

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
 Data File : VV018790.D  
 Acq On : 09 Oct 2020 03:24  
 Operator : SY/MD  
 Sample : L4239-18DL 5X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3S2DL

Quant Time: Oct 09 07:34:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM100820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 09 07:31:27 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 338670   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 331434   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 161547   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 131668   | 42.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.58%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 111480   | 45.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.02%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 200647   | 33.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.64%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 196241   | 103.86   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.86% |
| 24) Chloroform-d               | 4.38    | 84    | 248184   | 45.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.42%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 175358   | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.30%  |
| 32) Benzene-d6                 | 5.07    | 84    | 506116   | 47.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.90%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 165739   | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.30%  |
| 41) Toluene-d8                 | 7.34    | 98    | 446974   | 47.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.42%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 75902    | 44.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.30%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 108932   | 89.36    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.36%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 168776   | 42.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.36%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 172778   | 48.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.64%  |

## Target Compounds

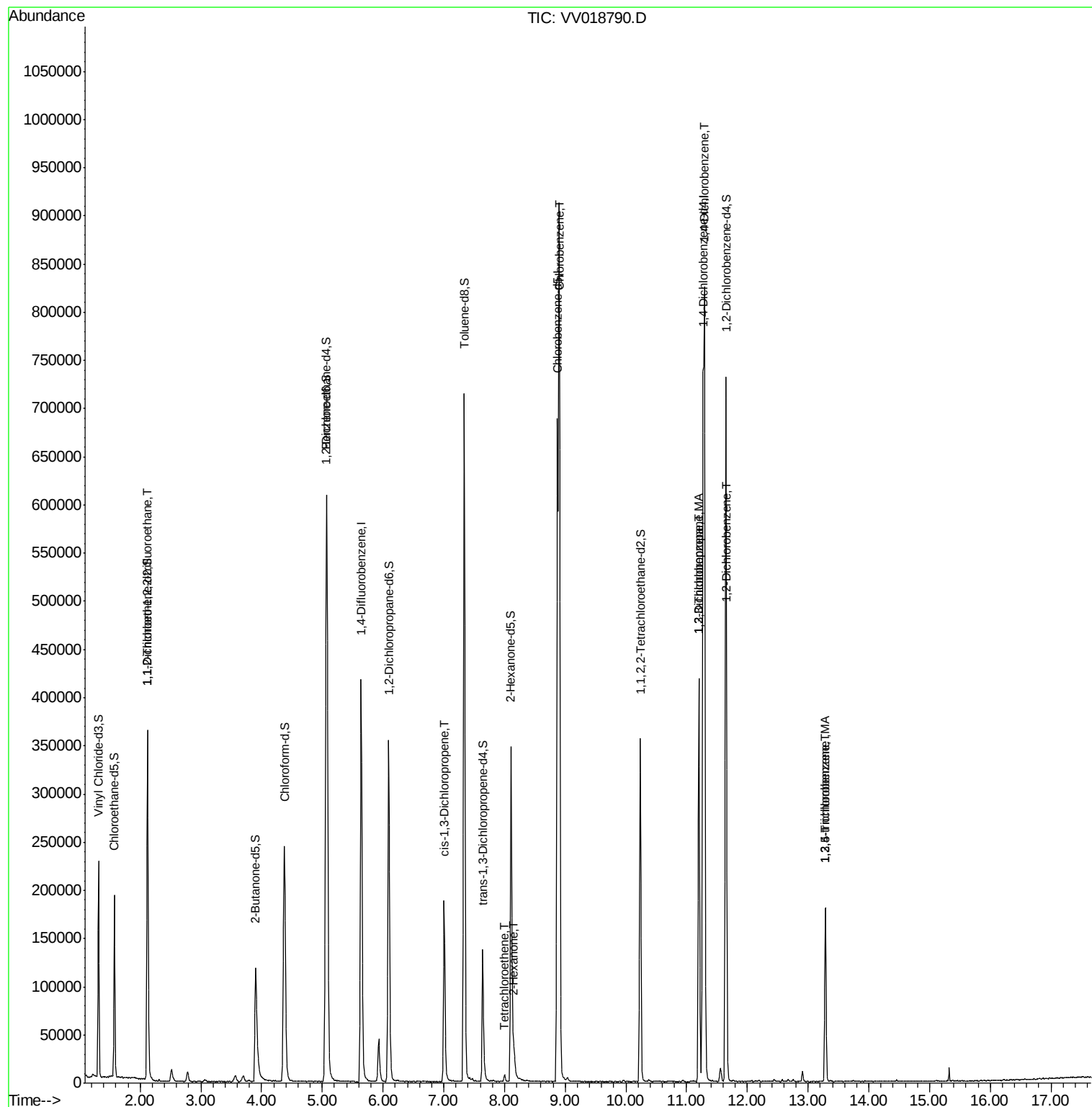
|                                |       |     |        |               | Ovalue |
|--------------------------------|-------|-----|--------|---------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 1826   | 0.750 ug/L #  | 19     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75  | 4676   | 1.146 ug/L #  | 58     |
| 46) Tetrachloroethene          | 8.00  | 164 | 1769   | 0.798 ug/L    | 88     |
| 48) 2-Hexanone                 | 8.16  | 43  | 16693  | 5.634 ug/L #  | 85     |
| 51) Chlorobenzene              | 8.90  | 112 | 442287 | 61.701 ug/L   | 99     |
| 59) 1,2,3-Trichloropropane     | 11.20 | 75  | 49841  | 14.502 ug/L # | 44     |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146 | 157948 | 29.989 ug/L   | 100    |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146 | 297873 | 54.369 ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146 | 5340   | 1.010 ug/L #  | 86     |
| 67) 1,3,5-Trichlorobenzene     | 13.29 | 180 | 52941  | 15.519 ug/L   | 98     |
| 68) 1,2,4-trichlorobenzene     | 13.29 | 180 | 52941  | 16.504 ug/L   | 98     |

