

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
 Data File : VW012867.D  
 Acq On : 10 Sep 2019 13:50  
 Operator : SY/VA  
 Sample : K4623-19RE  
 Misc : 4.97G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PAR-11-E2-(0)

Quant Time: Sep 10 17:49:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sun Sep 08 05:04:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 216319   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 327750   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 270117   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 108834   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 114938   | 47.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.10%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 95739    | 49.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.26%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 387380   | 50.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.48% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 122492   | 44.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.40%  |          |

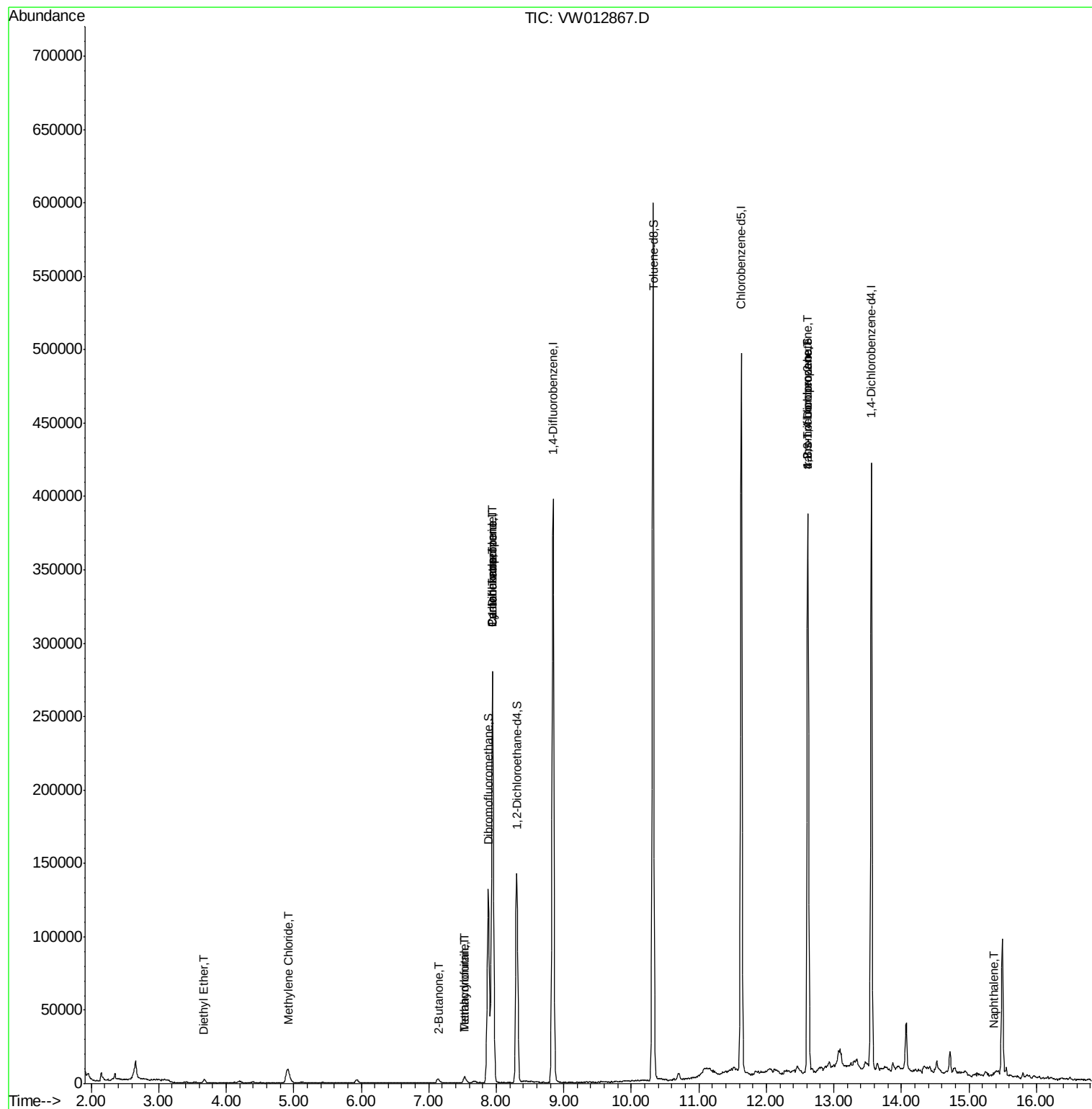
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 1445     | 1.426   | ug/l   | 99     |
| 20) Methylene Chloride         | 4.91  | 84   | 7411     | 3.595   | ug/l # | 93     |
| 25) 2-Butanone                 | 7.14  | 43   | 176      | 19.847  | ug/l # | 53     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 3659     | 6.876   | ug/l   | 96     |
| 31) Cyclohexane                | 7.95  | 56   | 4511     | 1.270   | ug/l # | 12     |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16268    | 5.586   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20408    | 7.109   | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.54  | 41   | 2202     | 5.450   | ug/l # | 60     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 62736    | 56.373  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 62736    | 119.232 | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 626      | 4.564   | ug/l # | 76     |

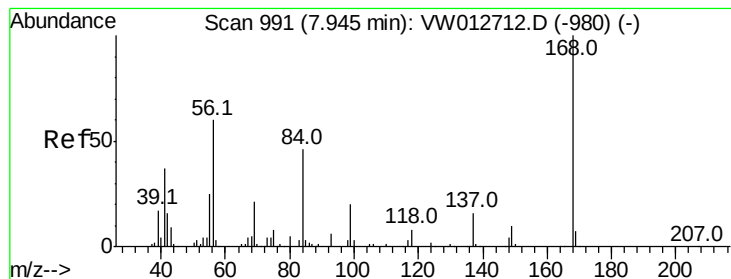
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091019\  
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Instrument :  
MSVOA\_W  
ClientSampleId :  
PAR-11-E2-(0)

Quant Time: Sep 10 17:49:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
Quant Title : SW846 8260  
QLast Update : Sun Sep 08 05:04:40 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: VW012867.D

Acq: 10 Sep 2019 13:50

Instrument :

MSVOA\_W

ClientSampleId :

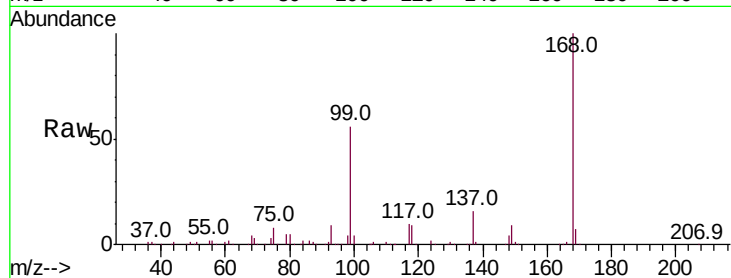
PAR-11-E2-(0)

