

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101118\  
 Data File : VR026048.D  
 Acq On : 11 Oct 2018 16:55  
 Operator : SY/MD  
 Sample : J5315-14  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :

Quant Time: Oct 12 08:10:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 12 08:06:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 423611   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 371713   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 124596   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 182039   | 5.45     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 109.00% |
| 7) Chloroethane-d5             | 2.63   | 69    | 164257   | 6.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 120.40% |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 355319   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.60%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 215761   | 57.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.88% |
| 24) Chloroform-d               | 7.20   | 84    | 296411   | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.00% |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 138488   | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.80% |
| 32) Benzene-d6                 | 7.85   | 84    | 601406   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 172855   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.60% |
| 41) Toluene-d8                 | 9.97   | 98    | 550576   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 37109    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.20%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 177677   | 61.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 123.14% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 68433    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.20% |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 106120   | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.40% |

## Target Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane            | 2.01  | 50   | 3440     | 0.094  | ug/L # | 73     |
| 12) 1,1-Dichloroethene      | 3.64  | 96   | 26812    | 0.838  | ug/L # | 1      |
| 13) Acetone                 | 3.70  | 43   | 9909     | 3.671  | ug/L   | 89     |
| 15) Methyl Acetate          | 4.03  | 43   | 1075     | 0.144  | ug/L # | 69     |
| 19) 1,1-Dichloroethane      | 5.70  | 63   | 9973     | 0.190  | ug/L # | 94     |
| 21) 2-Butanone              | 6.70  | 43   | 5296     | 1.426  | ug/L # | 52     |
| 22) cis-1,2-Dichloroethene  | 6.67  | 96   | 219064   | 8.232  | ug/L   | 96     |
| 25) Chloroform              | 7.23  | 83   | 13904    | 0.273  | ug/L   | 88     |
| 29) 1,1,1-Trichloroethane   | 7.43  | 97   | 15873    | 0.380  | ug/L   | 92     |
| 34) Trichloroethene         | 8.71  | 95   | 364031   | 11.081 | ug/L   | 93     |
| 35) Methylcyclohexane       | 8.90  | 83   | 40252    | 0.815  | ug/L # | 16     |
| 37) 1,2-Dichloropropane     | 8.90  | 63   | 22012    | 0.823  | ug/L # | 93     |
| 39) cis-1,3-Dichloropropene | 9.69  | 75   | 4568     | 0.152  | ug/L   | 91     |
| 47) Tetrachloroethene       | 10.51 | 164  | 1004496  | 49.623 | ug/L   | 91     |
| 48) 2-Hexanone              | 10.59 | 43   | 26198    | 4.255  | ug/L # | 74     |
| 49) Dibromochloromethane    | 10.51 | 129  | 887725   | 72.304 | ug/L # | 11     |

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Misc : 25mL/MSVOA R/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :

Quant Time: Oct 12 08:10:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 12 08:06:28 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

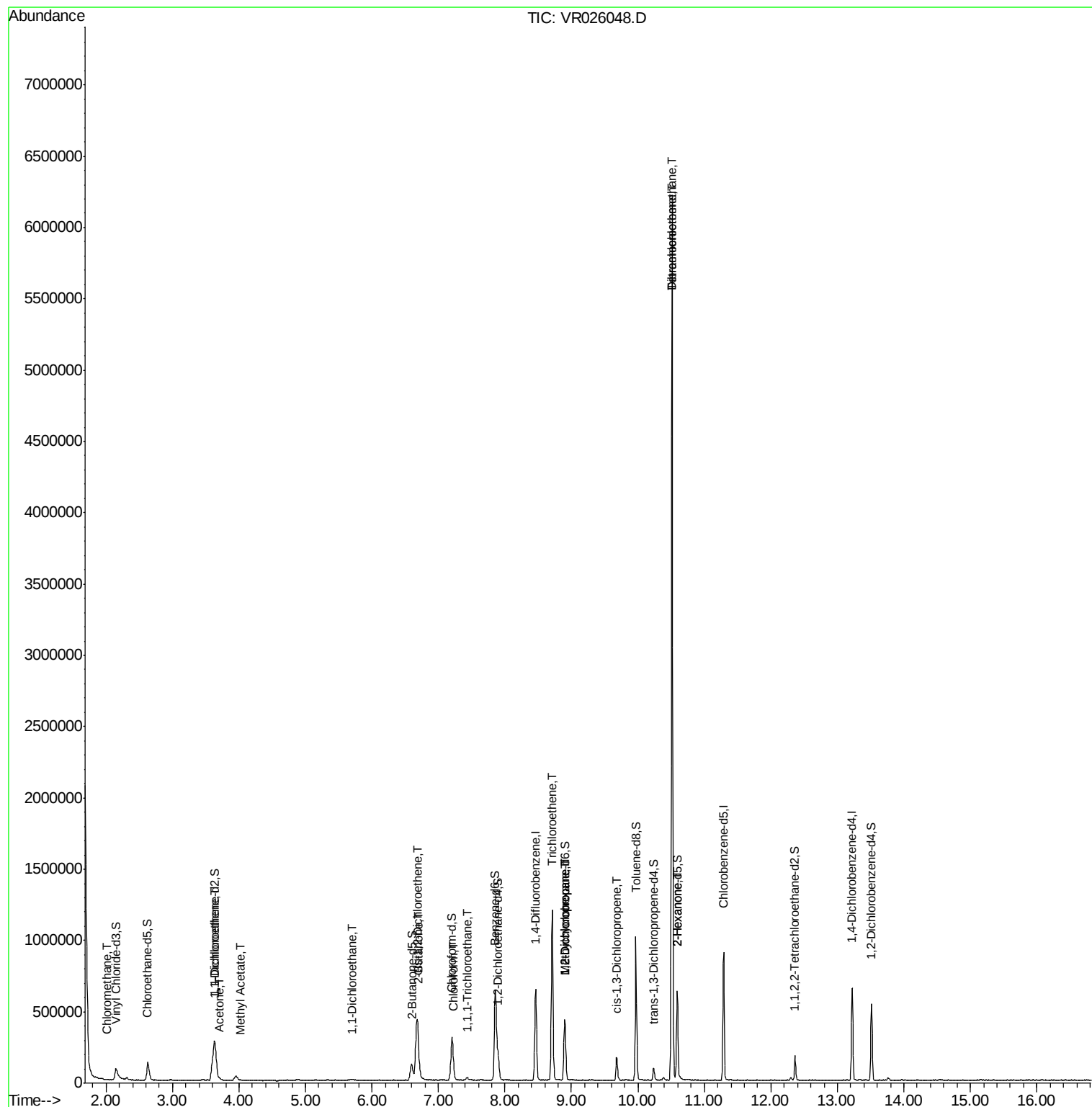
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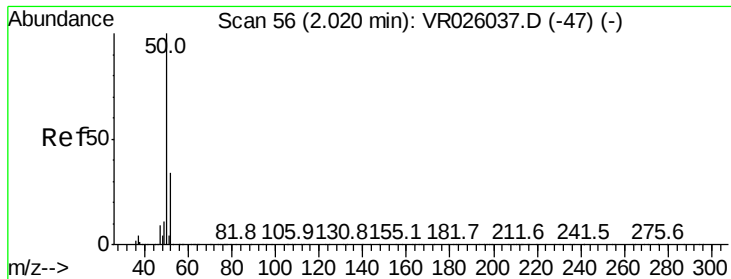
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_R  
ClientSampleId :

