

Data File : VW012006.D  
Acq On : 19 Aug 2019 22:37  
Operator : SY/VA  
Sample : K4386-01  
Misc : 2.79G/5ML/MSVOA\_W/SOIL  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E2-(0)

Quant Time: Aug 20 05:15:21 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  | 292215   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 482198   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 422428   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 169579   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 177224   | 52.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.64% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 143931   | 53.20 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.40% |      |
| 50) Toluene-d8            | 10.32  | 98  | 611286   | 55.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.38% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 202553   | 51.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.58% |      |

#### Target Compounds

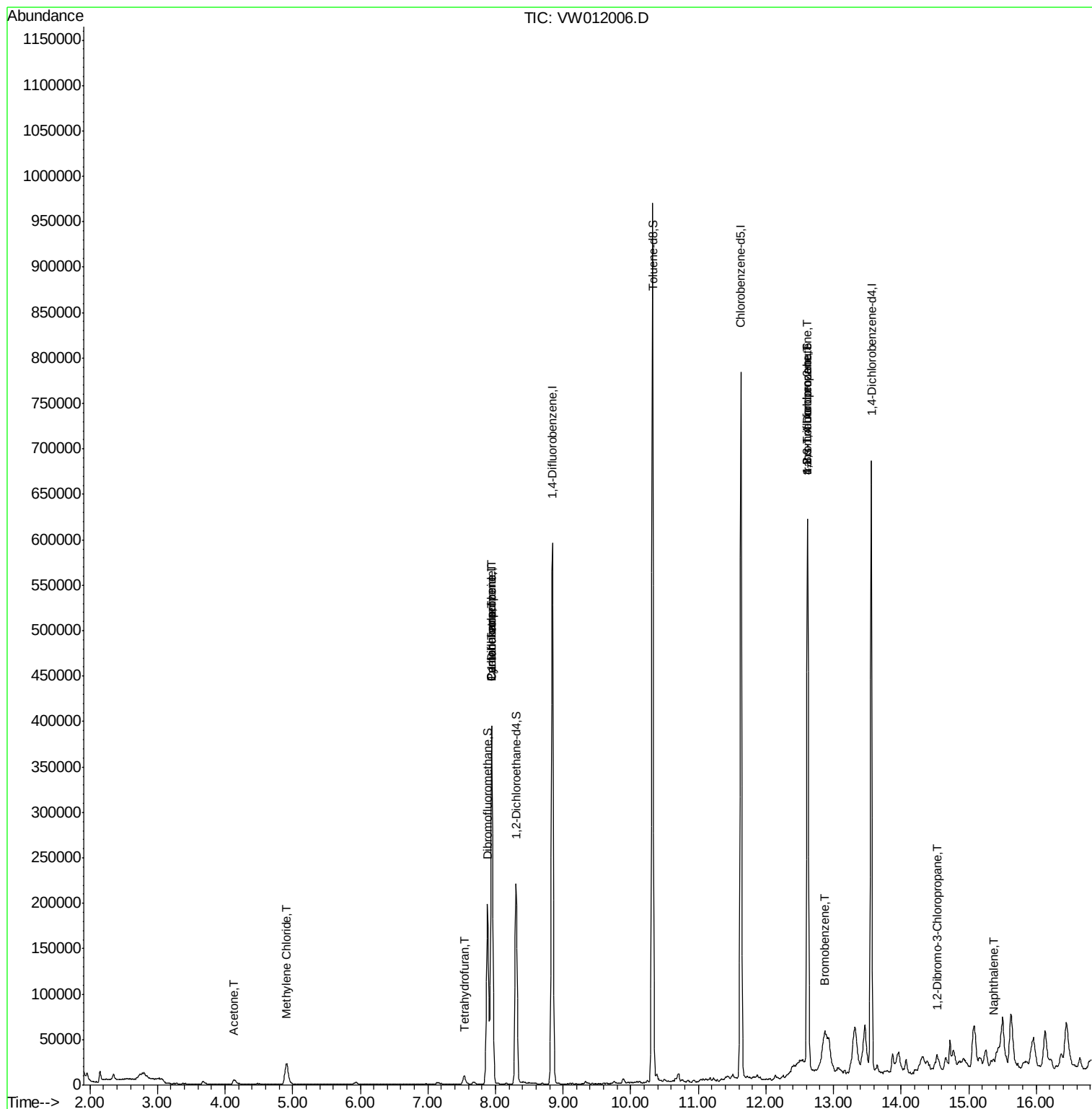
|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.18  | 59  | 387    | Below Cal | #      | 72     |
| 16) Acetone                    | 4.13  | 43  | 10455  | 9.795     | ug/l   | 95     |
| 20) Methylene Chloride         | 4.91  | 84  | 17561  | 4.771     | ug/l   | 98     |
| 29) Tetrahydrofuran            | 7.53  | 42  | 8492   | 10.637    | ug/l   | 96     |
| 31) Cyclohexane                | 7.94  | 56  | 7038   | 1.122     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 24244  | 4.835     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 28834  | 6.718     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 106881 | 59.566    | ug/l # | 100    |
| 77) Bromobenzene               | 12.88 | 156 | 57368  | 20.516    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 106881 | 137.278   | ug/l # | 7      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.53 | 75  | 539    | 1.328     | ug/l # | 38     |
| 95) Naphthalene                | 15.36 | 128 | 2823   | 2.470     | ug/l # | 89     |

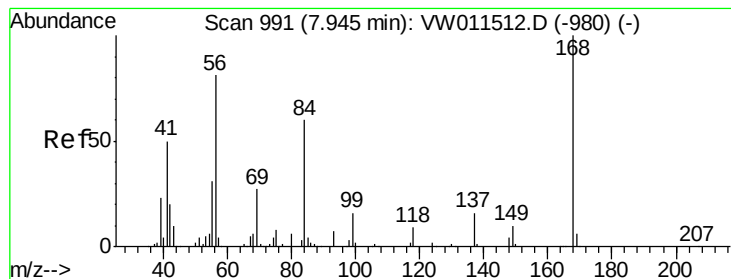
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012006.D

Acq: 19 Aug 2019 22:37

Instrument :

MSVOA\_W

ClientSampleId :

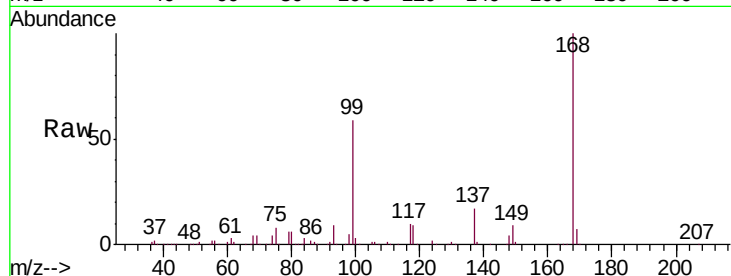
T8-E2-(0)

