

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011620\  
 Data File : VX014634.D  
 Acq On : 16 Jan 2020 13:37  
 Operator : JC/SP  
 Sample : L1135-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TE-MW-A-1

Quant Time: Jan 17 05:54:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jan 15 12:41:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 70692    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 382996   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 342076   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4   | 6.05   | 65    | 156209   | 31.44    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 104.80% |
| 60) 4-Bromofluorobenzene    | 11.13  | 95    | 144082   | 26.32    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 87.73%  |
| 63) Toluene-d8              | 8.71   | 98    | 457700   | 29.62    | ug/l | 0.00    |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 98.73%  |

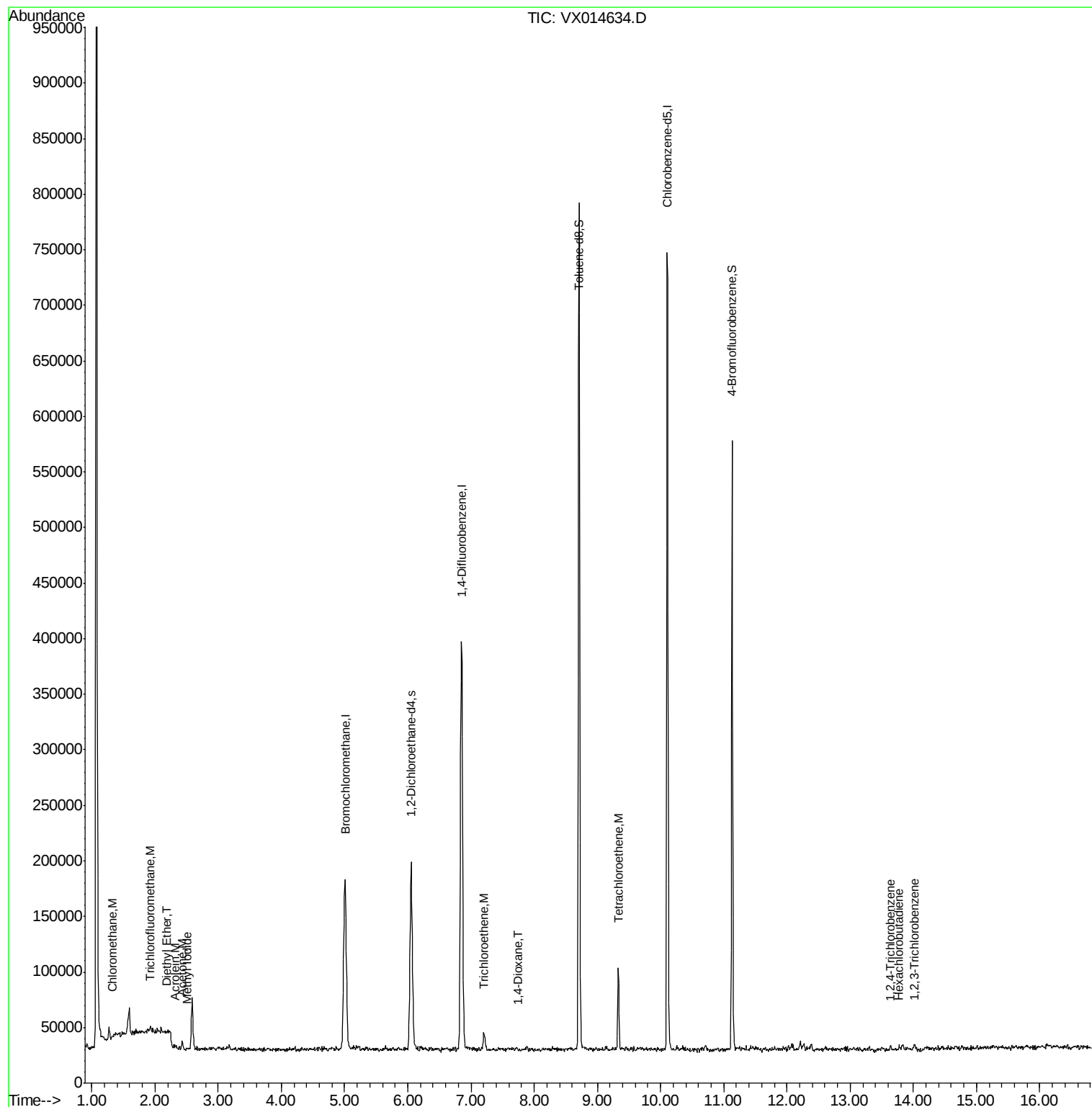
| Target Compounds           |       |     |       |              | Ovalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane           | 1.32  | 50  | 1499  | 0.280 ug/l   | 99     |
| 7) Trichlorofluoromethane  | 1.93  | 101 | 2883  | 0.434 ug/l # | 76     |
| 8) Diethyl Ether           | 2.19  | 74  | 816   | 0.281 ug/l   | 59     |
| 11) Methyl Iodide          | 2.51  | 142 | 2809  | 0.535 ug/l # | 76     |
| 13) Acrolein               | 2.31  | 56  | 334   | 0.450 ug/l   | 100    |
| 15) Acetone                | 2.42  | 58  | 1591  | 1.962 ug/l   | 87     |
| 37) Trichloroethene        | 7.22  | 130 | 6914  | 1.455 ug/l   | 83     |
| 45) 1,4-Dioxane            | 7.75  | 88  | 227   | 2.184 ug/l # | 1      |
| 61) Tetrachloroethene      | 9.33  | 164 | 14845 | 2.936 ug/l   | 95     |
| 89) 1,2,4-Trichlorobenzene | 13.64 | 180 | 1701  | 0.286 ug/l   | 90     |
| 90) Hexachlorobutadiene    | 13.78 | 225 | 789   | 0.265 ug/l   | 79     |
| 92) 1,2,3-Trichlorobenzene | 14.01 | 180 | 1593  | 0.263 ug/l   | 94     |

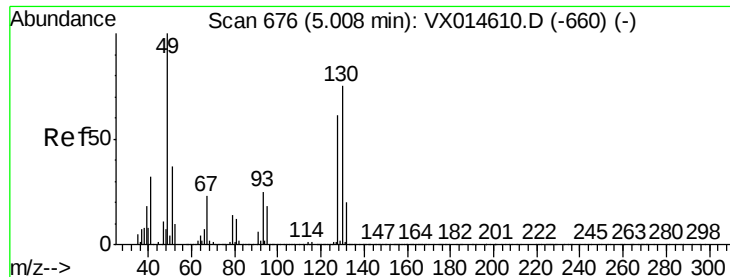
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX011620\  
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MSVOA\_X  
ClientSampleId :  
TE-MW-A-1

Quant Time: Jan 17 05:54:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jan 15 12:41:12 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014634.D

Acq: 16 Jan 2020 13:37

Instrument :

MSVOA\_X

ClientSampleId :