Quant Time: Oct 12 08:10:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 12 08:06:28 2018  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.094 ug/L

RT: 2.01 min Scan# 54

Delta R.T. -0.01 min

Lab File: VR026048.D

Acq: 11 Oct 2018 16:55

Instrument :

MSVOA\_R

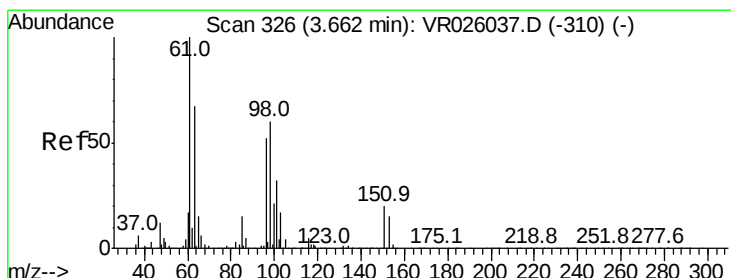
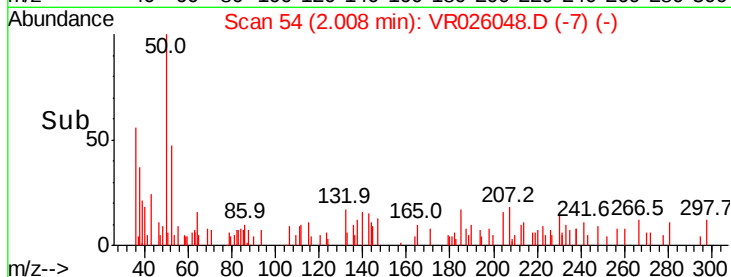
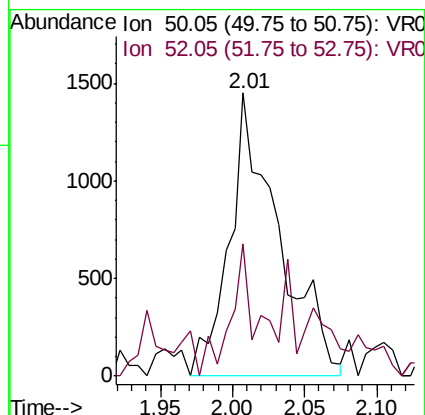
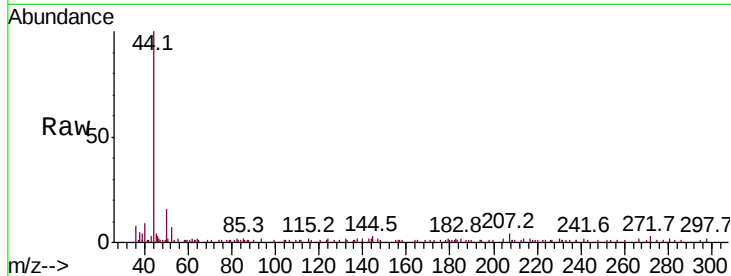
ClientSampled :

Tot Ion: 50 Resp: 3440

Ion Ratio Lower Upper

50 100

52 46.8 22.1 41.1#



#12

1,1-Dichloroethene

Concen: 0.838 ug/L

RT: 3.64 min Scan# 323

Delta R.T. -0.02 min

Lab File: VR026048.D

Acq: 11 Oct 2018 16:55

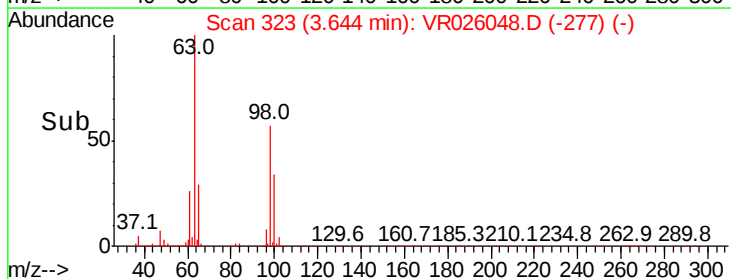
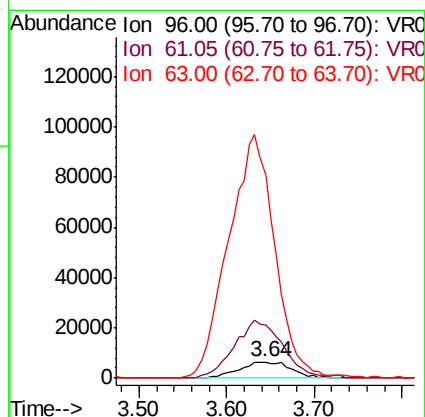
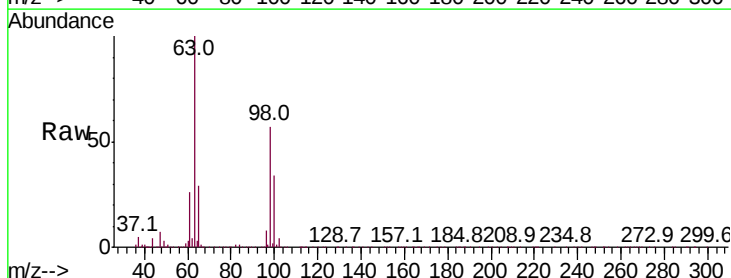
Tgt Ion: 96 Resp: 26812

