

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080419\  
 Data File : VW011672.D  
 Acq On : 03 Aug 2019 17:56  
 Operator : SY/VA  
 Sample : K4152-13  
 Misc : 5.32G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-E2-(0-1)

Quant Time: Aug 04 01:45:51 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  | 213390   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 359812   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 292475   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 98868    | 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   | 145080   | 59.21 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.42% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 112417   | 55.69 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.38% |          |
| 50) Toluene-d8              | 10.32 | 98   | 437686   | 52.96 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 105.92% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 127515   | 43.28 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 86.56%  |          |

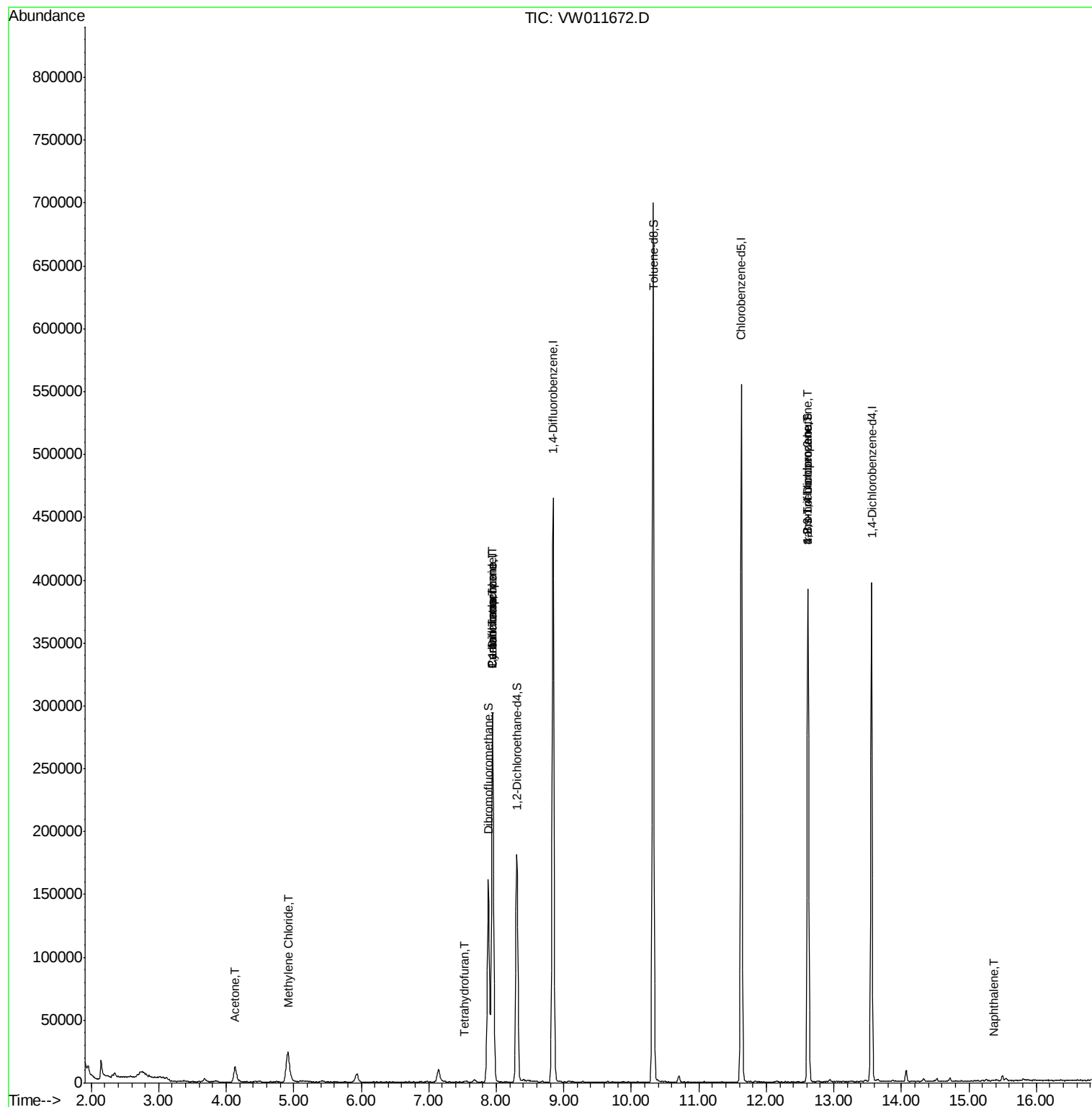
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.19  | 59   | 371      | Below Cal | #      | 89     |
| 16) Acetone                    | 4.14  | 43   | 23612    | 30.294    | ug/l   | 100    |
| 20) Methylene Chloride         | 4.92  | 84   | 18607    | 6.922     | ug/l   | 98     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 896      | 1.537     | ug/l # | 74     |
| 31) Cyclohexane                | 7.94  | 56   | 5406     | 1.180     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 18300    | 4.891     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 21675    | 6.767     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 68725    | 65.694    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 68725    | 151.402   | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 248      | 2.127     | ug/l # | 80     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW080419\  
Data File : VW011672.D  
Acq On : 03 Aug 2019 17:56  
Operator : SY/VA  
Sample : K4152-13  
Misc : 5.32G/5ML/MSVOA\_W/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-E2-(0-1)

Quant Time: Aug 04 01:45:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
Quant Title : SW846 8260  
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: VW011672.D

Acq: 03 Aug 2019 17:56

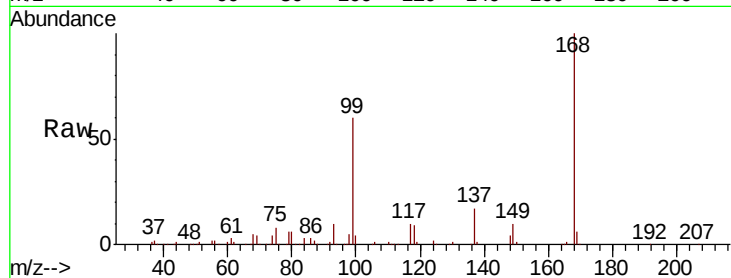
Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-E2-(0-1)

