

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV040419\  
 Data File : VV010112.D  
 Acq On : 04 Apr 2019 16:32  
 Operator : SY/MD  
 Sample : K2215-14  
 Misc : 5.73G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2P3

Quant Time: Apr 05 01:30:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 05 01:26:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 200851   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 196702   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 87721    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 54687    | 20.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 81.36%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 52360    | 15.68    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 62.72%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 112702   | 16.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 66.48%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 50755    | 66.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 132.66% |
| 24) Chloroform-d               | 4.40   | 84    | 117851   | 23.29    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 93.16%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 74598    | 26.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.40% |
| 29) Benzene-d6                 | 5.10   | 84    | 240424   | 23.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.28%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 73411    | 24.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.56%  |
| 37) Toluene-d8                 | 7.36   | 98    | 229499   | 23.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.40%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 28002    | 21.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 87.04%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 36208    | 59.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 119.94% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 84884    | 28.59    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 114.36% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 89773    | 26.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 105.08% |

## Target Compounds

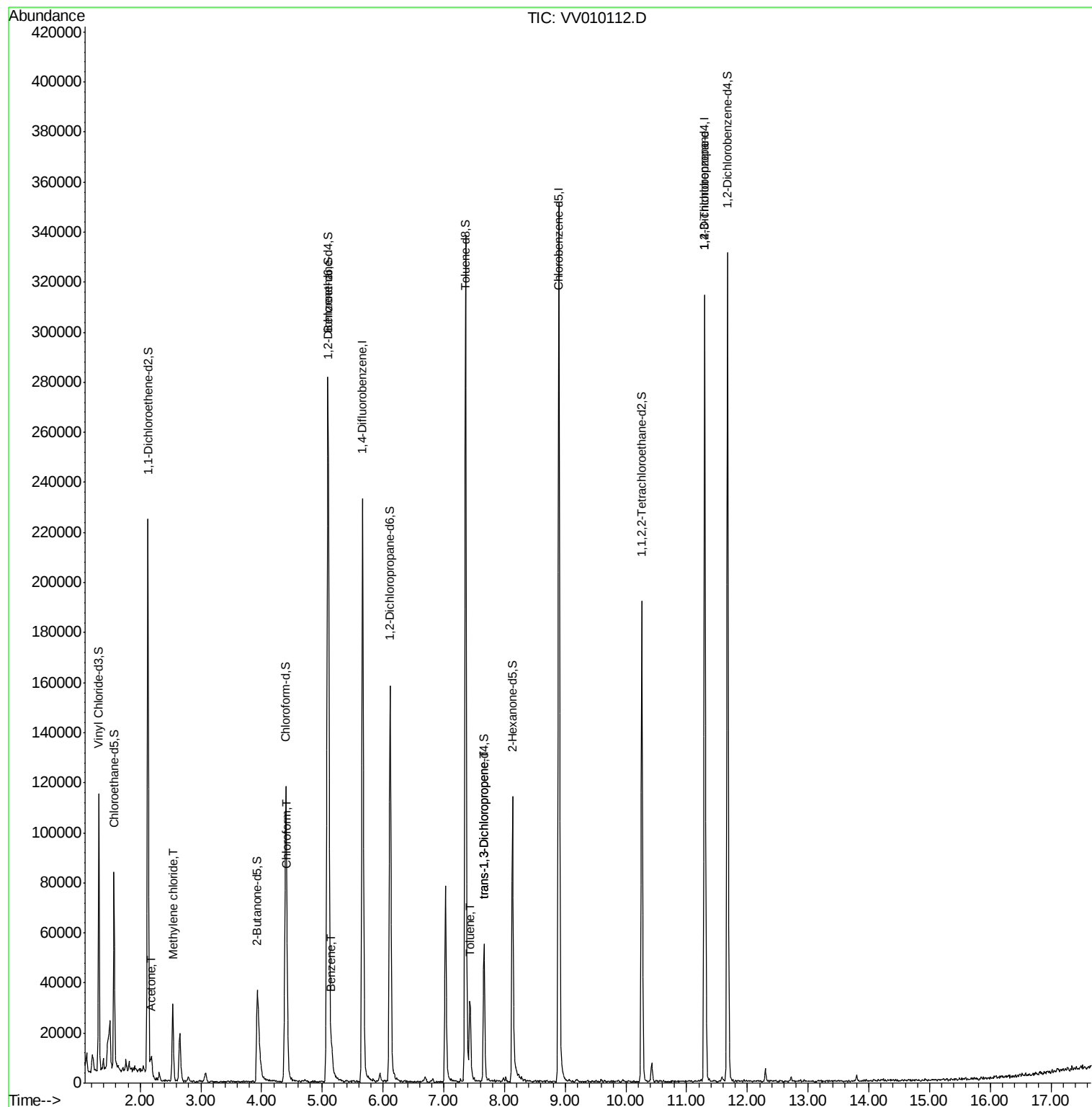
|                               |       |    |       |            | Qvalue |
|-------------------------------|-------|----|-------|------------|--------|
| 13) Acetone                   | 2.19  | 43 | 6065  | 8.017 ug/L | 98     |
| 16) Methylene chloride        | 2.54  | 84 | 12589 | 3.567 ug/L | 93     |
| 25) Chloroform                | 4.43  | 83 | 2521  | 0.552 ug/L | 94     |
| 34) Benzene                   | 5.15  | 78 | 5732  | 0.596 ug/L | 100    |
| 44) Toluene                   | 7.43  | 91 | 22364 | 2.072 ug/L | 100    |
| 45) trans-1,3-Dichloropropene | 7.66  | 75 | 1614  | 0.539 ug/L | 84     |
| 59) 1,2,3-Trichloropropane    | 11.30 | 75 | 12536 | 6.316 ug/L | 93     |

