

Data File : VU036187.D  
Acq On : 13 Dec 2019 07:18  
Operator : JC/MD  
Sample : K6240-17  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFQX2

Quant Time: Dec 13 08:04:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Dec 13 04:38:02 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 252573   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 271598   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 107327   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 101491   | 3.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 101614   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 106137   | 3.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.80%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 221510   | 53.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.74% |
| 24) Chloroform-d               | 5.11   | 84    | 177073   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 93686    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 32) Benzene-d6                 | 5.77   | 84    | 331004   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 107469   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.20%  |
| 41) Toluene-d8                 | 7.93   | 98    | 260177   | 3.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 77.60%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 33875    | 3.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 71.80%  |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 160707   | 46.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 92.58%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 99233    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 106278   | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.20% |

#### Target Compounds

|                             |      |     |       |              | Qvalue |
|-----------------------------|------|-----|-------|--------------|--------|
| 5) Vinyl chloride           | 1.62 | 62  | 13881 | 0.411 ug/L # | 81     |
| 8) Chloroethane             | 1.95 | 64  | 6266  | 0.302 ug/L   | 89     |
| 13) Acetone                 | 2.67 | 43  | 42665 | 11.926 ug/L  | 100    |
| 15) Methyl Acetate          | 3.00 | 43  | 3747  | 0.491 ug/L   | 96     |
| 16) Methylene chloride      | 3.08 | 84  | 8526  | 0.320 ug/L   | 87     |
| 19) 1,1-Dichloroethane      | 3.92 | 63  | 37074 | 1.021 ug/L   | 100    |
| 21) 2-Butanone              | 4.78 | 43  | 5922  | 1.242 ug/L # | 67     |
| 22) cis-1,2-Dichloroethene  | 4.72 | 96  | 23923 | 1.177 ug/L   | 89     |
| 29) 1,1,1-Trichloroethane   | 5.36 | 97  | 13853 | 0.416 ug/L   | 98     |
| 31) Carbon tetrachloride    | 5.37 | 117 | 2417  | 0.081 ug/L   | 81     |
| 33) Benzene                 | 5.82 | 78  | 39033 | 0.467 ug/L   | 100    |
| 35) Methylcyclohexane       | 6.73 | 83  | 25807 | 0.847 ug/L # | 19     |
| 37) 1,2-Dichloropropane     | 6.73 | 63  | 11917 | 0.553 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene | 7.60 | 75  | 2069  | 0.073 ug/L # | 56     |
| 42) Toluene                 | 8.00 | 91  | 13562 | 0.153 ug/L   | 99     |
| 48) 2-Hexanone              | 8.72 | 43  | 7676  | 0.962 ug/L # | 81     |
| 51) Chlorobenzene           | 9.47 | 112 | 61556 | 1.068 ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU121219\  
Quantitation Report (Not Reviewed)

Data File : VU036187.D  
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Operator : JC/MD  
Sample : K6240-17  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFQX2

Quant Time: Dec 13 08:04:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Dec 13 04:38:02 2019  
Response via : Initial Calibration

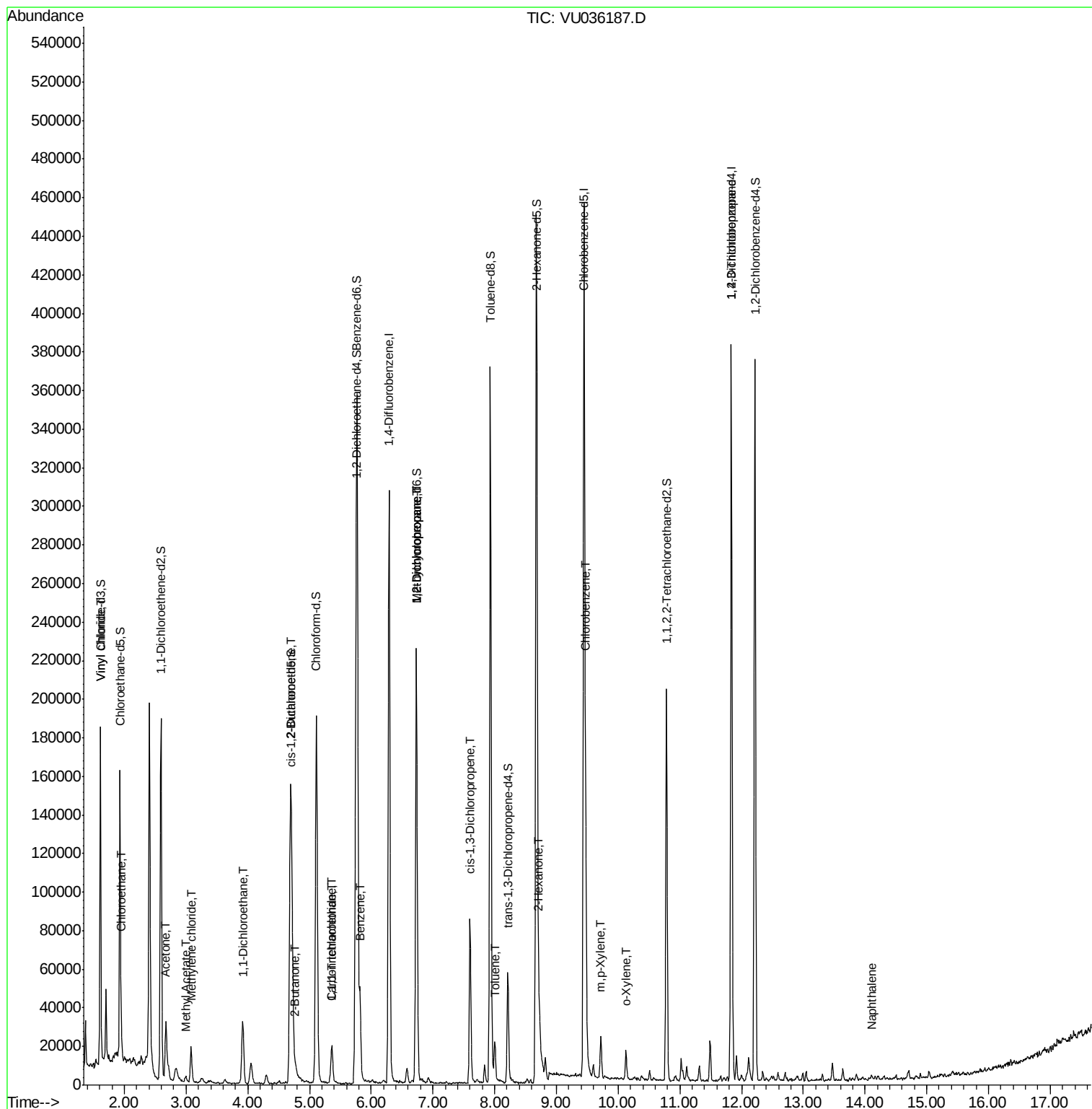
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 53) m,p-Xylene             | 9.72  | 106  | 6082     | 0.180 | ug/L   | 78       |
| 54) o-Xylene               | 10.13 | 106  | 4084     | 0.126 | ug/L   | 77       |
| 59) 1,2,3-Trichloropropane | 11.83 | 75   | 13221    | 0.930 | ug/L   | 92       |
| 69) Naphthalene            | 14.11 | 128  | 2353     | 0.190 | ug/L # | 91       |

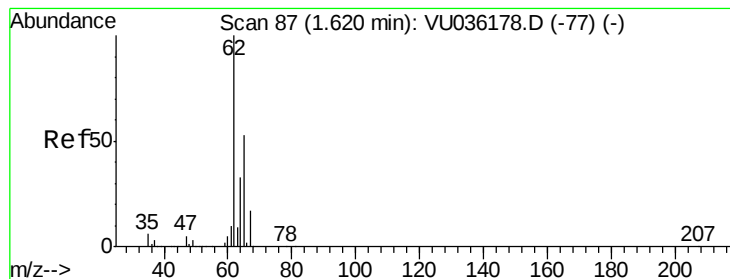
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.411 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

