

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071819\  
 Data File : VW011344.D  
 Acq On : 18 Jul 2019 19:48  
 Operator : SY/VA  
 Sample : K3903-03  
 Misc : 5.19G/5ML/MSVOA W/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Jul 19 06:46:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 11 08:14:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 189553   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 330118   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 281210   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 117867   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 137832   | 57.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.74% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 102328   | 52.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.02% |          |
| 50) Toluene-d8              | 10.32 | 98   | 410830   | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 135230   | 46.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.78%  |          |

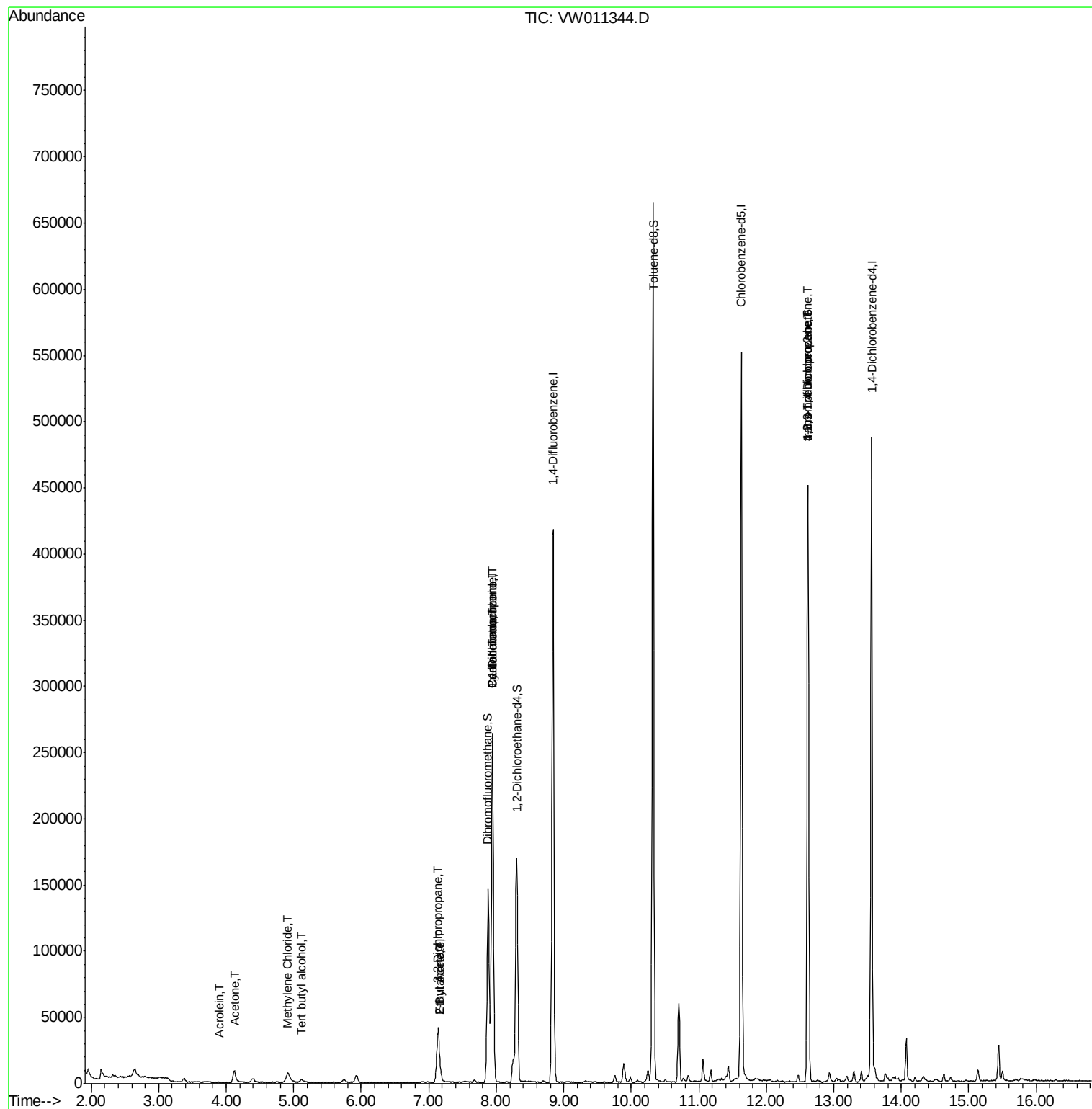
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.11  | 59   | 2705     | 15.340    | ug/l # | 75     |
| 13) Acrolein                   | 3.90  | 56   | 158      | 1.125     | ug/l # | 45     |
| 16) Acetone                    | 4.12  | 43   | 16961    | 29.596    | ug/l   | 97     |
| 18) Methyl Acetate             | 4.67  | 43   | 263      | Below Cal | #      | 57     |
| 20) Methylene Chloride         | 4.91  | 84   | 5603     | 2.478     | ug/l   | 89     |
| 25) 2-Butanone                 | 7.17  | 43   | 7417     | 8.245     | ug/l   | 91     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 2679     | 1.188     | ug/l # | 53     |
| 31) Cyclohexane                | 7.94  | 56   | 5160     | 1.118     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16995    | 4.834     | ug/l # | 52     |
| 37) Ethyl Acetate              | 7.17  | 43   | 7417     | 3.512     | ug/l # | 72     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 19458    | 6.529     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 72959    | 53.563    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 72959    | 121.150   | ug/l # | 6      |

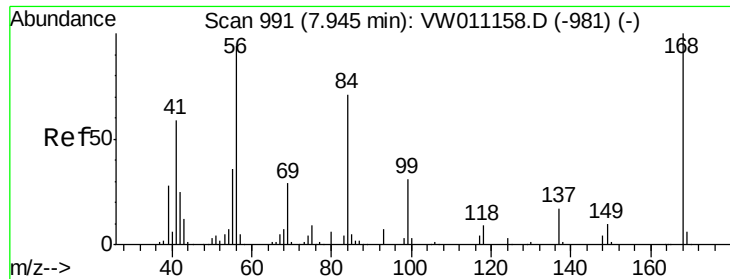
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW071819\  
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Sample : K3903-03  
Misc : 5.19G/5ML/MSVOA W/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Jul 19 06:46:37 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 11 08:14:17 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

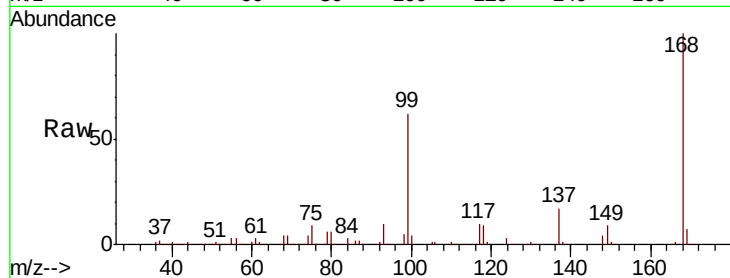
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:168 Resp: 189553

Ion Ratio Lower Upper

168 100

99 62.3 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

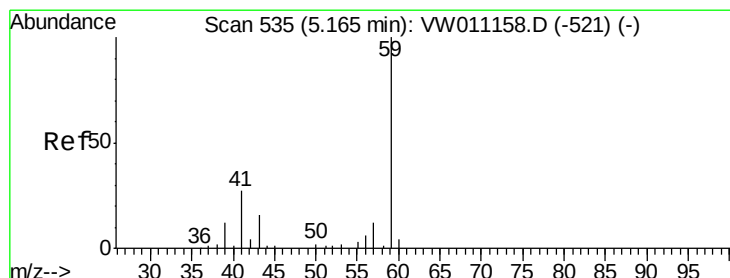
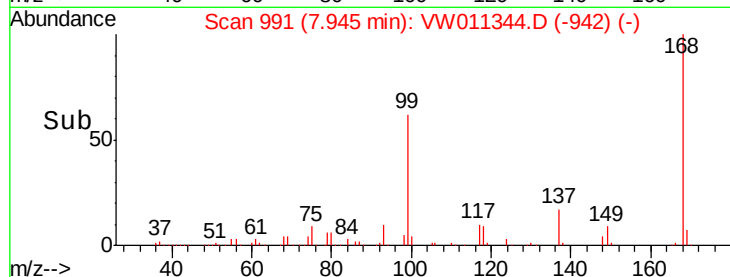
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 15.340 ug/l

