

Data File : VV009092.D  
Acq On : 20 Dec 2018 18:41  
Operator : SY/MD  
Sample : J6471-18  
Misc : 5.95 G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H05

Quant Time: Dec 21 00:30:45 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 00:25:26 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 238249   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 203140   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 74544    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 55403    | 22.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.88%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 59549    | 32.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 130.76% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 111299   | 18.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 72.24%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 29933    | 33.35    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 66.70%  |
| 24) Chloroform-d               | 4.40   | 84    | 151626   | 26.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.88% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 85415    | 27.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.32% |
| 29) Benzene-d6                 | 5.10   | 84    | 303350   | 26.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 106.96% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 90078    | 28.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 113.44% |
| 37) Toluene-d8                 | 7.36   | 98    | 271890   | 25.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 103.60% |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 34336    | 24.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 98.40%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 18081    | 31.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 62.14%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 55885    | 20.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 83.88%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 72093    | 25.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 103.08% |

#### Target Compounds

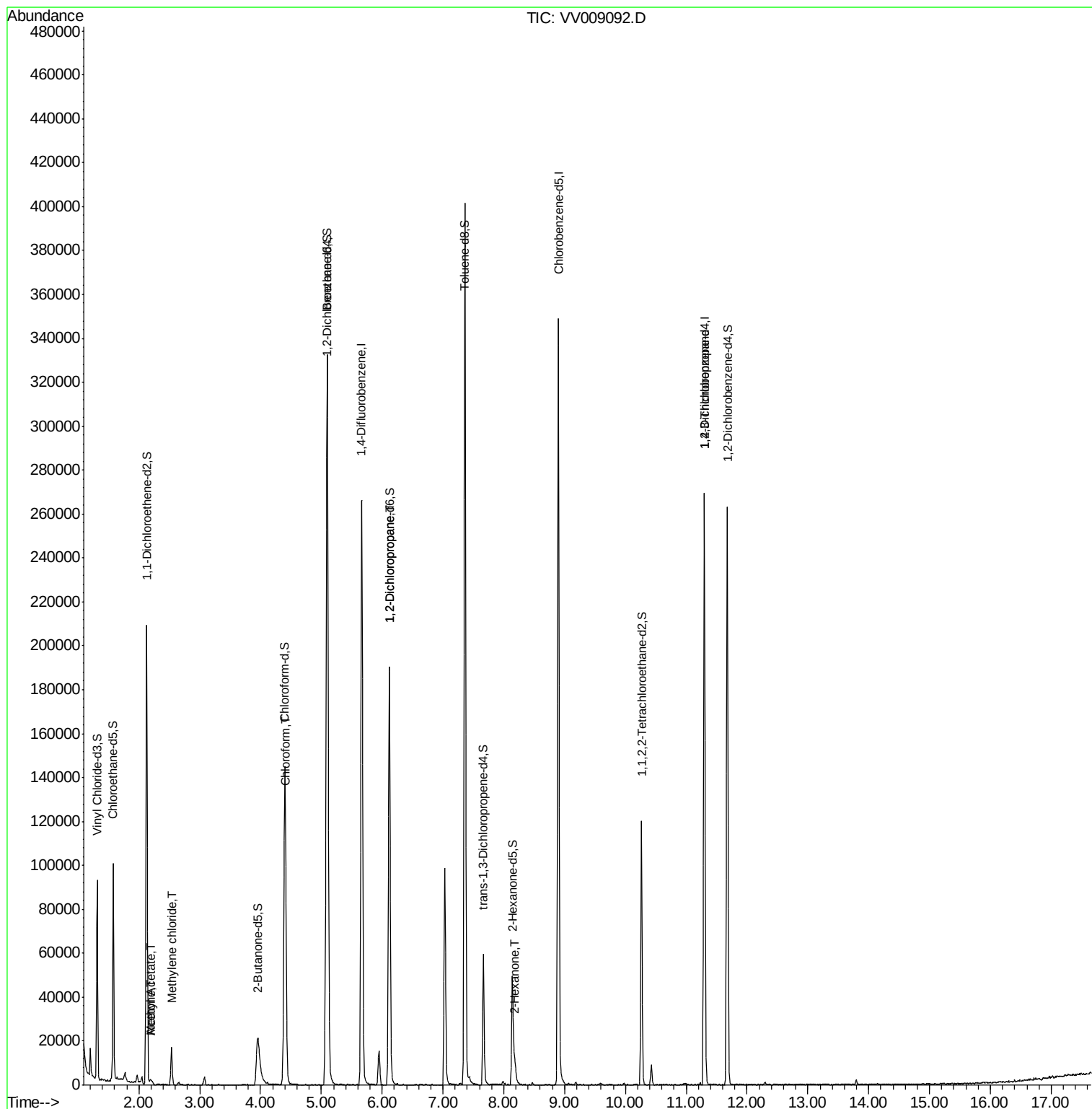
|                            |       |    |       |              | Qvalue |
|----------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                | 2.21  | 43 | 2329  | 1.761 ug/L   | 69     |
| 15) Methyl Acetate         | 2.21  | 43 | 2329  | 1.389 ug/L # | 51     |
| 16) Methylene chloride     | 2.53  | 84 | 7354  | 1.833 ug/L   | 92     |
| 25) Chloroform             | 4.42  | 83 | 4535  | 0.785 ug/L # | 65     |
| 40) 1,2-Dichloropropane    | 6.12  | 63 | 10437 | 3.573 ug/L # | 85     |
| 49) 2-Hexanone             | 8.19  | 43 | 5202  | 3.185 ug/L # | 79     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 7923  | 3.480 ug/L   | 89     |

