

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061120\  
 Data File : VU038794.D  
 Acq On : 10 Jun 2020 22:36  
 Operator : SY/MD  
 Sample : L2915-03 100X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9E06

Quant Time: Jun 11 03:46:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 11 03:42:48 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 565714   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 550042   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.82 | 152  | 258065   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 182293   | 57.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 115.36% |
| 7) Chloroethane-d5             | 1.93    | 69    | 147953   | 60.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 120.68% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 285533   | 41.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.90%  |
| 21) 2-Butanone-d5              | 4.66    | 46    | 351737   | 114.39   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 114.39% |
| 24) Chloroform-d               | 5.10    | 84    | 366801   | 53.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.66% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 253369   | 56.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 112.20% |
| 32) Benzene-d6                 | 5.76    | 84    | 746663   | 56.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 112.70% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 226411   | 55.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 110.90% |
| 41) Toluene-d8                 | 7.92    | 98    | 640066   | 53.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.92% |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 106856   | 51.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.96% |
| 47) 2-Hexanone-d5              | 8.65    | 63    | 252482   | 116.16   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 116.16% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 325069   | 53.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.74% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20   | 152   | 259465   | 57.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 115.82% |

## Target Compounds

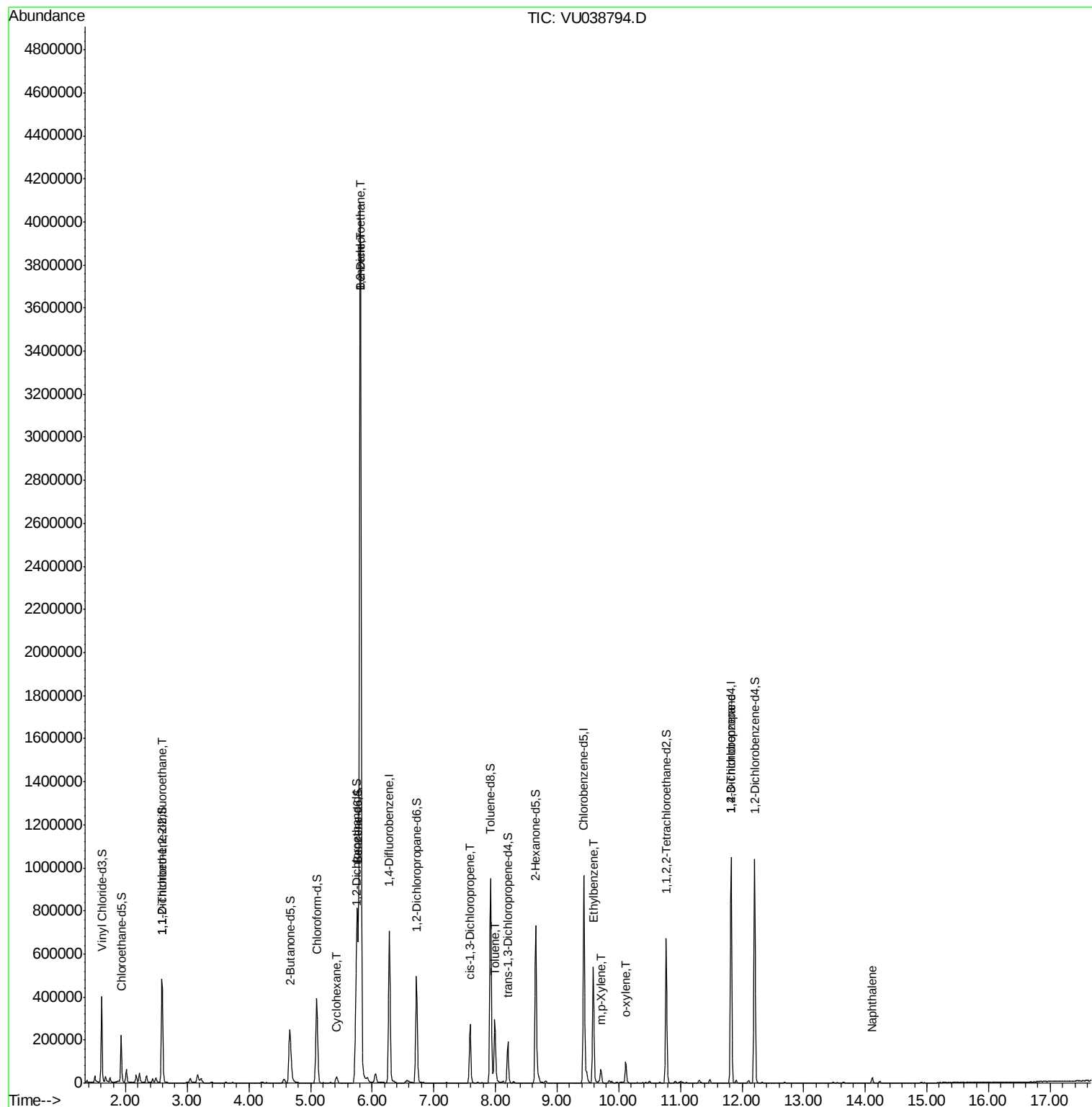
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59  | 101  | 2624     | 0.722   | ug/L # | 21     |
| 27) 1,2-Dichloroethane         | 5.81  | 62   | 34200    | 5.564   | ug/L # | 74     |
| 29) Cyclohexane                | 5.42  | 56   | 13072    | 2.077   | ug/L   | 97     |
| 33) Benzene                    | 5.81  | 78   | 3882821  | 237.717 | ug/L   | 100    |
| 39) cis-1,3-Dichloropropene    | 7.59  | 75   | 6606     | 1.006   | ug/L # | 72     |
| 42) Toluene                    | 7.99  | 91   | 217323   | 12.725  | ug/L   | 100    |
| 52) Ethylbenzene               | 9.59  | 91   | 386995   | 20.532  | ug/L   | 99     |
| 53) m,p-Xylene                 | 9.71  | 106  | 17349    | 2.398   | ug/L   | 89     |
| 54) o-xylene                   | 10.11 | 106  | 27405    | 3.902   | ug/L   | 94     |
| 59) 1,2,3-Trichloropropane     | 11.82 | 75   | 32907    | 5.514   | ug/L   | 90     |
| 69) Naphthalene                | 14.11 | 128  | 20631    | 1.082   | ug/L   | 97     |