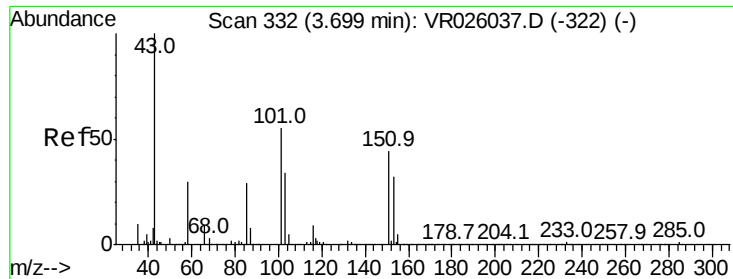
Ion Ratio Lower Upper

96 100

61 320.0 145.0 269.4#

63 1235.2 123.8 230.0#

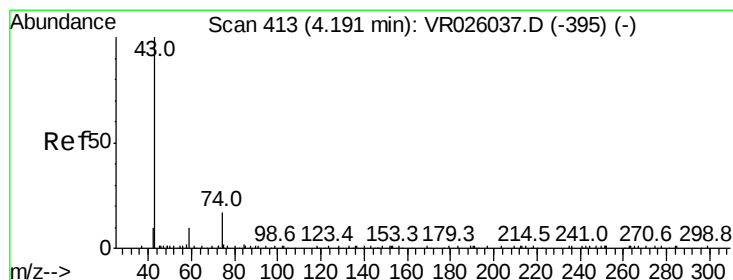
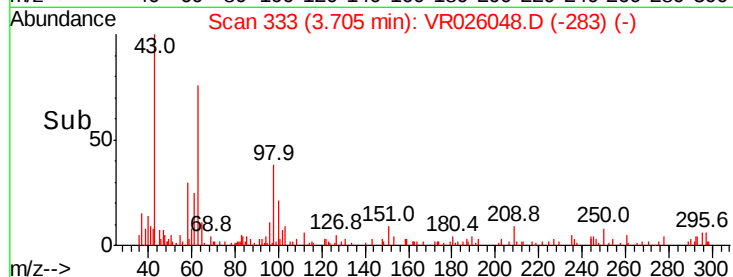
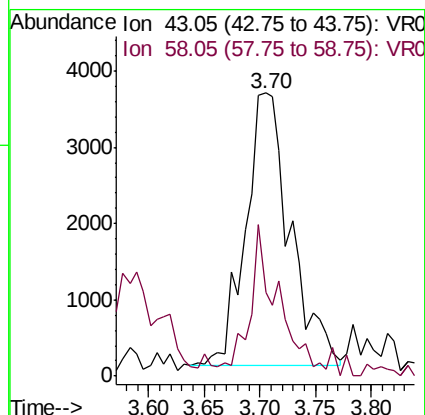
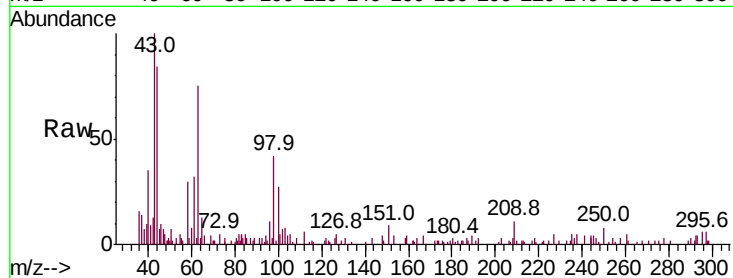




#13  
Acetone  
Concen: 3.671 ug/L  
RT: 3.70 min Scan# 333  
Delta R.T. 0.01 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

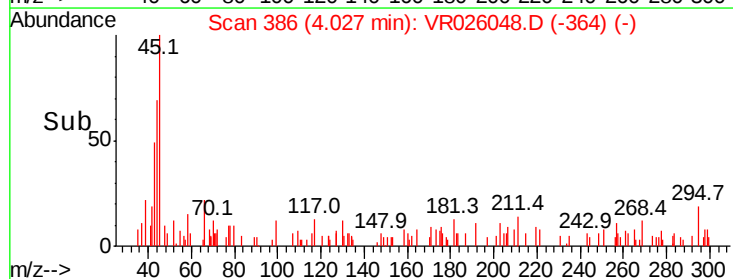
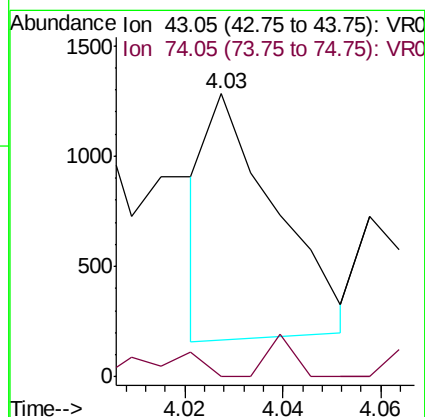
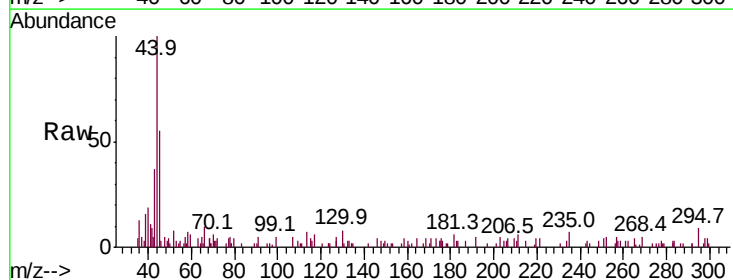
Instrument :  
MSVOA\_R  
ClientSampled :

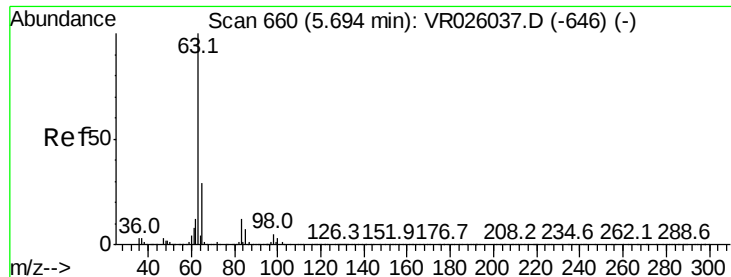
Tot Ion: 43 Resp: 9909  
Ion Ratio Lower Upper  
43 100  
58 31.1 0.0 51.4



#15  
Methyl Acetate  
Concen: 0.144 ug/L  
RT: 4.03 min Scan# 386  
Delta R.T. -0.16 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Tgt Ion: 43 Resp: 1075  
Ion Ratio Lower Upper  
43 100  
74 8.6 19.0 28.4#





#19

1,1-Dichloroethane

Concen: 0.190 ug/L

RT: 5.70 min Scan# 661

Delta R.T. 0.01 min

Lab File: VR026048.D

Acq: 11 Oct 2018 16:55

Instrument :

