

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090519\  
 Data File : VW012677.D  
 Acq On : 06 Sep 2019 07:48  
 Operator : SY/VA  
 Sample : K4581-06  
 Misc : 3.13G/5ML/MSVOA W/SOIL  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 06 08:58:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 253340   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 386492   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 316170   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 120021   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 162225   | 53.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.74% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 125544   | 54.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.84% |      |
| 50) Toluene-d8              | 10.32  | 98  | 480543   | 51.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.74% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 146001   | 44.28 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 88.56%  |      |

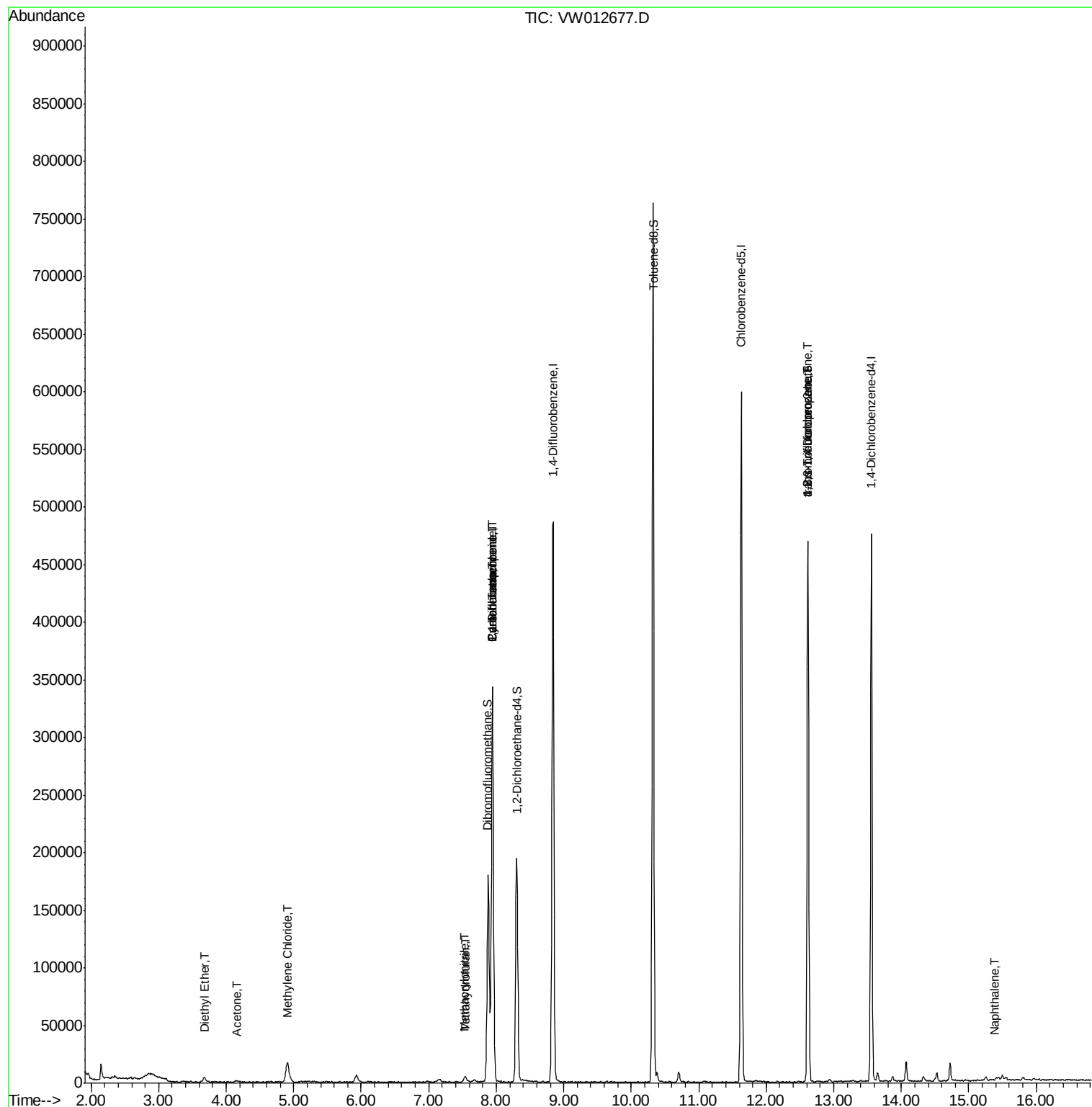
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.68  | 74   | 2105     | 1.493   | ug/l   | 79     |
| 16) Acetone                    | 4.15  | 43   | 1741     | 2.262   | ug/l   | 95     |
| 20) Methylene Chloride         | 4.91  | 84   | 12236    | 4.204   | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 4960     | 7.903   | ug/l   | 96     |
| 31) Cyclohexane                | 7.95  | 56   | 5890     | 1.086   | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 20684    | 5.179   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 25604    | 7.407   | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.53  | 41   | 3008     | 2.338   | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 80026    | 68.462  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 80026    | 150.104 | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 173      | 4.356   | ug/l # | 69     |

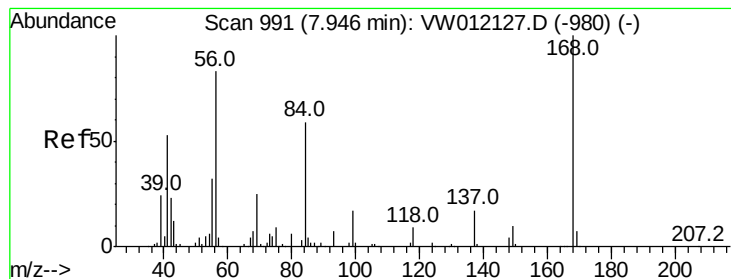
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 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: VW012677.D

Acq: 06 Sep 2019 07:48

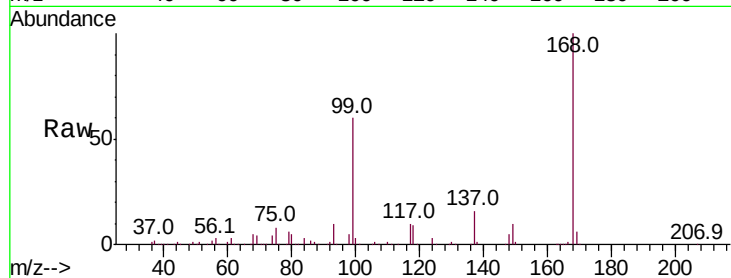
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 253340

