

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052424\  
 Data File : VU058960.D  
 Acq On : 23 May 2024 19:58  
 Operator : MD/SY  
 Sample : P2566-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

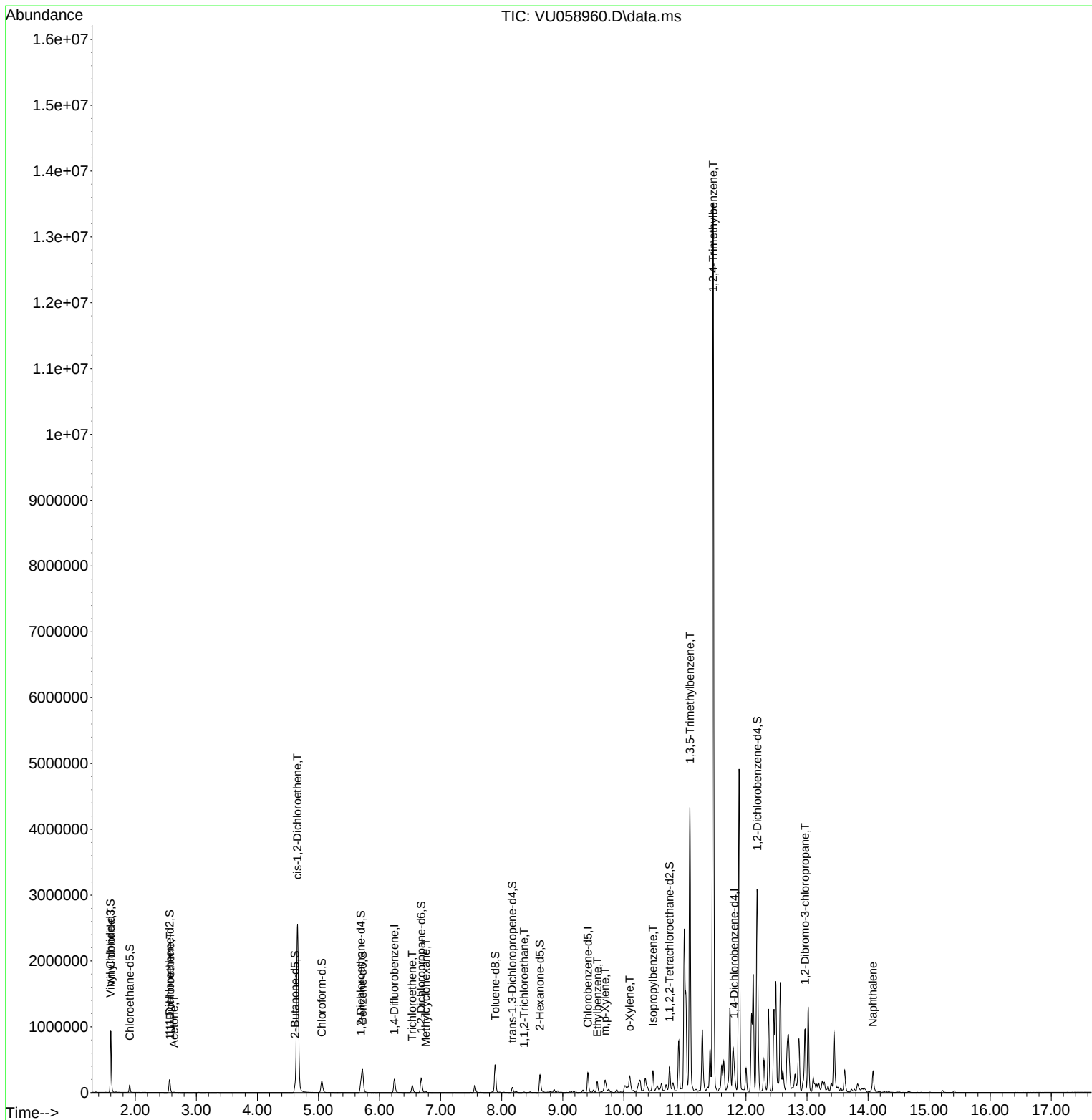
Instrument :  
 MSVOA\_U  
 ClientSampleId :

