

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080319\  
 Data File : VW011641.D  
 Acq On : 03 Aug 2019 01:43  
 Operator : SY/VA  
 Sample : K4131-05  
 Misc : 5.86G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-D4-(0-1)

Quant Time: Aug 04 00:07:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 261520   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 433168   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 362389   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 132469   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 169012   | 56.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.56% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 133572   | 54.96 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.92% |      |
| 50) Toluene-d8              | 10.32  | 98  | 539474   | 54.22 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.44% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 165293   | 46.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.20%  |      |

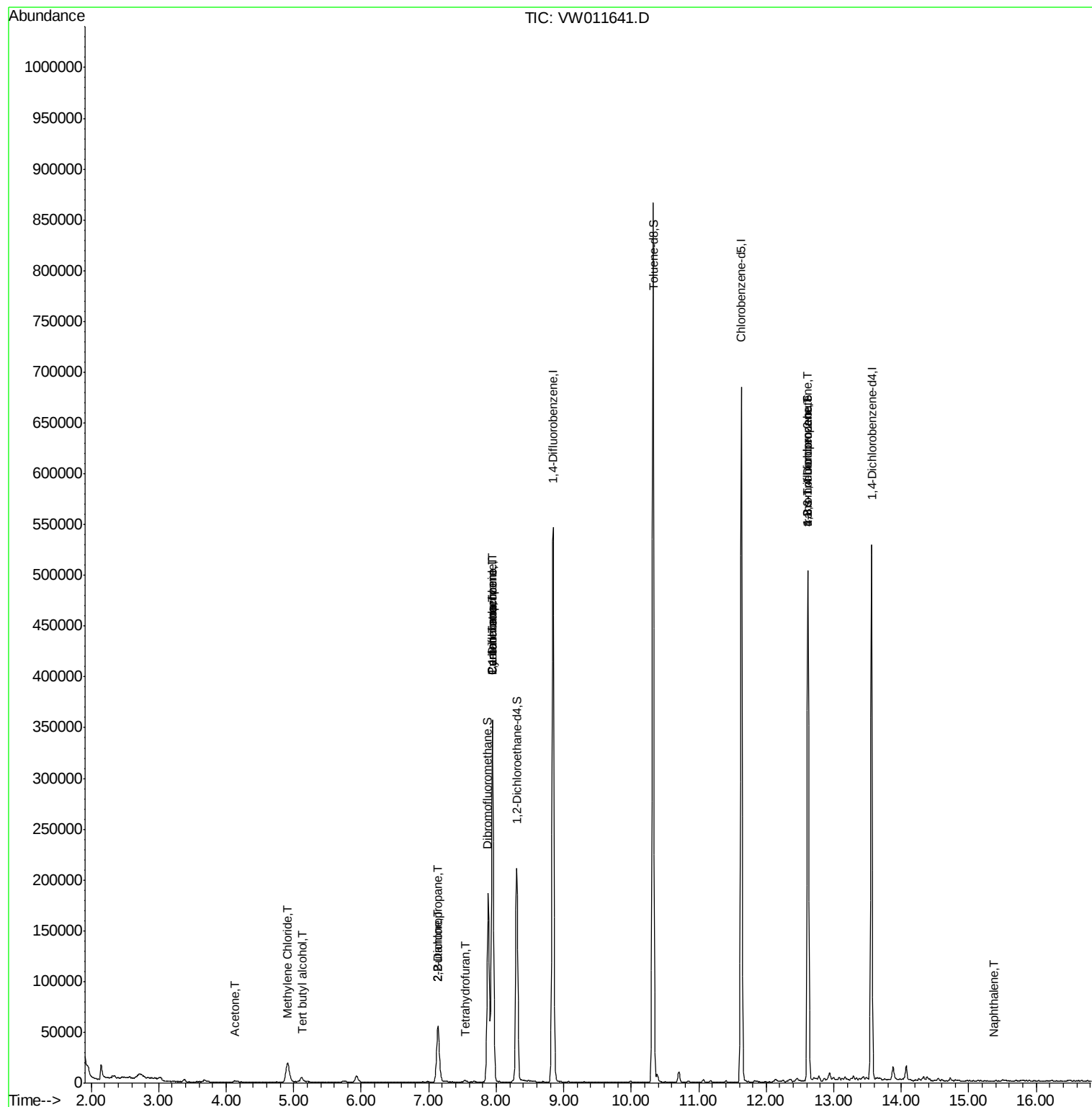
| Target Compounds               |       |     |       |         |        | Qvalue |
|--------------------------------|-------|-----|-------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.12  | 59  | 4256  | 1.479   | ug/l # | 72     |
| 16) Acetone                    | 4.14  | 43  | 3101  | 3.246   | ug/l   | 92     |
| 20) Methylene Chloride         | 4.91  | 84  | 14185 | 4.306   | ug/l   | 95     |
| 25) 2-Butanone                 | 7.14  | 43  | 3668  | 2.934   | ug/l # | 86     |
| 26) 2,2-Dichloropropane        | 7.13  | 77  | 3798  | 1.056   | ug/l # | 54     |
| 29) Tetrahydrofuran            | 7.55  | 42  | 1429  | 2.000   | ug/l # | 82     |
| 31) Cyclohexane                | 7.94  | 56  | 6606  | 1.177   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 22457 | 4.986   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 26301 | 6.821   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 87955 | 62.750  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 87955 | 144.617 | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128 | 455   | 2.149   | ug/l # | 69     |

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

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QLast Update : Sat Jul 27 00:23:30 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: VW011641.D

Acq: 03 Aug 2019 01:43

Instrument :

MSVOA\_W

ClientSampled :

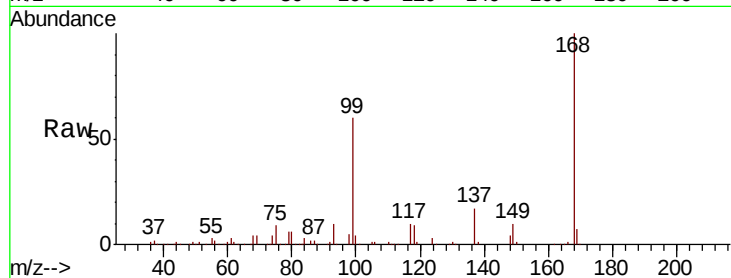
1S-D4-(0-1)

