

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041619\  
 Data File : VV010340.D  
 Acq On : 16 Apr 2019 18:35  
 Operator : SY/MD  
 Sample : K2402-12  
 Misc : 5.01G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 GAHJ2

Quant Time: Apr 16 23:12:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 16 23:09:02 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 44613    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 42586    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 15053    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 7566     | 14.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 58.92%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 8925     | 20.22    | ug/L | 0.02    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 80.88%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 17038    | 13.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 52.12%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 7668     | 59.00    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 118.00% |
| 24) Chloroform-d               | 4.40   | 84    | 22570    | 22.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 14039    | 24.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 96.76%  |
| 29) Benzene-d6                 | 5.10   | 84    | 40716    | 19.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 79.32%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 13476    | 22.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 88.24%  |
| 37) Toluene-d8                 | 7.36   | 98    | 36073    | 18.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 72.04%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 5385     | 21.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 84.60%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 2863     | 27.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 54.28%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 14139    | 25.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 103.16% |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 13289    | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.64%  |

## Target Compounds

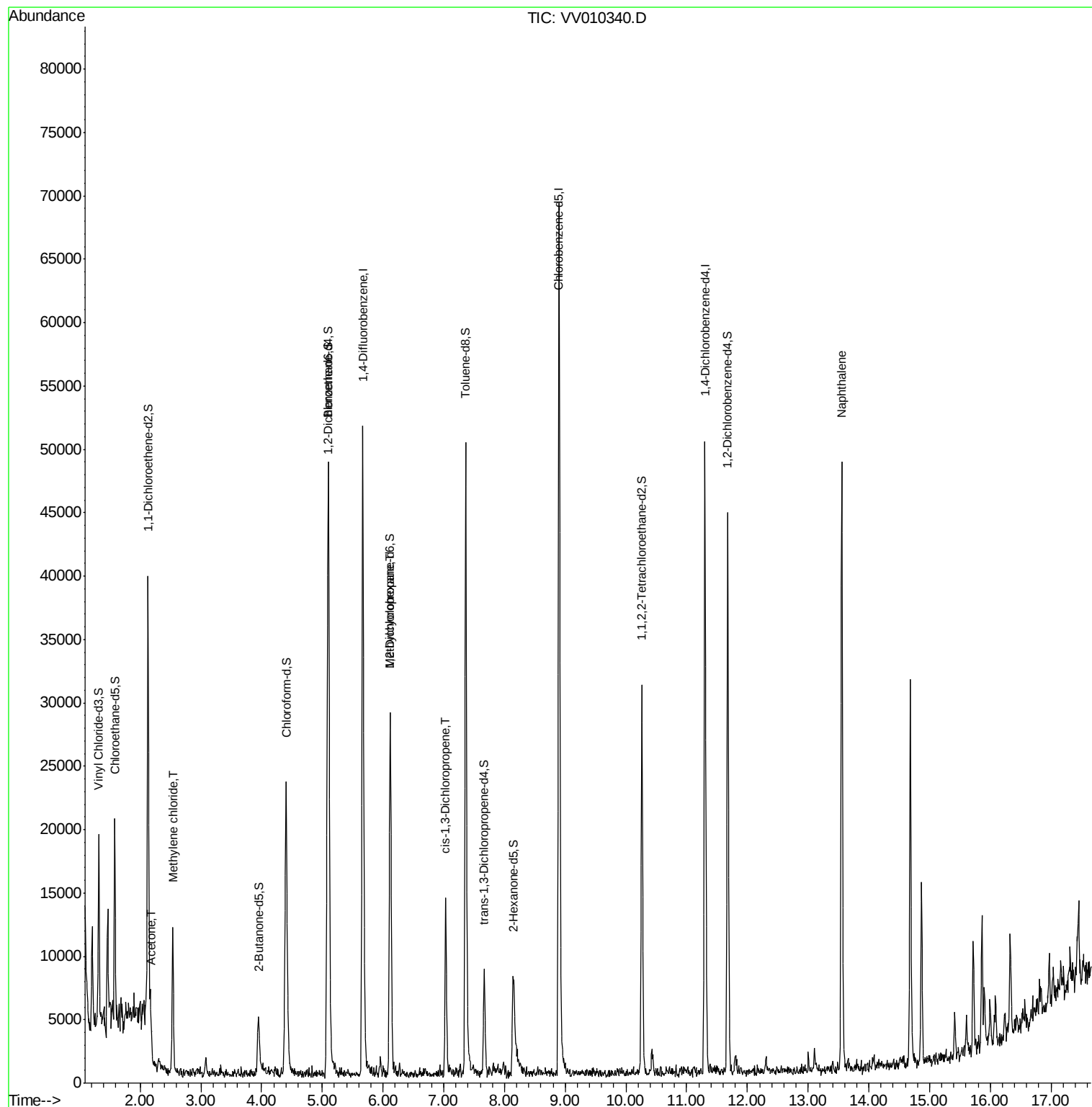
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 13) Acetone                 | 2.18  | 43   | 1276     | 9.189  | ug/L   | 62     |
| 16) Methylene chloride      | 2.54  | 84   | 4140     | 4.738  | ug/L   | 84     |
| 36) Methylcyclohexane       | 6.12  | 83   | 3403     | 3.651  | ug/L # | 23     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75   | 575      | 0.718  | ug/L   | 95     |
| 69) Naphthalene             | 13.55 | 128  | 38709    | 60.108 | ug/L   | 100    |