Ion Ratio Lower Upper

168 100

99 59.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

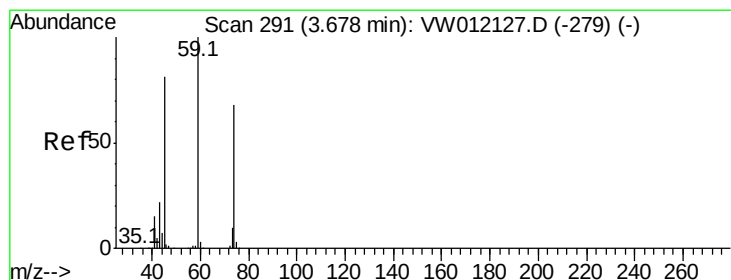
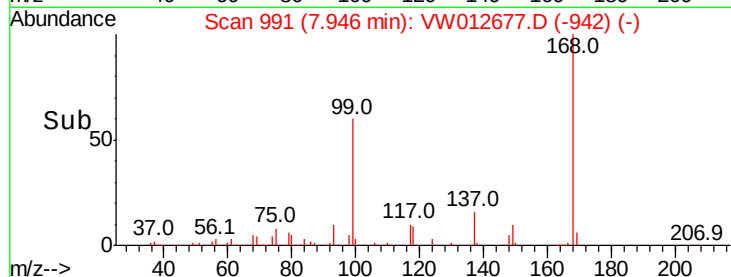
100000

50000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.493 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW012677.D

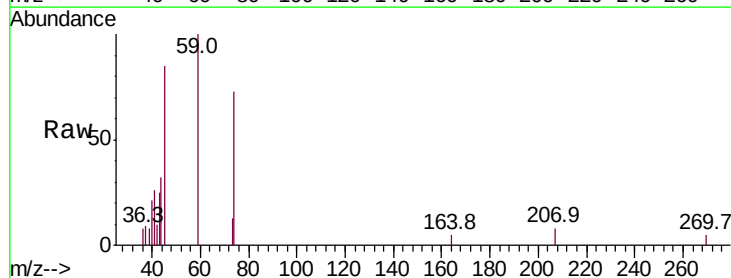
Acq: 06 Sep 2019 07:48

Tgt Ion: 74 Resp: 2105

Ion Ratio Lower Upper

74 100

45 141.9 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1200

1000

800

600

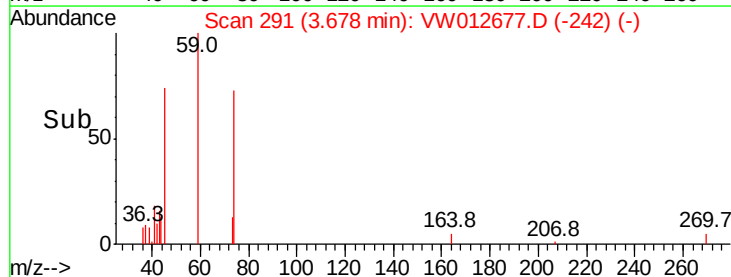
400

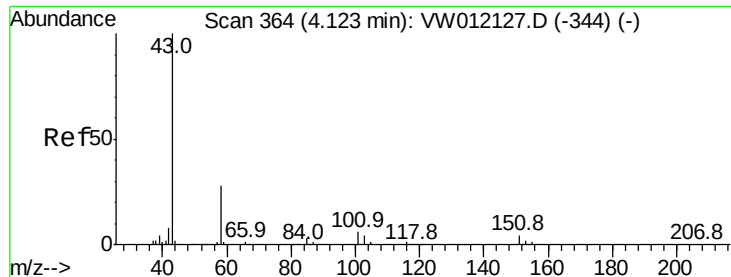
200

0

3.60 3.65 3.70 3.75

Time-->





#16

Acetone

Concen: 2.262 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.03 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

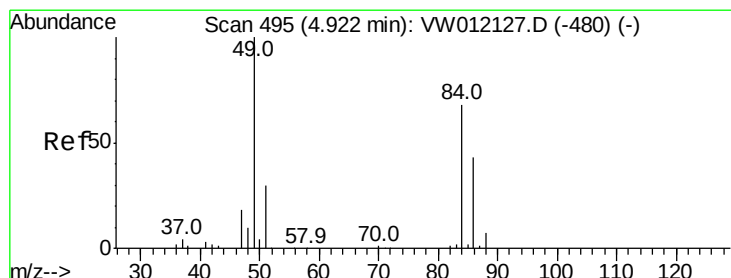
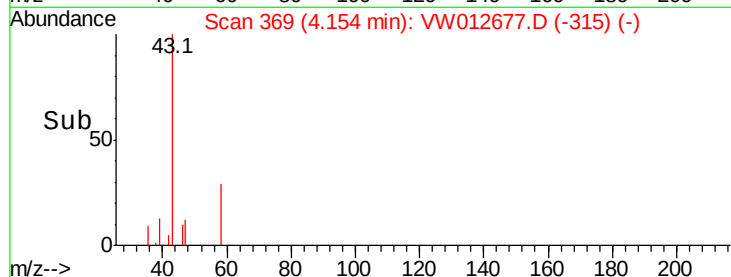
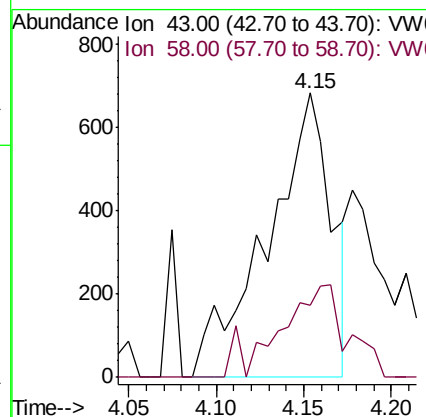
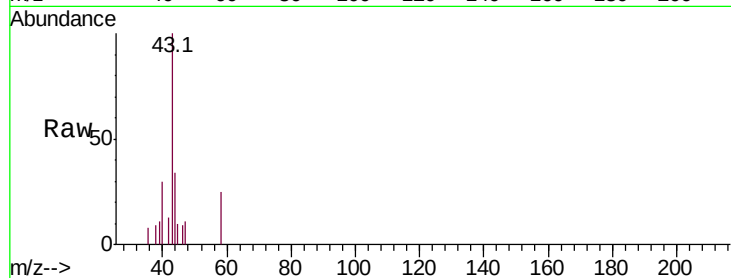
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 1741

Ion Ratio Lower Upper

43 100

58 25.2 22.4 33.6



#20

Methylene Chloride

Concen: 4.204 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

Tgt Ion: 84 Resp: 12236

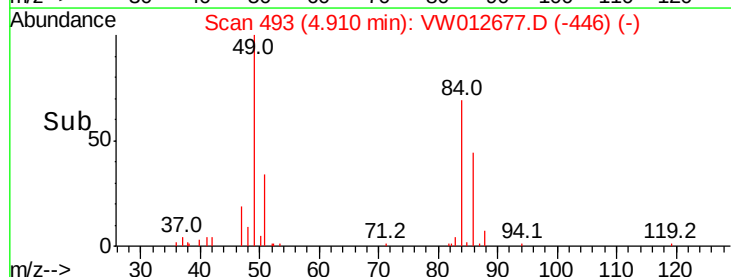
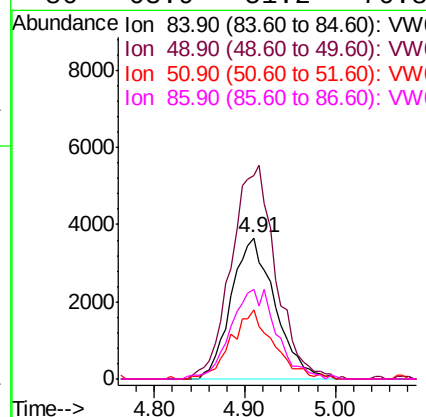
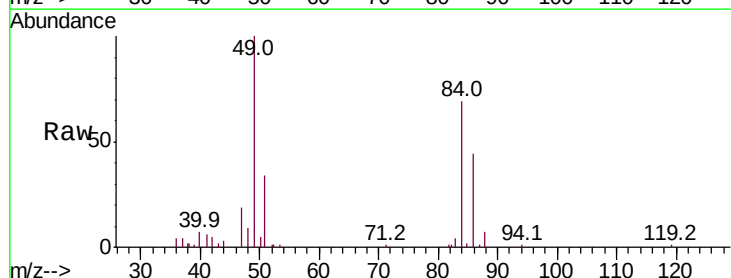
Ion Ratio Lower Upper

