

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101018\  
 Data File : VW005992.D  
 Acq On : 10 Oct 2018 16:55  
 Operator : SY/AP  
 Sample : J5306-07RE  
 Misc : 5.36G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S-18-V

Quant Time: Oct 11 04:54:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 235044   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 355752   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 312018   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 151835   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 104583   | 45.83 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.66% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 103861   | 45.73 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.46% |      |
| 50) Toluene-d8              | 10.33  | 98  | 391301   | 44.78 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.56% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 136050   | 40.92 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 81.84% |      |

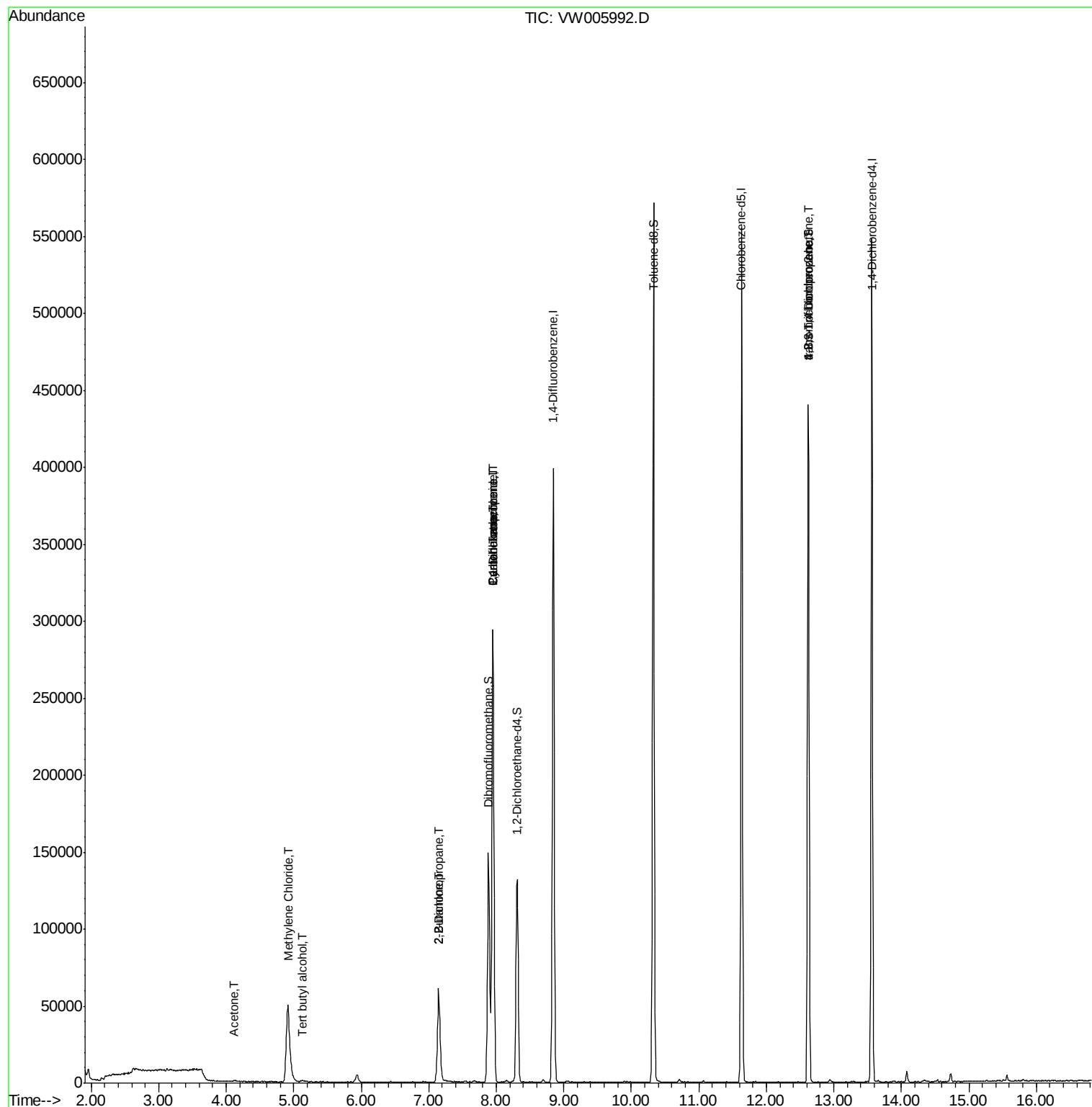
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.13  | 59   | 923      | 5.520   | ug/l # | 74     |
| 16) Acetone                    | 4.12  | 43   | 1910     | 4.191   | ug/l   | 96     |
| 20) Methylene Chloride         | 4.92  | 84   | 46825    | 20.506  | ug/l   | 95     |
| 25) 2-Butanone                 | 7.15  | 43   | 3298     | 5.088   | ug/l # | 71     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 4097     | 1.442   | ug/l # | 52     |
| 31) Cyclohexane                | 7.96  | 56   | 4513     | 1.130   | ug/l # | 27     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16294    | 4.780   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 21117    | 5.766   | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 68498    | 50.503  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 68498    | 106.618 | ug/l # | 11     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW101018\  
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Operator : SY/AP  
Sample : J5306-07RE  
Misc : 5.36G/5ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
S-18-V

Quant Time: Oct 11 04:54:03 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 09 02:14:04 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: VW005992.D

Acq: 10 Oct 2018 16:55

Instrument :

MSVOA\_W

ClientSampleId :

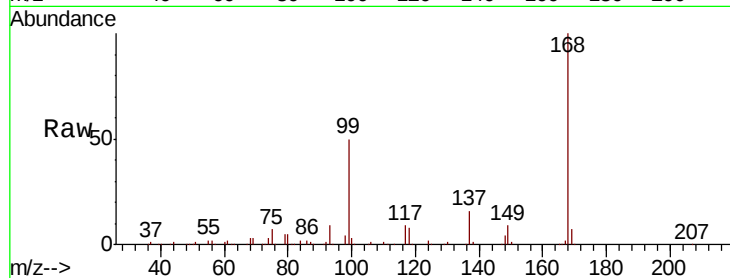
S-18-V

Tot Ion:168 Resp: 235044

Ion Ratio Lower Upper

168 100

99 50.4 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

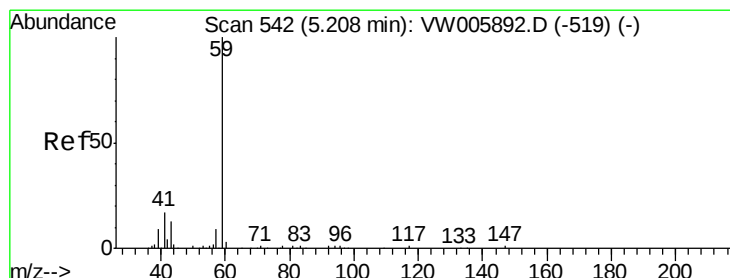
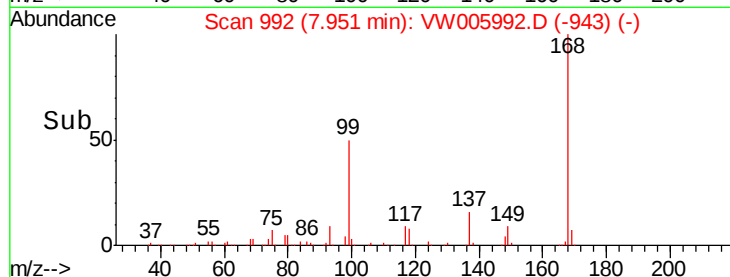
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 5.520 ug/l