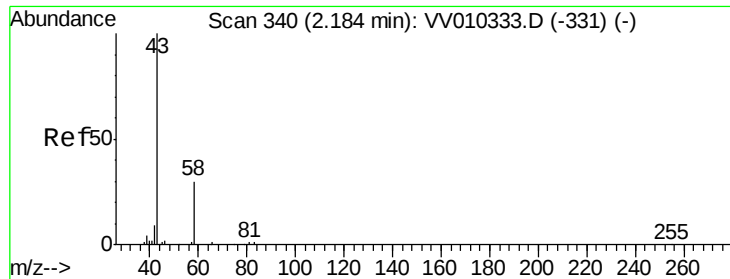
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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GAHJ2

Quant Time: Apr 16 23:12:10 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041019S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 16 23:09:02 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 9.189 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV010340.D

Acq: 16 Apr 2019 18:35

Instrument :

MSVOA\_V

ClientSampleId :

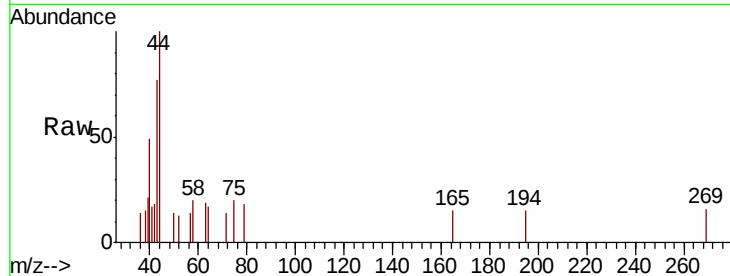
GAHJ2

Tgt Ion: 43 Resp: 1276

Ion Ratio Lower Upper

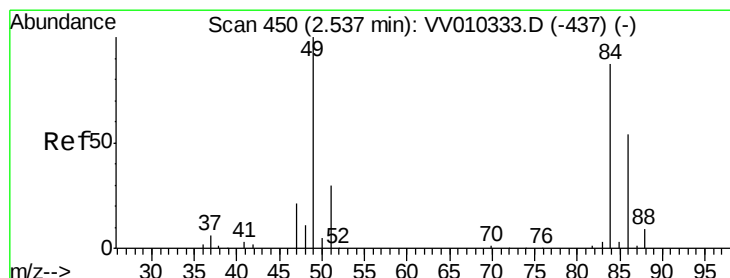
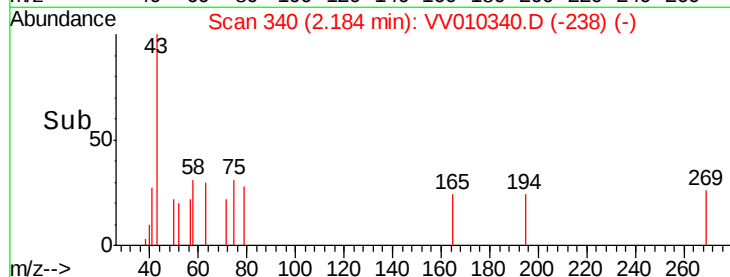
