

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102718\  
 Data File : VW006388.D  
 Acq On : 26 Oct 2018 04:44  
 Operator : SY/AP  
 Sample : J5610-09RE  
 Misc : 4.86G/5ML/MSVOA W/SOIL  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-5(0-2)RE

Quant Time: Oct 26 07:24:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 185614   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 288752   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 214300   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 64311    | 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   | 101574   | 66.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 132.02% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 70323    | 41.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.44%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 304835   | 46.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.92%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 75217    | 30.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 61.70%  |          |

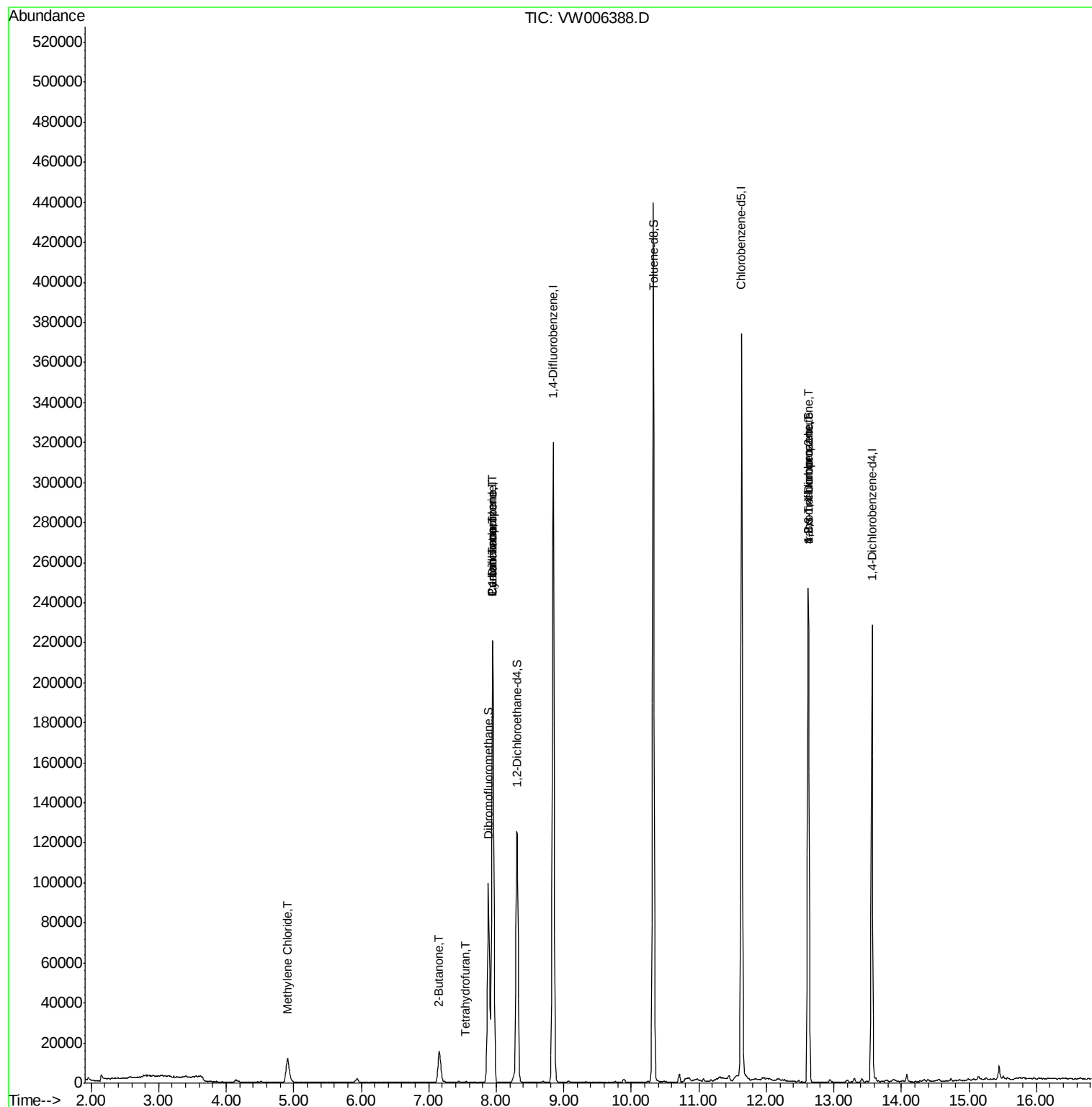
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 4.15  | 43   | 2494     | Below Cal | #      | 81     |
| 20) Methylene Chloride         | 4.90  | 84   | 10436    | 4.943     | ug/l   | 92     |
| 25) 2-Butanone                 | 7.16  | 43   | 977      | 2.350     | ug/l # | 46     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 308      | 1.205     | ug/l # | 61     |
| 31) Cyclohexane                | 7.95  | 56   | 3435     | 1.220     | ug/l # | 17     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 12069    | 4.535     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 16357    | 5.606     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 37710    | 76.770    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 37710    | 183.510   | ug/l # | 10     |

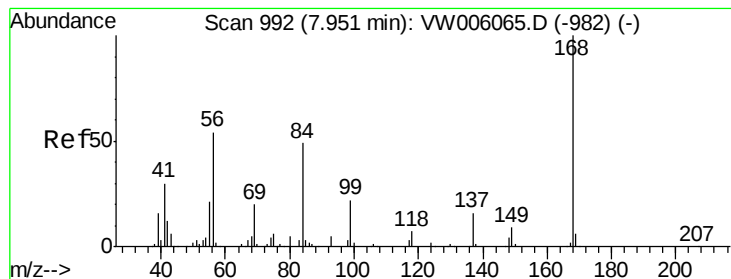
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102718\  
Data File : VW006388.D  
Acq On : 26 Oct 2018 04:44  
Operator : SY/AP  
Sample : J5610-09RE  
Misc : 4.86G/5ML/MSVOA W/SOIL  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-5(0-2)RE

Quant Time: Oct 26 07:24:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 18 17:01:24 2018  
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: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampleId :

