

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031620\  
 Data File : VV014948.D  
 Acq On : 16 Mar 2020 16:07  
 Operator : SY/MD  
 Sample : L1890-13  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DG0

Quant Time: Mar 18 04:05:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 18 03:17:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 357249   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 345641   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 167031   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 107925   | 45.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.70%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 82345    | 46.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.16%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 129230   | 35.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.78%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 105110   | 72.43    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 72.43%  |
| 24) Chloroform-d               | 4.38    | 84    | 224209   | 45.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.42%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 147877   | 47.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.14%  |
| 32) Benzene-d6                 | 5.08    | 84    | 463491   | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.36%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 134277   | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.72%  |
| 41) Toluene-d8                 | 7.34    | 98    | 446405   | 47.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 67835    | 45.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.00%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 126705   | 99.00    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.00%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 194631   | 46.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.78%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 185258   | 50.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.26% |

## Target Compounds

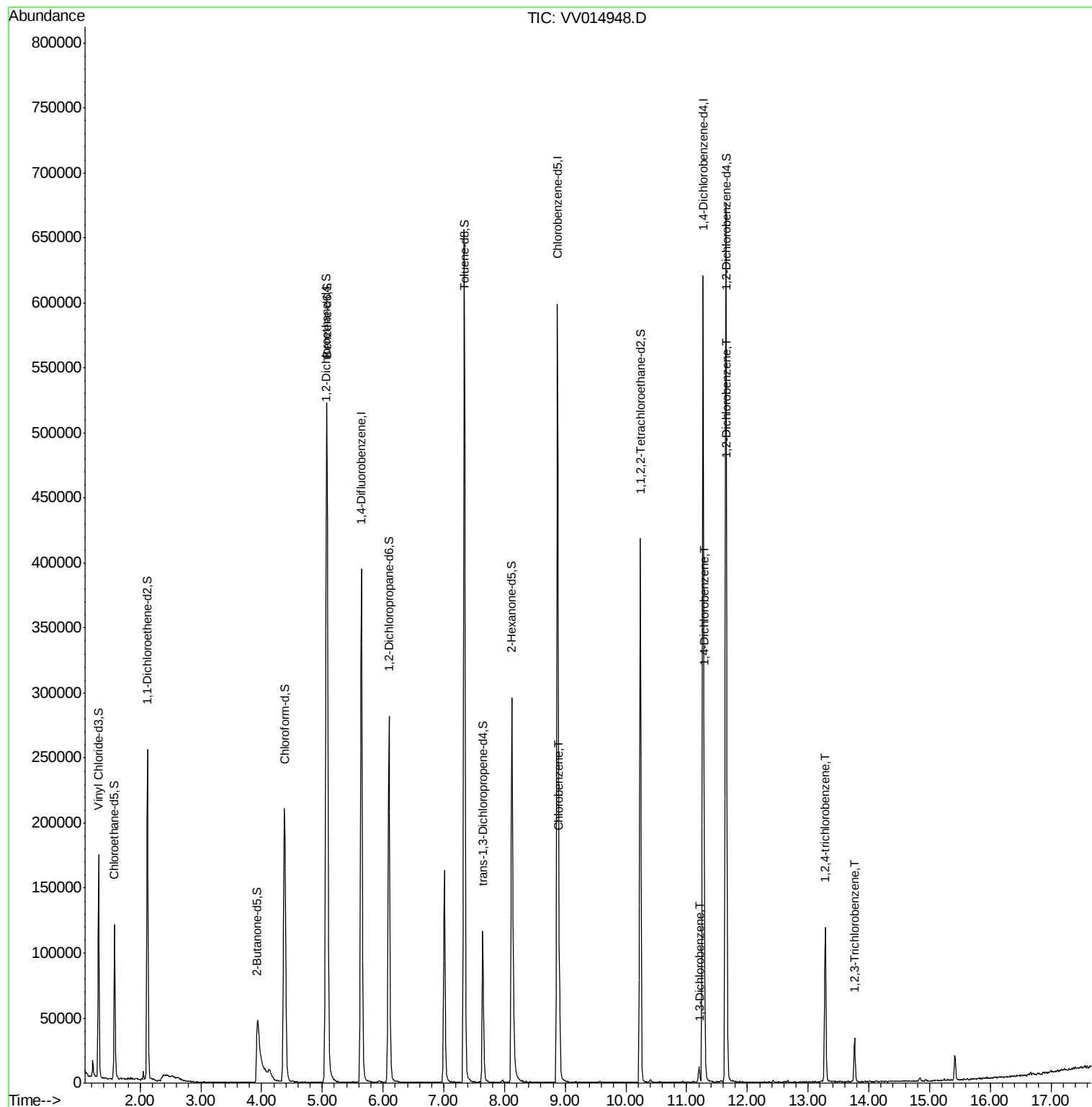
|                            |       |     |       |             | Ovalue |
|----------------------------|-------|-----|-------|-------------|--------|
| 51) Chlorobenzene          | 8.90  | 112 | 40630 | 5.575 ug/L  | 98     |
| 62) 1,3-Dichlorobenzene    | 11.21 | 146 | 6144  | 1.116 ug/L  | 92     |
| 63) 1,4-Dichlorobenzene    | 11.29 | 146 | 35498 | 6.402 ug/L  | 98     |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146 | 25114 | 4.568 ug/L  | 94     |
| 68) 1,2,4-trichlorobenzene | 13.28 | 180 | 39183 | 10.187 ug/L | 96     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180 | 12198 | 3.204 ug/L  | 94     |

