

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR071618\  
 Data File : VR025482.D  
 Acq On : 16 Jul 2018 18:28  
 Operator : SY/MD  
 Sample : J4002-08MSD  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 C0AG4MSD

Quant Time: Jul 17 01:12:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR070518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 17 01:11:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.45  | 114  | 703913   | 5.00 | ug/L  | -0.01    |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 572114   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 201723   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.14   | 65    | 87496    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.20%  |
| 7) Chloroethane-d5             | 2.61   | 69    | 67365    | 4.07     | ug/L | -0.02   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.40%  |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 262782   | 4.47     | ug/L | -0.03   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.40%  |
| 20) 2-Butanone-d5              | 6.57   | 46    | 262782   | 43.60    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 87.20%  |
| 24) Chloroform-d               | 7.19   | 84    | 396622   | 4.13     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 82.60%  |
| 26) 1,2-Dichloroethane-d4      | 7.88   | 65    | 154588   | 4.20     | ug/L | -0.02   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.00%  |
| 32) Benzene-d6                 | 7.84   | 84    | 844376   | 4.41     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 252629   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.00%  |
| 41) Toluene-d8                 | 9.97   | 98    | 764680   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 59874    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.40%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 227659   | 47.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 107265   | 4.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 86.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 175312   | 5.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.20% |

## Target Compounds

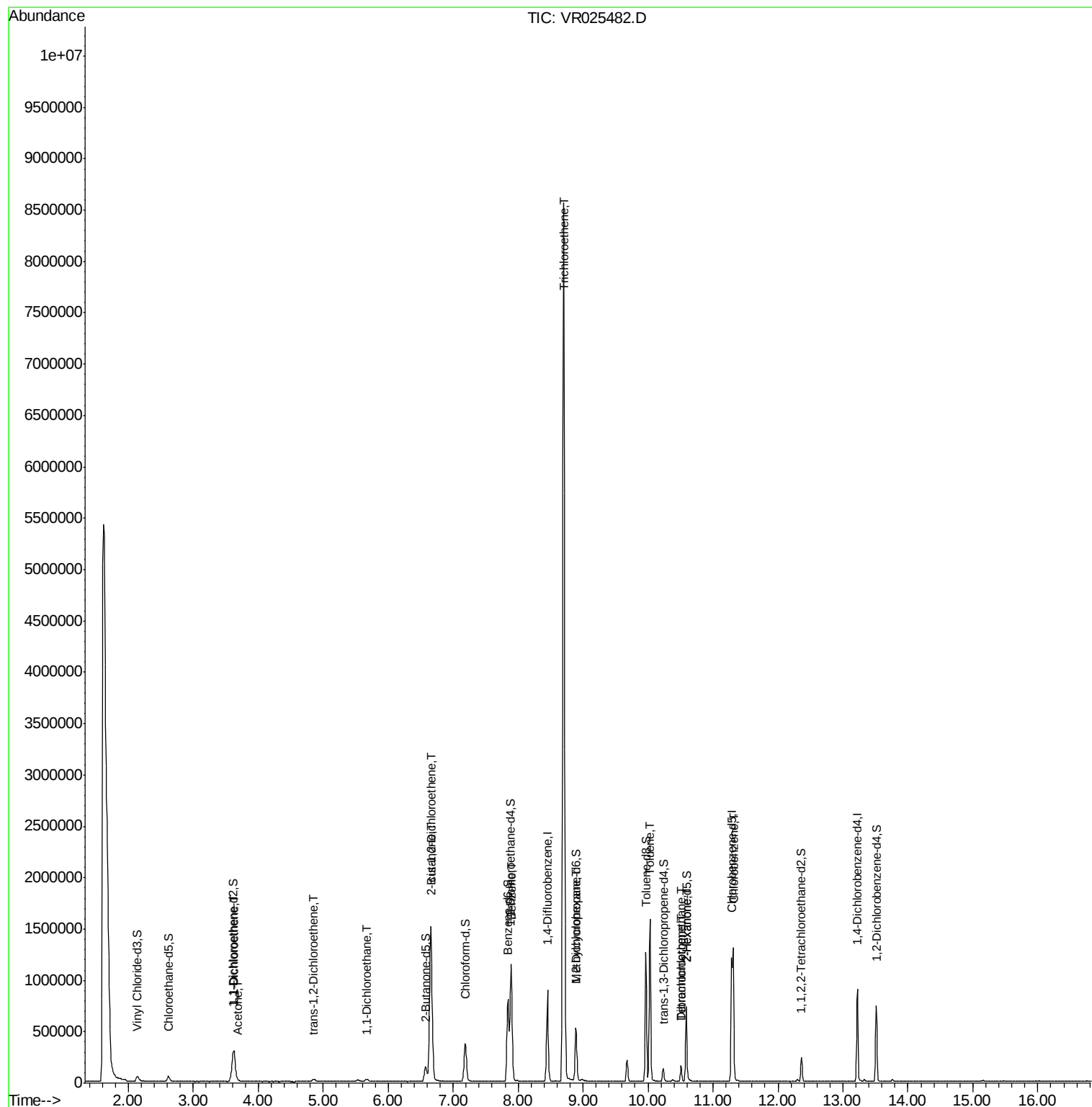
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 12) 1,1-Dichloroethene       | 3.63  | 96   | 105445   | 5.011  | ug/L   | 97     |
| 13) Acetone                  | 3.69  | 43   | 6947     | 2.558  | ug/L   | 93     |
| 18) trans-1,2-Dichloroethene | 4.85  | 96   | 11946    | 0.228  | ug/L   | 82     |
| 19) 1,1-Dichloroethane       | 5.67  | 63   | 34717    | 0.387  | ug/L   | 96     |
| 21) 2-Butanone               | 6.67  | 43   | 1978     | 0.313  | ug/L # | 1      |
| 22) cis-1,2-Dichloroethene   | 6.66  | 96   | 955818   | 19.895 | ug/L # | 98     |
| 33) Benzene                  | 7.89  | 78   | 1041239  | 5.280  | ug/L   | 100    |
| 34) Trichloroethene          | 8.70  | 95   | 3138123  | 62.509 | ug/L   | 99     |
| 35) Methylcyclohexane        | 8.89  | 83   | 56812    | 0.846  | ug/L # | 17     |
| 42) Toluene                  | 10.03 | 91   | 1075374  | 5.608  | ug/L   | 97     |
| 47) Tetrachloroethene        | 10.51 | 164  | 30120    | 0.919  | ug/L   | 96     |
| 48) 2-Hexanone               | 10.59 | 43   | 28011    | 3.065  | ug/L # | 65     |
| 49) Dibromochloromethane     | 10.51 | 129  | 24527    | 1.047  | ug/L # | 10     |
| 51) Chlorobenzene            | 11.31 | 112  | 616531   | 5.280  | ug/L   | 96     |

