

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102419\  
 Data File : VW013722.D  
 Acq On : 24 Oct 2019 20:12  
 Operator : SY/VA  
 Sample : K5502-14RE  
 Misc : 6.58G/5ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 178-60-(2.1)

Quant Time: Oct 25 08:00:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W102319S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 23 14:11:46 2019  
 Response via : Initial Calibration

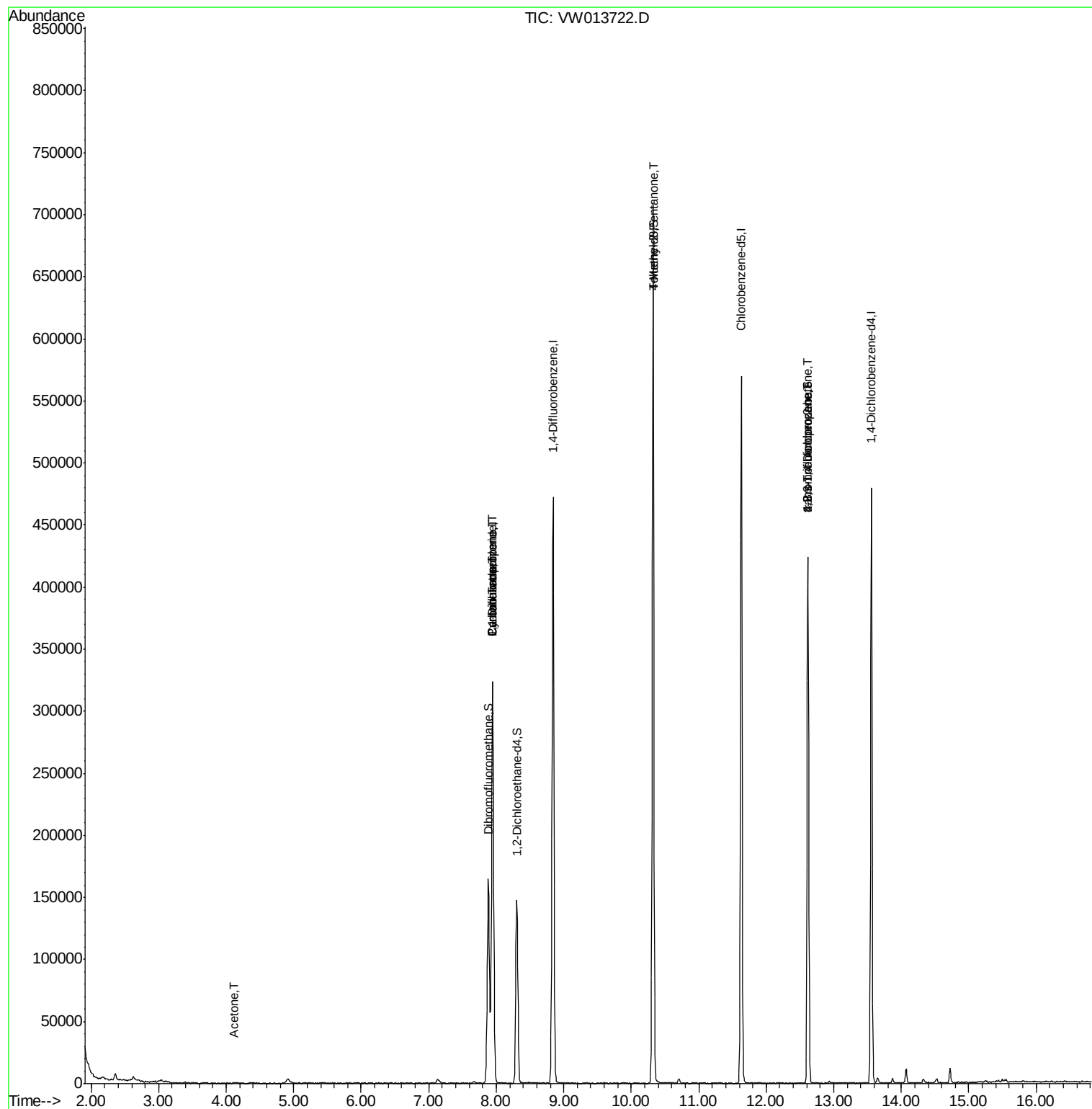
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.95  | 168  | 273600   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.84  | 114  | 417417   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.63 | 117  | 342725   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.56 | 152  | 139025   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.31  | 65   | 113368   | 55.24     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.48% |          |
| 35) Dibromofluoromethane       | 7.88  | 113  | 120066   | 51.77     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.54% |          |
| 50) Toluene-d8                 | 10.32 | 98   | 473816   | 50.13     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.26% |          |
| 62) 4-Bromofluorobenzene       | 12.62 | 95   | 139770   | 43.68     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 87.36%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 4.12  | 43   | 546      | 1.255     | ug/l    | 94       |
| 20) Methylene Chloride         | 4.92  | 84   | 2761     | Below Cal | #       | 84       |
| 31) Cyclohexane                | 7.95  | 56   | 4721     | 1.035     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 17299    | 4.450     | ug/l #  | 48       |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 23956    | 6.843     | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 1892     | 1.337     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 65567    | 65.672    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 65567    | 124.112   | ug/l #  | 14       |

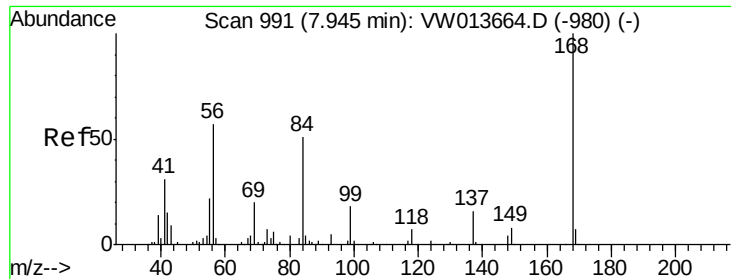
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 23 14:11:46 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: VW013722.D

Acq: 24 Oct 2019 20:12

Instrument :

