

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW022219\  
 Data File : VW008792.D  
 Acq On : 22 Feb 2019 16:32  
 Operator : SY/VA  
 Sample : K1556-01RE  
 Misc : 5.32G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

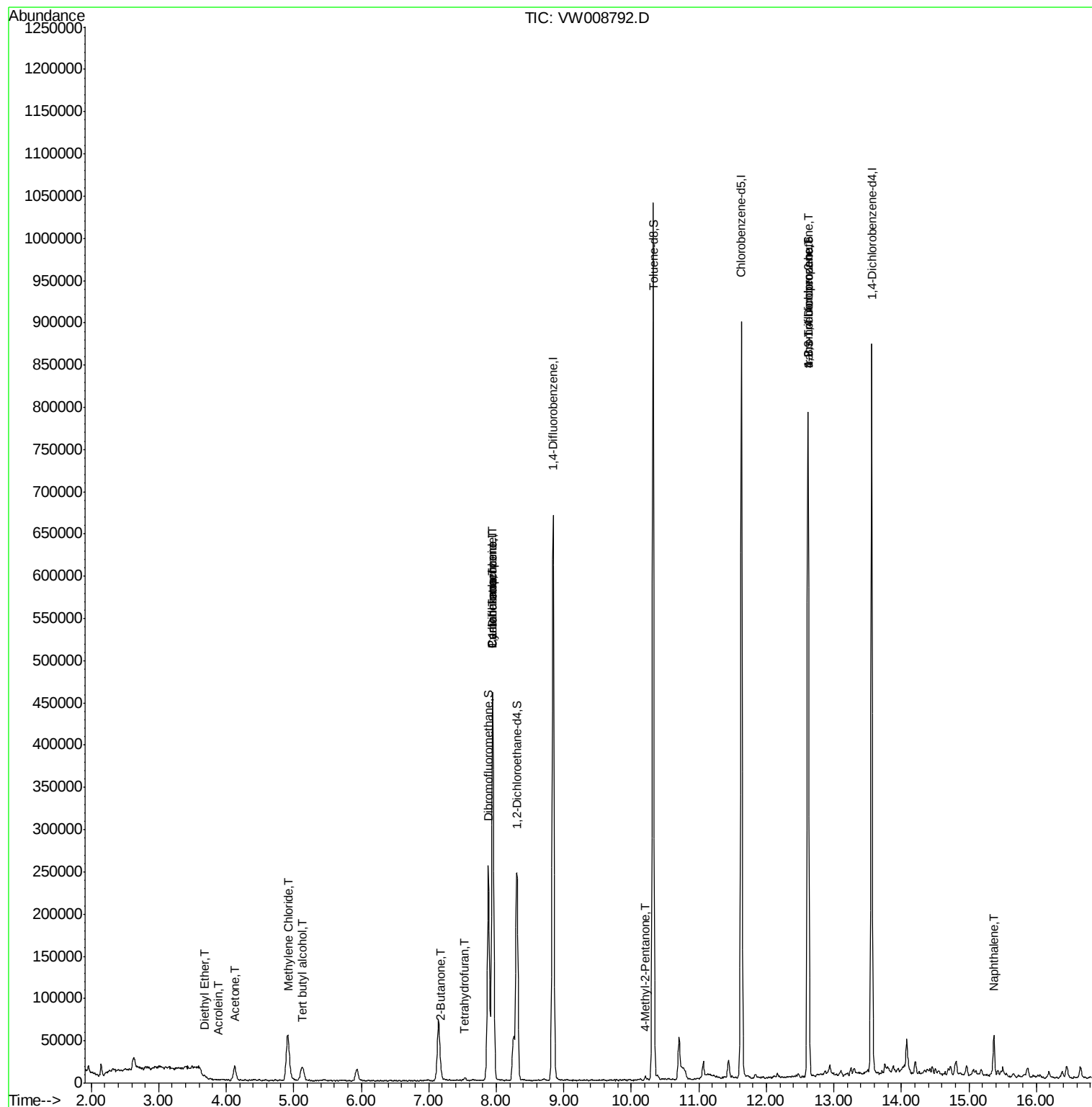
Quant Time: Feb 23 03:26:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

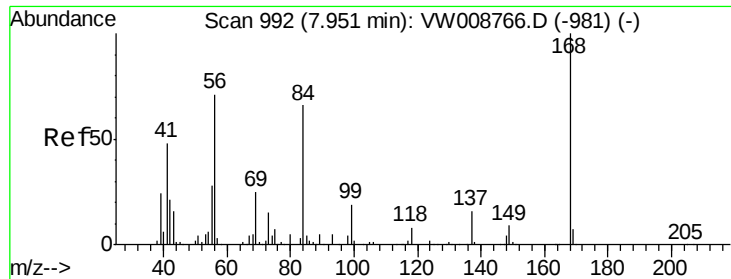
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 362709   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 558746   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 489146   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 216662   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 192649   | 56.63   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 113.26% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 165775   | 49.41   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 98.82%  |          |
| 50) Toluene-d8                 | 10.32 | 98   | 655468   | 50.61   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 101.22% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 220163   | 43.42   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 86.84%  |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 8) Diethyl Ether               | 3.68  | 74   | 2023     | 1.079   | ug/l    | 98       |
| 11) Tert butyl alcohol         | 5.12  | 59   | 16110    | 53.193  | ug/l #  | 72       |
| 13) Acrolein                   | 3.87  | 56   | 69       | 19.979  | ug/l #  | 11       |
| 16) Acetone                    | 4.13  | 43   | 28808    | 36.534  | ug/l    | 100      |
| 20) Methylene Chloride         | 4.92  | 84   | 43752    | 6.855   | ug/l    | 90       |
| 25) 2-Butanone                 | 7.18  | 43   | 2176     | 1.974   | ug/l    | 98       |
| 29) Tetrahydrofuran            | 7.54  | 42   | 2386     | 3.396   | ug/l #  | 93       |
| 31) Cyclohexane                | 7.95  | 56   | 8247     | 1.286   | ug/l #  | 17       |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 26360    | 4.846   | ug/l #  | 51       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 35338    | 6.161   | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 3352     | 1.308   | ug/l    | 95       |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 117000   | 65.406  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 117000   | 159.006 | ug/l #  | 6        |
| 95) Naphthalene                | 15.37 | 128  | 39817    | 5.002   | ug/l    | 95       |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008792.D

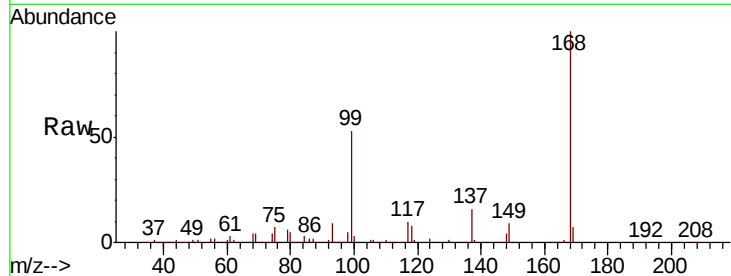
Acq: 22 Feb 2019 16:32

Tgt Ion:168 Resp: 362709

Ion Ratio Lower Upper

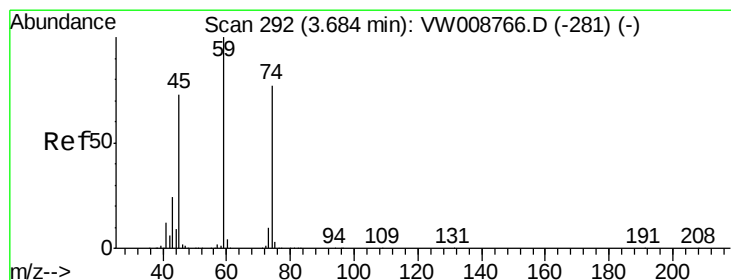
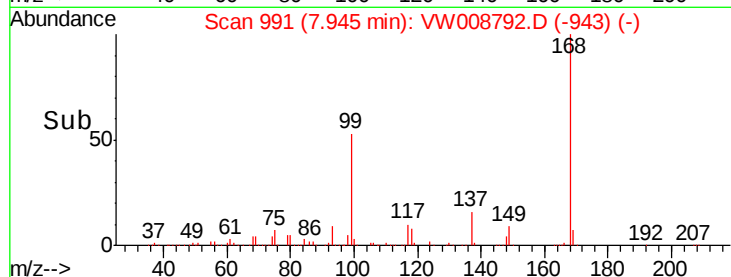
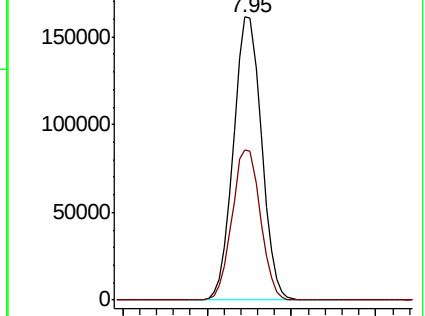
168 100

