

Data File : VW012853.D  
Acq On : 10 Sep 2019 05:48  
Operator : SY/VA  
Sample : K4644-13  
Misc : 2.96G/5ML/MSVOA\_W/SOIL  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T11-E1-(4)

Quant Time: Sep 10 07:11:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260  
QLast Update : Sun Sep 08 05:04:40 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 257135   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 389457   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 286251   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 93794    | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 133745   | 46.55 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.10% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 111679   | 48.23 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.46% |      |
| 50) Toluene-d8            | 10.32  | 98  | 436517   | 48.12 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.24% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 122140   | 37.09 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.18% |      |

#### Target Compounds

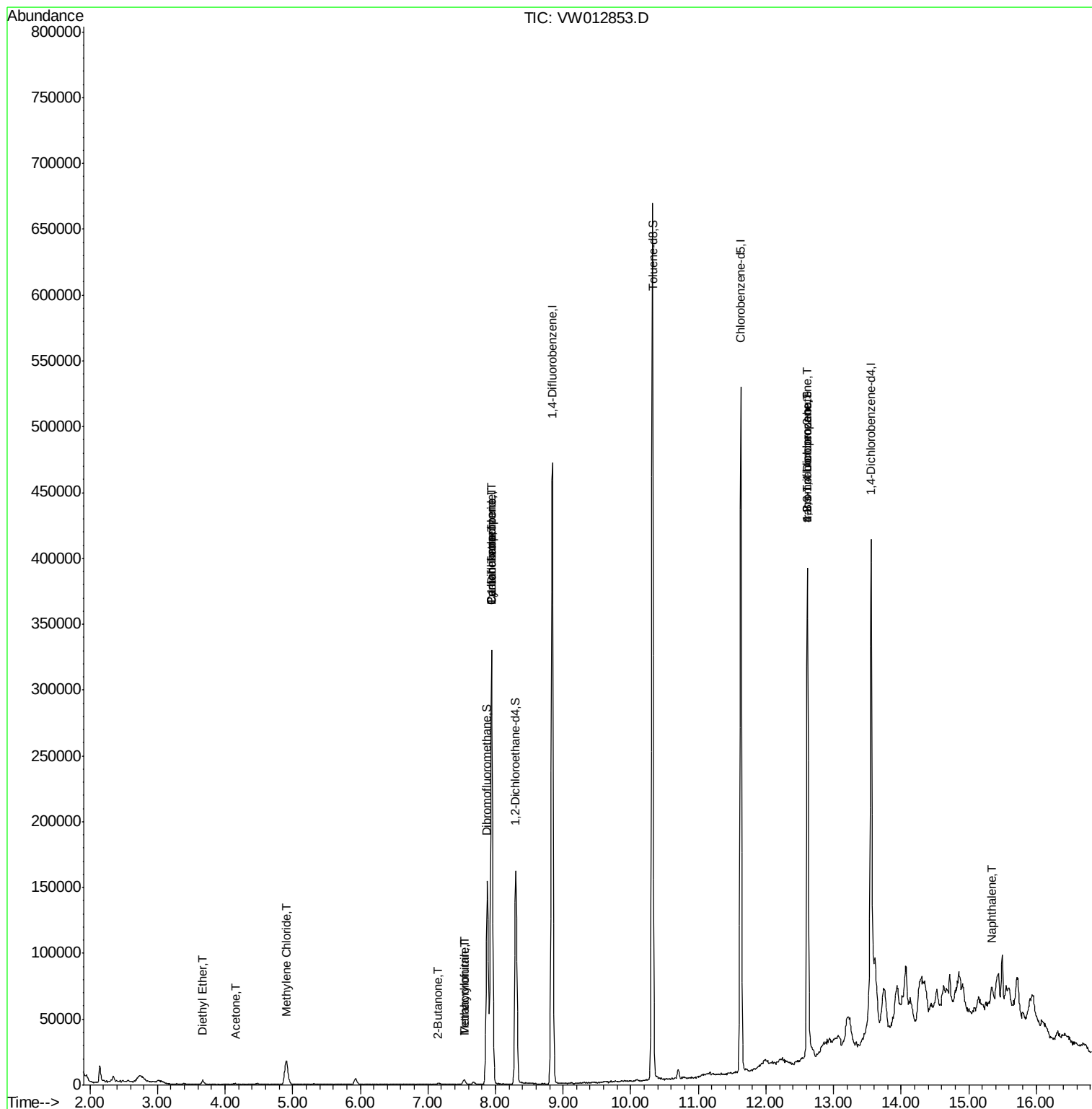
|                                |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74  | 1673  | 1.389   | ug/l   | 77     |
| 16) Acetone                    | 4.15  | 43  | 1225  | 1.564   | ug/l # | 57     |
| 20) Methylene Chloride         | 4.90  | 84  | 14170 | 5.783   | ug/l   | 85     |
| 25) 2-Butanone                 | 7.16  | 43  | 43    | 19.715  | ug/l # | 53     |
| 29) Tetrahydrofuran            | 7.54  | 42  | 2948  | 4.661   | ug/l   | 97     |
| 31) Cyclohexane                | 7.93  | 56  | 5191  | 1.229   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75  | 19005 | 5.492   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 24290 | 7.121   | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.54  | 41  | 1705  | 4.889   | ug/l # | 53     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 60515 | 63.097  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 60515 | 133.454 | ug/l # | 7      |
| 95) Naphthalene                | 15.35 | 128 | 225   | 4.491   | ug/l # | 1      |

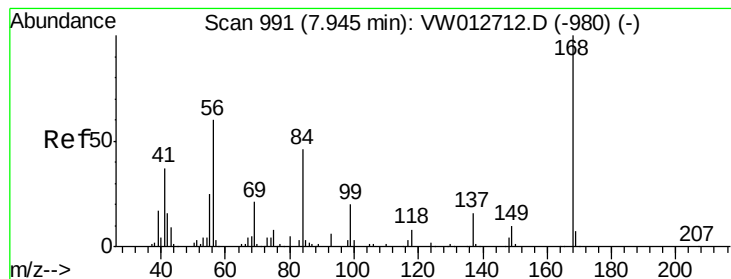
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

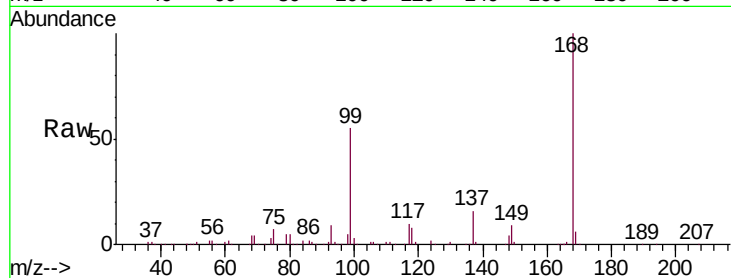
T11-E1-(4)

