

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070319\  
 Data File : VX010641.D  
 Acq On : 03 Jul 2019 15:38  
 Operator : JC/SP  
 Sample : K3635-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WP-23

Quant Time: Jul 04 04:19:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 250021   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 385140   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 349653   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 161376   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 123592   | 52.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.44% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 118710   | 50.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.76% |          |
| 50) Toluene-d8              | 8.71  | 98   | 457007   | 50.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.38% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 151643   | 46.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.18%  |          |

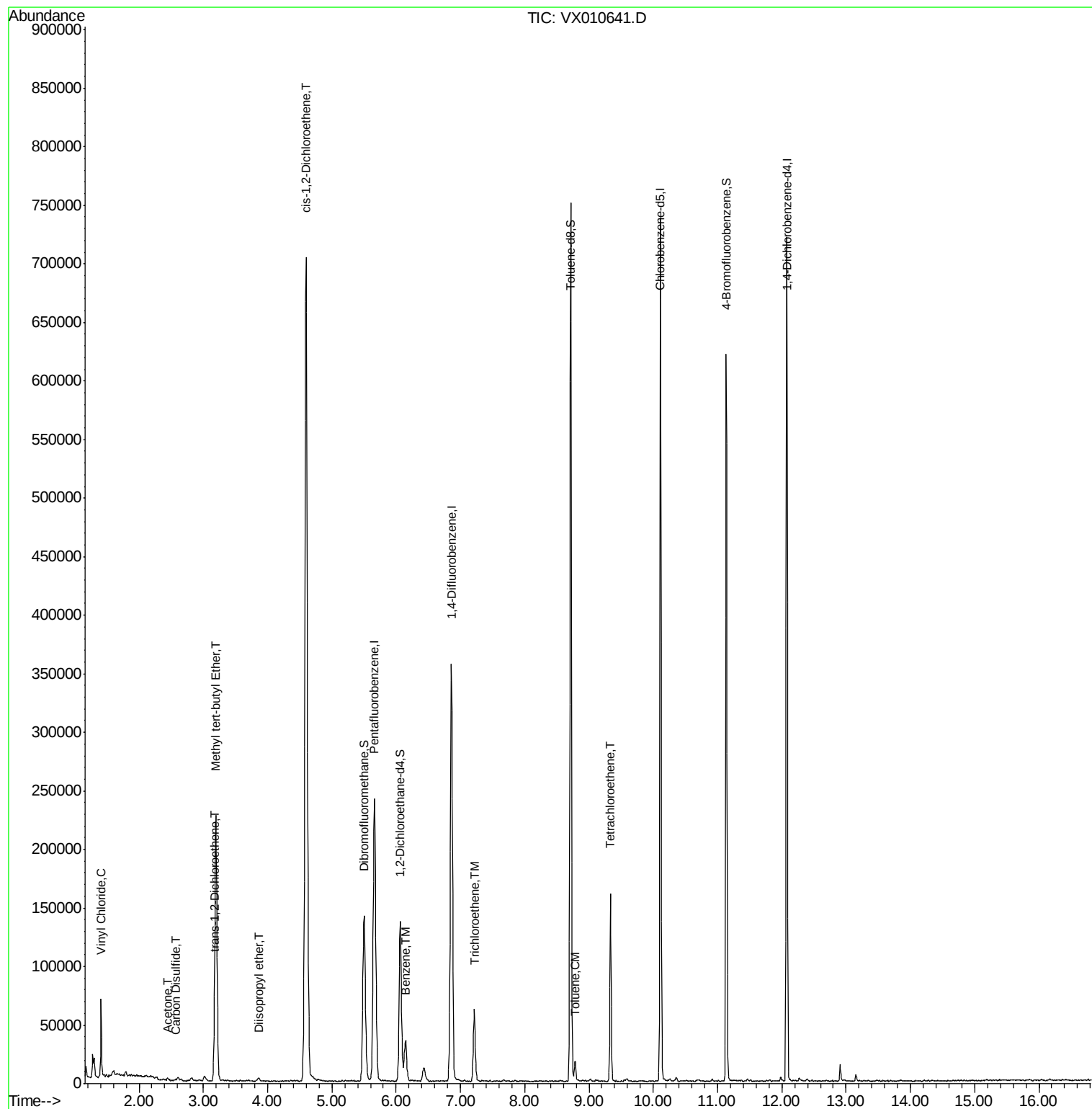
| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 4) Vinyl Chloride            | 1.41 | 62   | 40378    | 18.213  | ug/l   | 100    |
| 16) Acetone                  | 2.44 | 43   | 2876     | 2.448   | ug/l   | 94     |
| 17) Carbon Disulfide         | 2.57 | 76   | 1910     | 0.329   | ug/l # | 91     |
| 19) Methyl tert-butyl Ether  | 3.20 | 73   | 268583   | 39.396  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene | 3.17 | 96   | 1660     | 0.712   | ug/l   | 97     |
| 22) Diisopropyl ether        | 3.86 | 45   | 3337     | 0.519   | ug/l # | 68     |
| 27) cis-1,2-Dichloroethene   | 4.60 | 96   | 482609   | 179.183 | ug/l   | 92     |
| 40) Benzene                  | 6.15 | 78   | 42742    | 4.483   | ug/l   | 97     |
| 44) Trichloroethene          | 7.21 | 130  | 24049    | 8.429   | ug/l   | 96     |
| 52) Toluene                  | 8.79 | 92   | 6354     | 1.012   | ug/l   | 98     |
| 64) Tetrachloroethene        | 9.34 | 164  | 31570    | 11.163  | ug/l   | 97     |

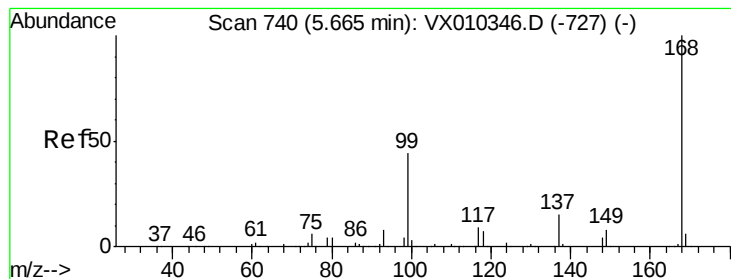
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampleId :