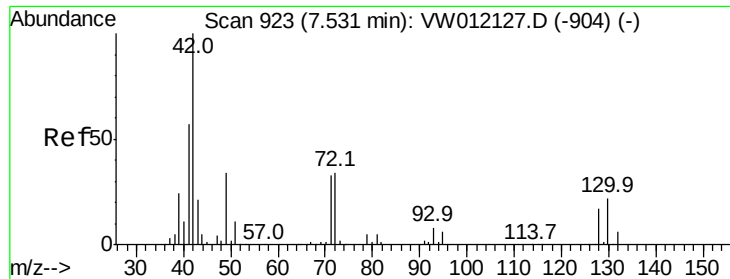
84 100

49 143.0 117.8 176.8

51 49.5 35.6 53.4

86 63.9 51.2 76.8





#29

Tetrahydrofuran

Concen: 7.903 ug/l

RT: 7.54 min Scan# 925

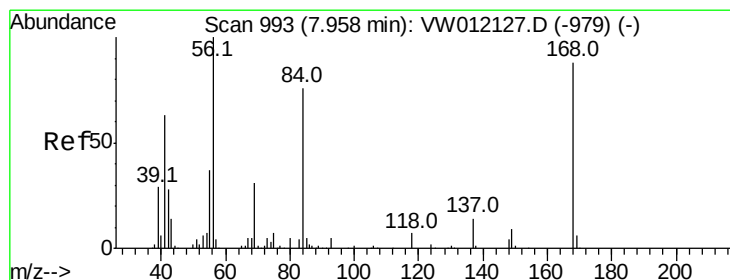
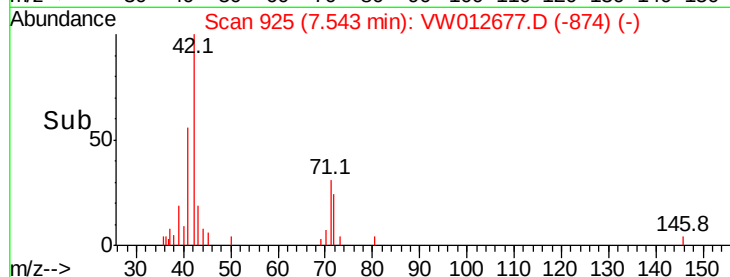
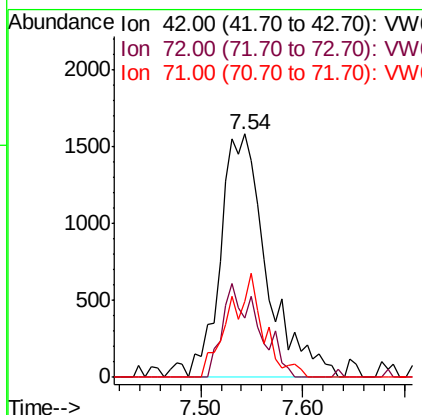
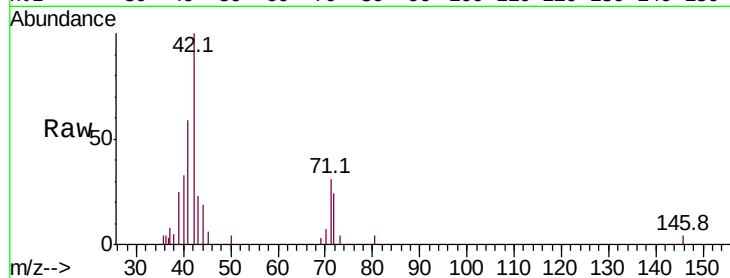
Delta R.T. 0.01 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

Instrument :  
MSVOA\_W  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 4960  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 29.7  | 27.3  | 40.9  |
| 71       | 32.2  | 25.5  | 38.3  |



#31

Cyclohexane

Concen: 1.086 ug/l

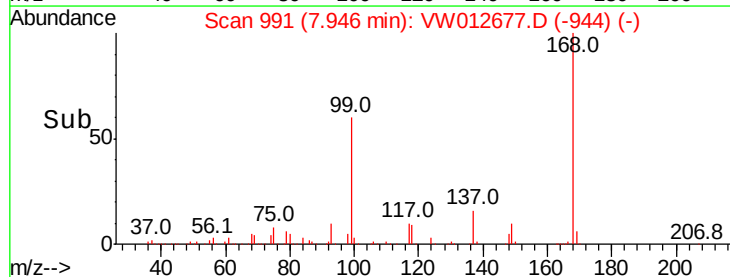
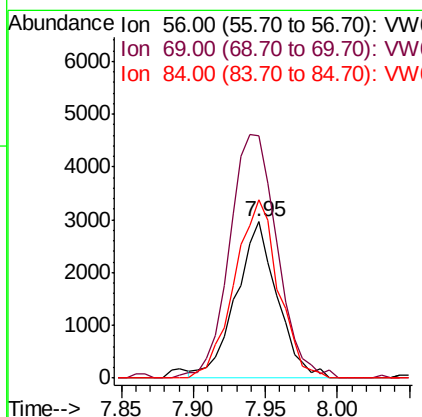
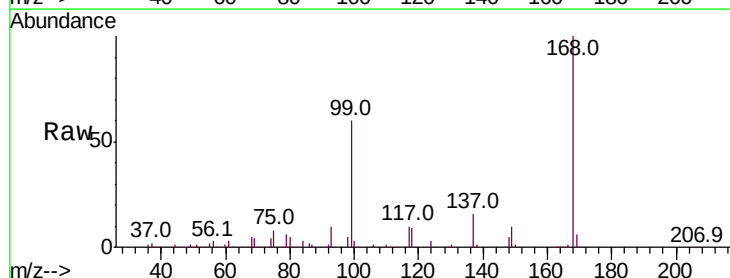
RT: 7.95 min Scan# 991

