

Data File : VV009933.D  
Acq On : 27 Mar 2019 17:27  
Operator : SY/MD  
Sample : K2085-12  
Misc : 5.17G/10mL/MSVOA\_V/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7T7

Quant Time: Mar 28 05:17:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM032619S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 05:12:38 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 112298   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 125063   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 52070    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35714    | 15.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 62.68%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 50953    | 20.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.80%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 88815    | 14.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 57.00%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 25839    | 60.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 121.70% |
| 24) Chloroform-d               | 4.40   | 84    | 61848    | 21.62    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 86.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 52518    | 30.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 122.00% |
| 29) Benzene-d6                 | 5.10   | 84    | 155886   | 23.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.92%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 52140    | 27.14    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 108.56% |
| 37) Toluene-d8                 | 7.36   | 98    | 135711   | 21.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.32%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 16198    | 20.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 82.44%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 18210    | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.54% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 45891    | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 50759    | 25.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.40% |

#### Target Compounds

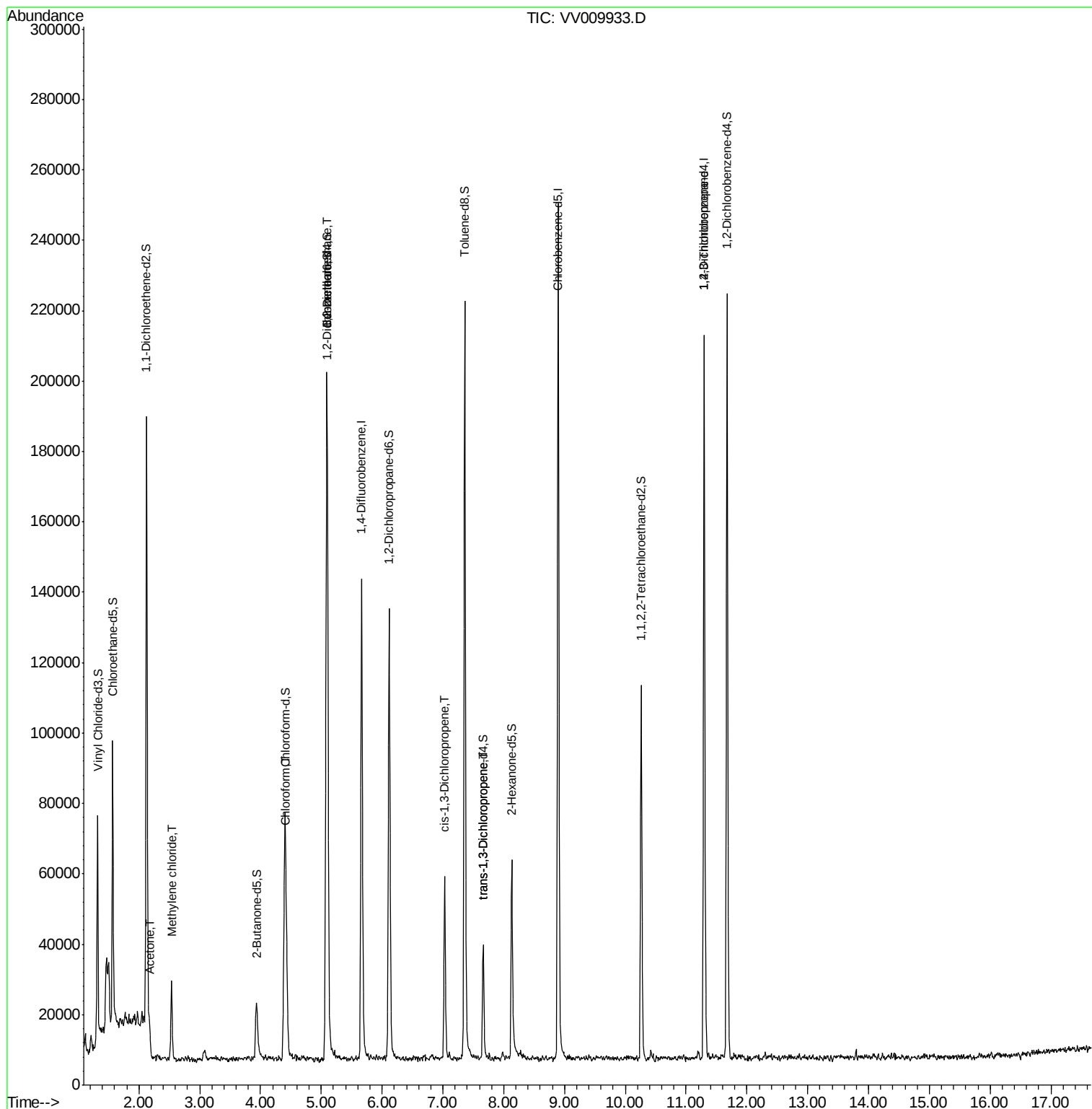
|                               |       |    |       |              | Qvalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                   | 2.18  | 43 | 2020  | 3.142 ug/L   | 73     |
| 16) Methylene chloride        | 2.54  | 84 | 8991  | 4.862 ug/L   | 96     |
| 25) Chloroform                | 4.43  | 83 | 18969 | 6.376 ug/L   | 95     |
| 27) 1,2-Dichloroethane        | 5.10  | 62 | 1218  | 0.578 ug/L # | 75     |
| 42) cis-1,3-Dichloropropene   | 7.03  | 75 | 1514  | 0.605 ug/L # | 33     |
| 45) trans-1,3-Dichloropropene | 7.66  | 75 | 984   | 0.480 ug/L # | 45     |
| 59) 1,2,3-Trichloropropane    | 11.29 | 75 | 7662  | 5.549 ug/L # | 87     |

