

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX040419\  
 Data File : VX008632.D  
 Acq On : 04 Apr 2019 13:47  
 Operator : JC/SP  
 Sample : K2242-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-02

Quant Time: Apr 05 07:04:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 214477   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 364221   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 306860   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 122728   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 152232   | 48.66 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.32% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 110882   | 47.62 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.24% |      |
| 50) Toluene-d8              | 8.71   | 98  | 450143   | 48.55 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.10% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 148722   | 45.23 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.46% |      |

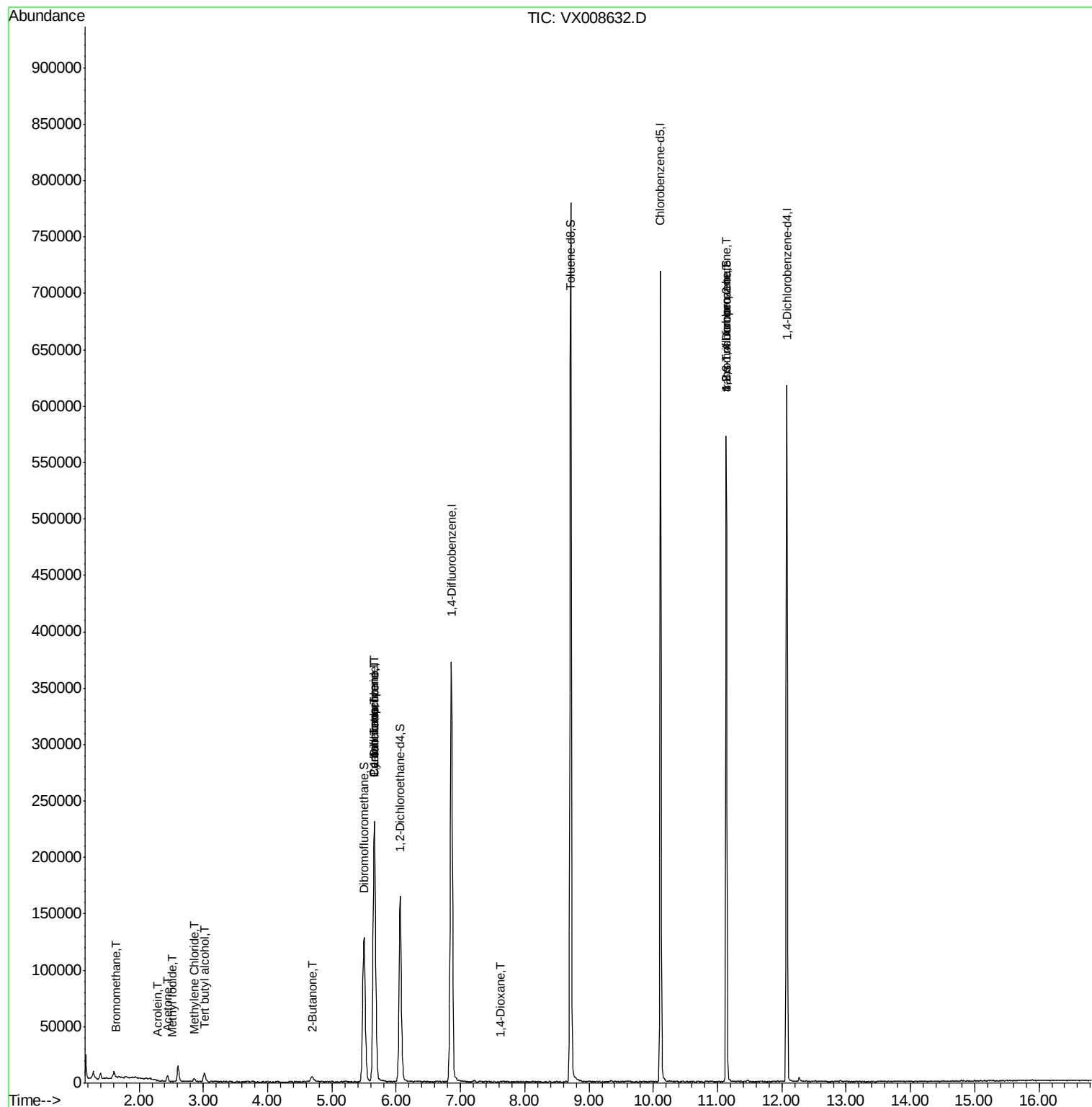
| Target Compounds               | R.T.  | QIon | Response | Conc          | Units | Qvalue |
|--------------------------------|-------|------|----------|---------------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 626      | Below Cal     |       | 96     |
| 5) Bromomethane                | 1.64  | 94   | 374      | 2.104 ug/l #  |       | 61     |
| 6) Chloroethane                | 1.70  | 64   | 152      | Below Cal #   |       | 43     |
| 10) Methyl Iodide              | 2.52  | 142  | 120      | 4.054 ug/l #  |       | 65     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 5086     | 6.945 ug/l #  |       | 78     |
| 13) Acrolein                   | 2.29  | 56   | 91       | 0.251 ug/l #  |       | 1      |
| 16) Acetone                    | 2.44  | 43   | 5746     | 3.189 ug/l    |       | 90     |
| 17) Carbon Disulfide           | 2.57  | 76   | 648      | Below Cal #   |       | 76     |
| 20) Methylene Chloride         | 2.86  | 84   | 1198     | 0.397 ug/l    |       | 96     |
| 25) 2-Butanone                 | 4.69  | 43   | 1230     | 0.432 ug/l #  |       | 53     |
| 28) Bromochloromethane         | 5.01  | 49   | 118      | Below Cal #   |       | 22     |
| 31) Cyclohexane                | 5.65  | 56   | 5314     | 0.983 ug/l #  |       | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 18112    | 4.549 ug/l #  |       | 51     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 21173    | 6.425 ug/l #  |       | 18     |
| 49) 1,4-Dioxane                | 7.61  | 88   | 19       | 0.241 ug/l #  |       | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 76691    | 22.747 ug/l # |       | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 76691    | 62.704 ug/l # |       | 9      |

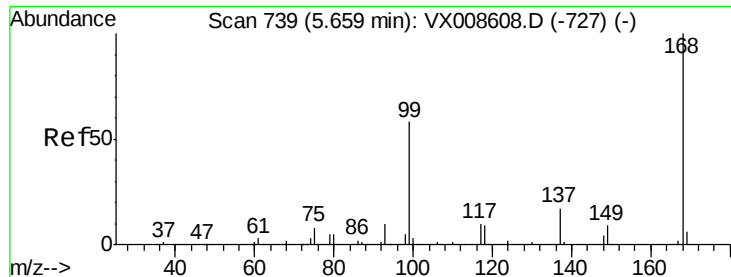
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX040419\  
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Instrument :  
MSVOA\_X  
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TWP-02

Quant Time: Apr 05 07:04:25 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampleId :

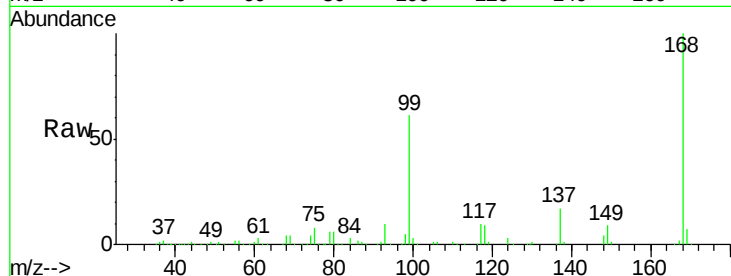
TWP-02

Tgt Ion:168 Resp: 214477

Ion Ratio Lower Upper

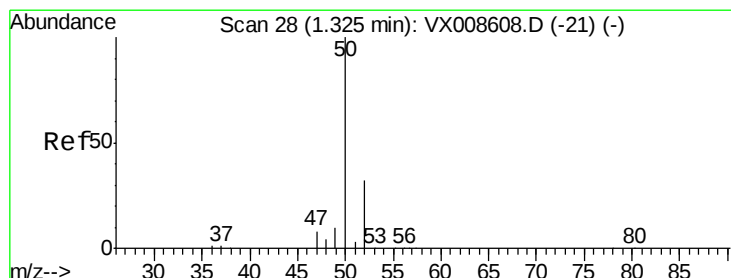
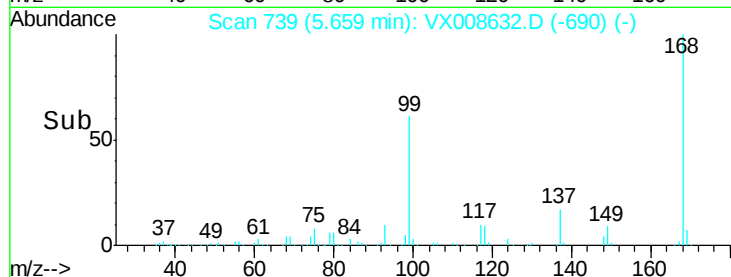
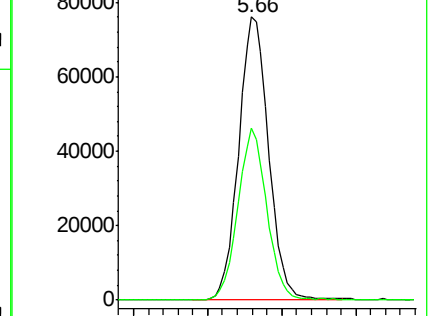
168 100