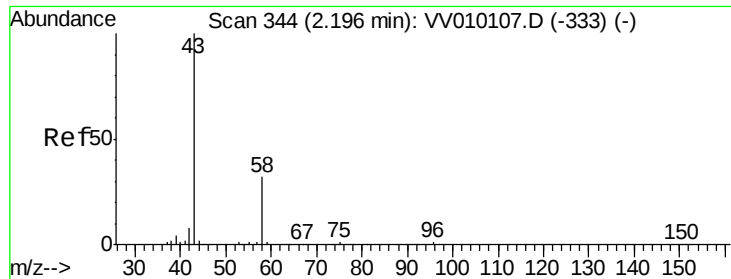
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Apr 05 01:26:41 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 8.017 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV010112.D

Acq: 04 Apr 2019 16:32

Instrument :

MSVOA\_V

ClientSampleId :

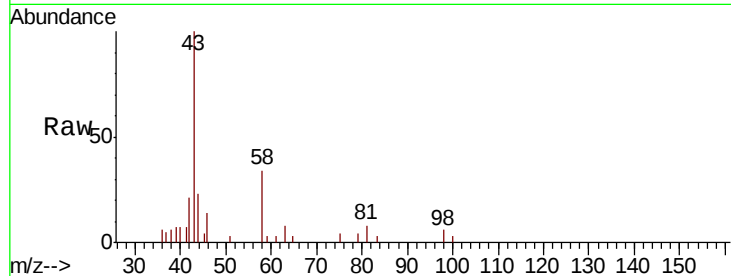
BF2P3

Tgt Ion: 43 Resp: 6065

Ion Ratio Lower Upper

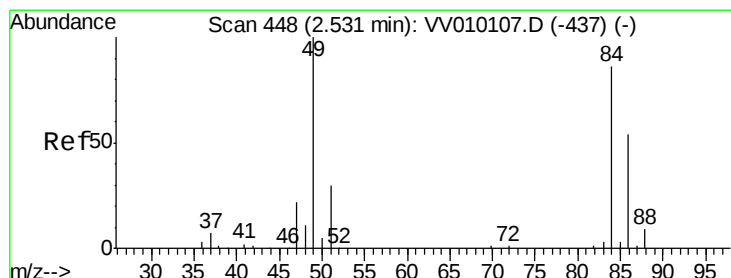
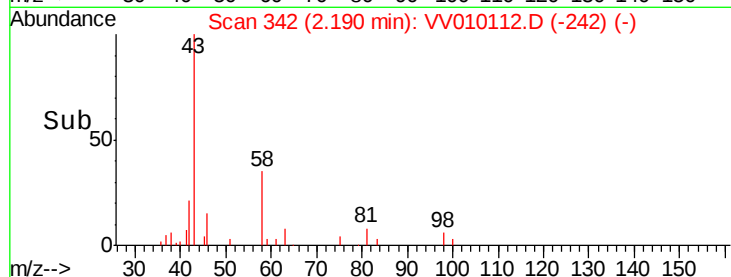
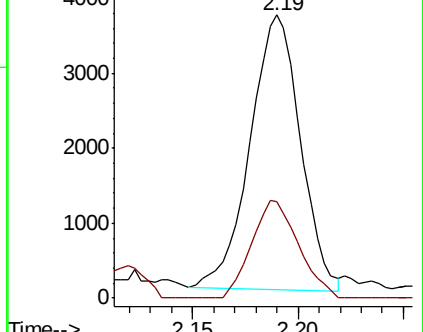
43 100

