

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031720\  
 Data File : VV015009.D  
 Acq On : 18 Mar 2020 06:00  
 Operator : SY/MD  
 Sample : L1941-10  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DC0

Manual Integrations  
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Quant Time: Mar 18 08:56:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 18 07:43:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 304602   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 299110   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 155951   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 75513    | 37.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 74.42% |
| 7) Chloroethane-d5             | 1.58    | 69    | 62913    | 41.74    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.48% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 97811    | 31.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.84% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 105343   | 85.14    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.14% |
| 24) Chloroform-d               | 4.38    | 84    | 195292   | 46.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.38% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 125968   | 47.03    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.06% |
| 32) Benzene-d6                 | 5.08    | 84    | 384227   | 46.63    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.26% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 115188   | 46.94    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.88% |
| 41) Toluene-d8                 | 7.34    | 98    | 372702   | 45.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.46% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 49221    | 37.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.46% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 99394    | 89.74    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 167756   | 46.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 167798   | 49.12    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.24% |

## Target Compounds

|                            |       |     |        |        | Ovalue  |
|----------------------------|-------|-----|--------|--------|---------|
| 51) Chlorobenzene          | 8.90  | 112 | 177458 | 28.138 | ug/L 99 |
| 62) 1,3-Dichlorobenzene    | 11.20 | 146 | 267633 | 52.077 | ug/L 99 |
| 63) 1,4-Dichlorobenzene    | 11.29 | 146 | 510610 | 98.633 | ug/L 98 |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146 | 45957  | 8.952  | ug/L 95 |
| 67) 1,3,5-Trichlorobenzene | 12.67 | 180 | 4986m  | 1.237  | ug/L    |
| 68) 1,2,4-trichlorobenzene | 13.28 | 180 | 227383 | 63.314 | ug/L 99 |
| 70) 1,2,3-Trichlorobenzene | 13.76 | 180 | 32319  | 9.091  | ug/L 98 |

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

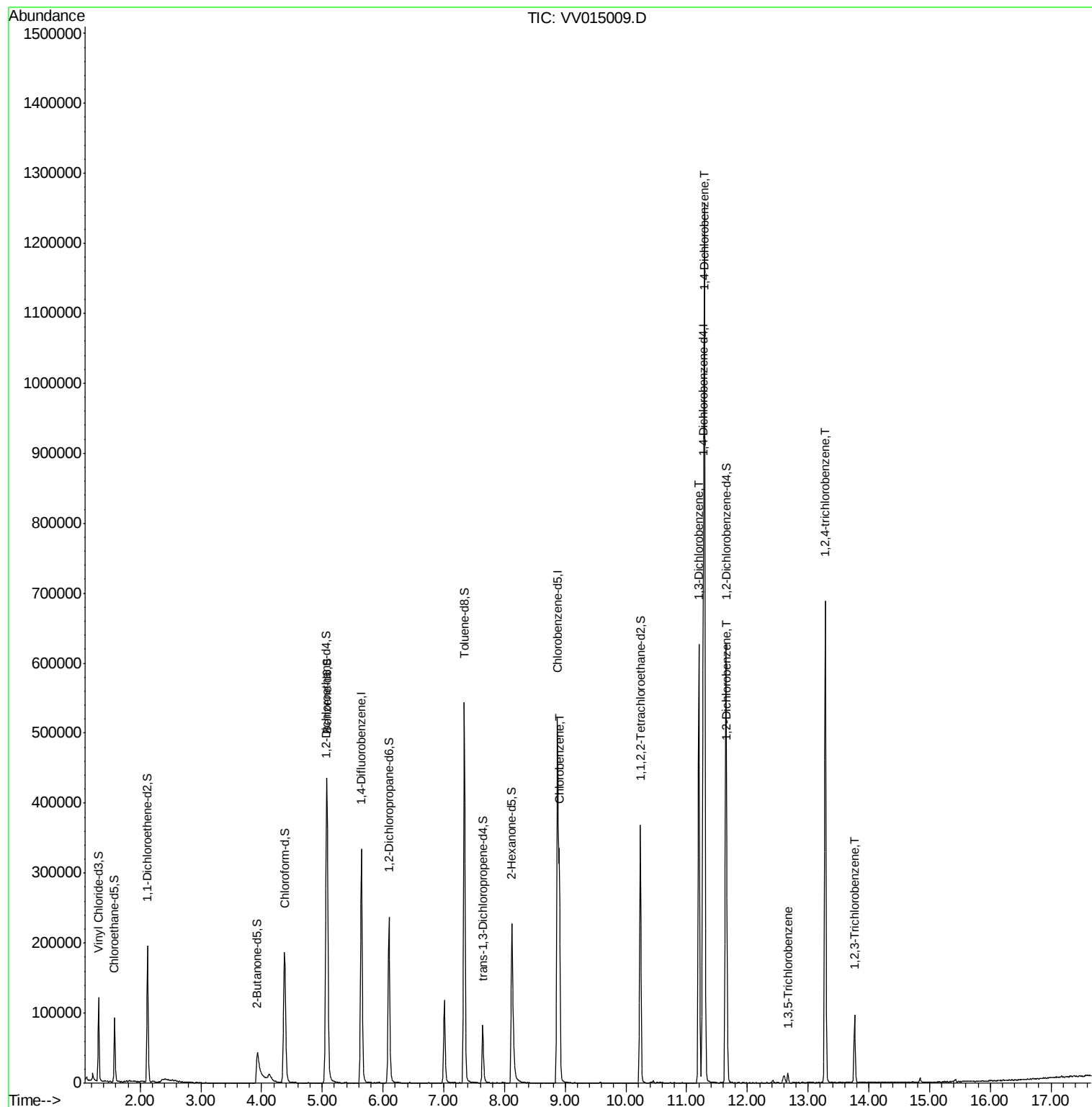
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV031720\  
Data File : VV015009.D  
Acq On : 18 Mar 2020 06:00  
Operator : SY/MD  
Sample : L1941-10  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 48 Sample Multiplier: 1

