

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113018\  
 Data File : VX006225.D  
 Acq On : 30 Nov 2018 12:56  
 Operator : JC/MD  
 Sample : J6147-02 500X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

Quant Time: Nov 30 22:17:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 942326   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1389774  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1249965  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 613793   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 454665   | 47.26 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.52% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 439236   | 48.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.62% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1623786  | 49.61 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.22% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 588700   | 47.73 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.46% |          |

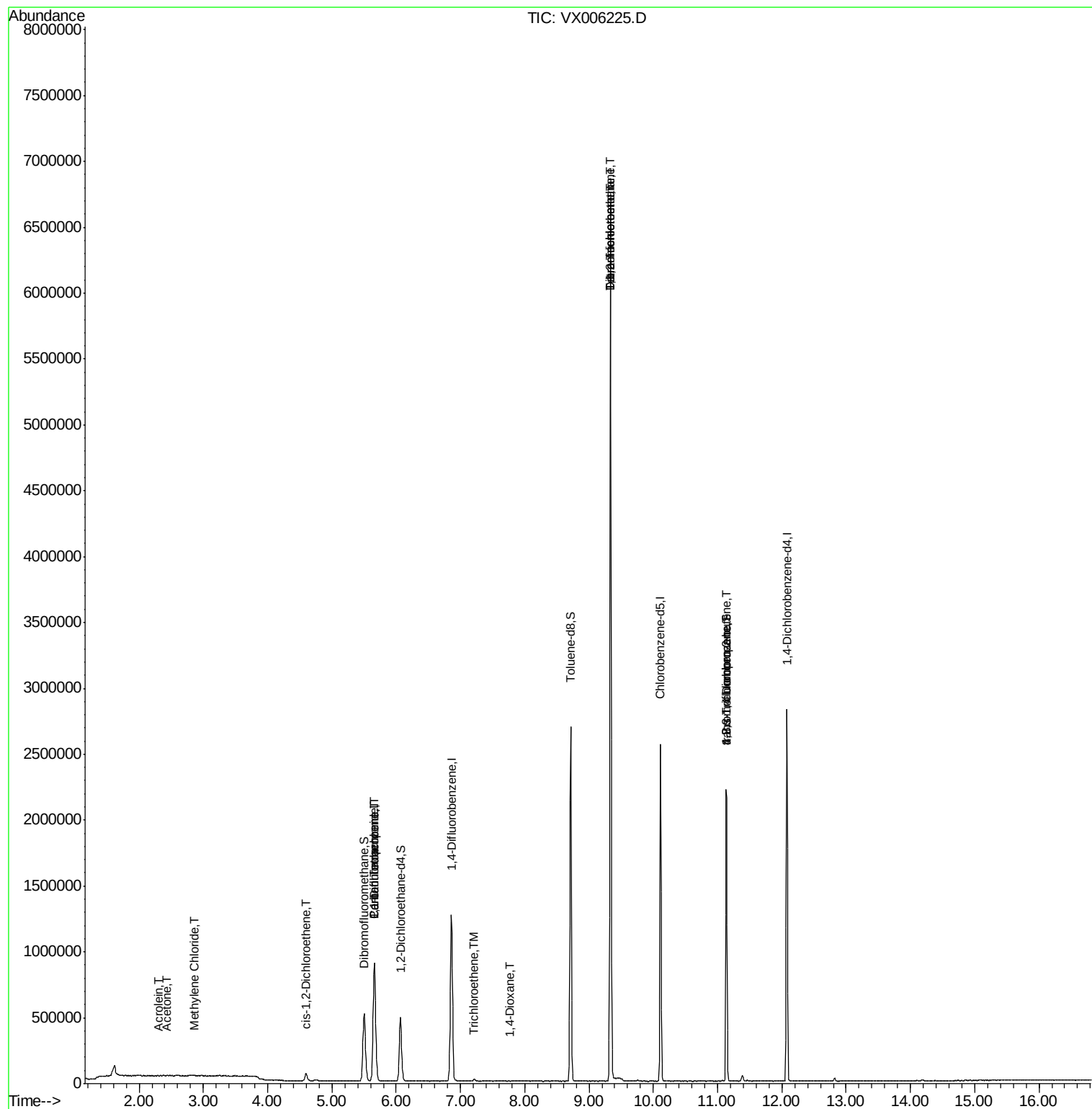
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 13) Acrolein                   | 2.30  | 56   | 406      | 0.282   | ug/l # | 35     |
| 16) Acetone                    | 2.44  | 43   | 2273     | 0.503   | ug/l   | 93     |
| 20) Methylene Chloride         | 2.86  | 84   | 2565     | 0.267   | ug/l # | 78     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 36894    | 3.640   | ug/l   | 91     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 55695    | 4.759   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 83014    | 6.029   | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130  | 7590     | 0.715   | ug/l   | 100    |
| 49) 1,4-Dioxane                | 7.76  | 88   | 71       | 0.271   | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane      | 9.33  | 97   | 10163    | 1.085   | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 1202221  | 104.067 | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 1318542  | 140.071 | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 270202   | 22.807  | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 270202   | 53.522  | ug/l # | 15     |

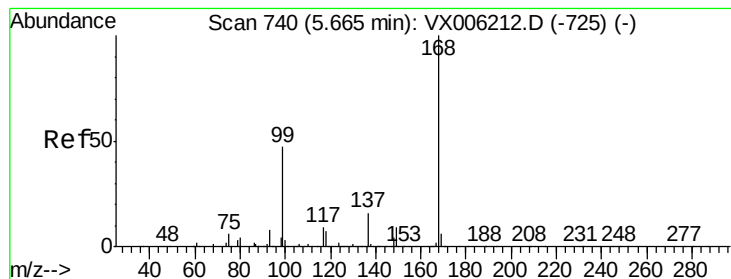
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX113018\  
Data File : VX006225.D  
Acq On : 30 Nov 2018 12:56  
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Sample : J6147-02 500X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

Quant Time: Nov 30 22:17:17 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

Instrument :

MSVOA\_X

ClientSampled :

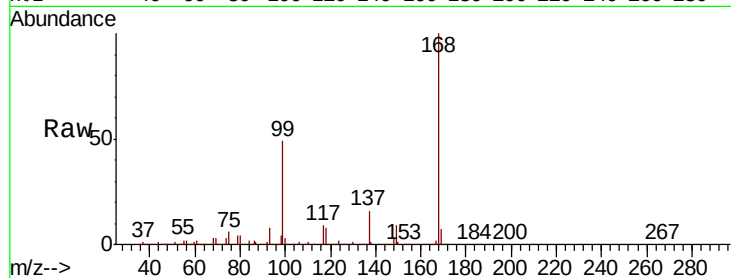
MW-4

Tot Ion:168 Resp: 942326

Ion Ratio Lower Upper

168 100

99 48.9 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

400000

300000

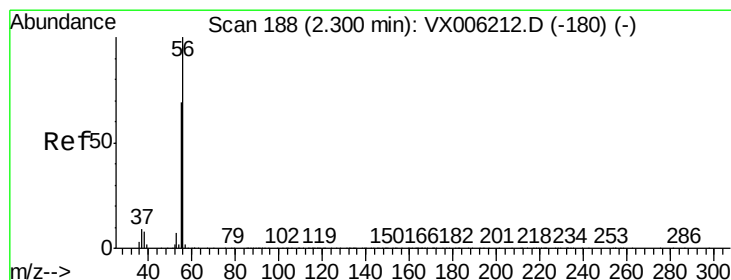
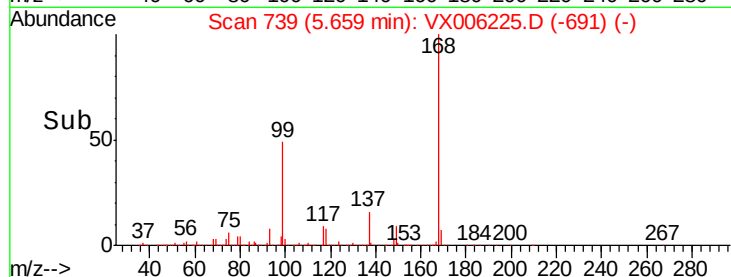
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#13

