

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082018\  
 Data File : VV007085.D  
 Acq On : 20 Aug 2018 21:20  
 Operator : SY/MD  
 Sample : J4488-19  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0362

Quant Time: Aug 21 05:26:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Aug 21 05:25:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 243248   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 235498   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 88101    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |           |
|--------------------------------|--------|-------|----------|----------|------|-----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 78435    | 5.00     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 100.00%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 71348    | 5.36     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.20%   |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 2049408  | 69.55    | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 1391.00%# |
| 20) 2-Butanone-d5              | 3.97   | 46    | 226285   | 50.11    | ug/L | 0.00      |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.22%   |
| 24) Chloroform-d               | 4.41   | 84    | 168018   | 5.28     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.60%   |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 88348    | 5.49     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 109.80%   |
| 32) Benzene-d6                 | 5.10   | 84    | 332662   | 5.50     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.00%   |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 108372   | 5.24     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.80%   |
| 41) Toluene-d8                 | 7.37   | 98    | 231185   | 4.49     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80%    |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 23032    | 3.20     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 64.00%    |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 84767    | 28.81    | ug/L | 0.00      |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 57.62%    |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 83820    | 5.20     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.00%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 83531    | 5.45     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 109.00%   |

## Target Compounds

|                                |      |     |          |                | Ovalue |
|--------------------------------|------|-----|----------|----------------|--------|
| 9) Trichlorofluoromethane      | 1.77 | 101 | 7235     | 0.241 ug/L     | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 9826     | 0.546 ug/L #   | 29     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 3886290  | 222.489 ug/L # | 68     |
| 13) Acetone                    | 2.21 | 43  | 6822     | 2.934 ug/L     | 89     |
| 15) Methyl Acetate             | 2.47 | 43  | 2374     | 0.363 ug/L     | 92     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 513067   | 15.194 ug/L    | 98     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 7425     | 0.322 ug/L #   | 94     |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 13059606 | 415.894 ug/L   | 98     |
| 31) Carbon tetrachloride       | 4.67 | 117 | 1830187  | 69.499 ug/L    | 99     |
| 34) Trichloroethene            | 5.96 | 95  | 52277    | 2.672 ug/L     | 95     |
| 35) Methylcyclohexane          | 6.12 | 83  | 25885    | 0.824 ug/L #   | 15     |
| 37) 1,2-Dichloropropane        | 6.12 | 63  | 11580    | 0.519 ug/L #   | 87     |
| 47) Tetrachloroethene          | 8.02 | 164 | 5216     | 0.329 ug/L     | 93     |
| 48) 2-Hexanone                 | 8.20 | 43  | 42618    | 5.009 ug/L     | 90     |
| 49) Dibromochloromethane       | 8.02 | 129 | 5230     | 0.343 ug/L #   | 11     |

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ALS Vial : 22 Sample Multiplier: 1

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MSVOA\_V  
ClientSampleId :  
C0362

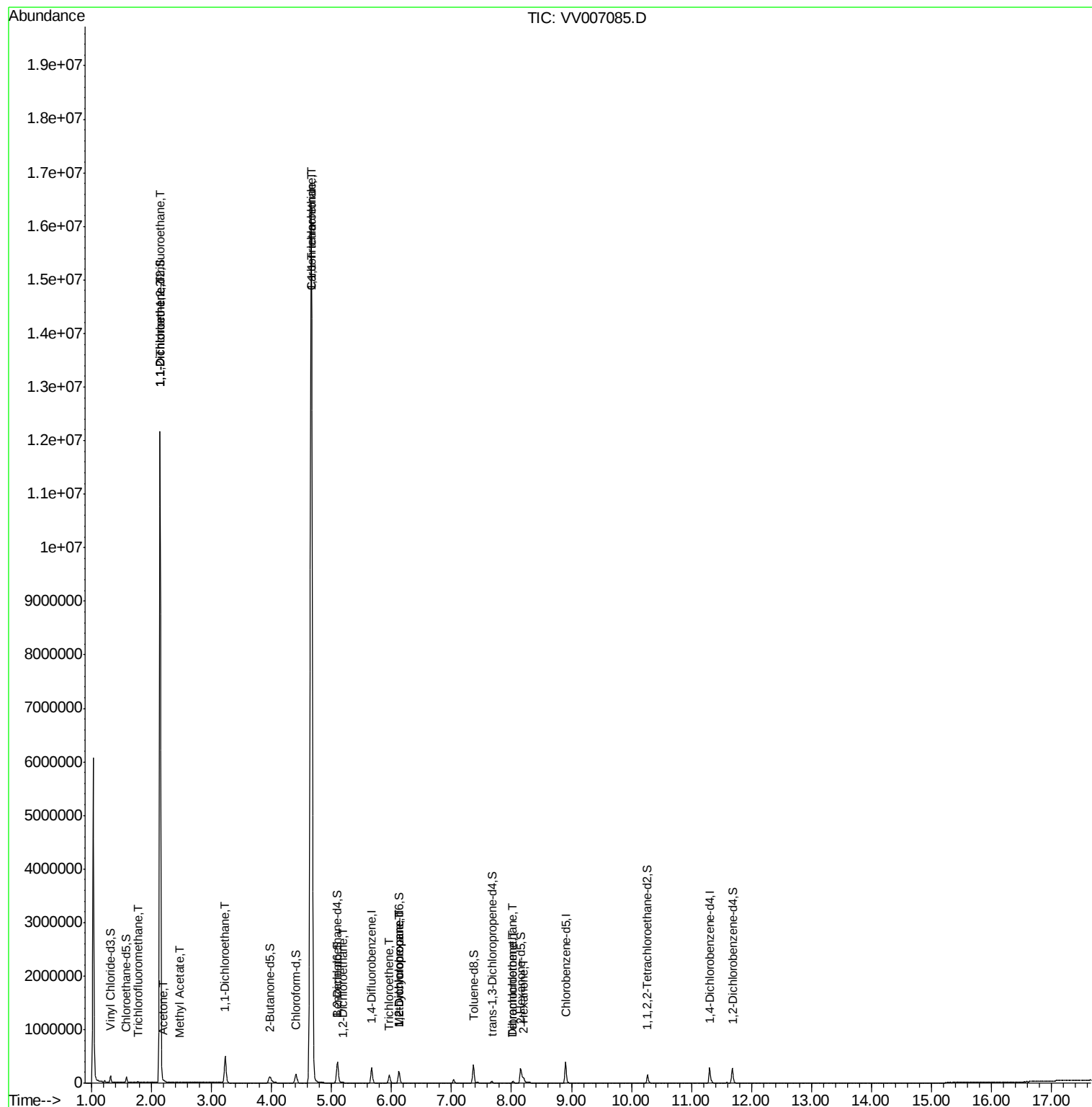
Quant Time: Aug 21 05:26:50 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR080918WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 21 05:25:12 2018  
Response via : Initial Calibration

