

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\  
 Data File : VV010172.D  
 Acq On : 08 Apr 2019 13:36  
 Operator : SY/MD  
 Sample : K2218-01  
 Misc : 5.37G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5Z3

Quant Time: Apr 09 05:34:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 09 05:31:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 166986   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 164749   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 69035    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 23293    | 10.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 41.68%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 41379    | 14.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 59.60%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 57313    | 10.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 40.64%# |
| 20) 2-Butanone-d5              | 3.96   | 46    | 15208    | 23.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 47.82%  |
| 24) Chloroform-d               | 4.40   | 84    | 103218   | 24.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 98.16%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 75806    | 32.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 128.84% |
| 29) Benzene-d6                 | 5.10   | 84    | 193823   | 22.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 90.76%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 71068    | 28.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 112.76% |
| 37) Toluene-d8                 | 7.36   | 98    | 174288   | 21.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 84.68%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 18416    | 17.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 68.36%  |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 8794     | 17.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 34.78%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 74510    | 29.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 119.84% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 68045    | 25.30    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.20% |

## Target Compounds

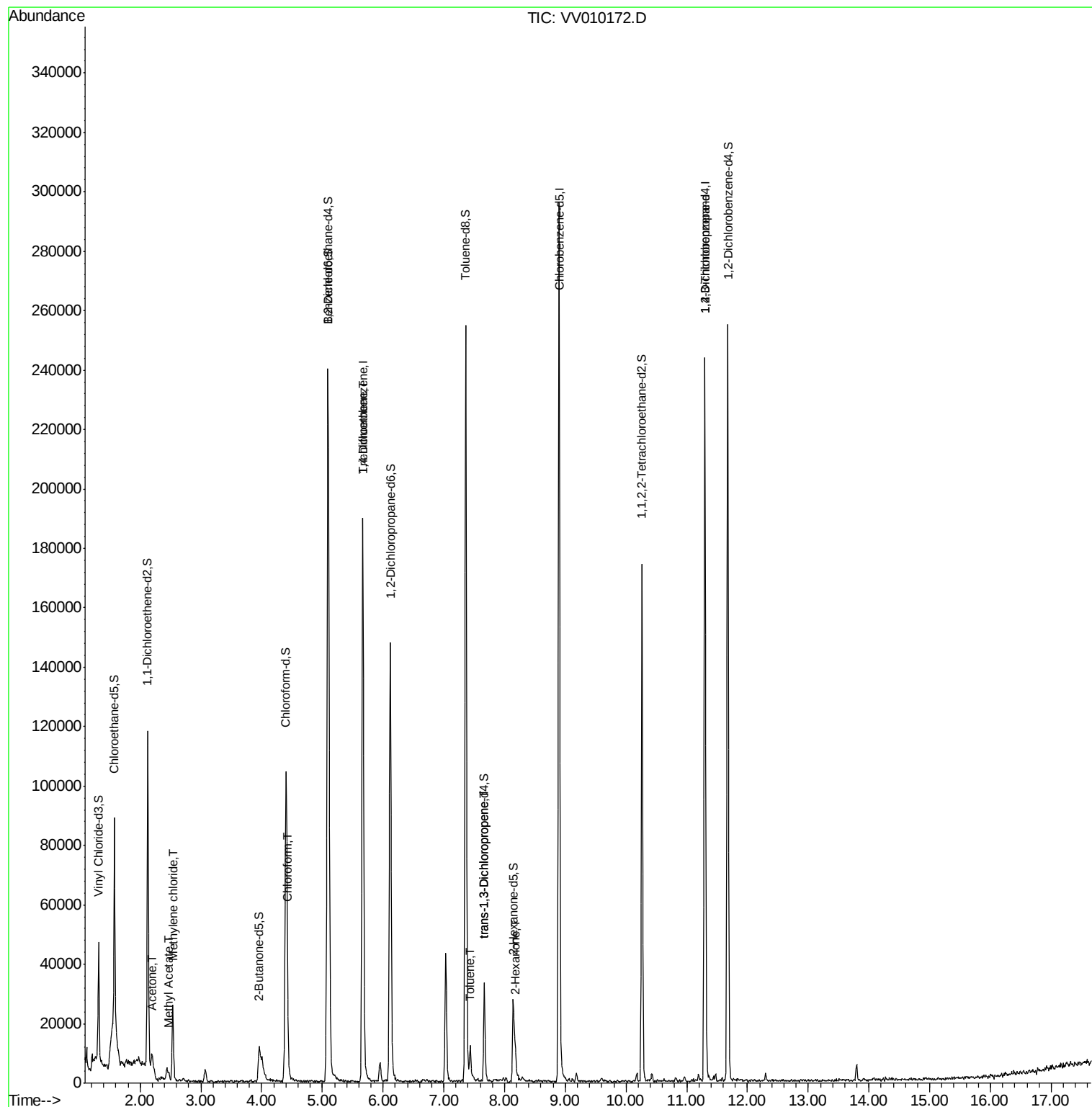
|                               |       |    |       |              | Ovalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                   | 2.21  | 43 | 5354  | 8.513 ug/L   | 94     |
| 15) Methyl Acetate            | 2.47  | 43 | 2575  | 2.559 ug/L # | 83     |
| 16) Methylene chloride        | 2.54  | 84 | 10561 | 3.600 ug/L   | 97     |
| 25) Chloroform                | 4.43  | 83 | 3307  | 0.871 ug/L # | 17     |
| 35) Trichloroethene           | 5.66  | 95 | 4556  | 1.965 ug/L # | 3      |
| 44) Toluene                   | 7.43  | 91 | 6467  | 0.715 ug/L   | 89     |
| 45) trans-1,3-Dichloropropene | 7.67  | 75 | 1159  | 0.462 ug/L   | 88     |
| 49) 2-Hexanone                | 8.18  | 43 | 6284  | 5.841 ug/L # | 41     |
| 59) 1,2,3-Trichloropropane    | 11.30 | 75 | 8883  | 5.344 ug/L   | 90     |

