

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\  
 Data File : VU034762.D  
 Acq On : 24 Sep 2019 02:47  
 Operator : JC/SP  
 Sample : K4932-19  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDF0

Quant Time: Sep 24 06:52:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Sep 24 03:36:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 483391   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 452257   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 211241   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 202109   | 40.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.68%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 171243   | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 279032   | 33.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.60%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 487638   | 128.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 128.57% |
| 24) Chloroform-d               | 4.62    | 84    | 362524   | 50.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.78% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 270177   | 51.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.18% |
| 32) Benzene-d6                 | 5.32    | 84    | 723714   | 51.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.26% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 264327   | 53.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.90% |
| 41) Toluene-d8                 | 7.54    | 98    | 684798   | 51.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.70% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 119489   | 50.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.84% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 317878   | 129.18   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 129.18% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 356066   | 52.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.76% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 237649   | 53.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.30% |

## Target Compounds

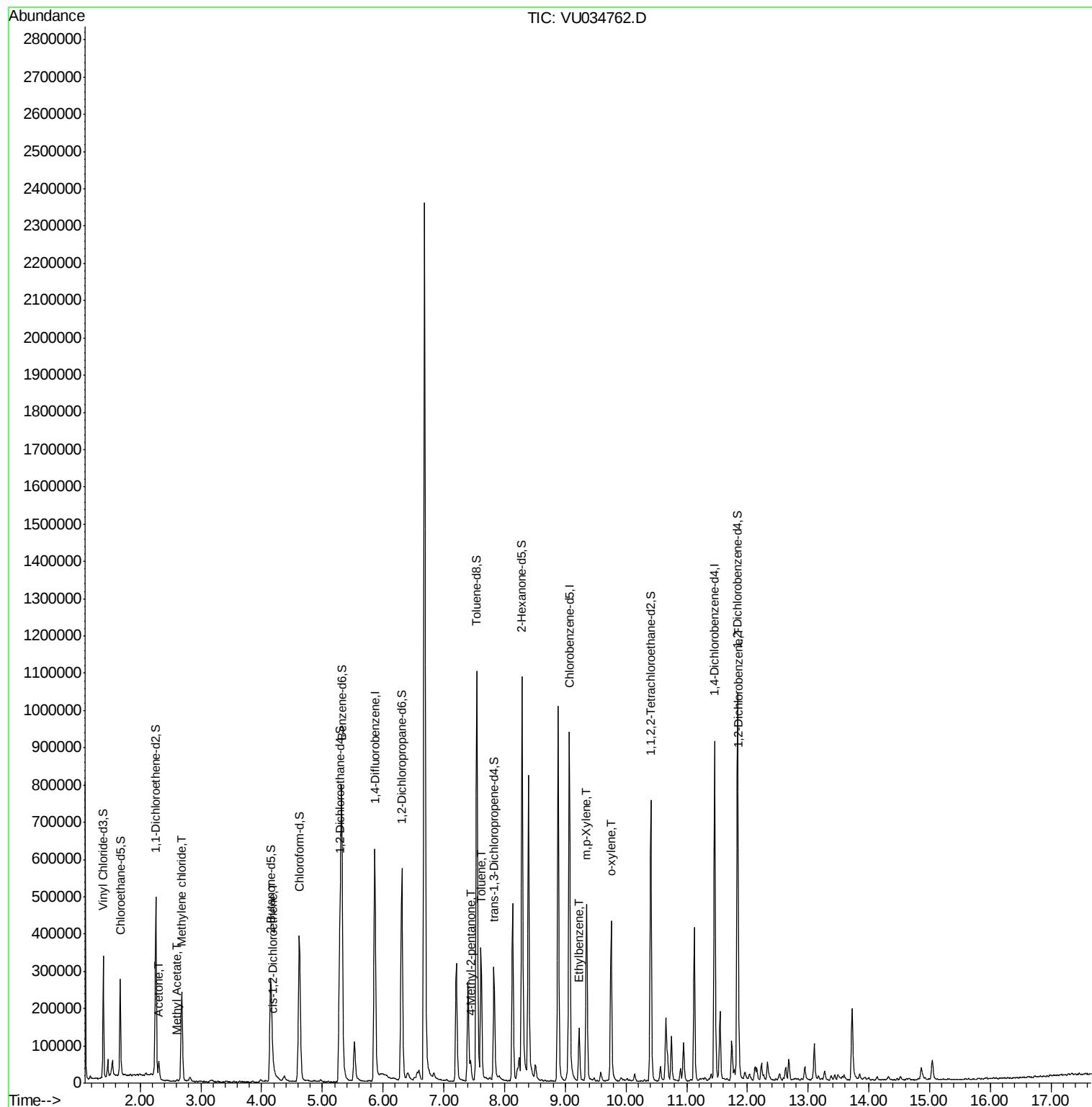
|                            |       |     |        |        | Ovalue    |
|----------------------------|-------|-----|--------|--------|-----------|
| 13) Acetone                | 2.31  | 43  | 51514  | 11.676 | ug/L 98   |
| 15) Methyl Acetate         | 2.61  | 43  | 6444   | 1.093  | ug/L 96   |
| 16) Methylene chloride     | 2.68  | 84  | 93318  | 23.294 | ug/L 97   |
| 20) cis-1,2-Dichloroethene | 4.20  | 96  | 6667   | 1.649  | ug/L 93   |
| 40) 4-Methyl-2-pentanone   | 7.44  | 43  | 33397  | 3.745  | ug/L # 89 |
| 42) Toluene                | 7.62  | 91  | 244061 | 14.398 | ug/L 99   |
| 52) Ethylbenzene           | 9.23  | 91  | 95107  | 4.982  | ug/L 99   |
| 53) m,p-Xylene             | 9.35  | 106 | 124148 | 18.362 | ug/L 99   |
| 54) o-xylene               | 9.76  | 106 | 84779  | 12.677 | ug/L 99   |
| 65) 1,2-Dichlorobenzene    | 11.85 | 146 | 12088  | 1.635  | ug/L # 86 |