99 52.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.079 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW008792.D

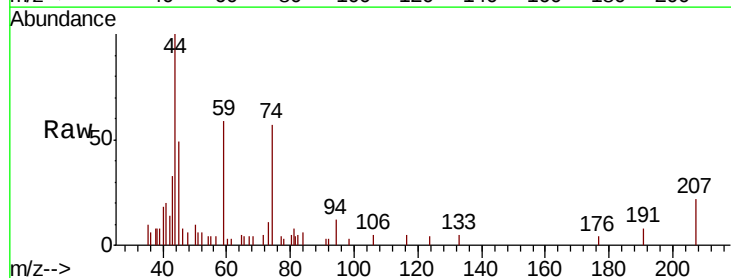
Acq: 22 Feb 2019 16:32

Tgt Ion: 74 Resp: 2023

Ion Ratio Lower Upper

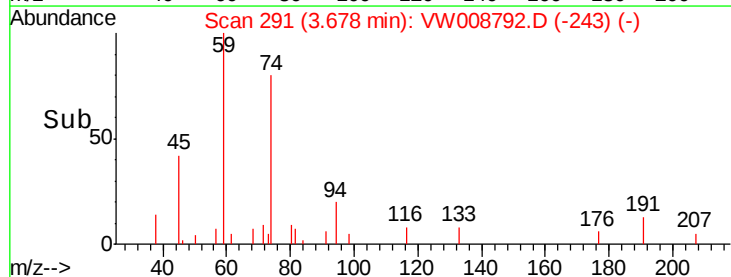
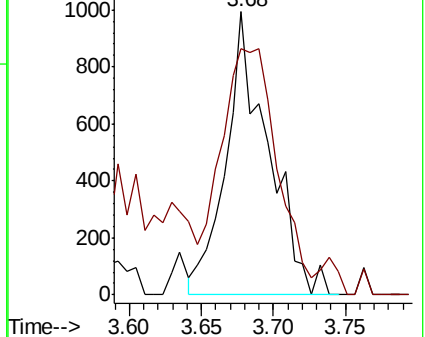
74 100

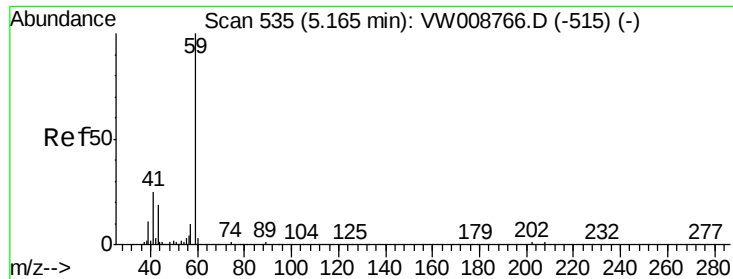
45 102.2 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

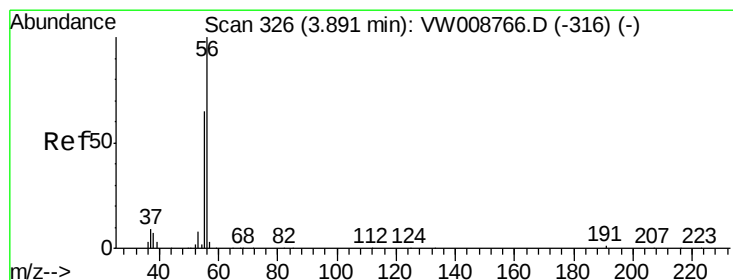
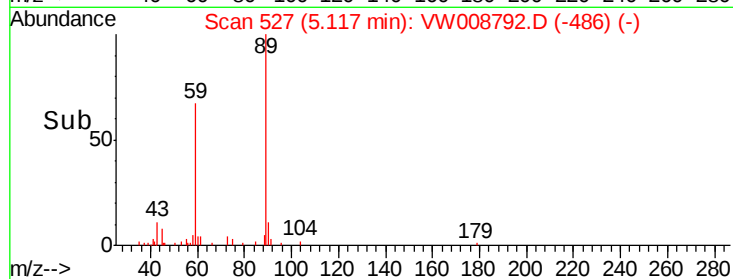
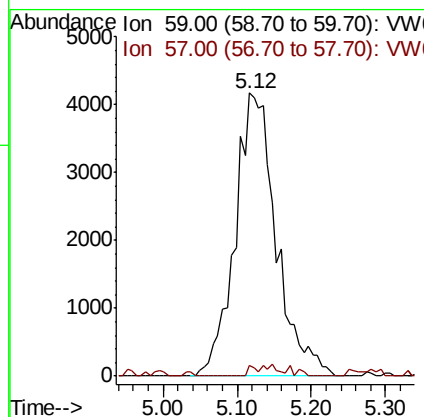
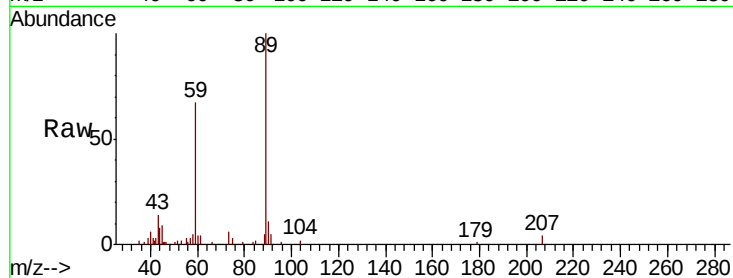
Ion 45.00 (44.70 to 45.70): VW





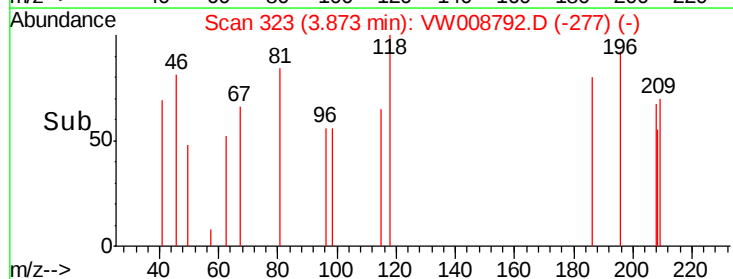
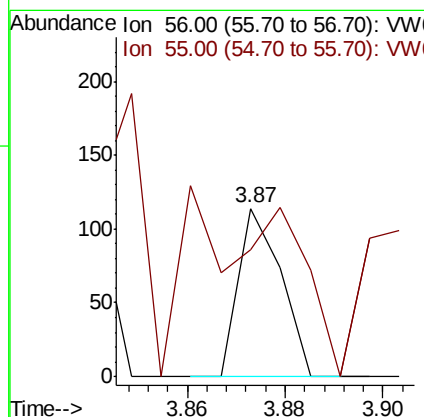
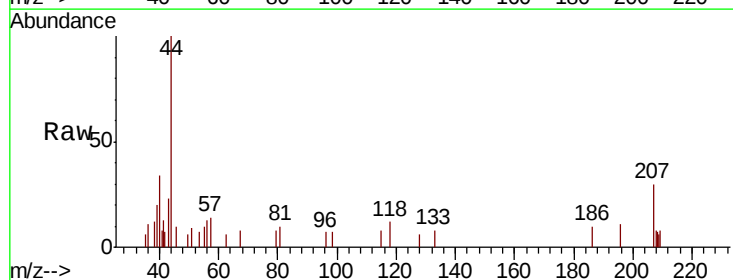
#11  
Tert butyl alcohol  
Concen: 53.193 ug/l  
RT: 5.12 min Scan# 527  
Delta R.T. -0.05 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