MSVOA\_W

ClientSampleId :

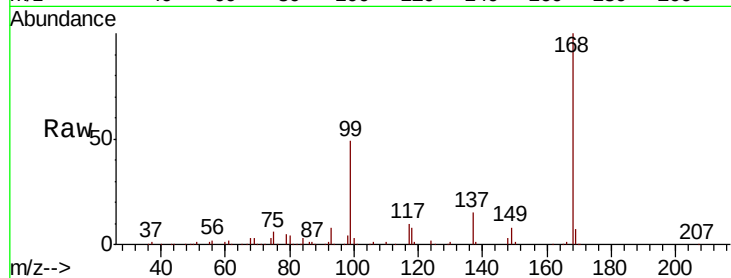
178-60-(2.1)

Tot Ion:168 Resp: 273600

Ion Ratio Lower Upper

168 100

99 48.9 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

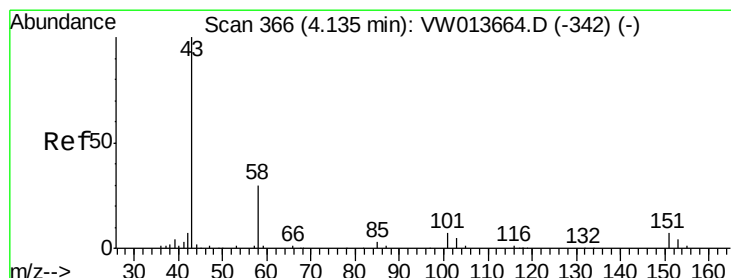
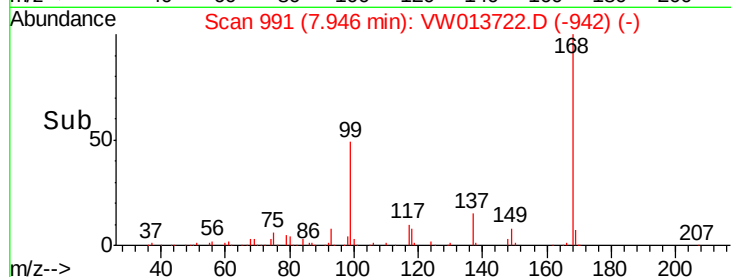
100000

50000

0

Time-->

7.80 7.90 8.00 8.10



#16

Acetone

Concen: 1.255 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

Lab File: VW013722.D

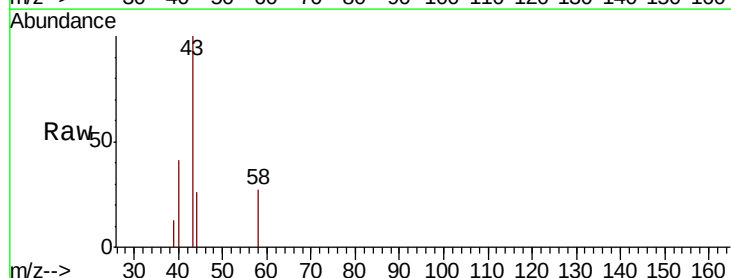
Acq: 24 Oct 2019 20:12

Tgt Ion: 43 Resp: 546

Ion Ratio Lower Upper

43 100

58 26.8 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

500

400

300

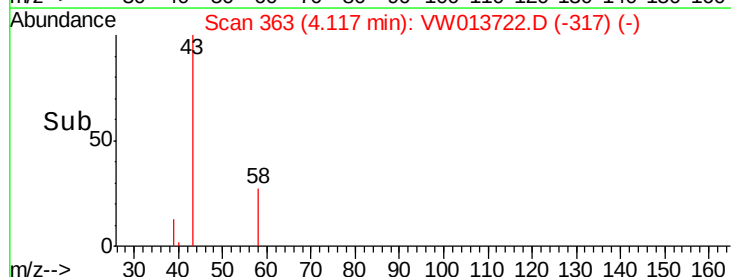
200

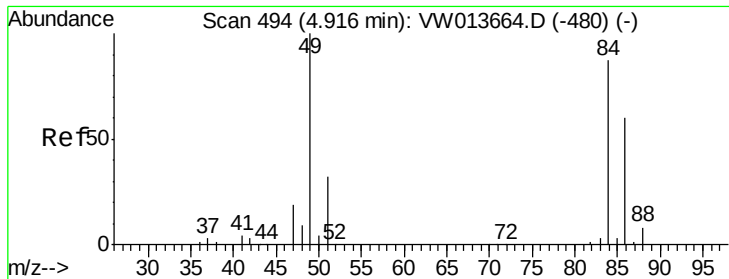
100

0

Time-->

4.06 4.08 4.10 4.12 4.14

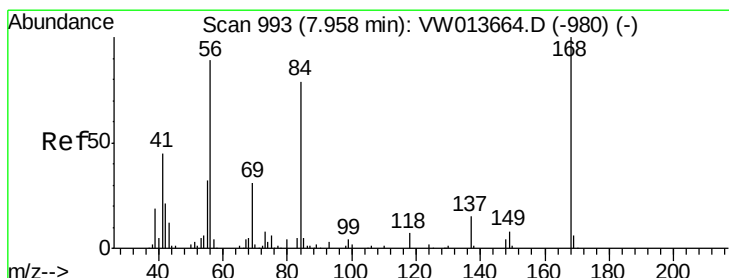
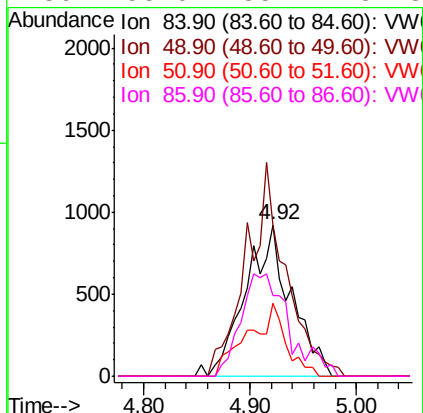
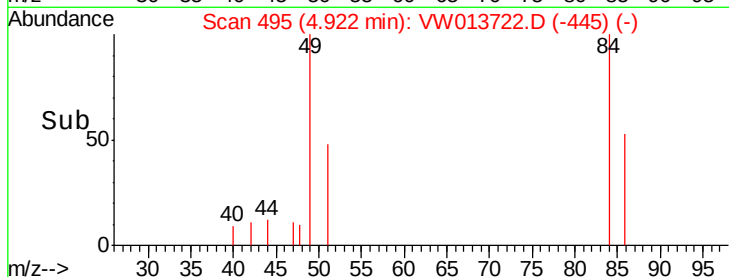
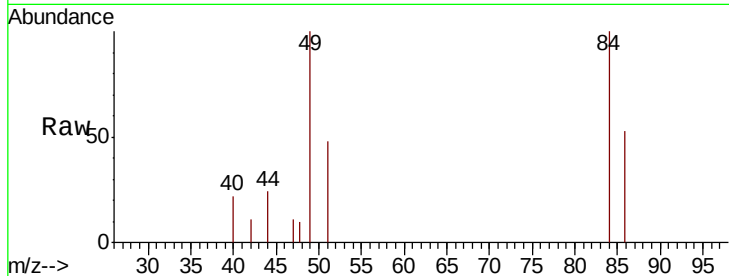




