

Data File : VV009698.D  
Acq On : 15 Mar 2019 20:19  
Operator : SY/MD  
Sample : K1939-15  
Misc : 5.56g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFOX8ME

Quant Time: Mar 16 02:37:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Mar 16 02:32:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 275961   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 274691   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 124800   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 62928    | 38.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.06%  |
| 7) Chloroethane-d5             | 1.55    | 69    | 42439    | 24.96    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 49.92%# |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 142245   | 33.01    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.02%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 124300   | 102.98   | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.98% |
| 24) Chloroform-d               | 4.40    | 84    | 161930   | 45.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.78%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 112788   | 47.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.56%  |
| 32) Benzene-d6                 | 5.09    | 84    | 331302   | 46.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.76%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 103759   | 48.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.16%  |
| 41) Toluene-d8                 | 7.36    | 98    | 325818   | 46.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.64%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 49307    | 44.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.40%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 105006   | 112.41   | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 112.41% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 174044   | 50.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.46% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 127065   | 48.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.52%  |

#### Target Compounds

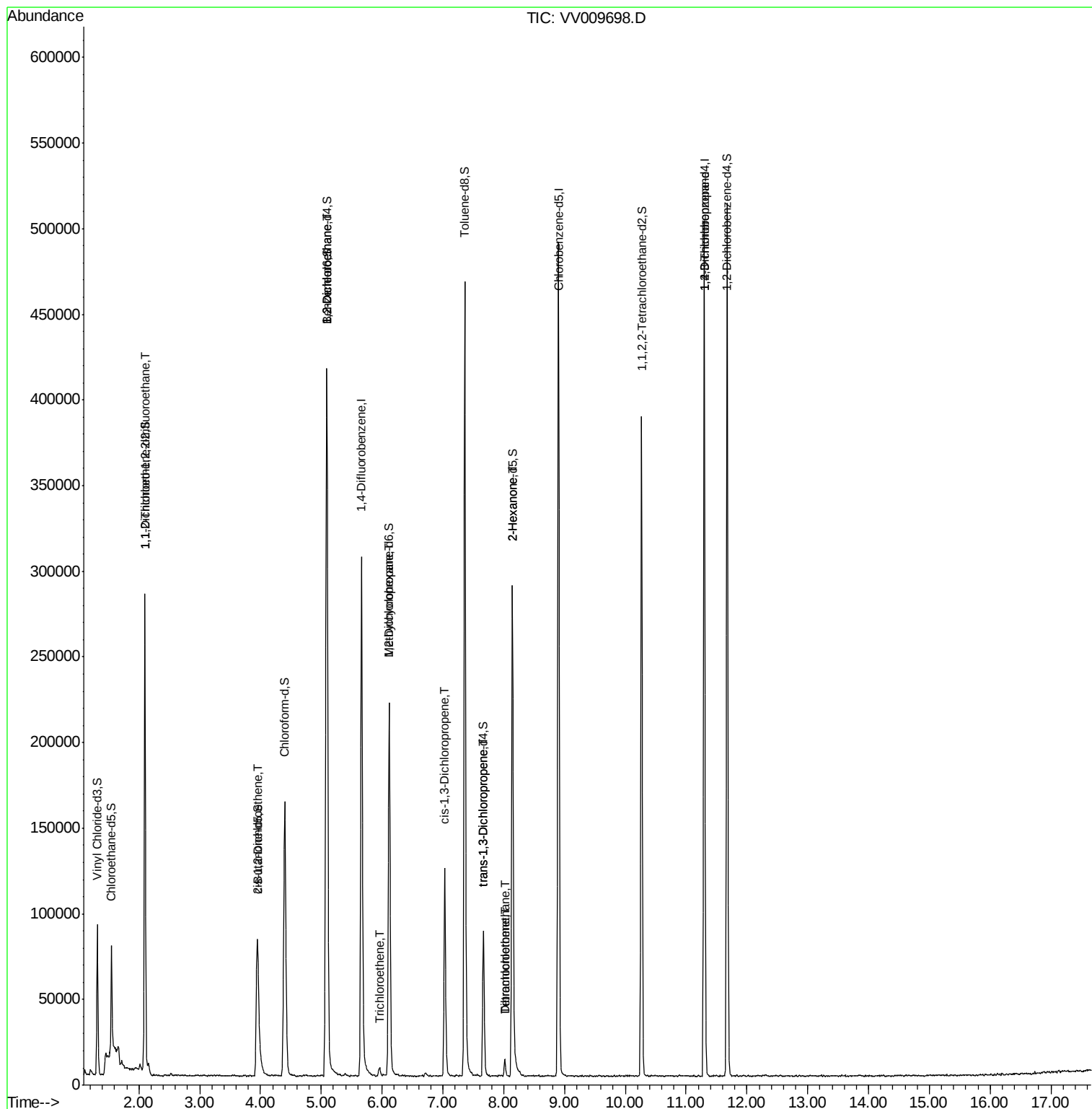
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.09  | 101 | 1227  | 0.587 ug/L # | 19     |
| 20) cis-1,2-Dichloroethene     | 3.96  | 96  | 11304 | 5.962 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 5.10  | 62  | 2022  | 0.764 ug/L # | 78     |
| 34) Trichloroethene            | 5.96  | 95  | 1409  | 0.766 ug/L   | 88     |
| 35) Methylcyclohexane          | 6.12  | 83  | 25038 | 8.412 ug/L # | 20     |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 4022  | 1.436 ug/L # | 51     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 2719  | 1.034 ug/L # | 78     |
| 46) Tetrachloroethene          | 8.02  | 164 | 2036  | 1.407 ug/L   | 92     |
| 48) 2-Hexanone                 | 8.14  | 43  | 11994 | 6.373 ug/L # | 64     |
| 49) Dibromochloromethane       | 8.02  | 129 | 2002  | 0.992 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 16670 | 6.997 ug/L # | 87     |