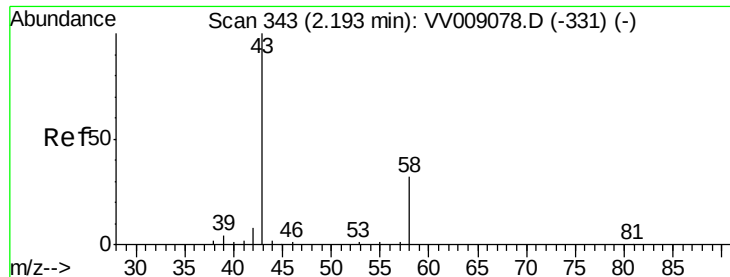
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 1.761 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

Lab File: VV009092.D

Acq: 20 Dec 2018 18:41

Instrument :

MSVOA\_V

ClientSampleId :

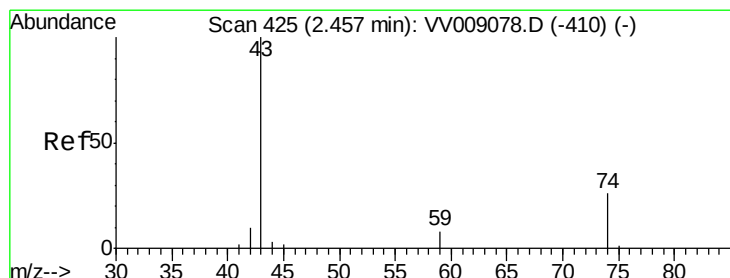
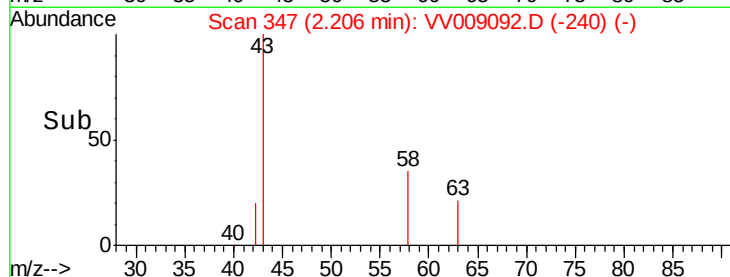
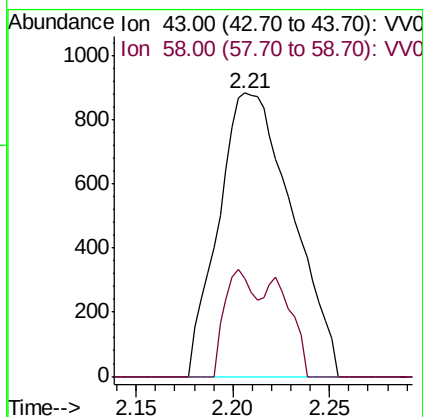
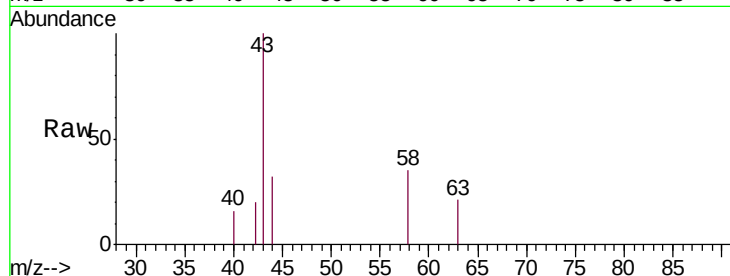
F9H05

