

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032520\  
 Data File : VV015154.D  
 Acq On : 25 Mar 2020 23:21  
 Operator : SY/MD  
 Sample : L1968-08 100X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DD8

Quant Time: Mar 26 04:54:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 26 02:00:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 590346   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 573627   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 259559   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 208697   | 42.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.56% |
| 7) Chloroethane-d5             | 1.58    | 69    | 197636   | 44.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 335154   | 34.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.94% |
| 21) 2-Butanone-d5              | 3.94    | 46    | 277995   | 85.83    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.83% |
| 24) Chloroform-d               | 4.38    | 84    | 363365   | 44.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.76% |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 248363   | 46.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.50% |
| 32) Benzene-d6                 | 5.07    | 84    | 745954   | 45.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.20% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 235475   | 44.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.72% |
| 41) Toluene-d8                 | 7.34    | 98    | 719041   | 45.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.98% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 110479   | 38.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.86% |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 235997   | 89.77    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.77% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 343390   | 44.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.86% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 255166   | 43.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.90% |

## Target Compounds

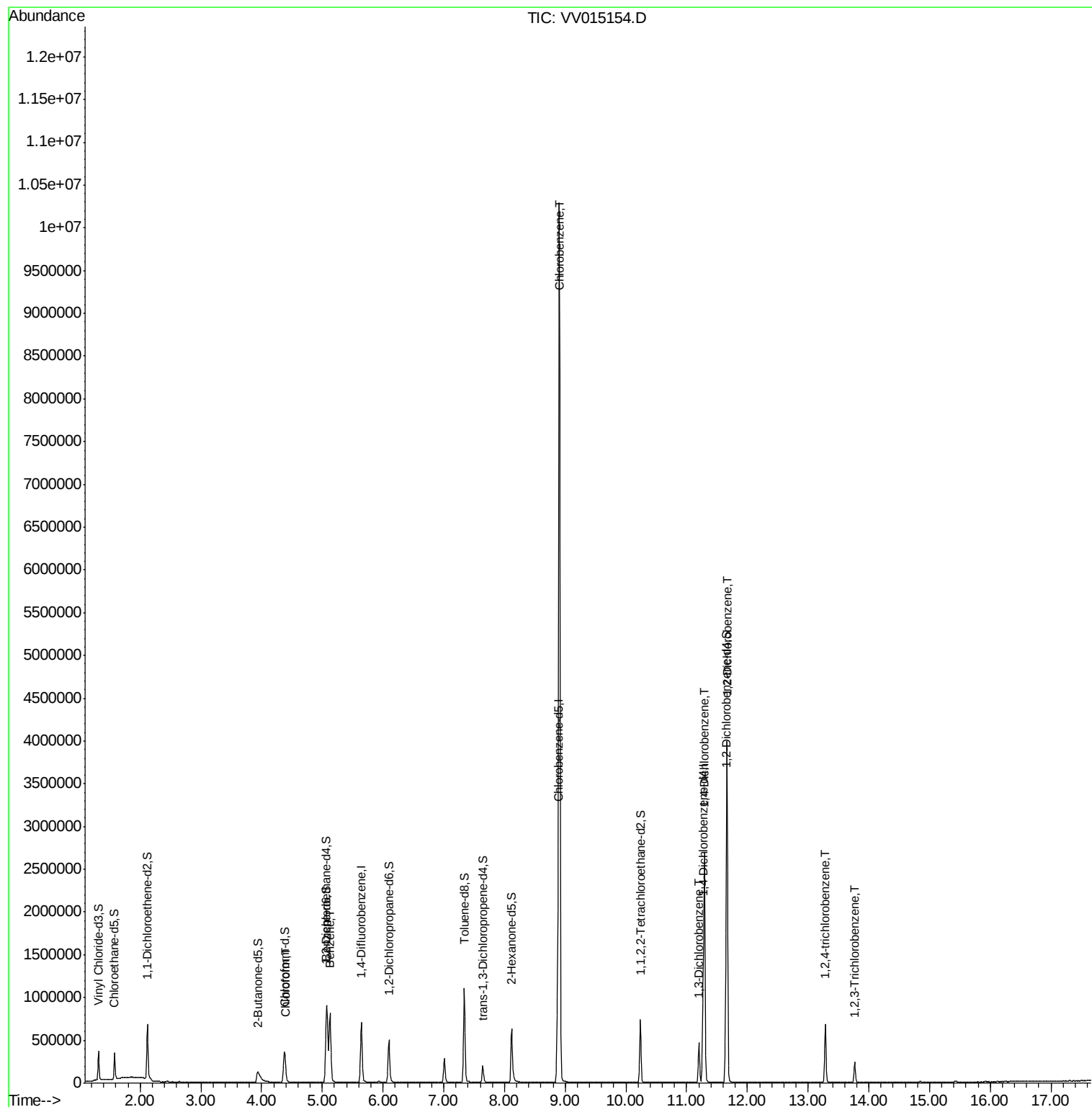
|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 25) Chloroform             | 4.40  | 83  | 7295    | 1.089 ug/L   | 92     |
| 33) Benzene                | 5.13  | 78  | 829091  | 56.165 ug/L  | 100    |
| 51) Chlorobenzene          | 8.90  | 112 | 5164673 | 485.306 ug/L | 98     |
| 62) 1,3-Dichlorobenzene    | 11.20 | 146 | 169977  | 22.359 ug/L  | 96     |
| 63) 1,4-Dichlorobenzene    | 11.30 | 146 | 947005  | 122.274 ug/L | 97     |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146 | 1384559 | 180.516 ug/L | 98     |
| 68) 1,2,4-trichlorobenzene | 13.28 | 180 | 175327  | 36.349 ug/L  | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.77 | 180 | 60764   | 12.677 ug/L  | 100    |

