

Data File : VU032954.D  
Acq On : 21 Jun 2019 19:05  
Operator : JC/SP  
Sample : K3463-13  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ETF53

Quant Time: Jun 22 01:59:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 22 01:56:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 189791   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 185649   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 88077    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 45149    | 34.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 69.62%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 41488    | 40.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 80.22%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 73207    | 28.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 56.04%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 118486   | 109.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 109.75% |
| 24) Chloroform-d               | 4.64    | 84    | 112584   | 44.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.30%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 80139    | 47.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.42%  |
| 32) Benzene-d6                 | 5.33    | 84    | 207923   | 42.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.92%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 70490    | 45.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.44%  |
| 41) Toluene-d8                 | 7.56    | 98    | 181428   | 40.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.06%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 33395    | 41.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.28%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 69138    | 96.04    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 96.04%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 110907   | 46.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.08%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 79378    | 46.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.14%  |

#### Target Compounds

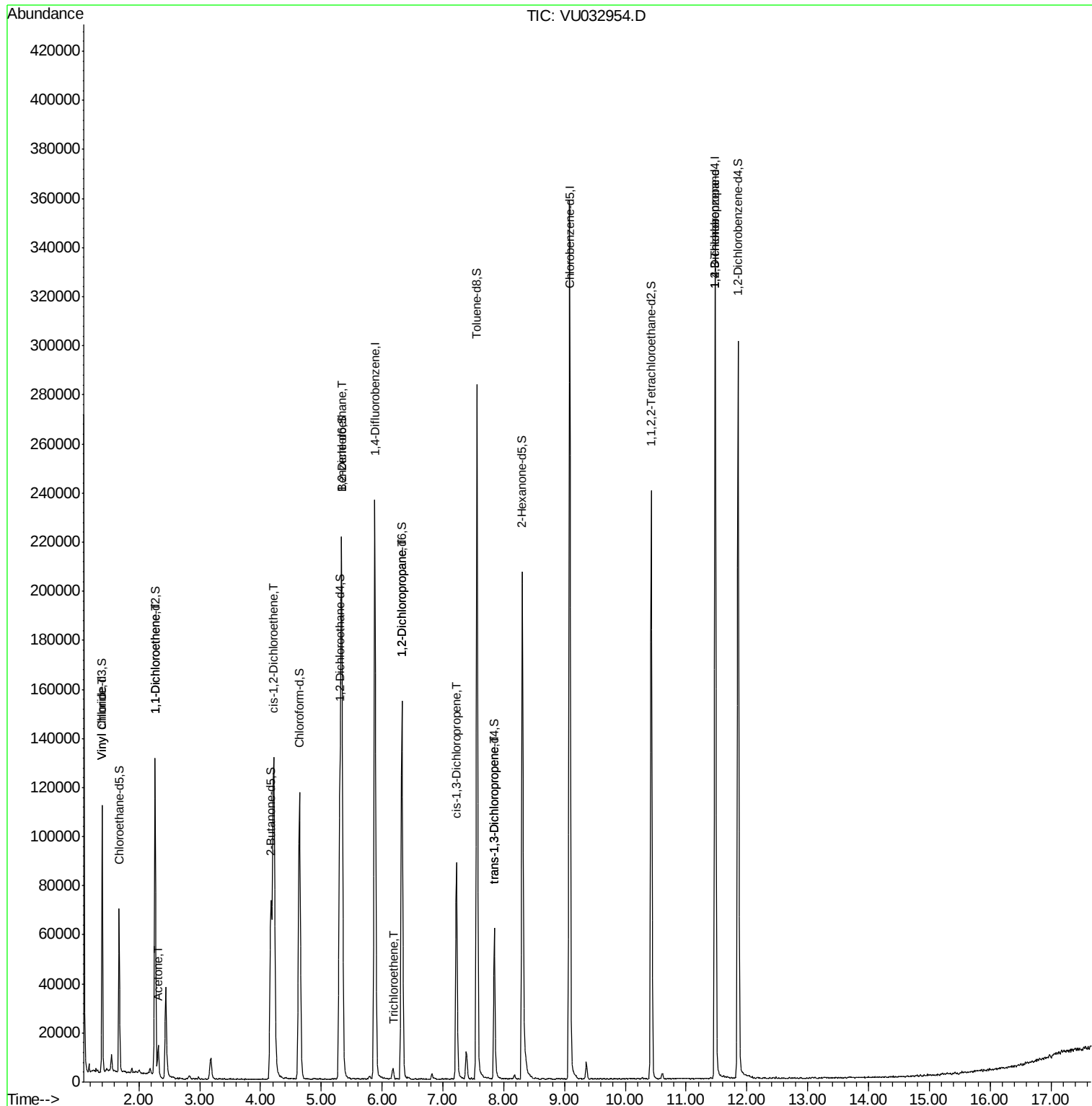
|                               |       |    |       |        |        | Qvalue |
|-------------------------------|-------|----|-------|--------|--------|--------|
| 5) Vinyl chloride             | 1.40  | 62 | 24084 | 13.974 | ug/L   | 96     |
| 12) 1,1-Dichloroethene        | 2.27  | 96 | 747   | 0.625  | ug/L # | 1      |
| 13) Acetone                   | 2.32  | 43 | 14041 | 9.416  | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene    | 4.22  | 96 | 67326 | 47.684 | ug/L   | 96     |
| 27) 1,2-Dichloroethane        | 5.33  | 62 | 1338  | 0.639  | ug/L # | 77     |
| 34) Trichloroethene           | 6.18  | 95 | 787   | 0.551  | ug/L   | 90     |
| 37) 1,2-Dichloropropane       | 6.32  | 63 | 8941  | 6.095  | ug/L # | 88     |
| 39) cis-1,3-Dichloropropene   | 7.22  | 75 | 2375  | 1.039  | ug/L # | 81     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75 | 1680  | 0.783  | ug/L   | 90     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75 | 11535 | 5.892  | ug/L   | 89     |