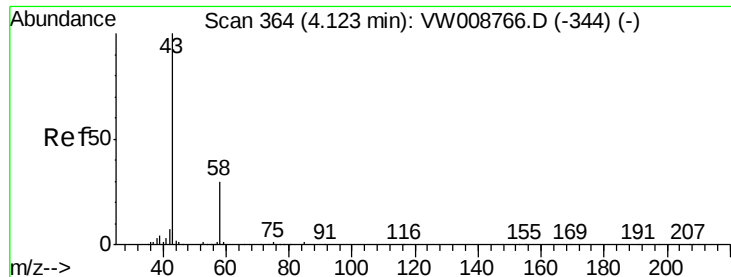
Tgt Ion: 59 Resp: 16110  
Ion Ratio Lower Upper  
59 100  
57 0.8 9.3 13.9#



#13  
Acrolein  
Concen: 19.979 ug/l  
RT: 3.87 min Scan# 323  
Delta R.T. -0.02 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

Tgt Ion: 56 Resp: 69  
Ion Ratio Lower Upper  
56 100  
55 144.9 56.9 85.3#





#16

Acetone

Concen: 36.534 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008792.D

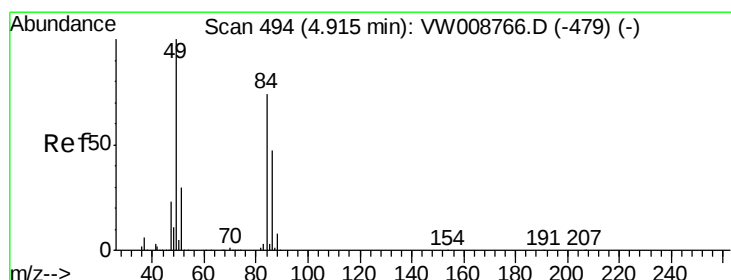
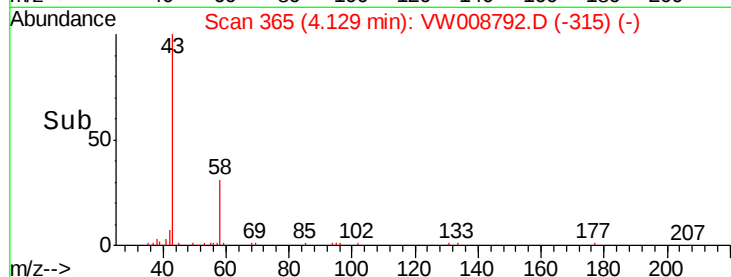
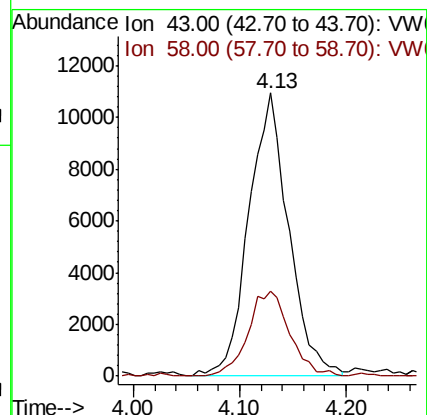
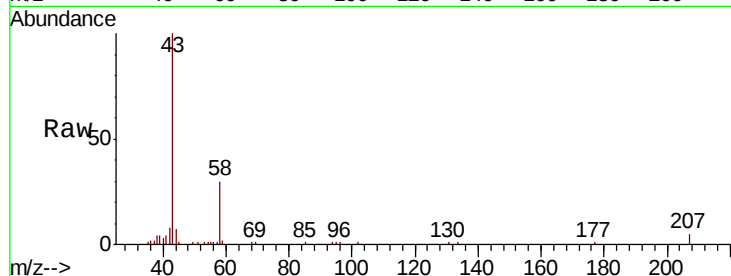
Acq: 22 Feb 2019 16:32

Tgt Ion: 43 Resp: 28808

Ion Ratio Lower Upper

43 100

58 30.0 23.8 35.6



#20

Methylene Chloride

Concen: 6.855 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW008792.D

Acq: 22 Feb 2019 16:32

Tgt Ion: 84 Resp: 43752

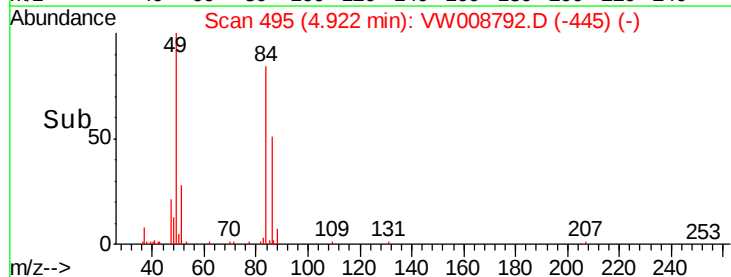
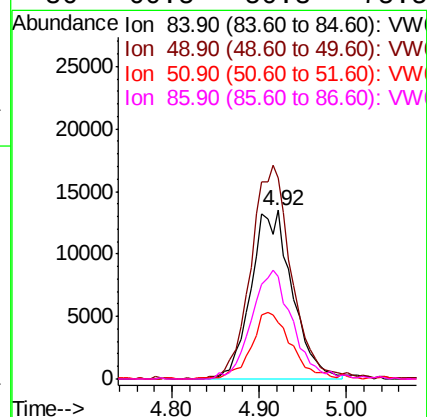
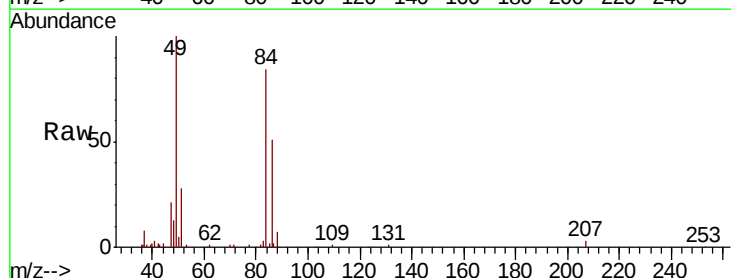
Ion Ratio Lower Upper