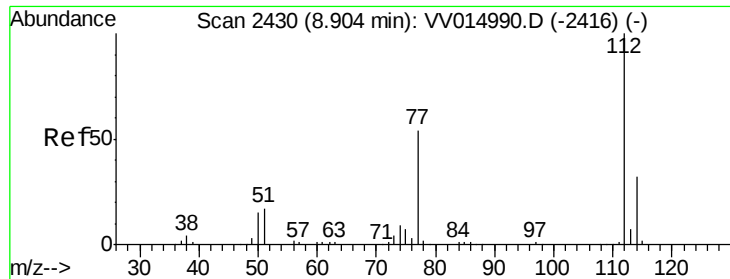
Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Mar 18 08:56:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031620WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 18 07:43:00 2020  
Response via : Initial Calibration





#51

Chlorobenzene

Concen: 28.138 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV015009.D

Acq: 18 Mar 2020 06:00

Instrument :

MSVOA\_V

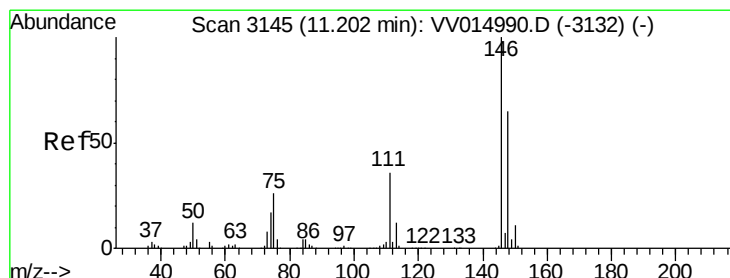
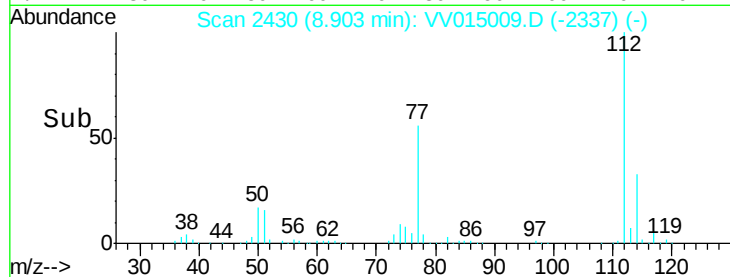
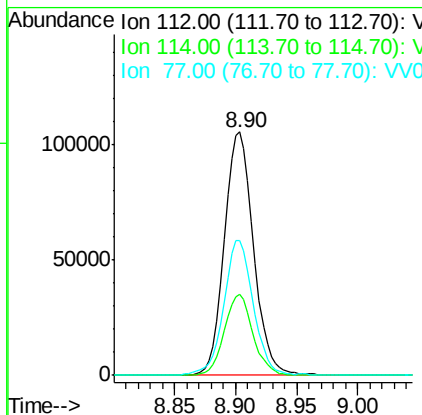
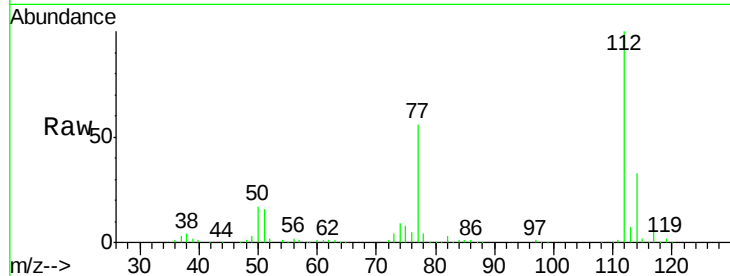
ClientSampleId :