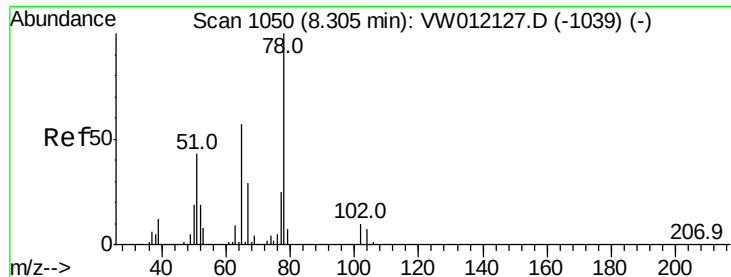
Delta R.T. -0.01 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5890  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 154.5 | 24.9  | 37.3# |
| 84       | 113.7 | 60.6  | 90.8# |

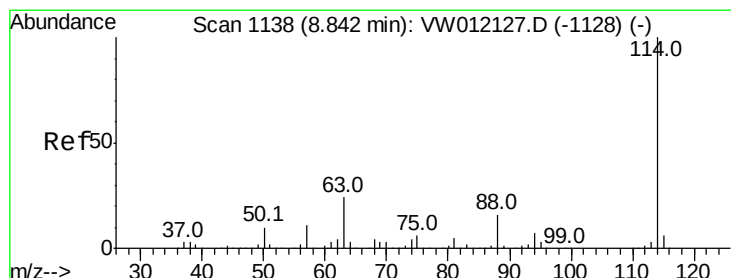
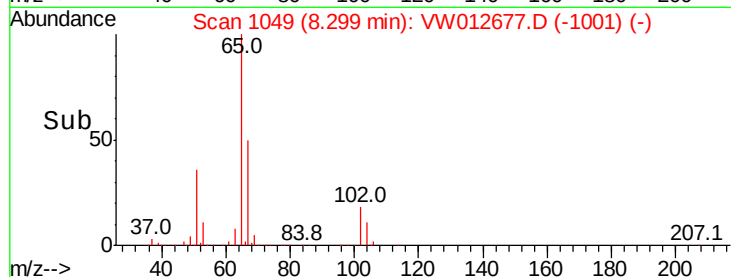
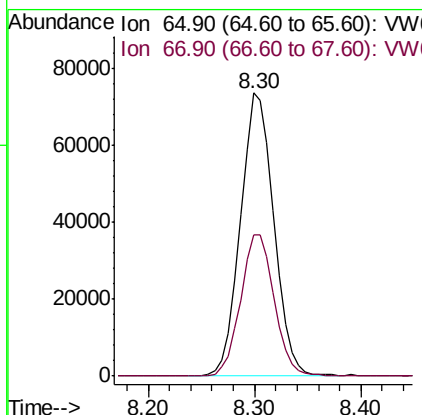
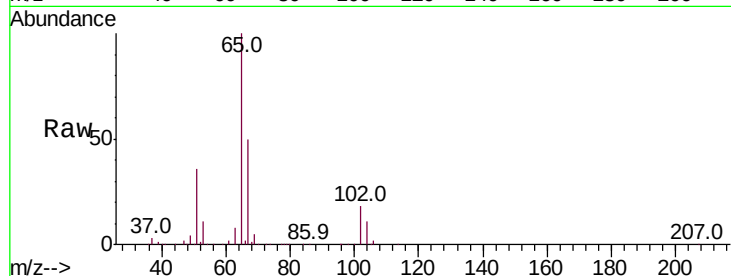




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.867 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW012677.D  
 Acq: 06 Sep 2019 07:48

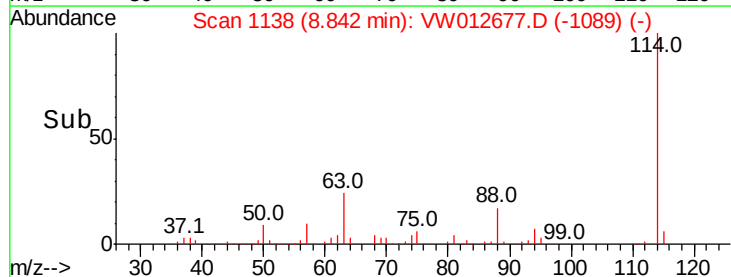
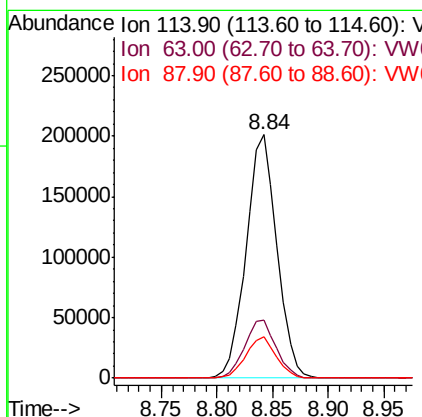
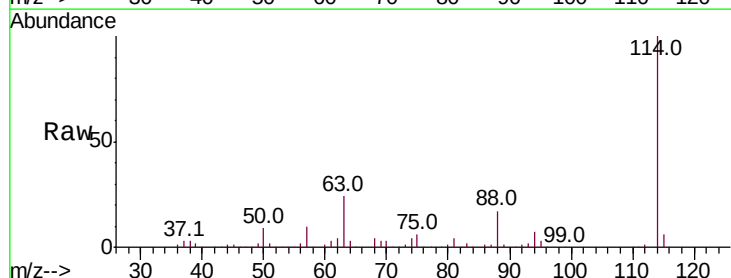
Instrument :  
 MSVOA\_W  
 ClientSampleId :

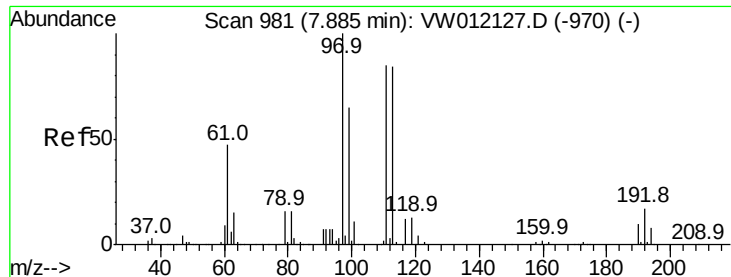
Tot Ion: 65 Resp: 162225  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW012677.D  
 Acq: 06 Sep 2019 07:48

Tgt Ion: 114 Resp: 386492  
 Ion Ratio Lower Upper  
 114 100  
 63 23.6 0.0 48.6  
 88 17.2 0.0 32.2