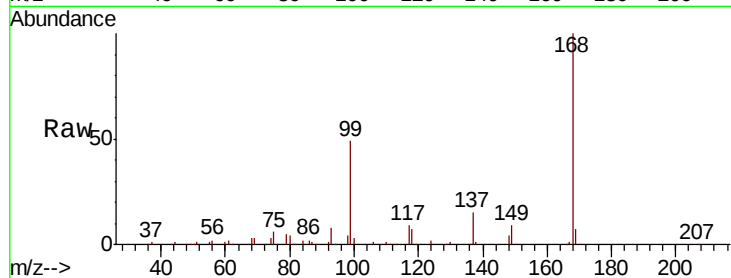
SB-5(0-2)RE

Tot Ion:168 Resp: 185614

Ion Ratio Lower Upper

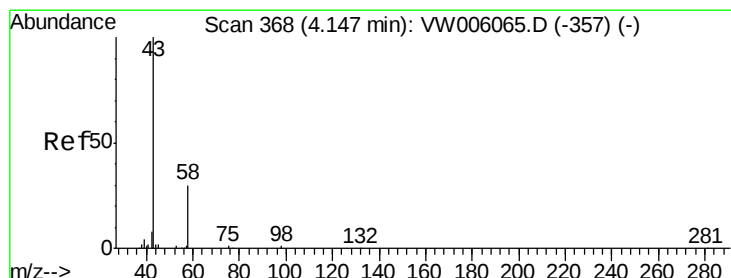
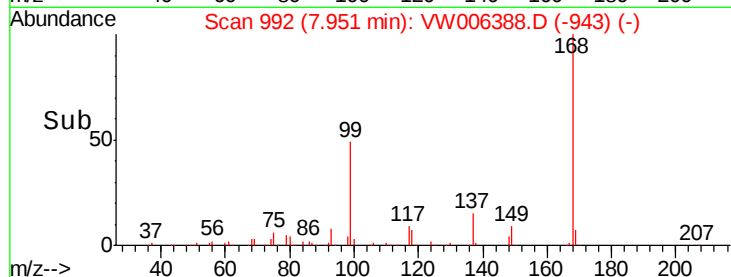
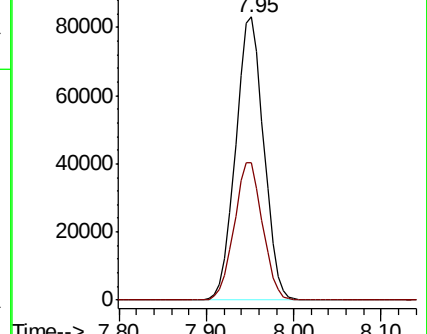
168 100

99 48.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW006388.D

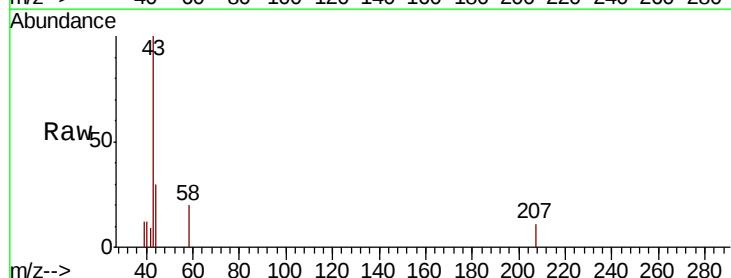
Acq: 26 Oct 2018 04:44

Tgt Ion: 43 Resp: 2494

Ion Ratio Lower Upper

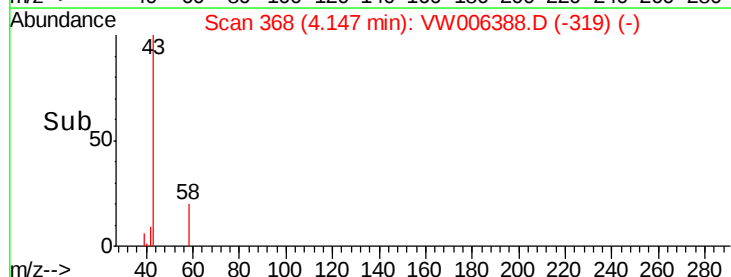
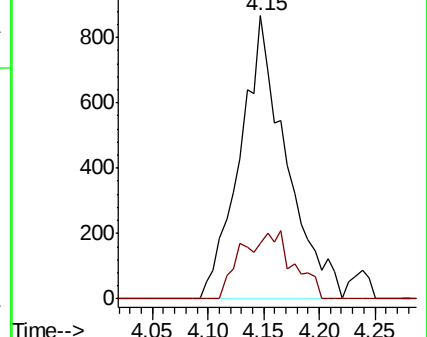
43 100

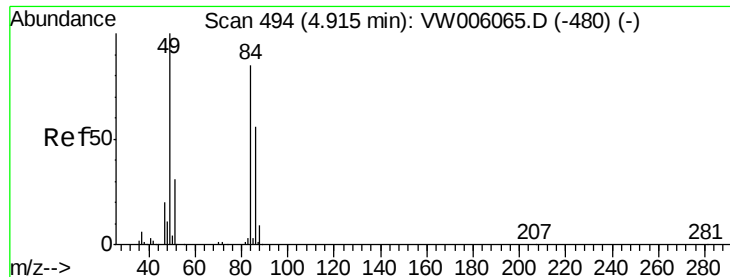
58 19.7 24.0 36.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#20