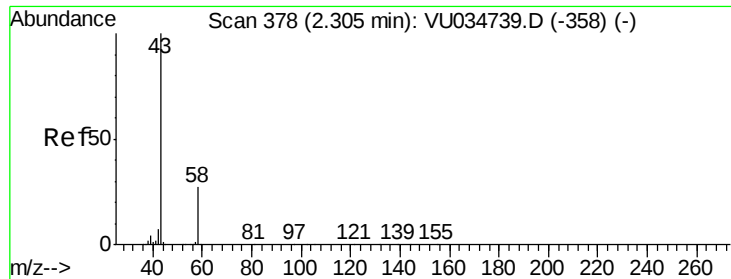
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092319\  
Data File : VU034762.D  
Acq On : 24 Sep 2019 02:47  
Operator : JC/SP  
Sample : K4932-19  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDFO

Quant Time: Sep 24 06:52:44 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Sep 24 03:36:55 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 11.676 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034762.D

Acq: 24 Sep 2019 02:47

Instrument :

MSVOA\_U

ClientSampled :

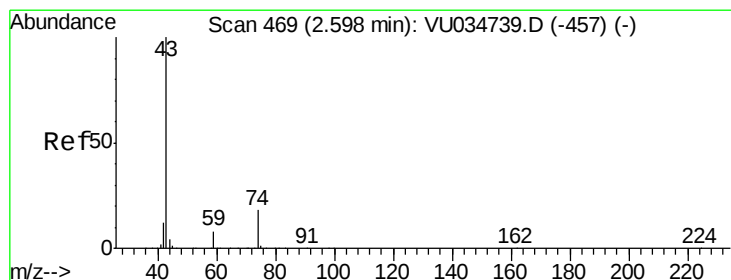
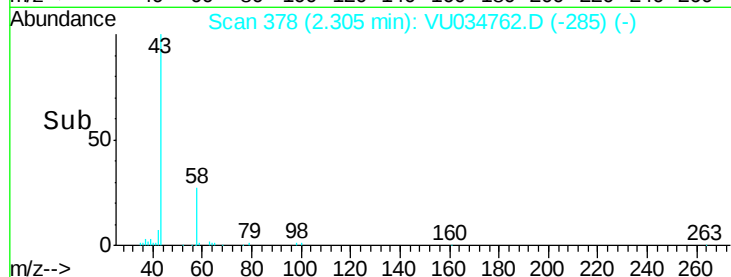
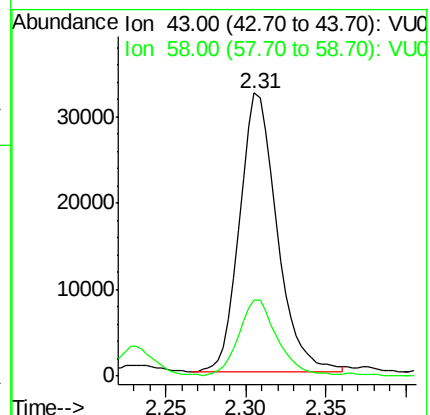
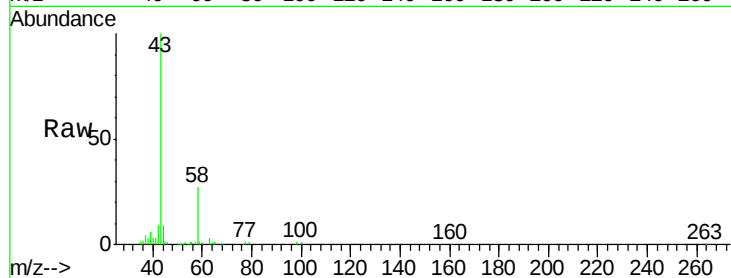
BFDFO