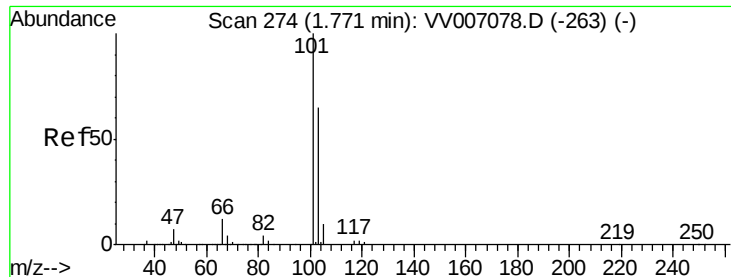
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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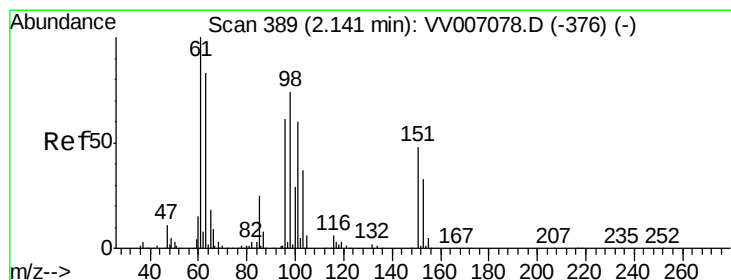
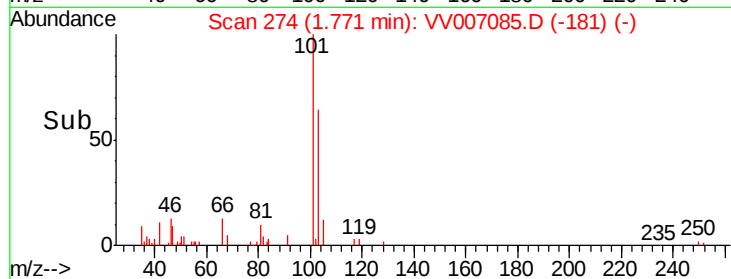
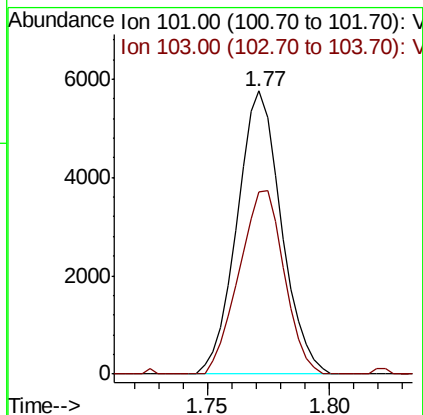
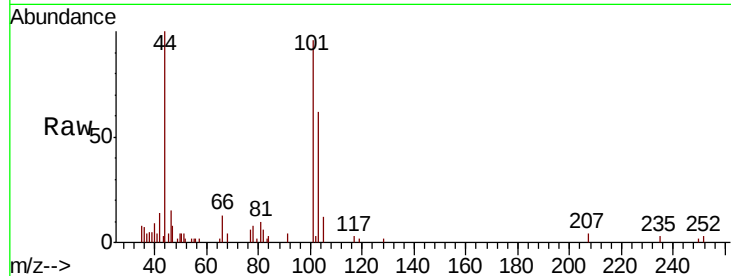


#9

Trichlorofluoromethane  
Concen: 0.241 ug/L  
RT: 1.77 min Scan# 274  
Delta R.T. -0.00 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0362

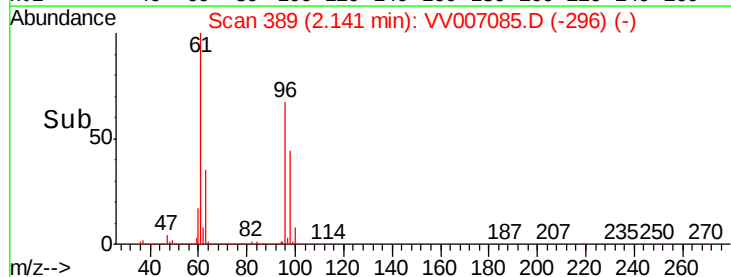
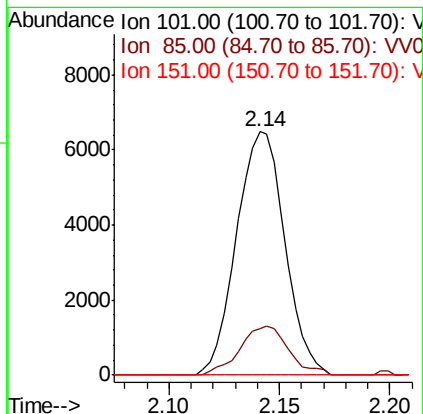
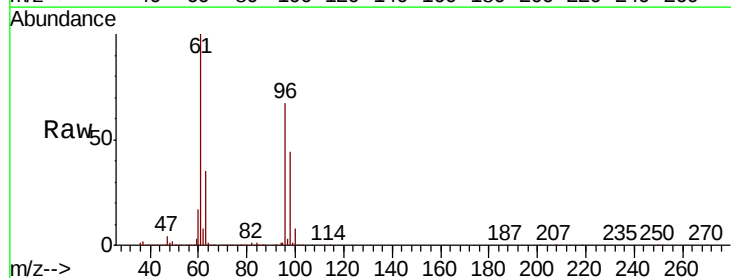
Tot Ion:101 Resp: 7235  
Ion Ratio Lower Upper  
101 100  
103 66.0 52.7 79.1