Tgt Ion:168 Resp: 261520

Ion Ratio Lower Upper

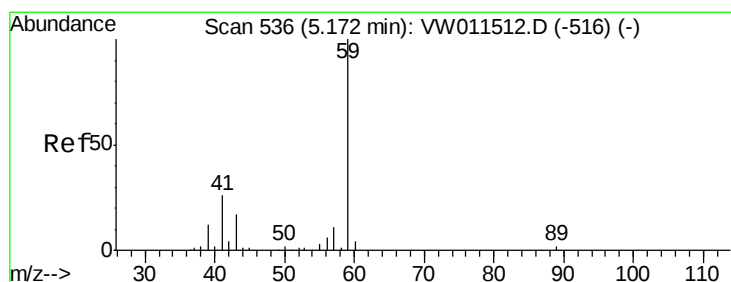
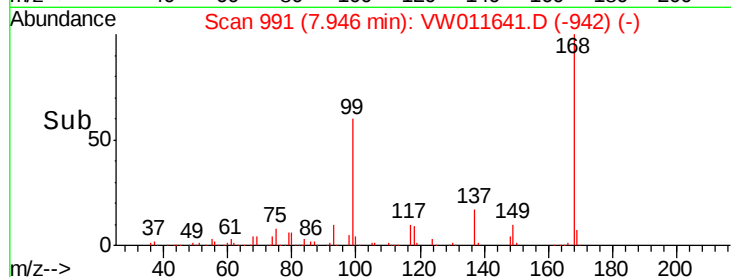
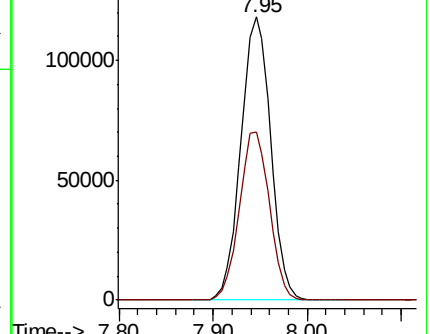
168 100

99 59.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.479 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW011641.D

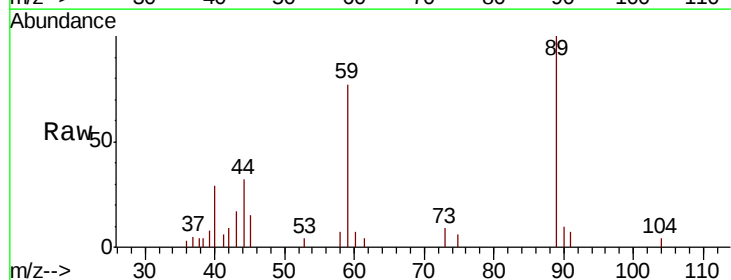
Acq: 03 Aug 2019 01:43

Tgt Ion: 59 Resp: 4256

Ion Ratio Lower Upper

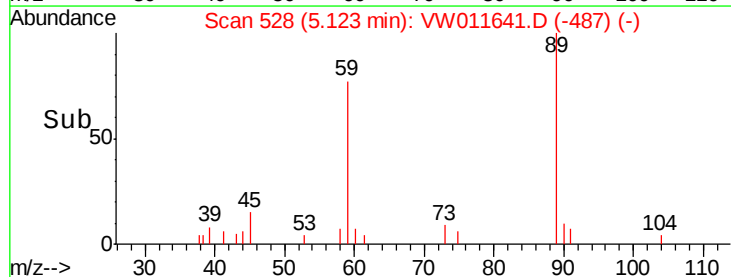
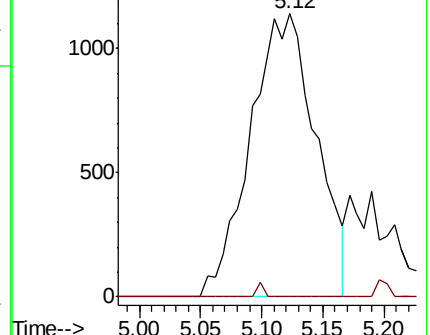
59 100

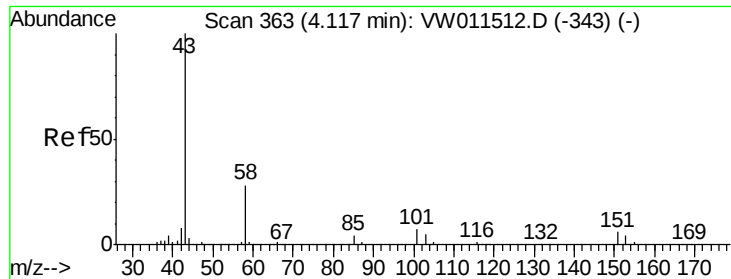
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 3.246 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011641.D

Acq: 03 Aug 2019 01:43

Instrument :

MSVOA\_W

ClientSampled :

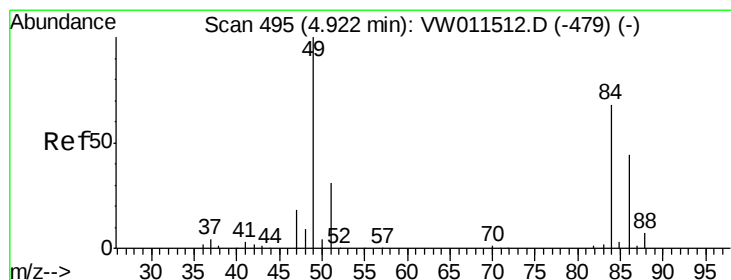
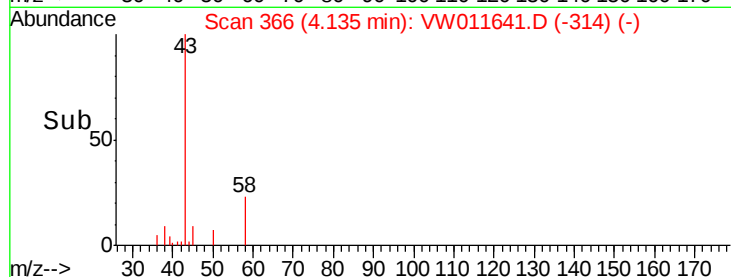
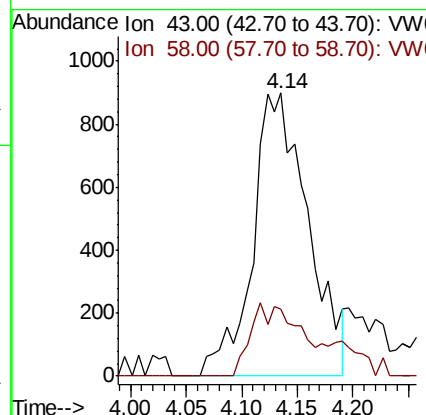
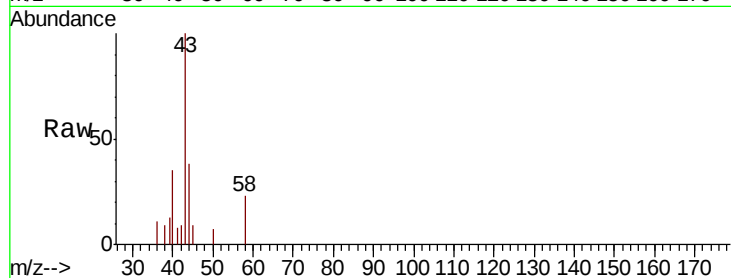
1S-D4-(0-1)

