

Data File : VU034812.D  
Acq On : 25 Sep 2019 19:10  
Operator : JC/SP  
Sample : K4983-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDF1

Quant Time: Sep 26 06:59:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Sep 26 06:56:48 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 438398   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 426991   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 204012   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 194690   | 43.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.76%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 172841   | 49.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.66%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 264031   | 34.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.48%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 422448   | 122.81   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 122.81% |
| 24) Chloroform-d               | 4.62    | 84    | 331304   | 50.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.56% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 228990   | 47.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.48%  |
| 32) Benzene-d6                 | 5.32    | 84    | 694465   | 52.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.94% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 245059   | 52.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.96% |
| 41) Toluene-d8                 | 7.54    | 98    | 659291   | 52.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.72% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 107043   | 48.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.64%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 282433   | 121.56   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 121.56% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 335732   | 52.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.62% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 244606   | 57.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 114.36% |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 2456   | 0.822  | ug/L # | 26     |
| 13) Acetone                    | 2.31  | 43  | 50894  | 12.720 | ug/L   | 89     |
| 16) Methylene chloride         | 2.68  | 84  | 61957  | 17.053 | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 4.20  | 96  | 11090  | 3.024  | ug/L   | 66     |
| 29) Cyclohexane                | 4.97  | 56  | 16543  | 2.347  | ug/L   | 90     |
| 33) Benzene                    | 5.37  | 78  | 104077 | 7.028  | ug/L   | 100    |
| 35) Methylcyclohexane          | 6.40  | 83  | 16481  | 2.655  | ug/L   | 98     |
| 42) Toluene                    | 7.61  | 91  | 672617 | 42.027 | ug/L   | 98     |
| 48) 2-Hexanone                 | 8.29  | 43  | 116485 | 17.716 | ug/L # | 55     |
| 52) Ethylbenzene               | 9.23  | 91  | 504200 | 27.976 | ug/L   | 97     |
| 53) m,p-Xylene                 | 9.35  | 106 | 550464 | 86.233 | ug/L   | 96     |
| 54) o-xylene                   | 9.76  | 106 | 453298 | 71.795 | ug/L   | 97     |
| 55) Styrene                    | 9.76  | 104 | 27384  | 2.562  | ug/L # | 1      |
| 56) Isopropylbenzene           | 10.14 | 105 | 47546  | 2.793  | ug/L   | 97     |
| 63) 1,4-Dichlorobenzene        | 11.48 | 146 | 6088   | 0.846  | ug/L   | 95     |
| 65) 1,2-Dichlorobenzene        | 11.85 | 146 | 41542  | 5.819  | ug/L   | 94     |
| 69) Naphthalene                | 13.72 | 128 | 795040 | 61.694 | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092519\  
Quantitation Report (Not Reviewed)

Data File : VU034812.D  
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ClientSampleId :  
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Quant Time: Sep 26 06:59:49 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Sep 26 06:56:48 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

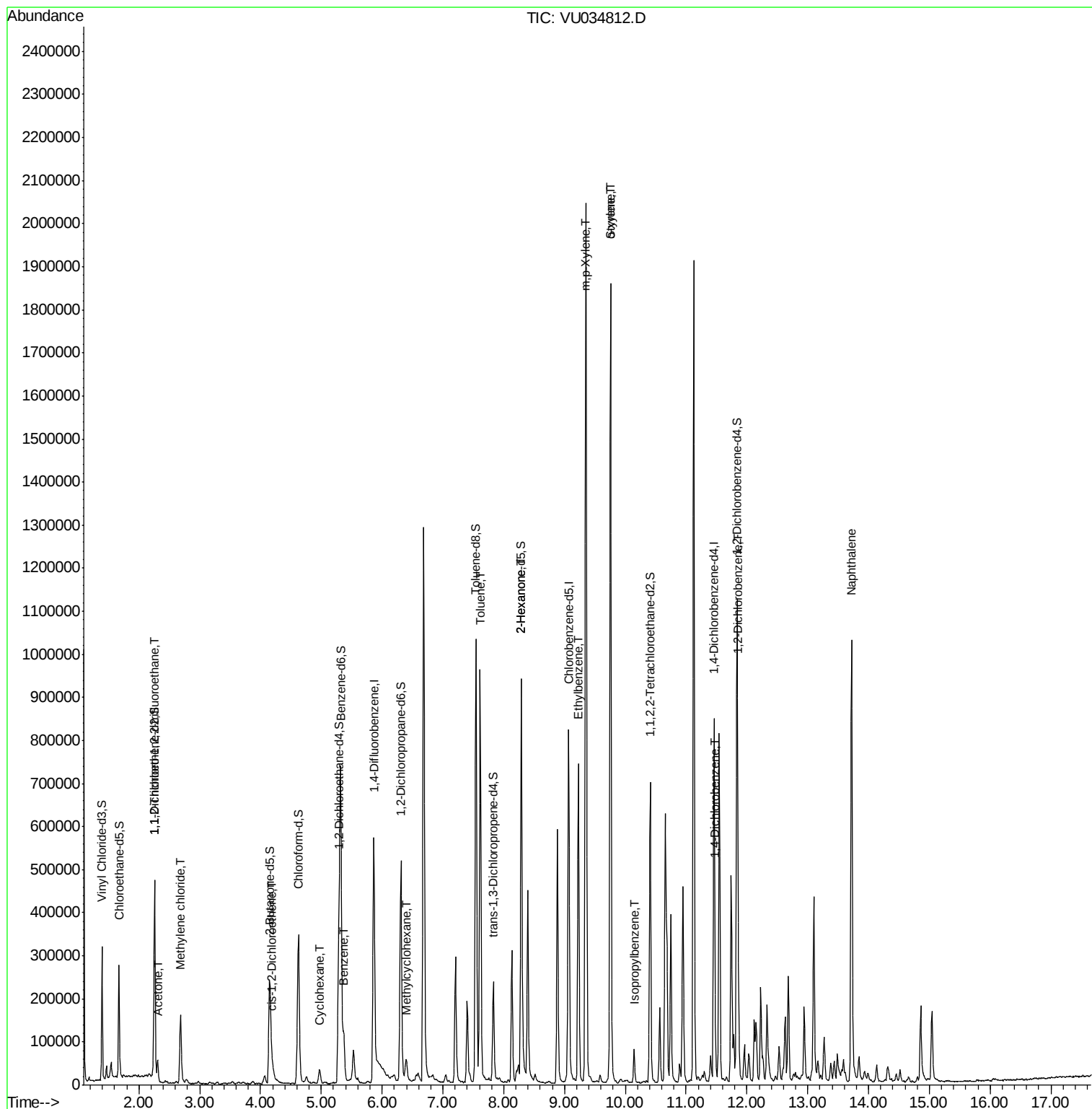
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|-------|-------|-------|-------|-------|-------|-------|
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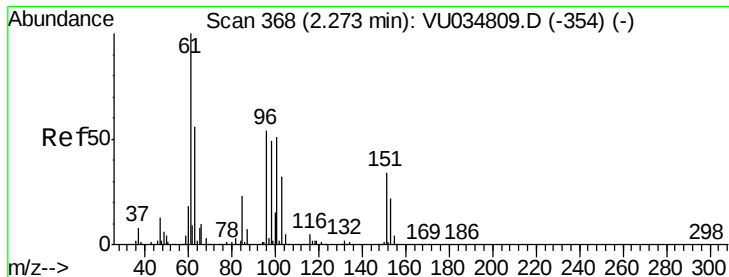
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.822 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.02 min