TE-MW-A-1

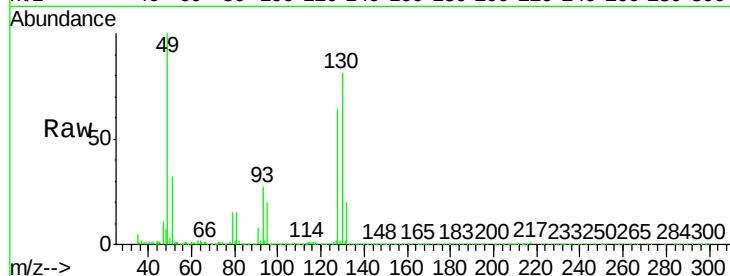
Tot Ion:128 Resp: 70692

Ion Ratio Lower Upper

128 100

49 159.4 0.0 405.0

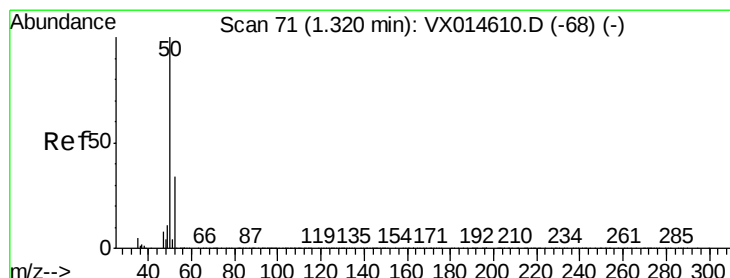
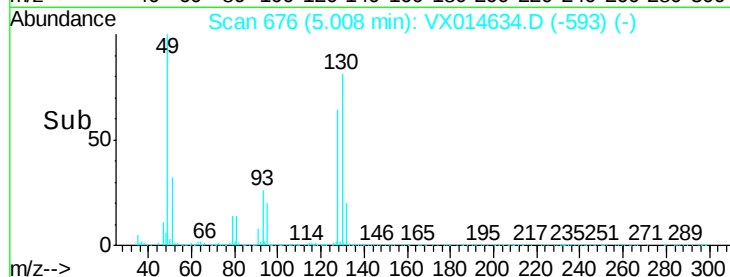
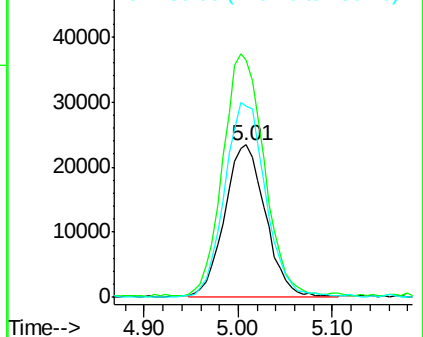
130 129.2 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.280 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014634.D

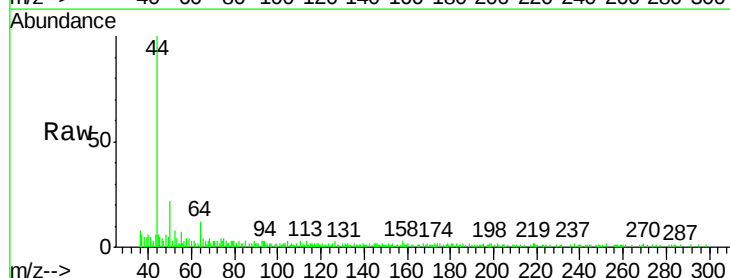
Acq: 16 Jan 2020 13:37

Tgt Ion: 50 Resp: 1499

Ion Ratio Lower Upper

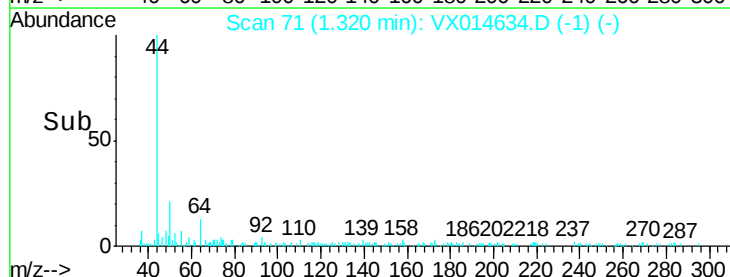
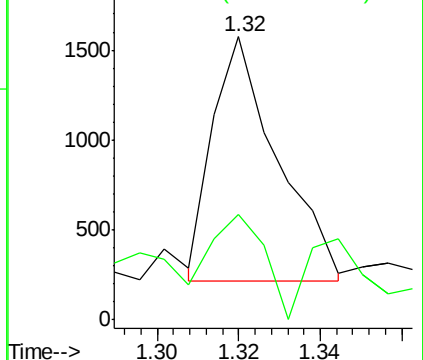
50 100

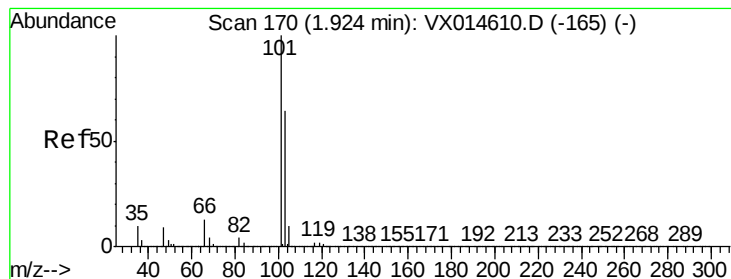
52 30.1 24.3 36.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



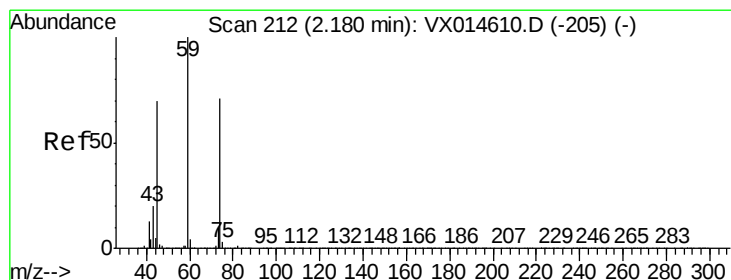
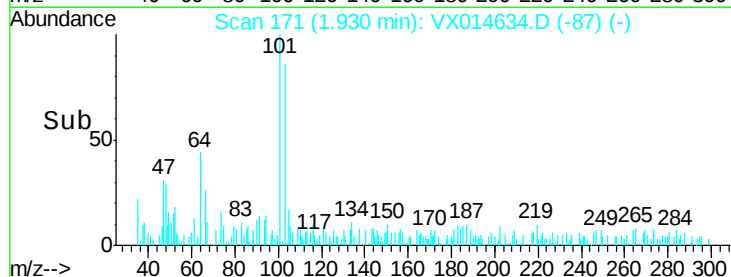
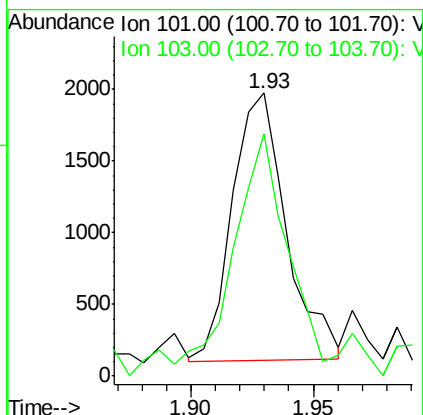
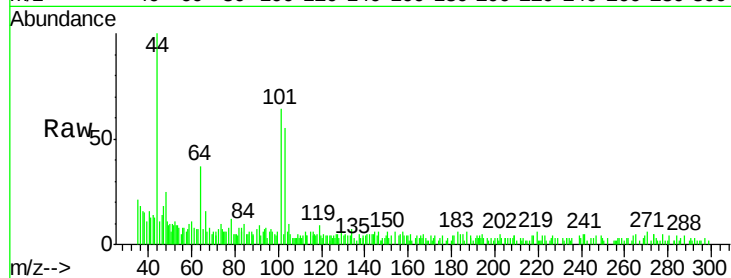