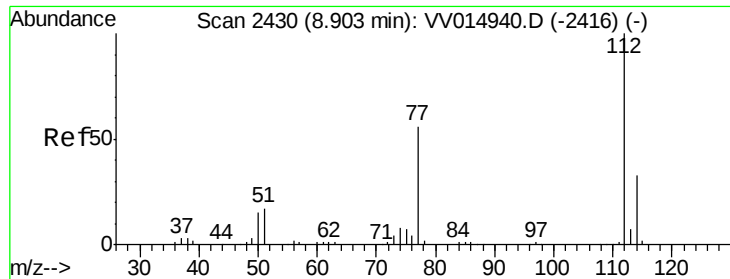
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L1890-13  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
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Quant Time: Mar 18 04:05:42 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031620WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 18 03:17:46 2020  
Response via : Initial Calibration





#51

Chlorobenzene

Concen: 5.575 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV014948.D

Acq: 16 Mar 2020 16:07

Instrument :

MSVOA\_V

ClientSampleId :

C0DG0

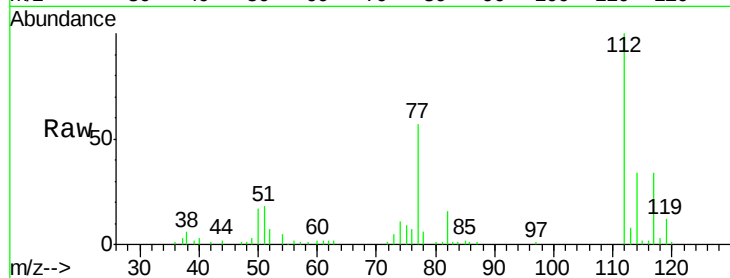
Tot Ion:112 Resp: 40630

Ion Ratio Lower Upper

112 100

114 34.0 22.8 42.4

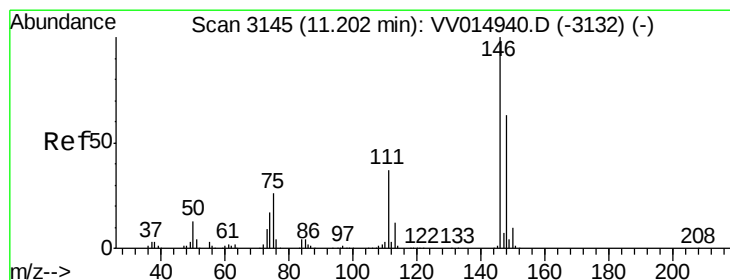
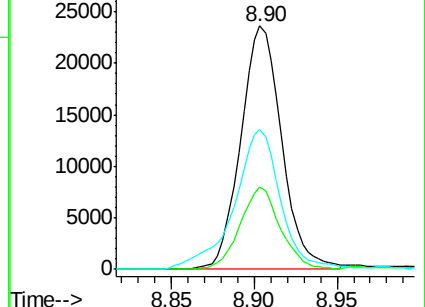
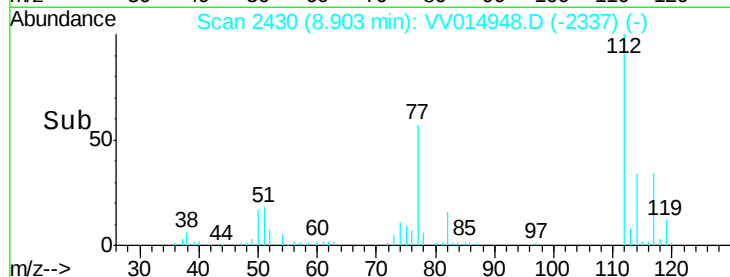
77 57.4 44.5 66.7