99 60.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008632.D

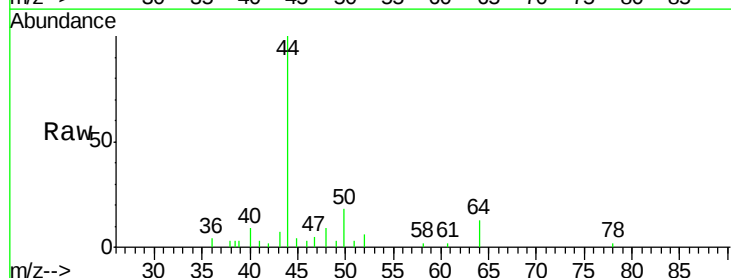
Acq: 04 Apr 2019 13:47

Tgt Ion: 50 Resp: 626

Ion Ratio Lower Upper

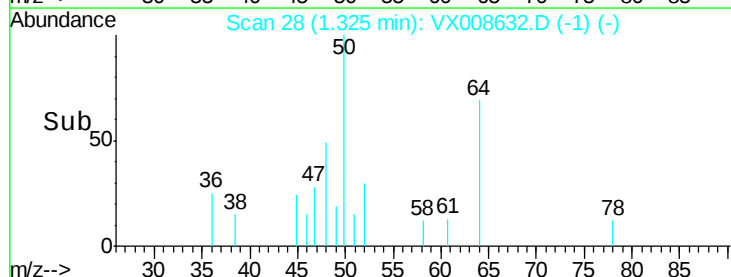
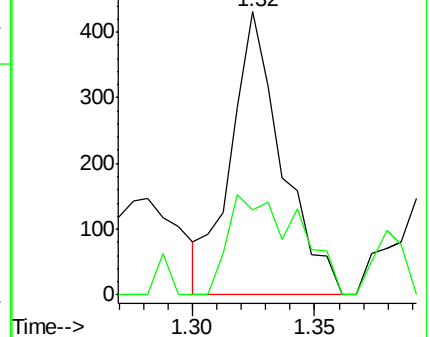
50 100

52 30.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.104 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampled :

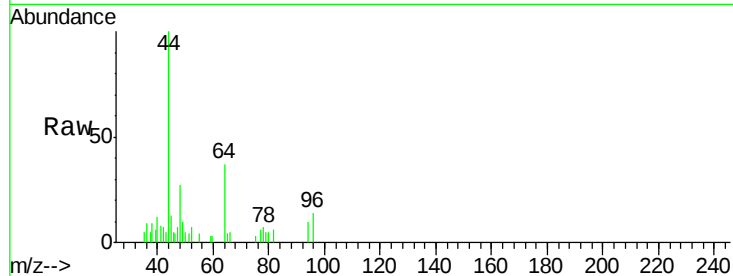
TWP-02

Tgt Ion: 94 Resp: 374

Ion Ratio Lower Upper

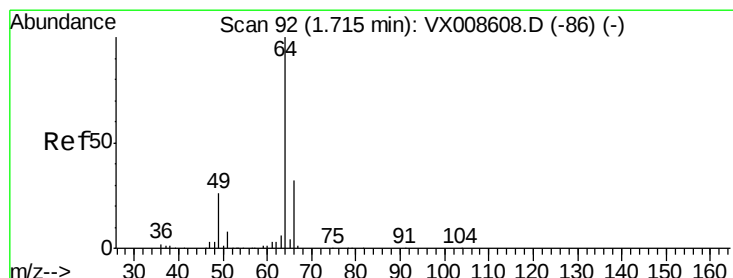
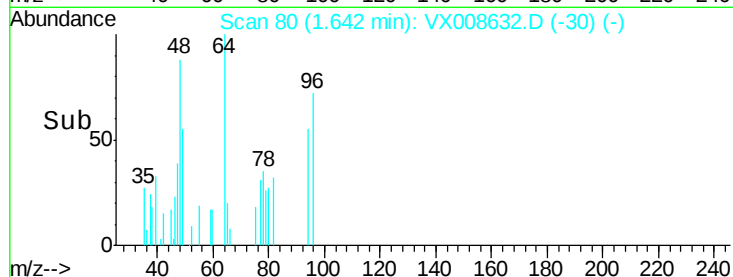
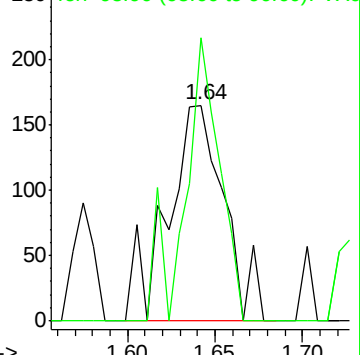
94 100

96 131.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX008632.D

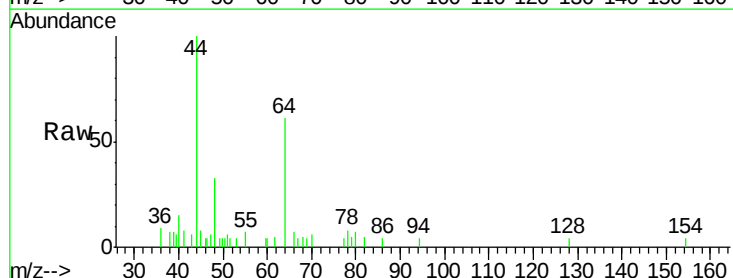
Acq: 04 Apr 2019 13:47

Tgt Ion: 64 Resp: 152

Ion Ratio Lower Upper

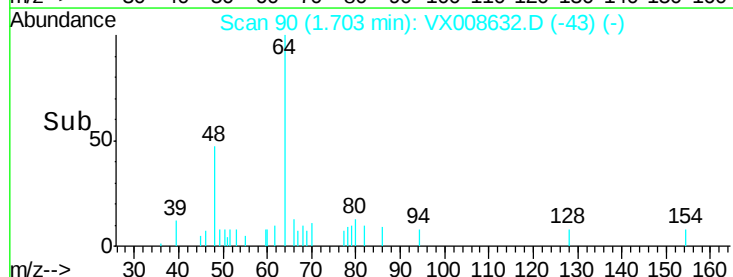
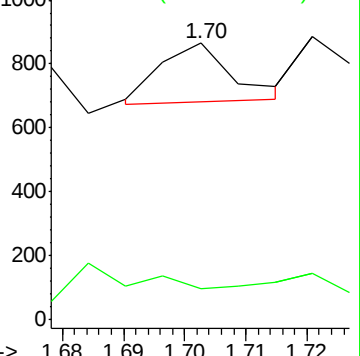
64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

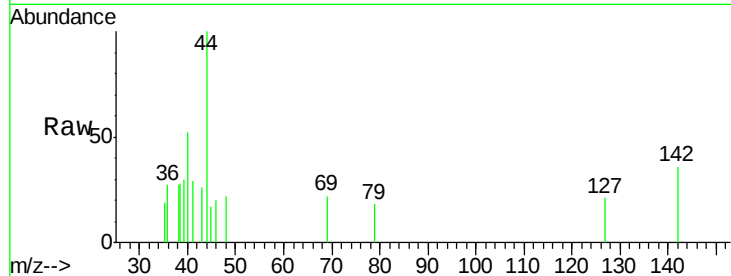




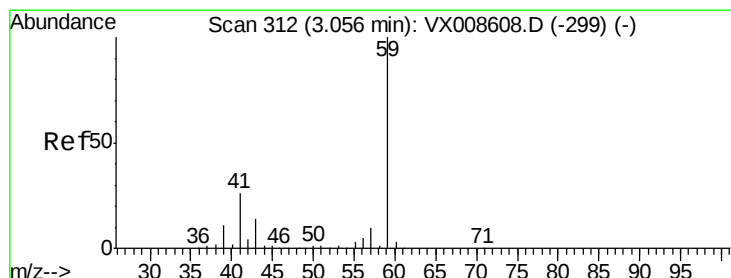
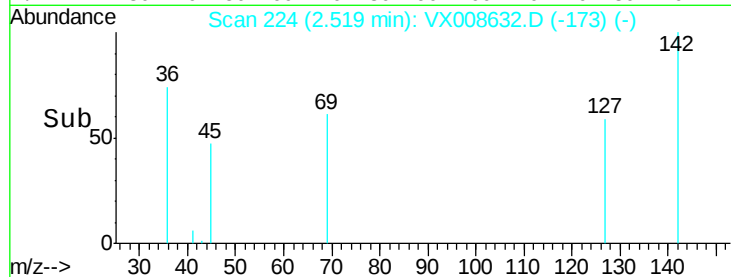
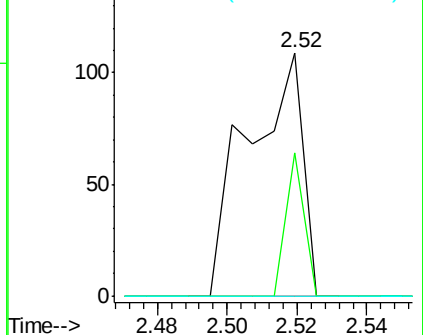
#10  
Methyl Iodide  
Concen: 4.054 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX008632.D  
Acq: 04 Apr 2019 13:47

Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-02

Tgt Ion: 142 Resp: 120  
Ion Ratio Lower Upper  
142 100  
127 19.2 33.0 49.6#  
141 0.0 11.4 17.2#

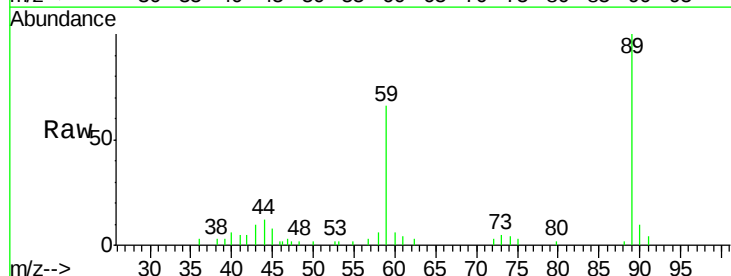


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

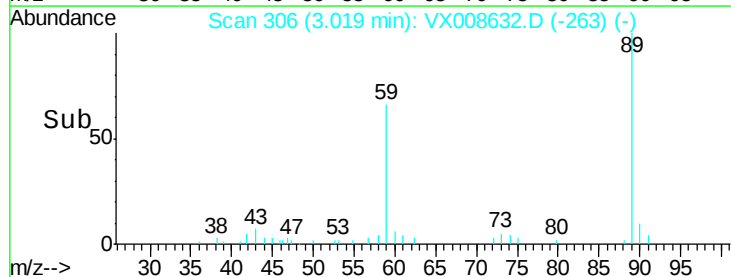
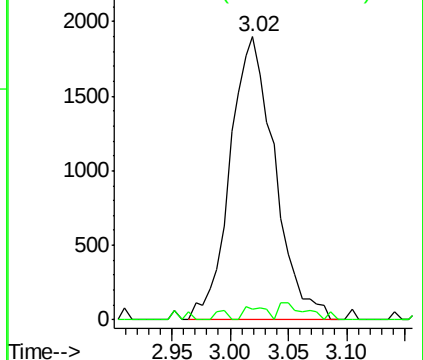


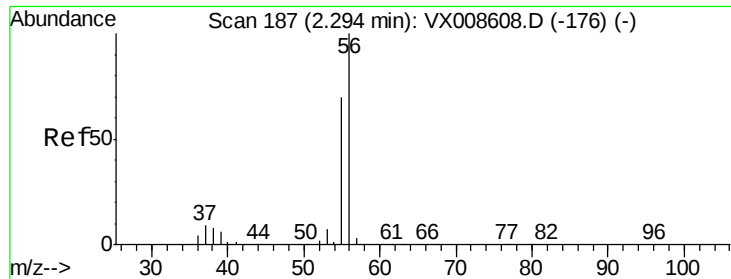
#11  
Tert butyl alcohol  
Concen: 6.945 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.04 min  
Lab File: VX008632.D  
Acq: 04 Apr 2019 13:47

Tgt Ion: 59 Resp: 5086  
Ion Ratio Lower Upper  
59 100  
57 2.3 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.251 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampled :

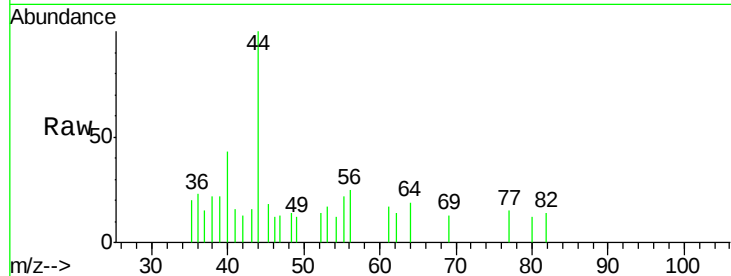
TWP-02

Tgt Ion: 56 Resp: 91

Ion Ratio Lower Upper

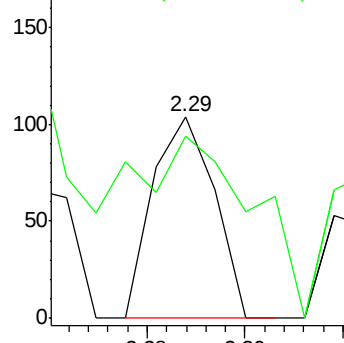
56 100

55 176.9 58.0 87.0#

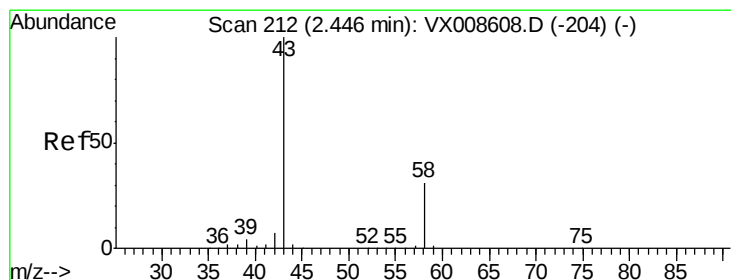
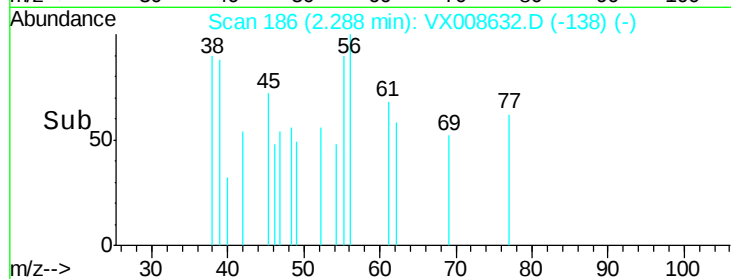


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 3.189 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008632.D

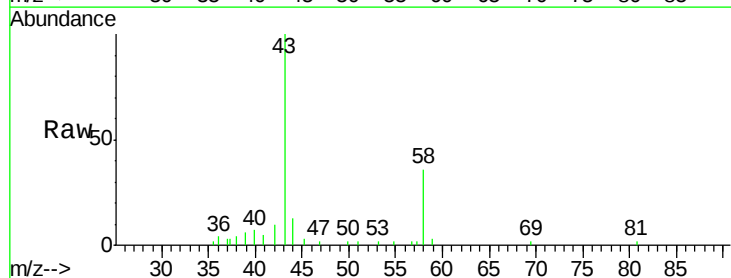
Acq: 04 Apr 2019 13:47

Tgt Ion: 43 Resp: 5746

Ion Ratio Lower Upper

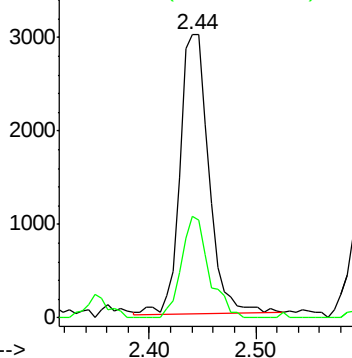
43 100

58 36.7 24.8 37.2

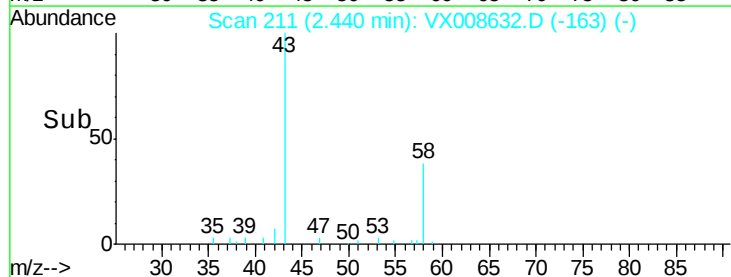


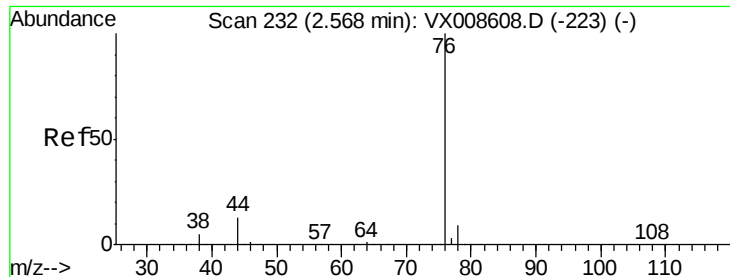
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampleId :