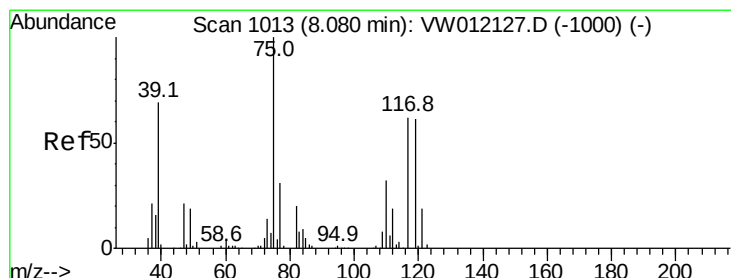
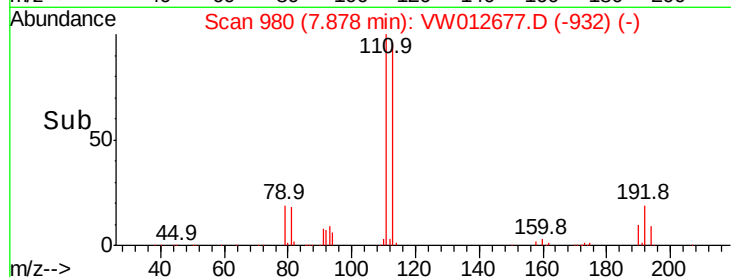
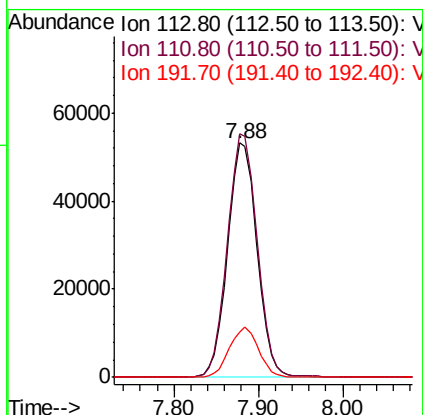
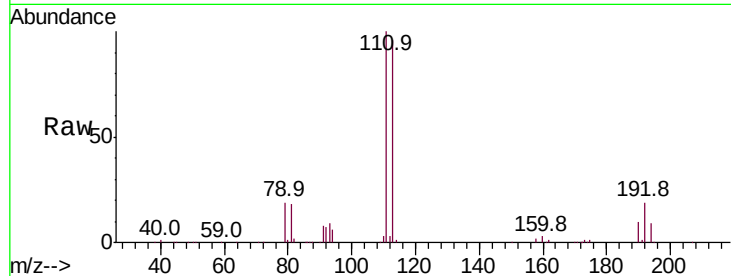




#35  
 Dibromofluoromethane  
 Concen: 54.419 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW012677.D  
 Acq: 06 Sep 2019 07:48

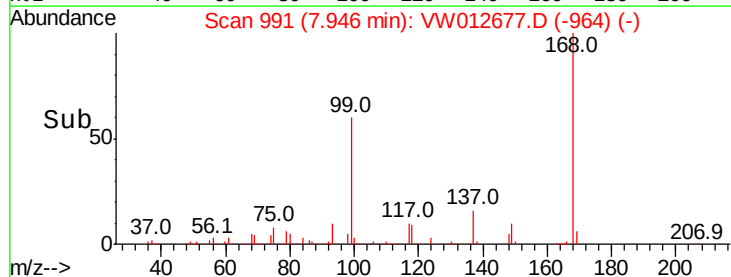
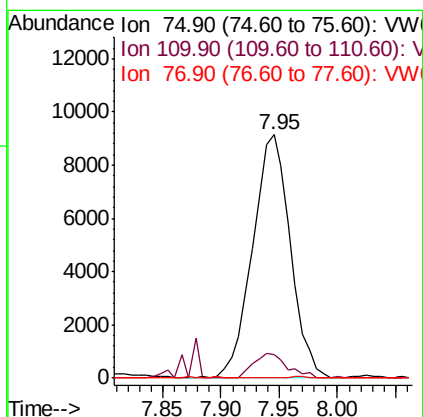
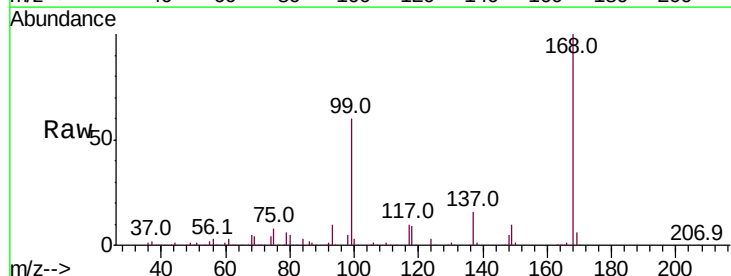
Instrument :  
 MSVOA\_W  
 ClientSampleId :

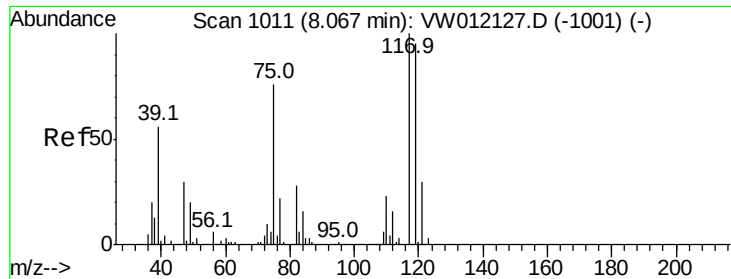
Tot Ion:113 Resp: 125544  
 Ion Ratio Lower Upper  
 113 100  
 111 105.3 82.7 124.1  
 192 20.9 16.2 24.2



#36  
 1,1-Dichloropropene  
 Concen: 5.179 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW012677.D  
 Acq: 06 Sep 2019 07:48

Tgt Ion: 75 Resp: 20684  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 15.6 46.8#  
 77 0.0 24.6 36.8#

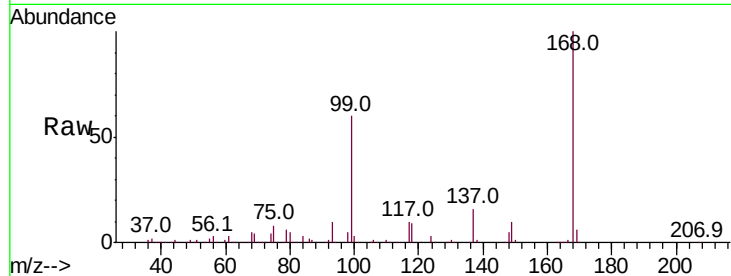




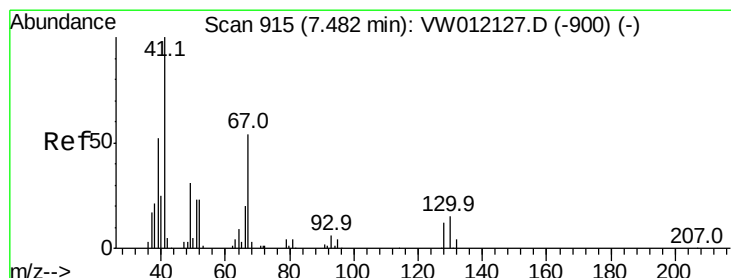
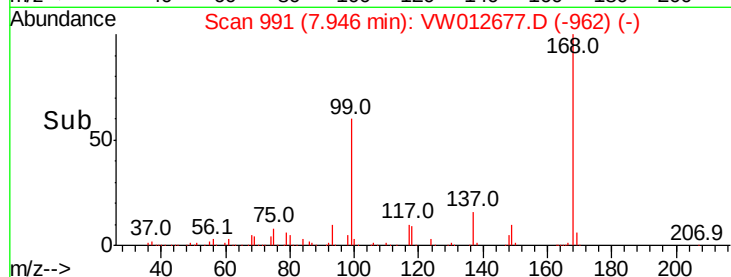
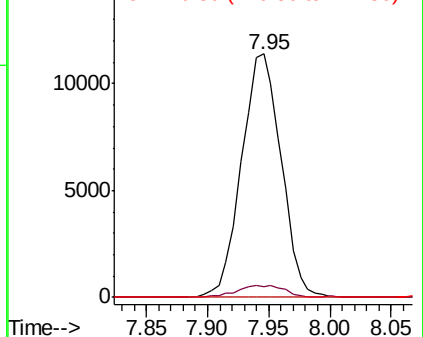
#38  
Carbon Tetrachloride  
Concen: 7.407 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion:117 Resp: 25604  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.2 114.2#  
121 0.0 23.8 35.8#