RT: 5.13 min Scan# 530

Delta R.T. -0.07 min

Lab File: VW005992.D

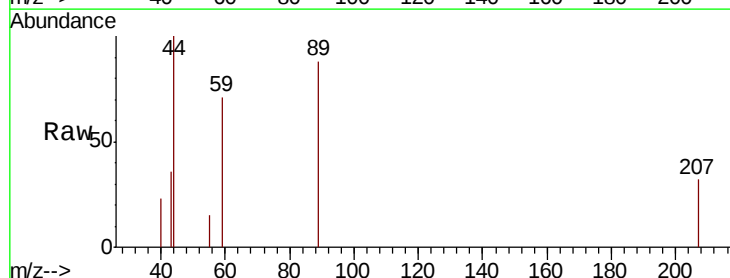
Acq: 10 Oct 2018 16:55

Tgt Ion: 59 Resp: 923

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.13

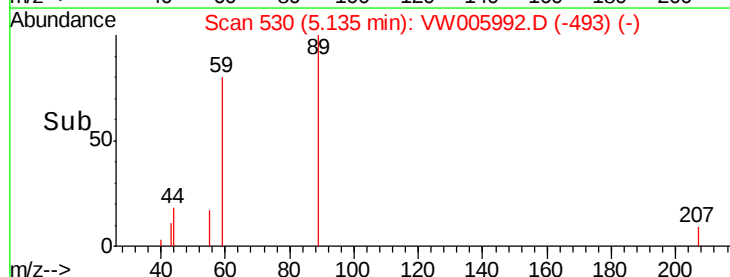
300

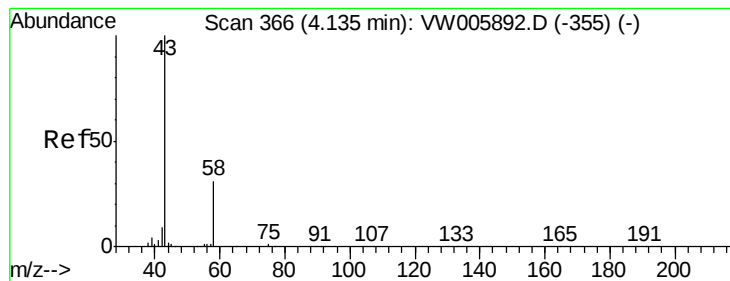
200

100

0

Time--> 5.10 5.15 5.20





#16

Acetone

Concen: 4.191 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

Instrument :

MSVOA\_W

ClientSampleId :

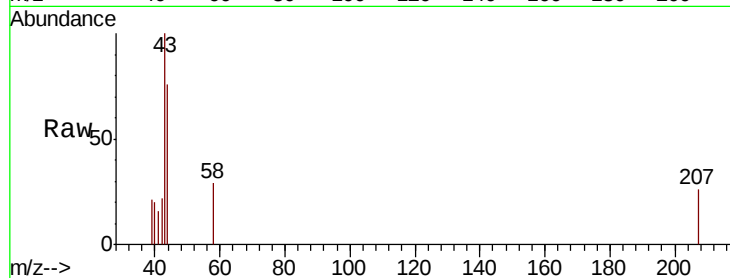
S-18-V

Tot Ion: 43 Resp: 1910

Ion Ratio Lower Upper

43 100

58 28.7 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

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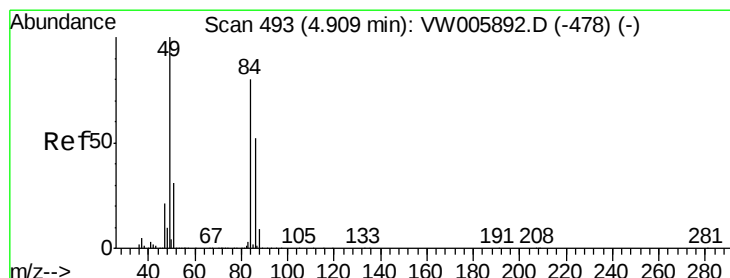
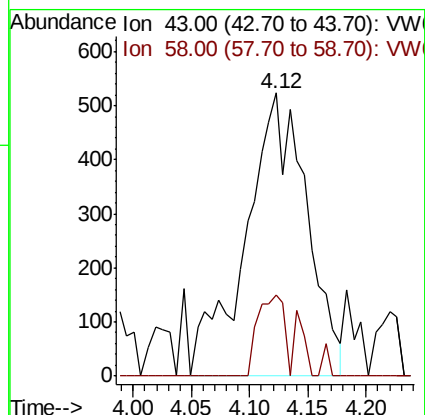
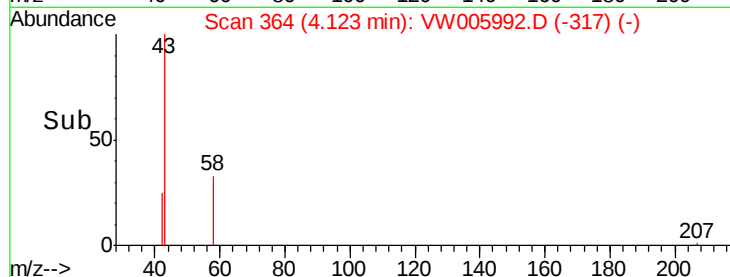
4.12

