

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031413.D
 Acq On : 16 Sep 2022 16:26
 Operator : JC/MD
 Sample : N4671-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Sep 17 01:49:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

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

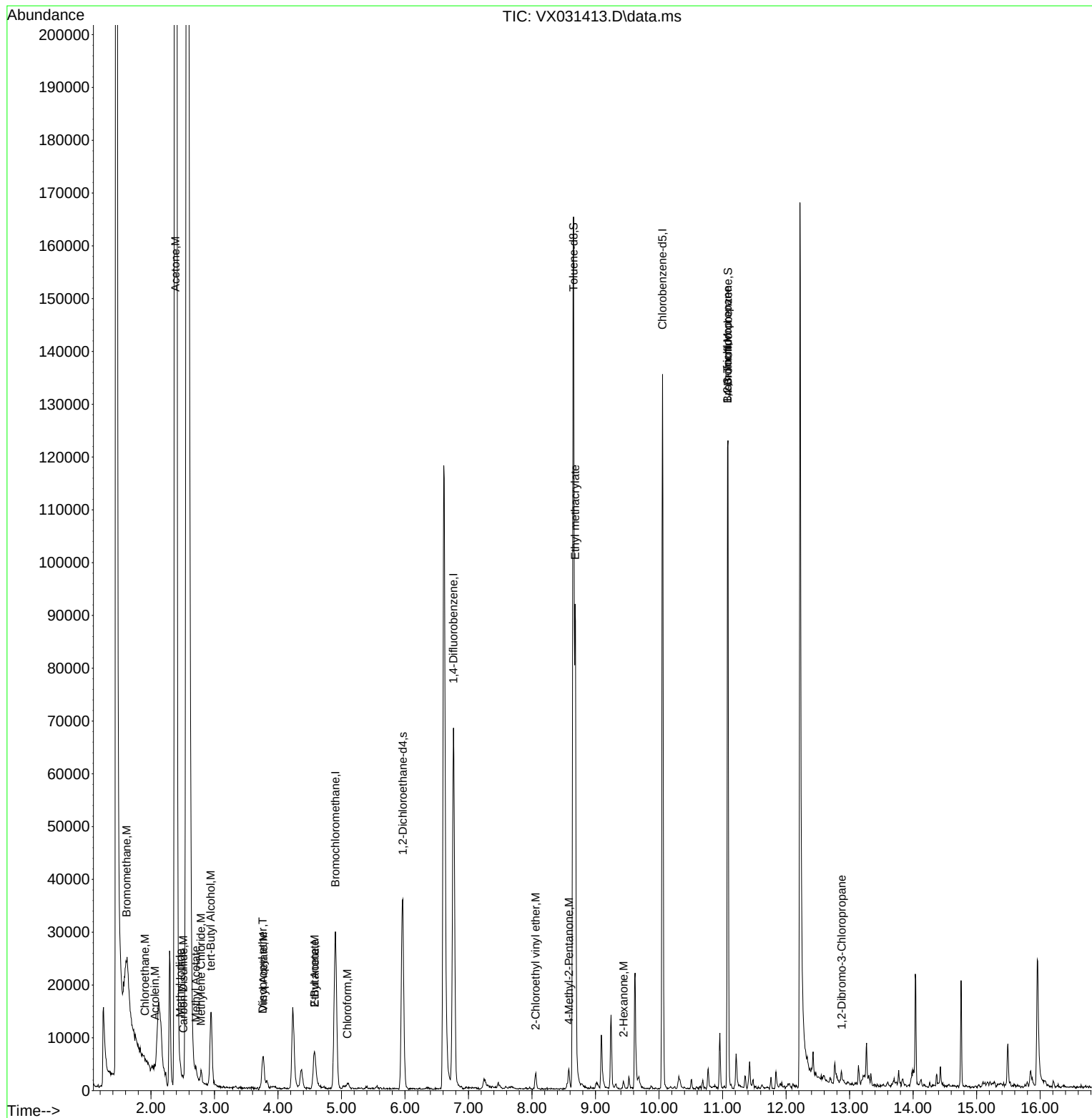
Internal Standards						
1) Bromochloromethane	4.903	128	11582	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	67402	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	58700	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	32708	31.347	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.500%
60) 4-Bromofluorobenzene	11.085	95	28405	24.003	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.000%
63) Toluene-d8	8.653	98	94587	29.436	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.133%
Target Compounds						
					Qvalue	
5) Bromomethane	1.617	94	548	0.413	ug/l #	76
6) Chloroethane	1.904	64	281	0.238	ug/l	92
11) Methyl Iodide	2.459	142	252	0.271	ug/l #	40
12) Methyl Acetate	2.709	43	3564	2.976	ug/l #	88
13) Acrolein	2.063	56	44	0.277	ug/l	94
15) Acetone	2.386	58	566491	4139.831	ug/l	96
16) Carbon Disulfide	2.508	76	520	0.259	ug/l #	75
18) Methylene Chloride	2.788	84	872	0.968	ug/l #	82
20) Diisopropyl ether	3.757	45	6614	2.232	ug/l #	70
23) tert-Butyl Alcohol	2.940	59	8951	35.584	ug/l #	100
25) Chloroform	5.092	83	1242	0.697	ug/l #	84
30) 2-Butanone	4.574	43	8268	10.802	ug/l #	94
42) Vinyl Acetate	3.770	43	4002	1.457	ug/l #	72
43) Ethyl Acetate	4.574	43	8268	5.510	ug/l	97
51) Ethyl methacrylate	8.677	69	1325	0.791	ug/l #	1
55) 2-Chloroethyl vinyl ether	8.055	63	243	0.283	ug/l #	1
56) Bromoform	11.079	173	271	0.290	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	2658	1.890	ug/l #	90
59) 2-Hexanone	9.439	43	903	0.838	ug/l #	71
72) 1,2,3-Trichloropropane	11.079	75	16297	11.251	ug/l	38
88) 1,2-Dibromo-3-Chloropr...	12.878	75	134	0.399	ug/l #	1

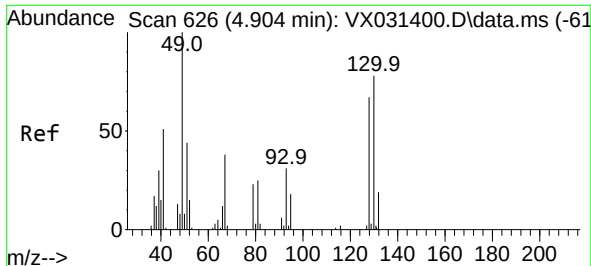
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
Data File : VX031413.D
Acq On : 16 Sep 2022 16:26
Operator : JC/MD
Sample : N4671-01 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Quant Time: Sep 17 01:49:05 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 16 12:41:56 2022
Response via : Initial Calibration

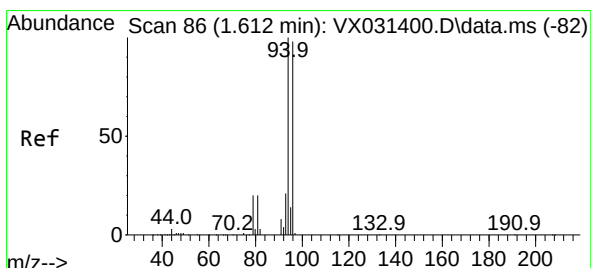
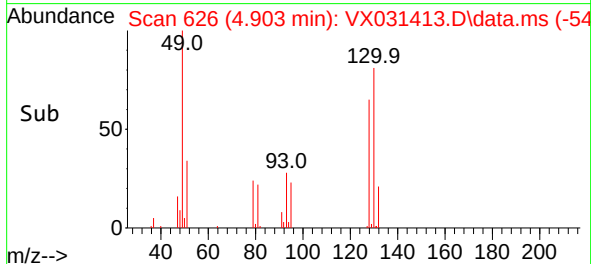
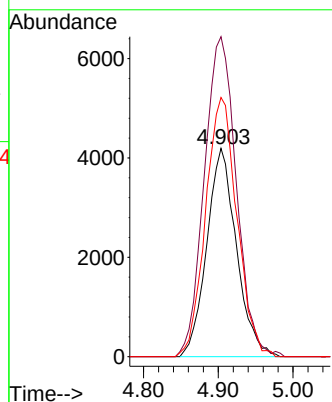
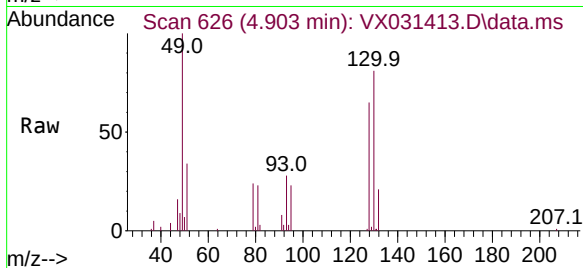