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW013722.D  
Acq: 24 Oct 2019 20:12

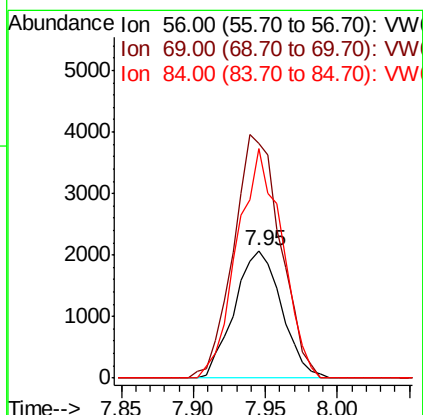
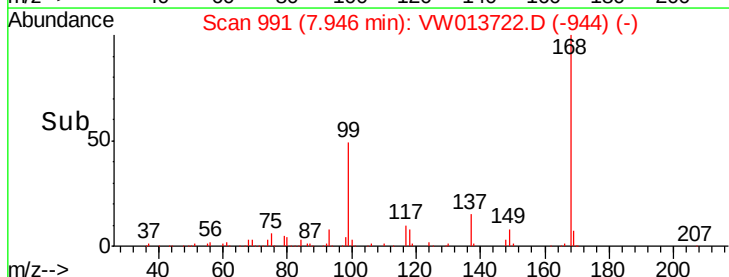
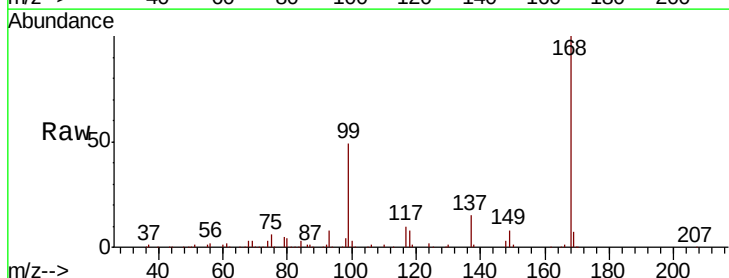
Instrument :  
MSVOA\_W  
ClientSampleId :  
178-60-(2.1)

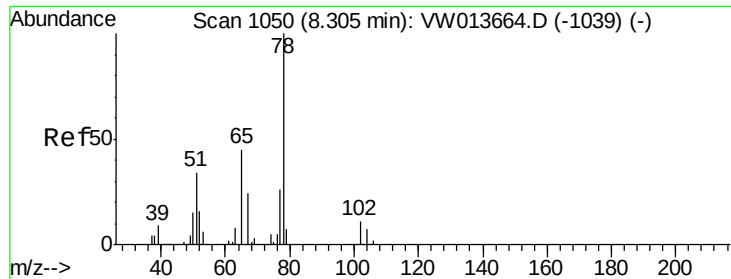
Tot Ion: 84 Resp: 2761  
Ion Ratio Lower Upper  
84 100  
49 100.2 91.8 137.6  
51 48.6 29.8 44.6#  
86 53.0 55.2 82.8#



#31  
Cyclohexane  
Concen: 1.035 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW013722.D  
Acq: 24 Oct 2019 20:12

Tgt Ion: 56 Resp: 4721  
Ion Ratio Lower Upper  
56 100  
69 183.9 27.5 41.3#  
84 179.6 70.8 106.2#

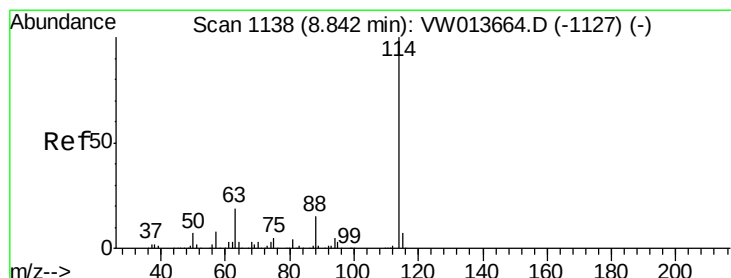
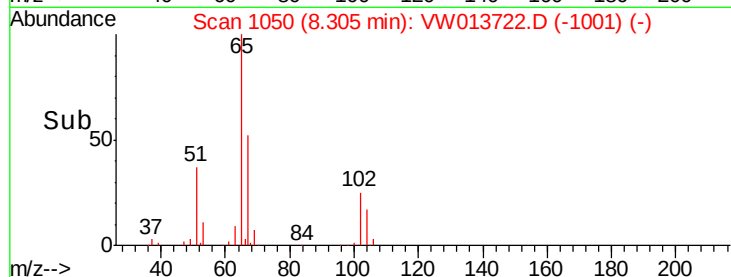
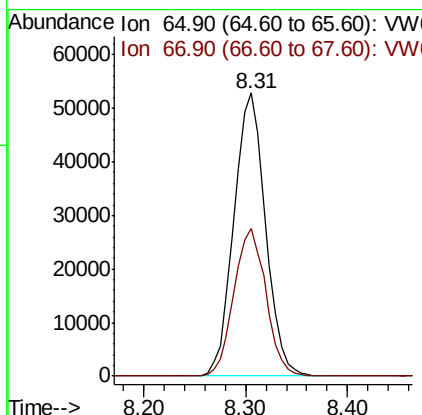
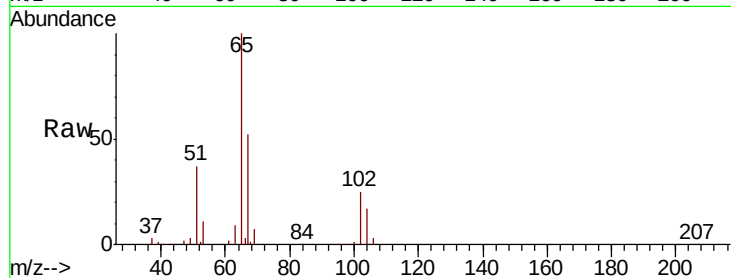