Tgt Ion: 168 Resp: 213390

Ion Ratio Lower Upper

168 100

99 60.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

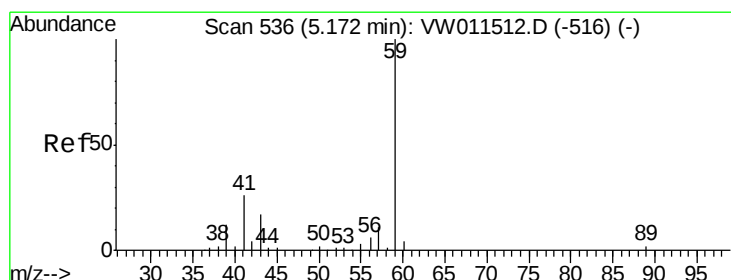
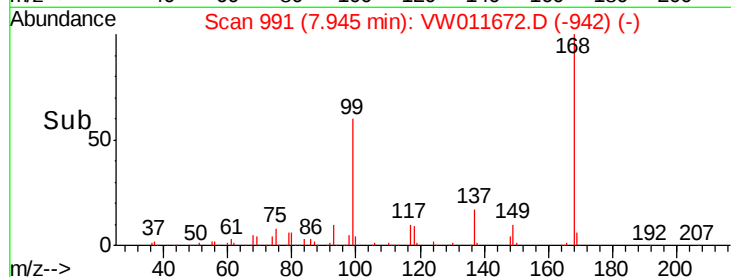
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 539

Delta R.T. 0.02 min

Lab File: VW011672.D

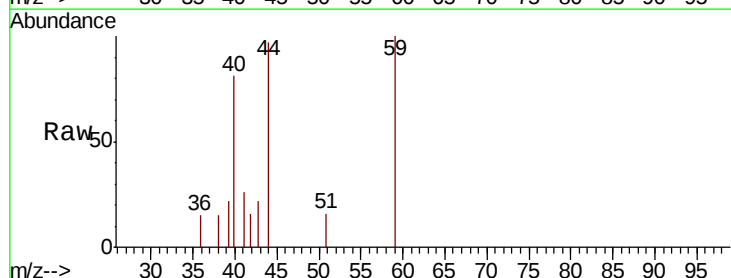
Acq: 03 Aug 2019 17:56

Tgt Ion: 59 Resp: 371

Ion Ratio Lower Upper

59 100

57 14.6 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

400

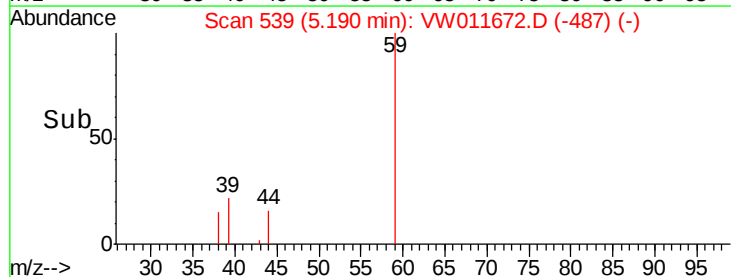
300

200

100

0

Time--> 5.14 5.16 5.18 5.20 5.22





#16

Acetone

Concen: 30.294 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011672.D

Acq: 03 Aug 2019 17:56

Instrument :

MSVOA\_W

ClientSampleId :

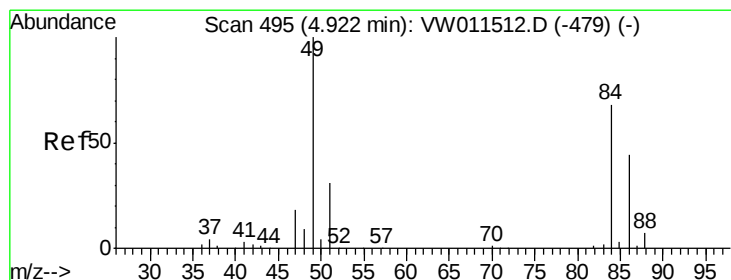
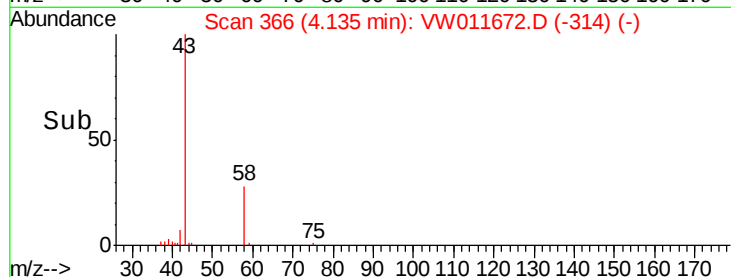
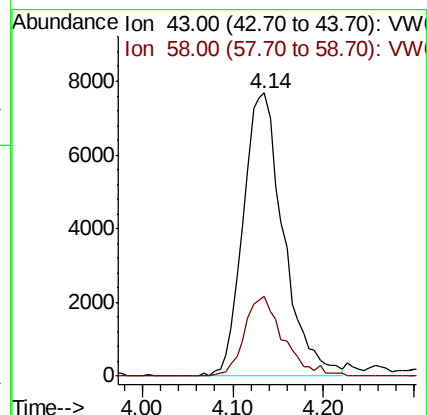
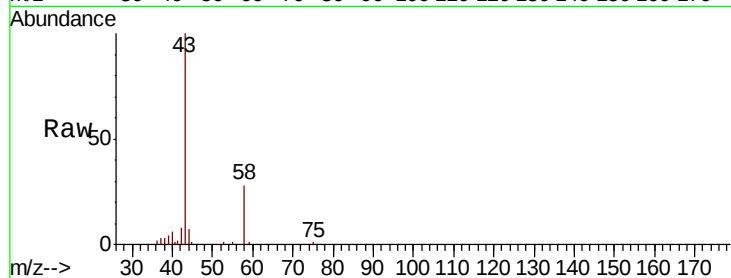
2S-E2-(0-1)