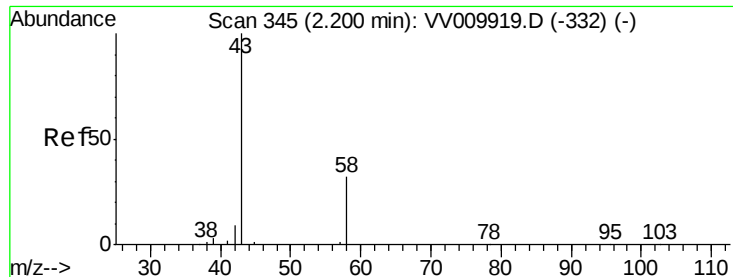
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 3.142 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.02 min

Lab File: VV009933.D

Acq: 27 Mar 2019 17:27

Instrument :

MSVOA\_V

ClientSampleId :

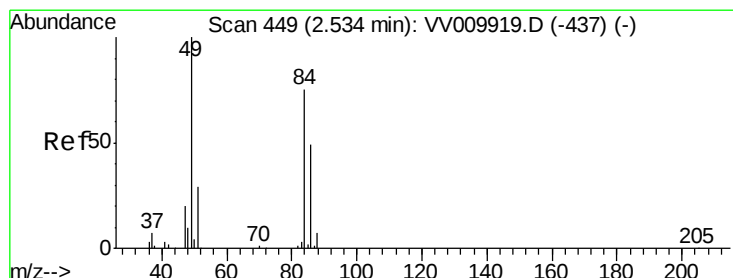
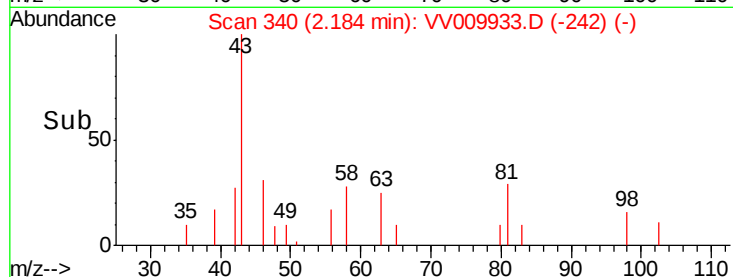
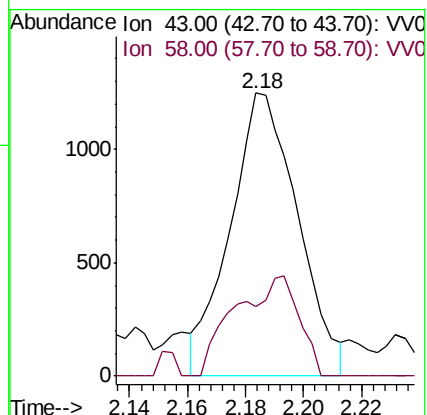
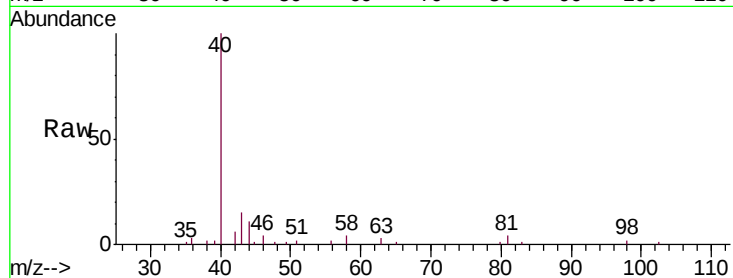
BF7T7