Tot Ion:168 Resp: 216319

Ion Ratio Lower Upper

168 100

99 56.1 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

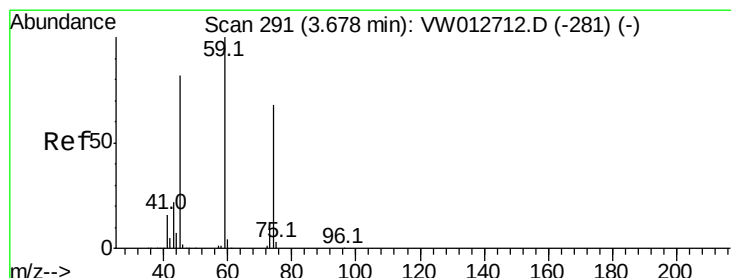
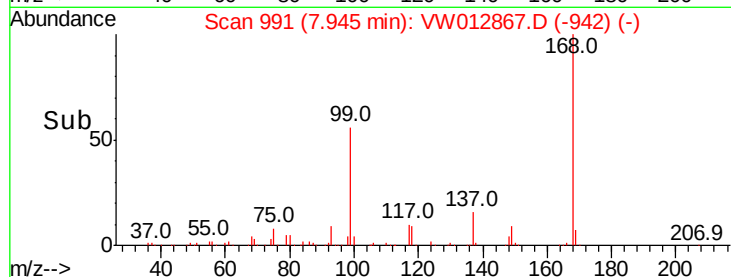
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.426 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW012867.D

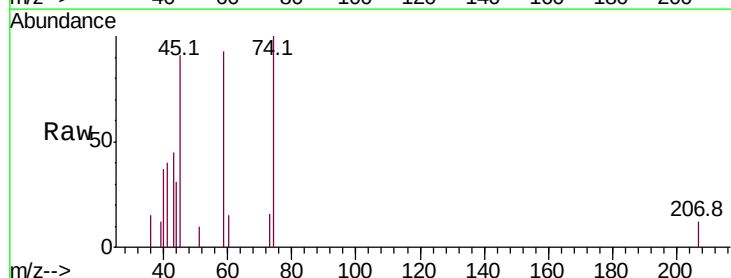
Acq: 10 Sep 2019 13:50

Tgt Ion: 74 Resp: 1445

Ion Ratio Lower Upper

74 100

45 116.5 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

800

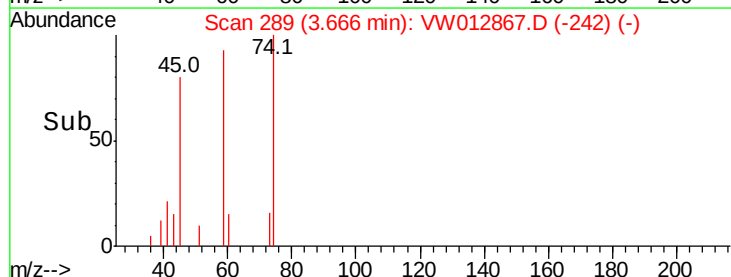
600

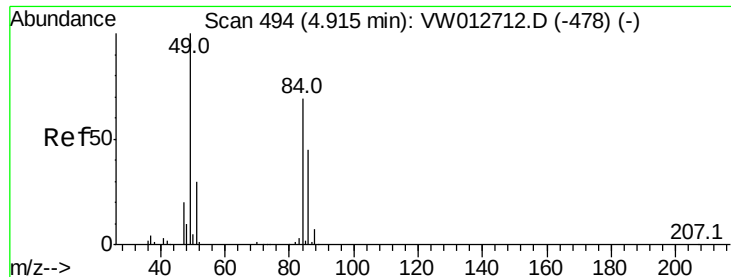
400

200

0

Time--> 3.60 3.65 3.70 3.75

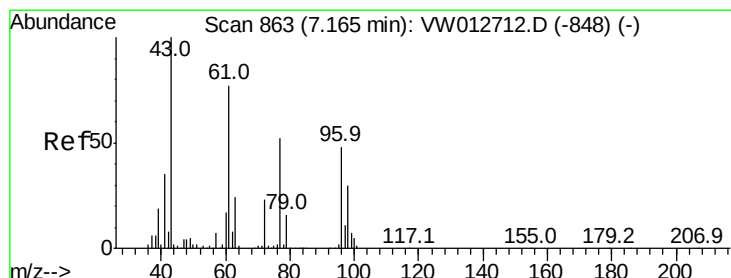
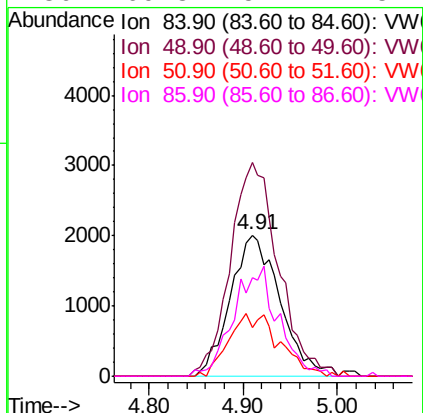
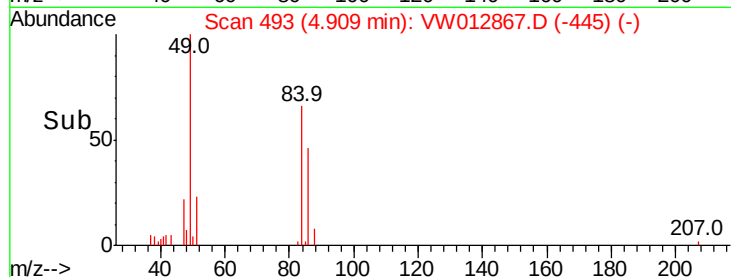
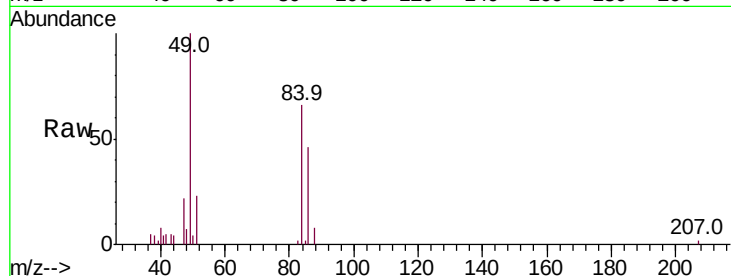




#20  
Methylene Chloride  
Concen: 3.595 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

