

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091218\  
 Data File : VW005322.D  
 Acq On : 12 Sep 2018 13:49  
 Operator : SY/AP  
 Sample : J4777-09RE  
 Misc : 5.31G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 12 14:31:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 03:48:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.96  | 168  | 445821   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 699611   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 560679   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 176261   | 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   | 176356   | 53.04  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.08% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 160135   | 43.70  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 87.40%  |          |
| 50) Toluene-d8              | 10.33 | 98   | 646127   | 34.89  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 69.78%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 168476   | 24.87  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 49.74%  |          |

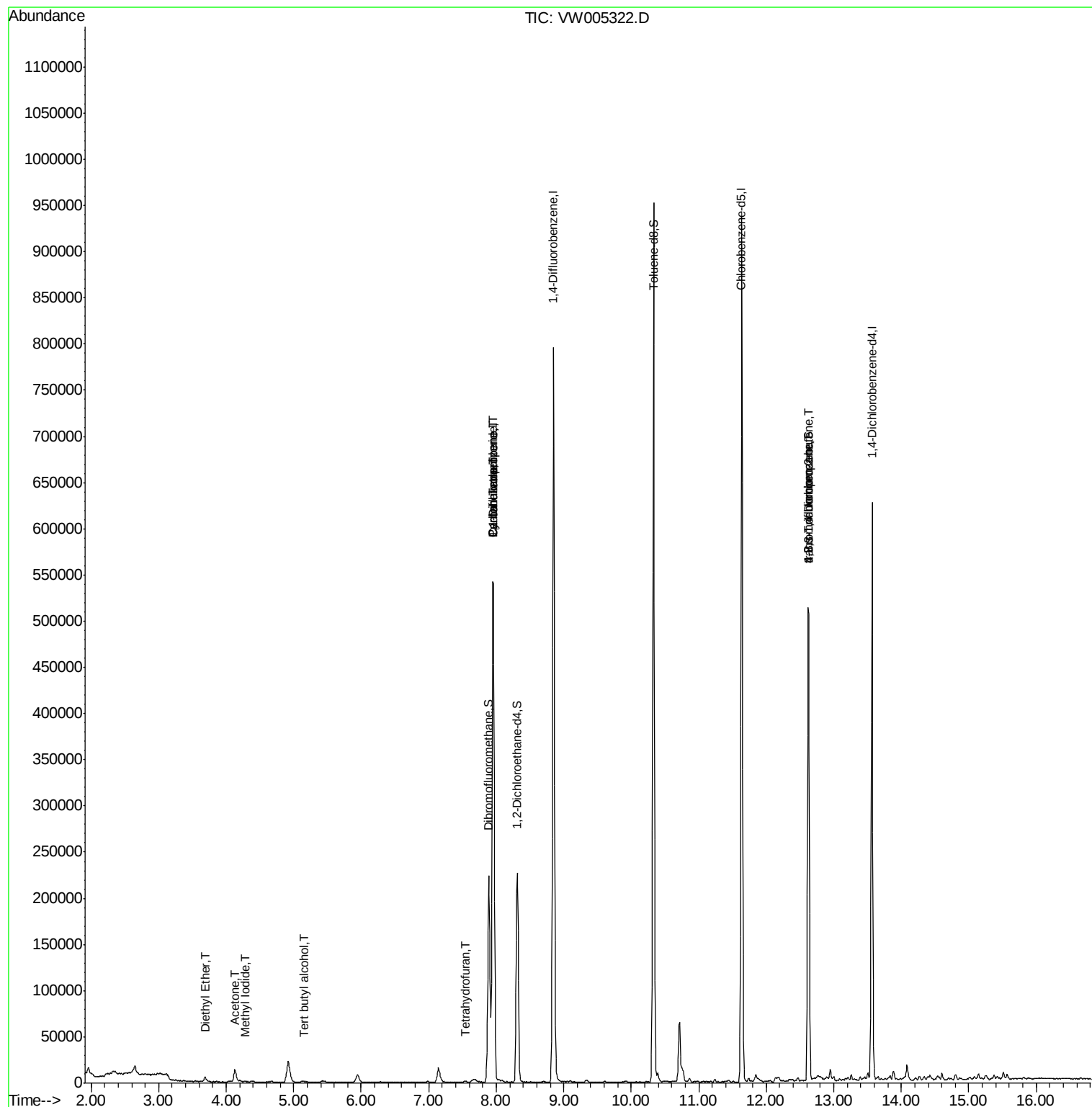
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.78  | 94   | 1201     | Below Cal | #      | 70     |
| 8) Diethyl Ether               | 3.69  | 74   | 2475     | 1.301     | ug/l   | 93     |
| 10) Methyl Iodide              | 4.28  | 142  | 760      | 3.476     | ug/l # | 86     |
| 11) Tert butyl alcohol         | 5.16  | 59   | 378      | 1.386     | ug/l # | 73     |
| 16) Acetone                    | 4.13  | 43   | 23217    | 37.616    | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 957      | 1.459     | ug/l # | 61     |
| 31) Cyclohexane                | 7.95  | 56   | 8266     | 1.162     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.96  | 75   | 30570    | 4.769     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.96  | 117  | 39680    | 6.609     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 78925    | 58.217    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 78925    | 136.531   | ug/l # | 16     |

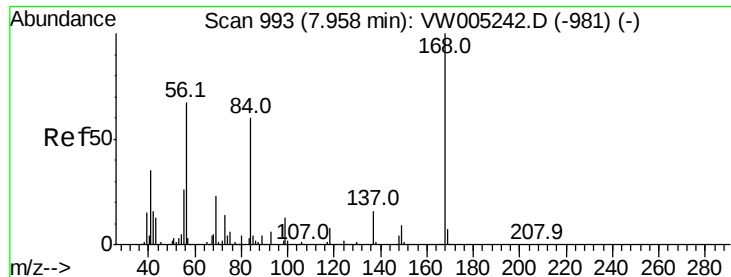
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091218\  
Data File : VW005322.D  
Acq On : 12 Sep 2018 13:49  
Operator : SY/AP  
Sample : J4777-09RE  
Misc : 5.31G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Sep 12 14:31:08 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 03:48:23 2018  
Response via : Initial Calibration



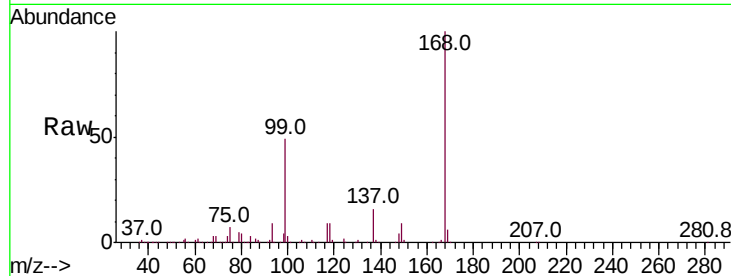


#1

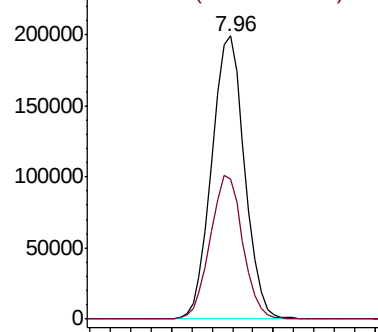
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. 0.00 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