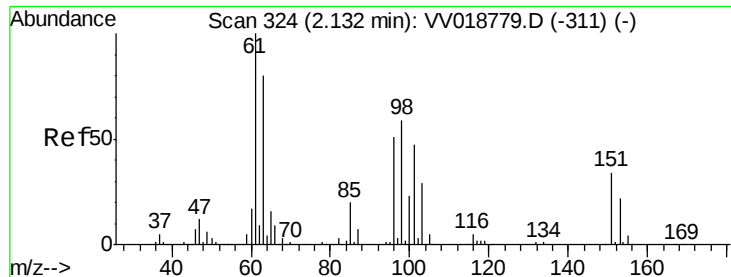
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BG3S2DL

Quant Time: Oct 09 07:34:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM100820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 09 07:31:27 2020  
Response via : Initial Calibration





#10

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

Concen: 0.750 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampleId :

BG3S2DL

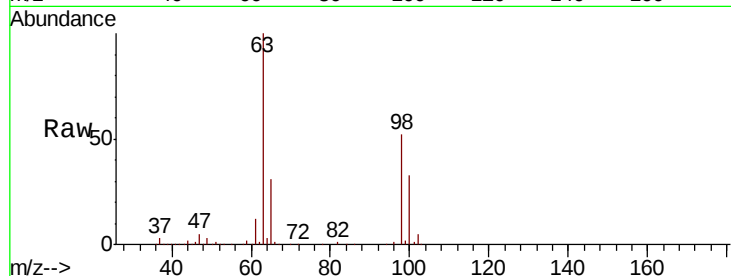
Tot Ion:101 Resp: 1826

Ion Ratio Lower Upper

101 100

85 0.0 35.9 53.9#

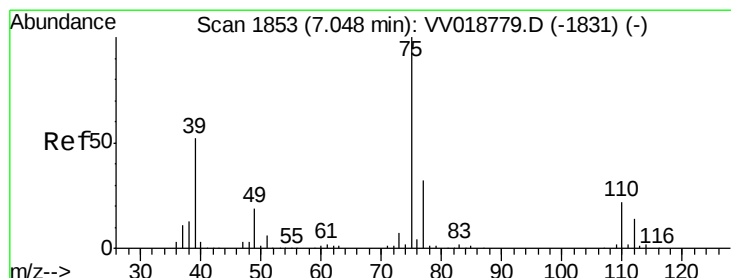
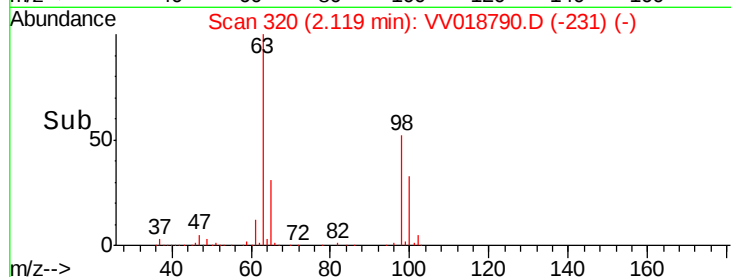
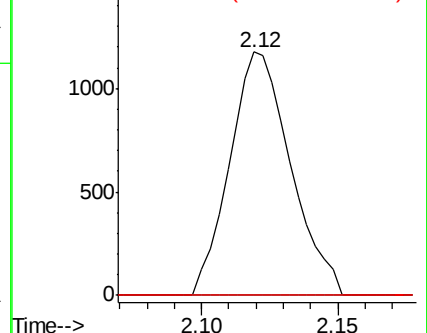
151 0.0 59.8 89.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#39