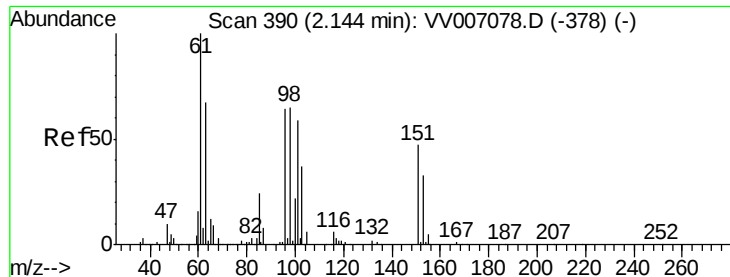


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.546 ug/L  
RT: 2.14 min Scan# 389  
Delta R.T. -0.00 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

Tgt Ion:101 Resp: 9826  
Ion Ratio Lower Upper  
101 100  
85 20.4 33.9 50.9#  
151 0.0 64.1 96.1#





#12

1,1-Dichloroethene

Concen: 222.489 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Instrument :

MSVOA\_V

ClientSampleId :

C0362

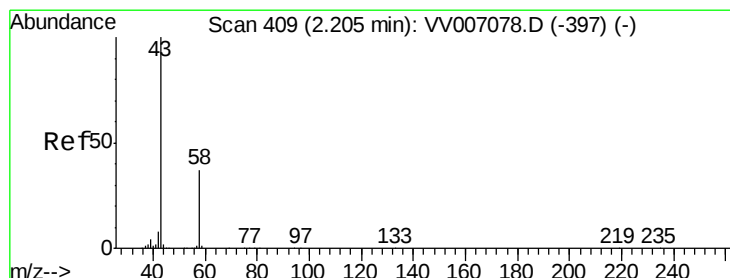
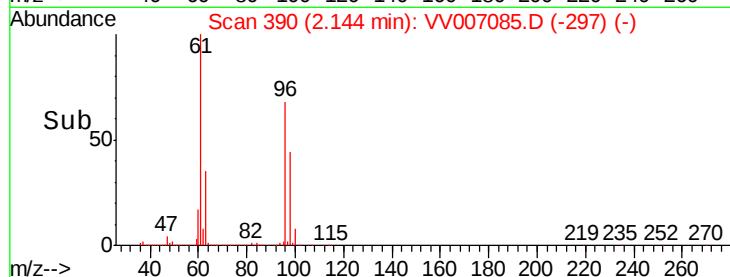
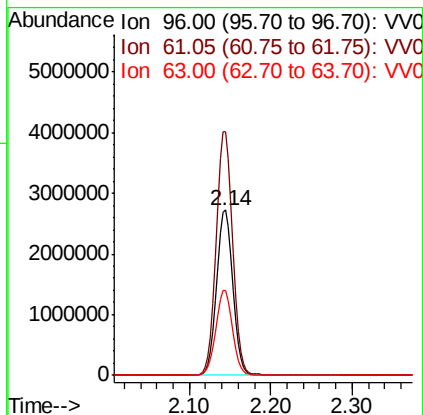
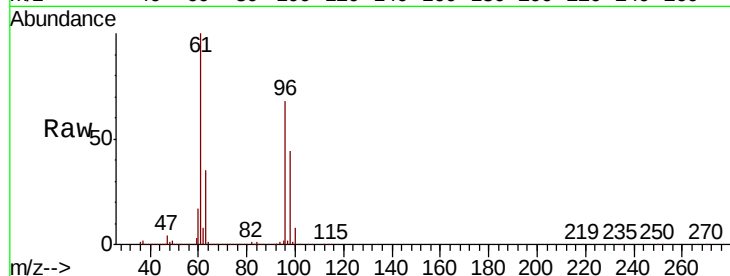
Tot Ion: 96 Resp: 3886290

Ion Ratio Lower Upper

96 100

61 147.2 111.6 207.4

63 51.0 84.9 157.7#



#13

Acetone

Concen: 2.934 ug/L

RT: 2.21 min Scan# 410

Delta R.T. 0.00 min

Lab File: VV007085.D

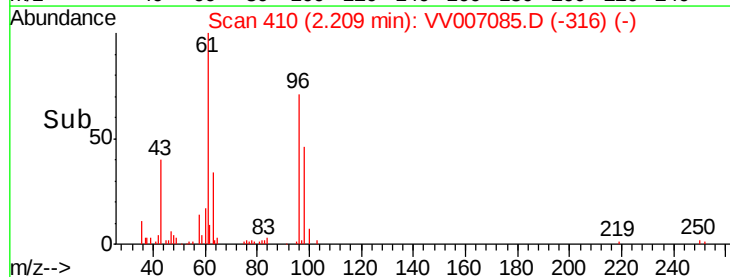
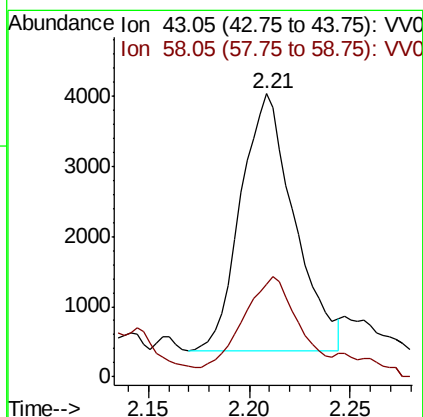
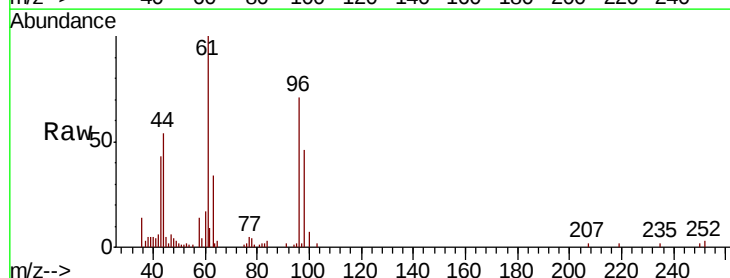
Acq: 20 Aug 2018 21:20