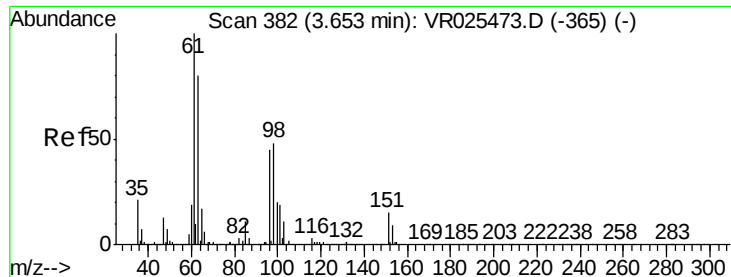
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_R\DATA\VR071618\  
Data File : VR025482.D  
Acq On : 16 Jul 2018 18:28  
Operator : SY/MD  
Sample : J4002-08MSD  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
C0AG4MSD

Quant Time: Jul 17 01:12:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR070518WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 17 01:11:10 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 5.011 ug/L

RT: 3.63 min Scan# 378

Delta R.T. -0.02 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Instrument :

MSVOA\_R

ClientSampleId :

C0AG4MSD

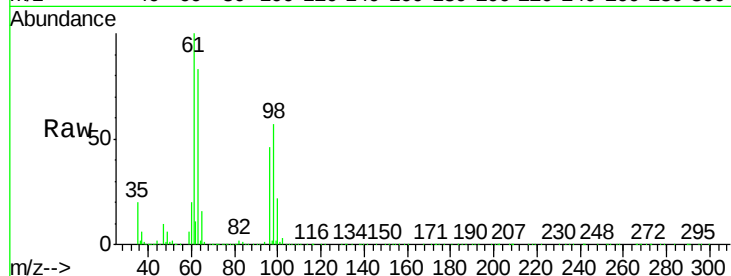
Tgt Ion: 96 Resp: 105445

Ion Ratio Lower Upper

96 100

61 218.4 155.0 287.9

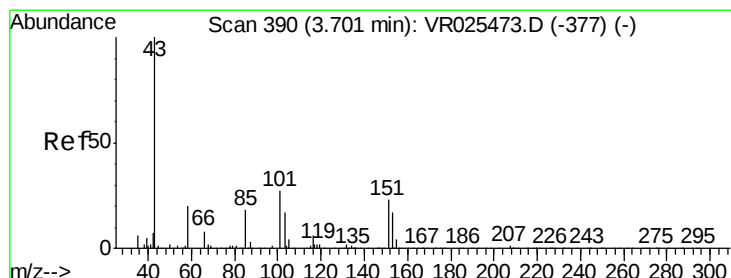
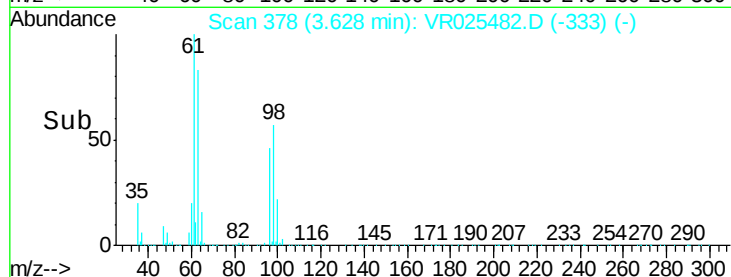
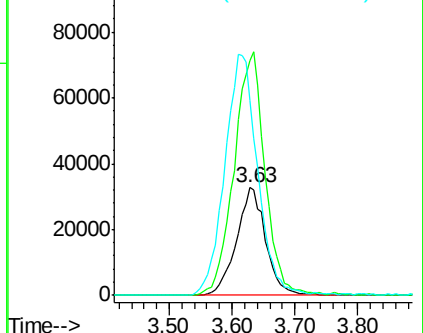
63 181.8 122.3 227.1