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.236 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

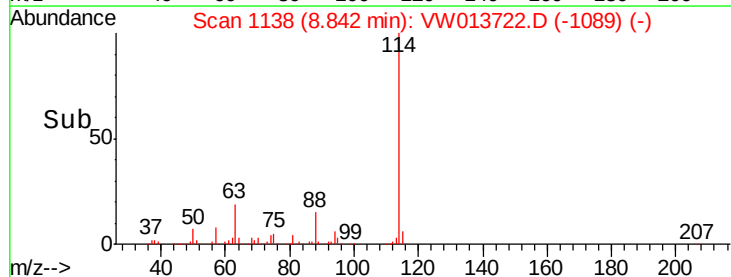
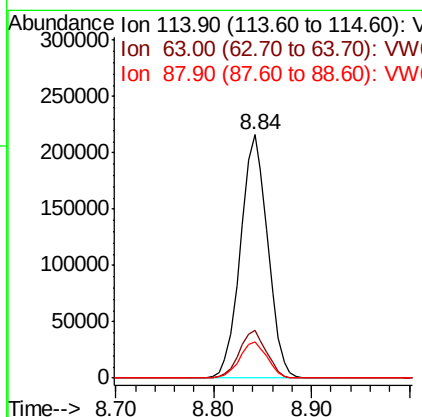
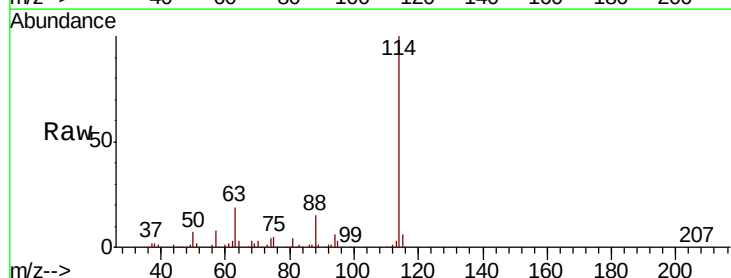
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 178-60-(2.1)

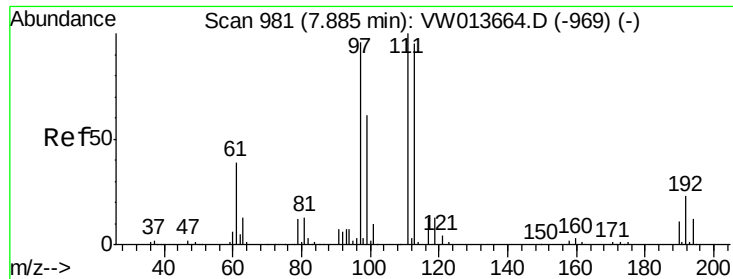
Tot Ion: 65 Resp: 113368  
 Ion Ratio Lower Upper  
 65 100  
 67 53.1 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

Tgt Ion: 114 Resp: 417417  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 37.6  
 88 14.7 0.0 30.2

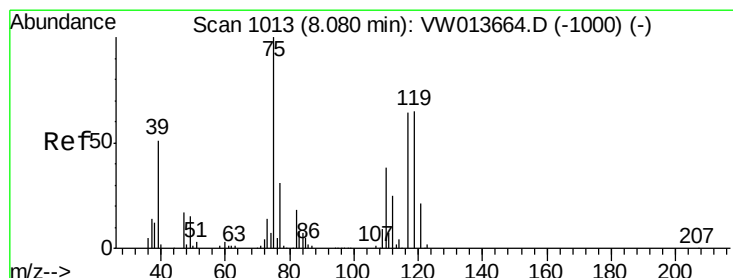
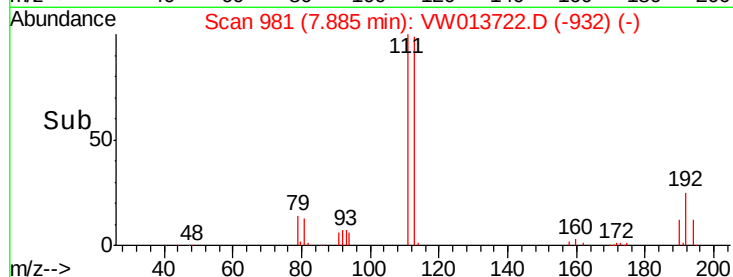
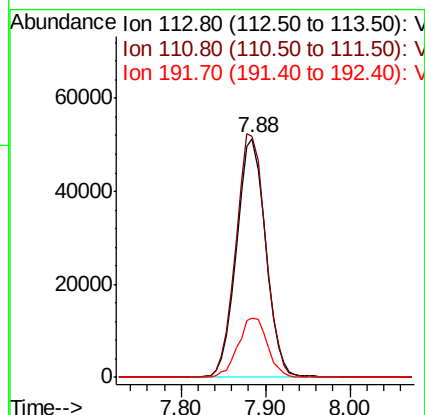
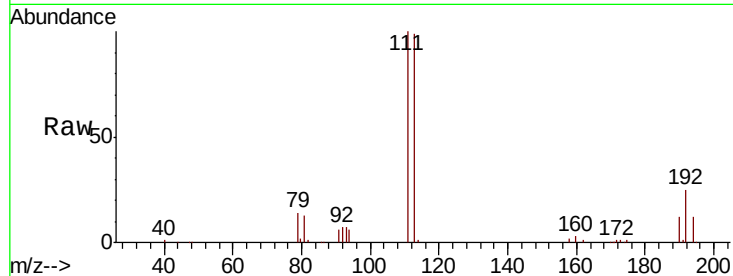