Methylene Chloride

Concen: 4.943 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-5(0-2)RE

Tot Ion: 84 Resp: 10436

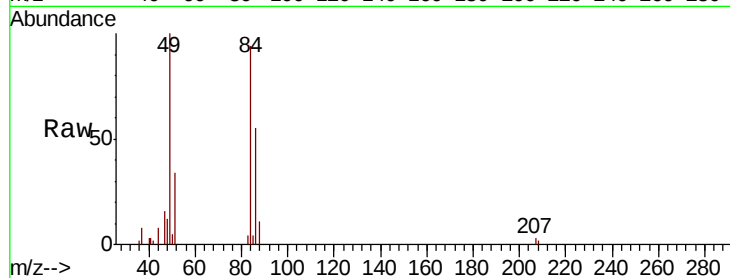
Ion Ratio Lower Upper

84 100

49 105.9 93.6 140.4

51 36.2 29.0 43.4

86 58.4 52.6 79.0



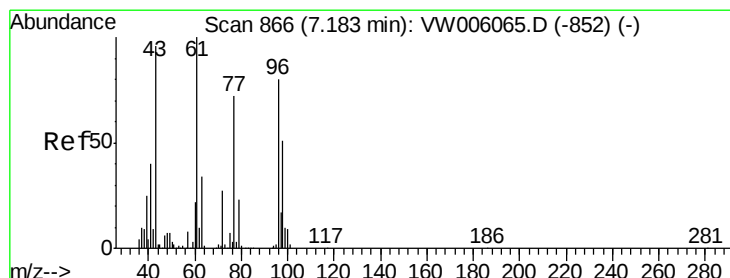
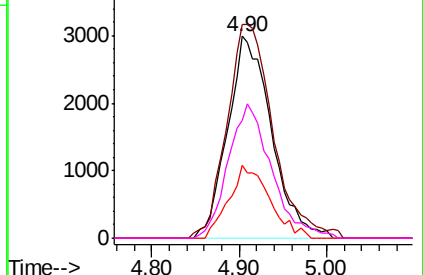
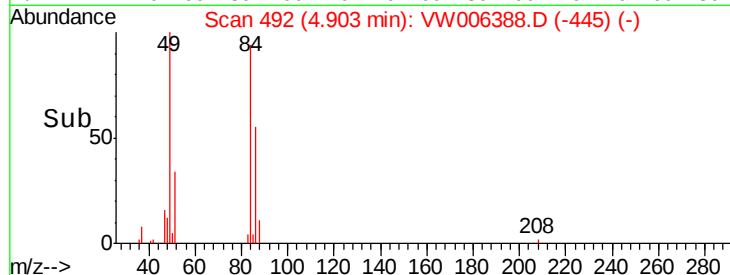
Abundance

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



#25

2-Butanone

Concen: 2.350 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.02 min

Lab File: VW006388.D

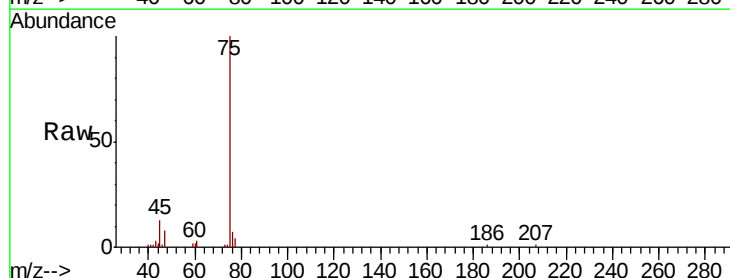
Acq: 26 Oct 2018 04:44

Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

43 100

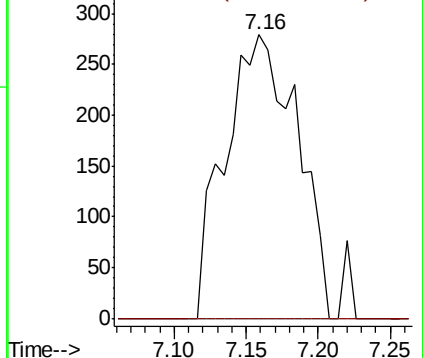
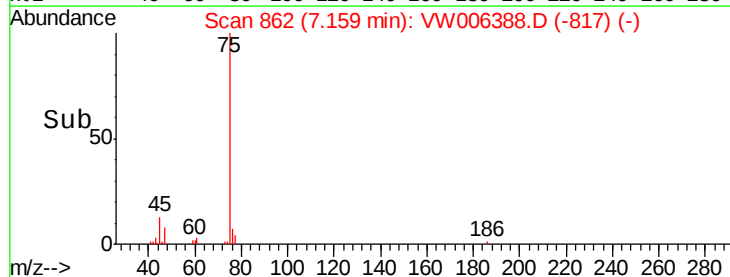
72 0.0 22.8 34.2#

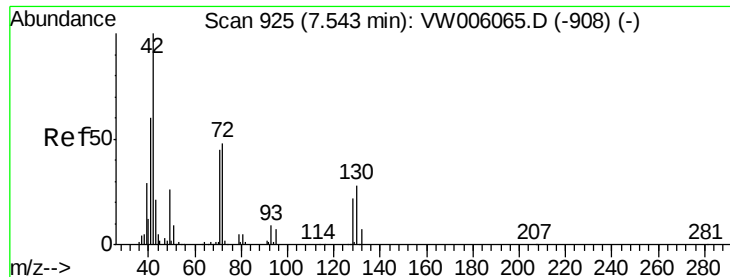


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

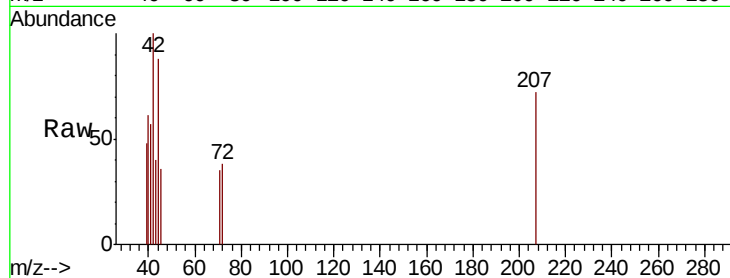




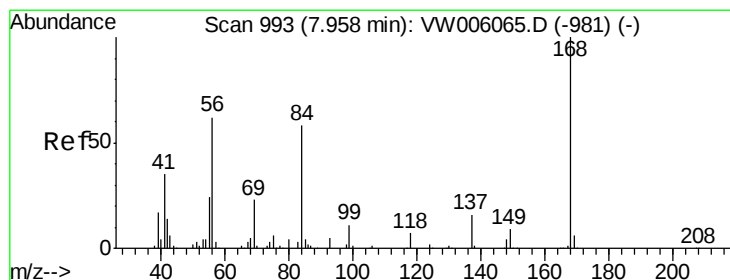
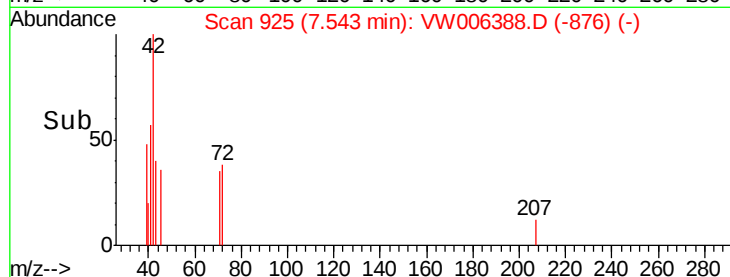
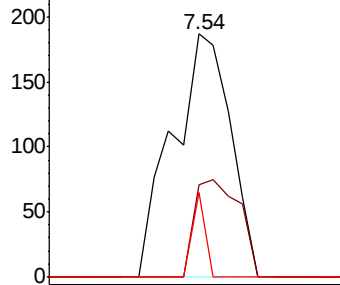
#29  
Tetrahydrofuran  
Concen: 1.205 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: VW006388.D  
Acq: 26 Oct 2018 04:44