Tgt Ion:168 Resp: 257135

Ion Ratio Lower Upper

168 100

99 54.6 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

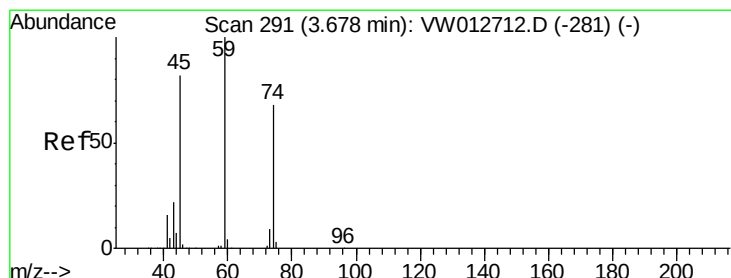
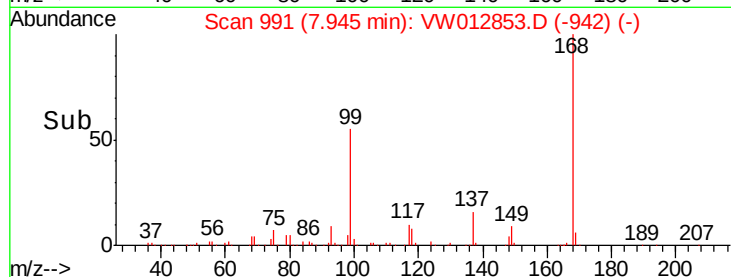
7.95

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.389 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW012853.D

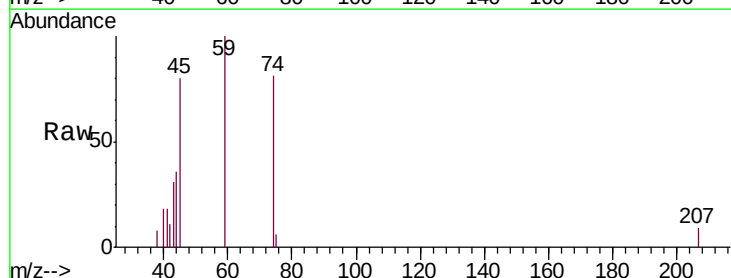
Acq: 10 Sep 2019 05:48

Tgt Ion: 74 Resp: 1673

Ion Ratio Lower Upper

74 100

45 142.9 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

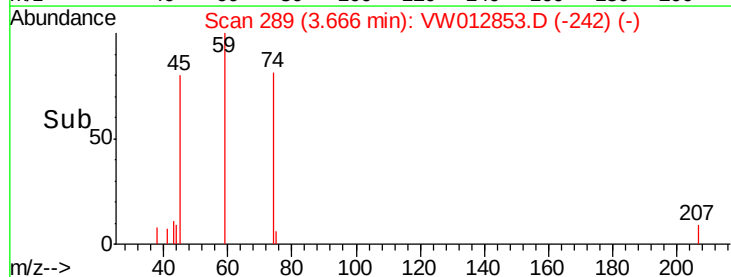
600

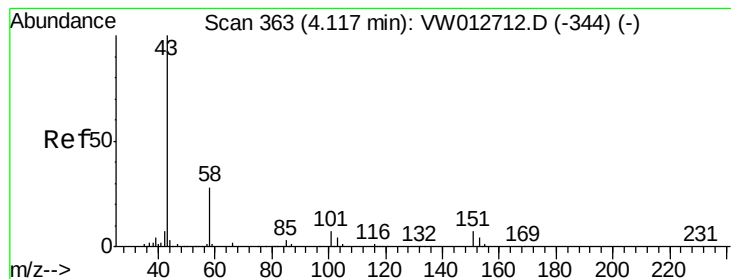
400

200

0

Time-->





#16

Acetone

Concen: 1.564 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

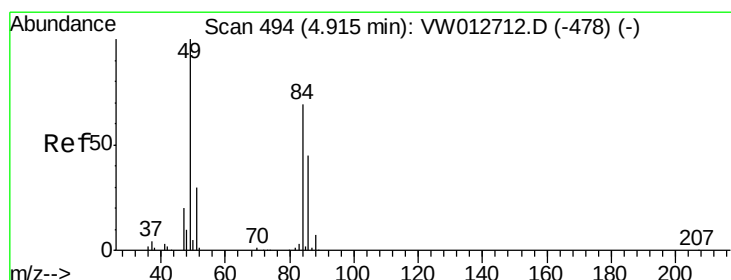
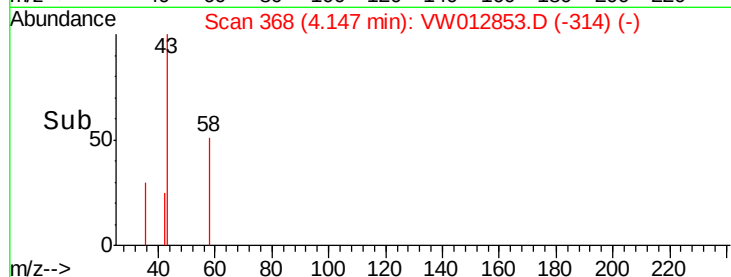
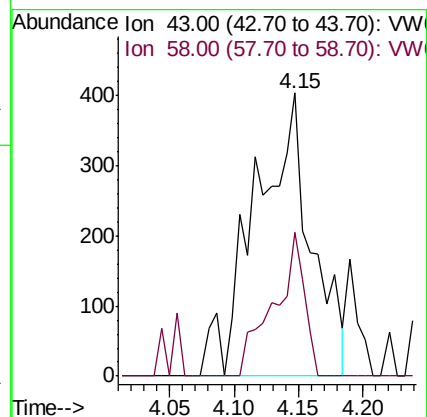
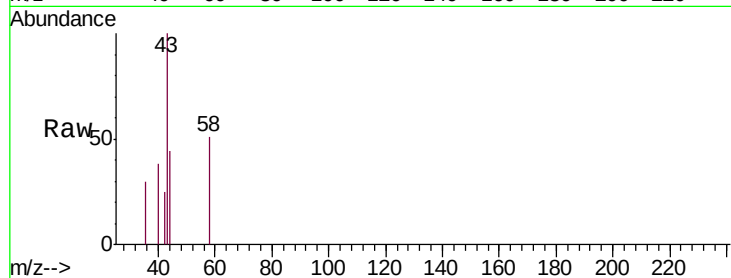
T11-E1-(4)

Tgt Ion: 43 Resp: 1225

Ion Ratio Lower Upper

43 100

58 50.9 22.6 33.8#



#20

Methylene Chloride

Concen: 5.783 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Tgt Ion: 84 Resp: 14170

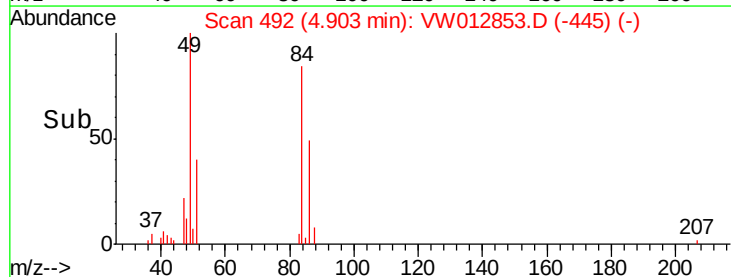
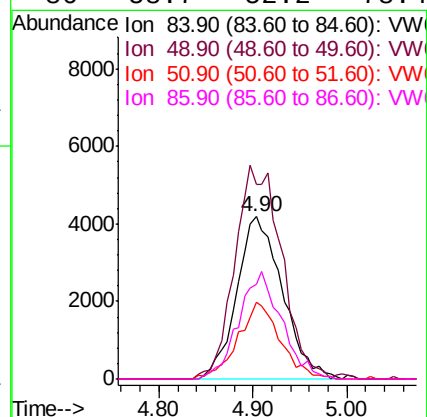
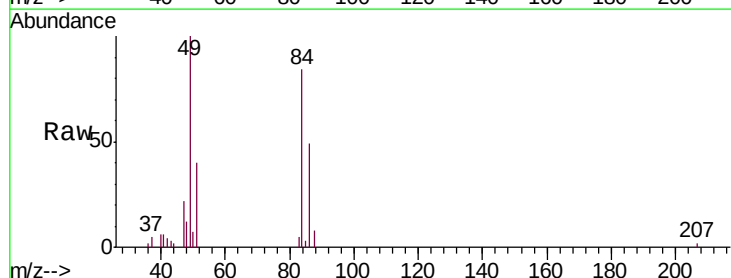
Ion Ratio Lower Upper