#35  
 Dibromofluoromethane  
 Concen: 51.766 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

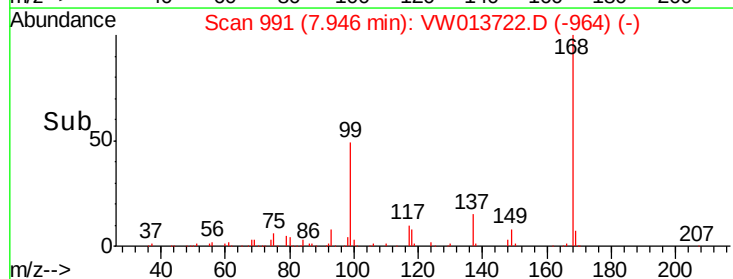
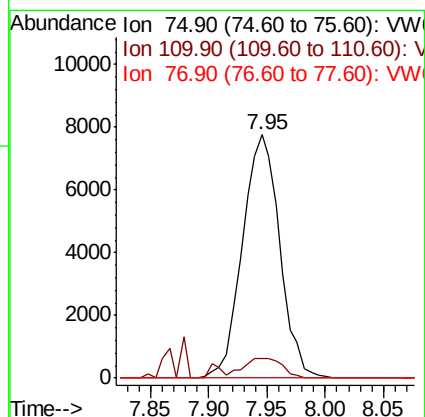
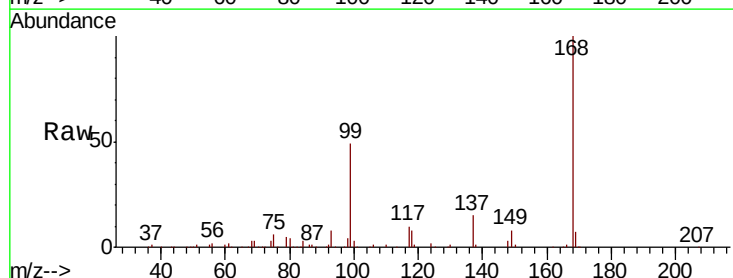
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 178-60-(2.1)

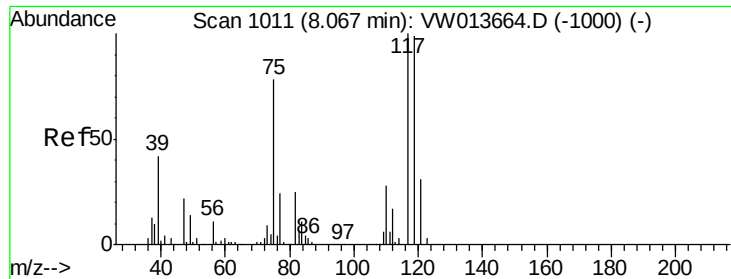
Tot Ion:113 Resp: 120066  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 83.0 124.6  
 192 25.0 19.4 29.2



#36  
 1,1-Dichloropropene  
 Concen: 4.450 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

Tgt Ion: 75 Resp: 17299  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 18.7 56.1#  
 77 0.0 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 6.843 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013722.D

Acq: 24 Oct 2019 20:12

Instrument :

MSVOA\_W

ClientSampleId :

178-60-(2.1)

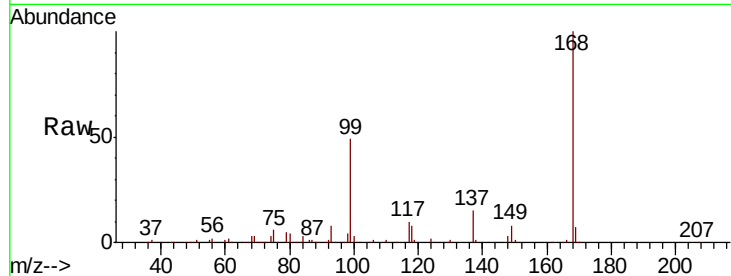
Tot Ion:117 Resp: 23956

Ion Ratio Lower Upper

117 100

119 5.7 79.0 118.4#

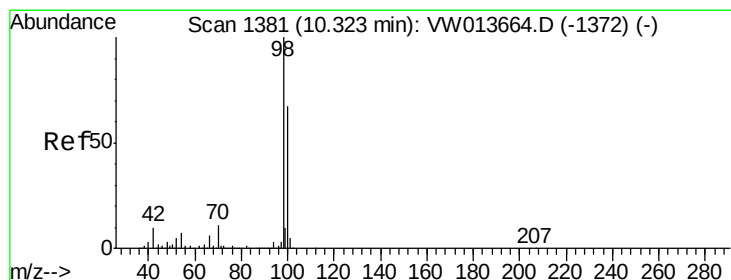
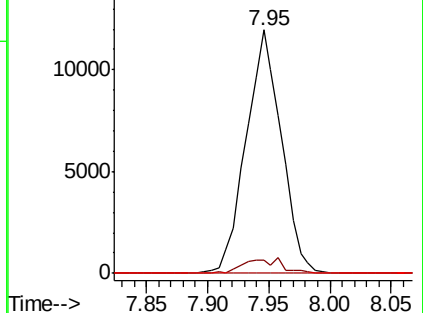
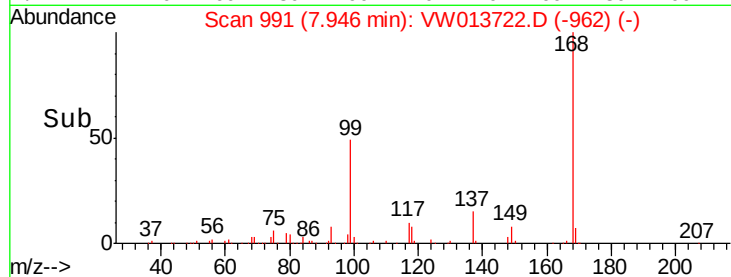
121 0.0 24.5 36.7#