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

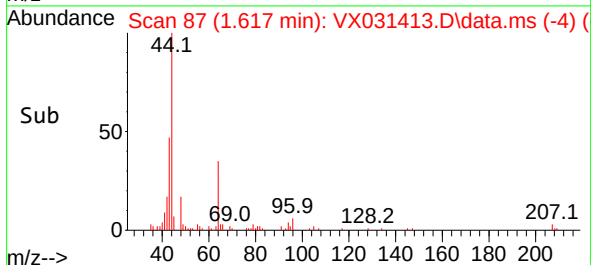
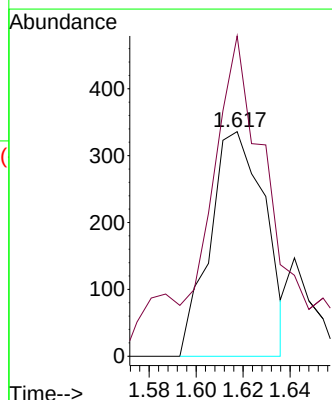
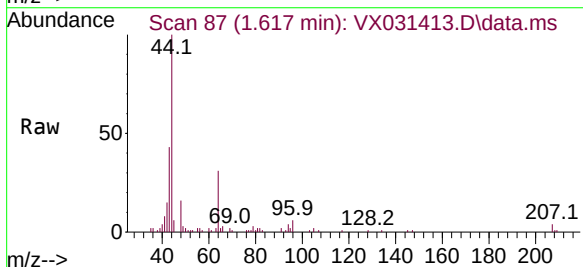
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

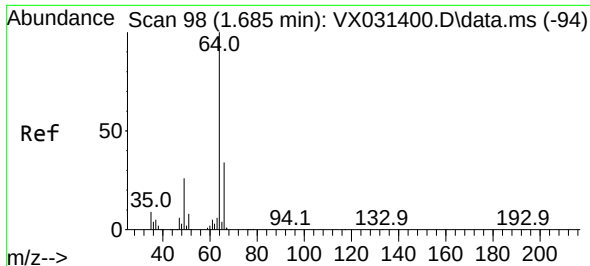
Tgt Ion:128 Resp: 11582
Ion Ratio Lower Upper
128 100
49 165.2 0.0 358.3
130 131.0 0.0 319.3



#5
Bromomethane
Concen: 0.413 ug/l
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 94 Resp: 548
Ion Ratio Lower Upper
94 100
96 119.9 77.0 115.6#

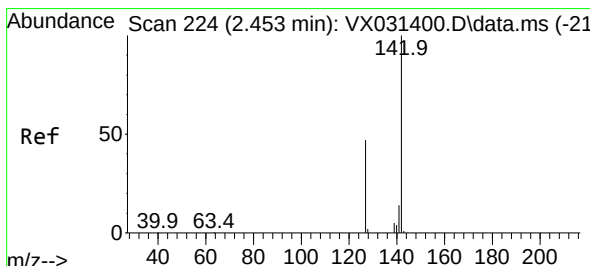
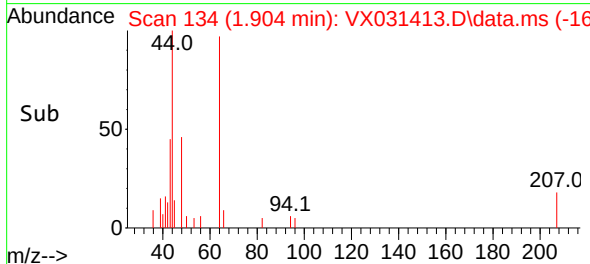
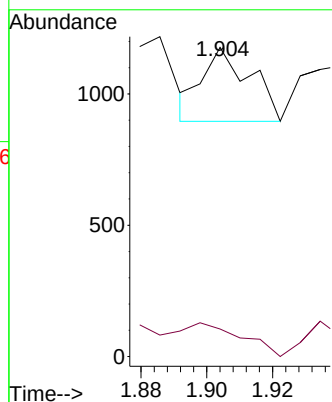
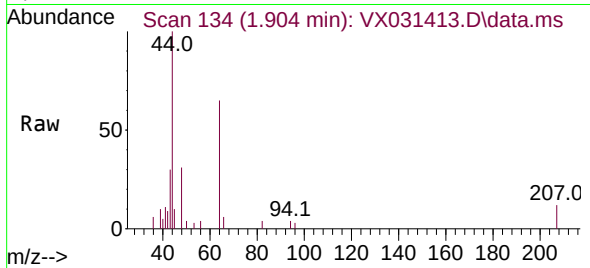




#6
Chloroethane
Concen: 0.238 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.219 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

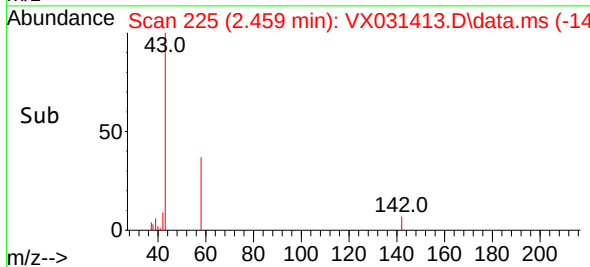
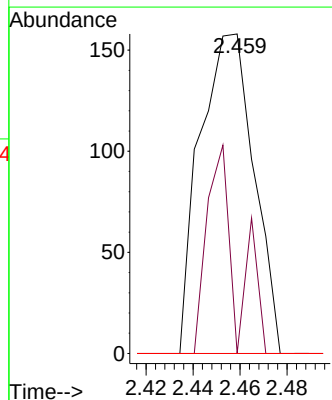
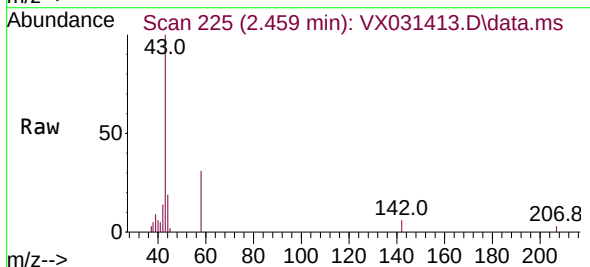
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

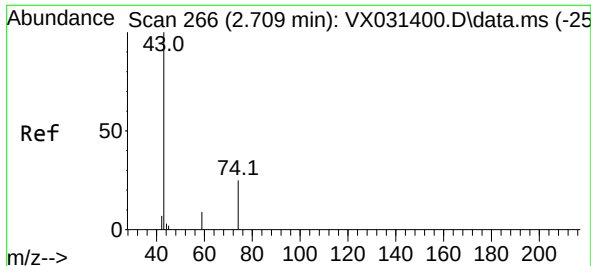
Tgt Ion: 64 Resp: 281
Ion Ratio Lower Upper
64 100
66 37.4 26.4 39.6



#11
Methyl Iodide
Concen: 0.271 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 142 Resp: 252
Ion Ratio Lower Upper
142 100
127 0.0 22.3 66.9#
141 0.0 7.0 20.9#

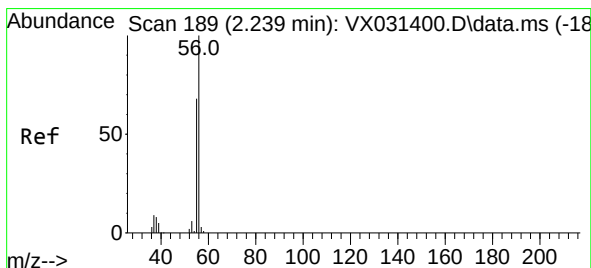
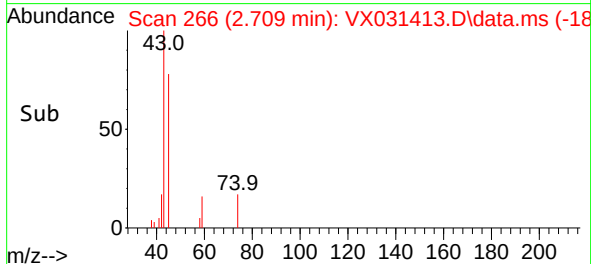
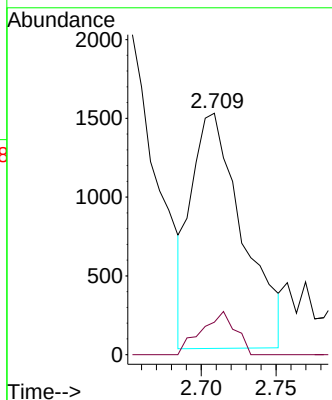
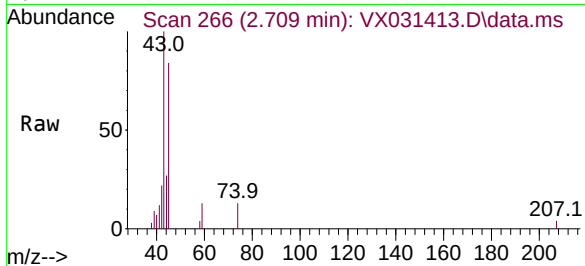