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



#62

1,3-Dichlorobenzene

Concen: 1.116 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV014948.D

Acq: 16 Mar 2020 16:07

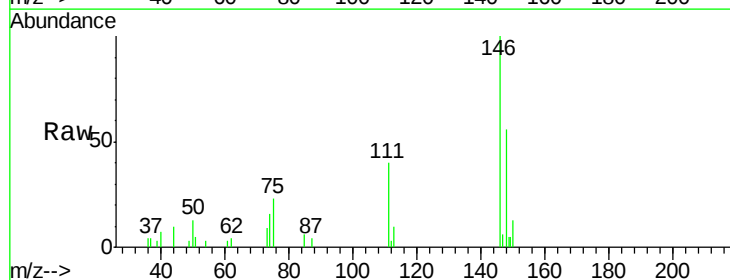
Tgt Ion:146 Resp: 6144

Ion Ratio Lower Upper

146 100

111 40.0 26.5 49.3

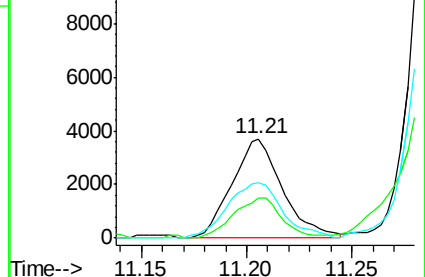
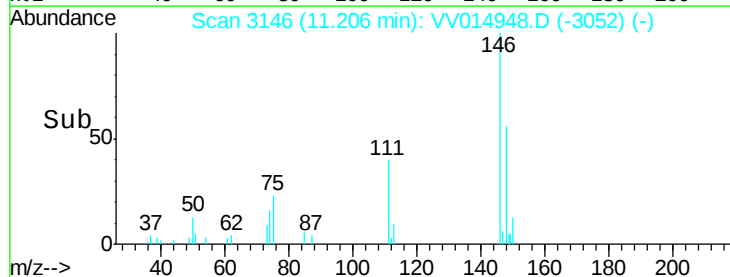
148 56.5 45.4 84.2