Tgt Ion: 43 Resp: 23612

Ion Ratio Lower Upper

43 100

58 28.2 22.3 33.5



#20

Methylene Chloride

Concen: 6.922 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW011672.D

Acq: 03 Aug 2019 17:56

Tgt Ion: 84 Resp: 18607

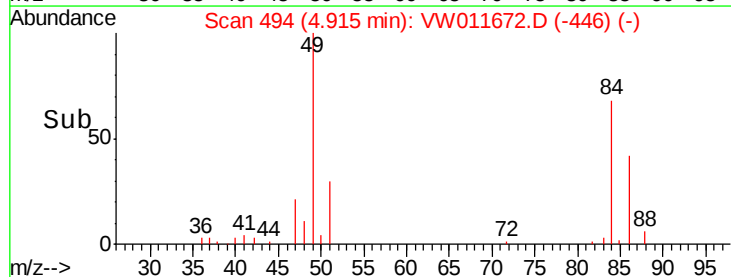
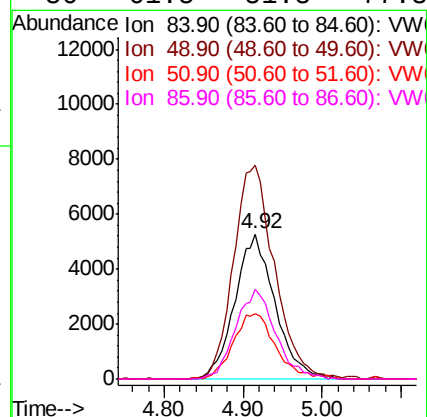
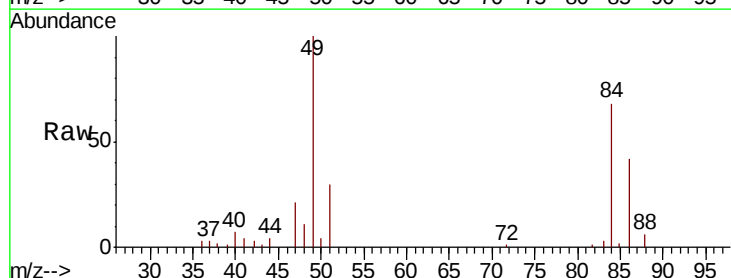
Ion Ratio Lower Upper

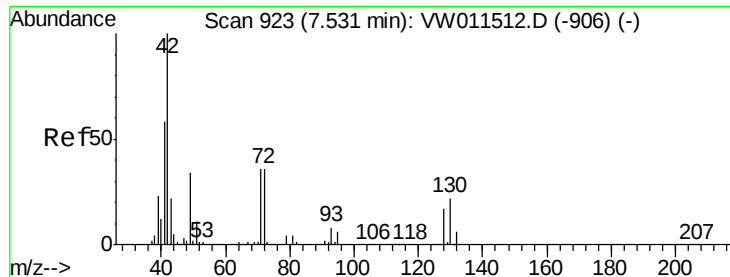
84 100

49 146.5 117.8 176.6

51 45.0 37.0 55.4

86 61.5 51.8 77.8

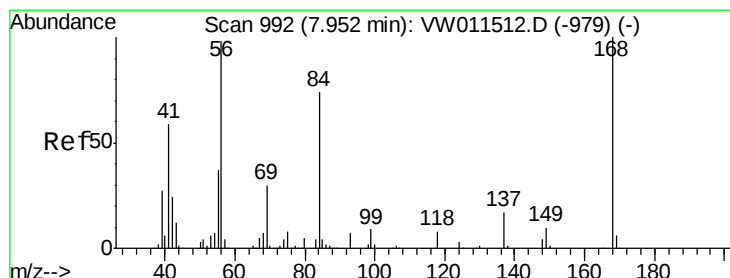
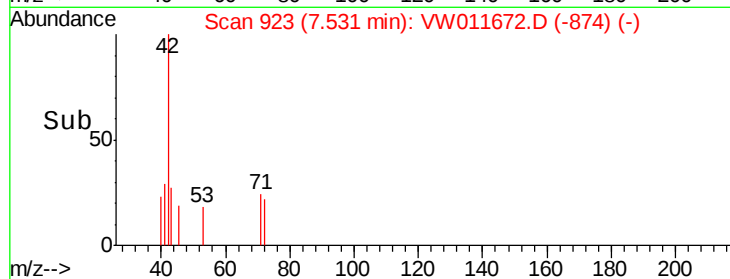
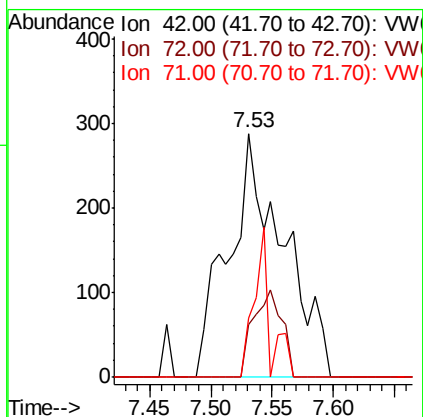
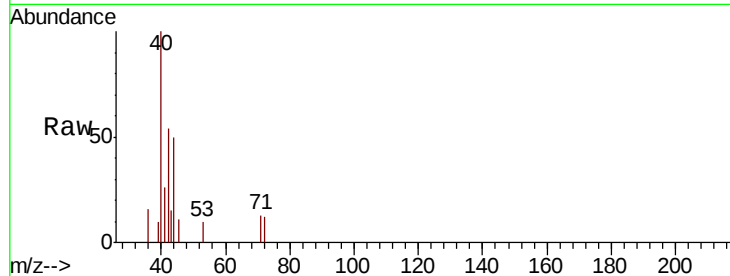




#29  
Tetrahydrofuran  
Concen: 1.537 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW011672.D  
Acq: 03 Aug 2019 17:56

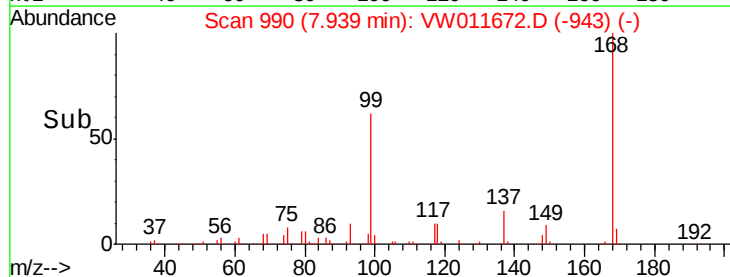
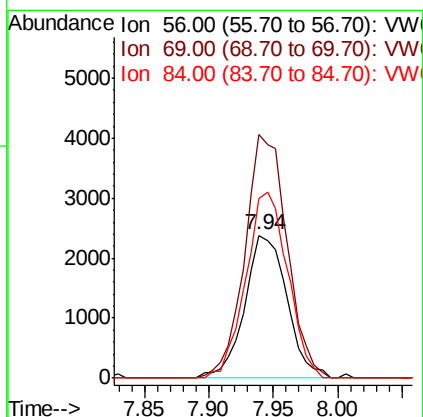
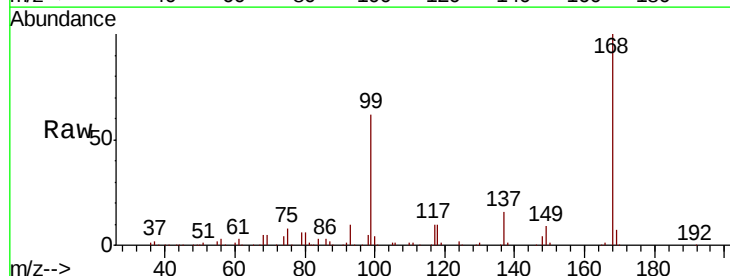
Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-E2-(0-1)