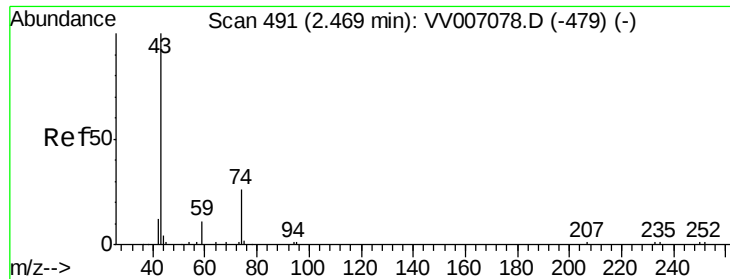
Tgt Ion: 43 Resp: 6822

Ion Ratio Lower Upper

43 100

58 42.2 0.0 71.4





#15

Methvl Acetate

Concen: 0.363 ug/L

RT: 2.47 min Scan# 490

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Instrument :

MSVOA\_V

ClientSampled :

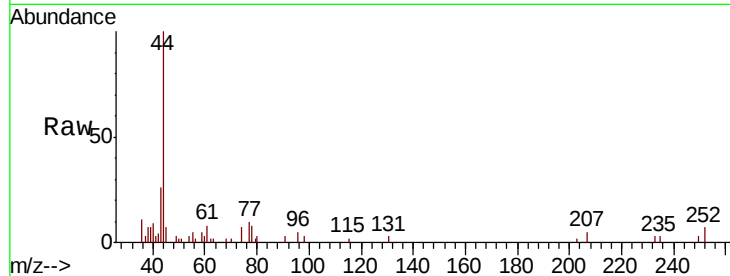
C0362

Tot Ion: 43 Resp: 2374

Ion Ratio Lower Upper

43 100

74 35.2 24.6 37.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

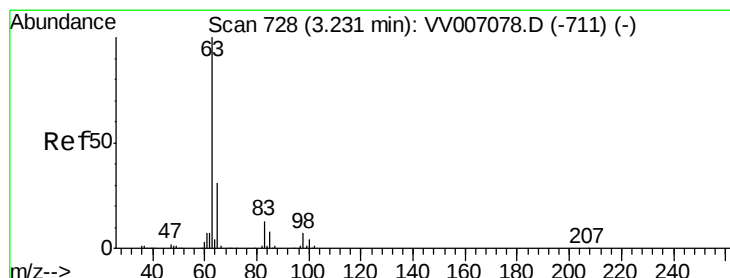
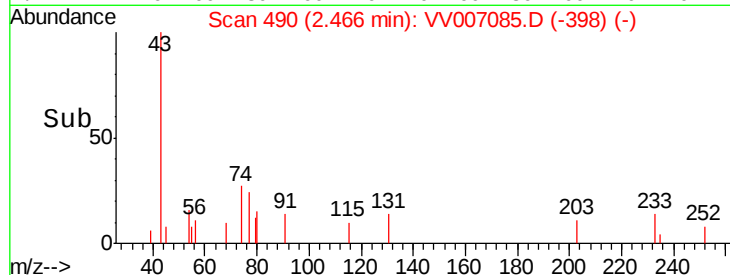
1500

1000

500

0

Time--> 2.40 2.45 2.50 2.55



#19

1,1-Dichloroethane

Concen: 15.194 ug/L

RT: 3.23 min Scan# 728

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

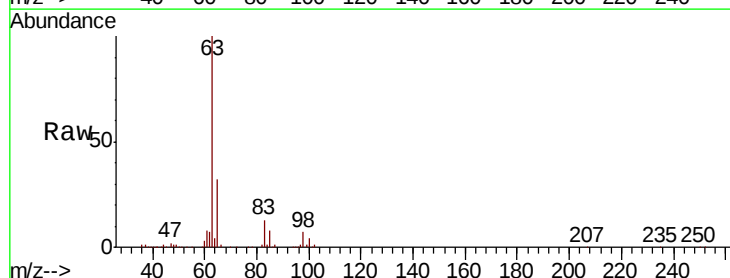
Tgt Ion: 63 Resp: 513067

Ion Ratio Lower Upper

63 100

65 31.8 21.7 40.3

83 12.6 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0

3.23

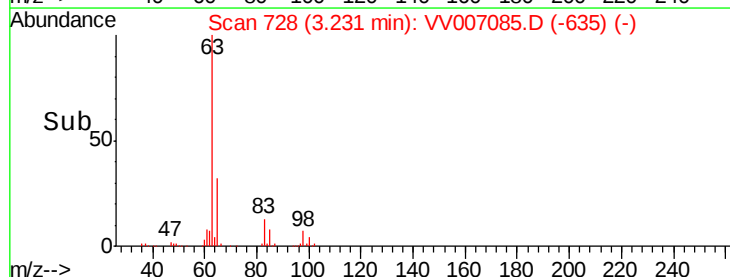
300000

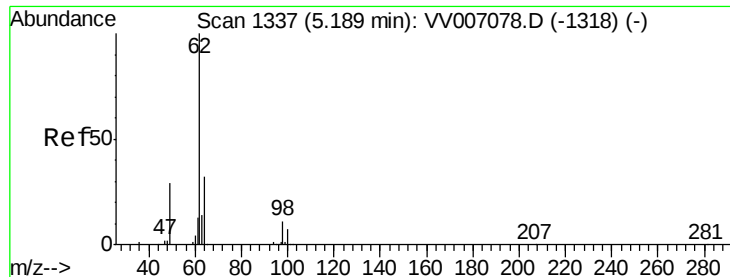
200000

100000

0

Time--> 3.10 3.20 3.30





#27

1,2-Dichloroethane

Concen: 0.322 ug/L

RT: 5.19 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Instrument :