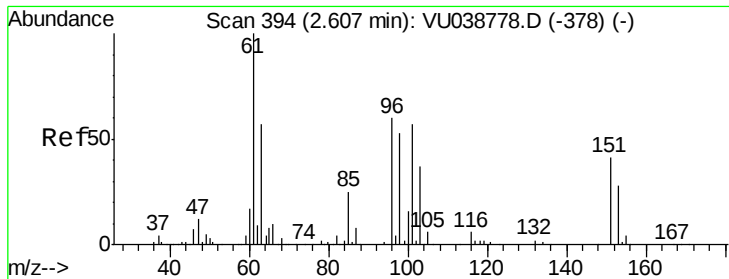
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9E06

Quant Time: Jun 11 03:46:05 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Jun 11 03:42:48 2020  
Response via : Initial Calibration





#10

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

Concen: 0.722 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.02 min

Lab File: VU038794.D

Acq: 10 Jun 2020 22:36

Instrument :

MSVOA\_U

ClientSampleId :

F9E06

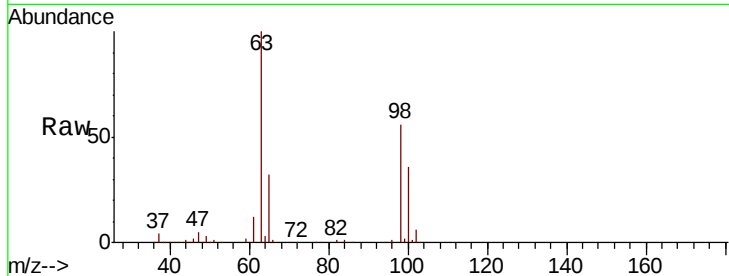
Tot Ion:101 Resp: 2624

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

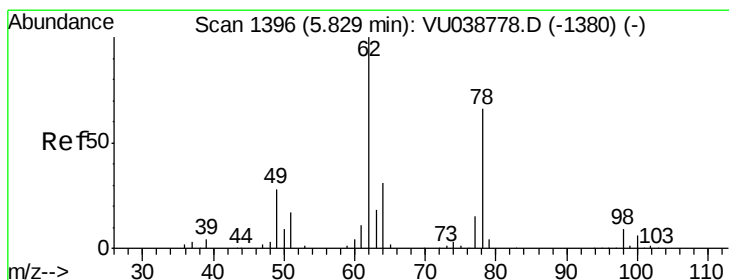
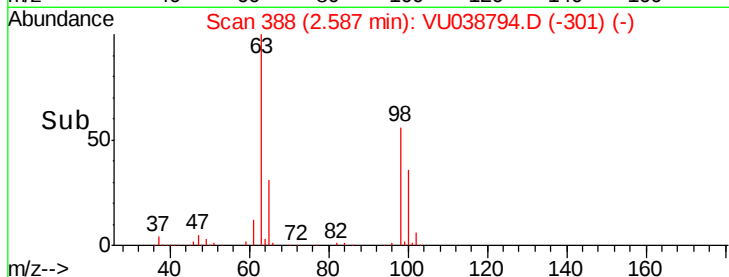
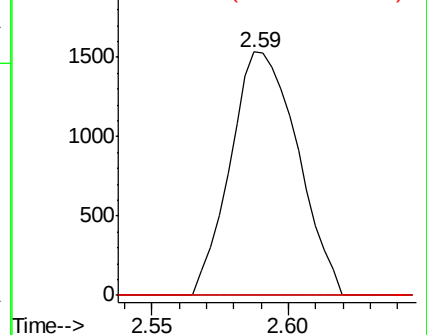
151 0.0 57.4 86.0#