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-5(0-2)RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 31.5  | 38.0  | 57.0# |
| 71      | 7.8   | 35.3  | 52.9# |

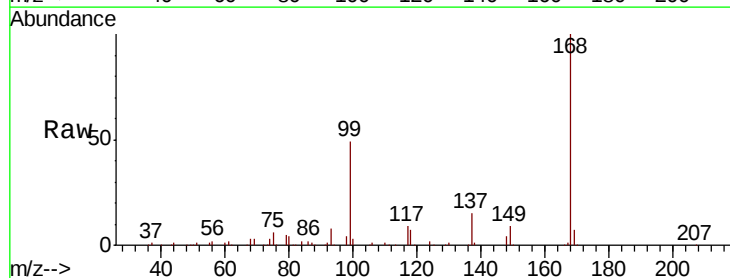


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

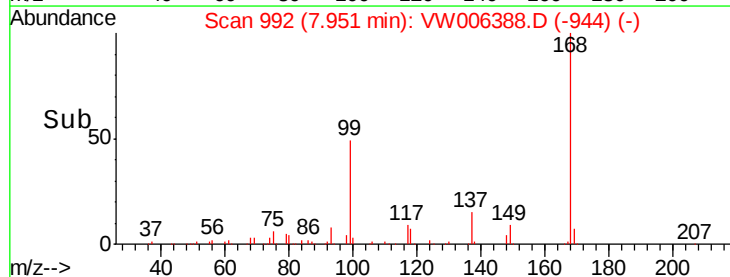
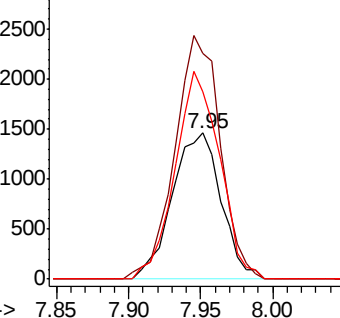


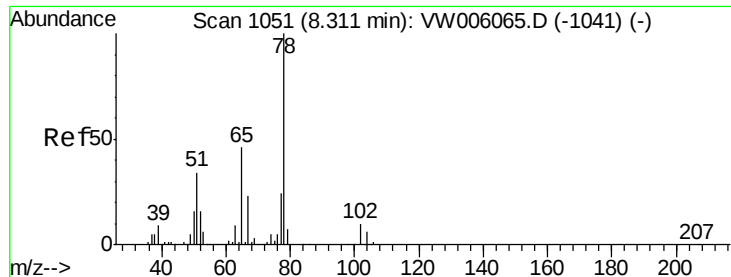
#31  
Cyclohexane  
Concen: 1.220 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW006388.D  
Acq: 26 Oct 2018 04:44

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 154.8 | 29.4  | 44.0#  |
| 84      | 128.4 | 74.0  | 111.0# |



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: 66.007 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampled :

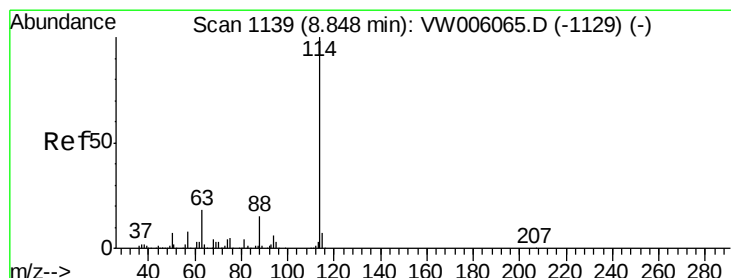
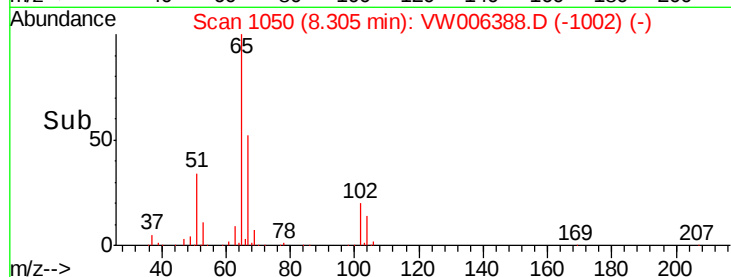
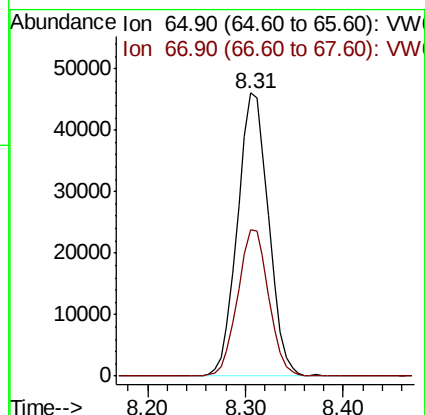
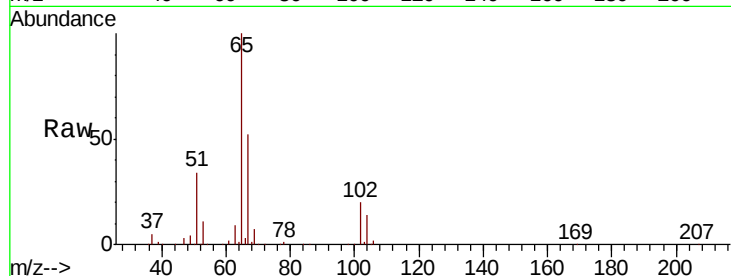
SB-5(0-2)RE