Acrolein

Concen: 0.282 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX006225.D

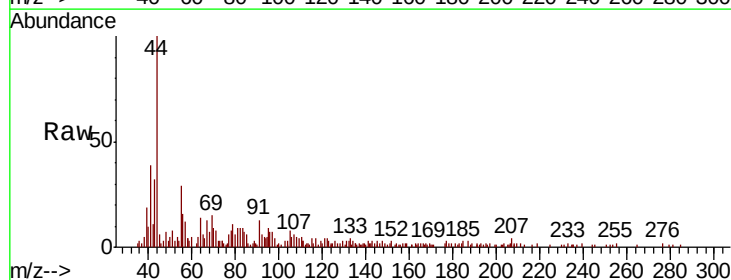
Acq: 30 Nov 2018 12:56

Tgt Ion: 56 Resp: 406

Ion Ratio Lower Upper

56 100

55 126.4 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2500

2000

1500

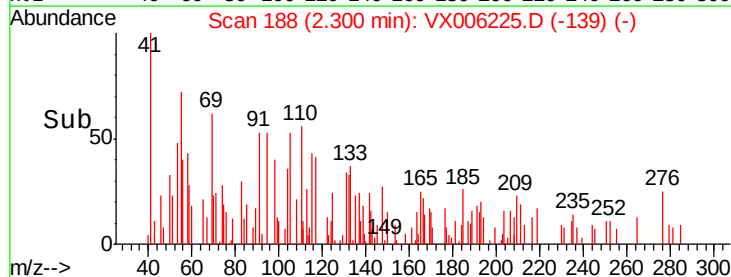
1000

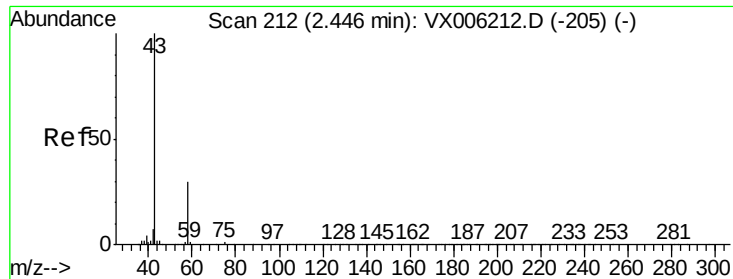
500

0

Time-->

2.28 2.30 2.32

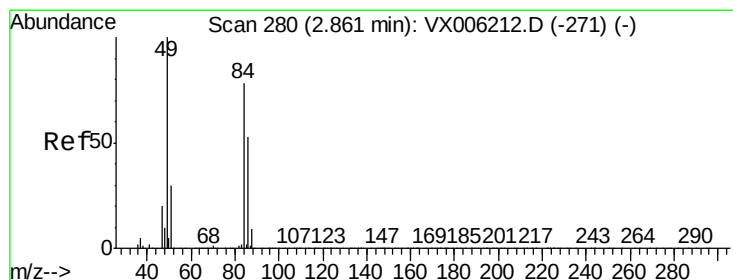
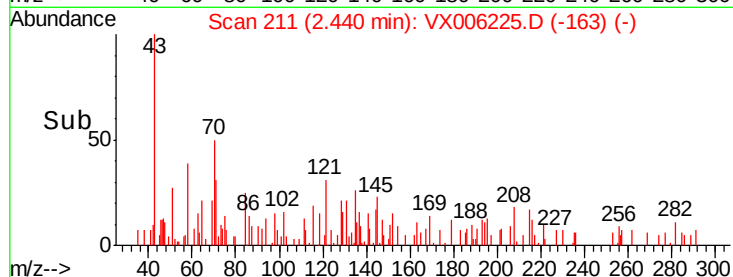
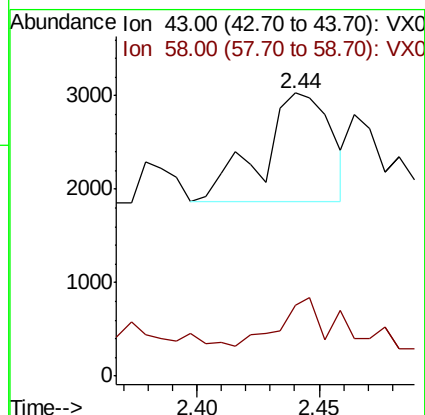
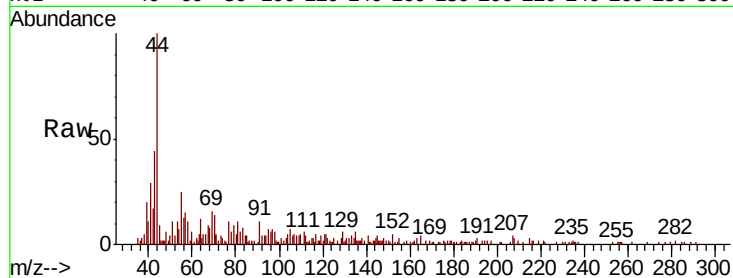




#16  
Acetone  
Concen: 0.503 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

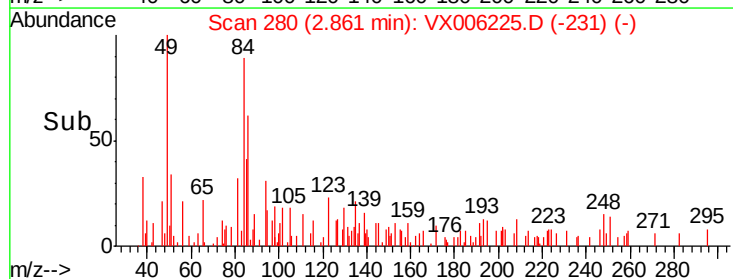
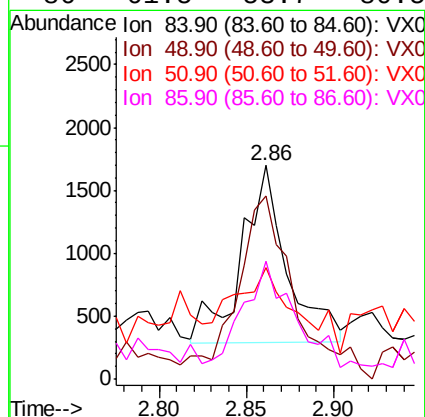
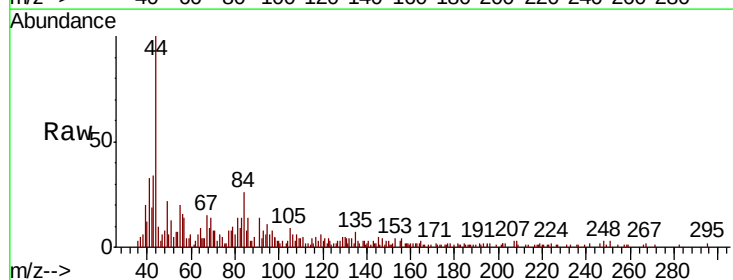
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