C0DC0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 177458 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 114       | 33.5  | 22.8  | 42.4   |
| 77        | 55.6  | 44.5  | 66.7   |

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#62

1,3-Dichlorobenzene

Concen: 52.077 ug/L

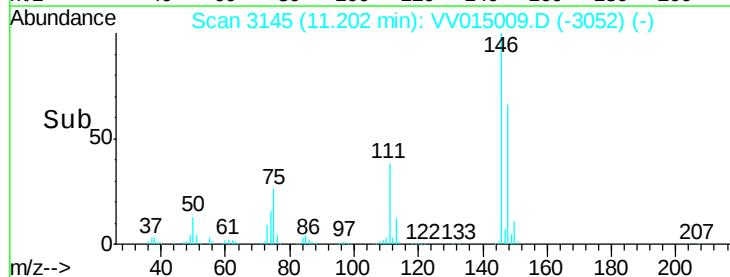
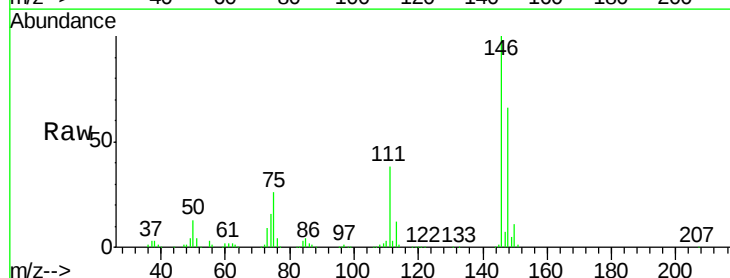
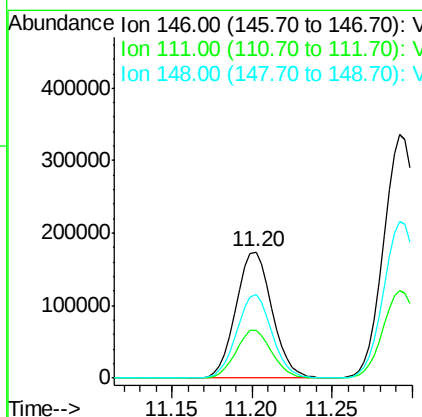
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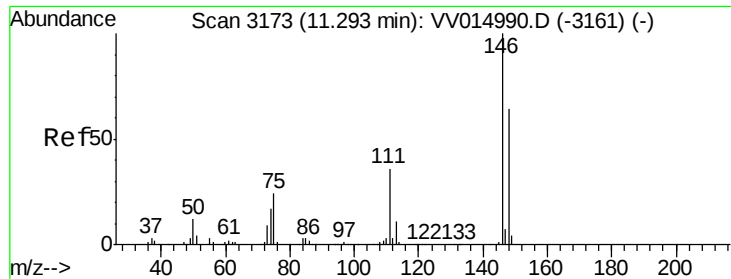
Delta R.T. -0.00 min