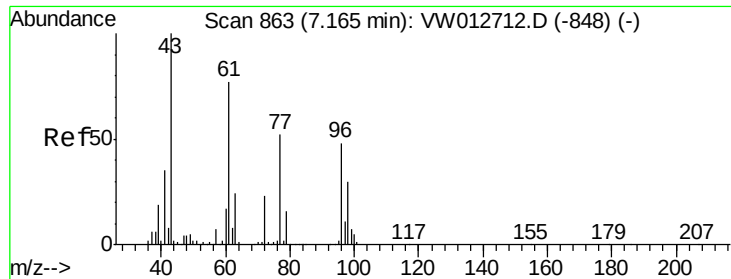
84 100

49 119.7 115.4 173.0

51 47.7 34.9 52.3

86 58.7 52.2 78.4





#25

2-Butanone

Concen: 19.715 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

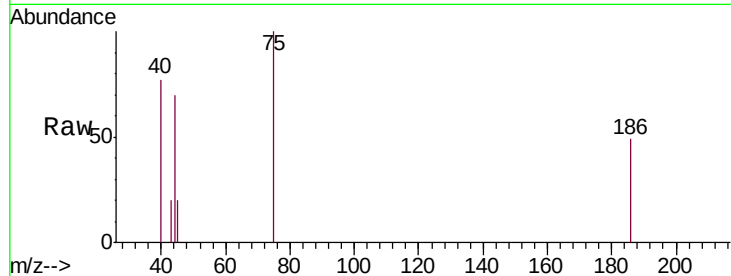
T11-E1-(4)

Tgt Ion: 43 Resp: 43

Ion Ratio Lower Upper

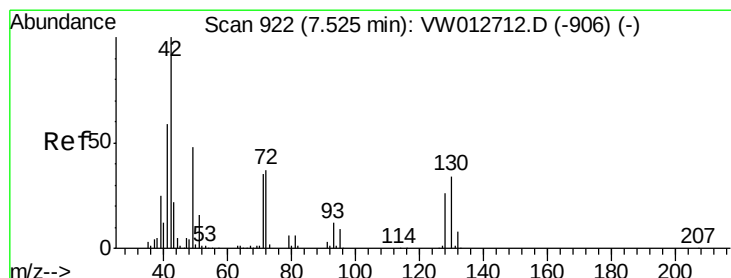
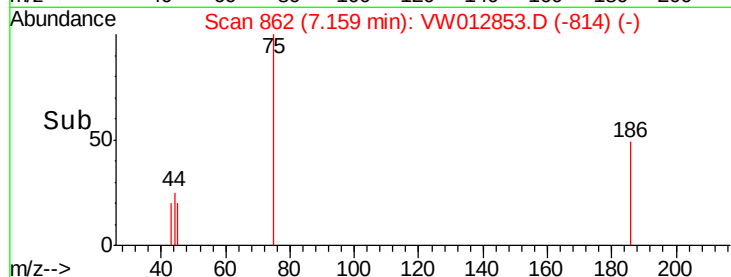
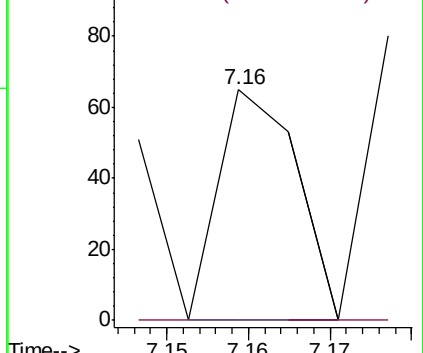
43 100

72 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 4.661 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

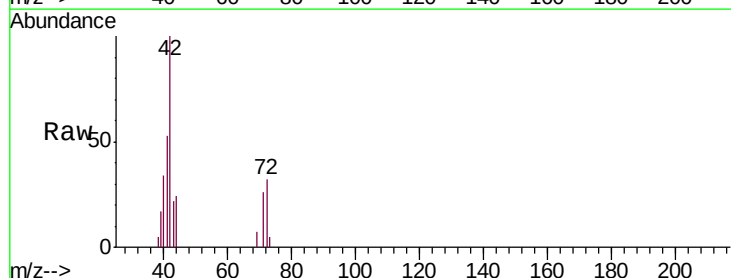
Tgt Ion: 42 Resp: 2948

Ion Ratio Lower Upper

42 100

72 37.1 28.4 42.6

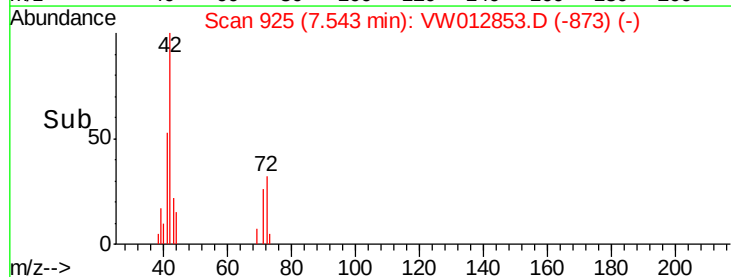
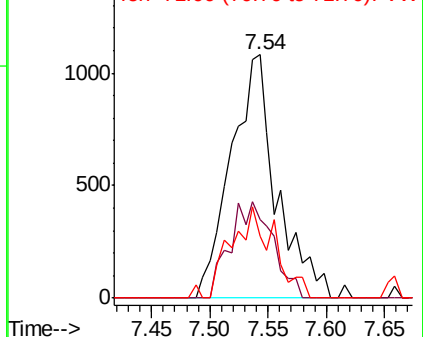
71 36.0 27.1 40.7

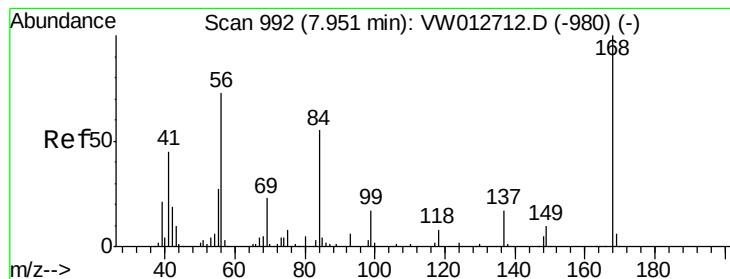


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.229 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

T11-E1-(4)

