

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092920\  
 Data File : VV018521.D  
 Acq On : 29 Sep 2020 17:06  
 Operator : SY/MD  
 Sample : L4109-19ME  
 Misc : 6.45µ/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3Z0ME

Manual Integrations  
 APPROVED

MMDadoda  
 10/2/2020 11:57:40 AM

Quant Time: Sep 30 03:35:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 30 01:47:57 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 397140   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 388445   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.28 | 152  | 207574   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 98079    | 42.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.22% |
| 7) Chloroethane-d5             | 1.58    | 69    | 72760    | 37.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.56% |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 143549   | 30.25    | ug/L | -0.02  |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.50% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 133925   | 77.09    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 77.09% |
| 24) Chloroform-d               | 4.37    | 84    | 214959   | 42.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.36% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 148613   | 46.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.96% |
| 32) Benzene-d6                 | 5.07    | 84    | 448339   | 45.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.14% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 138760   | 46.67    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.34% |
| 41) Toluene-d8                 | 7.34    | 98    | 428216   | 46.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.52% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 72950    | 45.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.84% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 102801   | 91.04    | ug/L | 0.03   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 171677   | 43.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.12% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 190825   | 47.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.60% |

## Target Compounds

|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 29) Cyclohexane            | 4.69  | 56  | 20290  | 4.580 ug/L   | 89     |
| 35) Methylcyclohexane      | 6.15  | 83  | 5817m  | 1.302 ug/L   |        |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146 | 4687   | 0.698 ug/L # | 85     |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146 | 15938  | 2.304 ug/L   | 87     |
| 68) 1,2,4-trichlorobenzene | 13.29 | 180 | 193312 | 44.644 ug/L  | 98     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180 | 41256  | 9.491 ug/L # | 96     |

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

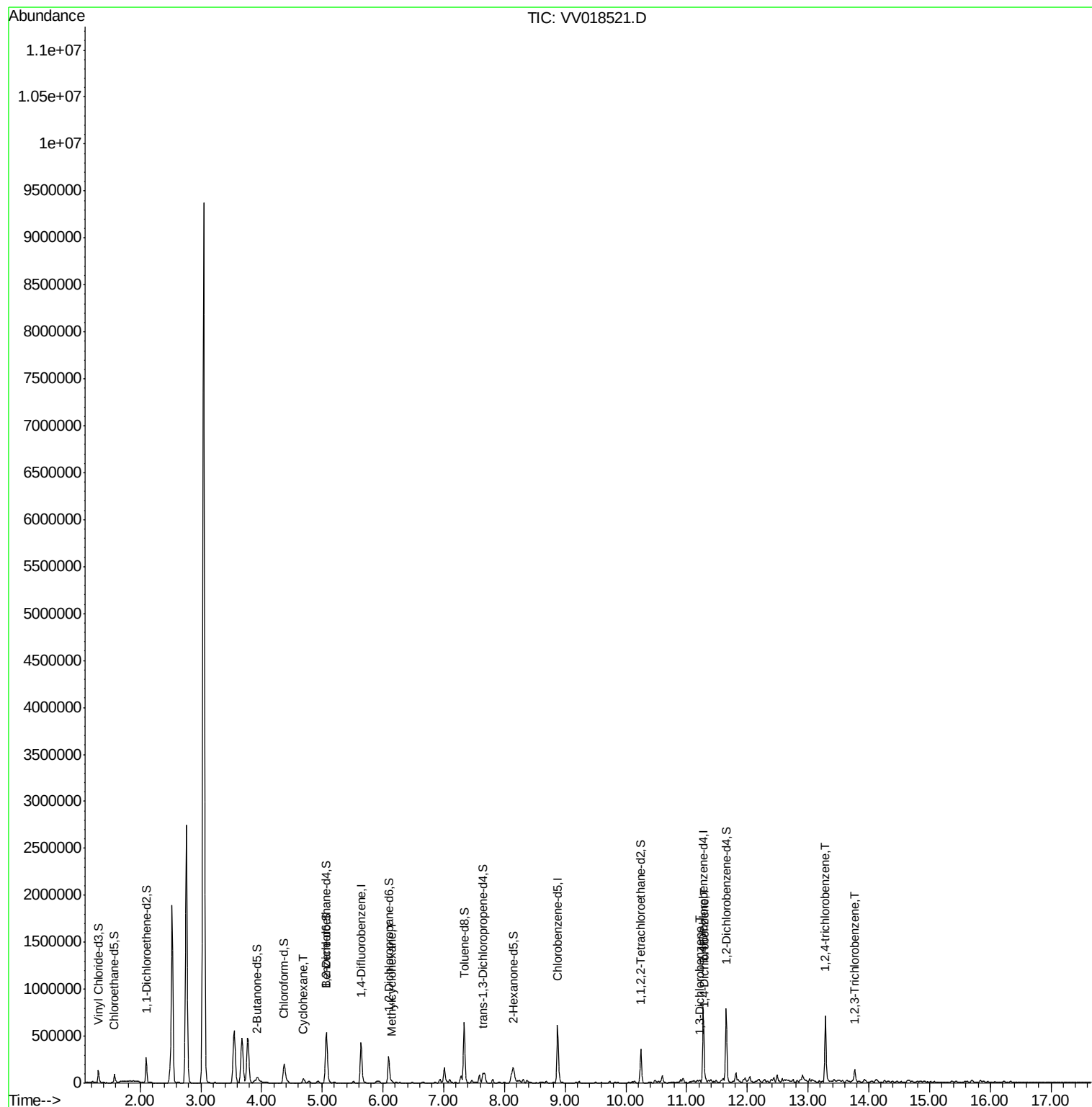
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV092920\  
Data File : VV018521.D  
Acq On : 29 Sep 2020 17:06  
Operator : SY/MD  
Sample : L4109-19ME  
Misc : 6.45µ/5.0mL/100µL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 16 Sample Multiplier: 1