Lab File: VV015009.D

Acq: 18 Mar 2020 06:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 267633 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.6  | 26.5  | 49.3   |
| 148       | 65.9  | 45.4  | 84.2   |





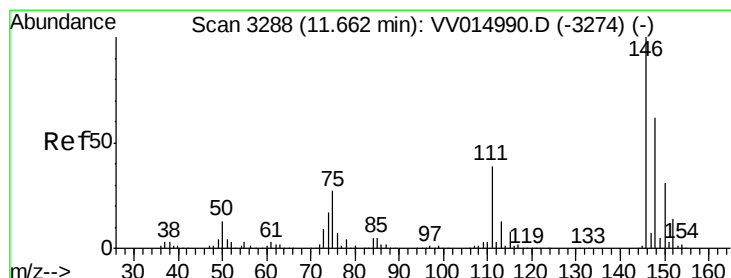
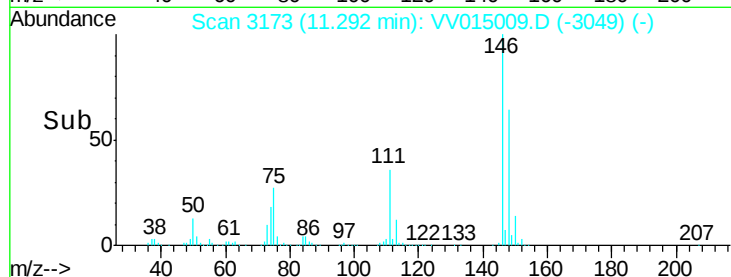
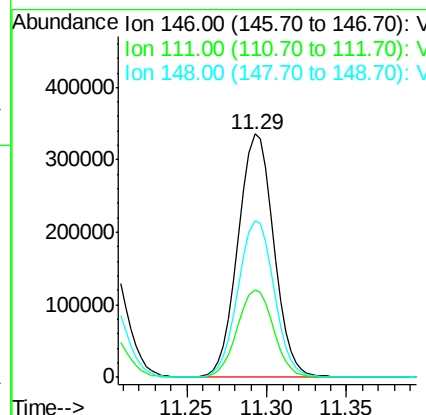
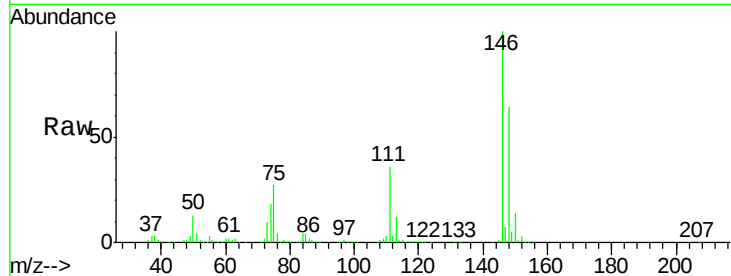
#63  
 1,4-Dichlorobenzene  
 Concen: 98.633 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV015009.D  
 Acq: 18 Mar 2020 06:00

Instrument :  
 MSVOA\_V  
 ClientSampled :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.2  | 26.0  | 48.2  |
| 148     | 64.5  | 46.1  | 85.5  |