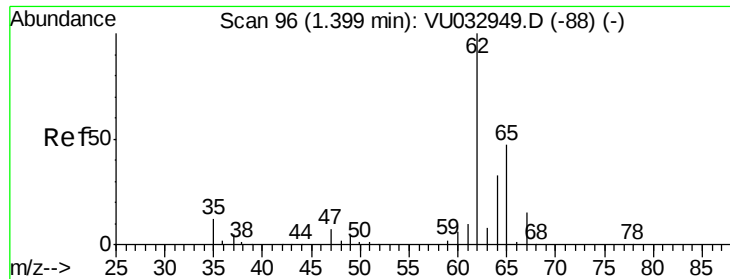
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 13.974 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Instrument :

MSVOA\_U

ClientSampleId :

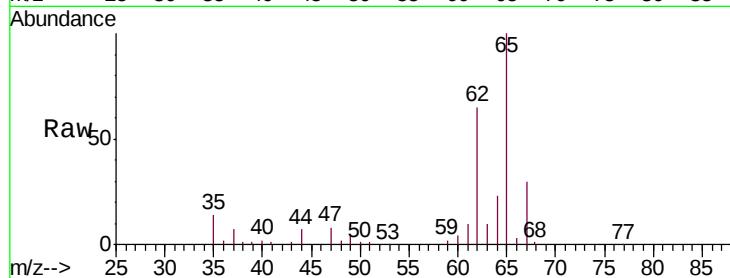
ETF53

Tgt Ion: 62 Resp: 24084

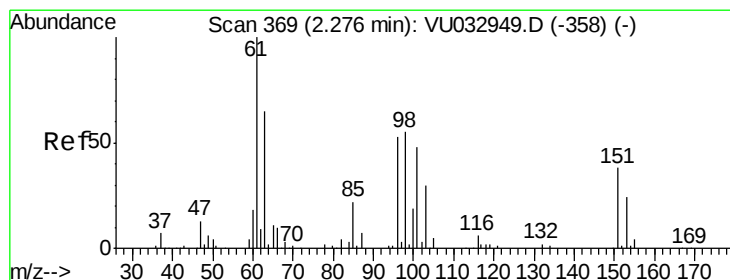
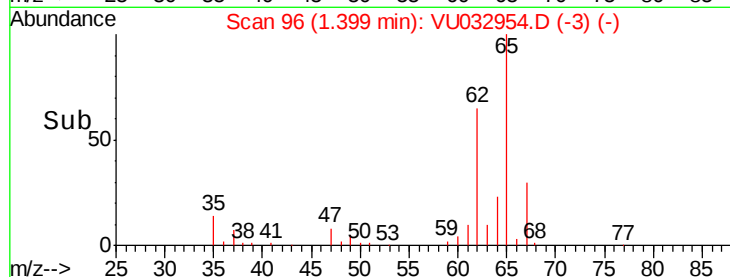
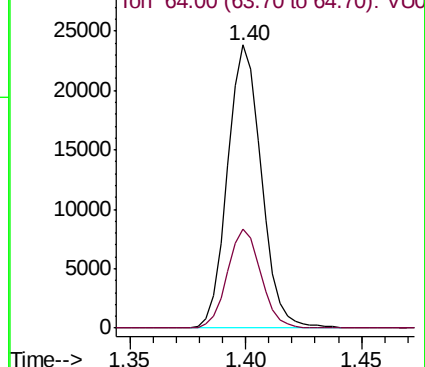
Ion Ratio Lower Upper

62 100

64 35.2 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032949.D (-88) (-)