#12
Methyl Acetate
Concen: 2.976 ug/l
RT: 2.709 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

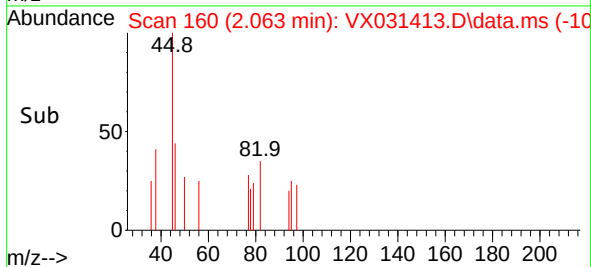
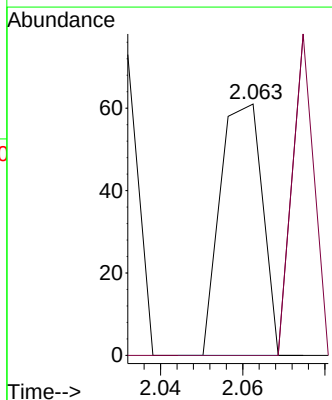
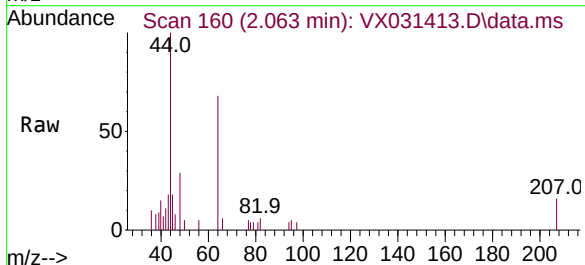
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

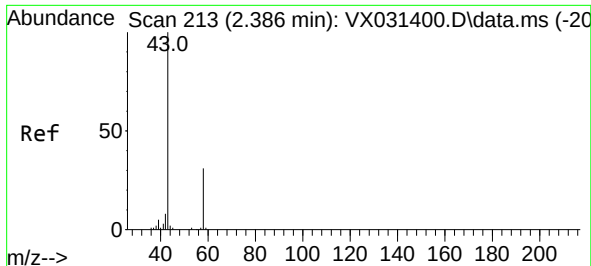
Tgt Ion: 43 Resp: 3564
Ion Ratio Lower Upper
43 100
74 21.5 22.1 33.1#



#13
Acrolein
Concen: 0.277 ug/l
RT: 2.063 min Scan# 160
Delta R.T. -0.177 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 56 Resp: 44
Ion Ratio Lower Upper
56 100
55 65.9 56.4 84.6

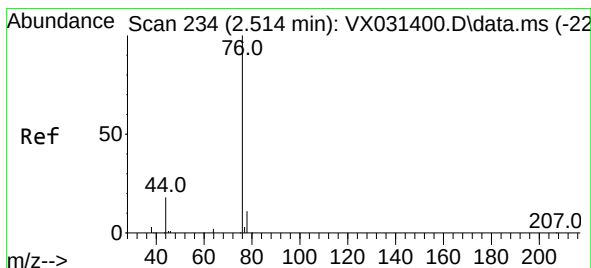
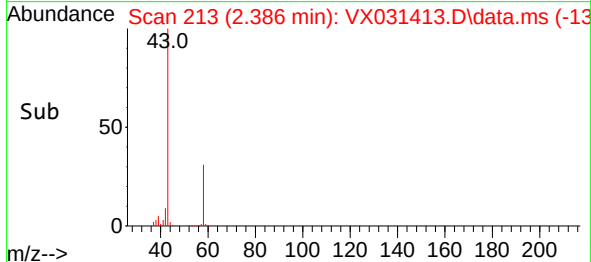
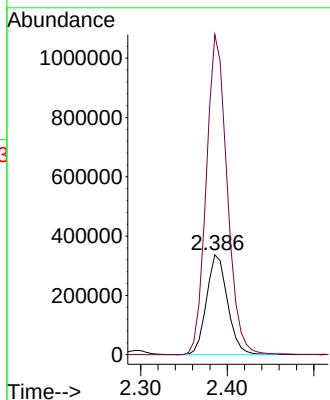
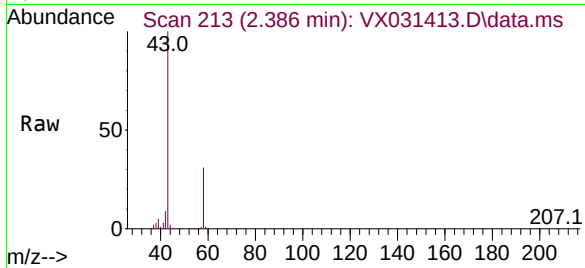




#15
Acetone
Concen: 4139.831 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

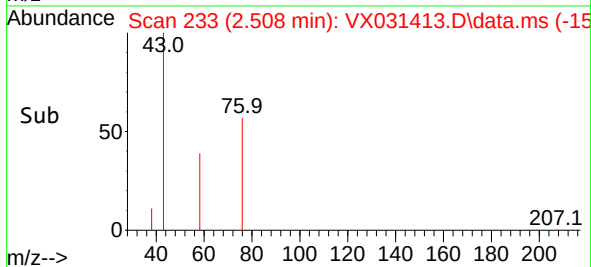
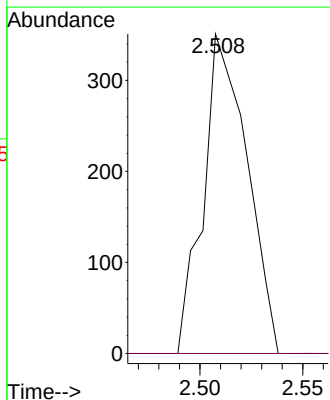
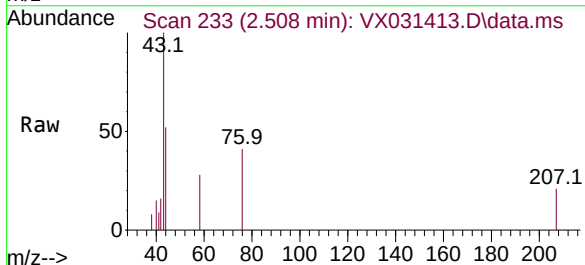
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

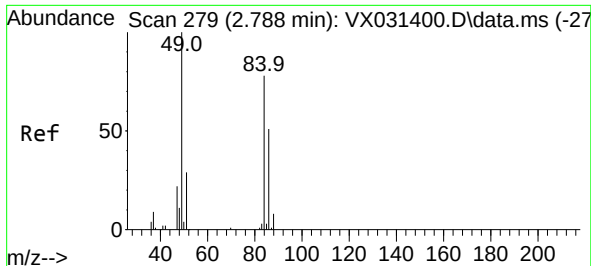
Tgt Ion: 58 Resp: 566491
Ion Ratio Lower Upper
58 100
43 320.6 250.2 375.2



#16
Carbon Disulfide
Concen: 0.259 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

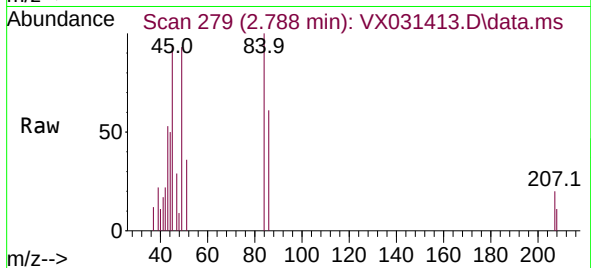
Tgt Ion: 76 Resp: 520
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