58 33.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010112.D (-242) (-)

Ion 58.00 (57.70 to 58.70): VV010112.D (-242) (-)



#16

Methylene chloride

Concen: 3.567 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV010112.D

Acq: 04 Apr 2019 16:32

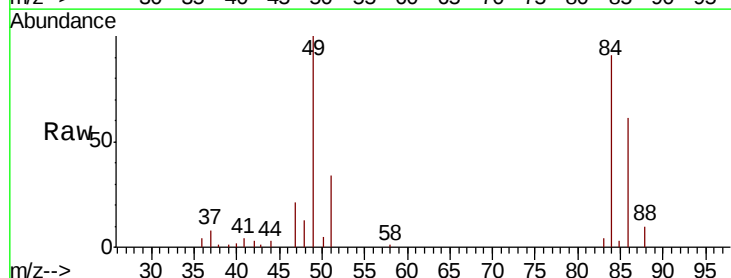
Tgt Ion: 84 Resp: 12589

Ion Ratio Lower Upper

84 100

49 110.4 84.3 156.5

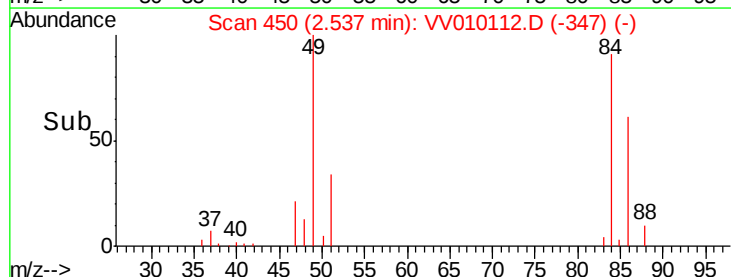
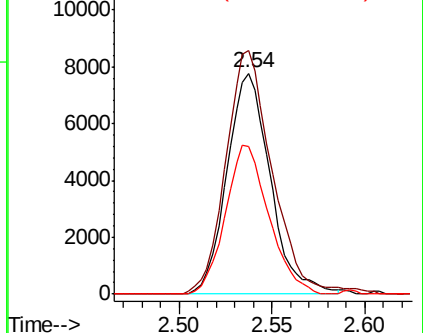
86 66.9 45.4 84.2

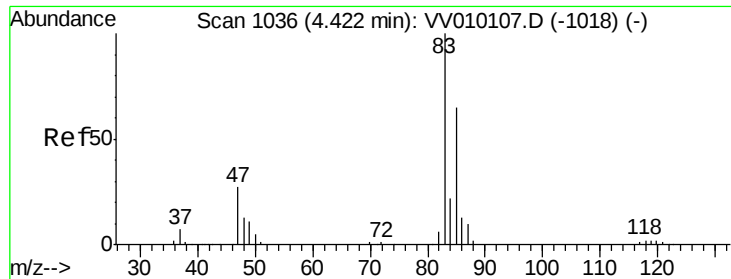


Abundance Ion 84.00 (83.70 to 84.70): VV010112.D (-347) (-)