MSVOA\_V

ClientSampleId :

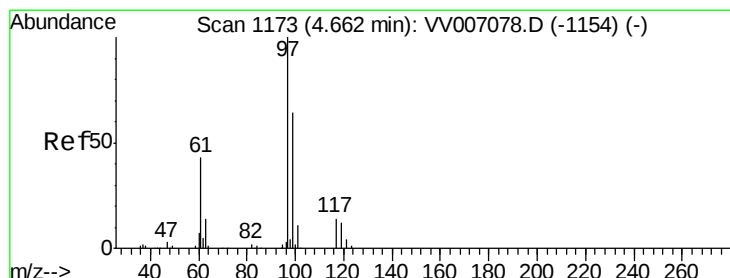
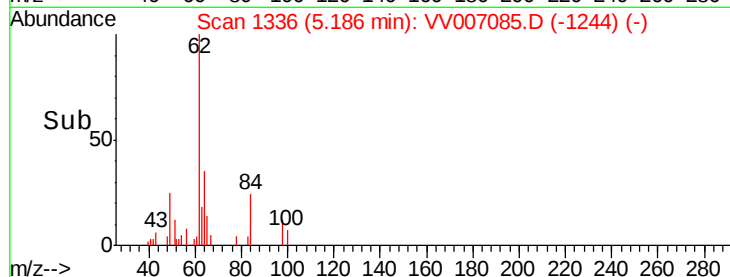
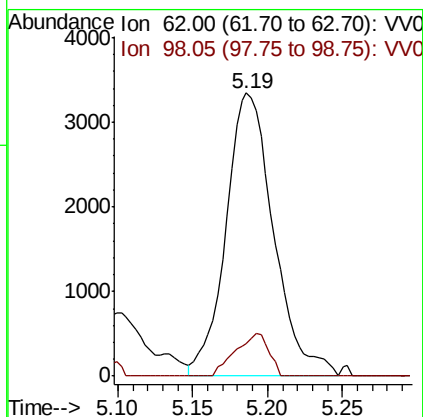
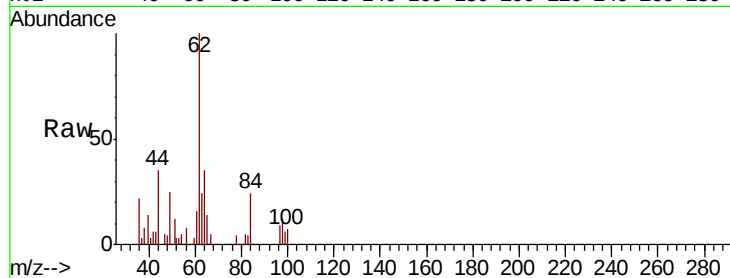
C0362

Tot Ion: 62 Resp: 7425

Ion Ratio Lower Upper

62 100

98 11.5 7.6 11.4#



#29

1,1,1-Trichloroethane

Concen: 415.894 ug/L

RT: 4.66 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

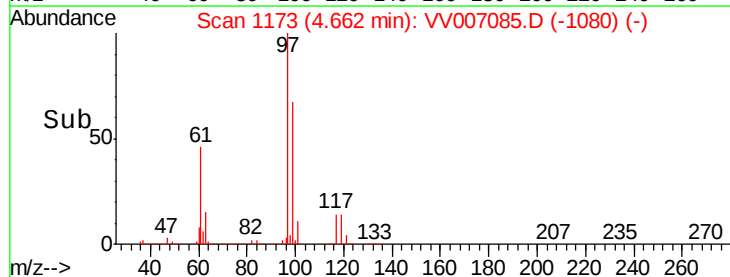
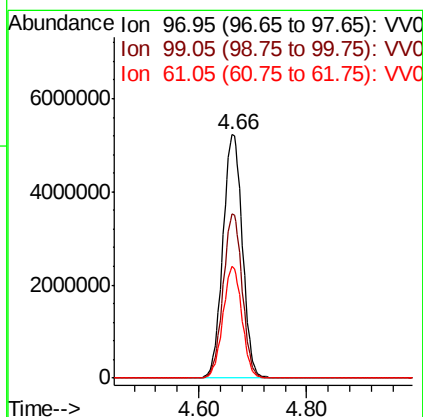
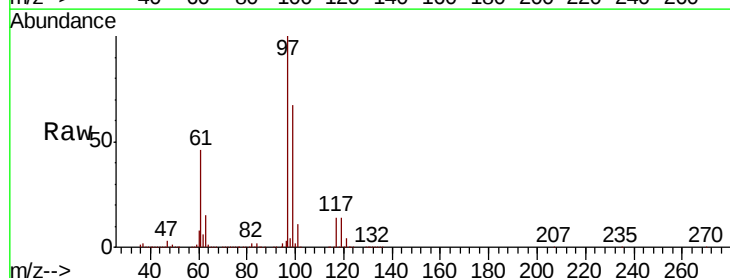
Tgt Ion: 97 Resp: 13059606

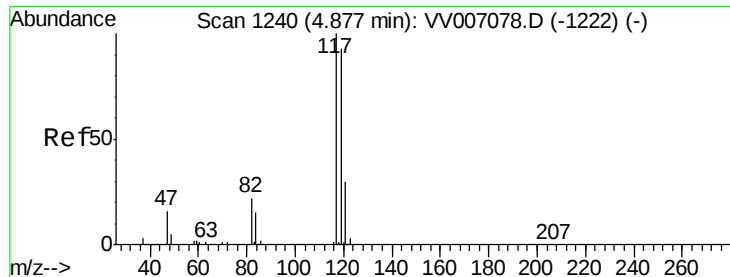
Ion Ratio Lower Upper

97 100

99 66.2 51.0 76.6

61 44.6 36.6 54.8





#31

Carbon tetrachloride

Concen: 69.499 ug/L

RT: 4.67 min Scan# 1174

Delta R.T. -0.21 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Instrument :