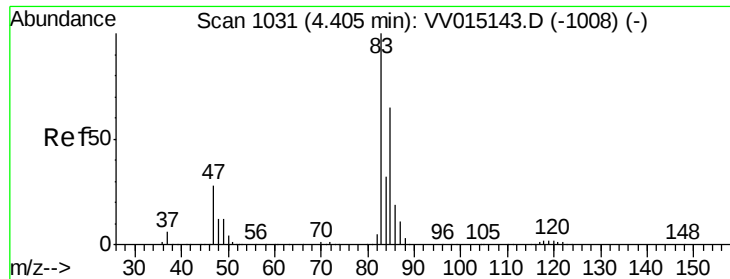
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV032520\  
Data File : VV015154.D  
Acq On : 25 Mar 2020 23:21  
Operator : SY/MD  
Sample : L1968-08 100X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0DD8

Quant Time: Mar 26 04:54:12 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032520WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 26 02:00:02 2020  
Response via : Initial Calibration





#25

Chloroform

Concen: 1.089 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VV015154.D

Acq: 25 Mar 2020 23:21

Instrument :

MSVOA\_V

ClientSampleId :

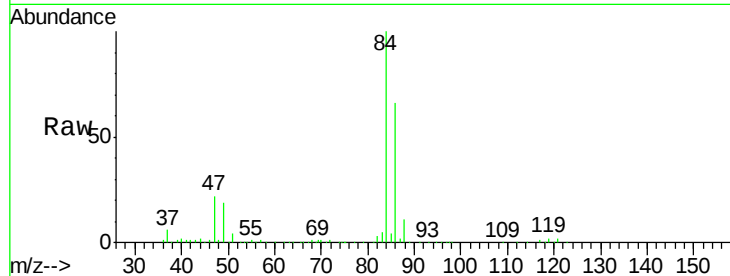
C0DD8

Tot Ion: 83 Resp: 7295

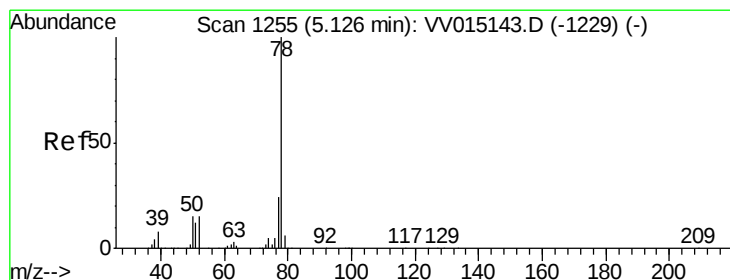
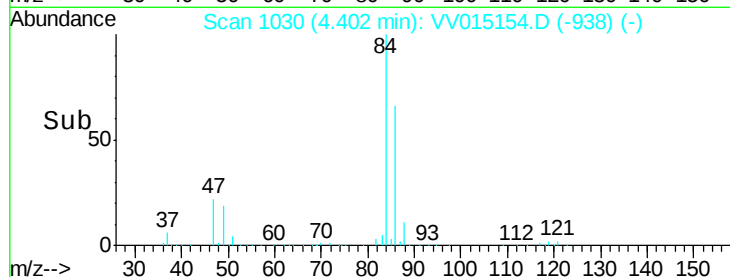
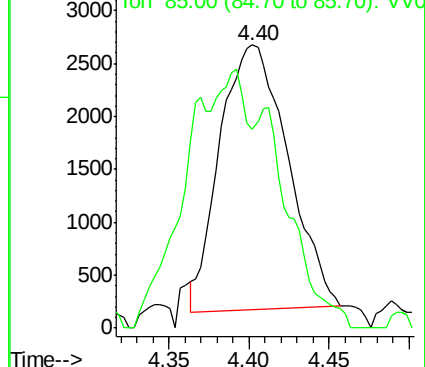
Ion Ratio Lower Upper

83 100

85 70.1 44.8 83.2



Abundance Ion 83.00 (82.70 to 83.70): VV015154.D (-938) (-)



#33

Benzene

Concen: 56.165 ug/L

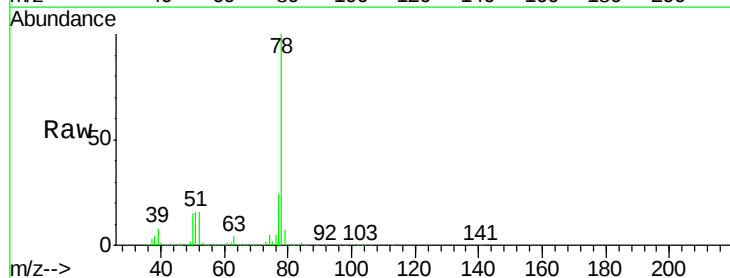
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

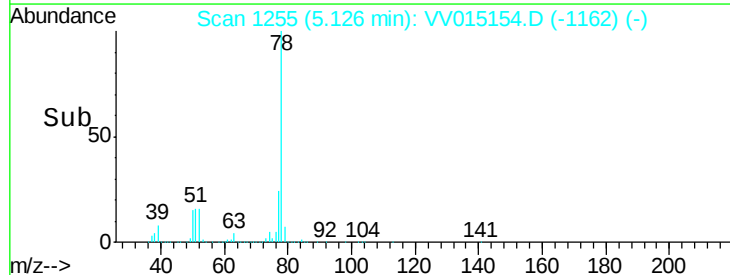
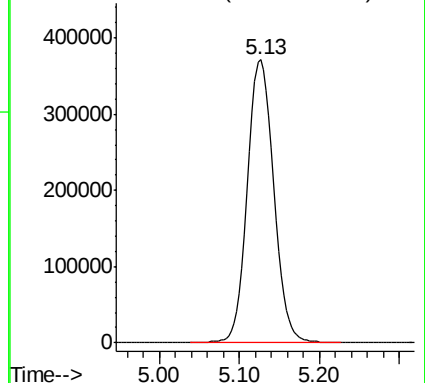
Lab File: VV015154.D