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0



#13

Acetone

Concen: 2.558 ug/L

RT: 3.69 min Scan# 388

Delta R.T. -0.01 min

Lab File: VR025482.D

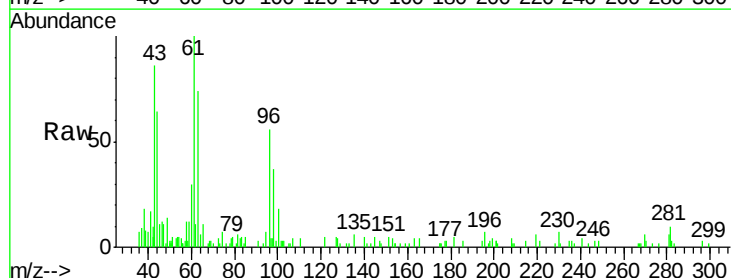
Acq: 16 Jul 2018 18:28

Tgt Ion: 43 Resp: 6947

Ion Ratio Lower Upper

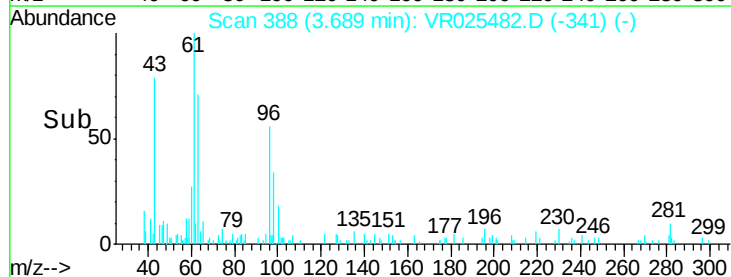
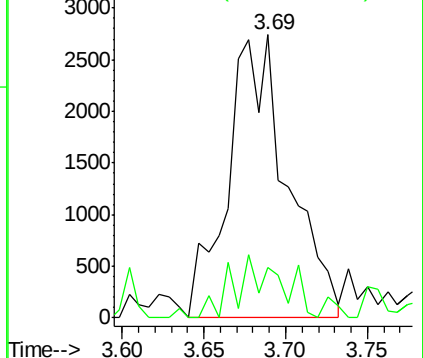
43 100

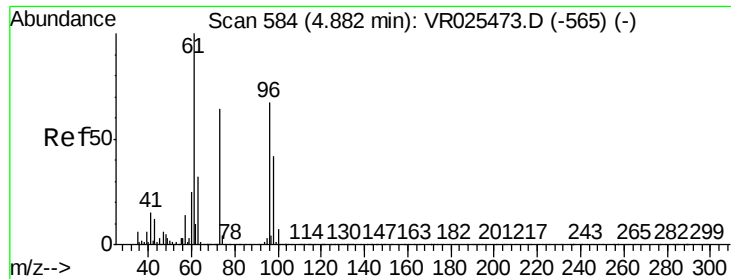
58 17.4 0.0 41.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

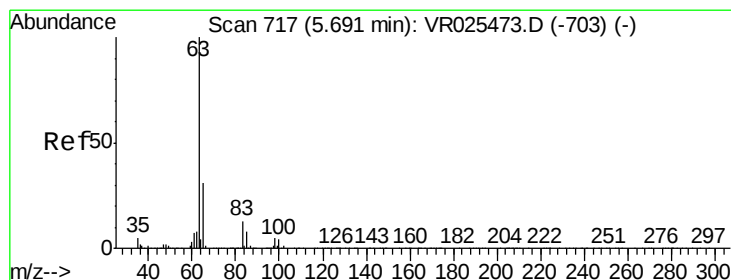
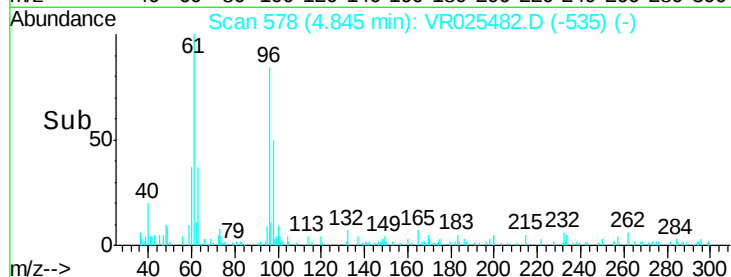
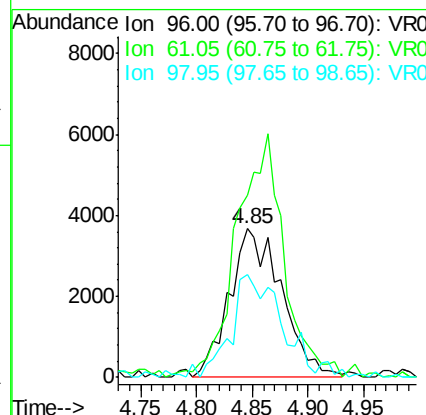
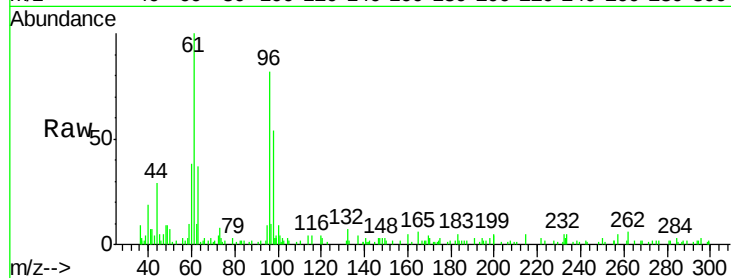




#18  
trans-1,2-Dichloroethene  
Concen: 0.228 ug/L  
RT: 4.85 min Scan# 578  
Delta R.T. -0.04 min  
Lab File: VR025482.D  
Acq: 16 Jul 2018 18:28

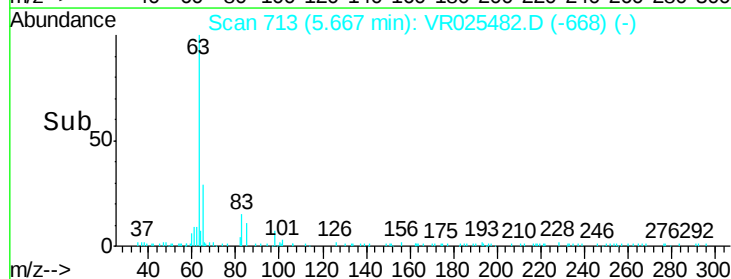
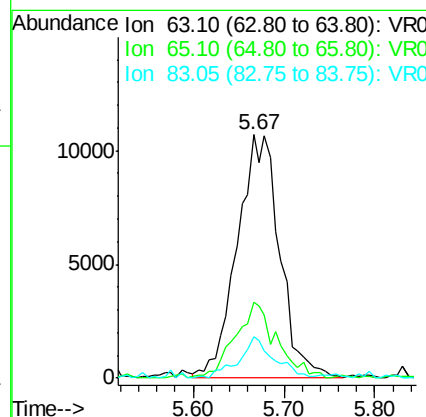
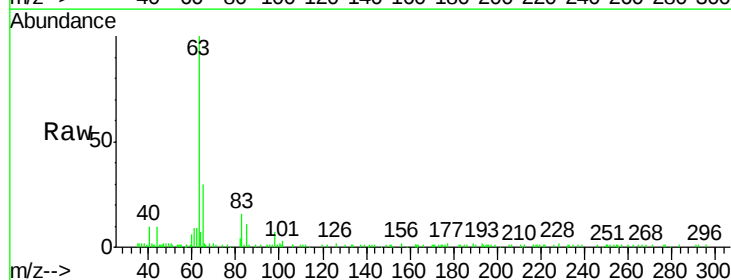
Instrument :  
MSVOA\_R  
ClientSampleId :  
C0AG4MSD