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4.12

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4.12



#20

Methylene Chloride

Concen: 20.506 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

Tgt Ion: 84 Resp: 46825

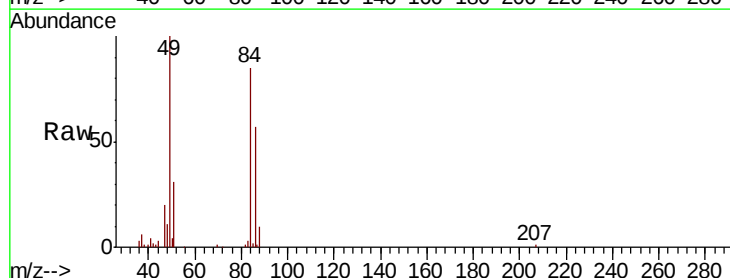
Ion Ratio Lower Upper

84 100

49 117.1 99.9 149.9

51 36.6 31.1 46.7

86 66.2 51.8 77.6



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

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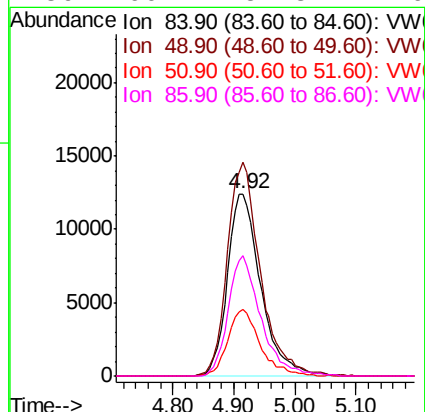
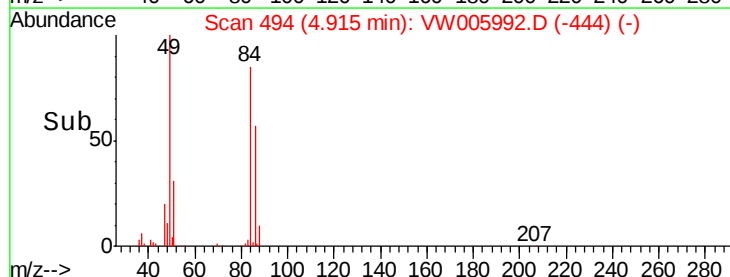
4.92

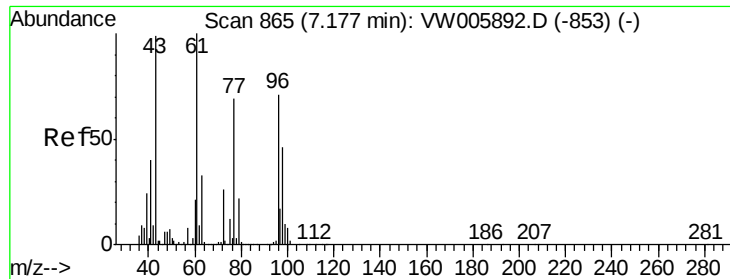
4.92

4.92

4.92

4.92





#25

2-Butanone

Concen: 5.088 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

Instrument :

MSVOA\_W

ClientSampled :

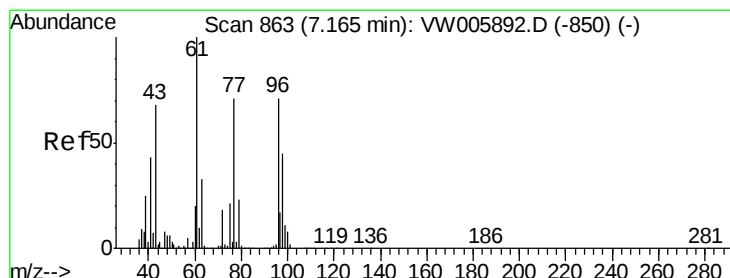
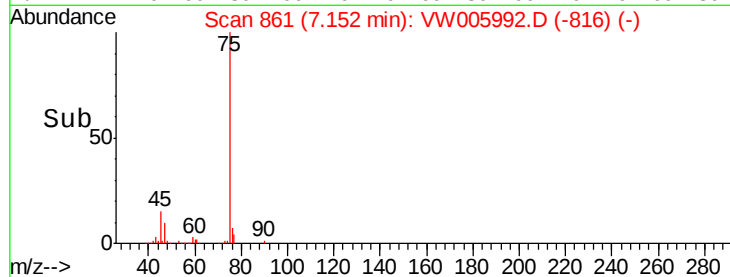
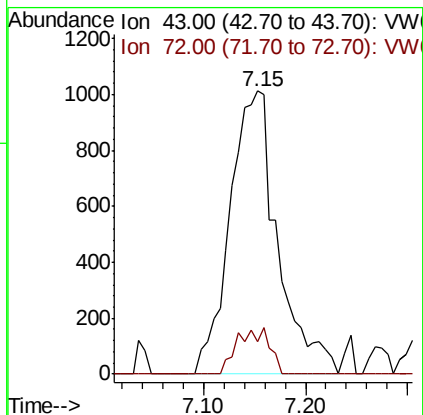
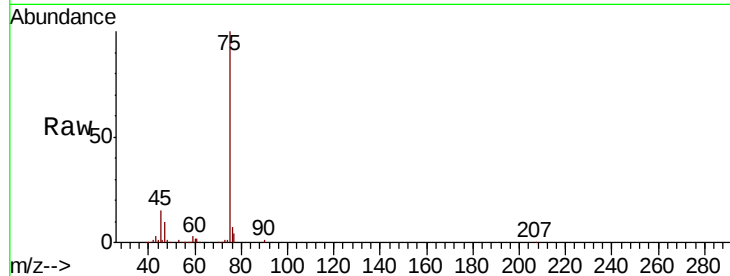
S-18-V

Tot Ion: 43 Resp: 3298

Ion Ratio Lower Upper

43 100

72 11.6 21.0 31.4#



#26

2,2-Dichloropropane

Concen: 1.442 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW005992.D

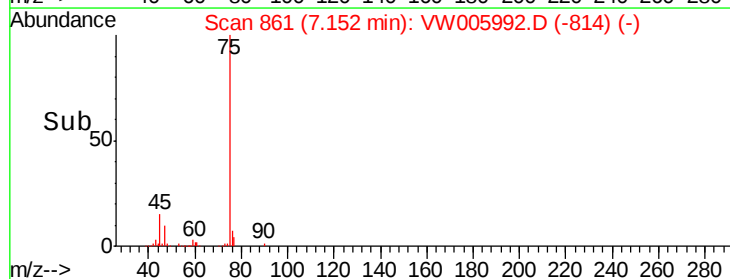
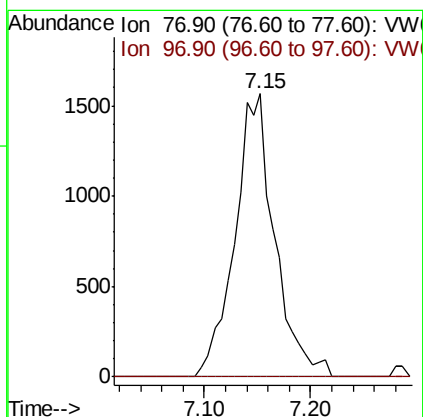
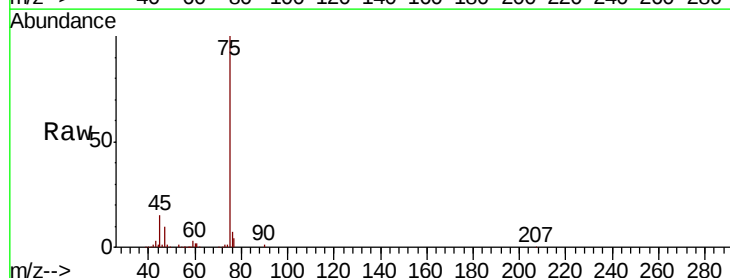
Acq: 10 Oct 2018 16:55