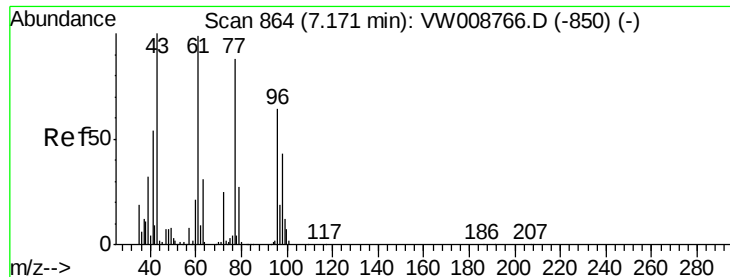
84 100

49 119.2 108.2 162.2

51 33.3 32.7 49.1

86 60.5 50.3 75.5





#25

2-Butanone

Concen: 1.974 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW008792.D

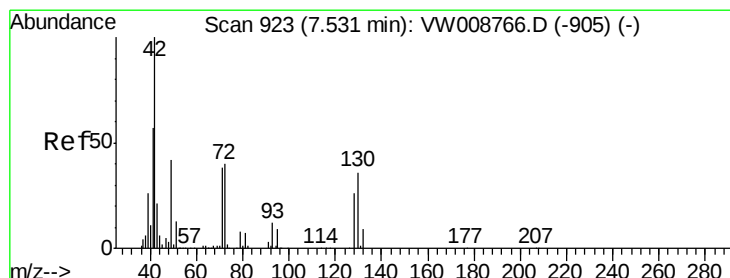
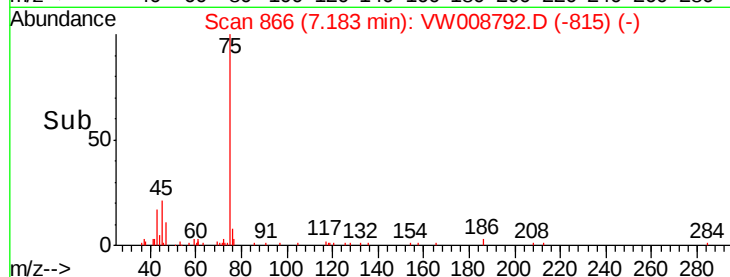
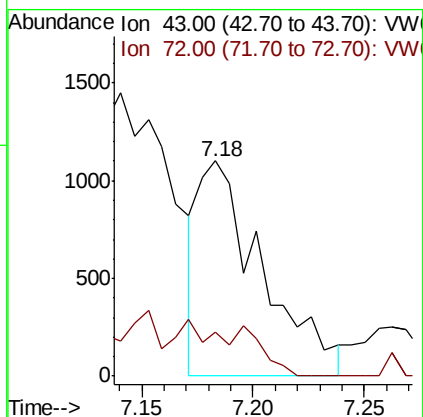
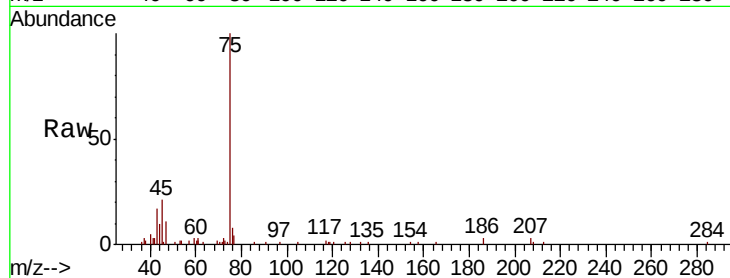
Acq: 22 Feb 2019 16:32

Tgt Ion: 43 Resp: 2176

Ion Ratio Lower Upper

43 100

72 23.7 19.7 29.5



#29

Tetrahydrofuran

Concen: 3.396 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008792.D

Acq: 22 Feb 2019 16:32

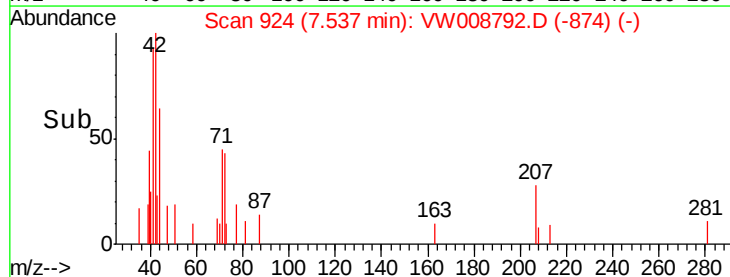
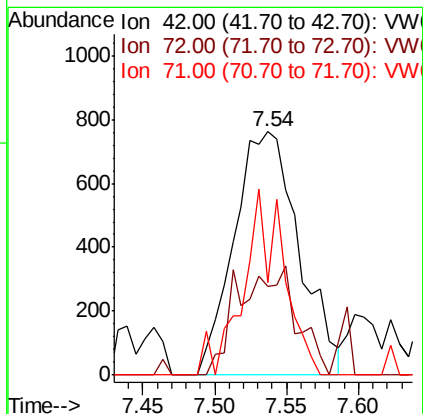
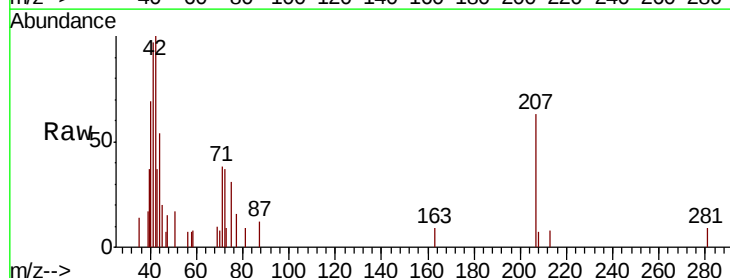
Tgt Ion: 42 Resp: 2386

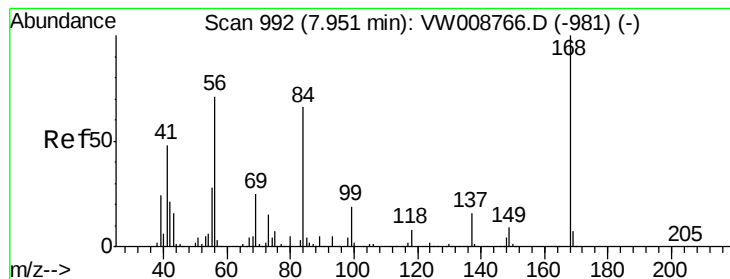
Ion Ratio Lower Upper

42 100

72 39.9 32.7 49.1

71 47.5 31.3 46.9#





#31

Cyclohexane

Concen: 1.286 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008792.D

Acq: 22 Feb 2019 16:32

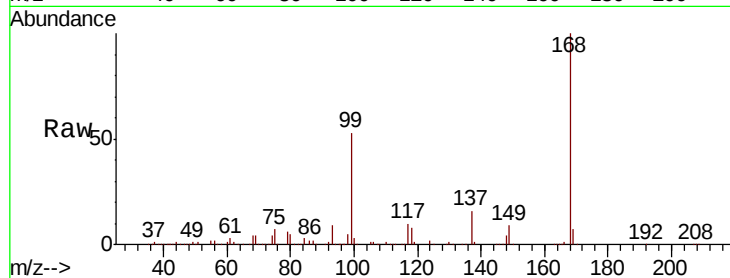
Tgt Ion: 56 Resp: 8247

Ion Ratio Lower Upper

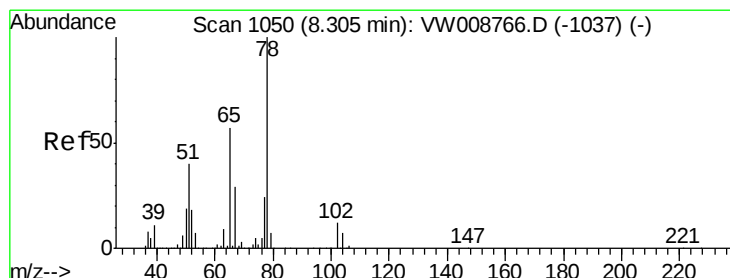
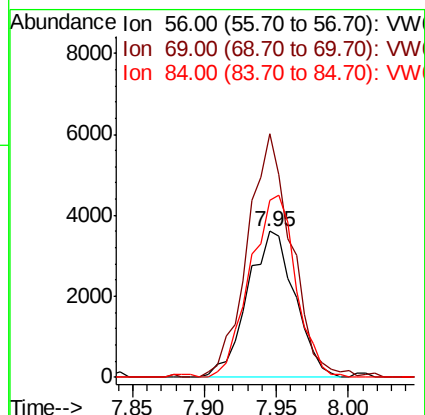
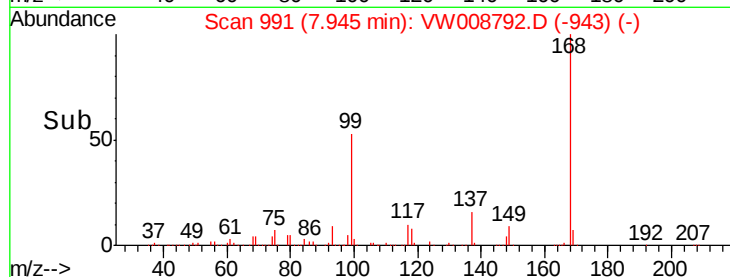
56 100

69 167.1 28.2 42.4#

84 119.7 74.1 111.1#



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: 56.630 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008792.D