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: 50.134 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013722.D

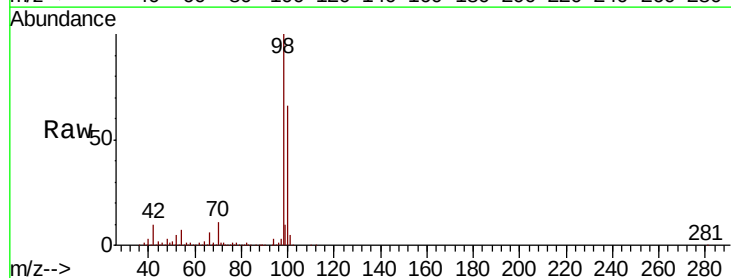
Acq: 24 Oct 2019 20:12

Tgt Ion: 98 Resp: 473816

Ion Ratio Lower Upper

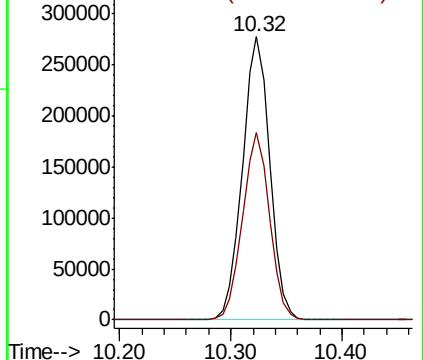
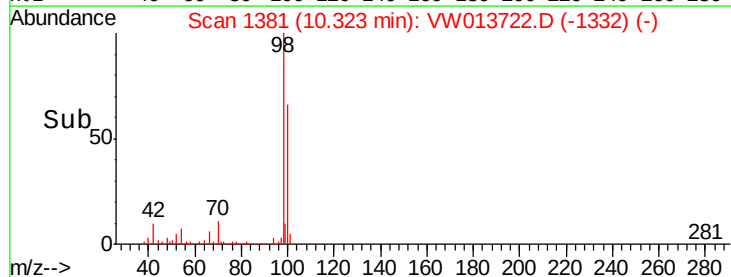
98 100

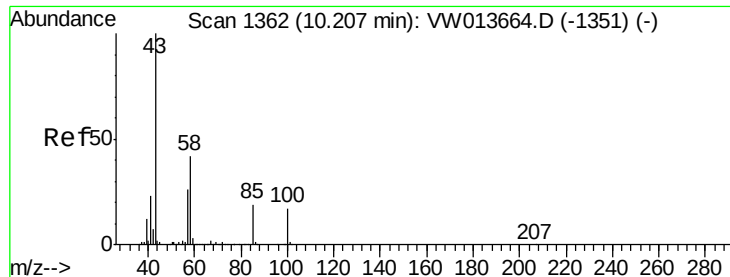
100 65.5 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.337 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW013722.D

Acq: 24 Oct 2019 20:12

Instrument :

MSVOA\_W

ClientSampleId :

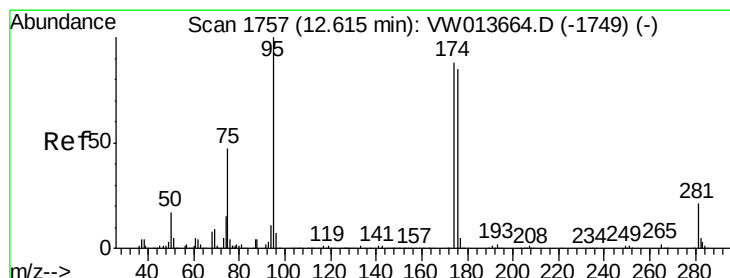
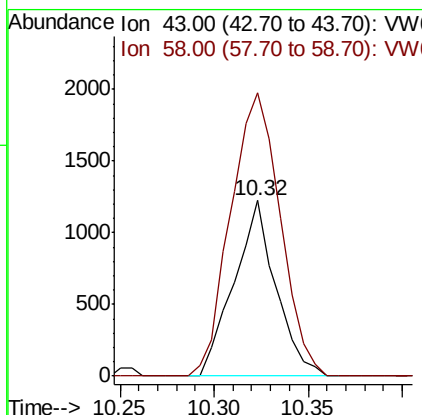
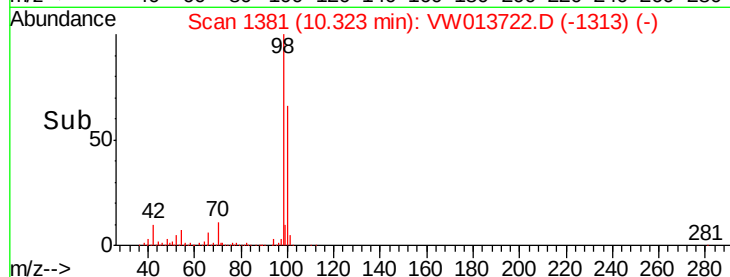
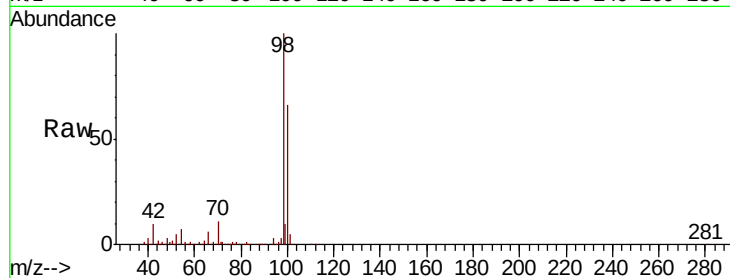
178-60-(2.1)