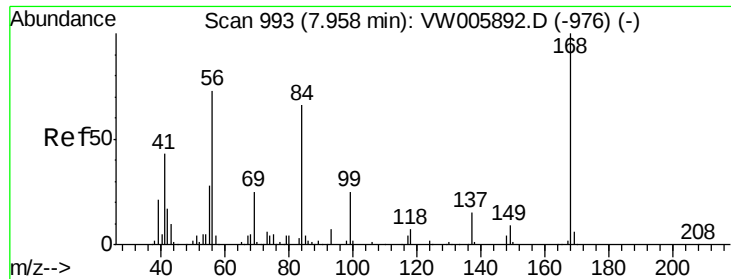
Tgt Ion: 77 Resp: 4097

Ion Ratio Lower Upper

77 100

97 0.0 11.9 35.7#

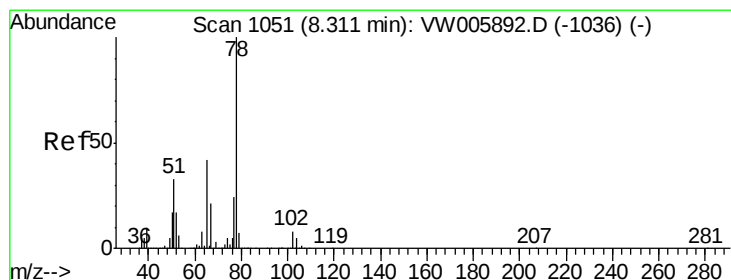
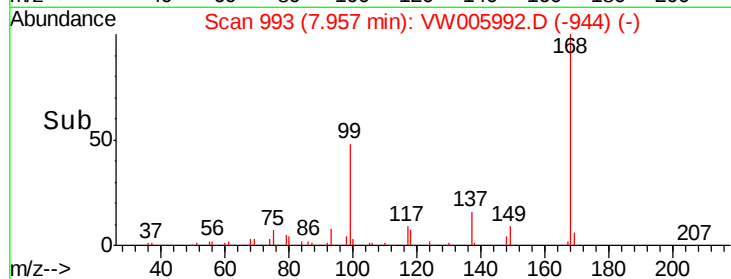
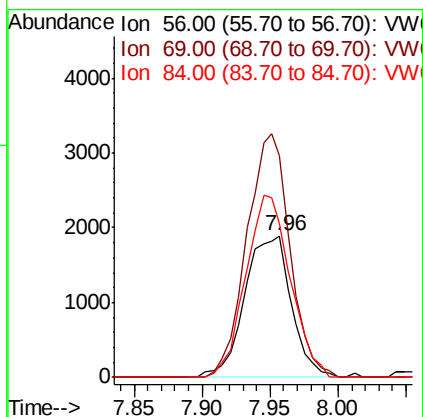
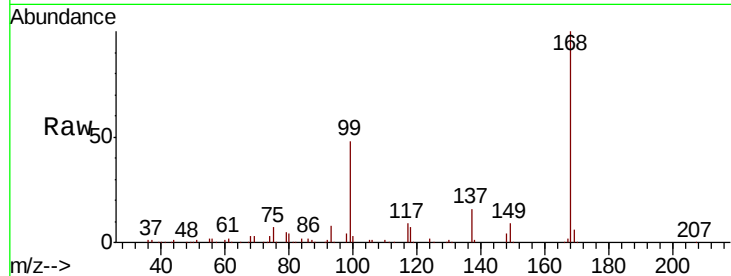




#31  
Cyclohexane  
Concen: 1.130 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: VW005992.D  
Acq: 10 Oct 2018 16:55

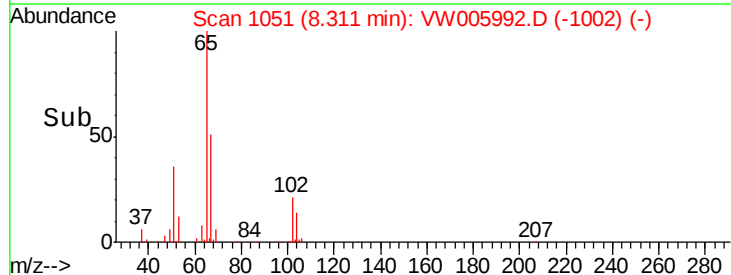
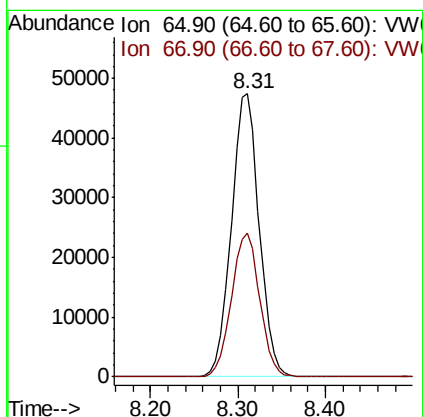
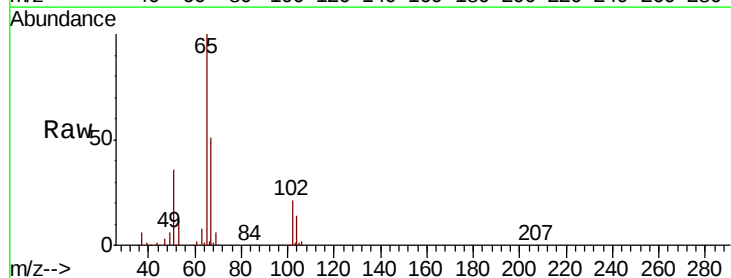
Instrument :  
MSVOA\_W  
ClientSampleId :  
S-18-V