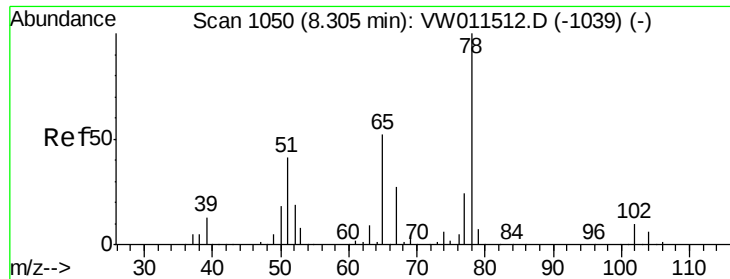
Tgt Ion: 42 Resp: 896  
Ion Ratio Lower Upper  
42 100  
72 18.8 27.1 40.7#  
71 18.1 26.2 39.4#



#31  
Cyclohexane  
Concen: 1.180 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW011672.D  
Acq: 03 Aug 2019 17:56

Tgt Ion: 56 Resp: 5406  
Ion Ratio Lower Upper  
56 100  
69 170.7 24.3 36.5#  
84 125.8 60.4 90.6#

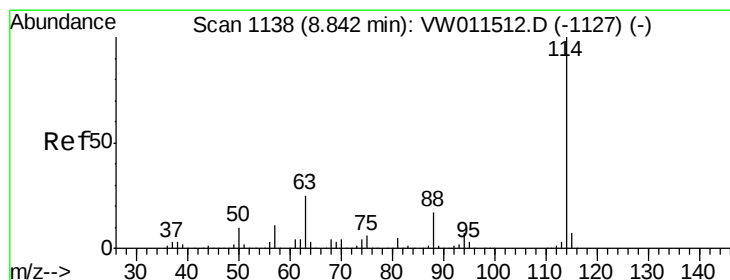
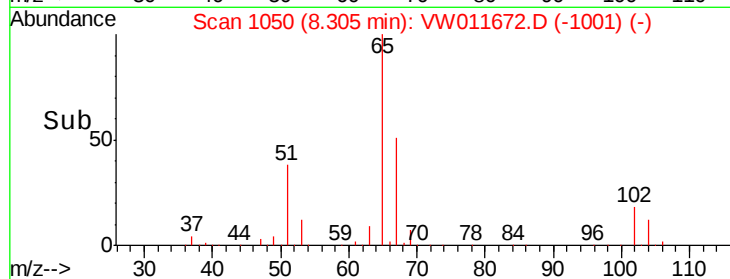
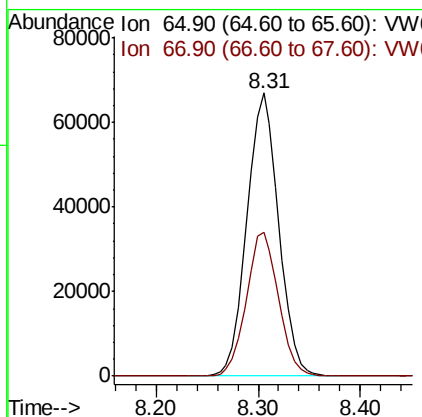
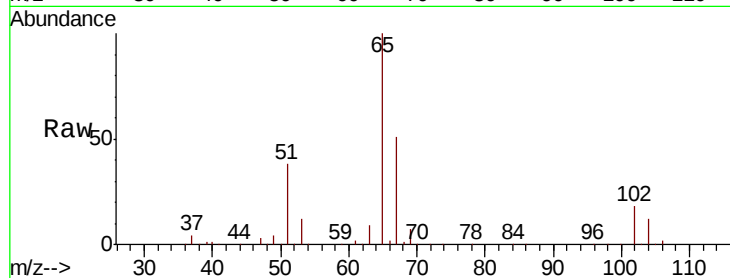




#33  
 1,2-Dichloroethane-d4  
 Concen: 59.209 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011672.D  
 Acq: 03 Aug 2019 17:56

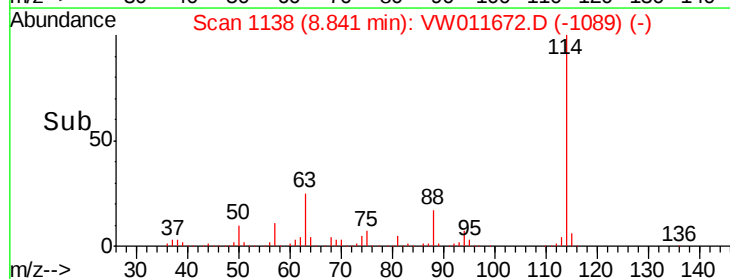
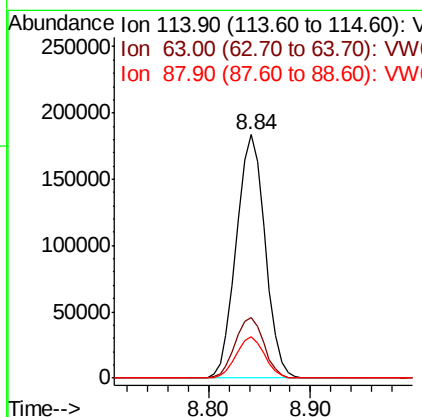
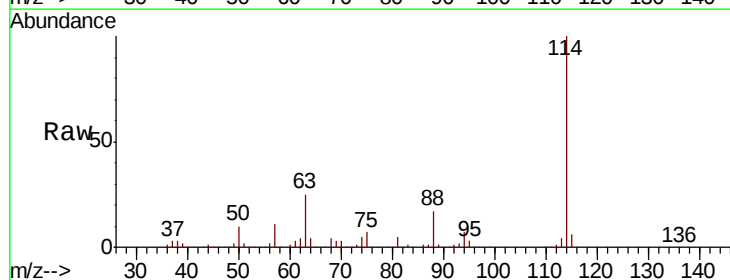
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-E2-(0-1)