MSVOA\_R

ClientSampleId :

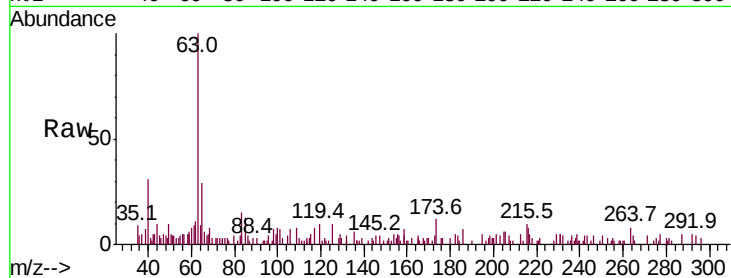
Tot Ion: 63 Resp: 9973

Ion Ratio Lower Upper

63 100

65 29.0 21.1 39.1

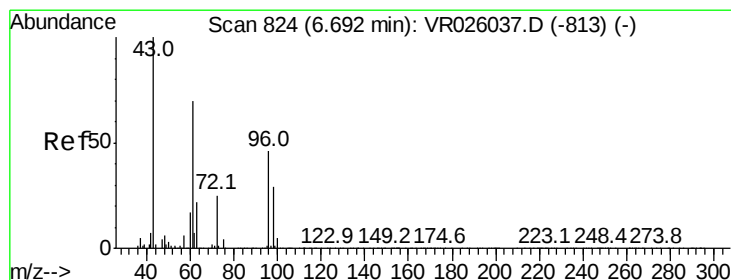
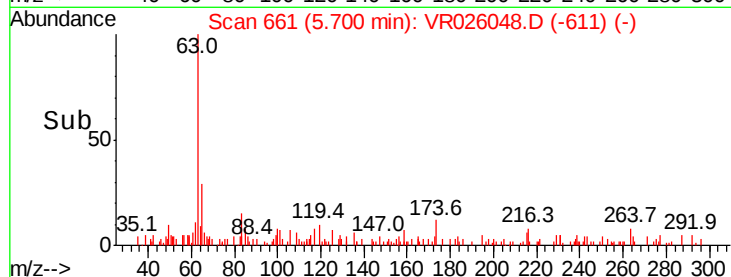
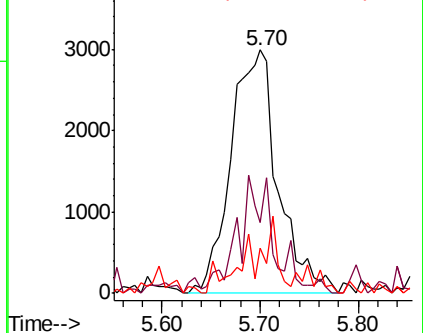
83 18.8 8.9 16.5#



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



#21

2-Butanone

Concen: 1.426 ug/L

RT: 6.70 min Scan# 825

Delta R.T. 0.01 min

Lab File: VR026048.D

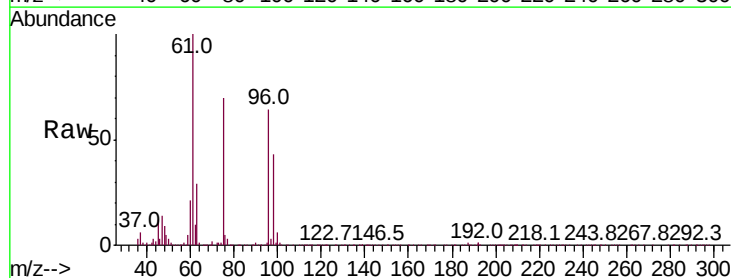
Acq: 11 Oct 2018 16:55

Tgt Ion: 43 Resp: 5296

Ion Ratio Lower Upper

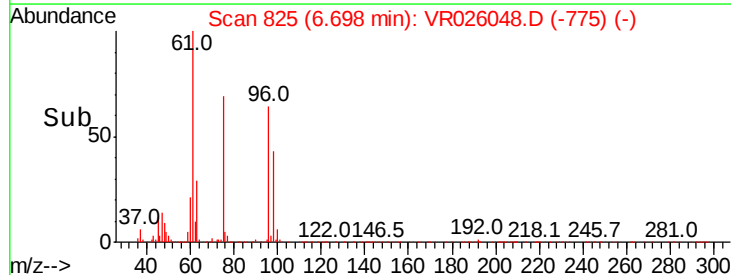
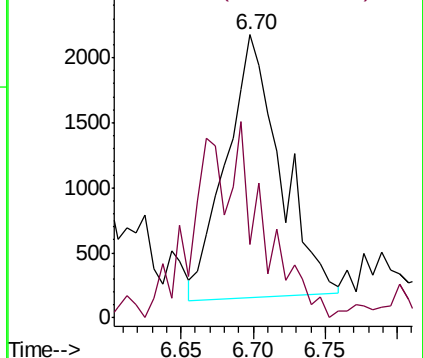
43 100

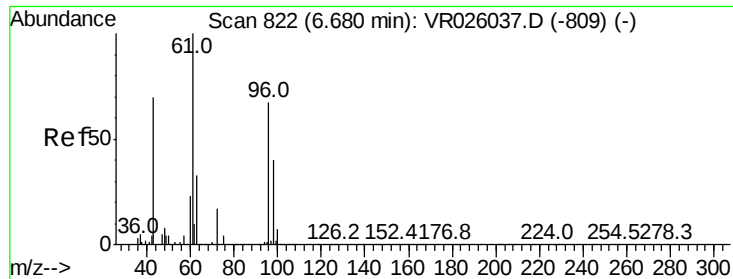
72 0.0 11.9 35.7#



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 72.10 (71.80 to 72.80): VR0