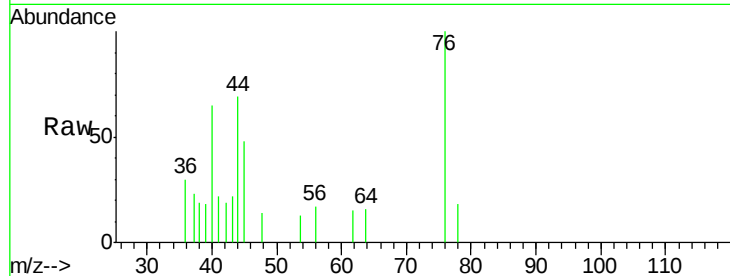
TWP-02

Tgt Ion: 76 Resp: 648

Ion Ratio Lower Upper

76 100

78 17.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

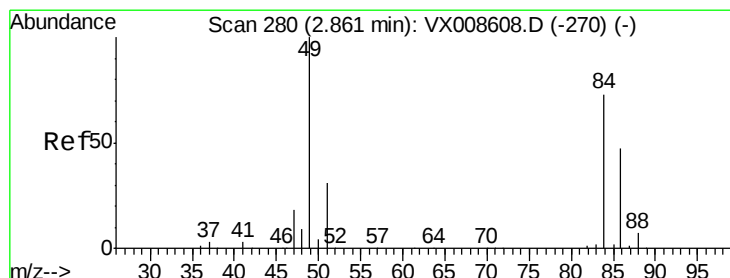
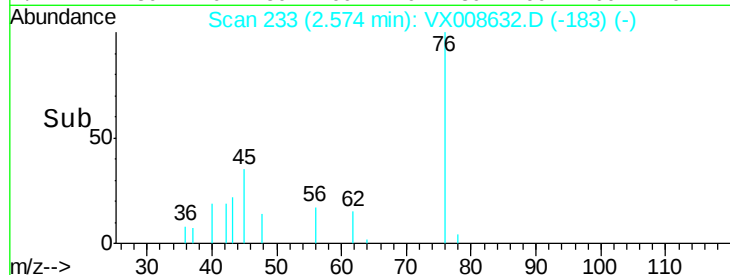
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.397 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Tgt Ion: 84 Resp: 1198

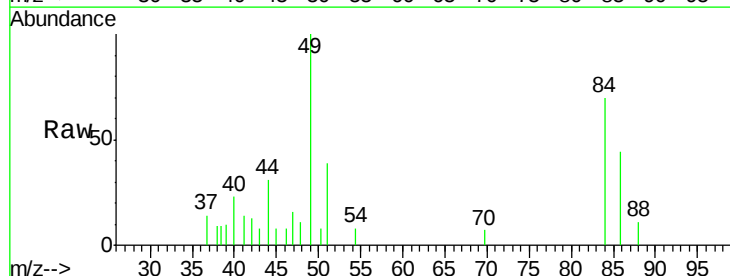
Ion Ratio Lower Upper

84 100

49 132.2 109.7 164.5

51 46.1 33.6 50.4

86 63.2 51.4 77.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

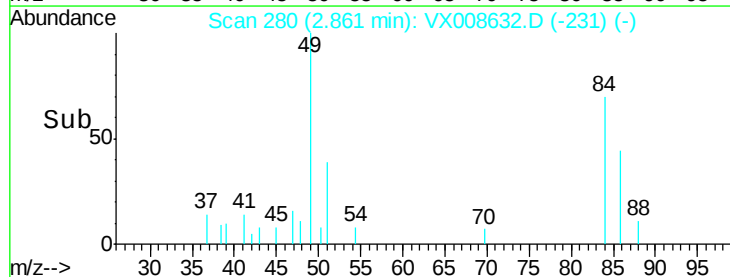
Ion 85.90 (85.60 to 86.60): VX0

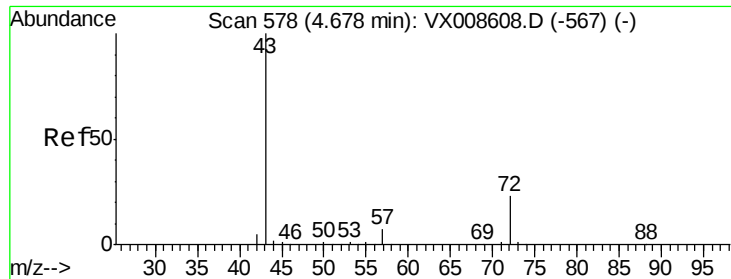
1000

500

0

Time-->





#25

2-Butanone

Concen: 0.432 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampled :

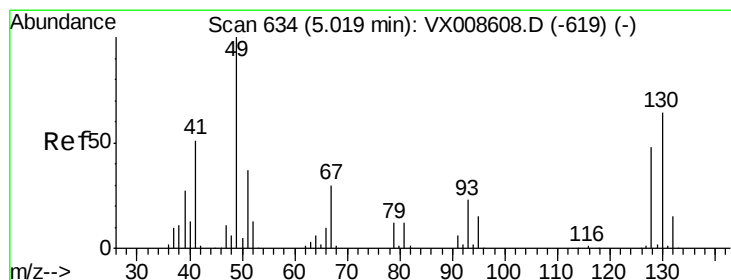
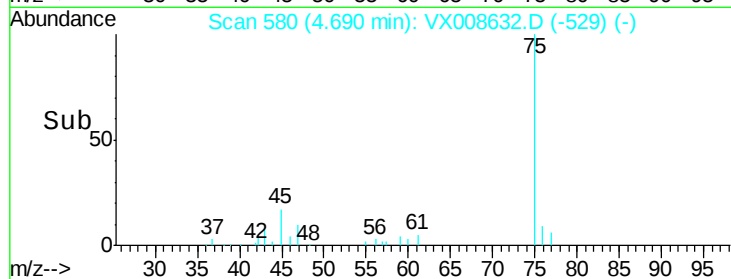
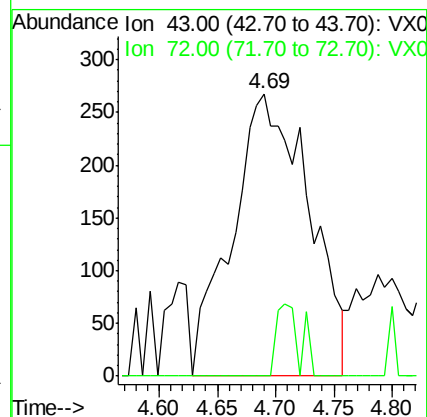
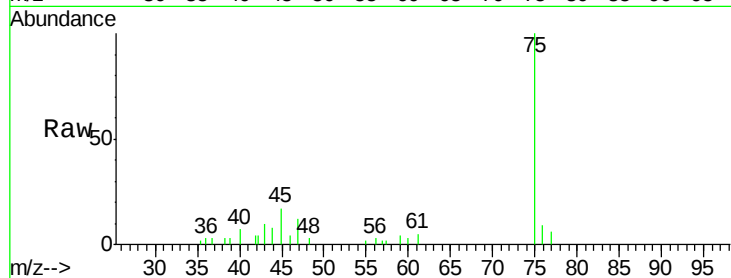
TWP-02

Tgt Ion: 43 Resp: 1230

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.4#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

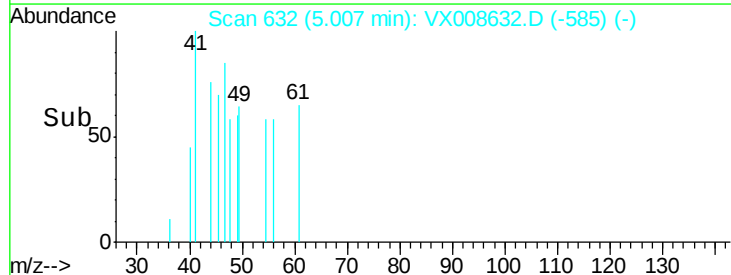
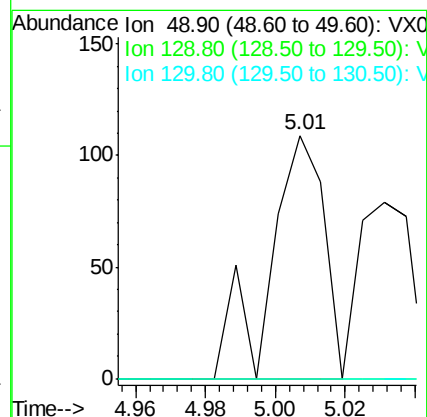
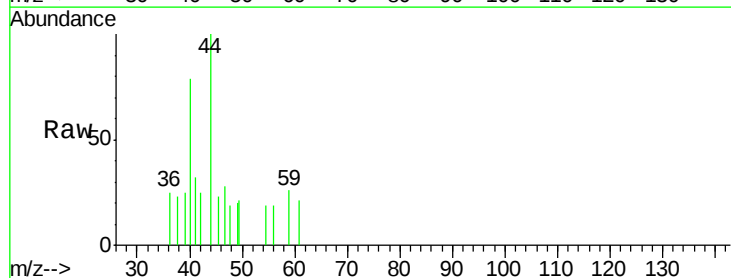
Tgt Ion: 49 Resp: 118