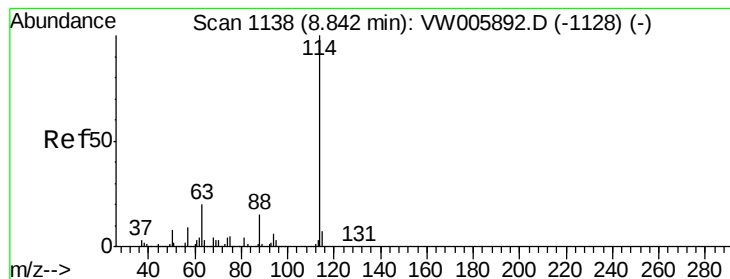
Tot Ion: 56 Resp: 4513  
Ion Ratio Lower Upper  
56 100  
69 156.8 27.9 41.9#  
84 108.8 72.3 108.5#



#33  
1,2-Dichloroethane-d4  
Concen: 45.835 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: VW005992.D  
Acq: 10 Oct 2018 16:55

Tgt Ion: 65 Resp: 104583  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

Instrument :

MSVOA\_W

ClientSampleId :

S-18-V

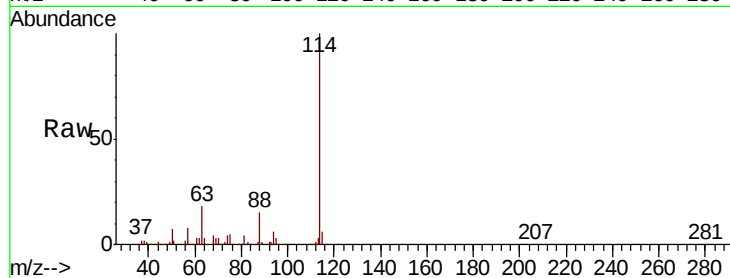
Tot Ion:114 Resp: 355752

Ion Ratio Lower Upper

114 100

63 17.7 0.0 39.2

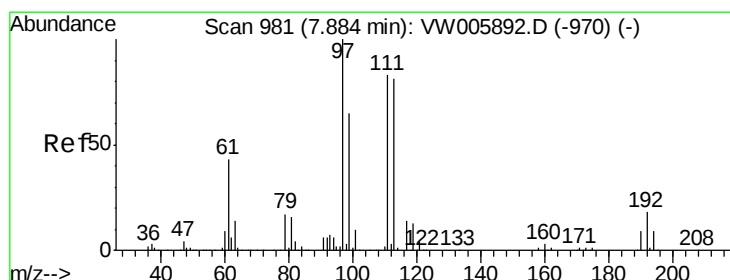
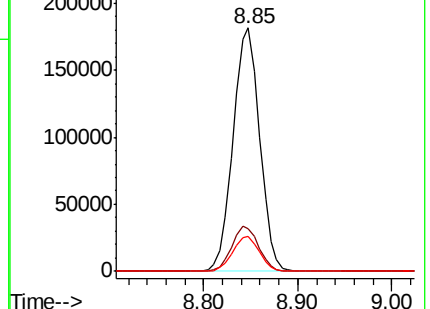
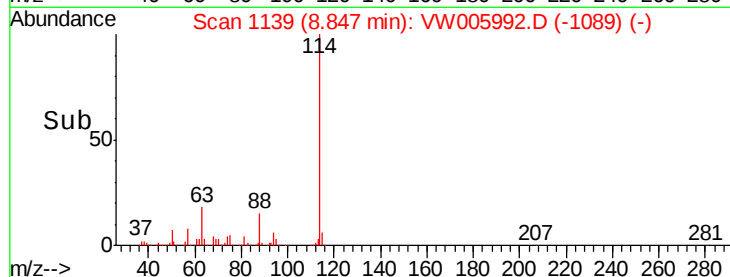
88 14.6 0.0 30.8



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: 45.727 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

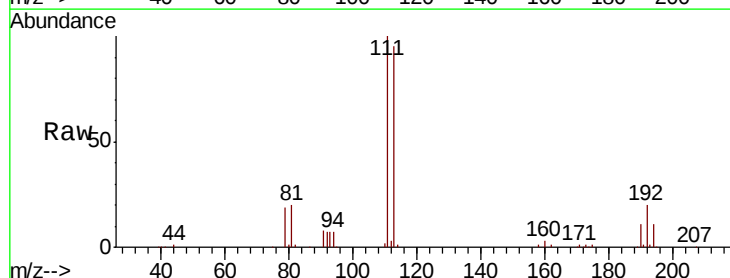
Tgt Ion:113 Resp: 103861

Ion Ratio Lower Upper

113 100

111 103.2 82.0 123.0

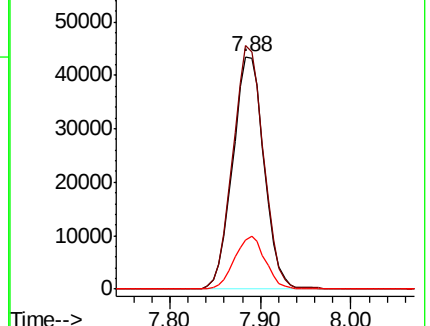
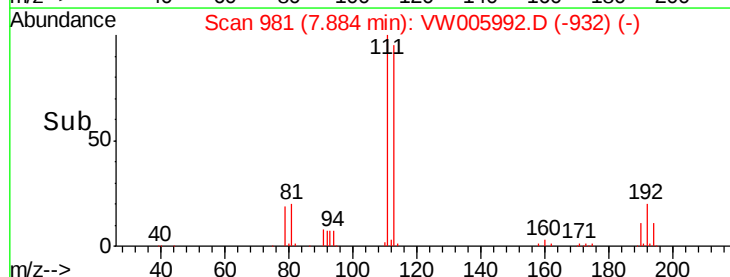
192 22.2 18.3 27.5