#12

1,1-Dichloroethene

Concen: 0.625 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

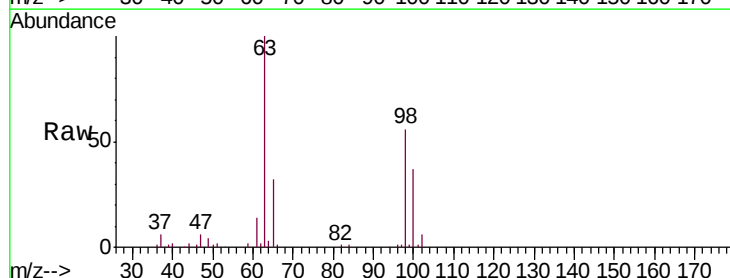
Tgt Ion: 96 Resp: 747

Ion Ratio Lower Upper

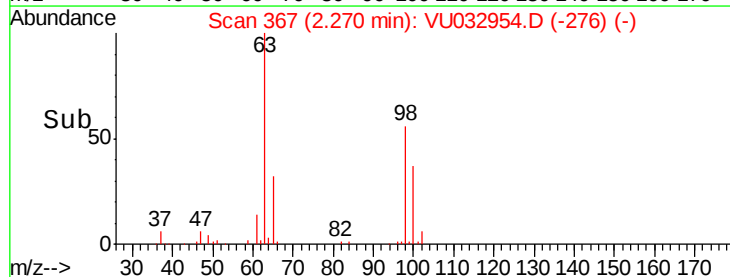
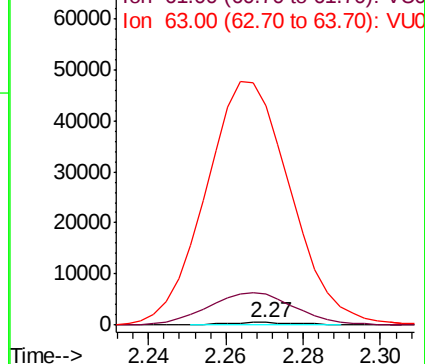
96 100

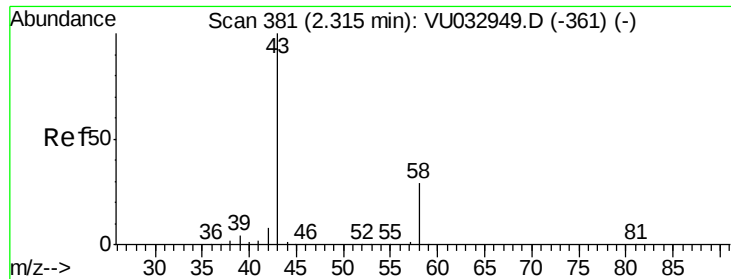
61 1250.4 131.0 243.4#

63 8979.1 101.0 187.6#



Abundance Ion 96.00 (95.70 to 96.70): VU032949.D (-358) (-)