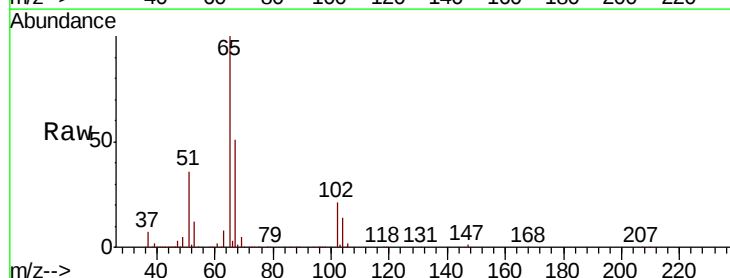
Acq: 22 Feb 2019 16:32

Tgt Ion: 65 Resp: 192649

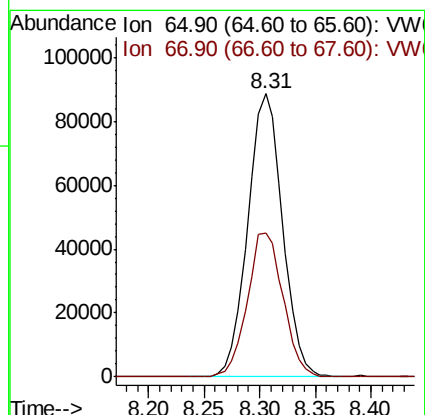
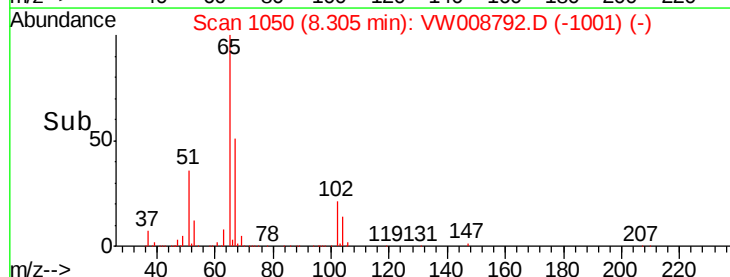
Ion Ratio Lower Upper

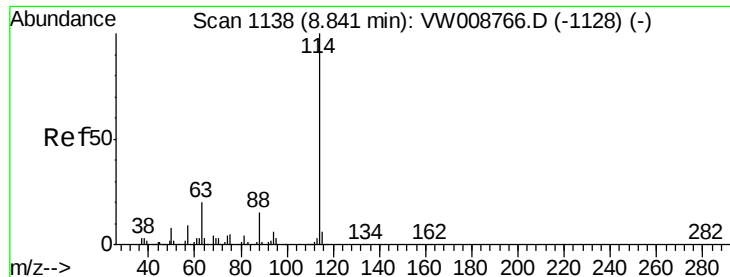
65 100

67 52.2 0.0 101.4



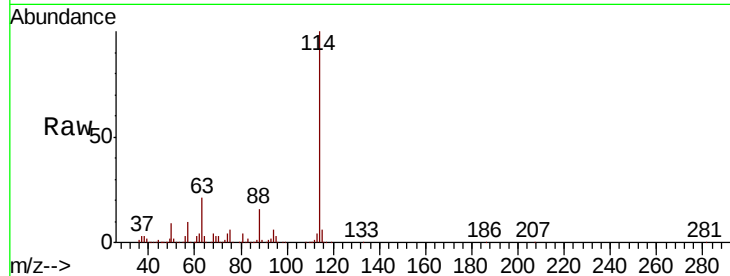
Abundance Ion 64.90 (64.60 to 65.60): VW  
Ion 66.90 (66.60 to 67.60): VW



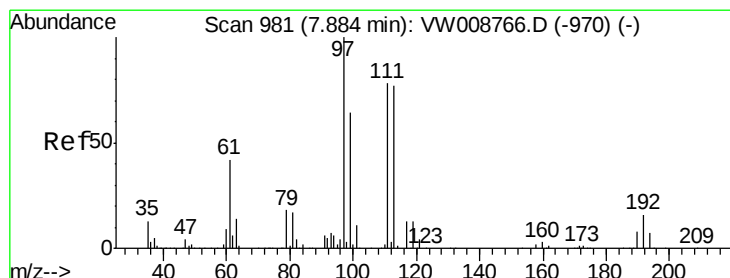
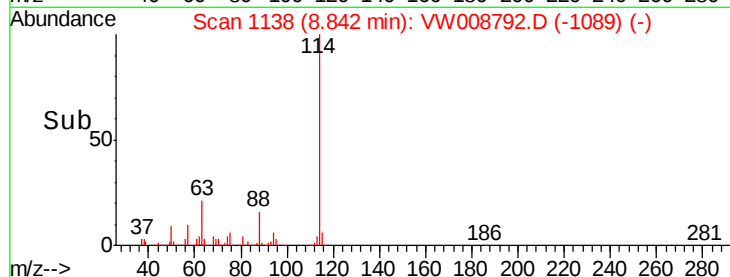
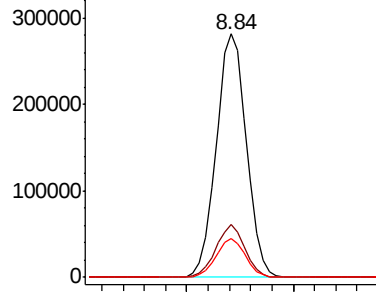


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. 0.00 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 558746 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 21.5  | 0.0   | 40.8   |
| 88       | 16.1  | 0.0   | 30.4   |

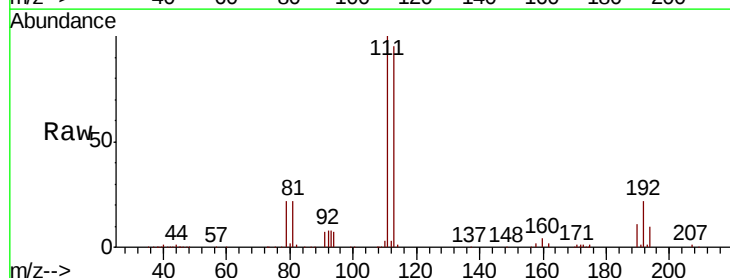


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

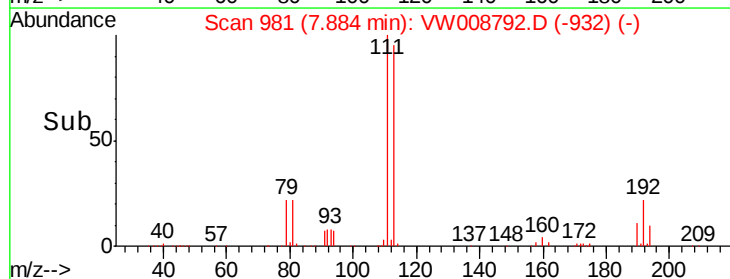
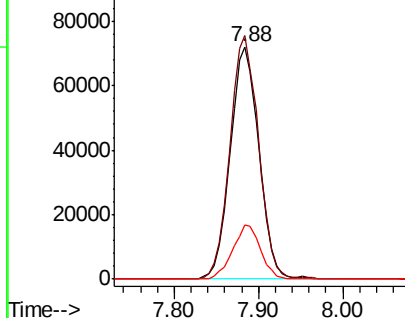


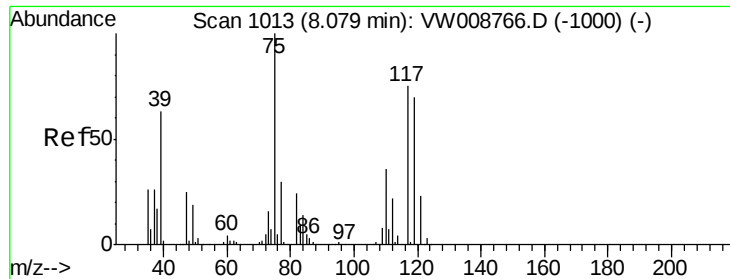
#35  
Dibromofluoromethane  
Concen: 49.415 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 165775 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 104.2 | 81.9  | 122.9  |
| 192      | 22.5  | 17.1  | 25.7   |



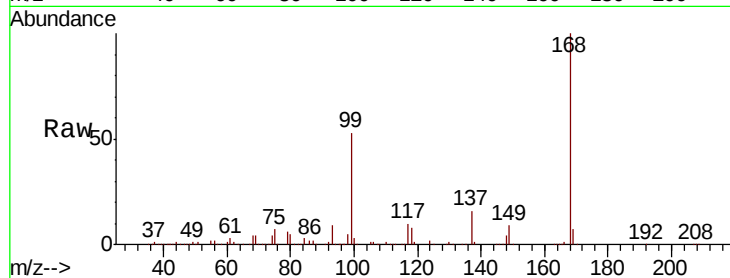
Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