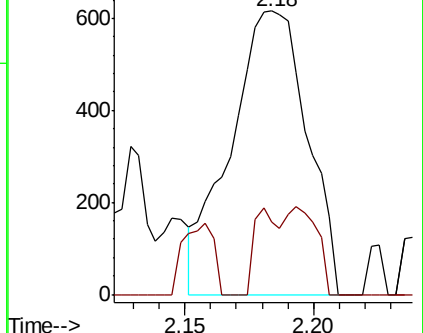
43 100

58 9.9 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV010333.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010333.D (-331) (-)



#16

Methylene chloride

Concen: 4.738 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV010340.D

Acq: 16 Apr 2019 18:35

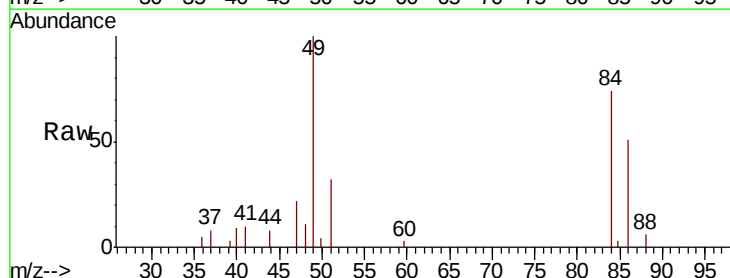
Tgt Ion: 84 Resp: 4140

Ion Ratio Lower Upper

84 100

49 135.9 79.9 148.5

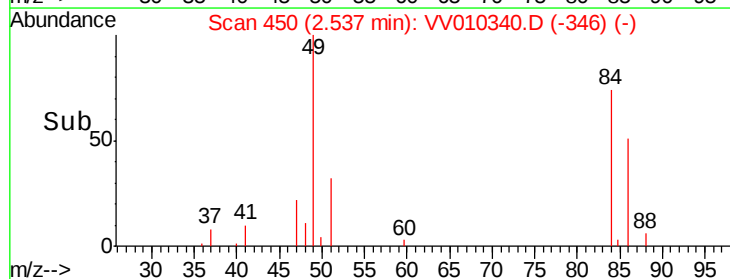
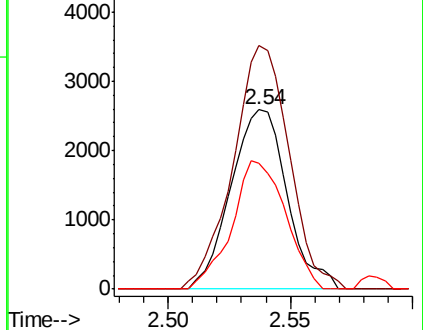
86 70.0 44.5 82.7

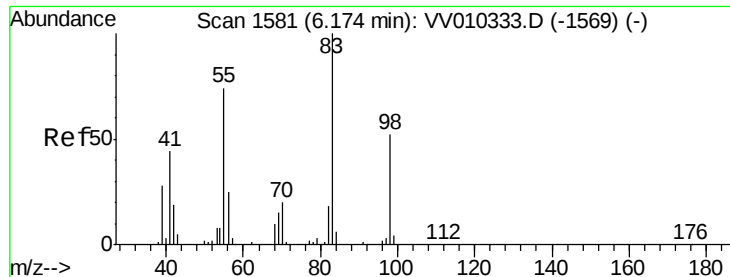


Abundance Ion 84.00 (83.70 to 84.70): VV010333.D (-437) (-)

