

Data File : VV009067.D  
Acq On : 19 Dec 2018 23:58  
Operator : SY/MD  
Sample : J6471-08  
Misc : 5.87G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H17

Quant Time: Dec 20 03:49:56 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Dec 20 03:44:50 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 186068   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 163309   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67269    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 44388    | 23.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 49706    | 34.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 139.76% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 85776    | 17.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 71.28%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 30205    | 43.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.18%  |
| 24) Chloroform-d               | 4.40   | 84    | 113171   | 25.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.20% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 65026    | 26.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 106.56% |
| 29) Benzene-d6                 | 5.10   | 84    | 227543   | 24.95    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.80%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 68261    | 26.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 106.92% |
| 37) Toluene-d8                 | 7.36   | 98    | 204640   | 24.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.96%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 27196    | 24.24    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 96.96%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 18367    | 39.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 78.52%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 47311    | 22.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 88.36%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 64268    | 25.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.84% |

#### Target Compounds

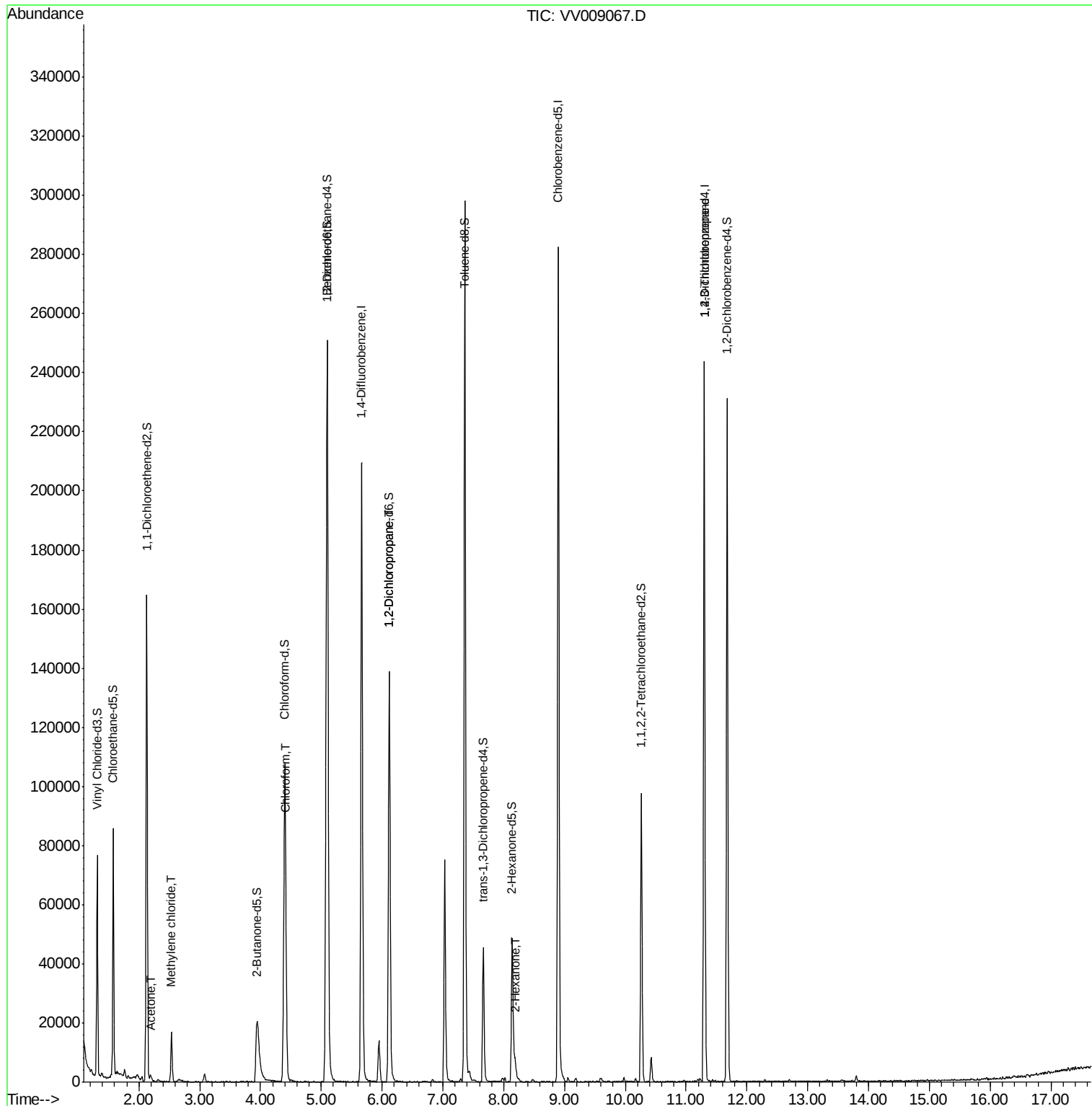
|                            |       |    |      |              | Qvalue |
|----------------------------|-------|----|------|--------------|--------|
| 13) Acetone                | 2.20  | 43 | 1900 | 1.840 ug/L   | 66     |
| 16) Methylene chloride     | 2.53  | 84 | 7099 | 2.266 ug/L   | 99     |
| 25) Chloroform             | 4.42  | 83 | 3348 | 0.742 ug/L # | 63     |
| 40) 1,2-Dichloropropane    | 6.12  | 63 | 7522 | 3.203 ug/L # | 85     |
| 49) 2-Hexanone             | 8.19  | 43 | 2950 | 2.247 ug/L # | 96     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 7385 | 4.035 ug/L   | 90     |