Tot Ion: 65 Resp: 101574

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

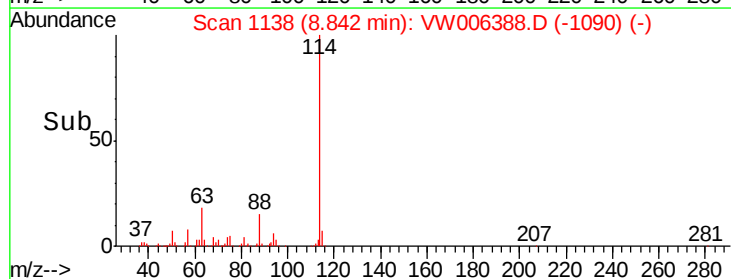
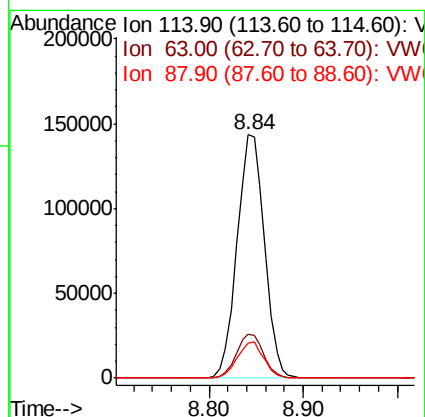
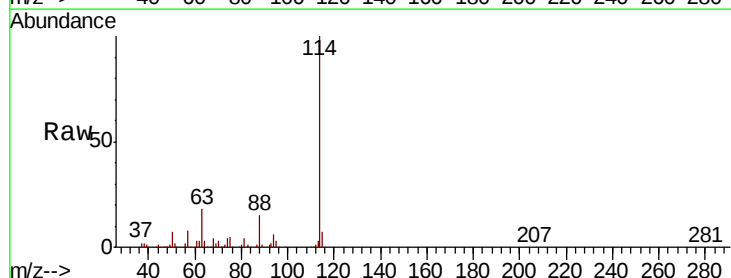
Tgt Ion: 114 Resp: 288752

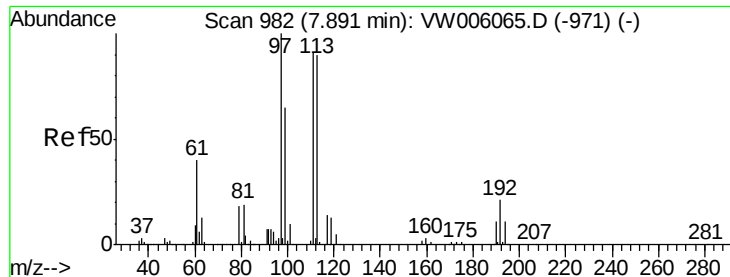
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.8

88 14.5 0.0 29.0





#35

Dibromofluoromethane

Concen: 41.216 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.01 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-5(0-2)RE

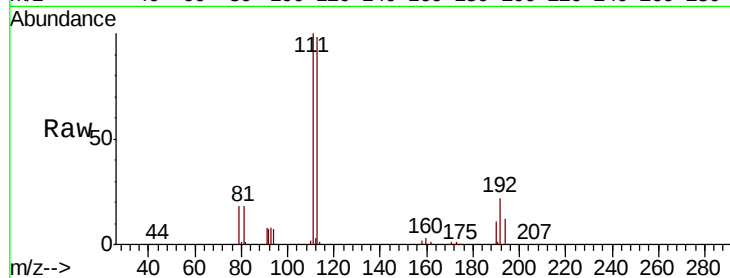
Tot Ion:113 Resp: 70323

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

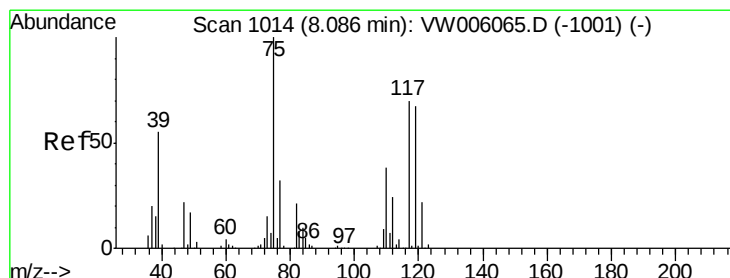
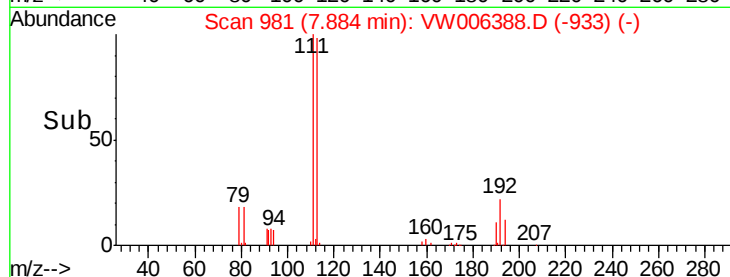
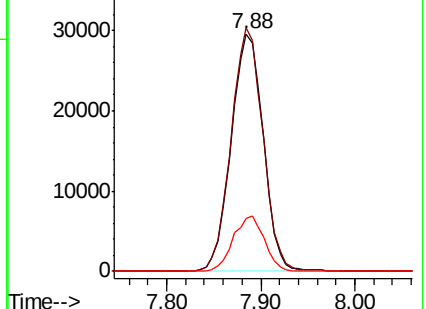
192 22.7 18.7 28.1



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: 4.535 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.14 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