Tgt Ion: 43 Resp: 2329

Ion Ratio Lower Upper

43 100

58 15.3 0.0 65.4



#15

Methyl Acetate

Concen: 1.389 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.25 min

Lab File: VV009092.D

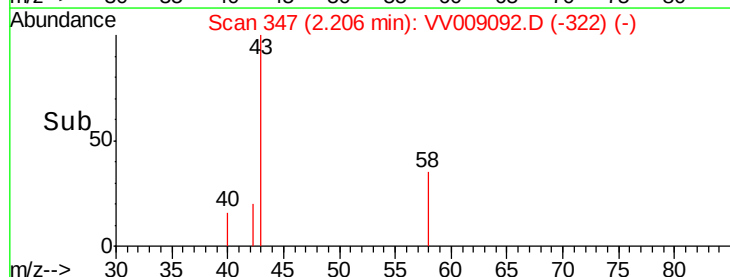
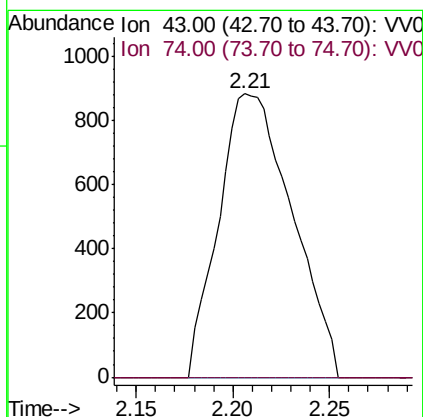
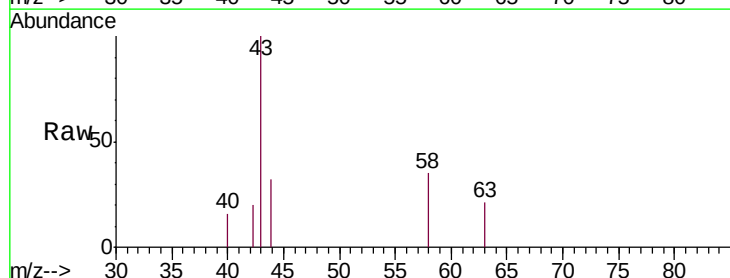
Acq: 20 Dec 2018 18:41

