

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046634.D
 Acq On : 11 Jun 2025 13:40
 Operator : JC/MD
 Sample : Q2264-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Jun 12 01:39:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

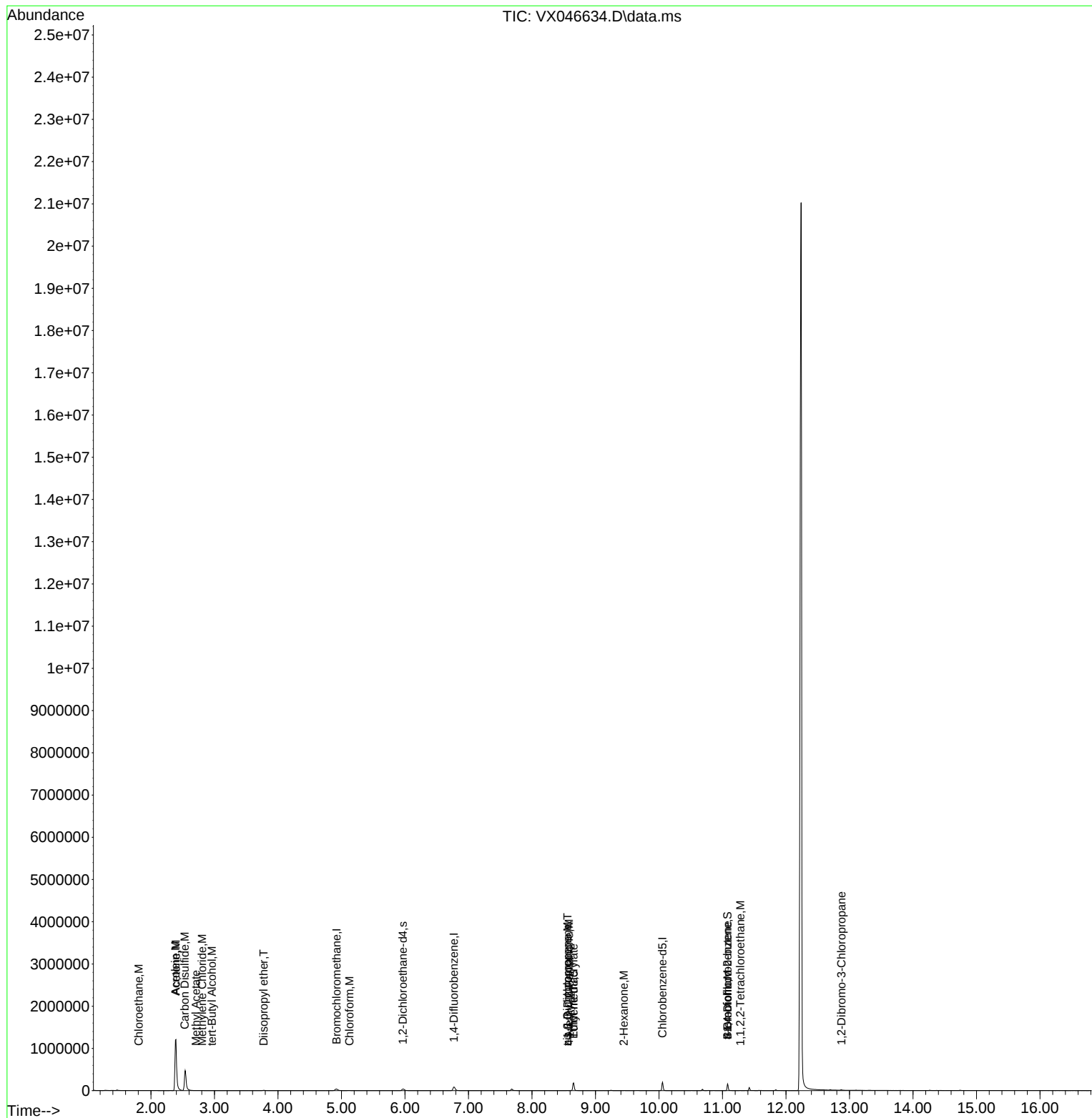
Internal Standards						
1) Bromochloromethane	4.922	128	16594	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	91514	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85872	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	43589	32.451	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.167%
60) 4-Bromofluorobenzene	11.079	95	42732	29.523	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.400%
63) Toluene-d8	8.653	98	111256	29.005	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.700%
Target Compounds						
					Qvalue	
6) Chloroethane	1.807	64	213	0.346	ug/l #	53
12) Methyl Acetate	2.709	43	381	0.305	ug/l #	54
13) Acrolein	2.386	56	183	1.496	ug/l #	60
15) Acetone	2.392	58	435179	3708.832	ug/l	89
16) Carbon Disulfide	2.532	76	725	0.264	ug/l #	75
18) Methylene Chloride	2.806	84	286	0.262	ug/l #	69
20) Diisopropyl ether	3.776	45	8633	2.539	ug/l #	60
23) tert-Butyl Alcohol	2.959	59	342	3.300	ug/l #	100
25) Chloroform	5.123	83	4822	2.405	ug/l	91
48) t-1,3-Dichloropropene	8.562	75	322	0.223	ug/l #	43
49) cis-1,3-Dichloropropene	8.562	75	322	0.200	ug/l #	71
51) Ethyl methacrylate	8.653	69	433	0.286	ug/l	91
56) Bromoform	11.079	173	322	0.445	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	375	0.268	ug/l #	45
59) 2-Hexanone	9.446	43	1766	1.792	ug/l #	89
71) 1,1,2,2-Tetrachloroethane	11.281	83	725	0.486	ug/l #	33
77) t-1,4-Dichloro-2-butene	11.079	75	22720	54.001	ug/l #	1
88) 1,2-Dibromo-3-Chloropr...	12.872	75	217	0.705	ug/l #	7

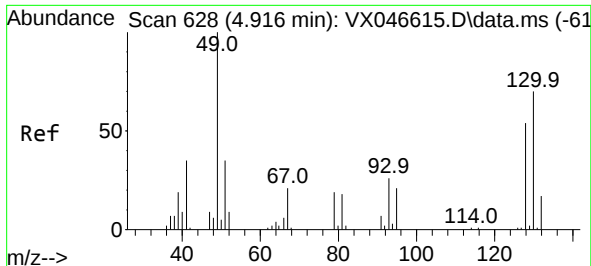
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046634.D
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Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Quant Time: Jun 12 01:39:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 11 06:20:28 2025
Response via : Initial Calibration

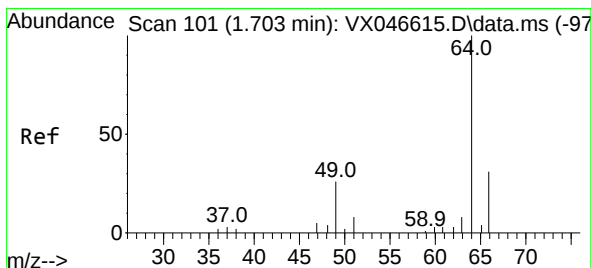
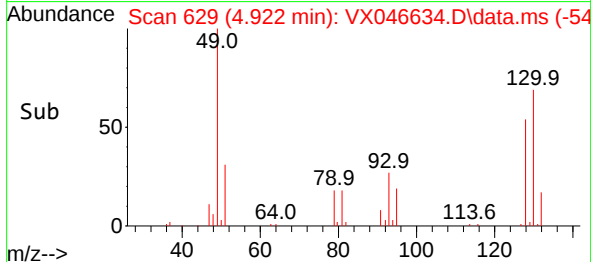
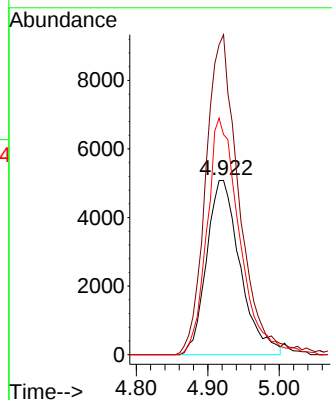
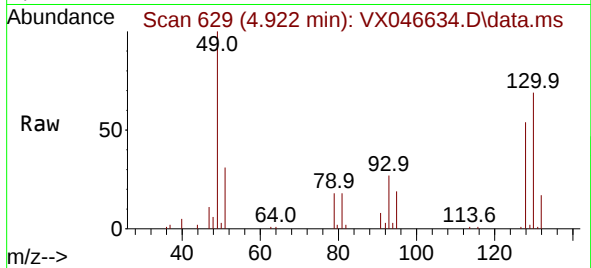