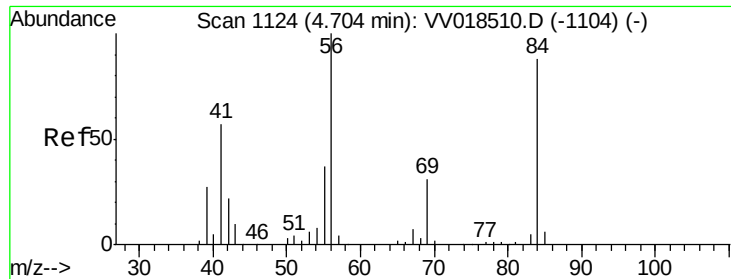
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3Z0ME

Manual Integrations  
APPROVED

MMDadoda  
10/2/2020 11:57:40 AM

Quant Time: Sep 30 03:35:31 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Sep 30 01:47:57 2020  
Response via : Initial Calibration





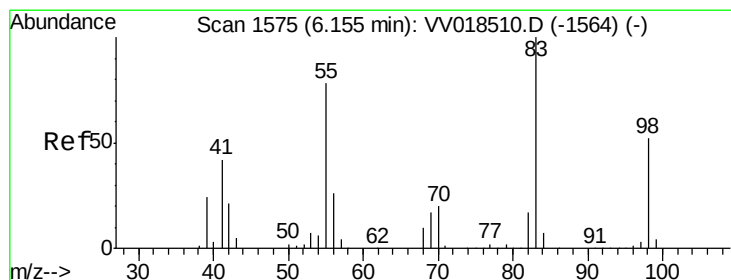
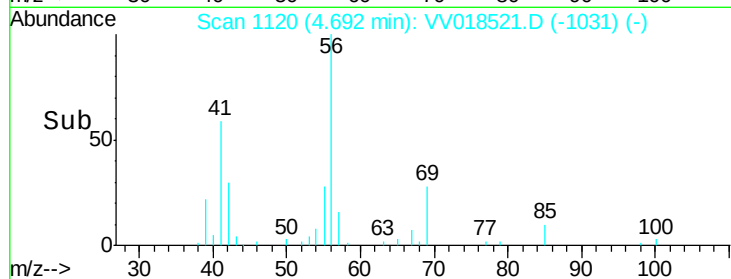
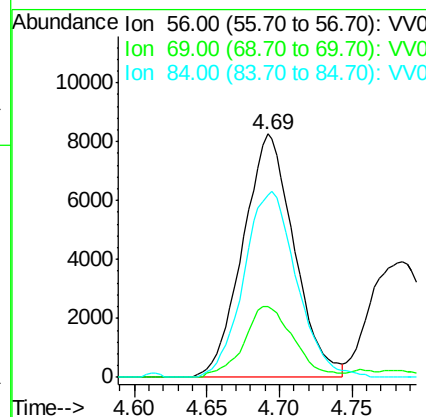
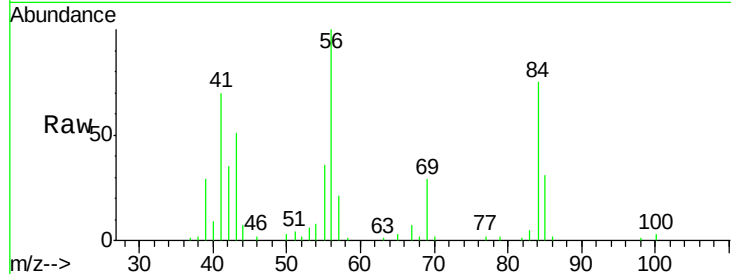
#29  
Cyclohexane  
Concen: 4.580 ug/L  
RT: 4.69 min Scan# 1120  
Delta R.T. -0.01 min  
Lab File: VV018521.D  
Acq: 29 Sep 2020 17:06