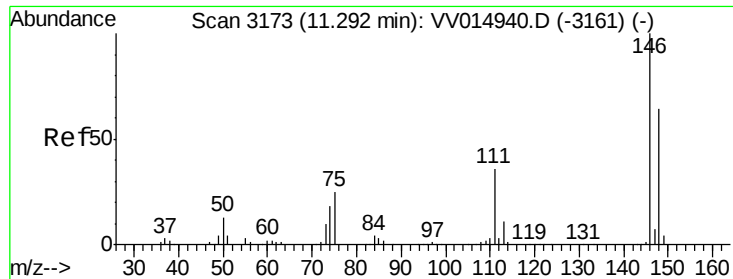


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

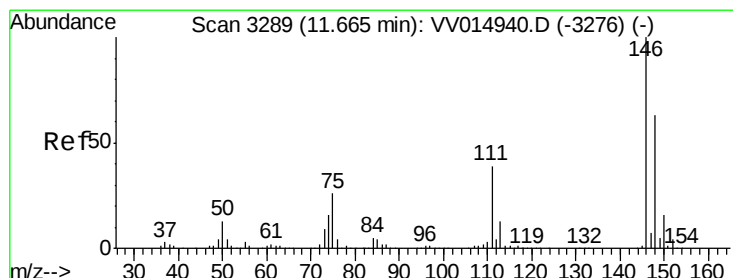
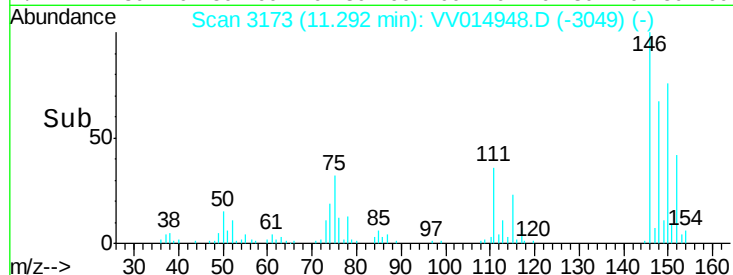
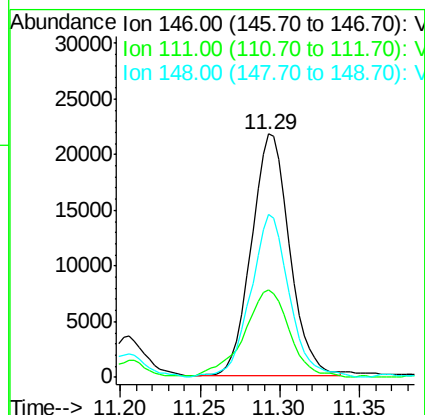
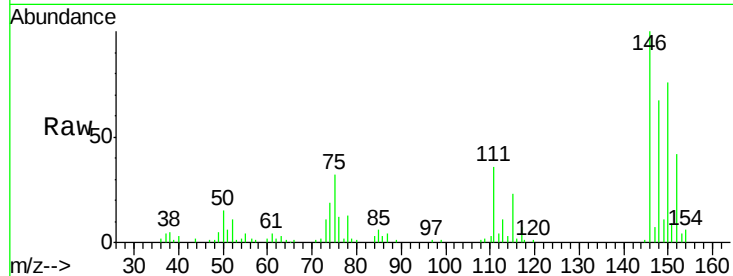




#63  
 1,4-Dichlorobenzene  
 Concen: 6.402 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. -0.00 min  
 Lab File: VV014948.D  
 Acq: 16 Mar 2020 16:07

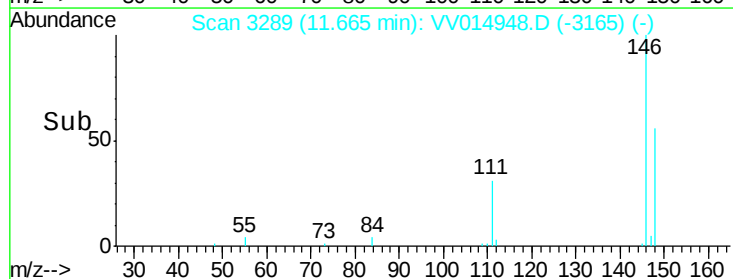
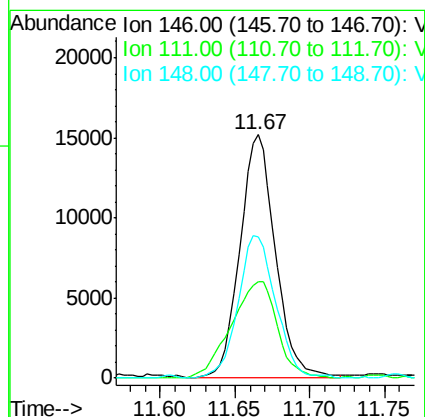
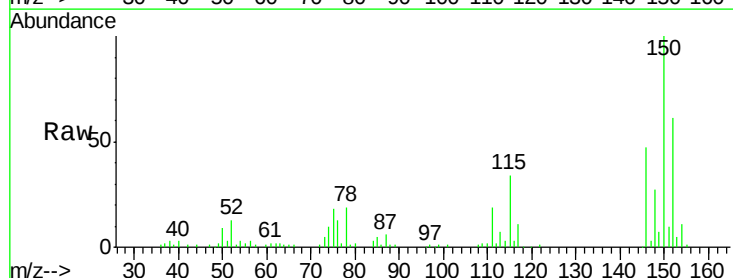
Instrument :  
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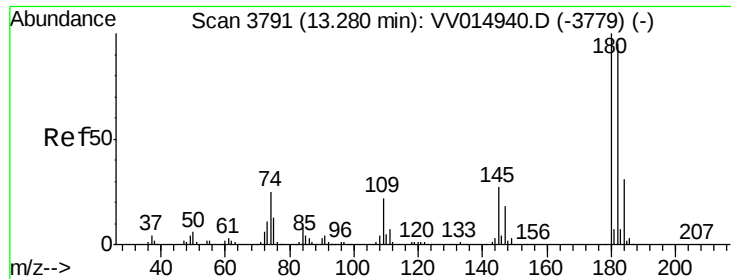
Tot Ion:146 Resp: 35498  
 Ion Ratio Lower Upper  
 146 100  
 111 35.8 26.0 48.2  
 148 66.9 46.1 85.5