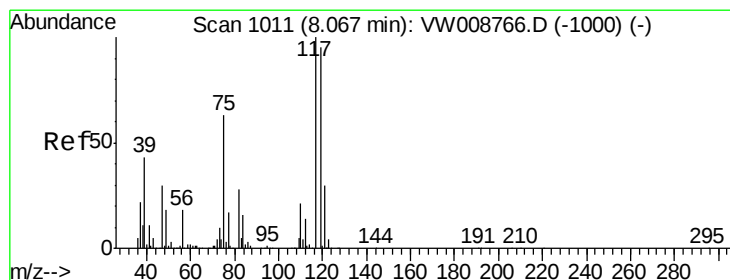
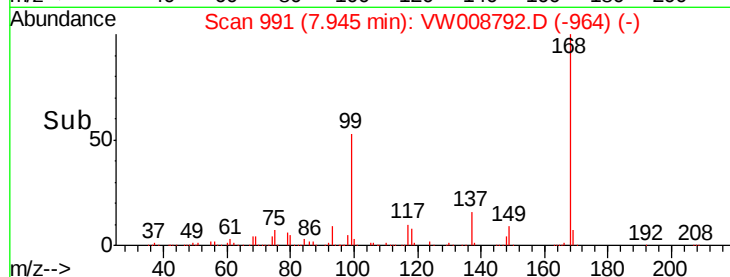
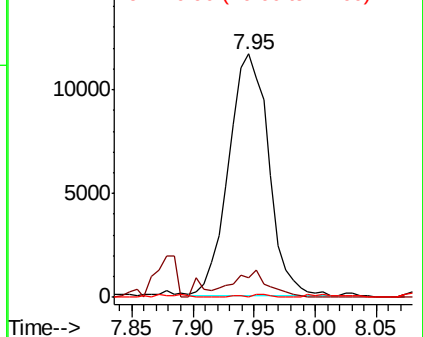


#36  
 1,1-Dichloropropene  
 Concen: 4.846 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW008792.D  
 Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.7   | 17.5  | 52.6# |
| 77      | 0.7   | 24.5  | 36.7# |

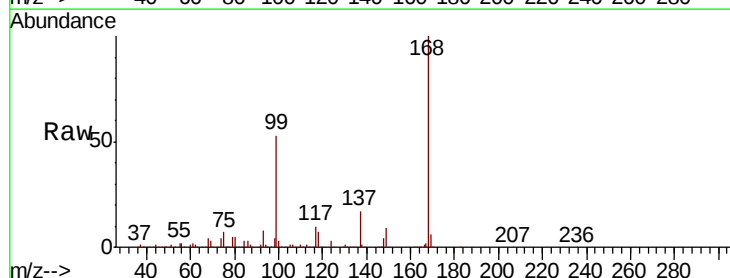


Abundance Ion 74.90 (74.60 to 75.60): VW  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VW

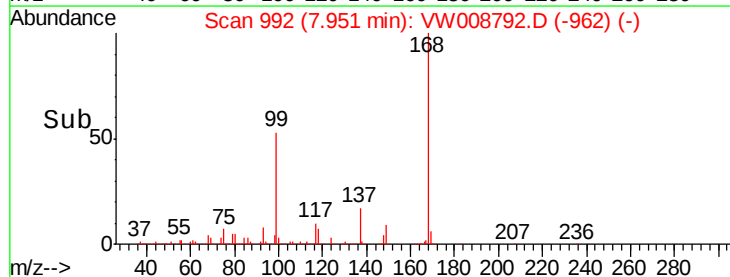
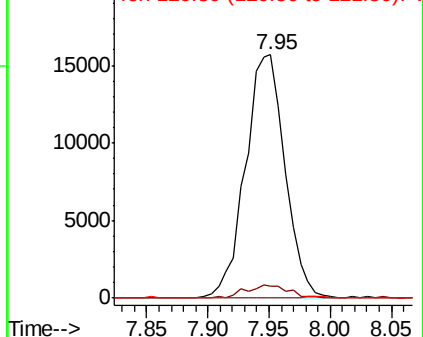


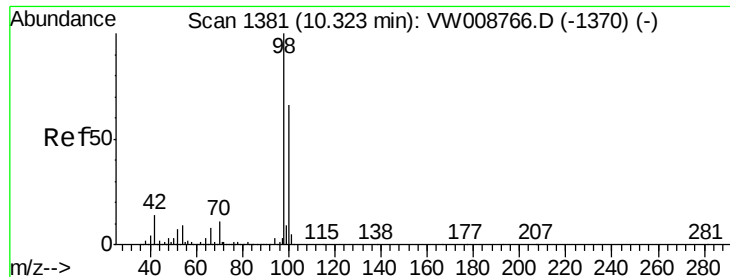
#38  
 Carbon Tetrachloride  
 Concen: 6.161 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW008792.D  
 Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.8   | 76.1  | 114.1# |
| 121     | 0.4   | 24.0  | 36.0#  |



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





#50

Toluene-d8

Concen: 50.614 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008792.D

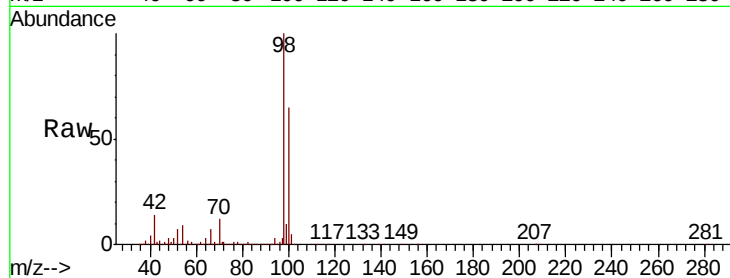
Acq: 22 Feb 2019 16:32

Tgt Ion: 98 Resp: 655468

Ion Ratio Lower Upper

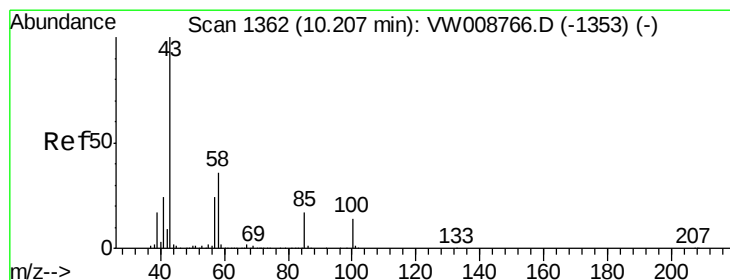
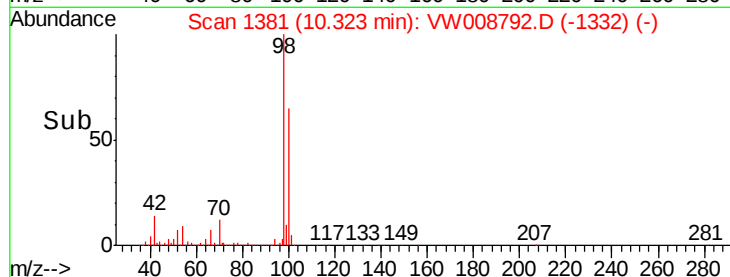
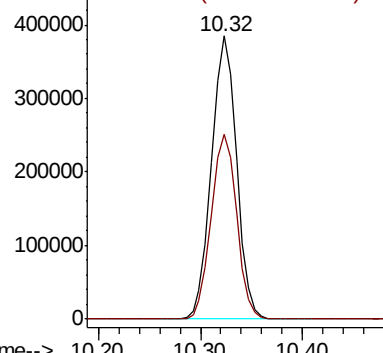
98 100

100 66.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.308 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008792.D