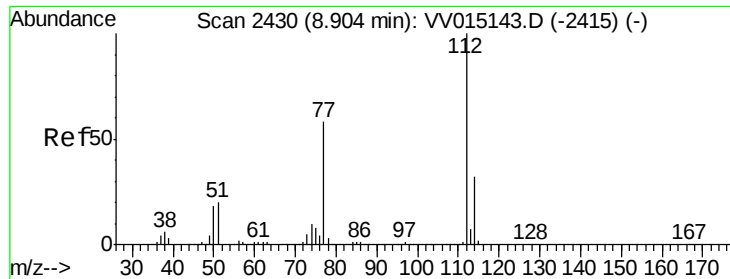
Acq: 25 Mar 2020 23:21

Tgt Ion: 78 Resp: 829091



Abundance Ion 78.00 (77.70 to 78.70): VV015154.D (-1162) (-)





#51

Chlorobenzene

Concen: 485.306 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV015154.D

Acq: 25 Mar 2020 23:21

Instrument :

MSVOA\_V

ClientSampleId :

C0DD8

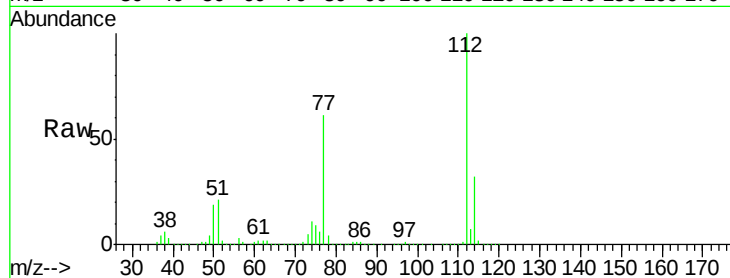
Tot Ion:112 Resp: 5164673

Ion Ratio Lower Upper

112 100

114 32.4 22.0 40.8

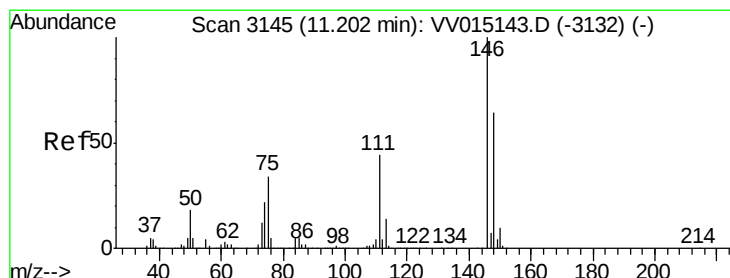
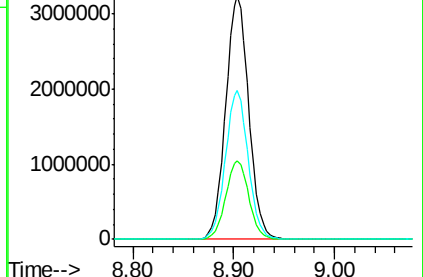
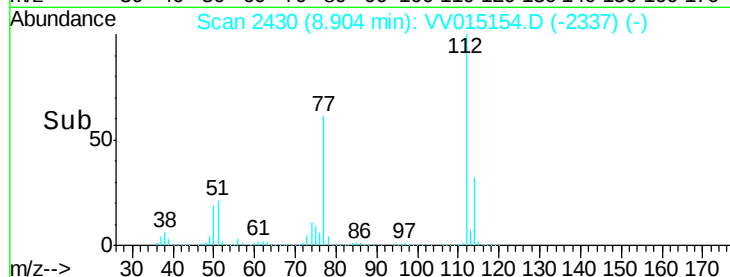
77 60.9 47.2 70.8



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: 22.359 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV015154.D