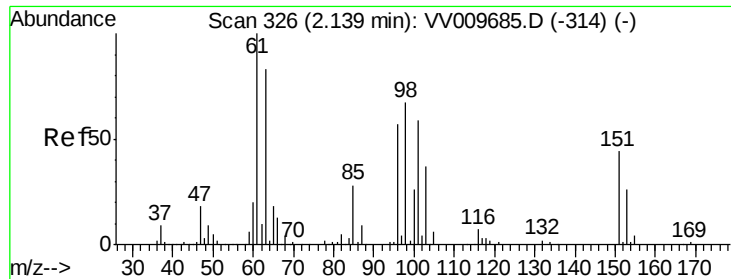
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFOX8ME

Quant Time: Mar 16 02:37:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Mar 16 02:32:06 2019  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.587 ug/L

RT: 2.09 min Scan# 312

Delta R.T. -0.05 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

Instrument :

MSVOA\_V

ClientSampleId :

BFOX8ME

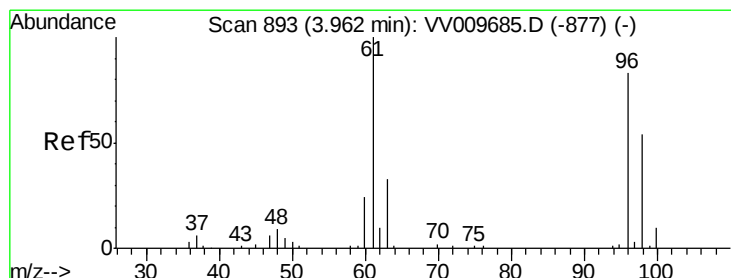
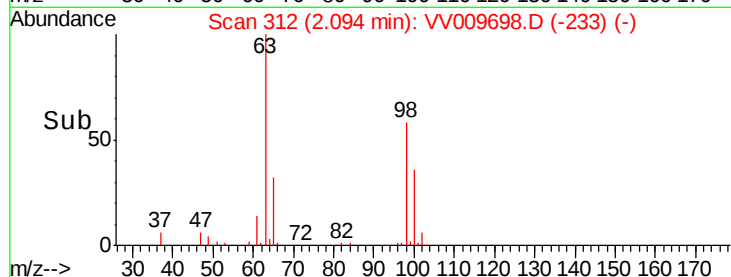
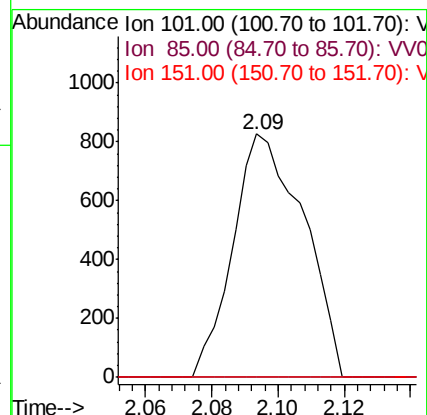
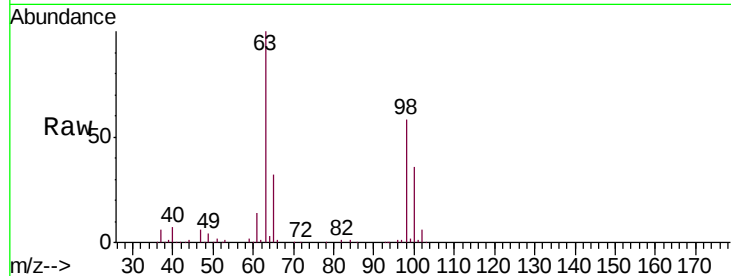
Tgt Ion: 101 Resp: 1227