Tot Ion: 43 Resp: 1892

Ion Ratio Lower Upper

43 100

58 190.6 32.6 49.0#



#62

4-Bromofluorobenzene

Concen: 43.676 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013722.D

Acq: 24 Oct 2019 20:12

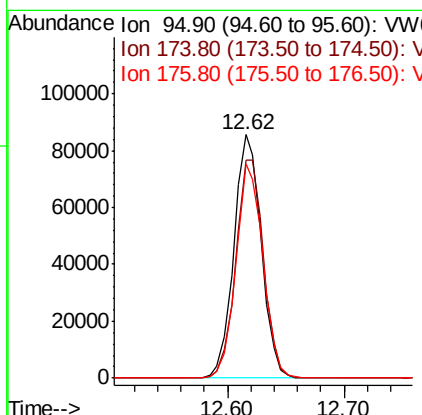
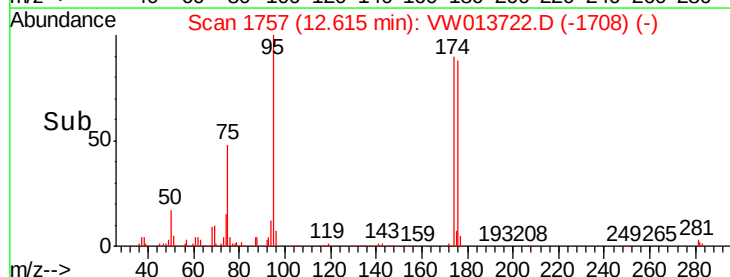
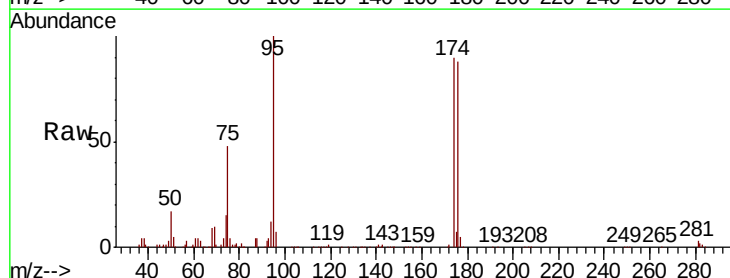
Tgt Ion: 95 Resp: 139770

Ion Ratio Lower Upper

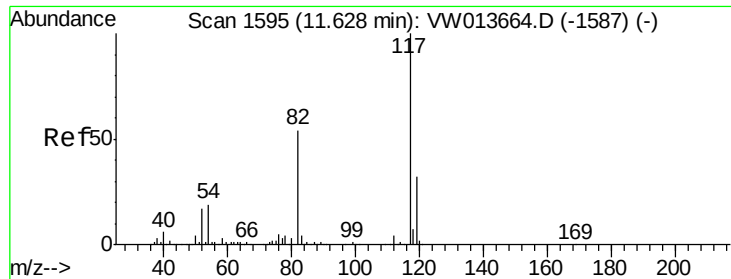
95 100

174 91.3 0.0 183.6

176 87.0 0.0 178.0



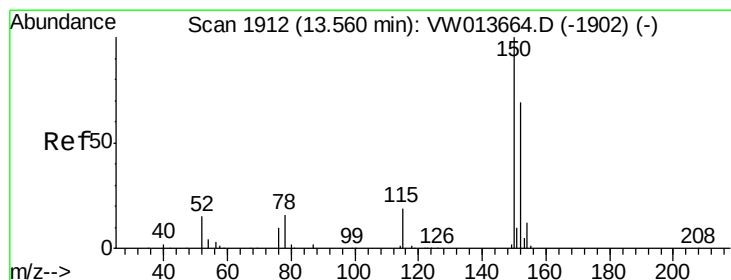
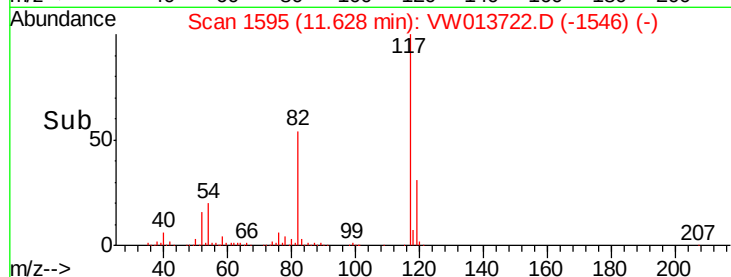
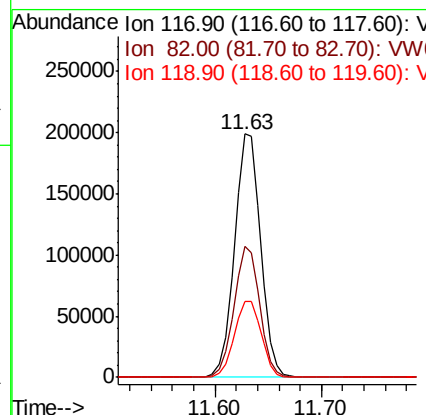
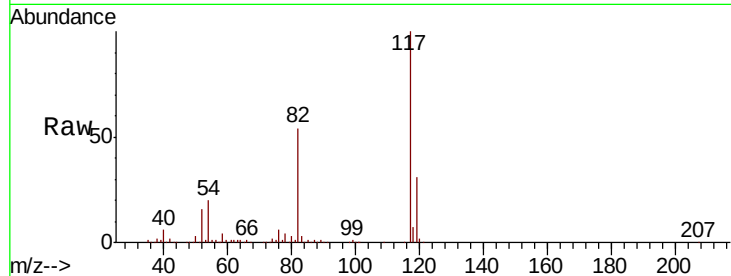




#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.63 min Scan# 1595  
 Delta R.T. 0.00 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