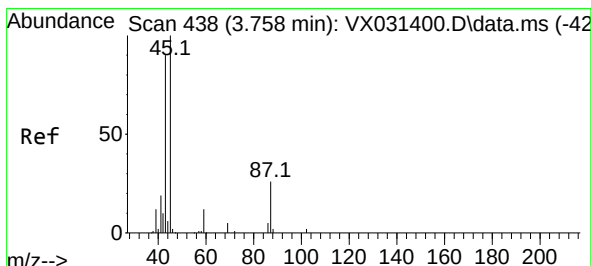
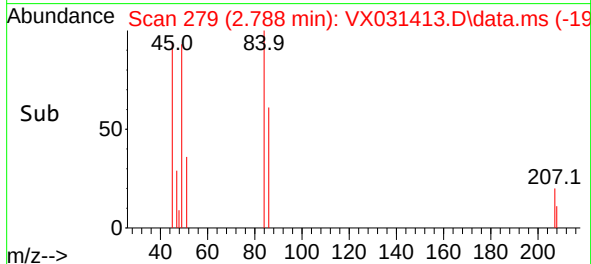
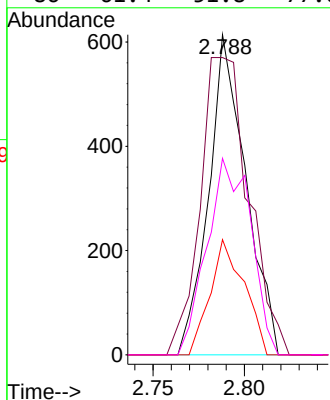


#18
Methylene Chloride
Concen: 0.968 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

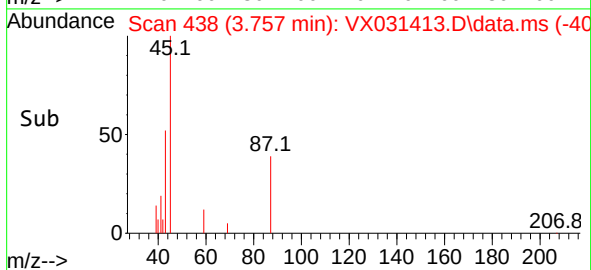
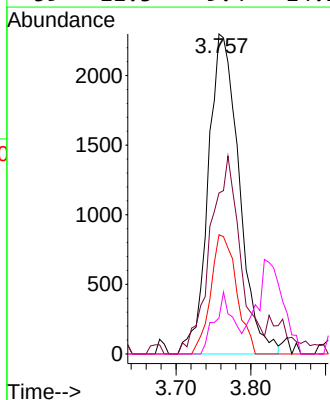
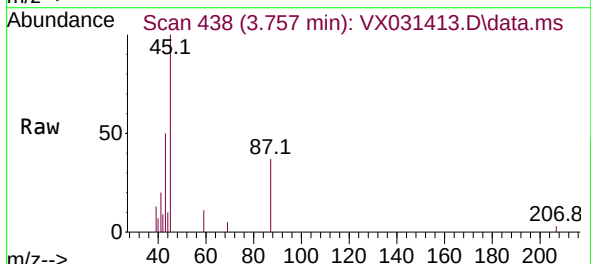


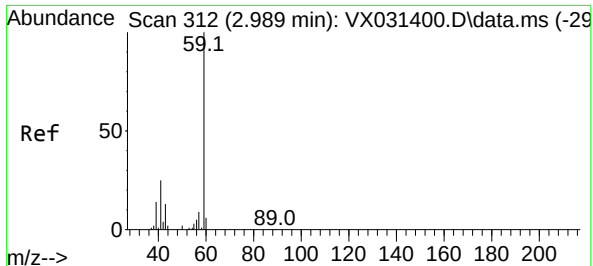
Tgt Ion: 84	Resp: 872
Ion Ratio	Lower Upper
84 100	
49 83.7	94.2 141.2#
51 36.0	29.2 43.8
86 61.4	51.8 77.6



#20
Diisopropyl ether
Concen: 2.232 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 45	Resp: 6614
Ion Ratio	Lower Upper
45 100	
43 50.3	70.3 105.5#
87 37.2	24.5 36.7#
59 11.3	9.4 14.2

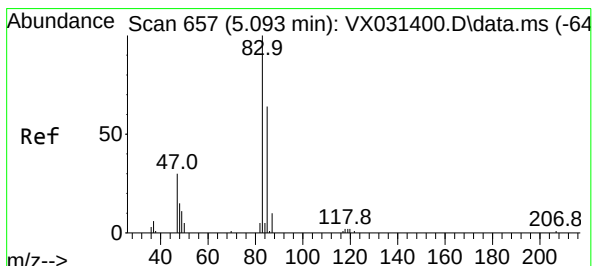
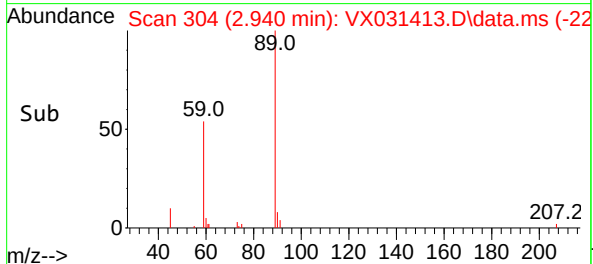
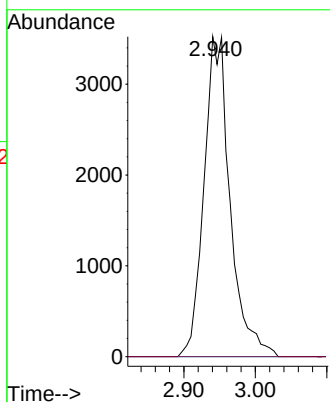
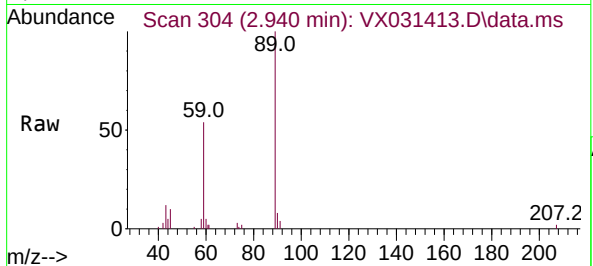




#23
tert-Butyl Alcohol
Concen: 35.584 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.037 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

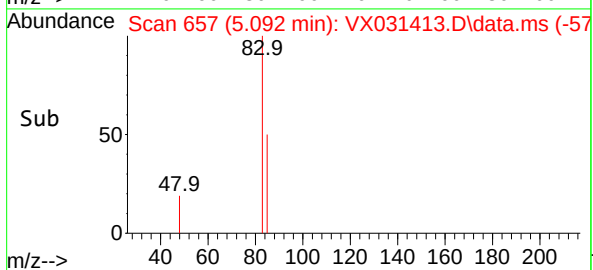
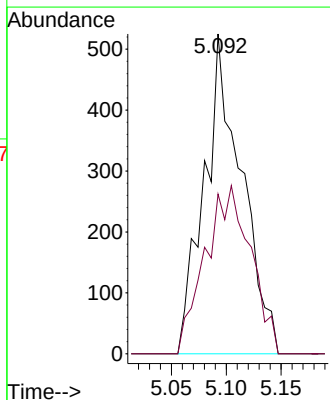
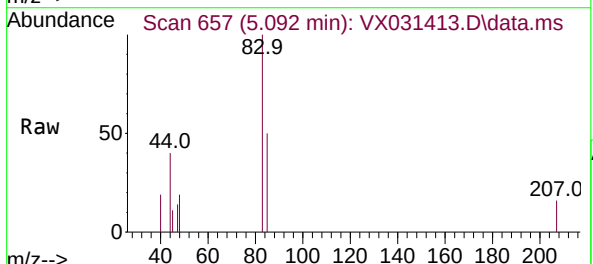
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

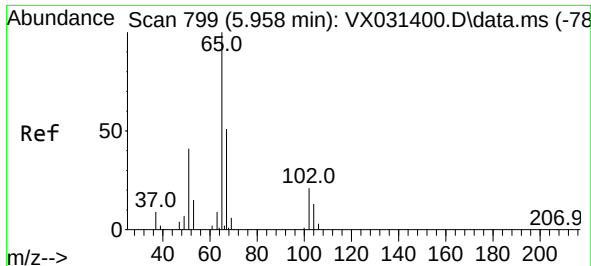
Tgt Ion: 59 Resp: 8951
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.697 ug/l
RT: 5.092 min Scan# 657
Delta R.T. -0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 83 Resp: 1242
Ion Ratio Lower Upper
83 100
85 49.9 49.9 74.9#





