

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
 Data File : VV018794.D  
 Acq On : 09 Oct 2020 04:59  
 Operator : SY/MD  
 Sample : L4239-09 80X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3P2

Quant Time: Oct 09 08:48:00 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  | 332974   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 299113   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 163404   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 132370   | 43.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.50%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 113166   | 46.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 202644   | 34.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.48%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 197016   | 106.05   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.05% |
| 24) Chloroform-d               | 4.37    | 84    | 241522   | 45.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 174789   | 48.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.62%  |
| 32) Benzene-d6                 | 5.07    | 84    | 500845   | 52.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.06% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 156647   | 49.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.82%  |
| 41) Toluene-d8                 | 7.34    | 98    | 416249   | 48.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.42%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 70938    | 46.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.48%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 107004   | 97.27    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.27%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 165764   | 45.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.82%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 180897   | 50.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.04% |

## Target Compounds

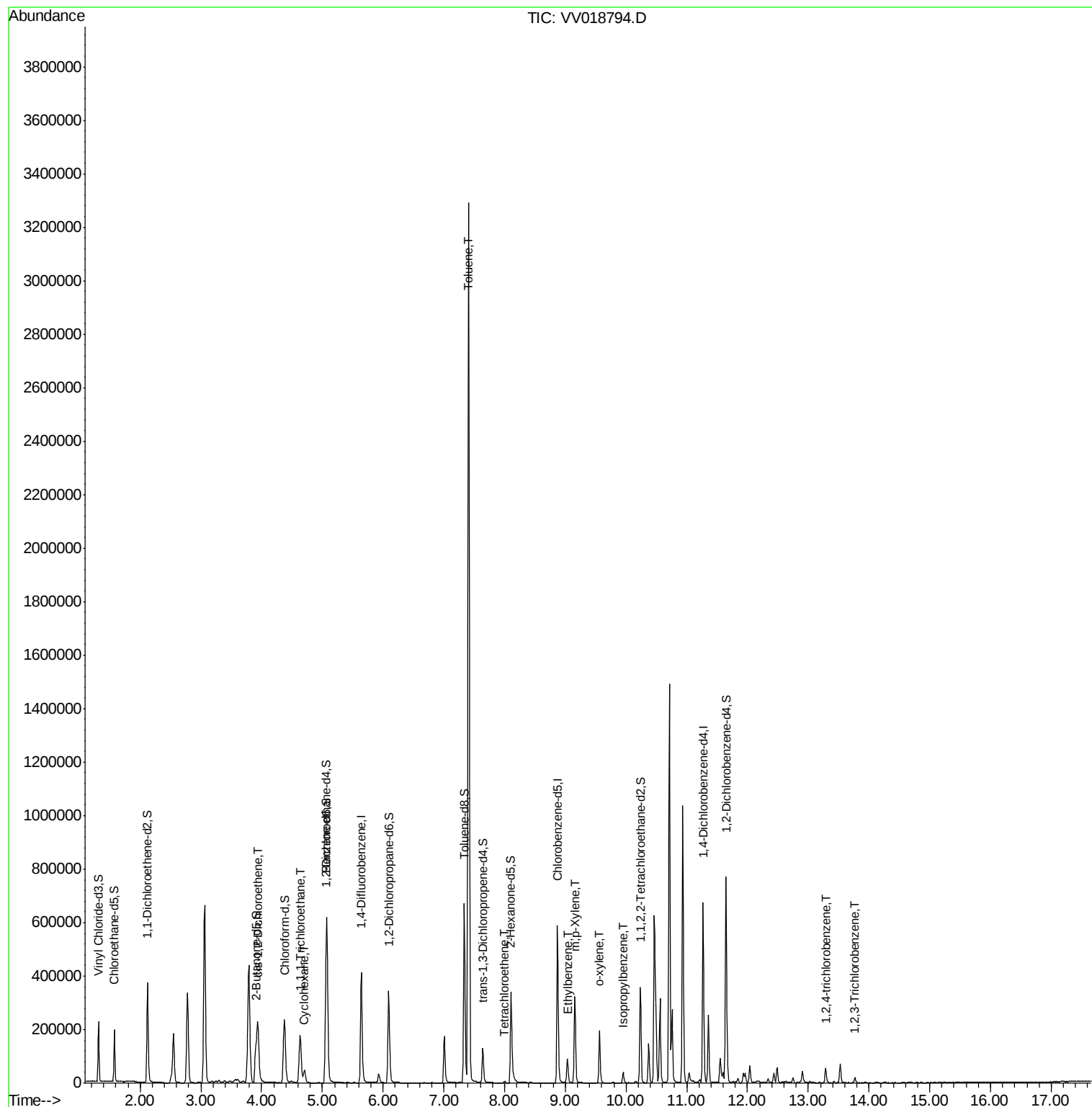
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units | Ovalue |
|----------------------------|-------|------|----------|---------|-------|--------|
| 20) cis-1,2-Dichloroethene | 3.94  | 96   | 105396   | 40.997  | ug/L  | 99     |
| 29) Cyclohexane            | 4.70  | 56   | 25774    | 7.115   | ug/L  | 99     |
| 30) 1,1,1-Trichloroethane  | 4.63  | 97   | 139850   | 35.080  | ug/L  | 99     |
| 42) Toluene                | 7.41  | 91   | 2226705  | 228.448 | ug/L  | 98     |
| 46) Tetrachloroethene      | 8.00  | 164  | 1548     | 0.773   | ug/L  | 88     |
| 52) Ethylbenzene           | 9.03  | 91   | 62385    | 5.636   | ug/L  | 97     |
| 53) m,p-Xylene             | 9.16  | 106  | 87796    | 21.609  | ug/L  | 98     |
| 54) o-xylene               | 9.56  | 106  | 47570    | 12.327  | ug/L  | 99     |
| 56) Isopropylbenzene       | 9.96  | 105  | 23983    | 2.246   | ug/L  | 99     |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180  | 14294    | 4.405   | ug/L  | 97     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180  | 5450     | 1.692   | ug/L  | 99     |