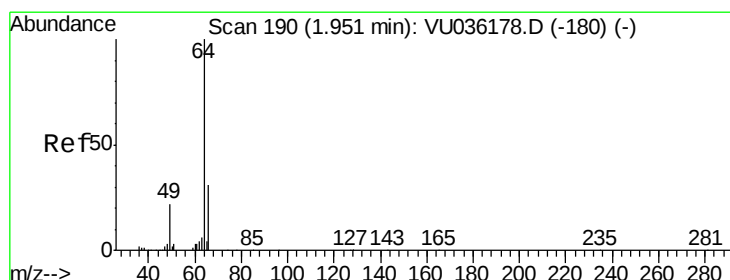
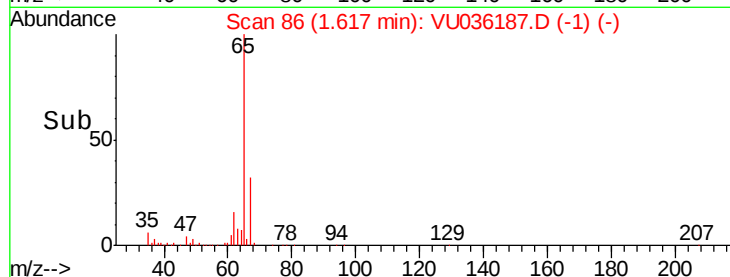
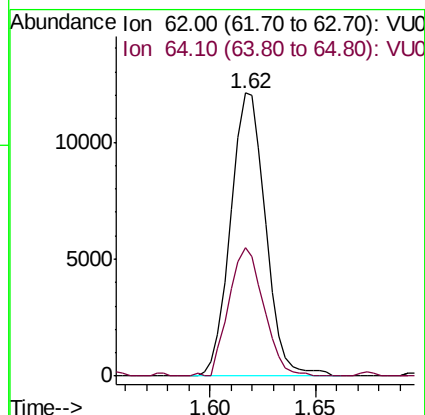
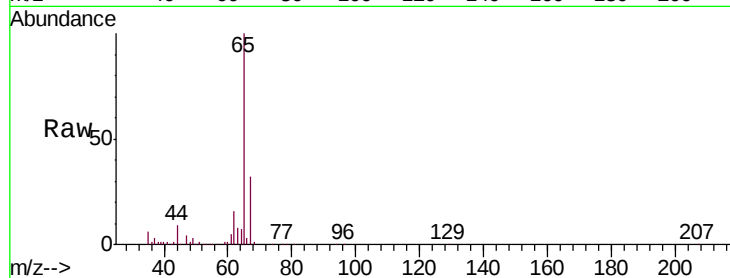
BFQX2

Tgt Ion: 62 Resp: 13881

Ion Ratio Lower Upper

62 100

64 45.2 24.0 44.6#



#8

Chloroethane

Concen: 0.302 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU036187.D

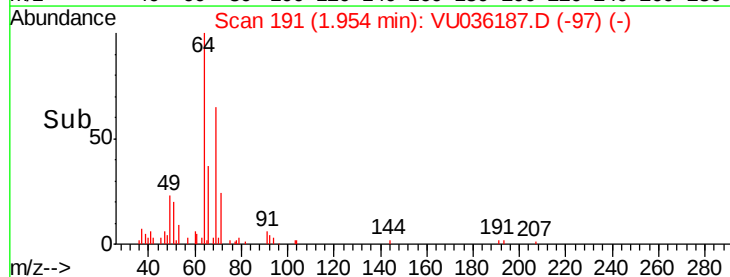
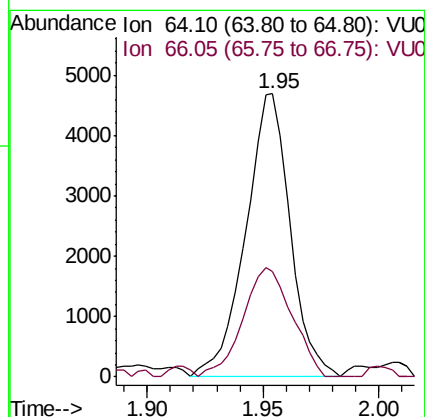
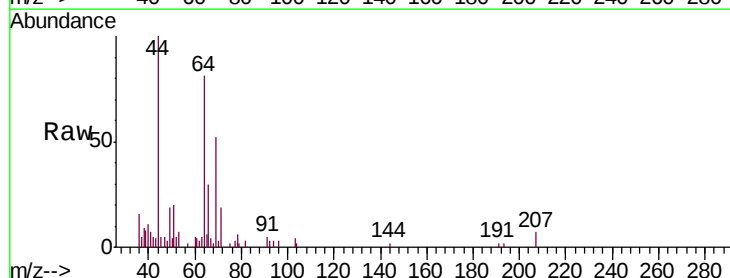
Acq: 13 Dec 2019 07:18

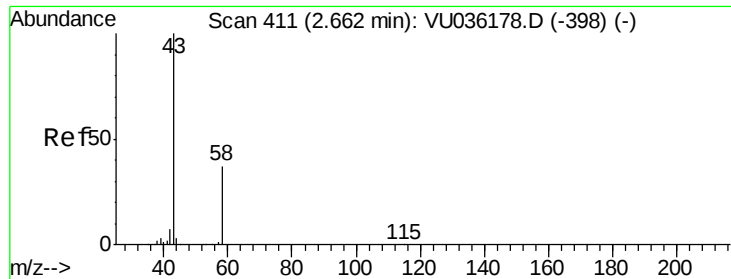
Tgt Ion: 64 Resp: 6266

Ion Ratio Lower Upper

64 100

66 37.4 22.0 41.0





#13

Acetone

Concen: 11.926 ug/L

RT: 2.67 min Scan# 415

Delta R.T. 0.01 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

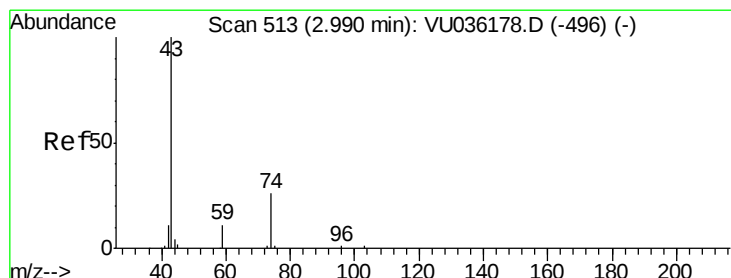
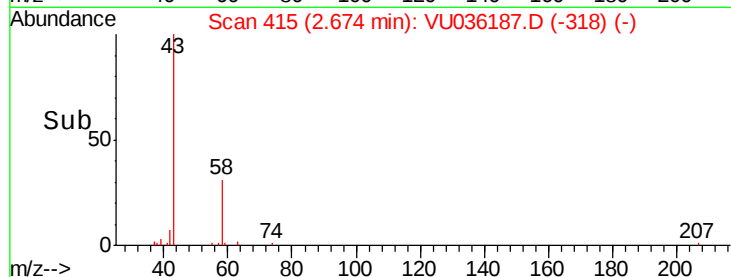
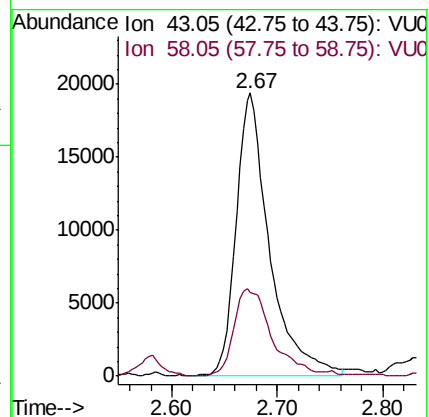
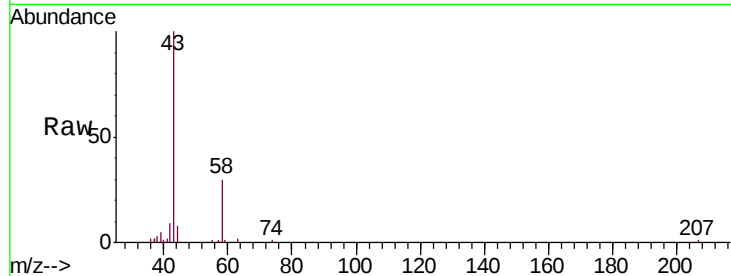
BFQX2