Lab File: VU034812.D

Acq: 25 Sep 2019 19:10

Instrument :

MSVOA\_U

ClientSampleId :

BPDF1

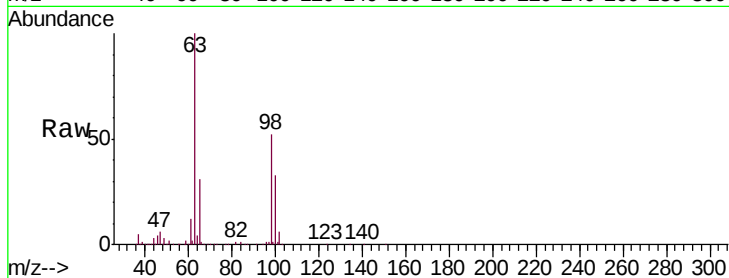
Tgt Ion: 101 Resp: 2456

Ion Ratio Lower Upper

101 100

85 1.7 39.0 58.4#

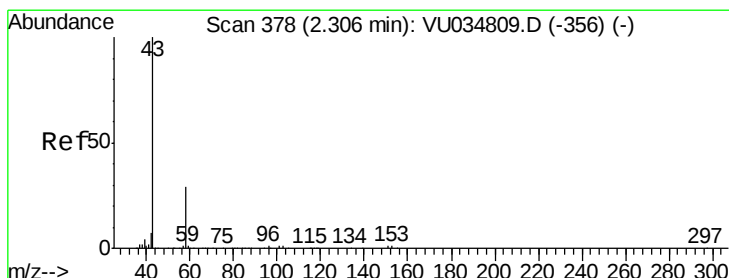
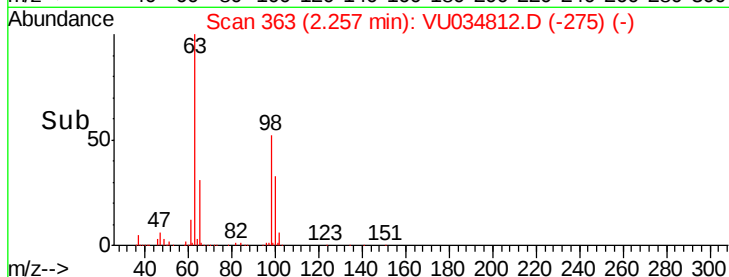
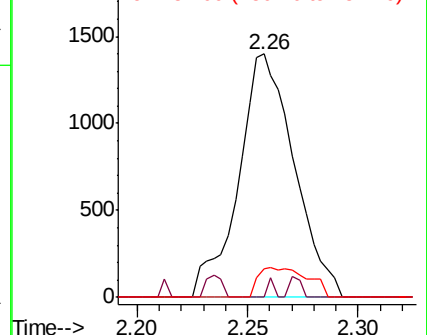
151 4.8 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 12.720 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034812.D

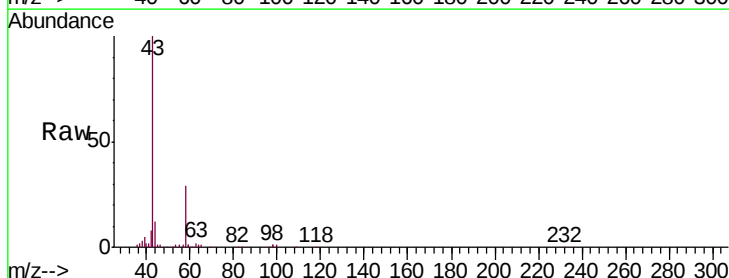
Acq: 25 Sep 2019 19:10

Tgt Ion: 43 Resp: 50894

Ion Ratio Lower Upper

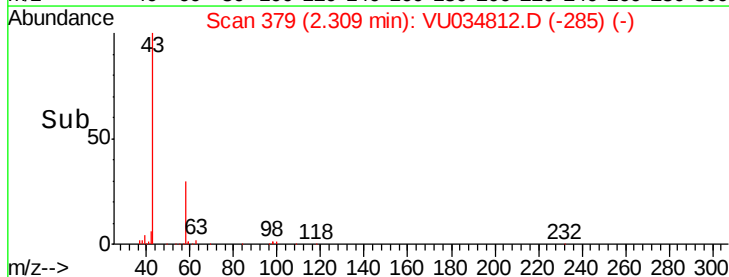
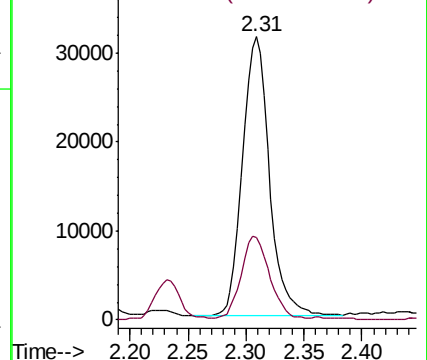
43 100

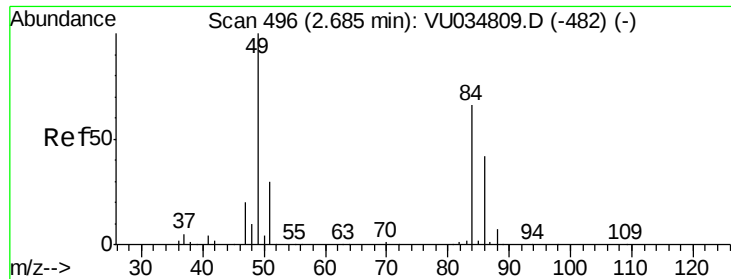
58 32.2 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