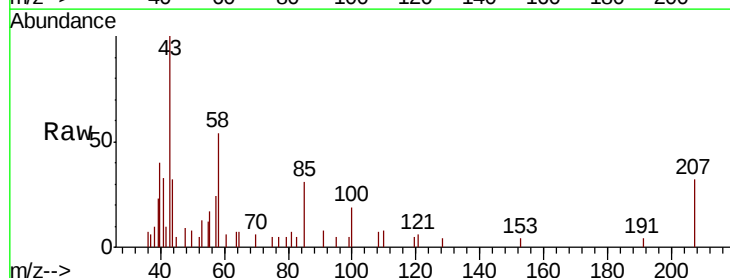
Acq: 22 Feb 2019 16:32

Tgt Ion: 43 Resp: 3352

Ion Ratio Lower Upper

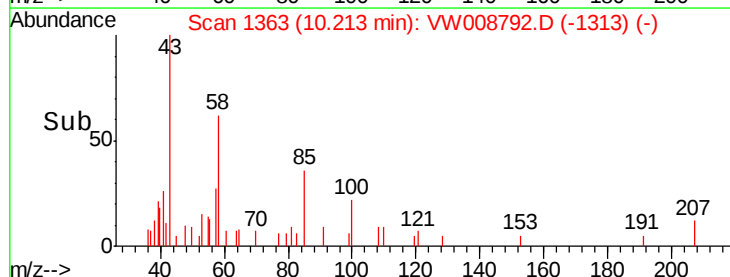
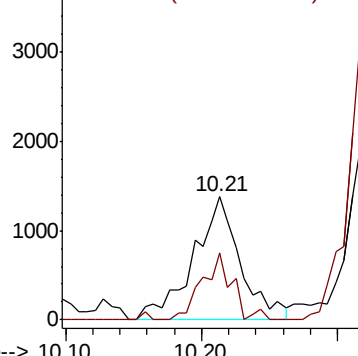
43 100

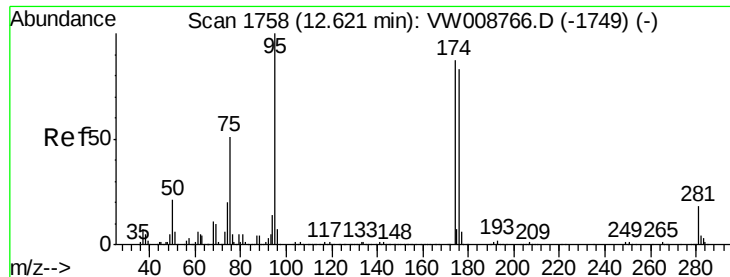
58 33.6 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 43.419 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008792.D

Acq: 22 Feb 2019 16:32

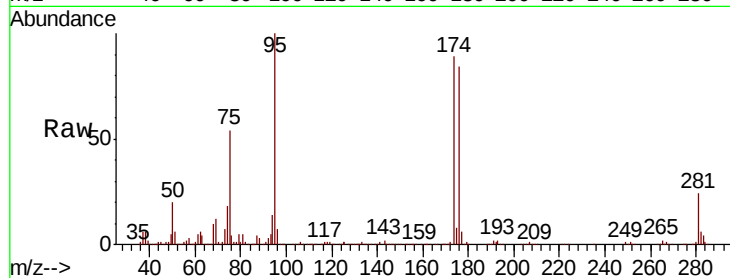
Tgt Ion: 95 Resp: 220163

Ion Ratio Lower Upper

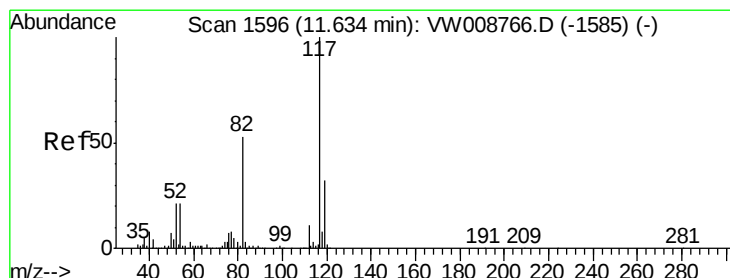
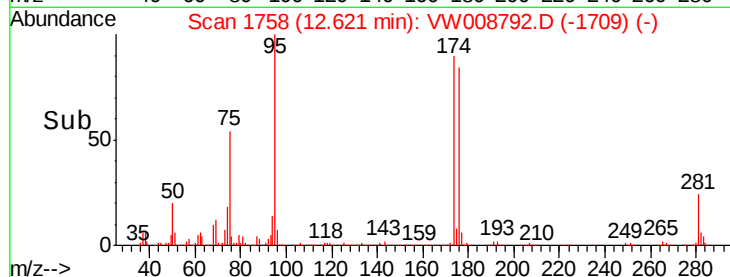
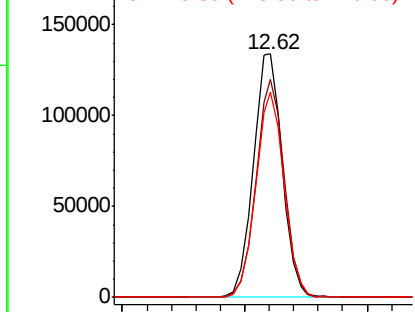
95 100

174 87.2 0.0 169.2

176 82.9 0.0 163.6



Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008792.D

Acq: 22 Feb 2019 16:32

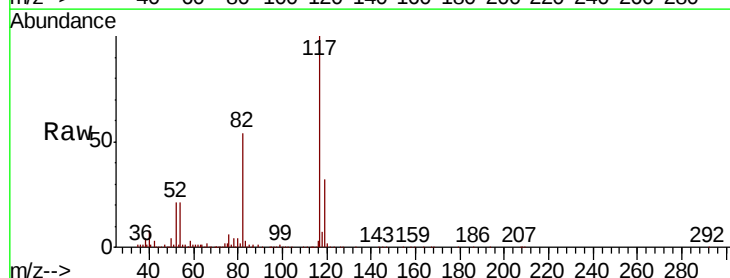
Tgt Ion: 117 Resp: 489146

Ion Ratio Lower Upper

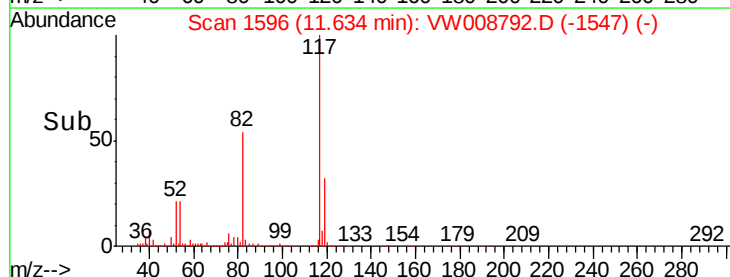
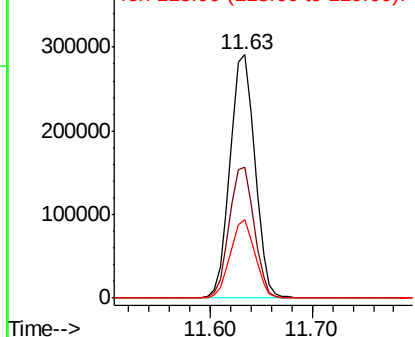
117 100

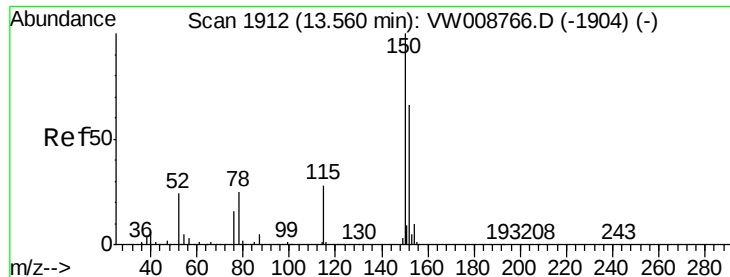
82 53.7 42.2 63.4

119 32.3 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VW  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): VW