Tgt Ion: 43 Resp: 3101

Ion Ratio Lower Upper

43 100

58 23.5 22.3 33.5



#20

Methylene Chloride

Concen: 4.306 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011641.D

Acq: 03 Aug 2019 01:43

Tgt Ion: 84 Resp: 14185

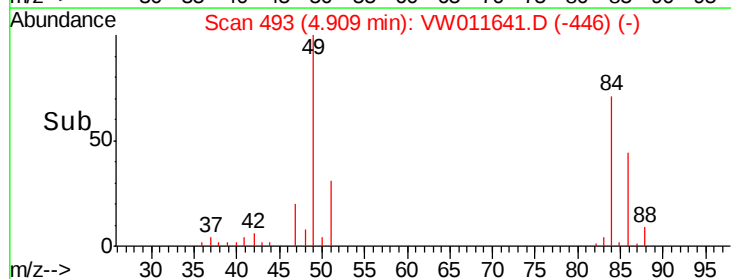
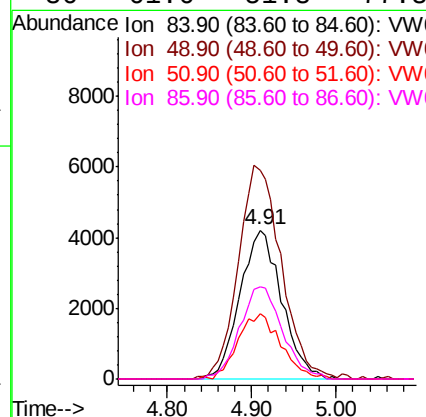
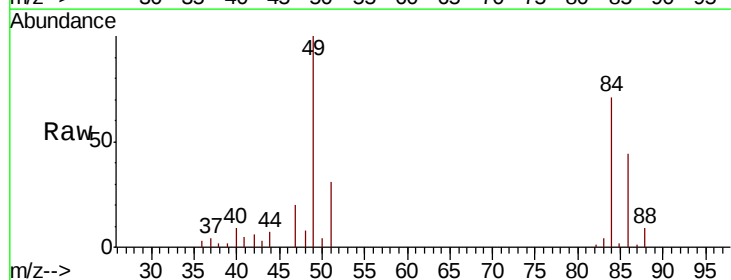
Ion Ratio Lower Upper

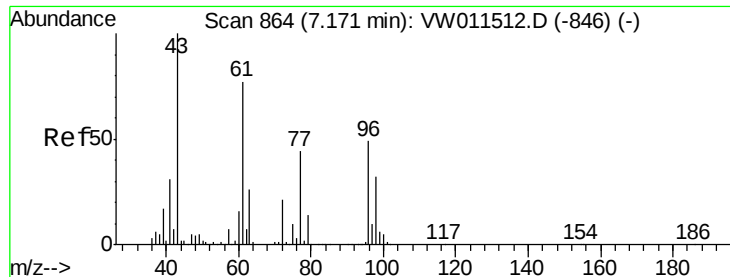
84 100

49 140.0 117.8 176.6

51 43.6 37.0 55.4

86 61.6 51.8 77.8

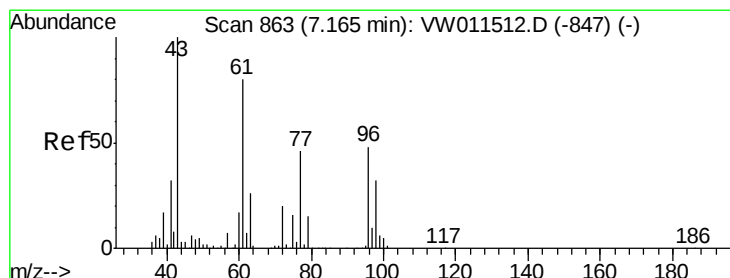
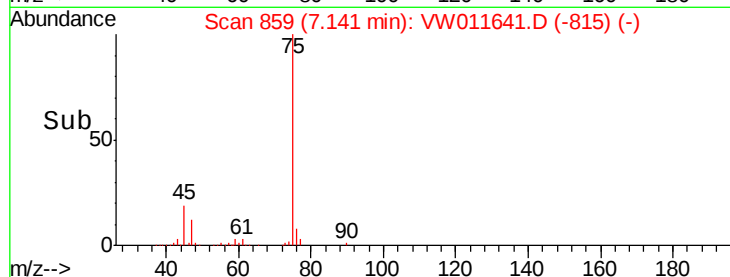
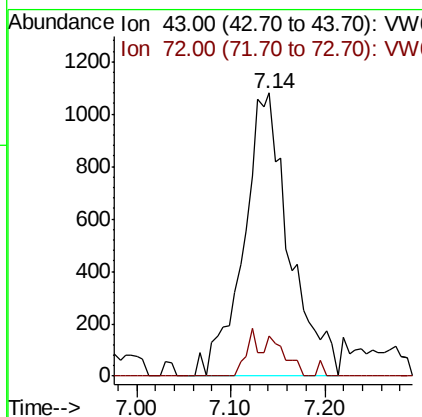
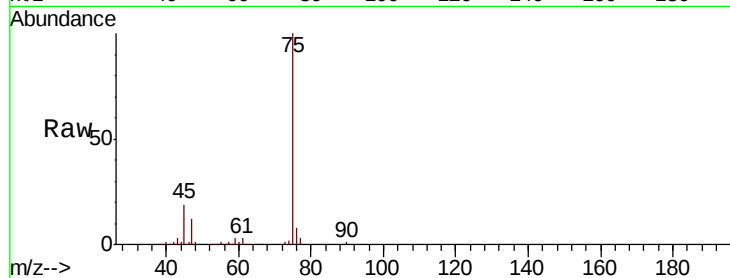




#25  
2-Butanone  
Concen: 2.934 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.03 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

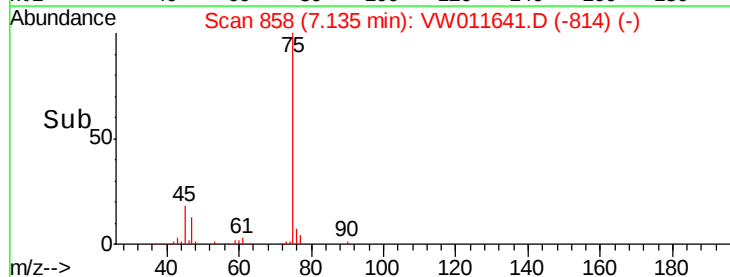
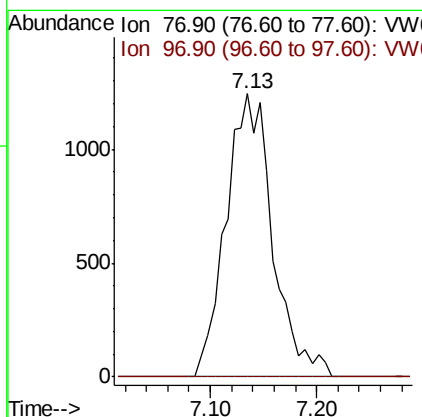
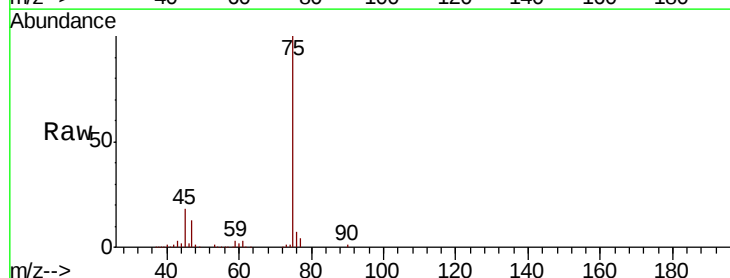
Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-D4-(0-1)