#13

Acetone

Concen: 9.416 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Instrument :

MSVOA\_U

ClientSampleId :

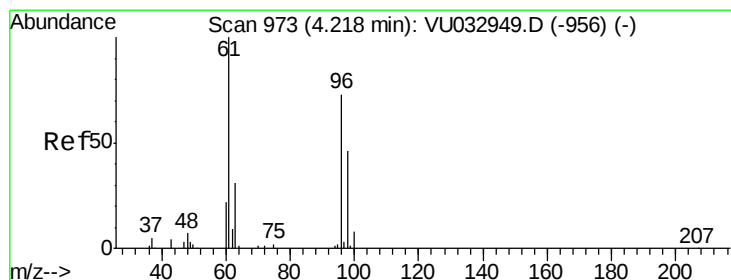
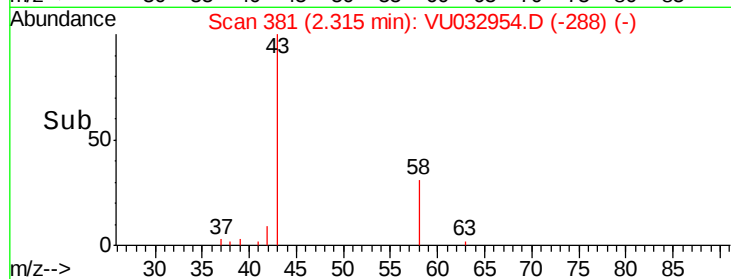
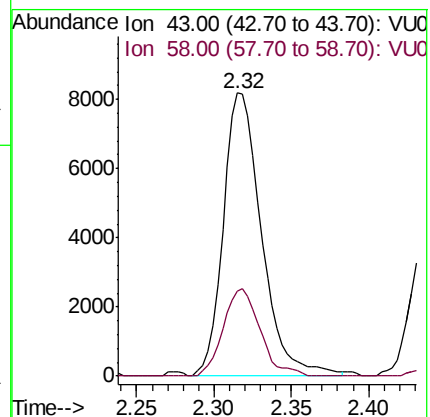
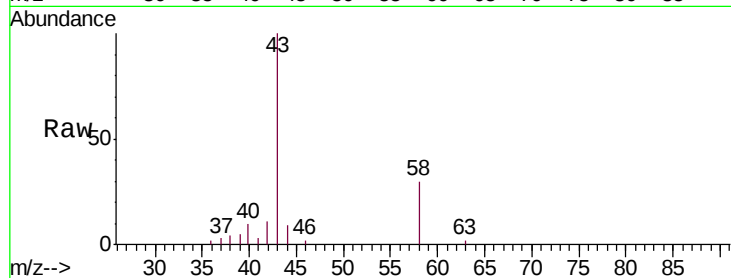
ETF53

Tgt Ion: 43 Resp: 14041

Ion Ratio Lower Upper

43 100

58 28.6 0.0 60.6



#20

cis-1,2-Dichloroethene

Concen: 47.684 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

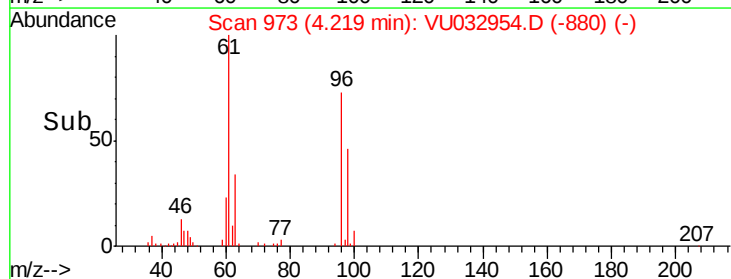
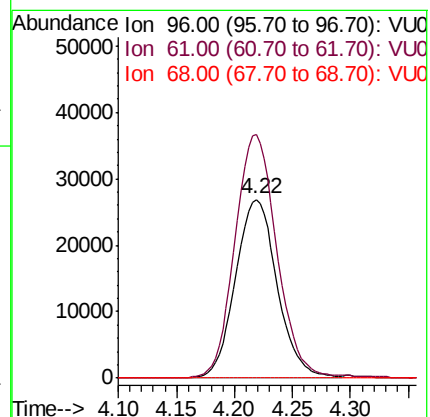
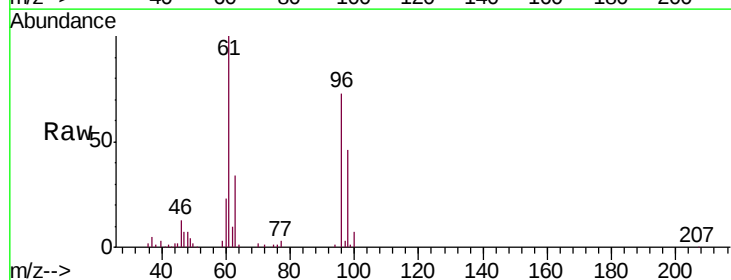
Tgt Ion: 96 Resp: 67326