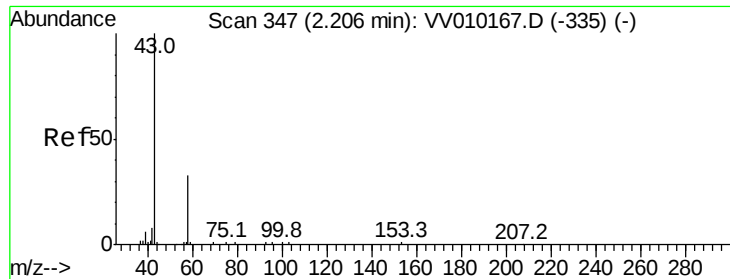
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Apr 09 05:31:28 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 8.513 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.00 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Instrument :

MSVOA\_V

ClientSampleId :

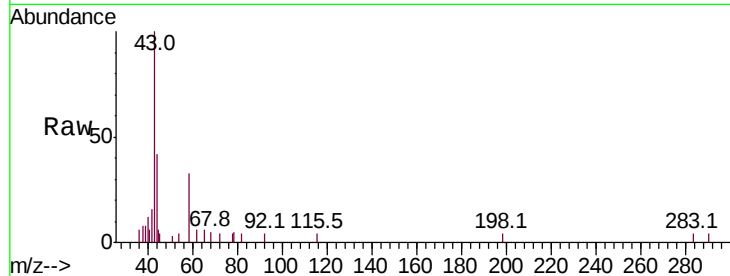
BF5Z3

Tot Ion: 43 Resp: 5354

Ion Ratio Lower Upper

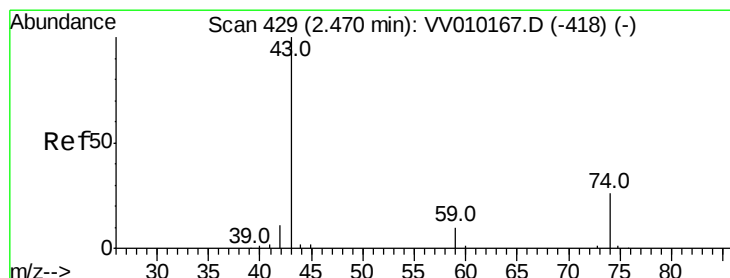
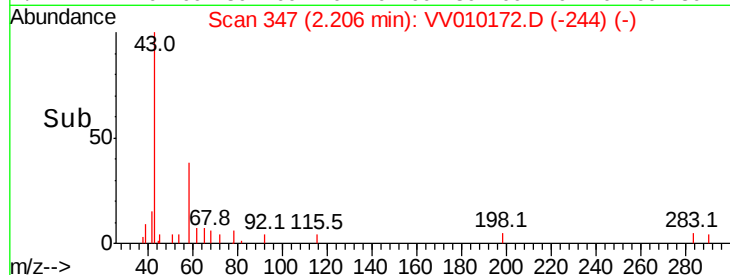
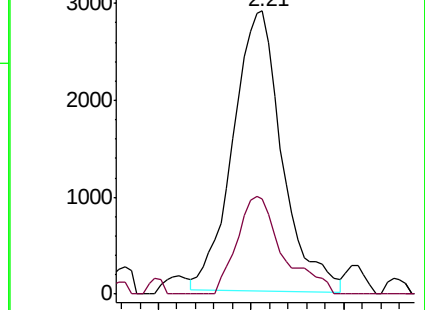
43 100