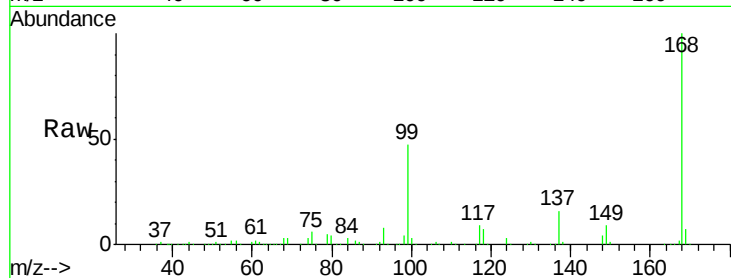
WP-23

Tot Ion:168 Resp: 250021

Ion Ratio Lower Upper

168 100

99 47.2 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

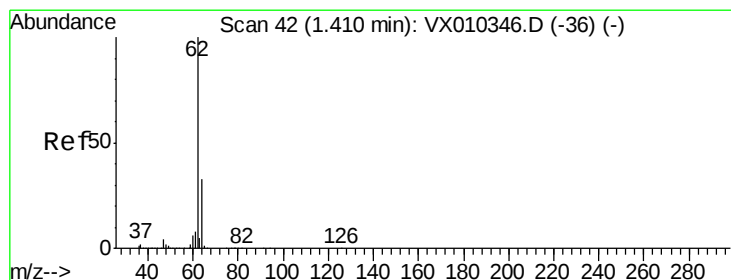
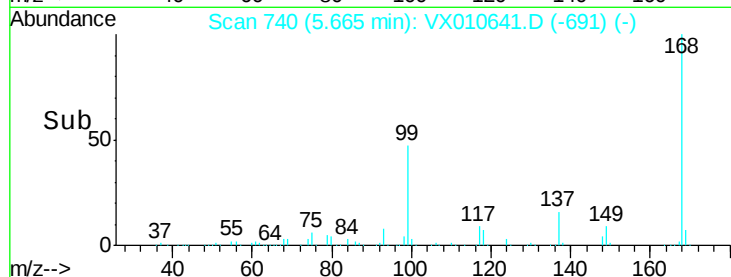
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 18.213 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010641.D

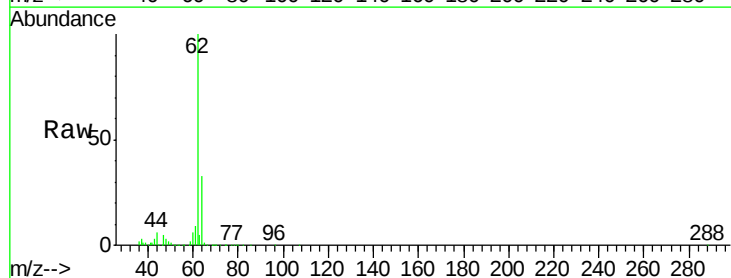
Acq: 03 Jul 2019 15:38

Tgt Ion: 62 Resp: 40378

Ion Ratio Lower Upper

62 100

64 33.0 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

40000

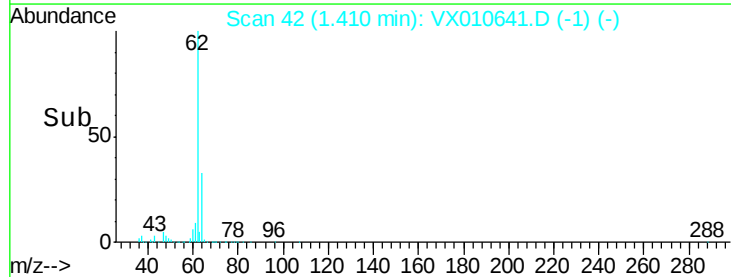
30000

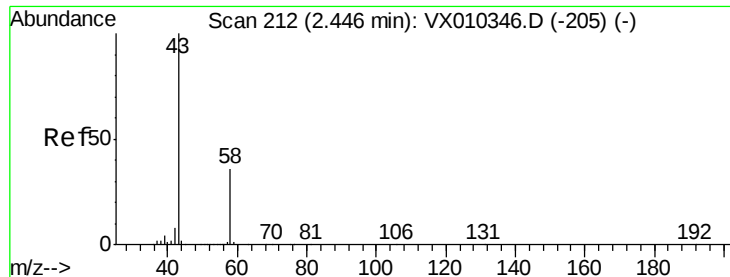
20000

10000

0

Time--> 1.35 1.40 1.45





#16

Acetone

Concen: 2.448 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampled :

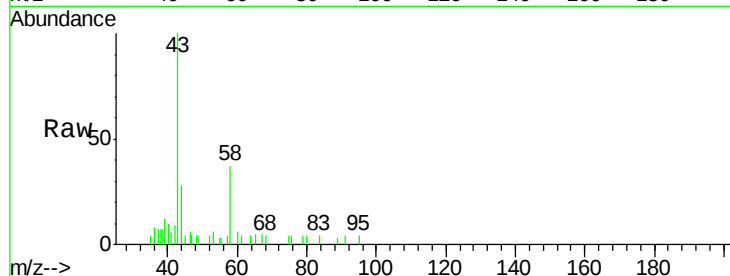
WP-23

Tot Ion: 43 Resp: 2876

Ion Ratio Lower Upper

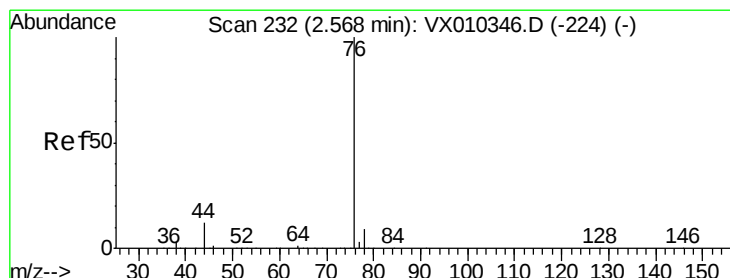
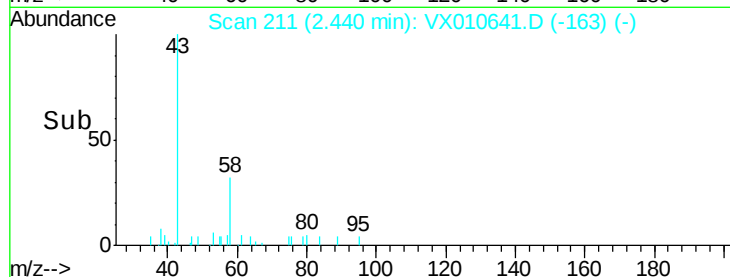
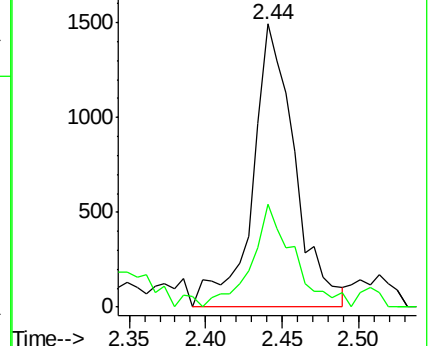
43 100

58 32.6 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.329 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010641.D