Tgt Ion: 43 Resp: 42665

Ion Ratio Lower Upper

43 100

58 34.8 0.0 70.0



#15

Methyl Acetate

Concen: 0.491 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU036187.D

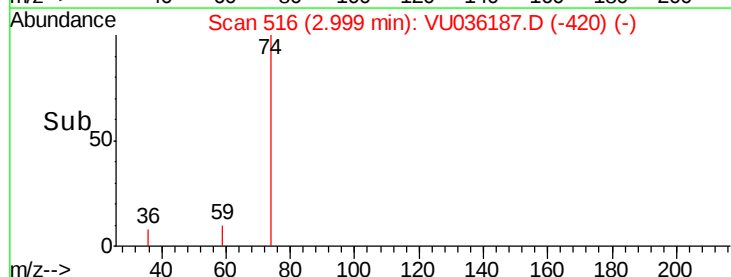
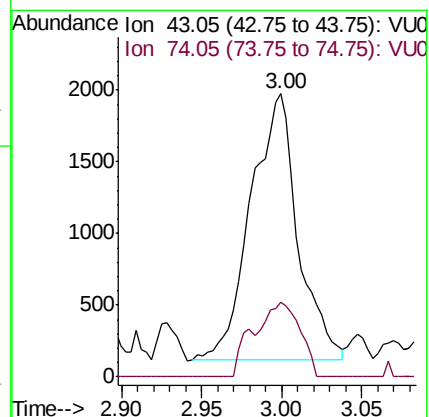
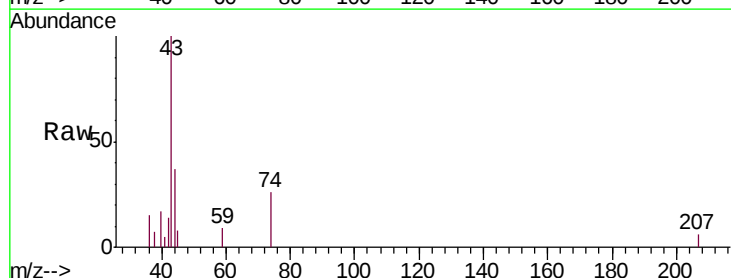
Acq: 13 Dec 2019 07:18

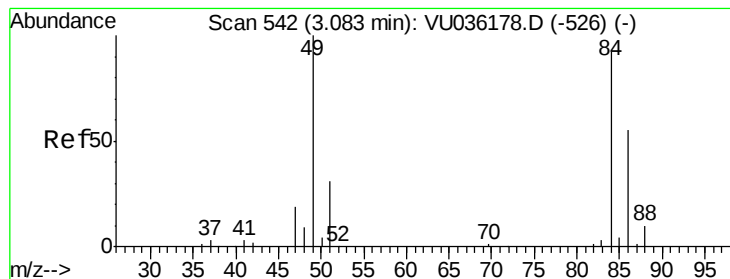
Tgt Ion: 43 Resp: 3747

Ion Ratio Lower Upper

43 100

74 27.5 20.6 30.8





#16

Methylene chloride

Concen: 0.320 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

BFQX2

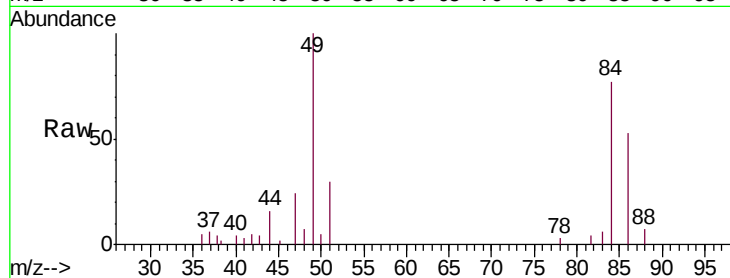
Tgt Ion: 84 Resp: 8526

Ion Ratio Lower Upper

84 100

86 68.8 46.1 85.5

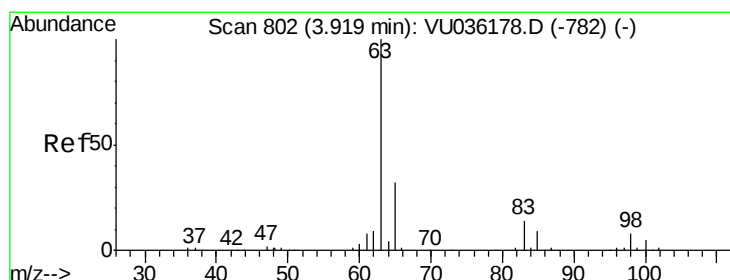
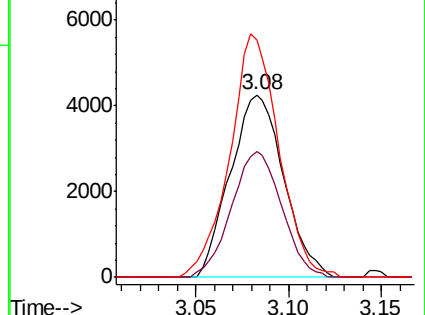
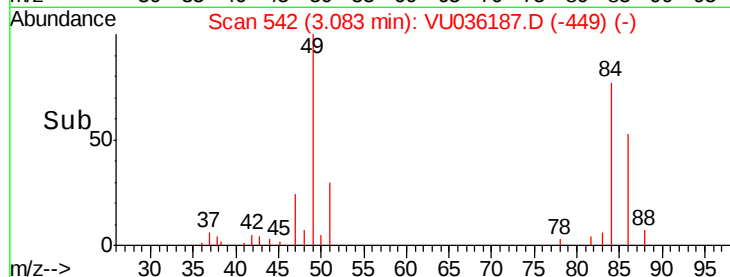
49 130.1 77.7 144.3



Abundance Ion 84.05 (83.75 to 84.75): VU036187.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU036187.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU036187.D (-526) (-)



#19

1,1-Dichloroethane

Concen: 1.021 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

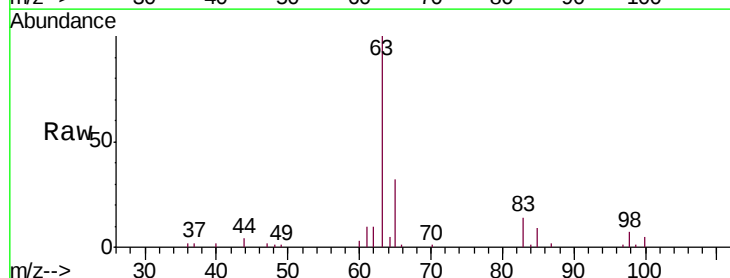
Tgt Ion: 63 Resp: 37074

Ion Ratio Lower Upper

63 100

65 32.0 22.2 41.2

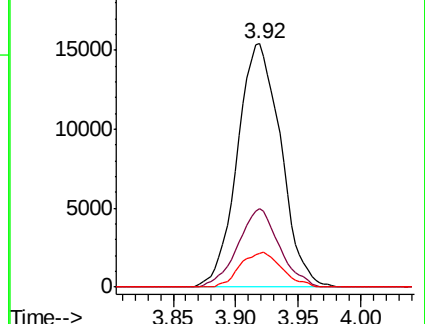
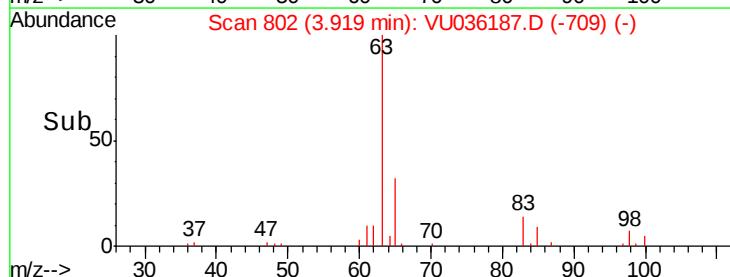
83 14.0 9.8 18.2

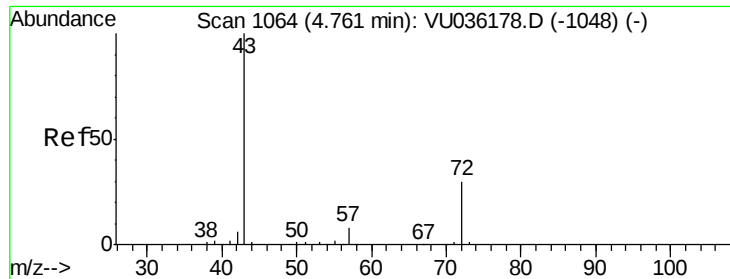


Abundance Ion 63.10 (62.80 to 63.80): VU036187.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU036187.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU036187.D (-782) (-)

