

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010419\  
 Data File : VW008053.D  
 Acq On : 04 Jan 2019 17:42  
 Operator : SY/AP  
 Sample : K1058-02  
 Misc : 6.6G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-5

Quant Time: Jan 05 00:40:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010219S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 03 05:03:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 70536    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 117233   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 85461    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 29756    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 42005    | 53.84  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.68% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 36501    | 49.39  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.78%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 136934   | 49.39  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.78%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 38615    | 36.32  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 72.64%  |          |

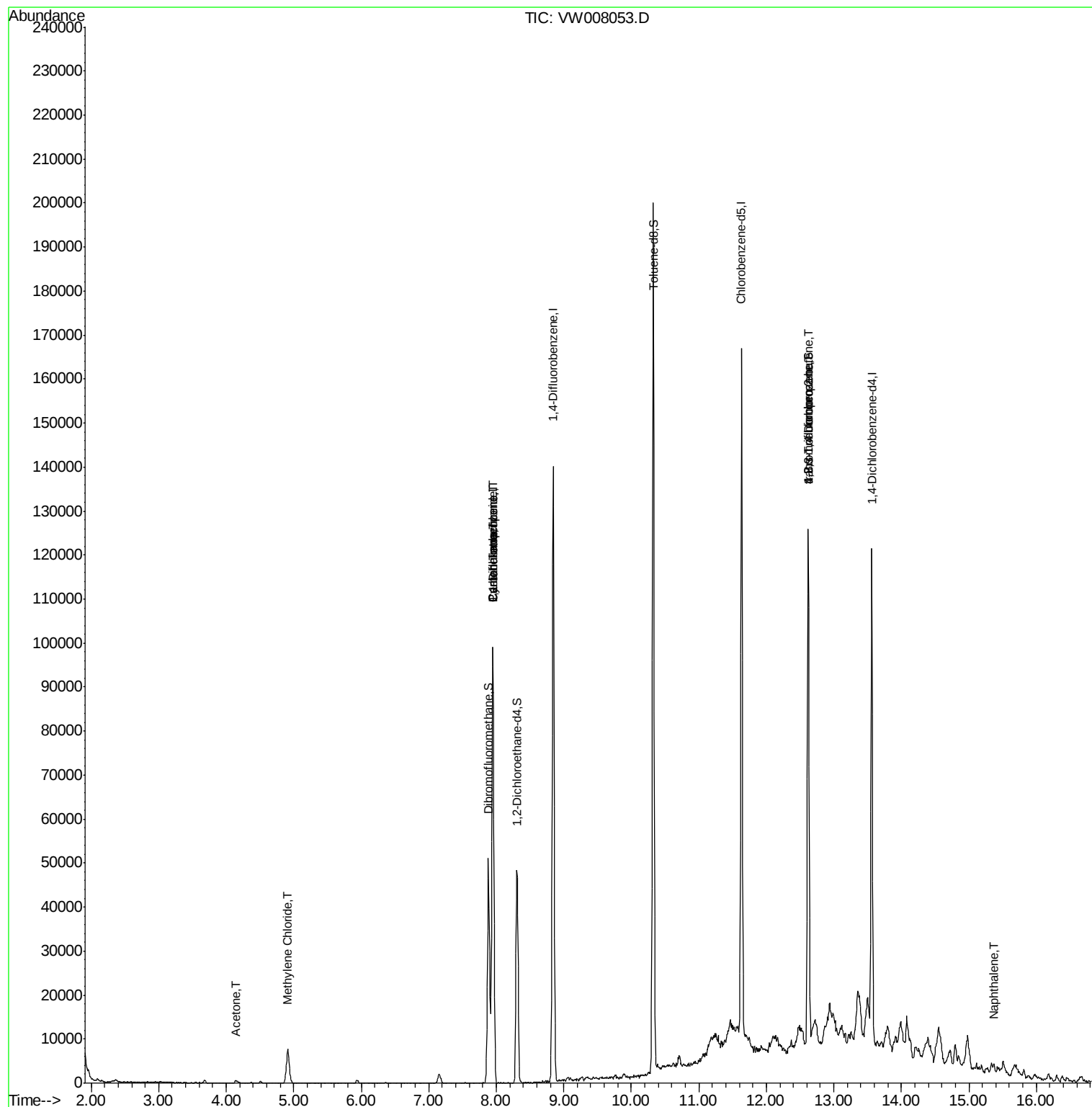
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 4.15  | 43   | 904      | 7.485   | ug/l # | 73     |
| 20) Methylene Chloride         | 4.91  | 84   | 6109     | 6.117   | ug/l   | 96     |
| 31) Cyclohexane                | 7.95  | 56   | 1498     | 1.256   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 5459     | 4.720   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 7689     | 5.548   | ug/l # | 13     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 20905    | 88.310  | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 20905    | 208.838 | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 2189     | 2.029   | ug/l   | 94     |

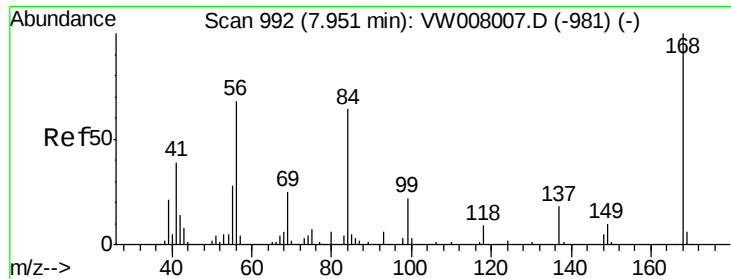
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jan 03 05:03:55 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