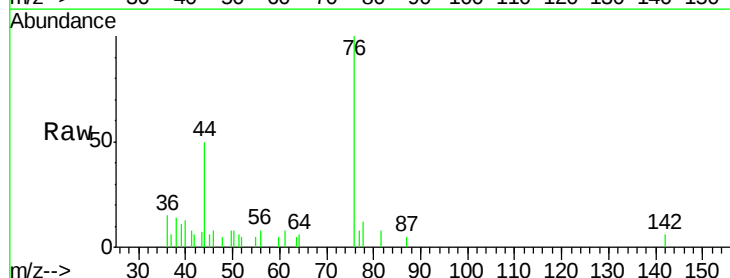
Acq: 03 Jul 2019 15:38

Tgt Ion: 76 Resp: 1910

Ion Ratio Lower Upper

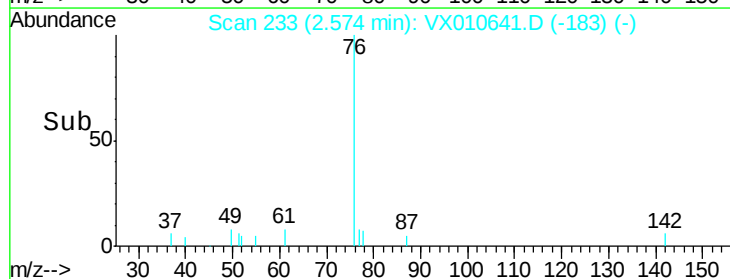
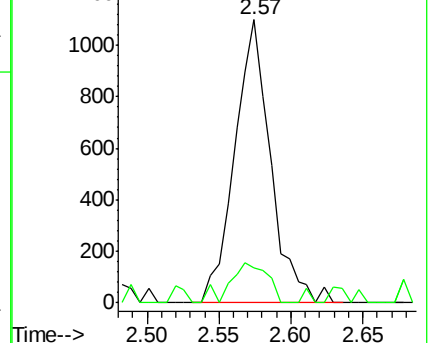
76 100

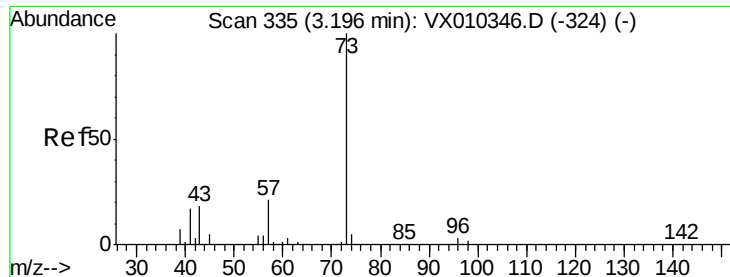
78 12.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



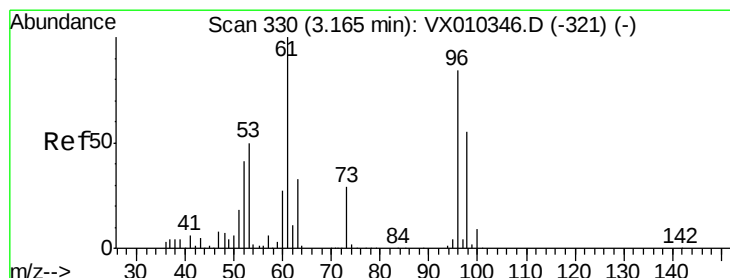
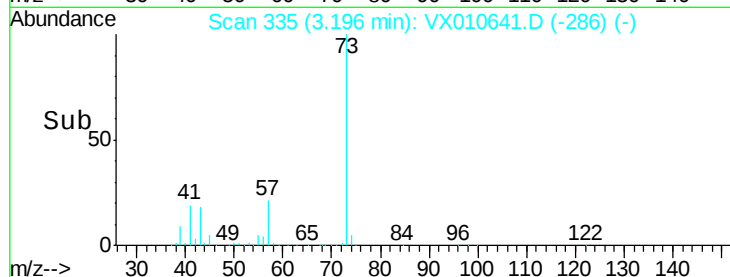
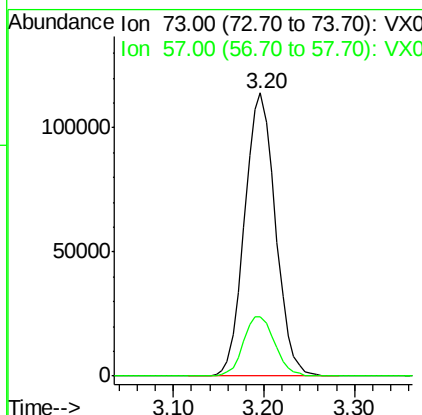
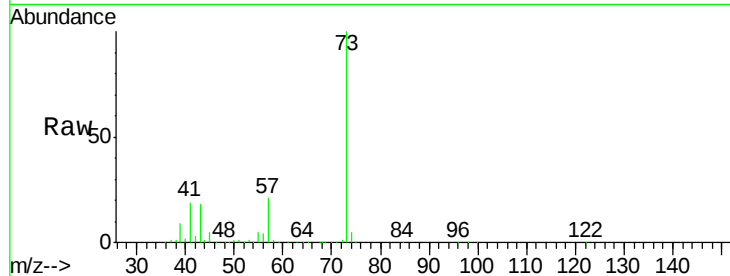


#19

Methvl tert-butvl Ether  
 Concen: 39.396 ug/l  
 RT: 3.20 min Scan# 335  
 Delta R.T. 0.00 min  
 Lab File: VX010641.D  
 Acq: 03 Jul 2019 15:38

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 WP-23

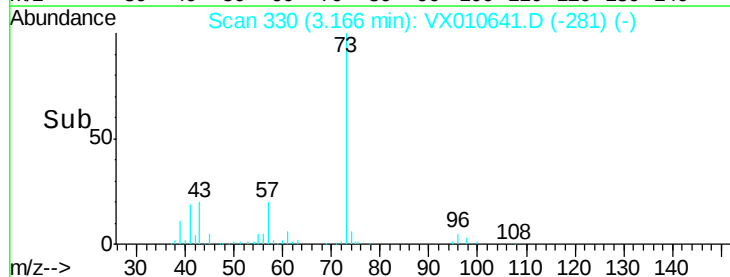
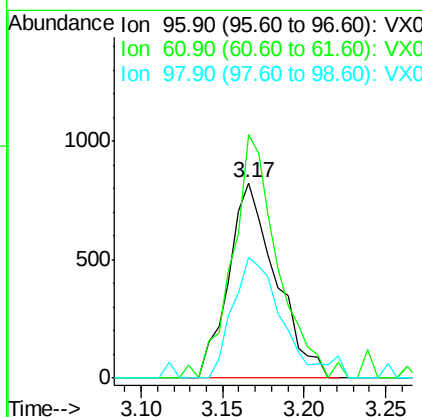
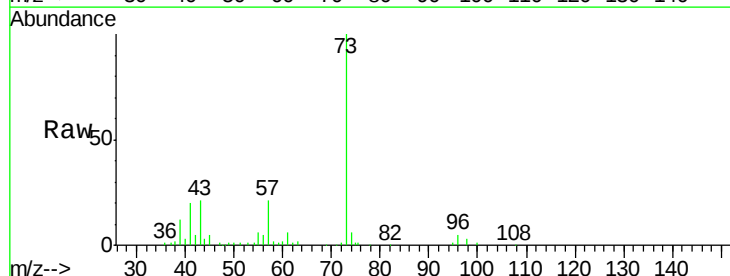
Tot Ion: 73 Resp: 268583  
 Ion Ratio Lower Upper  
 73 100  
 57 20.8 16.4 24.6