58 28.7 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010167.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV010167.D (-335) (-)



#15

Methyl Acetate

Concen: 2.559 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VV010172.D

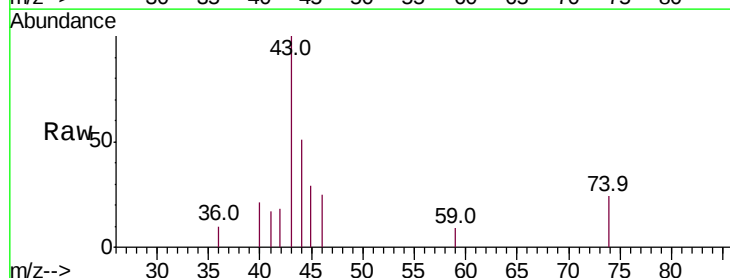
Acq: 08 Apr 2019 13:36

Tgt Ion: 43 Resp: 2575

Ion Ratio Lower Upper

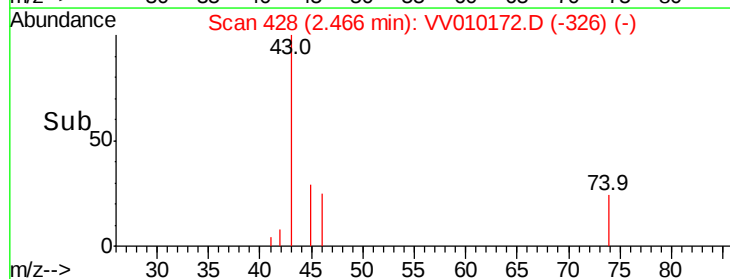
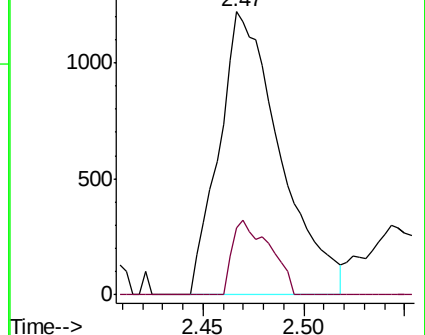
43 100

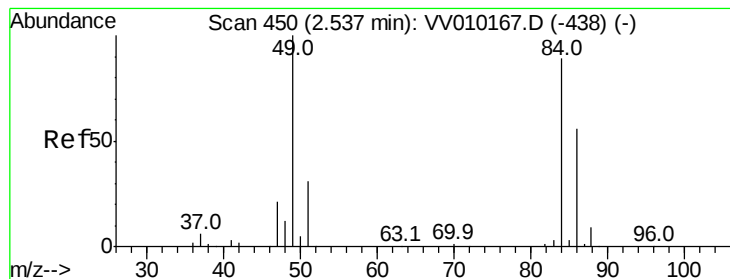
74 16.3 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VV010167.D (-418) (-)

Ion 74.00 (73.70 to 74.70): VV010167.D (-418) (-)





#16

Methvlene chloride

Concen: 3.600 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Instrument :

MSVOA\_V

ClientSampleId :