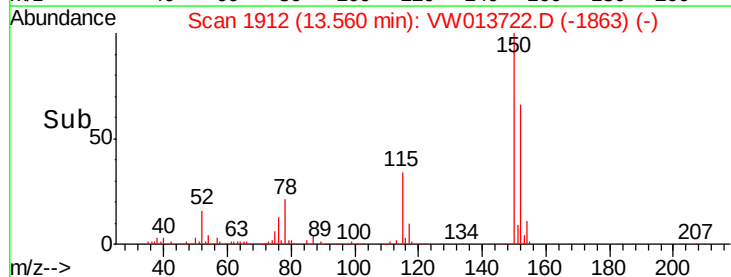
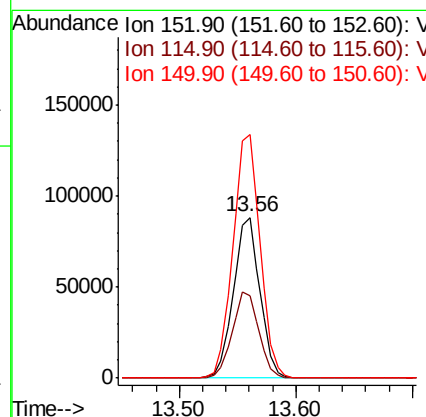
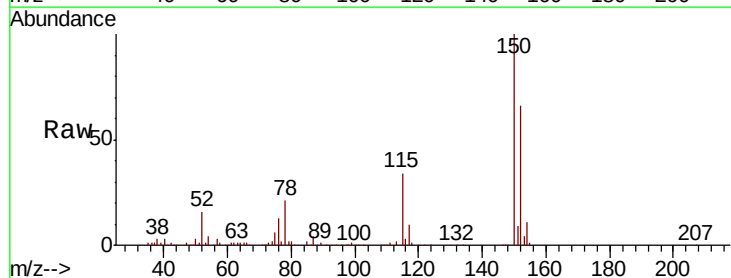
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 178-60-(2.1)

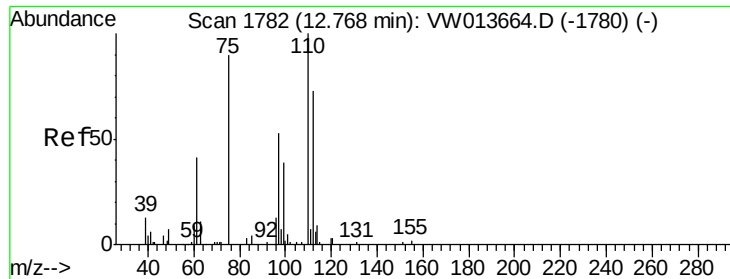
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.9  | 43.6  | 65.4  |
| 119     | 31.3  | 25.4  | 38.2  |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. 0.00 min  
 Lab File: VW013722.D  
 Acq: 24 Oct 2019 20:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.0  | 27.4  | 82.2  |
| 150     | 155.8 | 0.0   | 345.4 |





#76

1,2,3-Trichloropropane

Concen: 65.672 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013722.D

Acq: 24 Oct 2019 20:12

Instrument :

MSVOA\_W

ClientSampleId :

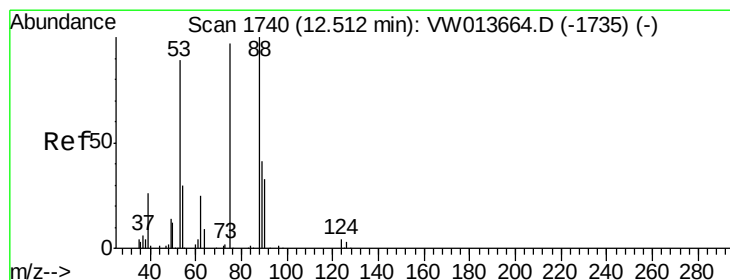
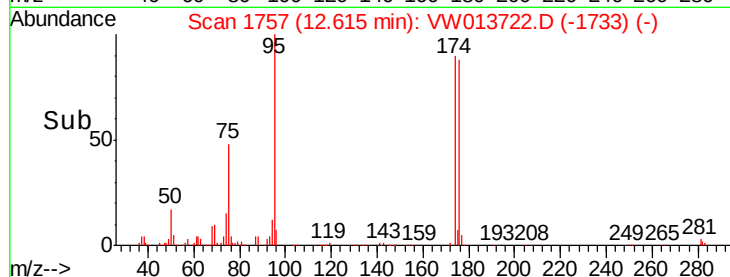
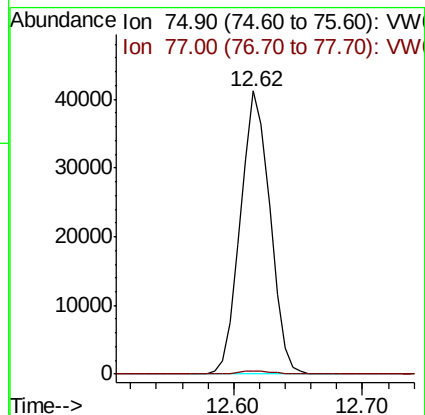
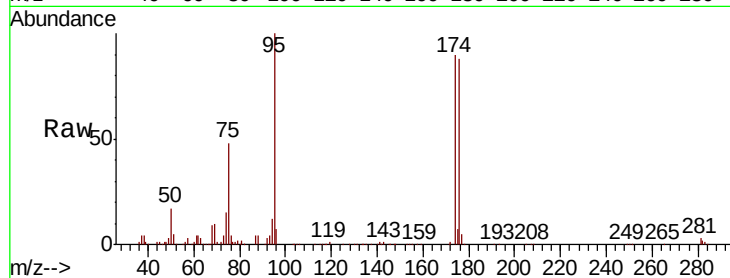
178-60-(2.1)

Tot Ion: 75 Resp: 65567

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 124.112 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013722.D

Acq: 24 Oct 2019 20:12

Tgt Ion: 75 Resp: 65567

Ion Ratio Lower Upper

75 100

53 0.0 71.7 107.5#

89 0.0 35.8 53.8#