Tot Ion: 43 Resp: 51514

Ion Ratio Lower Upper

43 100

58 27.8 0.0 53.4



#15

Methyl Acetate

Concen: 1.093 ug/L

RT: 2.61 min Scan# 472

Delta R.T. 0.01 min

Lab File: VU034762.D

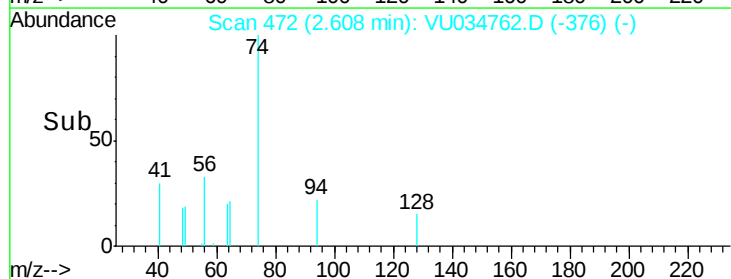
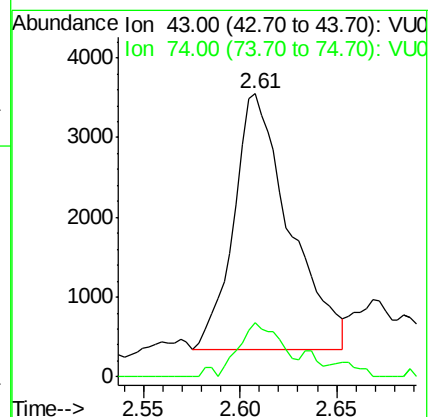
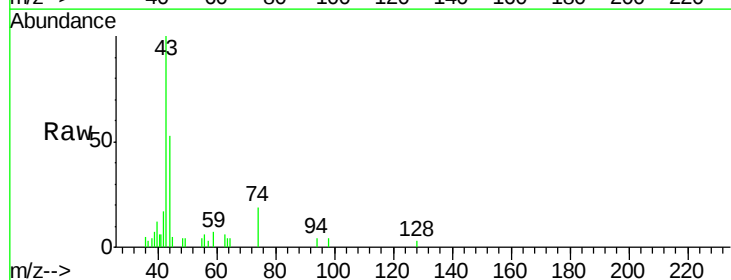
Acq: 24 Sep 2019 02:47