Instrument :  
 MSVOA\_W  
 ClientSampled :

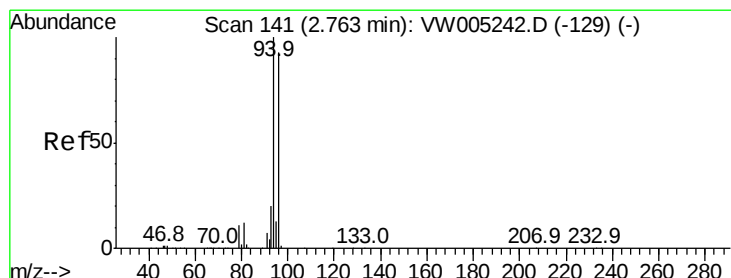
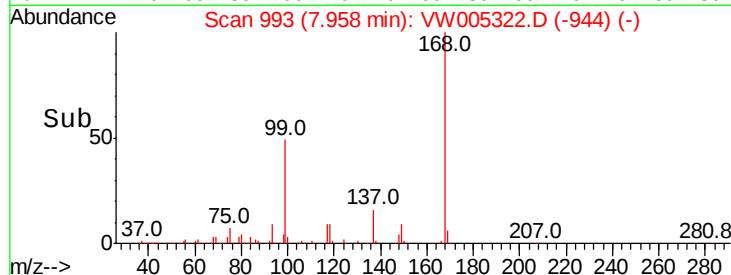
Tot Ion:168 Resp: 445821  
 Ion Ratio Lower Upper  
 168 100  
 99 49.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VW



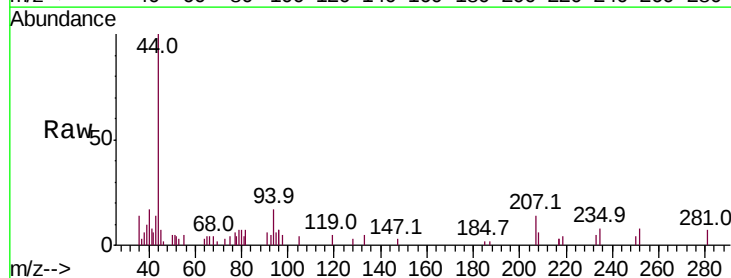
Time-->



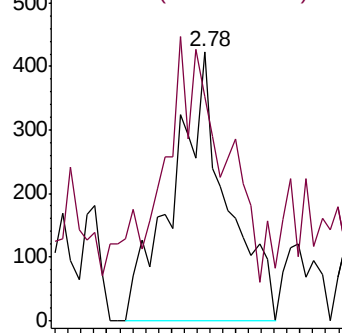
#5

Bromomethane  
 Concen: Below Cal  
 RT: 2.78 min Scan# 143  
 Delta R.T. 0.01 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

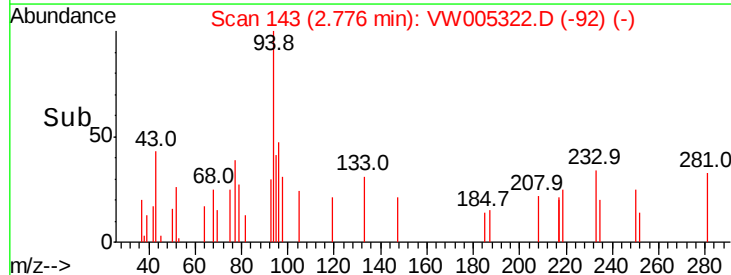
Tgt Ion: 94 Resp: 1201  
 Ion Ratio Lower Upper  
 94 100  
 96 63.9 74.1 111.1#

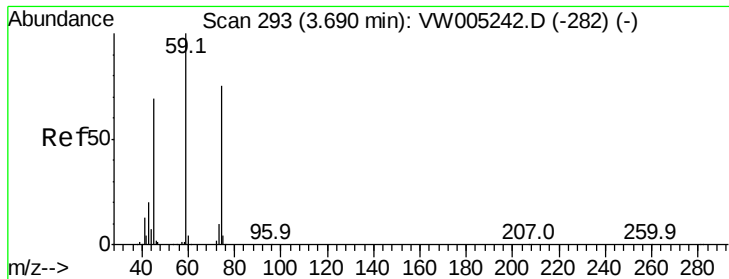


Abundance Ion 93.90 (93.60 to 94.60): VW  
 Ion 95.90 (95.60 to 96.60): VW



Time-->





#8

Diethyl Ether

Concen: 1.301 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.00 min

Lab File: VW005322.D

Acq: 12 Sep 2018 13:49

Instrument :

MSVOA\_W

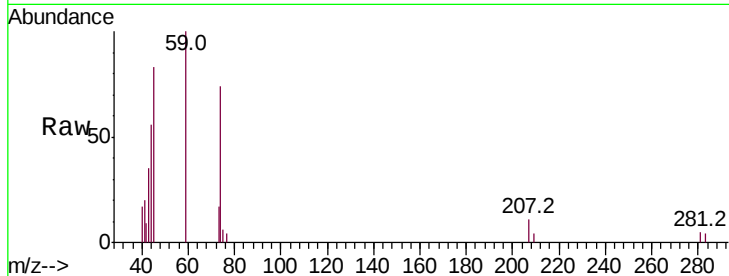
ClientSampled :

Tot Ion: 74 Resp: 2475

Ion Ratio Lower Upper

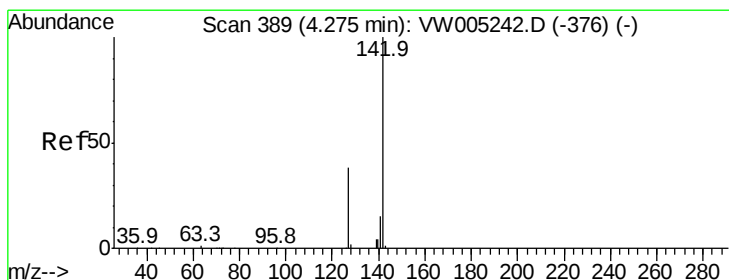
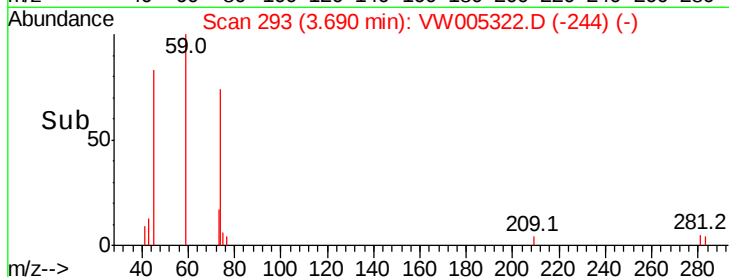
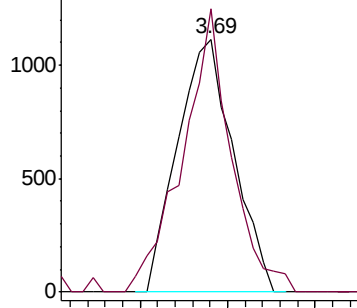
74 100