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

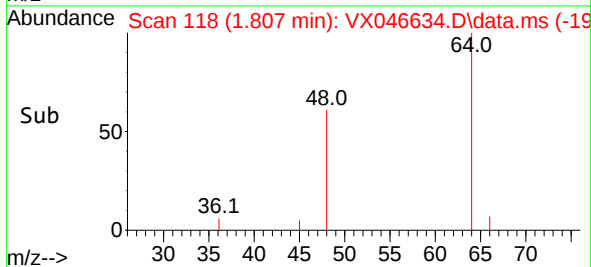
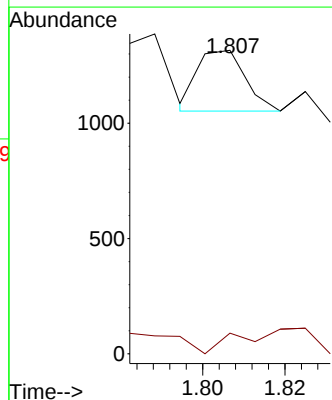
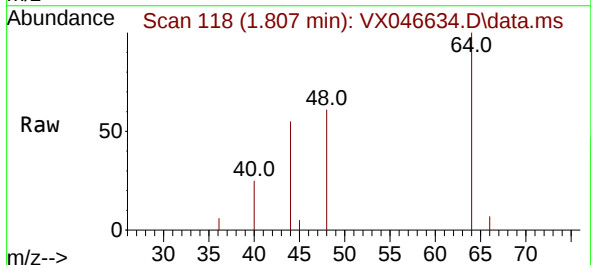
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

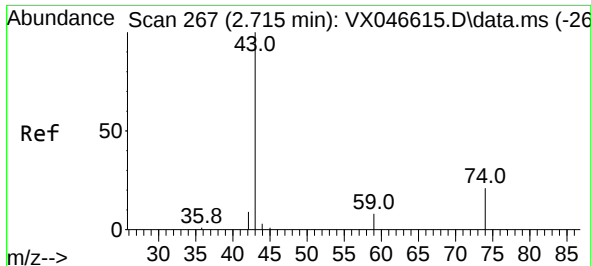
Tgt Ion:128 Resp: 16594
Ion Ratio Lower Upper
128 100
49 180.4 0.0 448.3
130 131.1 0.0 312.0



#6
Chloroethane
Concen: 0.346 ug/l
RT: 1.807 min Scan# 118
Delta R.T. 0.104 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion: 64 Resp: 213
Ion Ratio Lower Upper
64 100
66 5.3 25.0 37.6#





#12

Methyl Acetate

Concen: 0.305 ug/l

RT: 2.709 min Scan# 2

Delta R.T. -0.006 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

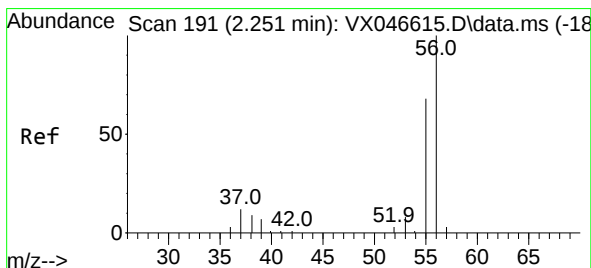
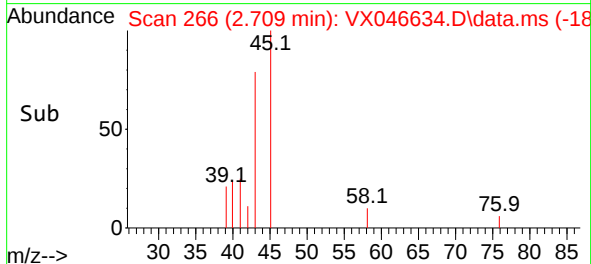
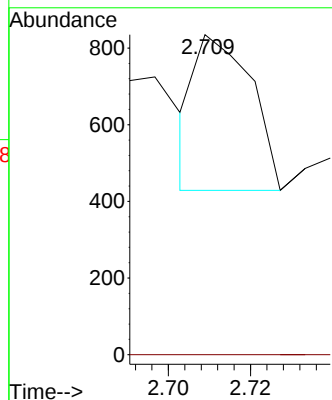
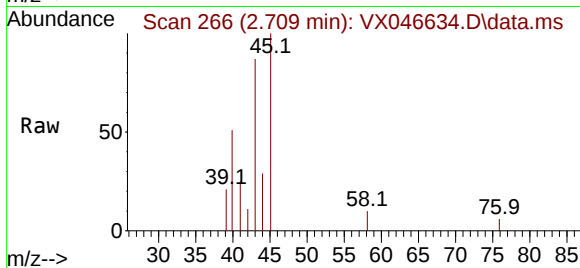
EFF-WW

Tgt Ion: 43 Resp: 381

Ion Ratio Lower Upper

43 100

74 0.0 17.2 25.8#



#13

Acrolein

Concen: 1.496 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.134 min

Lab File: VX046634.D

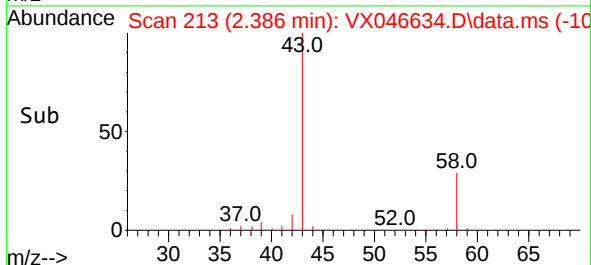
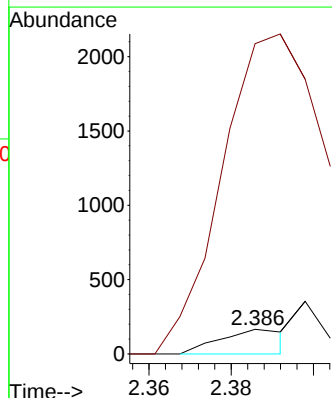
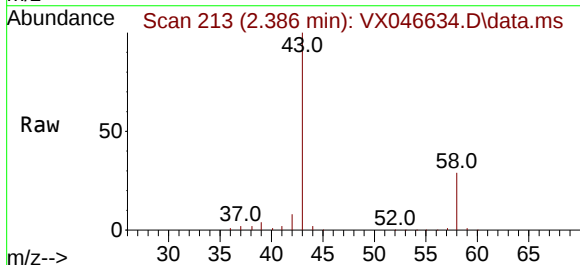
Acq: 11 Jun 2025 13:40