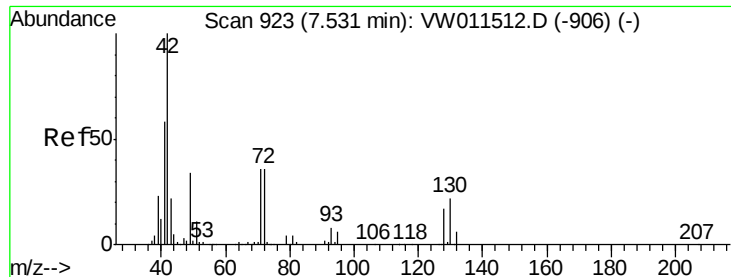
Tgt Ion: 43 Resp: 3668  
Ion Ratio Lower Upper  
43 100  
72 14.1 16.6 24.8#



#26  
2,2-Dichloropropane  
Concen: 1.056 ug/l  
RT: 7.13 min Scan# 858  
Delta R.T. -0.03 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Tgt Ion: 77 Resp: 3798  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.8 32.4#





#29

Tetrahydrofuran

Concen: 2.000 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.02 min

Lab File: VW011641.D

Acq: 03 Aug 2019 01:43

Instrument :

MSVOA\_W

ClientSampleId :

1S-D4-(0-1)

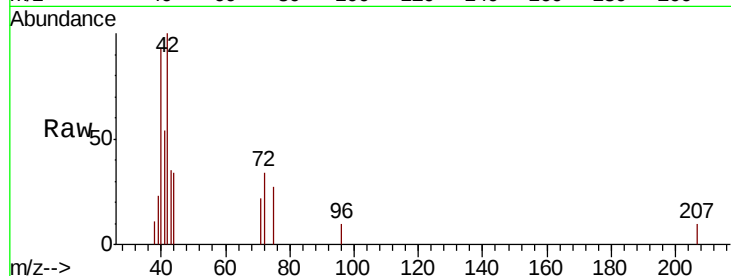
Tgt Ion: 42 Resp: 1429

Ion Ratio Lower Upper

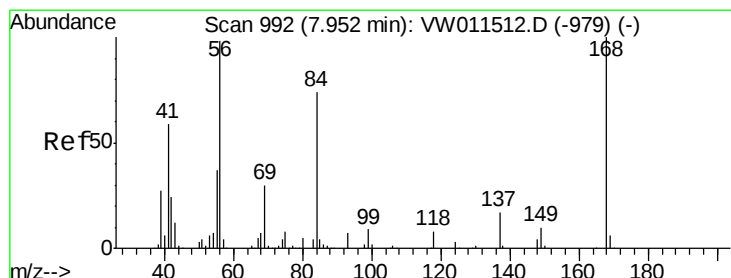
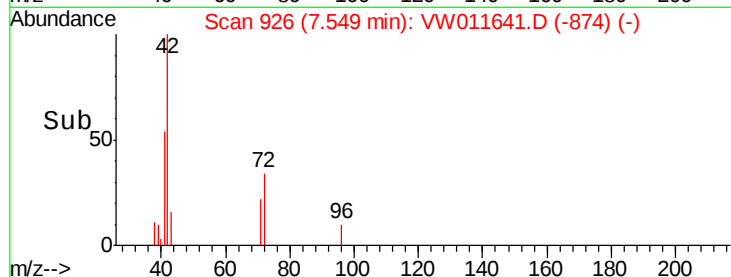
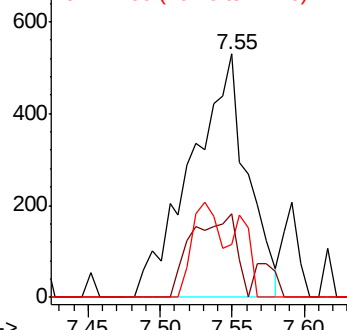
42 100

72 27.2 27.1 40.7

71 18.9 26.2 39.4#



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: 1.177 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011641.D

Acq: 03 Aug 2019 01:43

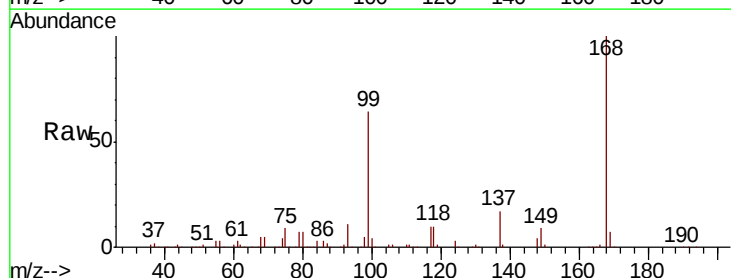
Tgt Ion: 56 Resp: 6606

Ion Ratio Lower Upper

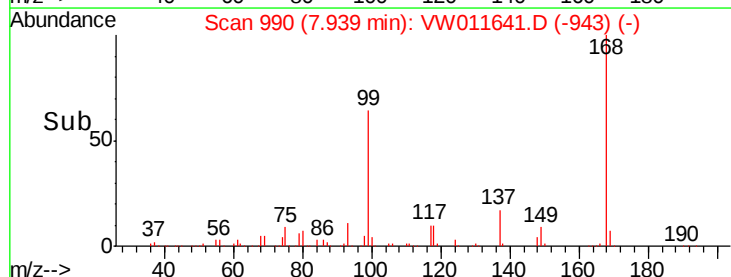
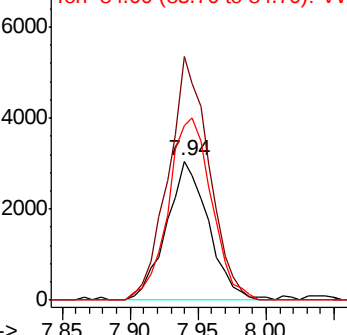
56 100