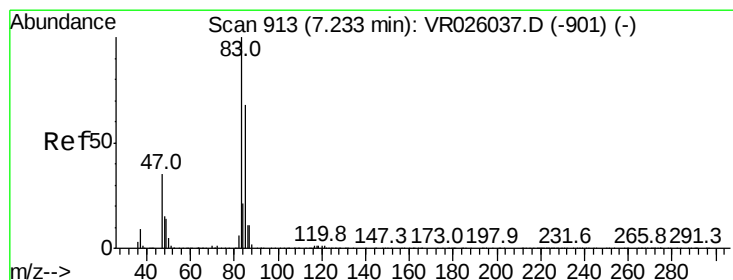
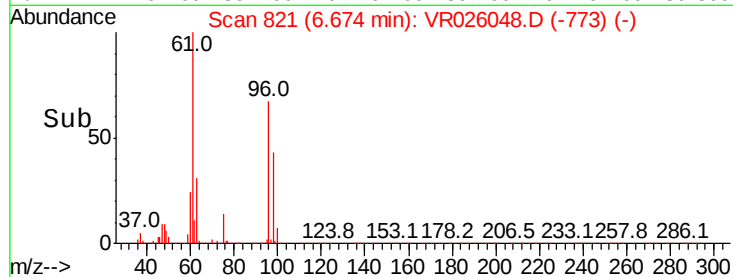
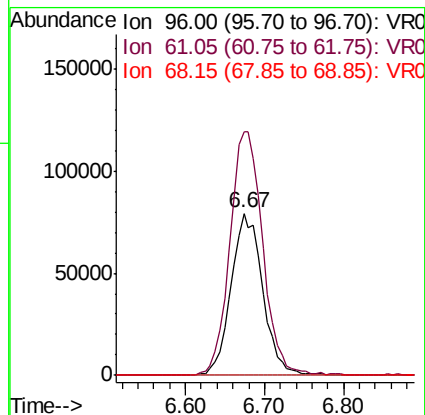
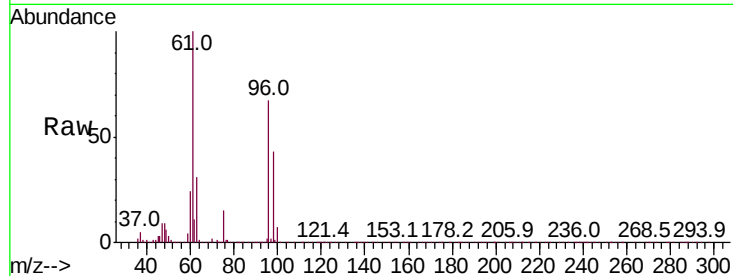


#22

cis-1,2-Dichloroethene  
 Concen: 8.232 ug/L  
 RT: 6.67 min Scan# 821  
 Delta R.T. -0.01 min  
 Lab File: VR026048.D  
 Acq: 11 Oct 2018 16:55

Instrument :  
 MSVOA\_R  
 ClientSampleId :

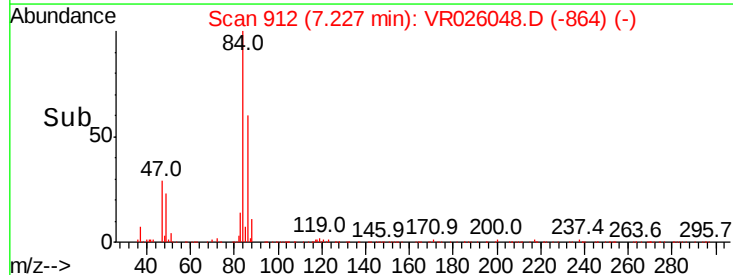
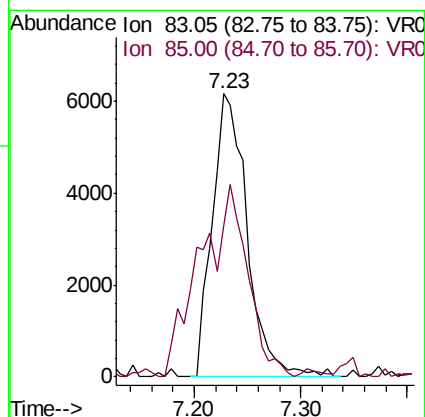
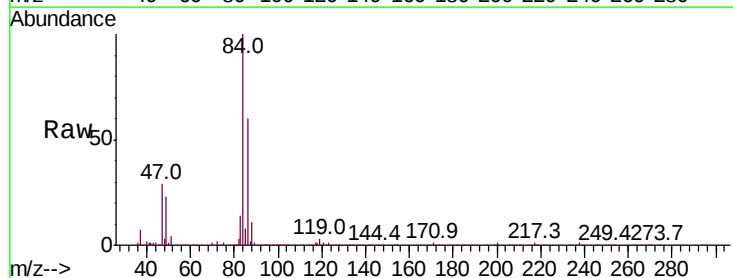
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 150.2 | 108.7 | 201.9 |
| 68      | 0.1   | 0.1   | 0.1   |

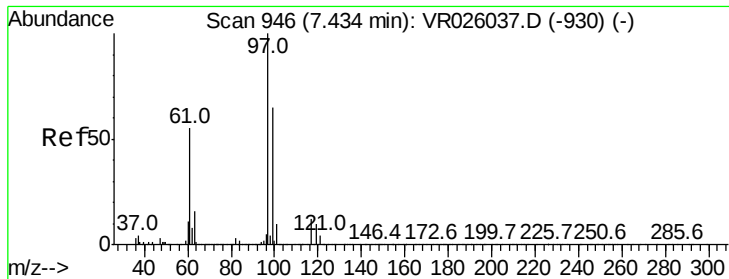


#25

Chloroform  
 Concen: 0.273 ug/L  
 RT: 7.23 min Scan# 912  
 Delta R.T. -0.01 min  
 Lab File: VR026048.D  
 Acq: 11 Oct 2018 16:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 53.5  | 43.8  | 81.4  |