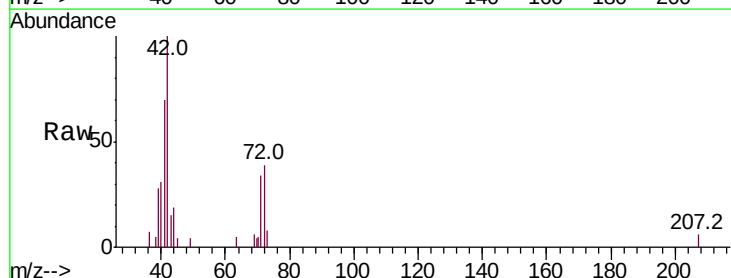


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

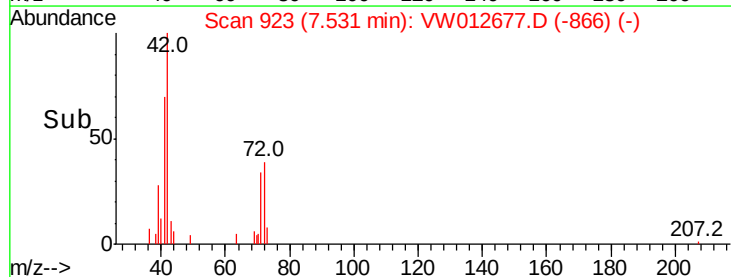
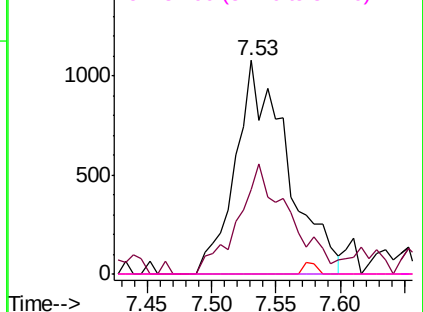


#41  
Methacrylonitrile  
Concen: 2.338 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.05 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

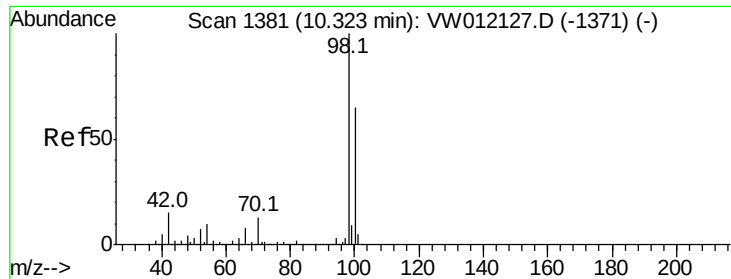
Tgt Ion: 41 Resp: 3008  
Ion Ratio Lower Upper  
41 100  
39 51.9 45.8 68.8  
67 0.0 46.2 69.4#  
52 0.0 21.0 31.6#



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW



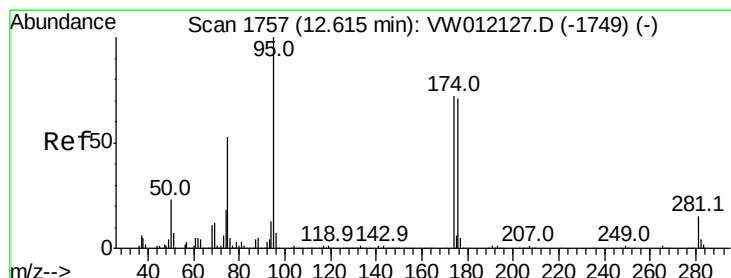
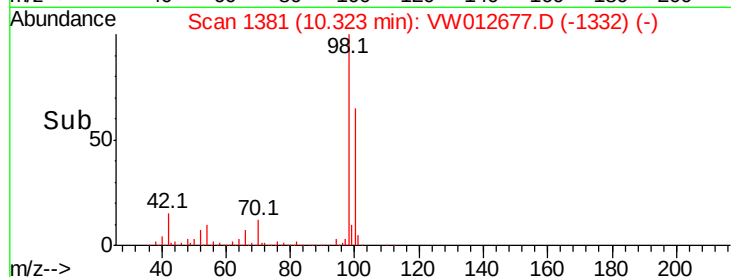
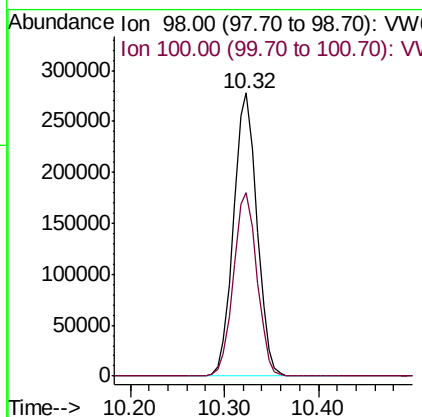
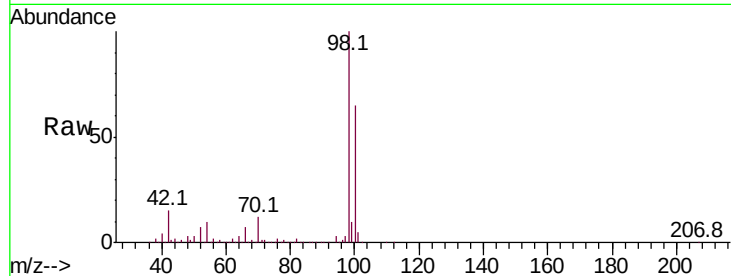




#50  
Toluene-d8  
Concen: 51.372 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