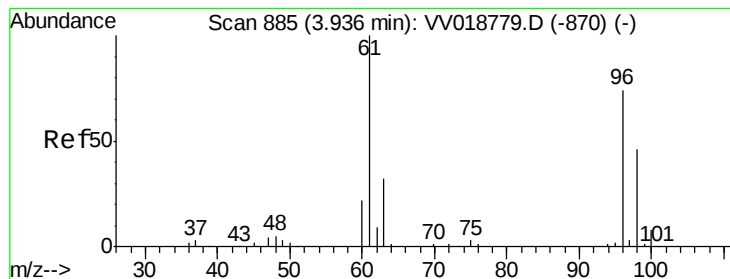
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
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Acq On : 09 Oct 2020 04:59  
Operator : SY/MD  
Sample : L4239-09 80X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3P2

Quant Time: Oct 09 08:48:00 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





#20

cis-1,2-Dichloroethene

Concen: 40.997 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

Instrument :

MSVOA\_V

ClientSampleId :

BG3P2

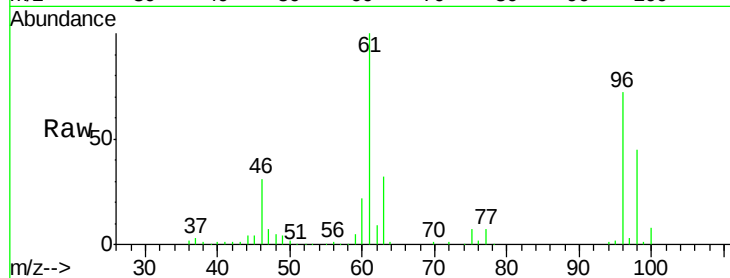
Tot Ion: 96 Resp: 105396

Ion Ratio Lower Upper

96 100

61 139.7 97.3 180.7

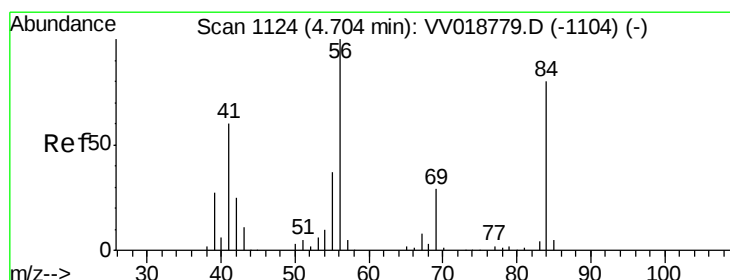
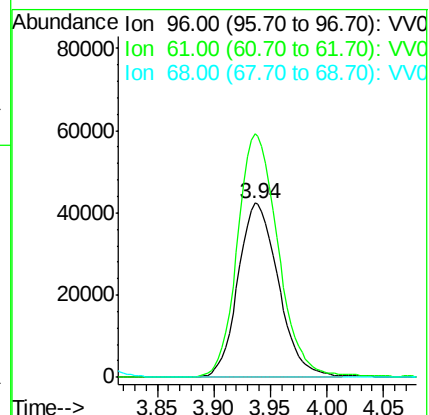
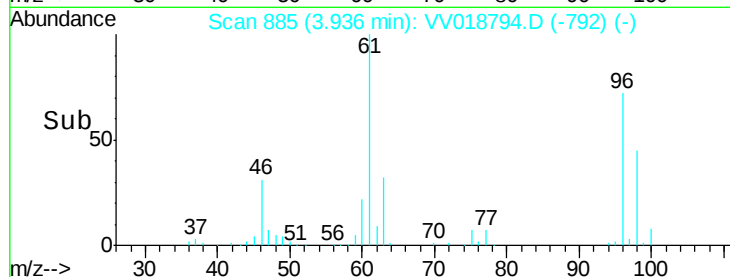
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0