cis-1,3-Dichloropropene

Concen: 1.146 ug/L

RT: 7.01 min Scan# 1841

Delta R.T. -0.04 min

Lab File: VV018790.D

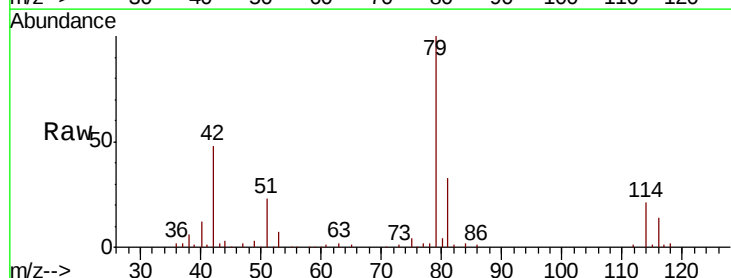
Acq: 09 Oct 2020 03:24

Tgt Ion: 75 Resp: 4676

Ion Ratio Lower Upper

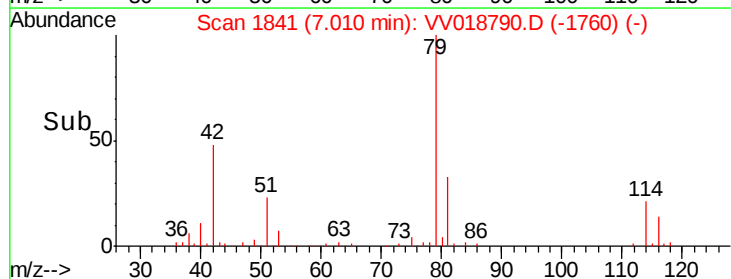
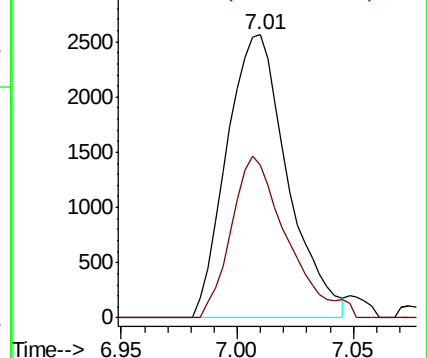
75 100

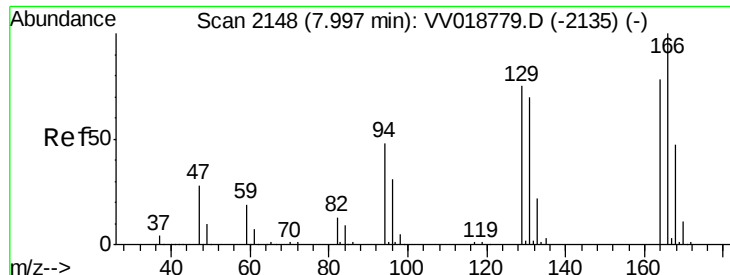
77 54.2 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#46

Tetrachloroethene

Concen: 0.798 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampleId :

BG3S2DL

Tot Ion:164 Resp: 1769

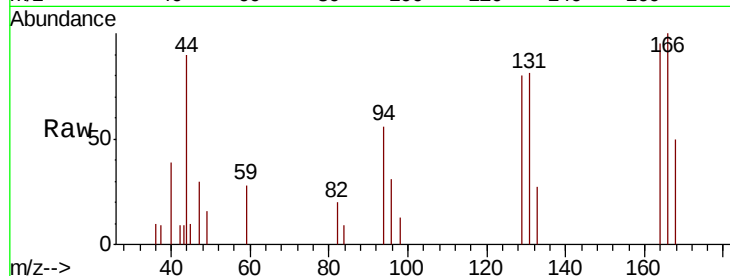
Ion Ratio Lower Upper

164 100

129 84.0 64.6 120.0

131 84.8 63.6 118.0

166 104.8 88.3 164.1

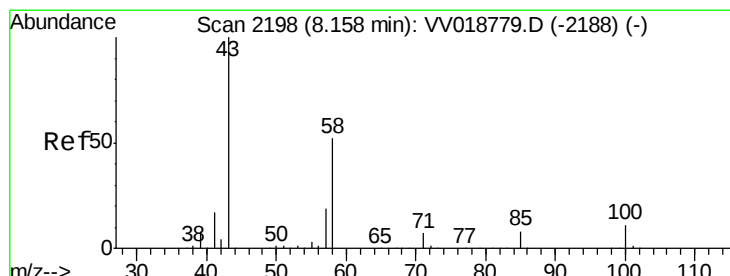
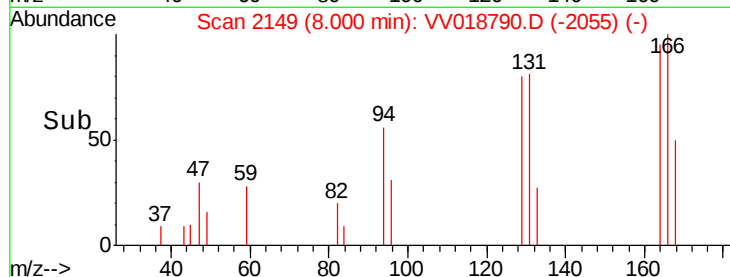
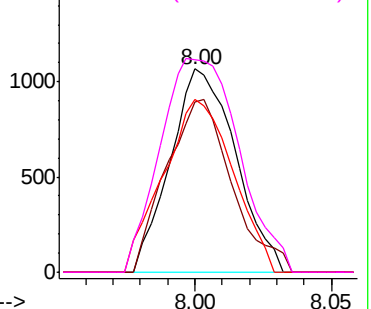


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 5.634 ug/L

RT: 8.16 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Tgt Ion: 43 Resp: 16693

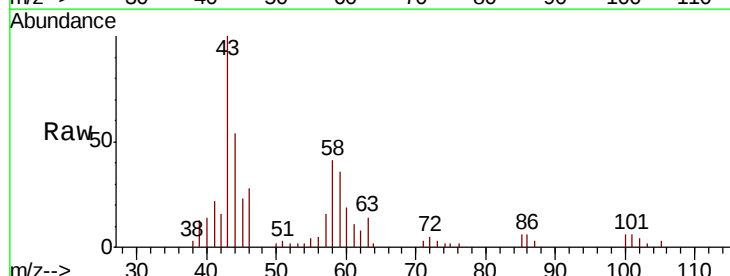
Ion Ratio Lower Upper

43 100

58 38.9 41.8 62.8#

57 15.9 14.9 22.3

100 7.3 9.2 13.8#

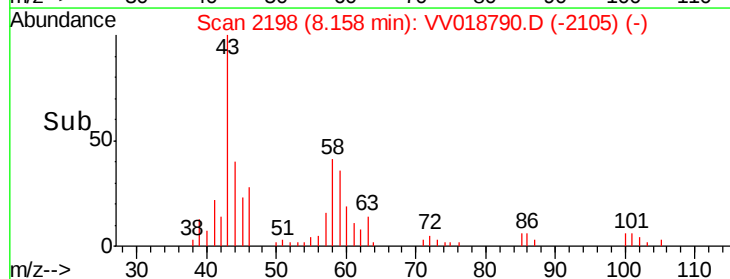
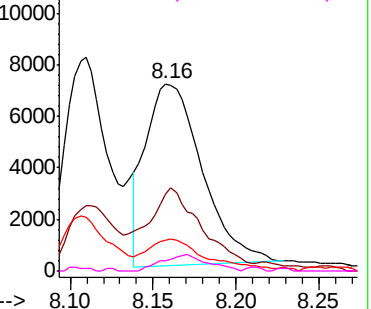


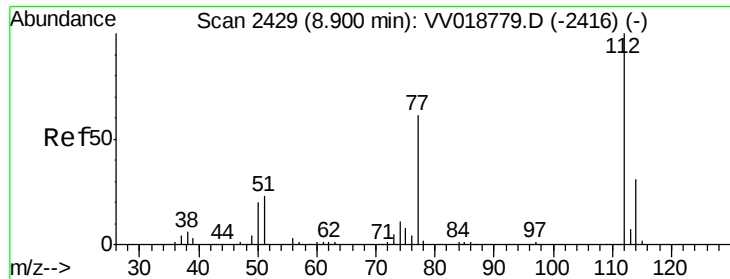
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#51