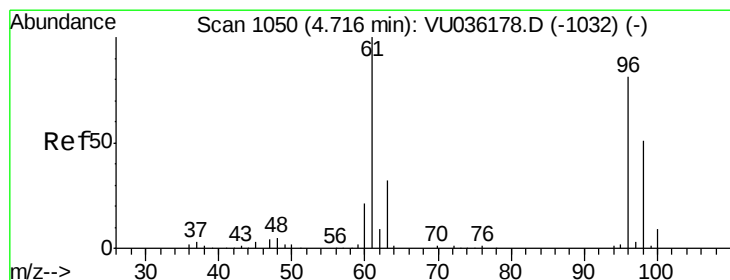
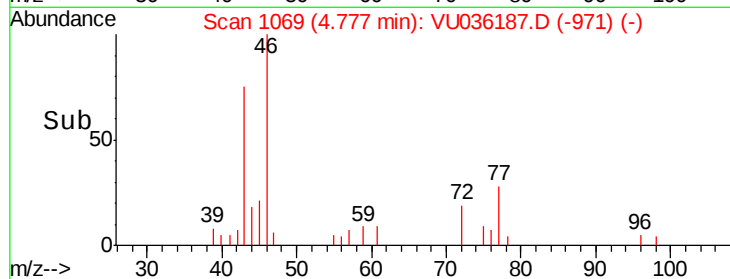
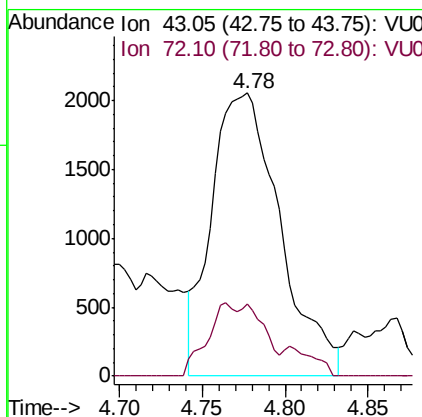
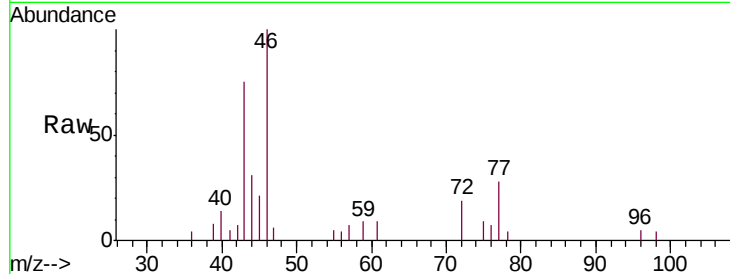




#21  
 2-Butanone  
 Concen: 1.242 ug/L  
 RT: 4.78 min Scan# 1069  
 Delta R.T. 0.02 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

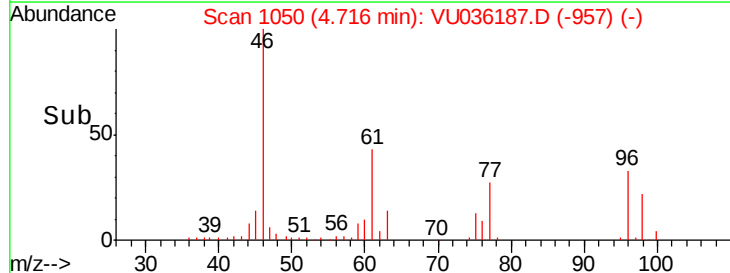
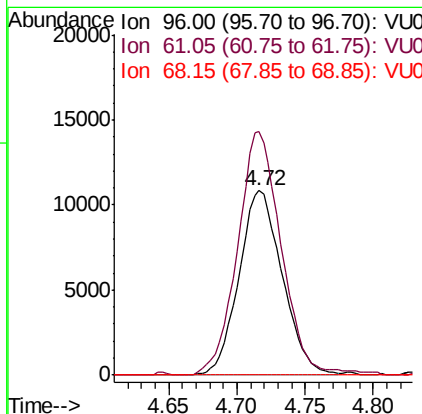
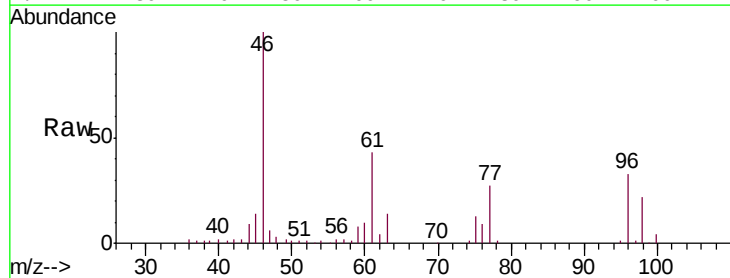
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFQX2

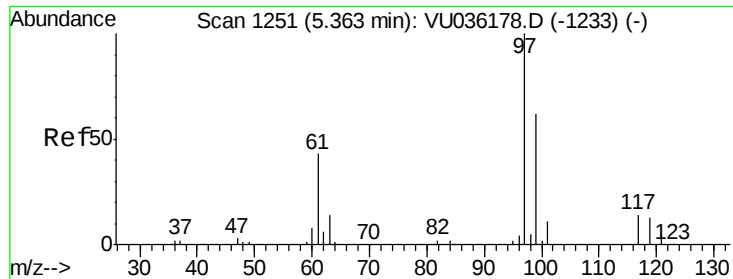
Tgt Ion: 43 Resp: 5922  
 Ion Ratio Lower Upper  
 43 100  
 72 11.1 14.4 43.2#



#22  
 cis-1,2-Dichloroethene  
 Concen: 1.177 ug/L  
 RT: 4.72 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

Tgt Ion: 96 Resp: 23923  
 Ion Ratio Lower Upper  
 96 100  
 61 131.9 83.8 155.6  
 68 0.0 0.0 0.0

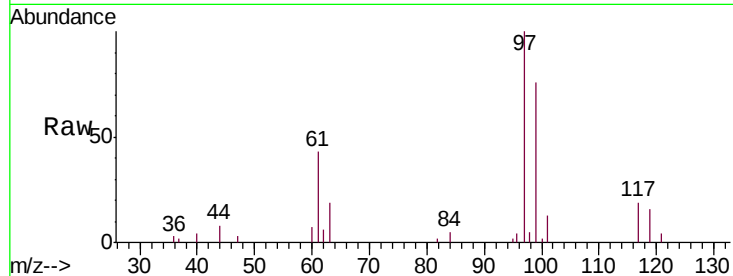




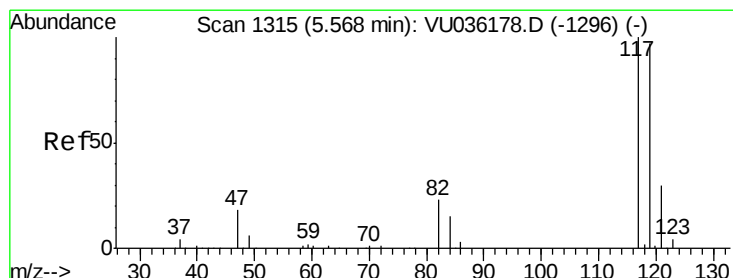
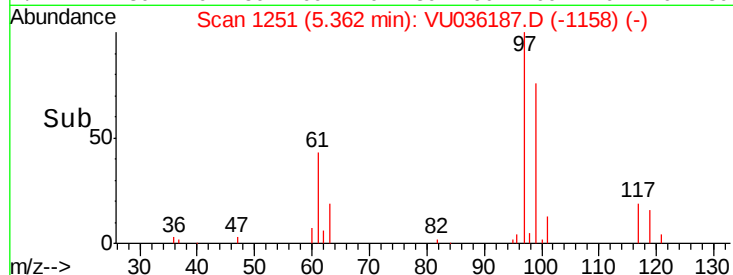
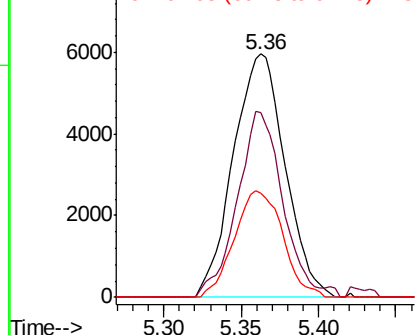
#29  
 1,1,1-Trichloroethane  
 Concen: 0.416 ug/L  
 RT: 5.36 min Scan# 1251  
 Delta R.T. -0.00 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFQX2