#29

Cyclohexane

Concen: 7.115 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

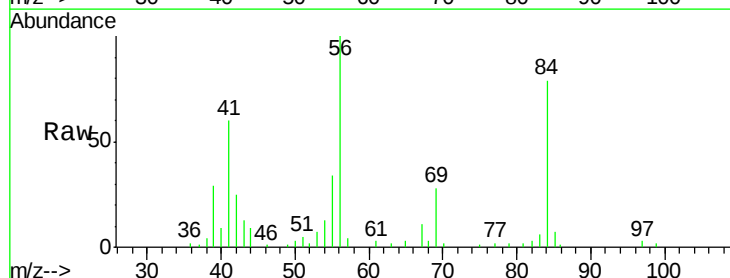
Tgt Ion: 56 Resp: 25774

Ion Ratio Lower Upper

56 100

69 28.4 23.1 34.7

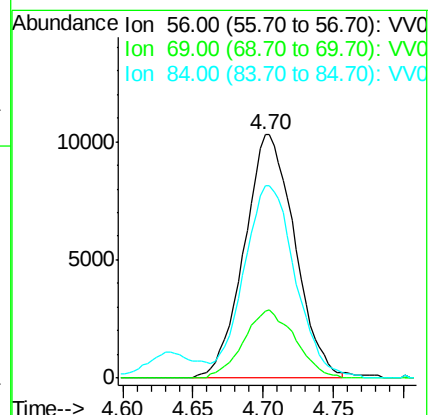
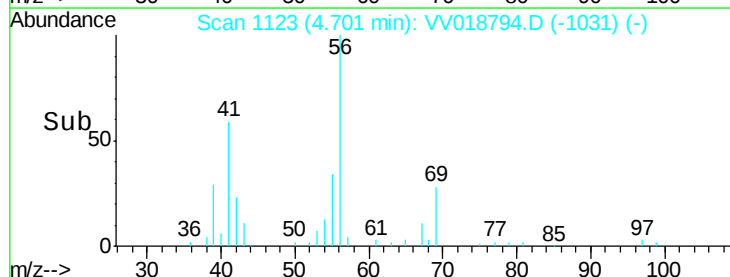
84 80.6 65.2 97.8