#27

1,2-Dichloroethane-d4

Concen: 31.347 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

Instrument :

MSVOA_X

ClientSampleId :

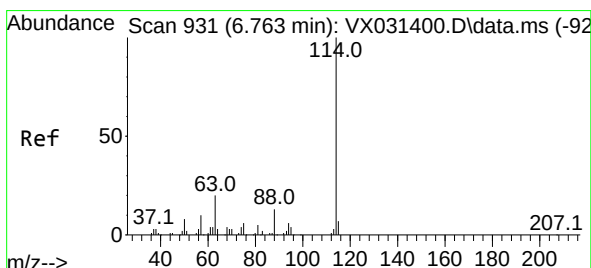
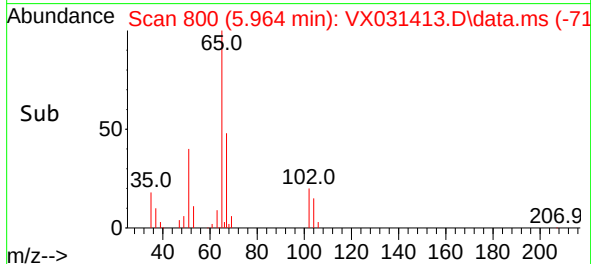
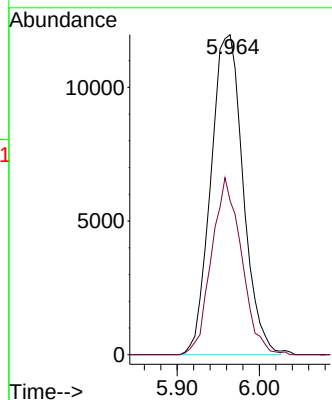
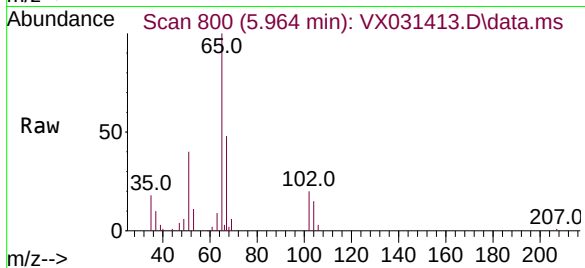
EFF-WW

Tgt Ion: 65 Resp: 32708

Ion Ratio Lower Upper

65 100

67 51.4 42.3 63.5



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

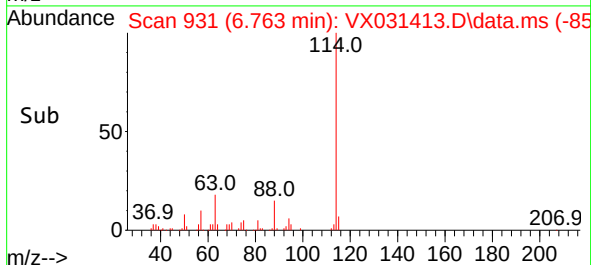
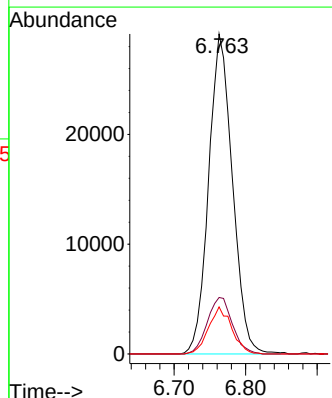
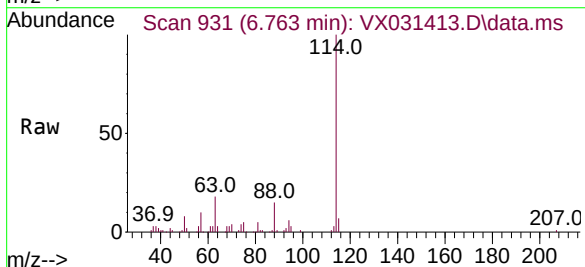
Tgt Ion: 114 Resp: 67402

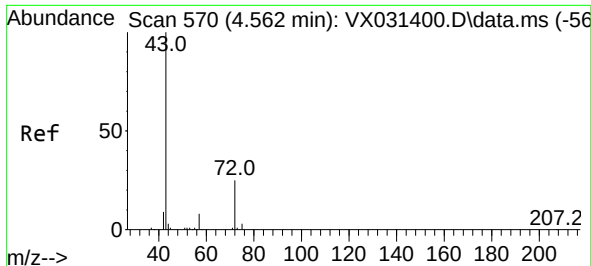
Ion Ratio Lower Upper

114 100

63 18.5 15.3 22.9

88 14.3 12.2 18.4





#30

2-Butanone

Concen: 10.802 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

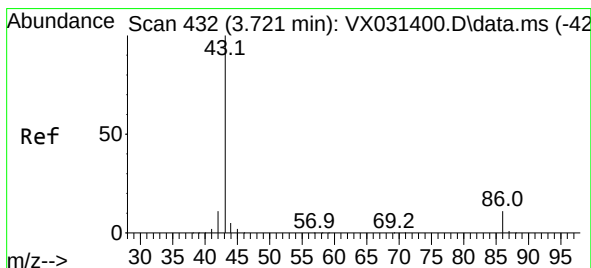
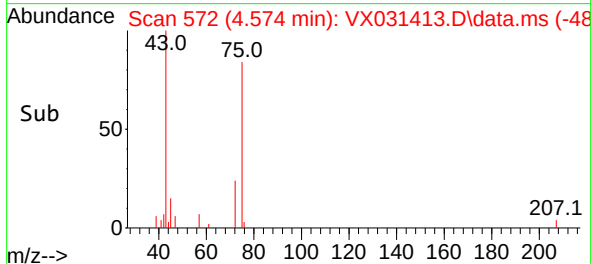
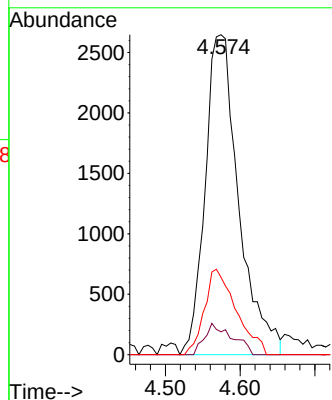
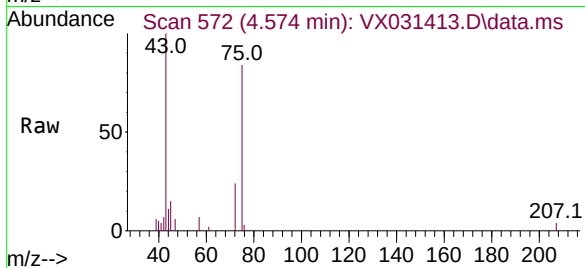
Tgt Ion: 43 Resp: 8268

Ion Ratio Lower Upper

43 100

57 4.6 6.6 10.0#

72 25.3 22.1 33.1



#42

Vinyl Acetate

Concen: 1.457 ug/l

RT: 3.770 min Scan# 440

Delta R.T. 0.043 min

Lab File: VX031413.D

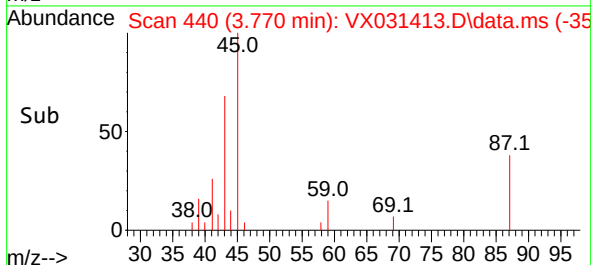
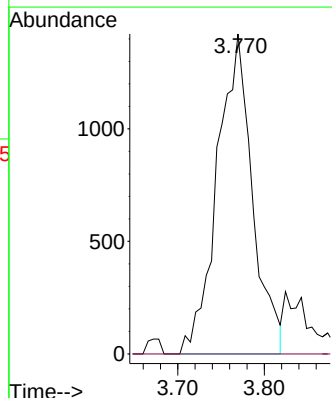
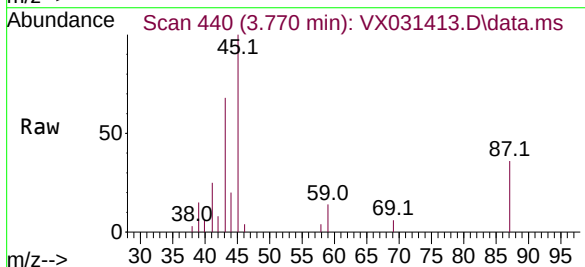
Acq: 16 Sep 2022 16:26