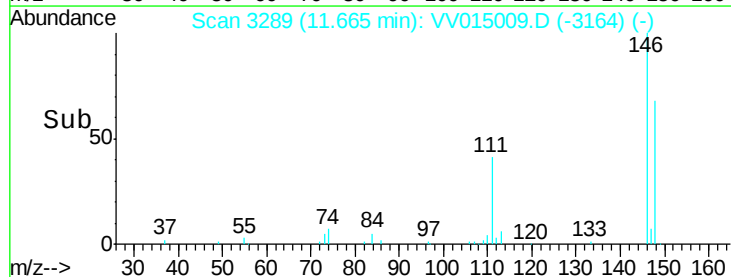
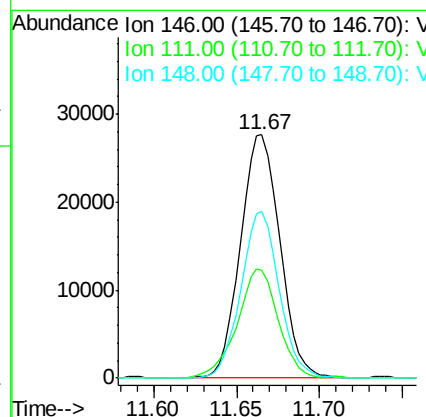
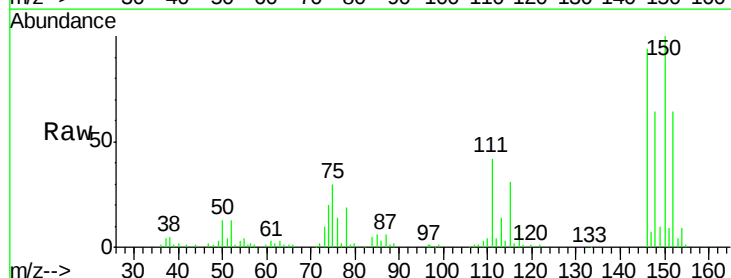
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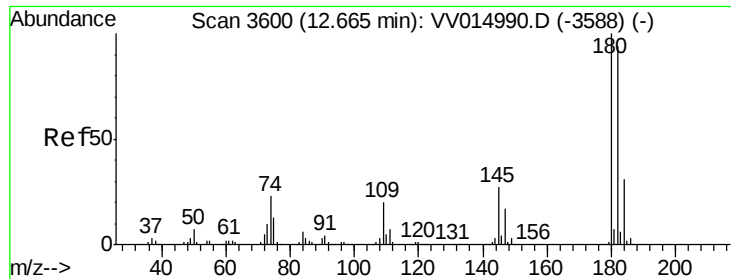
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#65  
 1,2-Dichlorobenzene  
 Concen: 8.952 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015009.D  
 Acq: 18 Mar 2020 06:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.2  | 31.6  | 47.4  |
| 148     | 68.4  | 52.2  | 78.4  |





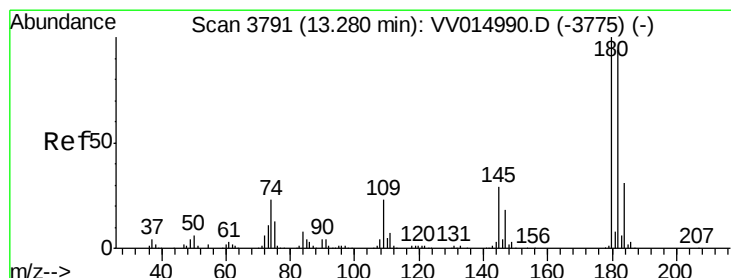
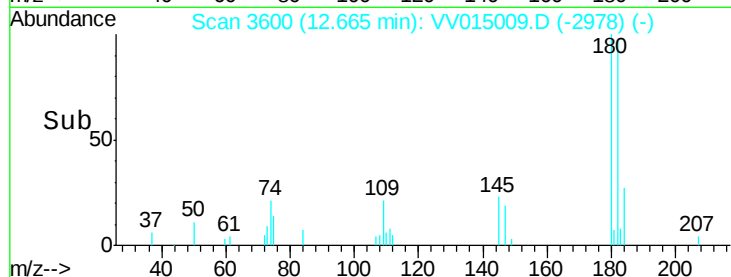
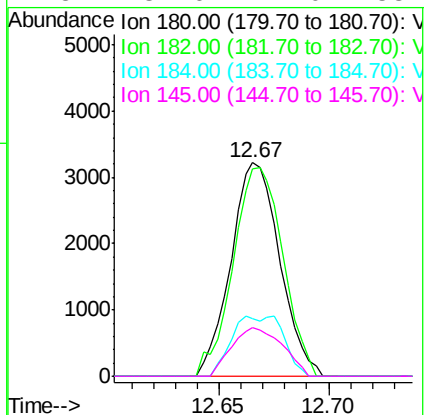
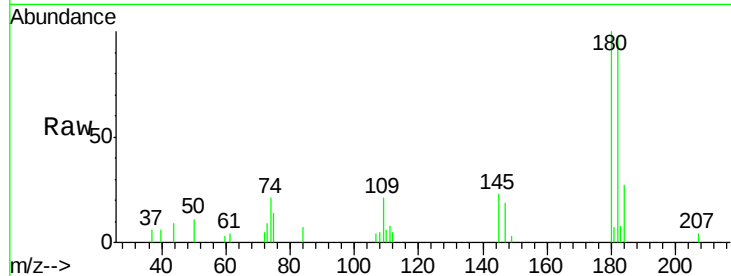
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.237 ug/L m  
 RT: 12.67 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VV015009.D  
 Acq: 18 Mar 2020 06:00