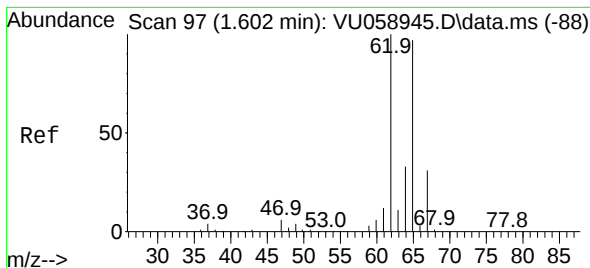
Quant Time: May 24 07:07:24 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM052324WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 24 06:52:32 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|---------|-------|----------|----------|--------|-----------|
| -----                         |         |       |          |          |        |           |
| Internal Standards            |         |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.242   | 114   | 165302   | 50.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.412   | 117   | 166911   | 50.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.807  | 152   | 86506    | 50.000   | ug/L   | 0.00      |
|                               |         |       |          |          |        |           |
| System Monitoring Compounds   |         |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.595   | 65    | 102215   | 58.465   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 116.940%  |
| 7) Chloroethane-d5            | 1.911   | 69    | 78906    | 54.306   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 108.620%  |
| 11) 1,1-Dichloroethene-d2     | 2.563   | 63    | 118569   | 44.390   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.780%   |
| 21) 2-Butanone-d5             | 4.618   | 46    | 143857   | 119.790  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 119.790%  |
| 24) Chloroform-d              | 5.055   | 84    | 165078   | 55.048   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 110.100%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 106021   | 57.809   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 115.620%  |
| 32) Benzene-d6                | 5.721   | 84    | 337297   | 59.275   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 118.560%  |
| 36) 1,2-Dichloropropane-d6    | 6.682   | 67    | 110617   | 58.855   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 117.700%  |
| 41) Toluene-d8                | 7.894   | 98    | 280909   | 55.074   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 110.140%  |
| 43) trans-1,3-Dichloroprop... | 8.174   | 79    | 46612    | 55.231   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 110.460%  |
| 47) 2-Hexanone-d5             | 8.627   | 63    | 92815    | 119.402  | ug/L   | 0.00      |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 119.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749  | 84    | 166083   | 58.738   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 117.480%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187  | 152   | 117852   | 66.026   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 132.060%# |
|                               |         |       |          |          |        |           |
| Target Compounds              |         |       |          |          |        | Qvalue    |
| 5) Vinyl chloride             | 1.602   | 62    | 588483   | 425.239  | ug/L   | 96        |
| 12) 1,1-Dichloroethene        | 2.573   | 96    | 3162     | 3.088    | ug/L # | 1         |
| 13) Acetone                   | 2.634   | 43    | 6571     | 6.206    | ug/L   | 66        |
| 20) cis-1,2-Dichloroethene    | 4.656   | 96    | 1306533  | 959.447  | ug/L   | 97        |
| 34) Trichloroethene           | 6.537   | 95    | 38183    | 28.670   | ug/L   | 98        |
| 35) Methylcyclohexane         | 6.759   | 83    | 6160     | 3.946    | ug/L   | 97        |
| 45) 1,1,2-Trichloroethane     | 8.367   | 97    | 3215     | 1.997    | ug/L # | 17        |
| 52) Ethylbenzene              | 9.566   | 91    | 102132   | 17.546   | ug/L   | 97        |
| 53) m,p-Xylene                | 9.692   | 106   | 38594    | 18.458   | ug/L   | 95        |
| 54) o-Xylene                  | 10.097  | 106   | 58480    | 27.944   | ug/L   | 96        |
| 61) Isopropylbenzene          | 10.479  | 105   | 201730   | 36.518   | ug/L   | 99        |
| 62) 1,3,5-Trimethylbenzene    | 11.084  | 105   | 2287257  | 525.570  | ug/L   | 99        |
| 63) 1,2,4-Trimethylbenzene    | 11.463  | 105   | 7073160  | 1611.592 | ug/L   | 99        |
| 68) 1,2-Dibromo-3-chloropr... | 12.968  | 75    | 4619     | 7.756    | ug/L # | 6         |
| 71) Naphthalene               | 14.080  | 128   | 251311   | 49.522   | ug/L   | 99        |
| -----                         |         |       |          |          |        |           |

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

Quant Time: May 24 07:07:24 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM052324WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 24 06:52:32 2024  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 425.239 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

Instrument :

MSVOA\_U

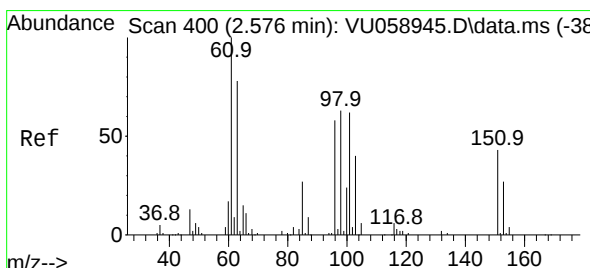
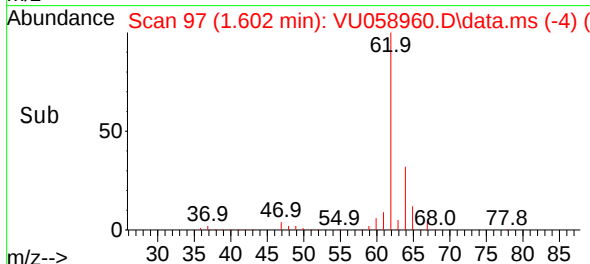
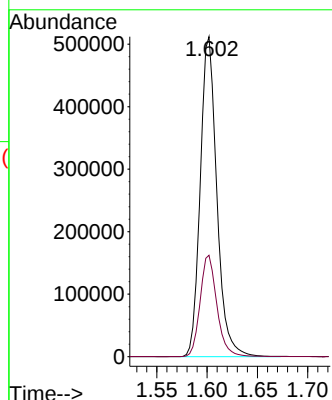
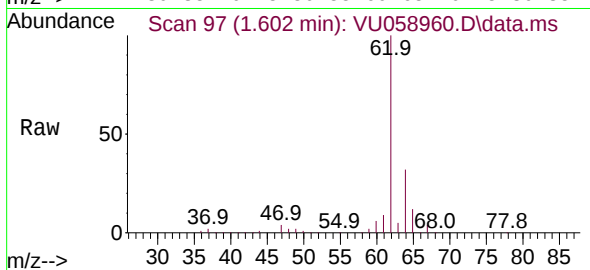
ClientSampleId :