MSVOA\_V

ClientSampleId :

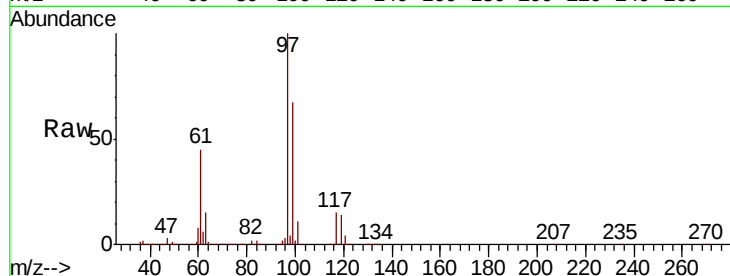
C0362

Tot Ion:117 Resp: 1830187

Ion Ratio Lower Upper

117 100

119 96.2 76.2 114.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.67

800000

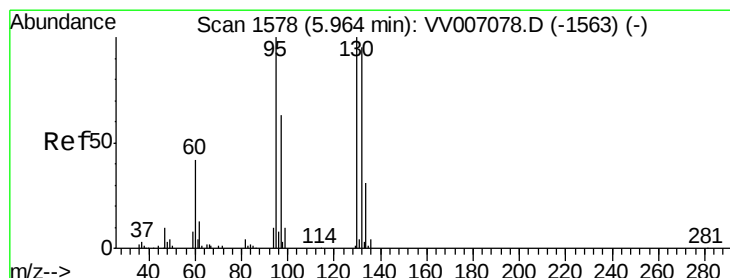
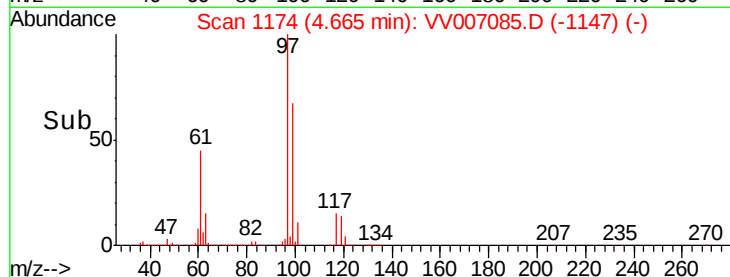
600000

400000

200000

0

Time--> 4.50 4.60 4.70 4.80



#34

Trichloroethene

Concen: 2.672 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Tgt Ion: 95 Resp: 52277