45 97.1 45.1 135.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#10

Methyl Iodide

Concen: 3.476 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.00 min

Lab File: VW005322.D

Acq: 12 Sep 2018 13:49

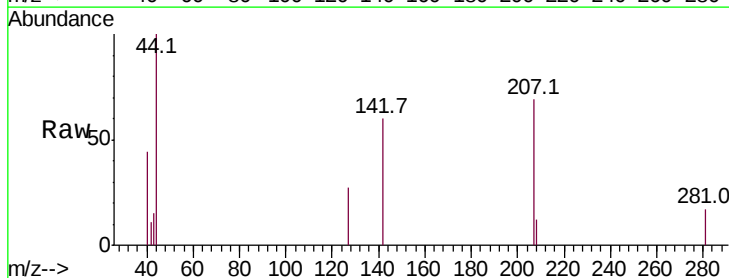
Tgt Ion: 142 Resp: 760

Ion Ratio Lower Upper

142 100

127 33.9 30.3 45.5

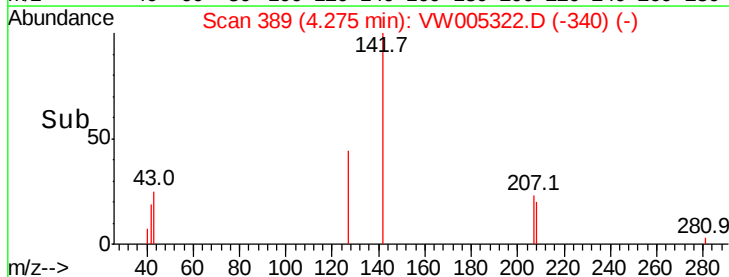
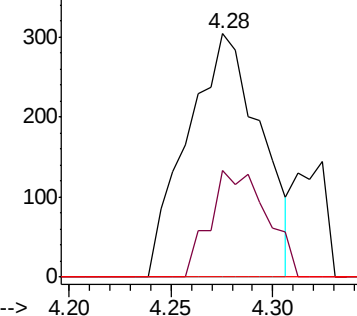
141 0.0 11.4 17.0#

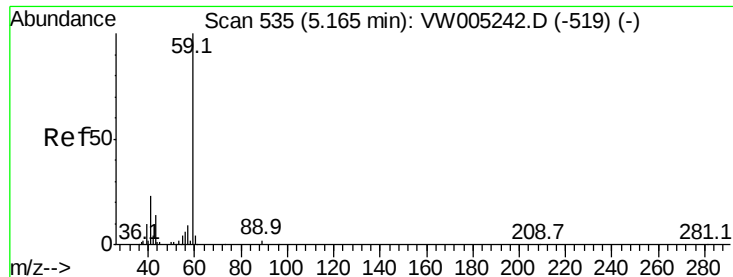


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



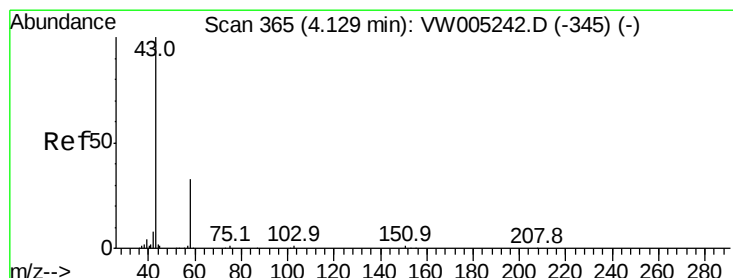
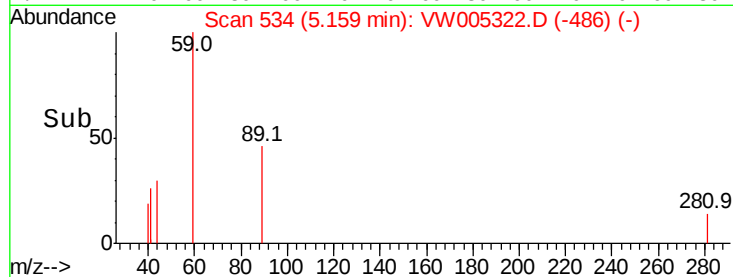
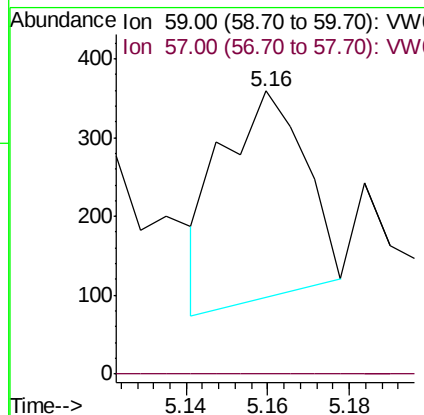
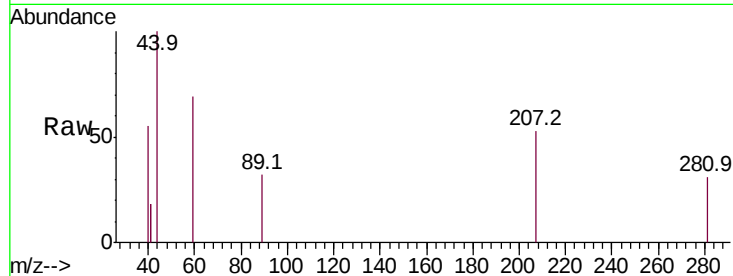


#11

Tert butyl alcohol  
 Concen: 1.386 ug/l  
 RT: 5.16 min Scan# 534  
 Delta R.T. -0.01 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

Instrument :  
 MSVOA\_W  
 ClientSampled :

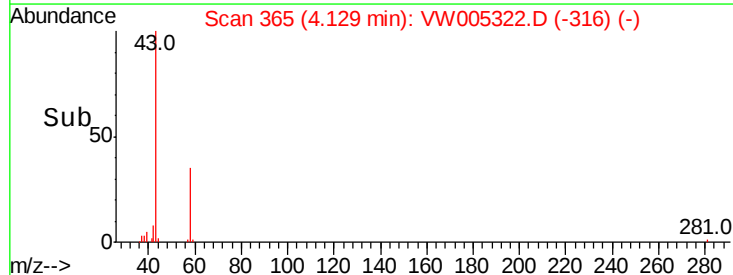
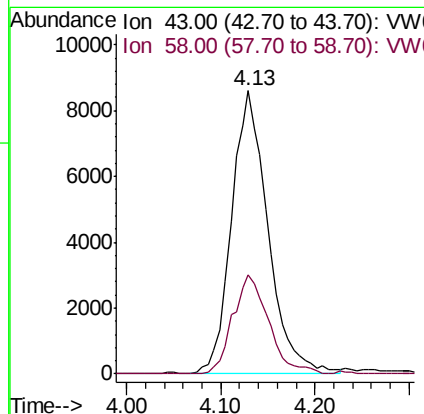
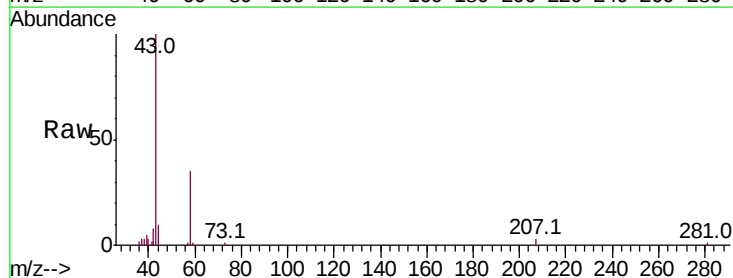
Tot Ion: 59 Resp: 378  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.1 12.1#