Tgt Ion: 62 Resp: 588483

Ion Ratio Lower Upper

62 100

64 31.7 23.7 43.9



#12

1,1-Dichloroethene

Concen: 3.088 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

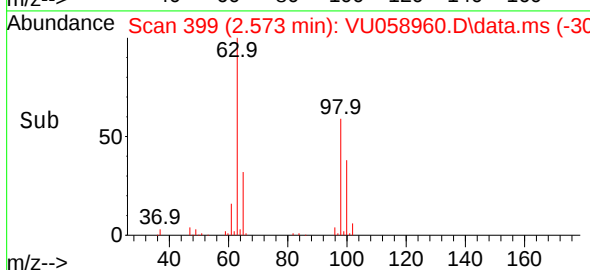
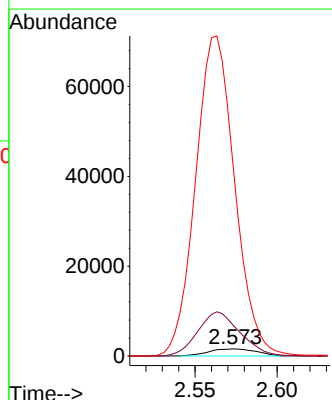
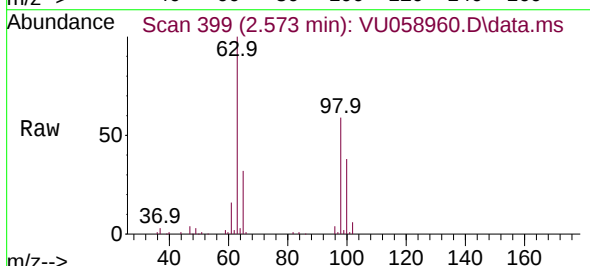
Tgt Ion: 96 Resp: 3162

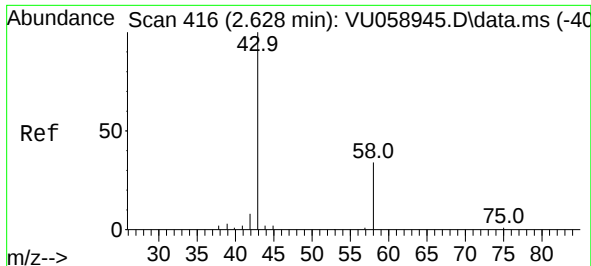
Ion Ratio Lower Upper

96 100

61 448.5 122.2 227.0#

63 2786.9 102.8 190.8#





#13

Acetone

Concen: 6.206 ug/L

RT: 2.634 min Scan# 41

Delta R.T. 0.006 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

Instrument :

MSVOA\_U

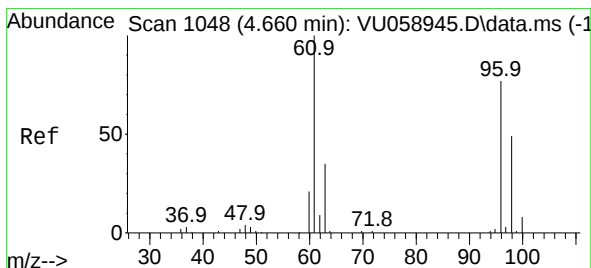
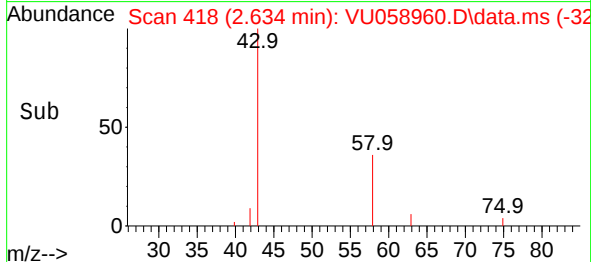
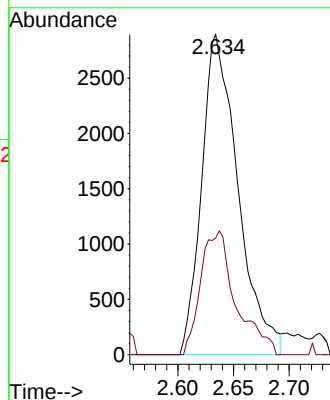
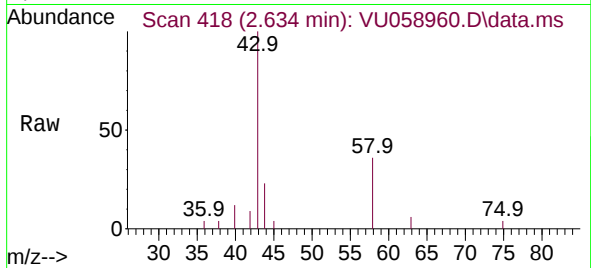
ClientSampleId :