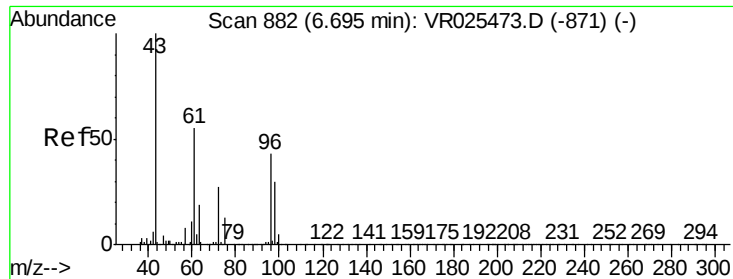
Tgt Ion: 96 Resp: 11946  
Ion Ratio Lower Upper  
96 100  
61 122.2 104.4 193.8  
98 69.5 43.1 80.1



#19  
1,1-Dichloroethane  
Concen: 0.387 ug/L  
RT: 5.67 min Scan# 713  
Delta R.T. -0.02 min  
Lab File: VR025482.D  
Acq: 16 Jul 2018 18:28

Tgt Ion: 63 Resp: 34717  
Ion Ratio Lower Upper  
63 100  
65 31.4 22.5 41.7  
83 17.2 9.5 17.7





#21

2-Butanone

Concen: 0.313 ug/L

RT: 6.67 min Scan# 878

Delta R.T. -0.02 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Instrument :

MSVOA\_R

ClientSampleId :

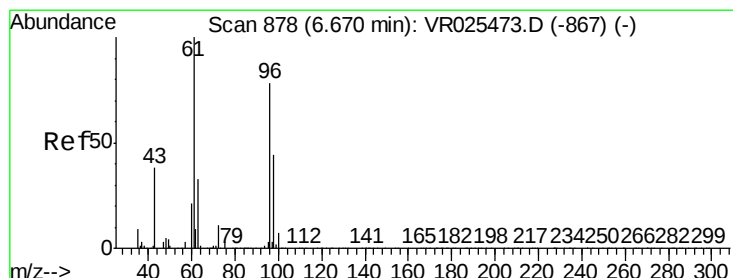
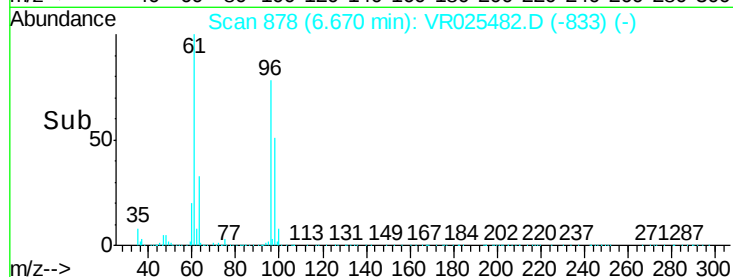
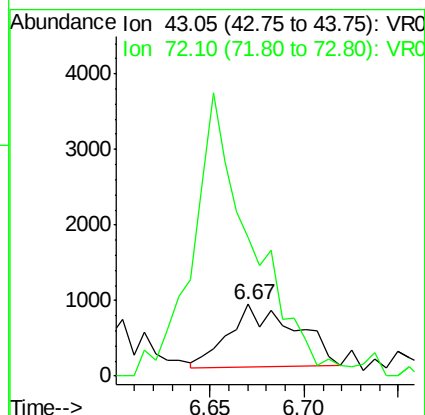
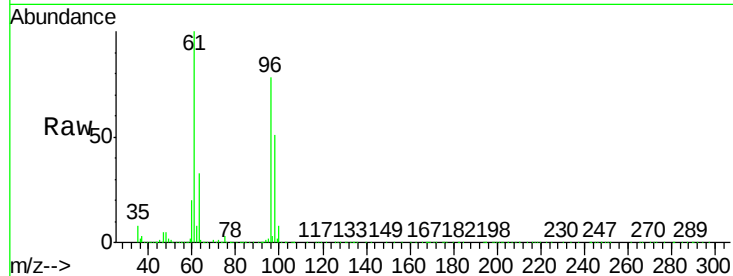
C0AG4MSD