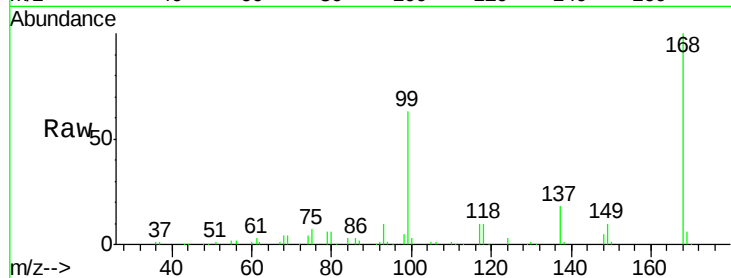
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-5

Tot Ion:168 Resp: 70536

Ion Ratio Lower Upper

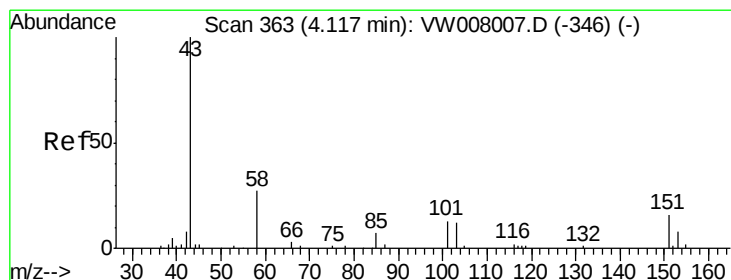
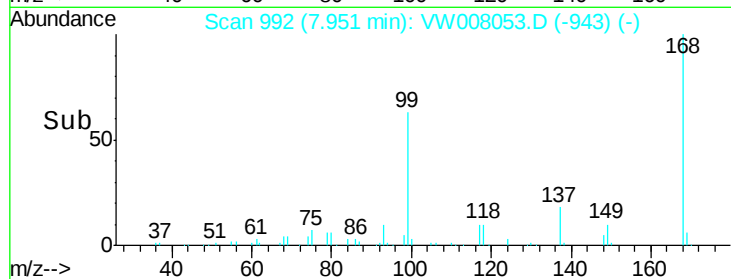
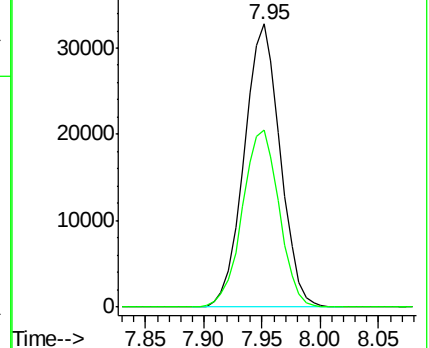
168 100

99 62.5 51.6 77.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 7.485 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW008053.D

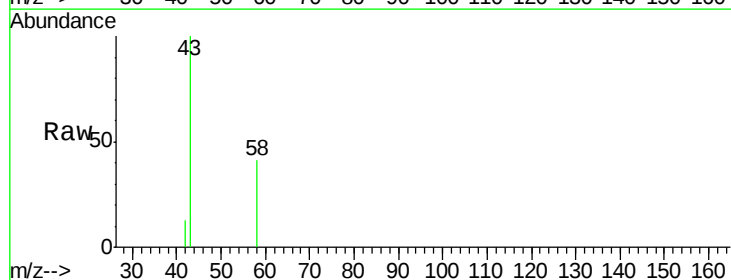
Acq: 04 Jan 2019 17:42

Tgt Ion: 43 Resp: 904

Ion Ratio Lower Upper

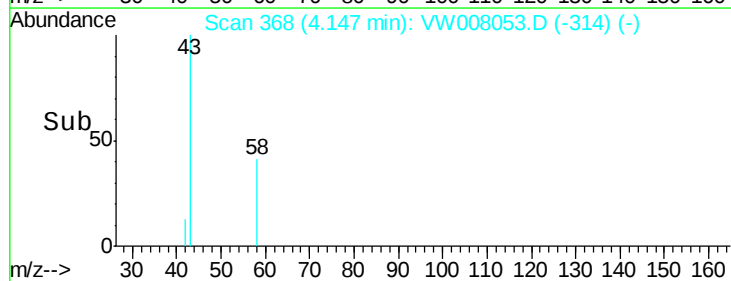
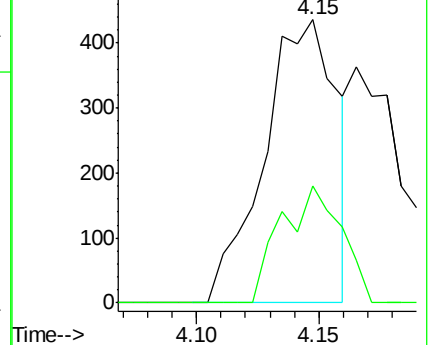
43 100

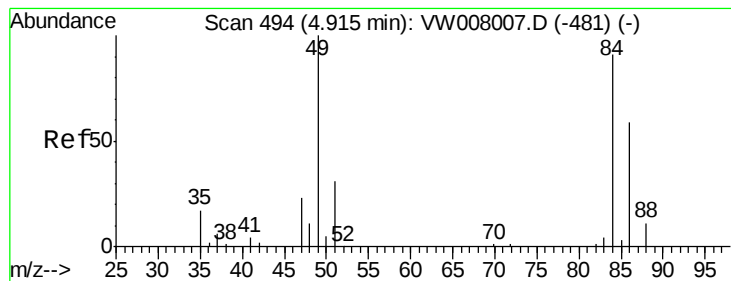
58 41.3 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methvlene Chloride

Concen: 6.117 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampled :

TP-5

Tot Ion: 84 Resp: 6109

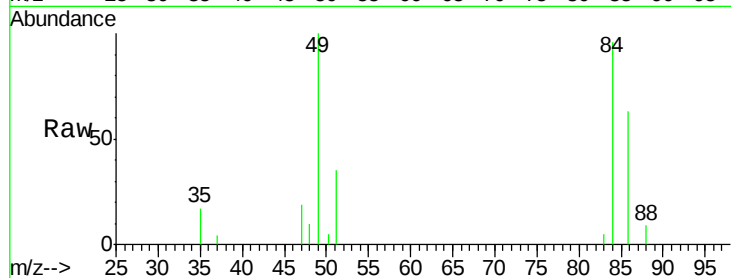
Ion Ratio Lower Upper

84 100

49 103.7 87.7 131.5

51 36.1 27.3 40.9

86 64.9 51.4 77.0

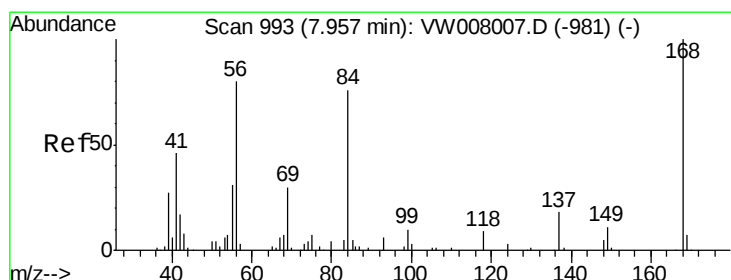
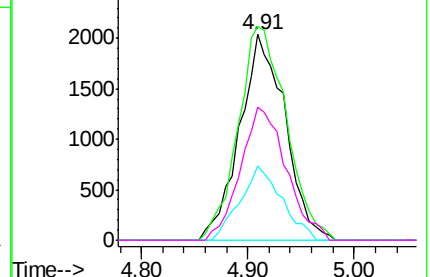
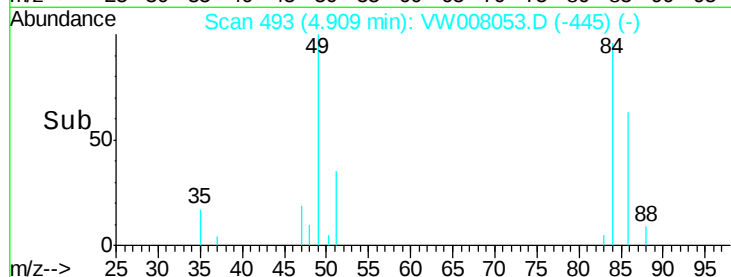


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#31

Cyclohexane

Concen: 1.256 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

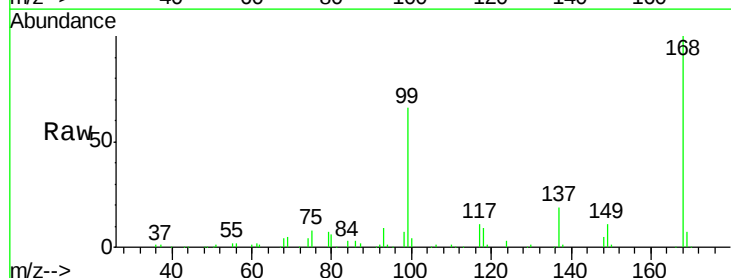
Tgt Ion: 56 Resp: 1498

Ion Ratio Lower Upper

56 100

69 197.0 29.8 44.6#

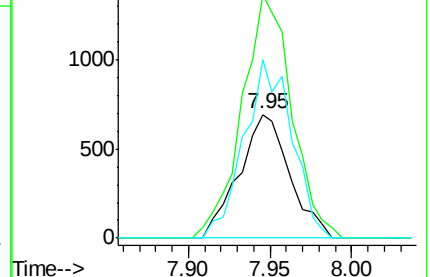
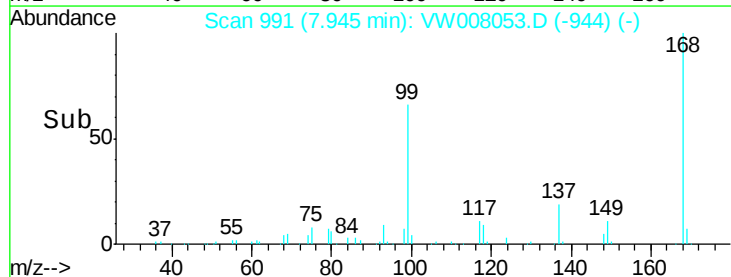
84 144.1 75.2 112.8#

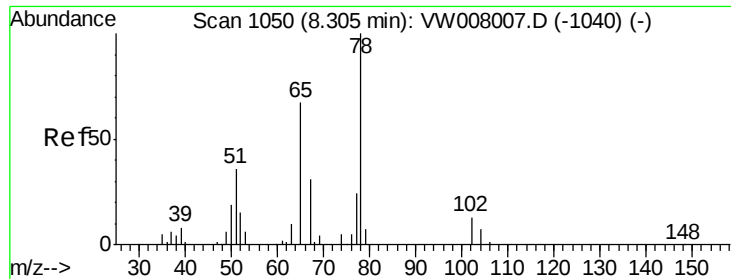


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 53.841 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampleId :