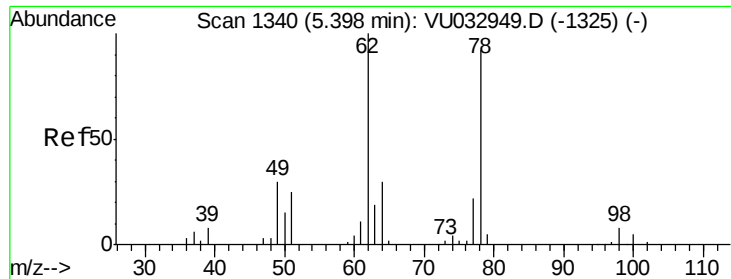
Ion Ratio Lower Upper

96 100

61 136.5 92.4 171.6

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.639 ug/L

RT: 5.33 min Scan# 1320

Delta R.T. -0.06 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Instrument :

MSVOA\_U

ClientSampleId :

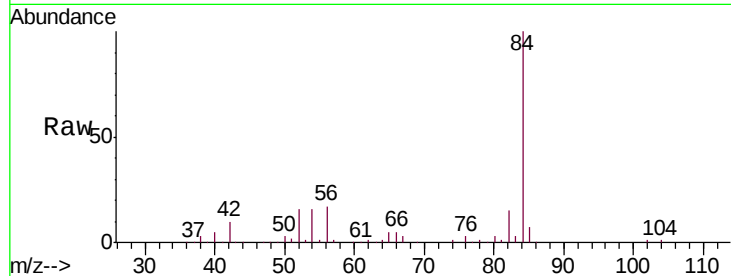
ETF53

Tgt Ion: 62 Resp: 1338

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU032949.D (-1325) (-)

Ion 98.00 (97.70 to 98.70): VU032949.D (-1325) (-)

5.33

600

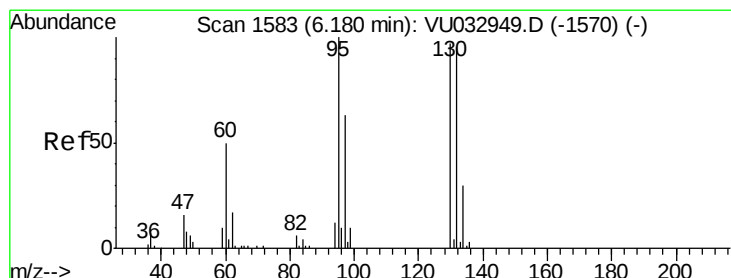
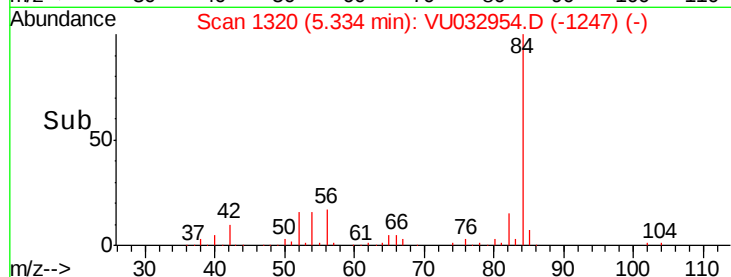
400

