

Data File : VV009934.D  
Acq On : 27 Mar 2019 17:53  
Operator : SY/MD  
Sample : K2085-13  
Misc : 4.54G/10mL/MSVOA\_V/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7T8

Quant Time: Mar 28 05:17:47 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  | 105226   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 107658   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 43706    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 47525    | 22.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.04%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 54982    | 23.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.36%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 109770   | 18.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 75.16%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 23970    | 60.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.48% |
| 24) Chloroform-d               | 4.40   | 84    | 61825    | 23.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 92.24%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 50448    | 31.27    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 125.08% |
| 29) Benzene-d6                 | 5.10   | 84    | 146444   | 25.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 103.60% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 47307    | 28.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 114.40% |
| 37) Toluene-d8                 | 7.36   | 98    | 128569   | 24.03    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 96.12%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 15516    | 22.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 91.72%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 13971    | 45.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.50%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 47582    | 29.05    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 116.20% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 48039    | 28.87    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 115.48% |

#### Target Compounds

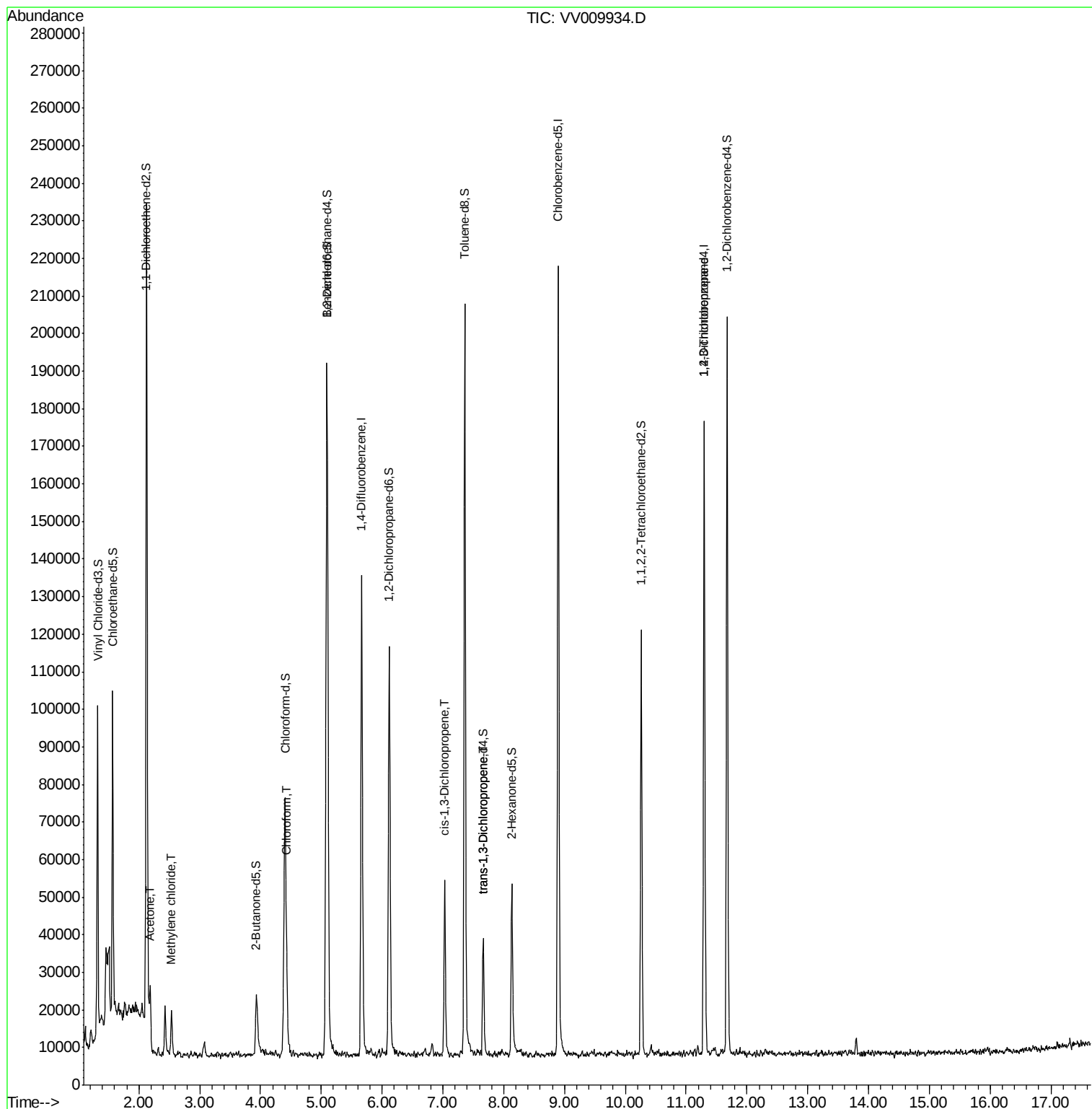
|                               |       |    |       |              | Qvalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                   | 2.19  | 43 | 4304  | 7.144 ug/L   | 99     |
| 16) Methylene chloride        | 2.54  | 84 | 4567  | 2.636 ug/L   | 89     |
| 25) Chloroform                | 4.43  | 83 | 13695 | 4.912 ug/L   | 95     |
| 42) cis-1,3-Dichloropropene   | 7.03  | 75 | 1351  | 0.627 ug/L # | 76     |
| 45) trans-1,3-Dichloropropene | 7.67  | 75 | 973   | 0.552 ug/L # | 79     |
| 59) 1,2,3-Trichloropropane    | 11.30 | 75 | 7149  | 6.015 ug/L   | 89     |