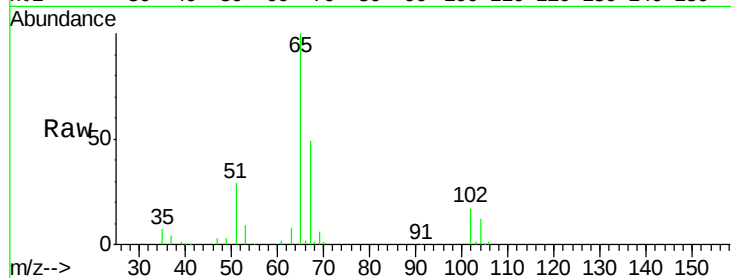
TP-5

Tot Ion: 65 Resp: 42005

Ion Ratio Lower Upper

65 100

67 49.7 0.0 94.8



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

20000

15000

10000

5000

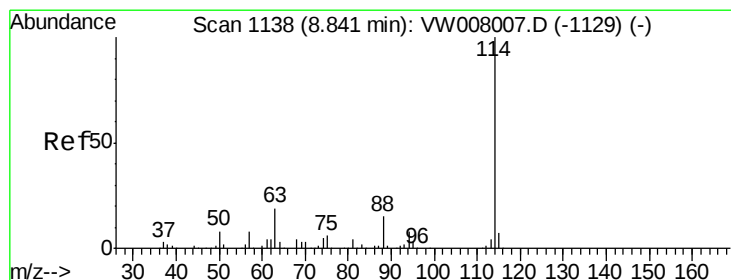
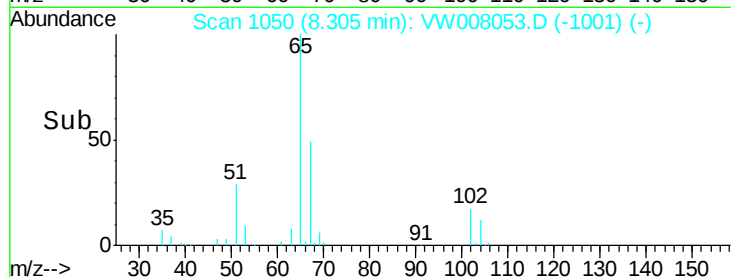
0

Time-->

8.20

8.30

8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

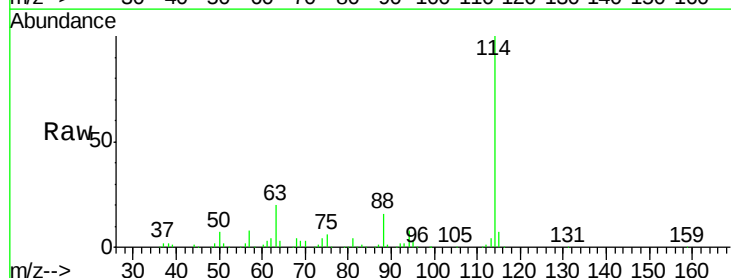
Tgt Ion: 114 Resp: 117233

Ion Ratio Lower Upper

114 100

63 20.0 0.0 37.8

88 16.4 0.0 31.0



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

8.84

80000

60000

40000

20000

0

Time-->

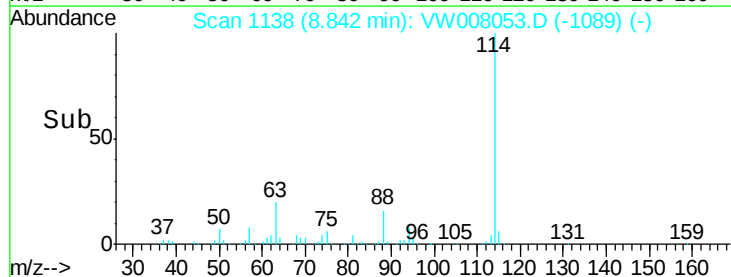
8.75

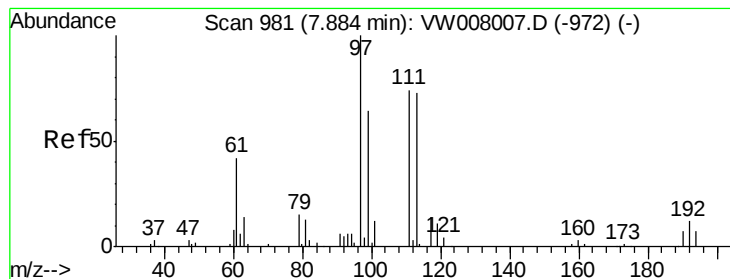
8.80

8.85

8.90

8.95





#35

Dibromofluoromethane

Concen: 49.390 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-5

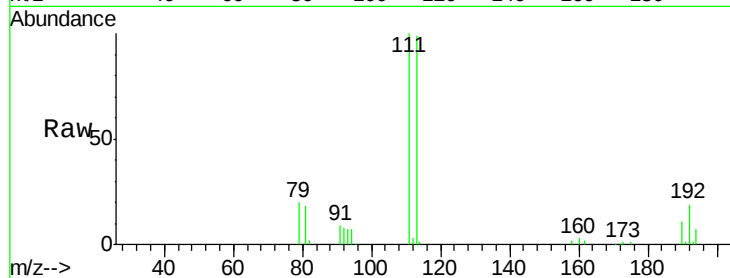
Tot Ion:113 Resp: 36501

Ion Ratio Lower Upper

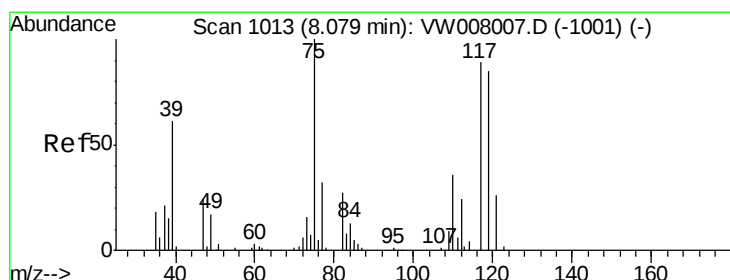
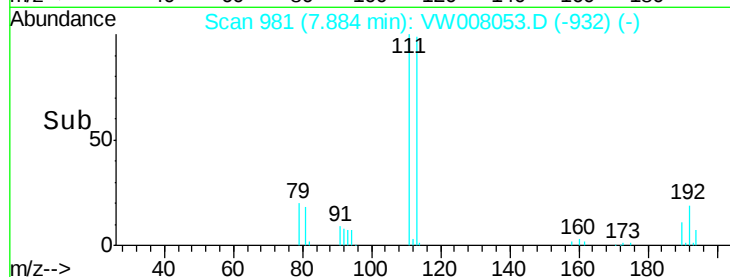
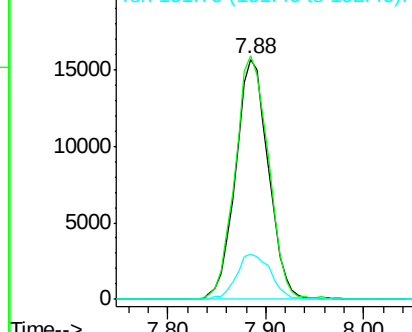
113 100