Ion 49.00 (48.70 to 49.70): VV010112.D (-347) (-)

Ion 86.00 (85.70 to 86.70): VV010112.D (-347) (-)

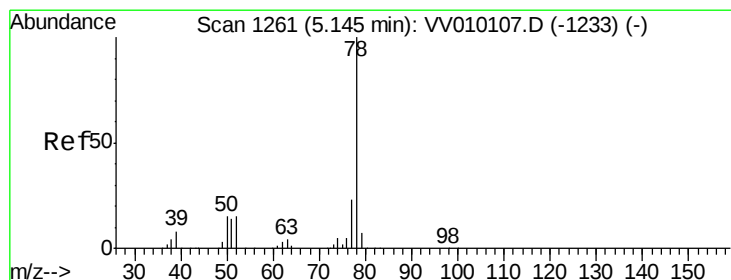
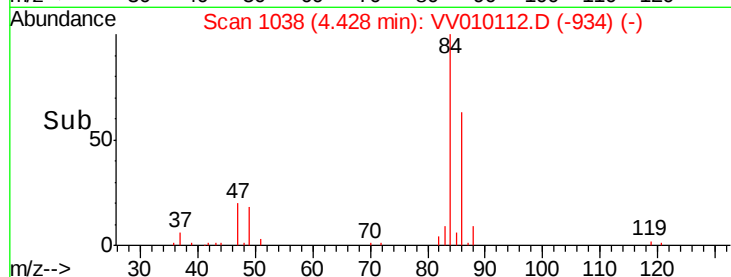
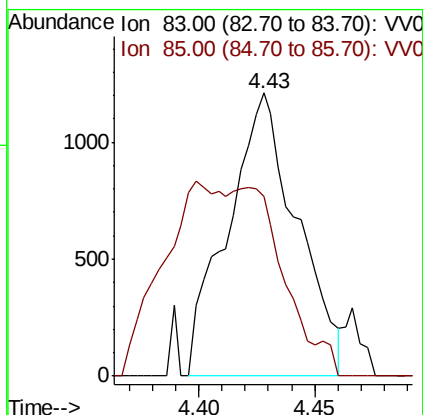
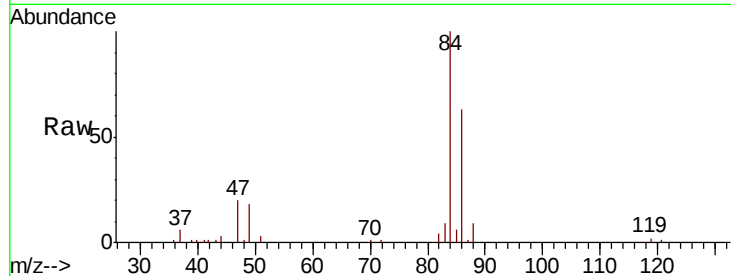




#25  
Chloroform  
Concen: 0.552 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV010112.D  
Acq: 04 Apr 2019 16:32

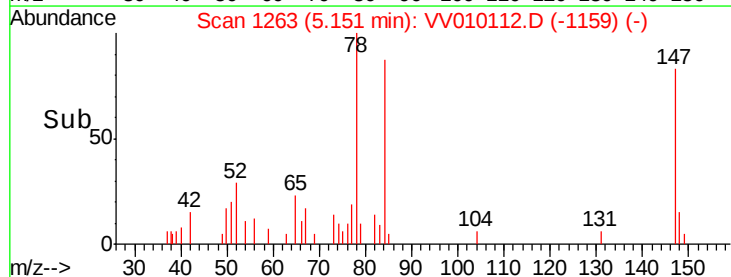
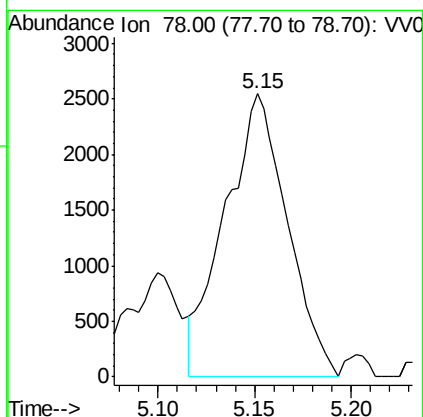
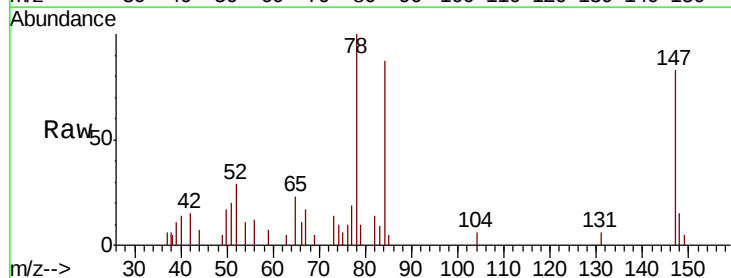
Instrument :  
MSVOA\_V  
ClientSampled :  
BF2P3