RT: 5.11 min Scan# 526

Delta R.T. -0.05 min

Lab File: VW011344.D

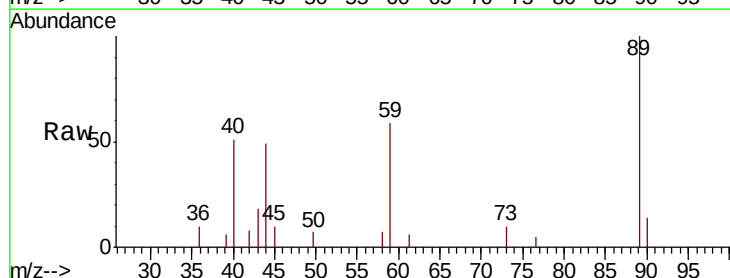
Acq: 18 Jul 2019 19:48

Tgt Ion: 59 Resp: 2705

Ion Ratio Lower Upper

59 100

57 1.7 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.11

600

500

400

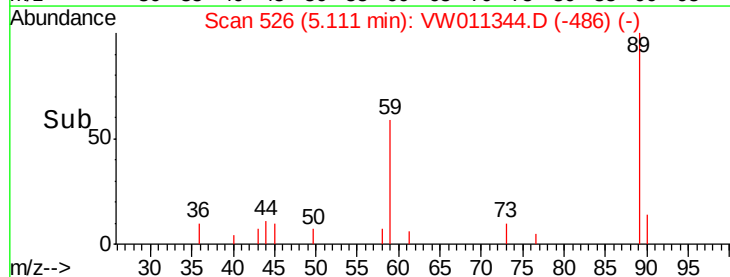
300

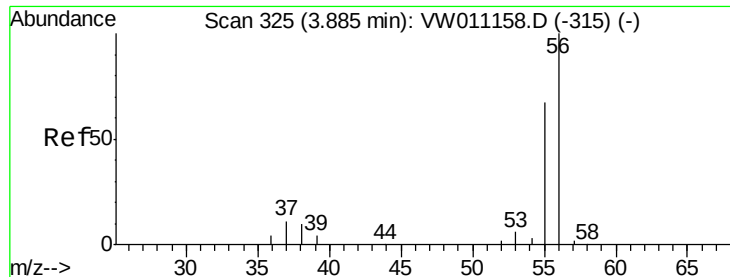
200

100

0

Time--> 5.00 5.10 5.20

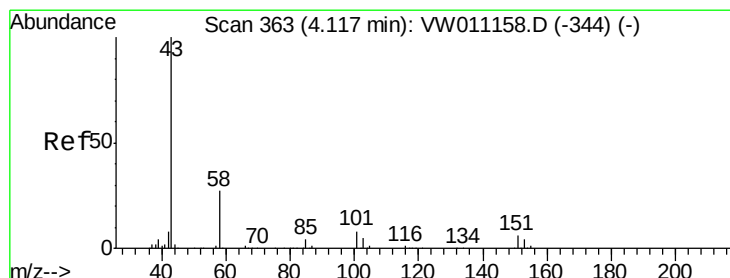
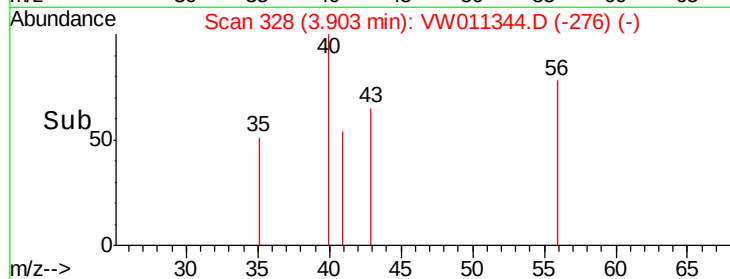
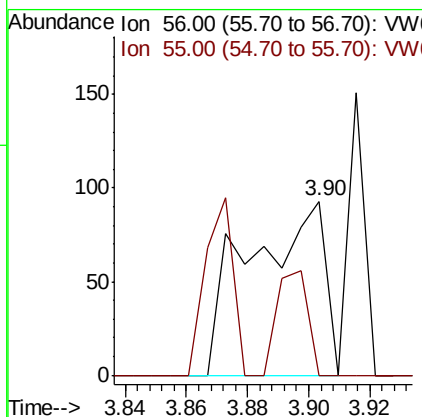
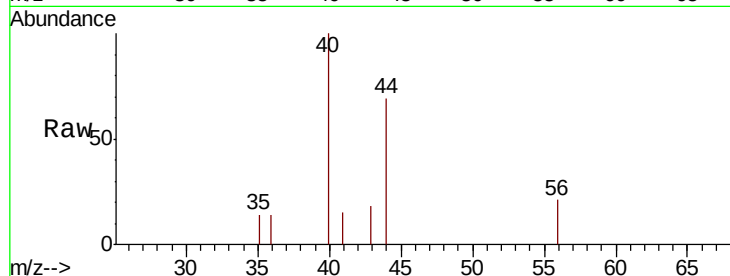




#13  
Acrolein  
Concen: 1.125 ug/l  
RT: 3.90 min Scan# 328  
Delta R.T. 0.02 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

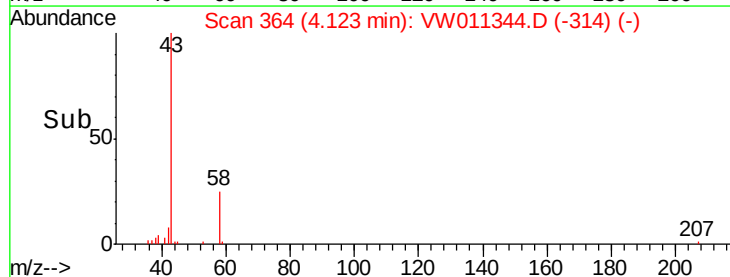
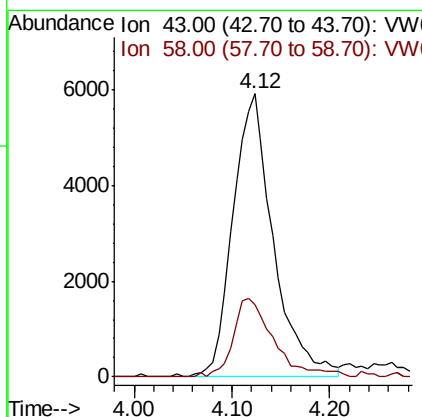
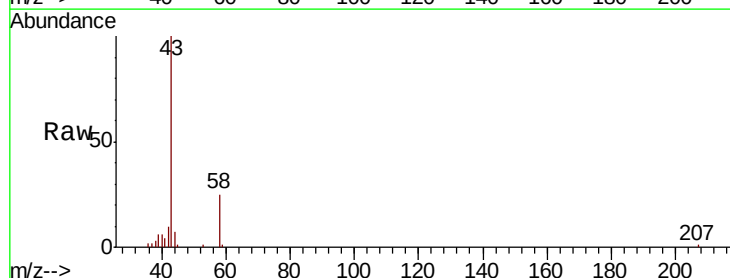
Instrument :  
MSVOA\_W  
ClientSampled :