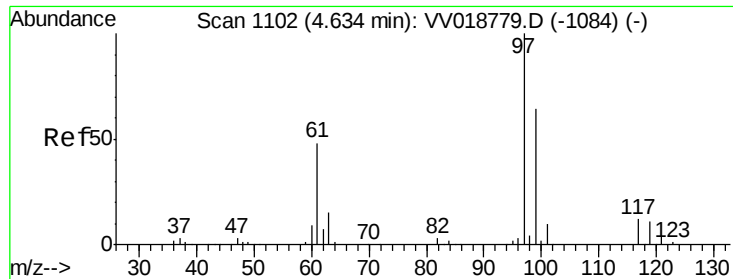


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



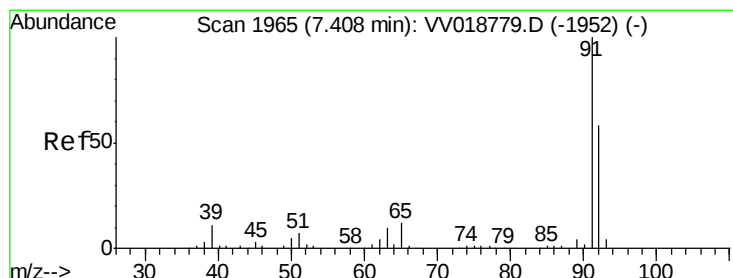
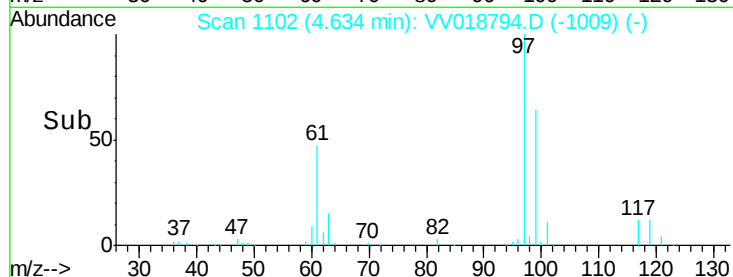
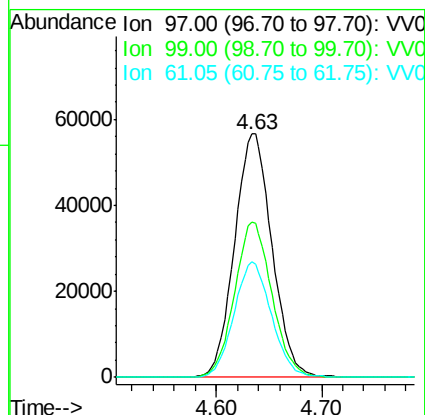
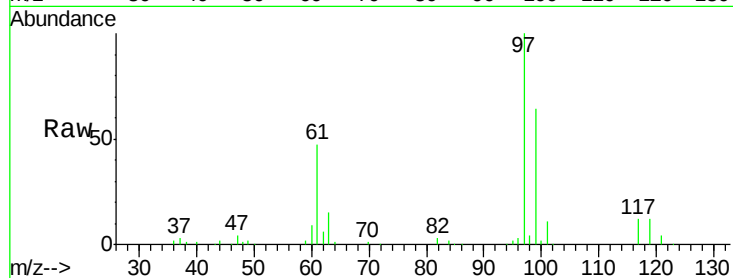


#30  
 1,1,1-Trichloroethane  
 Concen: 35.080 ug/L  
 RT: 4.63 min Scan# 1102  
 Delta R.T. 0.00 min  
 Lab File: VV018794.D  
 Acq: 09 Oct 2020 04:59

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3P2

Tot Ion: 97 Resp: 139850  

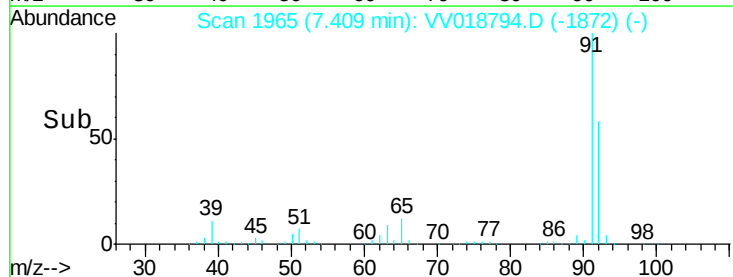
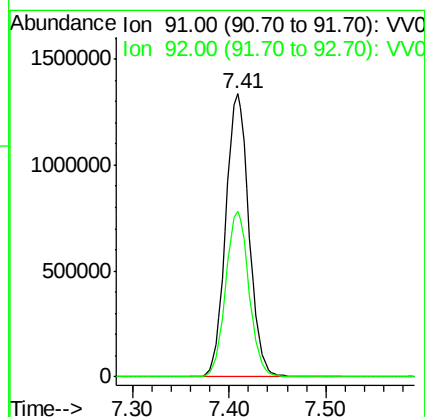
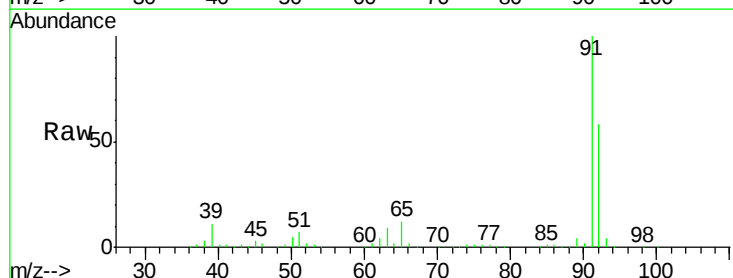
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 63.5  | 51.0  | 76.4  |
| 61  | 47.5  | 37.0  | 55.4  |

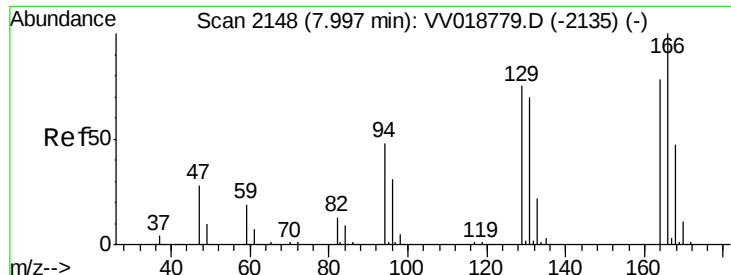


#42  
 Toluene  
 Concen: 228.448 ug/L  
 RT: 7.41 min Scan# 1965  
 Delta R.T. 0.00 min  
 Lab File: VV018794.D  
 Acq: 09 Oct 2020 04:59