Tgt Ion: 97 Resp: 13853  
 Ion Ratio Lower Upper  
 97 100  
 99 66.3 52.6 79.0  
 61 41.0 35.4 53.2

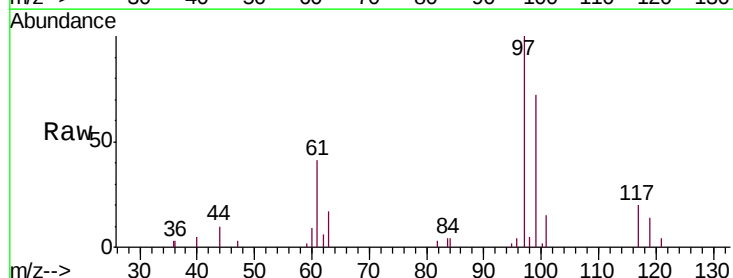


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

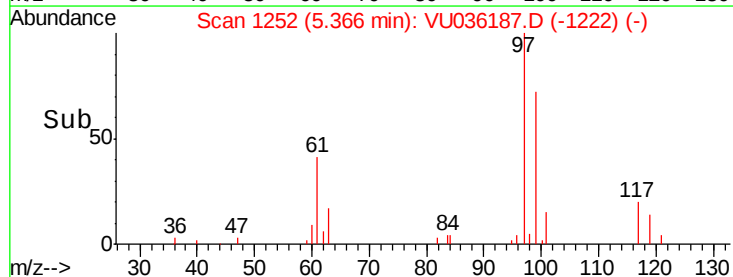
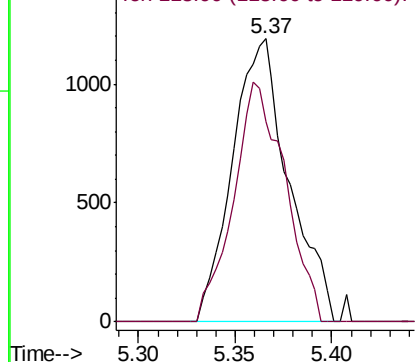


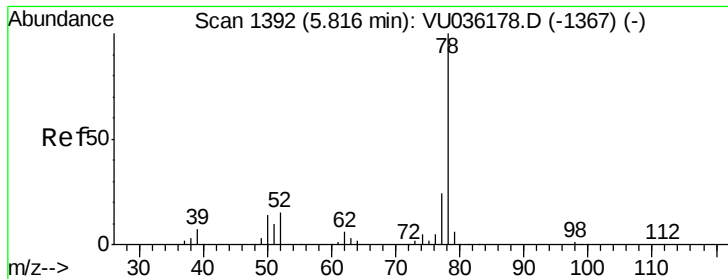
#31  
 Carbon tetrachloride  
 Concen: 0.081 ug/L  
 RT: 5.37 min Scan# 1252  
 Delta R.T. -0.20 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

Tgt Ion: 117 Resp: 2417  
 Ion Ratio Lower Upper  
 117 100  
 119 77.3 76.6 114.8



Abundance Ion 116.90 (116.60 to 117.60): V  
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 0.467 ug/L

RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

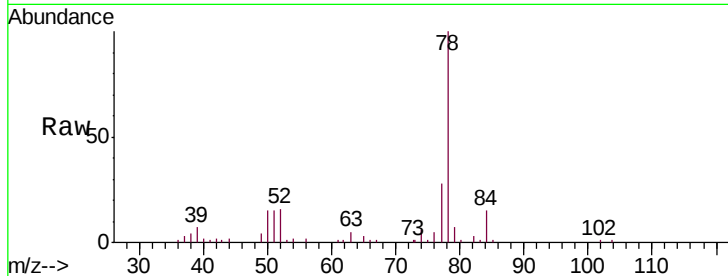
Instrument :

MSVOA\_U

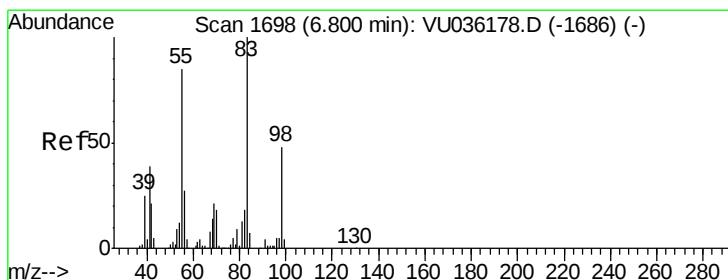
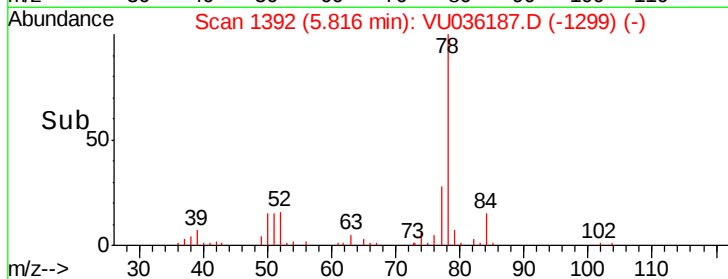
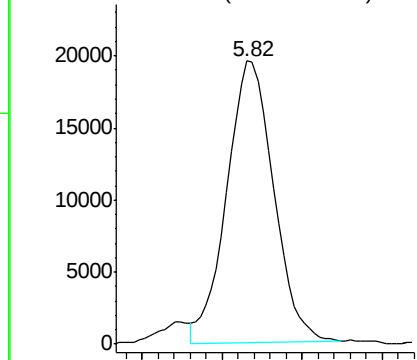
ClientSampled :

BFQX2

Tgt Ion: 78 Resp: 39033



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.847 ug/L

RT: 6.73 min Scan# 1676

Delta R.T. -0.07 min

Lab File: VU036187.D

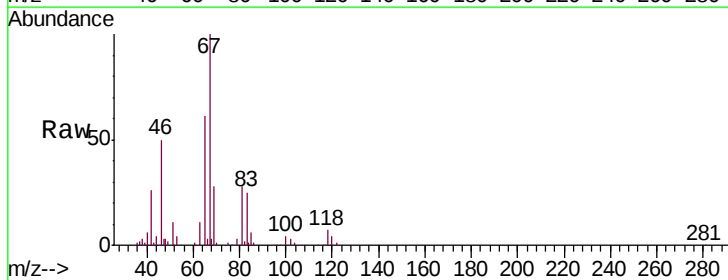
Acq: 13 Dec 2019 07:18

Tgt Ion: 83 Resp: 25807

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.3   | 61.9  | 92.9# |
| 98  | 0.9   | 35.8  | 53.6# |

55 0.3 61.9 92.9#

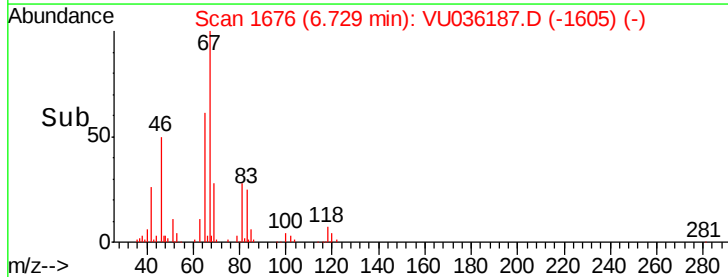
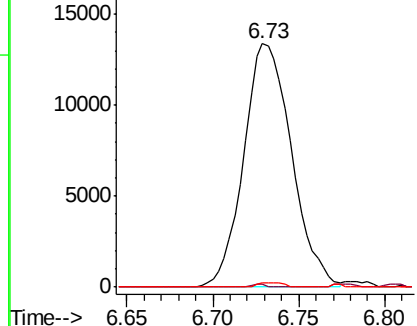
98 0.9 35.8 53.6#