Tgt Ion: 43 Resp: 6571

Ion Ratio Lower Upper

43 100

58 14.3 0.0 67.2



#20

cis-1,2-Dichloroethene

Concen: 959.447 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. -0.003 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

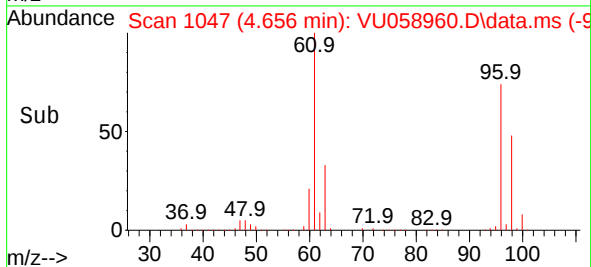
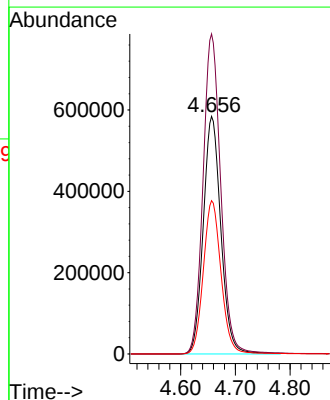
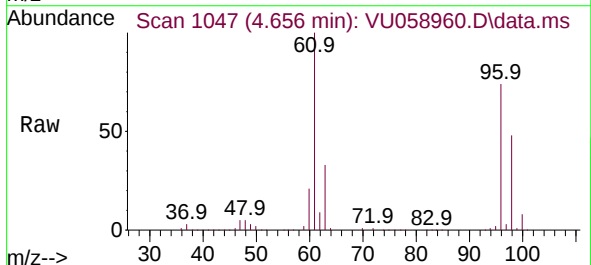
Tgt Ion: 96 Resp: 1306533

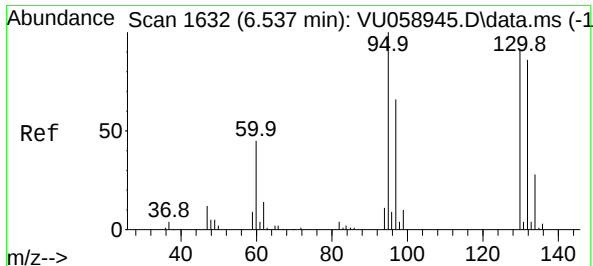
Ion Ratio Lower Upper

96 100

61 134.7 91.1 169.3

98 64.5 44.4 82.4





#34

Trichloroethene

Concen: 28.670 ug/L

RT: 6.537 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

Instrument :

MSVOA\_U

ClientSampleId :

Tgt Ion: 95 Resp: 38183

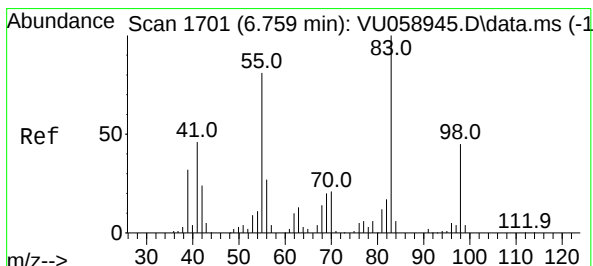
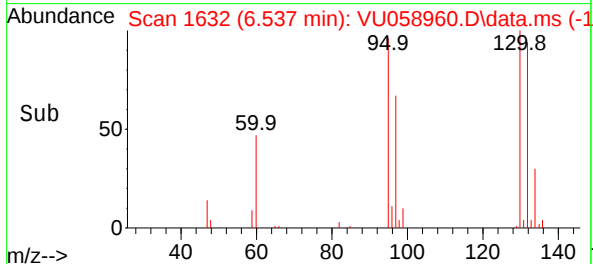
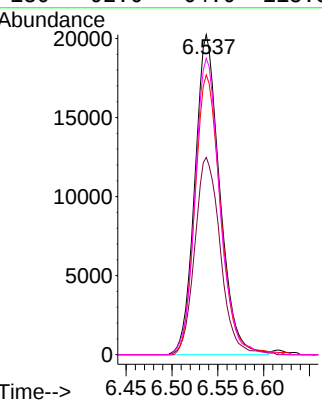
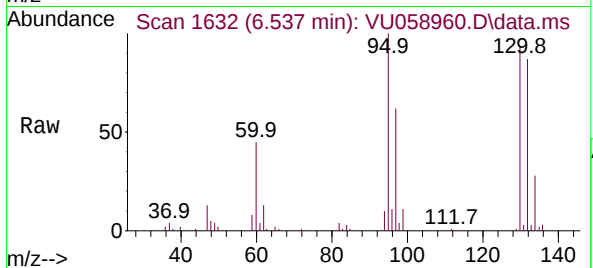
Ion Ratio Lower Upper