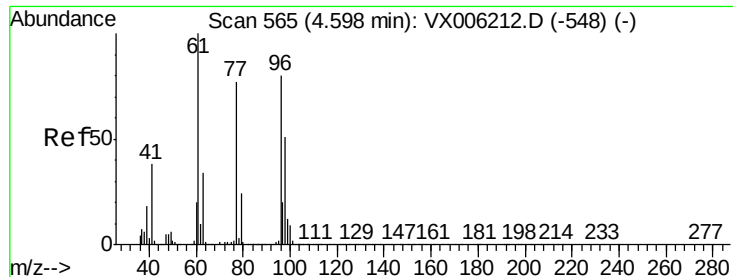
Tot Ion: 43 Resp: 2273  
Ion Ratio Lower Upper  
43 100  
58 26.1 24.0 36.0



#20  
Methylene Chloride  
Concen: 0.267 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

Tgt Ion: 84 Resp: 2565  
Ion Ratio Lower Upper  
84 100  
49 91.8 102.2 153.4#  
51 48.8 31.1 46.7#  
86 61.5 53.7 80.5



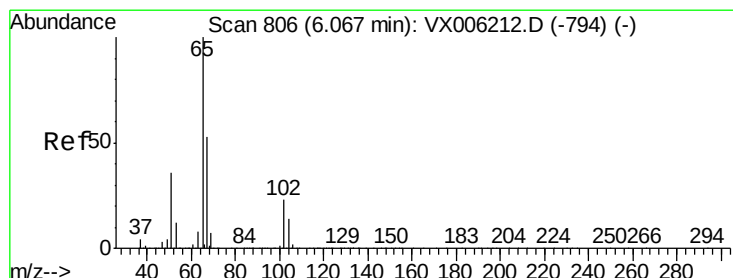
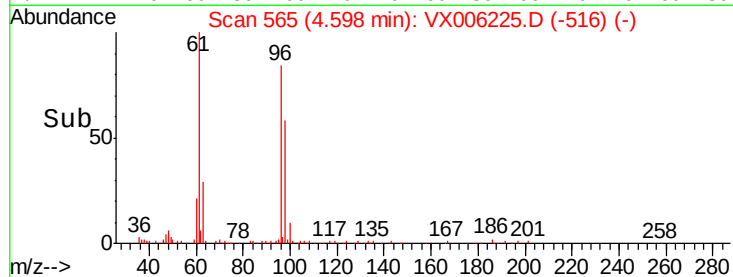
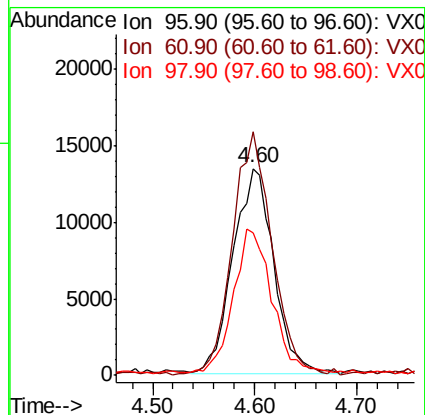
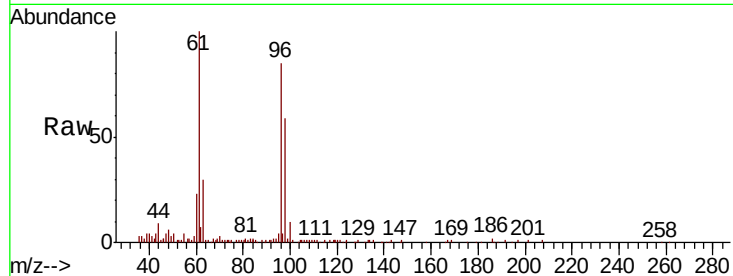


#27

cis-1,2-Dichloroethene  
 Concen: 3.640 ug/l  
 RT: 4.60 min Scan# 565  
 Delta R.T. 0.00 min  
 Lab File: VX006225.D  
 Acq: 30 Nov 2018 12:56

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 MW-4

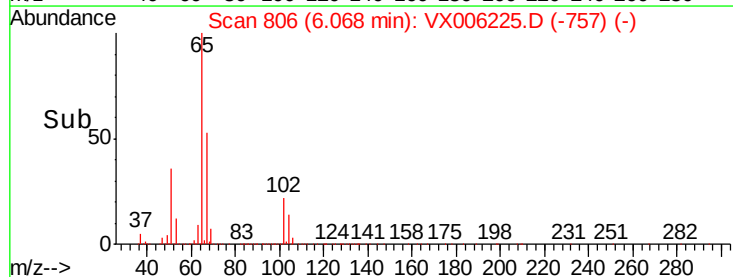
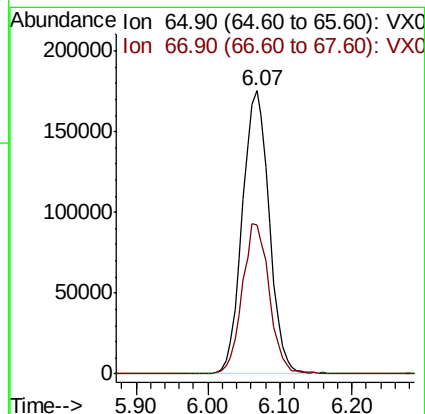
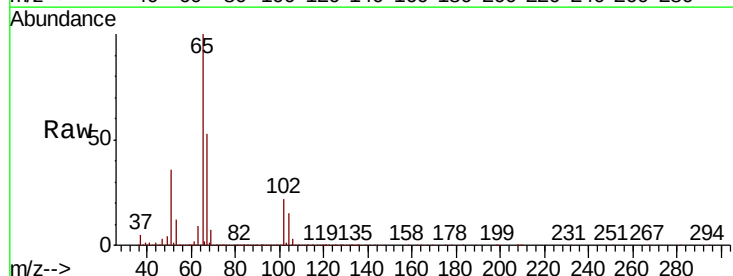
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 116.6 | 0.0   | 265.0 |
| 98      | 66.2  | 0.0   | 130.2 |

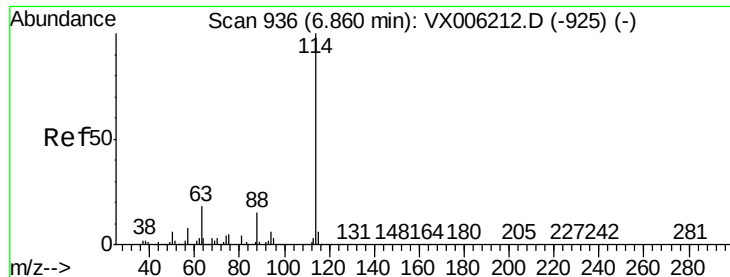


#33

1,2-Dichloroethane-d4  
 Concen: 47.264 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX006225.D  
 Acq: 30 Nov 2018 12:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.9  | 0.0   | 107.2 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

Instrument :

MSVOA\_X

ClientSampleId :