Tgt Ion: 43 Resp: 1978

Ion Ratio Lower Upper

43 100

72 414.0 13.0 38.9#



#22

cis-1,2-Dichloroethene

Concen: 19.895 ug/L

RT: 6.66 min Scan# 876

Delta R.T. -0.01 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

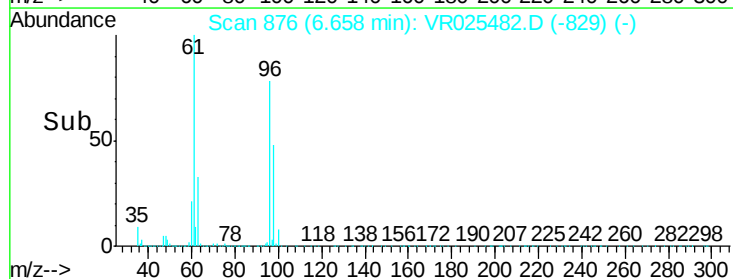
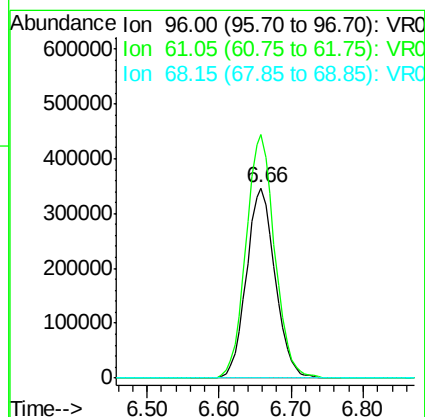
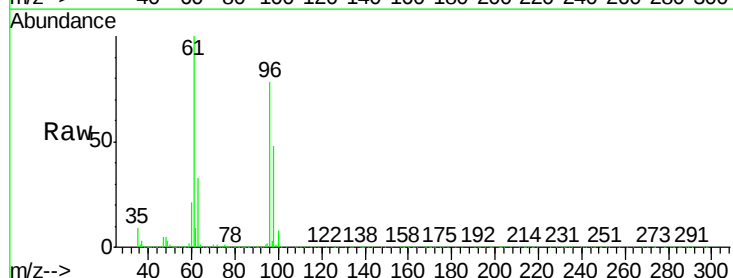
Tgt Ion: 96 Resp: 955818

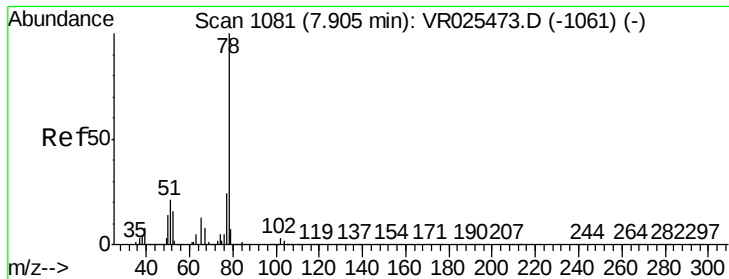
Ion Ratio Lower Upper

96 100

61 127.9 91.0 169.0

68 0.0 0.0 0.0#





#33

Benzene

Concen: 5.280 ug/L

RT: 7.89 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

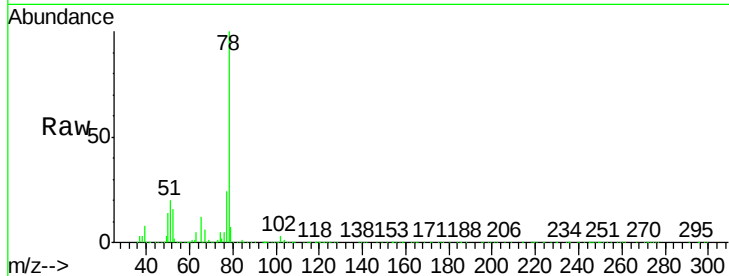
Instrument :

MSVOA\_R

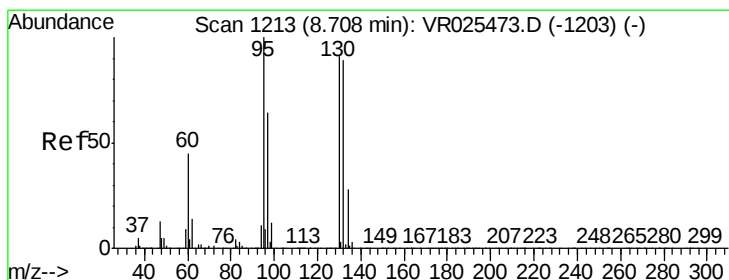
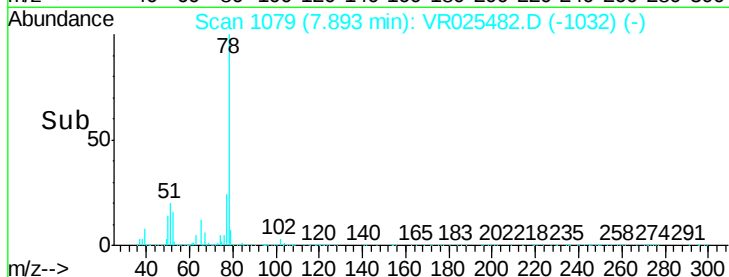
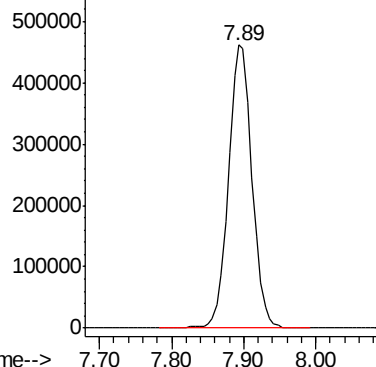
ClientSampleId :

C0AG4MSD

Tgt Ion: 78 Resp: 1041239



Abundance Ion 78.10 (77.80 to 78.80): VR0



#34

Trichloroethene

Concen: 62.509 ug/L

RT: 8.70 min Scan# 1212

Delta R.T. -0.01 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Tgt Ion: 95 Resp: 3138123

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.1  | 45.6  | 84.6  |
| 132 | 85.5  | 60.9  | 113.1 |
| 130 | 89.1  | 62.0  | 115.2 |