Ion Ratio Lower Upper

101 100

85 0.0 37.8 56.6#

151 0.0 59.6 89.4#



#20

cis-1,2-Dichloroethene

Concen: 5.962 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

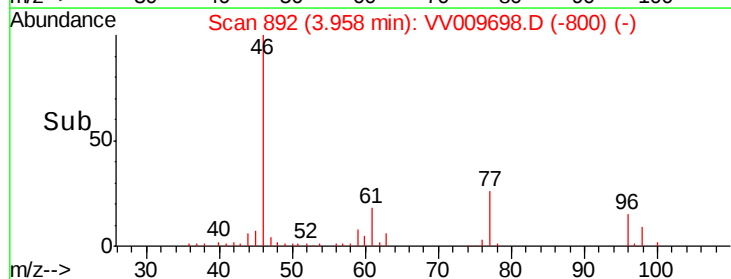
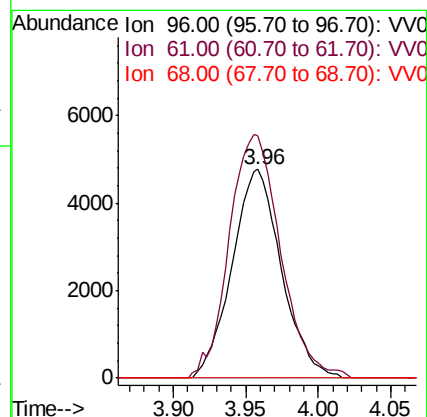
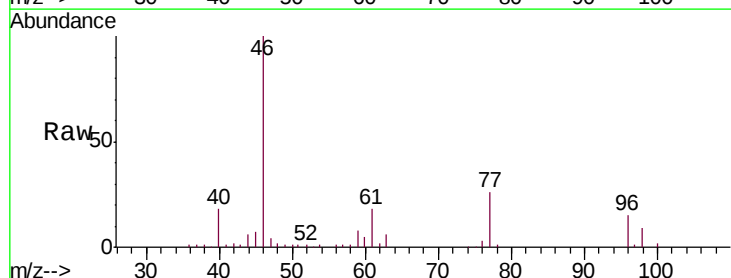
Tgt Ion: 96 Resp: 11304

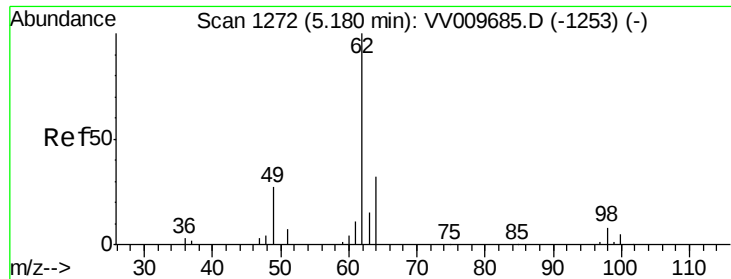
Ion Ratio Lower Upper

96 100

61 115.9 82.4 153.0

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.764 ug/L

RT: 5.10 min Scan# 1246

Delta R.T. -0.08 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

Instrument :

MSVOA\_V

ClientSampleId :

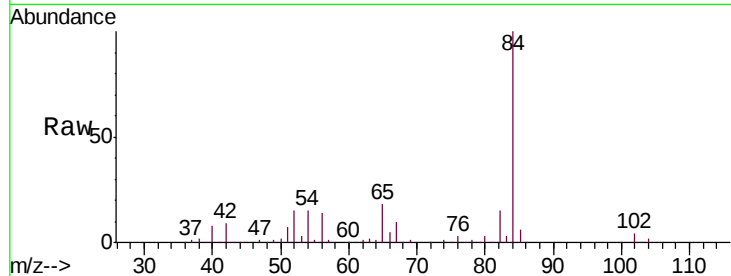
BFOX8ME

Tgt Ion: 62 Resp: 2022

Ion Ratio Lower Upper

62 100

98 0.0 6.2 9.4#



Abundance Ion 62.00 (61.70 to 62.70): VV009685.D (-1253) (-)