MW-4

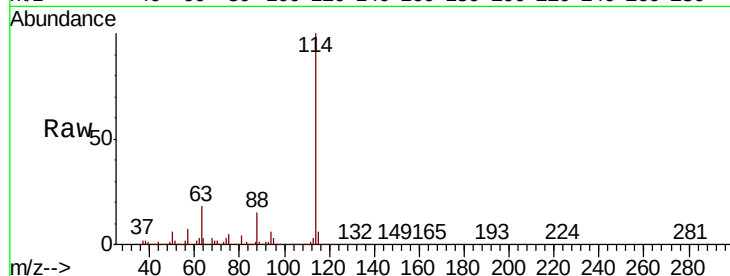
Tot Ion:114 Resp: 1389774

Ion Ratio Lower Upper

114 100

63 17.5 0.0 36.6

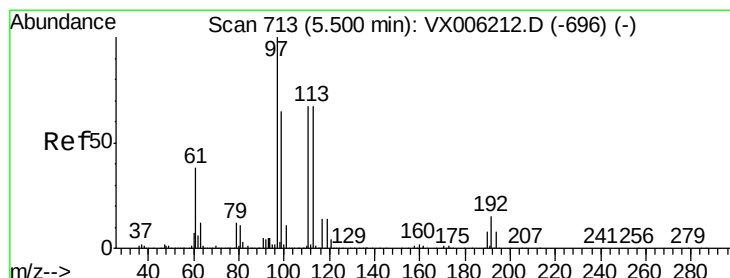
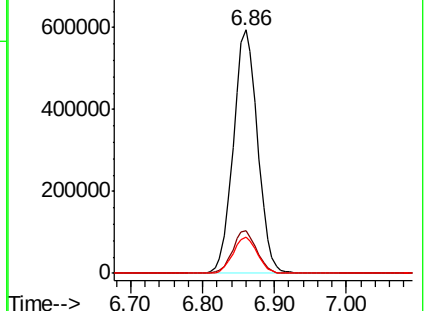
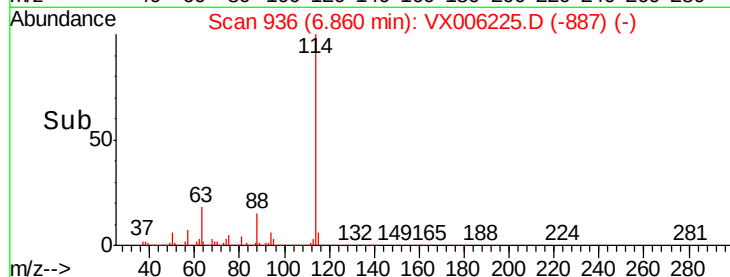
88 15.0 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.814 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

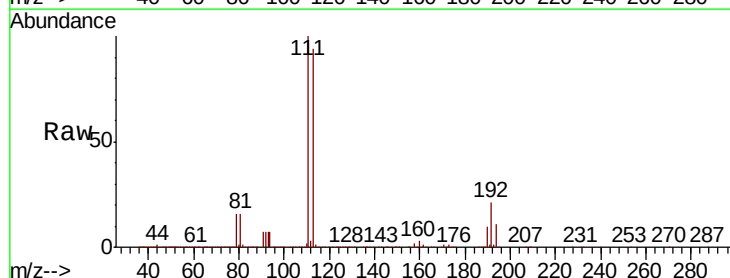
Tgt Ion:113 Resp: 439236

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

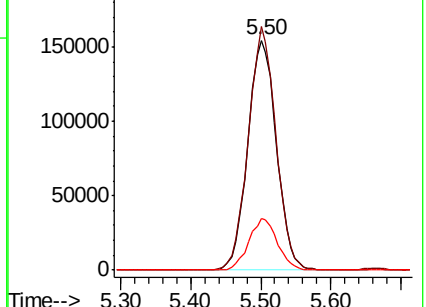
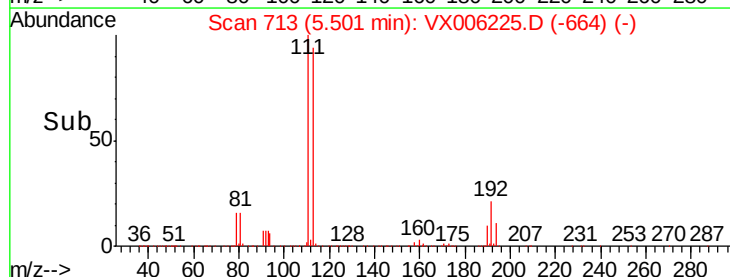
192 22.3 18.2 27.2

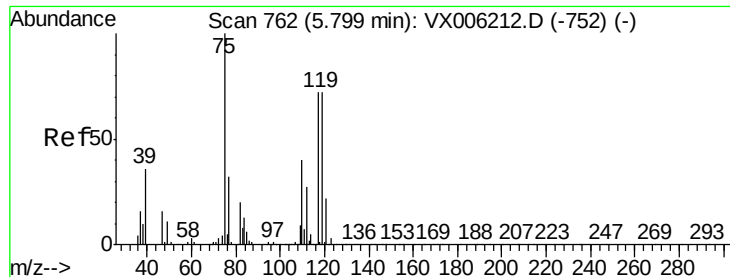


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.759 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

Instrument :

MSVOA\_X

ClientSampled :

MW-4

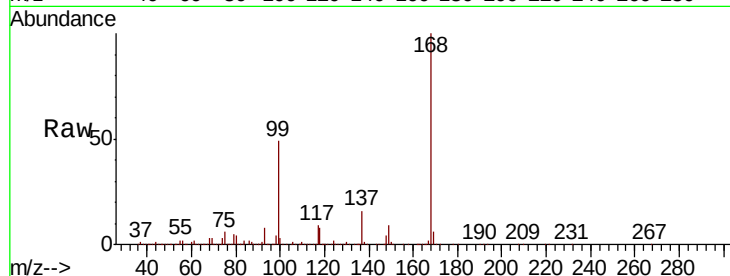
Tot Ion: 75 Resp: 55695

Ion Ratio Lower Upper

75 100

110 11.4 20.4 61.3#

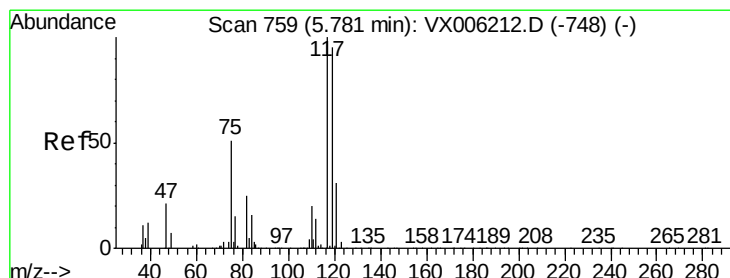
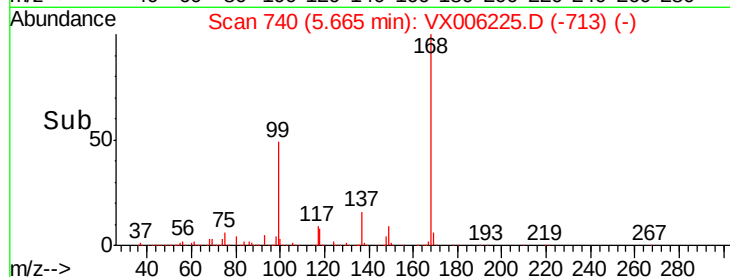
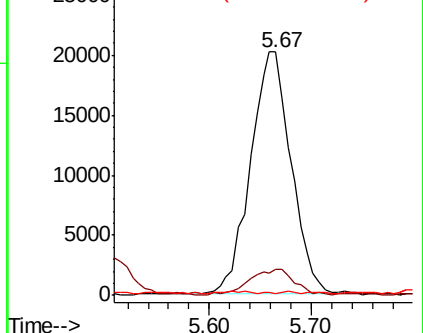
77 0.7 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.029 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