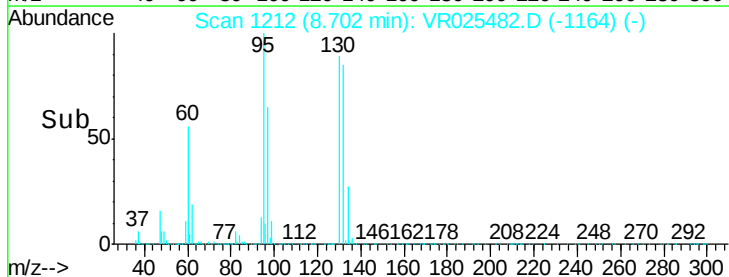
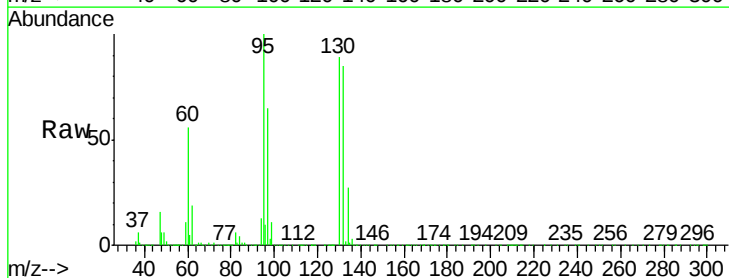
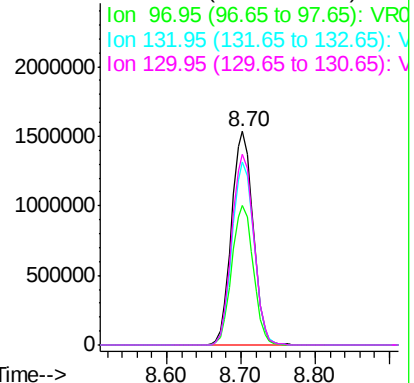
Ion 95.00 (94.70 to 95.70): VR0

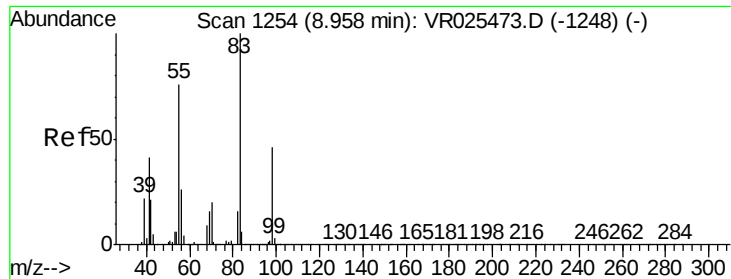
Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): VR0

Ion 129.95 (129.65 to 130.65): VR0

Abundance Ion 95.00 (94.70 to 95.70): VR0

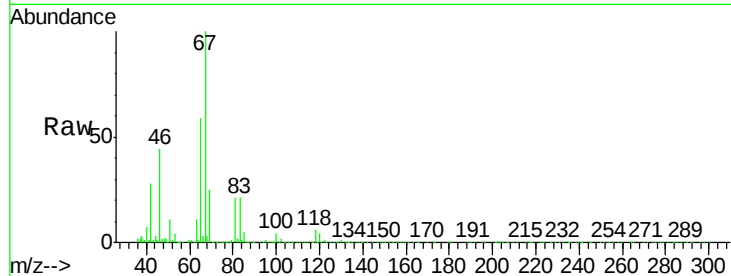




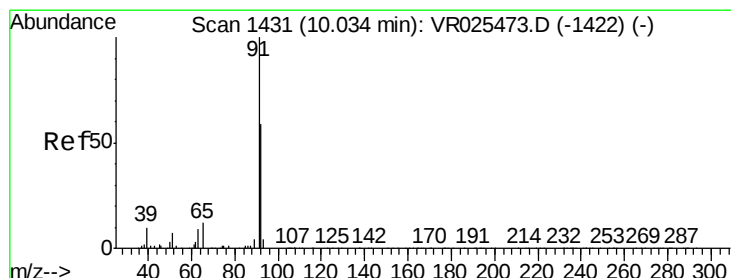
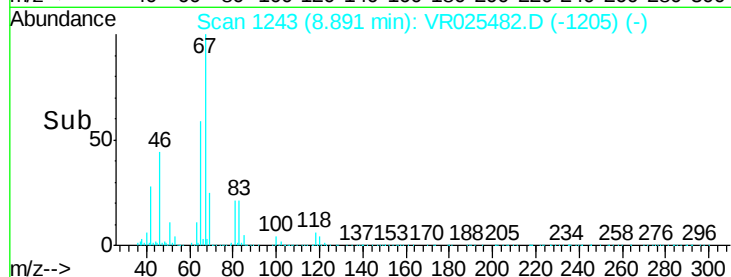
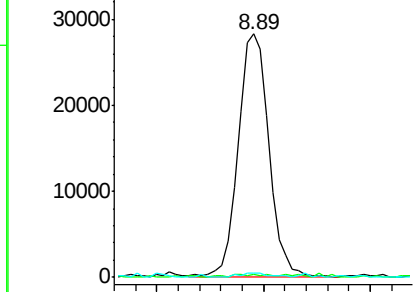
#35  
Methylcyclohexane  
Concen: 0.846 ug/L  
RT: 8.89 min Scan# 1243  
Delta R.T. -0.07 min  
Lab File: VR025482.D  
Acq: 16 Jul 2018 18:28

Instrument :  
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ClientSampleId :  
C0AG4MSD

Tgt Ion: 83 Resp: 56812  
Ion Ratio Lower Upper  
83 100  
55 1.2 66.1 99.1#  
98 0.0 36.2 54.4#

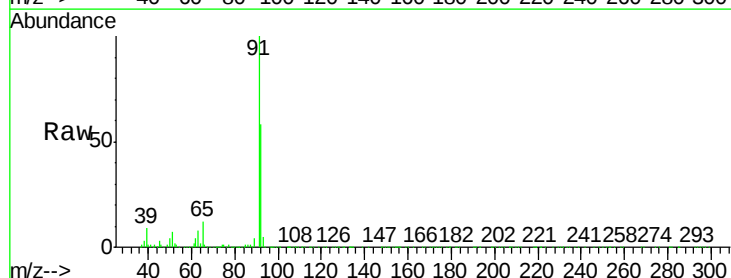


Abundance Ion 83.15 (82.85 to 83.85): VR0  
Ion 55.10 (54.80 to 55.80): VR0  
Ion 98.15 (97.85 to 98.85): VR0