Tgt Ion: 168 Resp: 292215

Ion Ratio Lower Upper

168 100

99 58.7 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

150000

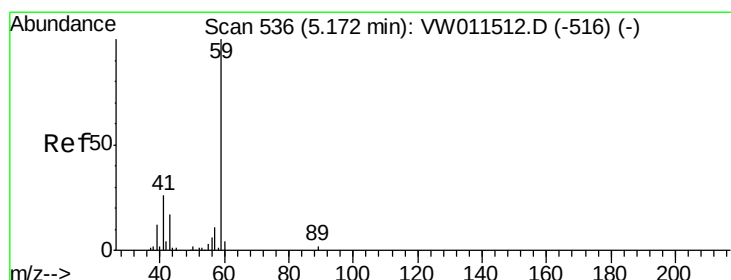
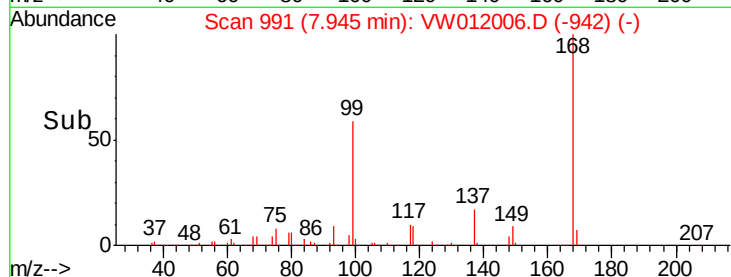
100000

50000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.01 min

Lab File: VW012006.D

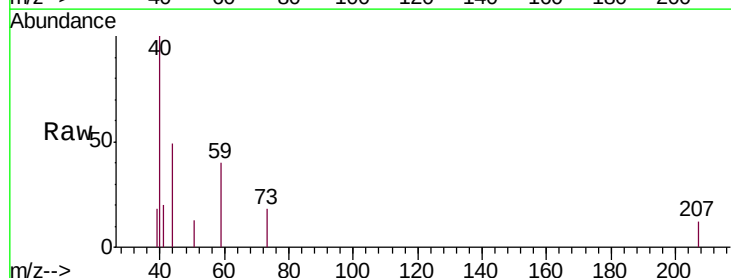
Acq: 19 Aug 2019 22:37

Tgt Ion: 59 Resp: 387

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

5.18

200

150

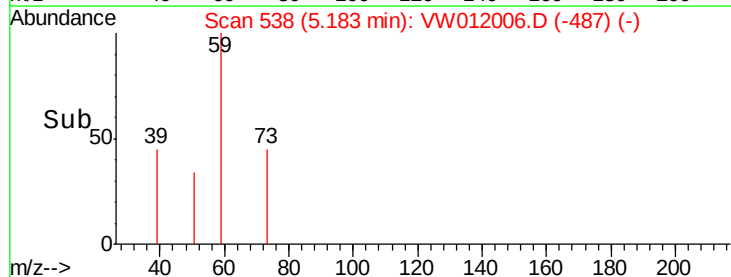
100

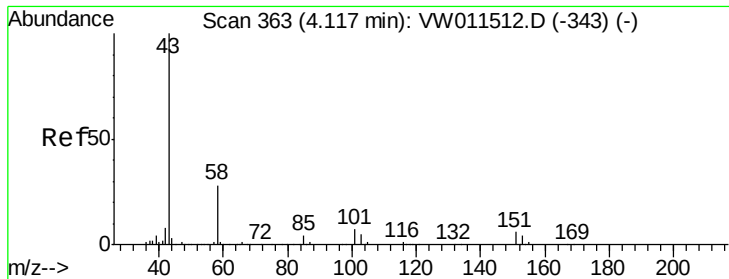
50

0

5.15 5.20

Time-->





#16

Acetone

Concen: 9.795 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

Instrument :

MSVOA\_W

ClientSampleId :

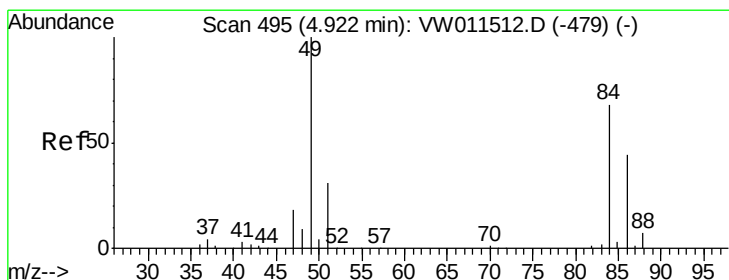
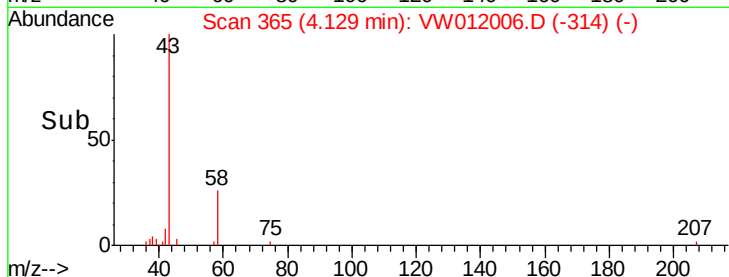
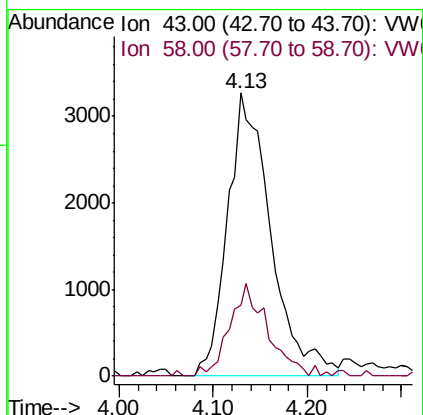
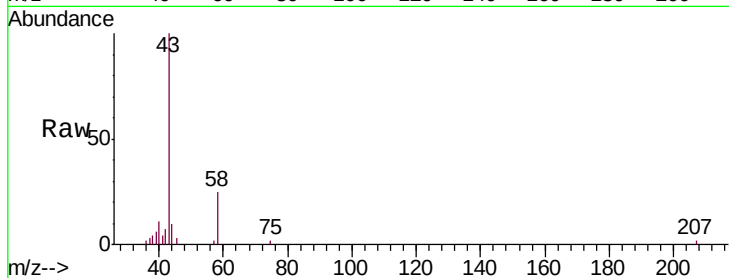
T8-E2-(0)

Tgt Ion: 43 Resp: 10455

Ion Ratio Lower Upper

43 100

58 25.2 22.3 33.5



#20

Methylene Chloride

Concen: 4.771 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

Tgt Ion: 84 Resp: 17561

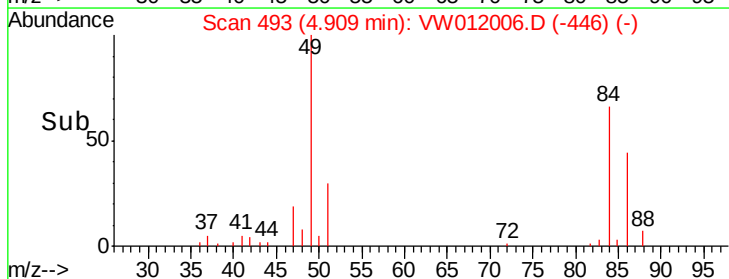
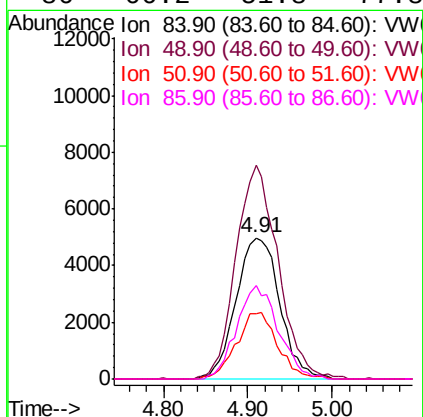
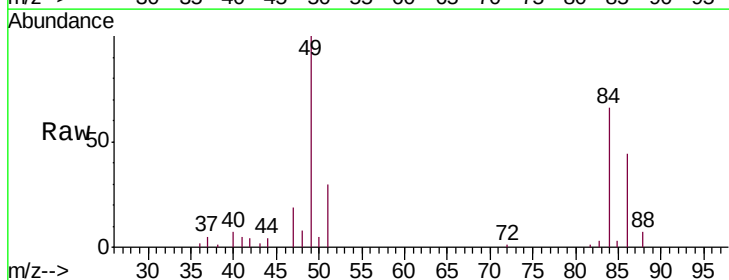
Ion Ratio Lower Upper