Ion 49.00 (48.70 to 49.70): VV010333.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV010333.D (-437) (-)

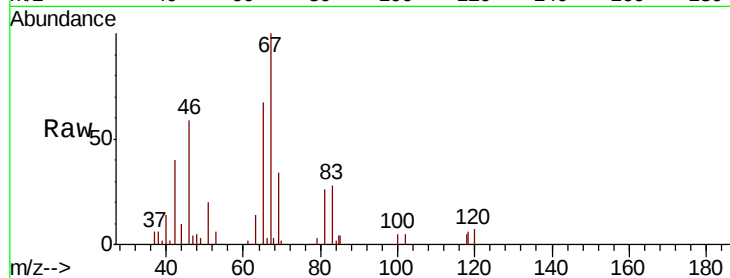




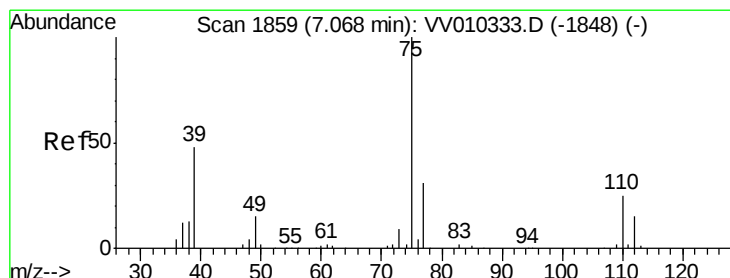
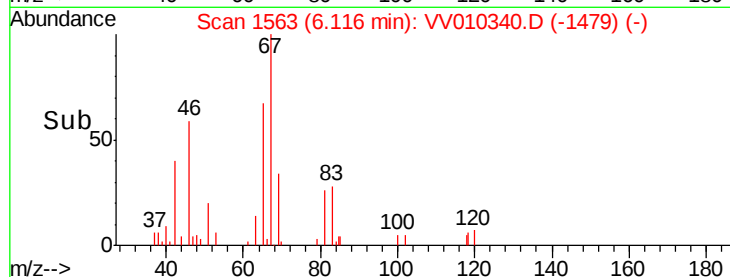
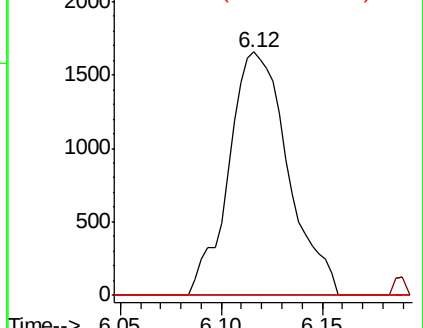
#36  
Methylcyclohexane  
Concen: 3.651 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.06 min  
Lab File: VV010340.D  
Acq: 16 Apr 2019 18:35

Instrument :  
MSVOA\_V  
ClientSampleId :  
GAHJ2

Tgt Ion: 83 Resp: 3403  
Ion Ratio Lower Upper  
83 100  
55 1.4 55.7 83.5#  
98 2.2 39.4 59.2#

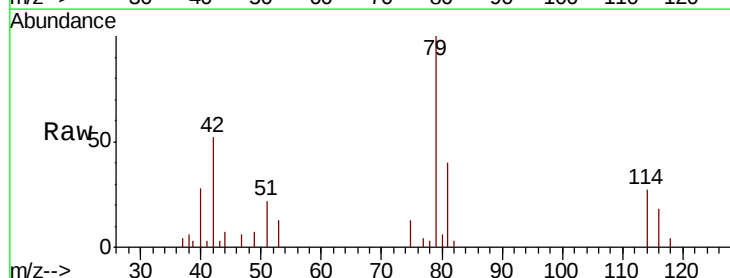


Abundance Ion 83.00 (82.70 to 83.70): VV0  
Ion 55.00 (54.70 to 55.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