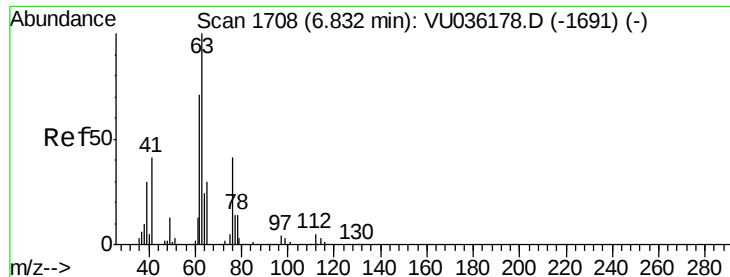


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

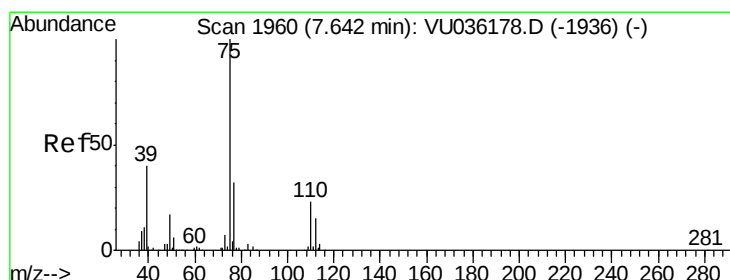
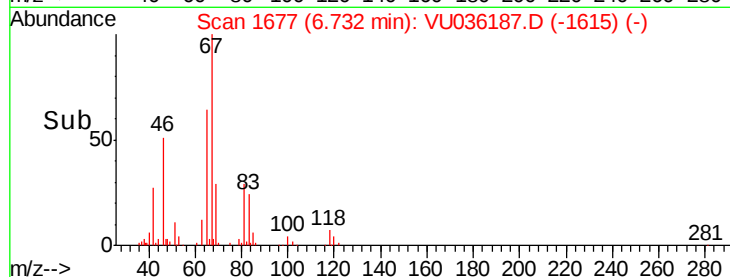
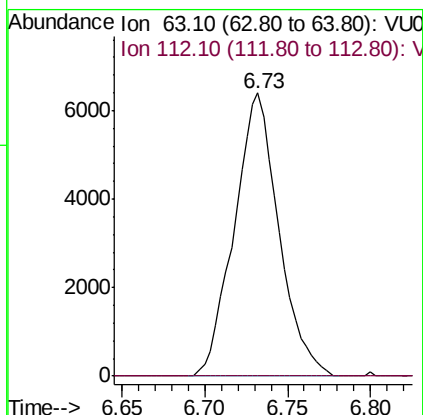
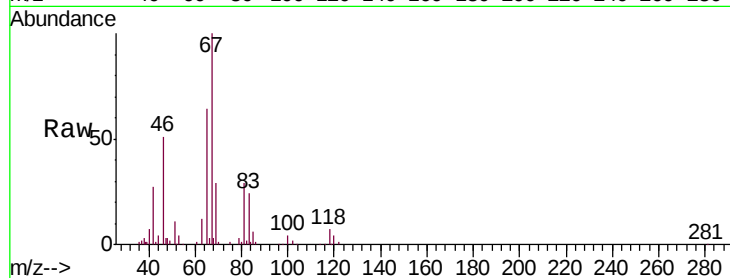




#37  
 1,2-Dichloropropane  
 Concen: 0.553 ug/L  
 RT: 6.73 min Scan# 1677  
 Delta R.T. -0.10 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

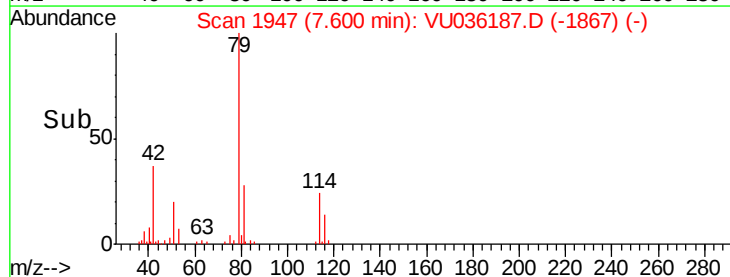
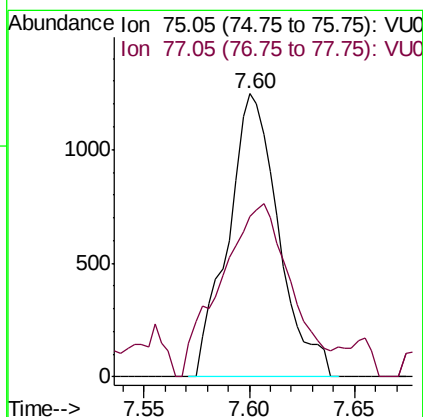
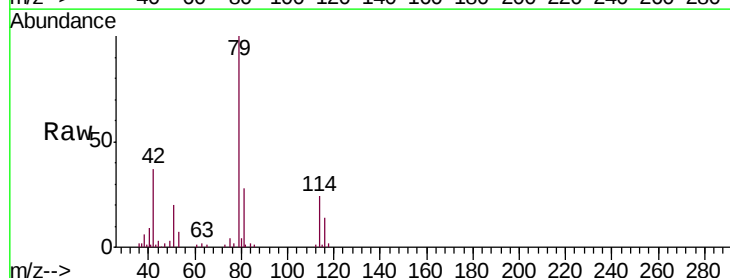
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFQX2

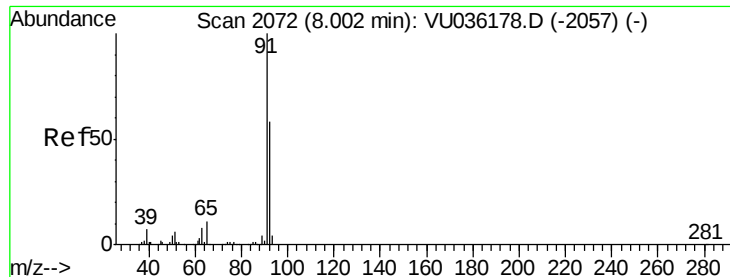
Tgt Ion: 63 Resp: 11917  
 Ion Ratio Lower Upper  
 63 100  
 112 0.5 3.6 5.4#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.073 ug/L  
 RT: 7.60 min Scan# 1947  
 Delta R.T. -0.04 min  
 Lab File: VU036187.D  
 Acq: 13 Dec 2019 07:18

Tgt Ion: 75 Resp: 2069  
 Ion Ratio Lower Upper  
 75 100  
 77 56.5 22.3 41.5#





#42

Toluene

Concen: 0.153 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

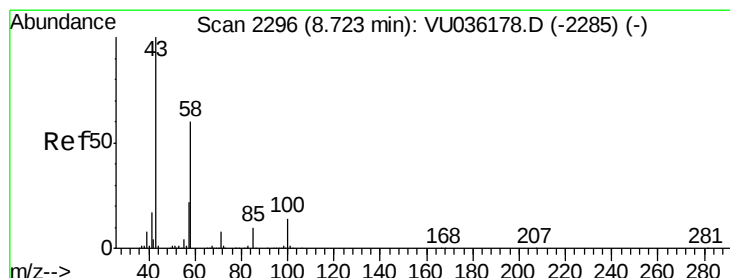
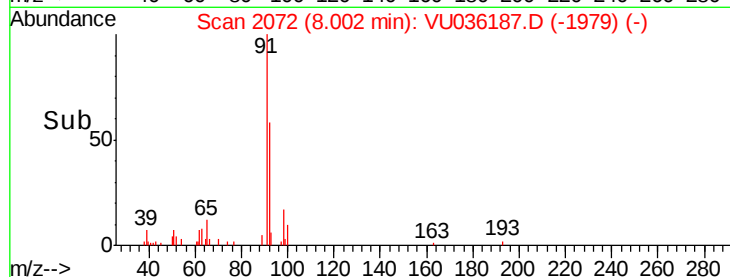
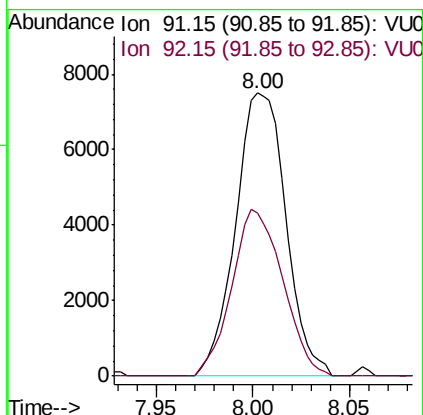
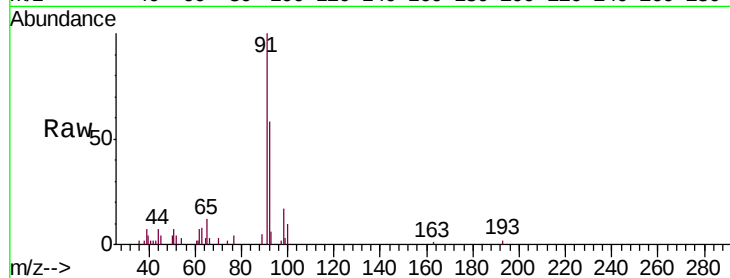
BFQX2