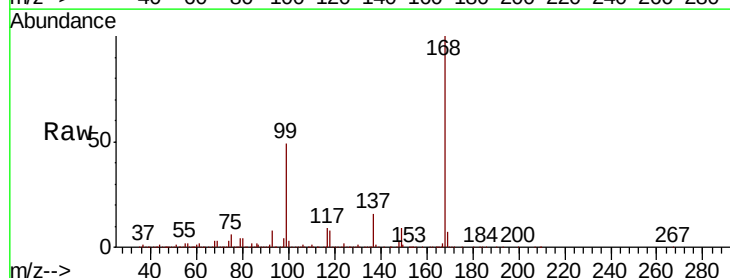
Tgt Ion: 117 Resp: 83014

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.8#

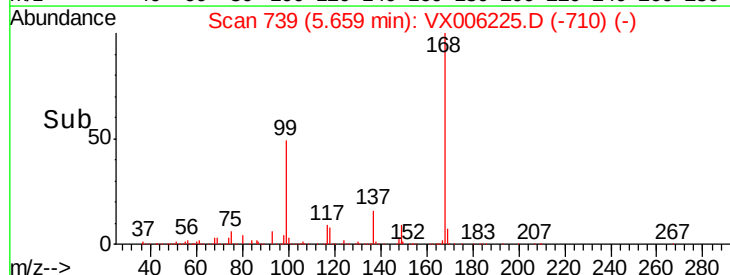
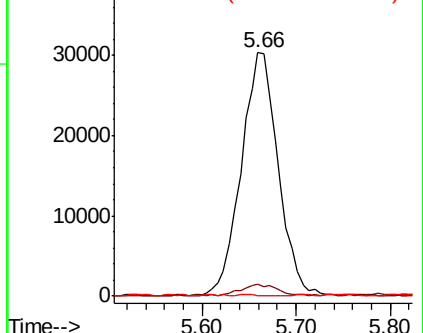
121 0.0 24.6 37.0#

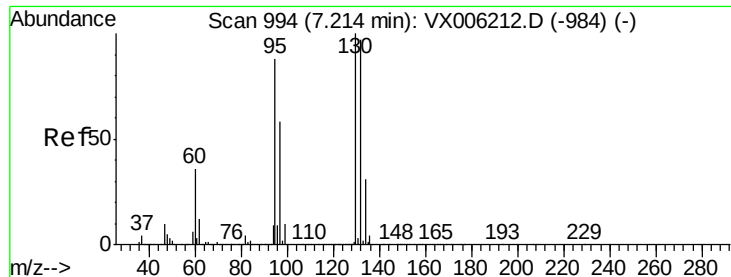


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.715 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

Instrument :

MSVOA\_X

ClientSampleId :

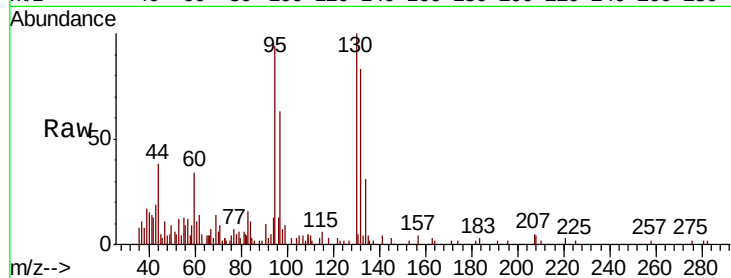
MW-4

Tot Ion:130 Resp: 7590

Ion Ratio Lower Upper

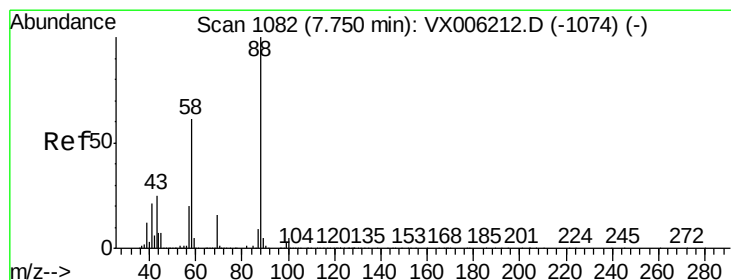
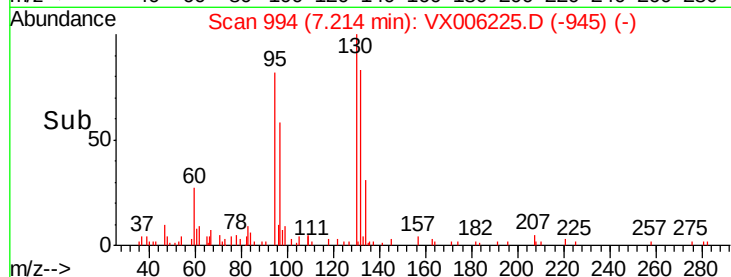
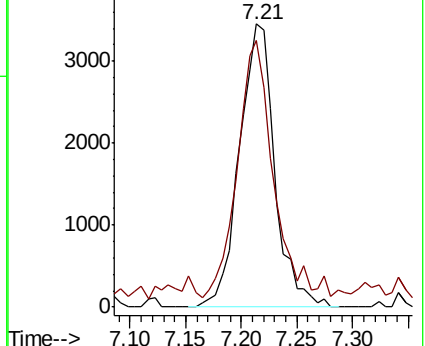
130 100

95 88.4 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.271 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

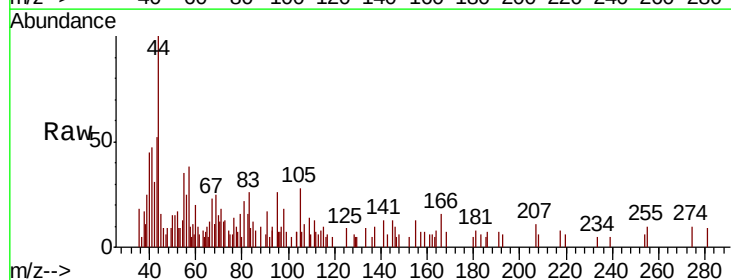
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 846.5 23.2 34.8#

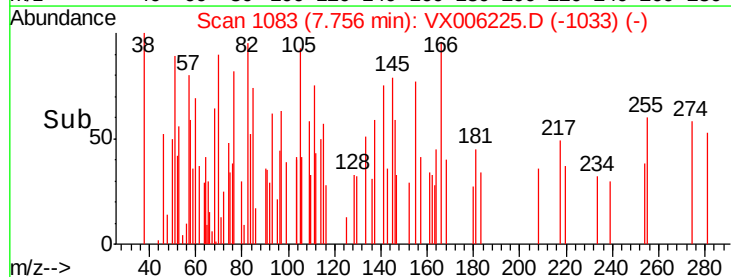
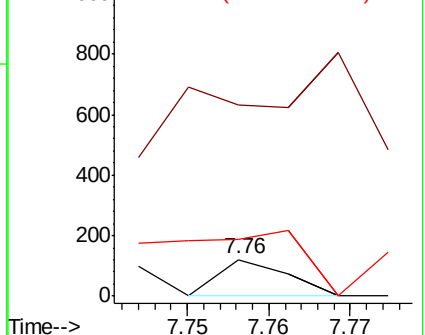
58 471.8 51.4 77.0#



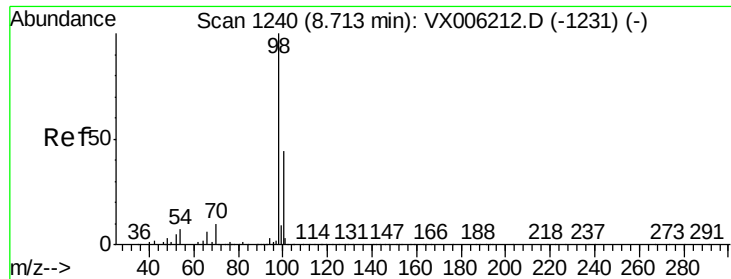
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