111 102.8 81.4 122.0

192 19.6 14.8 22.2



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



#36

1,1-Dichloropropene

Concen: 4.720 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

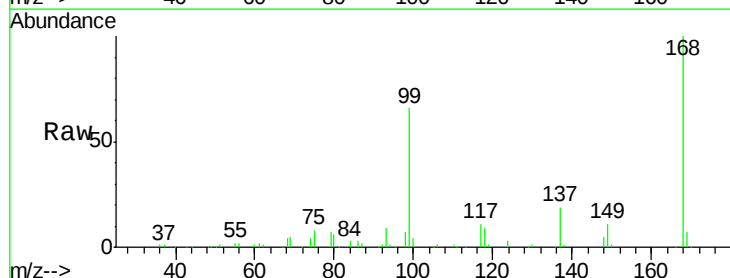
Tgt Ion: 75 Resp: 5459

Ion Ratio Lower Upper

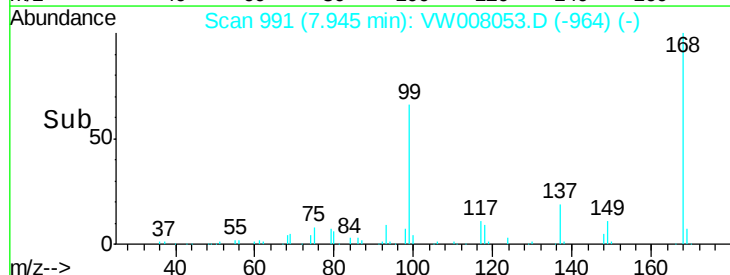
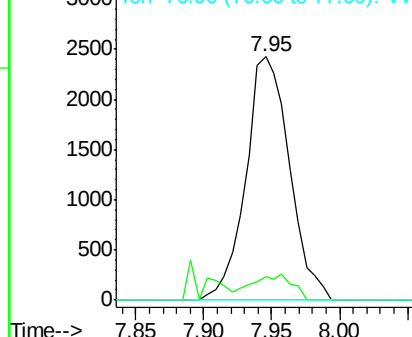
75 100

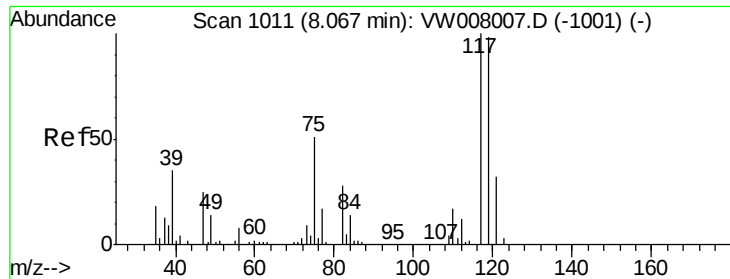
110 9.8 18.1 54.3#

77 0.0 25.3 37.9#



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: 5.548 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampleId :

TP-5

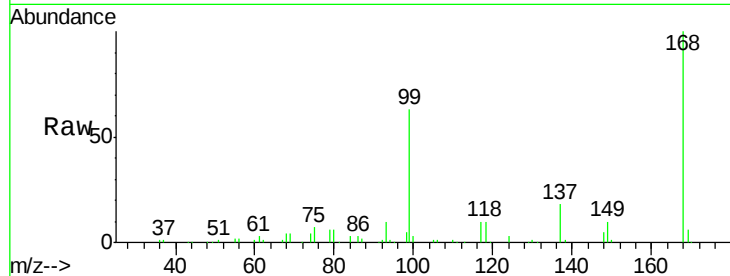
Tot Ion:117 Resp: 7689

Ion Ratio Lower Upper

117 100

119 3.1 78.7 118.1#

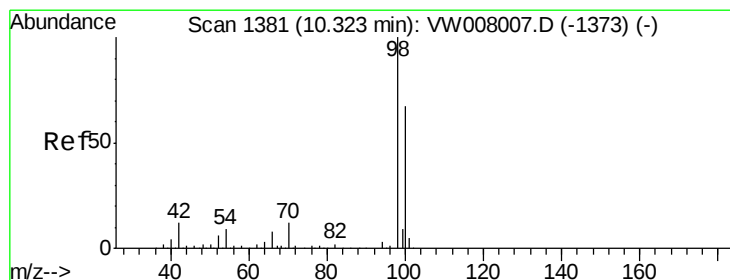
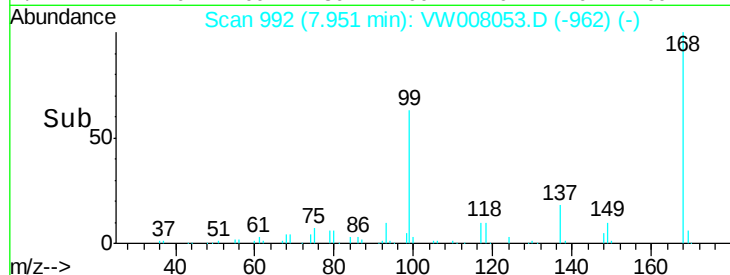
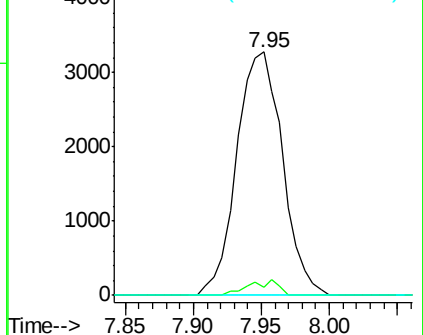
121 0.0 25.8 38.8#