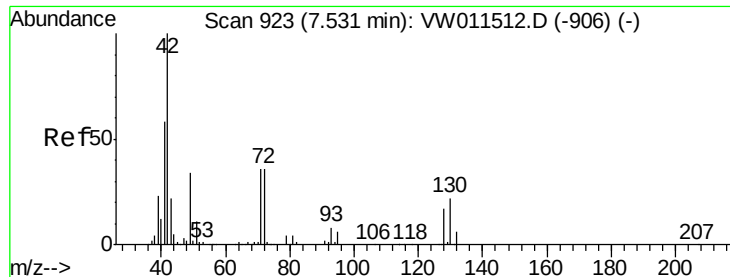
84 100

49 151.0 117.8 176.6

51 46.0 37.0 55.4

86 66.2 51.8 77.8

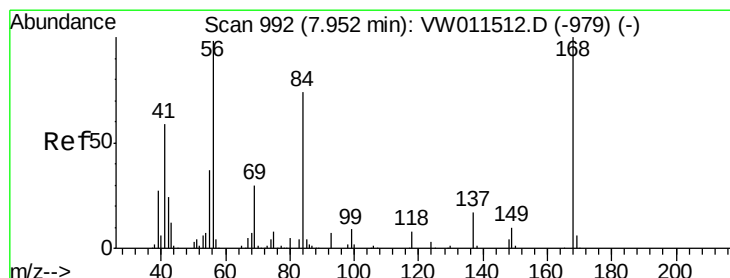
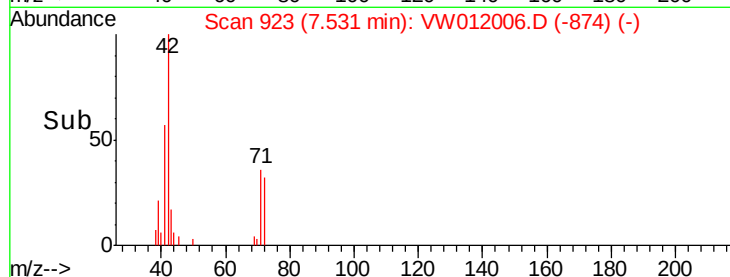
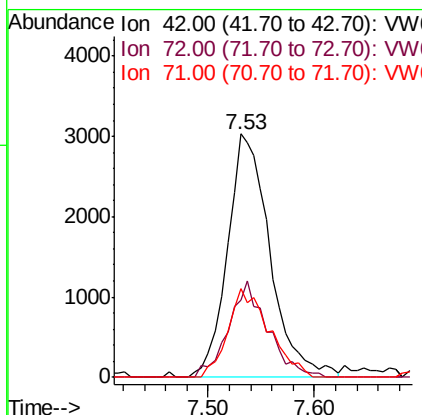
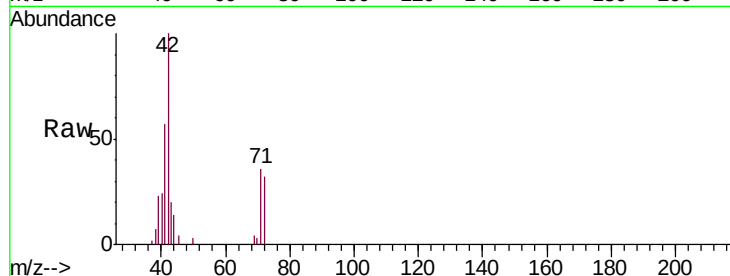




#29  
Tetrahydrofuran  
Concen: 10.637 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012006.D  
Acq: 19 Aug 2019 22:37

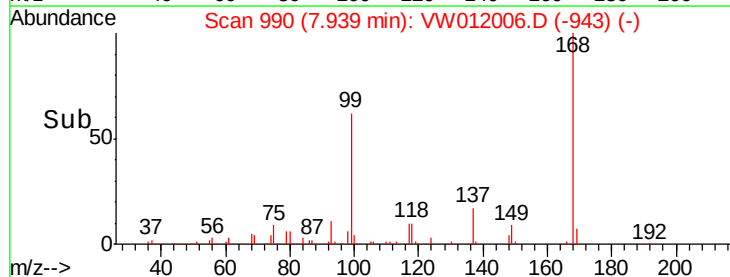
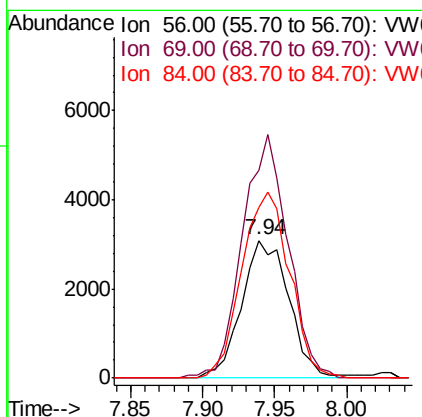
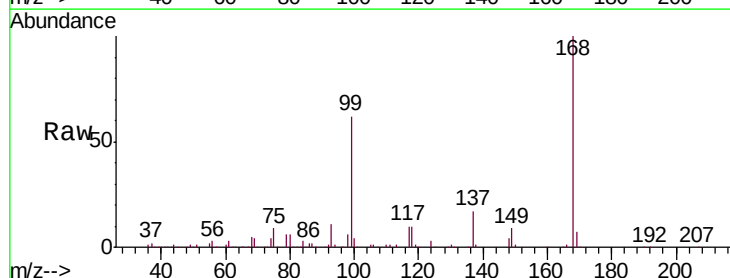
Instrument :  
MSVOA\_W  
ClientSampleId :  
T8-E2-(0)

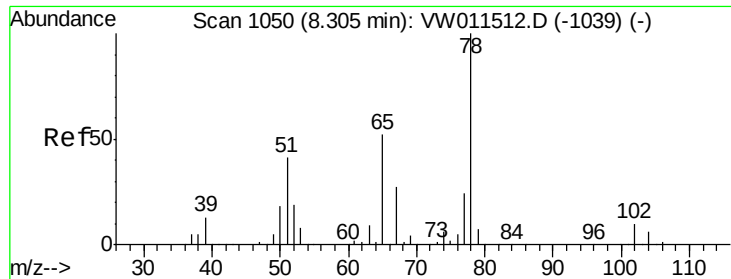
Tgt Ion: 42 Resp: 8492  
Ion Ratio Lower Upper  
42 100  
72 36.2 27.1 40.7  
71 35.3 26.2 39.4



#31  
Cyclohexane  
Concen: 1.122 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.01 min  
Lab File: VW012006.D  
Acq: 19 Aug 2019 22:37