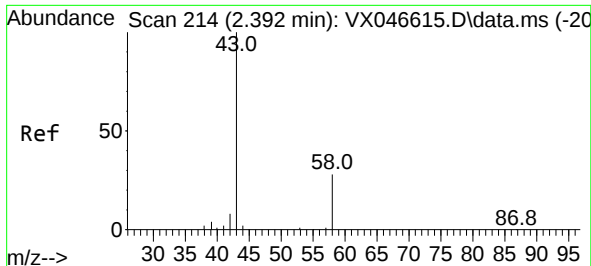
Tgt Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 37.2 56.0 84.0#

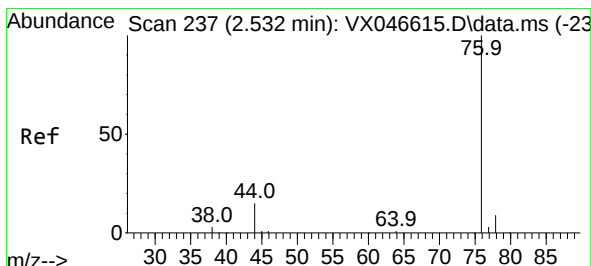
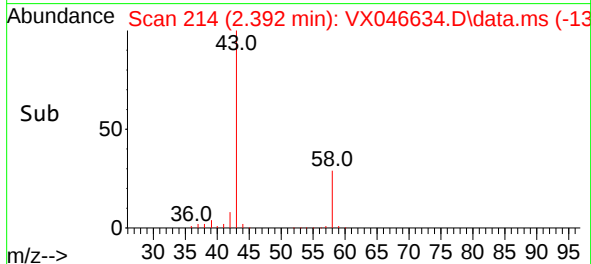
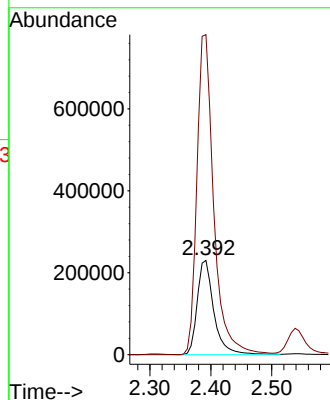
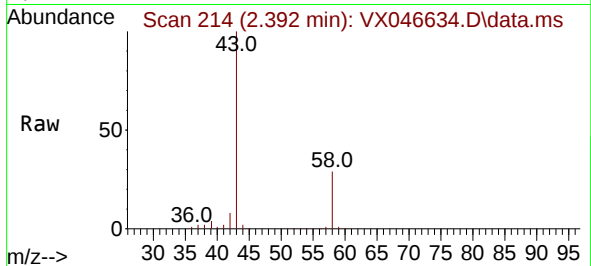




#15
Acetone
Concen: 3708.832 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

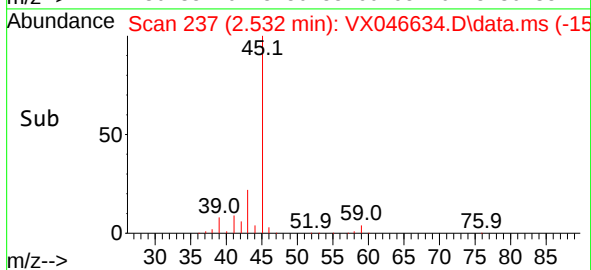
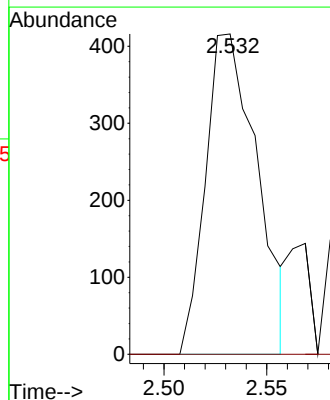
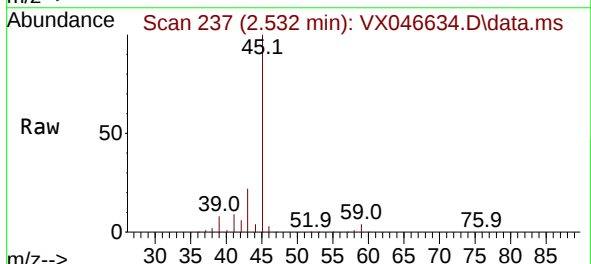
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

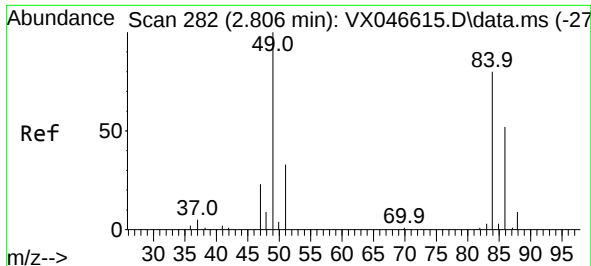
Tgt Ion: 58 Resp: 435179
Ion Ratio Lower Upper
58 100
43 339.7 290.6 435.8



#16
Carbon Disulfide
Concen: 0.264 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

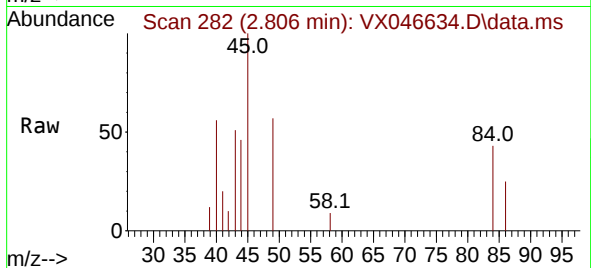
Tgt Ion: 76 Resp: 725
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



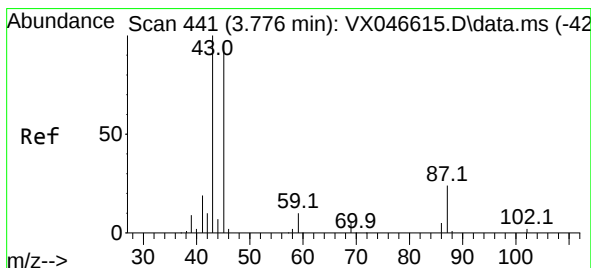
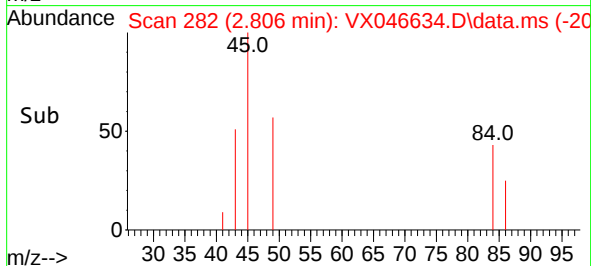
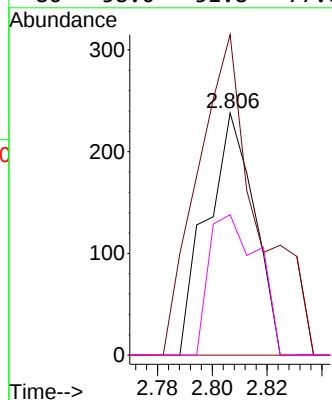


#18
Methylene Chloride
Concen: 0.262 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