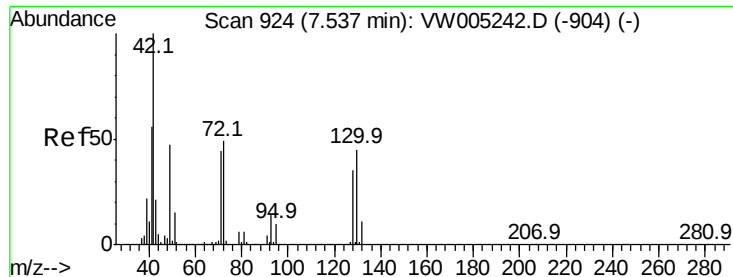


#16

Acetone  
 Concen: 37.616 ug/l  
 RT: 4.13 min Scan# 365  
 Delta R.T. 0.00 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

Tgt Ion: 43 Resp: 23217  
 Ion Ratio Lower Upper  
 43 100  
 58 34.9 26.7 40.1

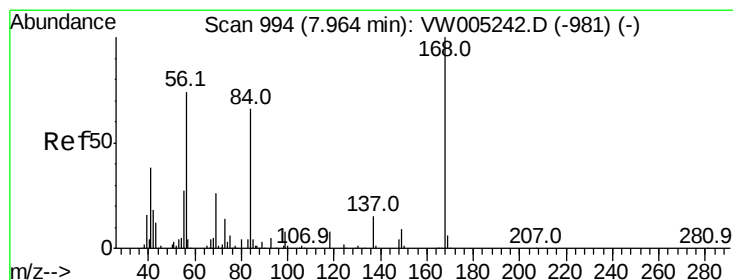
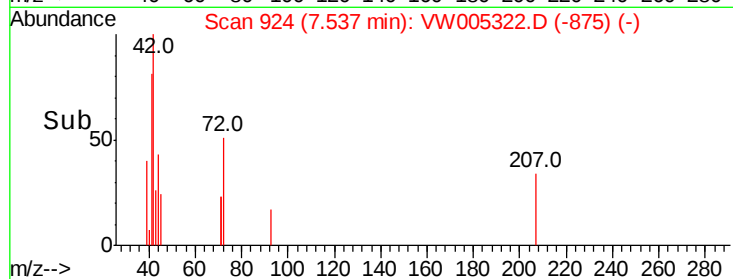
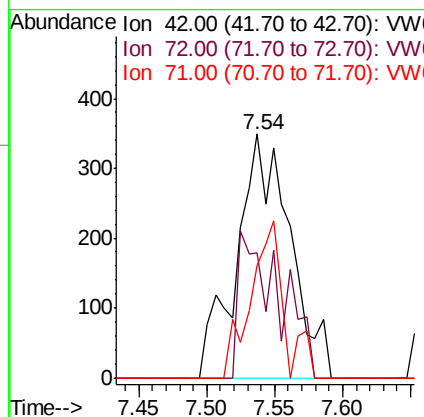
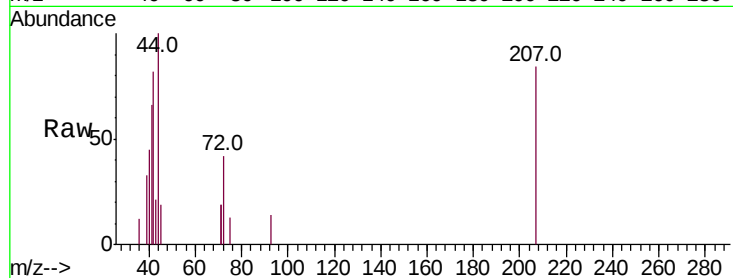




#29  
Tetrahydrofuran  
Concen: 1.459 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

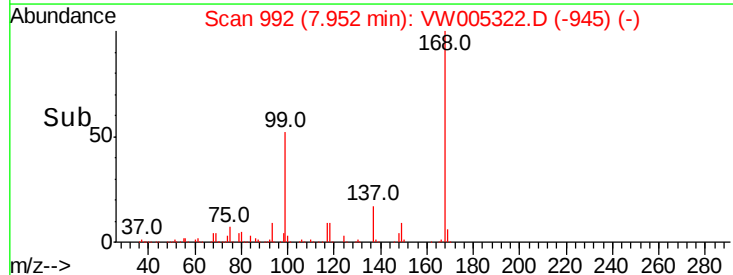
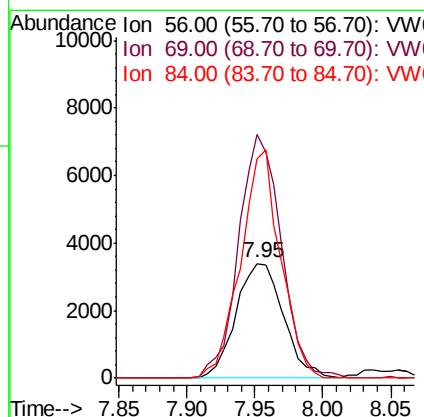
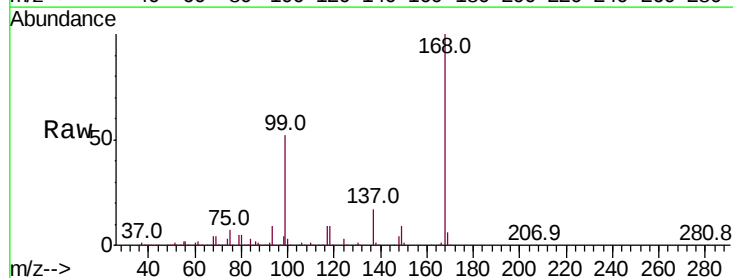
Instrument :  
MSVOA\_W  
ClientSampled :

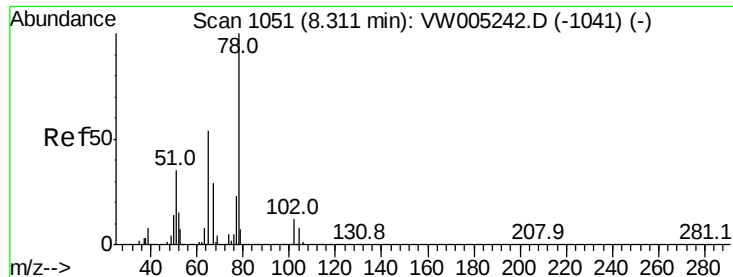
Tot Ion: 42 Resp: 957  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.5 56.3#  
71 40.4 34.8 52.2



#31  
Cyclohexane  
Concen: 1.162 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

Tgt Ion: 56 Resp: 8266  
Ion Ratio Lower Upper  
56 100  
69 212.9 27.8 41.8#  
84 191.7 72.1 108.1#





#33

1,2-Dichloroethane-d4

Concen: 53.036 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW005322.D

Acq: 12 Sep 2018 13:49

Instrument :