Tgt Ion: 56 Resp: 7038  
Ion Ratio Lower Upper  
56 100  
69 151.4 24.3 36.5#  
84 123.9 60.4 90.6#

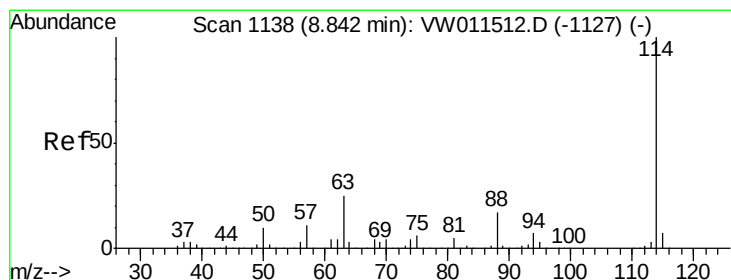
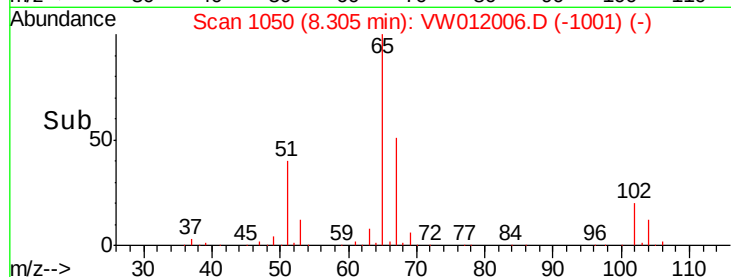
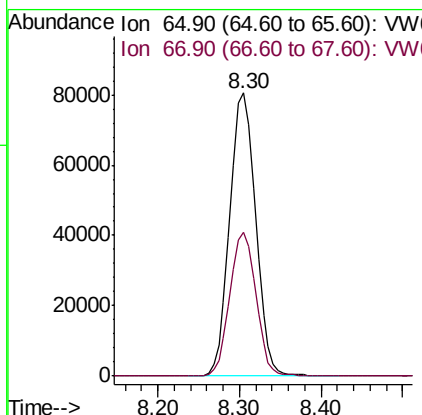
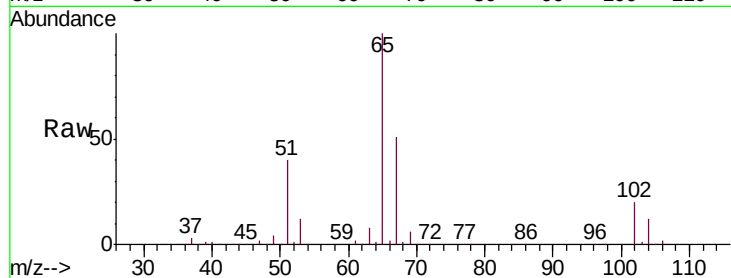




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.817 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

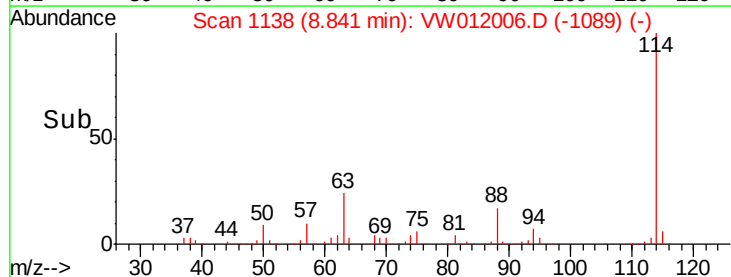
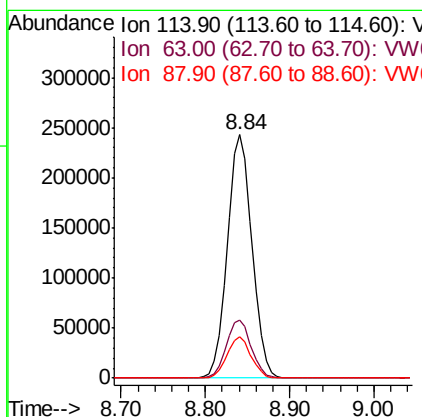
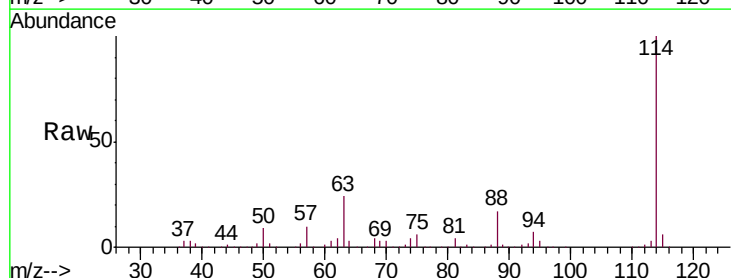
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-E2-(0)

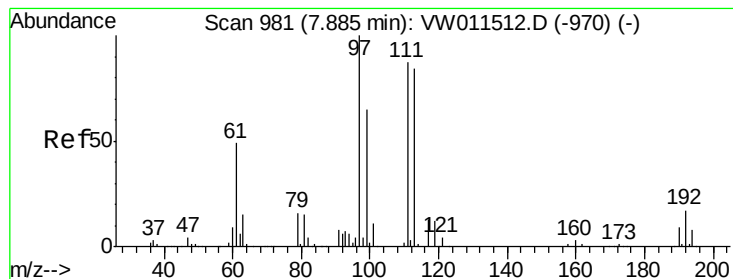
Tgt Ion: 65 Resp: 177224  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

Tgt Ion: 114 Resp: 482198  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 0.0 49.2  
 88 16.7 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.205 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

Instrument :

MSVOA\_W

ClientSampleId :

T8-E2-(0)

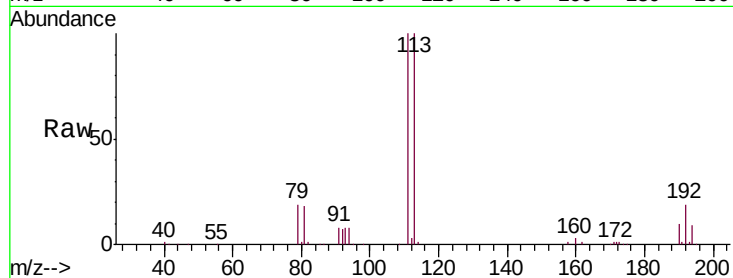
Tgt Ion:113 Resp: 143931

Ion Ratio Lower Upper

113 100

111 102.2 82.7 124.1

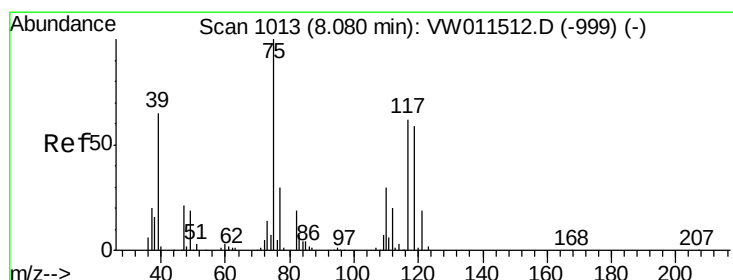
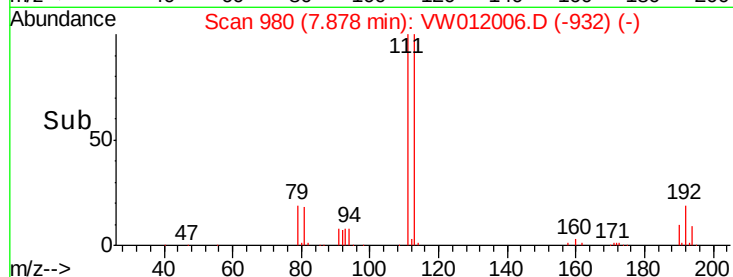
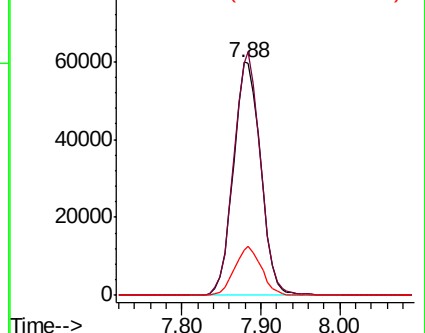
192 20.4 16.1 24.1