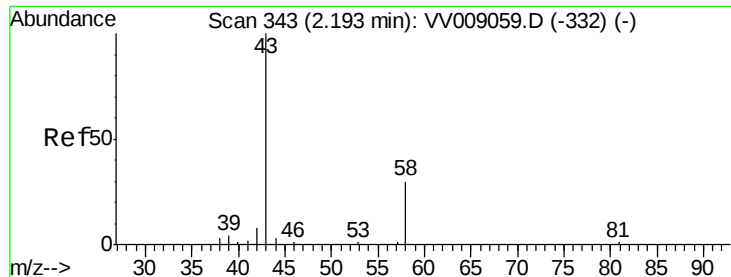
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 1.840 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.01 min

Lab File: VV009067.D

Acq: 19 Dec 2018 23:58

Instrument :

MSVOA\_V

ClientSampled :

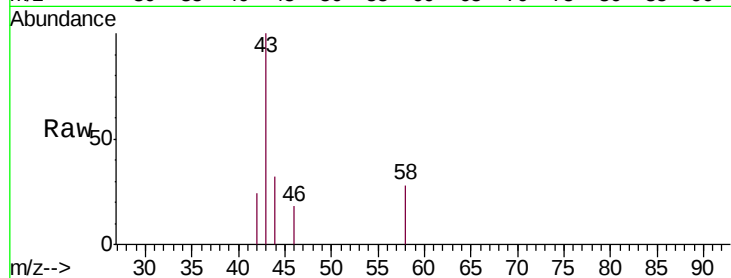
F9H17

Tgt Ion: 43 Resp: 1900

Ion Ratio Lower Upper

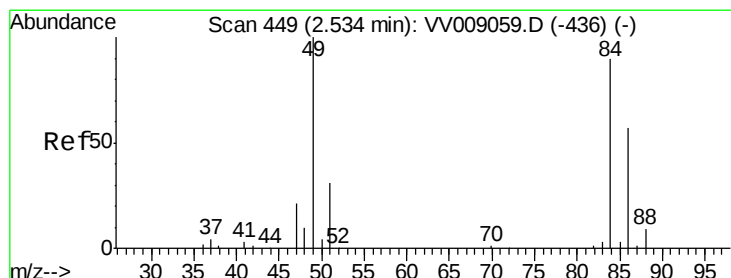
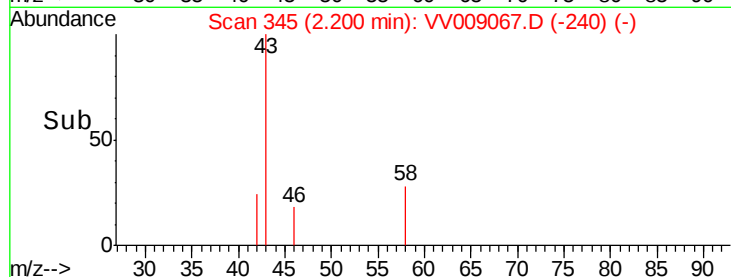
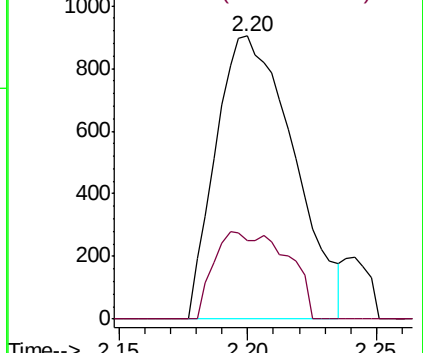
43 100