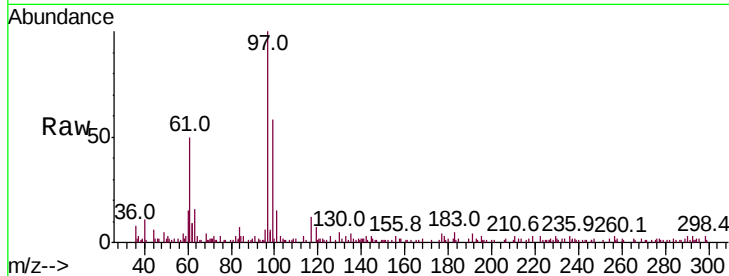




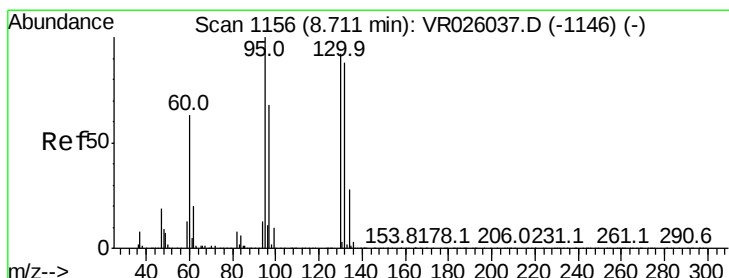
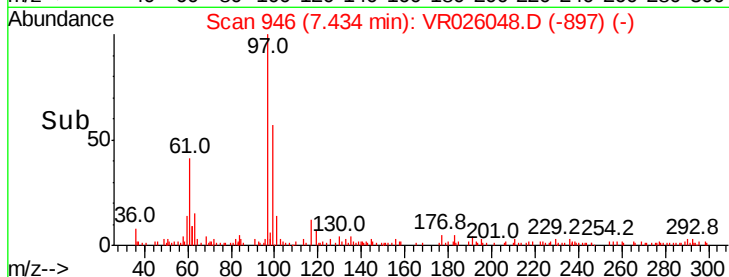
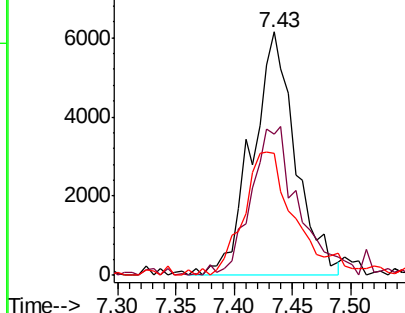
#29  
1,1,1-Trichloroethane  
Concen: 0.380 ug/L  
RT: 7.43 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Instrument :  
MSVOA\_R  
ClientSampled :

Tot Ion: 97 Resp: 15873  
Ion Ratio Lower Upper  
97 100  
99 67.1 51.0 76.6  
61 60.5 41.6 62.4

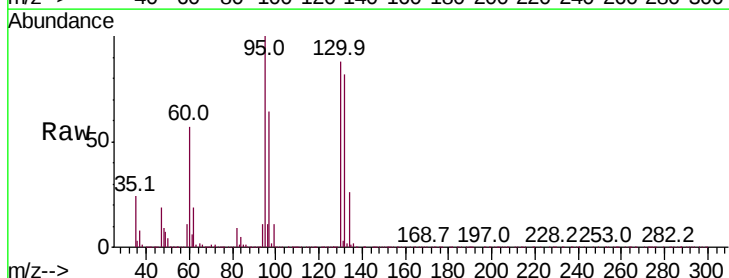


Abundance Ion 96.95 (96.65 to 97.65): VR0  
Ion 99.05 (98.75 to 99.75): VR0  
Ion 61.05 (60.75 to 61.75): VR0

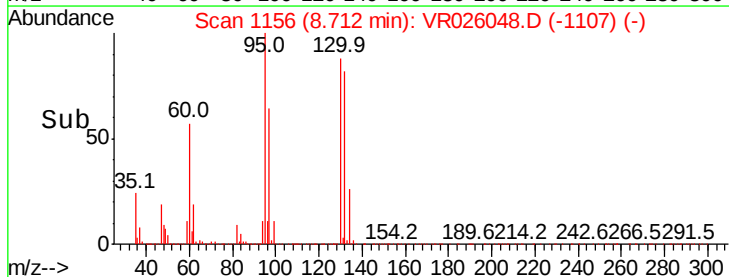
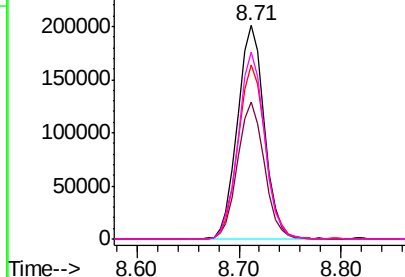


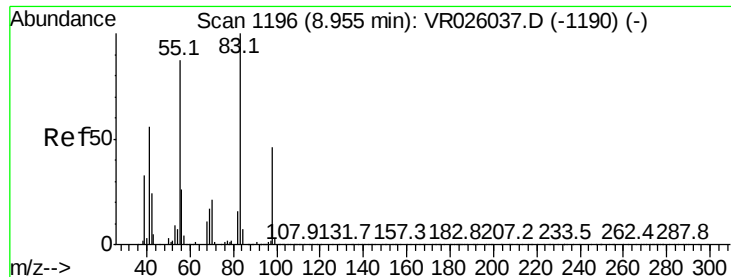
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Trichloroethene  
Concen: 11.081 ug/L  
RT: 8.71 min Scan# 1156  
Delta R.T. 0.00 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Tgt Ion: 95 Resp: 364031  
Ion Ratio Lower Upper  
95 100  
97 64.2 43.9 81.5  
132 81.8 53.3 98.9  
130 87.7 53.8 99.8



Abundance 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): V  
Ion 129.95 (129.65 to 130.65): V

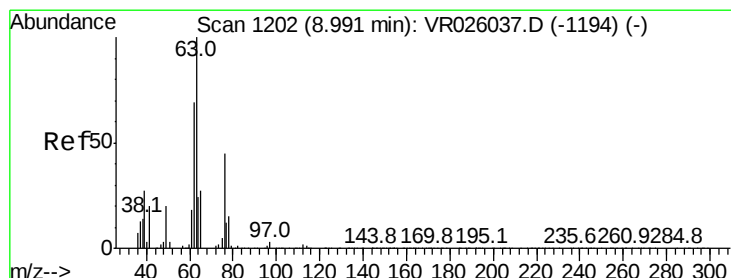
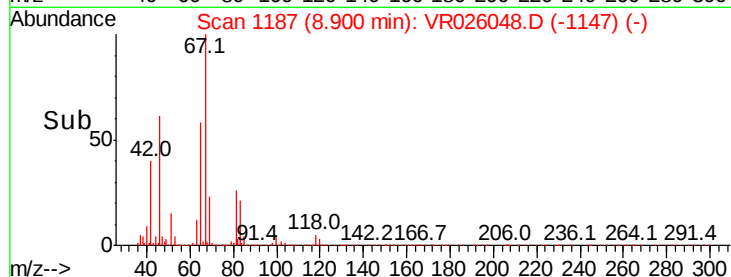
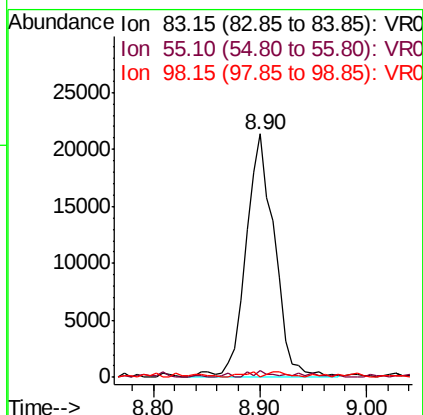
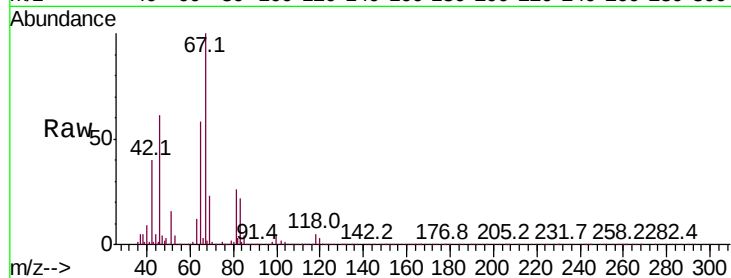