Chlorobenzene

Concen: 61.701 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampleId :

BG3S2DL

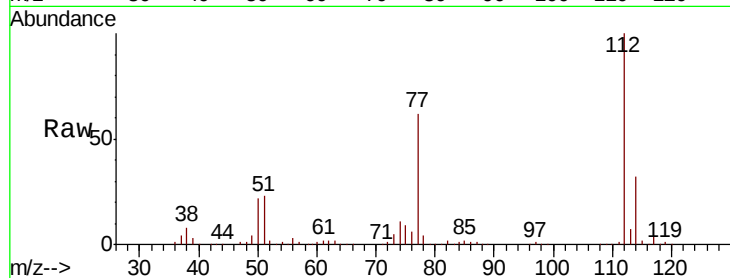
Tot Ion:112 Resp: 442287

Ion Ratio Lower Upper

112 100

114 32.1 22.0 41.0

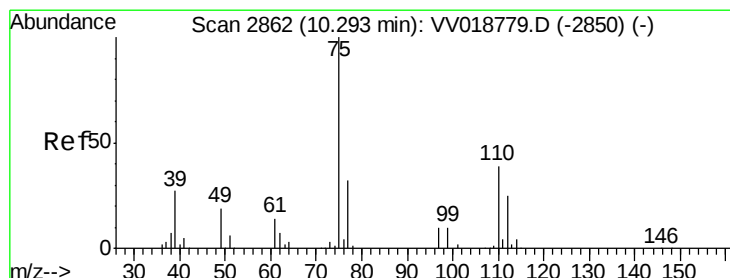
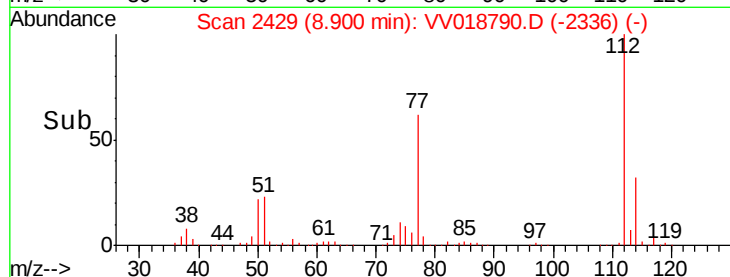
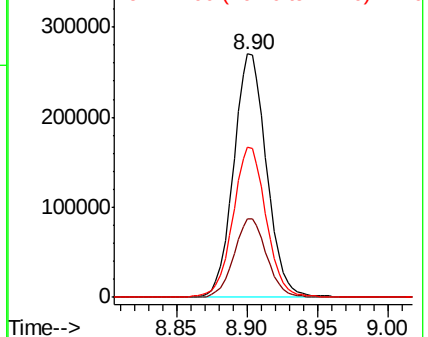
77 61.8 49.8 74.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 14.502 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.91 min

Lab File: VV018790.D

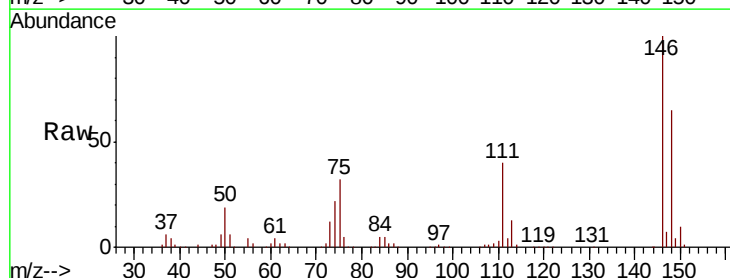
Acq: 09 Oct 2020 03:24

Tgt Ion: 75 Resp: 49841

Ion Ratio Lower Upper

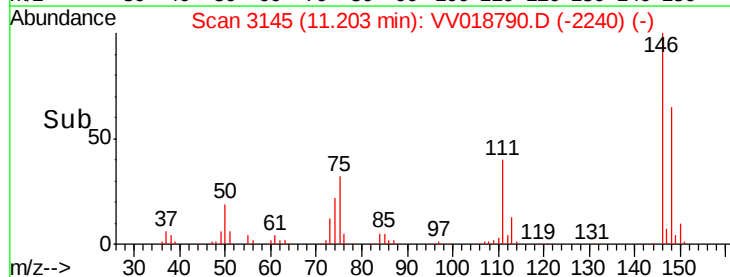
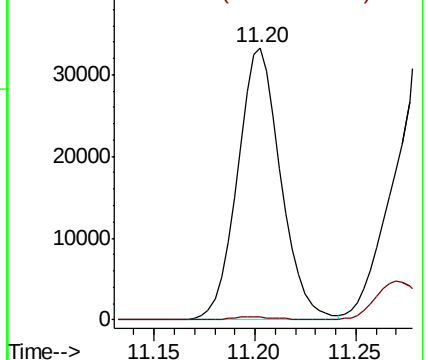
75 100