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: 49.393 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008053.D

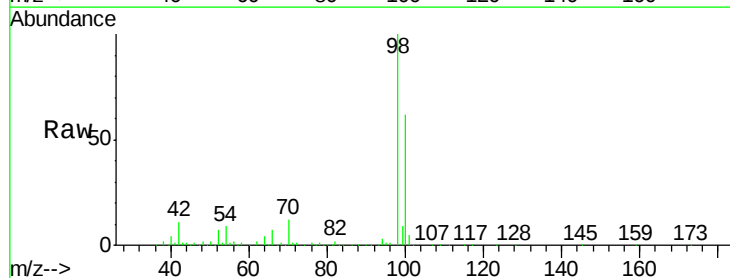
Acq: 04 Jan 2019 17:42

Tgt Ion: 98 Resp: 136934

Ion Ratio Lower Upper

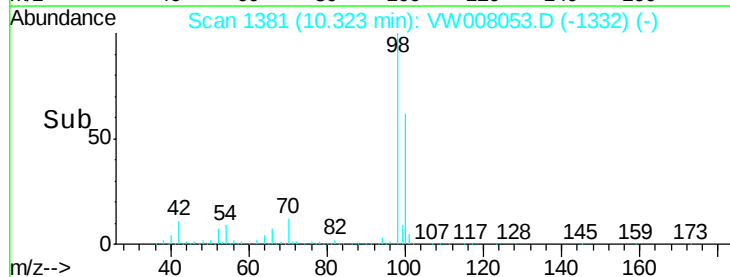
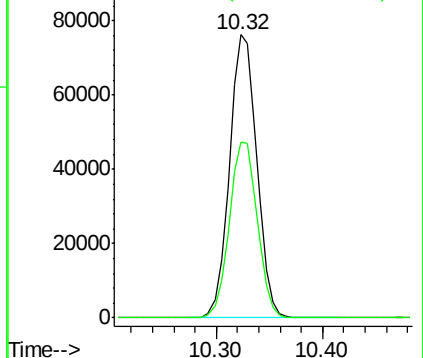
98 100

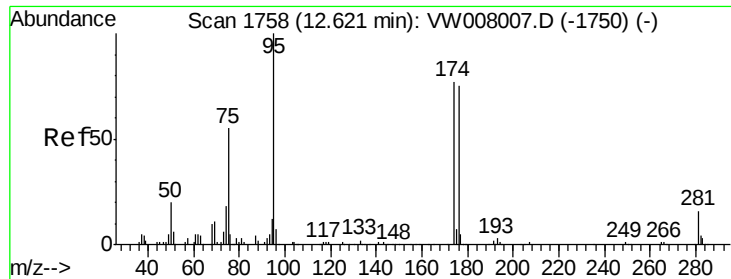
100 63.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 36.319 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampled :

TP-5

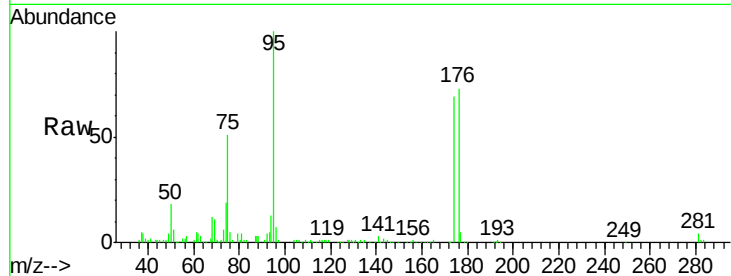
Tot Ion: 95 Resp: 38615

Ion Ratio Lower Upper

95 100

174 71.1 0.0 149.6

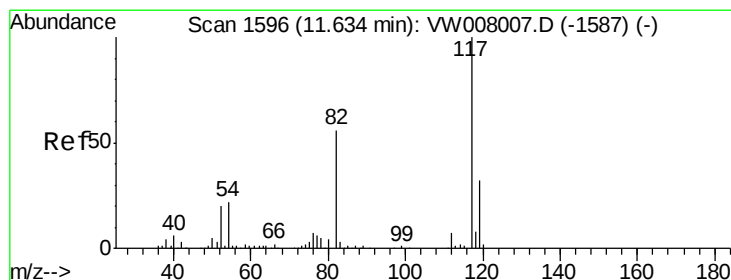
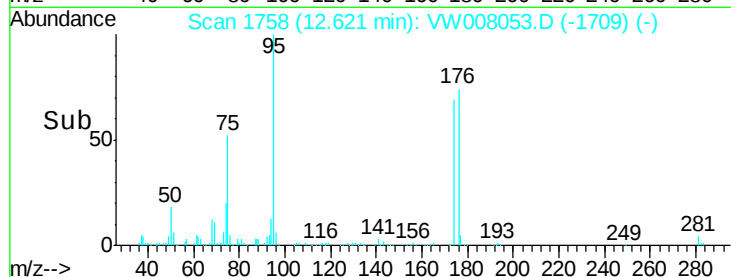
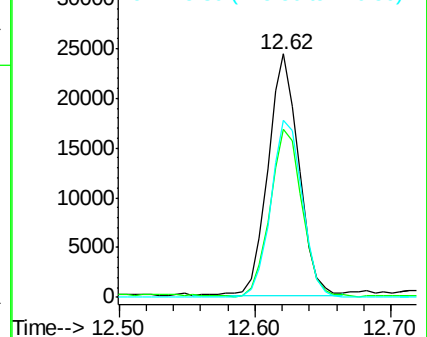
176 74.3 0.0 145.4