#7

Trichlorofluoromethane  
Concen: 0.434 ug/l  
RT: 1.93 min Scan# 171  
Delta R.T. 0.01 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Instrument :  
MSVOA\_X  
ClientSampleId :  
TE-MW-A-1

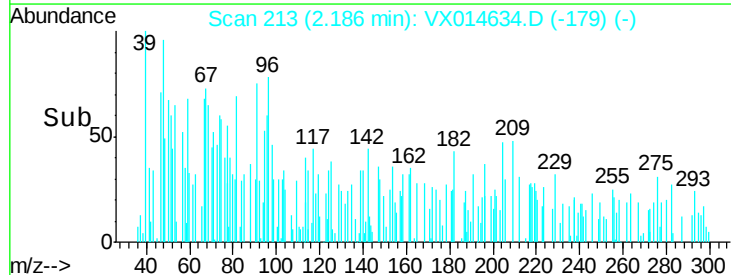
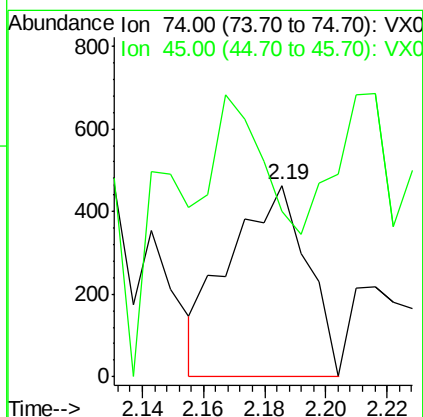
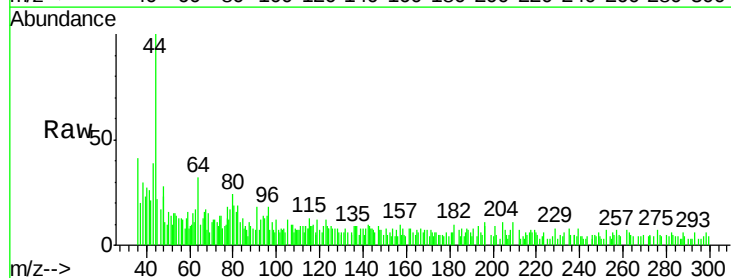
Tot Ion:101 Resp: 2883  
Ion Ratio Lower Upper  
101 100  
103 83.5 51.6 77.4#

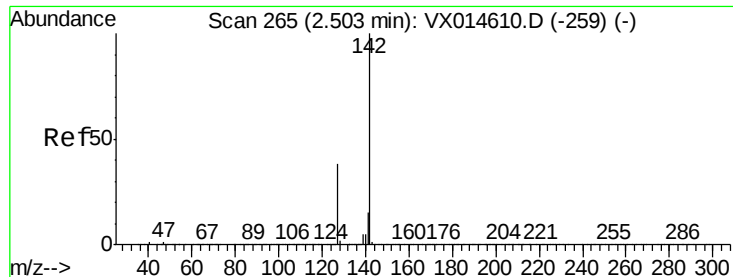


#8

Diethyl Ether  
Concen: 0.281 ug/l  
RT: 2.19 min Scan# 213  
Delta R.T. 0.01 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion: 74 Resp: 816  
Ion Ratio Lower Upper  
74 100  
45 61.6 20.6 185.0

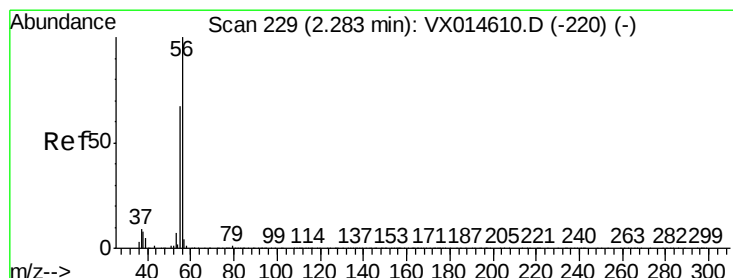
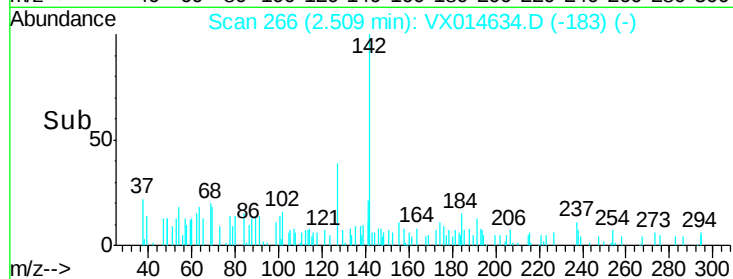
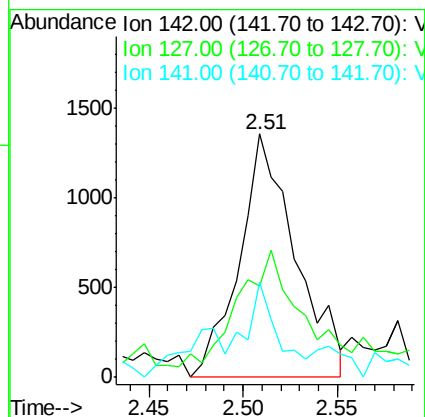
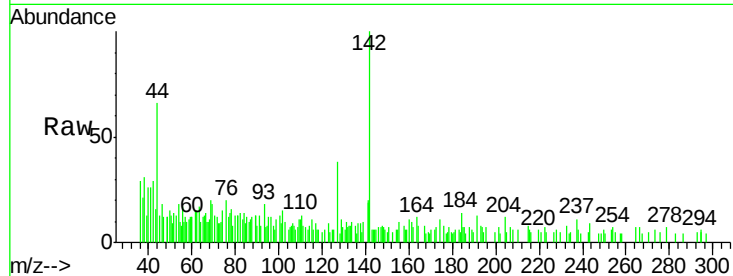




#11  
Methvl Iodide  
Concen: 0.535 ug/l  
RT: 2.51 min Scan# 266  
Delta R.T. 0.01 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