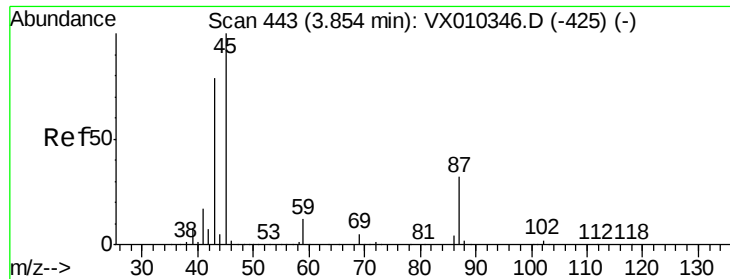


#21

trans-1,2-Dichloroethene  
 Concen: 0.712 ug/l  
 RT: 3.17 min Scan# 330  
 Delta R.T. 0.00 min  
 Lab File: VX010641.D  
 Acq: 03 Jul 2019 15:38

Tgt Ion: 96 Resp: 1660  
 Ion Ratio Lower Upper  
 96 100  
 61 118.1 95.6 143.4  
 98 61.7 52.5 78.7

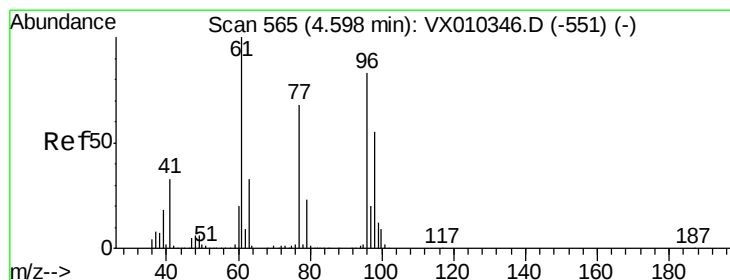
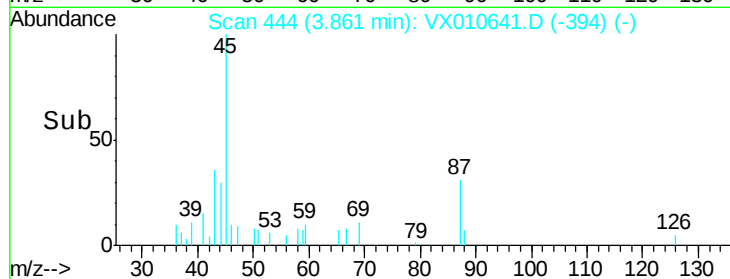
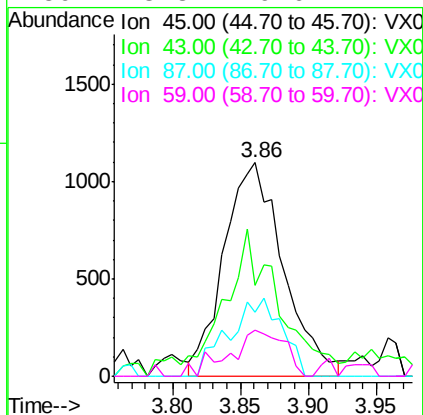
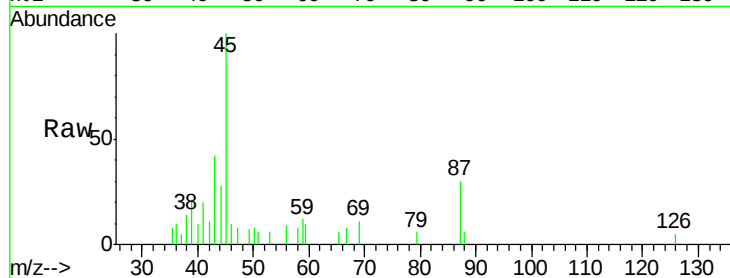




#22  
Diisopropyl ether  
Concen: 0.519 ug/l  
RT: 3.86 min Scan# 444  
Delta R.T. 0.01 min  
Lab File: VX010641.D  
Acq: 03 Jul 2019 15:38

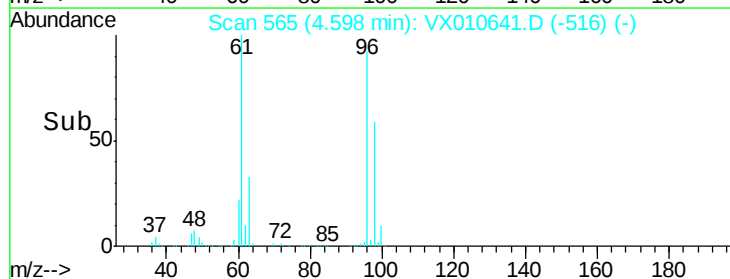
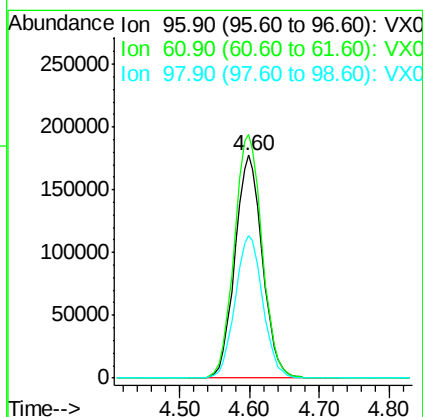
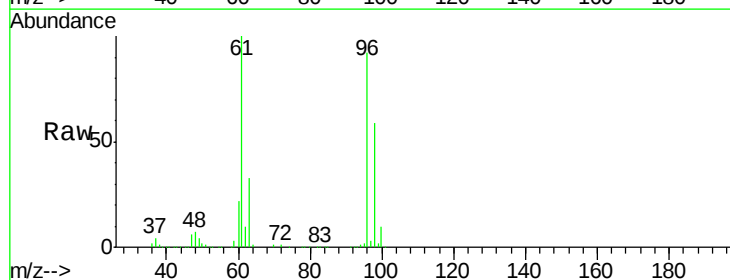
Instrument :  
MSVOA\_X  
ClientSampleId :  
WP-23

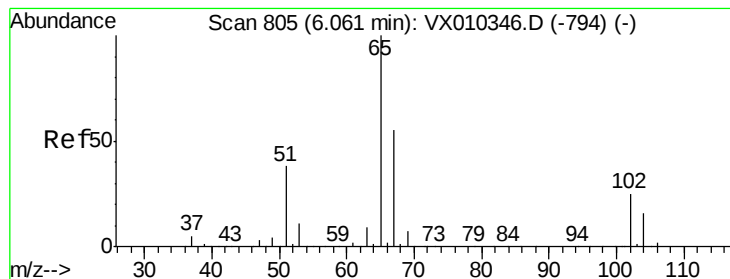
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 45    | Resp: | 3337  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 39.1  | 63.3  | 94.9# |
| 87       | 31.9  | 25.8  | 38.8  |
| 59       | 23.3  | 9.6   | 14.4# |



#27  
cis-1,2-Dichloroethene  
Concen: 179.183 ug/l  
RT: 4.60 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: VX010641.D  
Acq: 03 Jul 2019 15:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 482609 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 111.3 | 0.0   | 251.8  |
| 98       | 64.6  | 0.0   | 129.4  |





#33

1,2-Dichloroethane-d4

Concen: 52.723 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampled :

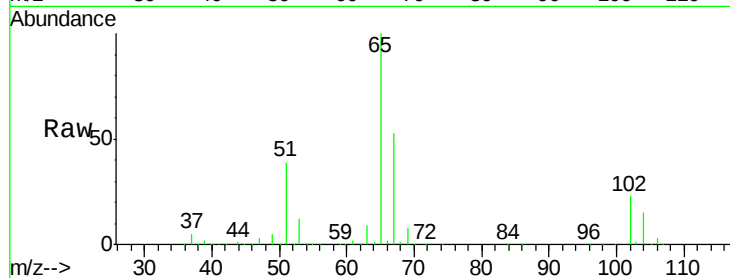
WP-23

Tot Ion: 65 Resp: 123592

Ion Ratio Lower Upper

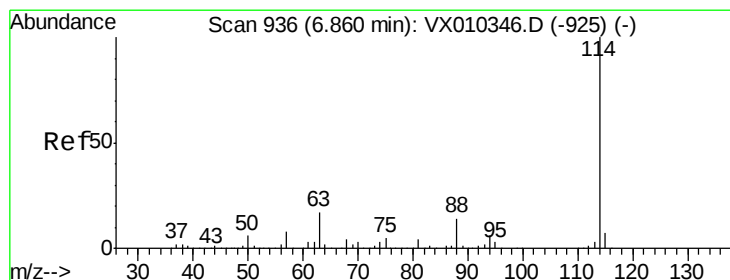
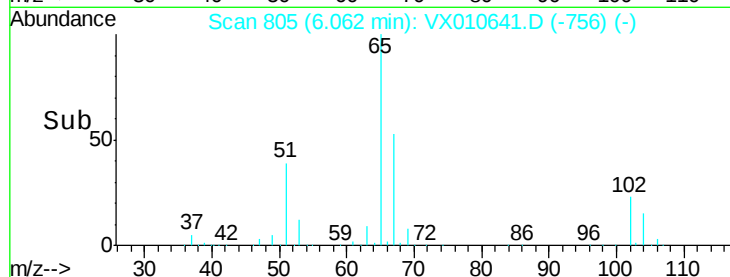
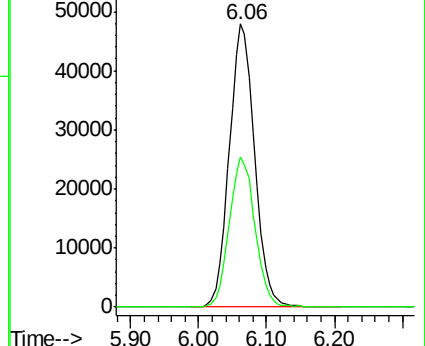
65 100

67 53.8 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

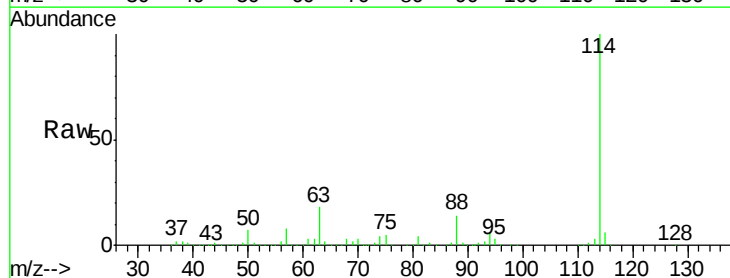
Tgt Ion: 114 Resp: 385140

Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.8

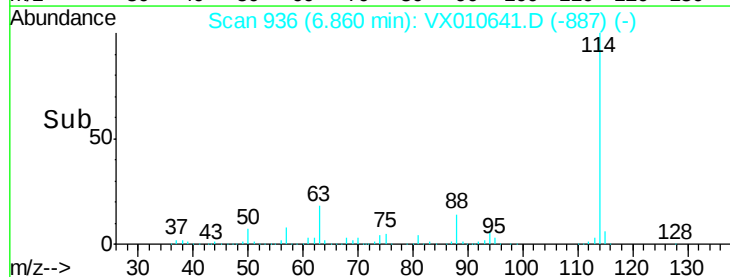
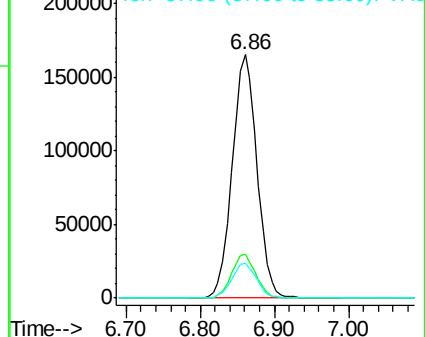
88 14.4 0.0 27.6

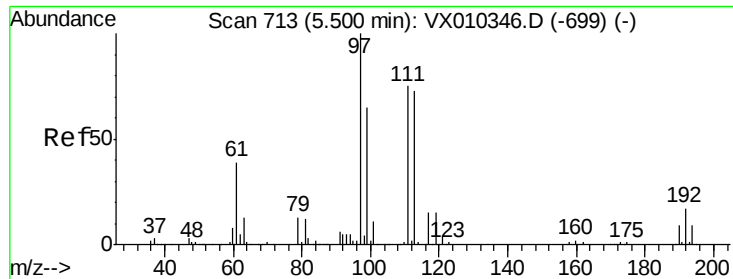


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.377 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampleId :

WP-23

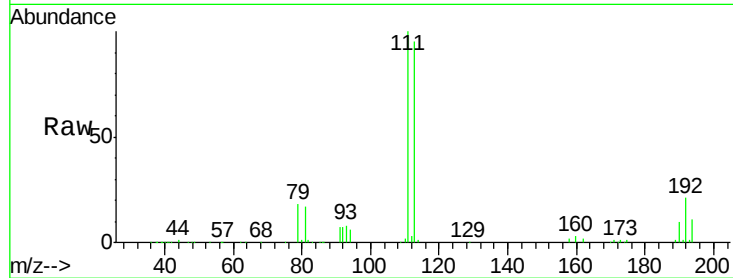
Tot Ion:113 Resp: 118710

Ion Ratio Lower Upper

113 100

111 102.9 81.2 121.8

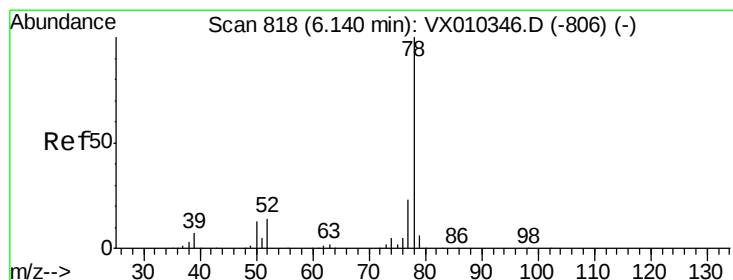
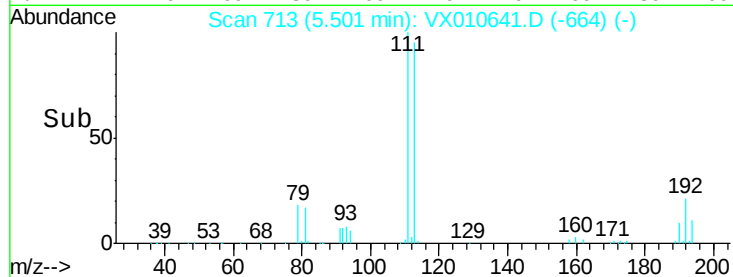
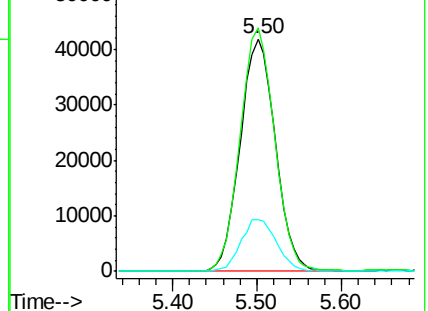
192 22.7 18.6 27.8