BF5Z3

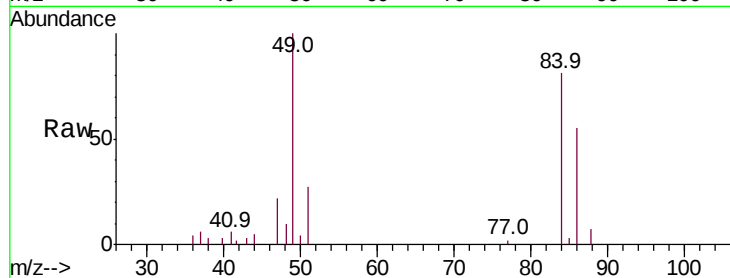
Tot Ion: 84 Resp: 10561

Ion Ratio Lower Upper

84 100

49 123.2 84.3 156.5

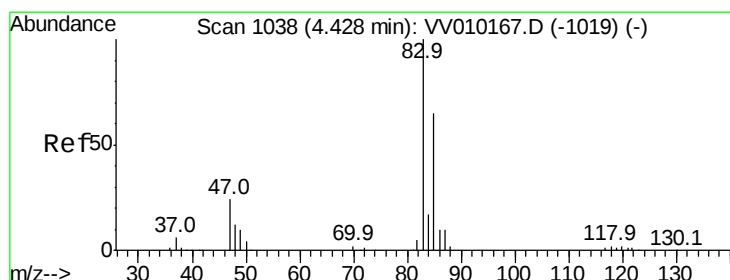
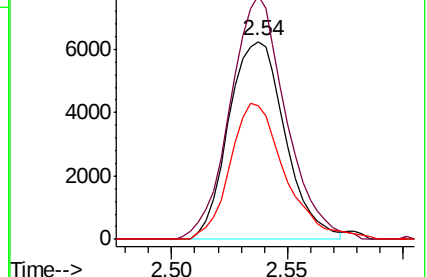
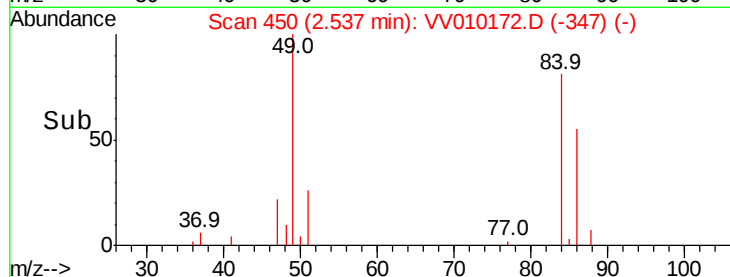
86 67.9 45.4 84.2



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



#25

Chloroform

Concen: 0.871 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VV010172.D

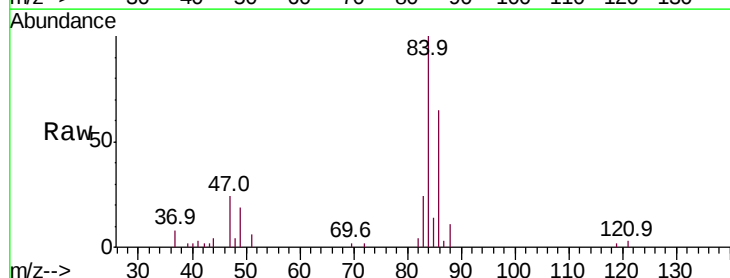
Acq: 08 Apr 2019 13:36

Tgt Ion: 83 Resp: 3307

Ion Ratio Lower Upper

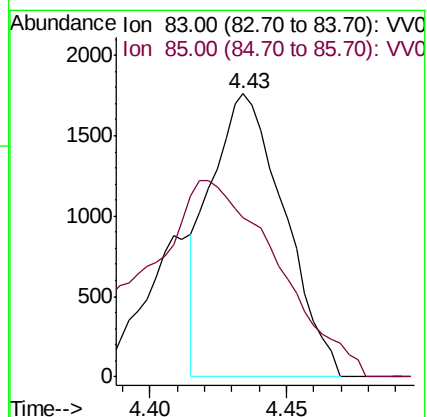
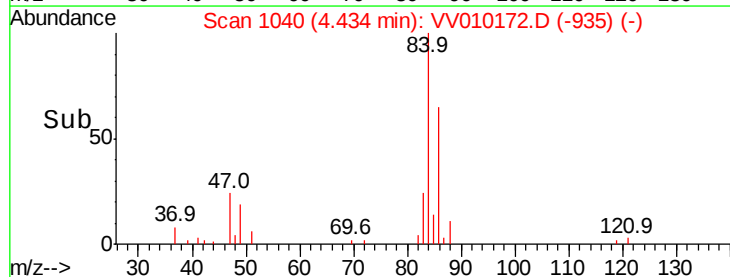
83 100