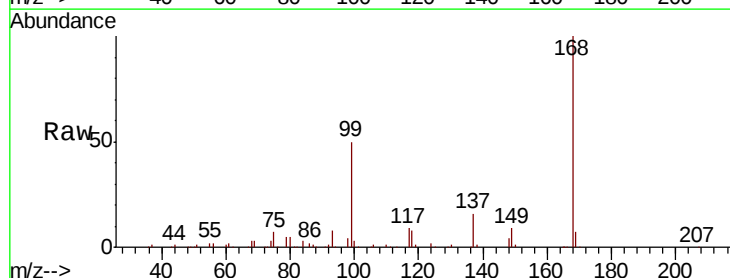
Tgt Ion: 75 Resp: 12069

Ion Ratio Lower Upper

75 100

110 10.5 19.1 57.1#

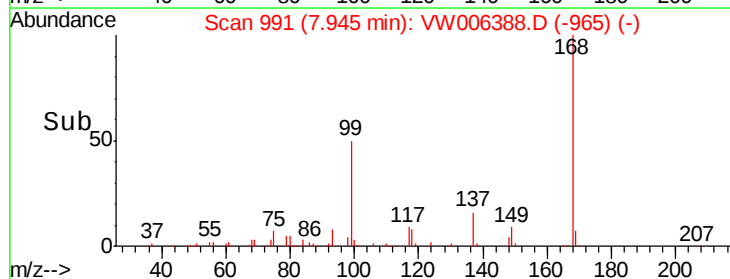
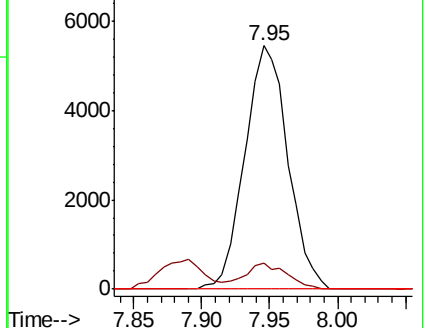
77 0.0 25.0 37.4#

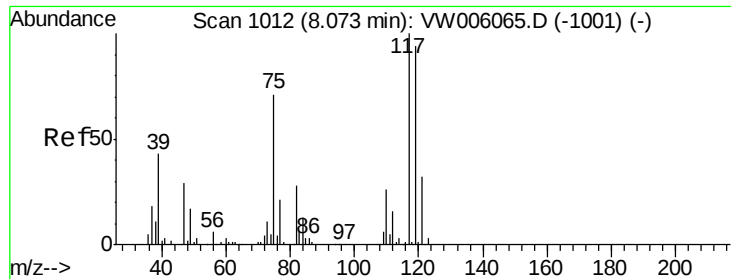


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 5.606 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampled :

SB-5(0-2)RE

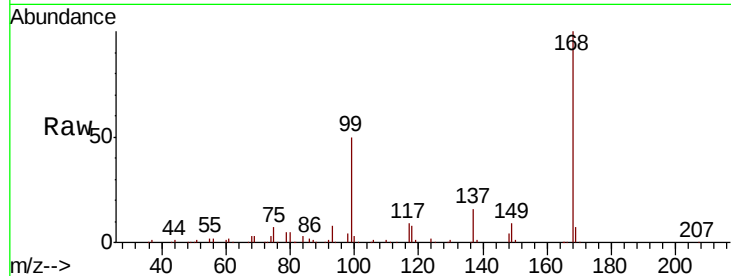
Tot Ion:117 Resp: 16357

Ion Ratio Lower Upper

117 100

119 5.8 75.2 112.8#

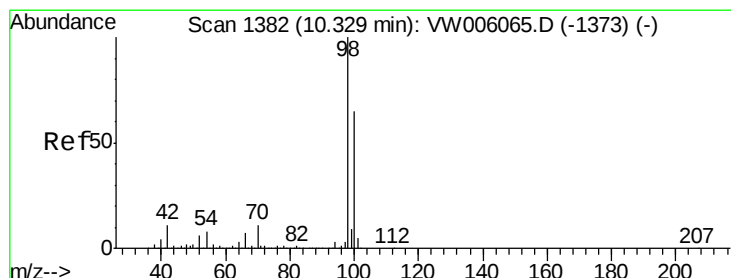
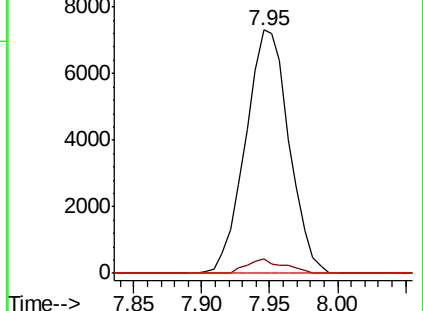
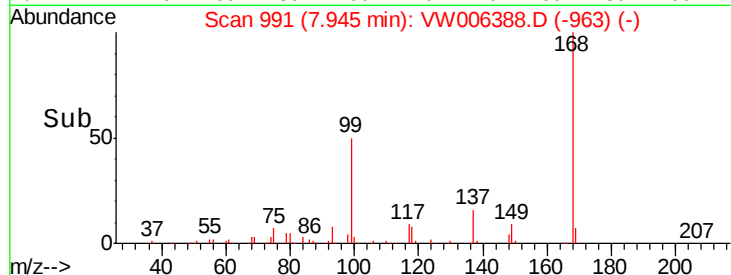
121 0.0 25.3 37.9#



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: 46.960 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VW006388.D

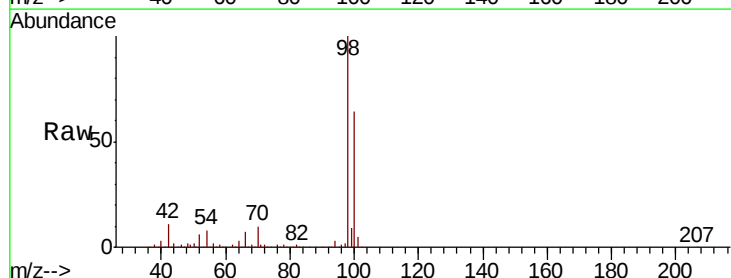
Acq: 26 Oct 2018 04:44

Tgt Ion: 98 Resp: 304835

Ion Ratio Lower Upper

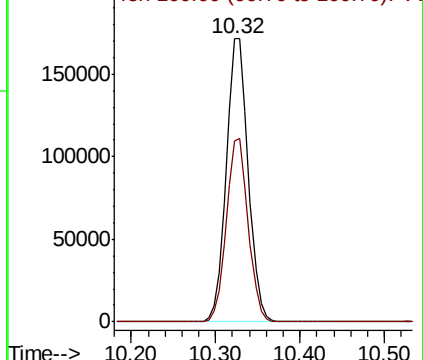
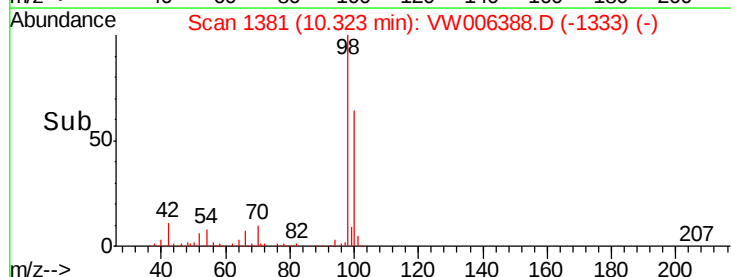
98 100