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



#40

Benzene

Concen: 4.483 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010641.D

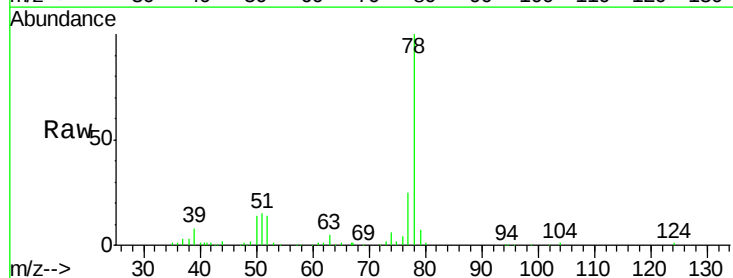
Acq: 03 Jul 2019 15:38

Tgt Ion: 78 Resp: 42742

Ion Ratio Lower Upper

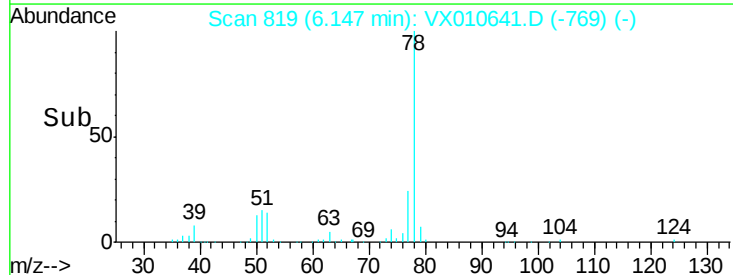
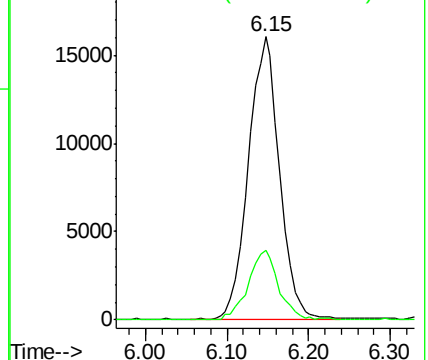
78 100

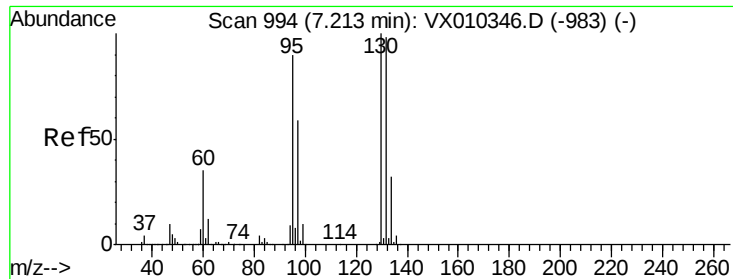
77 24.6 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 8.429 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampleId :

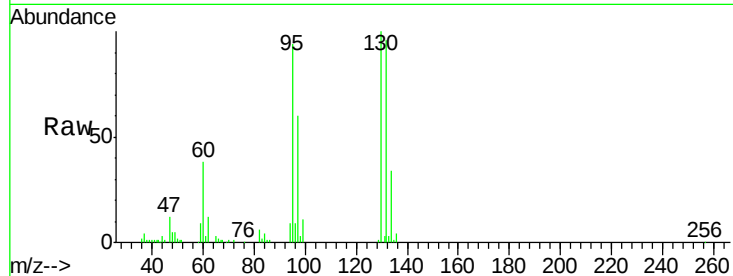
WP-23

Tot Ion:130 Resp: 24049

Ion Ratio Lower Upper

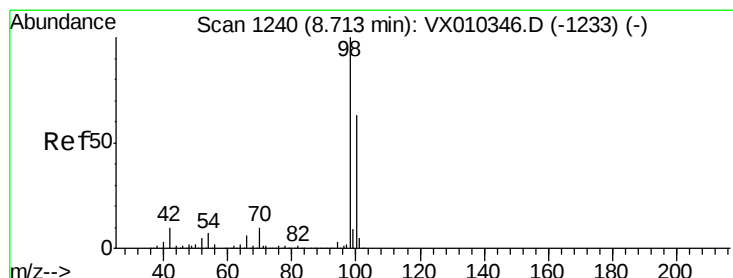
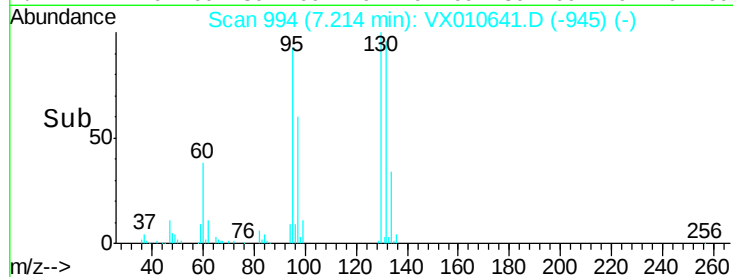
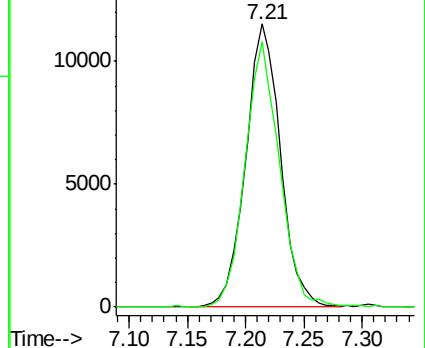
130 100

95 93.8 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.693 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010641.D