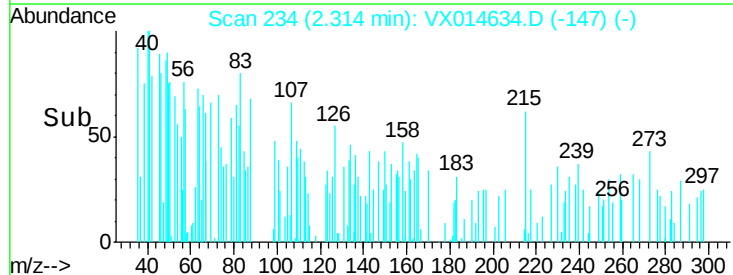
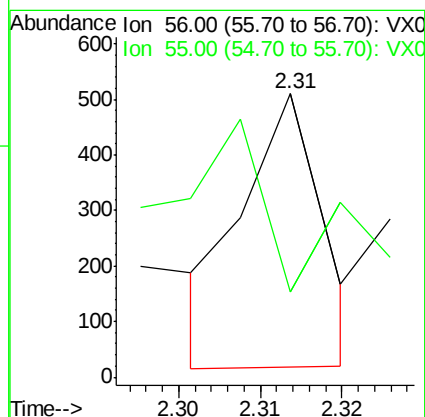
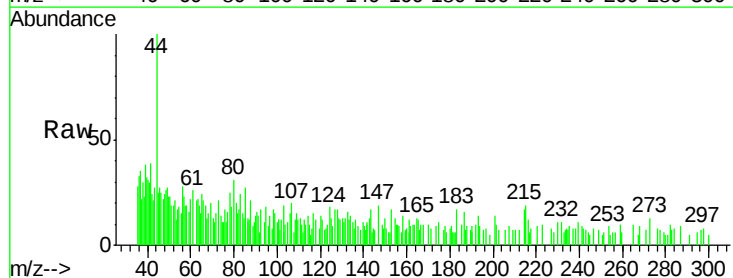
Instrument :  
MSVOA\_X  
ClientSampleId :  
TE-MW-A-1

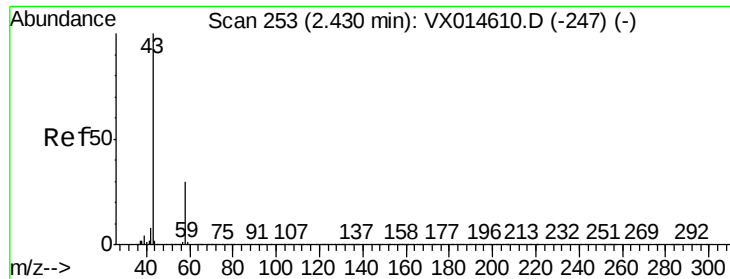
Tot Ion:142 Resp: 2809  
Ion Ratio Lower Upper  
142 100  
127 29.1 19.5 58.5  
141 31.9 7.0 20.9#



#13  
Acrolein  
Concen: 0.450 ug/l  
RT: 2.31 min Scan# 234  
Delta R.T. 0.03 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion: 56 Resp: 334  
Ion Ratio Lower Upper  
56 100  
55 68.9 54.9 82.3

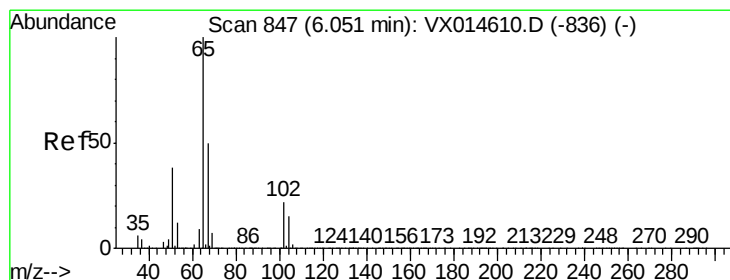
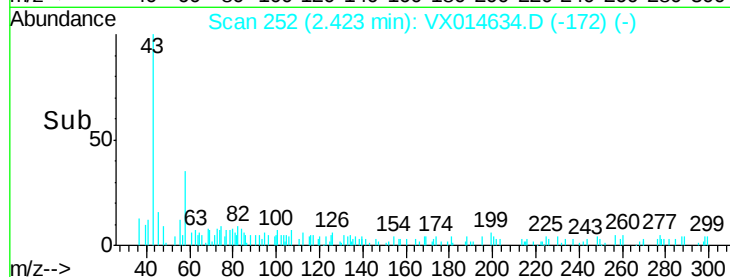
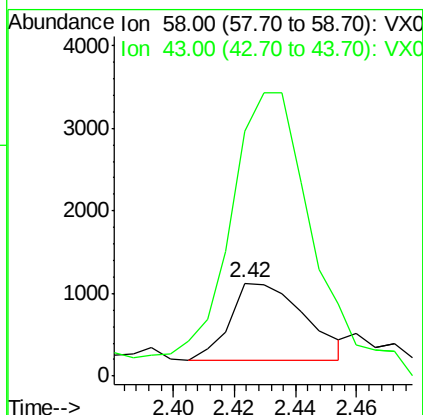
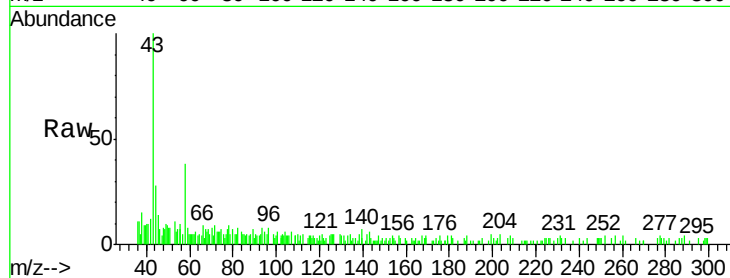




#15  
Acetone  
Concen: 1.962 ug/l  
RT: 2.42 min Scan# 252  
Delta R.T. -0.01 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

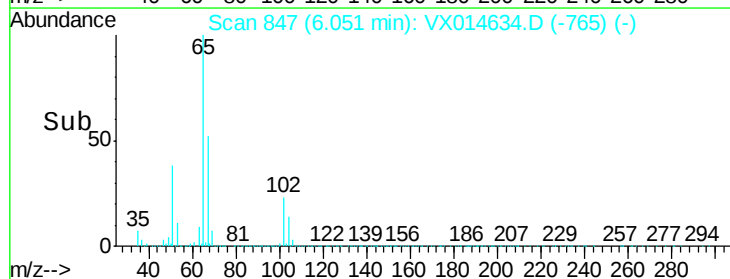
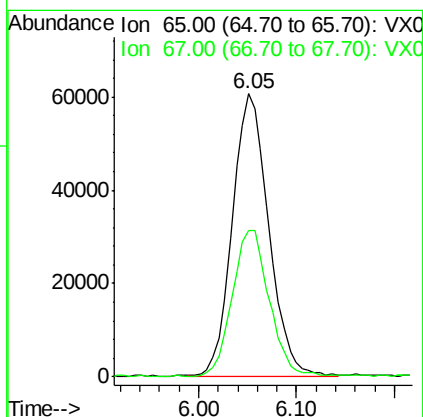
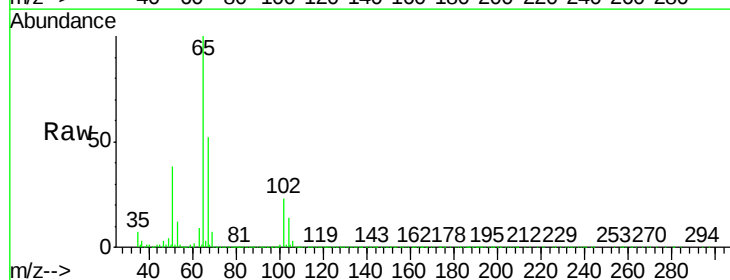
Instrument :  
MSVOA\_X  
ClientSampleId :  
TE-MW-A-1