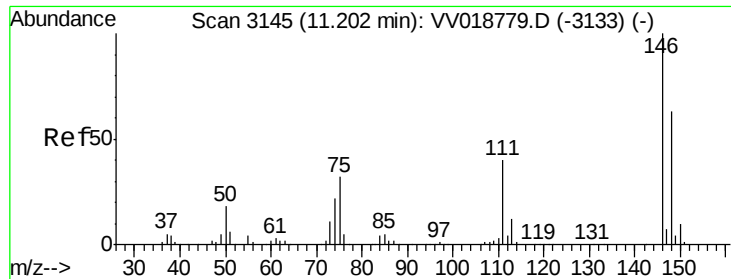
77 1.1 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#62

1,3-Dichlorobenzene

Concen: 29.989 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampled :

BG3S2DL

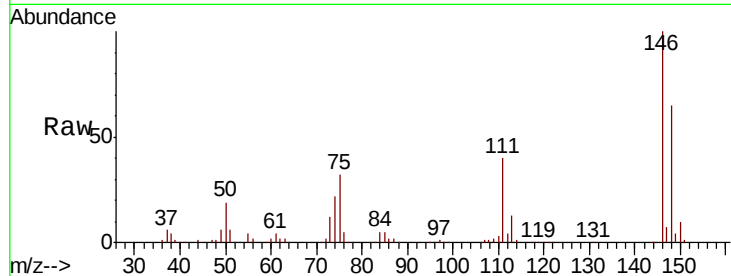
Tot Ion:146 Resp: 157948

Ion Ratio Lower Upper

146 100

111 40.1 27.8 51.6

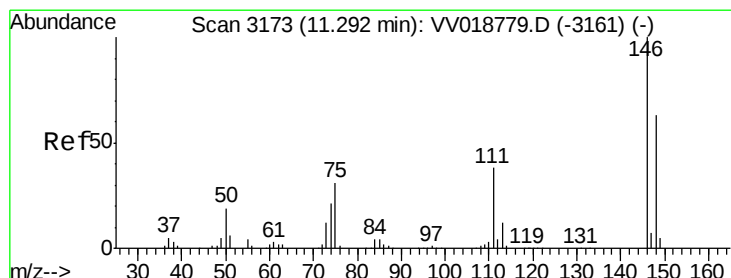
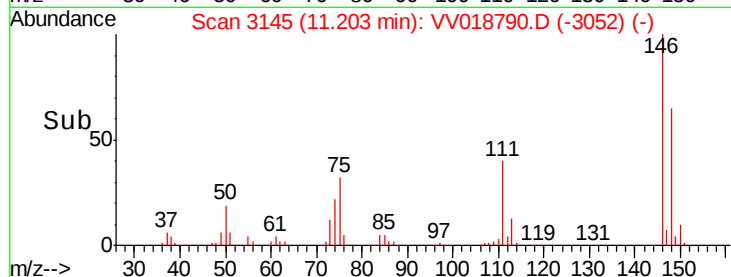
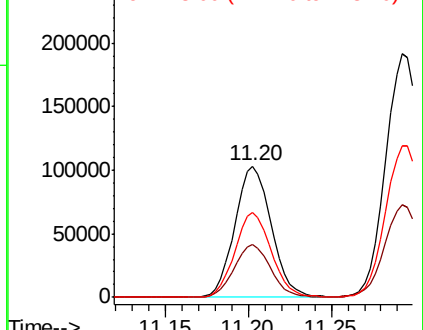
148 64.8 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 54.369 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