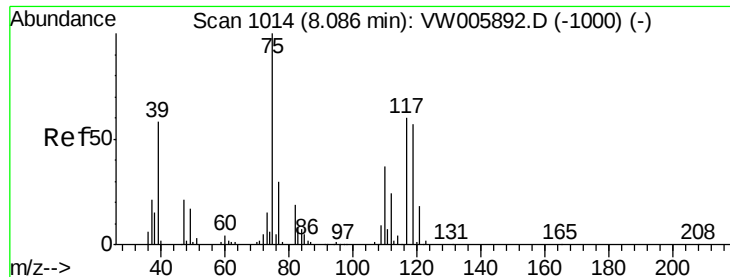


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

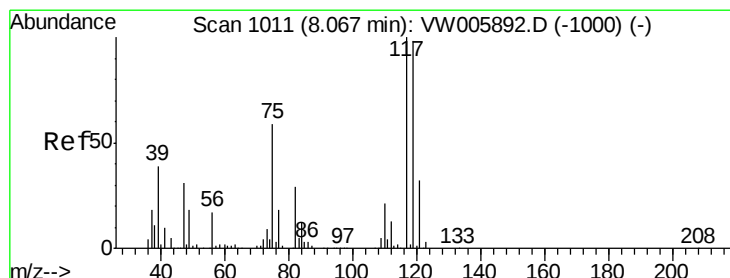
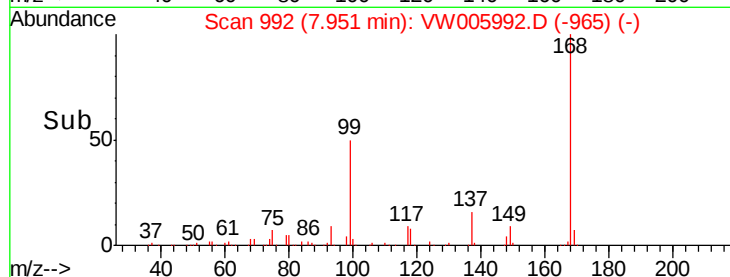
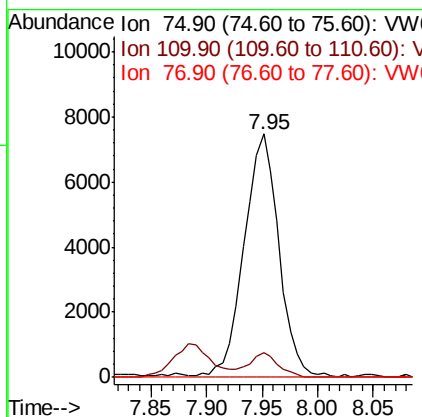
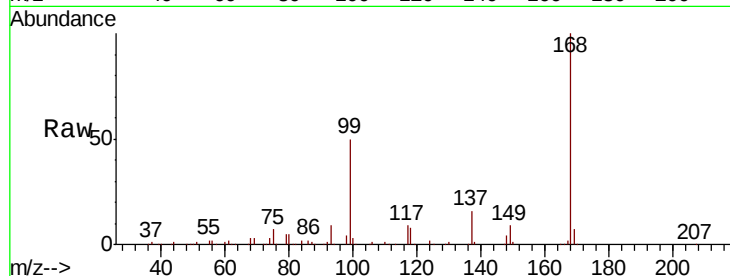




#36  
 1,1-Dichloropropene  
 Concen: 4.780 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW005992.D  
 Acq: 10 Oct 2018 16:55

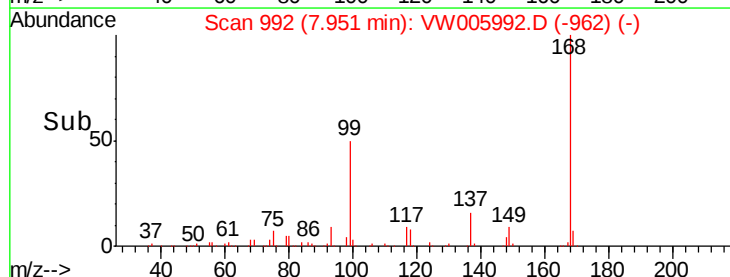
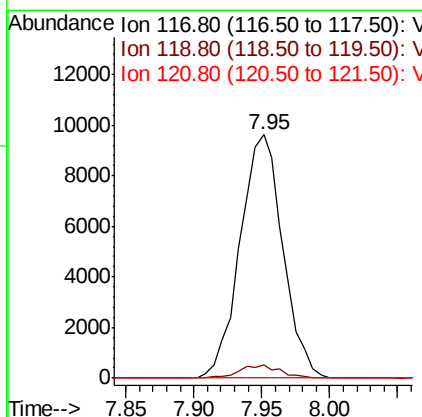
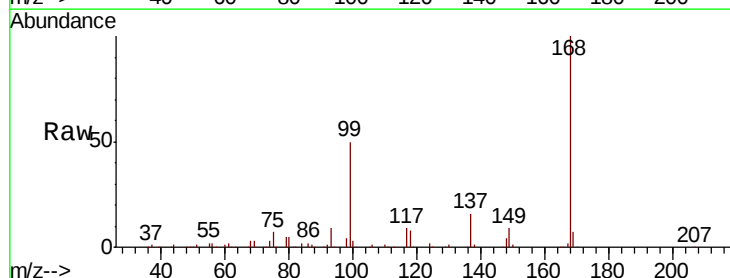
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 S-18-V

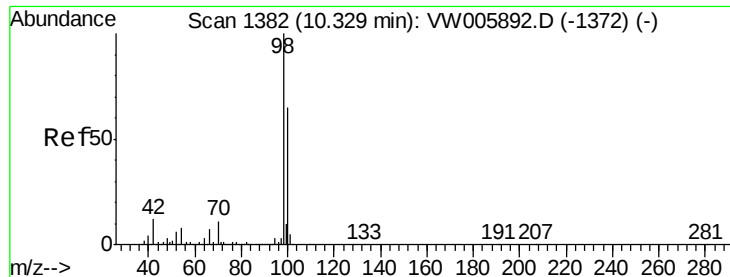
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 18.6  | 56.0# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 5.766 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.12 min  
 Lab File: VW005992.D  
 Acq: 10 Oct 2018 16:55

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.3   | 78.6  | 117.8# |
| 121     | 0.0   | 25.3  | 37.9#  |





#50

Toluene-d8

Concen: 44.778 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

Instrument :

MSVOA\_W

ClientSampleId :