95 100

97 61.7 45.9 85.3

132 87.4 60.5 112.5

130 92.6 64.0 118.8



#35

Methylcyclohexane

Concen: 3.946 ug/L

RT: 6.759 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

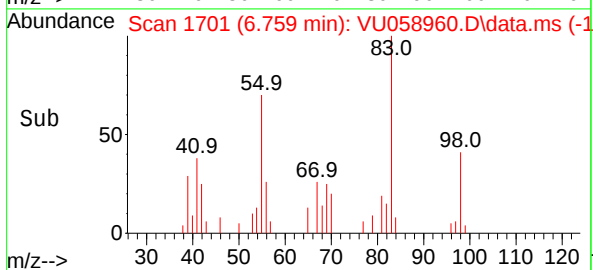
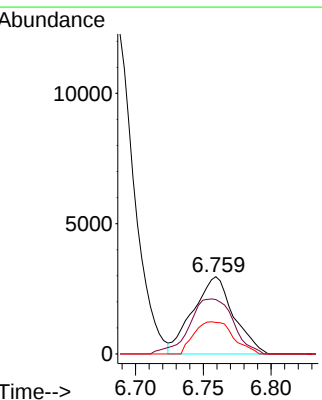
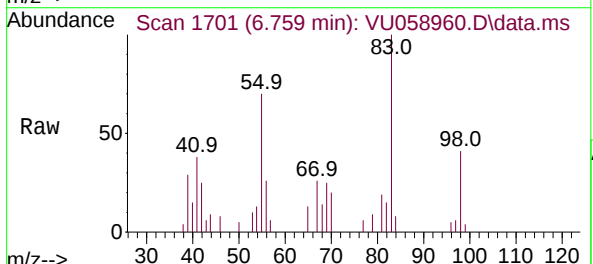
Tgt Ion: 83 Resp: 6160

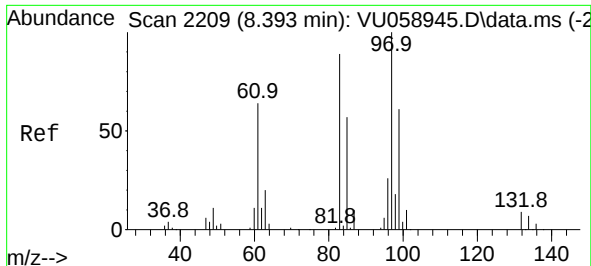
Ion Ratio Lower Upper

83 100

55 76.9 61.5 92.3

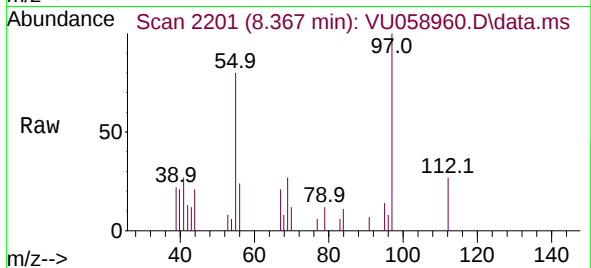
98 40.1 36.2 54.2



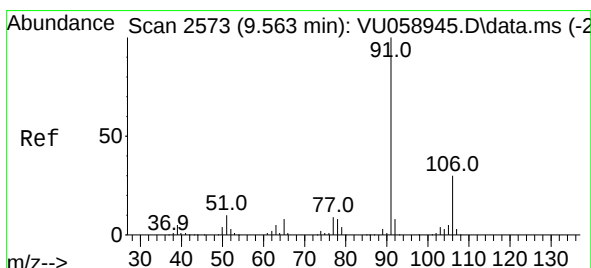
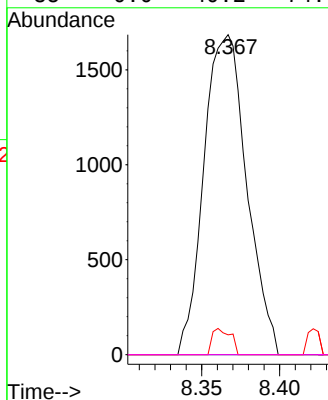
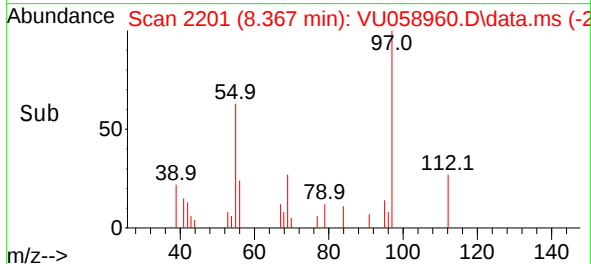