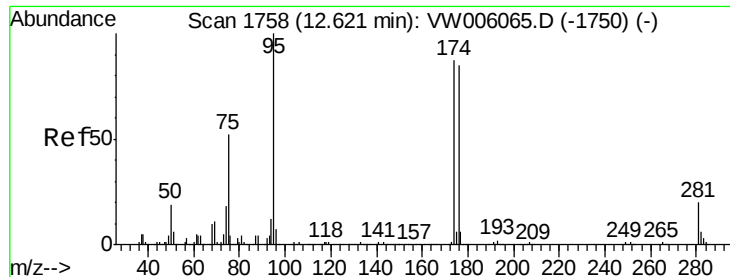
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

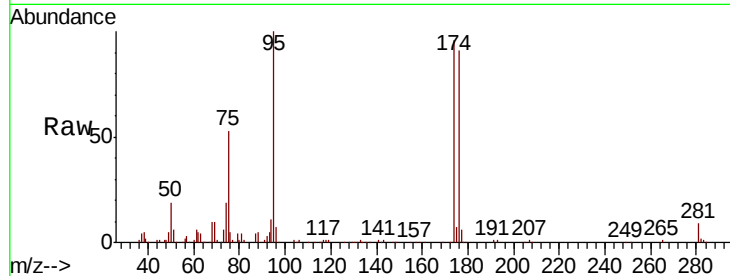




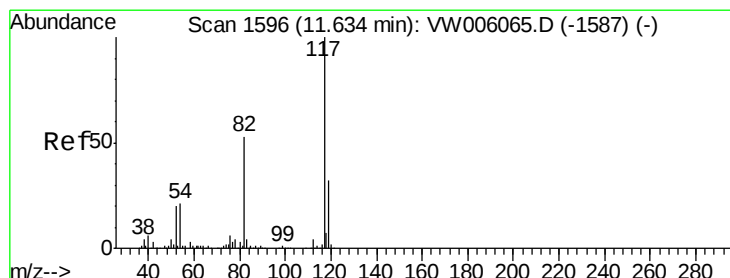
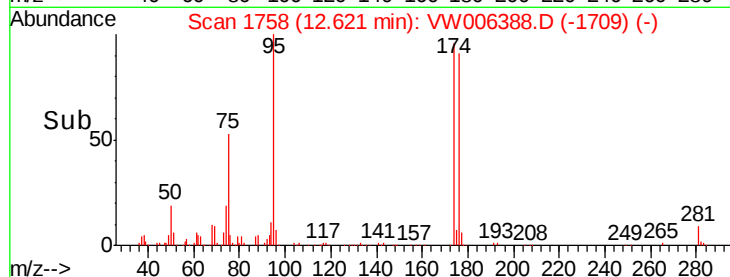
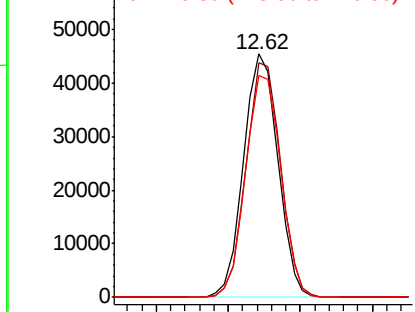
#62  
4-Bromofluorobenzene  
Concen: 30.851 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW006388.D  
Acq: 26 Oct 2018 04:44

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-5(0-2)RE

Tot Ion: 95 Resp: 75217  
Ion Ratio Lower Upper  
95 100  
174 96.6 0.0 186.0  
176 93.2 0.0 181.6

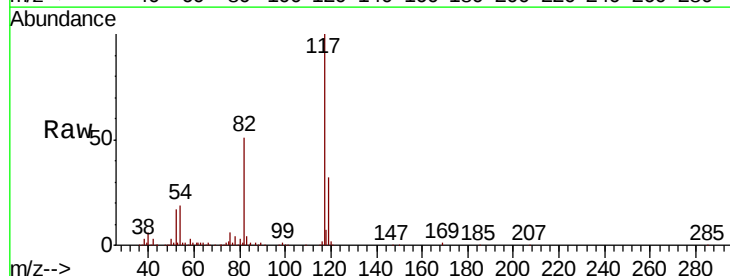


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW

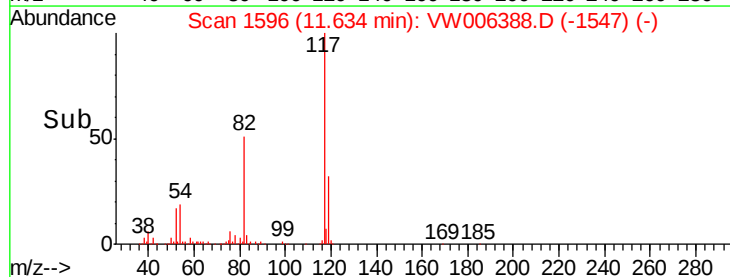
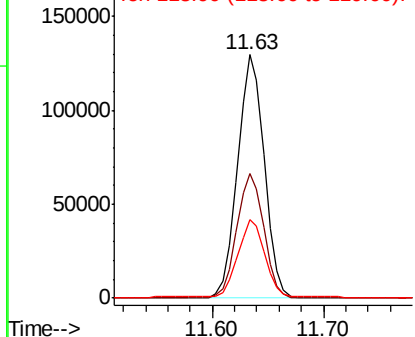


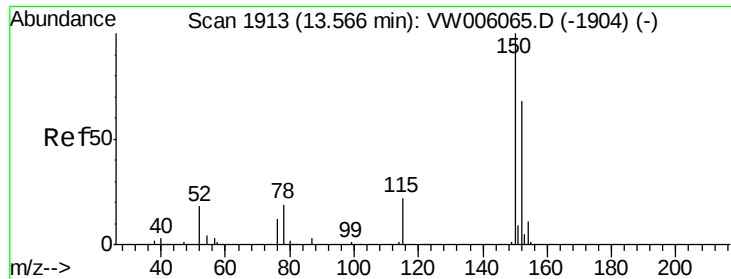
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW006388.D  
Acq: 26 Oct 2018 04:44