Ion 98.00 (97.70 to 98.70): VV009685.D (-1253) (-)

5.10

800

600

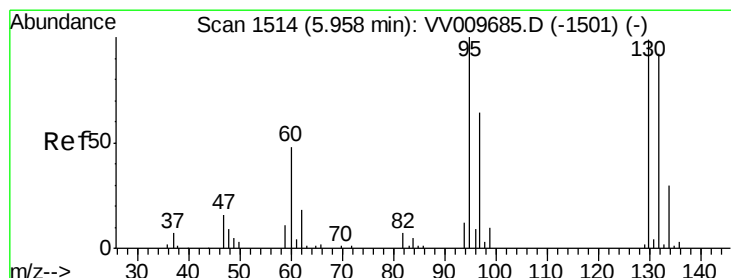
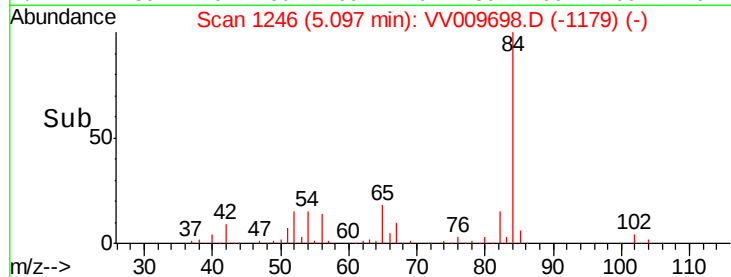
400

200

0

5.05 5.10 5.15

Time-->



#34

Trichloroethene

Concen: 0.766 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

Tgt Ion: 95 Resp: 1409

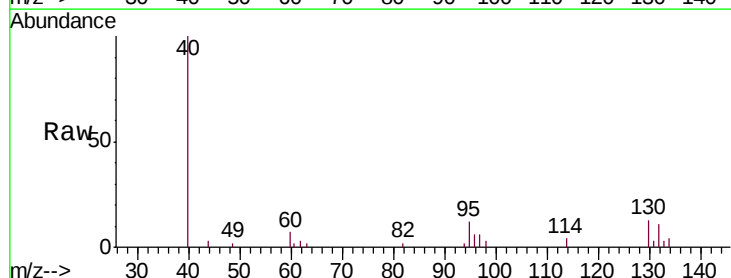
Ion Ratio Lower Upper

95 100

97 47.6 44.2 82.2

132 85.2 66.5 123.5

130 104.4 67.8 125.8



Abundance Ion 95.00 (94.70 to 95.70): VV009685.D (-1501) (-)

Ion 97.00 (96.70 to 97.70): VV009685.D (-1501) (-)

Ion 132.00 (131.70 to 132.70): VV009685.D (-1501) (-)

Ion 130.00 (129.70 to 130.70): VV009685.D (-1501) (-)