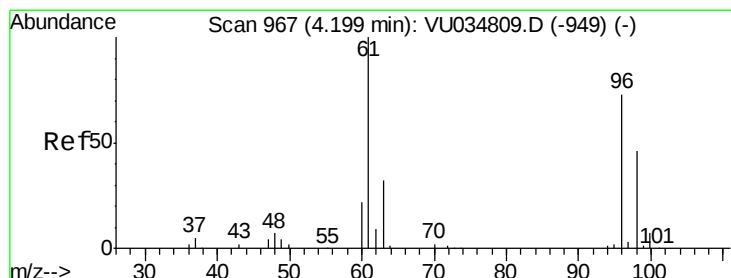
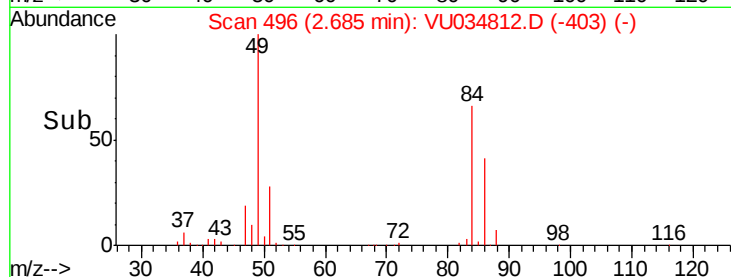
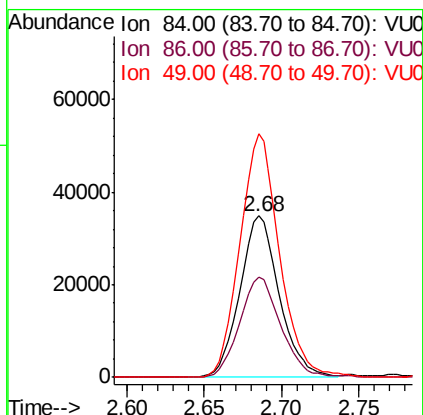
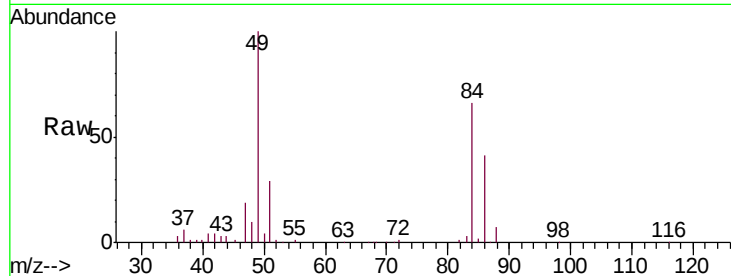




#16  
Methylene chloride  
Concen: 17.053 ug/L  
RT: 2.68 min Scan# 496  
Delta R.T. -0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

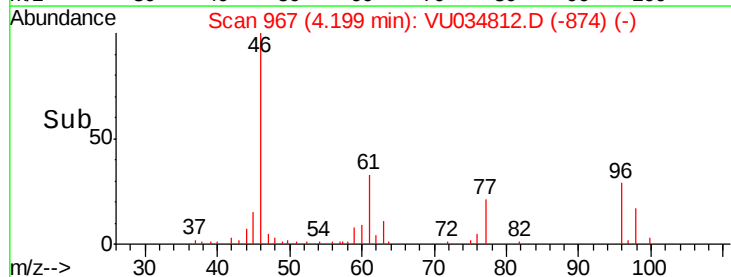
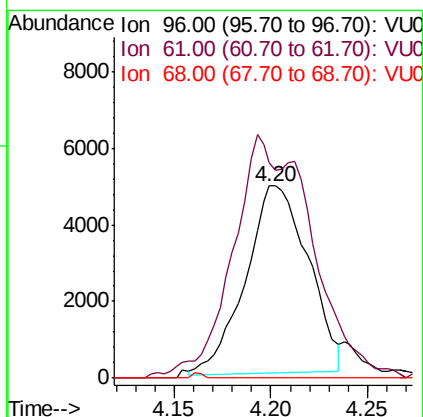
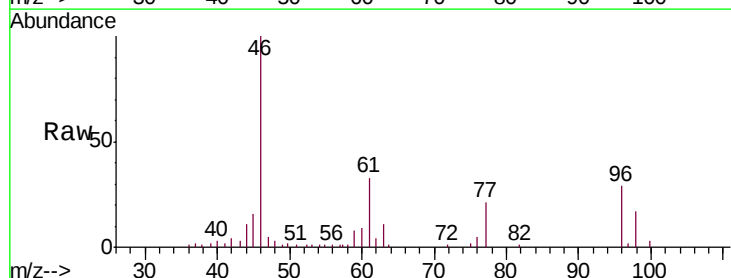
Instrument :  
MSVOA\_U  
ClientSampleId :  
BPDF1

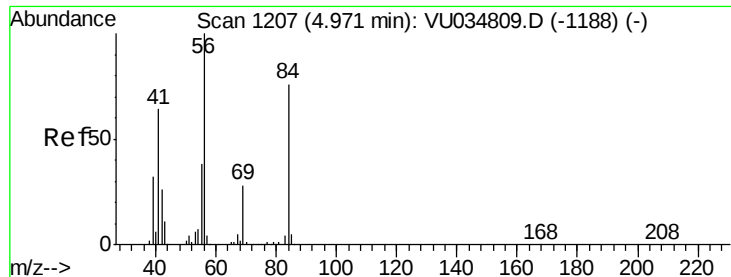
Tgt Ion: 84 Resp: 61957  
Ion Ratio Lower Upper  
84 100  
86 61.9 43.0 80.0  
49 150.6 109.7 203.7



#20  
cis-1,2-Dichloroethene  
Concen: 3.024 ug/L  
RT: 4.20 min Scan# 967  
Delta R.T. -0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

Tgt Ion: 96 Resp: 11090  
Ion Ratio Lower Upper  
96 100  
61 111.9 108.8 202.2  
68 0.0 0.0 0.0