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



#27

1,2-Dichloroethane

Concen: 5.564 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.02 min

Lab File: VU038794.D

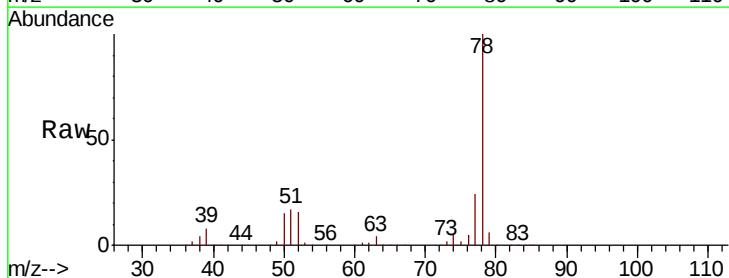
Acq: 10 Jun 2020 22:36

Tgt Ion: 62 Resp: 34200

Ion Ratio Lower Upper

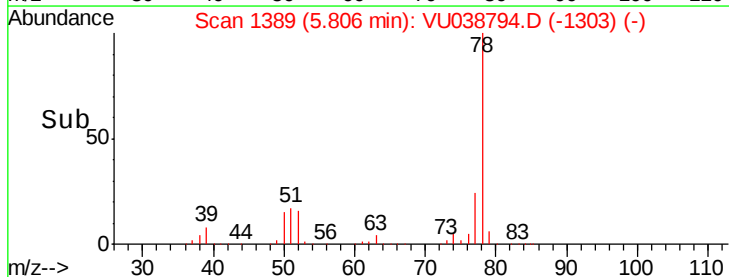
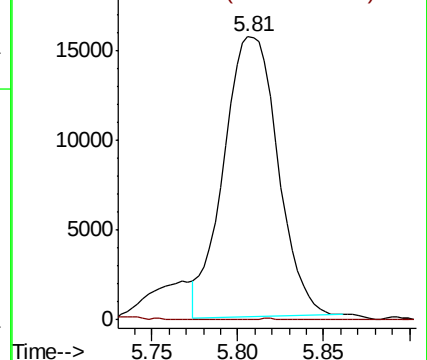
62 100

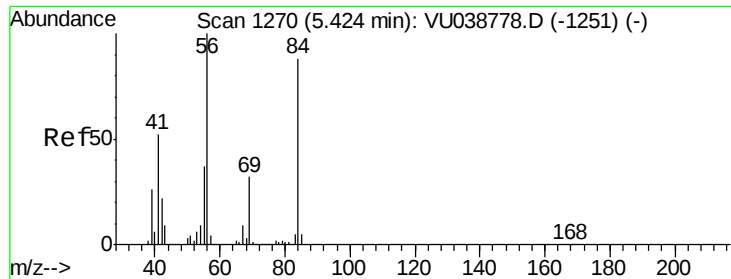
98 0.0 7.8 11.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