Tgt Ion: 91 Resp: 2226705  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 58.4  | 39.8  | 74.0  |

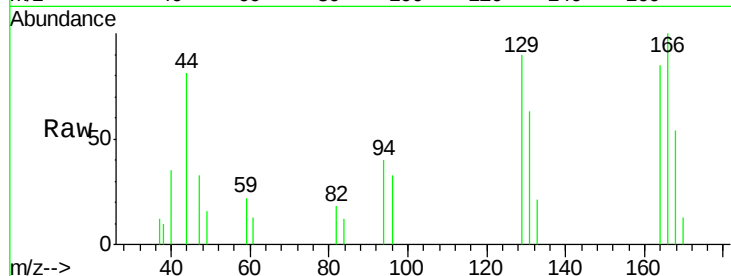




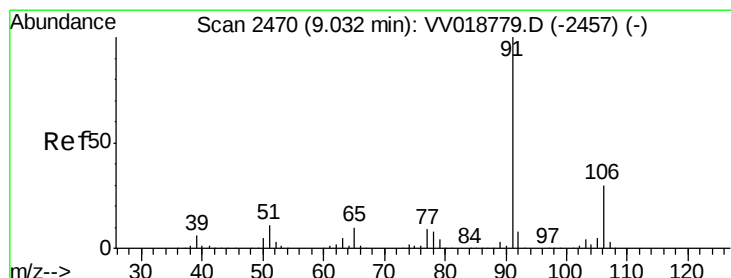
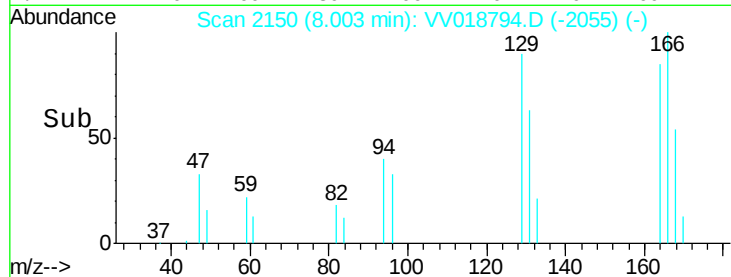
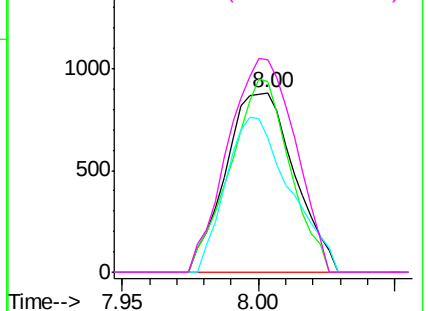
#46  
Tetrachloroethene  
Concen: 0.773 ug/L  
RT: 8.00 min Scan# 2150  
Delta R.T. 0.01 min  
Lab File: VV018794.D  
Acq: 09 Oct 2020 04:59

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3P2

Tot Ion:164 Resp: 1548  
Ion Ratio Lower Upper  
164 100  
129 106.5 64.6 120.0  
131 74.9 63.6 118.0  
166 118.1 88.3 164.1

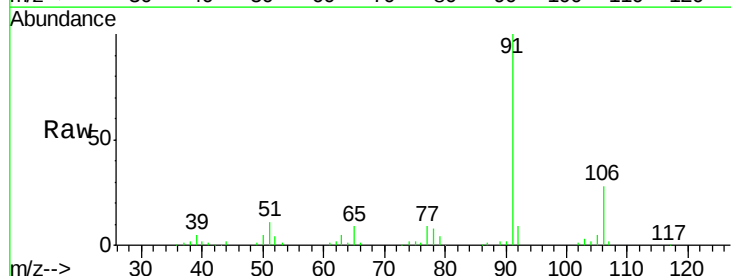


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

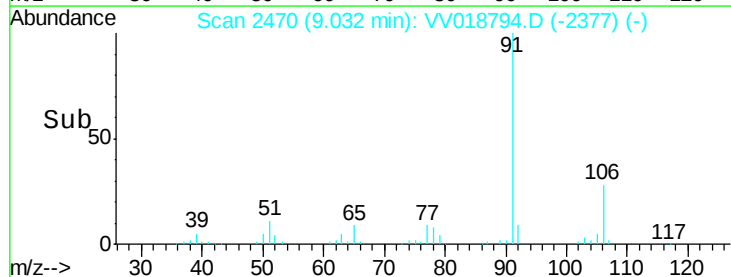
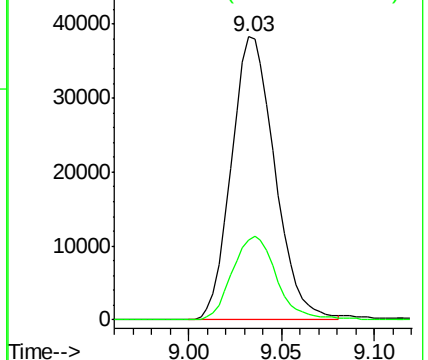