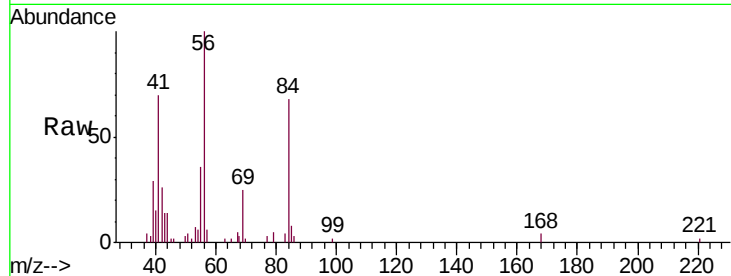




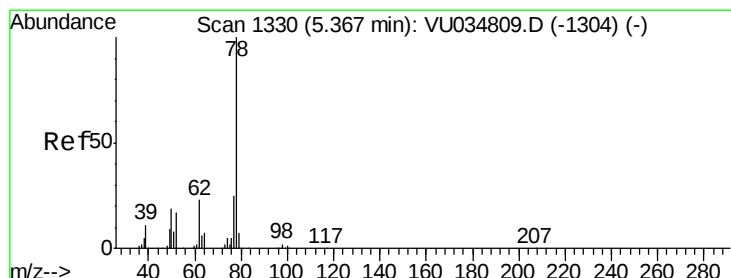
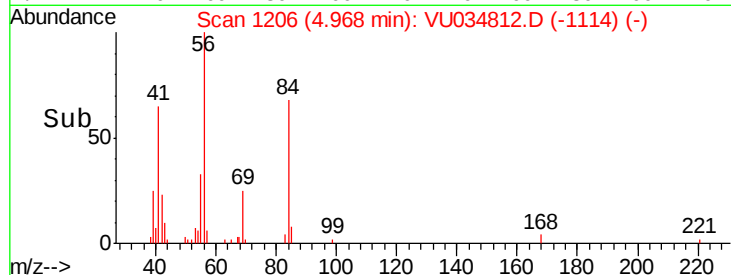
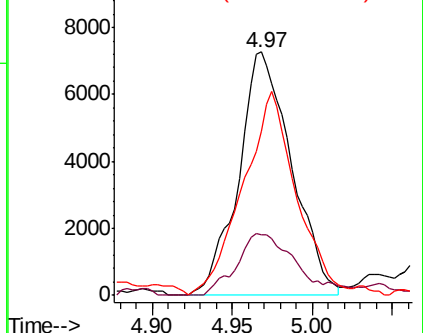
#29  
Cyclohexane  
Concen: 2.347 ug/L  
RT: 4.97 min Scan# 1206  
Delta R.T. -0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDF1

Tgt Ion: 56 Resp: 16543  
Ion Ratio Lower Upper  
56 100  
69 26.6 21.7 32.5  
84 84.5 58.8 88.2

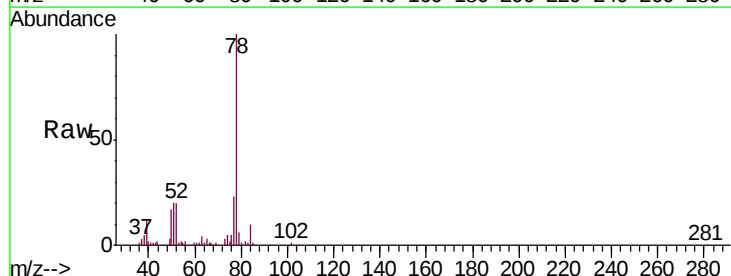


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

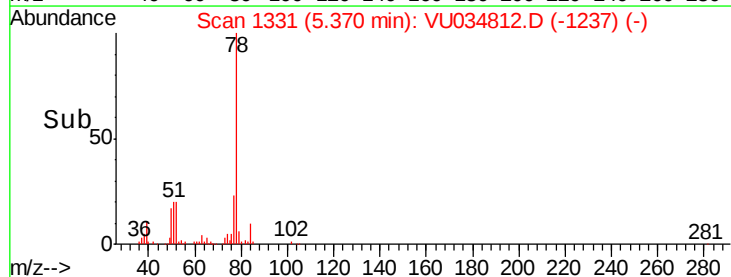
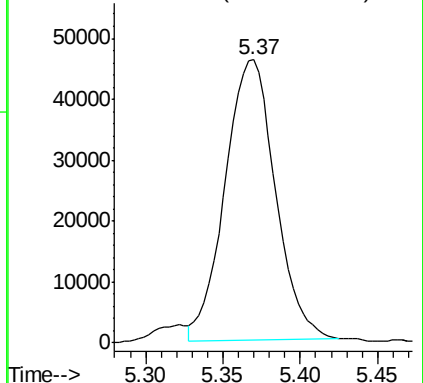


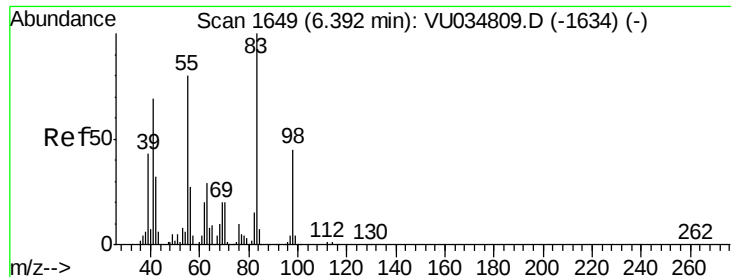
#33  
Benzene  
Concen: 7.028 ug/L  
RT: 5.37 min Scan# 1331  
Delta R.T. 0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

Tgt Ion: 78 Resp: 104077



Abundance Ion 78.00 (77.70 to 78.70): VU0

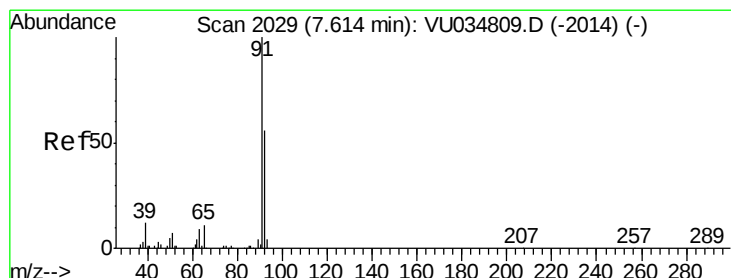
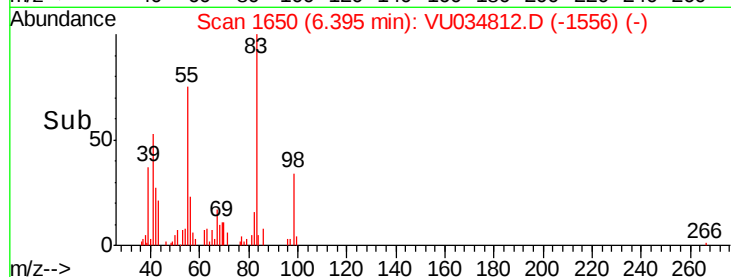
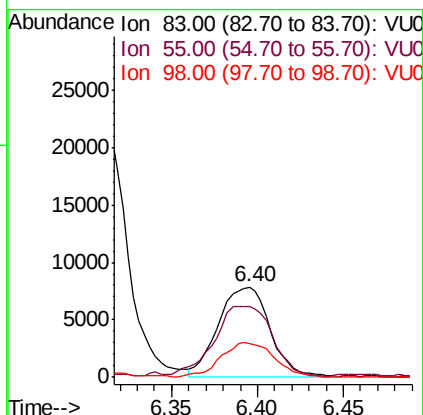
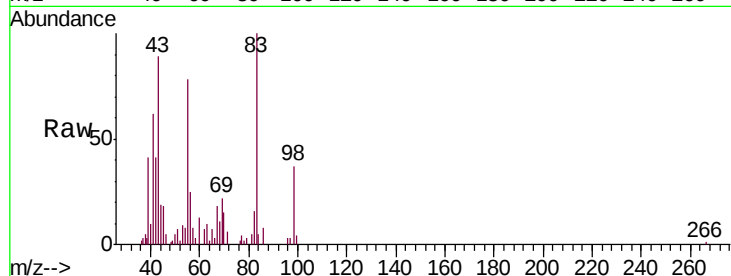