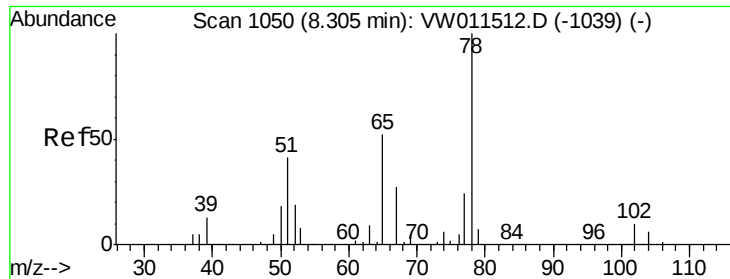
69 175.5 24.3 36.5#

84 125.8 60.4 90.6#



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

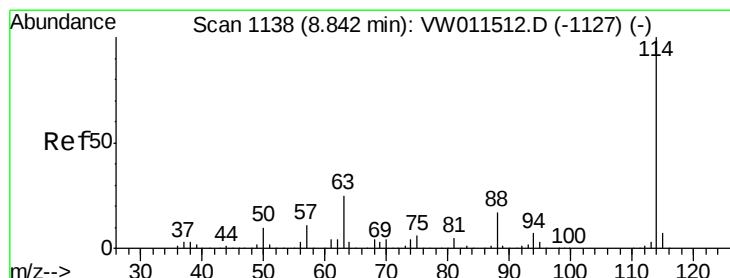
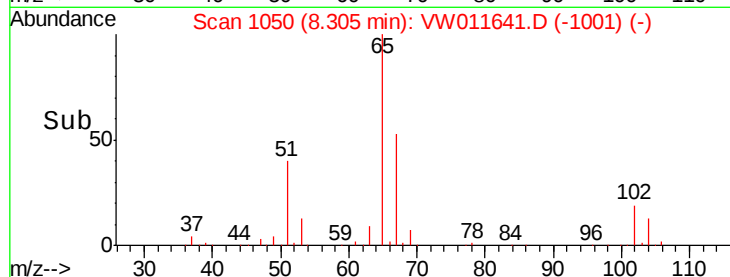
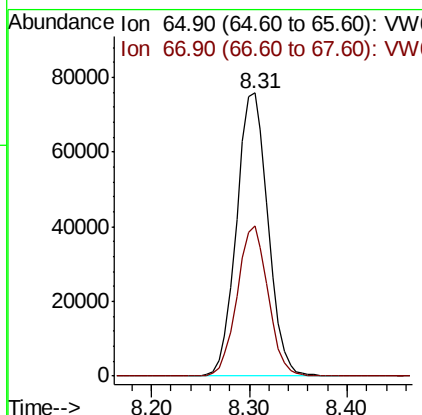
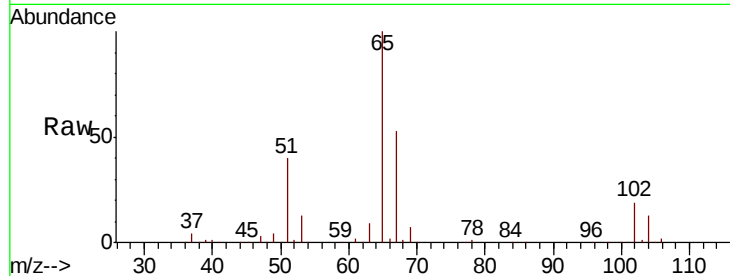




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.281 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW011641.D  
 Acq: 03 Aug 2019 01:43

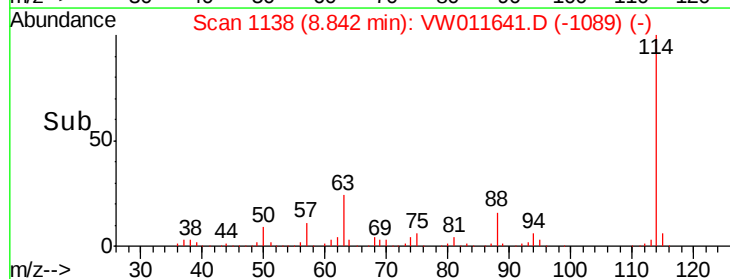
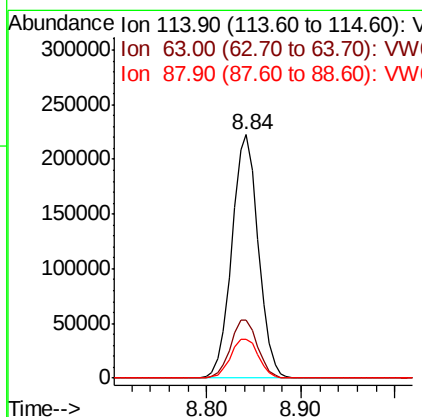
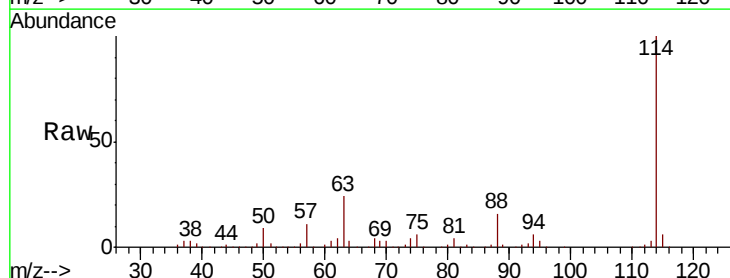
Instrument :  
 MSVOA\_W  
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 1S-D4-(0-1)

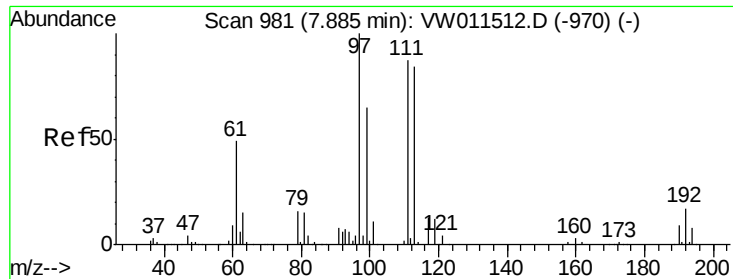
Tgt Ion: 65 Resp: 169012  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011641.D  
 Acq: 03 Aug 2019 01:43

Tgt Ion: 114 Resp: 433168  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 0.0 49.2  
 88 15.8 0.0 33.8

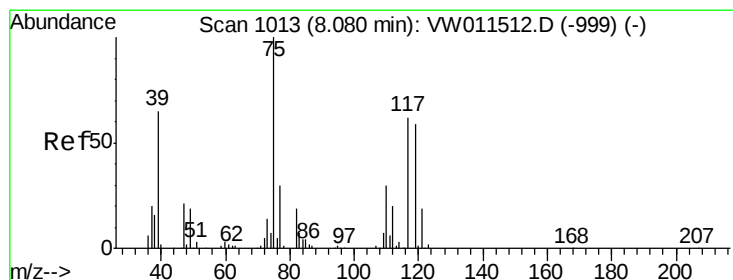
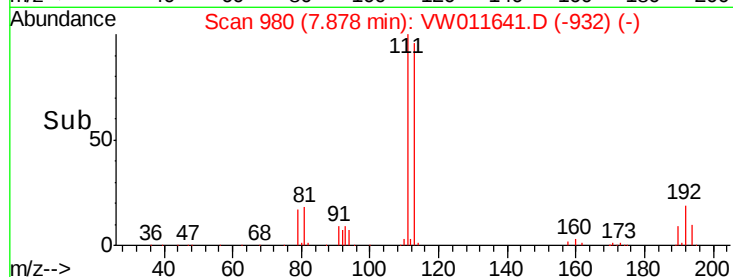
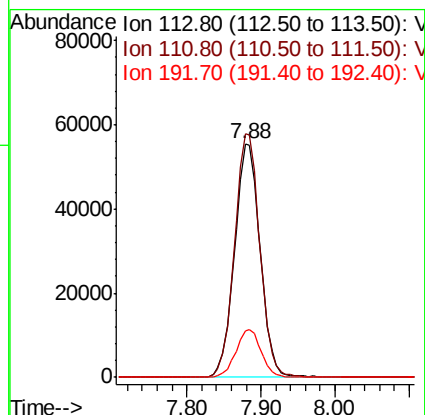
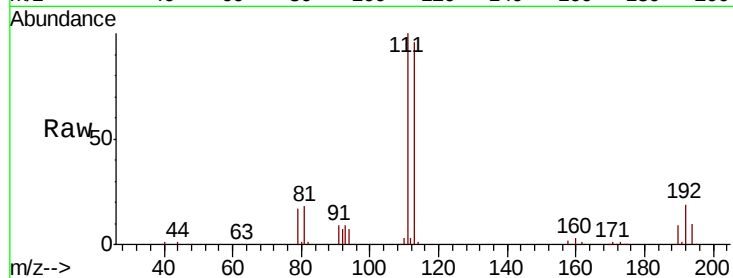




#35  
 Dibromofluoromethane  
 Concen: 54.965 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW011641.D  
 Acq: 03 Aug 2019 01:43