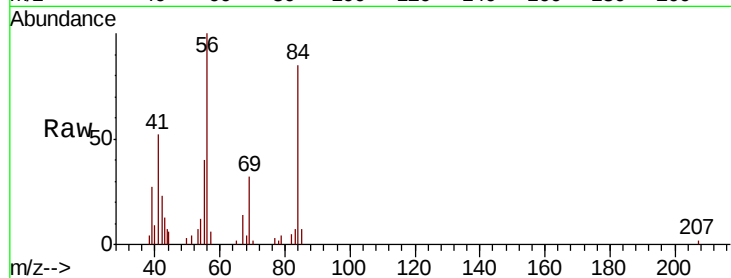




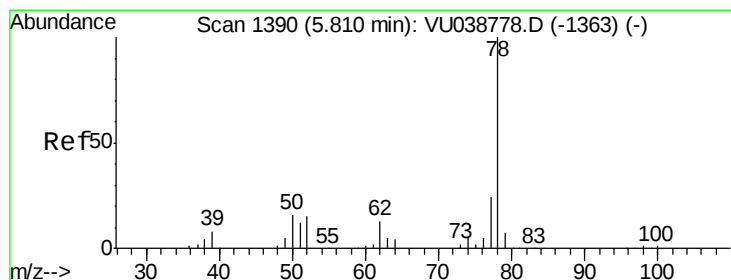
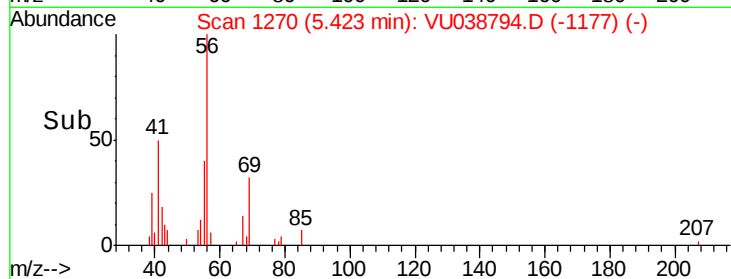
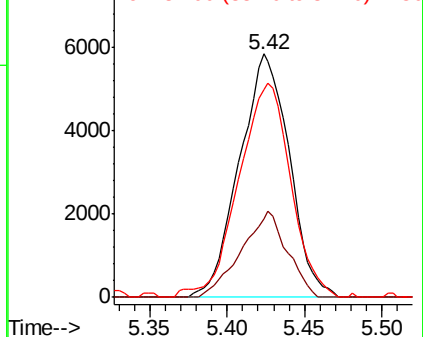
#29  
Cyclohexane  
Concen: 2.077 ug/L  
RT: 5.42 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VU038794.D  
Acq: 10 Jun 2020 22:36

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9E06

Tot Ion: 56 Resp: 13072  
Ion Ratio Lower Upper  
56 100  
69 32.6 25.1 37.7  
84 90.6 70.5 105.7

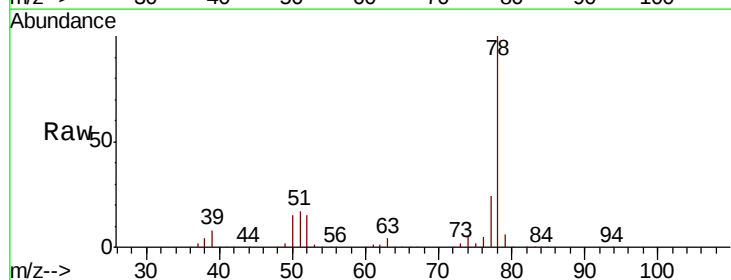


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

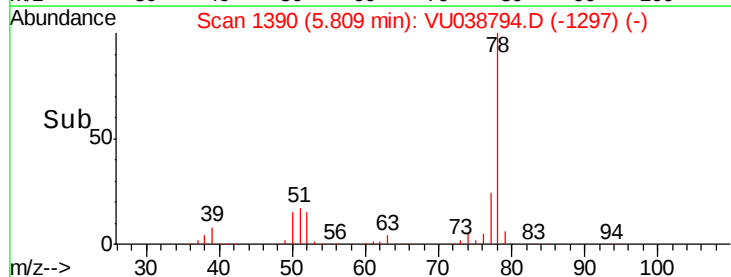
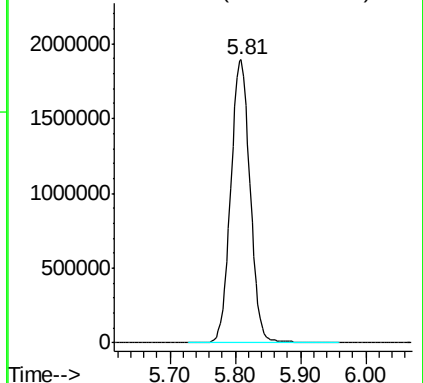


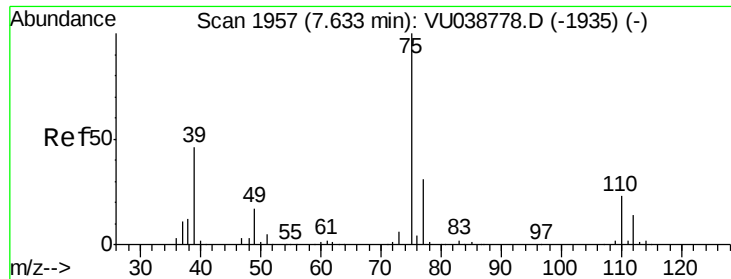
#33  
Benzene  
Concen: 237.717 ug/L  
RT: 5.81 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VU038794.D  
Acq: 10 Jun 2020 22:36