Acq: 25 Mar 2020 23:21

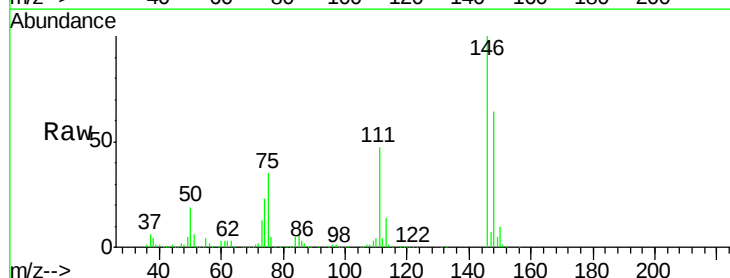
Tgt Ion:146 Resp: 169977

Ion Ratio Lower Upper

146 100

111 47.2 29.3 54.5

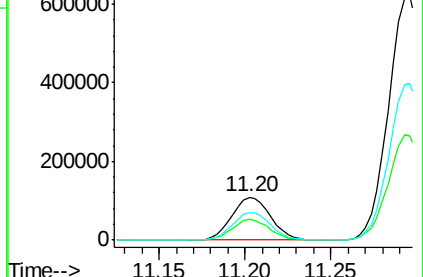
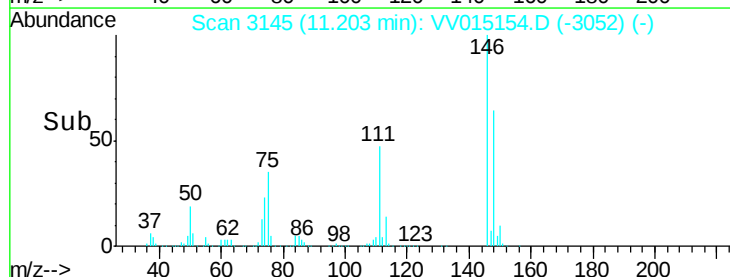
148 64.1 44.7 82.9

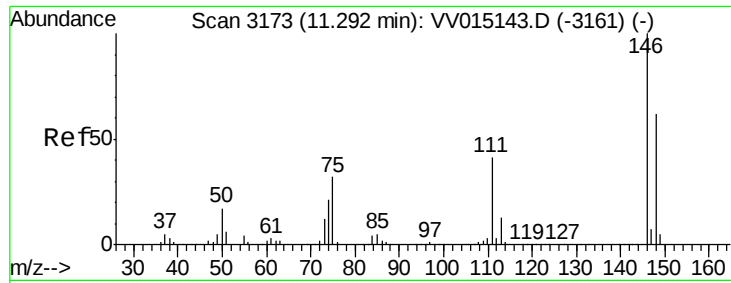


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

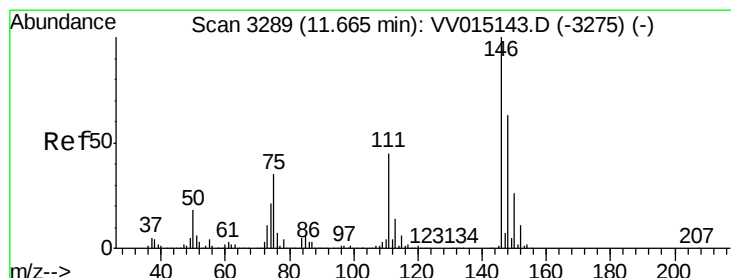
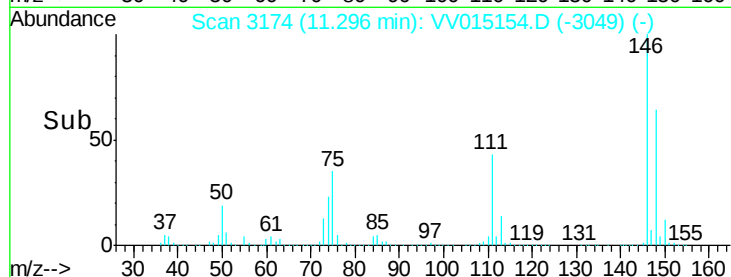
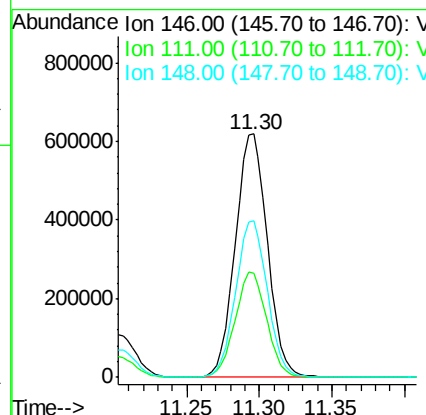
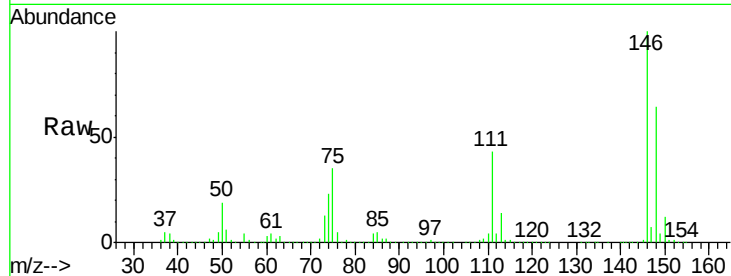