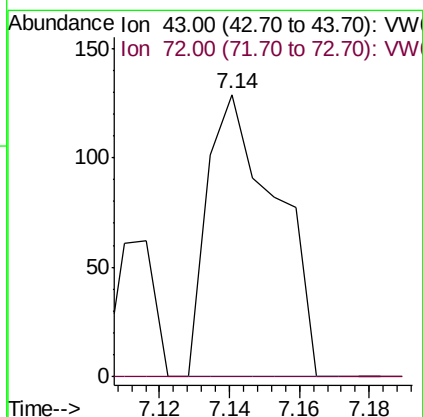
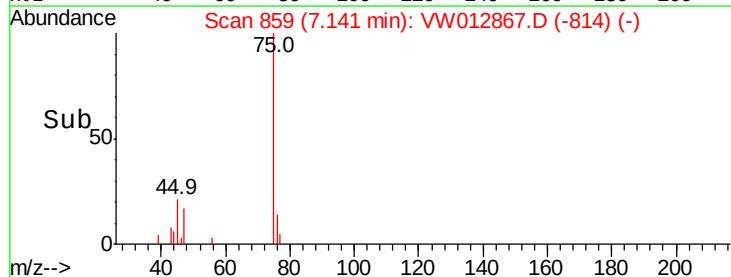
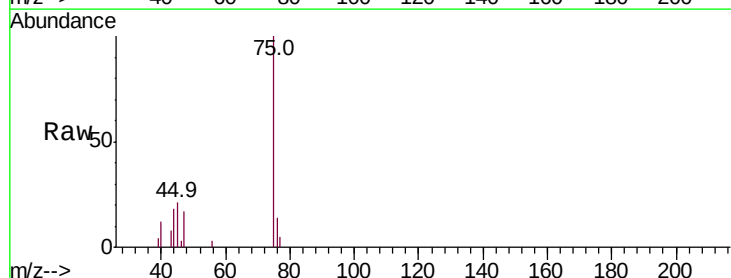
Instrument :  
MSVOA\_W  
ClientSampleId :  
PAR-11-E2-(0)

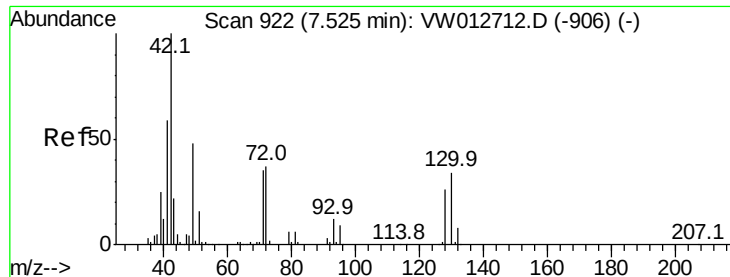
Tot Ion: 84 Resp: 7411  
Ion Ratio Lower Upper  
84 100  
49 151.6 115.4 173.0  
51 34.3 34.9 52.3#  
86 69.8 52.2 78.4



#25  
2-Butanone  
Concen: 19.847 ug/l  
RT: 7.14 min Scan# 859  
Delta R.T. -0.02 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

Tgt Ion: 43 Resp: 176  
Ion Ratio Lower Upper  
43 100  
72 0.0 18.0 27.0#

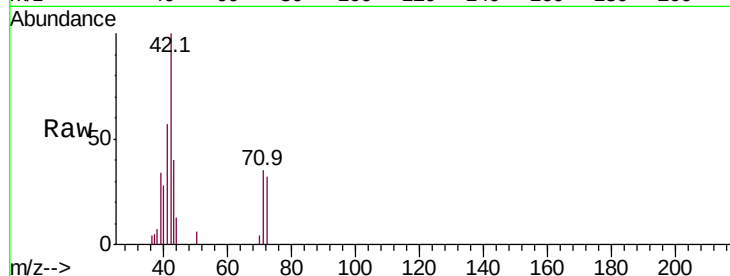




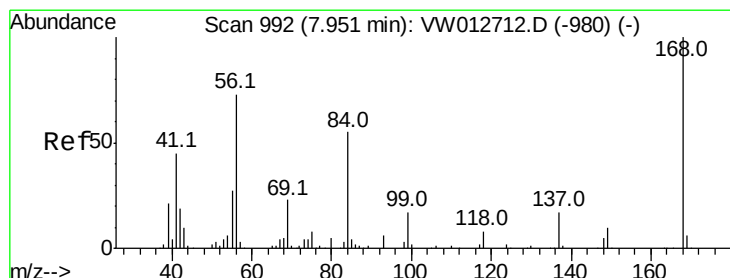
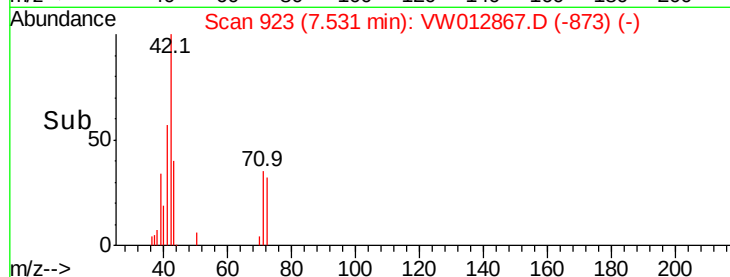
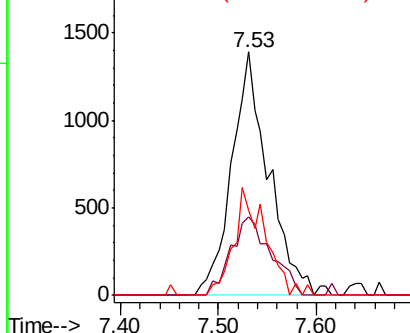
#29  
Tetrahydrofuran  
Concen: 6.876 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.01 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
PAR-11-E2-(0)

Tot Ion: 42 Resp: 3659  
Ion Ratio Lower Upper  
42 100  
72 34.8 28.4 42.6  
71 38.2 27.1 40.7

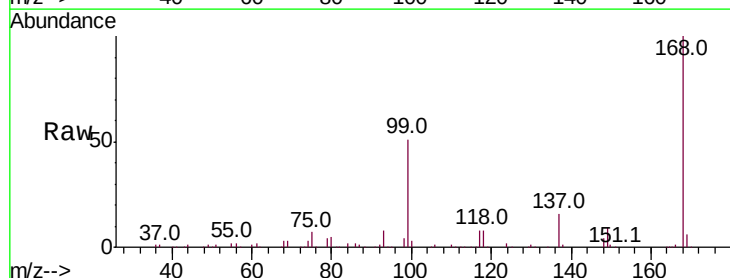


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

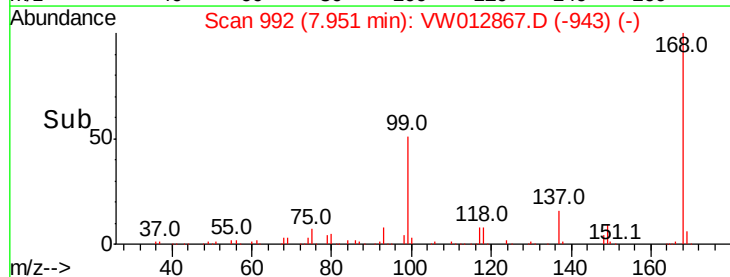
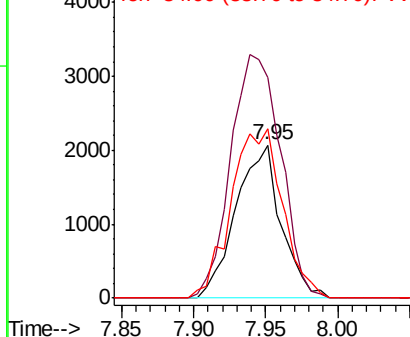