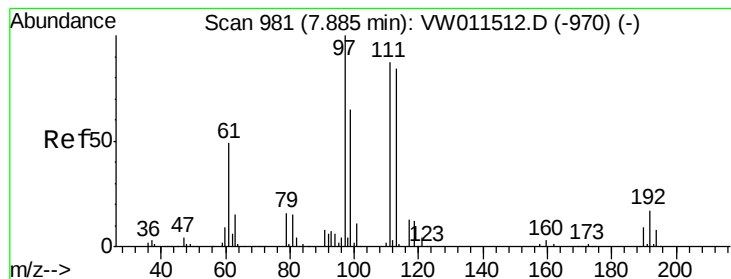
Tgt Ion: 65 Resp: 145080  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011672.D  
 Acq: 03 Aug 2019 17:56

Tgt Ion: 114 Resp: 359812  
 Ion Ratio Lower Upper  
 114 100  
 63 24.9 0.0 49.2  
 88 17.2 0.0 33.8





#35

Dibromofluoromethane

Concen: 55.690 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011672.D

Acq: 03 Aug 2019 17:56

Instrument :

MSVOA\_W

ClientSampleId :

2S-E2-(0-1)

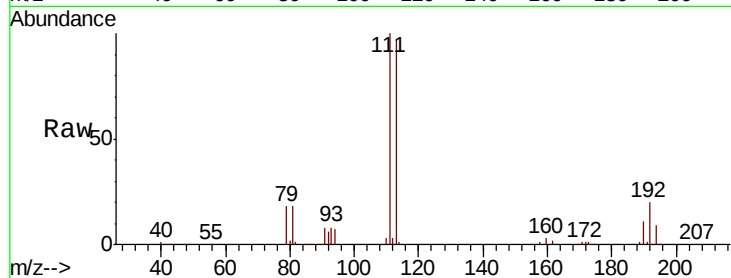
Tgt Ion: 113 Resp: 112417

Ion Ratio Lower Upper

113 100

111 104.3 82.7 124.1

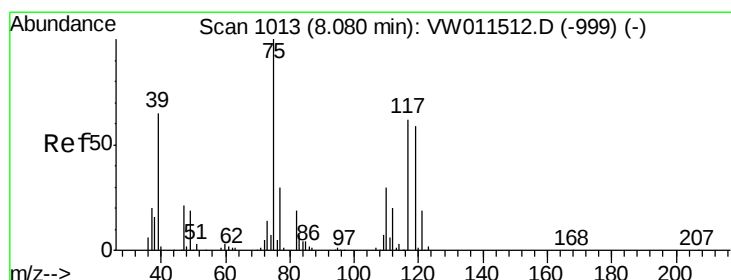
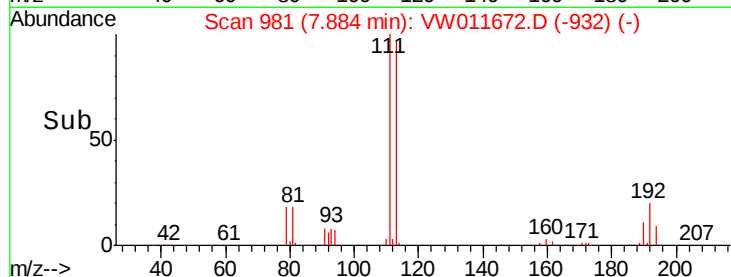
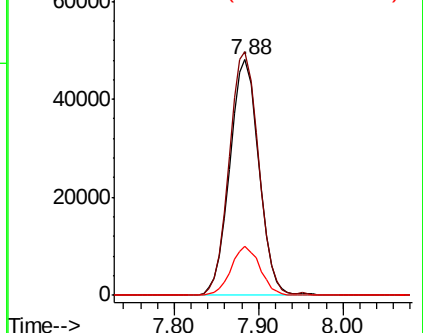
192 20.5 16.1 24.1



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: 4.891 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011672.D

Acq: 03 Aug 2019 17:56

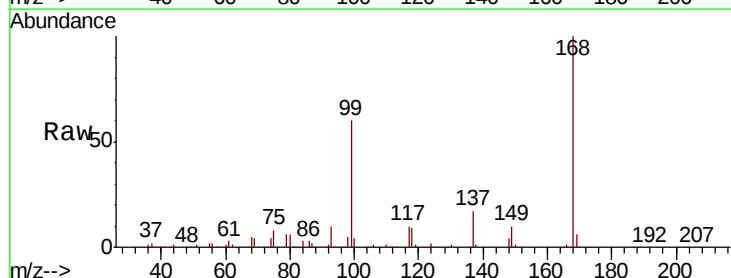
Tgt Ion: 75 Resp: 18300

Ion Ratio Lower Upper

75 100

110 9.2 15.6 46.8#

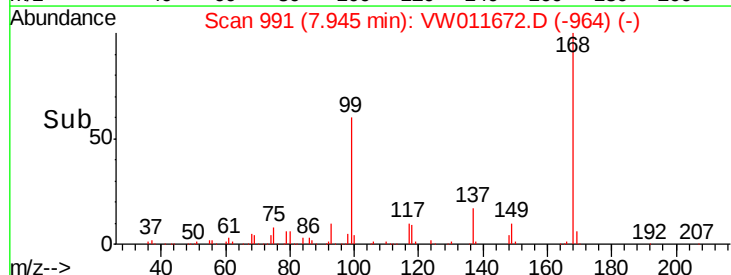
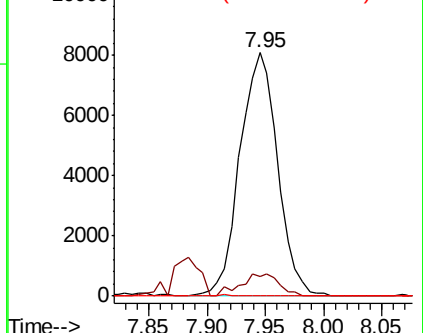
77 0.0 24.3 36.5#