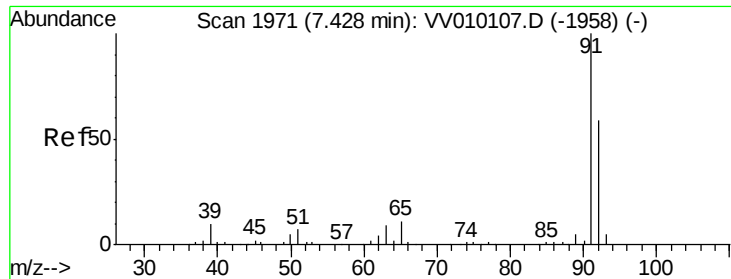
Tgt Ion: 83 Resp: 2521  
Ion Ratio Lower Upper  
83 100  
85 61.5 46.4 86.2



#34  
Benzene  
Concen: 0.596 ug/L  
RT: 5.15 min Scan# 1263  
Delta R.T. 0.00 min  
Lab File: VV010112.D  
Acq: 04 Apr 2019 16:32

Tgt Ion: 78 Resp: 5732





#44

Toluene

Concen: 2.072 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010112.D

Acq: 04 Apr 2019 16:32

Instrument :

MSVOA\_V

ClientSampled :

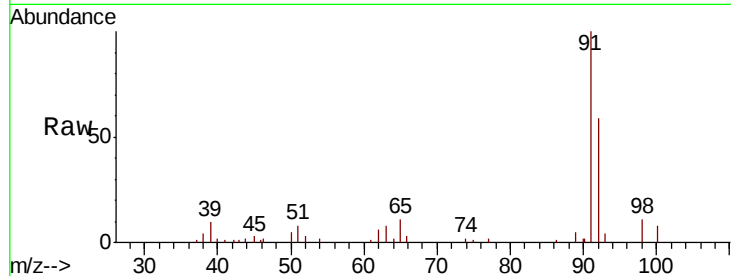
BF2P3

Tgt Ion: 91 Resp: 22364

Ion Ratio Lower Upper

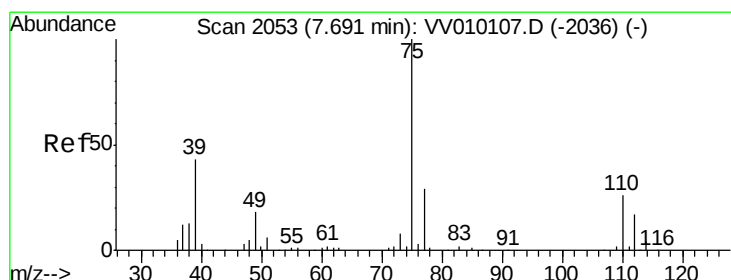
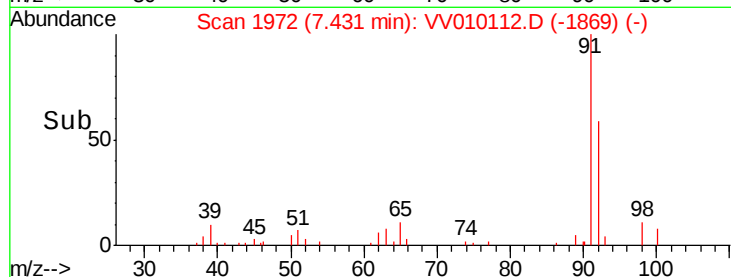
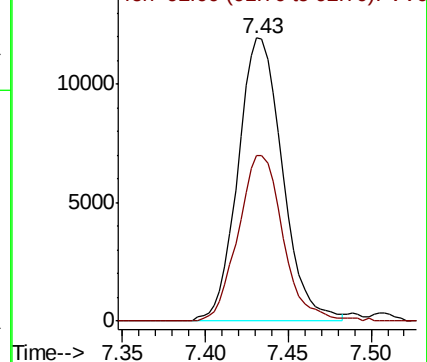
91 100