MSVOA\_W

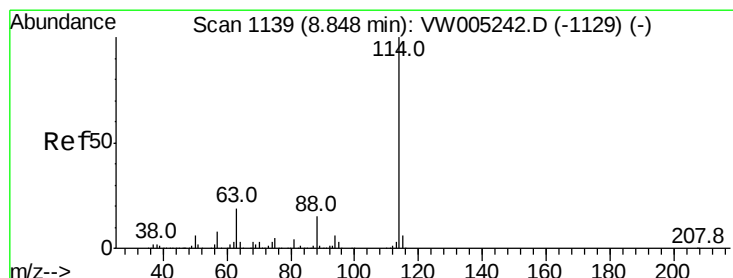
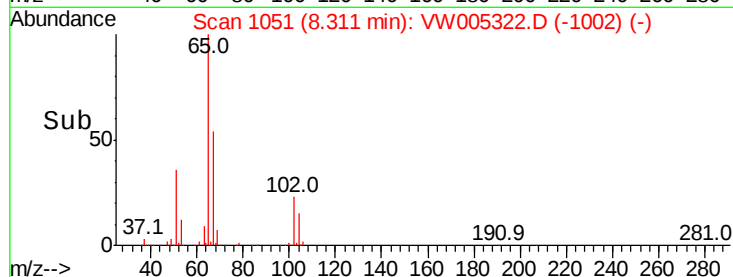
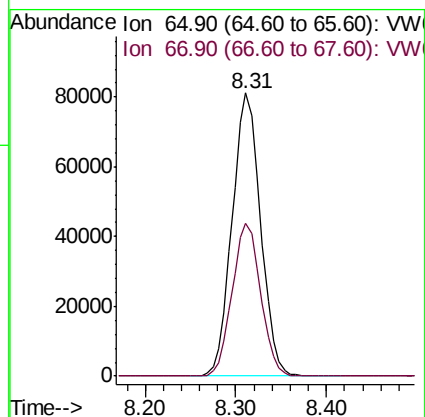
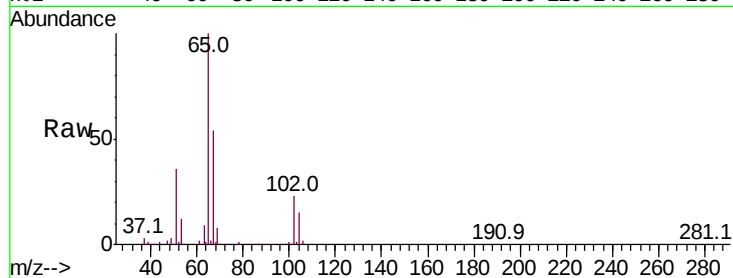
ClientSampled :

Tot Ion: 65 Resp: 176356

Ion Ratio Lower Upper

65 100

67 54.4 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW005322.D

Acq: 12 Sep 2018 13:49

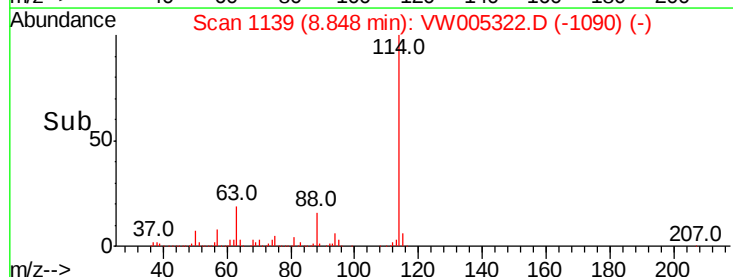
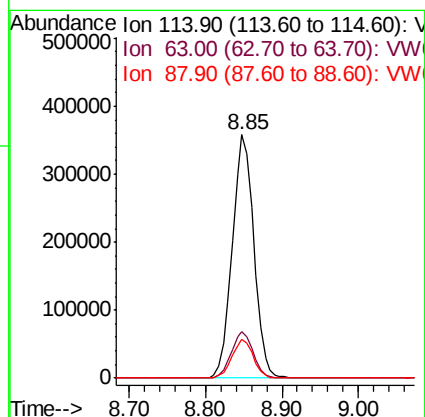
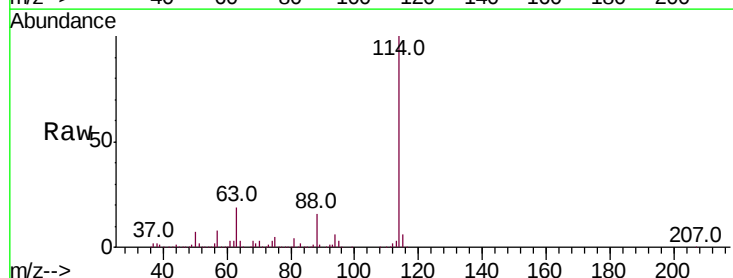
Tgt Ion: 114 Resp: 699611

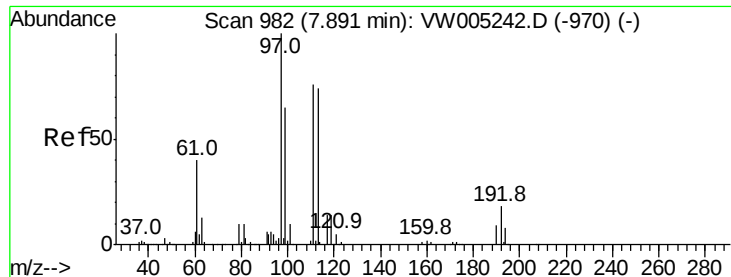
Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.0

88 15.7 0.0 30.4

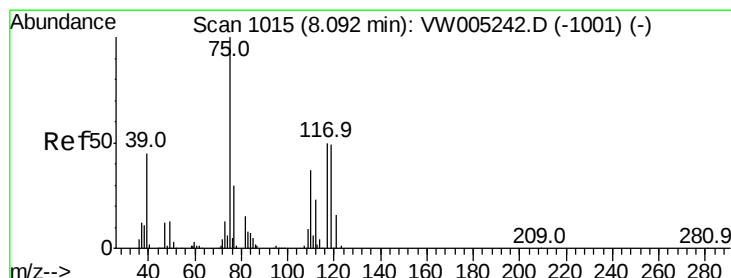
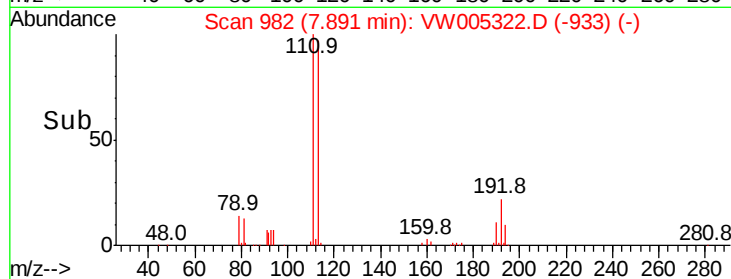
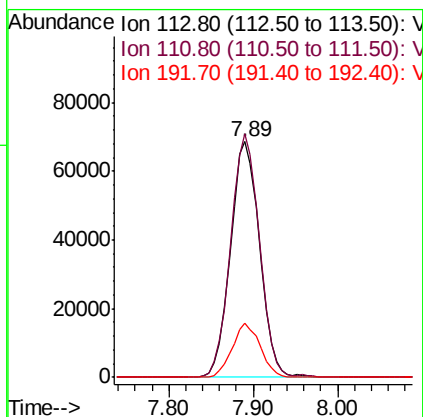
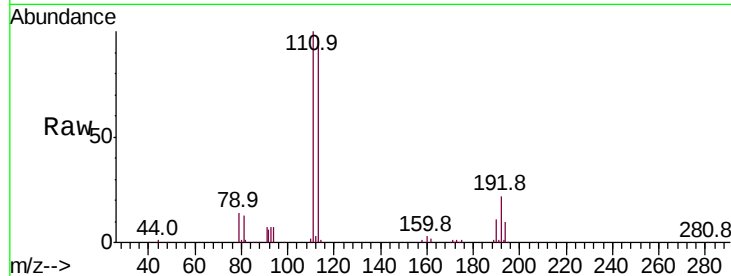