#45  
1,1,2-Trichloroethane  
Concen: 1.997 ug/L  
RT: 8.367 min Scan# 21  
Delta R.T. -0.026 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

Instrument :  
MSVOA\_U  
ClientSampleId :

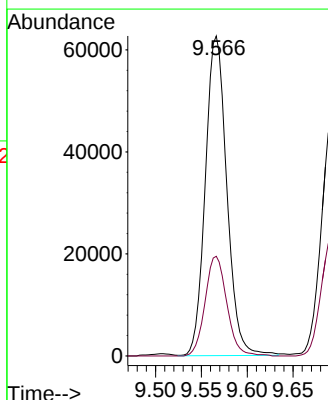
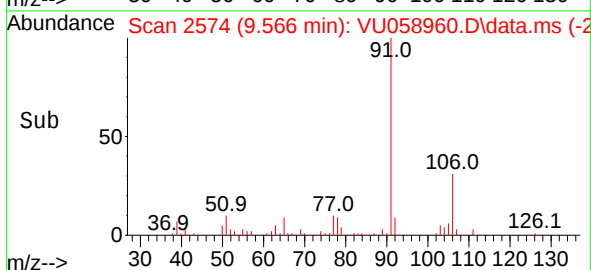
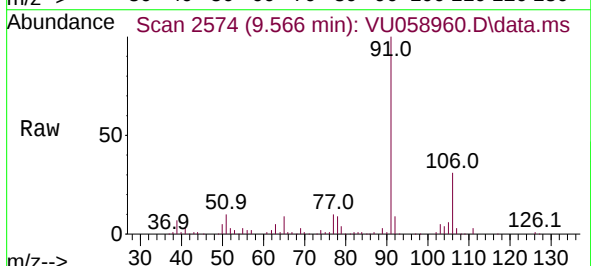


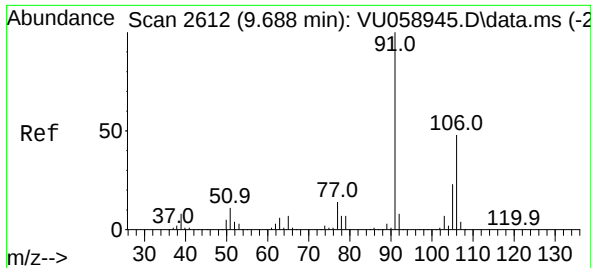
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 100   |       |        |
| 99      | 0.0   | 42.6  | 79.2#  |
| 83      | 6.2   | 62.2  | 115.6# |
| 85      | 0.0   | 40.2  | 74.6#  |



#52  
Ethylbenzene  
Concen: 17.546 ug/L  
RT: 9.566 min Scan# 2574  
Delta R.T. 0.003 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.1  | 20.8  | 38.6  |

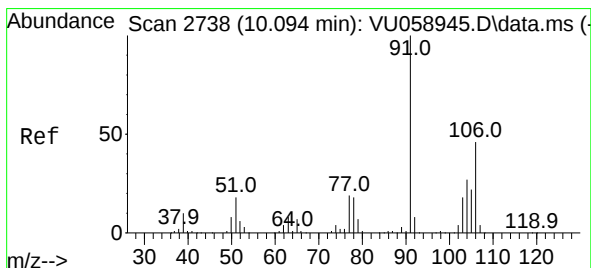
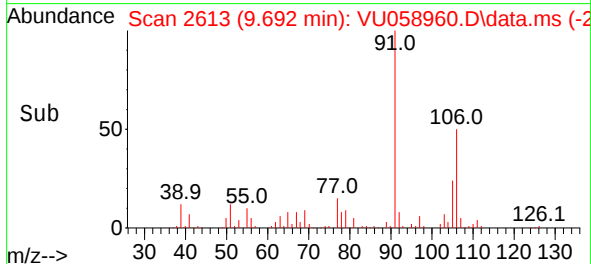
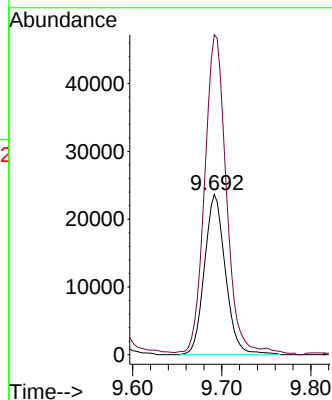
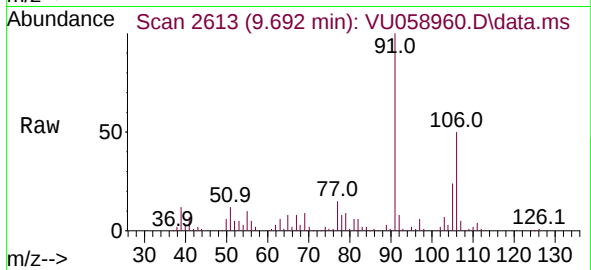