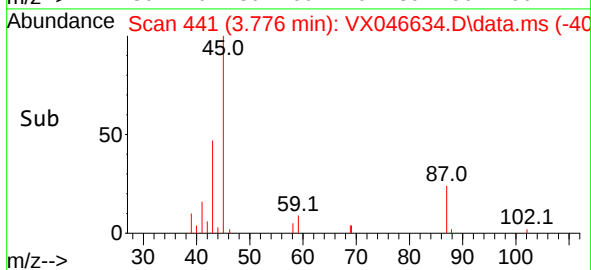
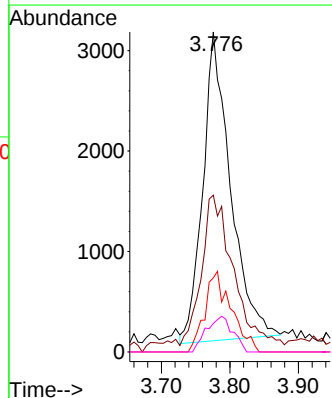
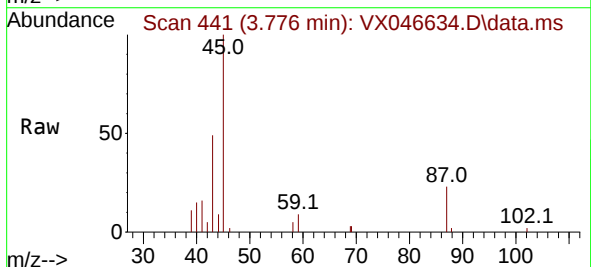


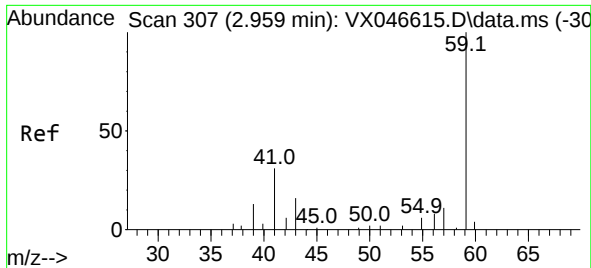
Tgt Ion:	84	Resp:	286
Ion	Ratio	Lower	Upper
84	100		
49	90.3	100.1	150.1#
51	0.0	33.0	49.4#
86	58.0	51.8	77.6



#20
Diisopropyl ether
Concen: 2.539 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion:	45	Resp:	8633
Ion	Ratio	Lower	Upper
45	100		
43	49.6	83.2	124.8#
87	24.4	20.2	30.4
59	9.4	8.7	13.1

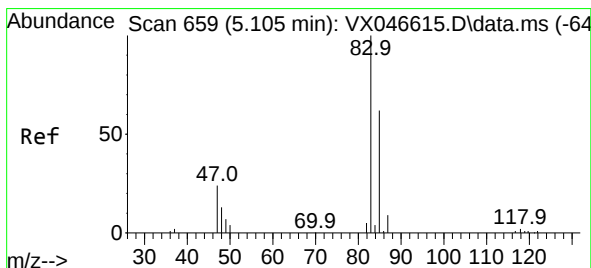
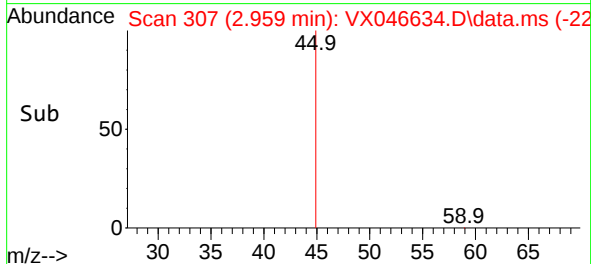
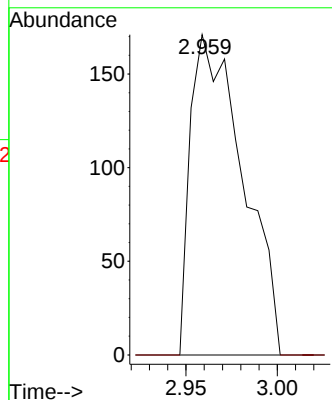
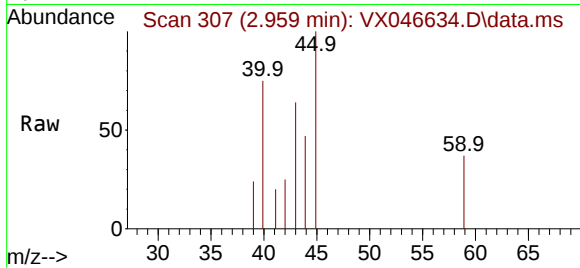




#23
tert-Butyl Alcohol
Concen: 3.300 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

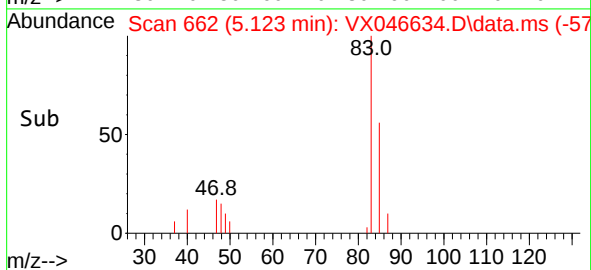
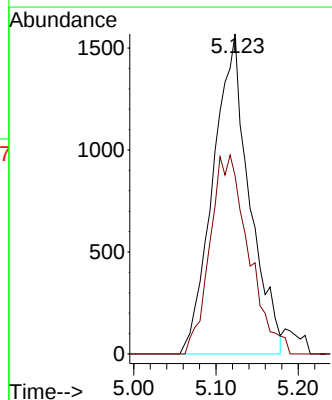
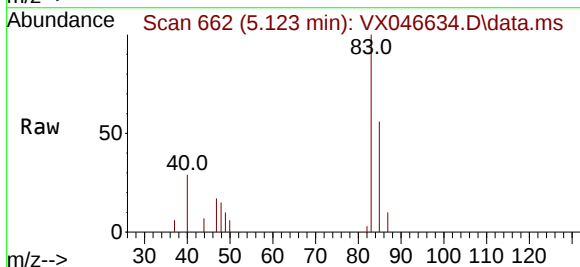
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

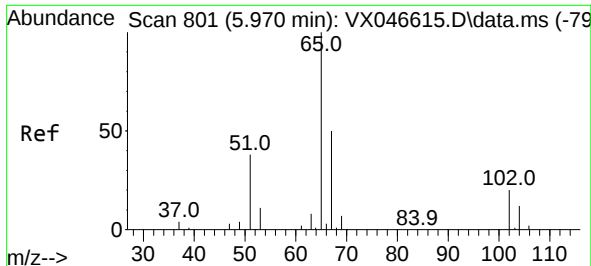
Tgt Ion: 59 Resp: 342
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.405 ug/l
RT: 5.123 min Scan# 662
Delta R.T. 0.018 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion: 83 Resp: 4822
Ion Ratio Lower Upper
83 100
85 55.6 49.8 74.6