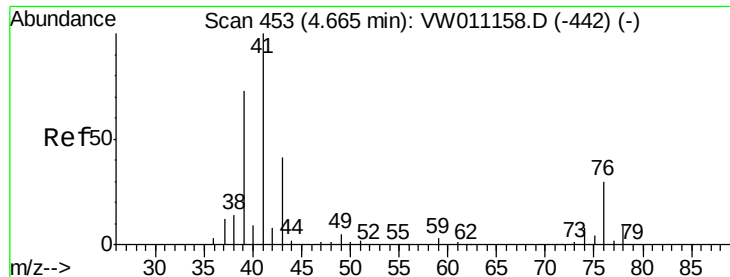
Tot Ion: 56 Resp: 158  
Ion Ratio Lower Upper  
56 100  
55 25.3 56.4 84.6#



#16  
Acetone  
Concen: 29.596 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

Tgt Ion: 43 Resp: 16961  
Ion Ratio Lower Upper  
43 100  
58 25.4 21.8 32.6

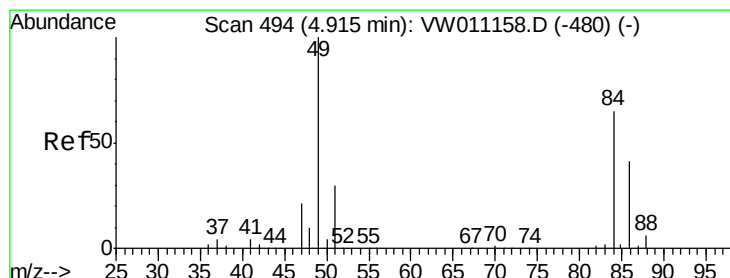
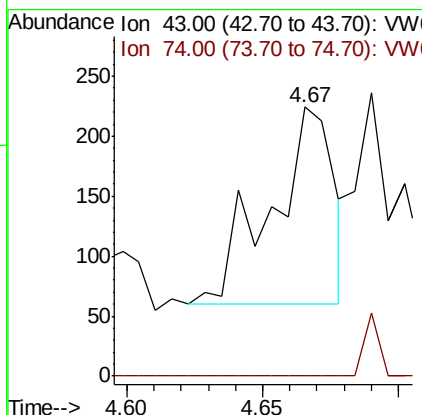
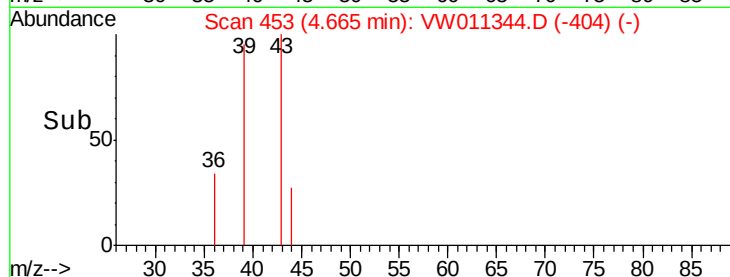
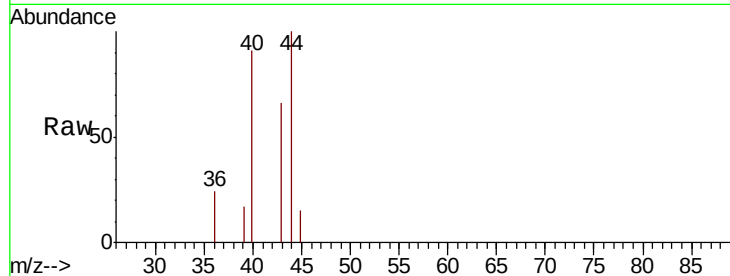




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

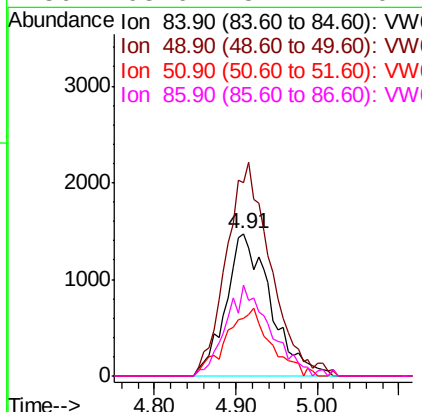
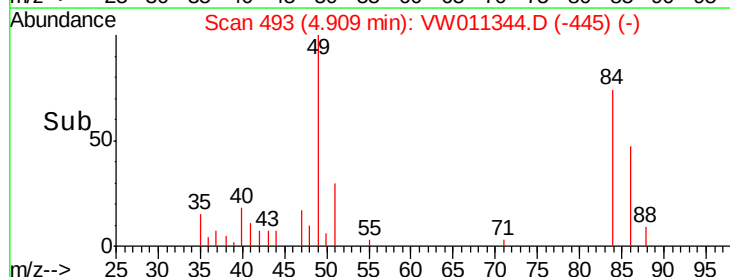
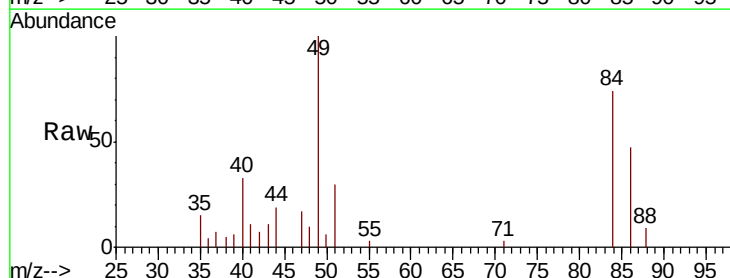
Instrument :  
MSVOA\_W  
ClientSampled :

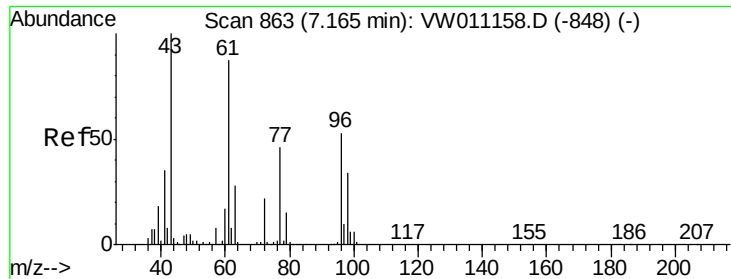
Tot Ion: 43 Resp: 263  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.7 23.5#



#20  
Methylene Chloride  
Concen: 2.478 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

Tgt Ion: 84 Resp: 5603  
Ion Ratio Lower Upper  
84 100  
49 135.2 123.8 185.6  
51 40.2 37.4 56.2  
86 63.6 51.1 76.7