Tgt Ion: 78 Resp: 3882821



Abundance Ion 78.00 (77.70 to 78.70): VU0

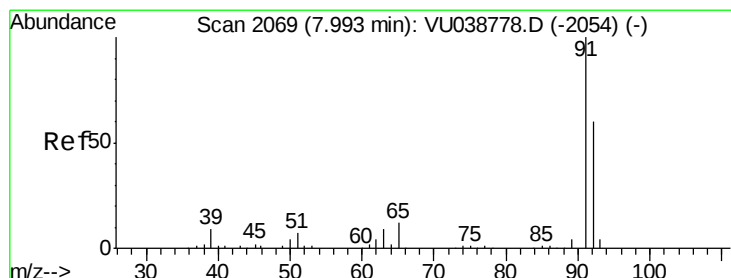
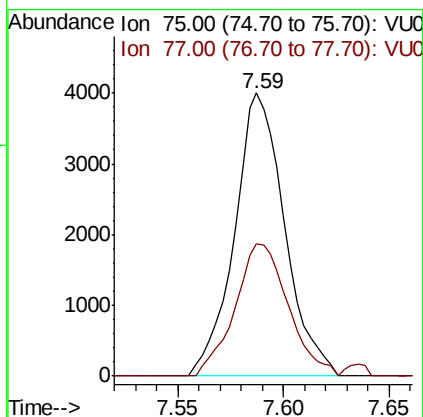
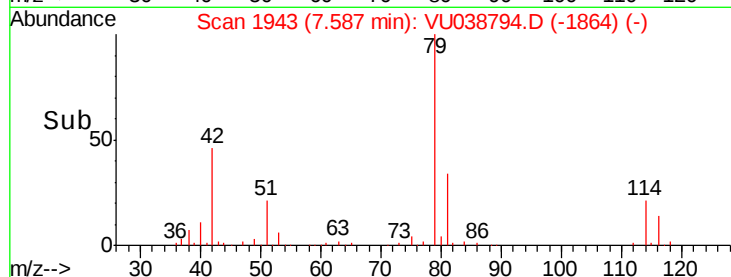
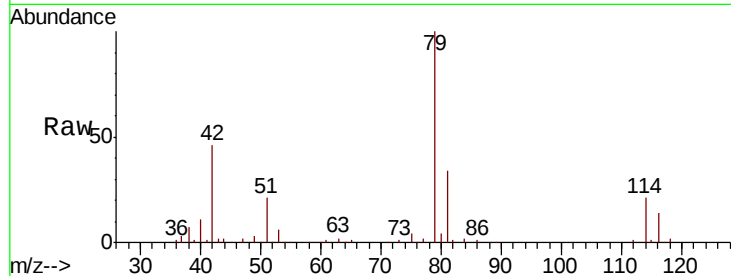




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.006 ug/L  
 RT: 7.59 min Scan# 1943  
 Delta R.T. -0.05 min  
 Lab File: VU038794.D  
 Acq: 10 Jun 2020 22:36

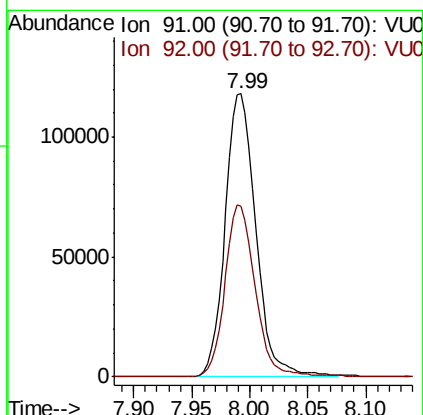
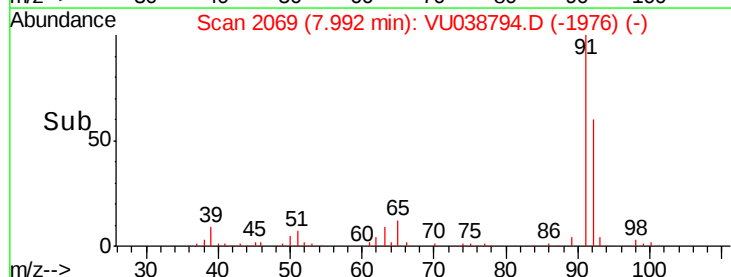
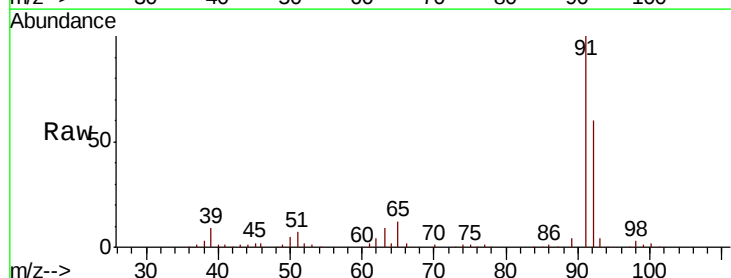
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9E06