58 13.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV009067.D (-240) (-)

Ion 58.00 (57.70 to 58.70): VV009067.D (-240) (-)



#16

Methylene chloride

Concen: 2.266 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009067.D

Acq: 19 Dec 2018 23:58

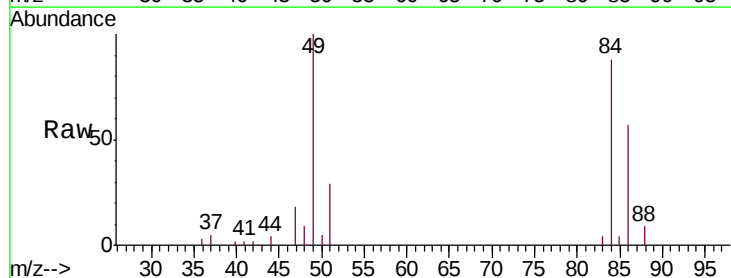
Tgt Ion: 84 Resp: 7099

Ion Ratio Lower Upper

84 100

49 113.9 80.5 149.5

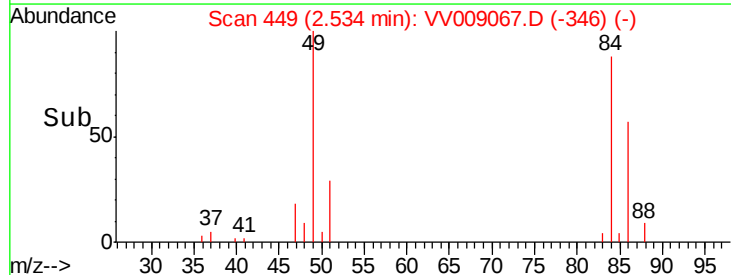
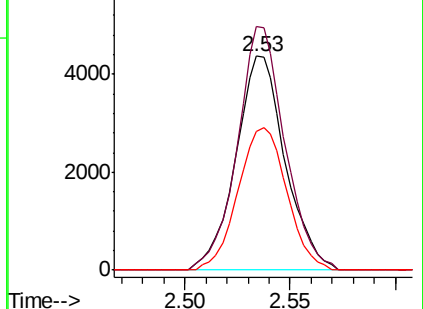
86 65.0 45.5 84.5

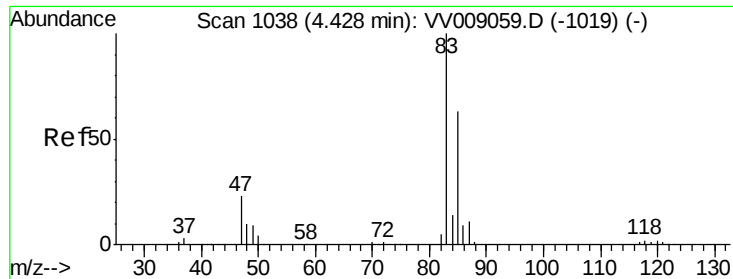


Abundance Ion 84.00 (83.70 to 84.70): VV009067.D (-346) (-)

Ion 49.00 (48.70 to 49.70): VV009067.D (-346) (-)

Ion 86.00 (85.70 to 86.70): VV009067.D (-346) (-)