#35  
Methylcyclohexane  
Concen: 2.655 ug/L  
RT: 6.40 min Scan# 1650  
Delta R.T. 0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

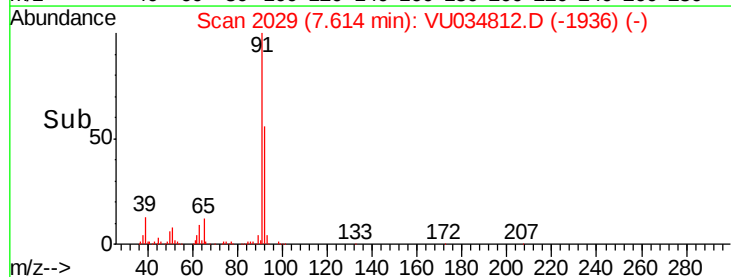
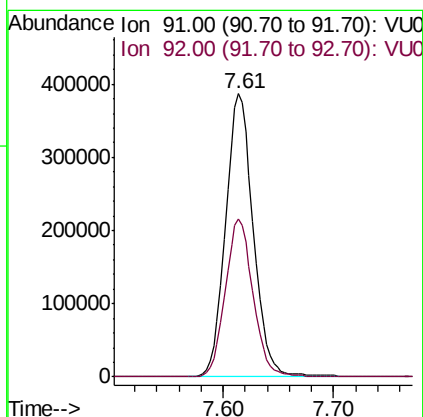
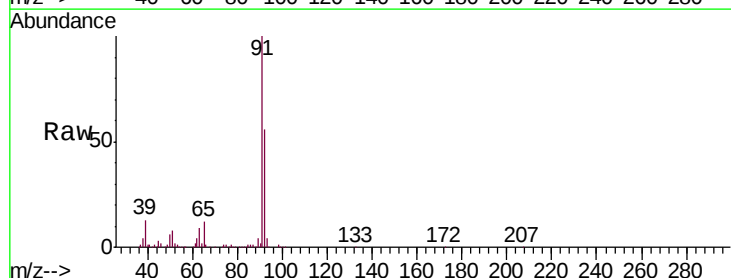
Instrument :  
MSVOA\_U  
ClientSampled :  
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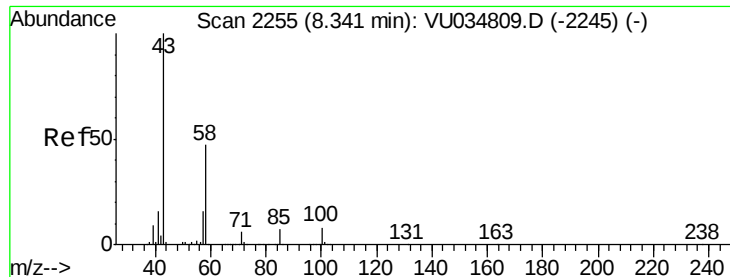
Tgt Ion: 83 Resp: 16481  
Ion Ratio Lower Upper  
83 100  
55 89.4 71.6 107.4  
98 40.0 35.7 53.5



#42  
Toluene  
Concen: 42.027 ug/L  
RT: 7.61 min Scan# 2029  
Delta R.T. -0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

Tgt Ion: 91 Resp: 672617  
Ion Ratio Lower Upper  
91 100  
92 55.8 38.2 71.0

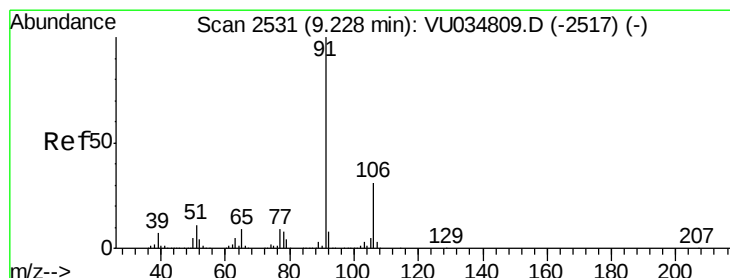
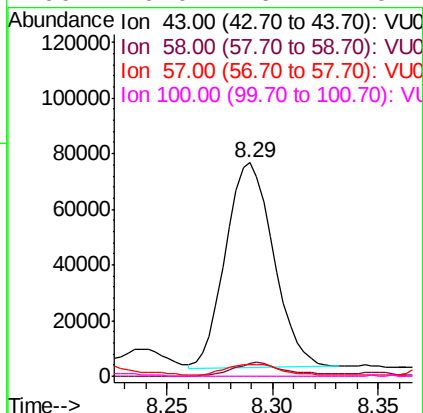
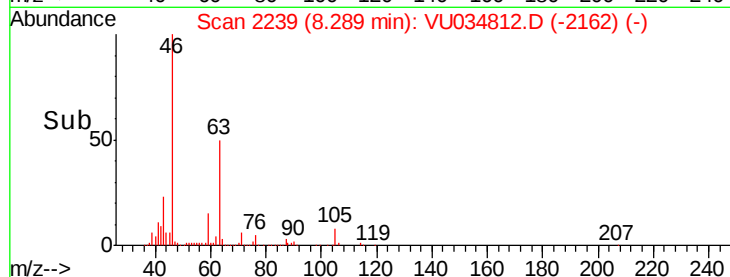
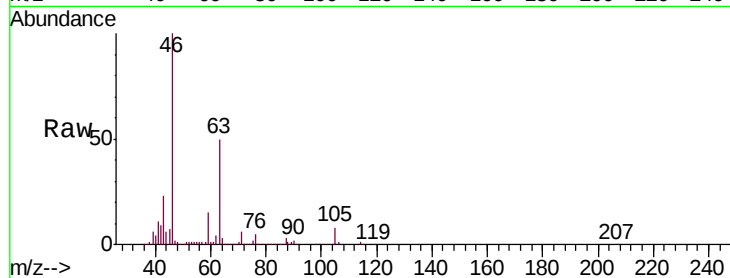




#48  
2-Hexanone  
Concen: 17.716 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. -0.05 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