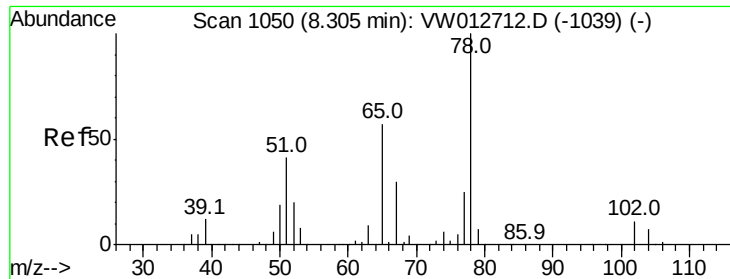
#31  
Cyclohexane  
Concen: 1.270 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

Tgt Ion: 56 Resp: 4511  
Ion Ratio Lower Upper  
56 100  
69 143.9 25.7 38.5#  
84 110.2 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

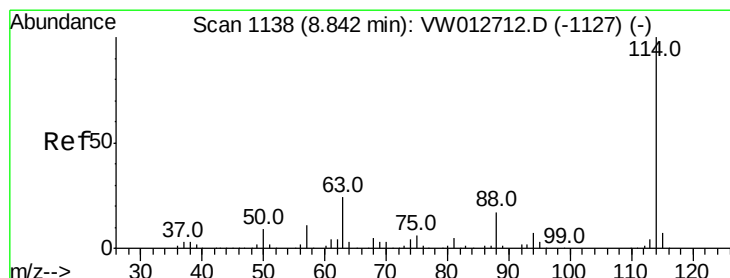
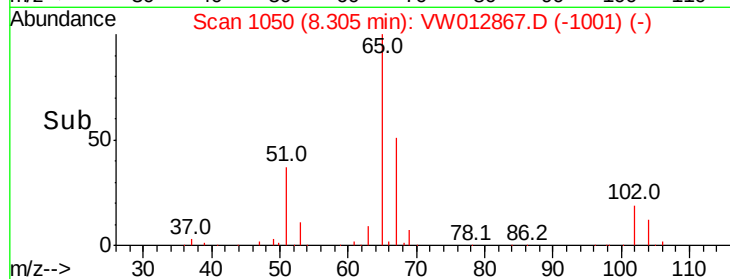
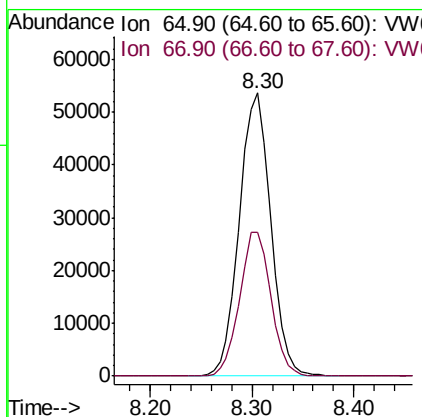
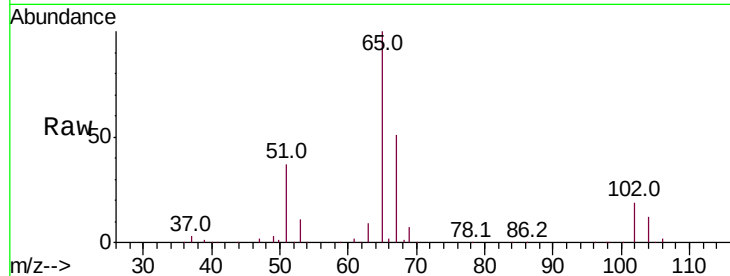




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.554 ug/l  
 RT: 8.30 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW012867.D  
 Acq: 10 Sep 2019 13:50

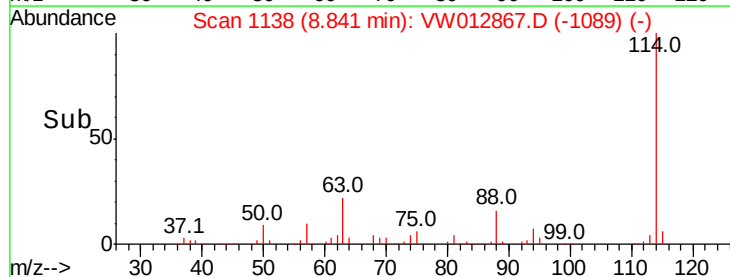
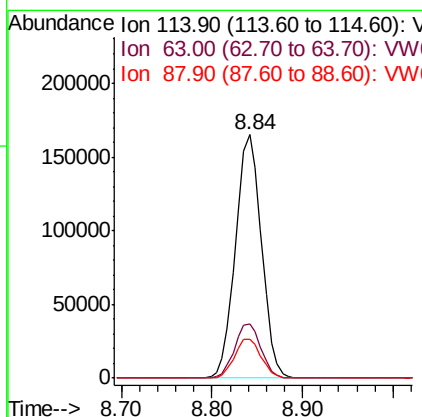
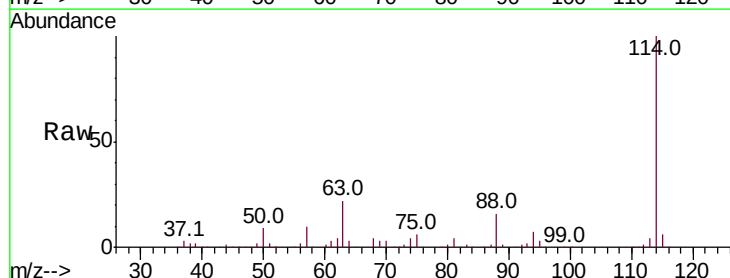
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PAR-11-E2-(0)

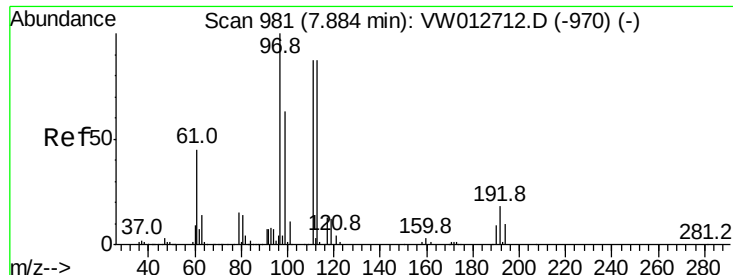
Tot Ion: 65 Resp: 114938  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012867.D  
 Acq: 10 Sep 2019 13:50

Tgt Ion: 114 Resp: 327750  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 47.2  
 88 16.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.133 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012867.D

Acq: 10 Sep 2019 13:50

Instrument :

MSVOA\_W

ClientSampleId :

PAR-11-E2-(0)