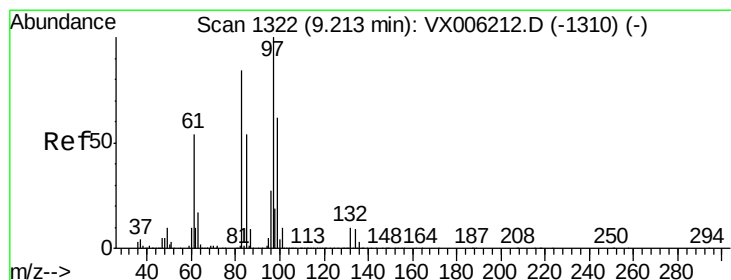
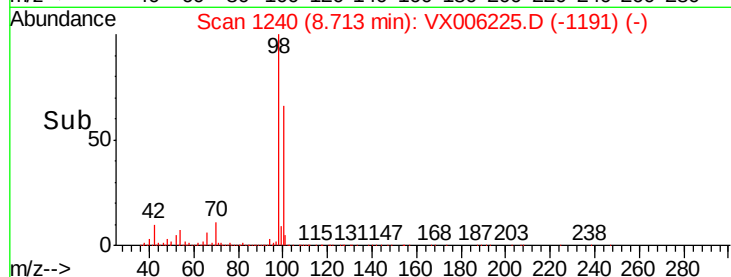
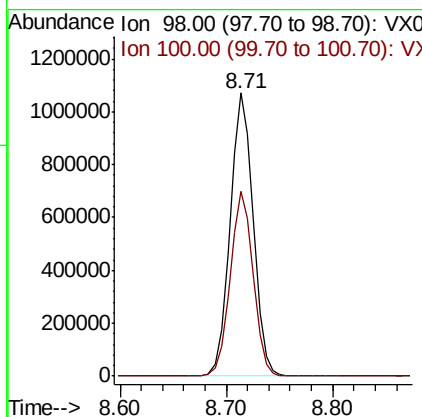
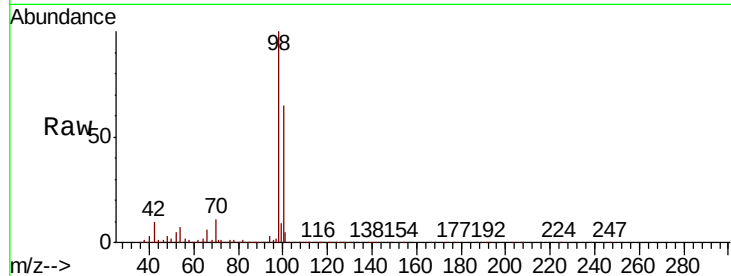




#50  
Toluene-d8  
Concen: 49.611 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

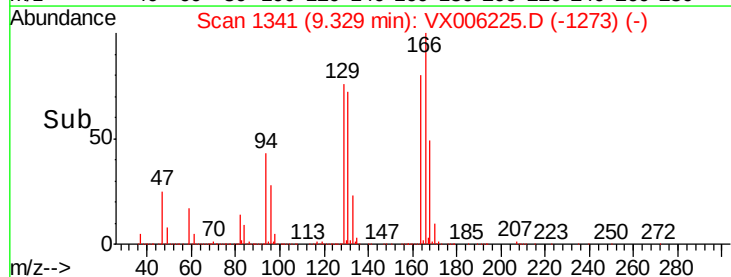
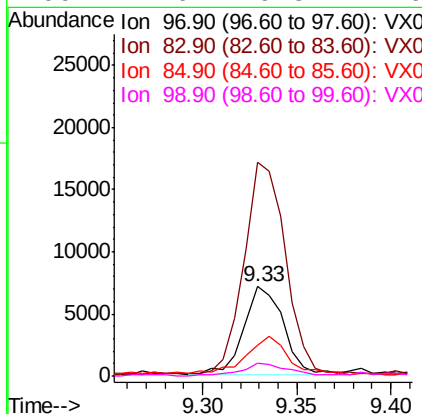
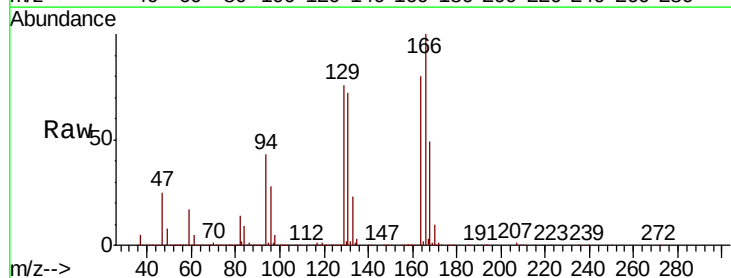
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

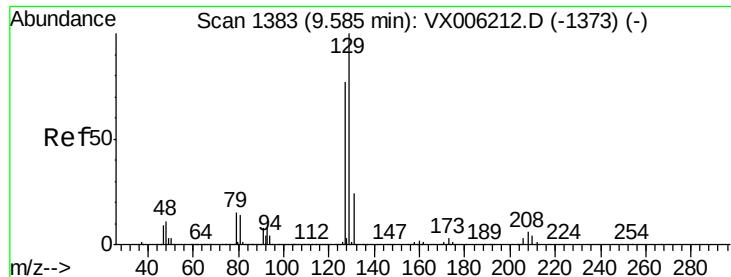
Tot Ion: 98 Resp: 1623786  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.2 78.2



#55  
1,1,2-Trichloroethane  
Concen: 1.085 ug/l  
RT: 9.33 min Scan# 1341  
Delta R.T. 0.12 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

Tgt Ion: 97 Resp: 10163  
Ion Ratio Lower Upper  
97 100  
83 242.1 67.1 100.7#  
85 31.4 43.2 64.8#  
99 14.6 49.8 74.6#





#60

Dibromochloromethane

Concen: 104.067 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

Instrument :

MSVOA\_X

ClientSampleId :

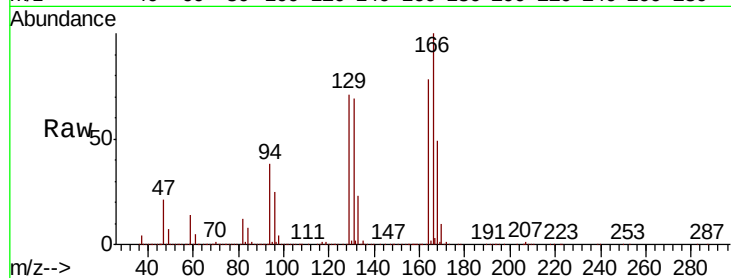
MW-4

Tot Ion:129 Resp: 1202221

Ion Ratio Lower Upper

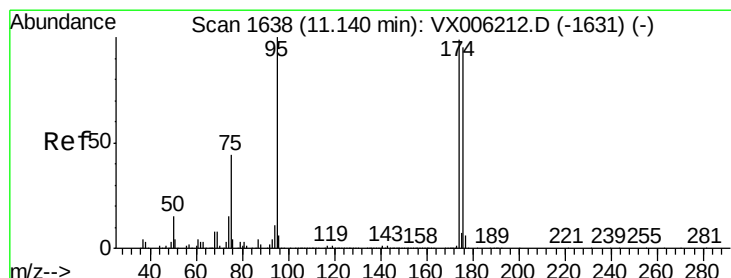
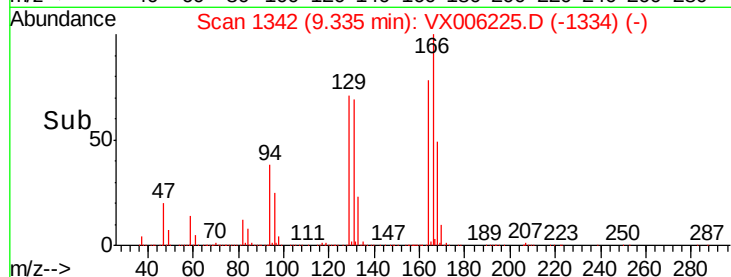
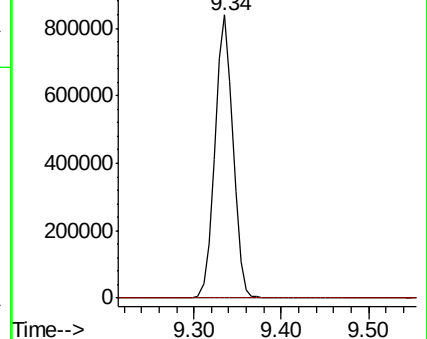
129 100