Tgt Ion: 43 Resp: 2020

Ion Ratio Lower Upper

43 100

58 15.3 0.0 59.4



#16

Methylene chloride

Concen: 4.862 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009933.D

Acq: 27 Mar 2019 17:27

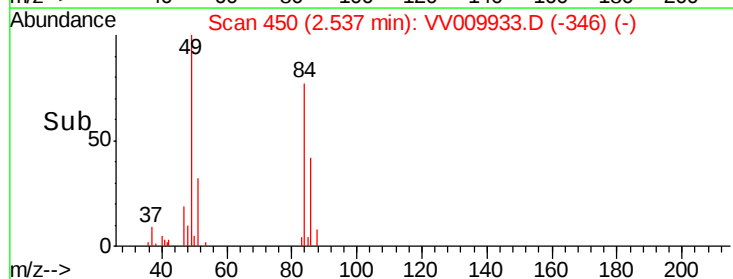
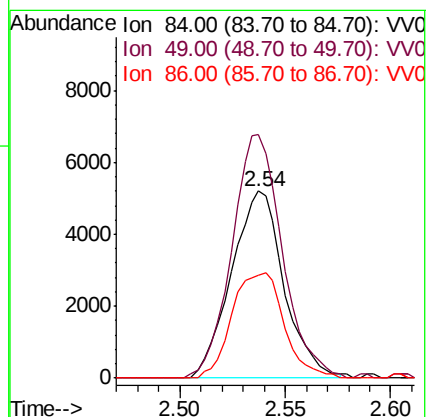
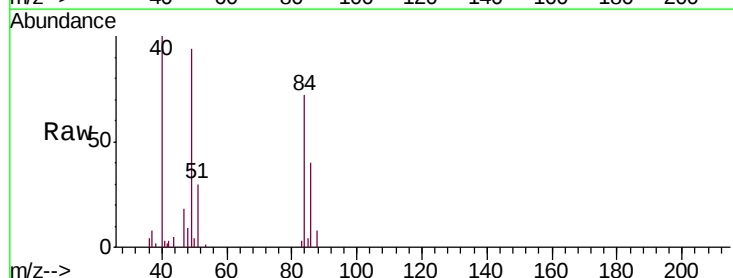
Tgt Ion: 84 Resp: 8991