5.96

800

600

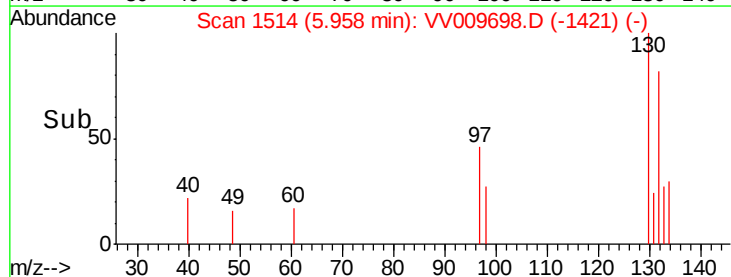
400

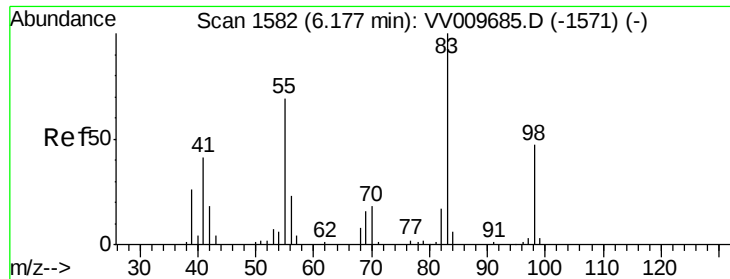
200

0

5.90 5.95 6.00

Time-->

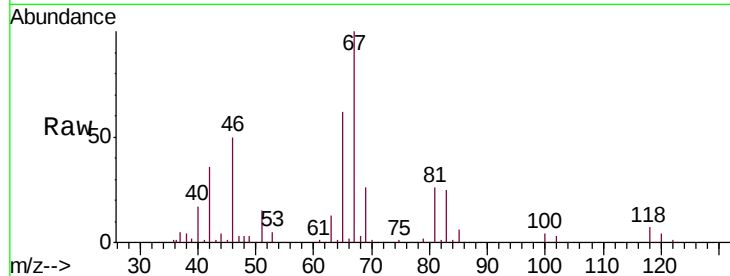




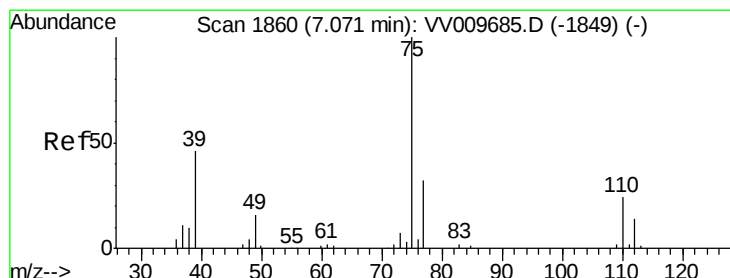
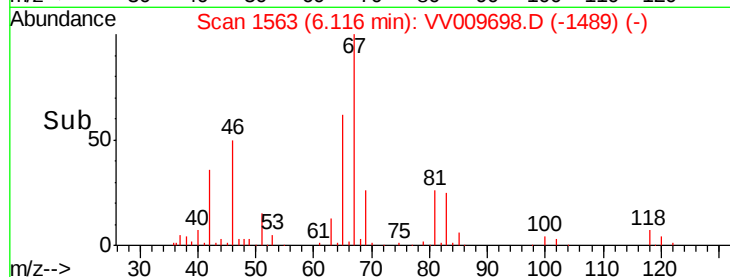
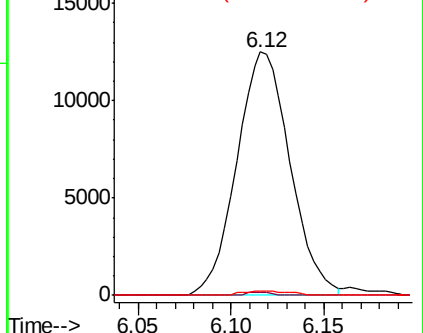
#35  
Methylcyclohexane  
Concen: 8.412 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.06 min  
Lab File: VV009698.D  
Acq: 15 Mar 2019 20:19

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFOX8ME

Tgt Ion: 83 Resp: 25038  
Ion Ratio Lower Upper  
83 100  
55 0.5 57.9 86.9#  
98 1.2 39.2 58.8#

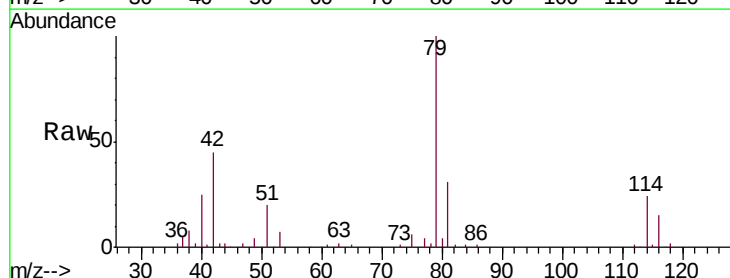


Abundance Ion 83.00 (82.70 to 83.70): VV009685.D (-1571) (-)  
Ion 55.00 (54.70 to 55.70): VV009685.D (-1571) (-)  
Ion 98.00 (97.70 to 98.70): VV009685.D (-1571) (-)