Instrument :  
 MSVOA\_V  
 ClientSampleID :  
 C0DC0

| Tot Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 180     | 100    |       |       |
| 182     | 4312.7 | 75.7  | 113.5 |
| 184     | 1383.8 | 24.2  | 36.4  |
| 145     | 1231.6 | 22.0  | 33.0  |

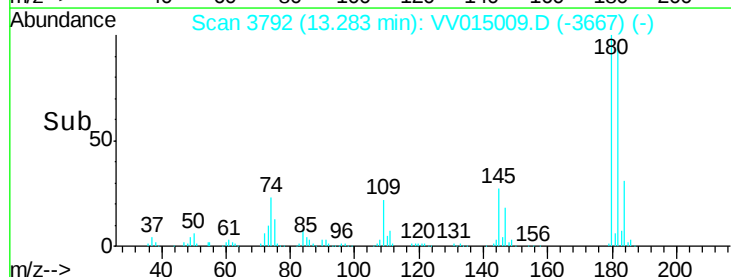
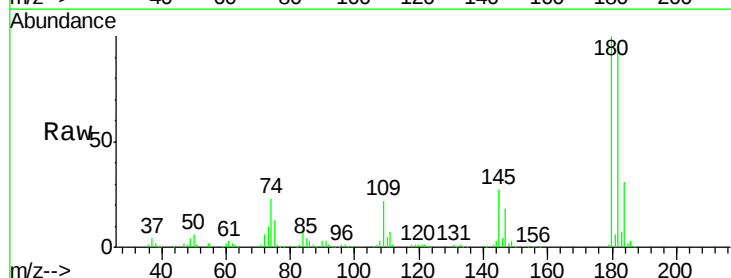
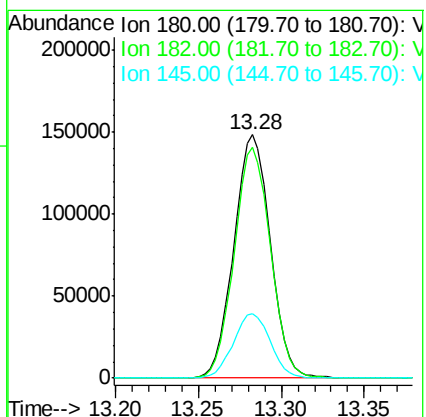
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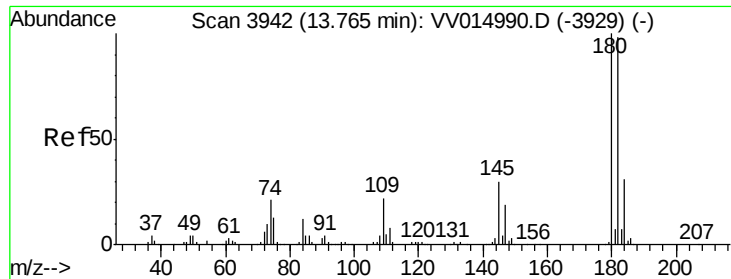
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#68  
 1,2,4-trichlorobenzene  
 Concen: 63.314 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV015009.D  
 Acq: 18 Mar 2020 06:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.6  | 76.3  | 114.5 |
| 145     | 27.0  | 23.1  | 34.7  |





#70  
 1,2,3-Trichlorobenzene  
 Concen: 9.091 ug/L  
 RT: 13.76 min Scan# 3942  
 Delta R.T. -0.00 min  
 Lab File: VV015009.D  
 Acq: 18 Mar 2020 06:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DC0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.7  | 76.2  | 114.4 |
| 145     | 28.8  | 24.1  | 36.1  |

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