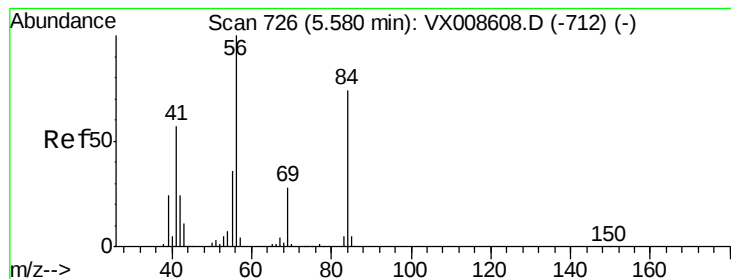
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#





#31

Cyclohexane

Concen: 0.983 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampled :

TWP-02

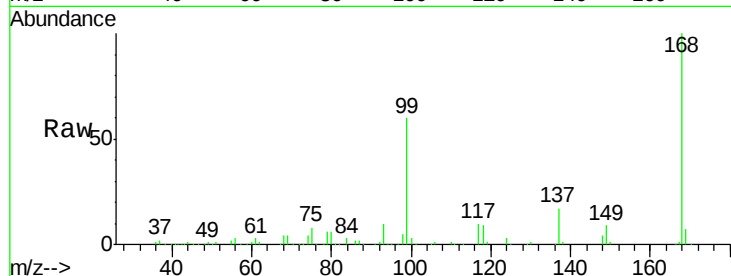
Tgt Ion: 56 Resp: 5314

Ion Ratio Lower Upper

56 100

69 157.0 22.6 33.8#

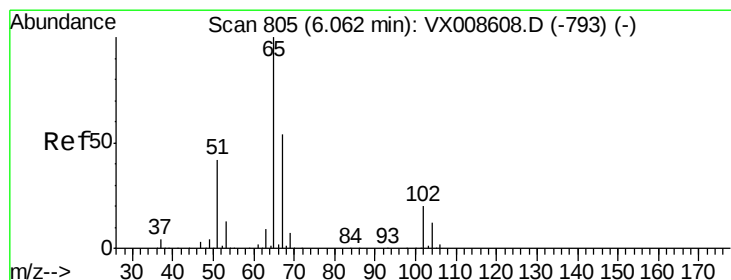
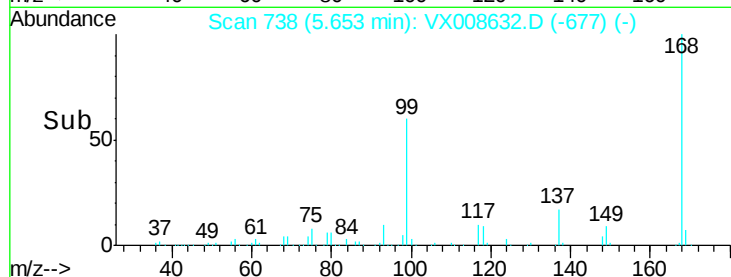
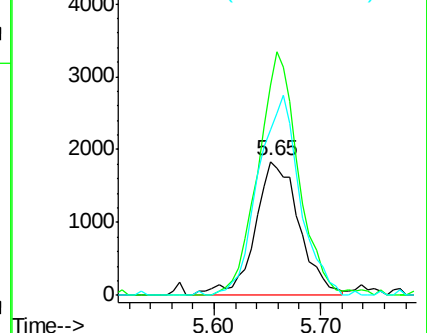
84 123.2 59.3 88.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.663 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008632.D

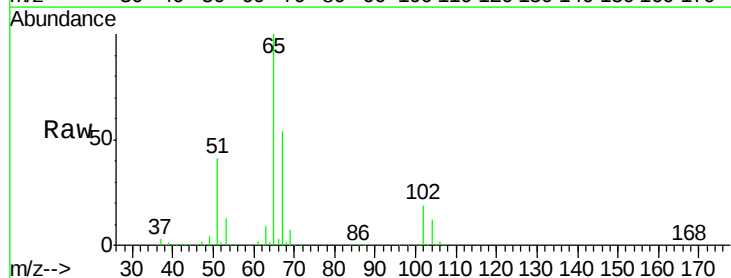
Acq: 04 Apr 2019 13:47

Tgt Ion: 65 Resp: 152232

Ion Ratio Lower Upper

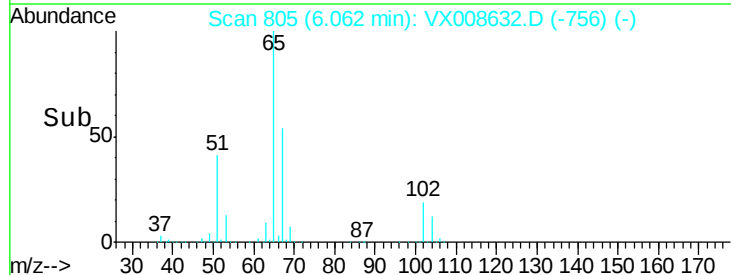
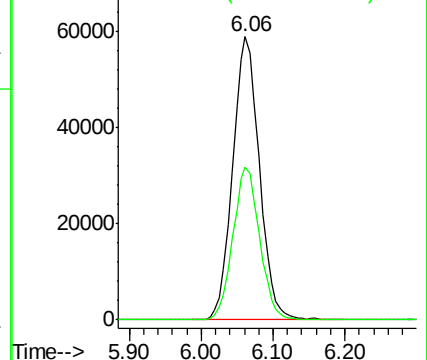
65 100

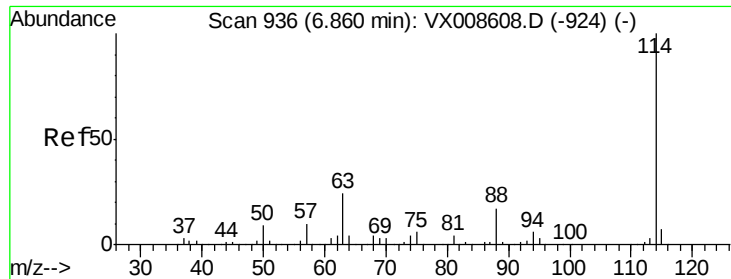
67 53.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

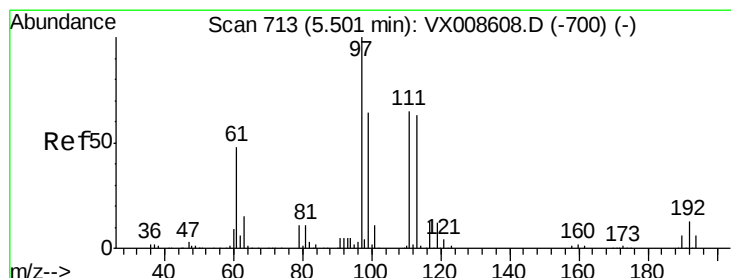
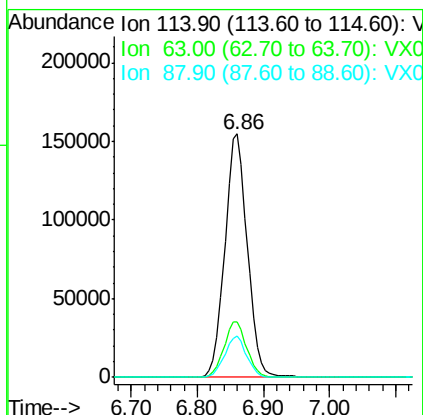
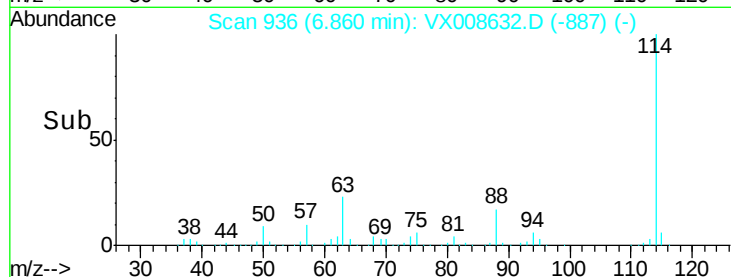
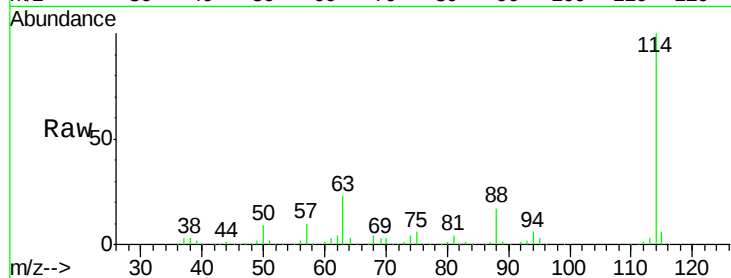