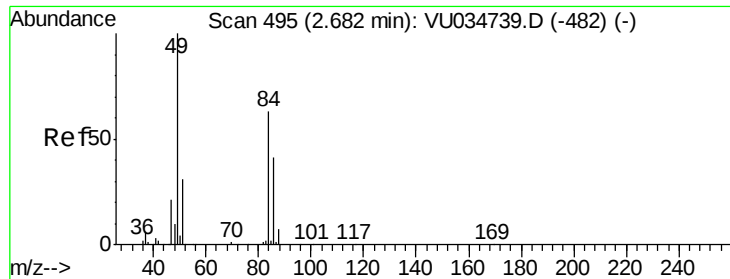
Tgt Ion: 43 Resp: 6444

Ion Ratio Lower Upper

43 100

74 16.2 14.4 21.6

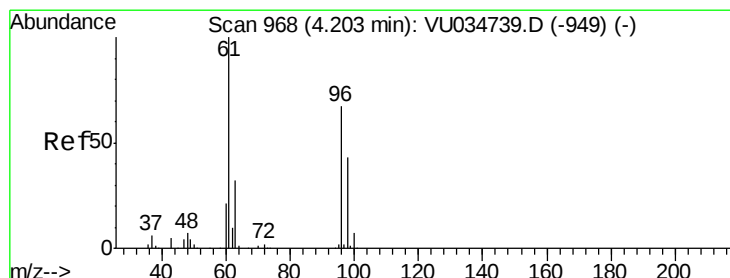
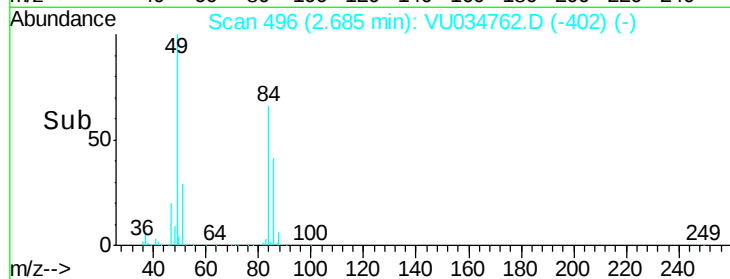
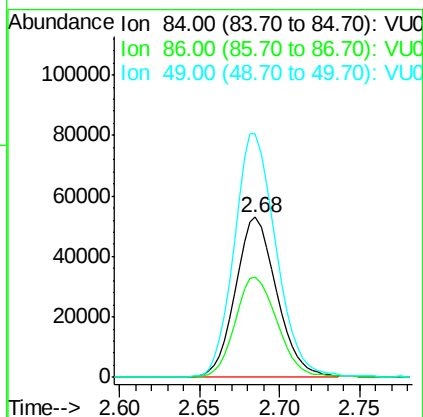
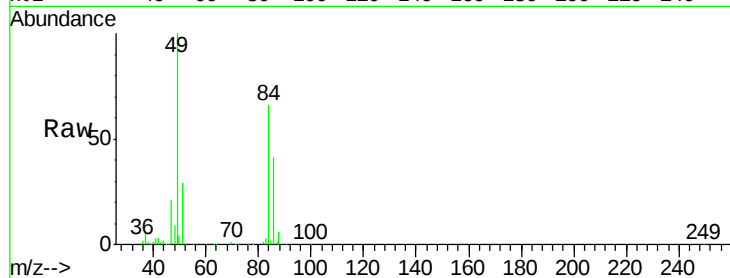




#16  
Methvlene chloride  
Concen: 23.294 ug/L  
RT: 2.68 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU034762.D  
Acq: 24 Sep 2019 02:47

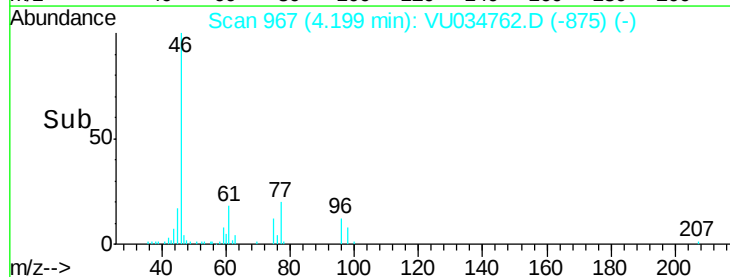
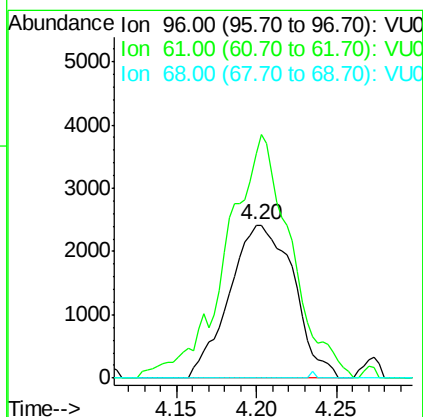
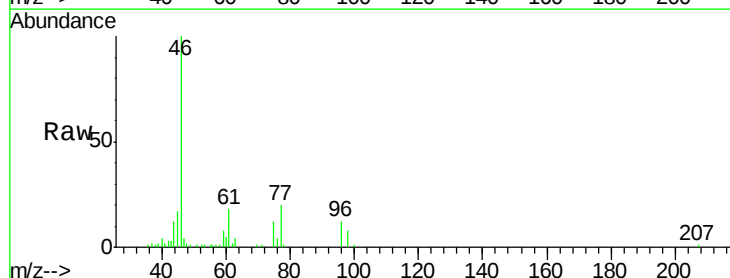
Instrument :  
MSVOA\_U  
ClientSampled :  
BDFD0