127 0.1 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.731 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006225.D

Acq: 30 Nov 2018 12:56

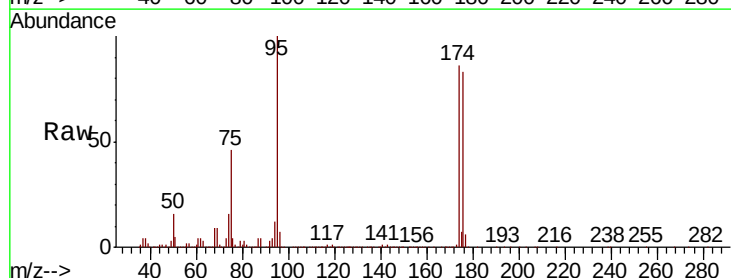
Tgt Ion: 95 Resp: 588700

Ion Ratio Lower Upper

95 100

174 91.9 0.0 187.0

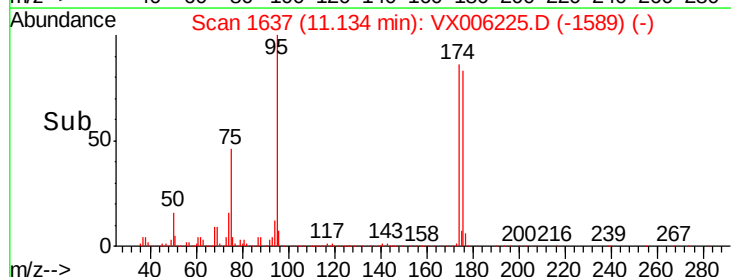
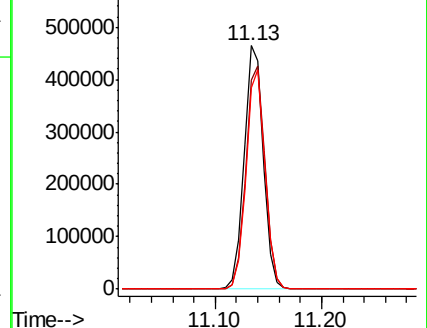
176 89.3 0.0 181.8

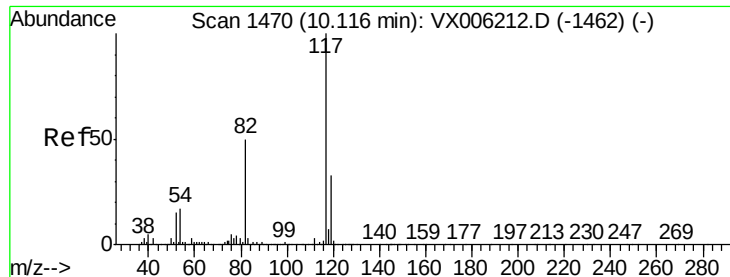


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

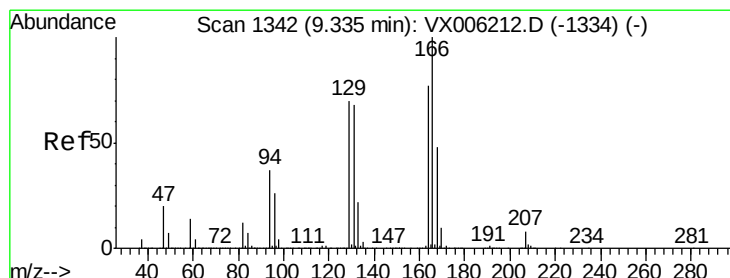
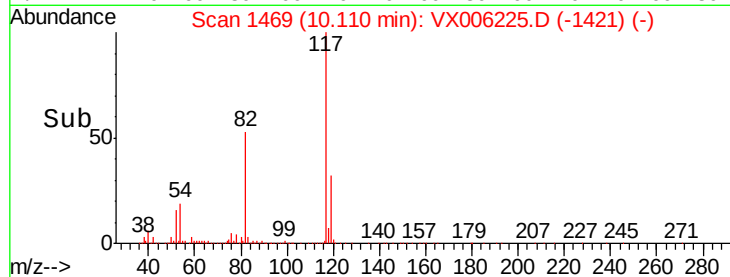
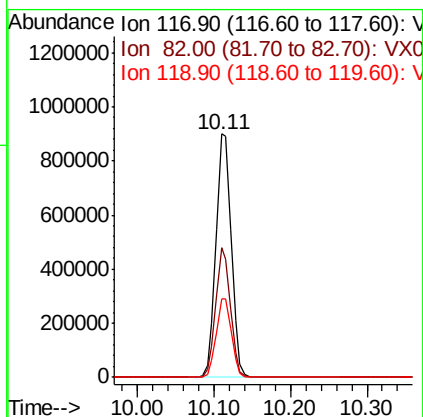
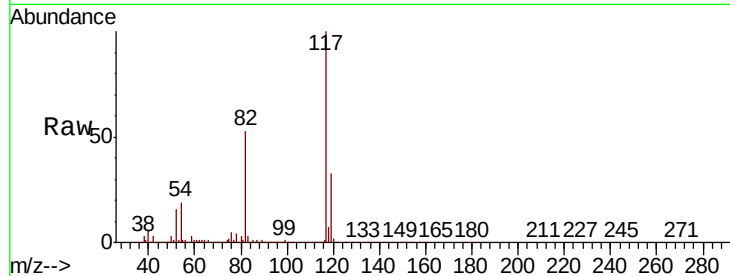




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.01 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

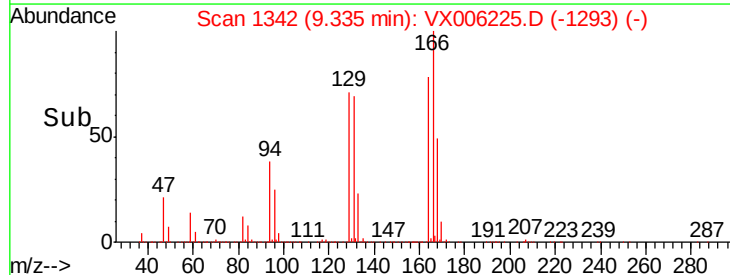
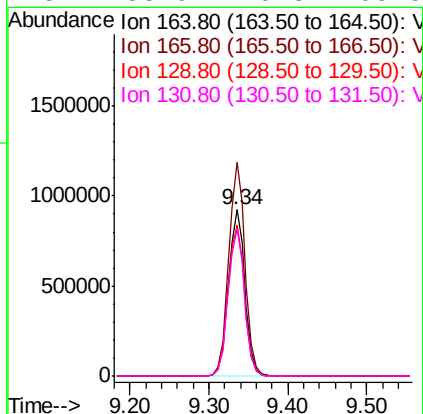
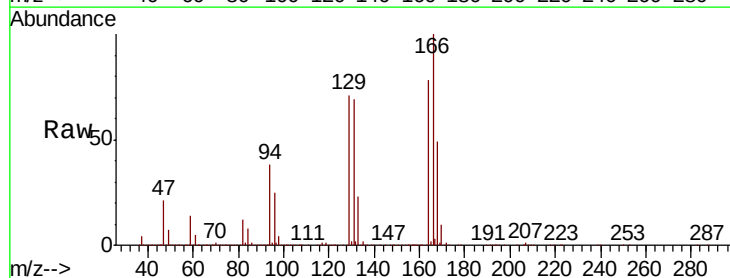
Instrument :  
MSVOA\_X  
ClientSampled :  
MW-4