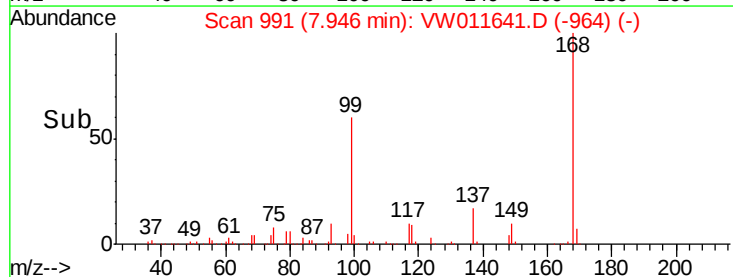
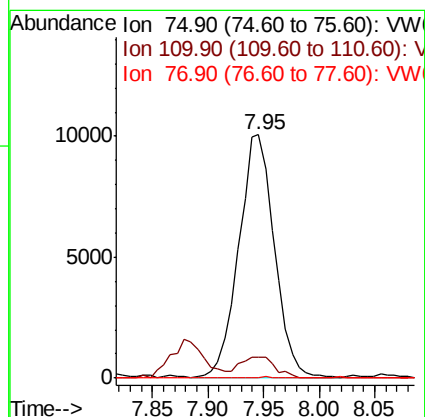
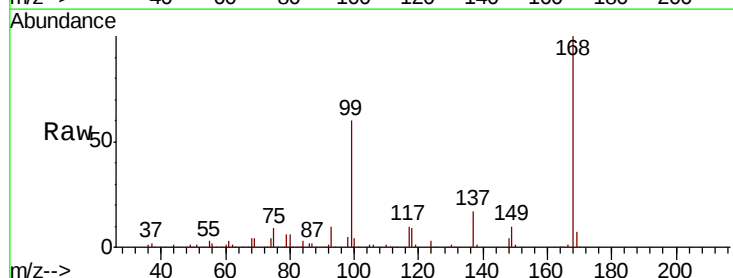
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-D4-(0-1)

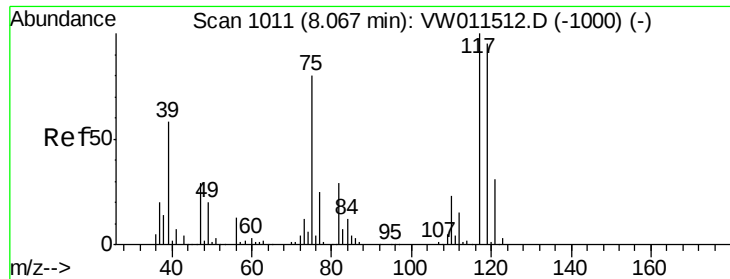
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.2 | 82.7  | 124.1 |
| 192     | 20.1  | 16.1  | 24.1  |



#36  
 1,1-Dichloropropene  
 Concen: 4.986 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011641.D  
 Acq: 03 Aug 2019 01:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.8   | 15.6  | 46.8# |
| 77      | 0.1   | 24.3  | 36.5# |

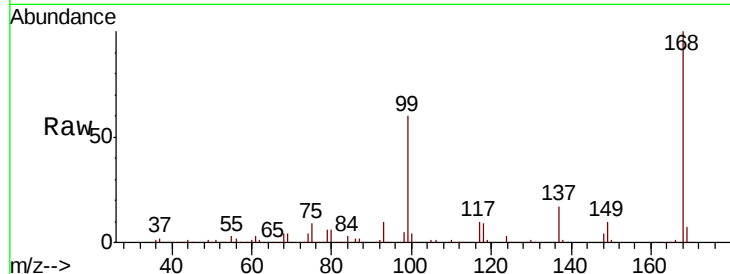




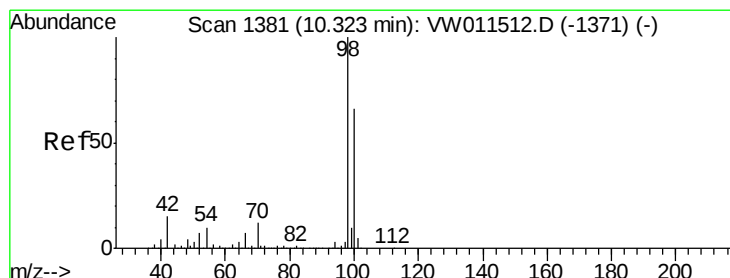
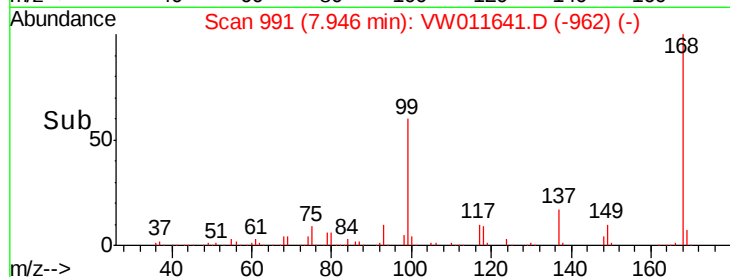
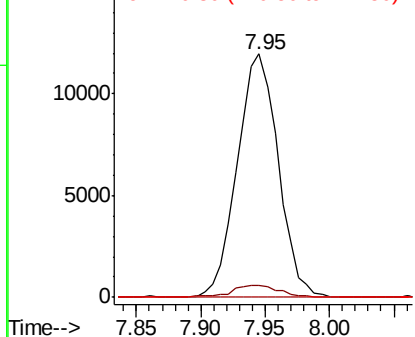
#38  
Carbon Tetrachloride  
Concen: 6.821 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-D4-(0-1)

Tgt Ion: 117 Resp: 26301  
Ion Ratio Lower Upper  
117 100  
119 5.0 75.8 113.6#  
121 0.0 24.7 37.1#

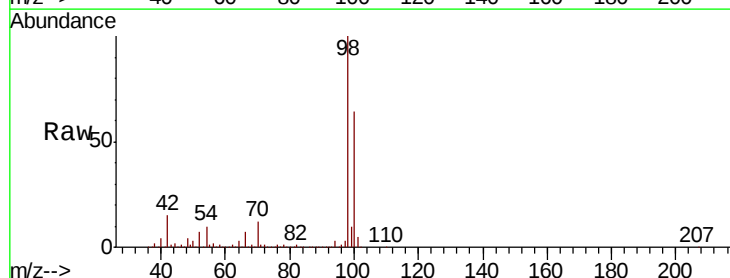


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

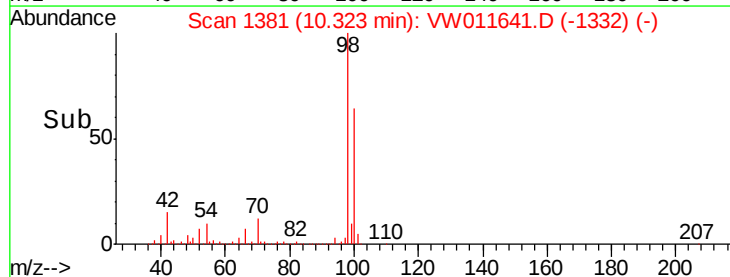
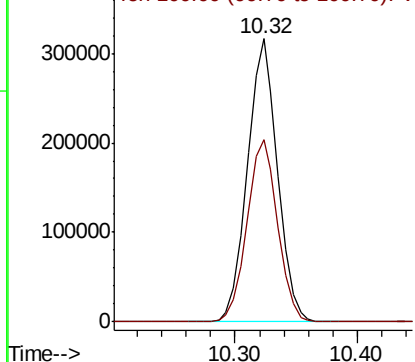