Tgt Ion: 117 Resp: 214300  
Ion Ratio Lower Upper  
117 100  
82 51.1 42.1 63.1  
119 31.7 25.8 38.6



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: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-5(0-2)RE

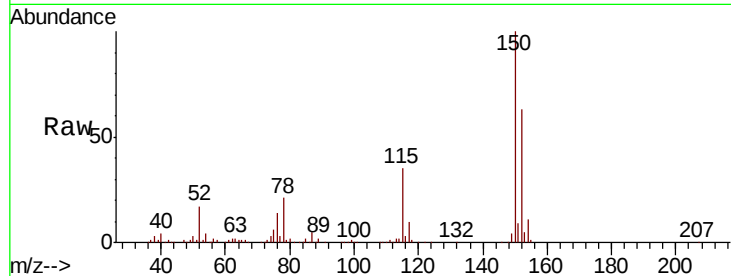
Tot Ion:152 Resp: 64311

Ion Ratio Lower Upper

152 100

115 54.3 27.8 83.3

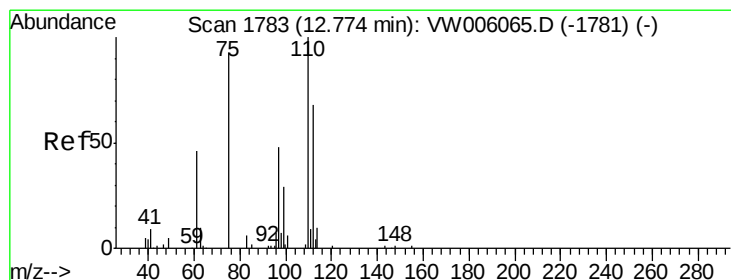
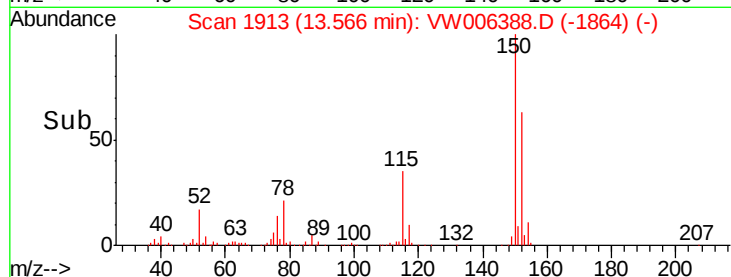
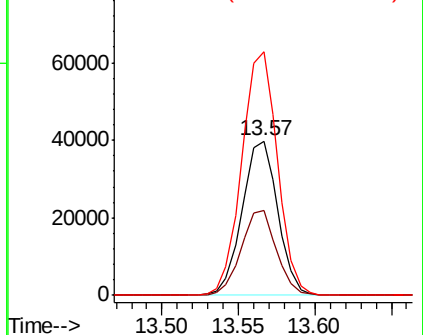
150 158.3 0.0 349.2



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: 76.770 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006388.D

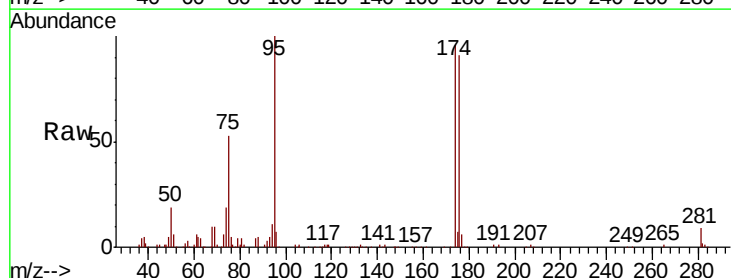
Acq: 26 Oct 2018 04:44

Tgt Ion: 75 Resp: 37710

Ion Ratio Lower Upper

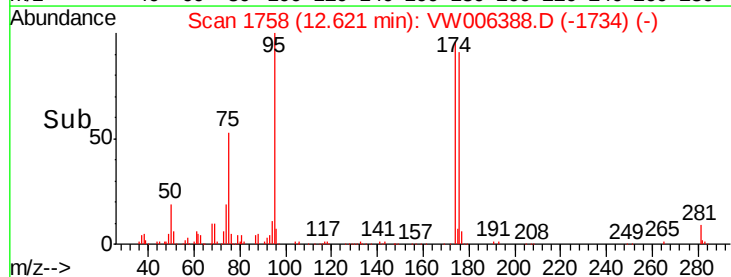
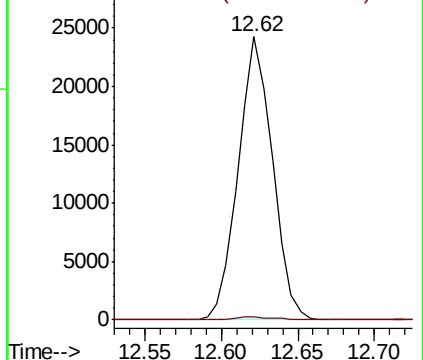
75 100

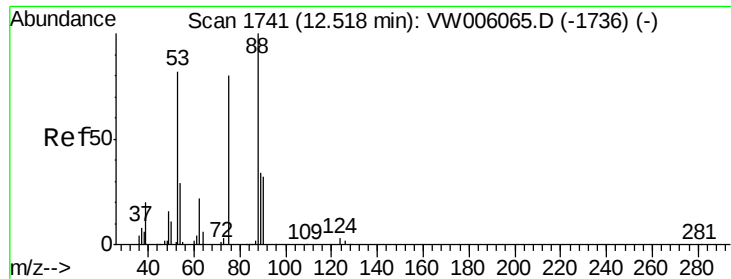
77 1.1 0.0 0.0#



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: 183.510 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006388.D

Acq: 26 Oct 2018 04:44

Instrument :

MSVOA\_W

ClientSampleId :

SB-5(0-2)RE

Tot Ion: 75 Resp: 37710

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 37.5 56.3#