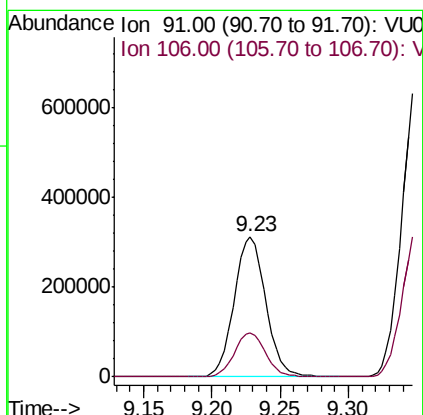
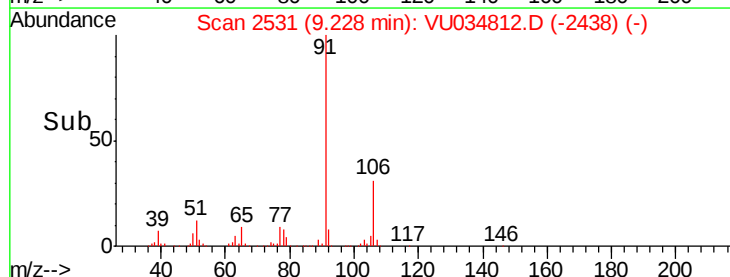
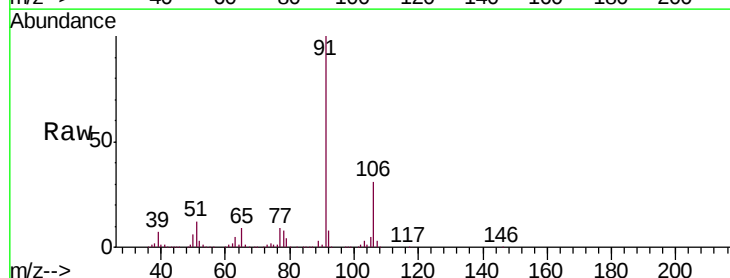
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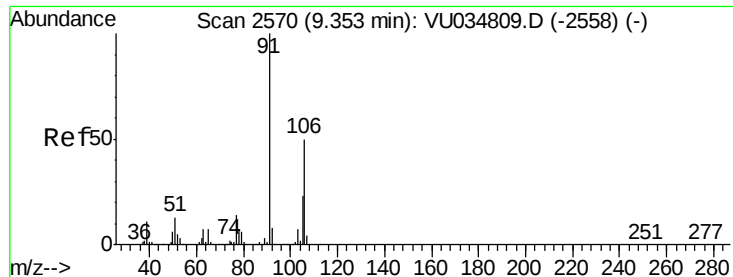
Tgt Ion: 43 Resp: 116485  
Ion Ratio Lower Upper  
43 100  
58 7.8 35.3 52.9#  
57 5.8 12.1 18.1#  
100 0.0 6.2 9.4#



#52  
Ethylbenzene  
Concen: 27.976 ug/L  
RT: 9.23 min Scan# 2531  
Delta R.T. -0.00 min  
Lab File: VU034812.D  
Acq: 25 Sep 2019 19:10

Tgt Ion: 91 Resp: 504200  
Ion Ratio Lower Upper  
91 100  
106 31.3 20.6 38.4





#53

m,p-Xylene

Concen: 86.233 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034812.D

Acq: 25 Sep 2019 19:10

Instrument :

MSVOA\_U

ClientSampleId :

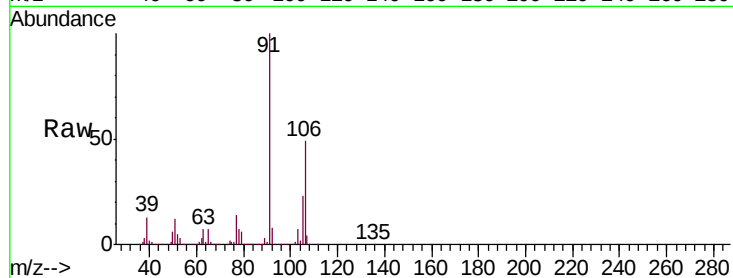
BDF1

Tgt Ion:106 Resp: 550464

Ion Ratio Lower Upper

106 100

91 203.2 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

800000

600000

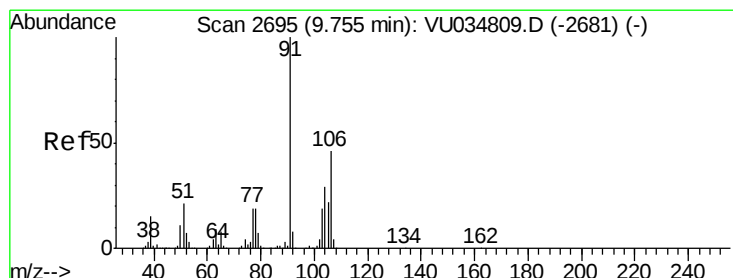
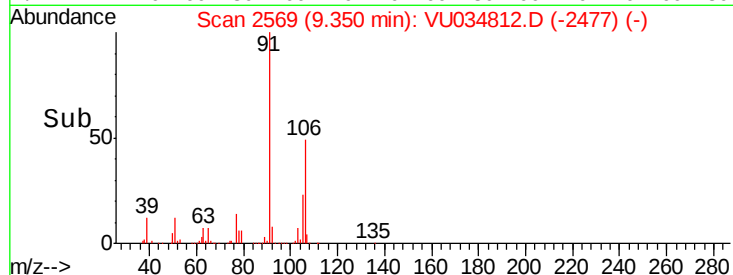
400000