#25

2-Butanone

Concen: 8.245 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

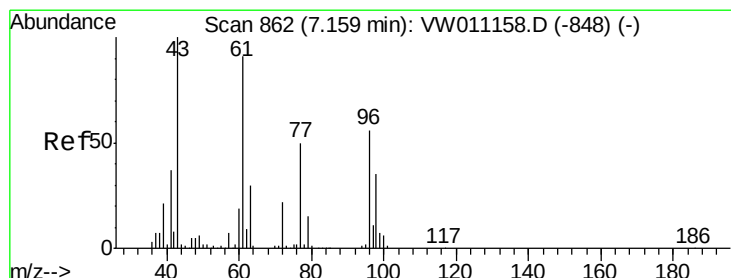
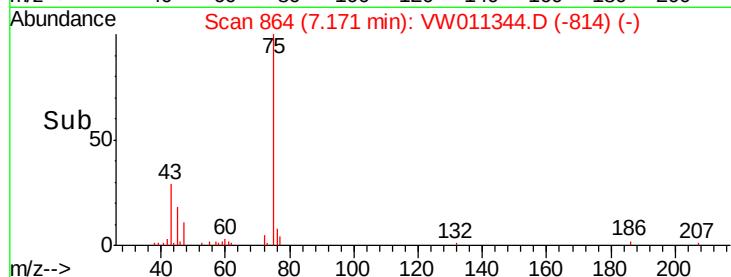
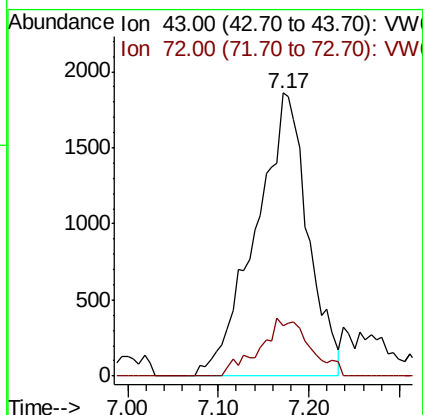
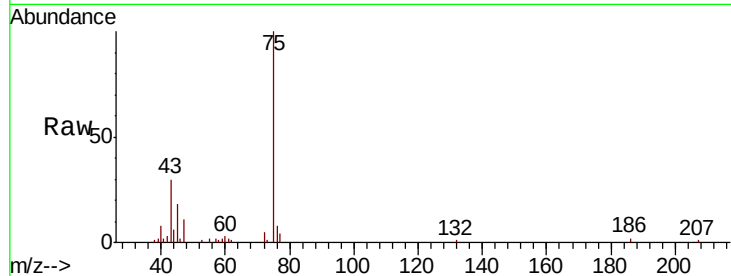
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 7417

Ion Ratio Lower Upper

43 100

72 17.9 17.6 26.4



#26

2,2-Dichloropropane

Concen: 1.188 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW011344.D

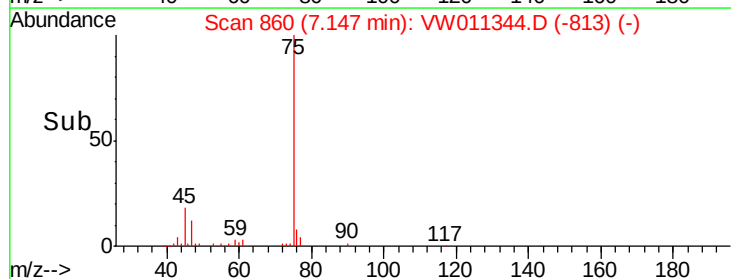
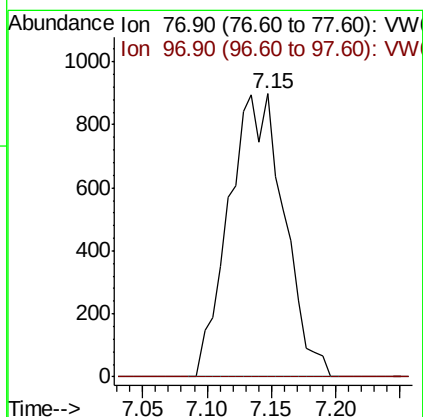
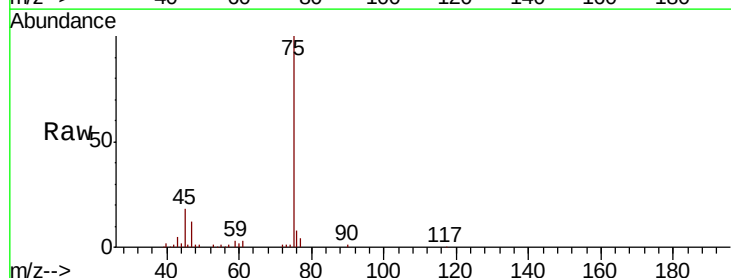
Acq: 18 Jul 2019 19:48

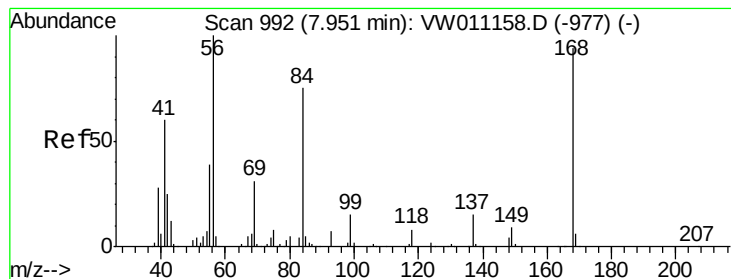
Tgt Ion: 77 Resp: 2679

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#





#31

Cyclohexane

Concen: 1.118 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

Instrument :

MSVOA\_W

ClientSampleId :

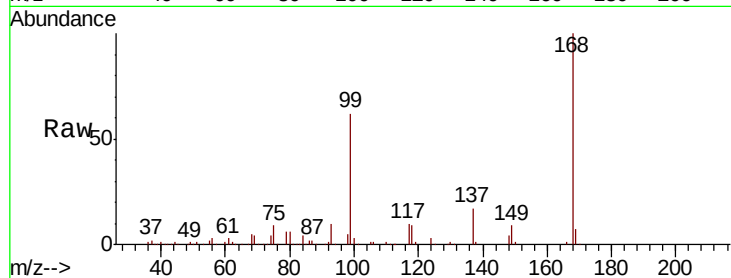
Tot Ion: 56 Resp: 5160

Ion Ratio Lower Upper

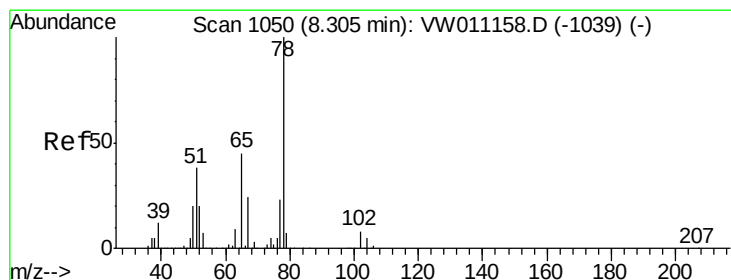
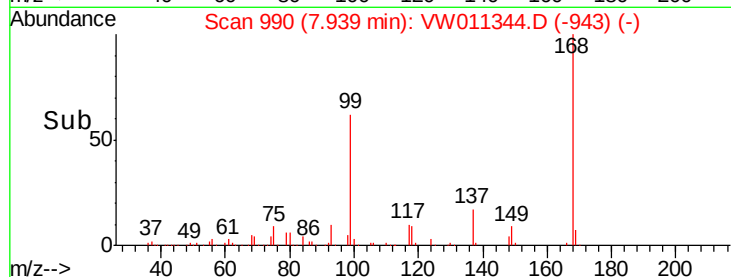
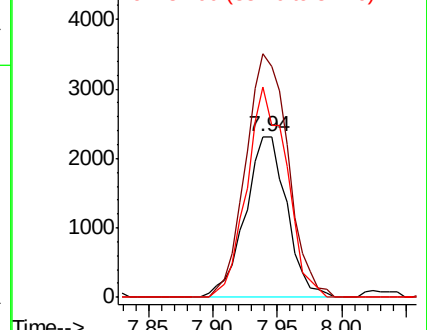
56 100

69 151.5 24.6 36.8#

84 130.8 60.1 90.1#



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: 57.869 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW011344.D