#53  
m,p-Xylene  
Concen: 18.458 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. 0.003 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

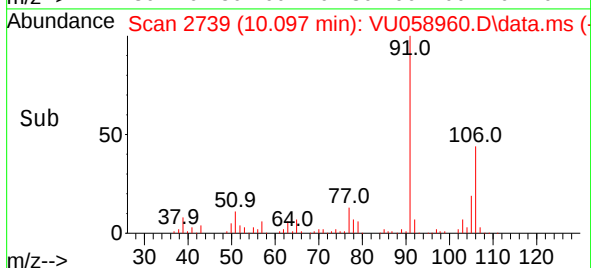
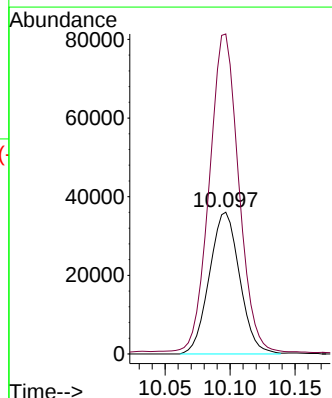
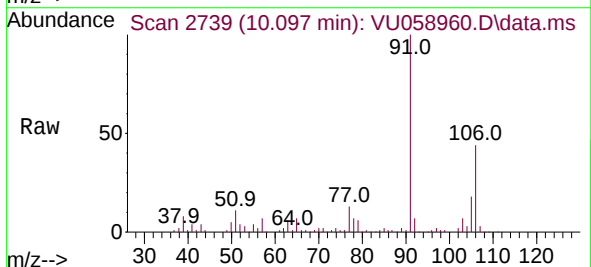
Instrument :  
MSVOA\_U  
ClientSampleId :

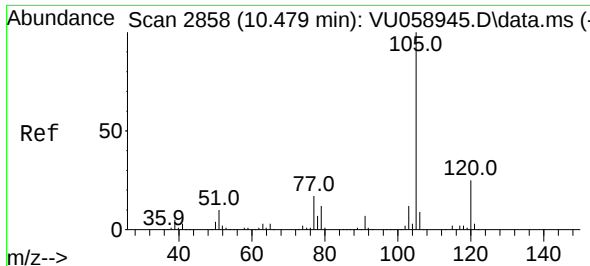
Tgt Ion:106 Resp: 38594  
Ion Ratio Lower Upper  
106 100  
91 199.8 145.7 270.7



#54  
o-Xylene  
Concen: 27.944 ug/L  
RT: 10.097 min Scan# 2739  
Delta R.T. 0.003 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

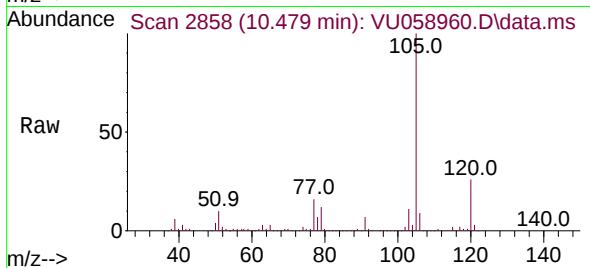
Tgt Ion:106 Resp: 58480  
Ion Ratio Lower Upper  
106 100  
91 225.8 154.0 286.0