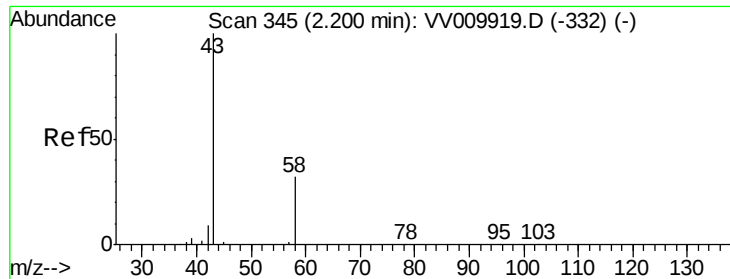
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV009934.D  
Acq On : 27 Mar 2019 17:53  
Operator : SY/MD  
Sample : K2085-13  
Misc : 4.54G/10mL/MSVOA\_V/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7T8

Quant Time: Mar 28 05:17:47 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





#13

Acetone

Concen: 7.144 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV009934.D

Acq: 27 Mar 2019 17:53

Instrument :

MSVOA\_V

ClientSampleId :

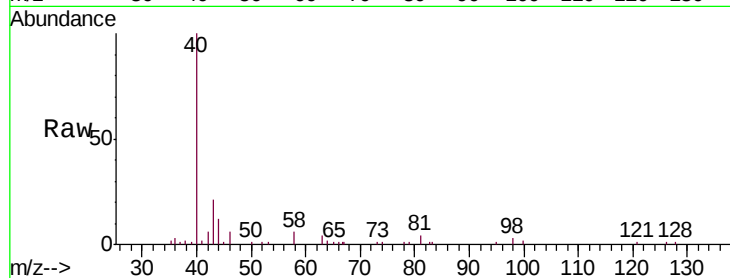
BF7T8

Tgt Ion: 43 Resp: 4304

Ion Ratio Lower Upper

43 100

58 30.5 0.0 59.4

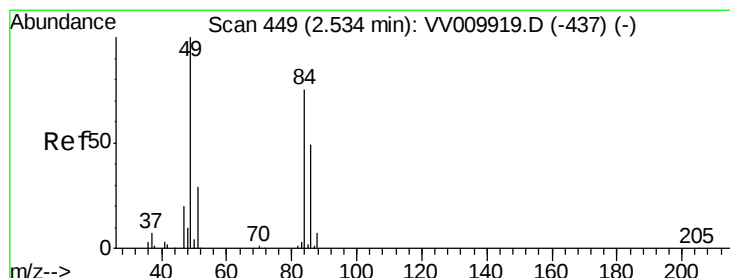
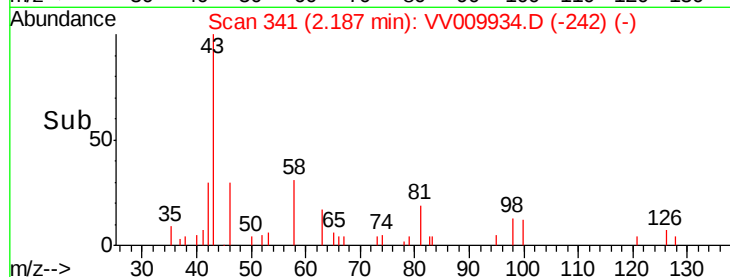