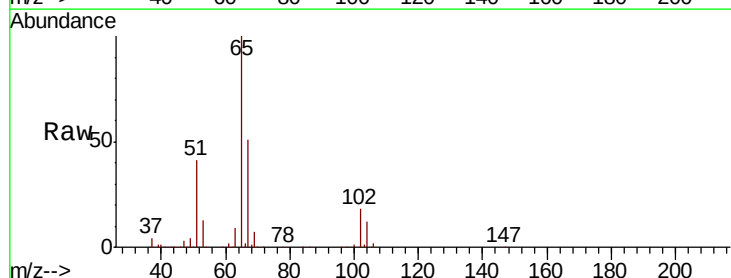
Acq: 18 Jul 2019 19:48

Tgt Ion: 65 Resp: 137832

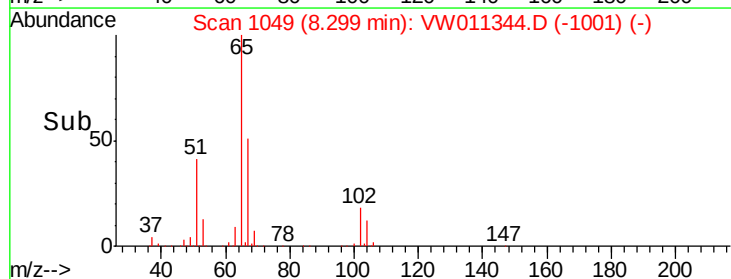
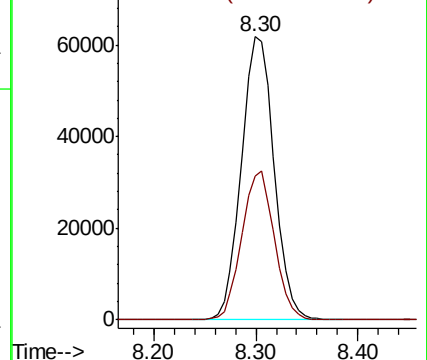
Ion Ratio Lower Upper

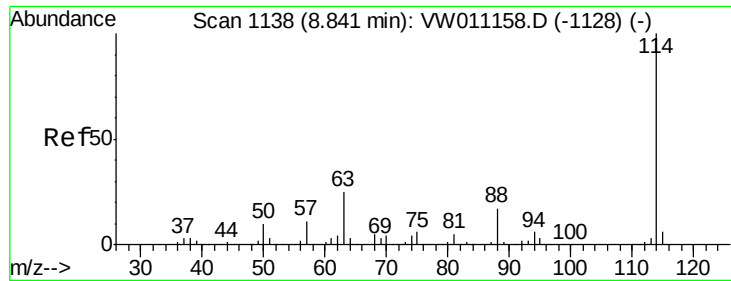
65 100

67 52.4 0.0 104.4



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

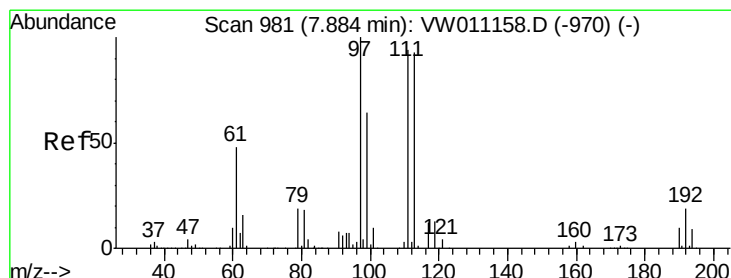
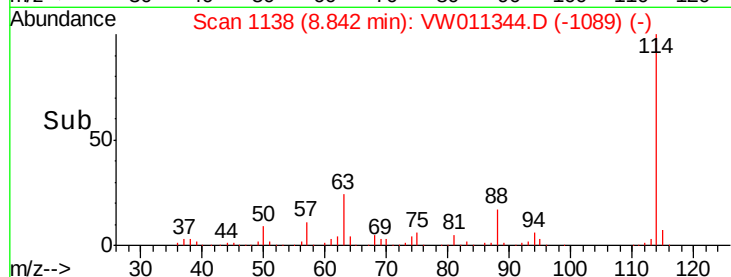
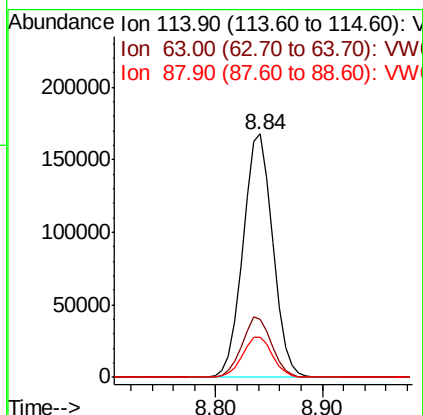
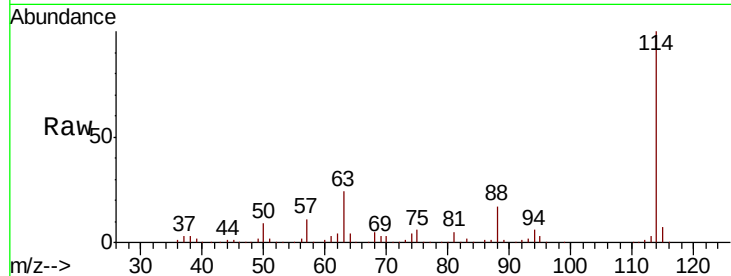




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011344.D  
 Acq: 18 Jul 2019 19:48

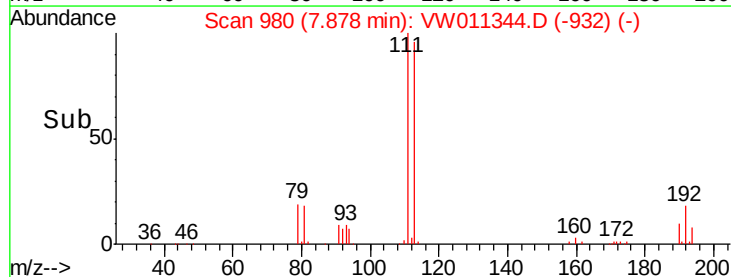
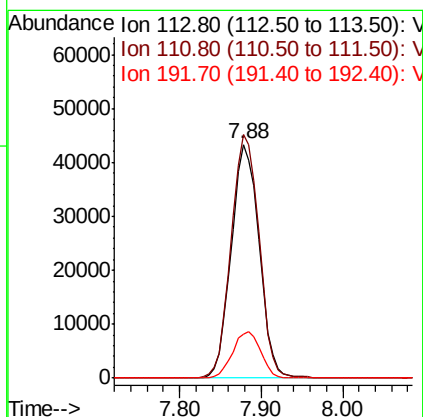
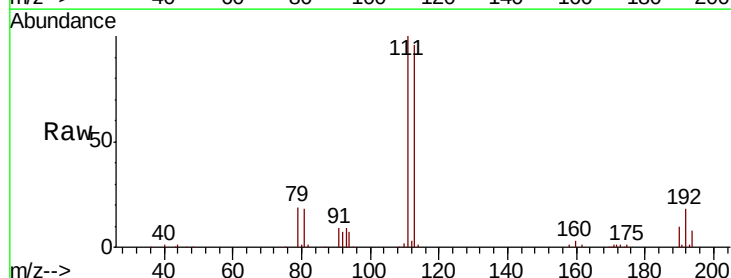
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion:114 Resp: 330118  
 Ion Ratio Lower Upper  
 114 100  
 63 24.0 0.0 50.8  
 88 16.6 0.0 34.2

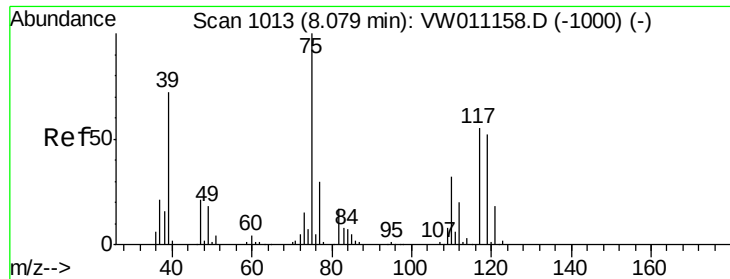


#35  
 Dibromofluoromethane  
 Concen: 52.005 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW011344.D  
 Acq: 18 Jul 2019 19:48