Tgt Ion: 91 Resp: 13562

Ion Ratio Lower Upper

91 100

92 57.5 40.7 75.7



#48

2-Hexanone

Concen: 0.962 ug/L

RT: 8.72 min Scan# 2295

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Tgt Ion: 43 Resp: 7676

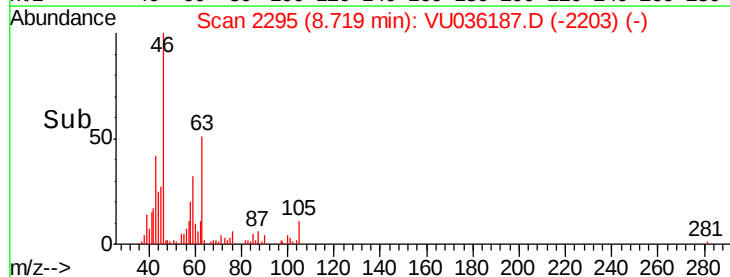
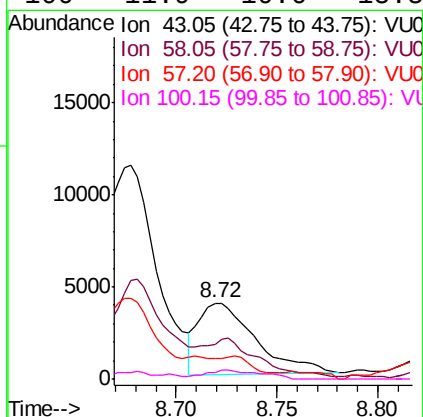
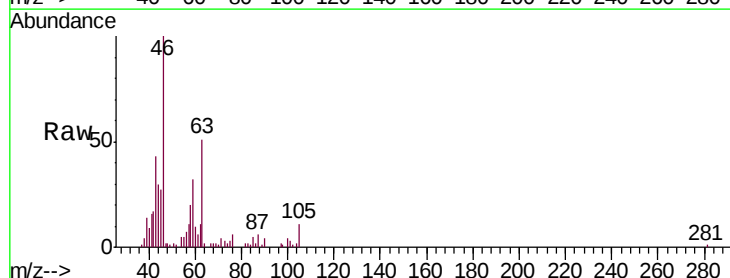
Ion Ratio Lower Upper

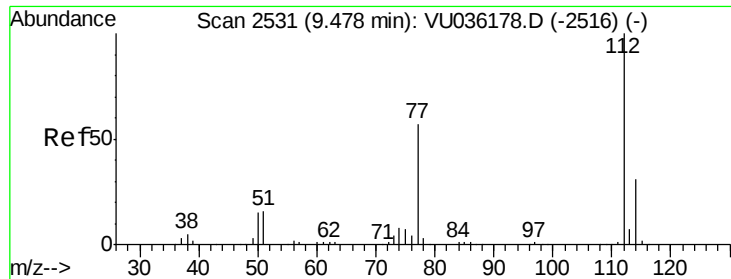
43 100

58 45.2 48.6 72.8#

57 8.8 16.7 25.1#

100 11.9 10.6 15.8





#51

Chlorobenzene

Concen: 1.068 ug/L

RT: 9.47 min Scan# 2530

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

BFQX2

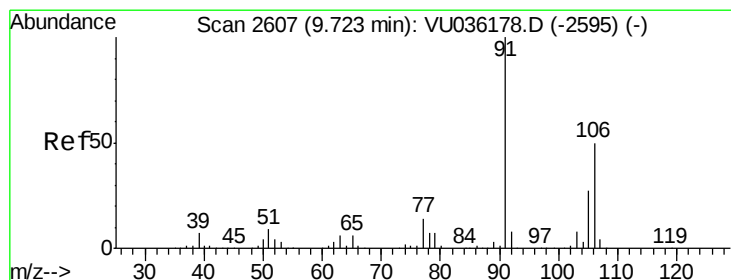
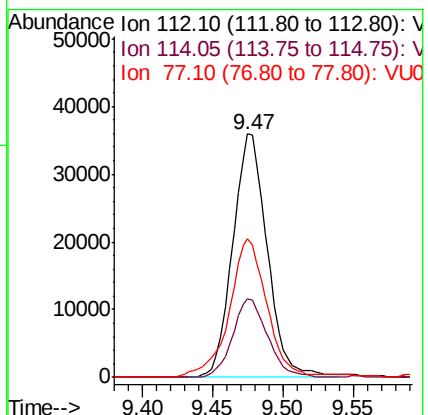
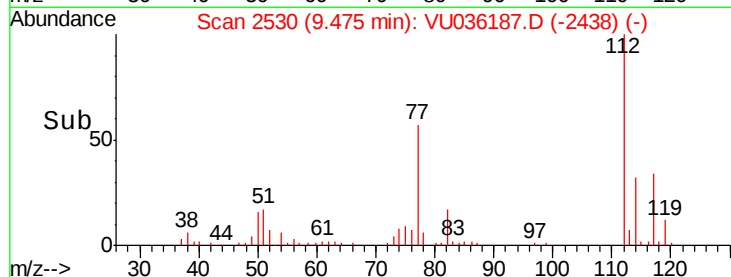
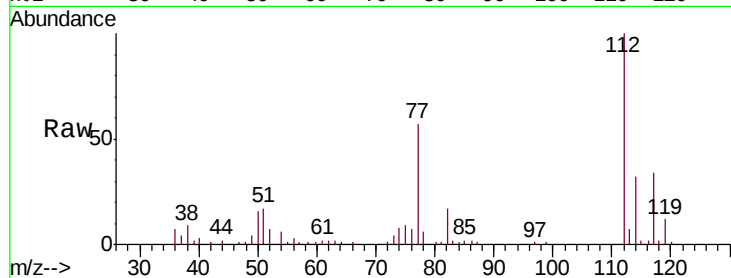
Tgt Ion:112 Resp: 61556

Ion Ratio Lower Upper

112 100

114 32.4 22.2 41.2

77 57.0 45.7 68.5



#53

m,p-Xylene

Concen: 0.180 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036187.D

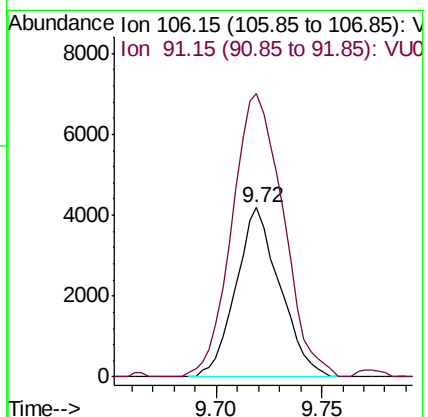
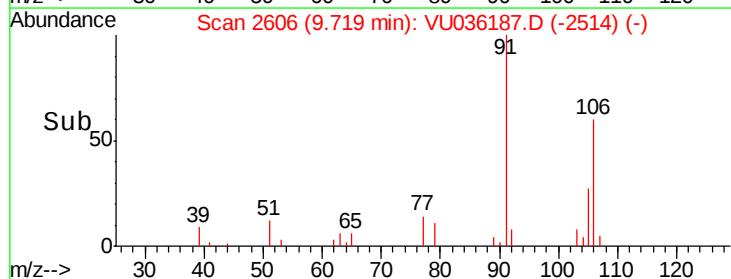
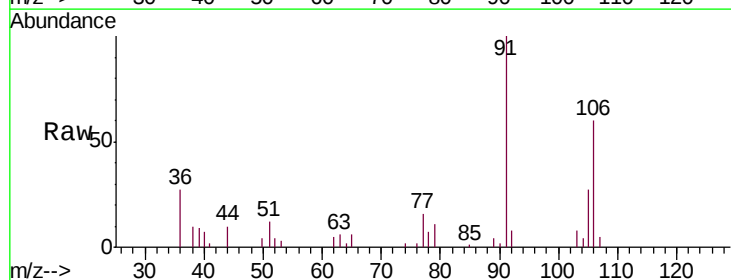
Acq: 13 Dec 2019 07:18