#63  
 1,4-Dichlorobenzene  
 Concen: 122.274 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV015154.D  
 Acq: 25 Mar 2020 23:21

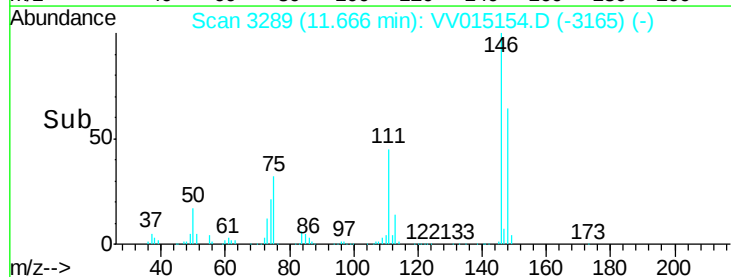
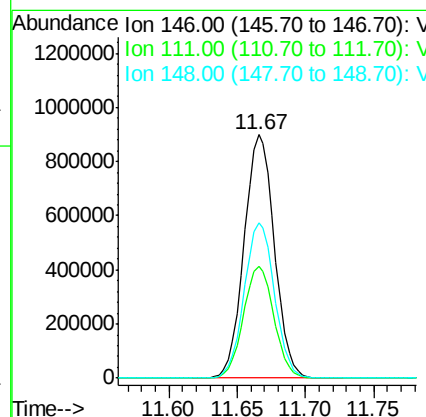
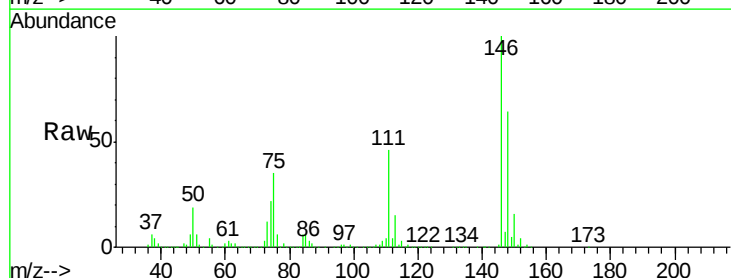
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DD8

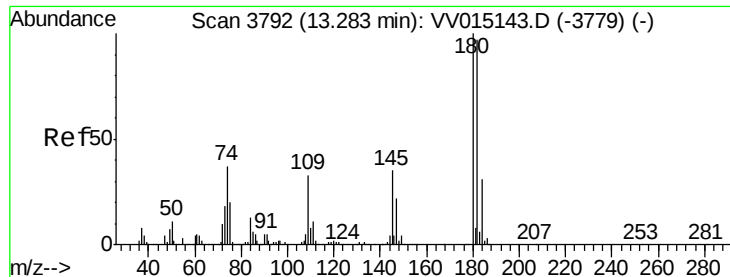
Tot Ion:146 Resp: 947005  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 28.4 52.8  
 148 64.5 44.0 81.8