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: VW008053.D

Acq: 04 Jan 2019 17:42

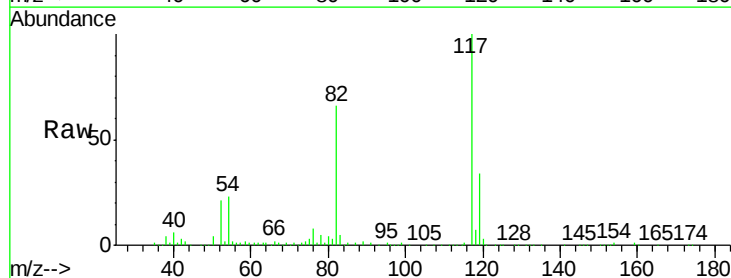
Tgt Ion: 117 Resp: 85461

Ion Ratio Lower Upper

117 100

82 65.8 44.8 67.2

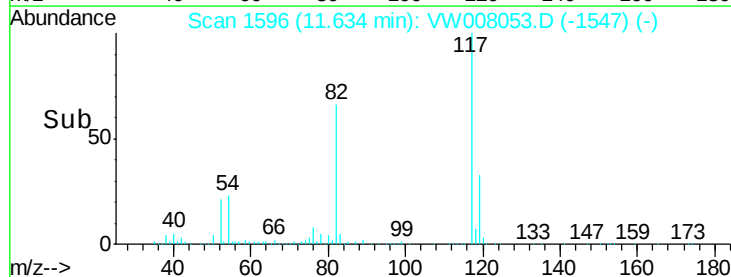
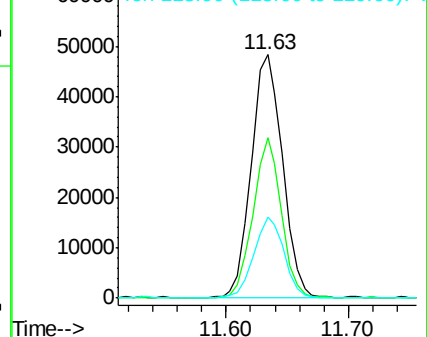
119 33.4 25.6 38.4

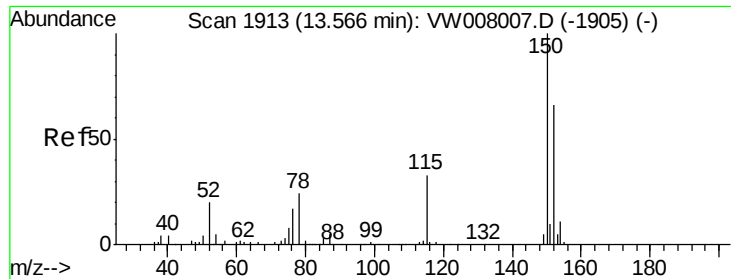


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampleId :

TP-5

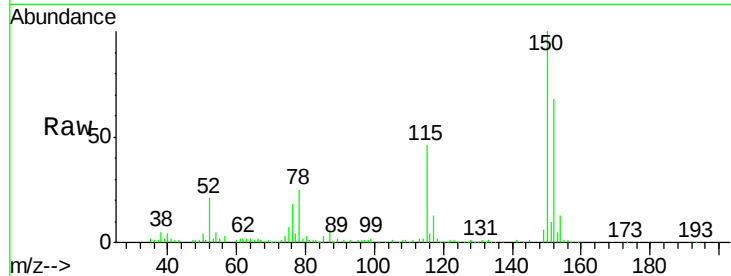
Tot Ion:152 Resp: 29756

Ion Ratio Lower Upper

152 100

115 67.8 32.1 96.5

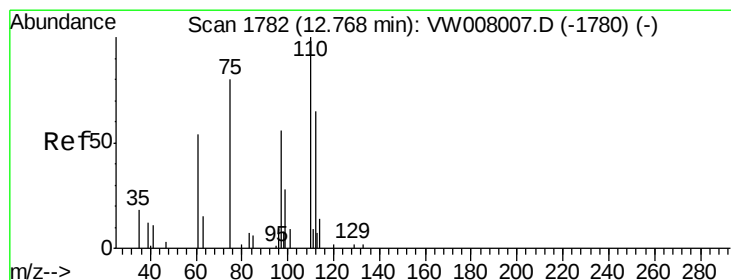
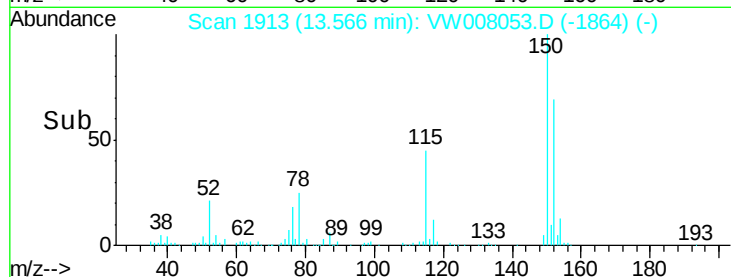
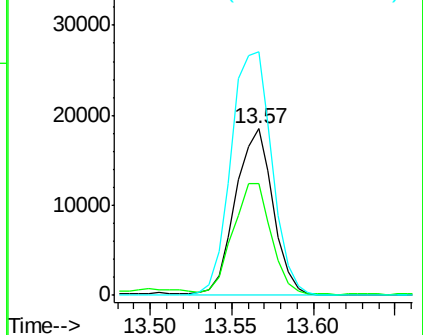
150 159.2 0.0 345.0



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: 88.310 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008053.D