200000

0

9.30 9.35 9.40

Time-->



#54

o-xylene

Concen: 71.795 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034812.D

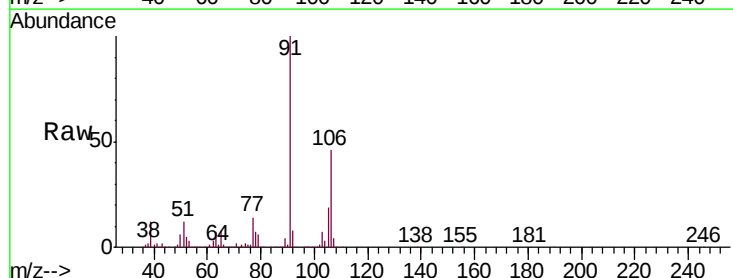
Acq: 25 Sep 2019 19:10

Tgt Ion:106 Resp: 453298

Ion Ratio Lower Upper

106 100

91 216.7 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

600000

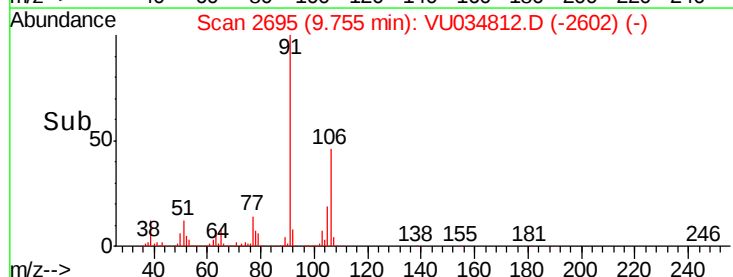
400000

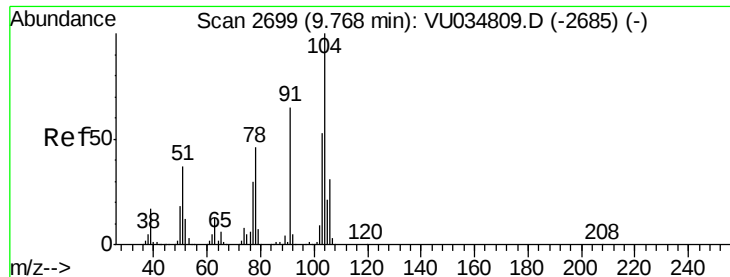
200000

0

9.70 9.75 9.80 9.85

Time-->





#55

Styrene

Concen: 2.562 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.01 min

Lab File: VU034812.D

Acq: 25 Sep 2019 19:10

Instrument :

MSVOA\_U

ClientSampleId :

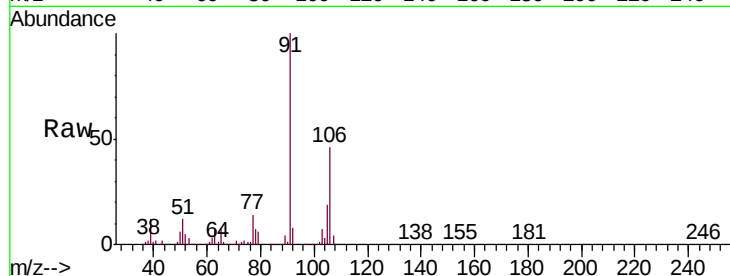
BDF1

Tgt Ion:104 Resp: 27384

Ion Ratio Lower Upper

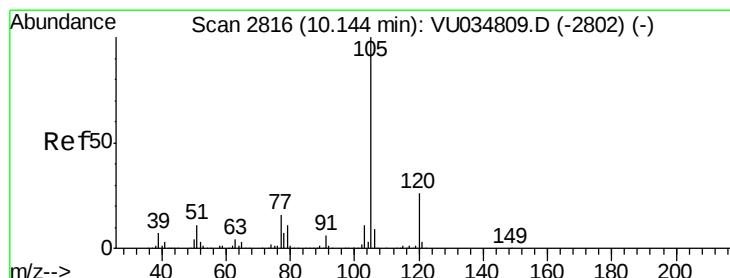
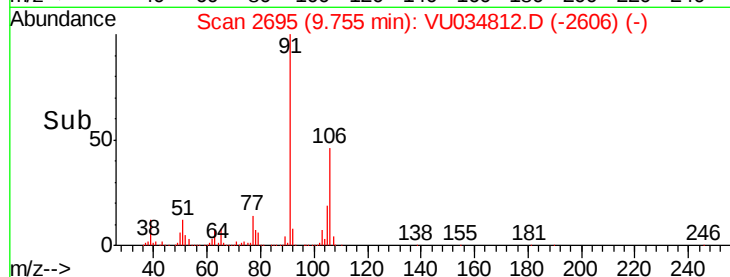
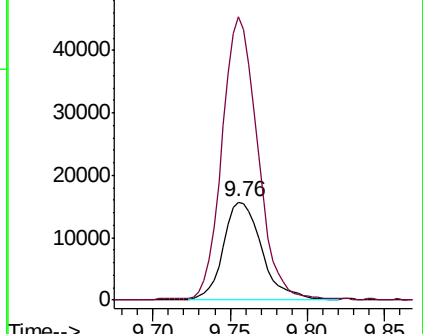
104 100

78 288.1 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 2.793 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034812.D

Acq: 25 Sep 2019 19:10

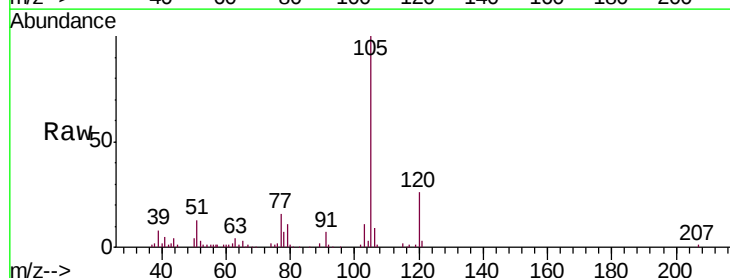
Tgt Ion:105 Resp: 47546

Ion Ratio Lower Upper

105 100

120 23.9 20.4 30.6

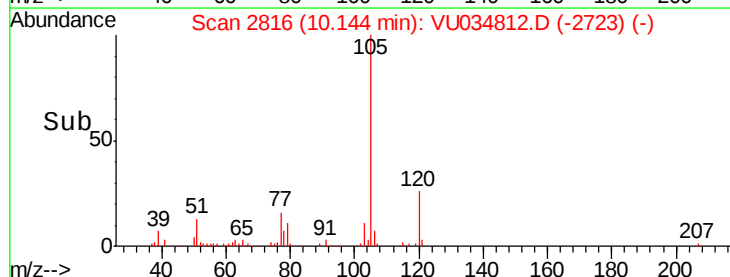
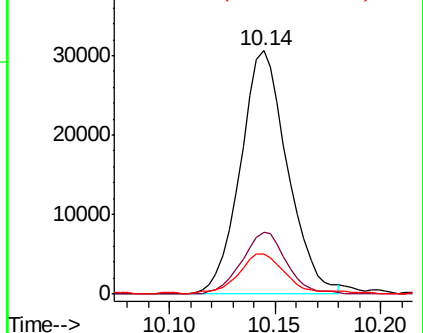
77 17.0 14.2 21.4