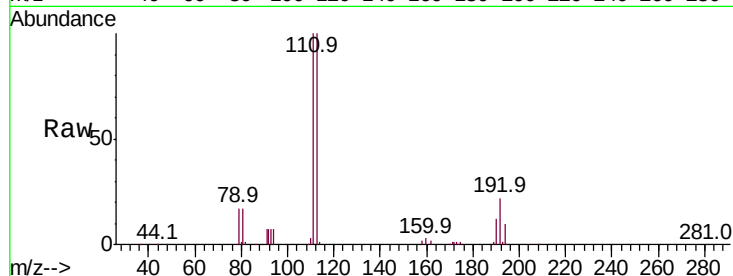
Tot Ion:113 Resp: 95739

Ion Ratio Lower Upper

113 100

111 102.0 80.2 120.4

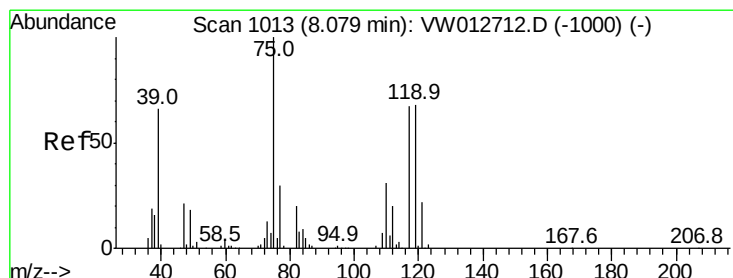
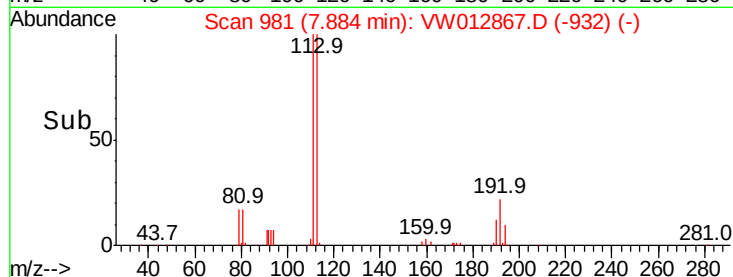
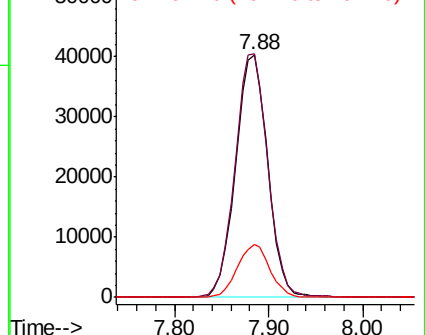
192 21.9 17.3 25.9



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: 5.586 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012867.D

Acq: 10 Sep 2019 13:50

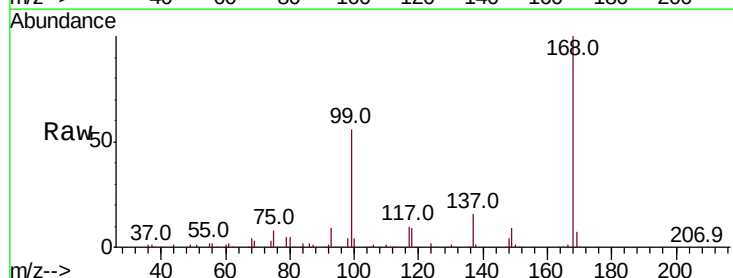
Tgt Ion: 75 Resp: 16268

Ion Ratio Lower Upper

75 100

110 8.9 15.9 47.7#

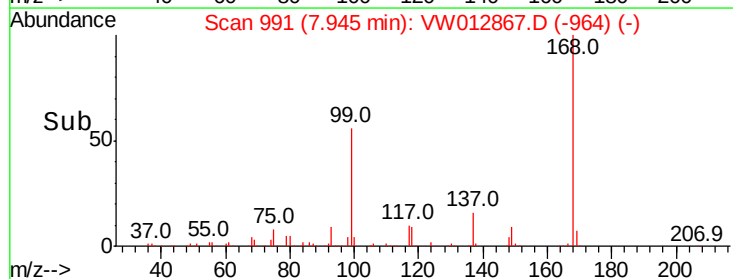
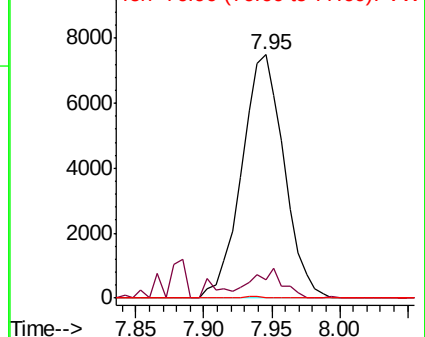
77 0.3 25.0 37.4#

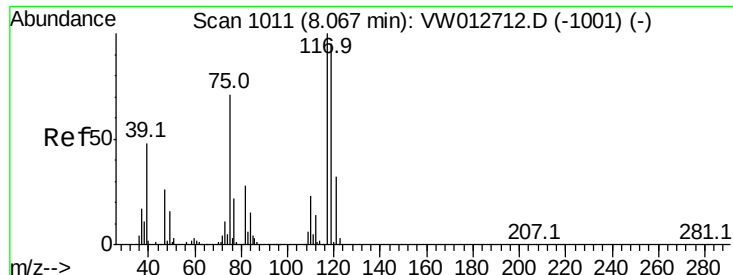


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.109 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012867.D

Acq: 10 Sep 2019 13:50

Instrument :

MSVOA\_W

ClientSampleId :

PAR-11-E2-(0)

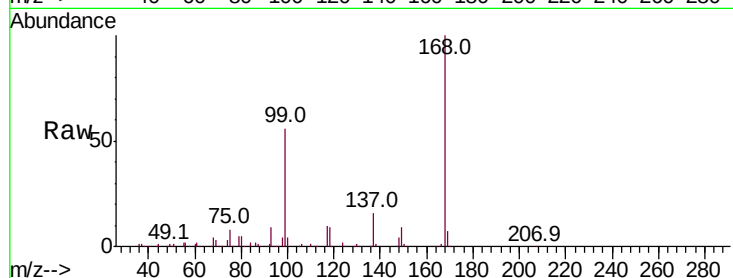
Tot Ion:117 Resp: 20408

Ion Ratio Lower Upper

117 100

119 4.1 76.2 114.2#

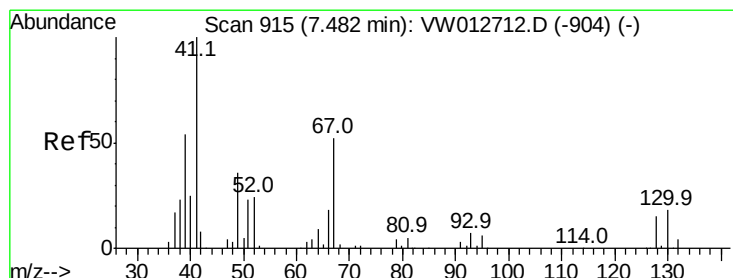
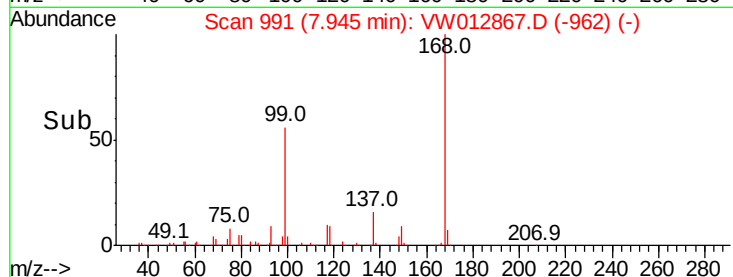
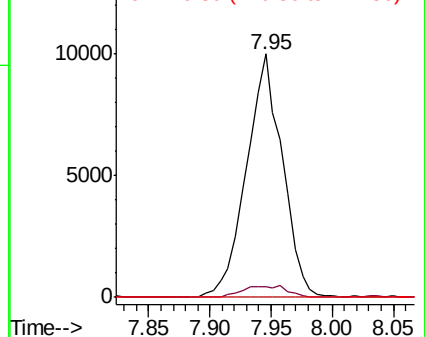
121 0.0 25.4 38.2#