#65  
 1,2-Dichlorobenzene  
 Concen: 180.516 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV015154.D  
 Acq: 25 Mar 2020 23:21

Tgt Ion:146 Resp: 1384559  
 Ion Ratio Lower Upper  
 146 100  
 111 45.7 35.4 53.2  
 148 63.8 49.7 74.5

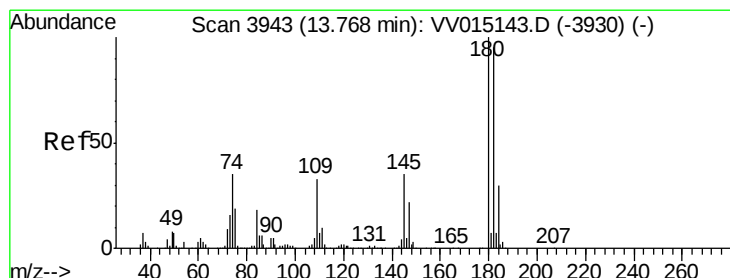
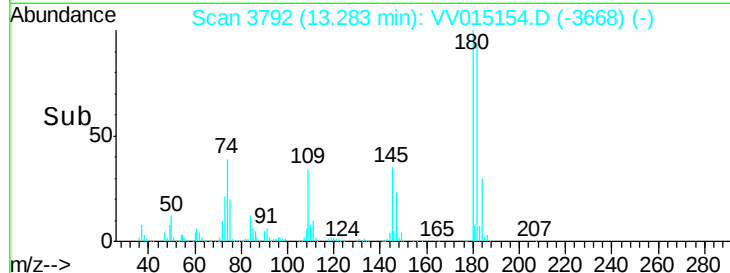
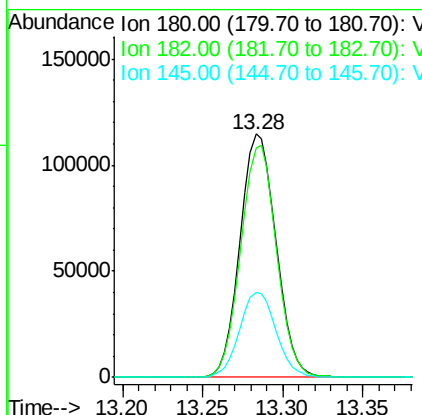
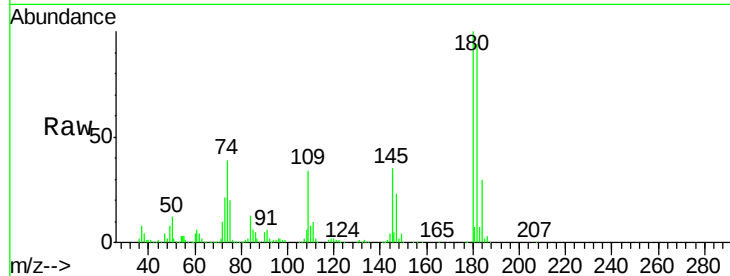




#68  
 1,2,4-trichlorobenzene  
 Concen: 36.349 ug/L  
 RT: 13.28 min Scan# 3792  
 Delta R.T. 0.00 min  
 Lab File: VV015154.D  
 Acq: 25 Mar 2020 23:21

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0DD8

| Tot Ion   | 180   | Resp  | 175327 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.0  | 76.1  | 114.1  |
| 145       | 35.5  | 26.6  | 40.0   |



#70  
 1,2,3-Trichlorobenzene  
 Concen: 12.677 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. 0.00 min  
 Lab File: VV015154.D  
 Acq: 25 Mar 2020 23:21

| Tgt Ion   | 180   | Resp  | 60764 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 95.3  | 76.3  | 114.5 |
| 145       | 37.4  | 29.6  | 44.4  |