Tgt Ion:113 Resp: 102328  
 Ion Ratio Lower Upper  
 113 100  
 111 104.4 82.4 123.6  
 192 19.9 15.8 23.8



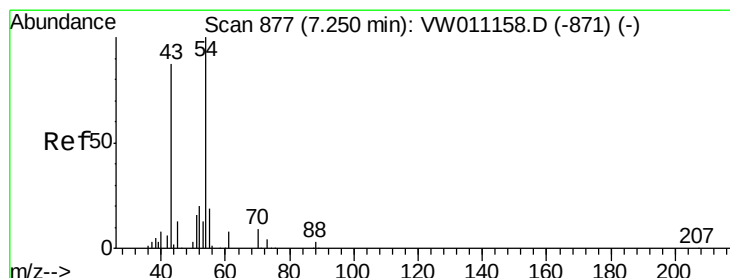
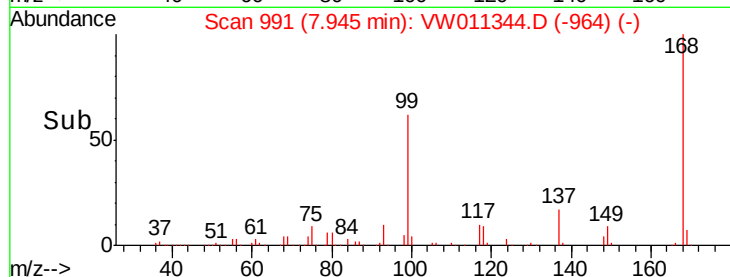
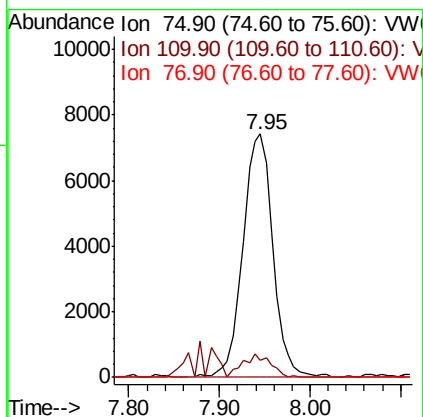
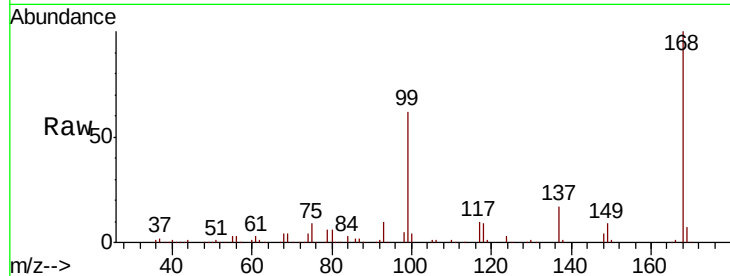




#36  
 1,1-Dichloropropene  
 Concen: 4.834 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011344.D  
 Acq: 18 Jul 2019 19:48

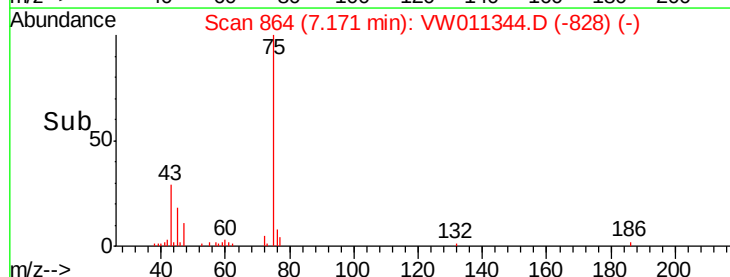
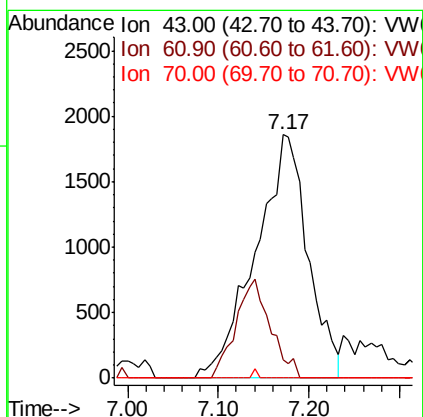
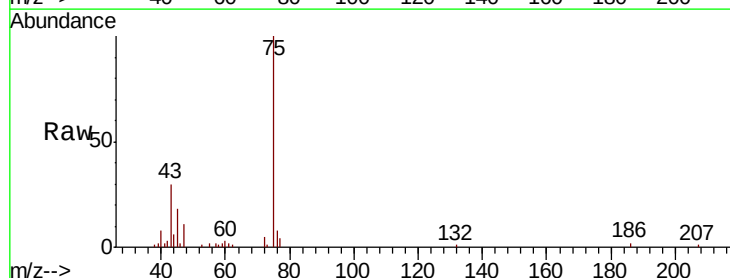
Instrument :  
 MSVOA\_W  
 ClientSampleId :

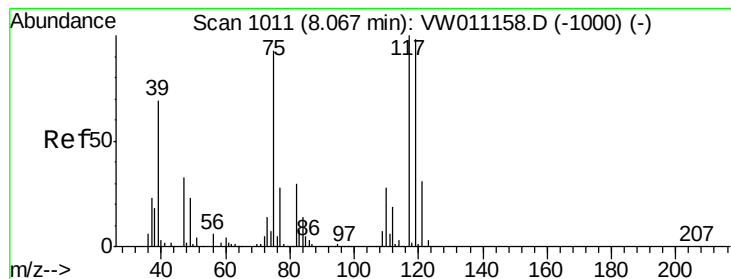
| Tot Ion   | 75  | Resp  | 16995 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 110       | 8.9 | 15.9  | 47.6# |
| 77        | 0.0 | 24.6  | 36.8# |



#37  
 Ethyl Acetate  
 Concen: 3.512 ug/l  
 RT: 7.17 min Scan# 864  
 Delta R.T. -0.08 min  
 Lab File: VW011344.D  
 Acq: 18 Jul 2019 19:48

| Tgt Ion                                              | 43  | Resp  | 7417  |
|------------------------------------------------------|-----|-------|-------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper |
| 61                                                   | 0.0 | 9.5   | 14.3# |
| 70                                                   | 0.0 | 7.1   | 10.7# |





#38

Carbon Tetrachloride

Concen: 6.529 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

Instrument :

MSVOA\_W

ClientSampleId :