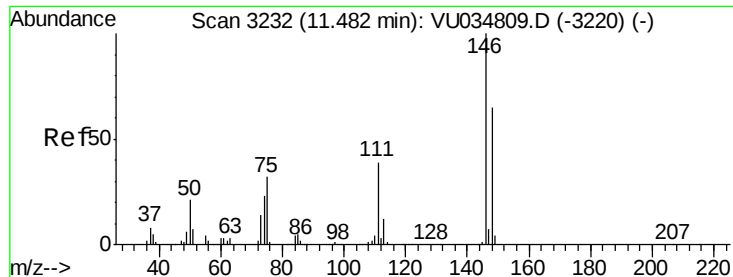


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

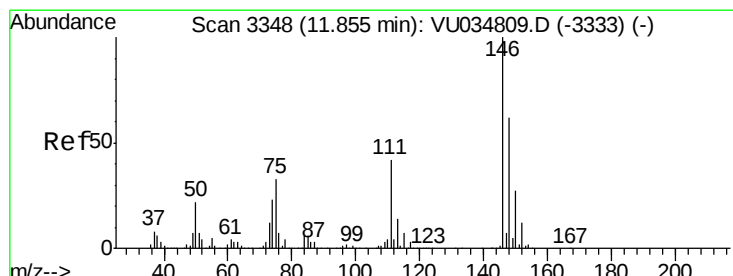
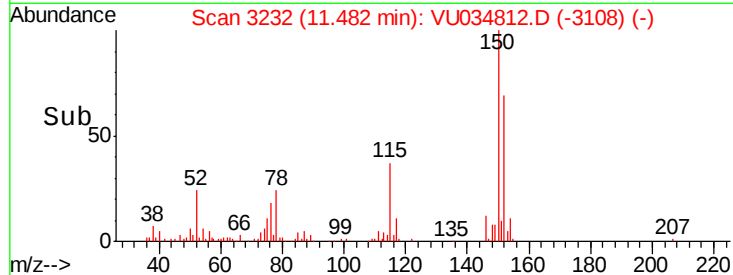
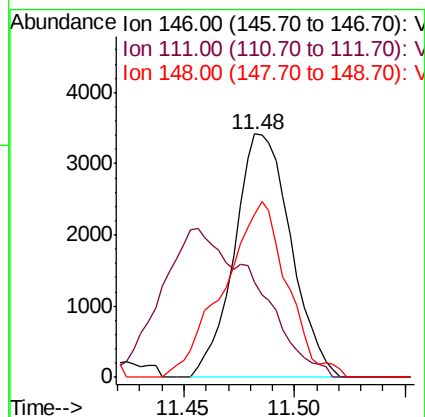
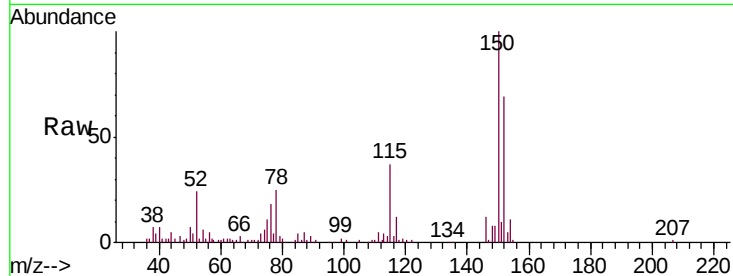




#63  
 1,4-Dichlorobenzene  
 Concen: 0.846 ug/L  
 RT: 11.48 min Scan# 3232  
 Delta R.T. -0.00 min  
 Lab File: VU034812.D  
 Acq: 25 Sep 2019 19:10

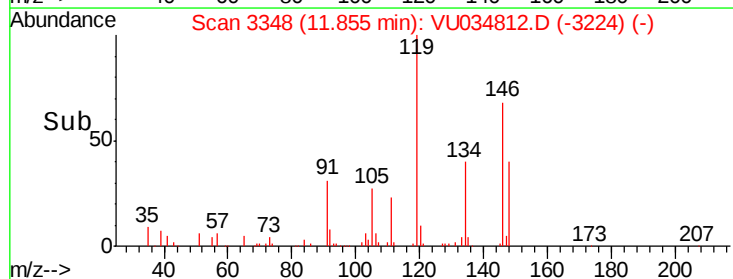
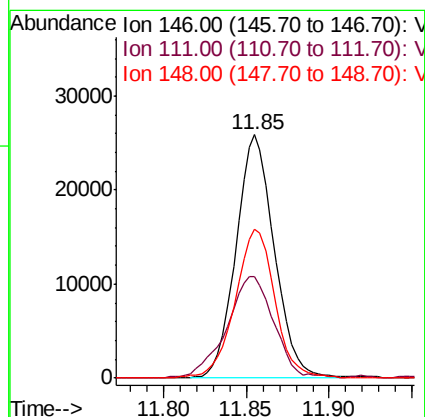
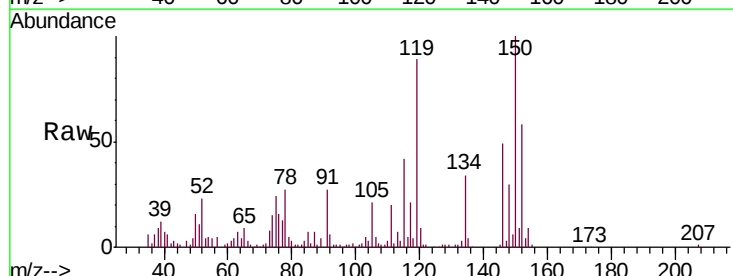
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDF1

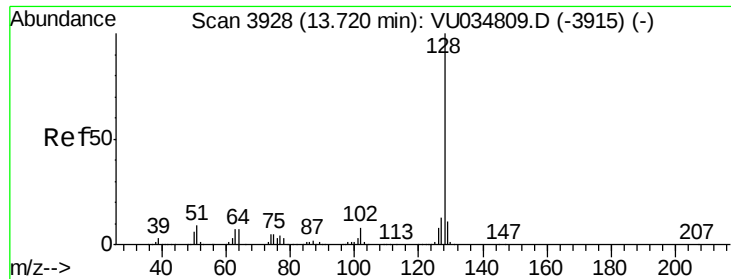
Tgt Ion:146 Resp: 6088  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 29.5 54.9  
 148 67.1 44.4 82.4



#65  
 1,2-Dichlorobenzene  
 Concen: 5.819 ug/L  
 RT: 11.85 min Scan# 3348  
 Delta R.T. -0.00 min  
 Lab File: VU034812.D  
 Acq: 25 Sep 2019 19:10

Tgt Ion:146 Resp: 41542  
 Ion Ratio Lower Upper  
 146 100  
 111 41.5 35.2 52.8  
 148 61.0 53.0 79.6





#69

Naphthalene

Concen: 61.694 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034812.D

Acq: 25 Sep 2019 19:10

Instrument :

MSVOA\_U

ClientSampleId :

BPDF1

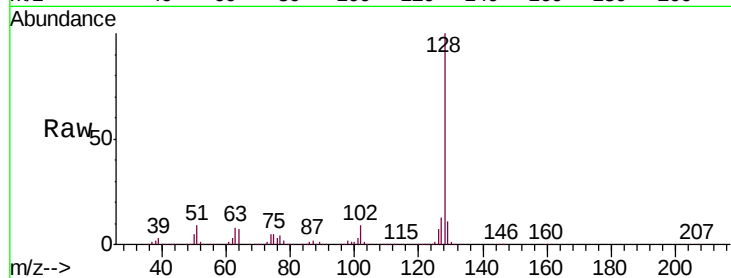
Tgt Ion:128 Resp: 795040

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 10.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