#27

1,2-Dichloroethane-d4

Concen: 32.451 ug/l

RT: 5.964 min Scan# 801

Delta R.T. -0.006 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

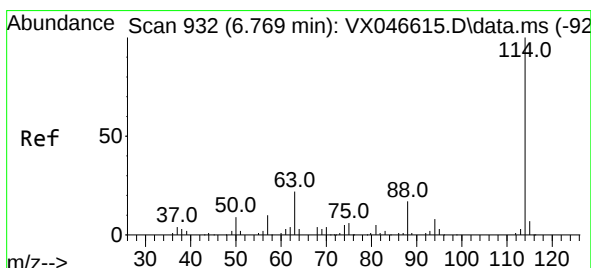
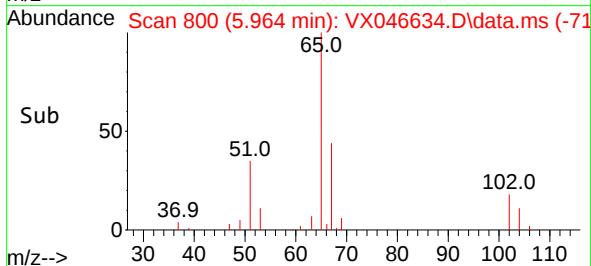
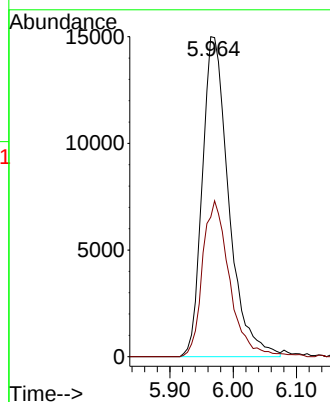
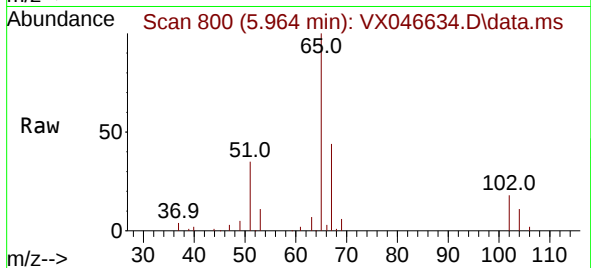
EFF-WW

Tgt Ion: 65 Resp: 43589

Ion Ratio Lower Upper

65 100

67 49.8 41.4 62.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

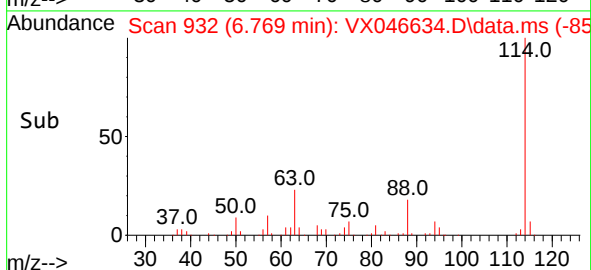
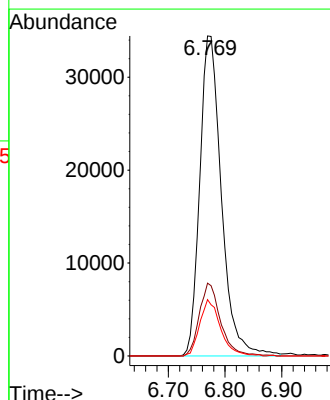
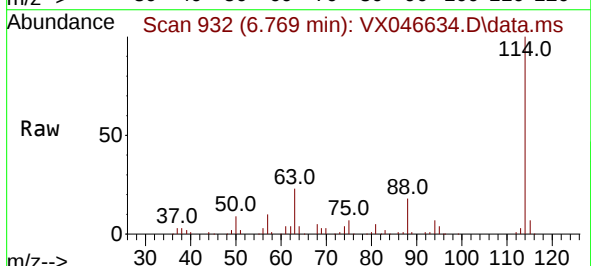
Tgt Ion: 114 Resp: 91514

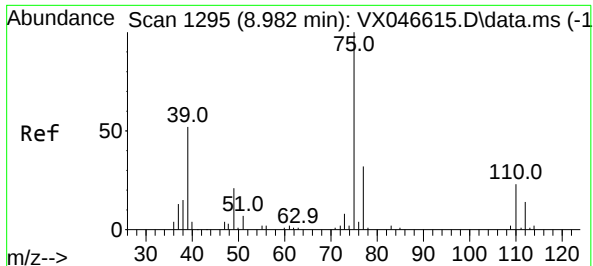
Ion Ratio Lower Upper

114 100

63 22.2 18.1 27.1

88 16.8 14.1 21.1





#48

t-1,3-Dichloropropene

Concen: 0.223 ug/l

RT: 8.562 min Scan# 11

Delta R.T. -0.420 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

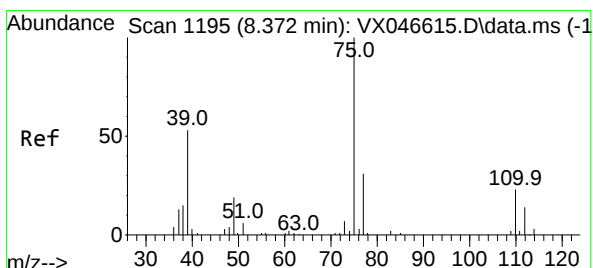
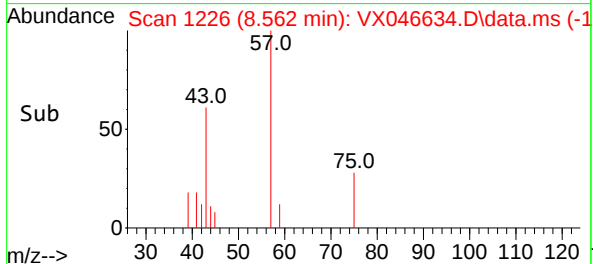
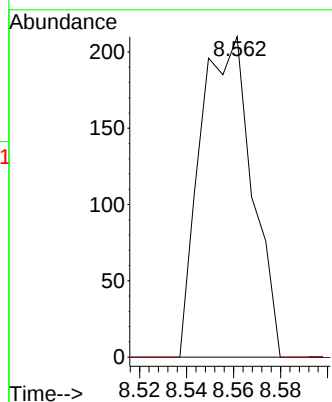
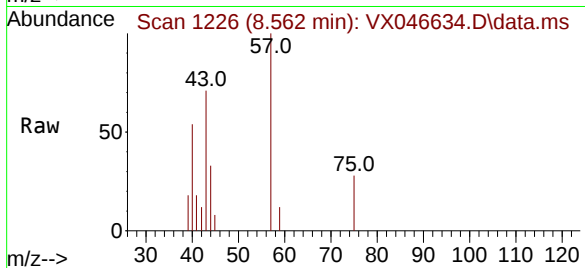
EFF-WW

Tgt Ion: 75 Resp: 322

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#49

cis-1,3-Dichloropropene

Concen: 0.200 ug/l

RT: 8.562 min Scan# 1226

Delta R.T. 0.189 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

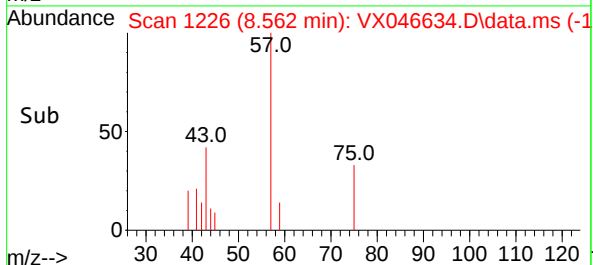
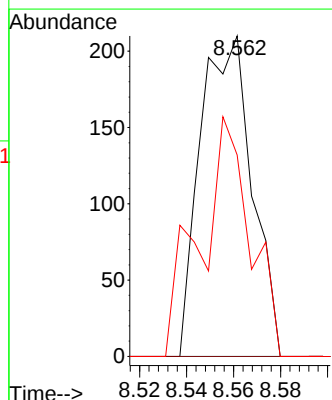
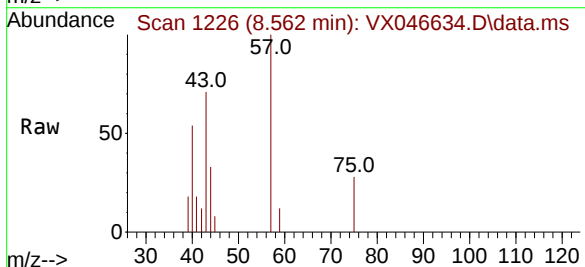
Tgt Ion: 75 Resp: 322