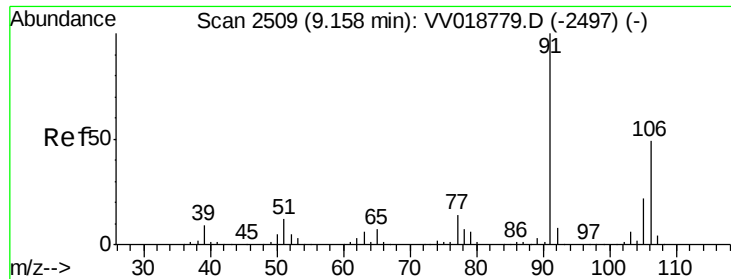
#52  
Ethylbenzene  
Concen: 5.636 ug/L  
RT: 9.03 min Scan# 2470  
Delta R.T. 0.00 min  
Lab File: VV018794.D  
Acq: 09 Oct 2020 04:59

Tgt Ion: 91 Resp: 62385  
Ion Ratio Lower Upper  
91 100  
106 28.4 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VV0  
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 21.609 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

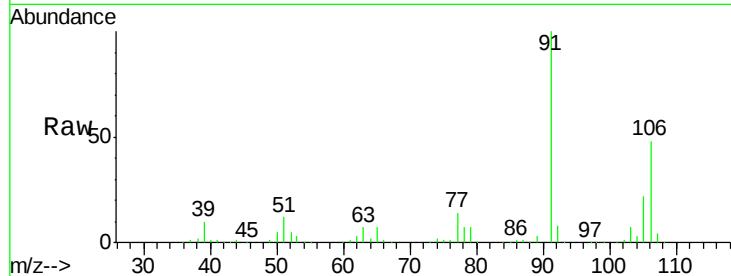
Instrument :  
MSVOA\_V  
ClientSampled :  
BG3P2

Tot Ion:106 Resp: 87796

Ion Ratio Lower Upper

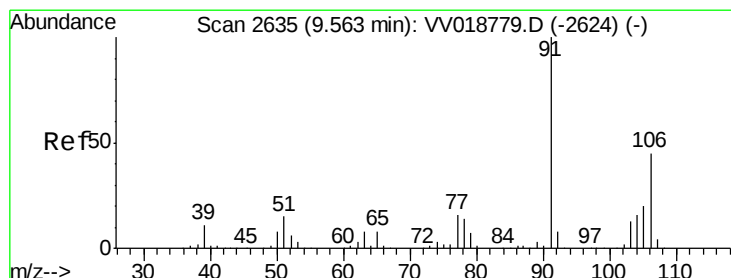
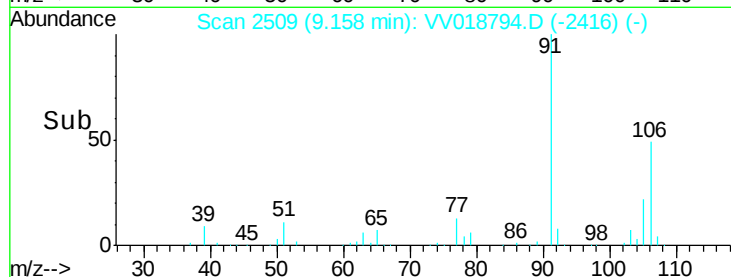
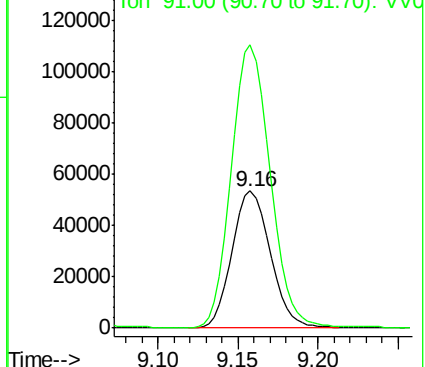
106 100

91 206.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 12.327 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV018794.D