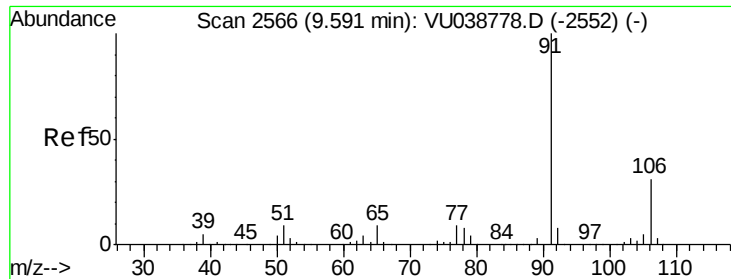
Tot Ion: 75 Resp: 6606  
 Ion Ratio Lower Upper  
 75 100  
 77 47.0 22.2 41.2#



#42  
 Toluene  
 Concen: 12.725 ug/L  
 RT: 7.99 min Scan# 2069  
 Delta R.T. -0.00 min  
 Lab File: VU038794.D  
 Acq: 10 Jun 2020 22:36

Tgt Ion: 91 Resp: 217323  
 Ion Ratio Lower Upper  
 91 100  
 92 60.1 42.2 78.4

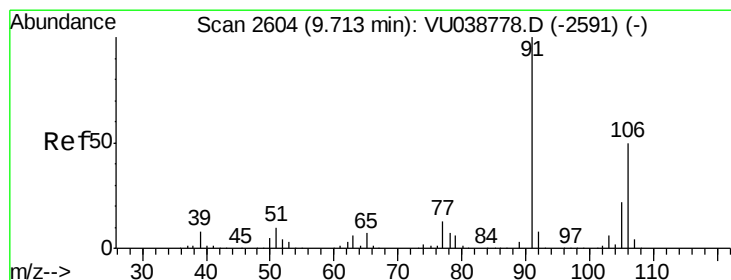
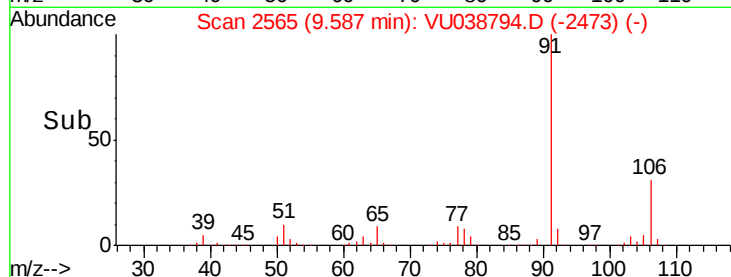
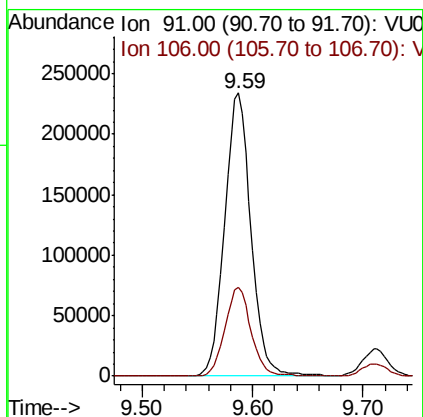
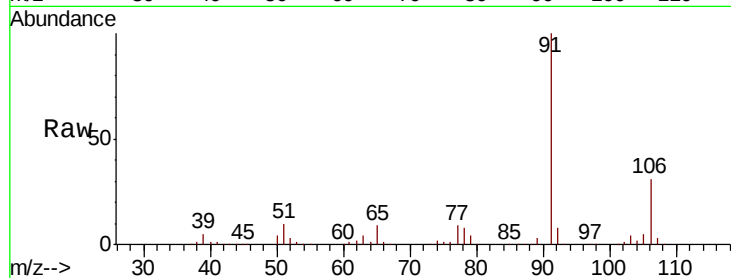




#52  
Ethylbenzene  
Concen: 20.532 ug/L  
RT: 9.59 min Scan# 2565  
Delta R.T. -0.00 min  
Lab File: VU038794.D  
Acq: 10 Jun 2020 22:36