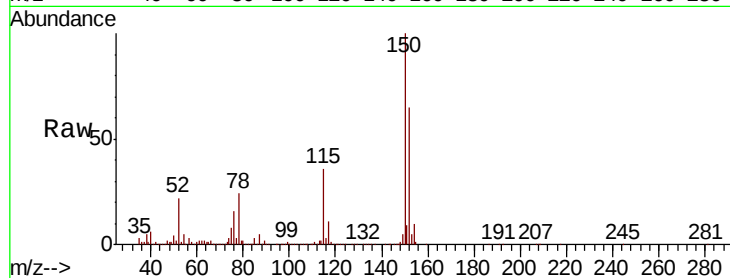




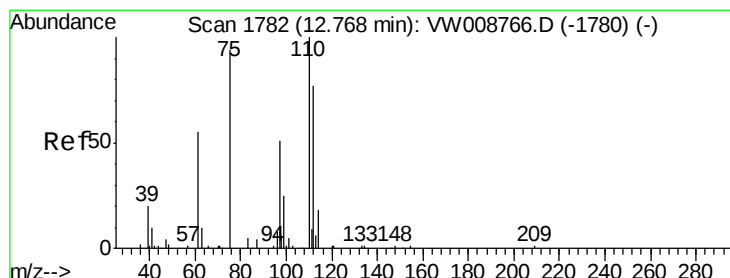
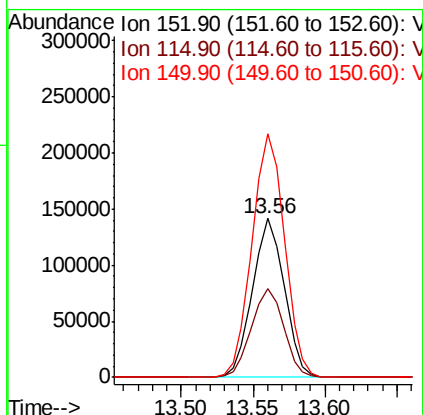
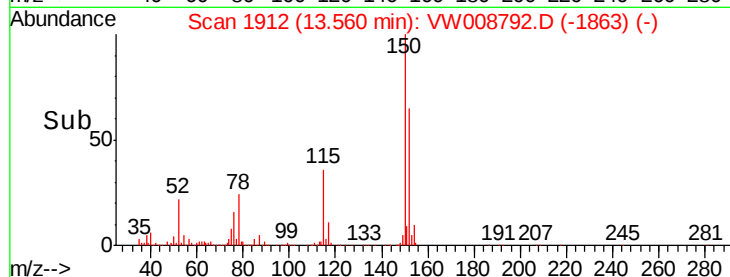
#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.7  | 28.6  | 85.8  |
| 150     | 156.8 | 0.0   | 348.0 |



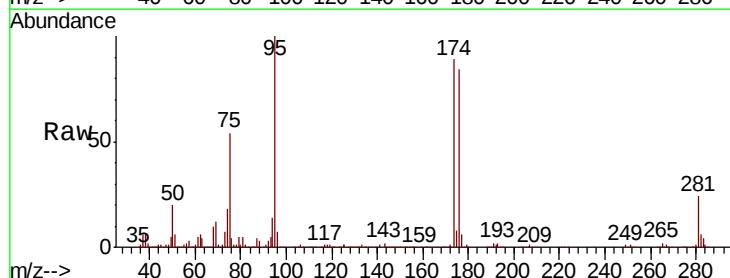
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



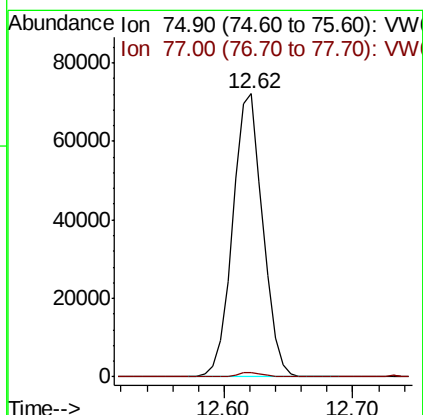
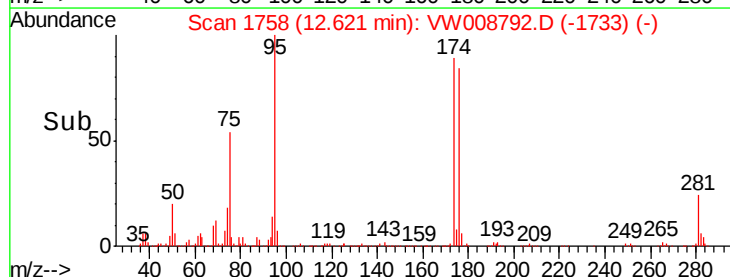
#76

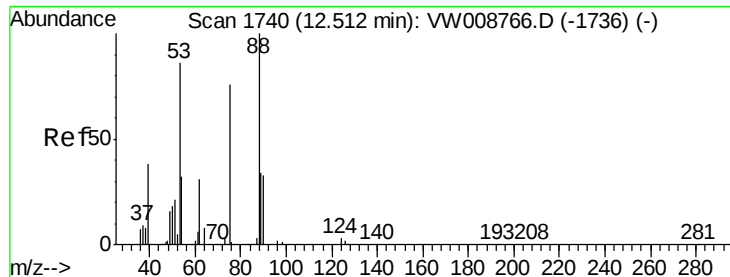
1,2,3-Trichloropropane  
Concen: 65.406 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 0.0   | 0.0#  |



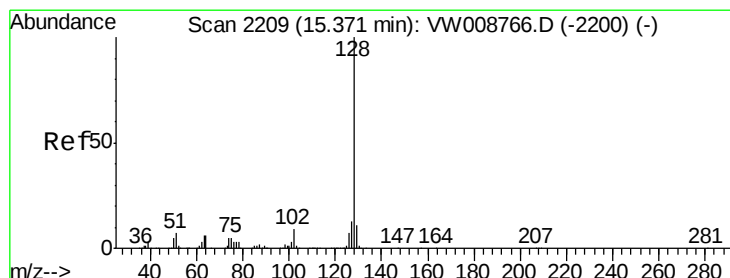
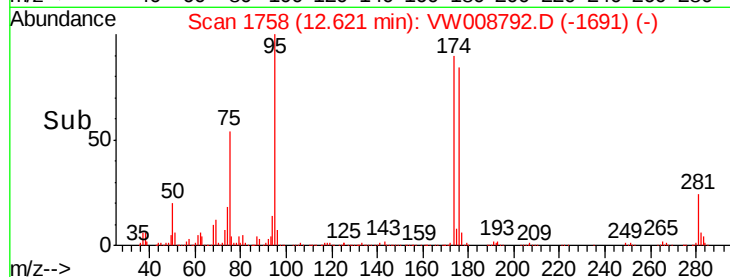
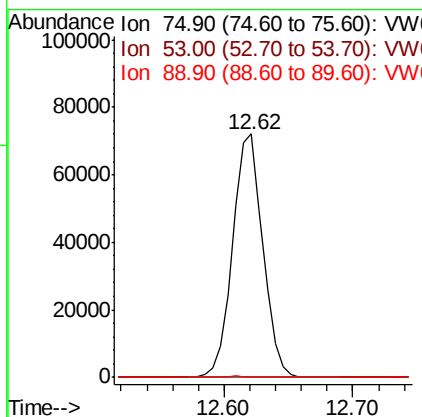
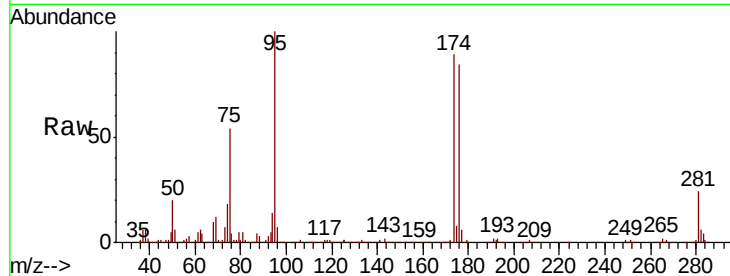
Abundance Ion 74.90 (74.60 to 75.60): VW  
Ion 77.00 (76.70 to 77.70): VW





#81  
trans-1,4-Dichloro-2-butene  
Concen: 159.006 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.11 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.4   | 88.2  | 132.2# |
| 89      | 0.1   | 39.5  | 59.3#  |



#95  
Naphthalene  
Concen: 5.002 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW008792.D  
Acq: 22 Feb 2019 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 15.2  | 10.8  | 16.2  |
| 129     | 12.8  | 8.7   | 13.1  |