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008632.D  
 Acq: 04 Apr 2019 13:47

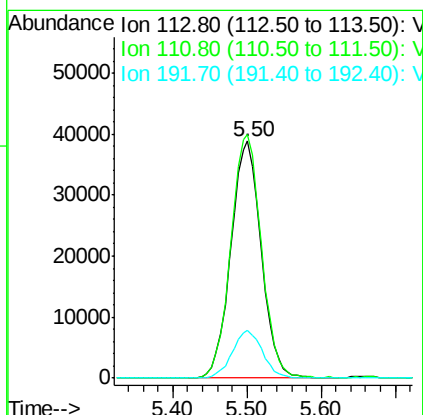
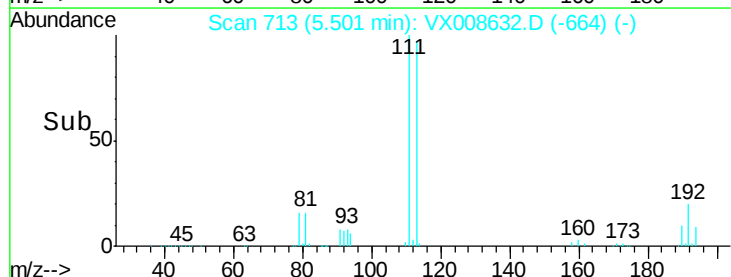
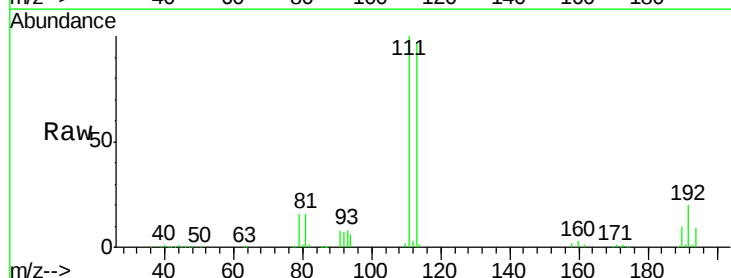
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-02

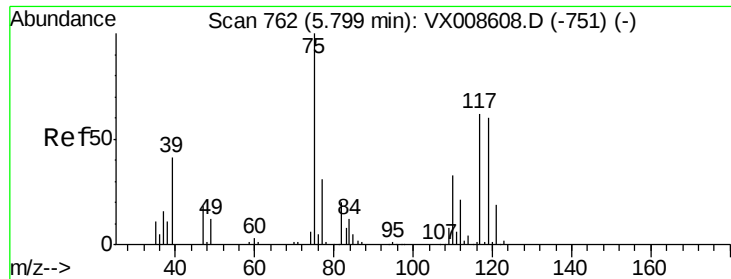
Tgt Ion:114 Resp: 364221  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 47.2  
 88 17.0 0.0 34.0



#35  
 Dibromofluoromethane  
 Concen: 47.616 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX008632.D  
 Acq: 04 Apr 2019 13:47

Tgt Ion:113 Resp: 110882  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 83.4 125.2  
 192 20.1 16.1 24.1

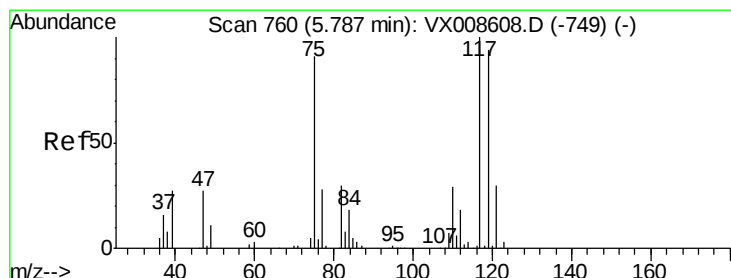
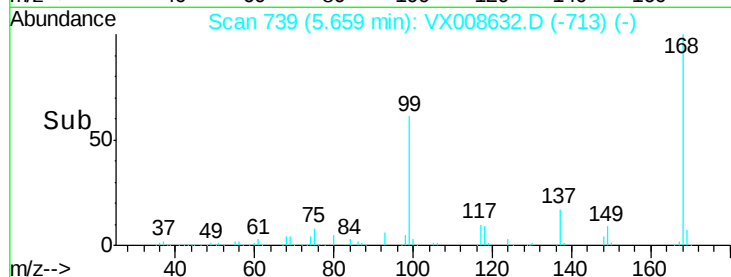
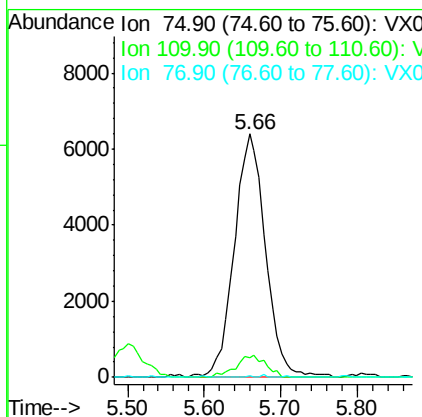
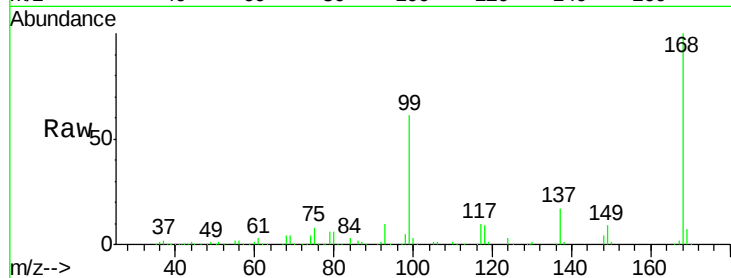




#36  
 1,1-Dichloropropene  
 Concen: 4.549 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX008632.D  
 Acq: 04 Apr 2019 13:47

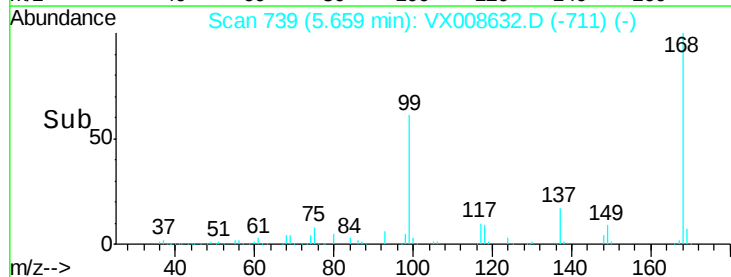
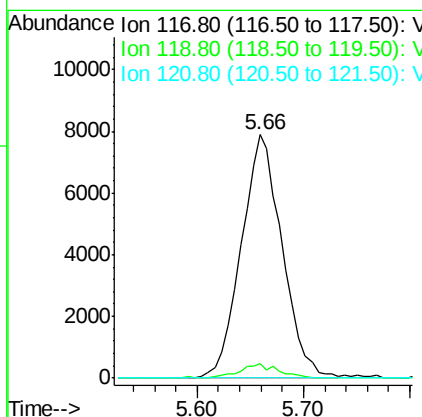
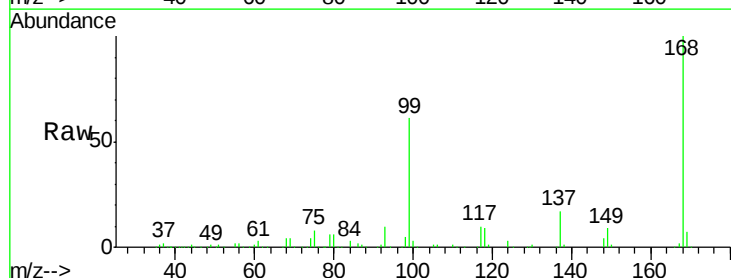
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TWP-02