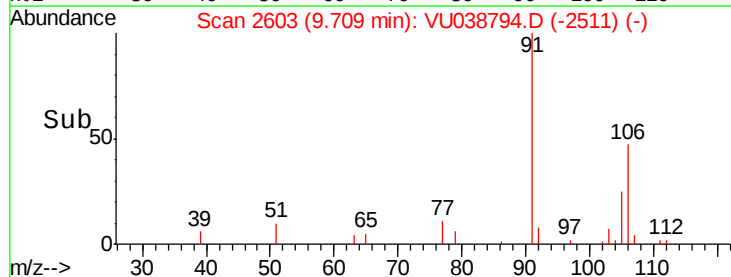
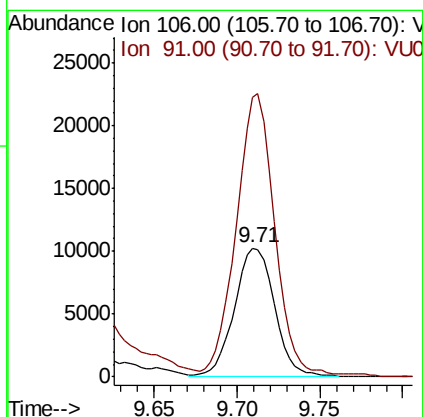
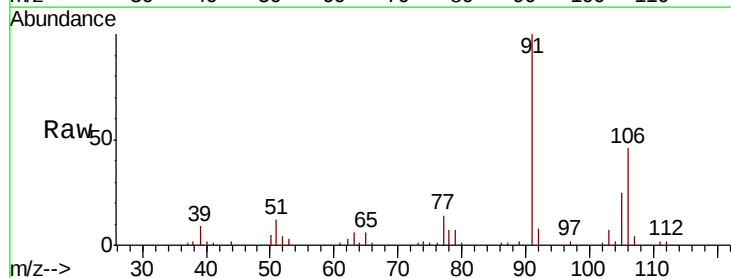
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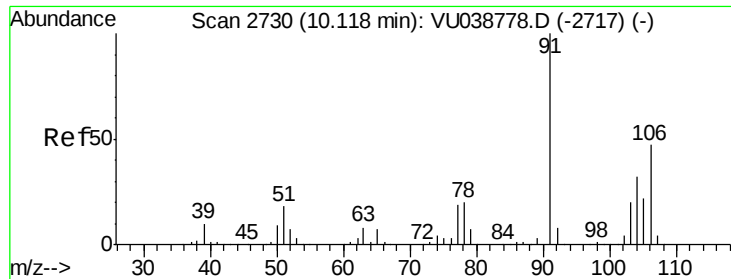
Tot Ion: 91 Resp: 386995  
Ion Ratio Lower Upper  
91 100  
106 31.4 21.5 39.9



#53  
m,p-Xylene  
Concen: 2.398 ug/L  
RT: 9.71 min Scan# 2603  
Delta R.T. -0.00 min  
Lab File: VU038794.D  
Acq: 10 Jun 2020 22:36

Tgt Ion: 106 Resp: 17349  
Ion Ratio Lower Upper  
106 100  
91 216.5 140.1 260.3





#54

o-xylene

Concen: 3.902 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU038794.D

Acq: 10 Jun 2020 22:36

Instrument :

MSVOA\_U

ClientSampleId :

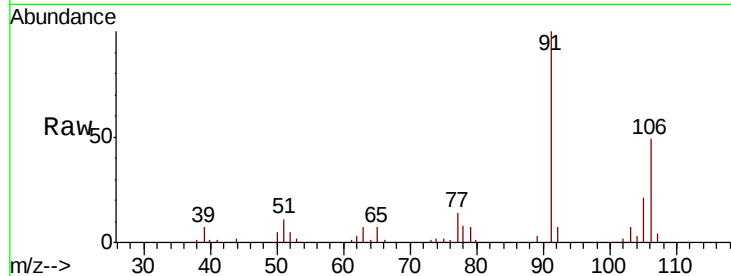
F9E06

Tot Ion:106 Resp: 27405

Ion Ratio Lower Upper

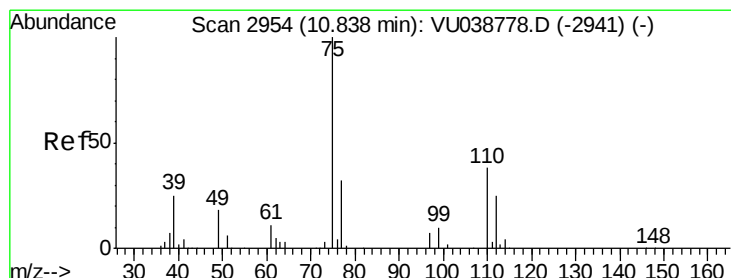
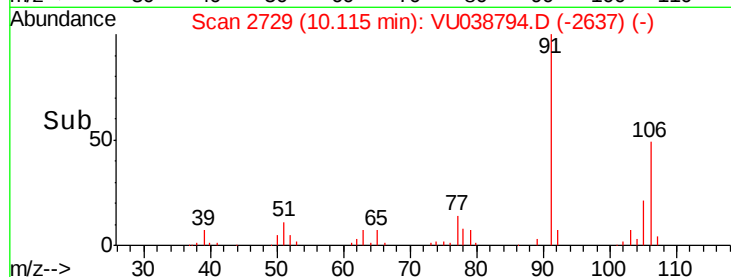
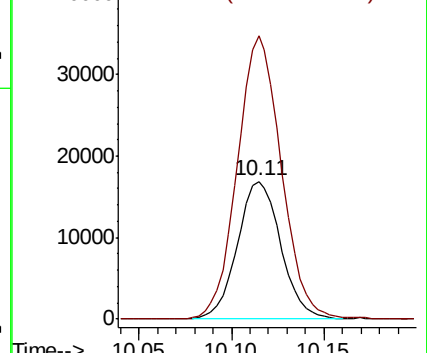
106 100