#35  
Methvlcvclohexane  
Concen: 0.815 ug/L  
RT: 8.90 min Scan# 1187  
Delta R.T. -0.05 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

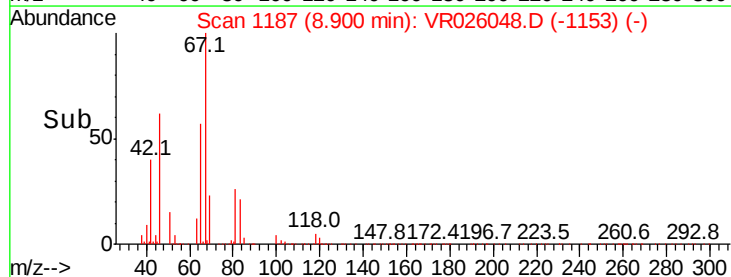
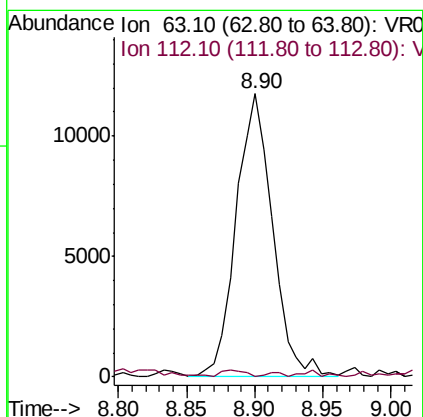
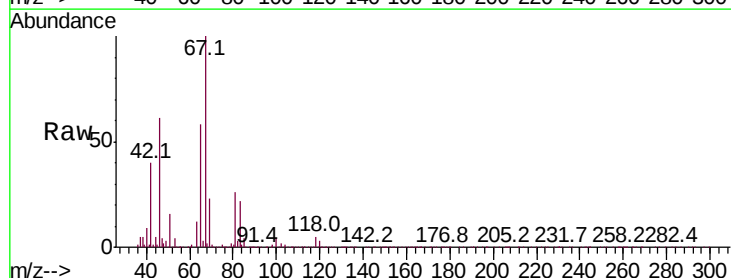
Instrument :  
MSVOA\_R  
ClientSampleId :

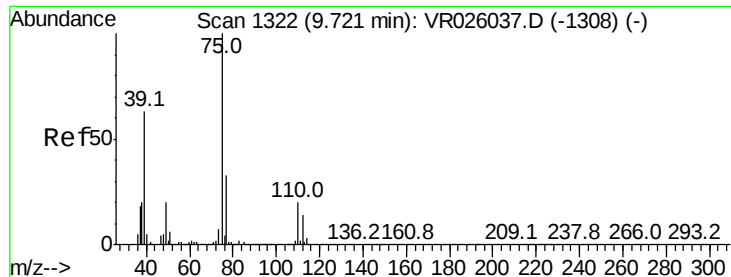
Tot Ion: 83 Resp: 40252  
Ion Ratio Lower Upper  
83 100  
55 1.8 71.8 107.6#  
98 1.3 34.2 51.4#



#37  
1,2-Dichloropropane  
Concen: 0.823 ug/L  
RT: 8.90 min Scan# 1187  
Delta R.T. -0.09 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Tgt Ion: 63 Resp: 22012  
Ion Ratio Lower Upper  
63 100  
112 0.7 2.5 3.7#



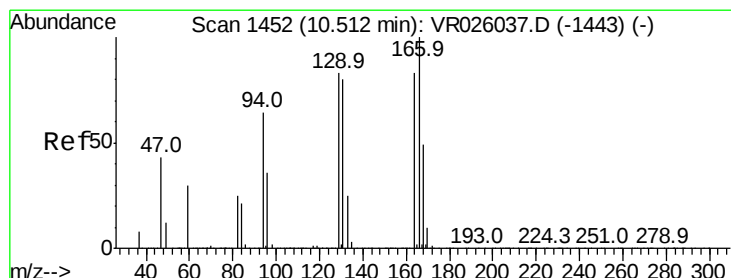
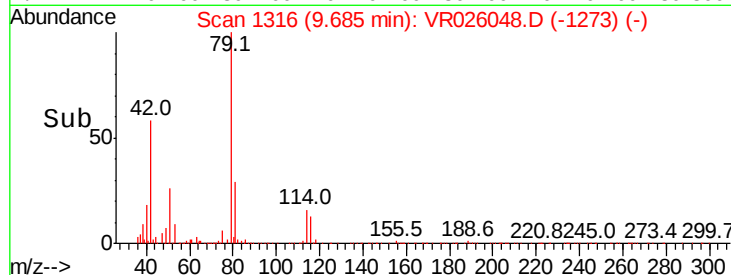
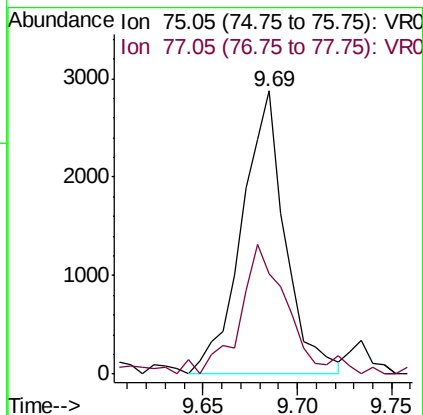
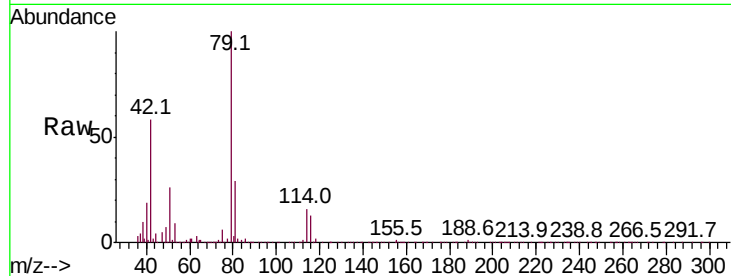


#39

cis-1,3-Dichloropropene  
Concen: 0.152 ug/L  
RT: 9.69 min Scan# 1316  
Delta R.T. -0.04 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Instrument :  
MSVOA\_R  
ClientSampleId :