#35  
 Dibromofluoromethane  
 Concen: 43.695 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

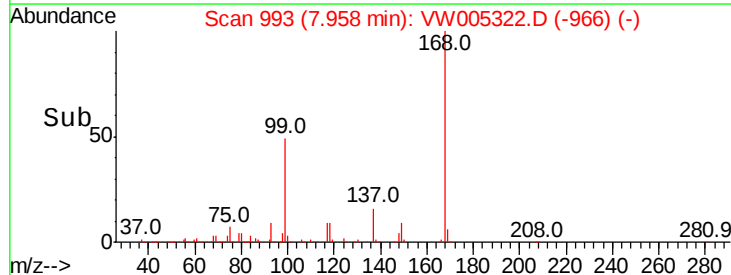
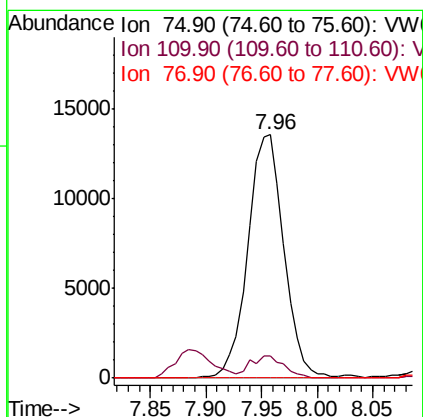
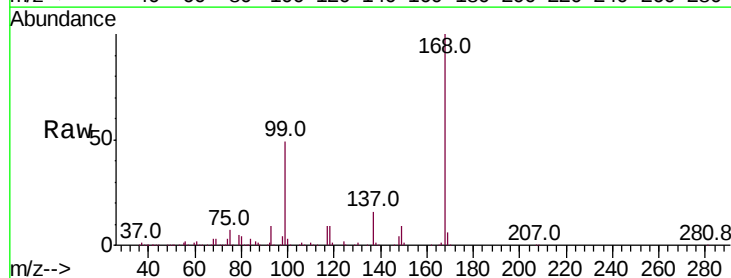
Instrument :  
 MSVOA\_W  
 ClientSampled :

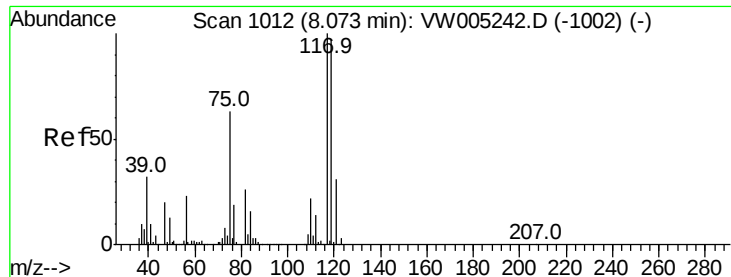
Tot Ion:113 Resp: 160135  
 Ion Ratio Lower Upper  
 113 100  
 111 102.5 80.6 121.0  
 192 22.0 18.3 27.5



#36  
 1,1-Dichloropropene  
 Concen: 4.769 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VW005322.D  
 Acq: 12 Sep 2018 13:49

Tgt Ion: 75 Resp: 30570  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 18.8 56.4#  
 77 0.0 24.9 37.3#

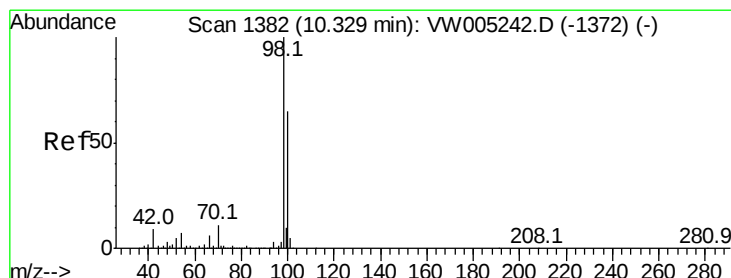
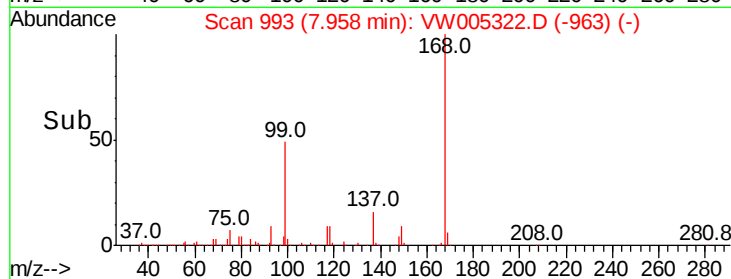
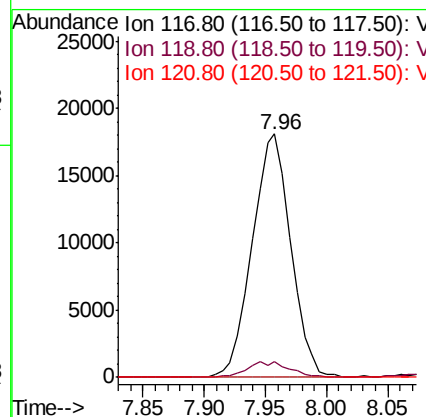
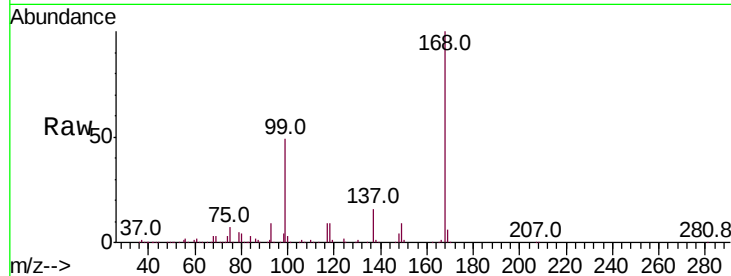




#38  
Carbon Tetrachloride  
Concen: 6.609 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. -0.12 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