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: 4.835 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

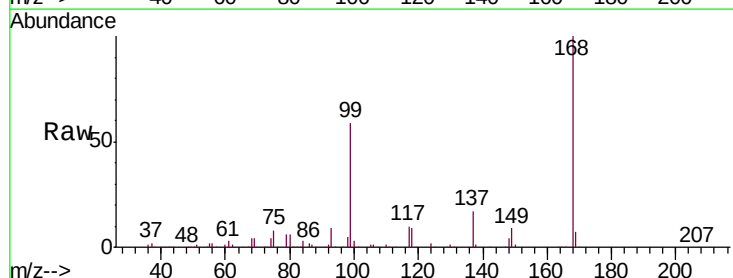
Tgt Ion: 75 Resp: 24244

Ion Ratio Lower Upper

75 100

110 7.8 15.6 46.8#

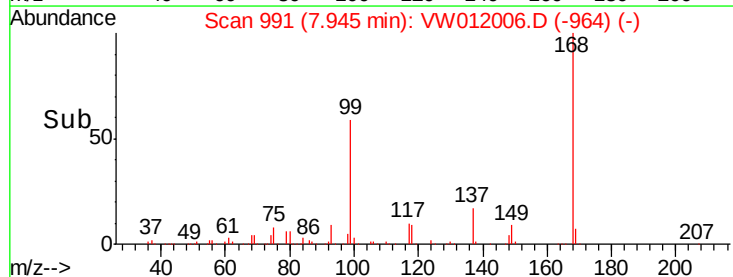
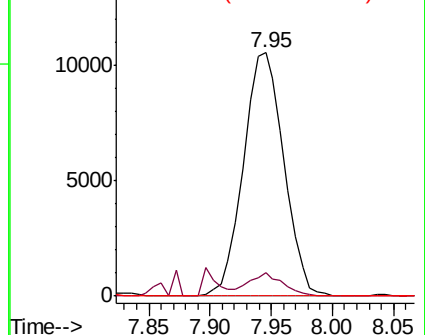
77 0.0 24.3 36.5#

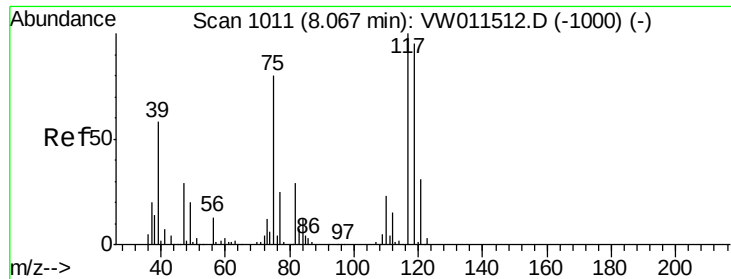


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

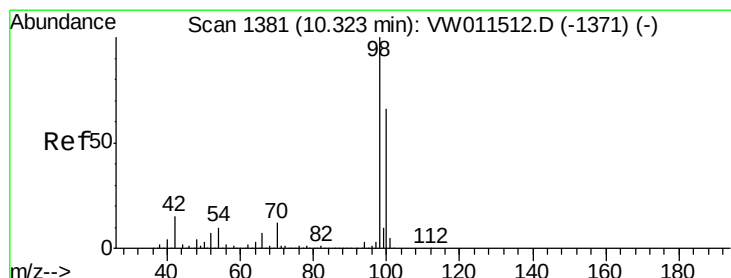
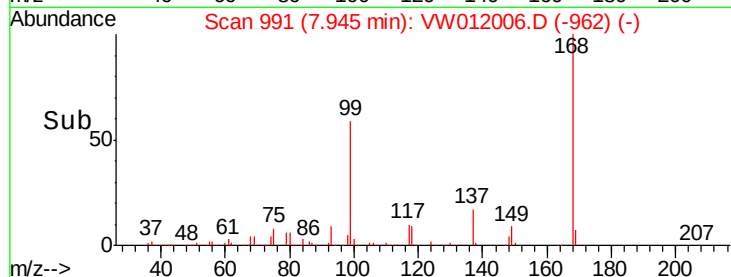
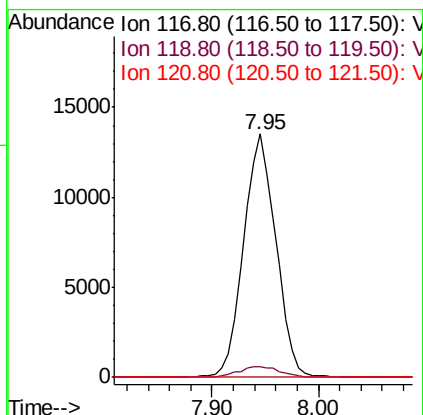
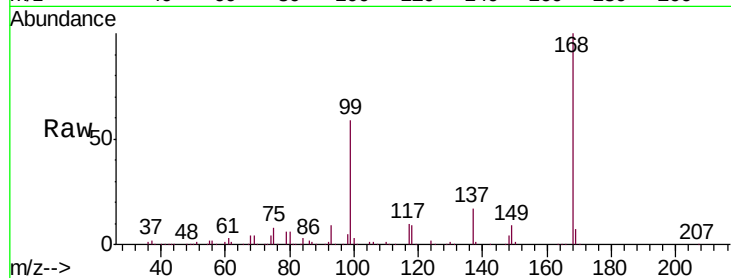




#38  
Carbon Tetrachloride  
Concen: 6.718 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW012006.D  
Acq: 19 Aug 2019 22:37