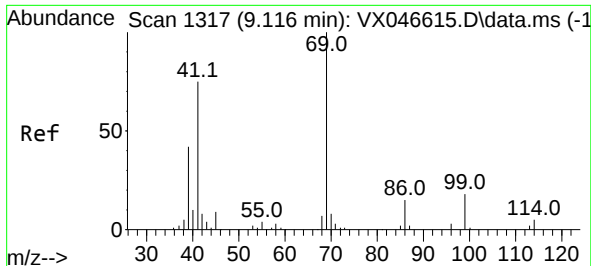
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 62.9 42.7 64.1

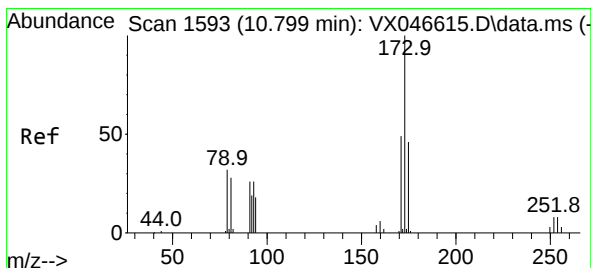
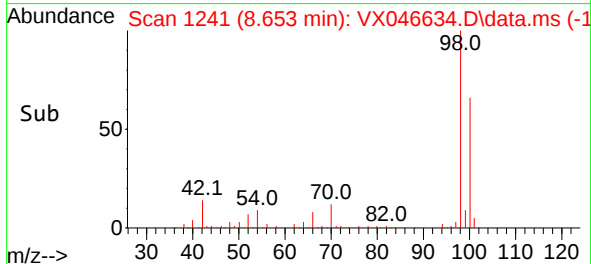
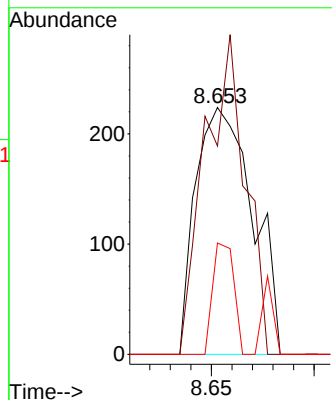
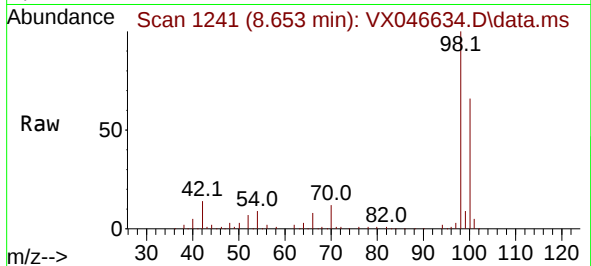




#51
Ethyl methacrylate
Concen: 0.286 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

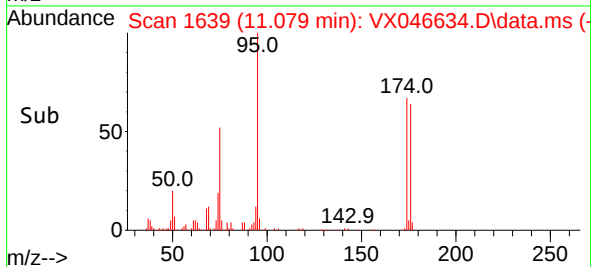
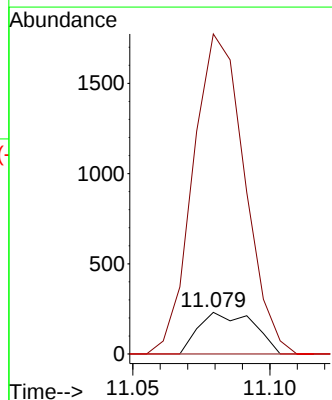
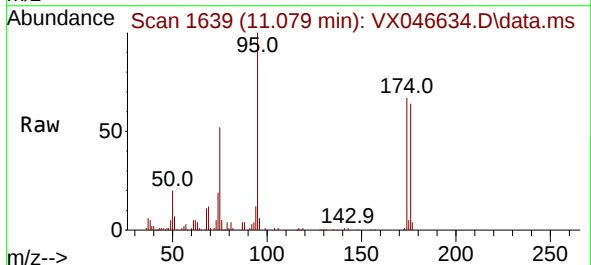
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

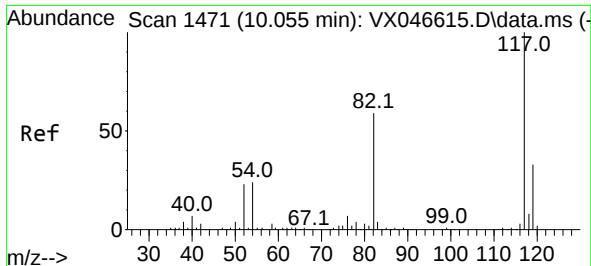
Tgt Ion: 69 Resp: 433
Ion Ratio Lower Upper
69 100
41 84.4 37.4 112.2
39 45.1 20.8 62.5



#56
Bromoform
Concen: 0.445 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion:173 Resp: 322
Ion Ratio Lower Upper
173 100
175 722.0 38.0 57.0#
254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

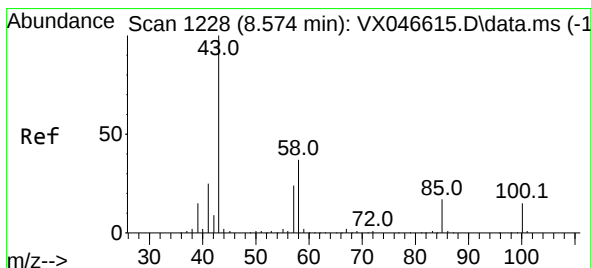
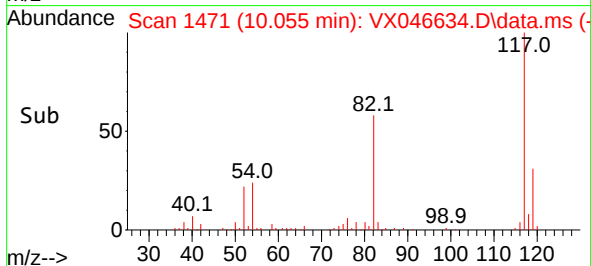
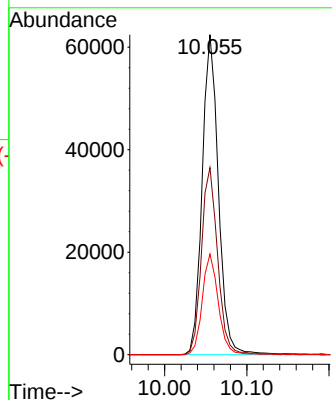
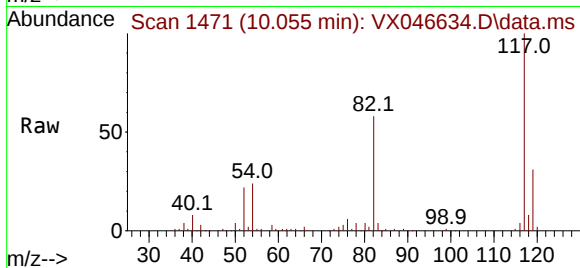
Tgt Ion:117 Resp: 85872