#50  
Toluene-d8  
Concen: 54.220 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Tgt Ion: 98 Resp: 539474  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

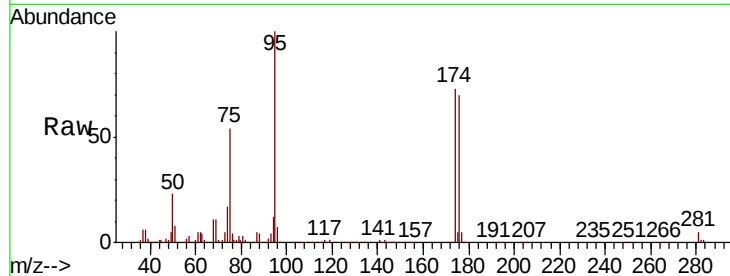




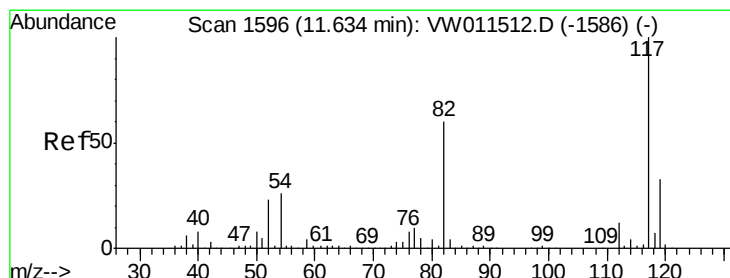
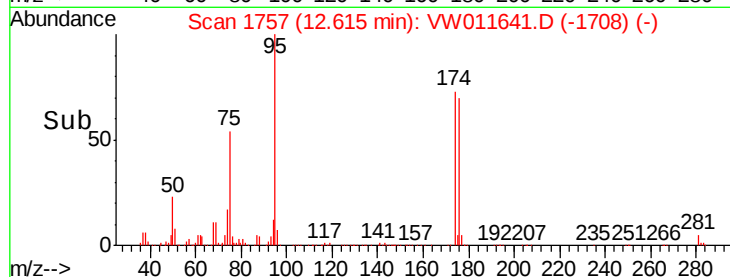
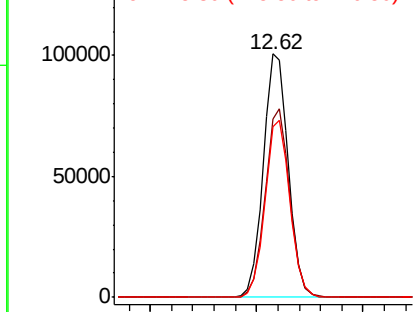
#62  
4-Bromofluorobenzene  
Concen: 46.597 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-D4-(0-1)

Tgt Ion: 95 Resp: 165293  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 150.2  
176 72.3 0.0 144.4

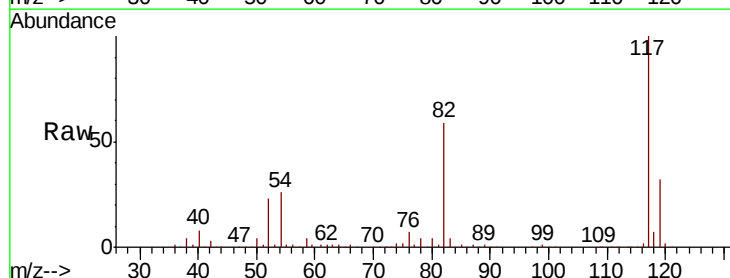


Abundance Ion 94.90 (94.60 to 95.60): VW  
Ion 173.80 (173.50 to 174.50): VW  
Ion 175.80 (175.50 to 176.50): VW

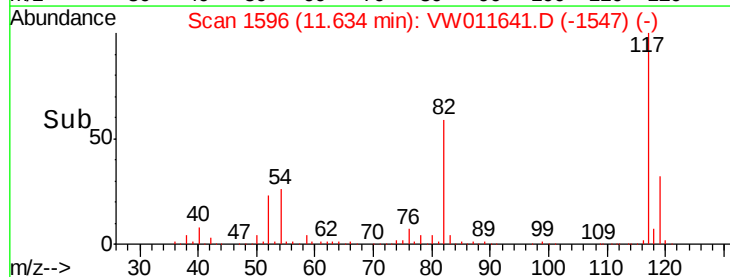
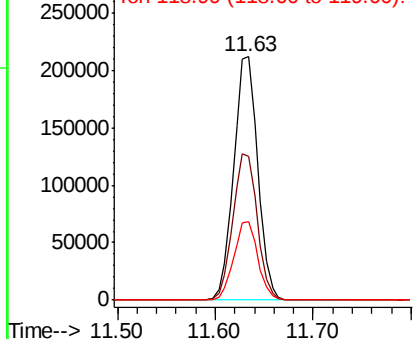


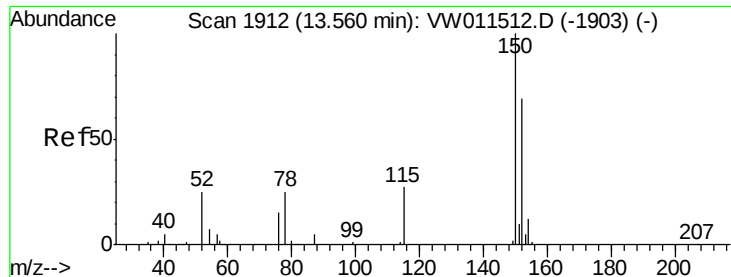
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Tgt Ion: 117 Resp: 362389  
Ion Ratio Lower Upper  
117 100  
82 59.0 47.9 71.9  
119 32.3 26.2 39.2



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: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011641.D

Acq: 03 Aug 2019 01:43

Instrument :

MSVOA\_W

ClientSampleId :

1S-D4-(0-1)