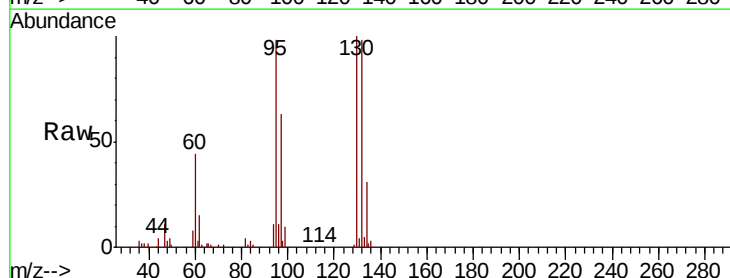
Ion Ratio Lower Upper

95 100

97 64.1 44.8 83.2

132 100.0 65.5 121.6

130 101.8 66.4 123.4



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

40000

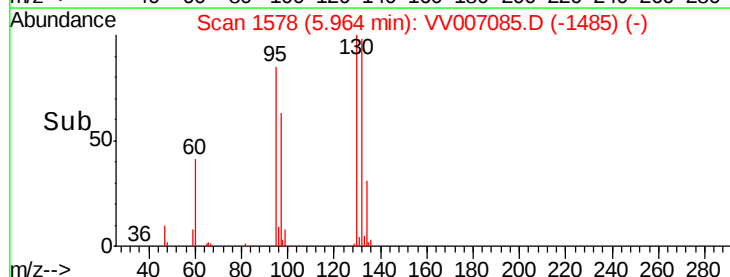
30000

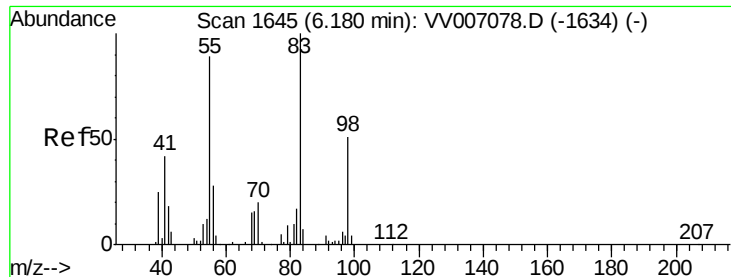
20000

10000

0

Time--> 5.90 5.95 6.00 6.05

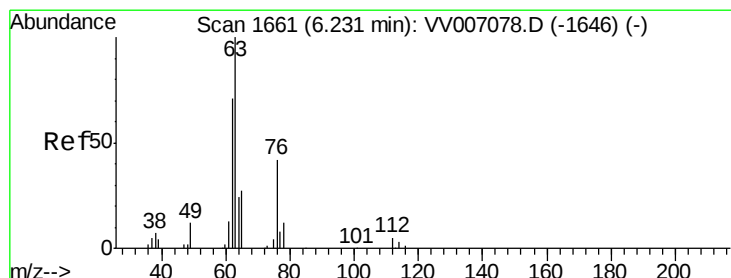
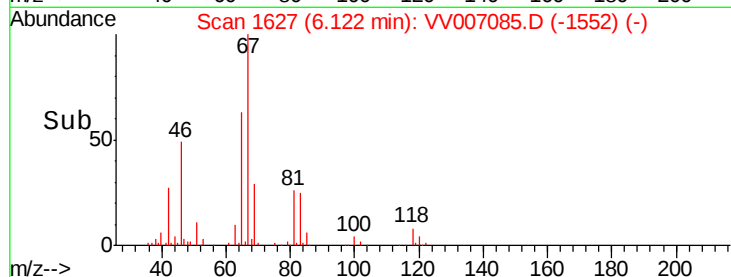
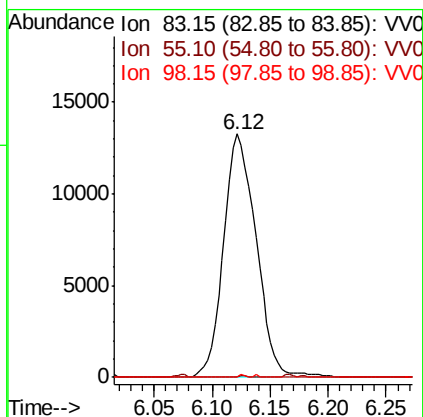
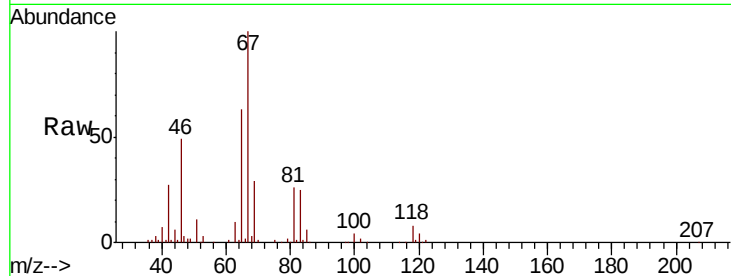




#35  
Methvlcvclohexane  
Concen: 0.824 ug/L  
RT: 6.12 min Scan# 1627  
Delta R.T. -0.06 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

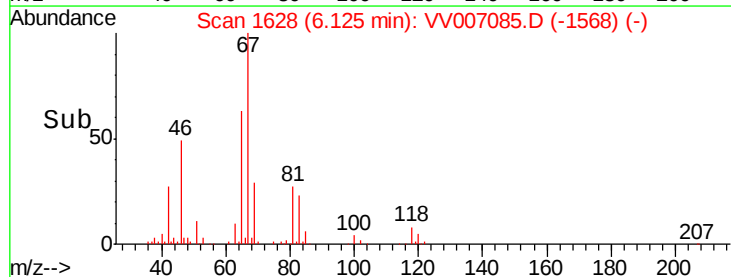
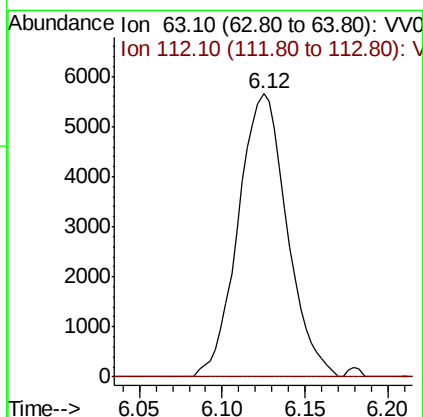
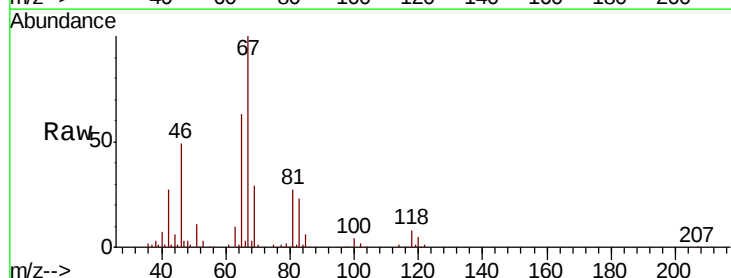
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0362

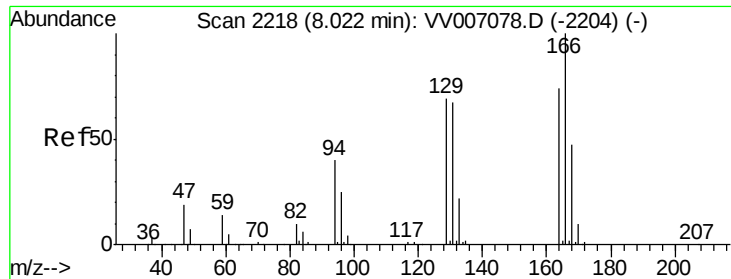
Tot Ion: 83 Resp: 25885  
Ion Ratio Lower Upper  
83 100  
55 0.2 68.1 102.1#  
98 0.0 37.9 56.9#



#37  
1,2-Dichloropropane  
Concen: 0.519 ug/L  
RT: 6.12 min Scan# 1628  
Delta R.T. -0.11 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

Tgt Ion: 63 Resp: 11580  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.5 5.3#