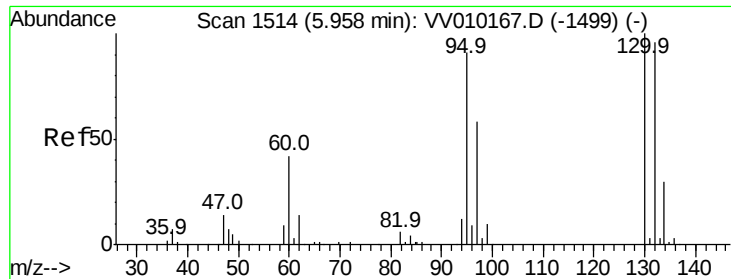
85 0.0 46.4 86.2#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#35

Trichloroethene

Concen: 1.965 ug/L

RT: 5.66 min Scan# 1422

Delta R.T. -0.30 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Instrument :

MSVOA\_V

ClientSampleId :

BF5Z3

Tot Ion: 95 Resp: 4556

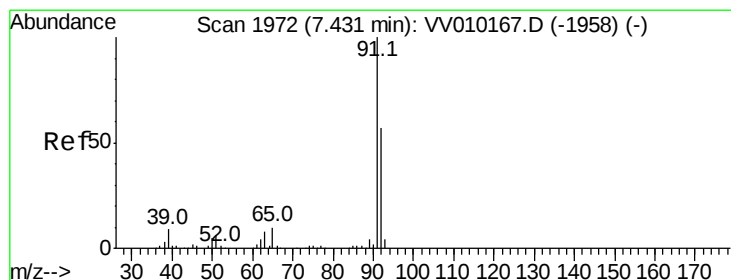
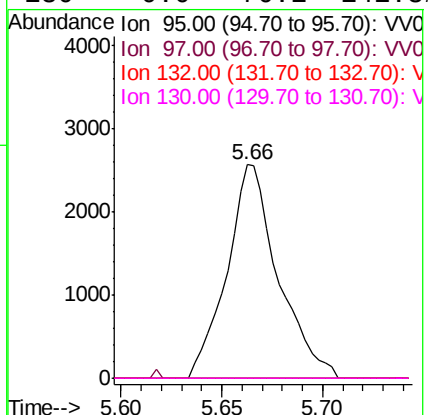
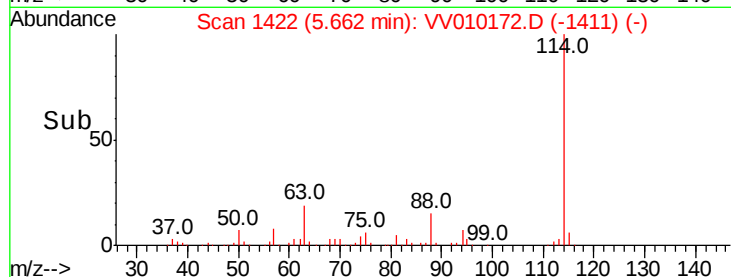
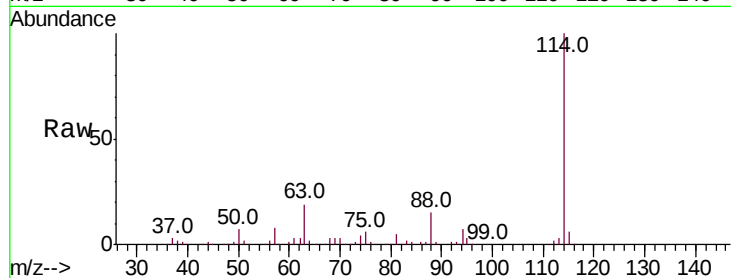
Ion Ratio Lower Upper