200

0

5.30 5.32 5.34 5.36 5.38

Time-->



#34

Trichloroethene

Concen: 0.551 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Tgt Ion: 95 Resp: 787

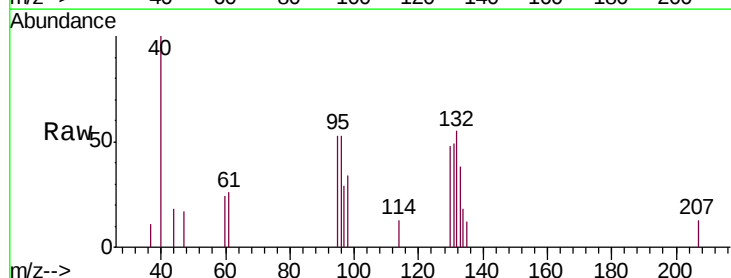
Ion Ratio Lower Upper

95 100

97 54.6 45.9 85.3

132 104.4 68.5 127.3

130 90.5 70.8 131.4



Abundance Ion 95.00 (94.70 to 95.70): VU032949.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU032949.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU032949.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU032949.D (-1570) (-)

800

600

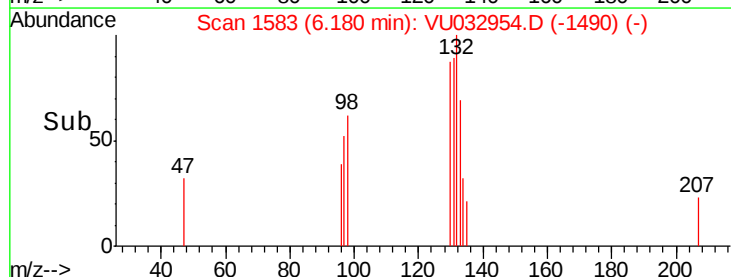
400

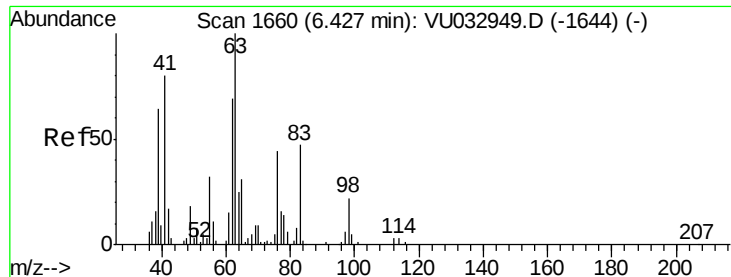
200

0

6.14 6.16 6.18 6.20 6.22

Time-->





#37

1,2-Dichloropropane

Concen: 6.095 ug/L

RT: 6.32 min Scan# 1627

Delta R.T. -0.11 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Instrument :

MSVOA\_U

ClientSampleId :

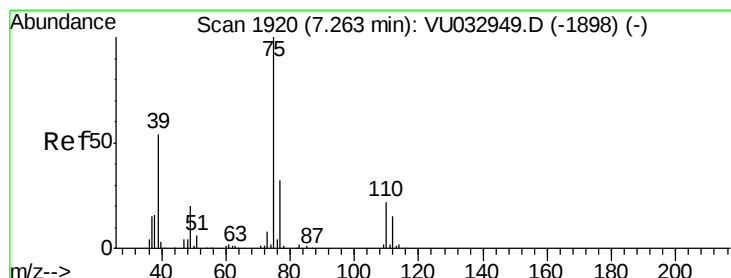
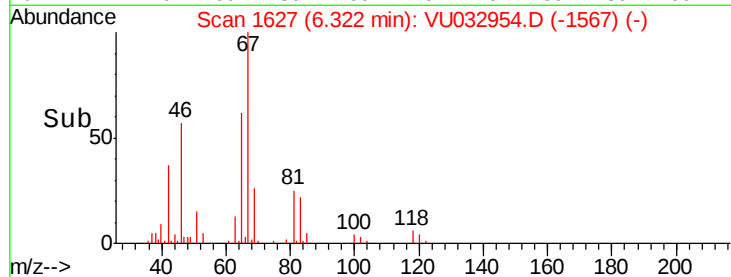
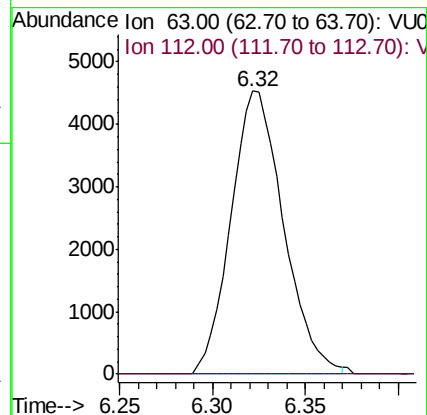
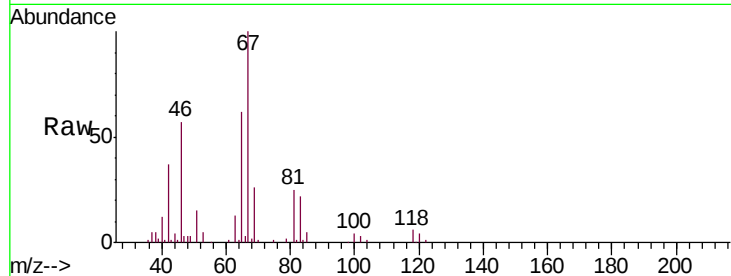
ETF53