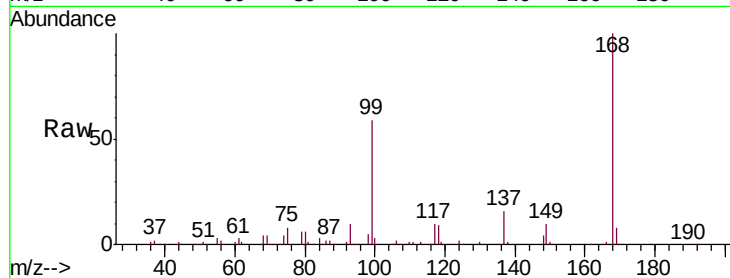
Tgt Ion: 56 Resp: 5191

Ion Ratio Lower Upper

56 100

69 163.8 25.7 38.5#

84 134.1 60.4 90.6#

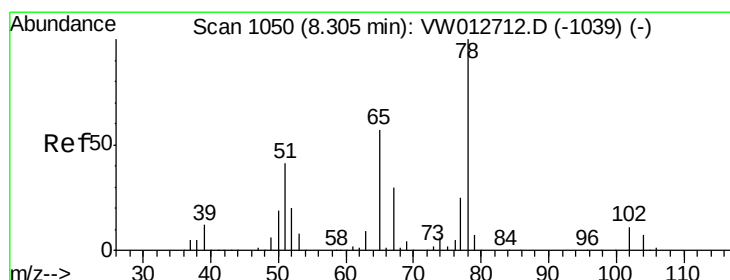
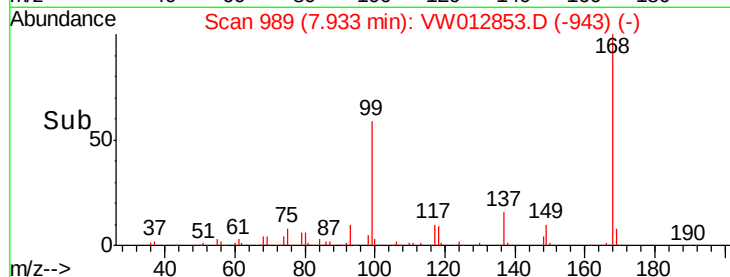
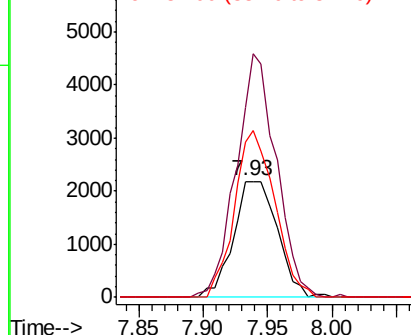


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 46.552 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012853.D

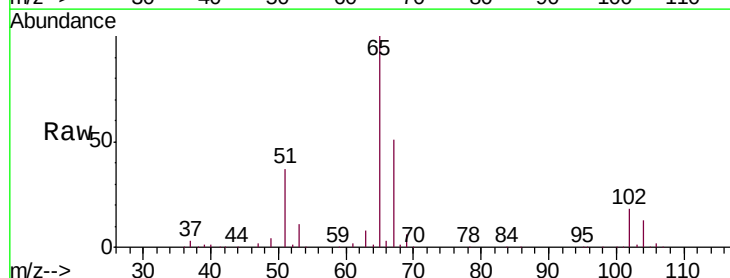
Acq: 10 Sep 2019 05:48

Tgt Ion: 65 Resp: 133745

Ion Ratio Lower Upper

65 100

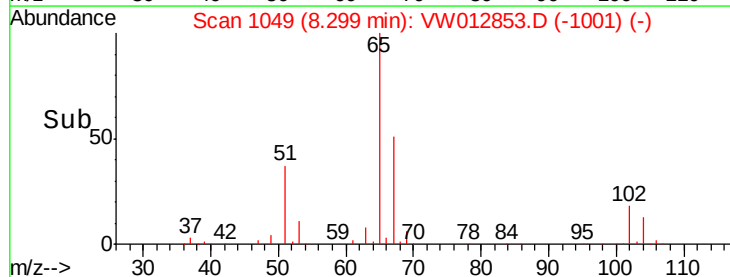
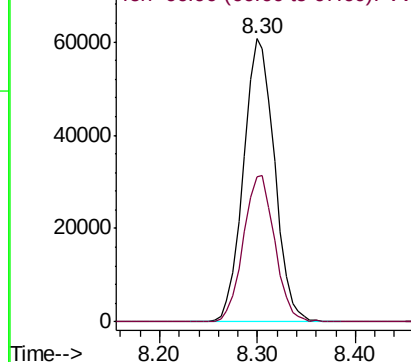
67 52.2 0.0 101.8

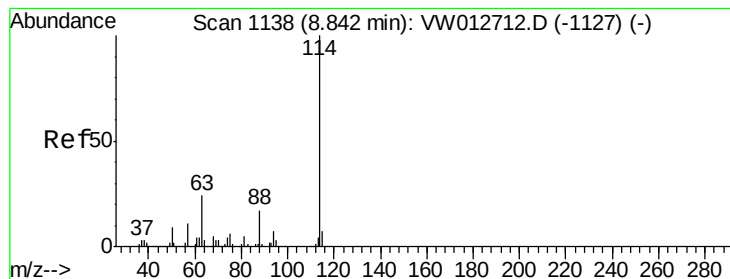


Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

T11-E1-(4)

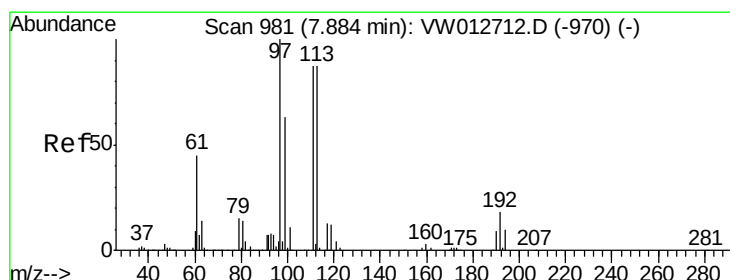
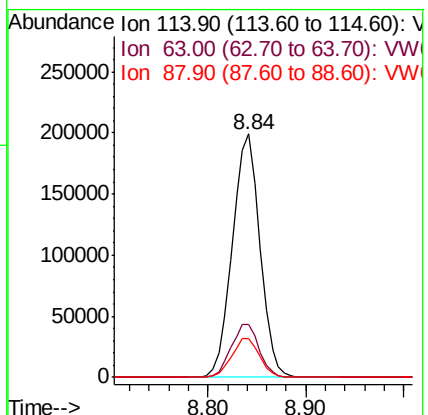
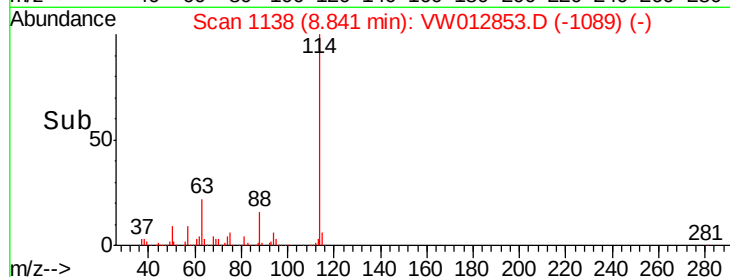
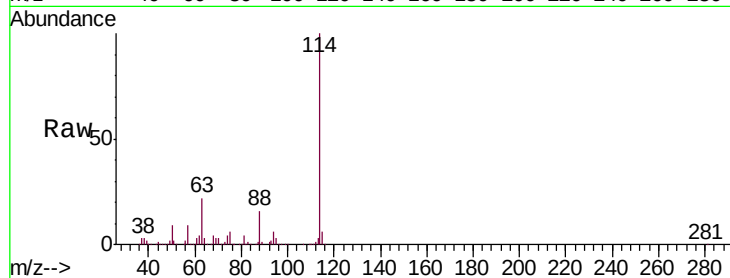
Tgt Ion:114 Resp: 389457