Abundance Ion 43.00 (42.70 to 43.70): VV009919.D (-332) (-)

Ion 58.00 (57.70 to 58.70): VV009919.D (-332) (-)

2.19

Time-->



#16

Methylene chloride

Concen: 2.636 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009934.D

Acq: 27 Mar 2019 17:53

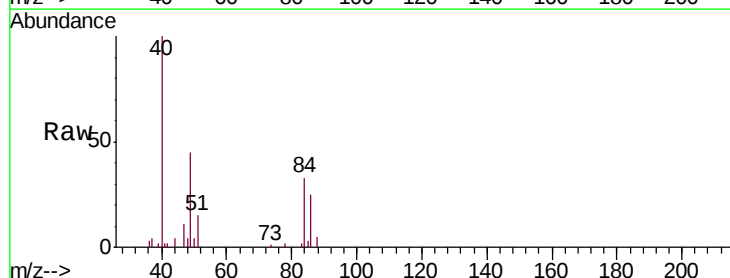
Tgt Ion: 84 Resp: 4567

Ion Ratio Lower Upper

84 100

49 138.4 90.4 167.8

86 76.3 44.0 81.6



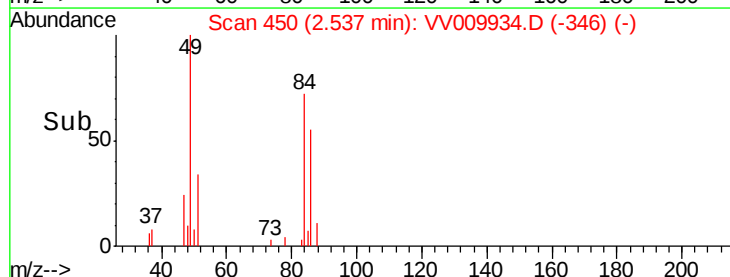
Abundance Ion 84.00 (83.70 to 84.70): VV009919.D (-437) (-)

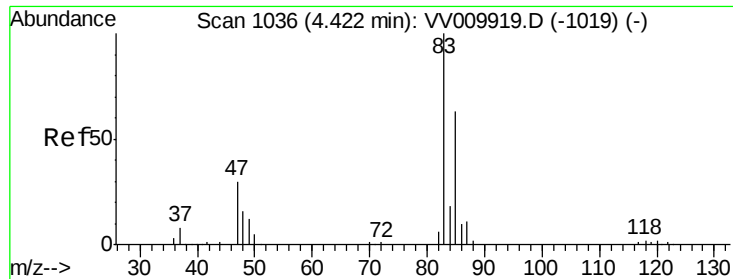
Ion 49.00 (48.70 to 49.70): VV009919.D (-437) (-)

Ion 86.00 (85.70 to 86.70): VV009919.D (-437) (-)