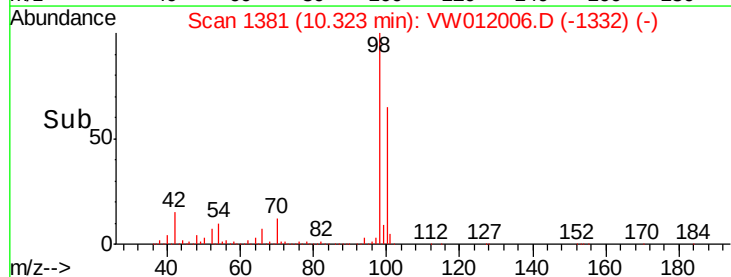
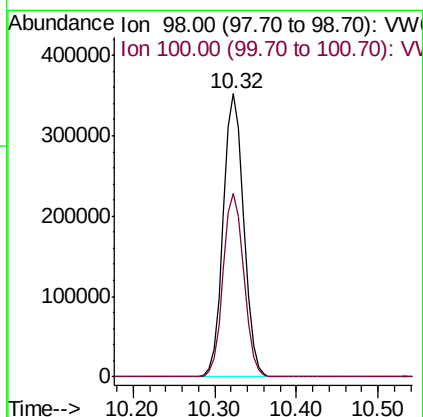
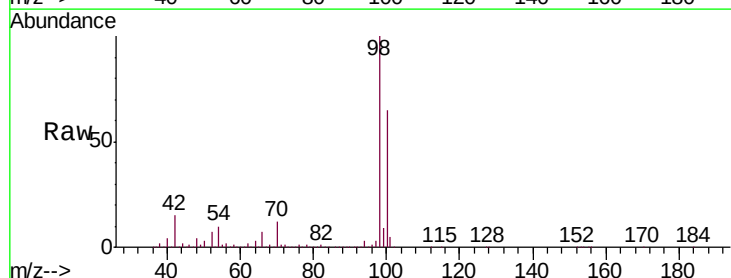
Instrument :  
MSVOA\_W  
ClientSampled :  
T8-E2-(0)

Tgt Ion:117 Resp: 28834  
Ion Ratio Lower Upper  
117 100  
119 4.6 75.8 113.6#  
121 0.0 24.7 37.1#

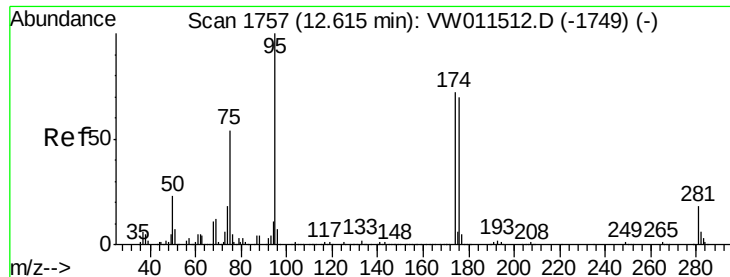


#50  
Toluene-d8  
Concen: 55.190 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012006.D  
Acq: 19 Aug 2019 22:37

Tgt Ion: 98 Resp: 611286  
Ion Ratio Lower Upper  
98 100  
100 65.5 52.7 79.1







#62

4-Bromofluorobenzene

Concen: 51.295 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

Instrument :

MSVOA\_W

ClientSampleId :

T8-E2-(0)

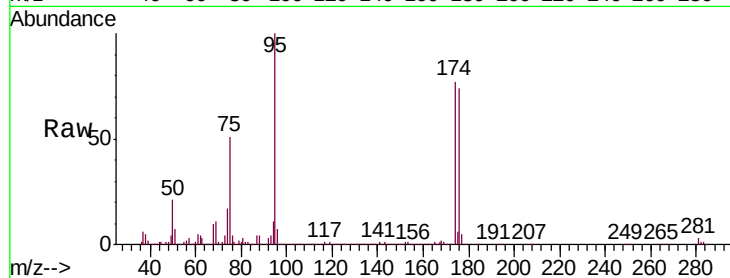
Tgt Ion: 95 Resp: 202553

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.2

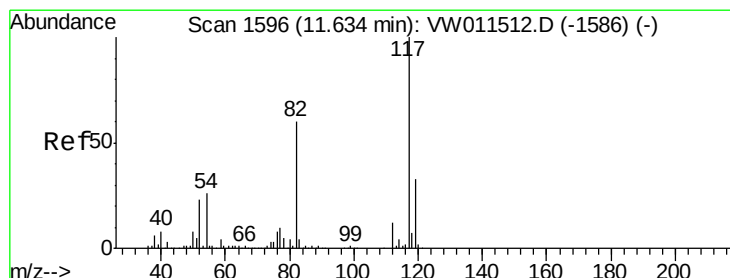
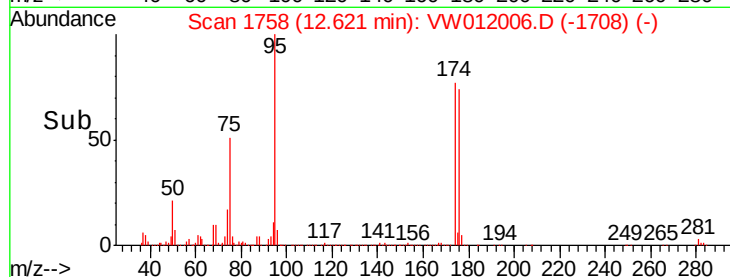
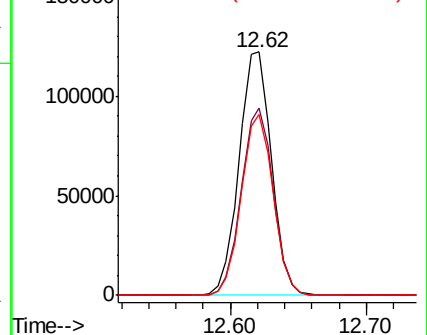
176 73.6 0.0 144.4



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: VW012006.D

Acq: 19 Aug 2019 22:37

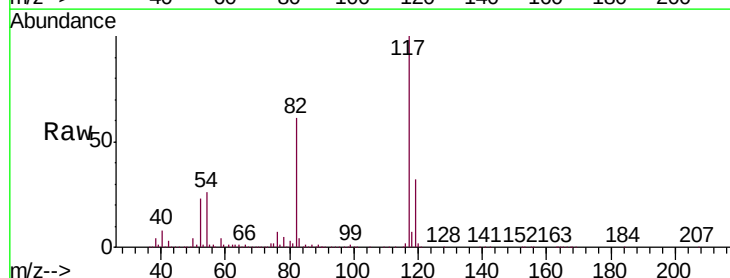
Tgt Ion: 117 Resp: 422428

Ion Ratio Lower Upper

117 100

82 60.5 47.9 71.9

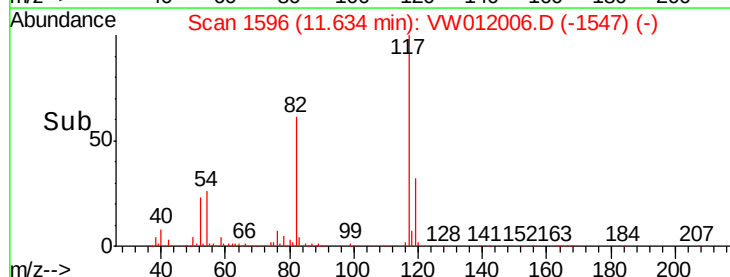
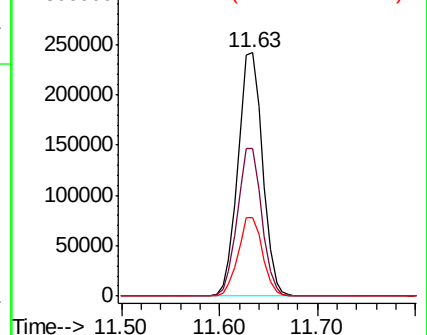
119 32.4 26.2 39.2