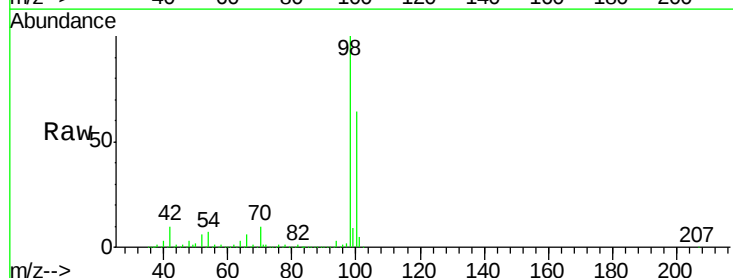
Acq: 03 Jul 2019 15:38

Tgt Ion: 98 Resp: 457007

Ion Ratio Lower Upper

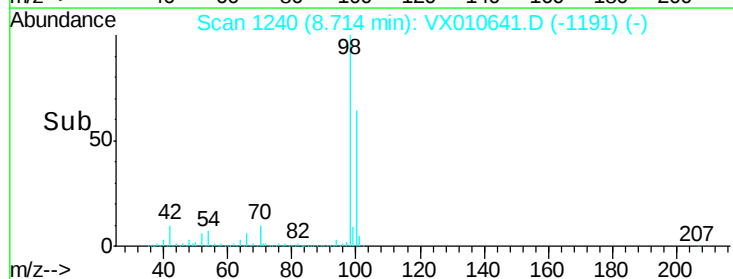
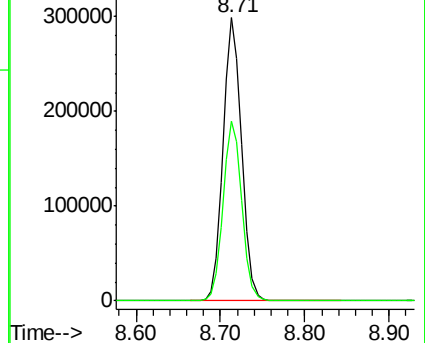
98 100

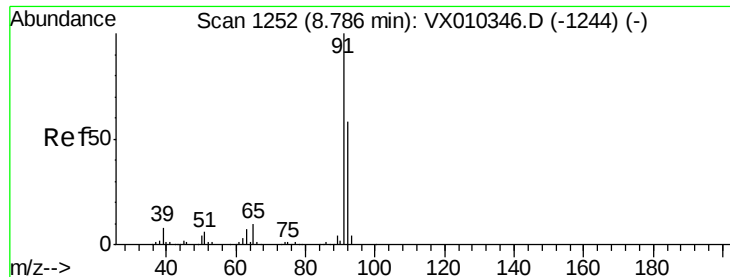
100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 1.012 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampled :

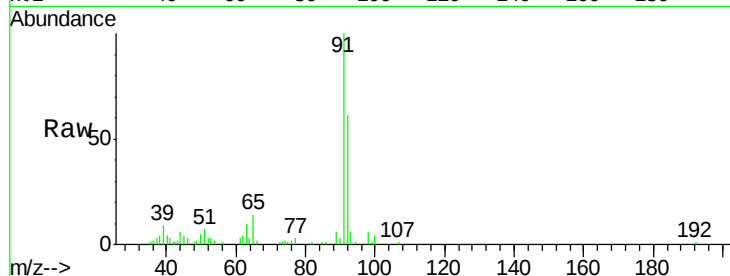
WP-23

Tot Ion: 92 Resp: 6354

Ion Ratio Lower Upper

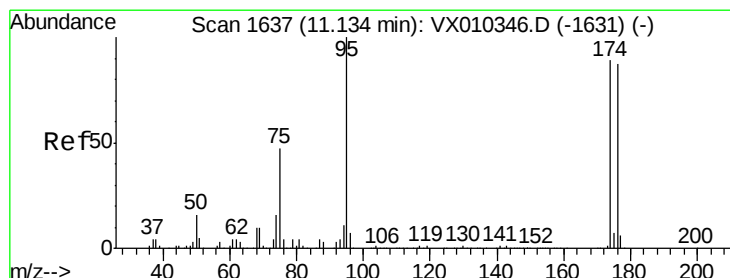
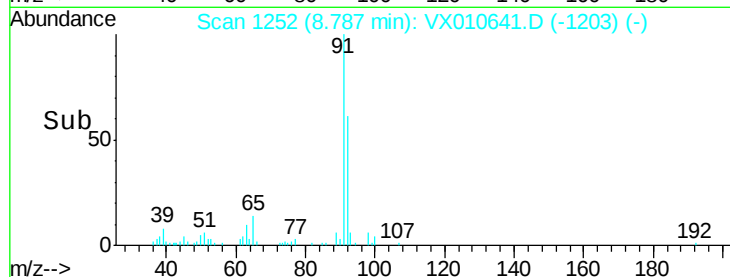
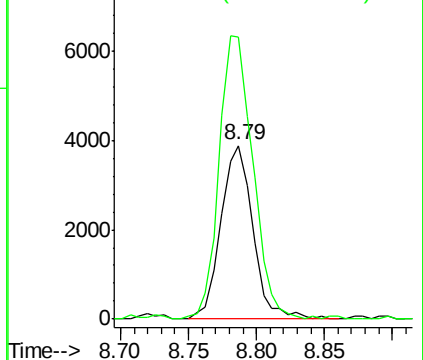
92 100

91 171.4 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.591 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

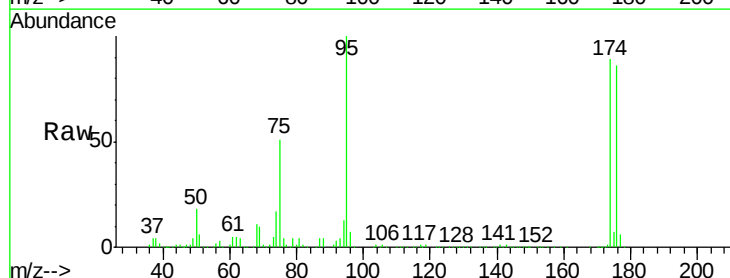
Tgt Ion: 95 Resp: 151643

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.6

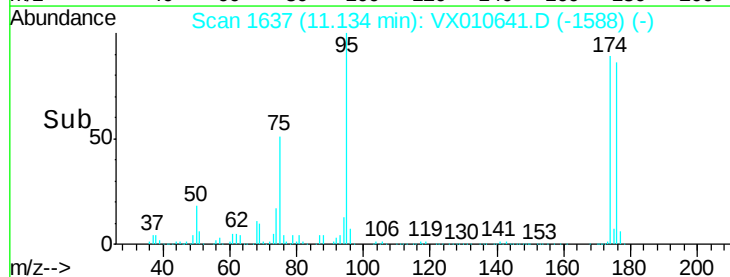
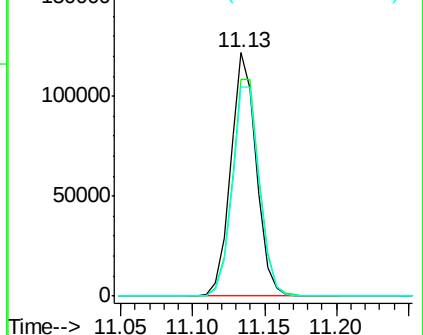
176 90.7 0.0 184.0