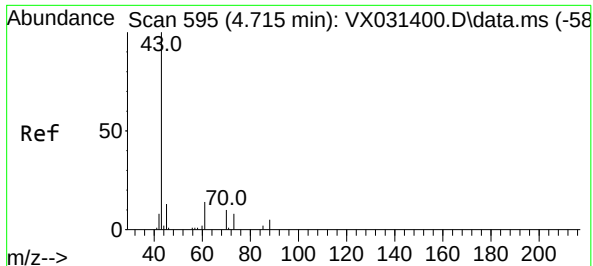
Tgt Ion: 43 Resp: 4002

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#





#43

Ethyl Acetate

Concen: 5.510 ug/l

RT: 4.574 min Scan# 51

Delta R.T. -0.140 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

Instrument :

MSVOA_X

ClientSampleId :

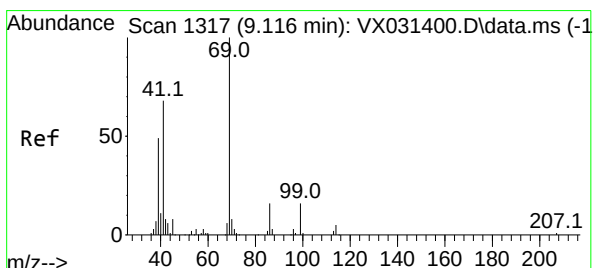
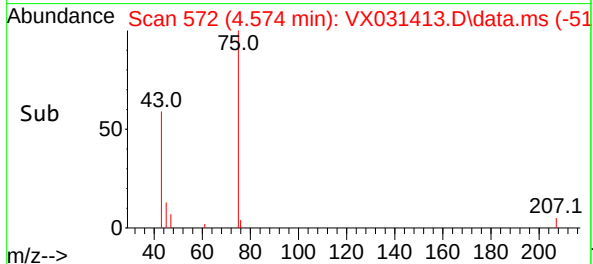
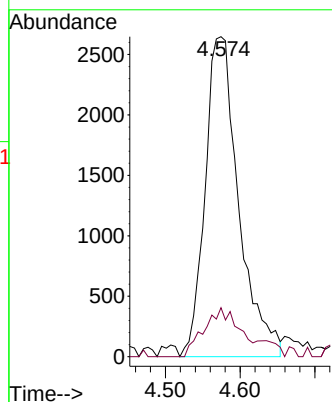
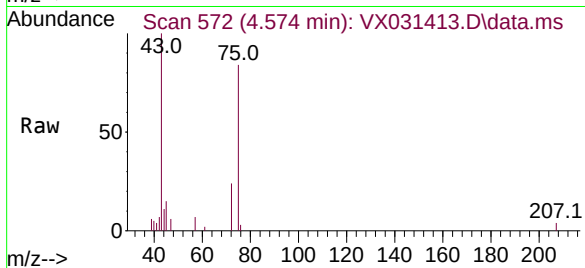
EFF-WW

Tgt Ion: 43 Resp: 8268

Ion Ratio Lower Upper

43 100

45 15.7 11.8 17.6



#51

Ethyl methacrylate

Concen: 0.791 ug/l

RT: 8.677 min Scan# 1245

Delta R.T. -0.439 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

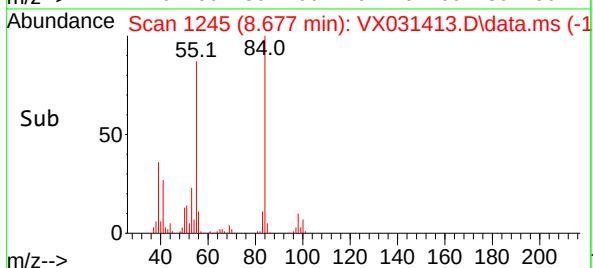
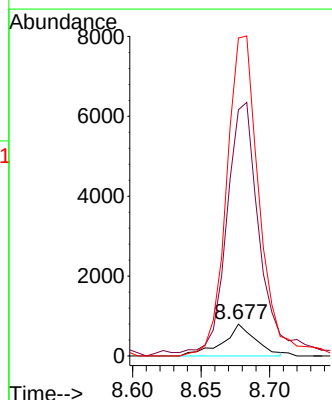
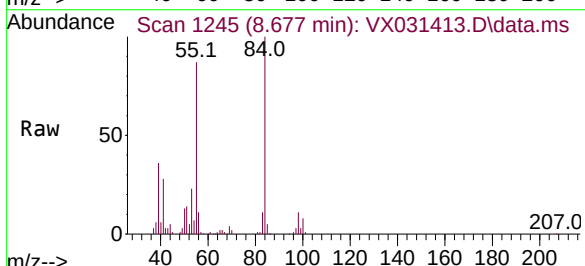
Tgt Ion: 69 Resp: 1325

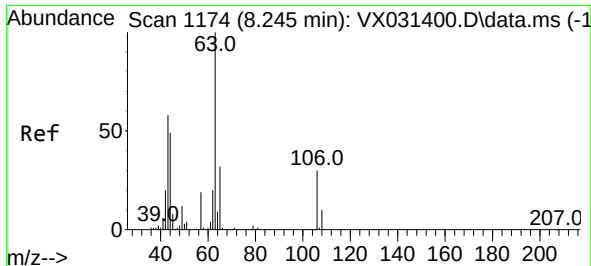
Ion Ratio Lower Upper

69 100

41 763.6 32.1 96.5#

39 1000.3 18.3 54.9#

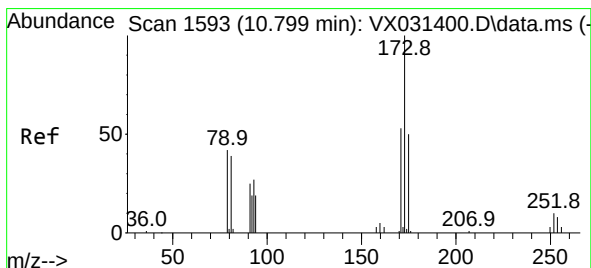
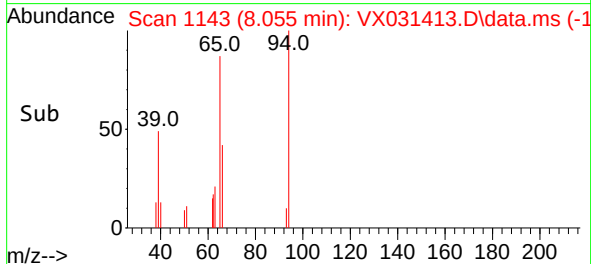
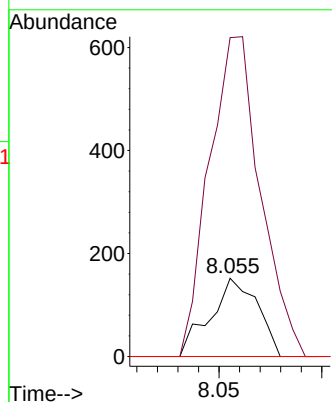
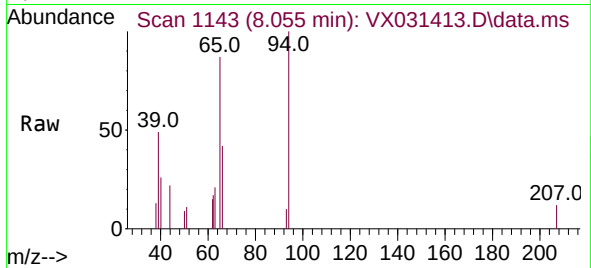




#55
2-Chloroethyl vinyl ether
Concen: 0.283 ug/l
RT: 8.055 min Scan# 1174
Delta R.T. -0.189 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