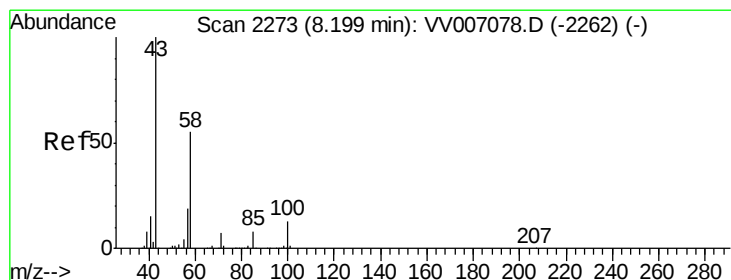
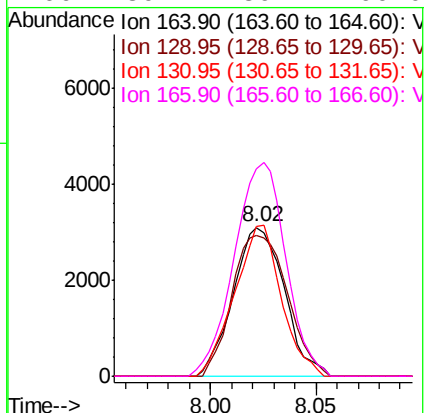
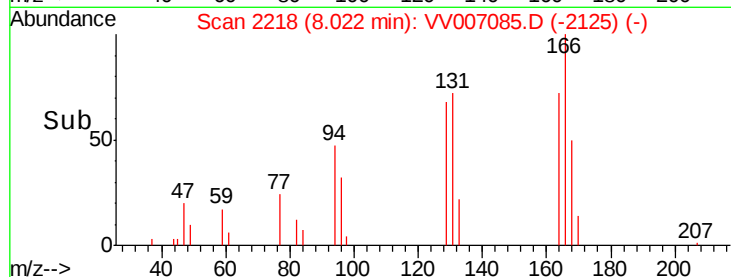
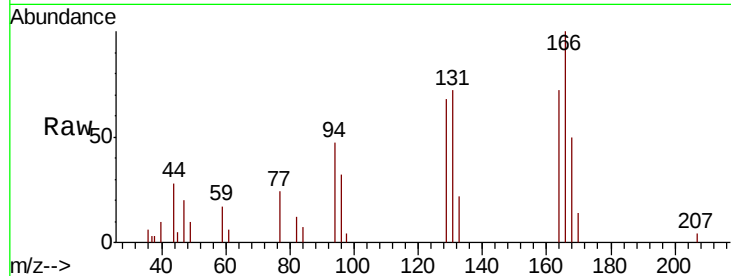




#47  
Tetrachloroethene  
Concen: 0.329 ug/L  
RT: 8.02 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

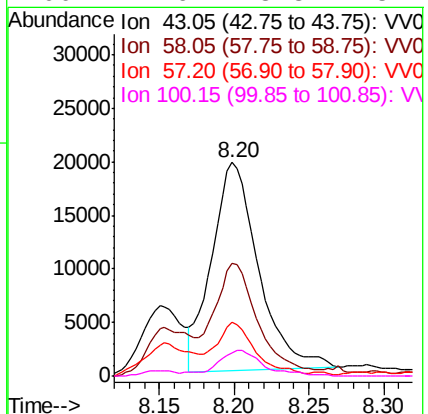
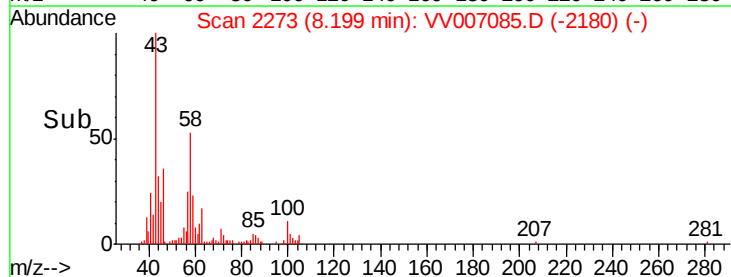
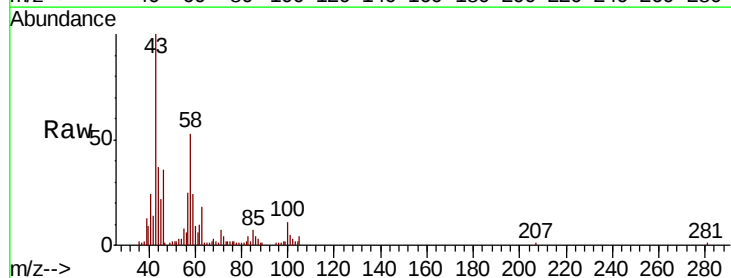
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0362

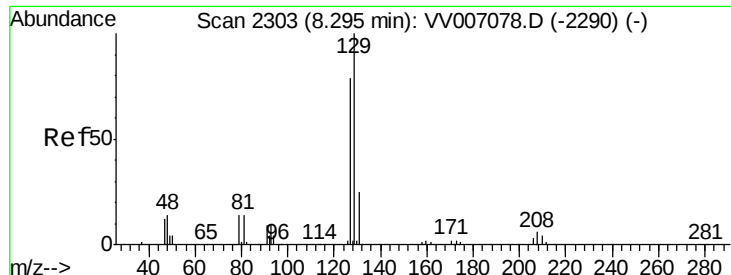
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:164 | Resp: | 5216        |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 129         | 94.9  | 65.9 122.3  |
| 131         | 100.4 | 64.2 119.2  |
| 166         | 139.2 | 89.4 166.0  |



#48  
2-Hexanone  
Concen: 5.009 ug/L  
RT: 8.20 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: VV007085.D  
Acq: 20 Aug 2018 21:20

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 42618       |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 46.0  | 44.2 66.2   |
| 57          | 20.8  | 14.8 22.2   |
| 100         | 11.6  | 8.8 13.2    |





#49

Dibromochloromethane

Concen: 0.343 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.27 min

Lab File: VV007085.D

Acq: 20 Aug 2018 21:20

Instrument :

MSVOA\_V

ClientSampleId :

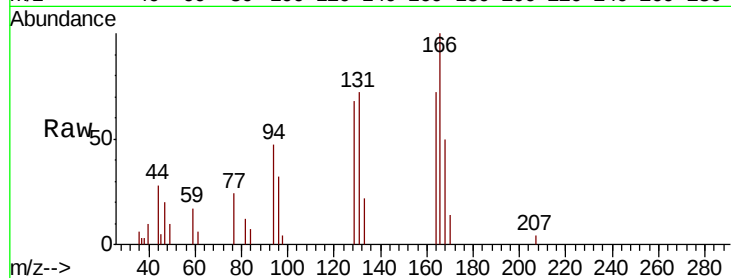
C0362

Tot Ion:129 Resp: 5230

Ion Ratio Lower Upper

129 100

127 0.0 53.3 98.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