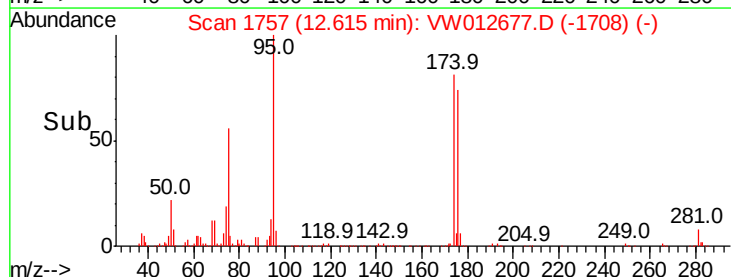
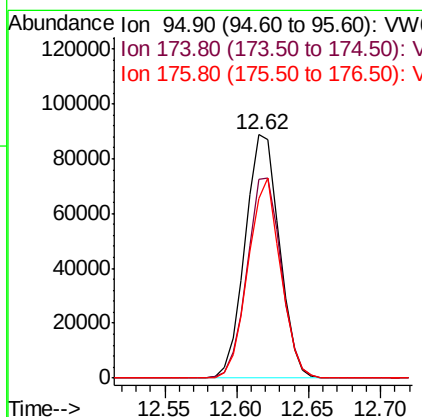
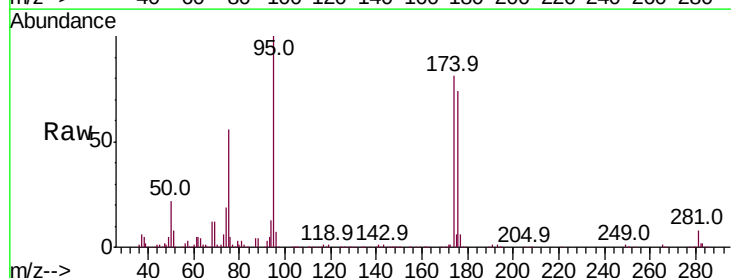
Instrument :  
MSVOA\_W  
ClientSampleId :

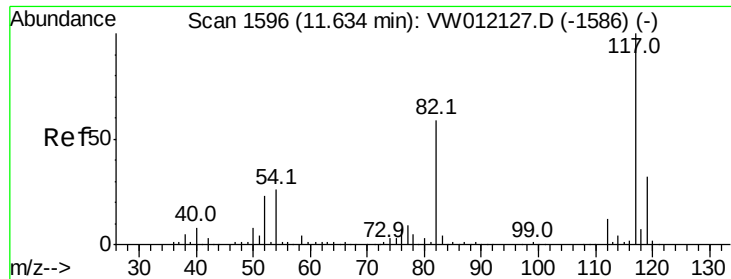
Tot Ion: 98 Resp: 480543  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 44.279 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

Tgt Ion: 95 Resp: 146001  
Ion Ratio Lower Upper  
95 100  
174 81.6 0.0 150.8  
176 77.7 0.0 148.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

Instrument :

MSVOA\_W

ClientSampleId :

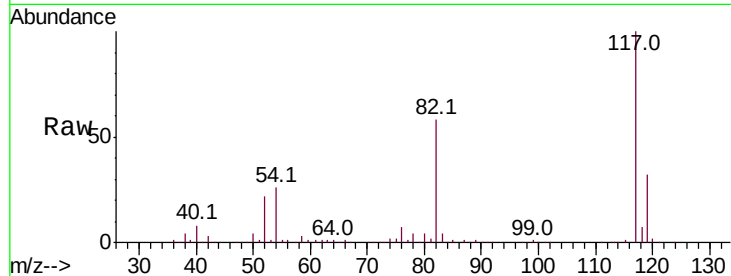
Tot Ion:117 Resp: 316170

Ion Ratio Lower Upper

117 100

82 57.9 47.4 71.2

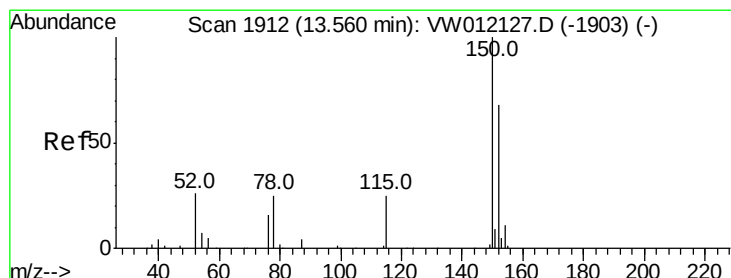
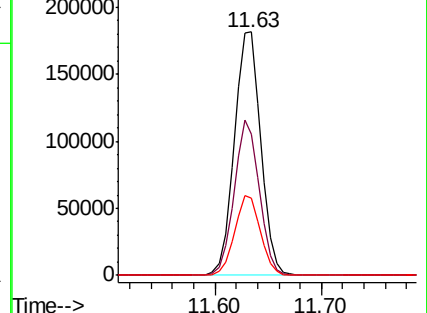
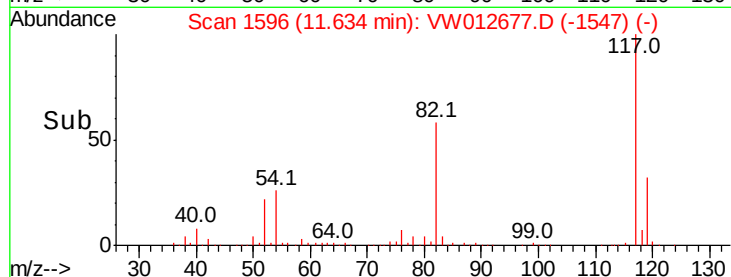
119 31.8 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

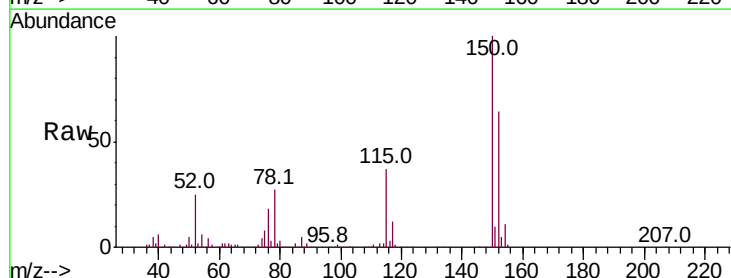
Tgt Ion:152 Resp: 120021

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.3

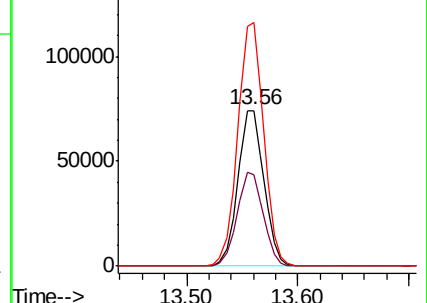
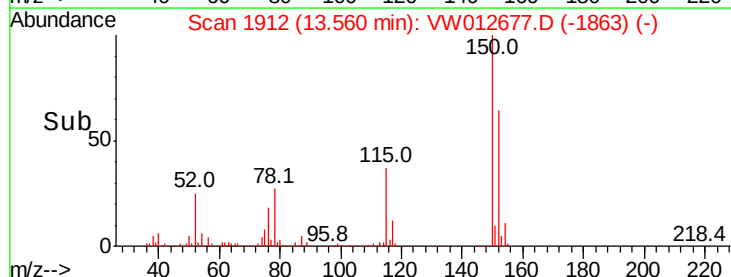
150 155.8 0.0 345.8