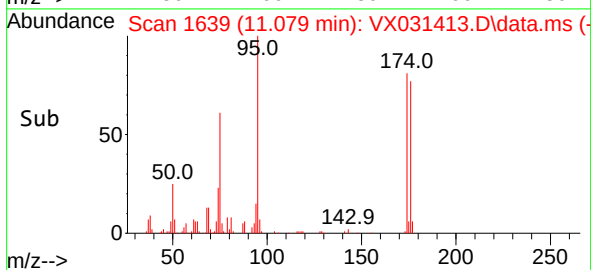
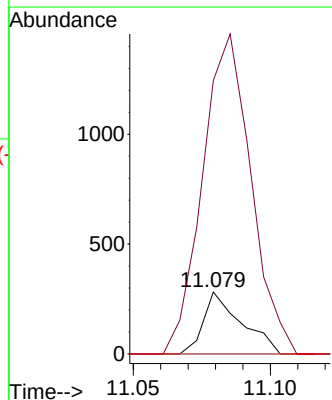
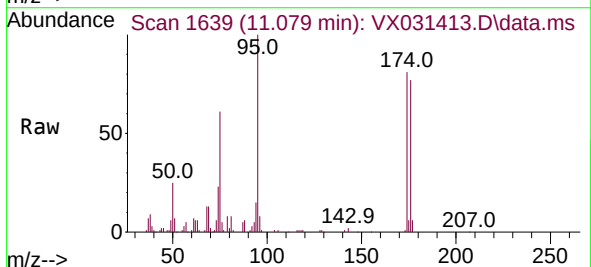
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

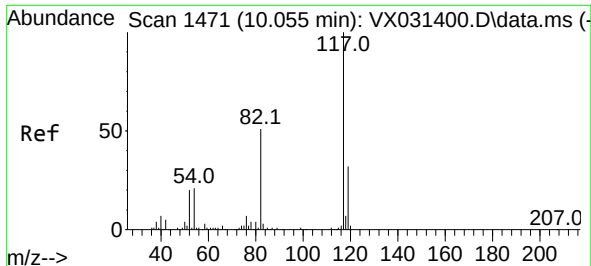
Tgt Ion: 63 Resp: 243
Ion Ratio Lower Upper
63 100
65 442.4 25.9 38.9#
106 0.0 25.8 38.6#



#56
Bromoform
Concen: 0.290 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 173 Resp: 271
Ion Ratio Lower Upper
173 100
175 661.6 40.3 60.5#
254 0.0 7.4 11.2#

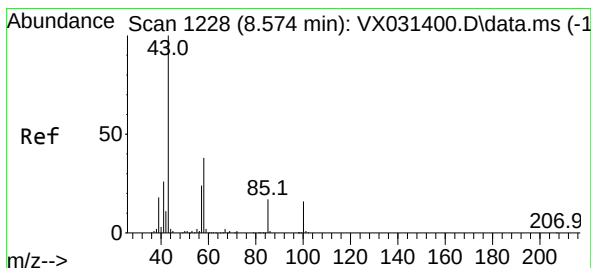
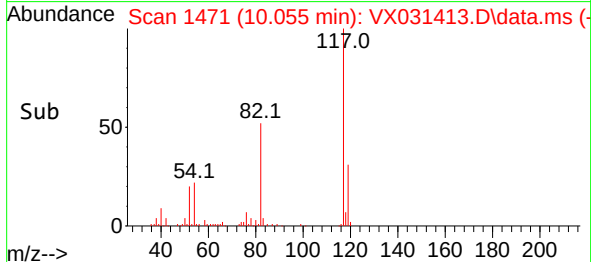
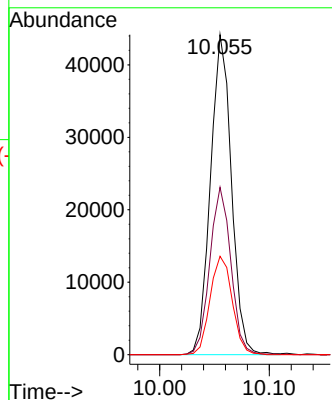
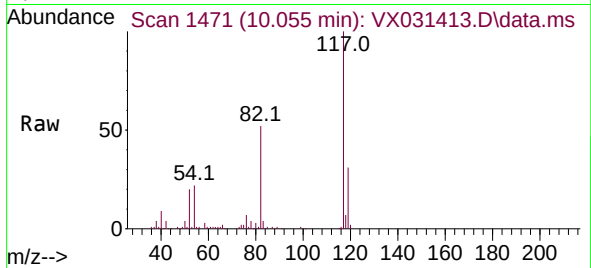




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

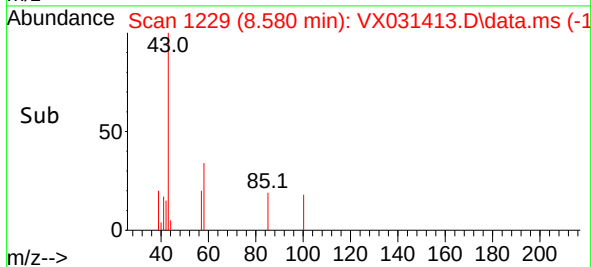
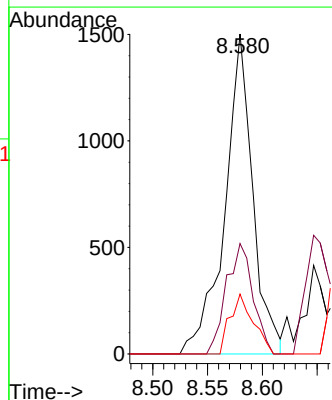
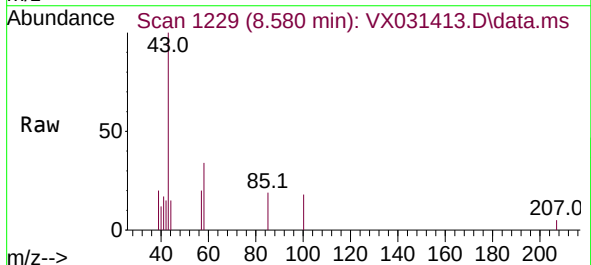
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

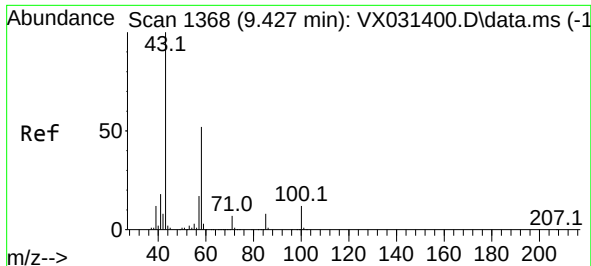
Tgt Ion: 117 Resp: 58700
Ion Ratio Lower Upper
117 100
82 52.7 42.3 63.5
119 32.5 26.2 39.2



#58
4-Methyl-2-Pentanone
Concen: 1.890 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 43 Resp: 2658
Ion Ratio Lower Upper
43 100
58 33.0 31.8 47.6
85 15.6 15.8 23.6#





#59

2-Hexanone

Concen: 0.838 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

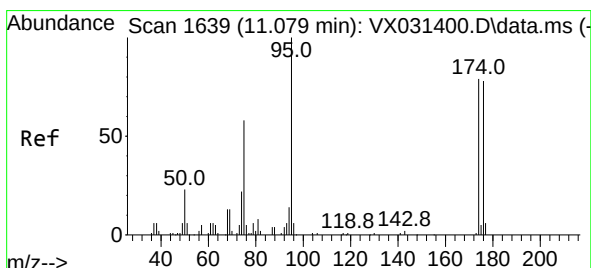
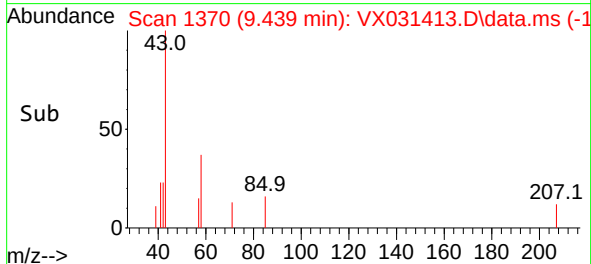
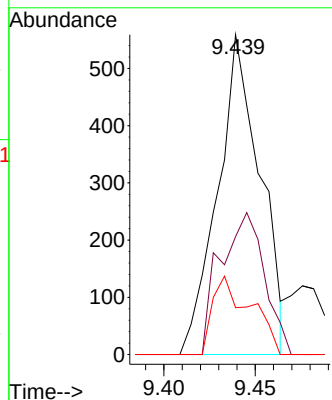
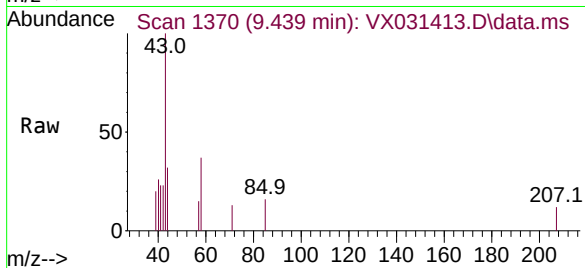
Tgt Ion: 43 Resp: 903