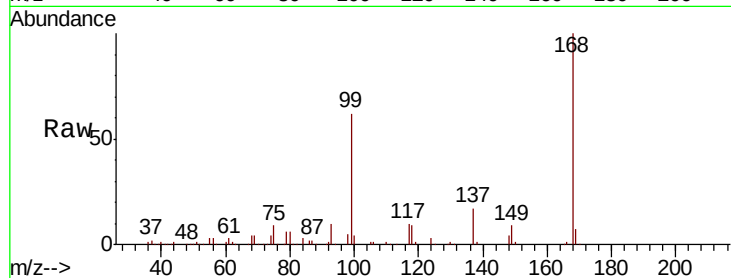
Tot Ion:117 Resp: 19458

Ion Ratio Lower Upper

117 100

119 6.4 78.1 117.1#

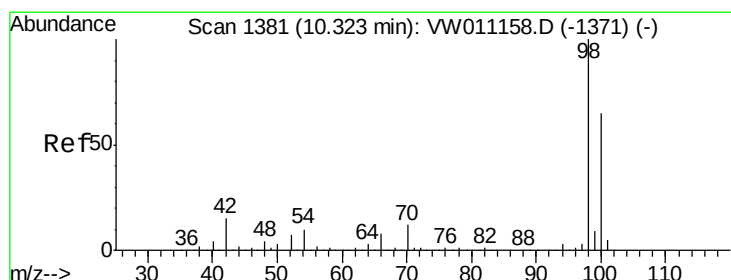
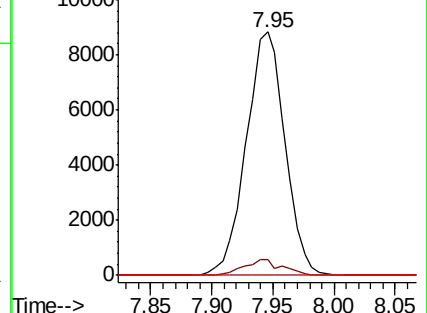
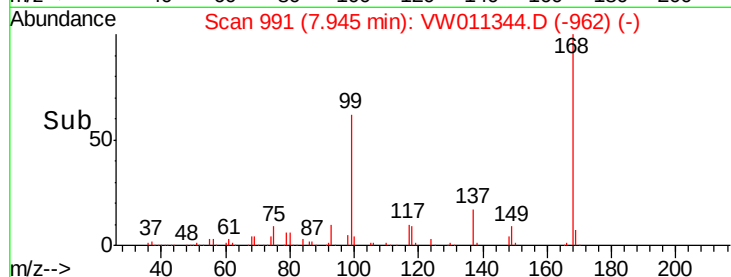
121 0.0 25.1 37.7#



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: 51.654 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011344.D

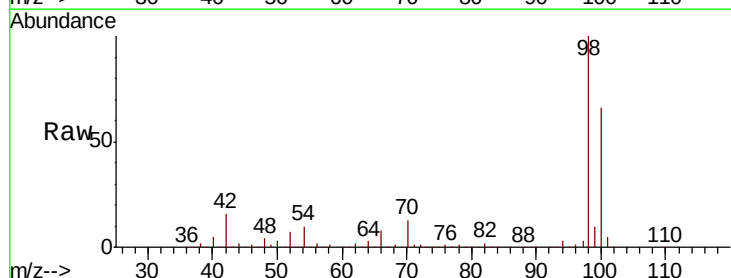
Acq: 18 Jul 2019 19:48

Tgt Ion: 98 Resp: 410830

Ion Ratio Lower Upper

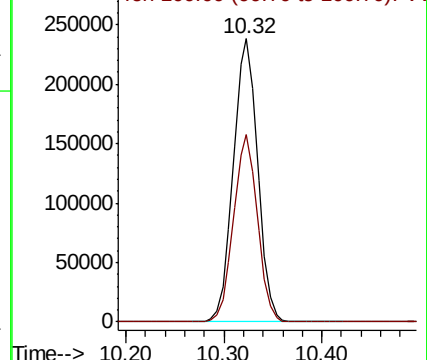
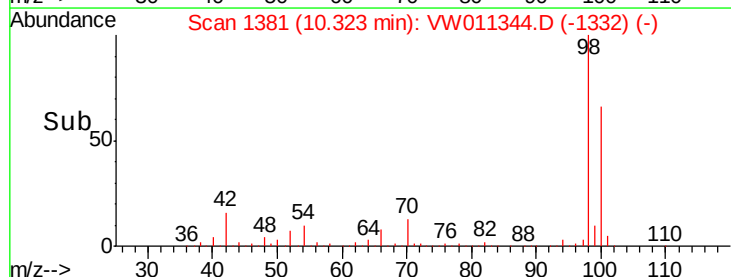
98 100

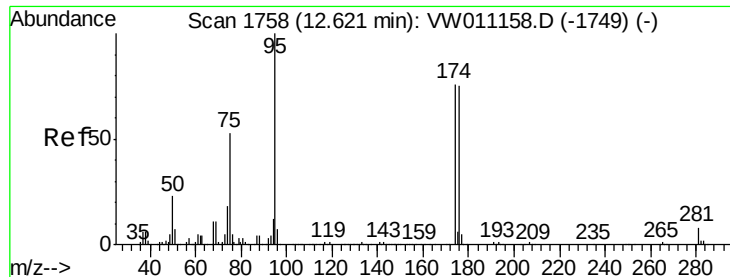
100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

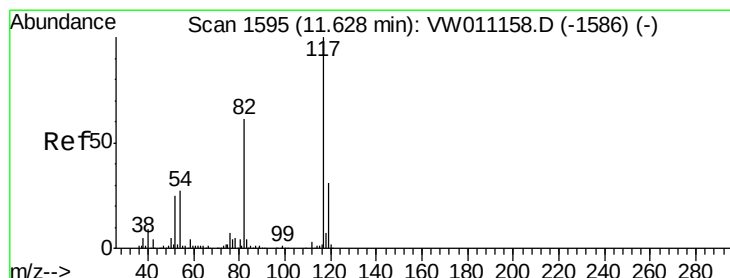
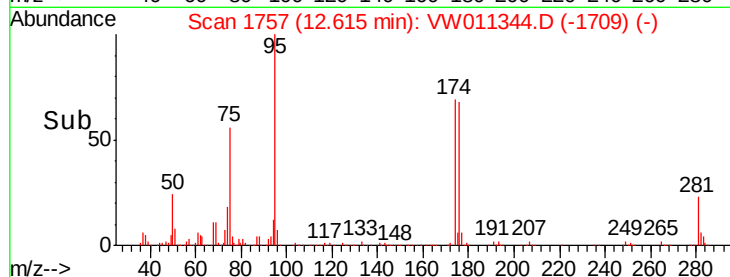
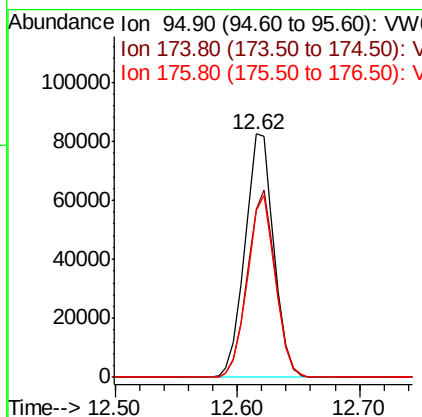
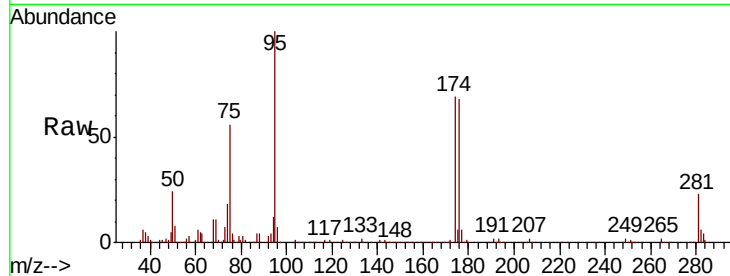




#62  
4-Bromofluorobenzene  
Concen: 46.387 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

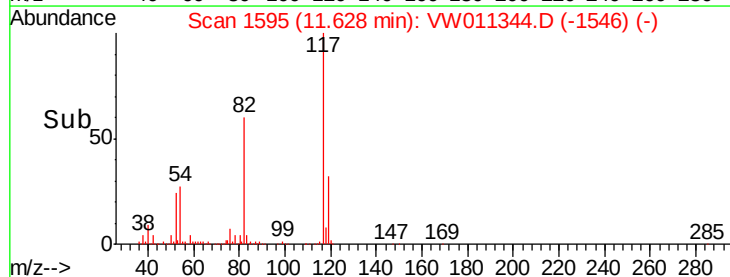
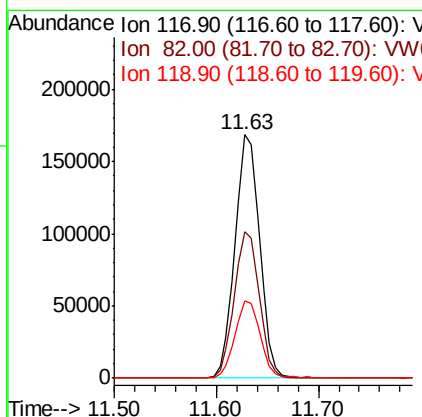
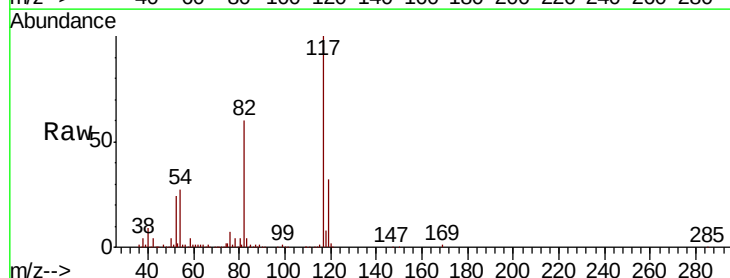
Instrument :  
MSVOA\_W  
ClientSampleId :