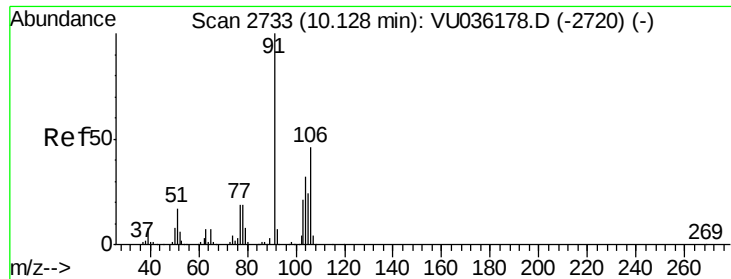
Tgt Ion:106 Resp: 6082

Ion Ratio Lower Upper

106 100

91 167.4 140.4 260.8





#54

o-Xylene

Concen: 0.126 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036187.D

Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

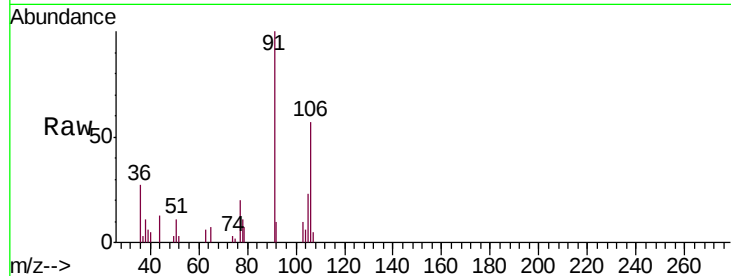
BFQX2

Tgt Ion:106 Resp: 4084

Ion Ratio Lower Upper

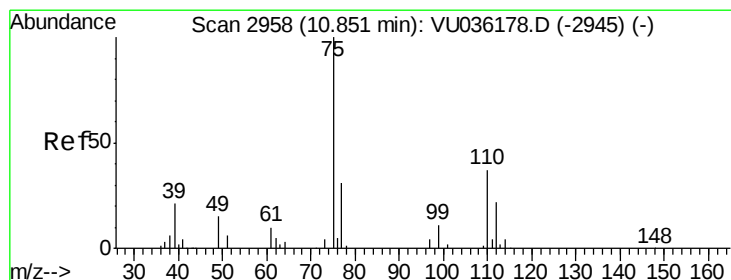
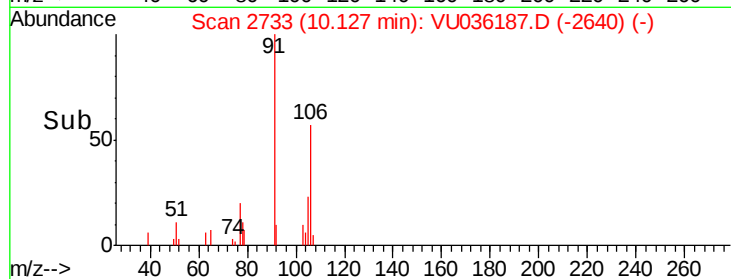
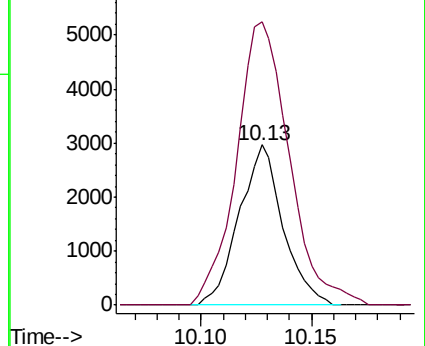
106 100

91 176.5 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#59

1,2,3-Trichloropropane

Concen: 0.930 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.98 min

Lab File: VU036187.D

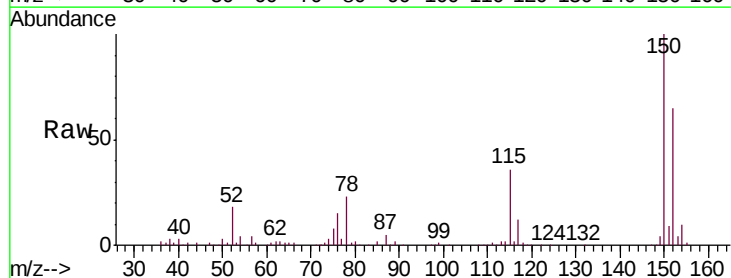
Acq: 13 Dec 2019 07:18

Tgt Ion: 75 Resp: 13221

Ion Ratio Lower Upper

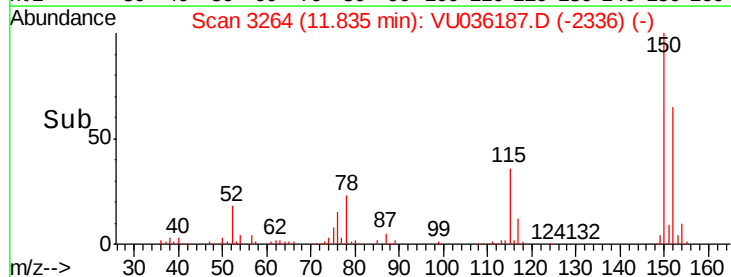
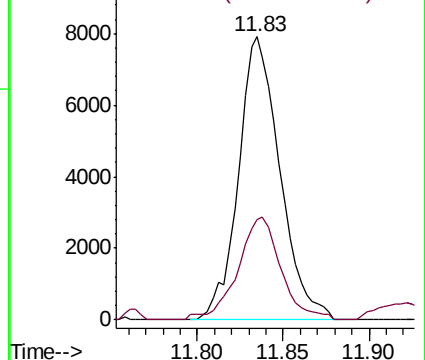
75 100

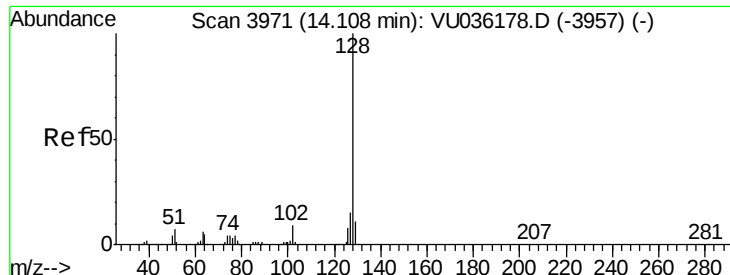
77 37.7 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 0.190 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU036187.D

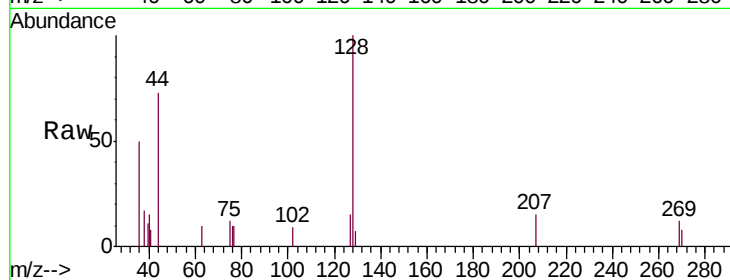
Acq: 13 Dec 2019 07:18

Instrument :

MSVOA\_U

ClientSampleId :

BFQX2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2353  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 3.3   | 8.8   | 13.2# |
| 127      | 14.4  | 11.3  | 16.9  |