95 100

97 0.0 45.8 85.2#

132 0.0 70.6 131.0#

130 0.0 76.1 141.3#



#44

Toluene

Concen: 0.715 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV010172.D

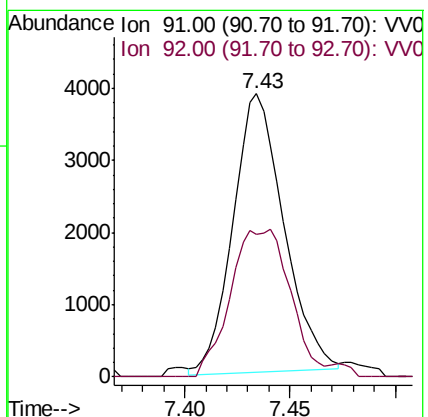
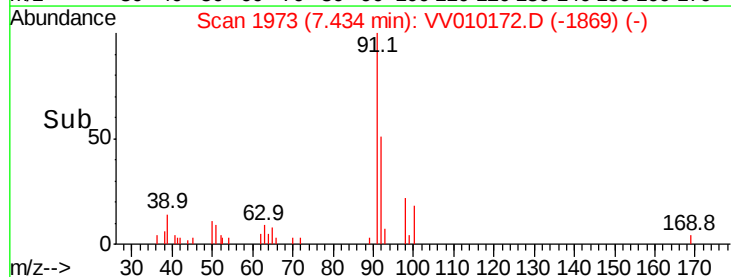
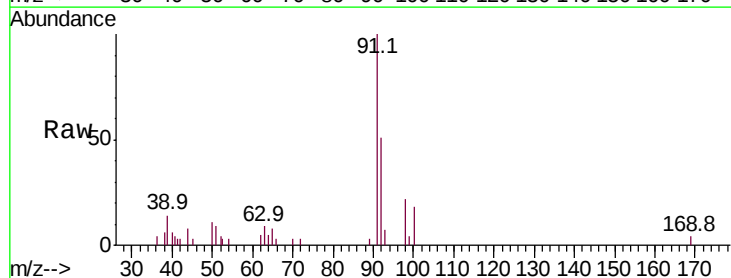
Acq: 08 Apr 2019 13:36

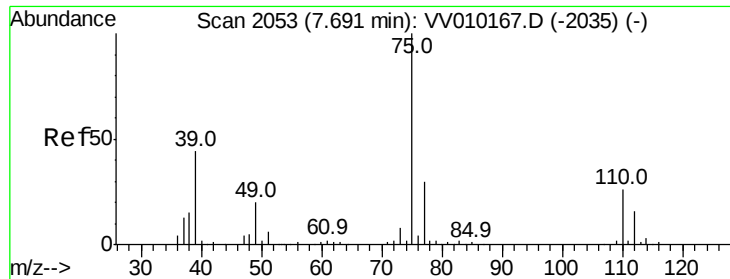
Tgt Ion: 91 Resp: 6467

Ion Ratio Lower Upper

91 100

92 50.6 41.0 76.2





#45

trans-1,3-Dichloropropene

Concen: 0.462 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.02 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Instrument :

MSVOA\_V

ClientSampleId :

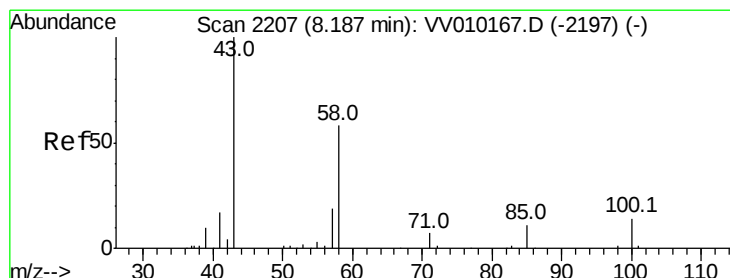
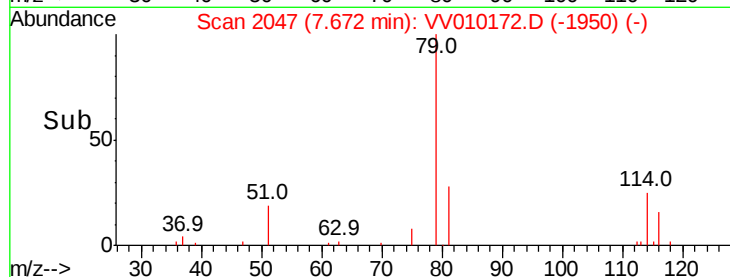
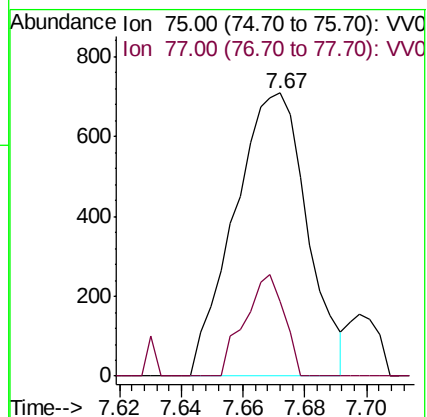
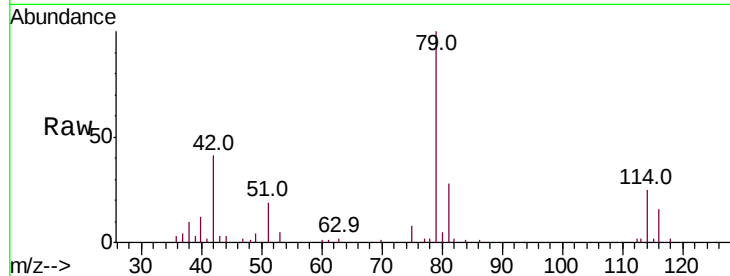
BF5Z3