Ion Ratio Lower Upper

114 100

63 21.9 0.0 47.2

88 16.1 0.0 34.0



#35

Dibromofluoromethane

Concen: 48.232 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

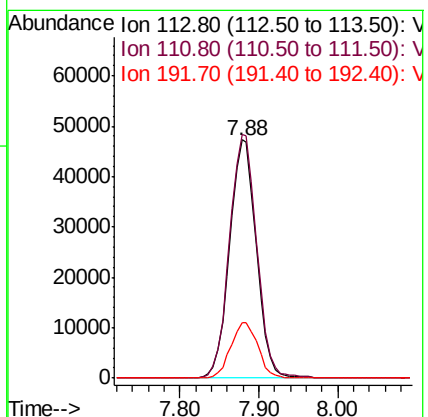
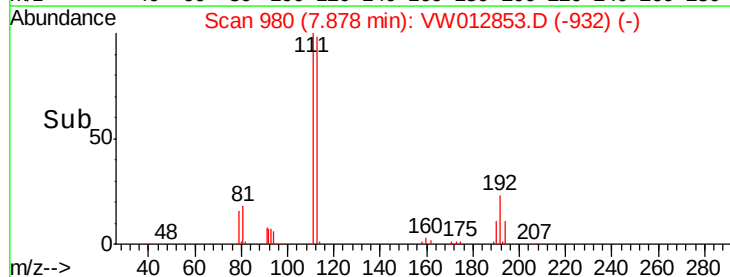
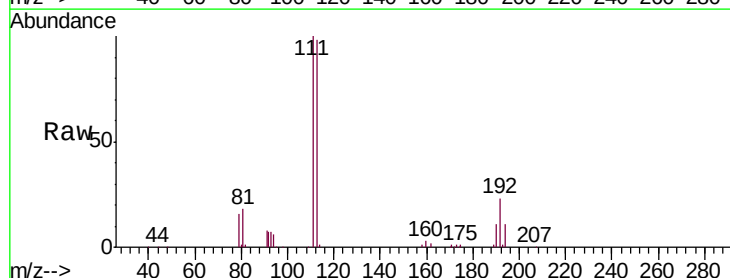
Tgt Ion:113 Resp: 111679

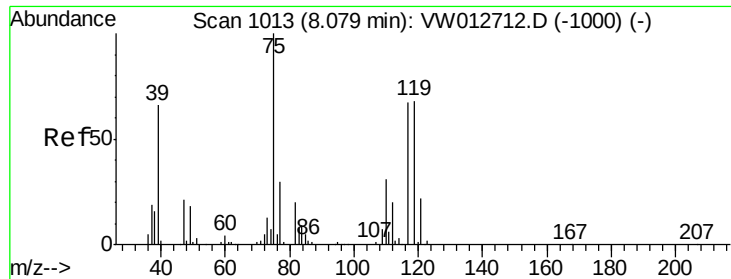
Ion Ratio Lower Upper

113 100

111 104.0 80.2 120.4

192 23.6 17.3 25.9





#36

1,1-Dichloropropene

Concen: 5.492 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

T11-E1-(4)

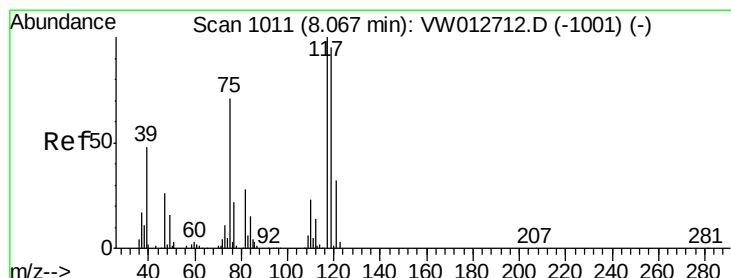
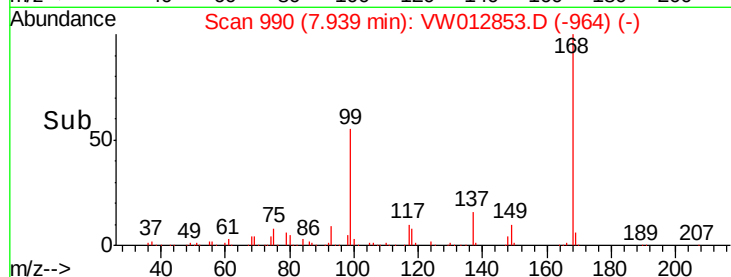
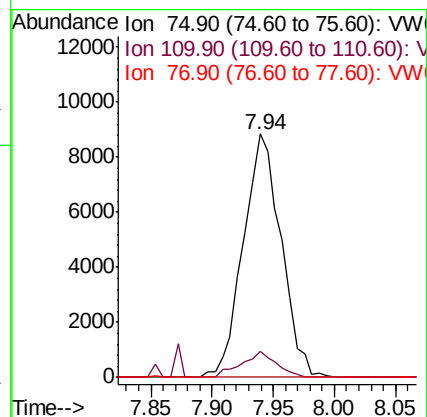
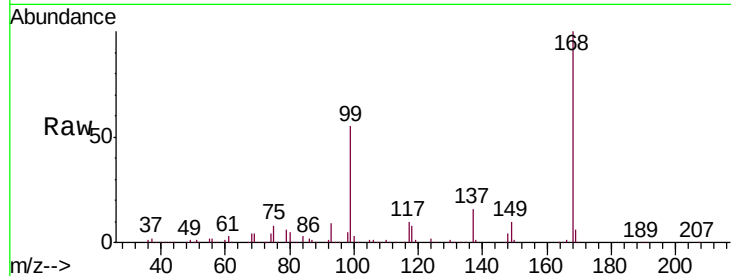
Tgt Ion: 75 Resp: 19005

Ion Ratio Lower Upper

75 100

110 9.8 15.9 47.7#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 7.121 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