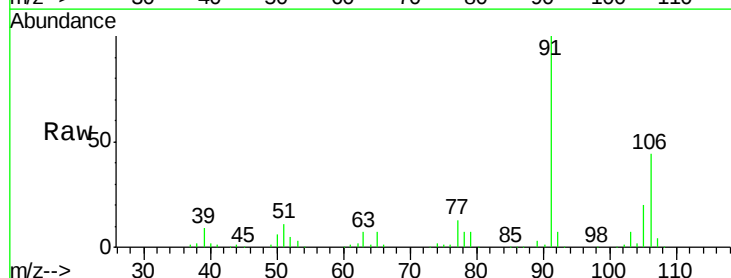
Acq: 09 Oct 2020 04:59

Tgt Ion:106 Resp: 47570

Ion Ratio Lower Upper

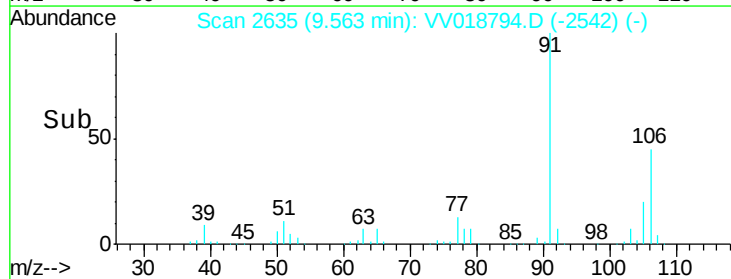
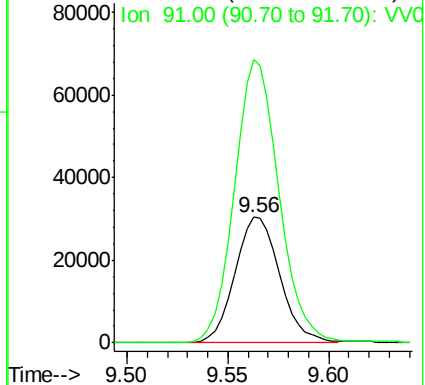
106 100

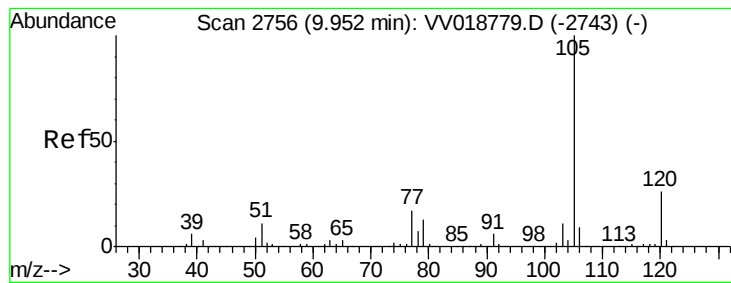
91 225.0 156.8 291.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Isopropylbenzene

Concen: 2.246 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

Instrument :

MSVOA\_V

ClientSampleId :

BG3P2

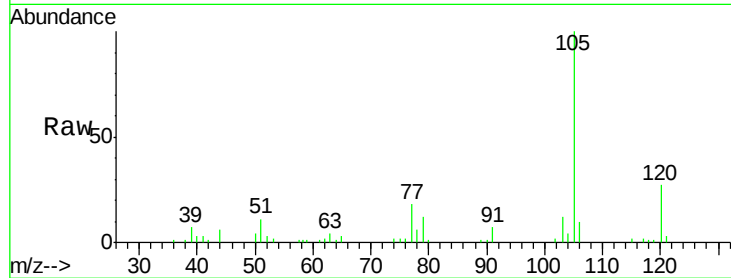
Tot Ion:105 Resp: 23983

Ion Ratio Lower Upper

105 100

120 25.8 20.4 30.6

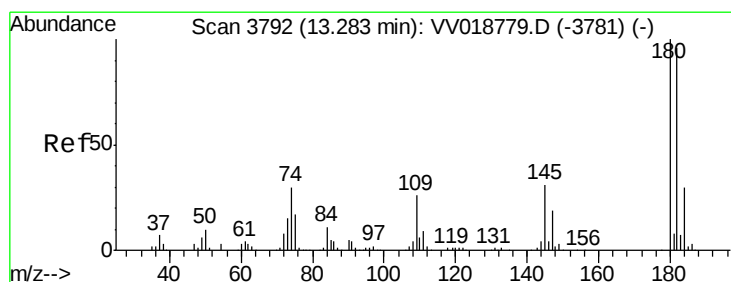
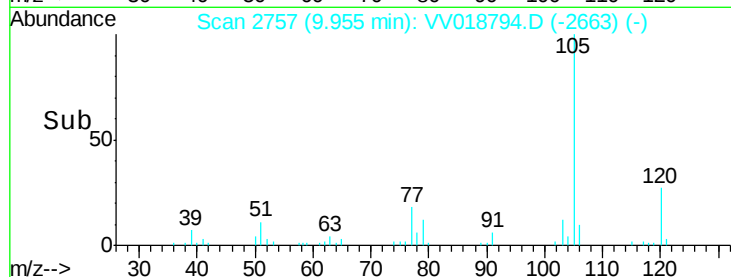
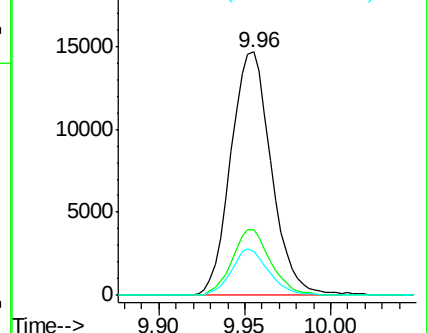
77 17.4 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#68