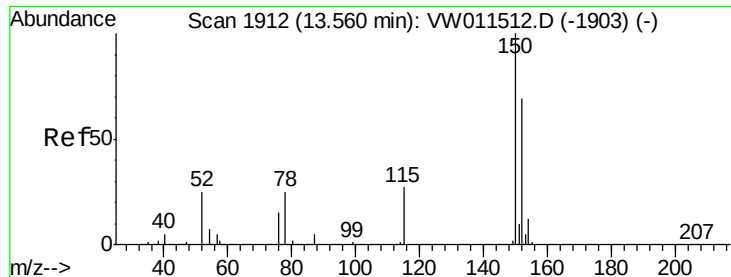


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

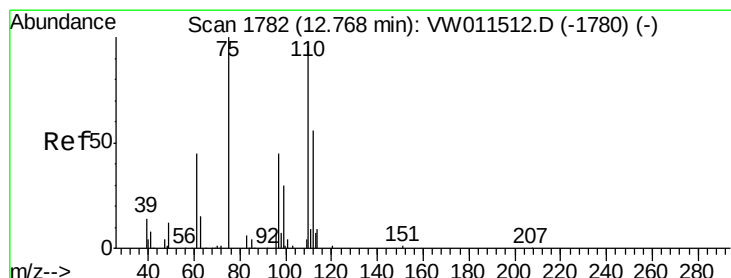
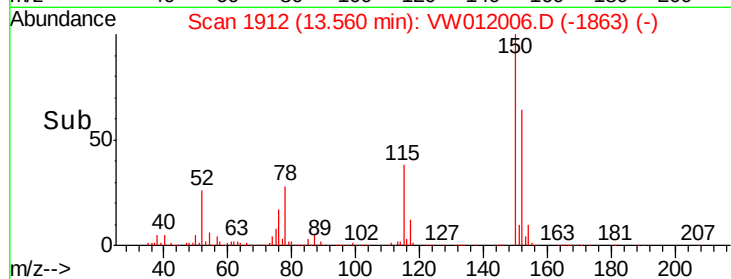
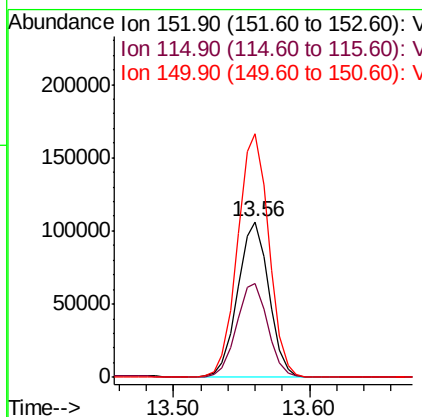
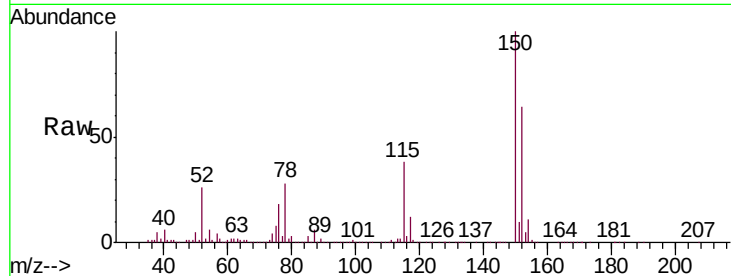




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. -0.00 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

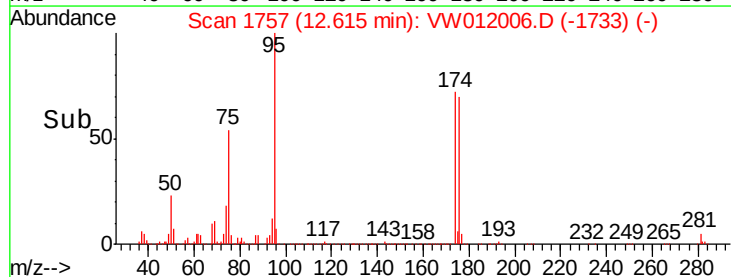
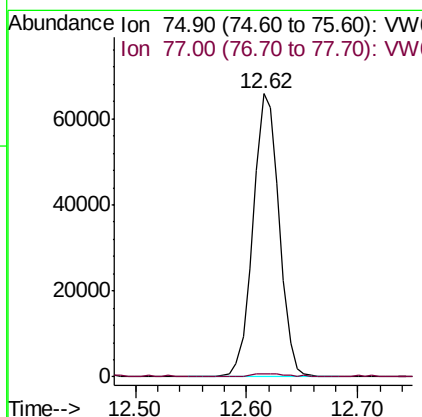
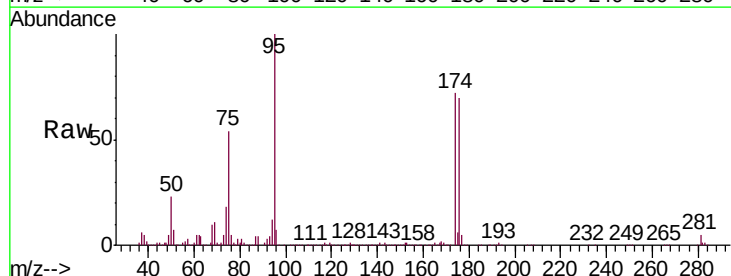
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 T8-E2-(0)

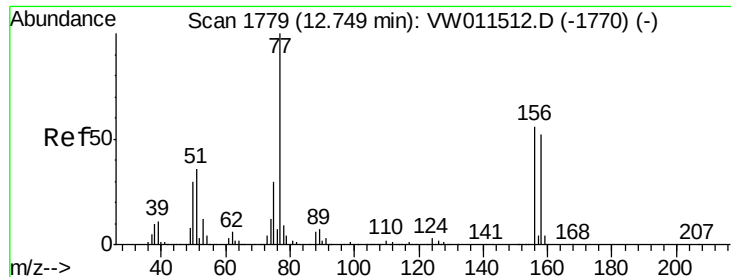
Tgt Ion:152 Resp: 169579  
 Ion Ratio Lower Upper  
 152 100  
 115 60.2 30.5 91.5  
 150 156.9 0.0 352.6



#76  
 1,2,3-Trichloropropane  
 Concen: 59.566 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

Tgt Ion: 75 Resp: 106881  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 0.0 0.0#





#77

Bromobenzene

Concen: 20.516 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.13 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

Instrument :

MSVOA\_W

ClientSampleId :

T8-E2-(0)