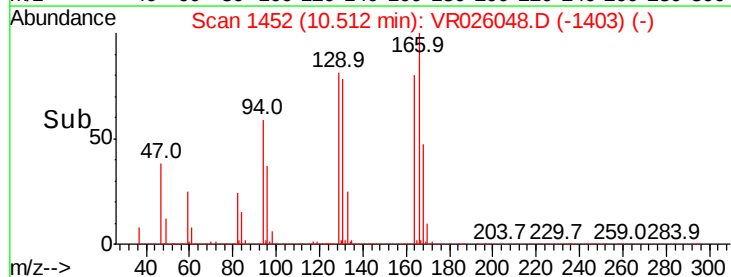
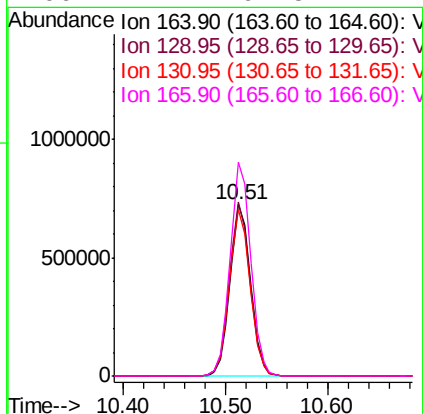
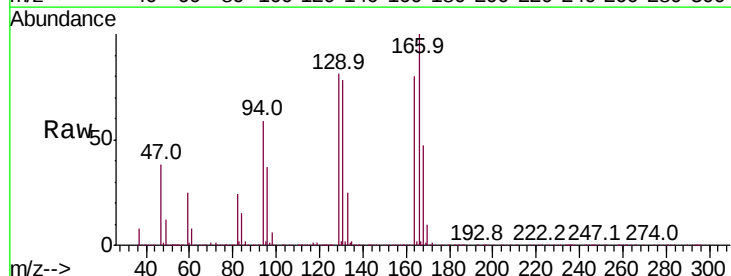
Tot Ion: 75 Resp: 4568  
Ion Ratio Lower Upper  
75 100  
77 35.6 21.5 39.9

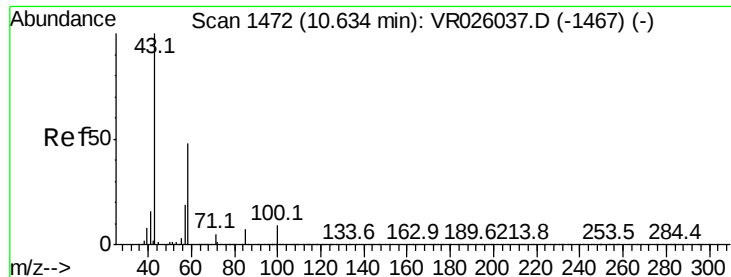


#47

Tetrachloroethene  
Concen: 49.623 ug/L  
RT: 10.51 min Scan# 1452  
Delta R.T. 0.00 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Tgt Ion:164 Resp: 1004496  
Ion Ratio Lower Upper  
164 100  
129 101.5 80.8 150.2  
131 96.9 74.5 138.3  
166 124.7 92.5 171.7

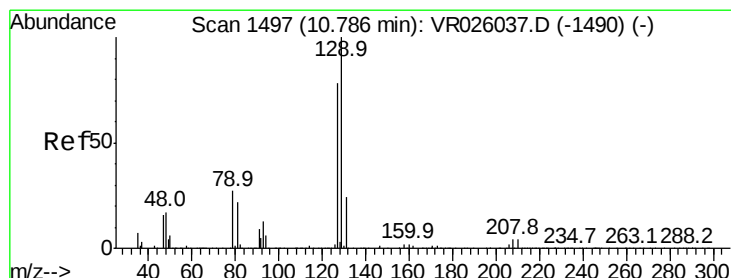
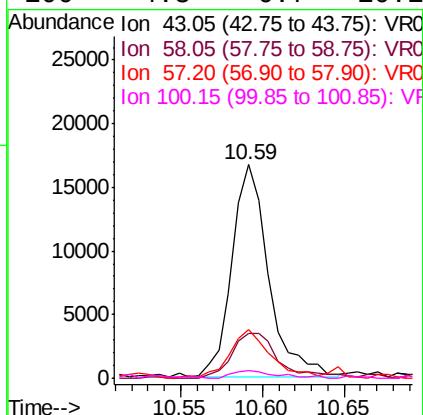
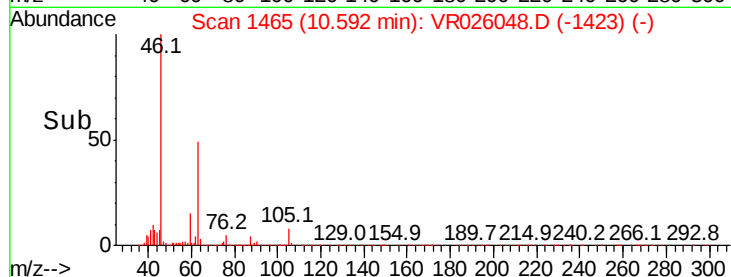
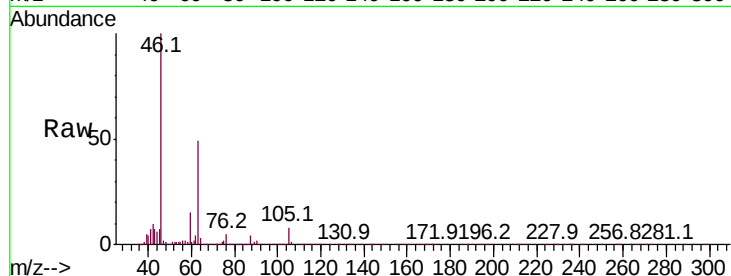




#48  
2-Hexanone  
Concen: 4.255 ug/L  
RT: 10.59 min Scan# 1465  
Delta R.T. -0.04 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Instrument :  
MSVOA\_R  
ClientSampleId :

Tot Ion: 43 Resp: 26198  
Ion Ratio Lower Upper  
43 100  
58 26.9 39.5 59.3#  
57 25.3 14.6 21.8#  
100 4.3 6.7 10.1#



#49  
Dibromochloromethane  
Concen: 72.304 ug/L  
RT: 10.51 min Scan# 1452  
Delta R.T. -0.27 min  
Lab File: VR026048.D  
Acq: 11 Oct 2018 16:55

Tgt Ion: 129 Resp: 887725  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.1 100.5#