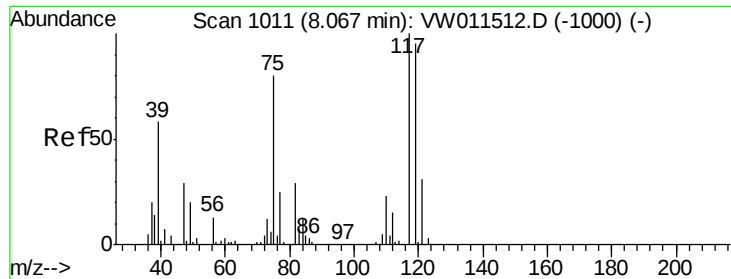


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

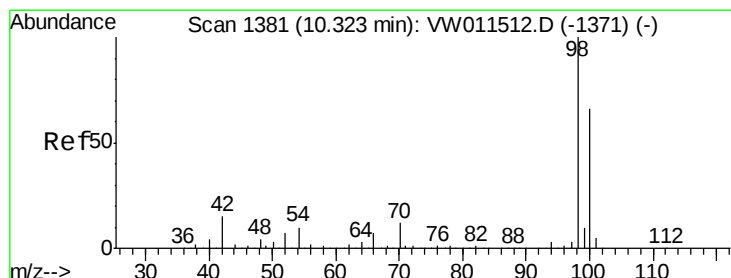
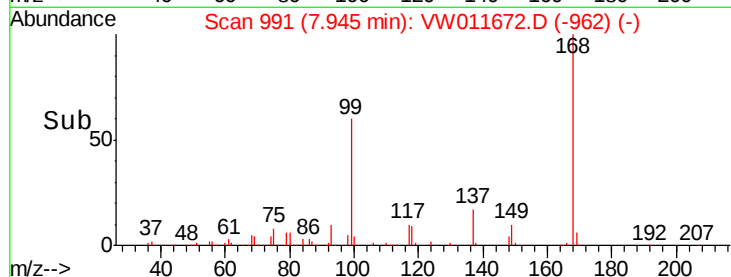
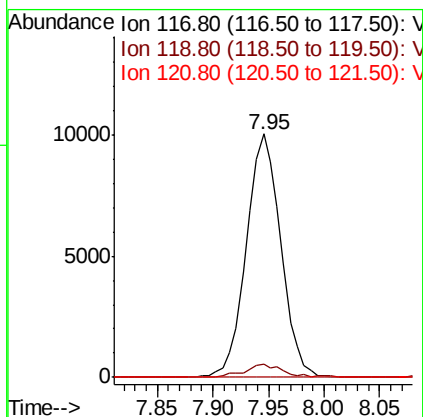
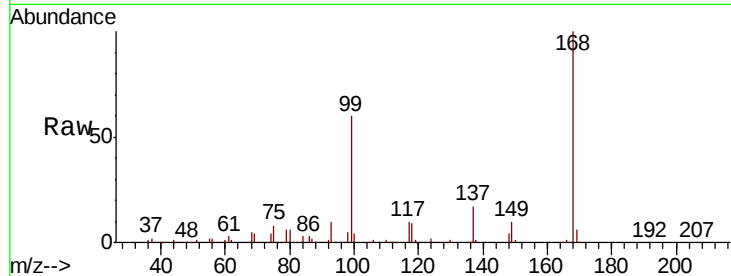




#38  
Carbon Tetrachloride  
Concen: 6.767 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW011672.D  
Acq: 03 Aug 2019 17:56

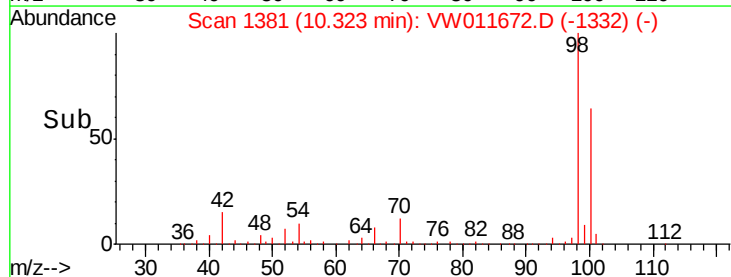
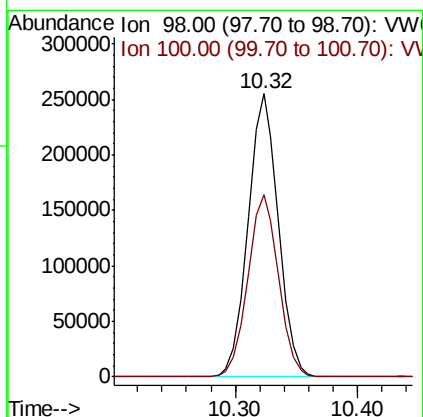
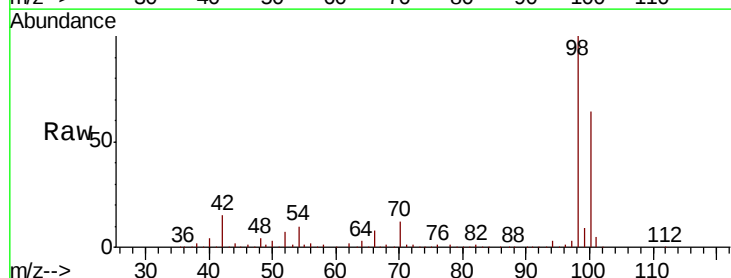
Instrument :  
MSVOA\_W  
ClientSampleId :  
2S-E2-(0-1)

Tgt Ion:117 Resp: 21675  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.8 113.6#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 52.958 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011672.D  
Acq: 03 Aug 2019 17:56

Tgt Ion: 98 Resp: 437686  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 43.276 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011672.D

Acq: 03 Aug 2019 17:56

Instrument :

MSVOA\_W

ClientSampleId :

2S-E2-(0-1)