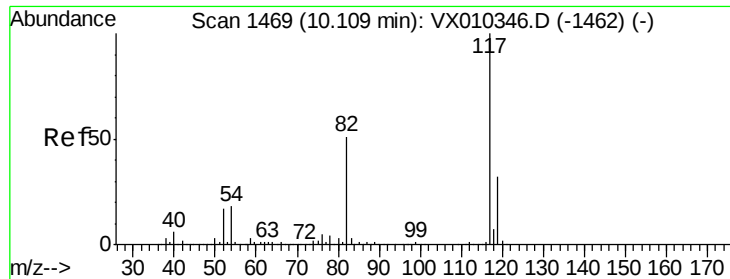


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

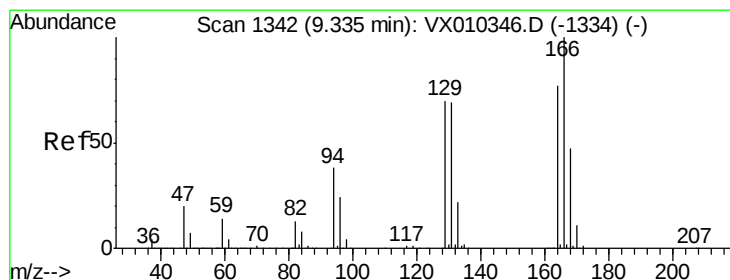
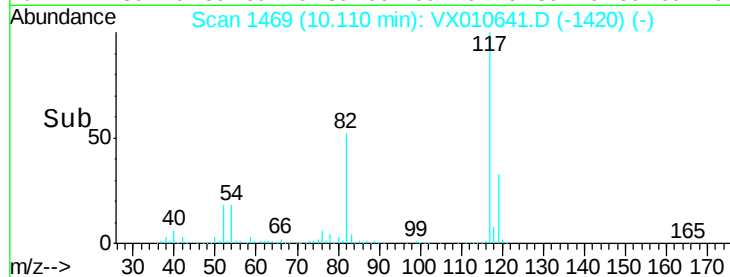
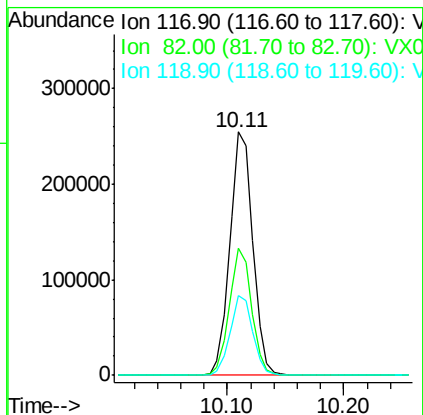
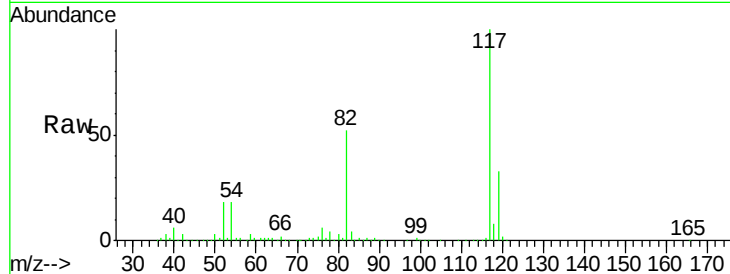




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010641.D  
Acq: 03 Jul 2019 15:38

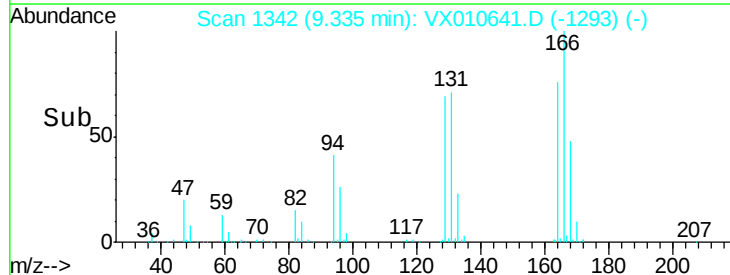
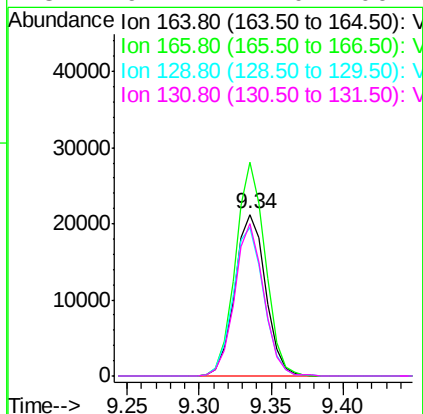
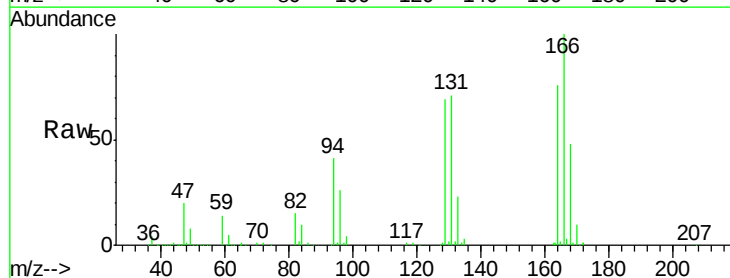
Instrument :  
MSVOA\_X  
ClientSampleId :  
WP-23

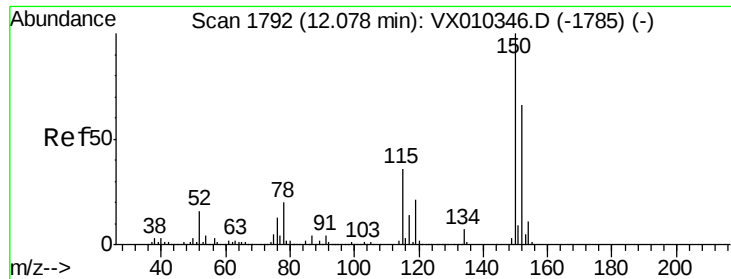
Tot Ion:117 Resp: 349653  
Ion Ratio Lower Upper  
117 100  
82 52.3 41.2 61.8  
119 32.7 25.5 38.3



#64  
Tetrachloroethene  
Concen: 11.163 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX010641.D  
Acq: 03 Jul 2019 15:38

Tgt Ion:164 Resp: 31570  
Ion Ratio Lower Upper  
164 100  
166 132.3 103.6 155.4  
129 91.7 73.0 109.4  
131 94.1 71.0 106.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010641.D

Acq: 03 Jul 2019 15:38

Instrument :

MSVOA\_X

ClientSampleId :

WP-23

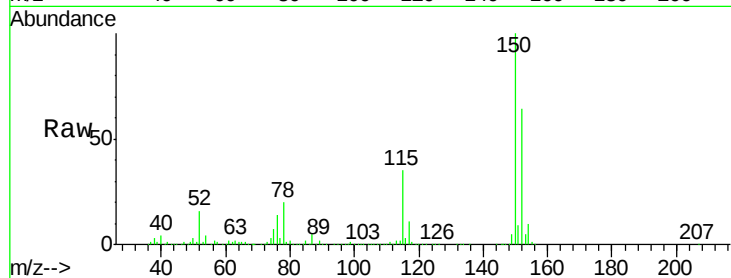
Tot Ion:152 Resp: 161376

Ion Ratio Lower Upper

152 100

115 54.9 38.6 115.7

150 156.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