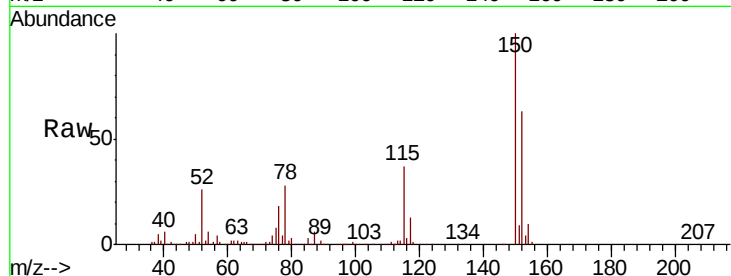
Tgt Ion:152 Resp: 132469

Ion Ratio Lower Upper

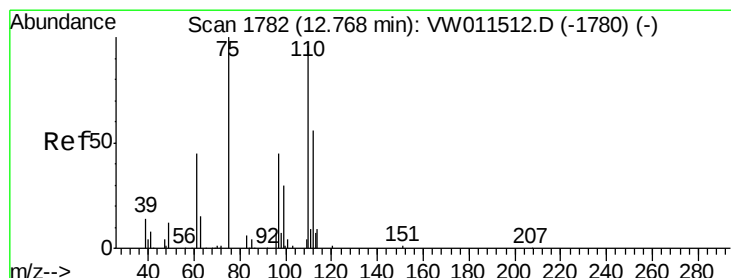
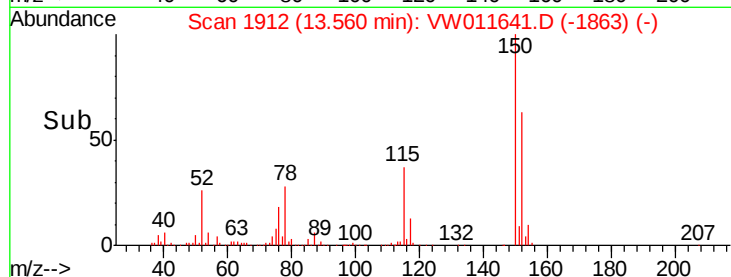
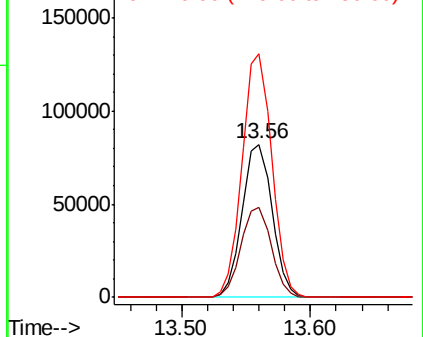
152 100

115 59.5 30.5 91.5

150 157.7 0.0 352.6



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: 62.750 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011641.D

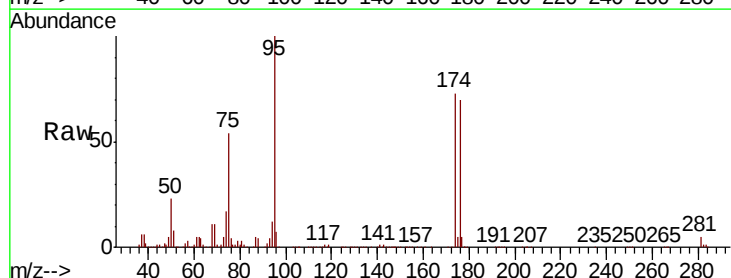
Acq: 03 Aug 2019 01:43

Tgt Ion: 75 Resp: 87955

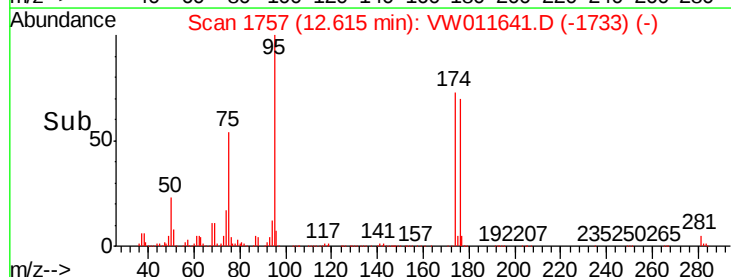
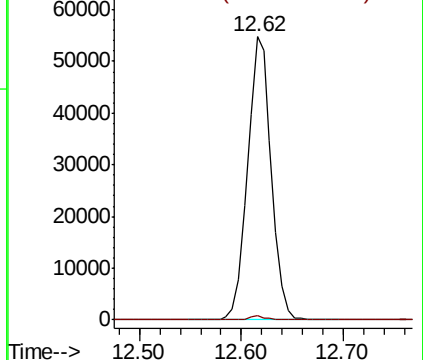
Ion Ratio Lower Upper

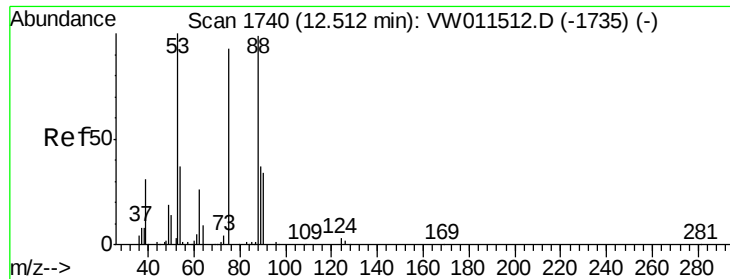
75 100

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

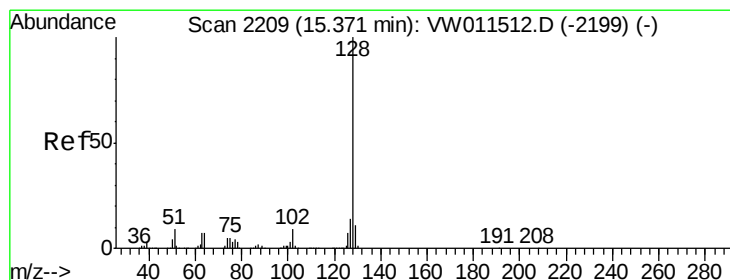
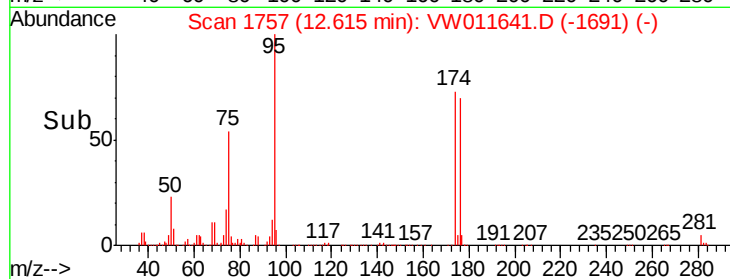
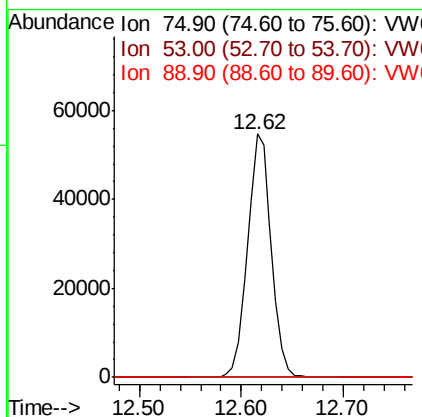
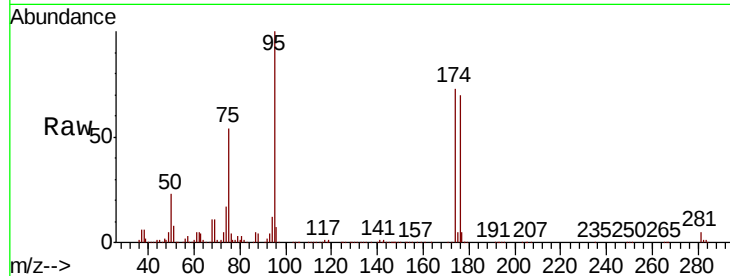




#81  
trans-1,4-Dichloro-2-butene  
Concen: 144.617 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-D4-(0-1)

Tgt Ion: 75 Resp: 87955  
Ion Ratio Lower Upper  
75 100  
53 0.2 88.0 132.0#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: 2.149 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW011641.D  
Acq: 03 Aug 2019 01:43

Tgt Ion: 128 Resp: 455  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 13.0#