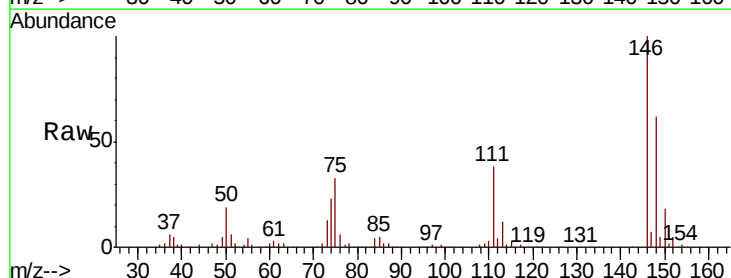
Tgt Ion:146 Resp: 297873

Ion Ratio Lower Upper

146 100

111 38.1 27.1 50.3

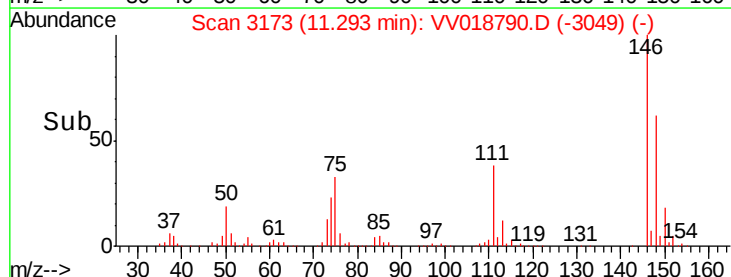
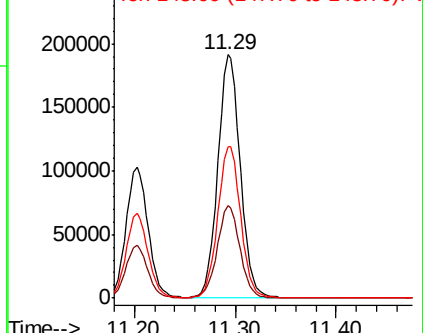
148 62.3 45.4 84.4

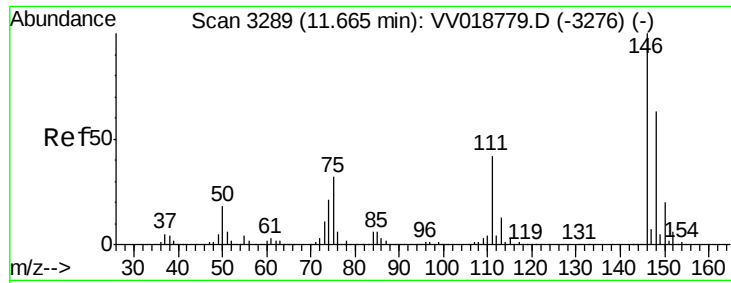


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.010 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampleId :

BG3S2DL

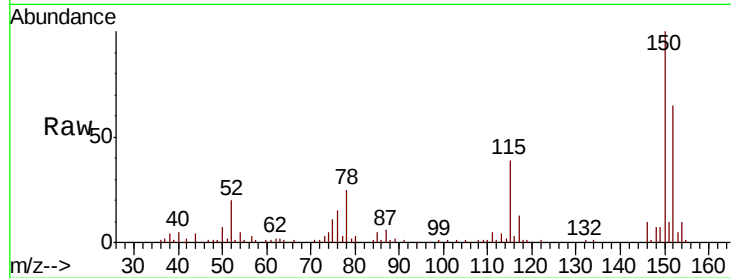
Tot Ion:146 Resp: 5340

Ion Ratio Lower Upper

146 100

111 54.4 33.8 50.6#

148 71.1 50.3 75.5

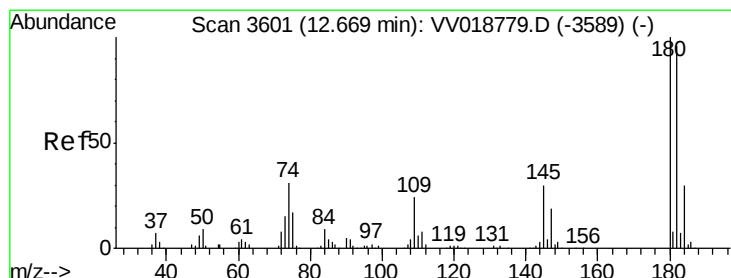
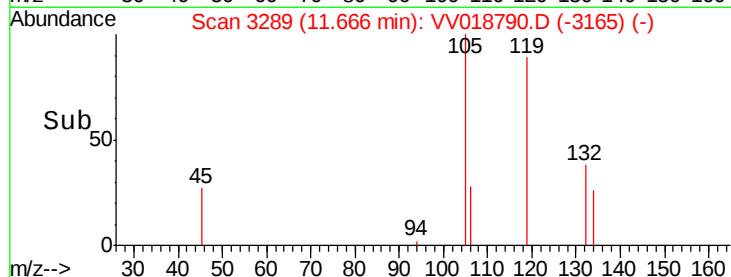
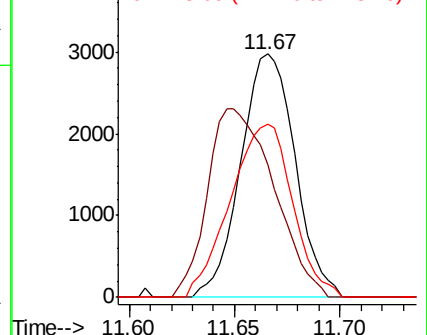