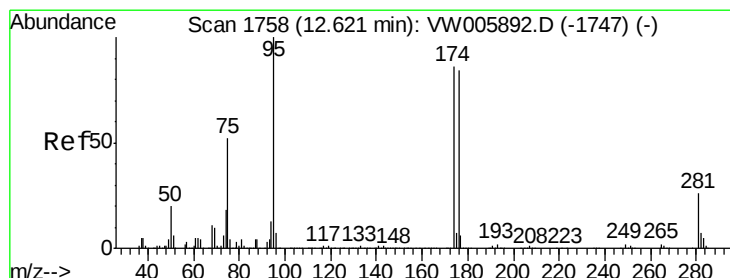
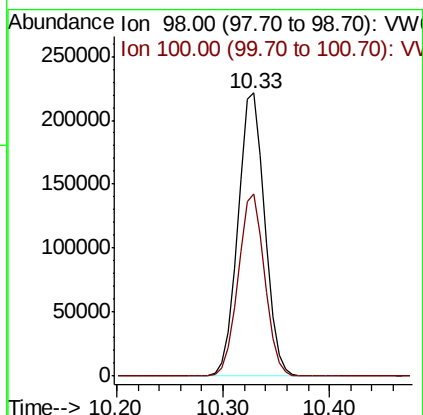
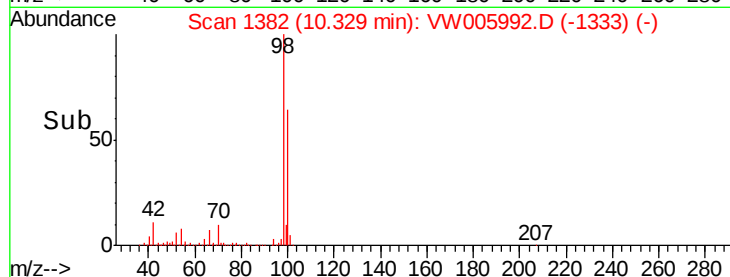
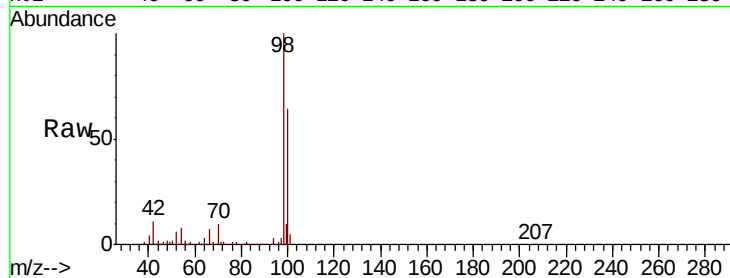
S-18-V

Tot Ion: 98 Resp: 391301

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 40.920 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005992.D

Acq: 10 Oct 2018 16:55

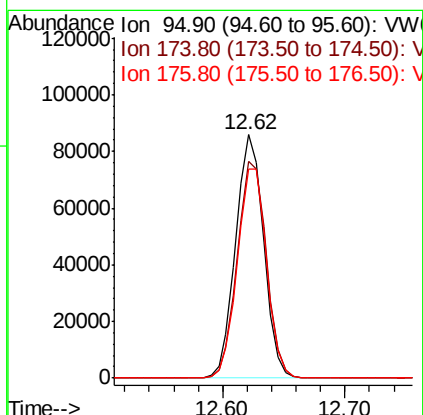
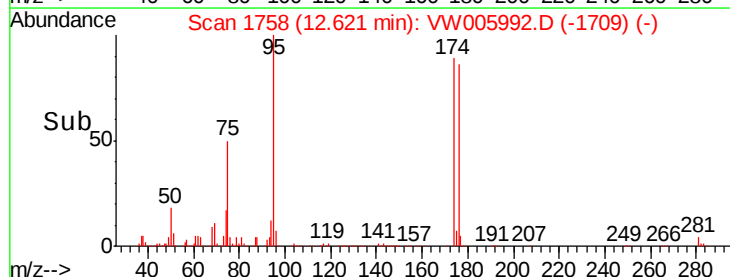
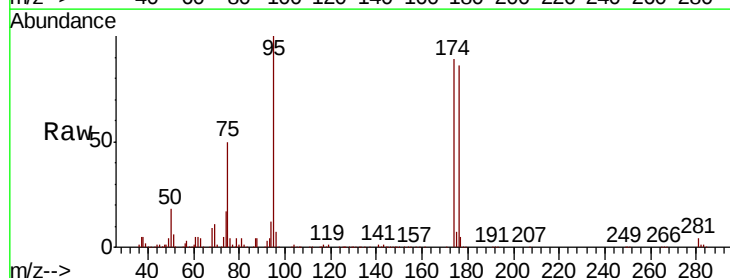
Tgt Ion: 95 Resp: 136050

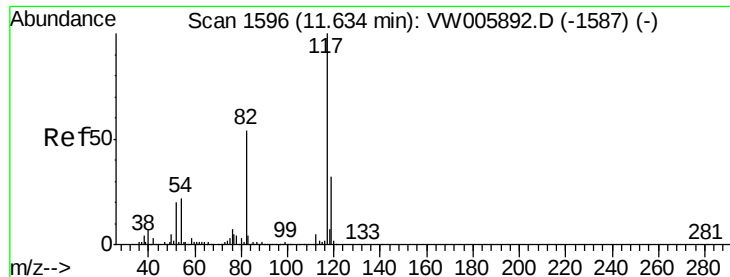
Ion Ratio Lower Upper

95 100

174 92.3 0.0 176.4

176 89.7 0.0 173.0

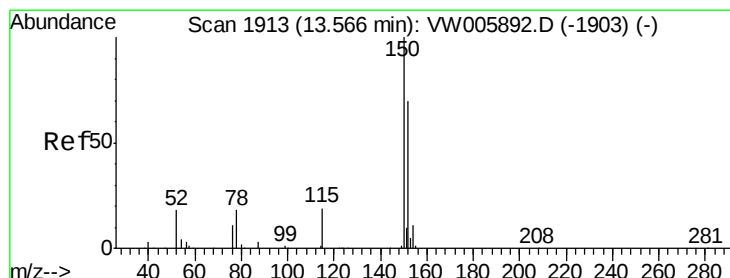
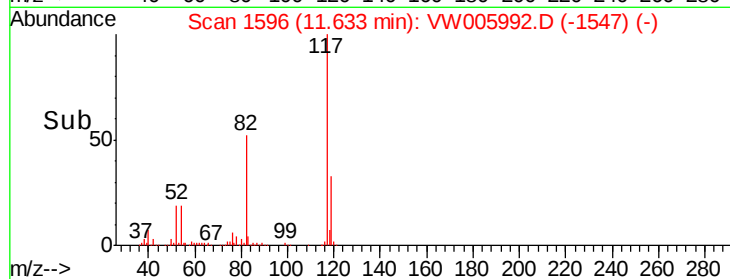
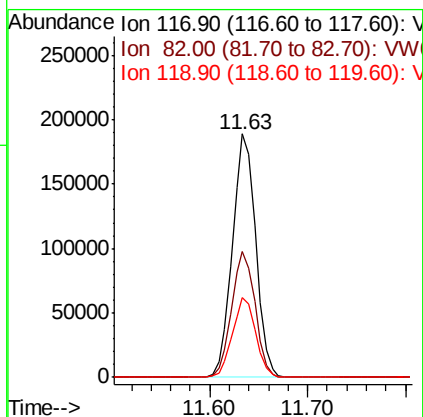
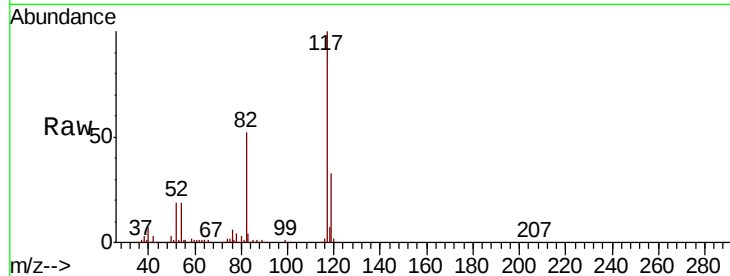