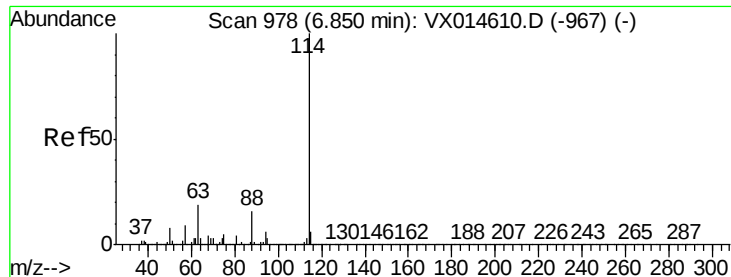
Tot Ion: 58 Resp: 1591  
Ion Ratio Lower Upper  
58 100  
43 270.8 236.3 354.5



#27  
1,2-Dichloroethane-d4  
Concen: 31.438 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion: 65 Resp: 156209  
Ion Ratio Lower Upper  
65 100  
67 52.4 43.1 64.7

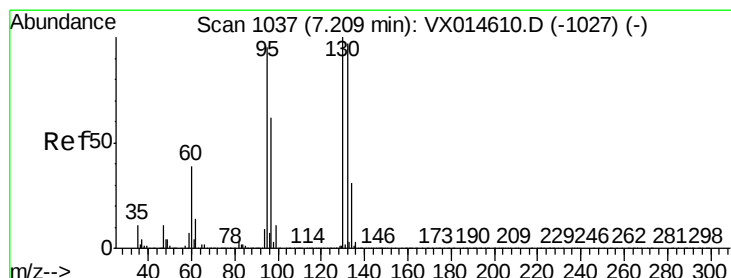
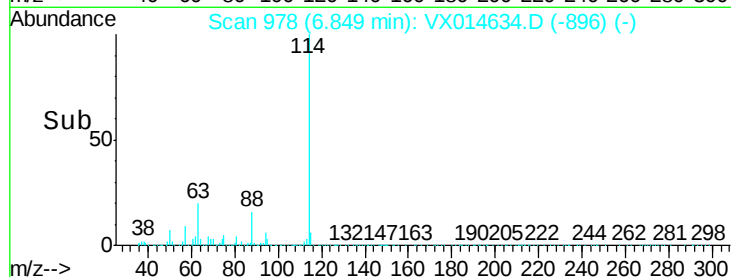
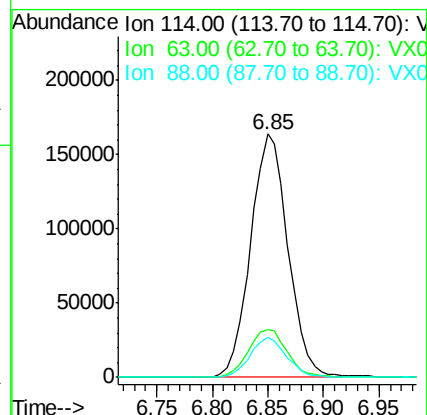
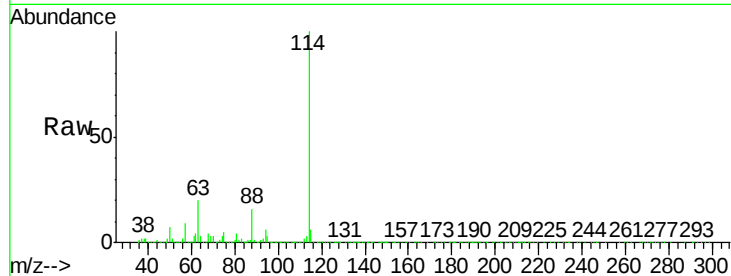




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

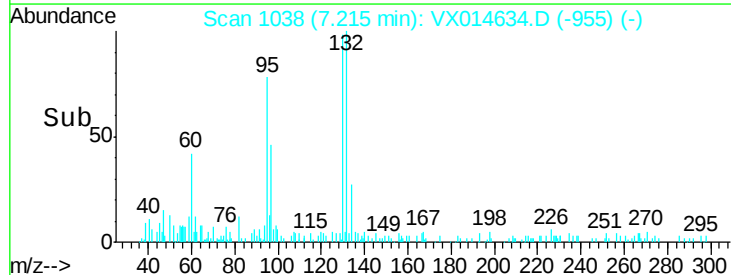
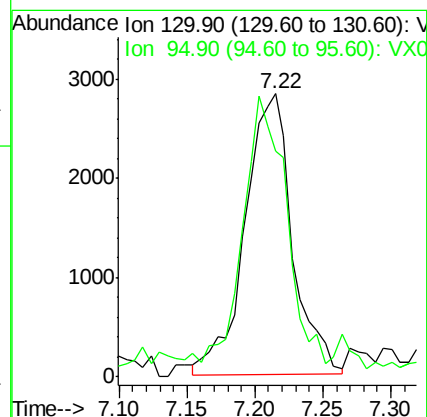
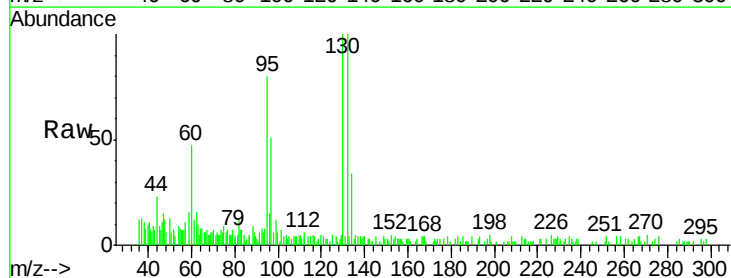
Instrument :  
MSVOA\_X  
ClientSampleId :  
TE-MW-A-1

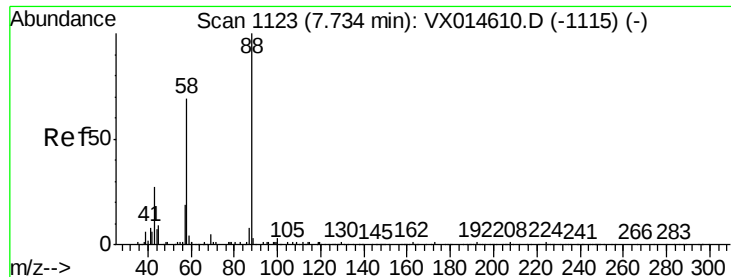
Tot Ion:114 Resp: 382996  
Ion Ratio Lower Upper  
114 100  
63 20.4 16.1 24.1  
88 16.0 12.5 18.7