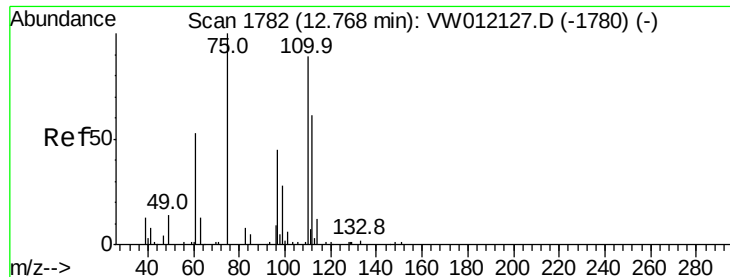


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



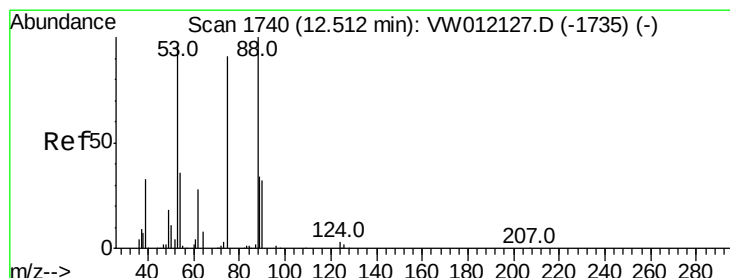
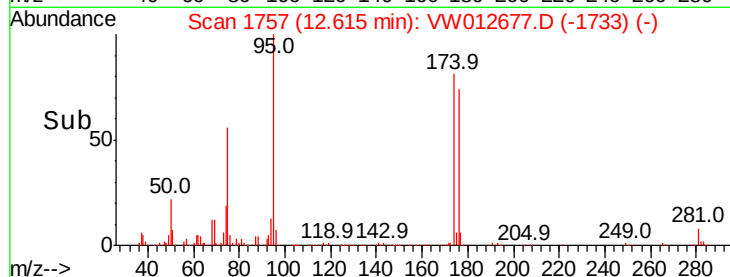
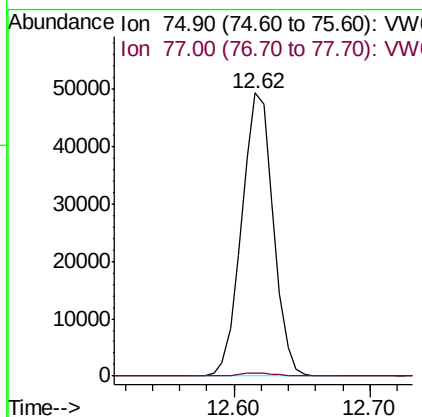
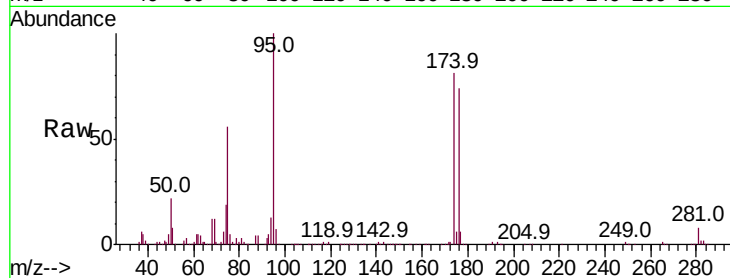


#76

1,2,3-Trichloropropane  
Concen: 68.462 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.15 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

Instrument :  
MSVOA\_W  
ClientSampleId :

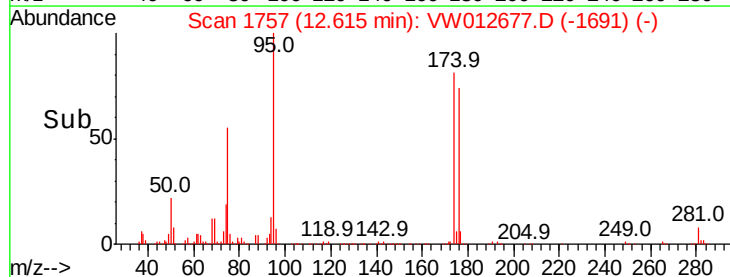
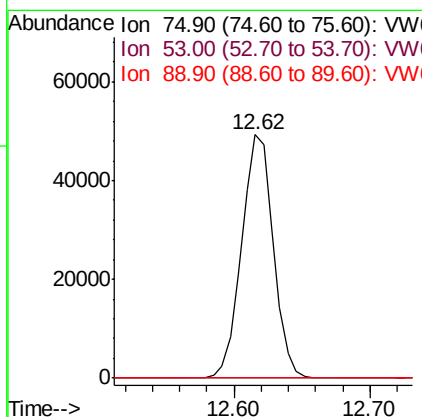
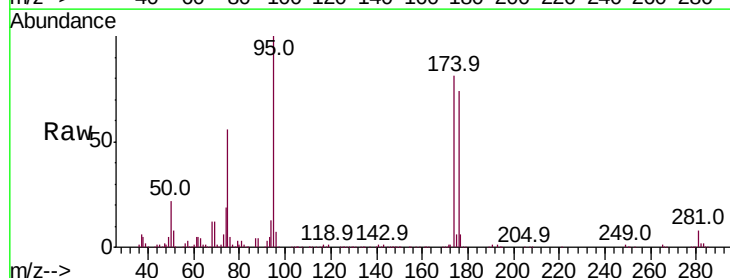
Tot Ion: 75 Resp: 80026  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#

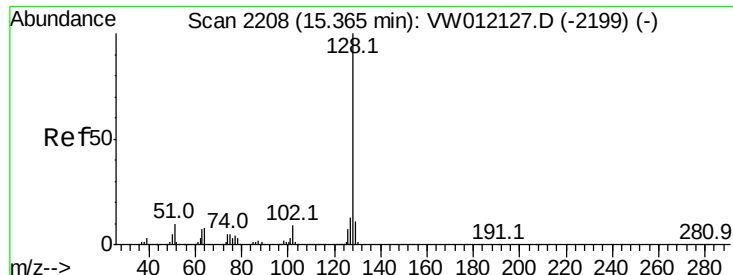


#81

trans-1,4-Dichloro-2-butene  
Concen: 150.104 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW012677.D  
Acq: 06 Sep 2019 07:48

Tgt Ion: 75 Resp: 80026  
Ion Ratio Lower Upper  
75 100  
53 0.1 89.4 134.0#  
89 0.1 34.5 51.7#





#95

Naphthalene

Concen: 4.356 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012677.D

Acq: 06 Sep 2019 07:48

Instrument :

MSVOA\_W

ClientSampleId :

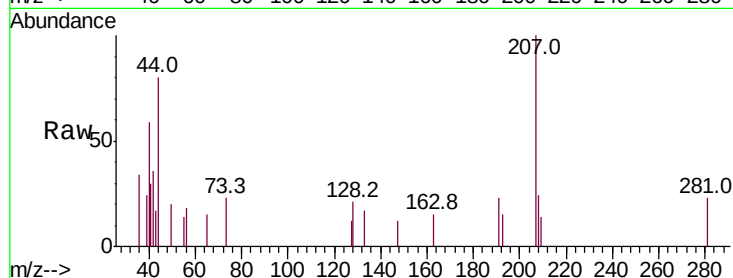
Tot Ion:128 Resp: 173

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