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW005992.D  
Acq: 10 Oct 2018 16:55

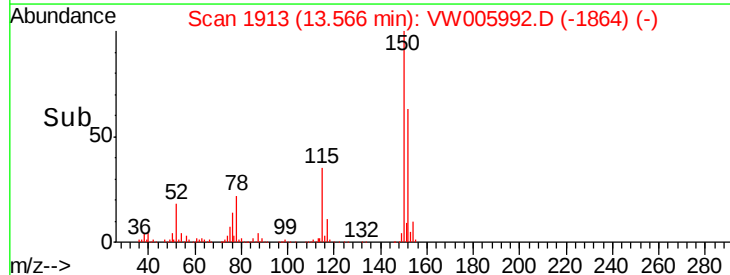
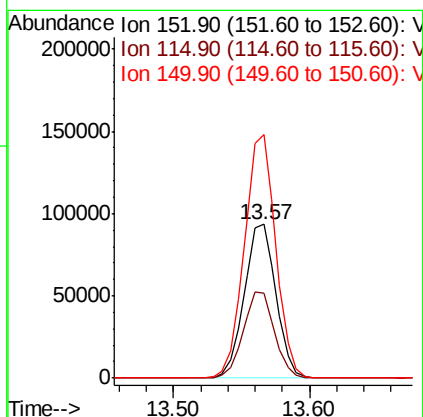
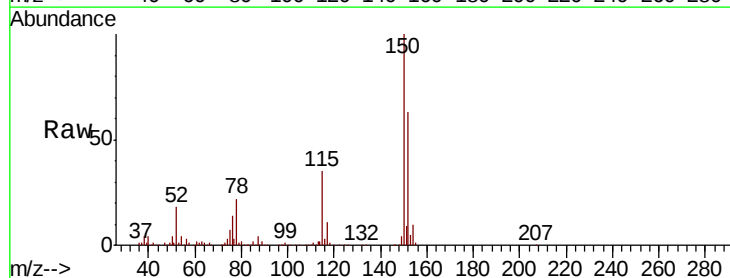
Instrument :  
MSVOA\_W  
ClientSampleId :  
S-18-V

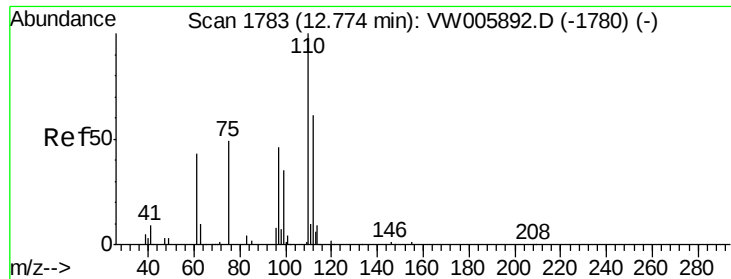
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.0  | 43.5  | 65.3  |
| 119     | 32.6  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. -0.00 min  
Lab File: VW005992.D  
Acq: 10 Oct 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.3  | 28.3  | 85.0  |
| 150     | 157.0 | 0.0   | 349.2 |

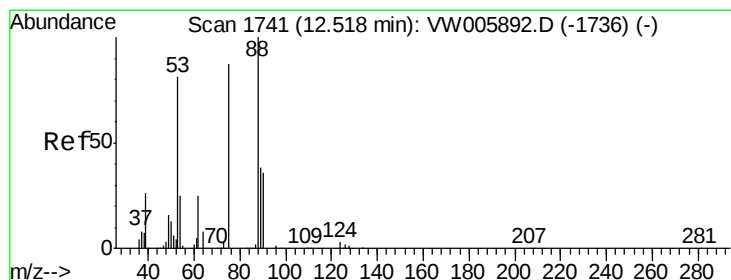
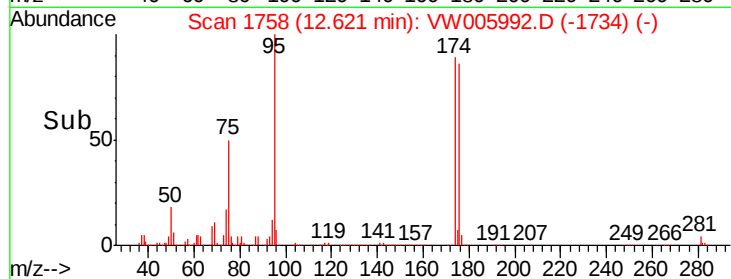
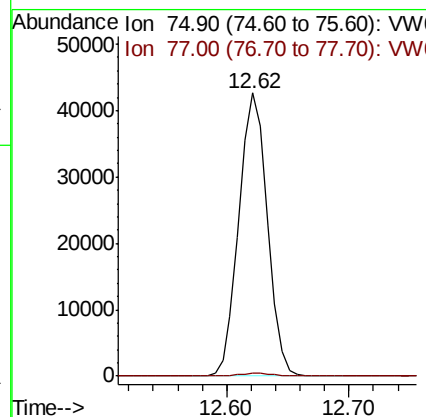
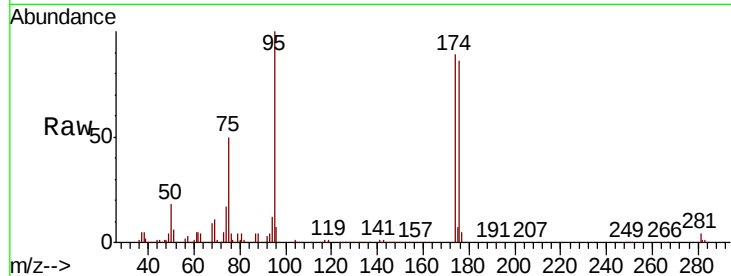




#76  
 1,2,3-Trichloropropane  
 Concen: 50.503 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. -0.15 min  
 Lab File: VW005992.D  
 Acq: 10 Oct 2018 16:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 S-18-V

Tot Ion: 75 Resp: 68498  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 106.618 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.10 min  
 Lab File: VW005992.D  
 Acq: 10 Oct 2018 16:55

Tgt Ion: 75 Resp: 68498  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.5 114.7#  
 89 0.0 37.6 56.4#