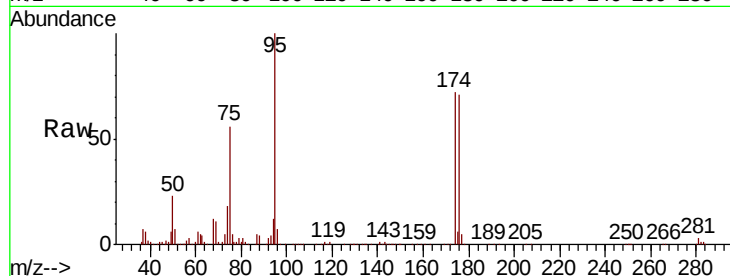
Tgt Ion: 95 Resp: 127515

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

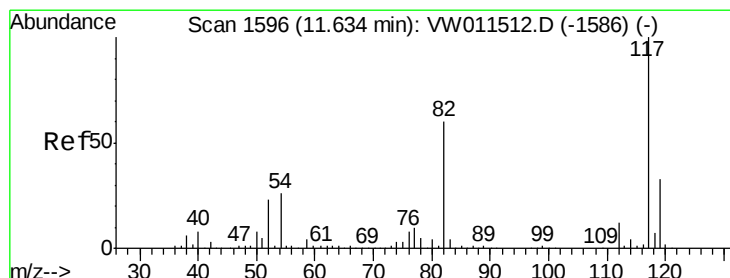
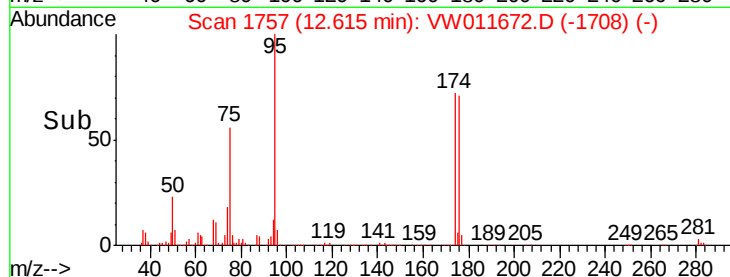
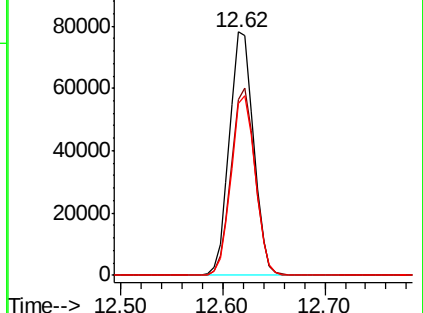
176 73.7 0.0 144.4



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: VW011672.D

Acq: 03 Aug 2019 17:56

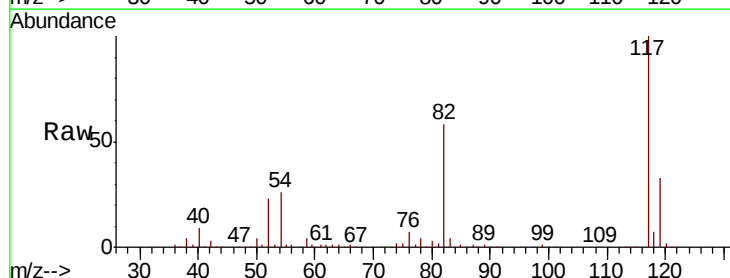
Tgt Ion: 117 Resp: 292475

Ion Ratio Lower Upper

117 100

82 58.1 47.9 71.9

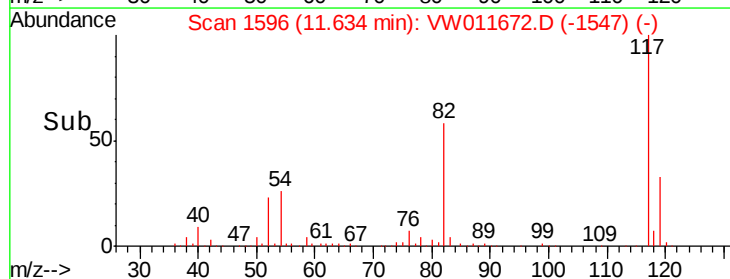
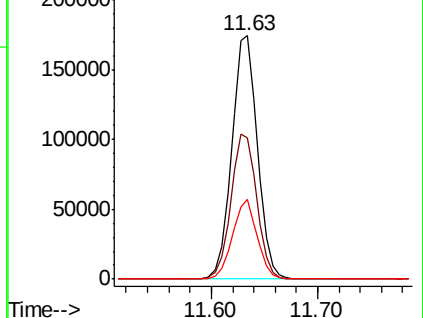
119 32.6 26.2 39.2

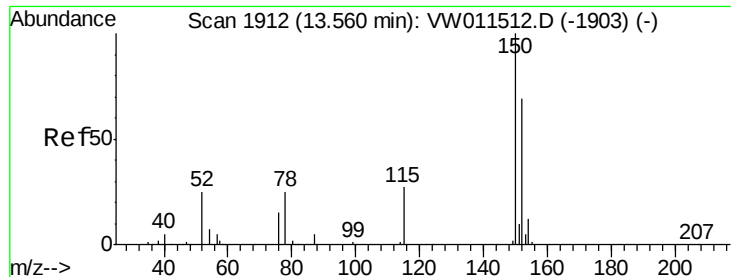


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW011672.D

Acq: 03 Aug 2019 17:56

Instrument :

MSVOA\_W

ClientSampleId :

2S-E2-(0-1)

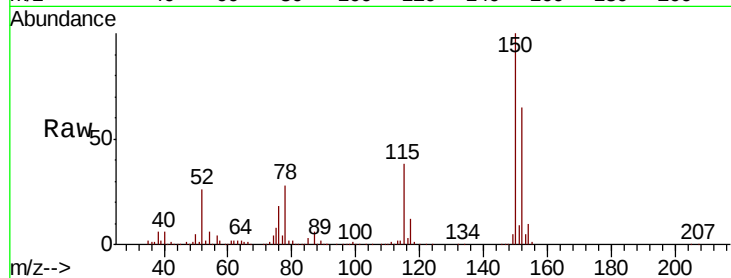
Tgt Ion:152 Resp: 98868

Ion Ratio Lower Upper

152 100

115 59.9 30.5 91.5

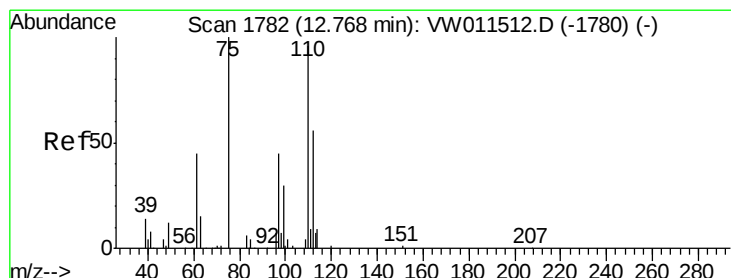
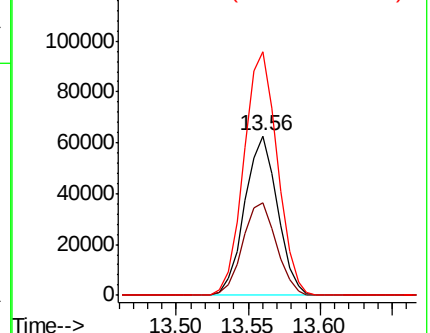
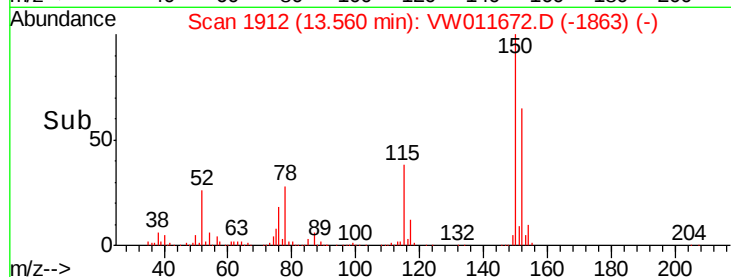
150 156.1 0.0 352.6