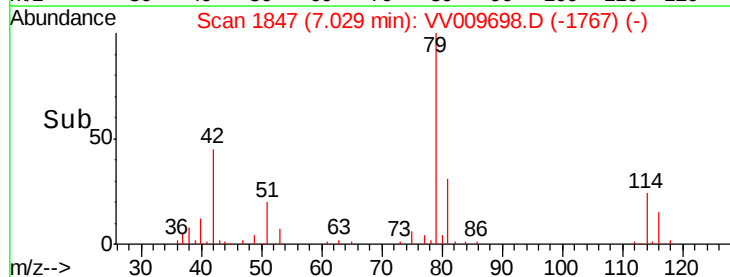
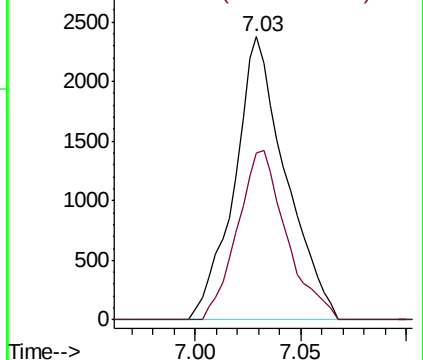


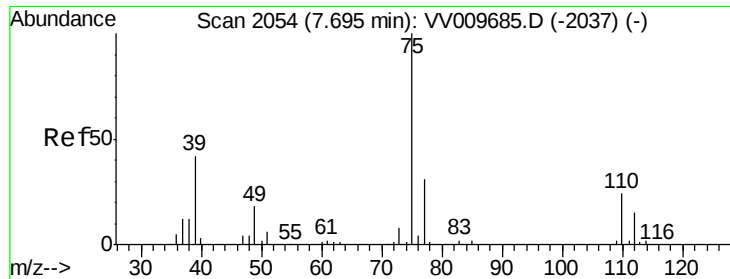
#39  
cis-1,3-Dichloropropene  
Concen: 1.436 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
Lab File: VV009698.D  
Acq: 15 Mar 2019 20:19

Tgt Ion: 75 Resp: 4022  
Ion Ratio Lower Upper  
75 100  
77 59.1 22.3 41.5#



Abundance Ion 75.00 (74.70 to 75.70): VV009685.D (-1849) (-)  
Ion 77.00 (76.70 to 77.70): VV009685.D (-1849) (-)





#44

trans-1,3-Dichloropropene

Concen: 1.034 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

Instrument :

MSVOA\_V

ClientSampleId :

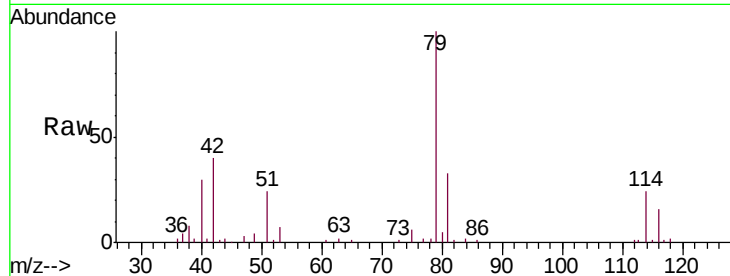
BFOX8ME

Tgt Ion: 75 Resp: 2719

Ion Ratio Lower Upper

75 100

77 42.8 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VV009685.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009685.D (-2037) (-)

7.67

1500

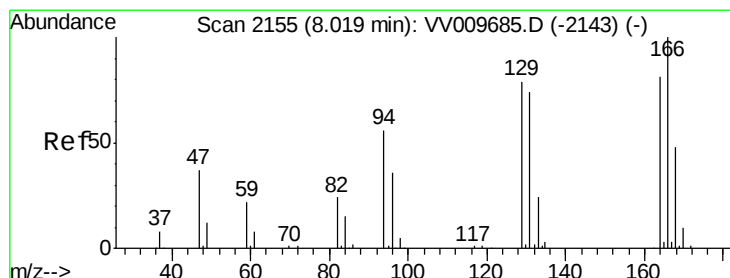
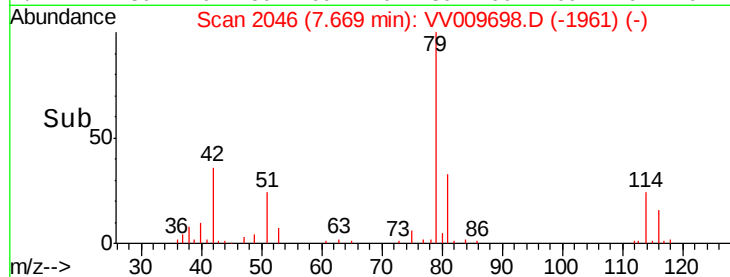
1000