Tgt Ion: 63 Resp: 8941

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.6#



#39

cis-1,3-Dichloropropene

Concen: 1.039 ug/L

RT: 7.22 min Scan# 1908

Delta R.T. -0.04 min

Lab File: VU032954.D

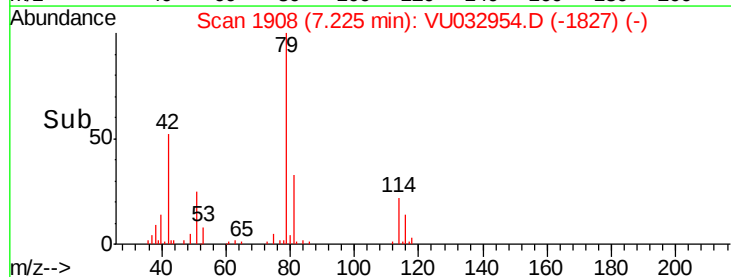
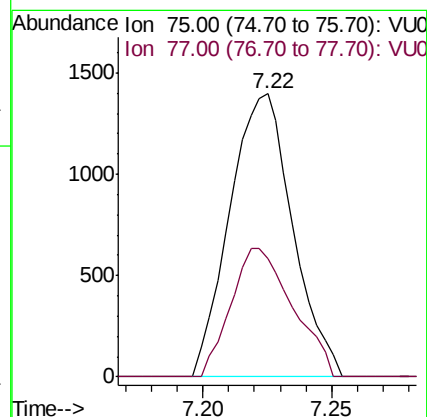
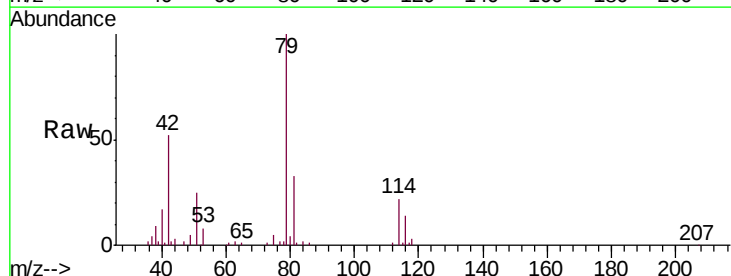
Acq: 21 Jun 2019 19:05

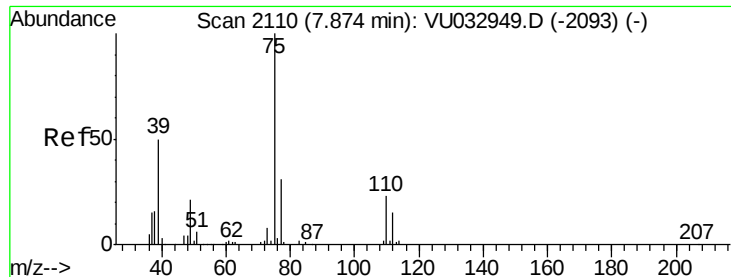
Tgt Ion: 75 Resp: 2375

Ion Ratio Lower Upper

75 100

77 41.8 21.9 40.7#





#44

trans-1,3-Dichloropropene

Concen: 0.783 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU032954.D

Acq: 21 Jun 2019 19:05

Instrument :