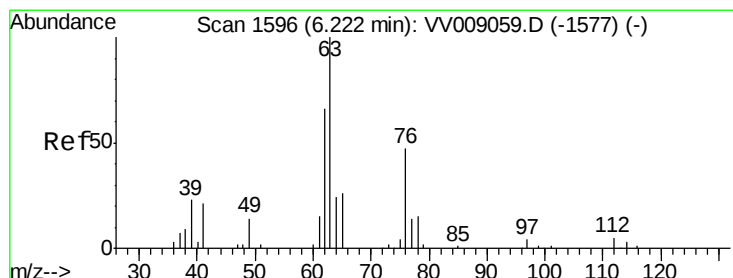
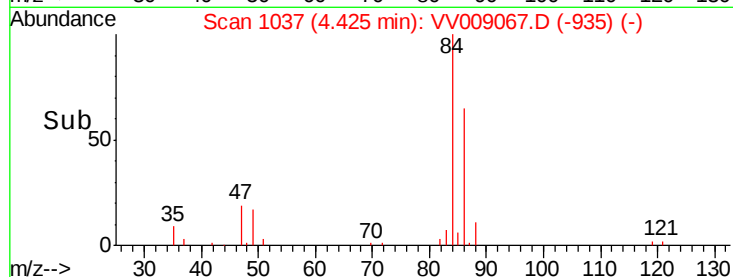
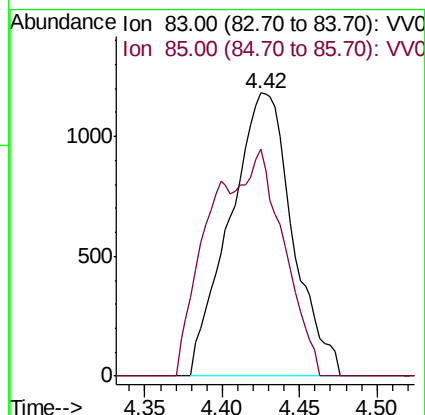
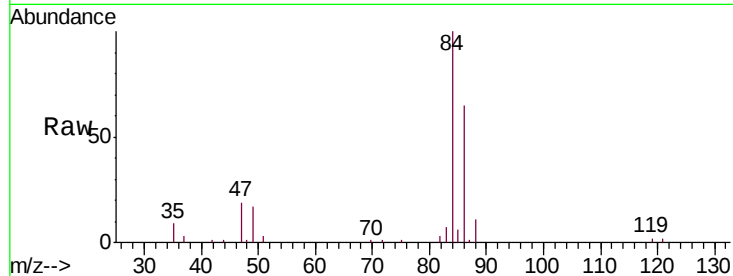




#25  
Chloroform  
Concen: 0.742 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV009067.D  
Acq: 19 Dec 2018 23:58

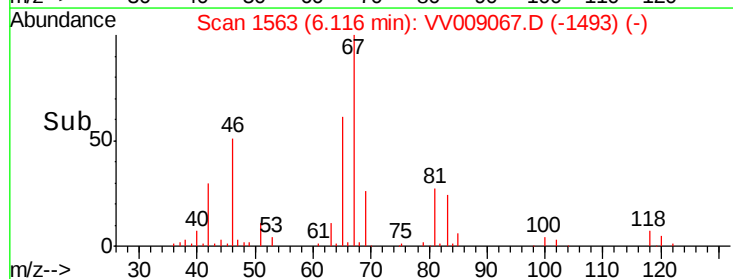
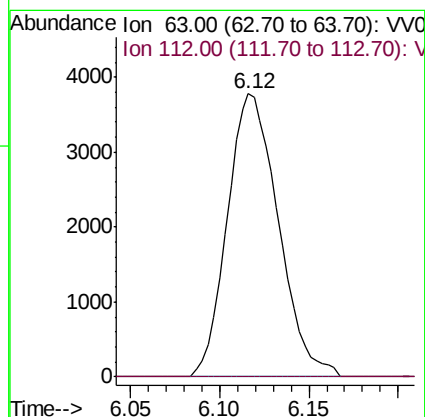
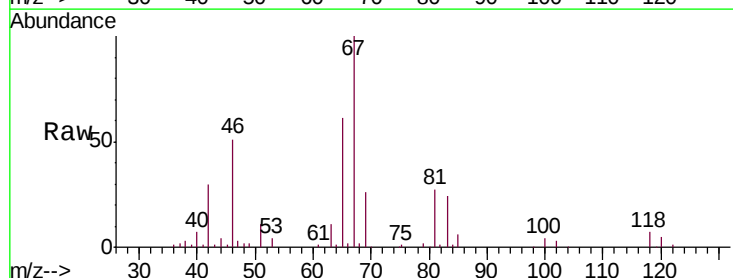
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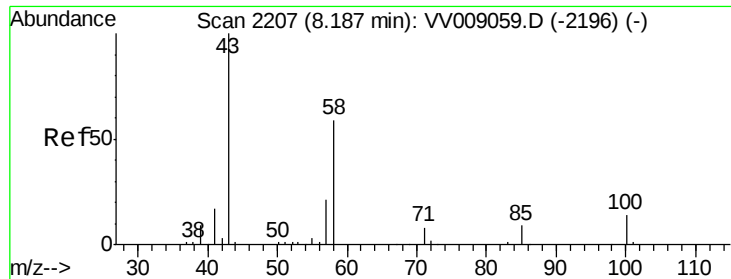
Tgt Ion: 83 Resp: 3348  
Ion Ratio Lower Upper  
83 100  
85 35.6 45.6 84.8#