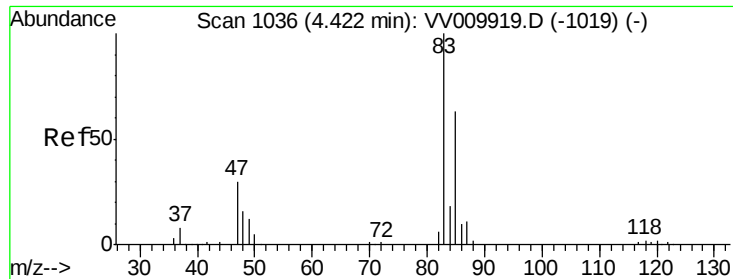
Ion Ratio Lower Upper

84 100

49 130.0 90.4 167.8

86 54.8 44.0 81.6

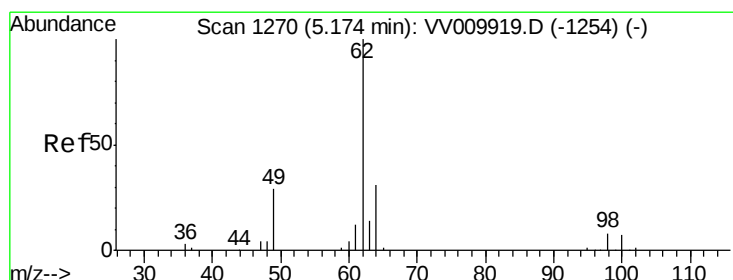
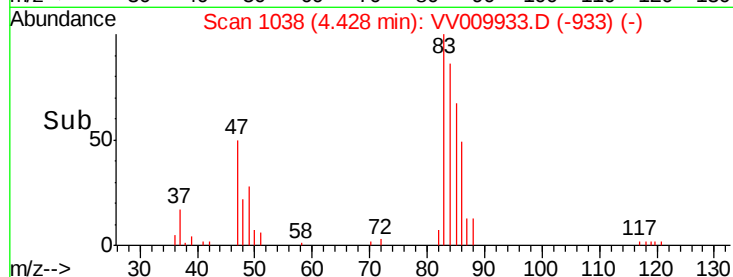
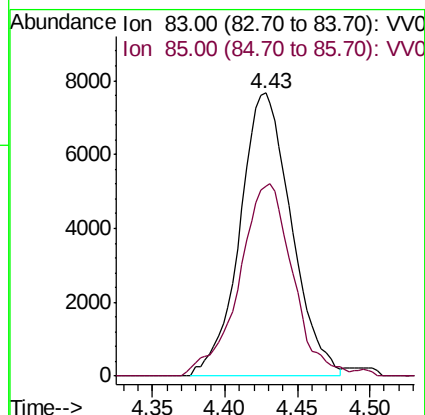
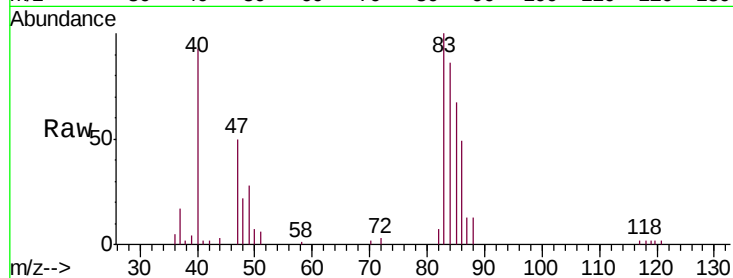




#25  
Chloroform  
Concen: 6.376 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.01 min  
Lab File: VV009933.D  
Acq: 27 Mar 2019 17:27

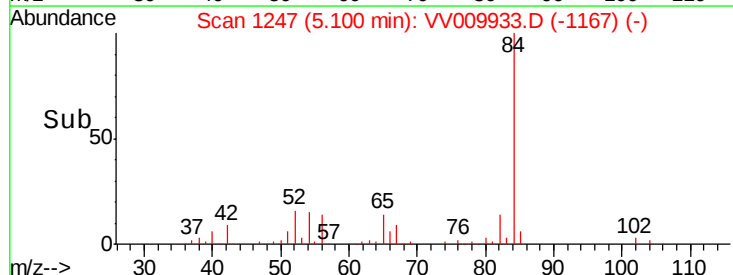
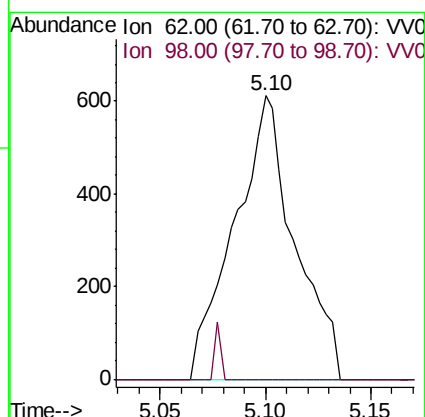
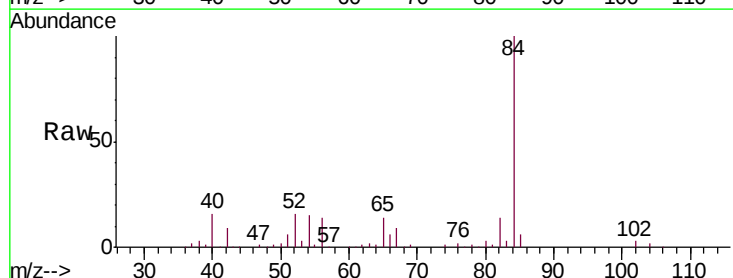
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7T7