Ion Ratio Lower Upper

117 100

82 58.4 46.5 69.7

119 31.0 25.8 38.6



#58

4-Methyl-2-Pentanone

Concen: 0.268 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX046634.D

Acq: 11 Jun 2025 13:40

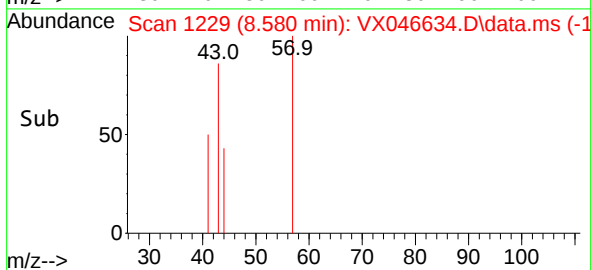
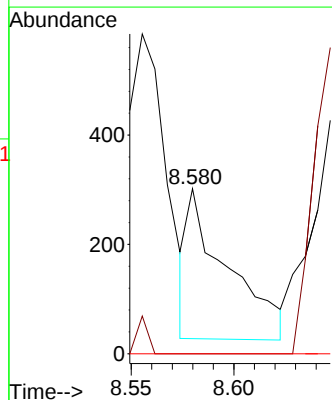
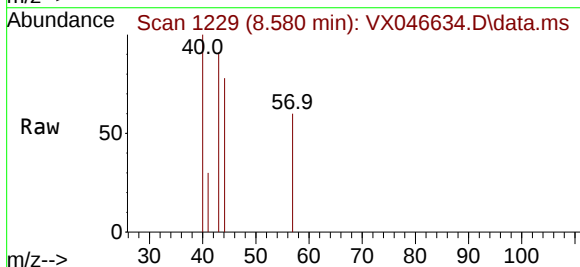
Tgt Ion: 43 Resp: 375

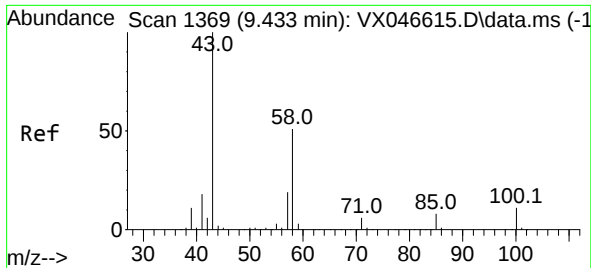
Ion Ratio Lower Upper

43 100

58 0.0 29.4 44.2#

85 0.0 13.3 19.9#

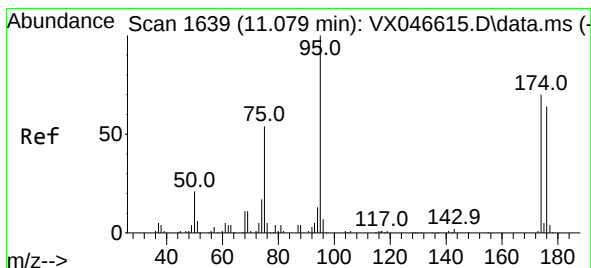
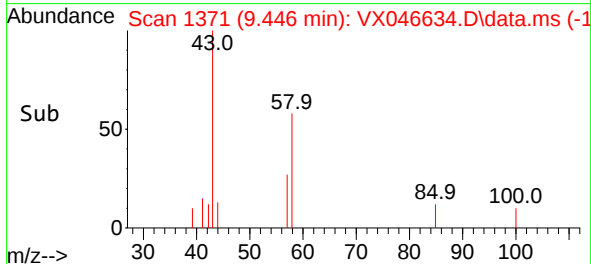
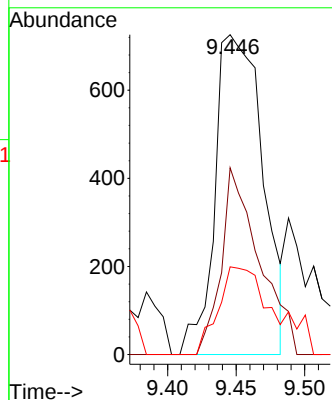
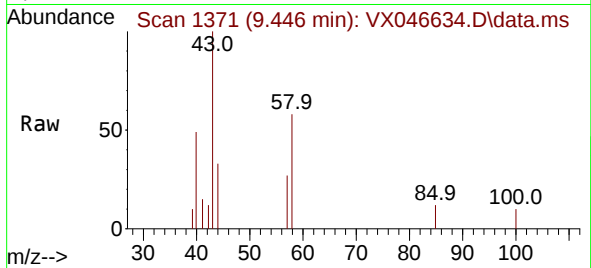




#59
2-Hexanone
Concen: 1.792 ug/l
RT: 9.446 min Scan# 1371
Delta R.T. 0.012 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

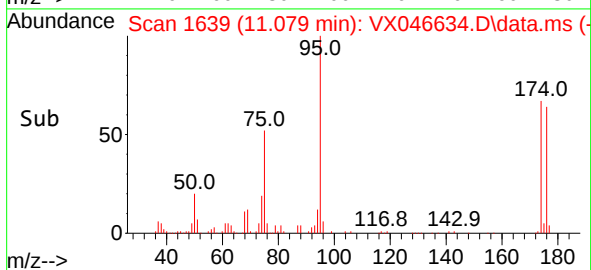
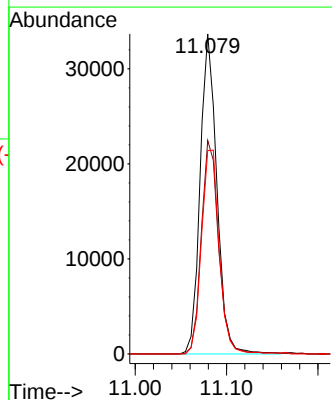
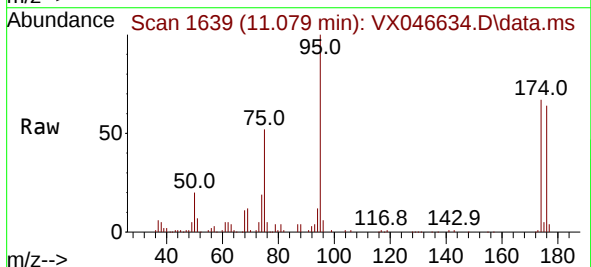
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

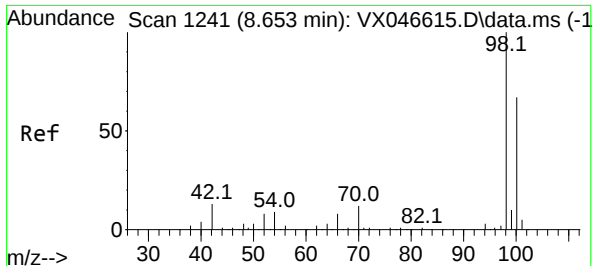
Tgt Ion: 43 Resp: 1766
Ion Ratio Lower Upper
43 100
58 46.5 39.8 59.8
57 30.1 14.5 21.7#