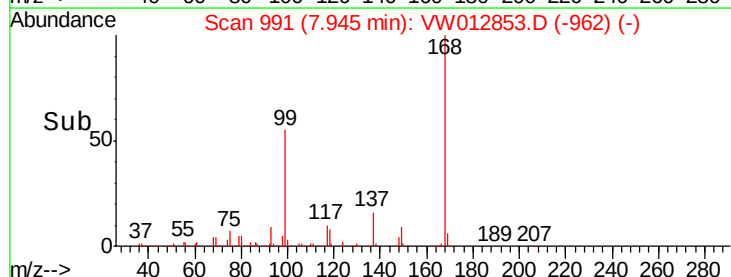
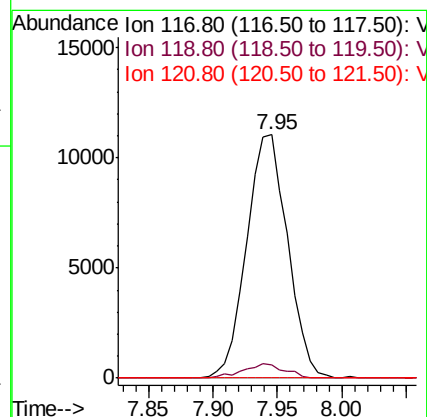
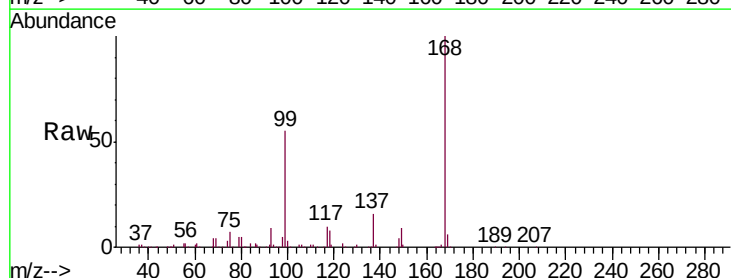
Tgt Ion: 117 Resp: 24290

Ion Ratio Lower Upper

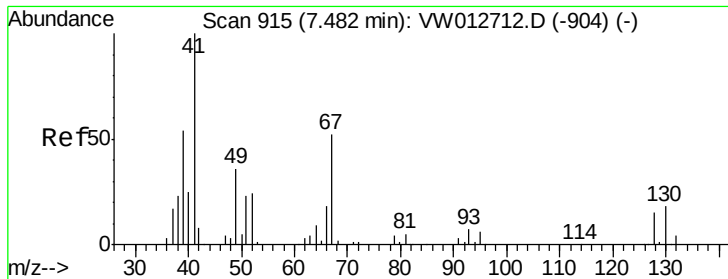
117 100

119 5.5 76.2 114.2#

121 0.0 25.4 38.2#







#41

Methacrylonitrile

Concen: 4.889 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.06 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

T11-E1-(4)

Tgt Ion: 41 Resp: 1705

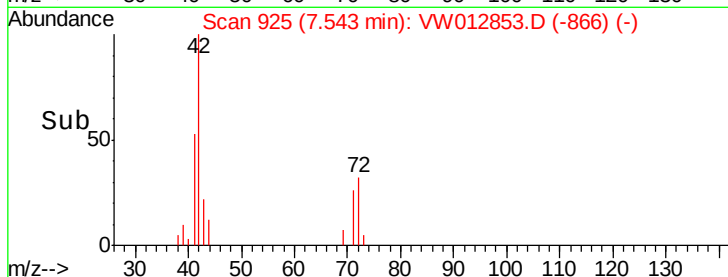
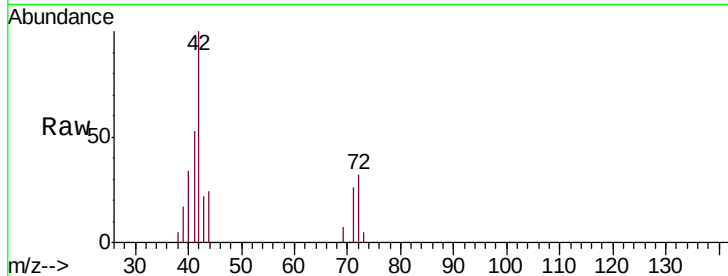
Ion Ratio Lower Upper

41 100

39 45.5 47.5 71.3#

67 1.2 45.1 67.7#

52 1.2 20.2 30.2#

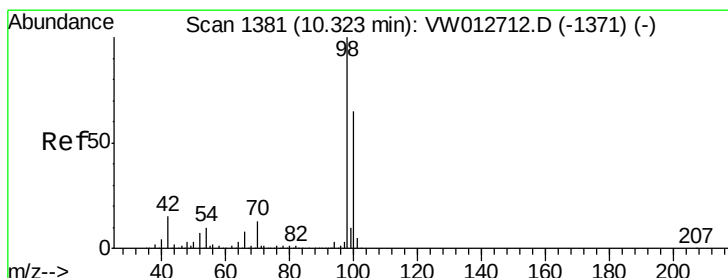
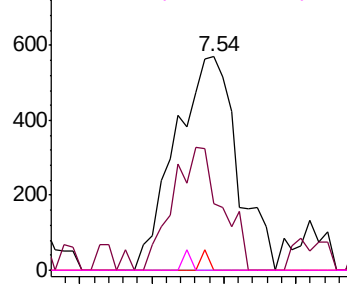


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 48.121 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012853.D

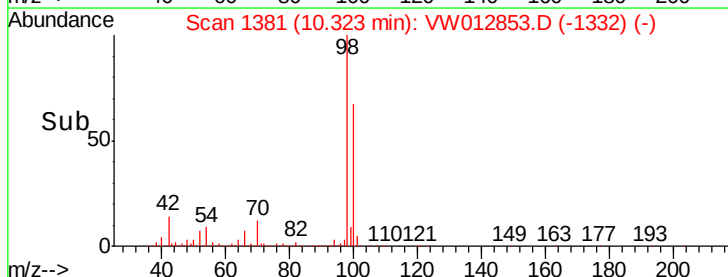
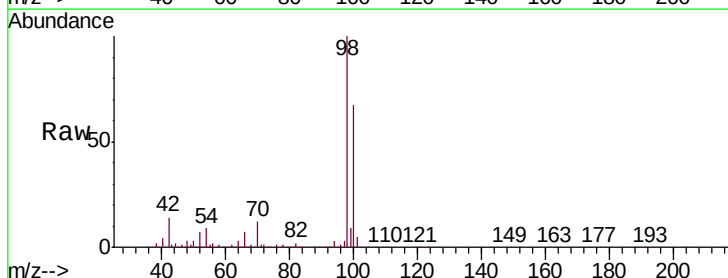
Acq: 10 Sep 2019 05:48

Tgt Ion: 98 Resp: 436517

Ion Ratio Lower Upper

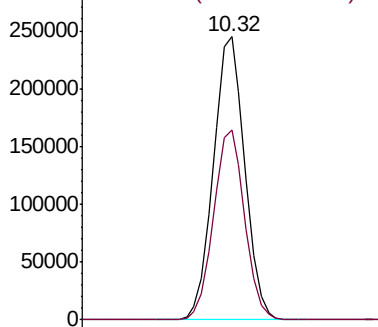
98 100

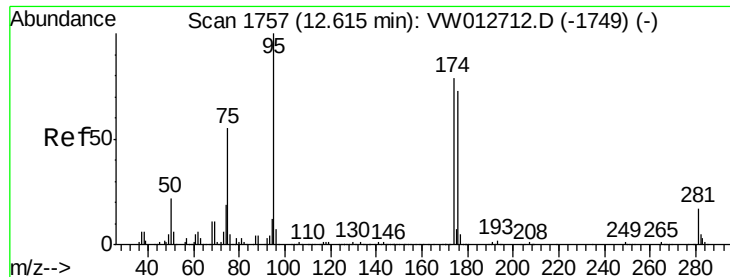
100 66.3 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