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3Z0ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 28.5  | 24.8  | 37.2  |
| 84      | 78.2  | 72.2  | 108.4 |

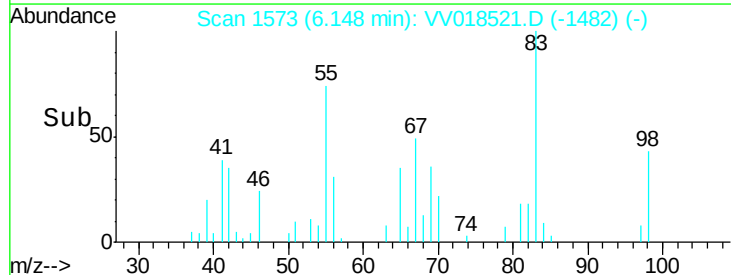
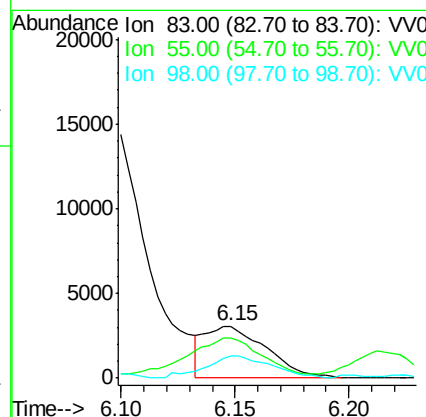
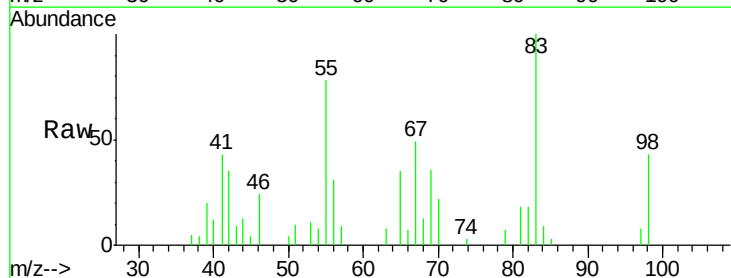
Manual Integrations  
APPROVED

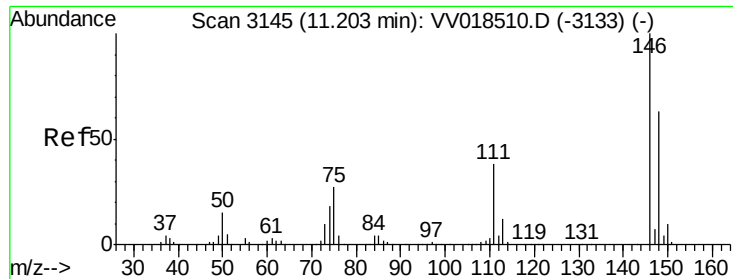
MMDadoda  
10/2/2020 11:57:40 AM



#35  
Methylcyclohexane  
Concen: 1.302 ug/L m  
RT: 6.15 min Scan# 1573  
Delta R.T. -0.01 min  
Lab File: VV018521.D  
Acq: 29 Sep 2020 17:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 0.7   | 60.1  | 90.1# |
| 98      | 8.9   | 40.2  | 60.4# |





#62

1,3-Dichlorobenzene

Concen: 0.698 ug/L

RT: 11.21 min Scan# 3148

Delta R.T. 0.01 min

Lab File: VV018521.D

Acq: 29 Sep 2020 17:06

Instrument :