MSVOA\_U

ClientSampleId :

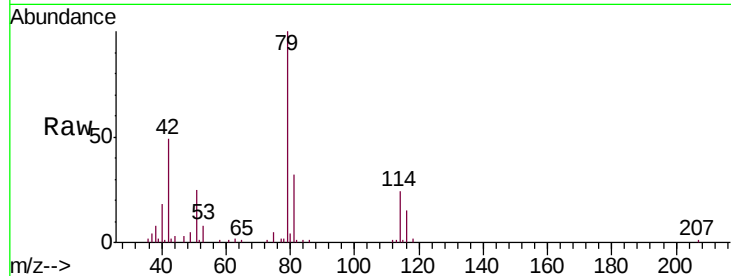
ETF53

Tgt Ion: 75 Resp: 1680

Ion Ratio Lower Upper

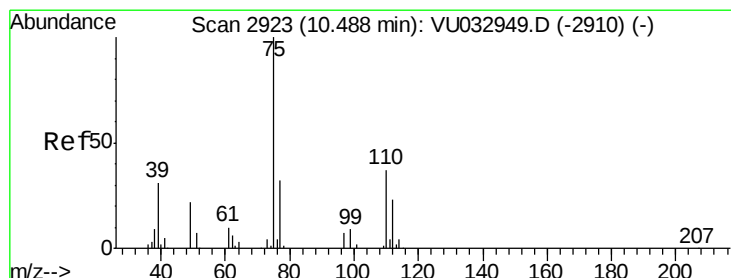
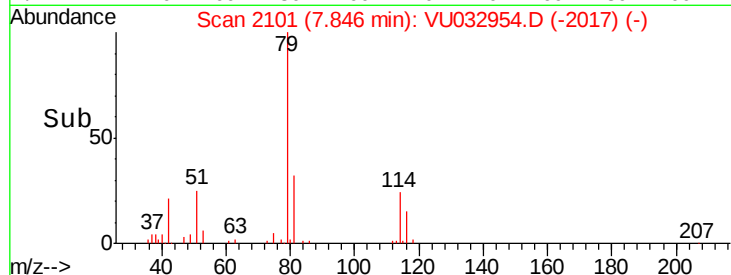
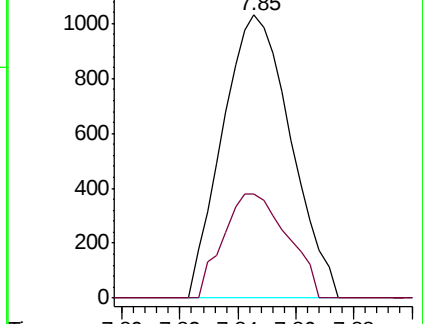
75 100

77 36.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032949.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU032949.D (-2093) (-)



#59

1,2,3-Trichloropropane

Concen: 5.892 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032954.D

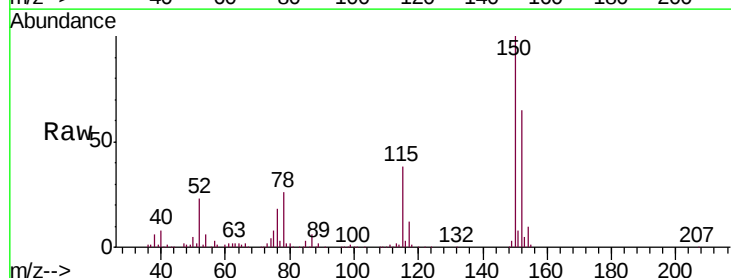
Acq: 21 Jun 2019 19:05

Tgt Ion: 75 Resp: 11535

Ion Ratio Lower Upper

75 100

77 38.0 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU032949.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU032949.D (-2910) (-)