2.54

Time-->

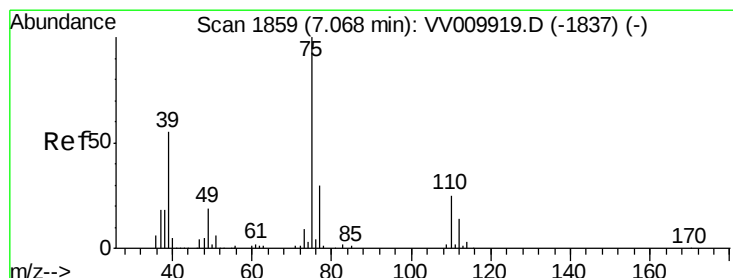
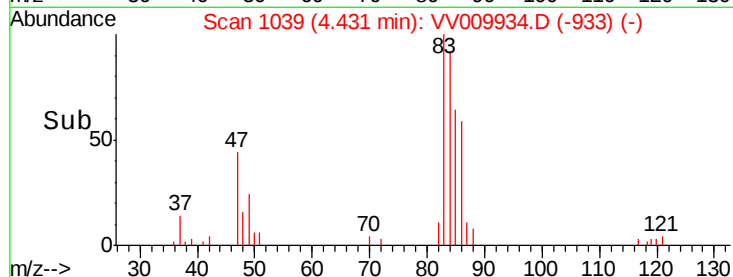
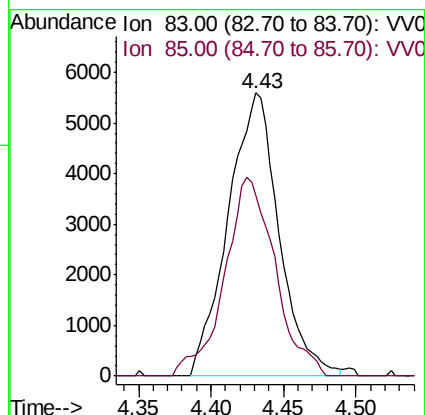
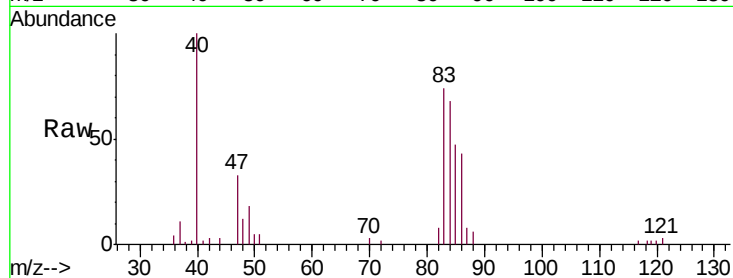




#25  
Chloroform  
Concen: 4.912 ug/L  
RT: 4.43 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: VV009934.D  
Acq: 27 Mar 2019 17:53

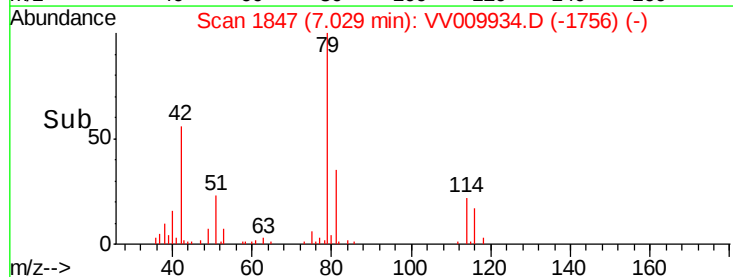
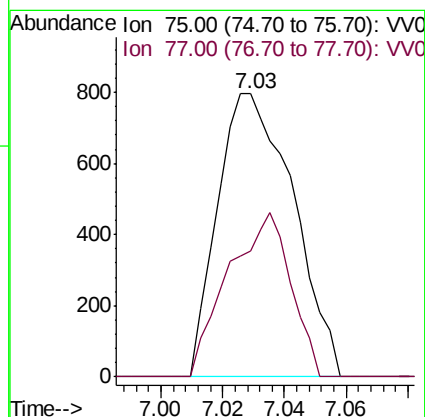
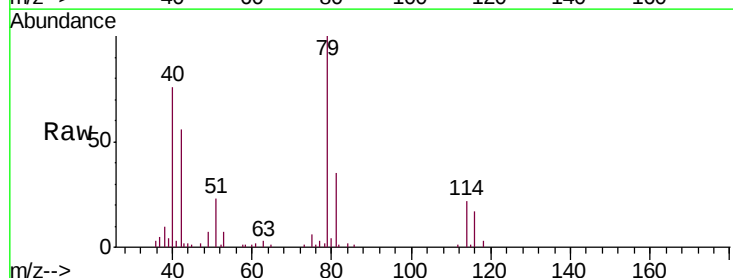
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF7T8