500

0

7.65 7.70

Time-->



#46

Tetrachloroethene

Concen: 1.407 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009698.D

Acq: 15 Mar 2019 20:19

Tgt Ion: 164 Resp: 2036

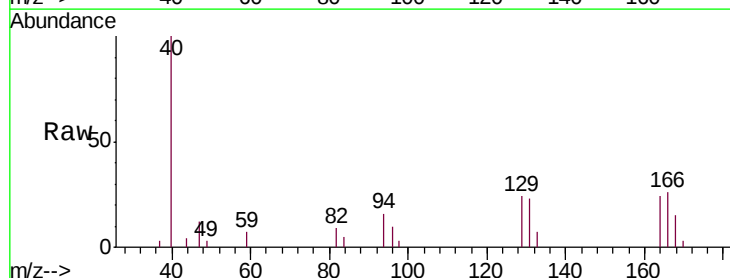
Ion Ratio Lower Upper

164 100

129 99.4 70.8 131.6

131 94.6 68.3 126.9

166 107.7 89.5 166.3



Abundance Ion 164.00 (163.70 to 164.70): VV009685.D (-2143) (-)

Ion 129.00 (128.70 to 129.70): VV009685.D (-2143) (-)

Ion 131.00 (130.70 to 131.70): VV009685.D (-2143) (-)

Ion 166.00 (165.70 to 166.70): VV009685.D (-2143) (-)

2000

1500

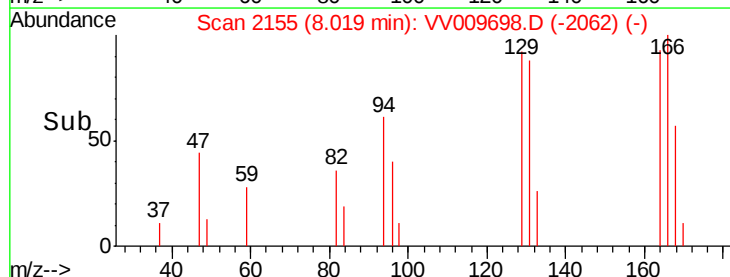
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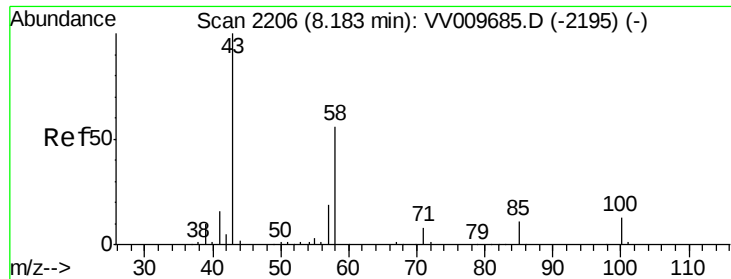
500

0

8.00 8.05

Time-->

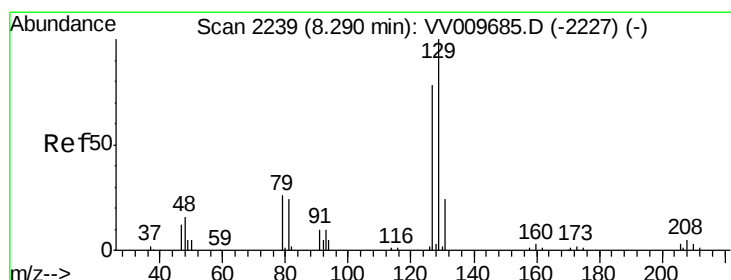
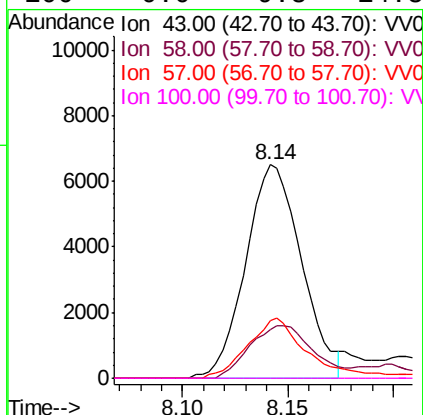
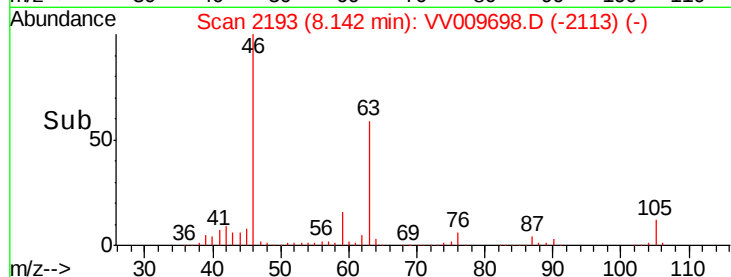
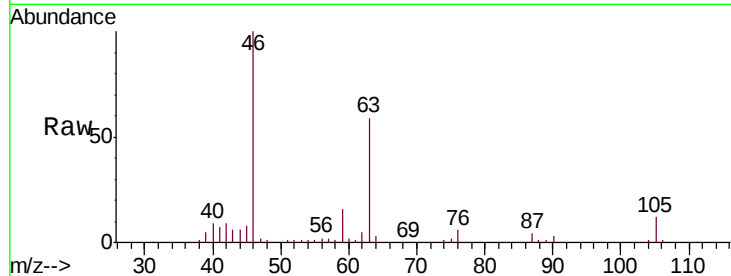