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 15.519 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.62 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Tgt Ion:180 Resp: 52941

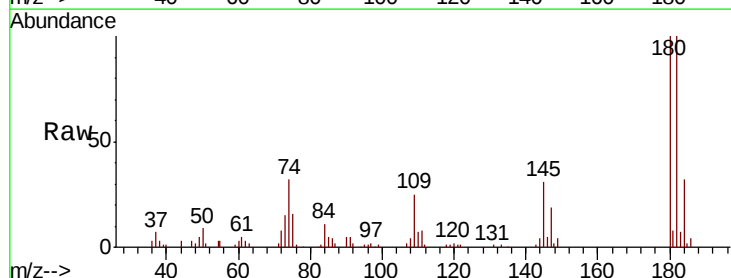
Ion Ratio Lower Upper

180 100

182 98.0 77.0 115.6

184 32.1 24.6 37.0

145 30.5 23.4 35.0



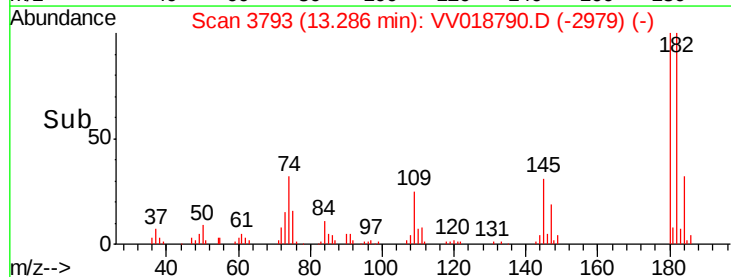
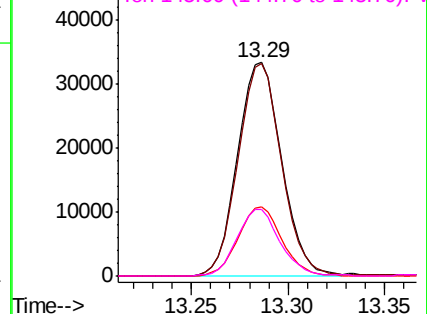
Abundance

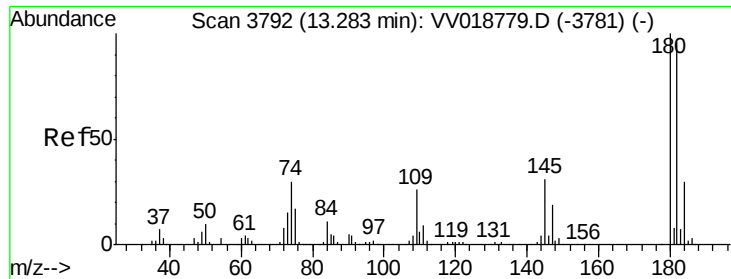
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#68

1,2,4-trichlorobenzene

Concen: 16.504 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV018790.D

Acq: 09 Oct 2020 03:24

Instrument :

MSVOA\_V

ClientSampleId :

BG3S2DL

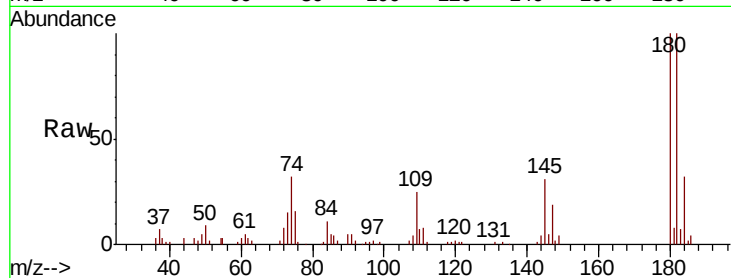
Tot Ion:180 Resp: 52941

Ion Ratio Lower Upper

180 100

182 98.0 76.7 115.1

145 30.5 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