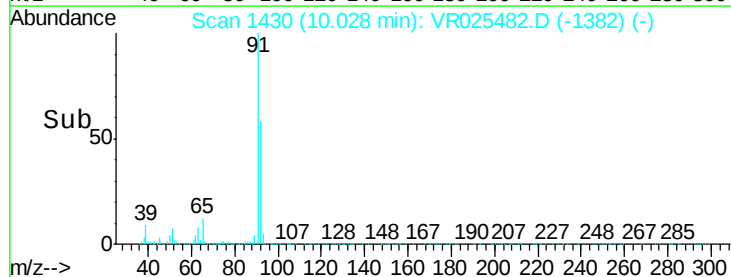
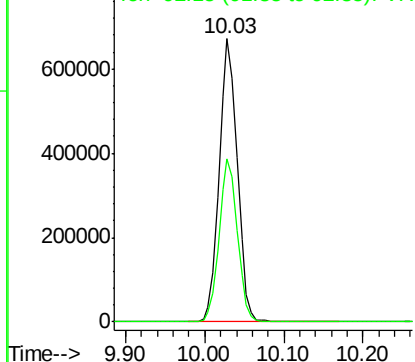


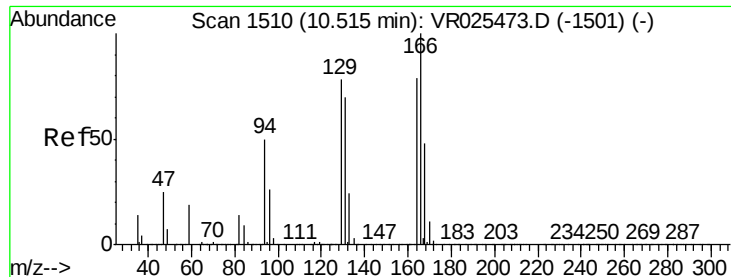
#42  
Toluene  
Concen: 5.608 ug/L  
RT: 10.03 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: VR025482.D  
Acq: 16 Jul 2018 18:28

Tgt Ion: 91 Resp: 1075374  
Ion Ratio Lower Upper  
91 100  
92 57.5 41.9 77.7



Abundance Ion 91.15 (90.85 to 91.85): VR0  
Ion 92.15 (91.85 to 92.85): VR0





#47

Tetrachloroethene

Concen: 0.919 ug/L

RT: 10.51 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Instrument :

MSVOA\_R

ClientSampleId :

C0AG4MSD

Tgt Ion:164 Resp: 30120

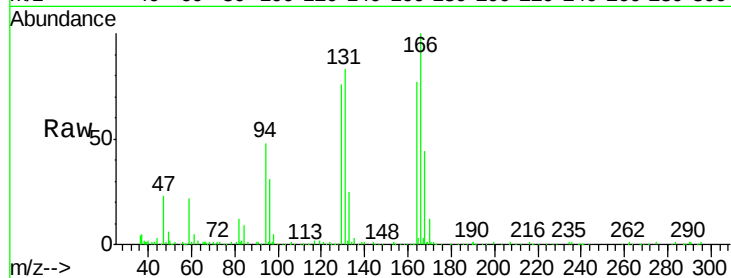
Ion Ratio Lower Upper

164 100

129 99.4 68.1 126.5

131 108.2 68.5 127.1

166 130.0 89.9 166.9

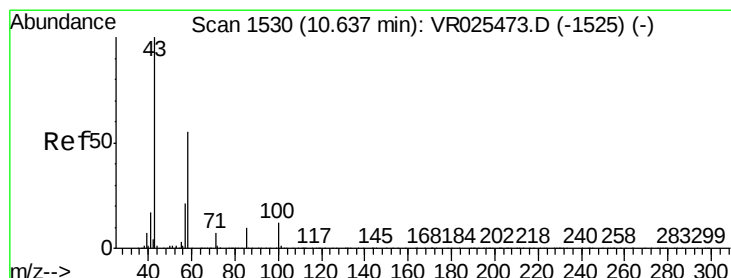
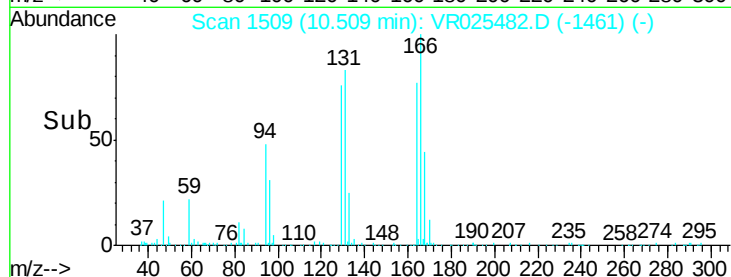
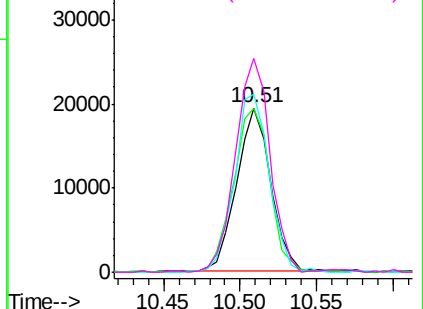


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 3.065 ug/L

RT: 10.59 min Scan# 1522

Delta R.T. -0.05 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Tgt Ion: 43 Resp: 28011