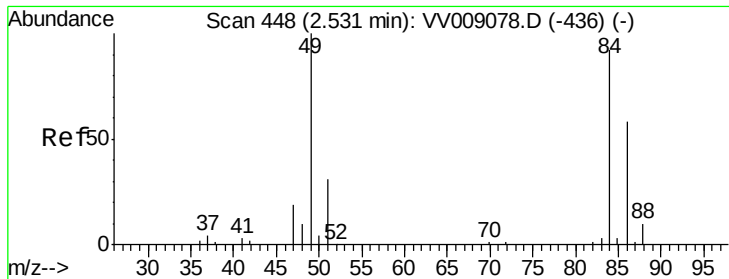
Tgt Ion: 43 Resp: 2329

Ion Ratio Lower Upper

43 100

74 0.0 19.7 29.5#

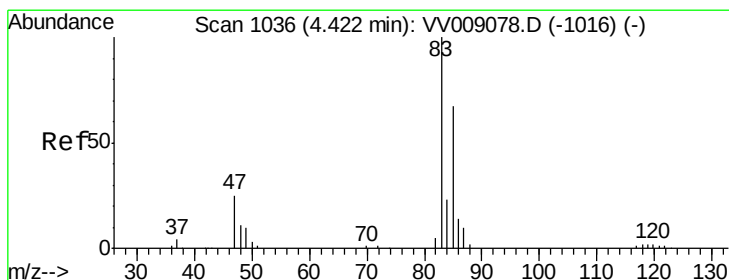
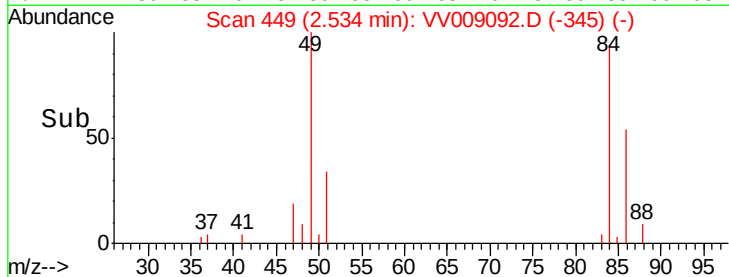
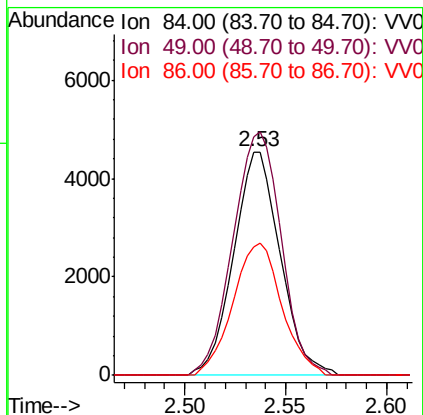
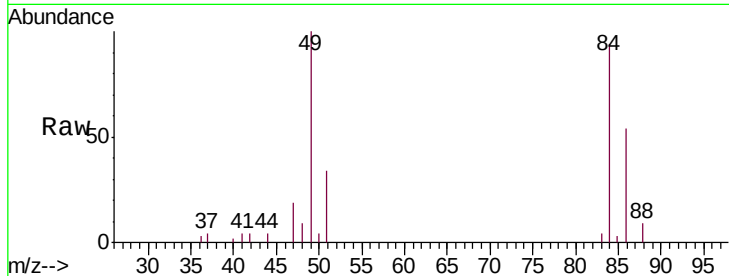




#16  
Methylene chloride  
Concen: 1.833 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: VV009092.D  
Acq: 20 Dec 2018 18:41

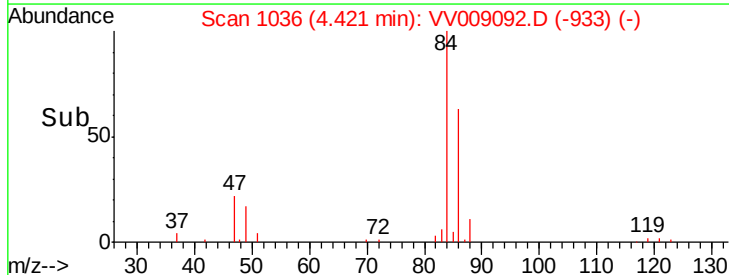
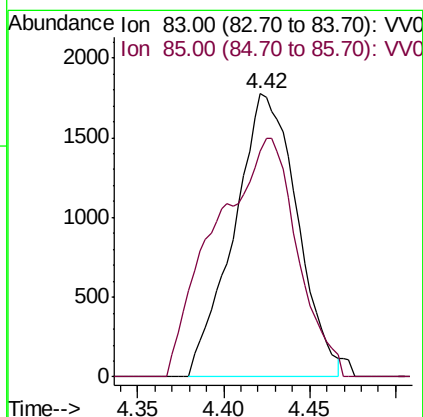
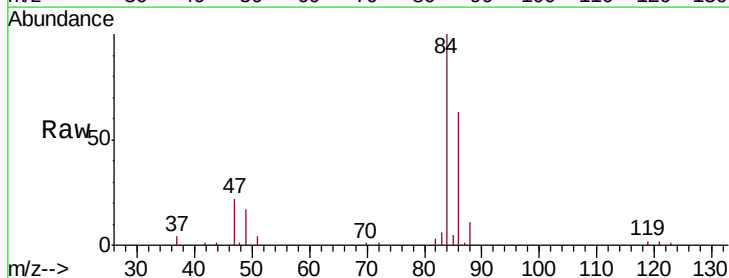
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H05