#37  
Trichloroethene  
Concen: 1.455 ug/l  
RT: 7.22 min Scan# 1038  
Delta R.T. 0.01 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion:130 Resp: 6914  
Ion Ratio Lower Upper  
130 100  
95 73.7 71.7 107.5





#45

1,4-Dioxane

Concen: 2.184 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014634.D

Acq: 16 Jan 2020 13:37

Instrument :

MSVOA\_X

ClientSampled :

TE-MW-A-1

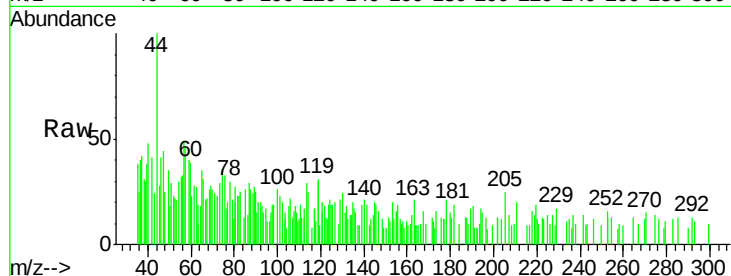
Tot Ion: 88 Resp: 227

Ion Ratio Lower Upper

88 100

43 22.0 25.4 38.2#

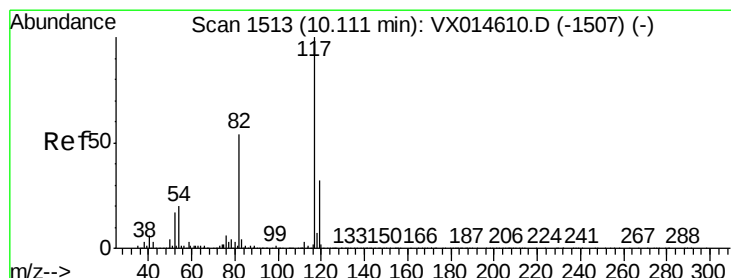
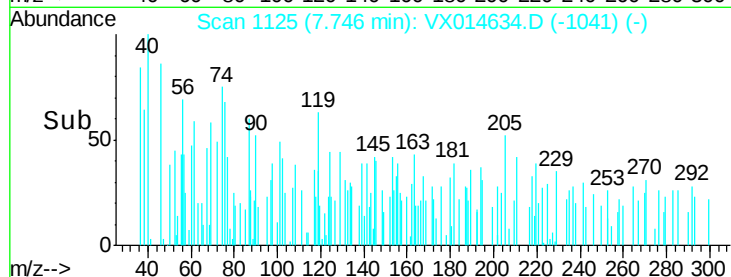
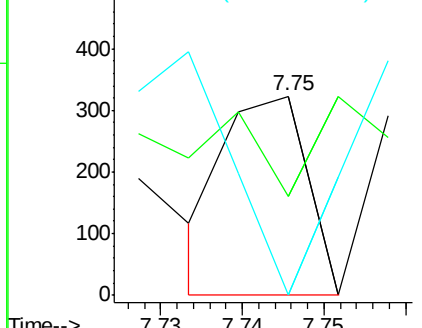
58 241.0 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014634.D

Acq: 16 Jan 2020 13:37

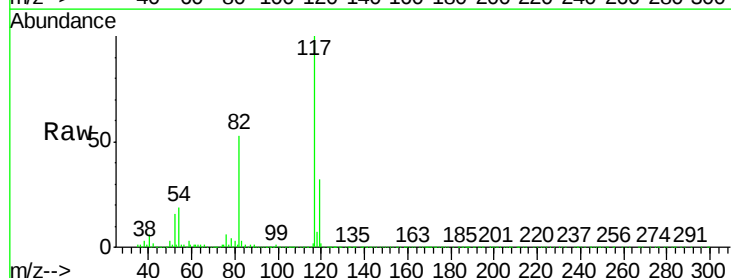
Tgt Ion: 117 Resp: 342076

Ion Ratio Lower Upper

117 100

82 53.1 43.8 65.6

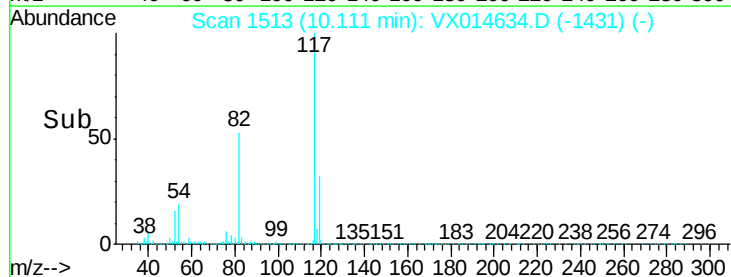
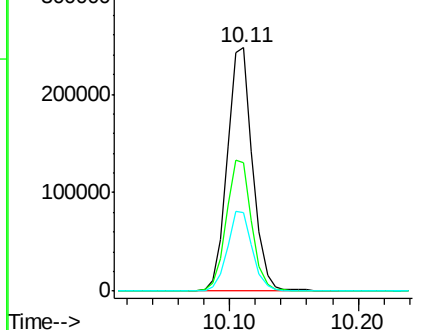
119 32.3 25.8 38.6