Tot Ion: 75 Resp: 1159

Ion Ratio Lower Upper

75 100

77 26.7 23.5 43.7



#49

2-Hexanone

Concen: 5.841 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.01 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Tgt Ion: 43 Resp: 6284

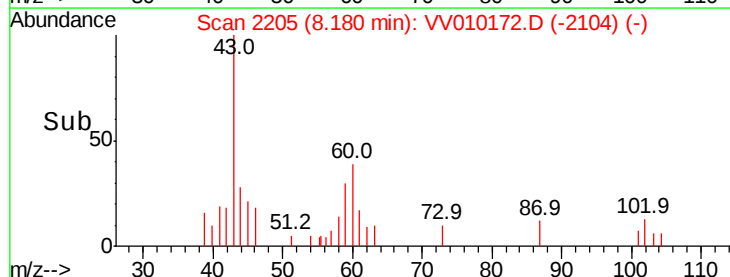
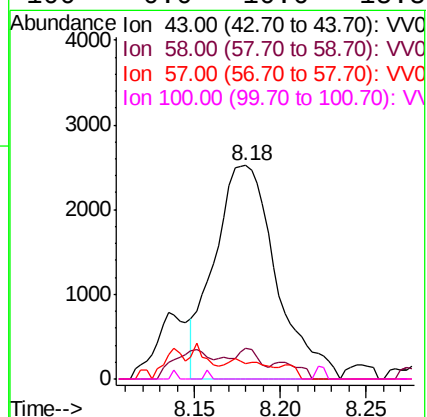
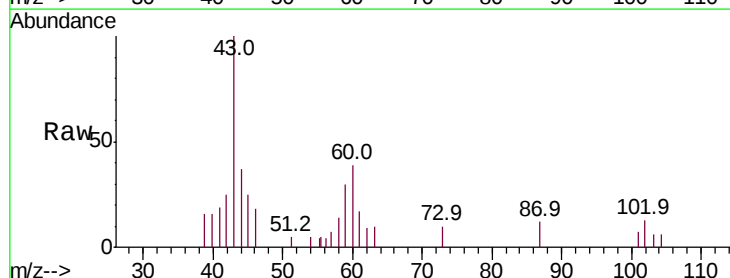
Ion Ratio Lower Upper

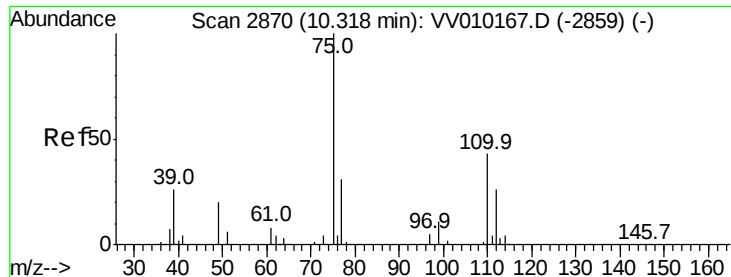
43 100

58 3.7 44.3 66.5#

57 0.9 13.8 20.8#

100 0.0 10.6 15.8#





#59

1,2,3-Trichloropropane

Concen: 5.344 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV010172.D

Acq: 08 Apr 2019 13:36

Instrument :

MSVOA\_V

ClientSampleId :

BF5Z3

Tot Ion: 75 Resp: 8883

Ion Ratio Lower Upper

75 100

77 26.8 25.8 38.8