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: 65.694 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011672.D

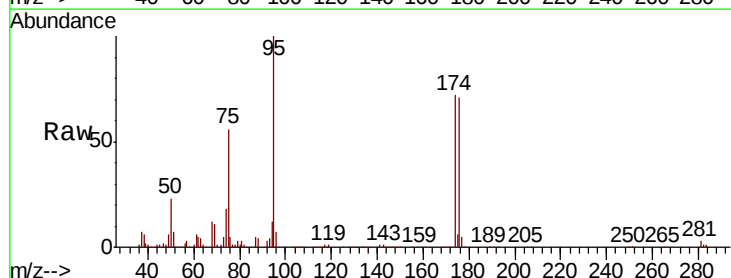
Acq: 03 Aug 2019 17:56

Tgt Ion: 75 Resp: 68725

Ion Ratio Lower Upper

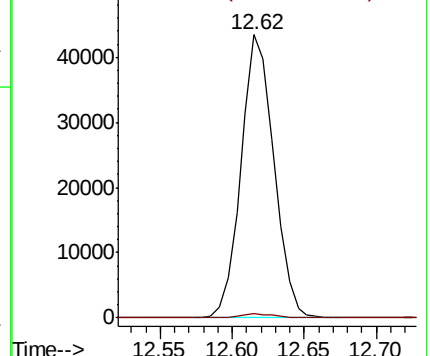
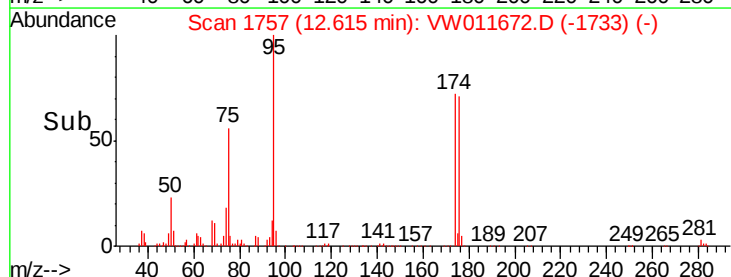
75 100

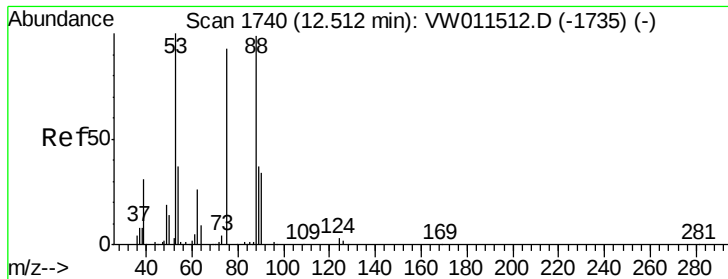
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

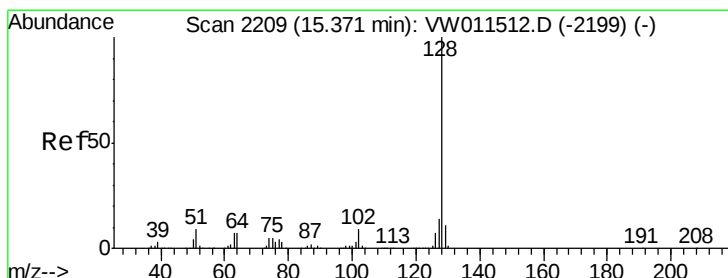
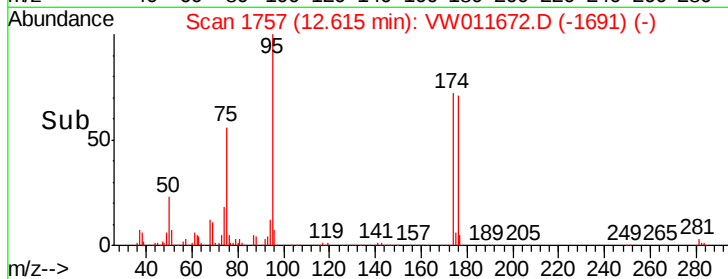
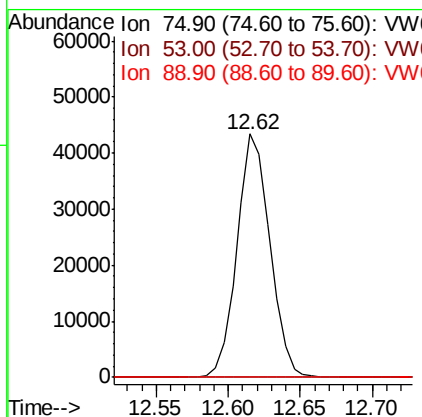
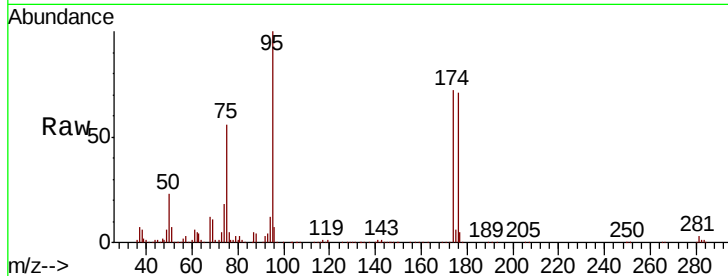




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 151.402 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW011672.D  
 Acq: 03 Aug 2019 17:56

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 2S-E2-(0-1)

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 0.1   | 88.0  | 132.0# |
| 89      | 0.0   | 35.3  | 52.9#  |



#95  
 Naphthalene  
 Concen: 2.127 ug/l  
 RT: 15.37 min Scan# 2209  
 Delta R.T. 0.00 min  
 Lab File: VW011672.D  
 Acq: 03 Aug 2019 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 8.1   | 10.6  | 16.0# |
| 129     | 0.0   | 8.6   | 13.0# |