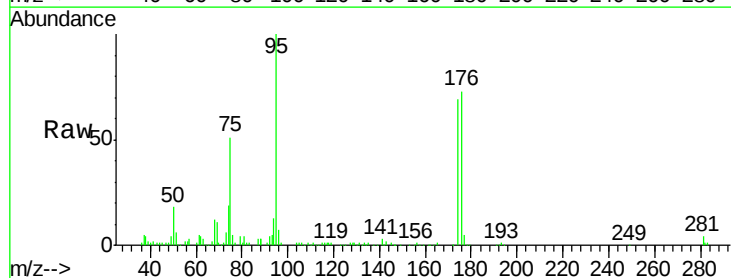
Acq: 04 Jan 2019 17:42

Tgt Ion: 75 Resp: 20905

Ion Ratio Lower Upper

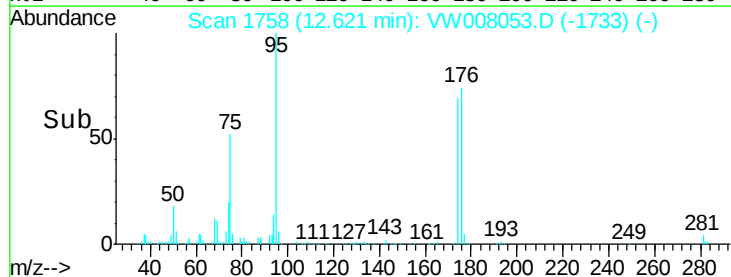
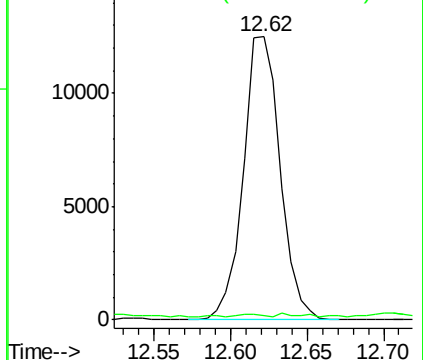
75 100

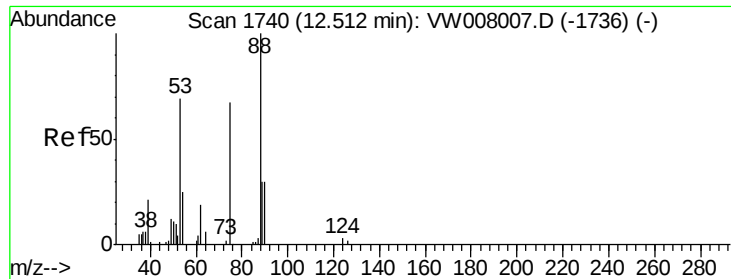
77 0.5 186.2 558.6#



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: 208.838 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Instrument :

MSVOA\_W

ClientSampleId :

TP-5

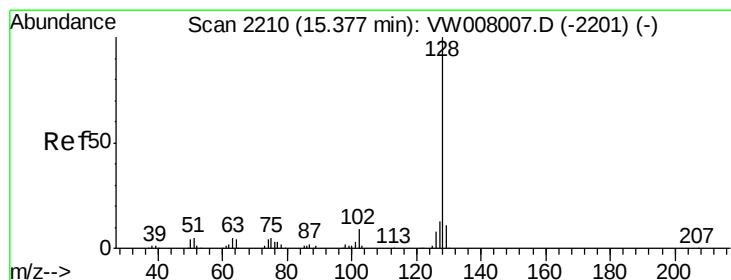
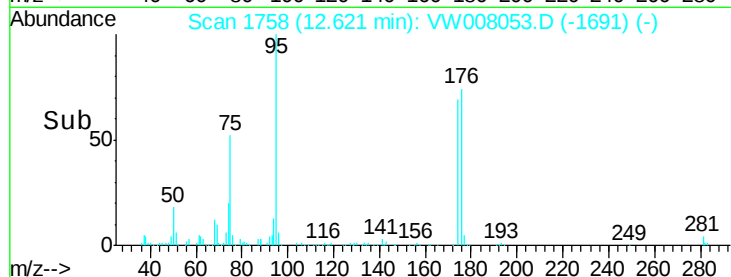
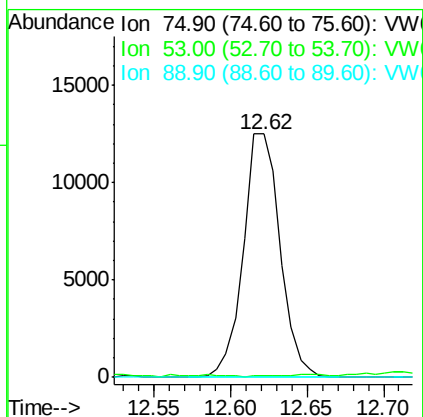
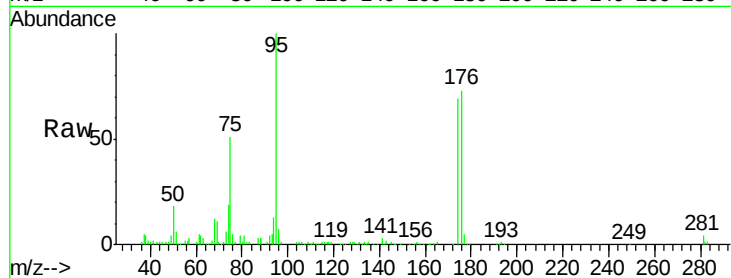
Tot Ion: 75 Resp: 20905

Ion Ratio Lower Upper

75 100

53 0.0 87.6 131.4#

89 0.0 42.2 63.2#



#95

Naphthalene

Concen: 2.029 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW008053.D

Acq: 04 Jan 2019 17:42

Tgt Ion:128 Resp: 2189

Ion Ratio Lower Upper

128 100

127 16.2 10.8 16.2

129 12.6 8.8 13.2