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: 5.450 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012867.D

Acq: 10 Sep 2019 13:50

Tgt Ion: 41 Resp: 2202

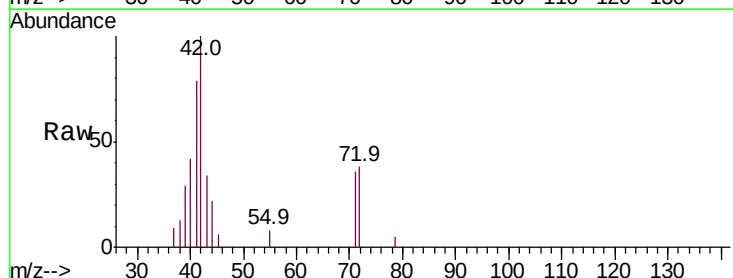
Ion Ratio Lower Upper

41 100

39 57.8 47.5 71.3

67 0.0 45.1 67.7#

52 1.0 20.2 30.2#

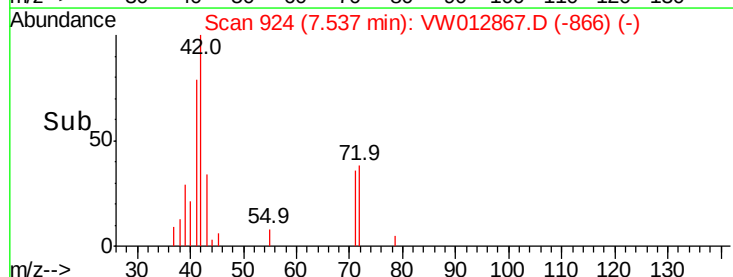
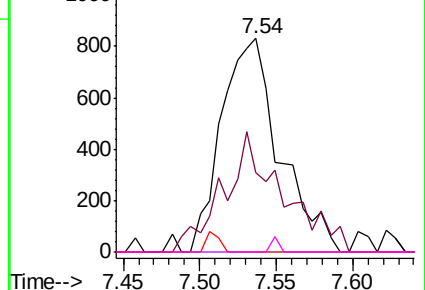


Abundance Ion 41.00 (40.70 to 41.70): VW

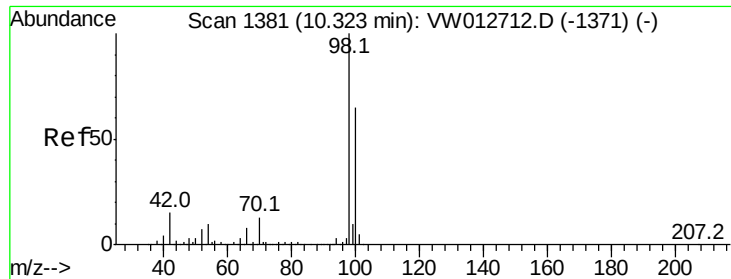
Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



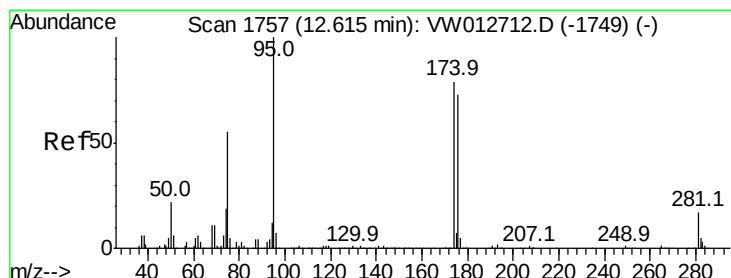
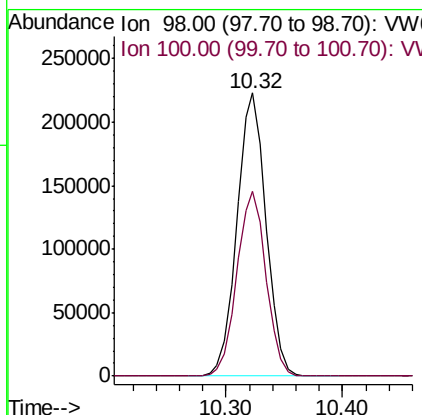
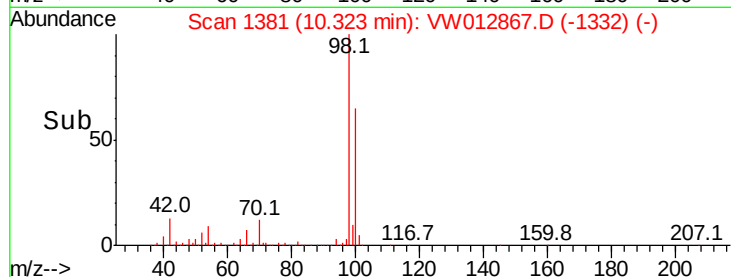
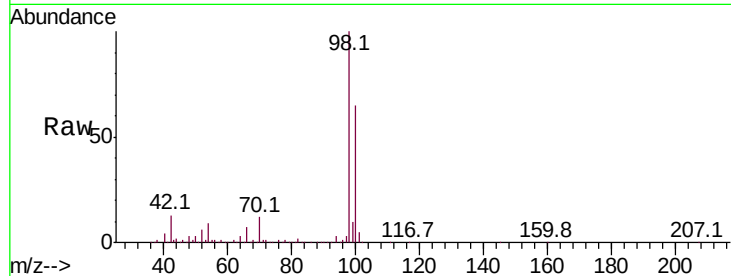




#50  
Toluene-d8  
Concen: 50.744 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