91 205.9 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): VU038778.D (-2717) (-)

Ion 91.00 (90.70 to 91.70): VU038778.D (-2717) (-)



#59

1,2,3-Trichloropropane

Concen: 5.514 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038794.D

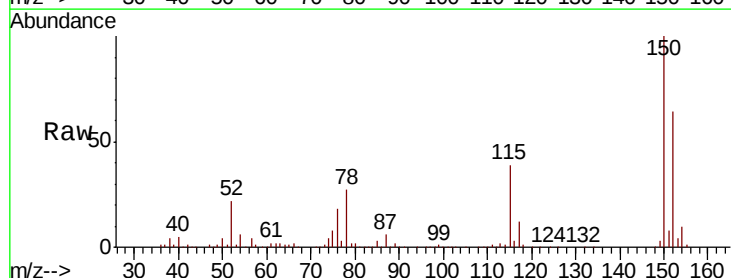
Acq: 10 Jun 2020 22:36

Tgt Ion: 75 Resp: 32907

Ion Ratio Lower Upper

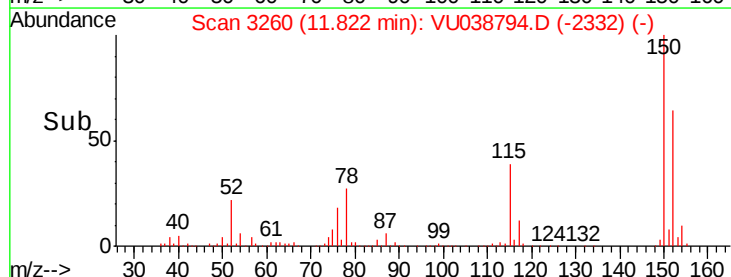
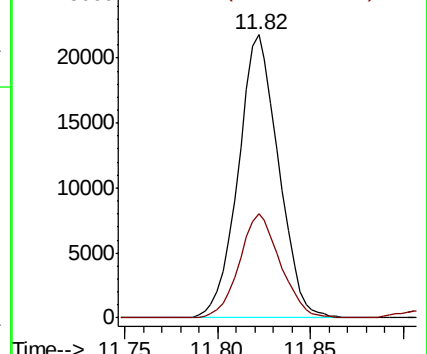
75 100

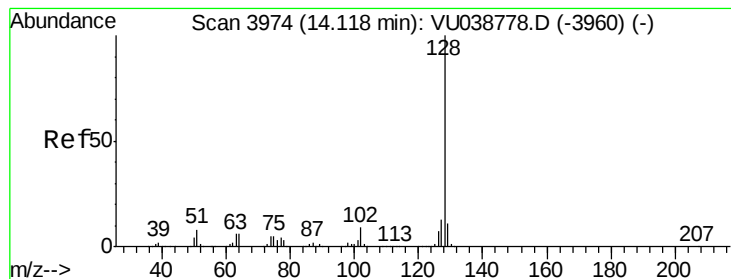
77 37.2 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VU038778.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU038778.D (-2941) (-)





#69

Naphthalene

Concen: 1.082 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038794.D

Acq: 10 Jun 2020 22:36

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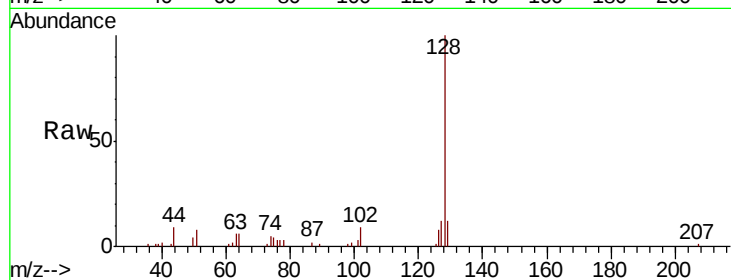
Tot Ion:128 Resp: 20631

Ion Ratio Lower Upper

128 100

127 12.1 10.6 16.0

129 11.7 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