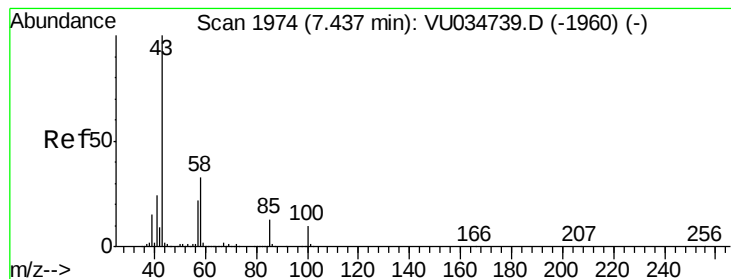
Tot Ion: 84 Resp: 93318  
Ion Ratio Lower Upper  
84 100  
86 62.6 43.0 80.0  
49 151.8 109.7 203.7



#20  
cis-1,2-Dichloroethene  
Concen: 1.649 ug/L  
RT: 4.20 min Scan# 967  
Delta R.T. -0.00 min  
Lab File: VU034762.D  
Acq: 24 Sep 2019 02:47

Tgt Ion: 96 Resp: 6667  
Ion Ratio Lower Upper  
96 100  
61 146.7 108.8 202.2  
68 0.0 0.0 0.0





#40

4-Methyl-2-pentanone

Concen: 3.745 ug/L

RT: 7.44 min Scan# 1976

Delta R.T. 0.01 min

Lab File: VU034762.D

Acq: 24 Sep 2019 02:47

Instrument :

MSVOA\_U

ClientSampleID :

BDF0

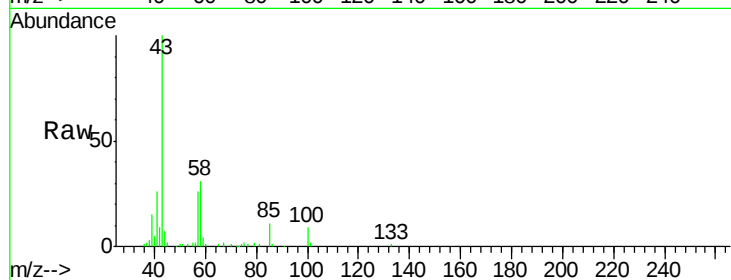
Tot Ion: 43 Resp: 33397

Ion Ratio Lower Upper

43 100

58 39.1 25.2 37.8#

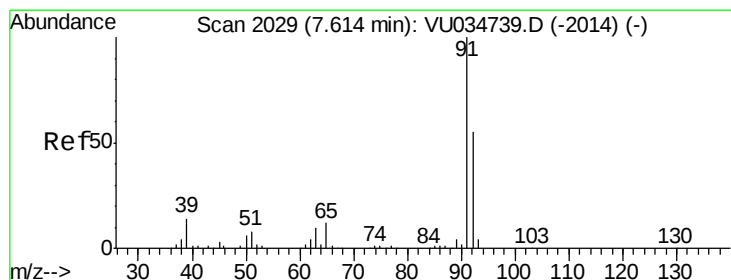
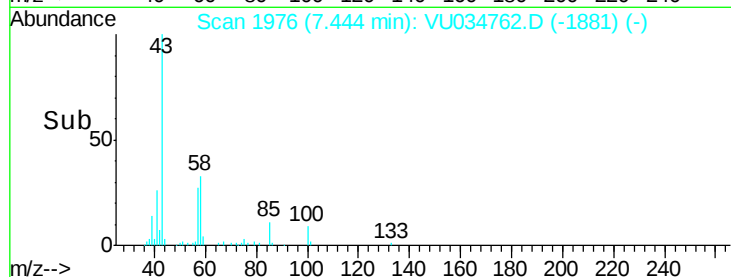
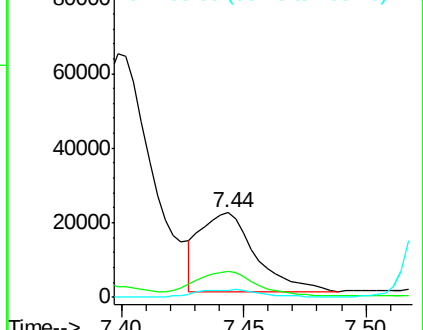
100 11.0 7.7 11.5