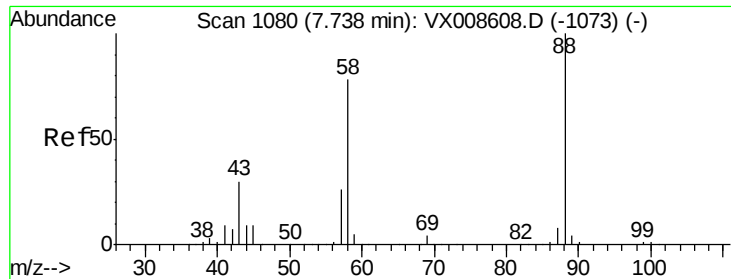
Tgt Ion: 75 Resp: 18112  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 16.4 49.2#  
 77 0.1 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.425 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX008632.D  
 Acq: 04 Apr 2019 13:47

Tgt Ion: 117 Resp: 21173  
 Ion Ratio Lower Upper  
 117 100  
 119 6.0 75.0 112.6#  
 121 0.0 24.3 36.5#

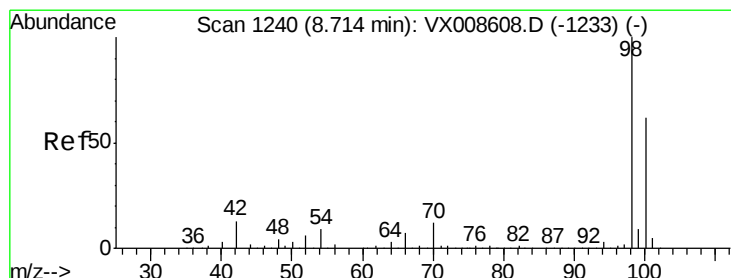
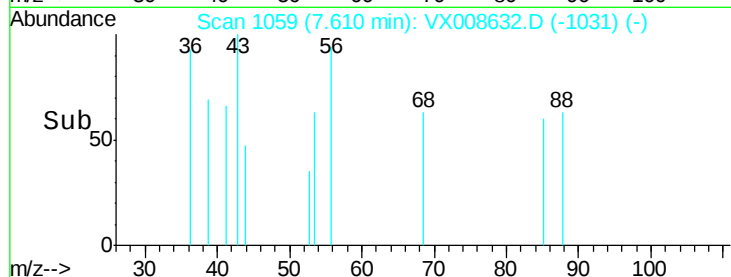
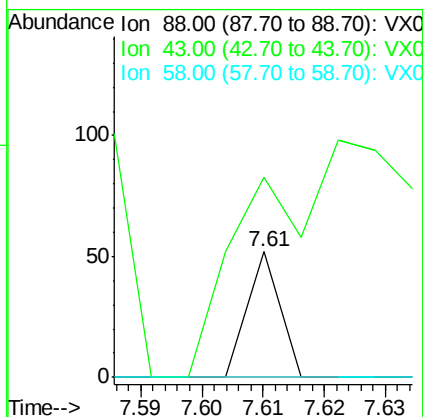
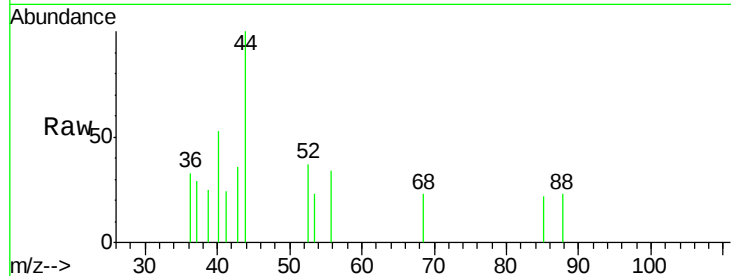




#49  
1,4-Dioxane  
Concen: 0.241 ug/l  
RT: 7.61 min Scan# 1059  
Delta R.T. -0.13 min  
Lab File: VX008632.D  
Acq: 04 Apr 2019 13:47

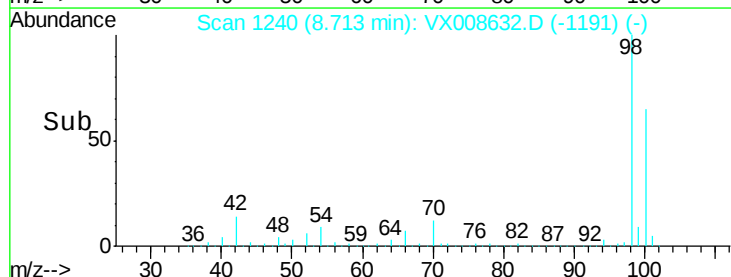
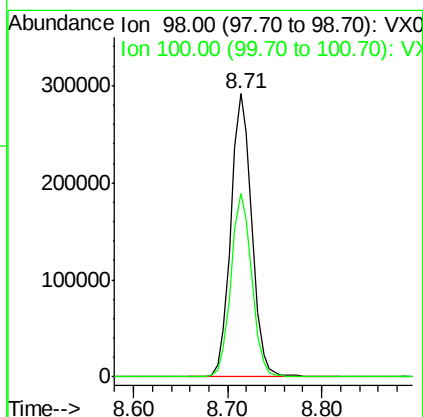
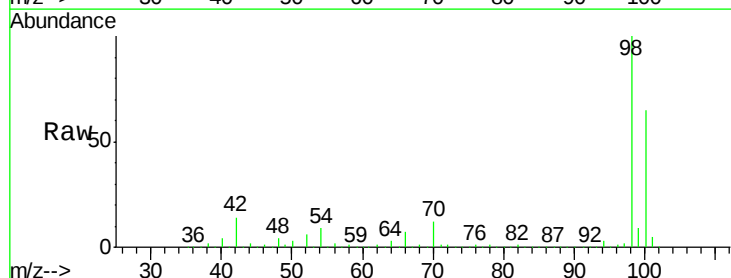
Instrument :  
MSVOA\_X  
ClientSampled :  
TWP-02

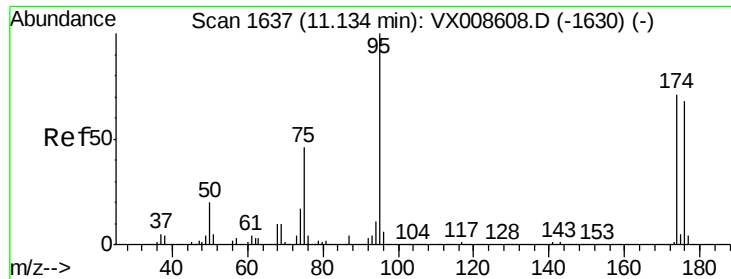
Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 1015.8 28.6 43.0#  
58 0.0 62.2 93.2#



#50  
Toluene-d8  
Concen: 48.547 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX008632.D  
Acq: 04 Apr 2019 13:47

Tgt Ion: 98 Resp: 450143  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.4 77.0





#62

4-Bromofluorobenzene

Concen: 45.231 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampleId :

TWP-02

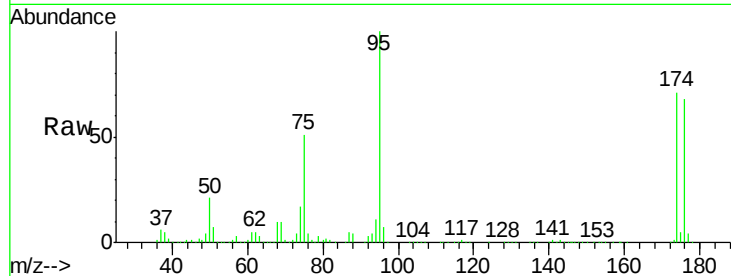
Tgt Ion: 95 Resp: 148722

Ion Ratio Lower Upper

95 100

174 75.3 0.0 151.8

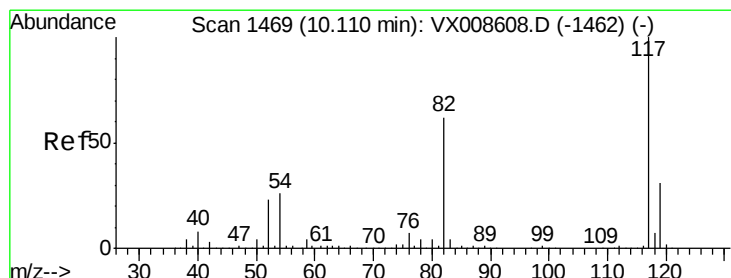
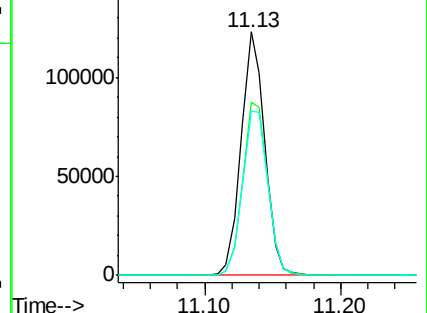
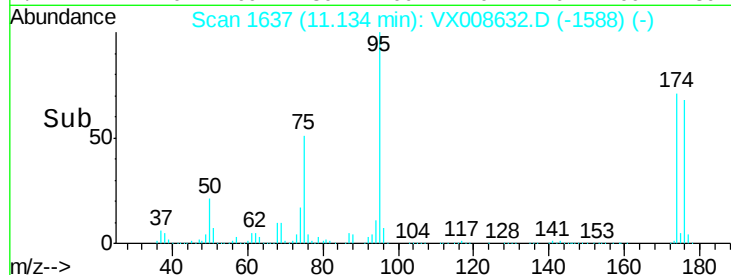
176 72.9 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008632.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008632.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008632.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