#65  
 1,2-Dichlorobenzene  
 Concen: 4.568 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. -0.00 min  
 Lab File: VV014948.D  
 Acq: 16 Mar 2020 16:07

Tgt Ion:146 Resp: 25114  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 31.6 47.4  
 148 58.0 52.2 78.4

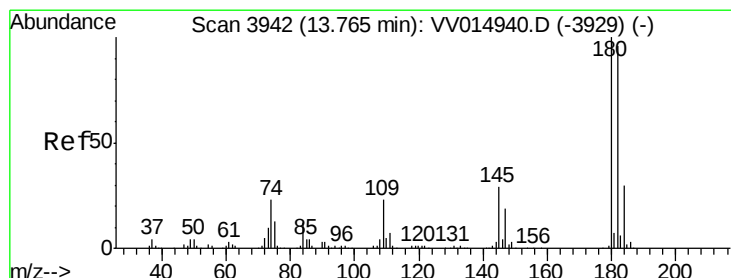
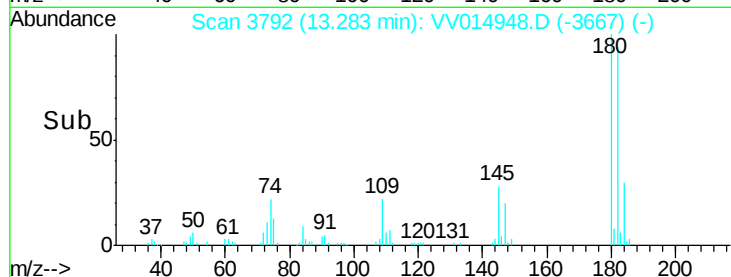
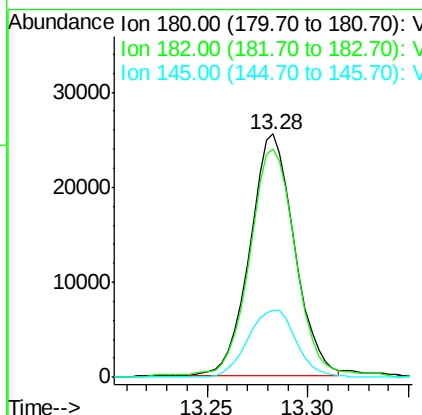
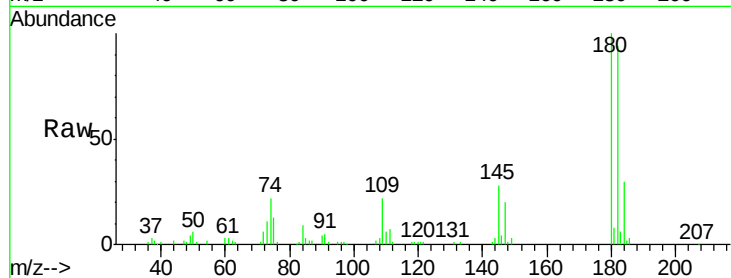




#68  
 1,2,4-trichlorobenzene  
 Concen: 10.187 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV014948.D  
 Acq: 16 Mar 2020 16:07

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DG0

Tot Ion:180 Resp: 39183  
 Ion Ratio Lower Upper  
 180 100  
 182 99.4 76.3 114.5  
 145 30.4 23.1 34.7



#70  
 1,2,3-Trichlorobenzene  
 Concen: 3.204 ug/L  
 RT: 13.77 min Scan# 3942  
 Delta R.T. -0.00 min  
 Lab File: VV014948.D  
 Acq: 16 Mar 2020 16:07

Tgt Ion:180 Resp: 12198  
 Ion Ratio Lower Upper  
 180 100  
 182 88.3 76.2 114.4  
 145 27.9 24.1 36.1