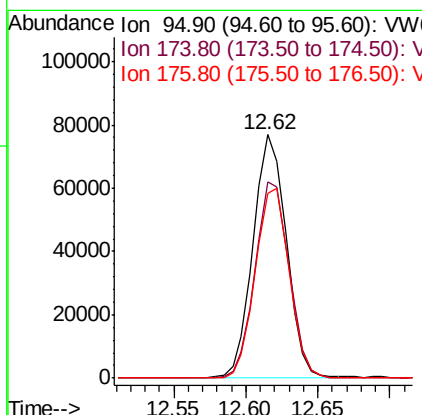
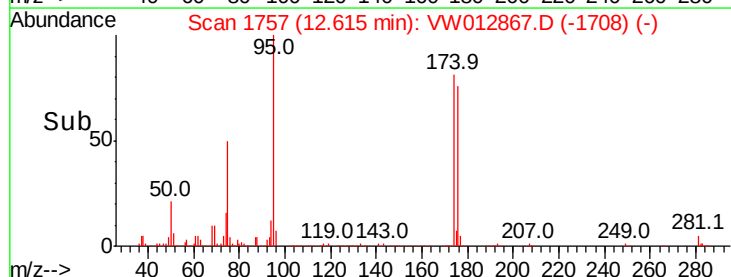
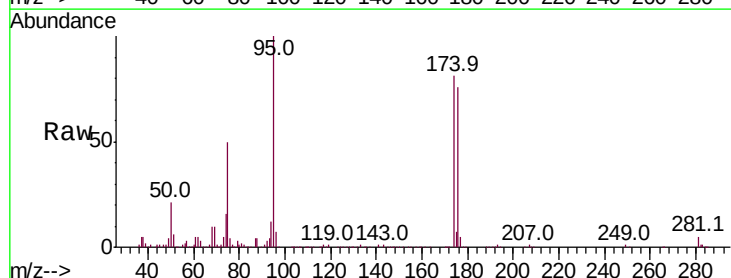
Instrument :  
MSVOA\_W  
ClientSampleId :  
PAR-11-E2-(0)

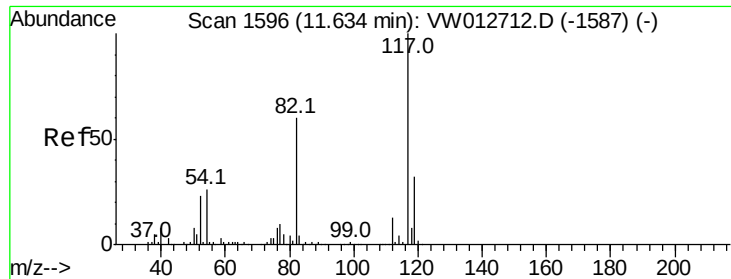
Tot Ion: 98 Resp: 387380  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.2 78.4



#62  
4-Bromofluorobenzene  
Concen: 44.199 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

Tgt Ion: 95 Resp: 122492  
Ion Ratio Lower Upper  
95 100  
174 82.9 0.0 161.0  
176 79.8 0.0 156.4

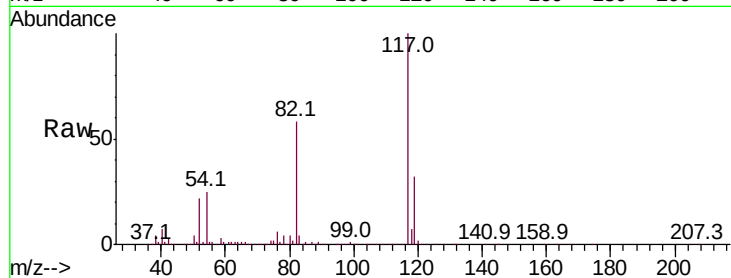




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

Instrument :  
MSVOA\_W  
ClientSampleId :  
PAR-11-E2-(0)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.8  | 48.2  | 72.4  |
| 119     | 31.9  | 25.8  | 38.6  |

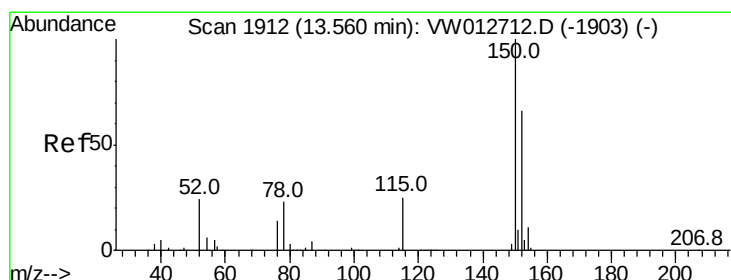
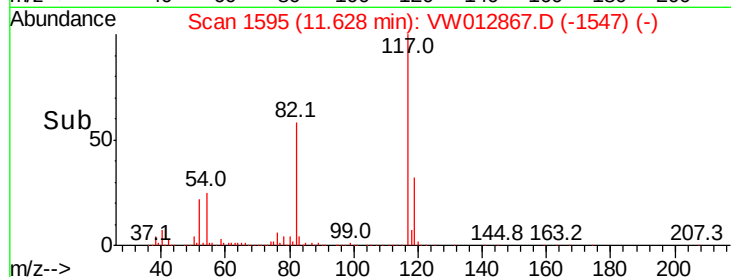
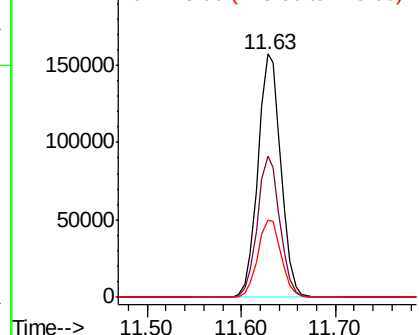


Abundance

Ion 116.90 (116.60 to 117.60): V

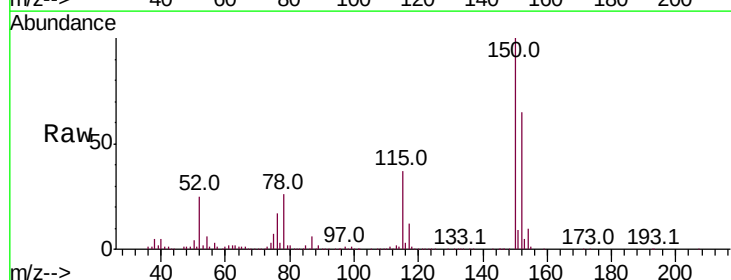
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.01 min  
Lab File: VW012867.D  
Acq: 10 Sep 2019 13:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.5  | 30.0  | 90.1  |
| 150     | 156.0 | 0.0   | 349.0 |

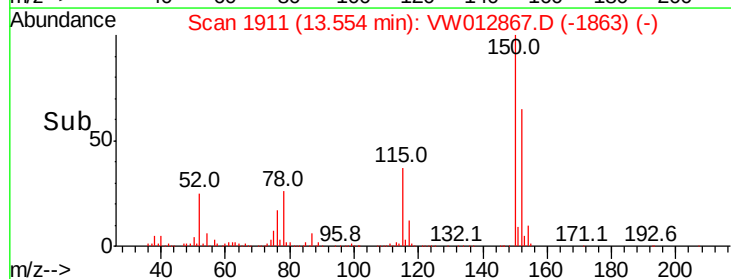
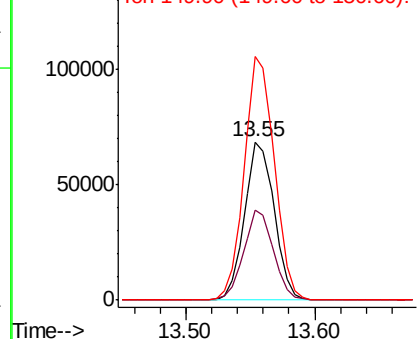