MSVOA\_V

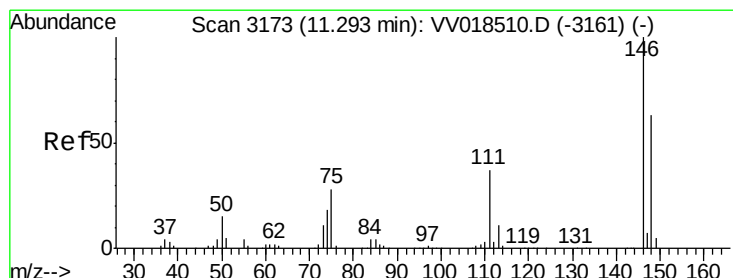
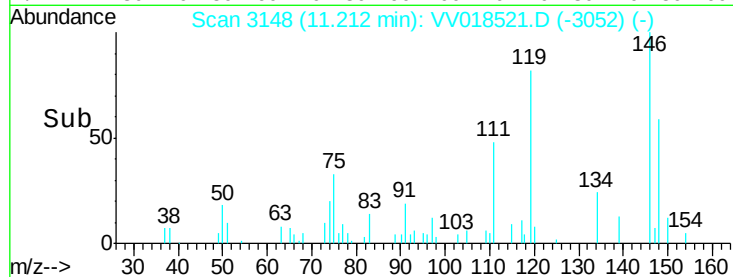
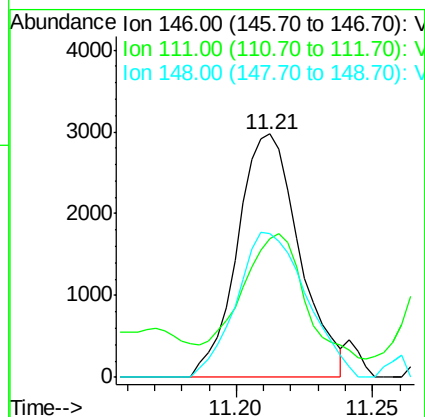
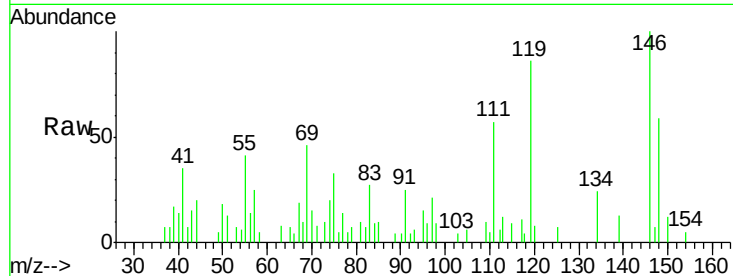
ClientSampleId :

BG3Z0ME

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 4687  |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 57.1  | 26.8  | 49.8# |
| 148       | 59.1  | 44.0  | 81.8  |

Manual Integrations  
APPROVED

MMDadoda  
10/2/2020 11:57:40 AM



#63

1,4-Dichlorobenzene

Concen: 2.304 ug/L

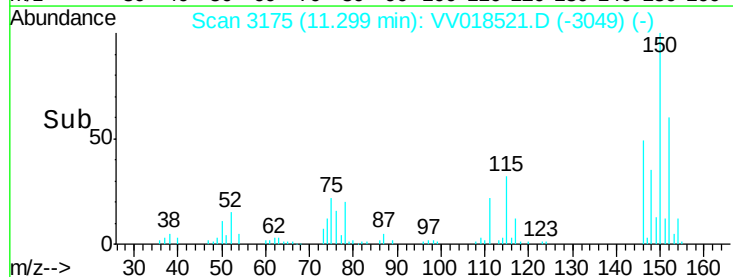
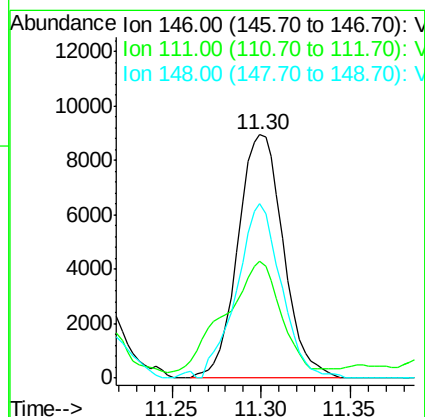
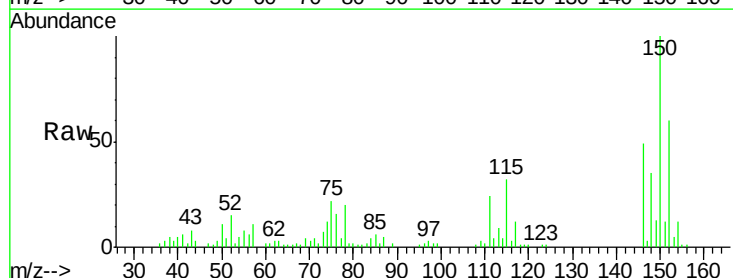
RT: 11.30 min Scan# 3175