#60
4-Bromofluorobenzene
Concen: 29.523 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion: 95 Resp: 42732
Ion Ratio Lower Upper
95 100
174 69.0 56.0 84.0
176 67.3 52.2 78.4

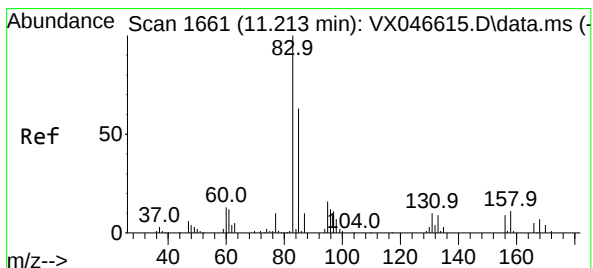
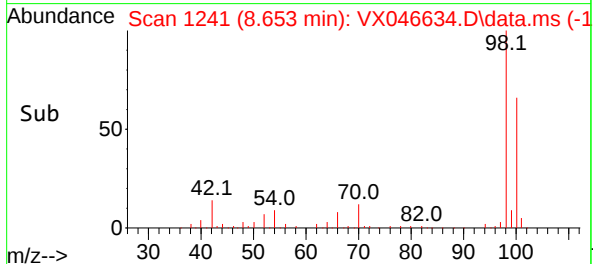
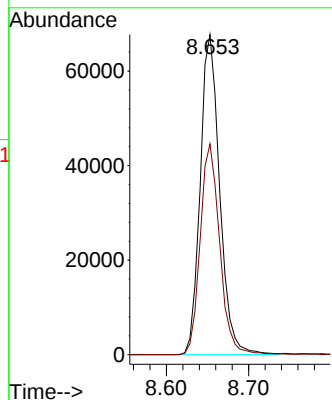
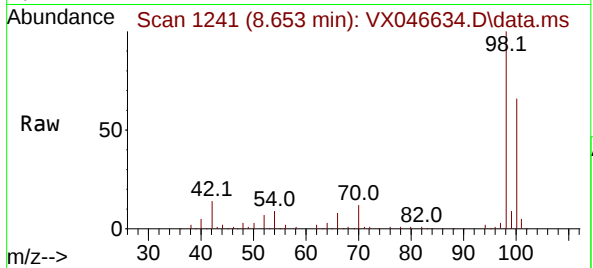




#63
Toluene-d8
Concen: 29.005 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

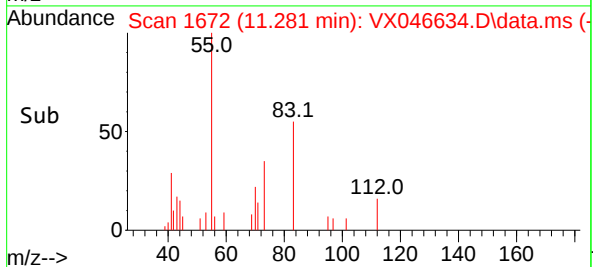
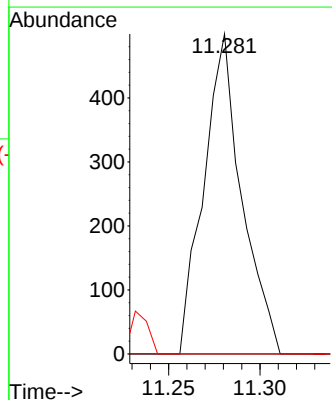
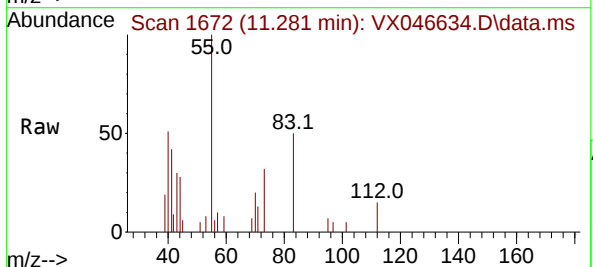
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

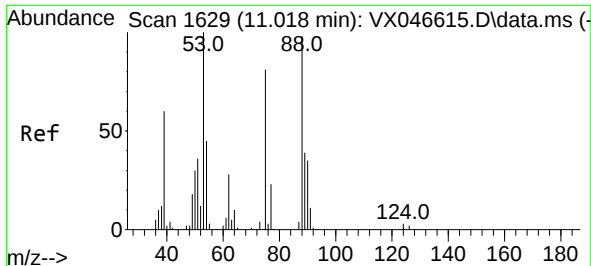
Tgt Ion: 98 Resp: 111256
Ion Ratio Lower Upper
98 100
100 66.2 52.6 79.0



#71
1,1,2,2-Tetrachloroethane
Concen: 0.486 ug/l
RT: 11.281 min Scan# 1672
Delta R.T. 0.067 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion: 83 Resp: 725
Ion Ratio Lower Upper
83 100
131 0.0 5.0 14.9#
85 5.9 31.5 94.5#

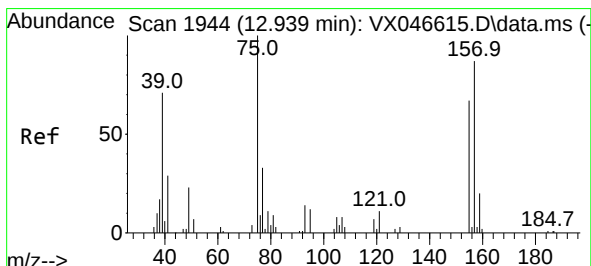
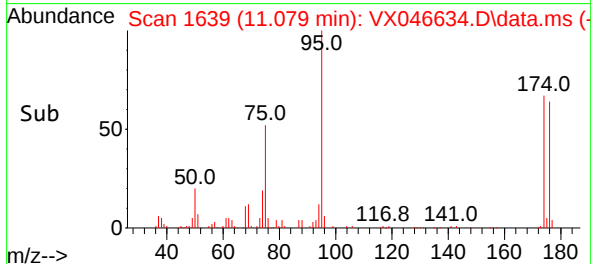
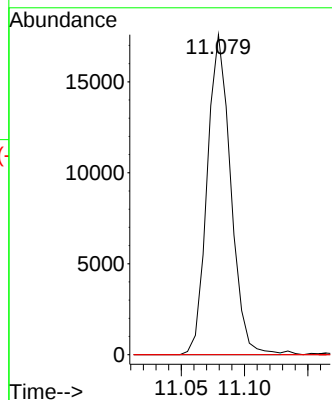
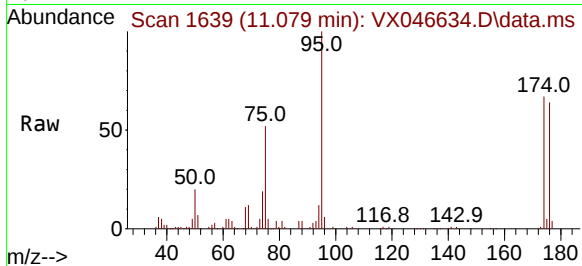




#77
t-1,4-Dichloro-2-butene
Concen: 54.001 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Tgt Ion: 75 Resp: 22720
Ion Ratio Lower Upper
75 100
53 0.0 61.9 185.7#
89 0.0 24.0 72.0#



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.705 ug/l
RT: 12.872 min Scan# 1933
Delta R.T. -0.067 min
Lab File: VX046634.D
Acq: 11 Jun 2025 13:40

Tgt Ion: 75 Resp: 217
Ion Ratio Lower Upper
75 100
155 0.0 59.4 89.2#
157 0.0 75.0 112.6#