1,2,4-trichlorobenzene

Concen: 4.405 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

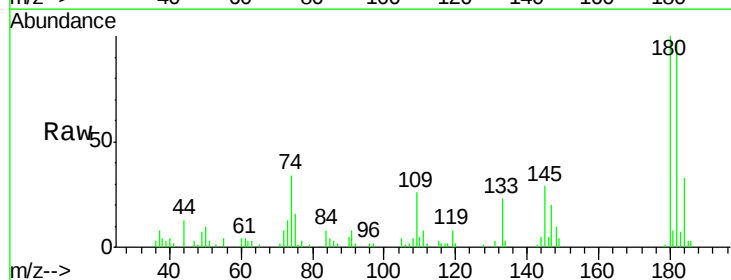
Tgt Ion:180 Resp: 14294

Ion Ratio Lower Upper

180 100

182 92.8 76.7 115.1

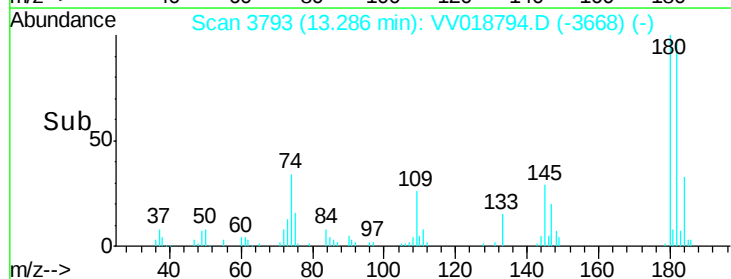
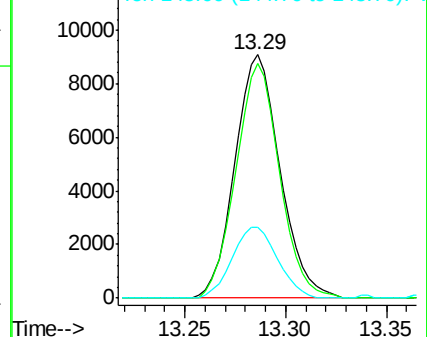
145 29.2 24.0 36.0

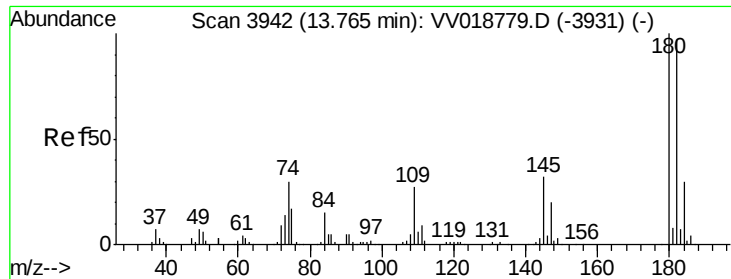


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 1.692 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV018794.D

Acq: 09 Oct 2020 04:59

Instrument :

MSVOA\_V

ClientSampleId :

BG3P2

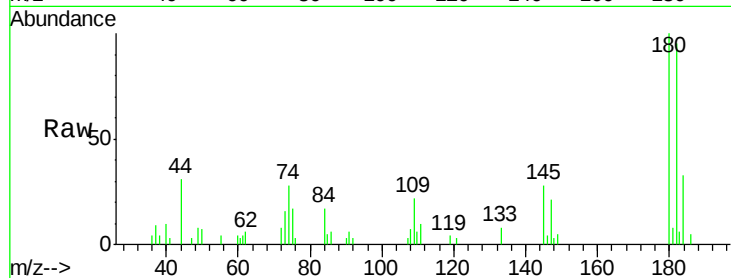
Tot Ion:180 Resp: 5450

Ion Ratio Lower Upper

180 100

182 95.1 75.9 113.9

145 30.5 25.2 37.8



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