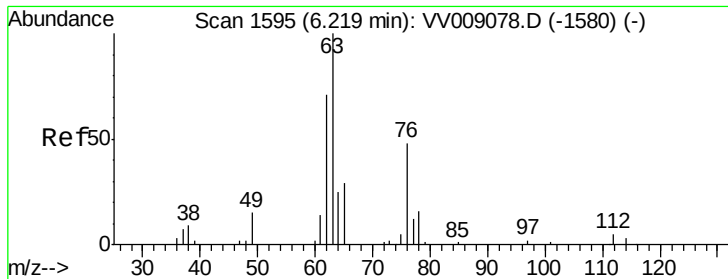
Tgt Ion: 84 Resp: 7354  
Ion Ratio Lower Upper  
84 100  
49 106.7 80.5 149.5  
86 57.8 45.5 84.5



#25  
Chloroform  
Concen: 0.785 ug/L  
RT: 4.42 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: VV009092.D  
Acq: 20 Dec 2018 18:41

Tgt Ion: 83 Resp: 4535  
Ion Ratio Lower Upper  
83 100  
85 37.4 45.6 84.8#

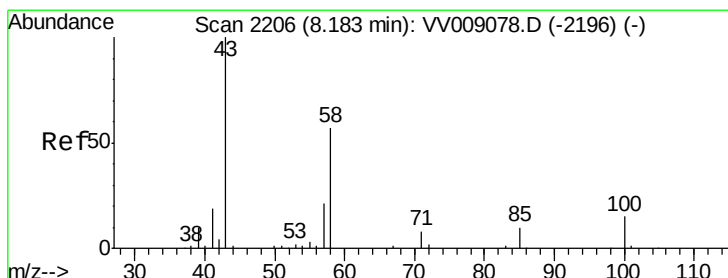
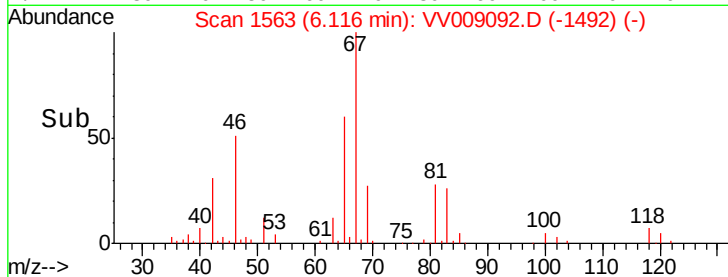
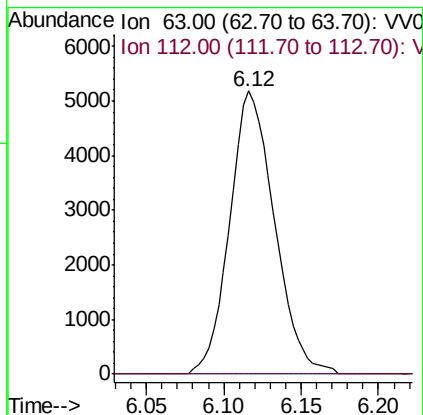
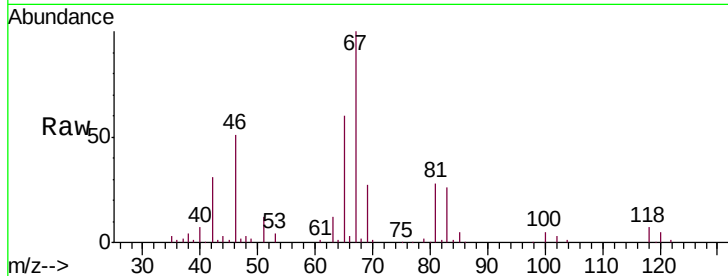