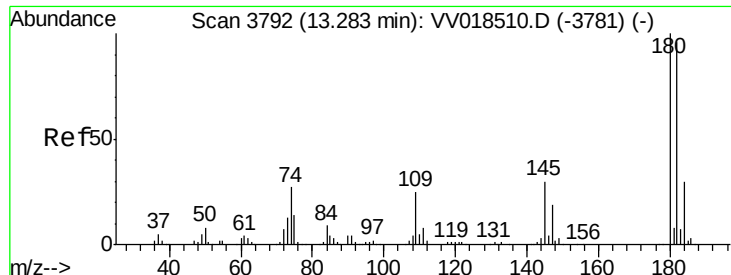
Delta R.T. 0.01 min

Lab File: VV018521.D

Acq: 29 Sep 2020 17:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 15938 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 48.2  | 26.2  | 48.6  |
| 148       | 71.6  | 44.4  | 82.5  |





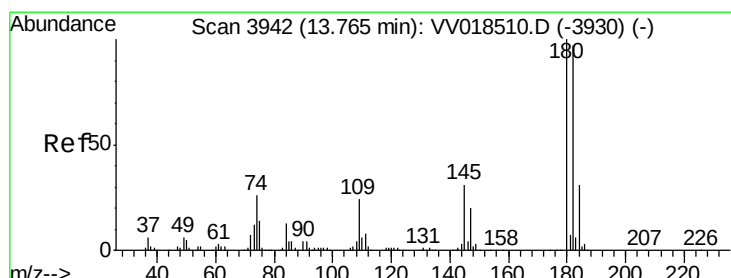
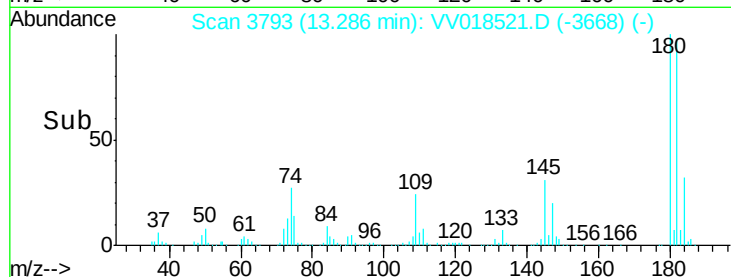
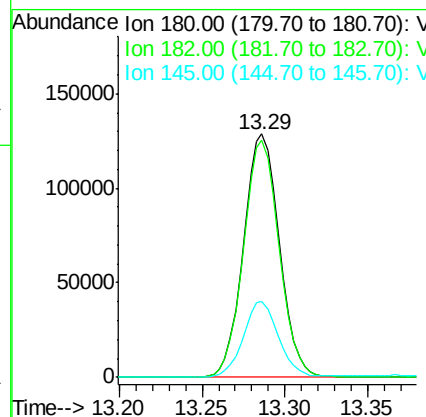
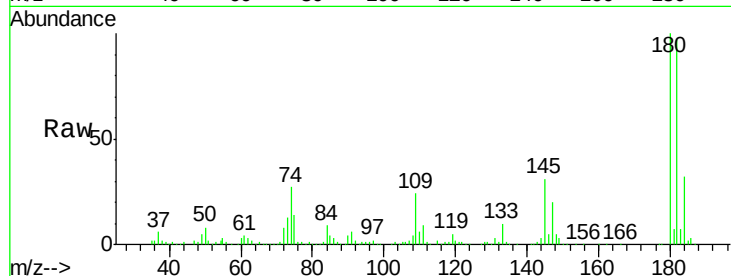
#68  
 1,2,4-trichlorobenzene  
 Concen: 44.644 ug/L  
 RT: 13.29 min Scan# 3793  
 Delta R.T. 0.00 min  
 Lab File: VV018521.D  
 Acq: 29 Sep 2020 17:06

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3Z0ME

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 193312 |       |       |
| 182     | 97.0  | 76.3   | 114.5 |       |
| 145     | 30.3  | 23.6   | 35.4  |       |

Manual Integrations  
 APPROVED

MMDadoda  
 10/2/2020 11:57:40 AM



#70  
 1,2,3-Trichlorobenzene  
 Concen: 9.491 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV018521.D  
 Acq: 29 Sep 2020 17:06

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 41256 |       |       |
| 182     | 97.3  | 77.1  | 115.7 |       |
| 145     | 39.6  | 25.1  | 37.7# |       |