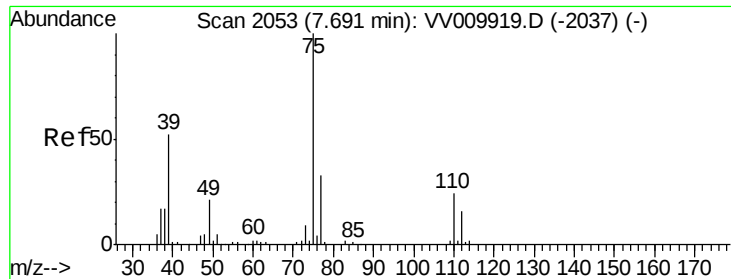
Tgt Ion: 83 Resp: 13695  
Ion Ratio Lower Upper  
83 100  
85 69.5 46.1 85.7



#42  
cis-1,3-Dichloropropene  
Concen: 0.627 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
Lab File: VV009934.D  
Acq: 27 Mar 2019 17:53

Tgt Ion: 75 Resp: 1351  
Ion Ratio Lower Upper  
75 100  
77 44.3 21.8 40.6#





#45

trans-1,3-Dichloropropene

Concen: 0.552 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV009934.D

Acq: 27 Mar 2019 17:53

Instrument :

MSVOA\_V

ClientSampleId :

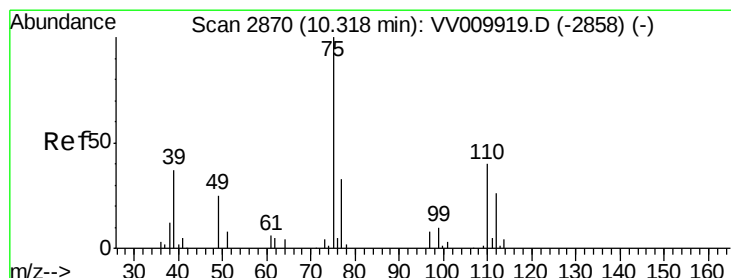
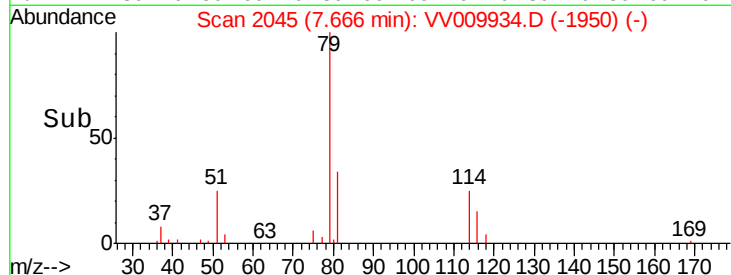
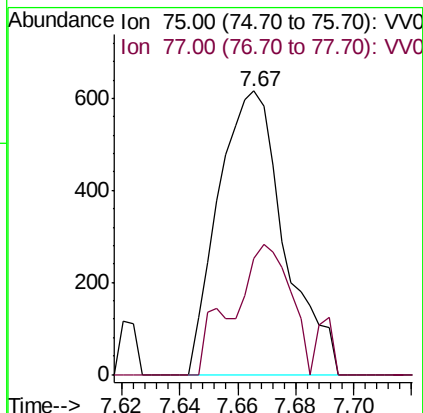
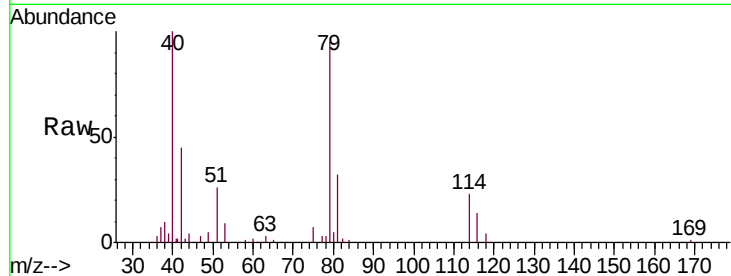
BF7T8

Tgt Ion: 75 Resp: 973

Ion Ratio Lower Upper

75 100

77 40.7 20.7 38.5#



#59

1,2,3-Trichloropropane

Concen: 6.015 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009934.D

Acq: 27 Mar 2019 17:53

Tgt Ion: 75 Resp: 7149

Ion Ratio Lower Upper

75 100

77 39.1 26.2 39.2