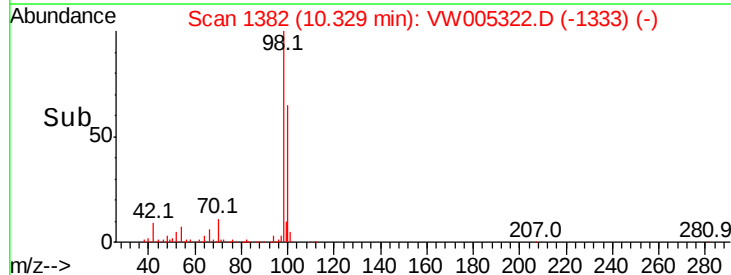
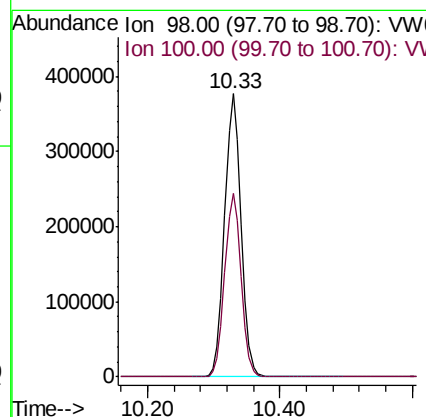
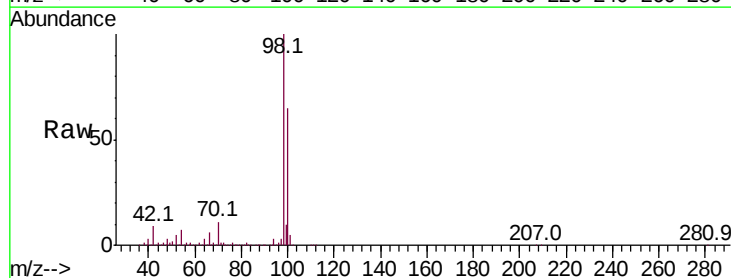
Instrument :  
MSVOA\_W  
ClientSampled :

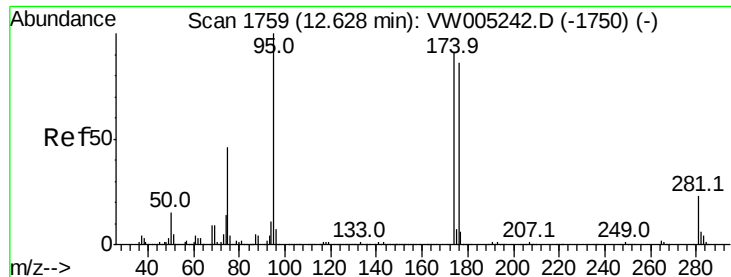
Tot Ion:117 Resp: 39680  
Ion Ratio Lower Upper  
117 100  
119 6.7 77.5 116.3#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 34.890 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

Tgt Ion: 98 Resp: 646127  
Ion Ratio Lower Upper  
98 100  
100 64.9 52.0 78.0

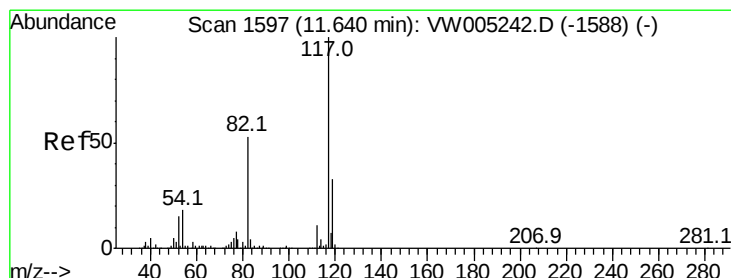
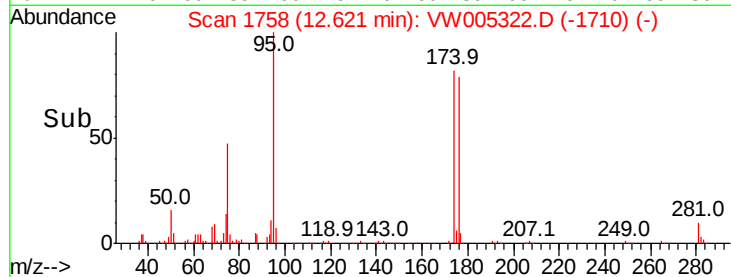
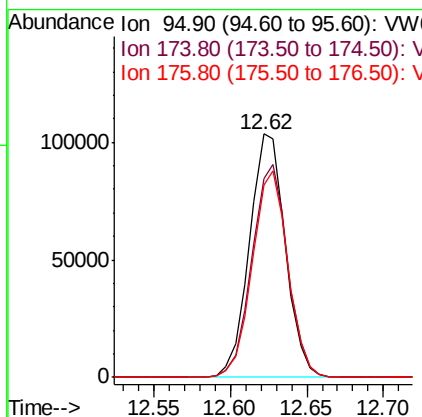
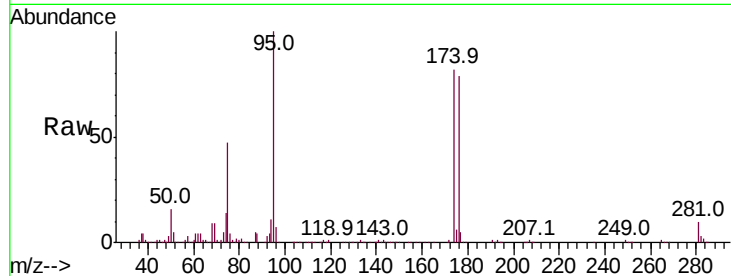




#62  
4-Bromofluorobenzene  
Concen: 24.872 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.01 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

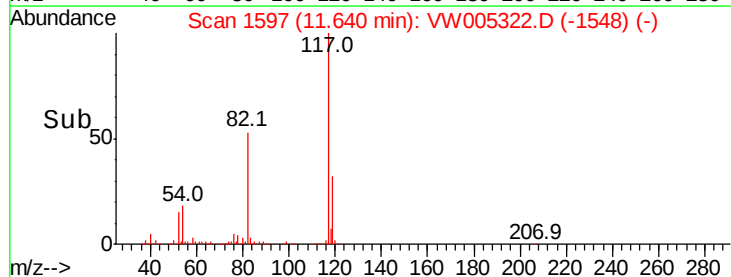
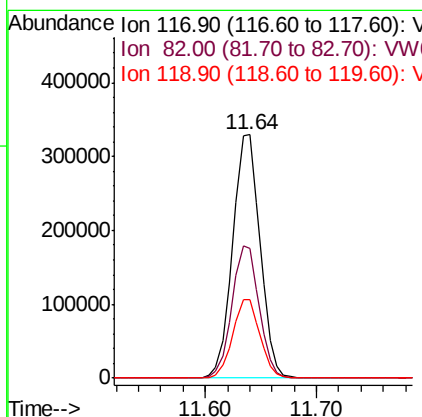
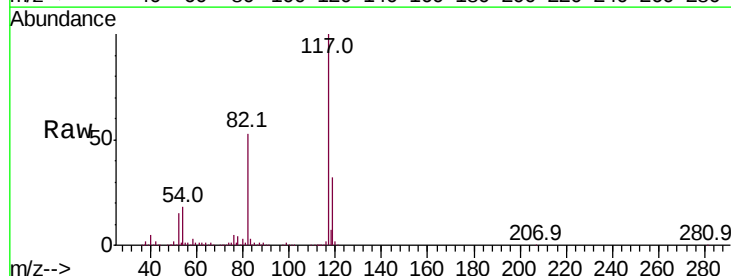
Instrument :  
MSVOA\_W  
ClientSampleId :