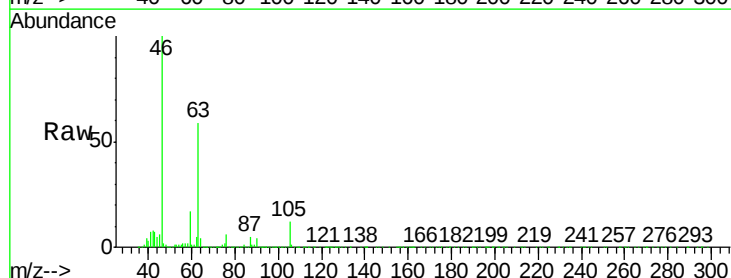
Ion Ratio Lower Upper

43 100

58 26.9 43.1 64.7#

57 33.9 15.3 22.9#

100 2.4 7.9 11.9#

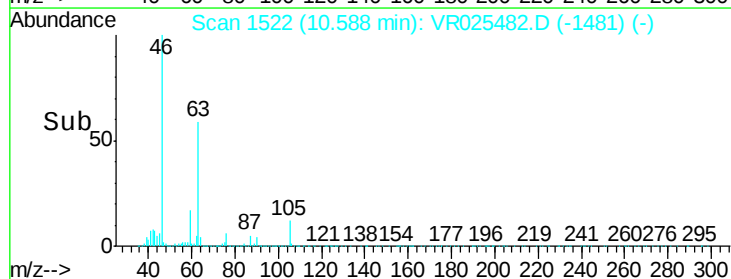
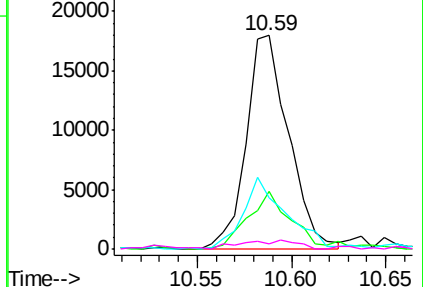


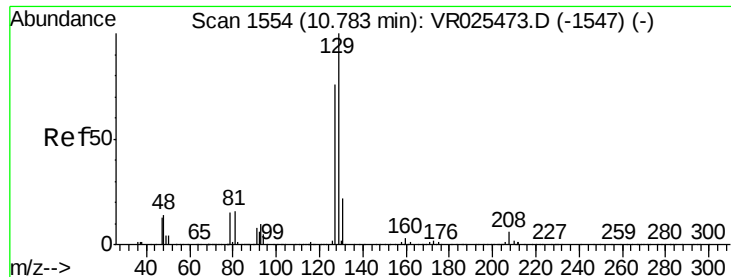
Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

Ion 57.20 (56.90 to 57.90): VR0

Ion 100.15 (99.85 to 100.85): VR0





#49

Dibromochloromethane

Concen: 1.047 ug/L

RT: 10.51 min Scan# 1509

Delta R.T. -0.27 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Instrument :

MSVOA\_R

ClientSampleId :

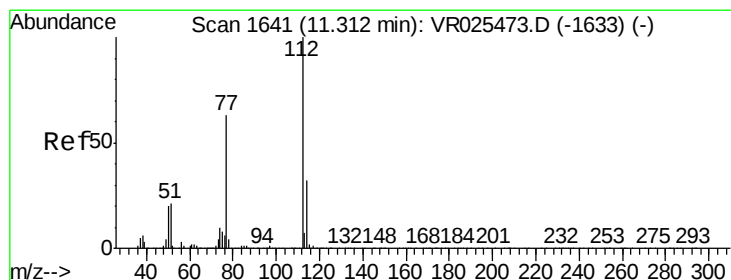
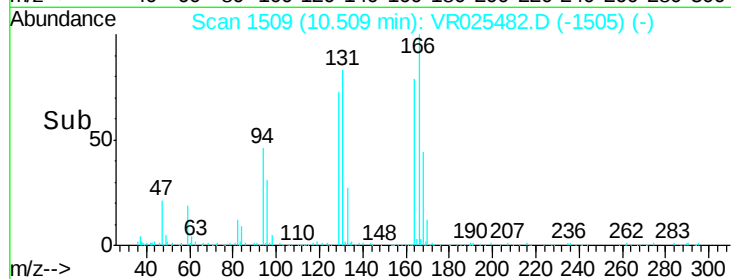
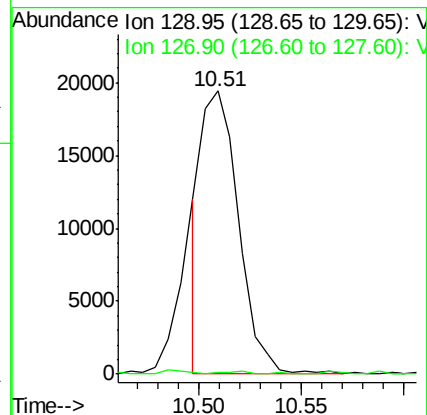
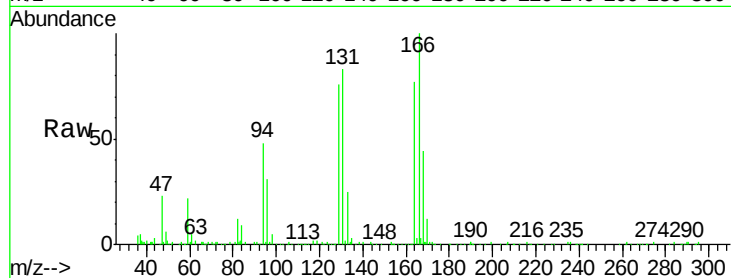
C0AG4MSD

Tgt Ion:129 Resp: 24527

Ion Ratio Lower Upper

129 100

127 0.4 55.9 103.7#



#51

Chlorobenzene

Concen: 5.280 ug/L

RT: 11.31 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VR025482.D

Acq: 16 Jul 2018 18:28

Tgt Ion:112 Resp: 616531

Ion Ratio Lower Upper

112 100

114 31.3 21.6 40.0

77 60.0 51.9 77.9