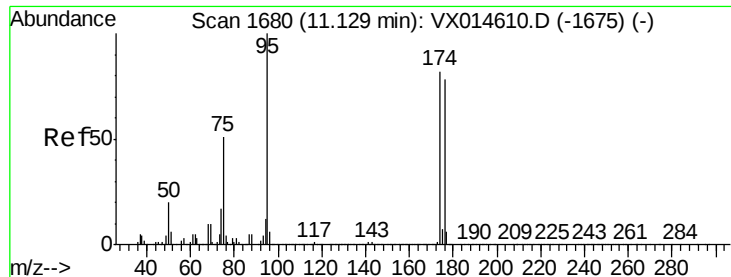


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

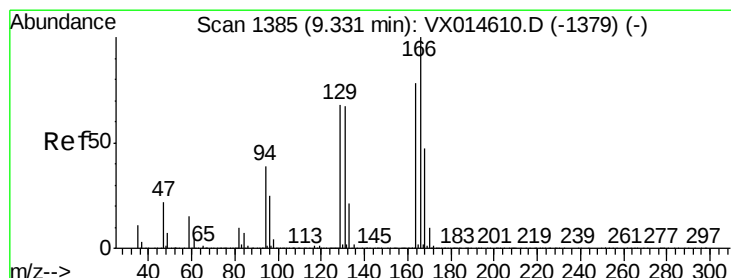
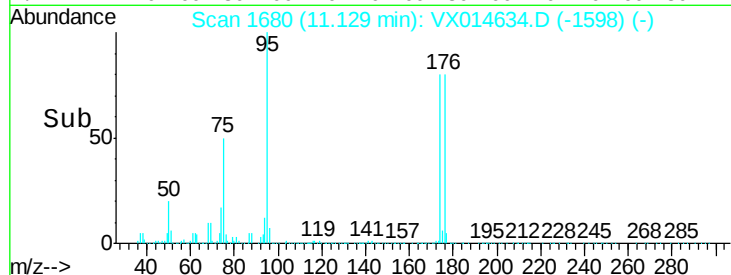
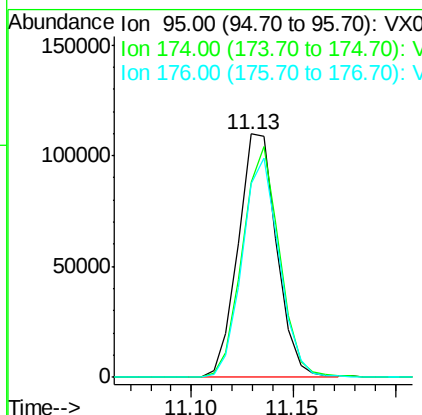
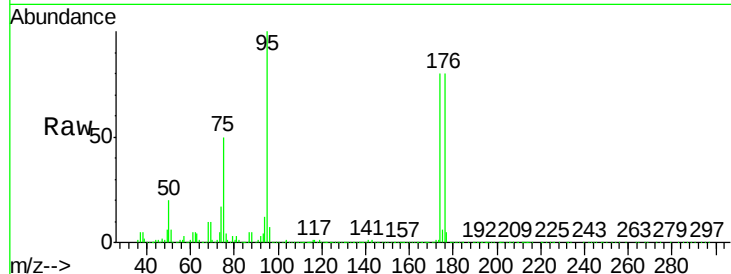




#60  
4-Bromofluorobenzene  
Concen: 26.322 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

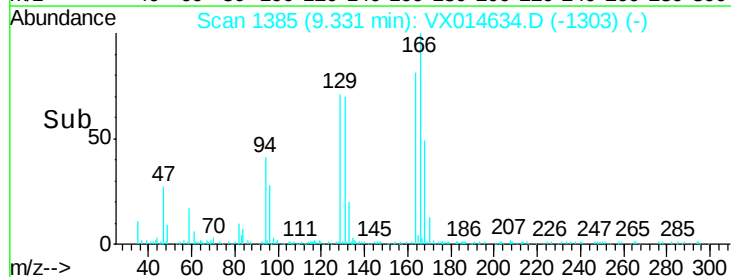
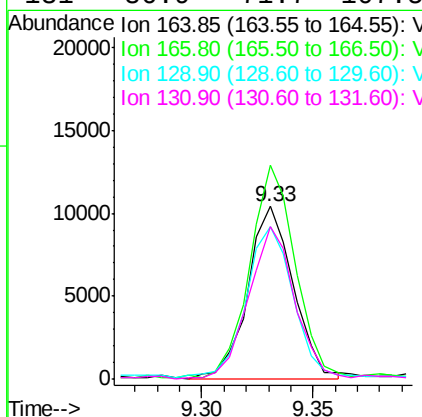
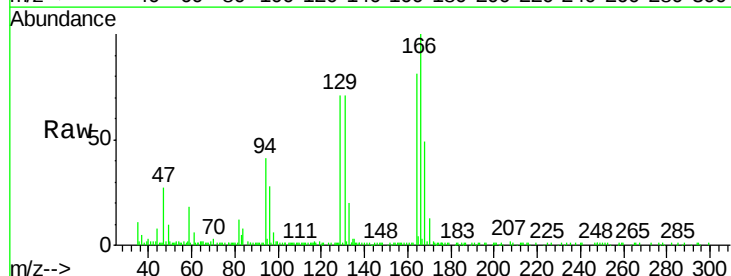
Instrument :  
MSVOA\_X  
ClientSampled :  
TE-MW-A-1

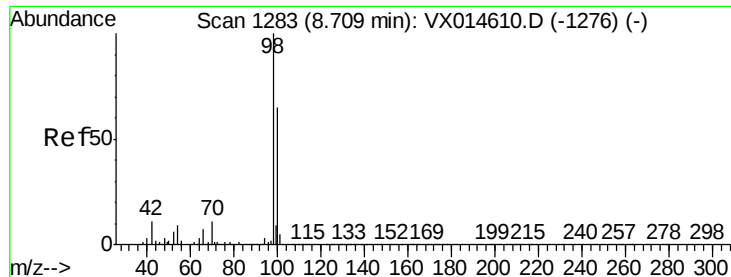
Tot Ion: 95 Resp: 144082  
Ion Ratio Lower Upper  
95 100  
174 91.3 70.2 105.2  
176 87.1 68.3 102.5



#61  
Tetrachloroethene  
Concen: 2.936 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion: 164 Resp: 14845  
Ion Ratio Lower Upper  
164 100  
166 121.7 104.2 156.2  
129 86.3 71.6 107.4  
131 86.9 71.7 107.5





#63

Toluene-d8

Concen: 29.622 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014634.D

Acq: 16 Jan 2020 13:37

Instrument :

MSVOA\_X

ClientSampleId :

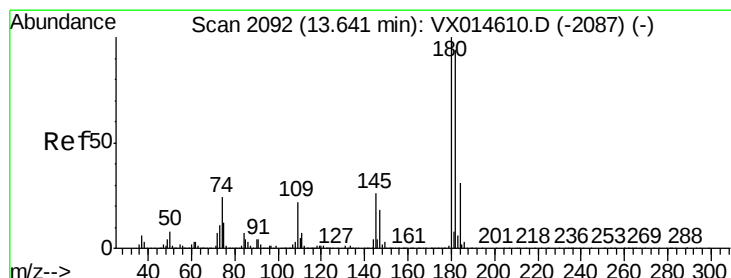
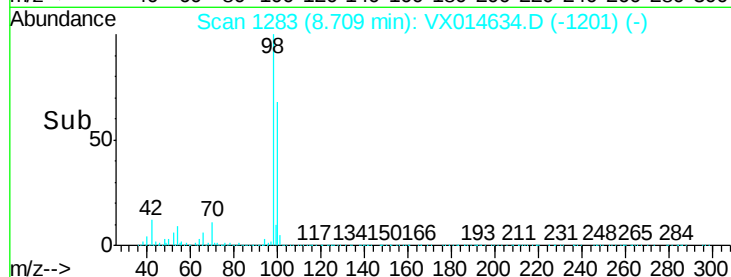
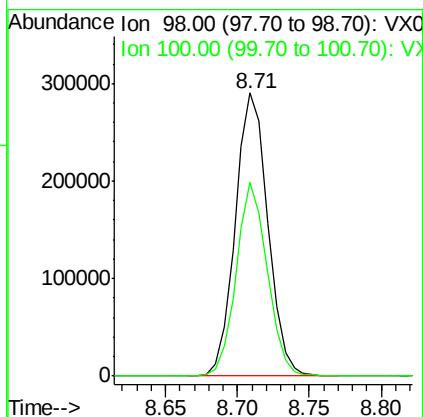
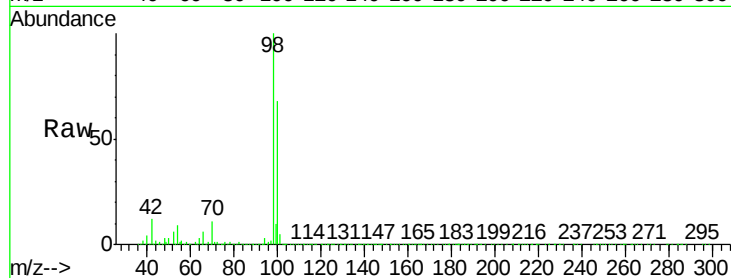
TE-MW-A-1