#40  
1,2-Dichloropropane  
Concen: 3.203 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.11 min  
Lab File: VV009067.D  
Acq: 19 Dec 2018 23:58

Tgt Ion: 63 Resp: 7522  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.8 5.8#

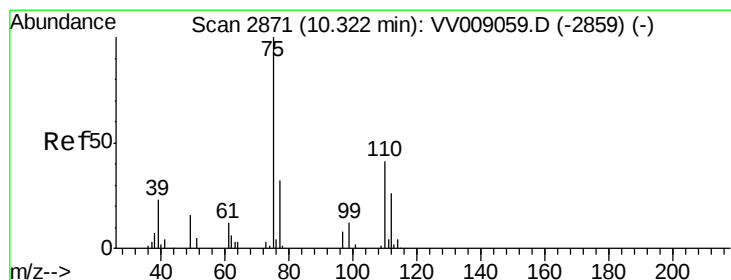
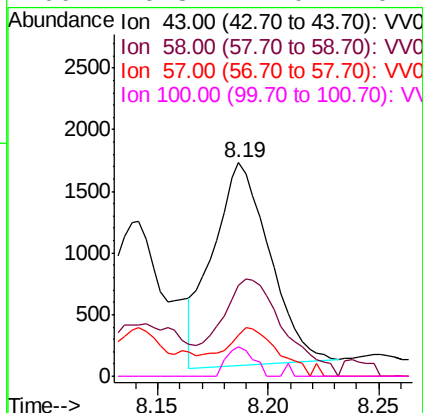
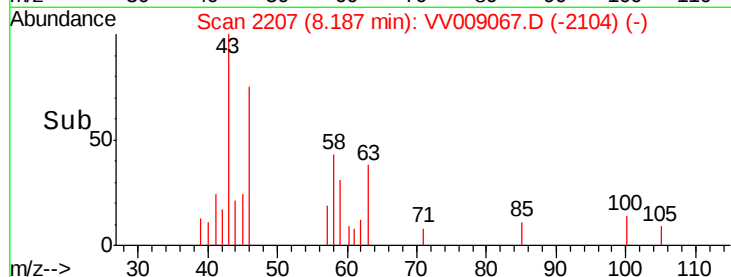
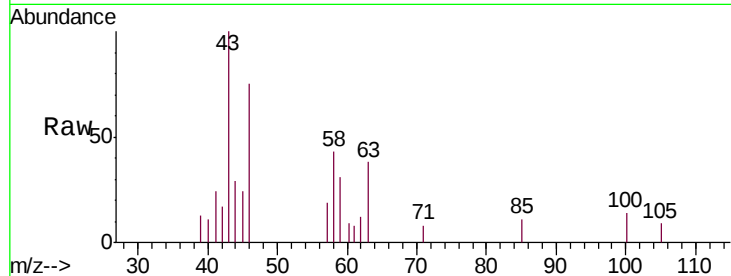




#49  
2-Hexanone  
Concen: 2.247 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. -0.00 min  
Lab File: VV009067.D  
Acq: 19 Dec 2018 23:58

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H17

Tgt Ion: 43 Resp: 2950  
Ion Ratio Lower Upper  
43 100  
58 53.3 43.9 65.9  
57 19.7 15.7 23.5  
100 6.8 11.0 16.4#



#59  
1,2,3-Trichloropropane  
Concen: 4.035 ug/L  
RT: 11.30 min Scan# 3174  
Delta R.T. 0.97 min  
Lab File: VV009067.D  
Acq: 19 Dec 2018 23:58

Tgt Ion: 75 Resp: 7385  
Ion Ratio Lower Upper  
75 100  
77 37.7 25.6 38.4