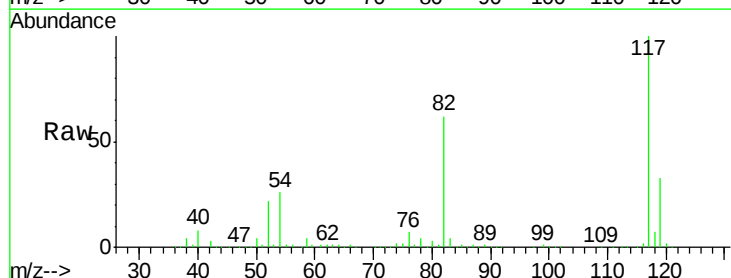
Tgt Ion: 117 Resp: 306860

Ion Ratio Lower Upper

117 100

82 62.4 49.6 74.4

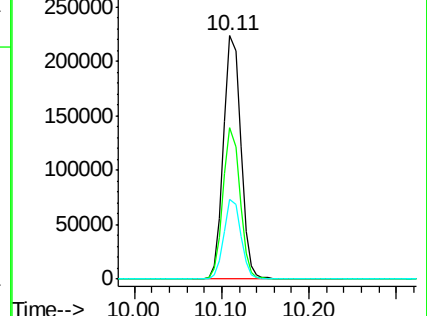
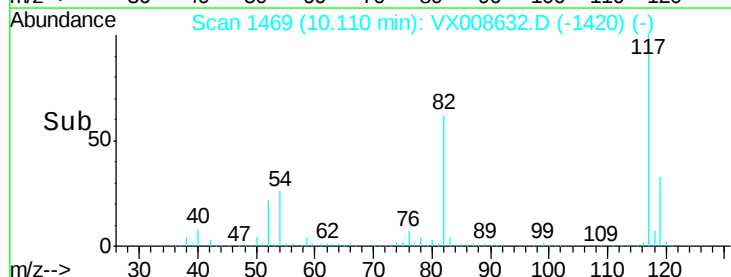
119 32.8 25.0 37.4

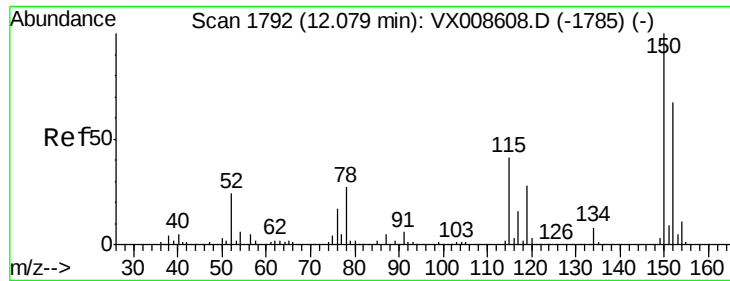


Abundance Ion 116.90 (116.60 to 117.60): VX008632.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008632.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008632.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampled :

TWP-02

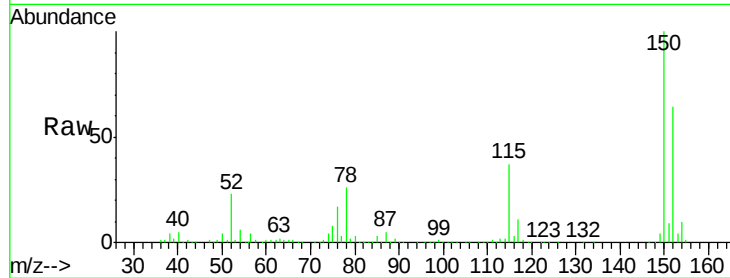
Tgt Ion:152 Resp: 122728

Ion Ratio Lower Upper

152 100

115 61.6 43.5 130.5

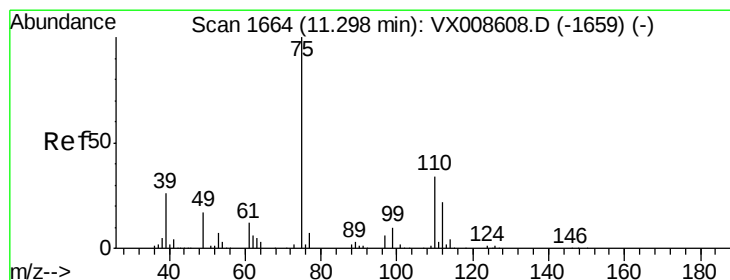
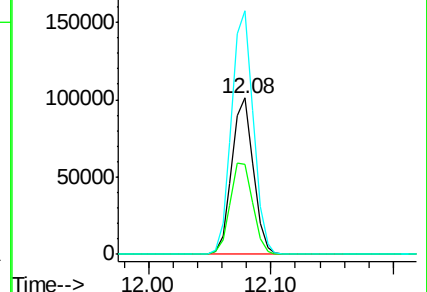
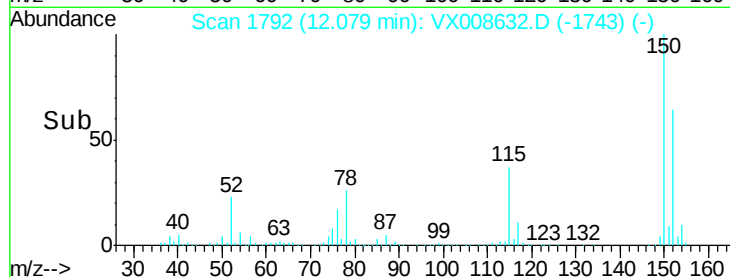
150 157.8 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 22.747 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008632.D

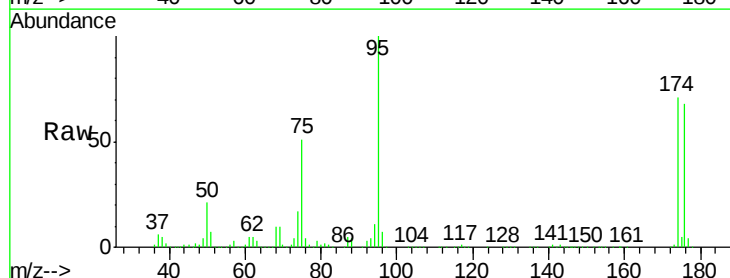
Acq: 04 Apr 2019 13:47

Tgt Ion: 75 Resp: 76691

Ion Ratio Lower Upper

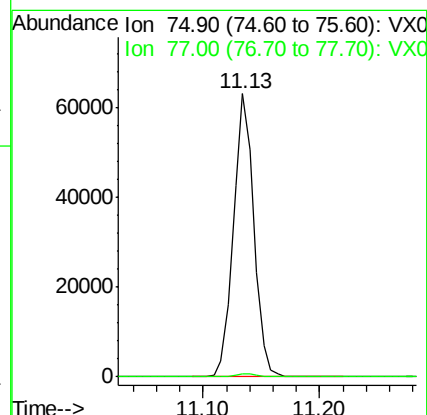
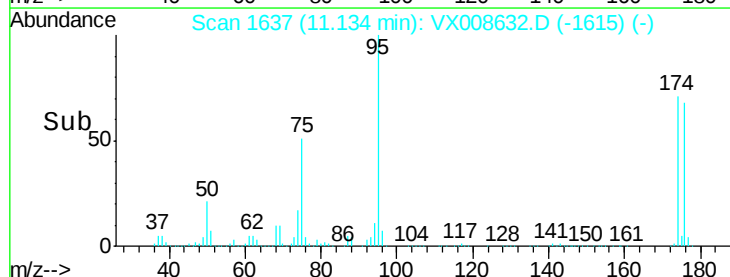
75 100

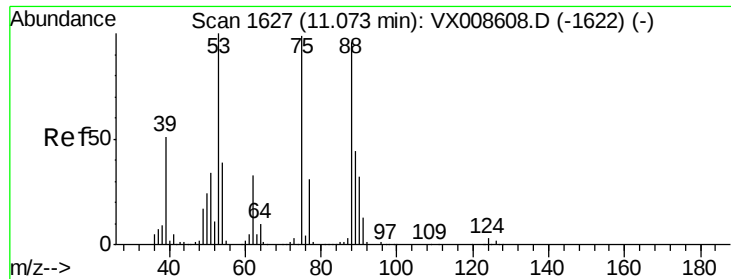
77 1.2 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.704 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008632.D

Acq: 04 Apr 2019 13:47

Instrument :

MSVOA\_X

ClientSampleId :

TWP-02

Tgt Ion: 75 Resp: 76691

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#