92 58.6 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 0.539 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.04 min

Lab File: VV010112.D

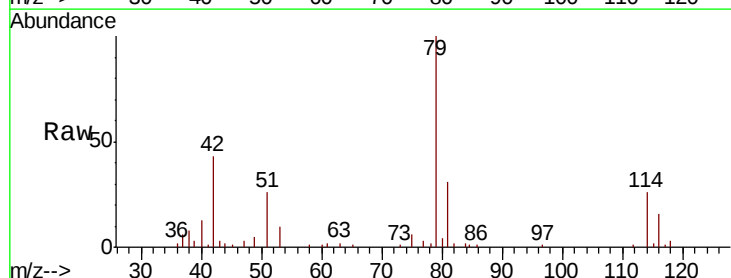
Acq: 04 Apr 2019 16:32

Tgt Ion: 75 Resp: 1614

Ion Ratio Lower Upper

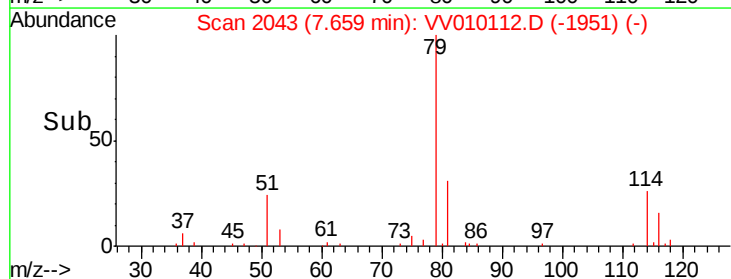
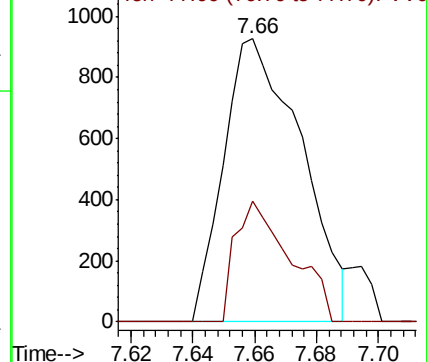
75 100

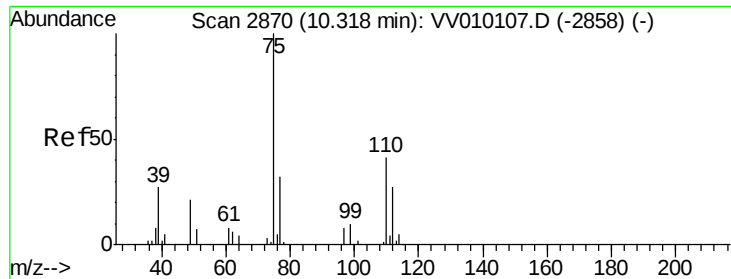
77 42.6 23.5 43.7



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#59  
 1,2,3-Trichloropropane  
 Concen: 6.316 ug/L  
 RT: 11.30 min Scan# 3175  
 Delta R.T. 0.98 min  
 Lab File: VV010112.D  
 Acq: 04 Apr 2019 16:32

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2P3

Tgt Ion: 75 Resp: 12536  
 Ion Ratio Lower Upper  
 75 100  
 77 36.3 25.8 38.8