Abundance Ion 43.00 (42.70 to 43.70): VU034762.D (-1936) (-)

Ion 58.00 (57.70 to 58.70): VU034762.D (-1936) (-)

Ion 100.00 (99.70 to 100.70): VU034762.D (-1936) (-)



#42

Toluene

Concen: 14.398 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034762.D

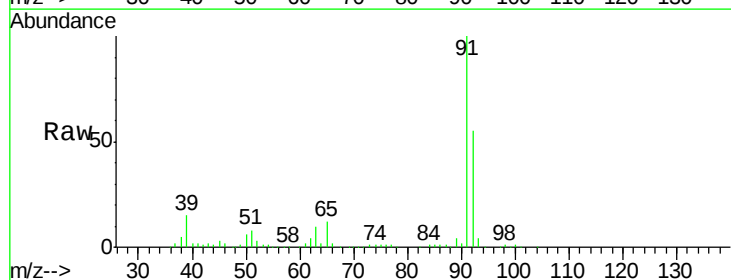
Acq: 24 Sep 2019 02:47

Tgt Ion: 91 Resp: 244061

Ion Ratio Lower Upper

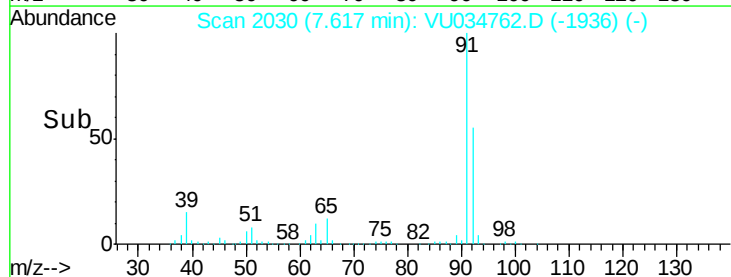
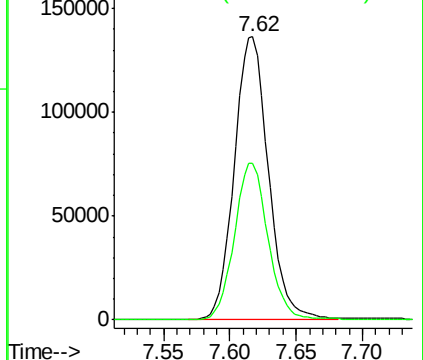
91 100

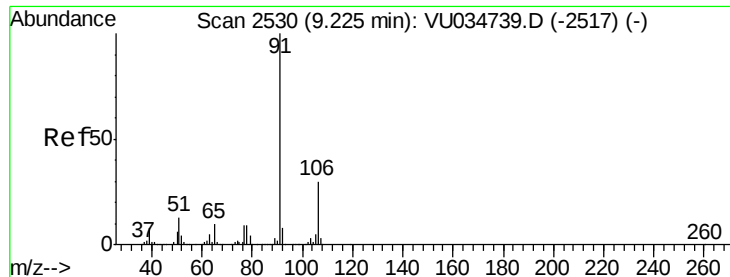
92 55.3 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034762.D (-1936) (-)

Ion 92.00 (91.70 to 92.70): VU034762.D (-1936) (-)





#52

Ethylbenzene

Concen: 4.982 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034762.D

Acq: 24 Sep 2019 02:47

Instrument :

MSVOA\_U

ClientSampleId :