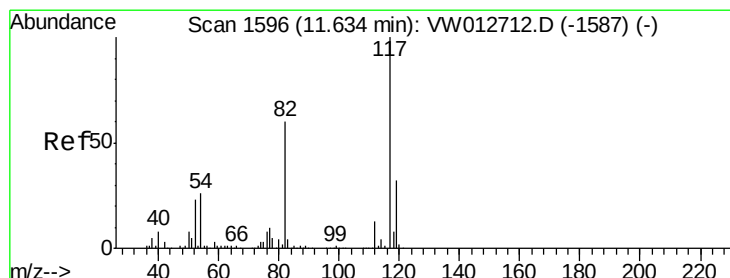
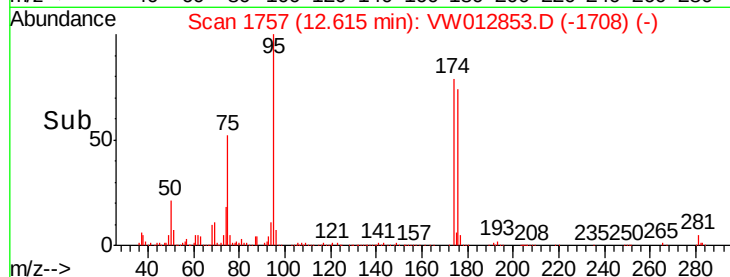
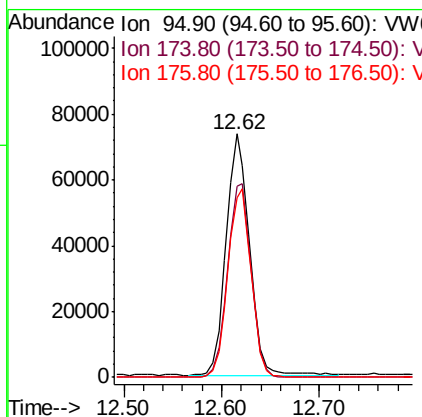
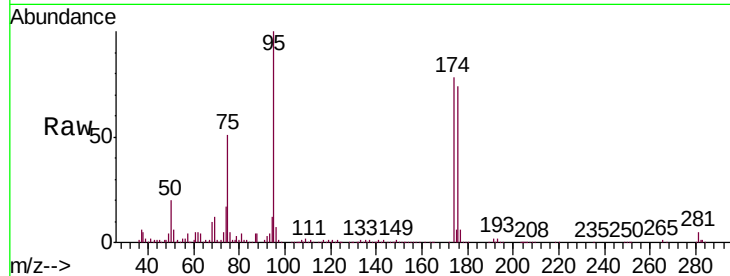




#62  
4-Bromofluorobenzene  
Concen: 37.089 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012853.D  
Acq: 10 Sep 2019 05:48

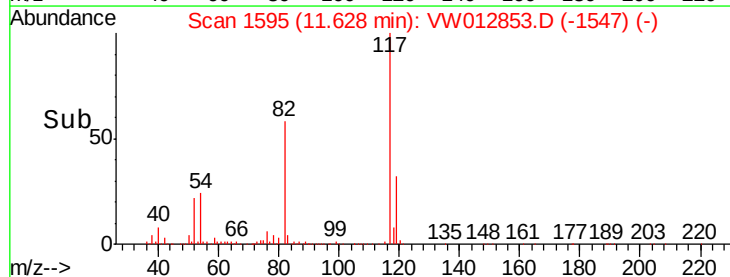
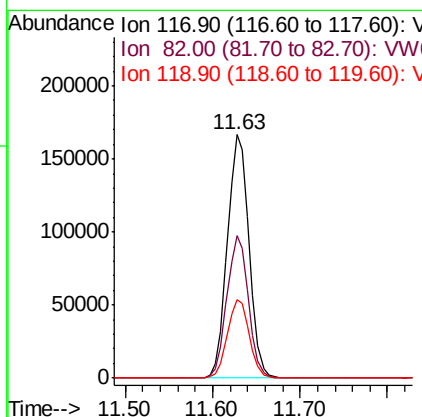
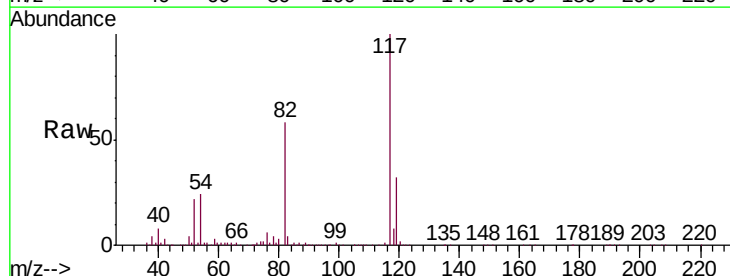
Instrument :  
MSVOA\_W  
ClientSampleId :  
T11-E1-(4)

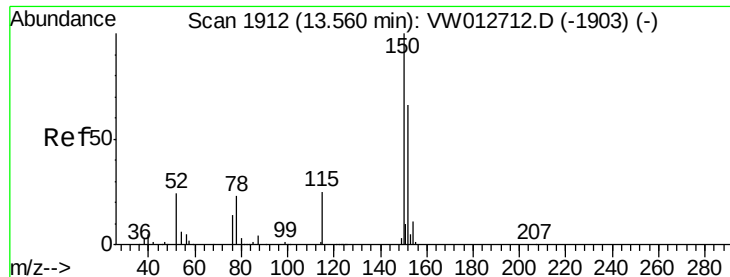
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 80.0  | 0.0   | 161.0 |
| 176     | 77.0  | 0.0   | 156.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012853.D  
Acq: 10 Sep 2019 05:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.2  | 48.2  | 72.4  |
| 119     | 32.4  | 25.8  | 38.6  |

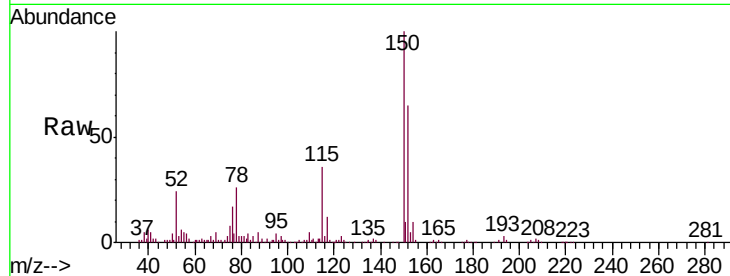




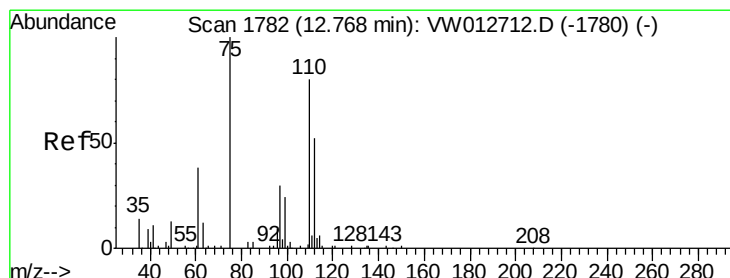
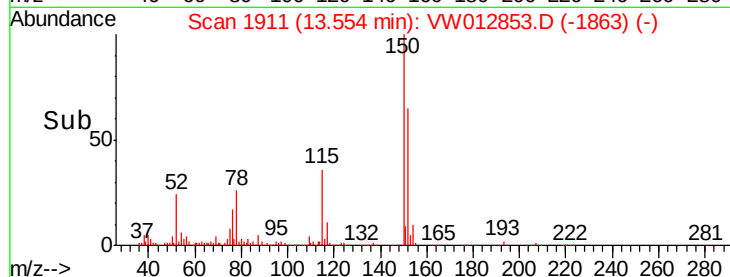
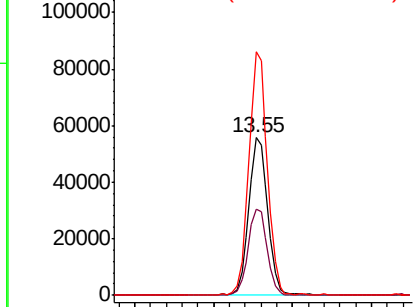
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.55 min Scan# 1911  
 Delta R.T. -0.01 min  
 Lab File: VW012853.D  
 Acq: 10 Sep 2019 05:48