Ion Ratio Lower Upper

43 100

58 32.7 44.1 66.1#

57 9.1 16.2 24.2#



#60

4-Bromofluorobenzene

Concen: 24.003 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX031413.D

Acq: 16 Sep 2022 16:26

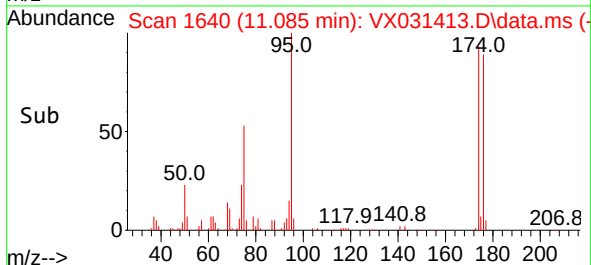
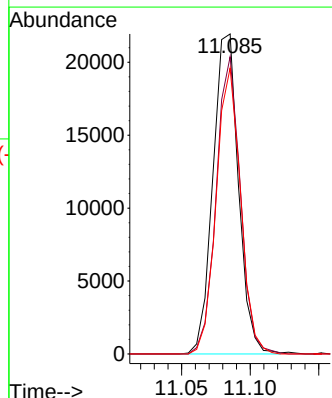
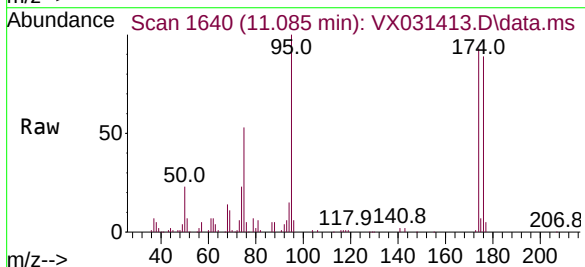
Tgt Ion: 95 Resp: 28405

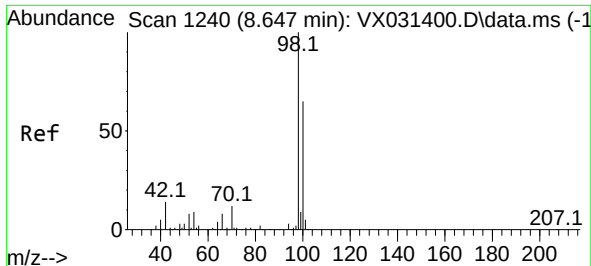
Ion Ratio Lower Upper

95 100

174 87.6 65.4 98.2

176 85.0 63.4 95.0

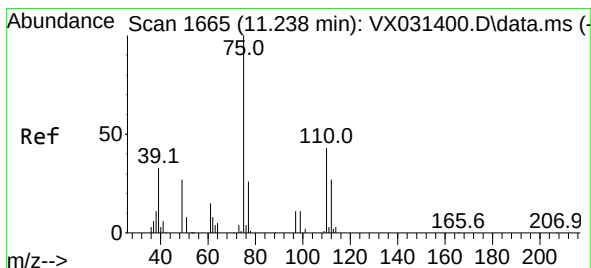
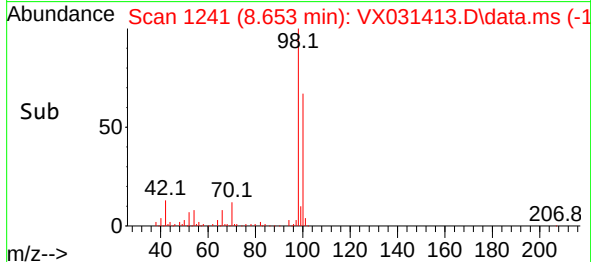
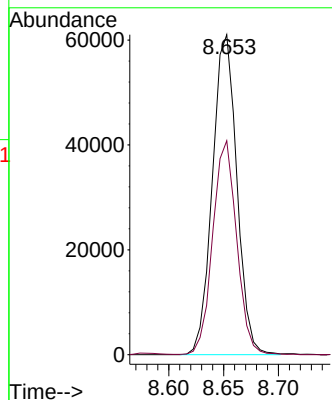
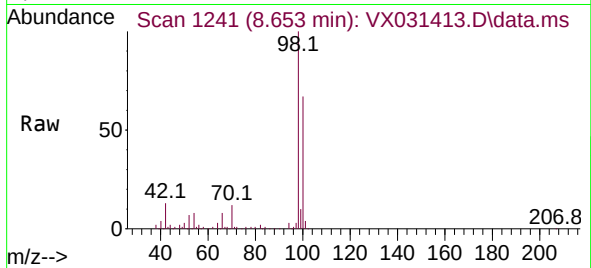




#63
Toluene-d8
Concen: 29.436 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

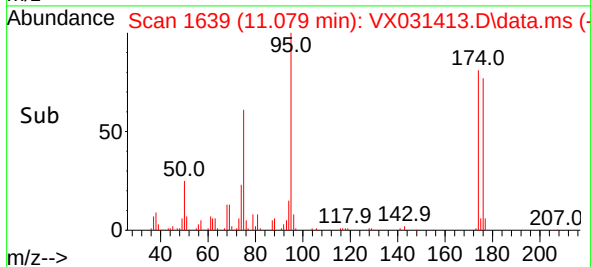
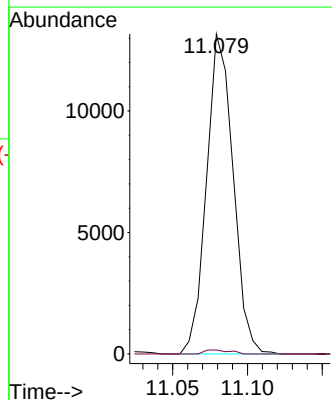
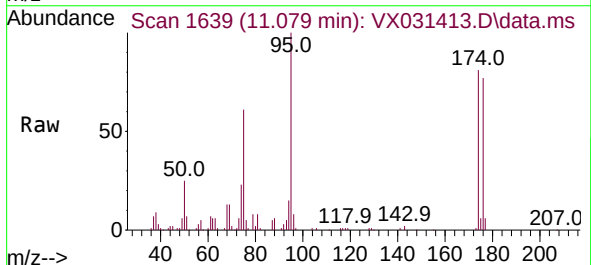
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

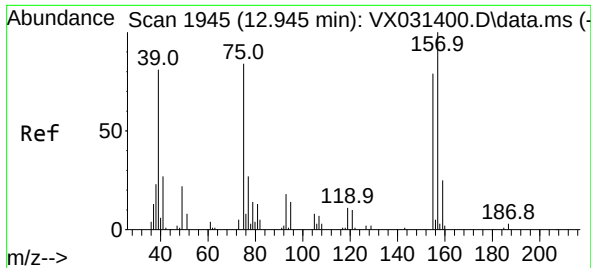
Tgt Ion: 98 Resp: 94587
Ion Ratio Lower Upper
98 100
100 65.6 51.4 77.2



#72
1,2,3-Trichloropropane
Concen: 11.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX031413.D
Acq: 16 Sep 2022 16:26

Tgt Ion: 75 Resp: 16297
Ion Ratio Lower Upper
75 100
77 1.2 0.0 78.6





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.399 ug/l

RT: 12.878 min Scan# 19

Delta R.T. -0.061 min

Lab File: VX031413.D

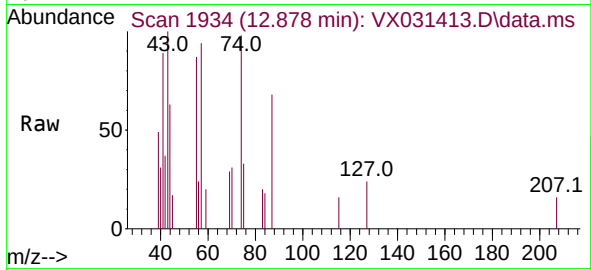
Acq: 16 Sep 2022 16:26

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW



Tgt Ion: 75 Resp: 134

Ion Ratio Lower Upper

75 100

155 0.0 74.3 111.5#

157 0.0 97.3 145.9#