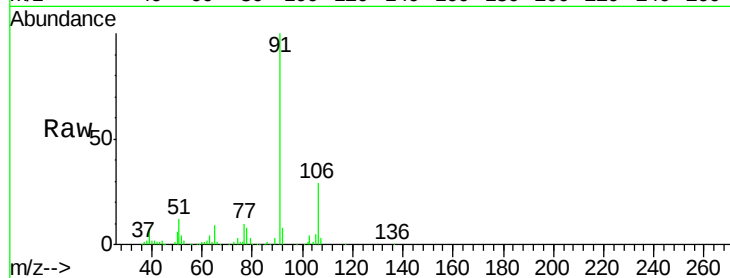
BFDFO

Tot Ion: 91 Resp: 95107

Ion Ratio Lower Upper

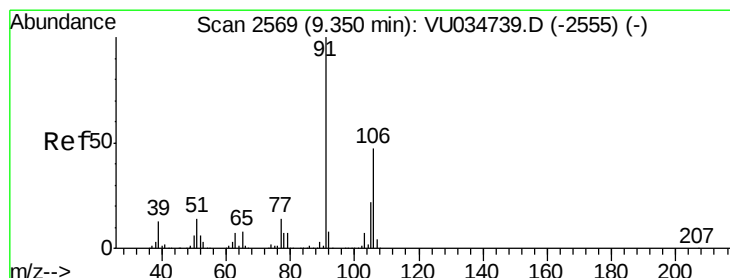
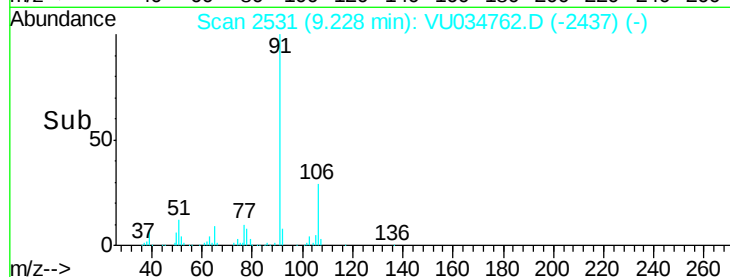
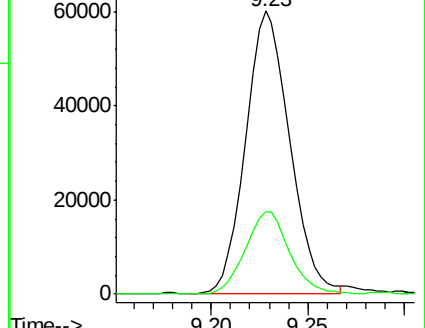
91 100

106 29.1 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2517) (-)

Ion 106.00 (105.70 to 106.70): VU034739.D (-2517) (-)



#53

m,p-Xylene

Concen: 18.362 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU034762.D

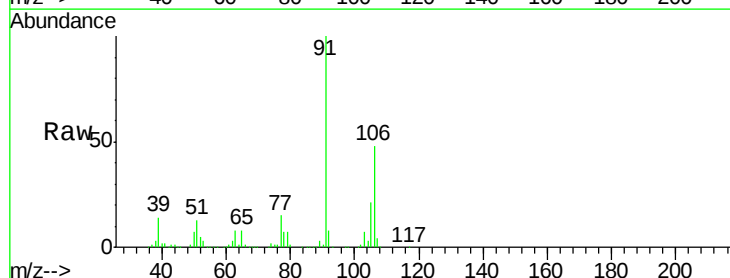
Acq: 24 Sep 2019 02:47

Tgt Ion: 106 Resp: 124148

Ion Ratio Lower Upper

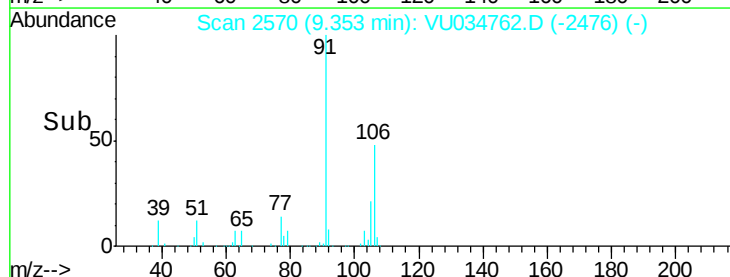
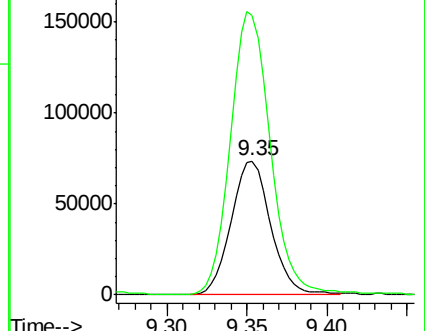
106 100