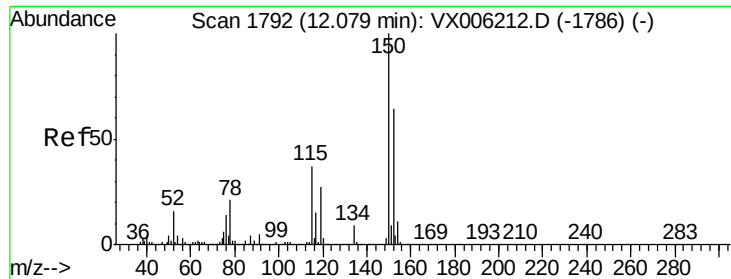
Tot Ion:117 Resp: 1249965  
Ion Ratio Lower Upper  
117 100  
82 53.3 39.6 59.4  
119 32.5 26.3 39.5



#64  
Tetrachloroethene  
Concen: 140.071 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

Tgt Ion:164 Resp: 1318542  
Ion Ratio Lower Upper  
164 100  
166 128.6 104.2 156.2  
129 90.9 72.6 108.8  
131 88.9 70.3 105.5

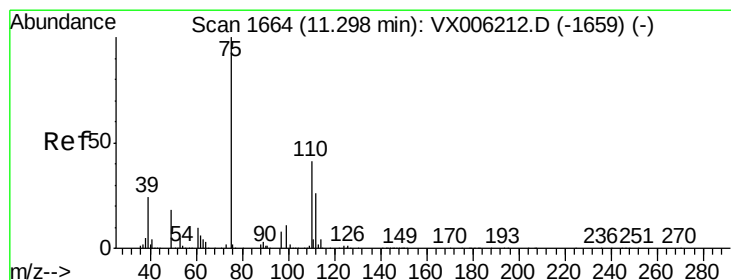
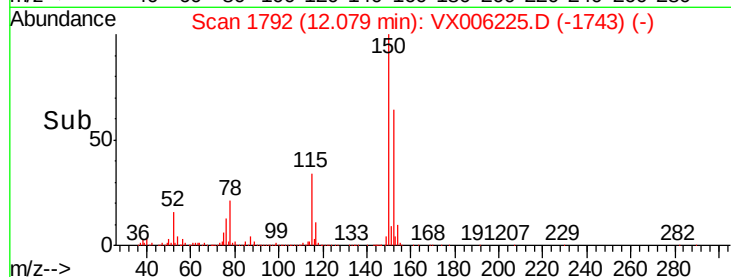
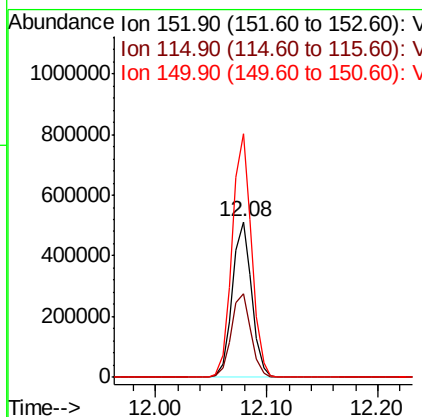
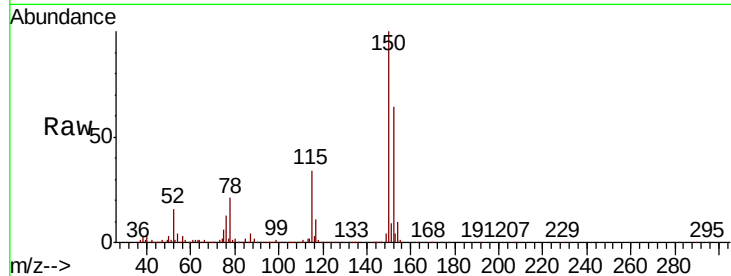




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX006225.D  
 Acq: 30 Nov 2018 12:56

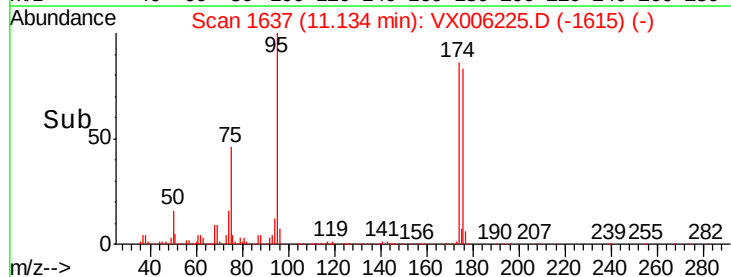
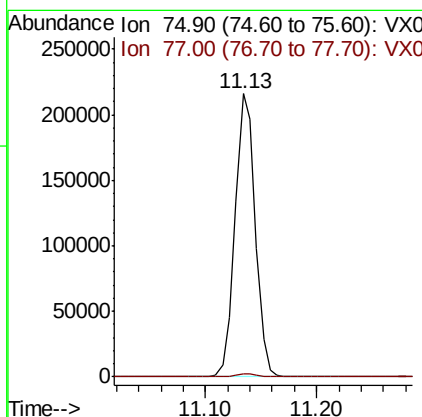
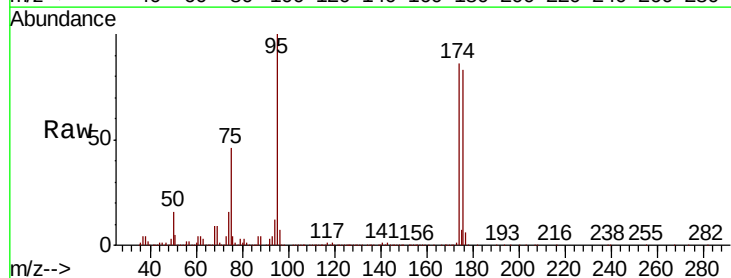
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-4

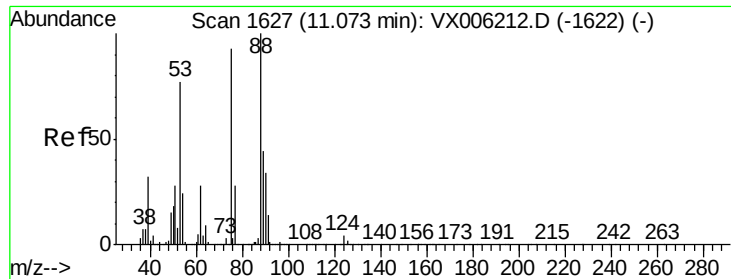
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.5  | 39.0  | 116.9 |
| 150     | 156.2 | 0.0   | 345.8 |



#76  
 1,2,3-Trichloropropane  
 Concen: 22.807 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX006225.D  
 Acq: 30 Nov 2018 12:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.2   | 19.9  | 59.7  |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 53.522 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX006225.D  
Acq: 30 Nov 2018 12:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-4

Tot Ion: 75 Resp: 270202  
Ion Ratio Lower Upper  
75 100  
53 0.1 64.4 96.6#  
89 0.0 44.2 66.4#