Tot Ion: 98 Resp: 457700

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#89

1,2,4-Trichlorobenzene

Concen: 0.286 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014634.D

Acq: 16 Jan 2020 13:37

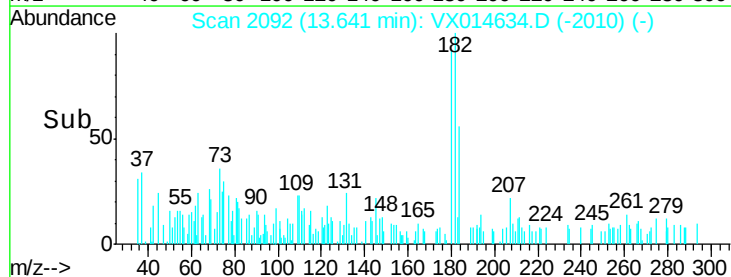
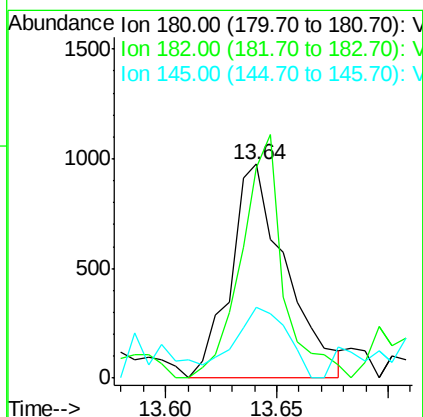
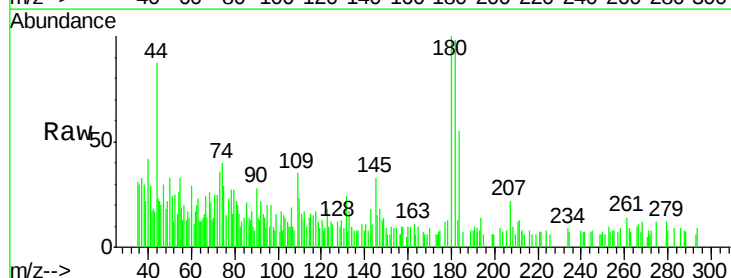
Tgt Ion:180 Resp: 1701

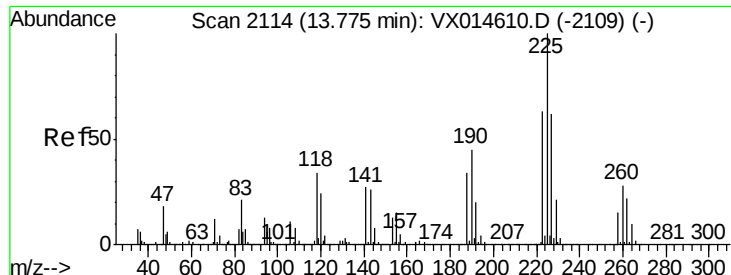
Ion Ratio Lower Upper

180 100

182 84.9 76.4 114.6

145 31.1 21.9 32.9

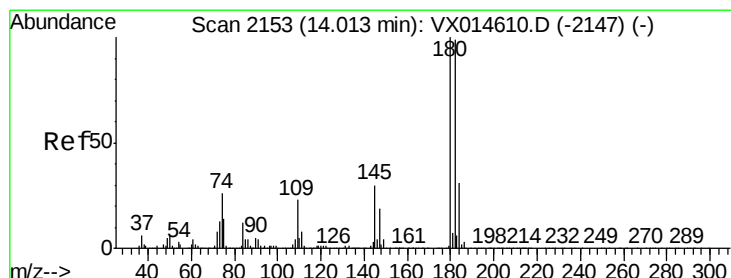
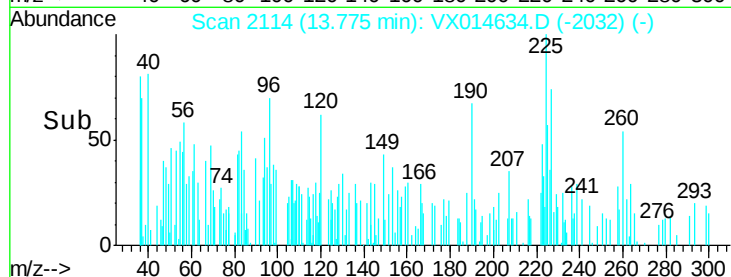
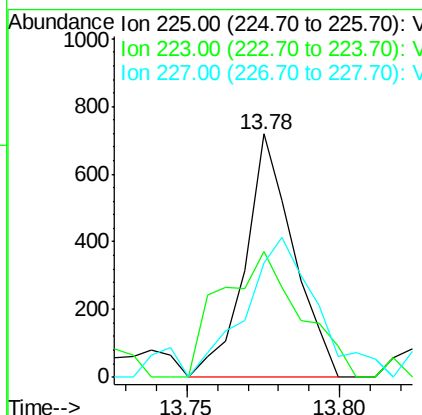
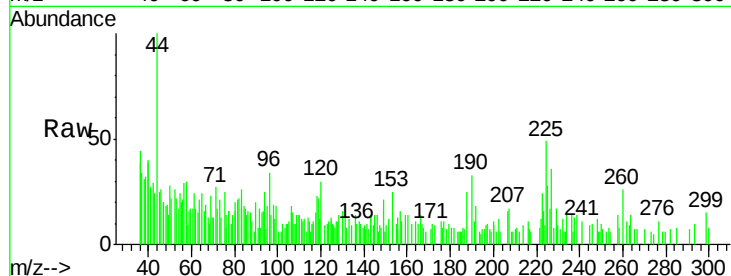




#90  
Hexachlorobutadiene  
Concen: 0.265 ug/l  
RT: 13.78 min Scan# 2114  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Instrument :  
MSVOA\_X  
ClientSampled :  
TE-MW-A-1

Tot Ion:225 Resp: 789  
Ion Ratio Lower Upper  
225 100  
223 48.9 0.0 127.4  
227 79.1 0.0 122.8



#92  
1,2,3-Trichlorobenzene  
Concen: 0.263 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. 0.00 min  
Lab File: VX014634.D  
Acq: 16 Jan 2020 13:37

Tgt Ion:180 Resp: 1593  
Ion Ratio Lower Upper  
180 100  
182 92.7 0.0 192.8  
145 23.3 0.0 60.0