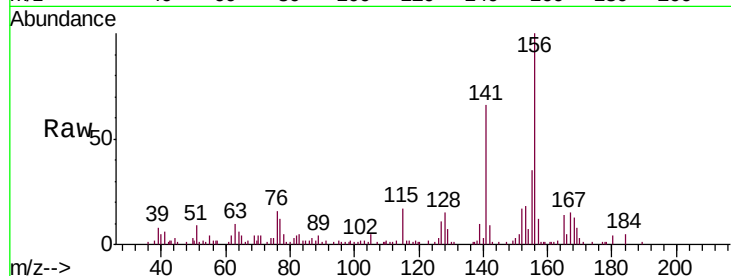
Tgt Ion:156 Resp: 57368

Ion Ratio Lower Upper

156 100

77 6.0 106.5 319.4#

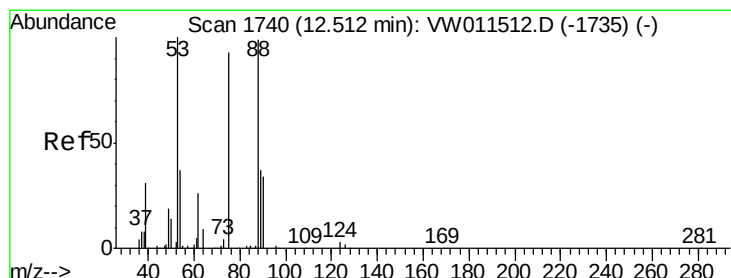
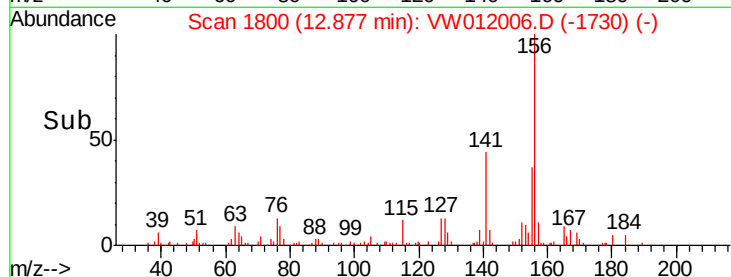
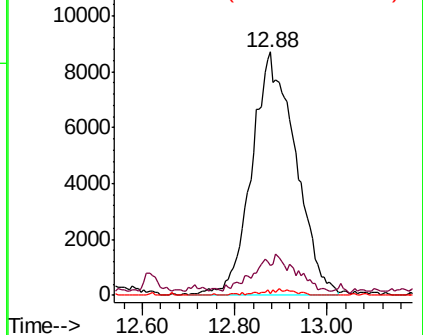
158 0.2 48.0 144.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 137.278 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012006.D

Acq: 19 Aug 2019 22:37

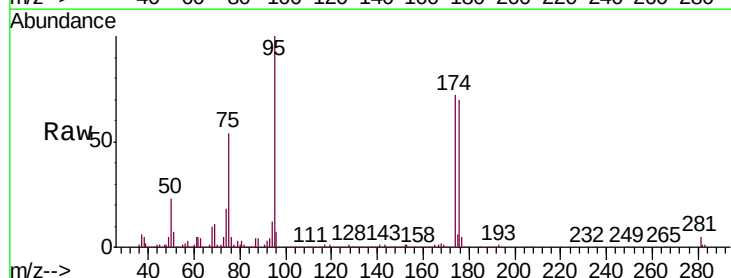
Tgt Ion: 75 Resp: 106881

Ion Ratio Lower Upper

75 100

53 0.2 88.0 132.0#

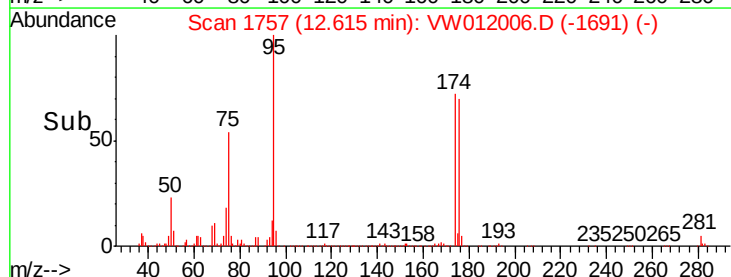
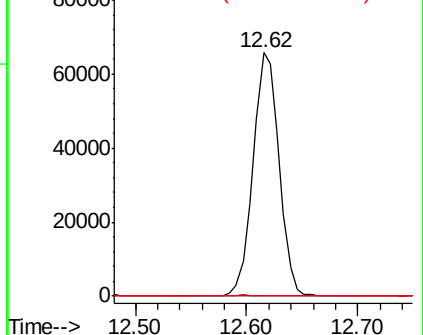
89 0.5 35.3 52.9#

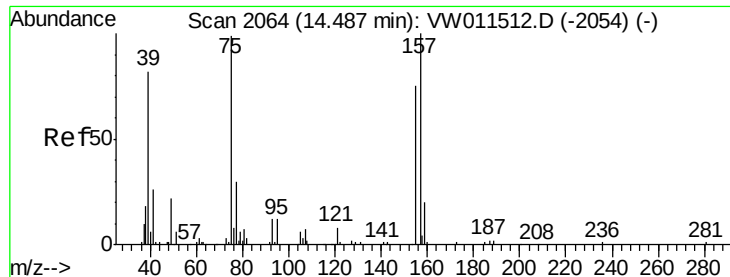


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

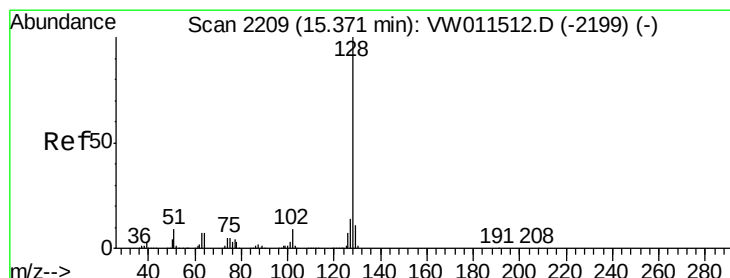
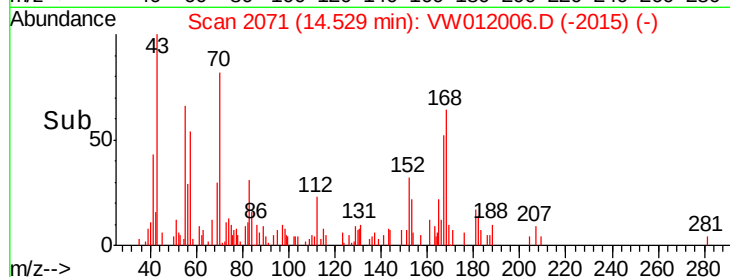
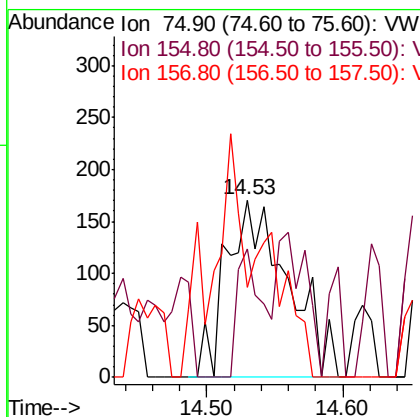
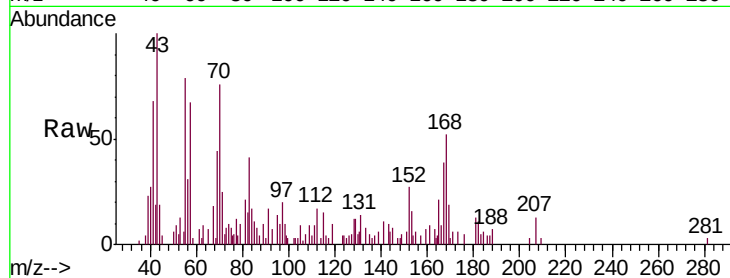




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.328 ug/l  
 RT: 14.53 min Scan# 2071  
 Delta R.T. 0.04 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T8-E2-(0)

Tgt Ion: 75 Resp: 539  
 Ion Ratio Lower Upper  
 75 100  
 155 29.5 38.2 114.6#  
 157 30.2 48.9 146.7#



#95  
 Naphthalene  
 Concen: 2.470 ug/l  
 RT: 15.36 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: VW012006.D  
 Acq: 19 Aug 2019 22:37

Tgt Ion: 128 Resp: 2823  
 Ion Ratio Lower Upper  
 128 100  
 127 9.2 10.6 16.0#  
 129 15.7 8.6 13.0#