#48  
2-Hexanone  
Concen: 6.373 ug/L  
RT: 8.14 min Scan# 2193  
Delta R.T. -0.04 min  
Lab File: VV009698.D  
Acq: 15 Mar 2019 20:19

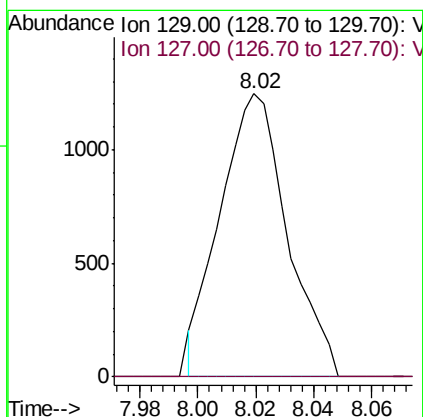
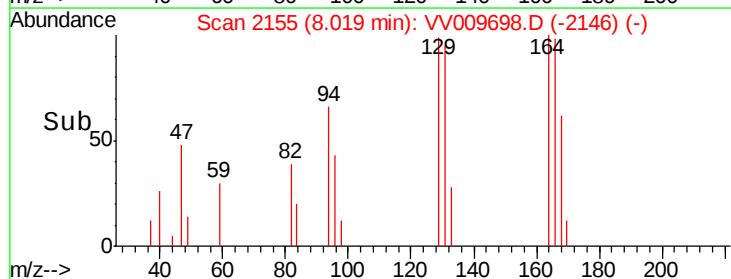
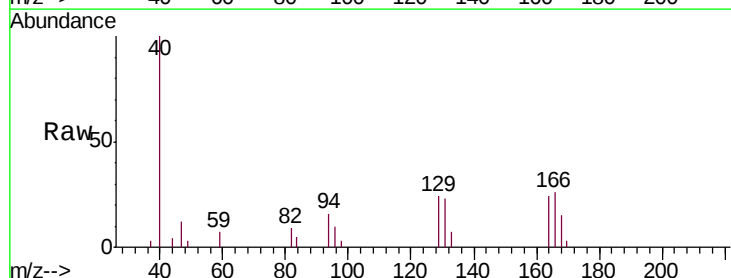
Instrument :  
MSVOA\_V  
ClientSampleId :  
BFOX8ME

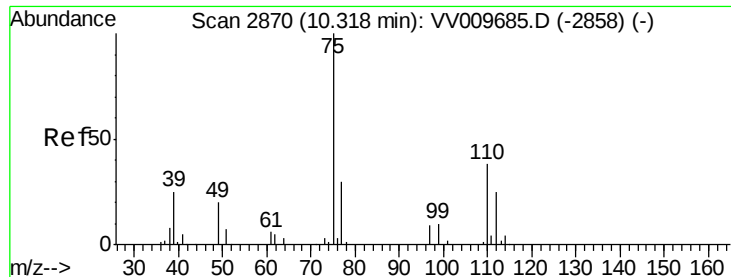
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11994 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 27.7  | 45.8  | 68.8# |
| 57       | 29.3  | 14.5  | 21.7# |
| 100      | 0.0   | 9.8   | 14.8# |



#49  
Dibromochloromethane  
Concen: 0.992 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. -0.27 min  
Lab File: VV009698.D  
Acq: 15 Mar 2019 20:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 2002  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 0.0   | 53.3  | 99.1# |





#59  
 1,2,3-Trichloropropane  
 Concen: 6.997 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.98 min  
 Lab File: VV009698.D  
 Acq: 15 Mar 2019 20:19

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFOX8ME

Tgt Ion: 75 Resp: 16670  
 Ion Ratio Lower Upper  
 75 100  
 77 40.4 26.6 40.0#