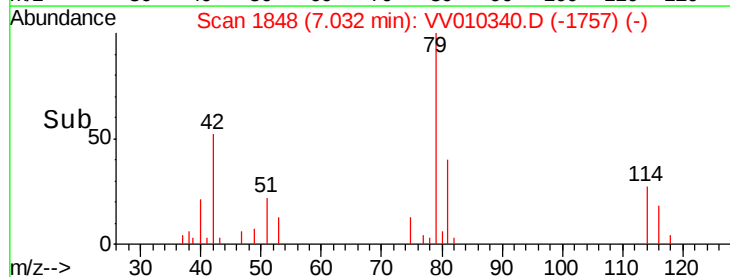
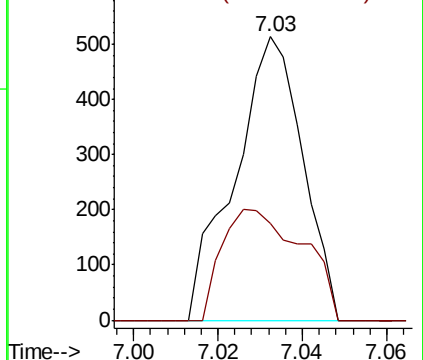


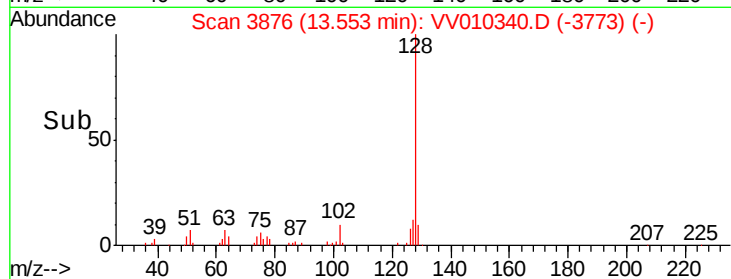
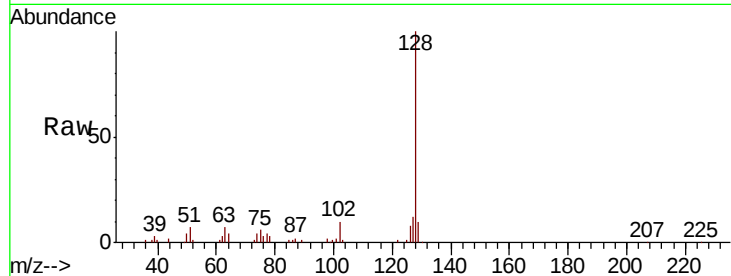
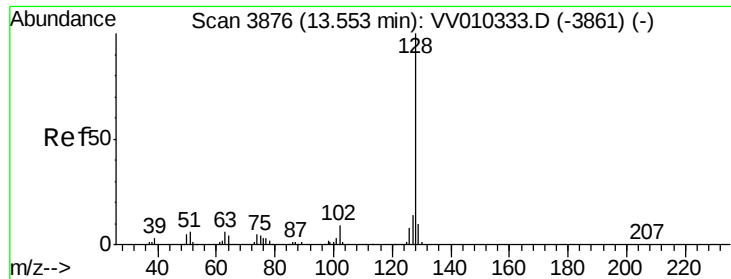
#42  
cis-1,3-Dichloropropene  
Concen: 0.718 ug/L  
RT: 7.03 min Scan# 1848  
Delta R.T. -0.04 min  
Lab File: VV010340.D  
Acq: 16 Apr 2019 18:35

Tgt Ion: 75 Resp: 575  
Ion Ratio Lower Upper  
75 100  
77 34.1 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VV0  
Ion 77.00 (76.70 to 77.70): VV0





#69

Naphthalene

Concen: 60.108 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010340.D

Acq: 16 Apr 2019 18:35

Instrument :

MSVOA\_V

ClientSampleId :

GAHJ2

Tgt Ion:128 Resp: 38709

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.4

127 13.3 10.6 15.8