#40  
 1,2-Dichloropropane  
 Concen: 3.573 ug/L  
 RT: 6.12 min Scan# 1563  
 Delta R.T. -0.10 min  
 Lab File: VV009092.D  
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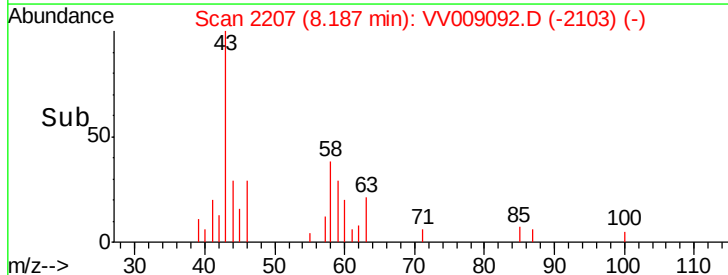
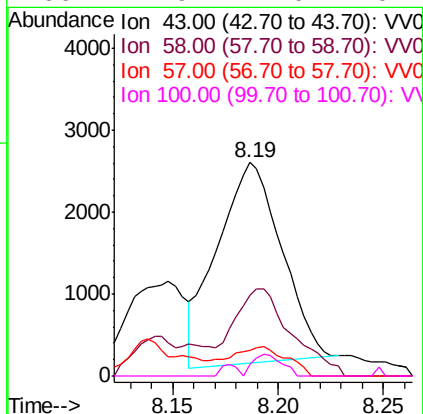
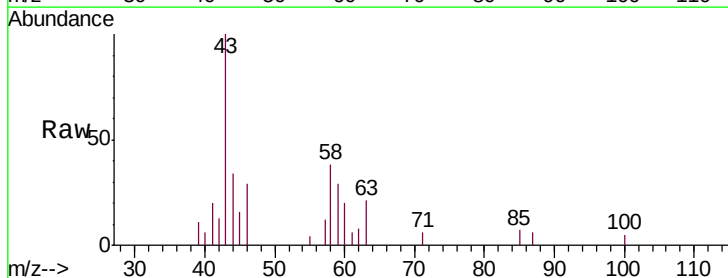
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9H05

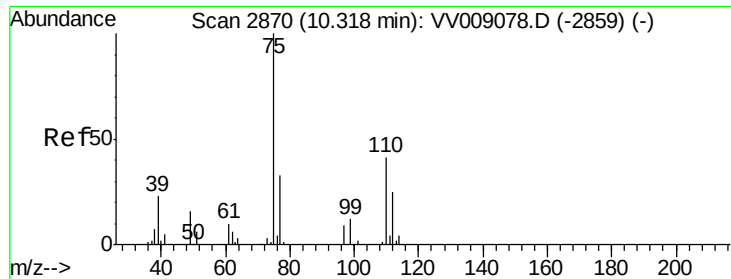
Tgt Ion: 63 Resp: 10437  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.8 5.8#



#49  
 2-Hexanone  
 Concen: 3.185 ug/L  
 RT: 8.19 min Scan# 2207  
 Delta R.T. 0.00 min  
 Lab File: VV009092.D  
 Acq: 20 Dec 2018 18:41

Tgt Ion: 43 Resp: 5202  
 Ion Ratio Lower Upper  
 43 100  
 58 38.7 43.9 65.9#  
 57 11.4 15.7 23.5#  
 100 4.9 11.0 16.4#





#59  
 1,2,3-Trichloropropane  
 Concen: 3.480 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.98 min  
 Lab File: VV009092.D  
 Acq: 20 Dec 2018 18:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9H05

Tgt Ion: 75 Resp: 7923  
 Ion Ratio Lower Upper  
 75 100  
 77 38.2 25.6 38.4