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T11-E1-(4)

Tgt Ion:152 Resp: 93794  
 Ion Ratio Lower Upper  
 152 100  
 115 54.7 30.0 90.1  
 150 147.8 0.0 349.0

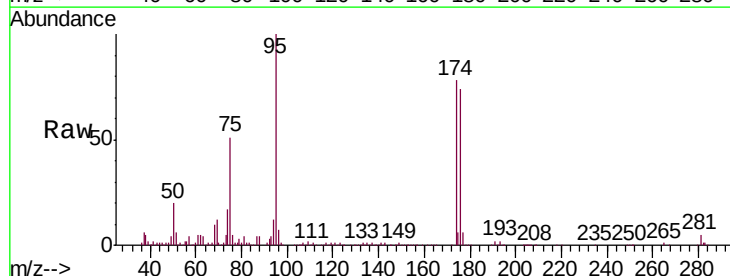


Abundance Ion 151.90 (151.60 to 152.60): V  
 Ion 114.90 (114.60 to 115.60): V  
 Ion 149.90 (149.60 to 150.60): V

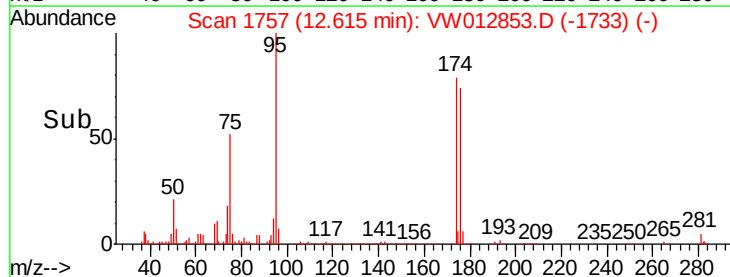
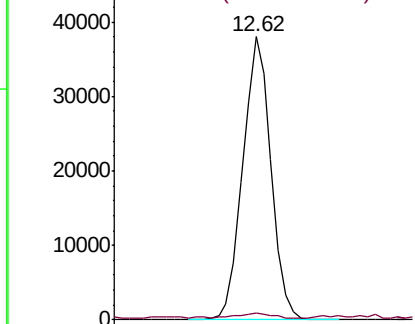


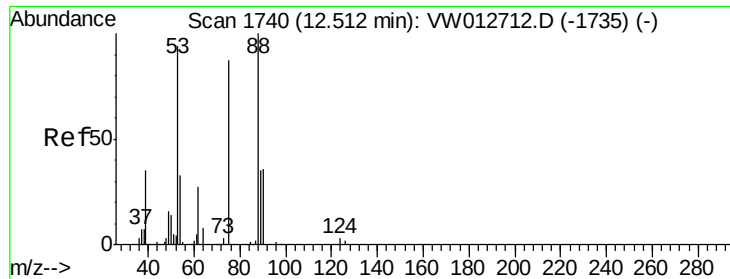
#76  
 1,2,3-Trichloropropane  
 Concen: 63.097 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW012853.D  
 Acq: 10 Sep 2019 05:48

Tgt Ion: 75 Resp: 60515  
 Ion Ratio Lower Upper  
 75 100  
 77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 133.454 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Instrument :

MSVOA\_W

ClientSampleId :

T11-E1-(4)

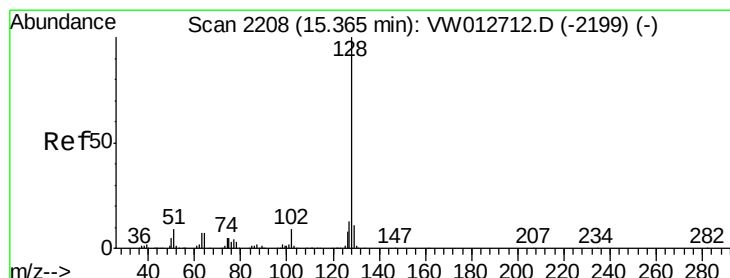
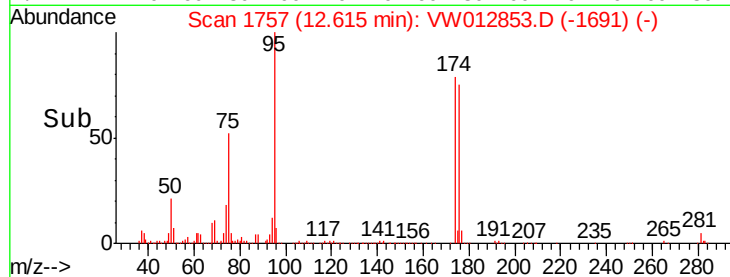
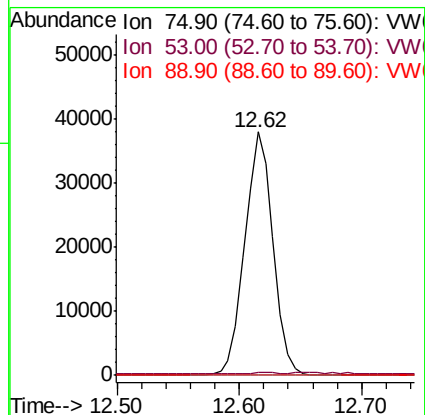
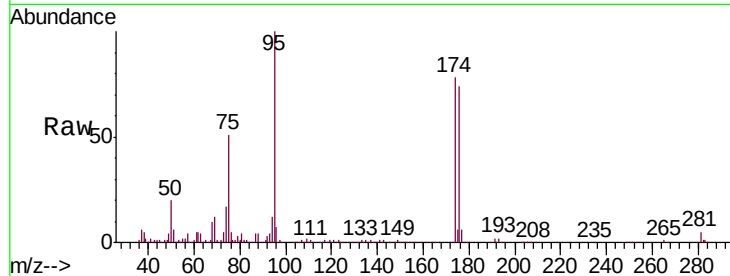
Tgt Ion: 75 Resp: 60515

Ion Ratio Lower Upper

75 100

53 0.5 87.6 131.4#

89 0.0 35.5 53.3#



#95

Naphthalene

Concen: 4.491 ug/l

RT: 15.35 min Scan# 2206

Delta R.T. -0.01 min

Lab File: VW012853.D

Acq: 10 Sep 2019 05:48

Tgt Ion: 128 Resp: 225

Ion Ratio Lower Upper

128 100

127 66.2 10.7 16.1#

129 100.4 8.7 13.1#