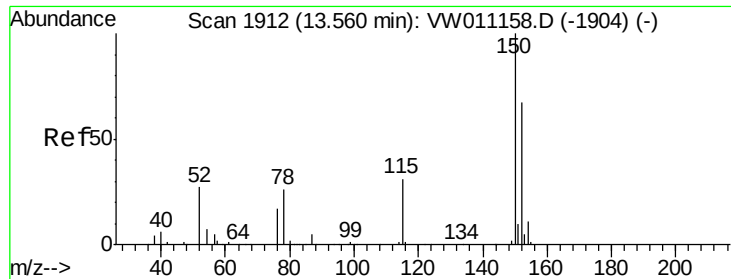
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 74.8  | 0.0   | 147.6 |
| 176     | 72.4  | 0.0   | 144.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. 0.00 min  
Lab File: VW011344.D  
Acq: 18 Jul 2019 19:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.0  | 48.9  | 73.3  |
| 119     | 31.5  | 25.0  | 37.6  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

Instrument :

MSVOA\_W

ClientSampleId :

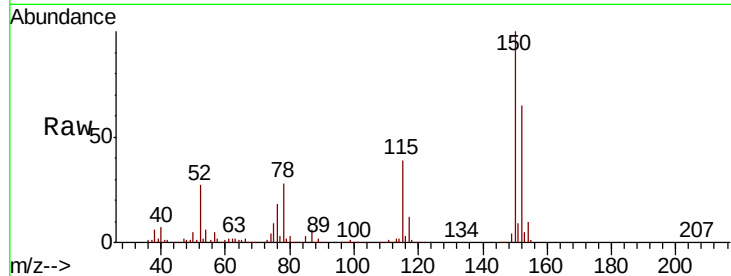
Tot Ion:152 Resp: 117867

Ion Ratio Lower Upper

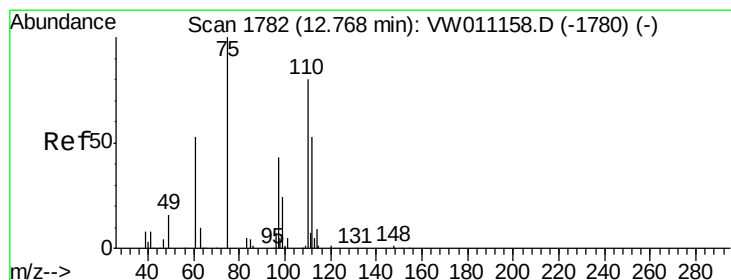
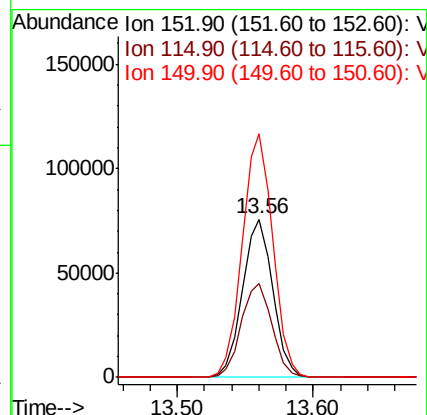
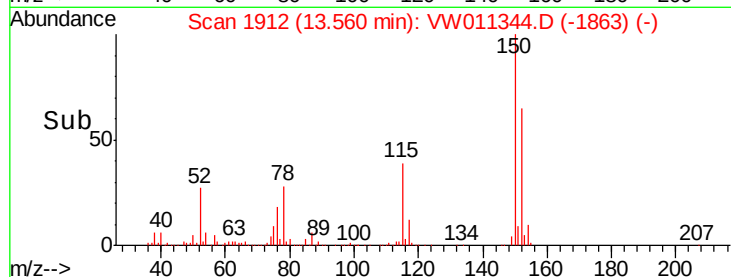
152 100

115 60.2 30.1 90.3

150 155.5 0.0 346.0



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: 53.563 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011344.D

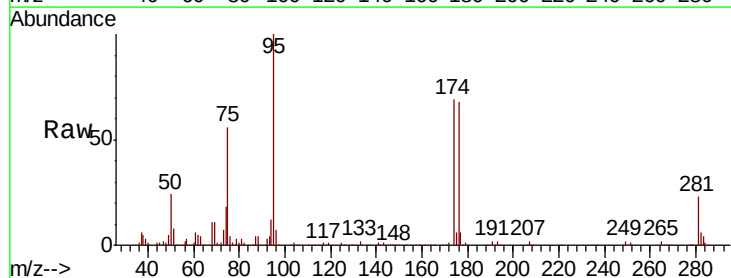
Acq: 18 Jul 2019 19:48

Tgt Ion: 75 Resp: 72959

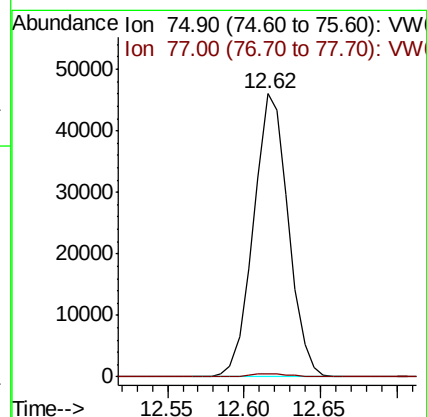
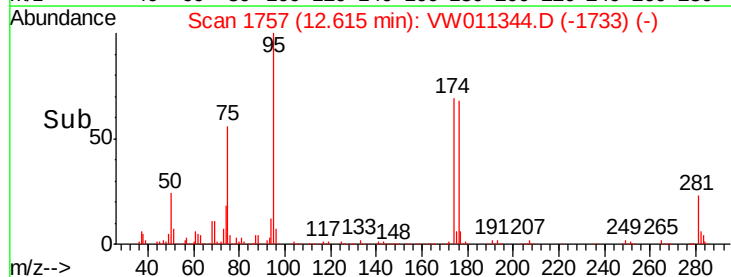
Ion Ratio Lower Upper

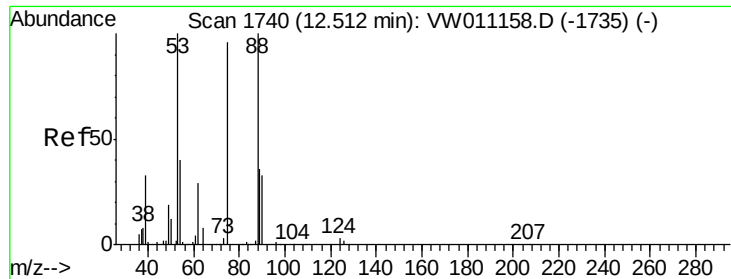
75 100

77 1.3 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: 121.150 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011344.D

Acq: 18 Jul 2019 19:48

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 75 Resp: 72959

Ion Ratio Lower Upper

75 100

53 0.1 89.8 134.6#

89 0.5 34.3 51.5#