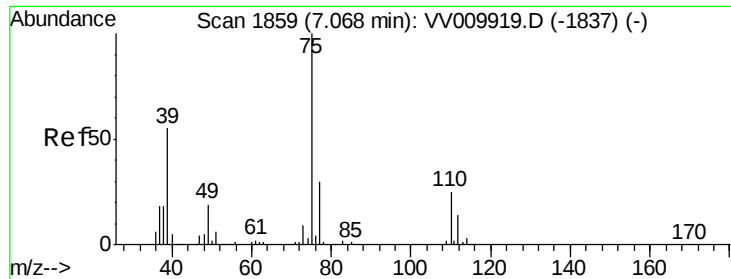
Tgt Ion: 83 Resp: 18969  
Ion Ratio Lower Upper  
83 100  
85 70.2 46.1 85.7



#27  
1,2-Dichloroethane  
Concen: 0.578 ug/L  
RT: 5.10 min Scan# 1247  
Delta R.T. -0.07 min  
Lab File: VV009933.D  
Acq: 27 Mar 2019 17:27

Tgt Ion: 62 Resp: 1218  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.2 10.8#

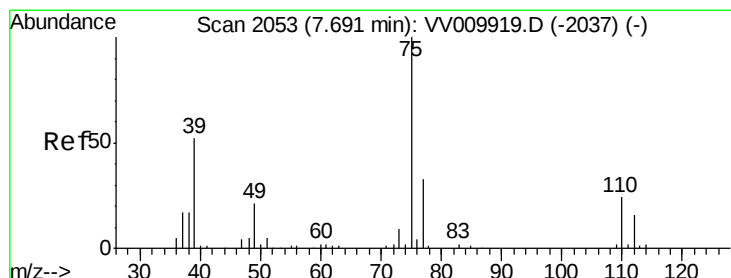
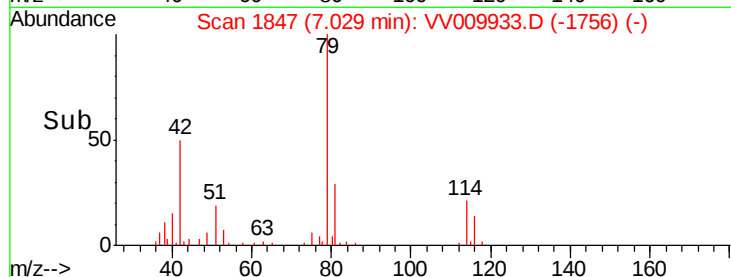
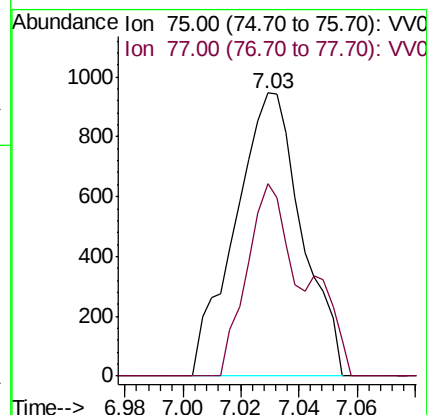
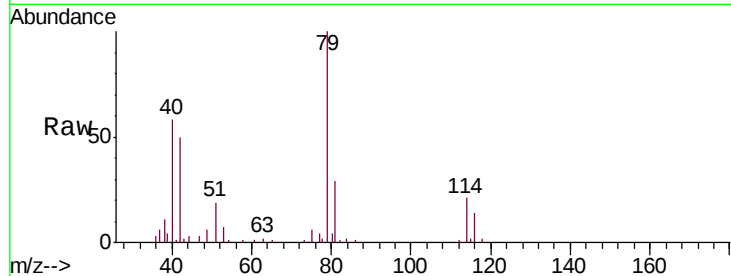