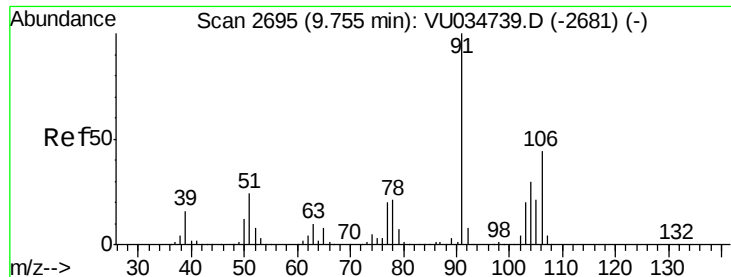
91 208.9 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): VU034739.D (-2555) (-)

Ion 91.00 (90.70 to 91.70): VU034739.D (-2555) (-)





#54

o-xylene

Concen: 12.677 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034762.D

Acq: 24 Sep 2019 02:47

Instrument :

MSVOA\_U

ClientSampled :

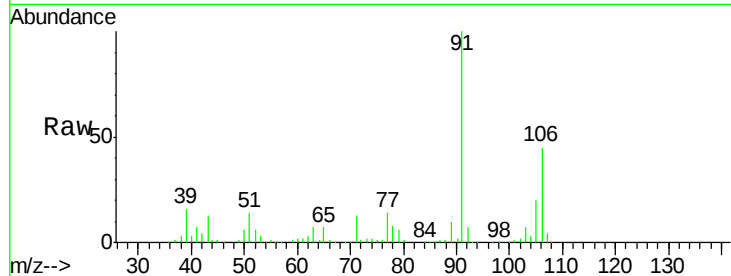
BDFD0

Tot Ion:106 Resp: 84779

Ion Ratio Lower Upper

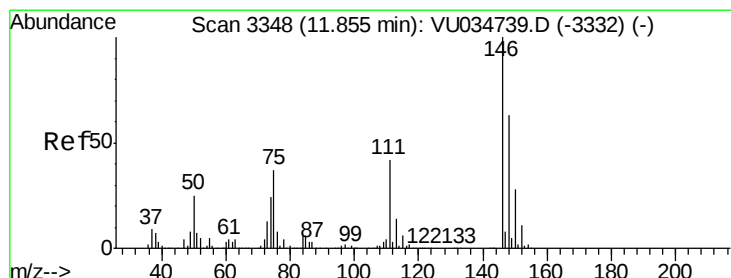
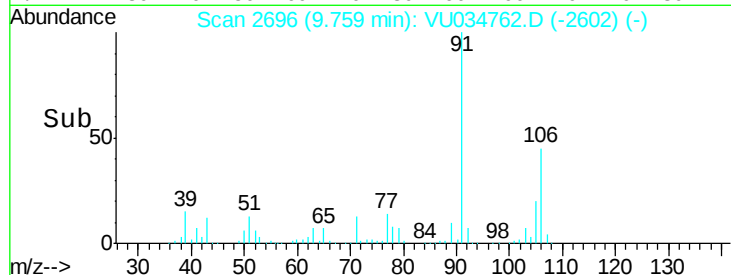
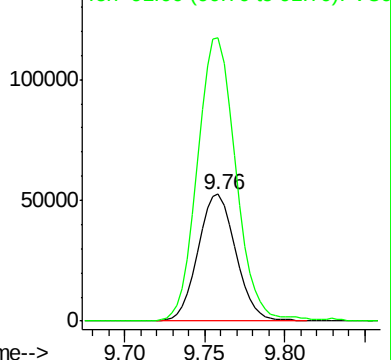
106 100

91 223.6 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

1,2-Dichlorobenzene

Concen: 1.635 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034762.D

Acq: 24 Sep 2019 02:47

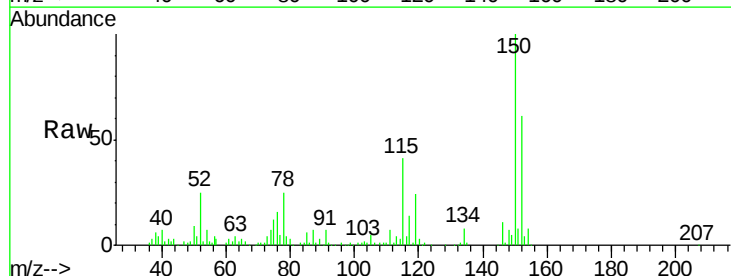
Tgt Ion:146 Resp: 12088

Ion Ratio Lower Upper

146 100

111 60.5 35.2 52.8#

148 60.8 53.0 79.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