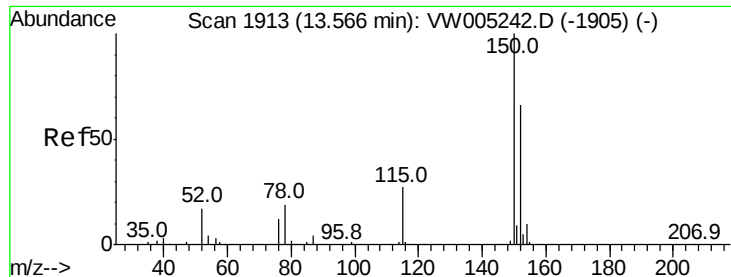
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 87.6  | 0.0   | 174.6 |
| 176     | 84.2  | 0.0   | 167.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1597  
Delta R.T. 0.00 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.2  | 42.6  | 63.8  |
| 119     | 32.4  | 26.2  | 39.4  |



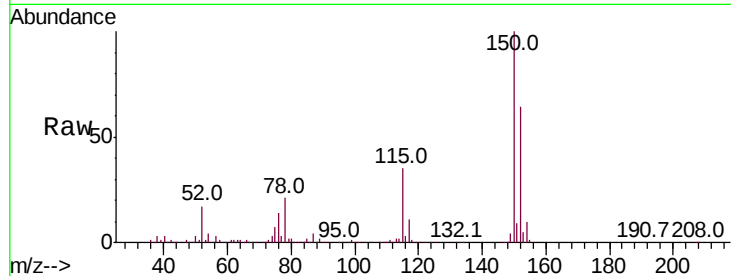


#72

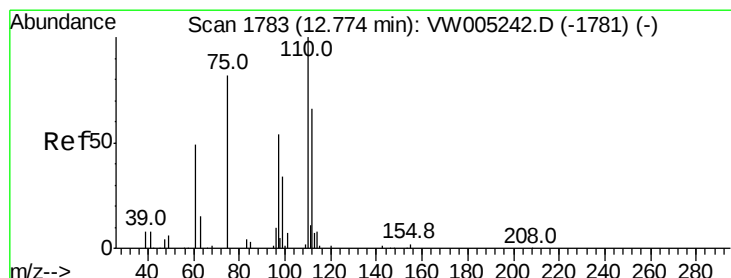
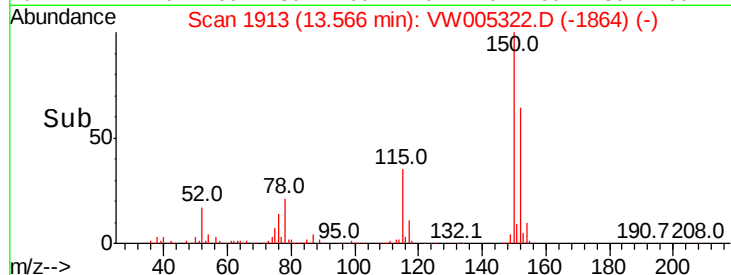
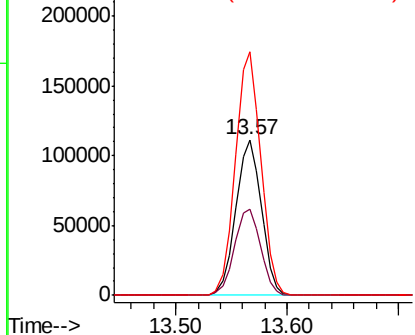
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1913  
Delta R.T. 0.00 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:152 Resp: 176261  
Ion Ratio Lower Upper  
152 100  
115 56.5 27.5 82.4  
150 156.4 0.0 347.4



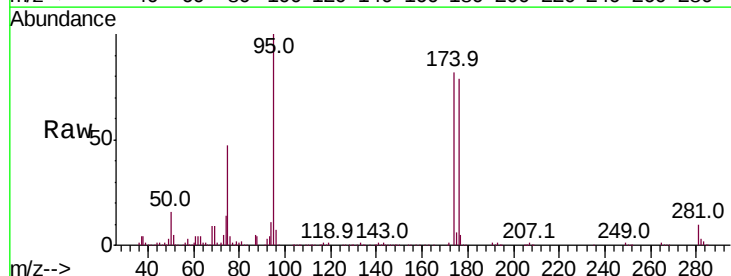
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



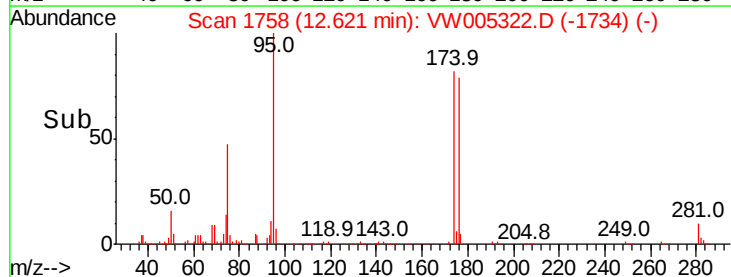
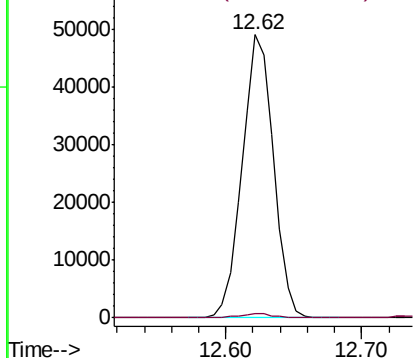
#76

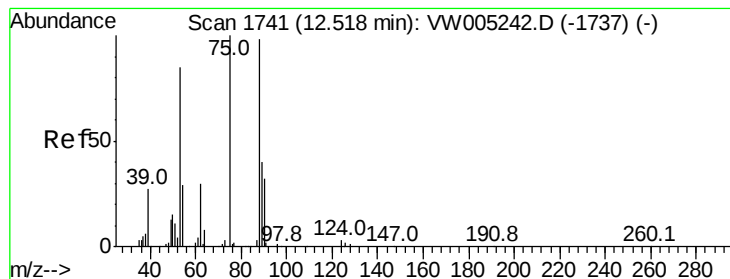
1,2,3-Trichloropropane  
Concen: 58.217 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.15 min  
Lab File: VW005322.D  
Acq: 12 Sep 2018 13:49

Tgt Ion: 75 Resp: 78925  
Ion Ratio Lower Upper  
75 100  
77 1.6 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: 136.531 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005322.D

Acq: 12 Sep 2018 13:49

Instrument :

MSVOA\_W

ClientSampleId :

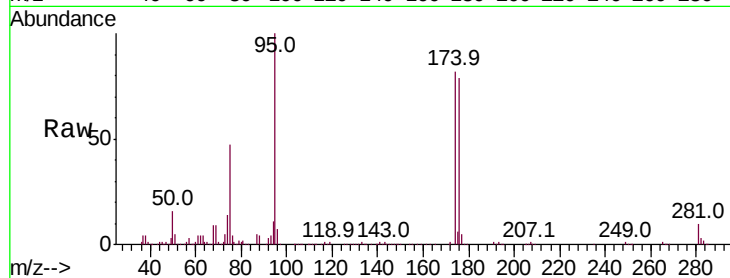
Tot Ion: 75 Resp: 78925

Ion Ratio Lower Upper

75 100

53 0.3 67.0 100.6#

89 0.1 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