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.605 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV009933.D  
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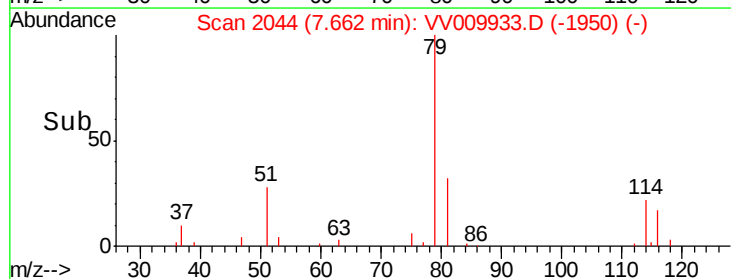
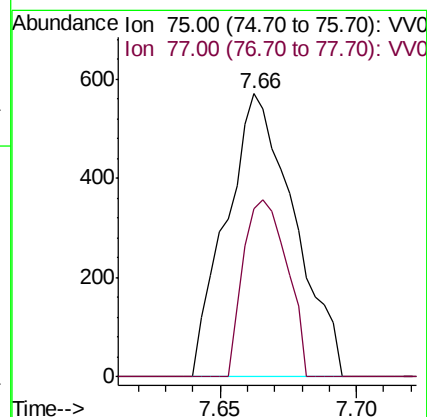
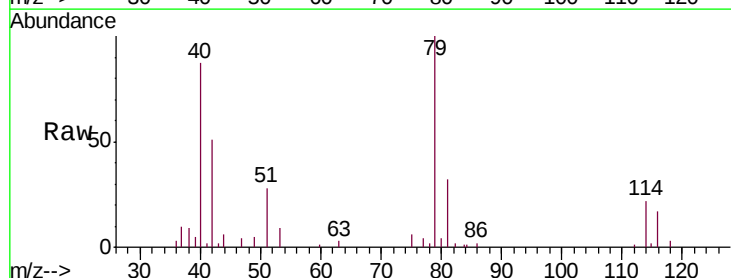
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF7T7

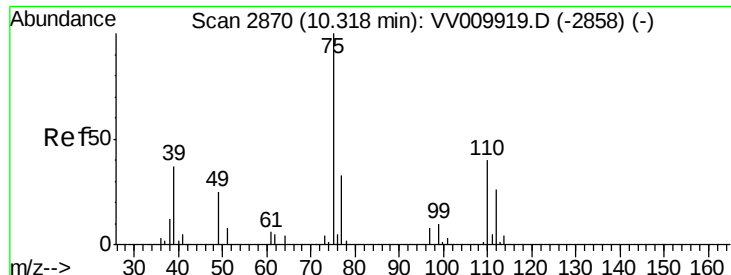
Tgt Ion: 75 Resp: 1514  
 Ion Ratio Lower Upper  
 75 100  
 77 67.9 21.8 40.6#



#45  
 trans-1,3-Dichloropropene  
 Concen: 0.480 ug/L  
 RT: 7.66 min Scan# 2044  
 Delta R.T. -0.03 min  
 Lab File: VV009933.D  
 Acq: 27 Mar 2019 17:27

Tgt Ion: 75 Resp: 984  
 Ion Ratio Lower Upper  
 75 100  
 77 59.5 20.7 38.5#





#59

1,2,3-Trichloropropane

Concen: 5.549 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.97 min

Lab File: VV009933.D

Acq: 27 Mar 2019 17:27

Instrument :

MSVOA\_V

ClientSampleId :

BF7T7

Tgt Ion: 75 Resp: 7662

Ion Ratio Lower Upper

75 100

77 40.0 26.2 39.2#