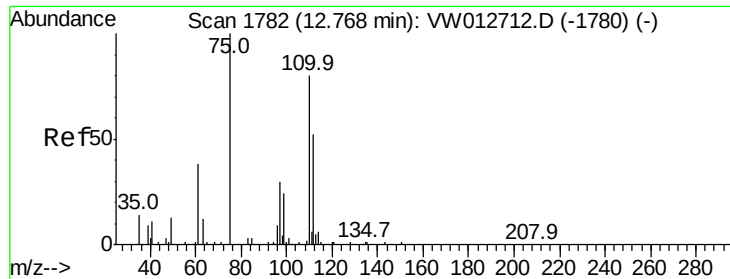
Abundance

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

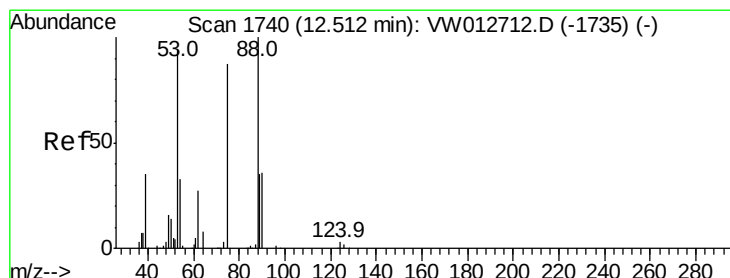
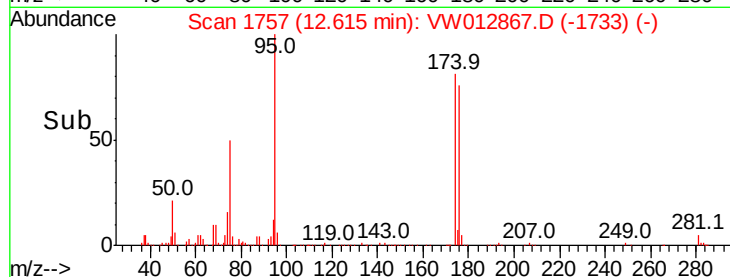
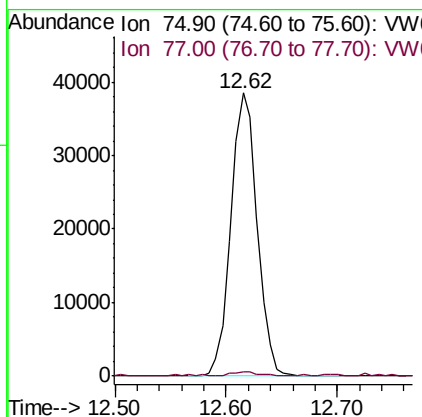
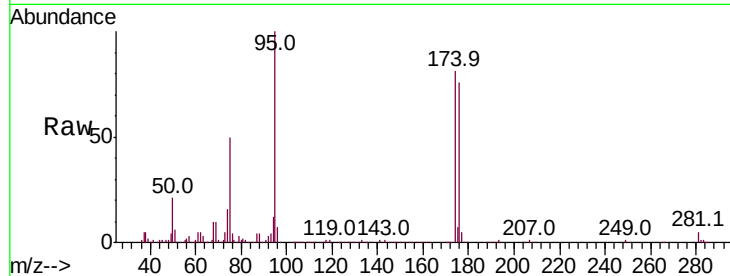




#76  
 1,2,3-Trichloropropane  
 Concen: 56.373 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW012867.D  
 Acq: 10 Sep 2019 13:50

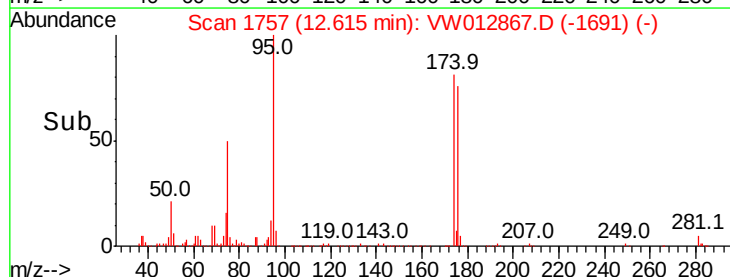
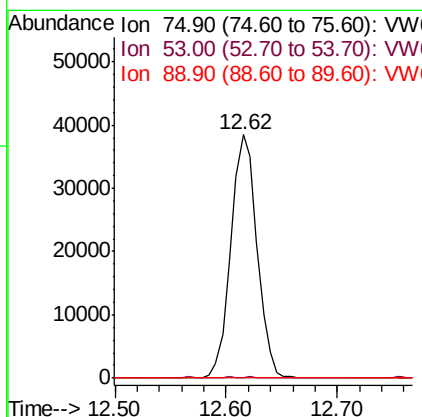
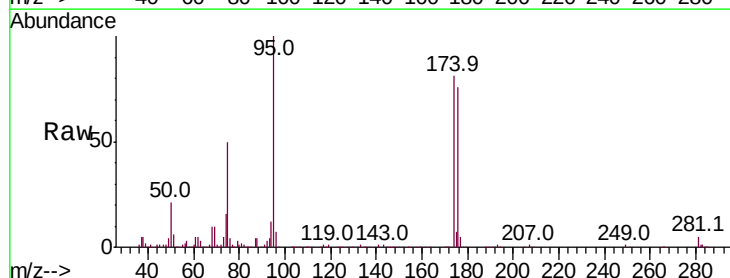
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PAR-11-E2-(0)

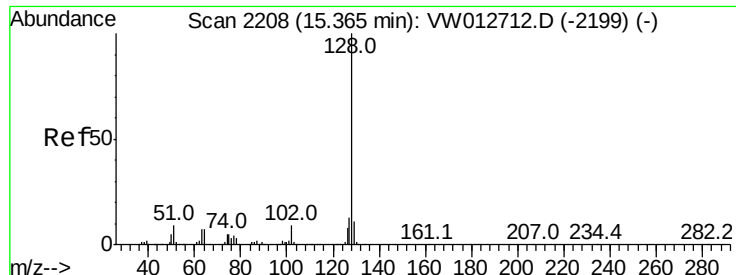
Tot Ion: 75 Resp: 62736  
 Ion Ratio Lower Upper  
 75 100  
 77 1.7 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 119.232 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW012867.D  
 Acq: 10 Sep 2019 13:50

Tgt Ion: 75 Resp: 62736  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 87.6 131.4#  
 89 0.1 35.5 53.3#





#95

Naphthalene

Concen: 4.564 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012867.D

Acq: 10 Sep 2019 13:50

Instrument :

MSVOA\_W

ClientSampleId :

PAR-11-E2-(0)

Tot Ion:128 Resp: 626

Ion Ratio Lower Upper

128 100

127 17.9 10.7 16.1#

129 26.2 8.7 13.1#

