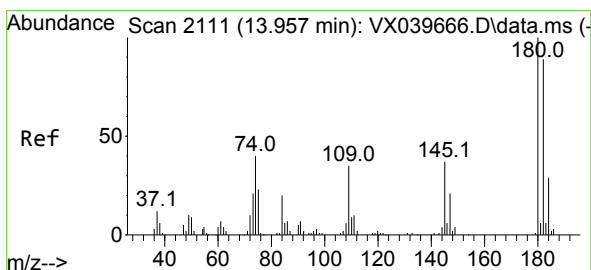
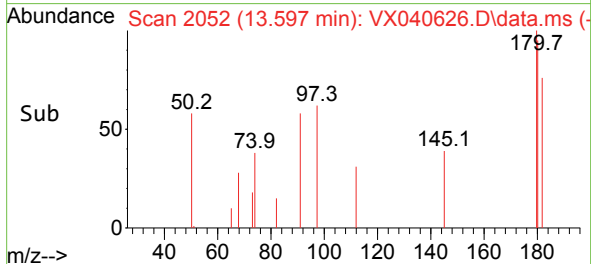
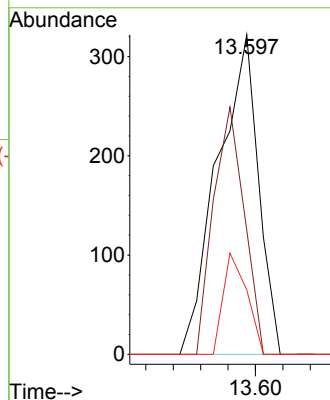
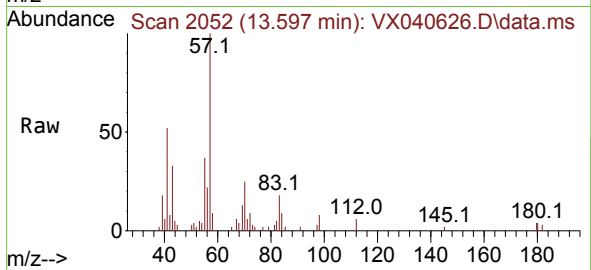




#89
 1,2,4-Trichlorobenzene
 Concen: 0.225 ug/l
 RT: 13.597 min Scan# 2052
 Delta R.T. 0.012 min
 Lab File: VX040626.D
 Acq: 08 Mar 2024 14:43

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Tgt Ion:180 Resp: 333
 Ion Ratio Lower Upper
 180 100
 182 58.3 74.5 111.7#
 145 18.3 26.6 40.0#



#92
 1,2,3-Trichlorobenzene
 Concen: 0.229 ug/l
 RT: 13.597 min Scan# 2052
 Delta R.T. -0.360 min
 Lab File: VX040626.D
 Acq: 08 Mar 2024 14:43

Tgt Ion:180 Resp: 333
 Ion Ratio Lower Upper
 180 100
 182 58.3 0.0 191.6
 145 18.3 0.0 69.6