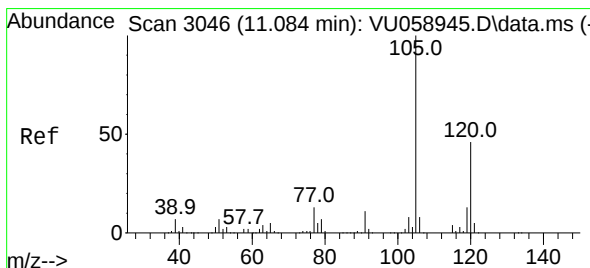
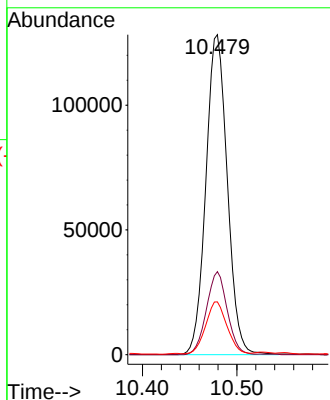
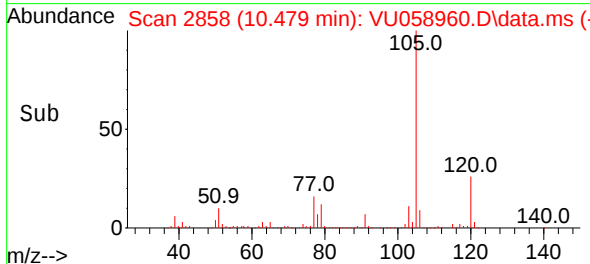


#61  
Isopropylbenzene  
Concen: 36.518 ug/L  
RT: 10.479 min Scan# 2858  
Delta R.T. -0.000 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

Instrument :  
MSVOA\_U  
ClientSampleId :

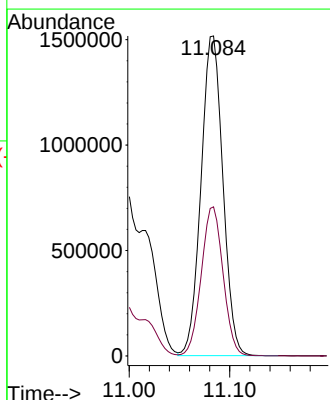
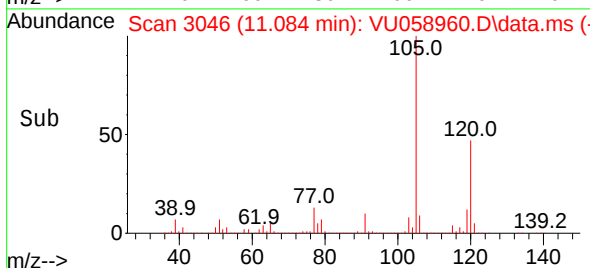
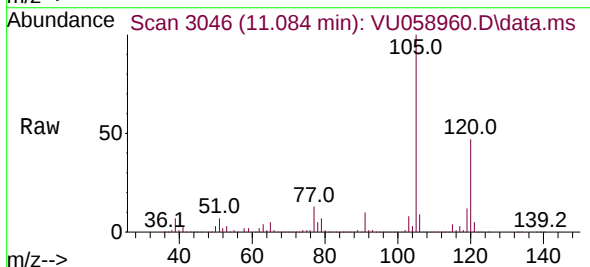


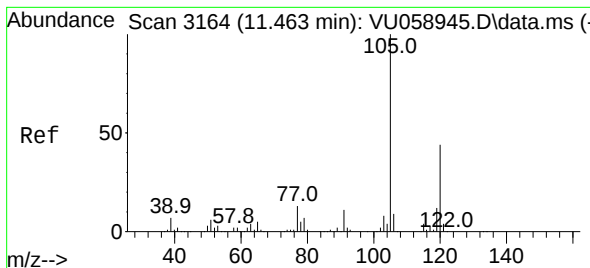
Tgt Ion:105 Resp: 201730  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.0 30.0  
77 16.3 13.4 20.0



#62  
1,3,5-Trimethylbenzene  
Concen: 525.570 ug/L  
RT: 11.084 min Scan# 3046  
Delta R.T. -0.000 min  
Lab File: VU058960.D  
Acq: 23 May 2024 19:58

Tgt Ion:105 Resp: 2287257  
Ion Ratio Lower Upper  
105 100  
120 46.5 36.9 55.3





#63

1,2,4-Trimethylbenzene

Concen: 1611.592 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

Instrument :

MSVOA\_U

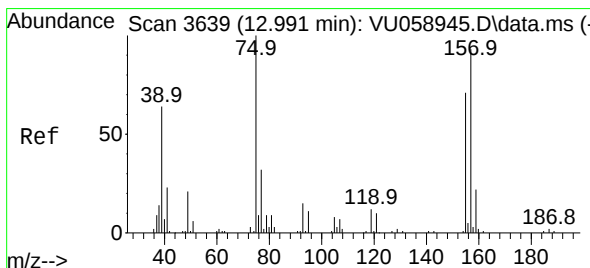
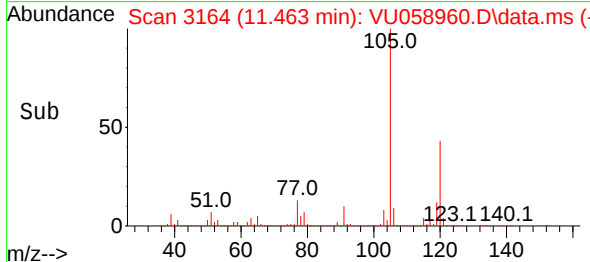
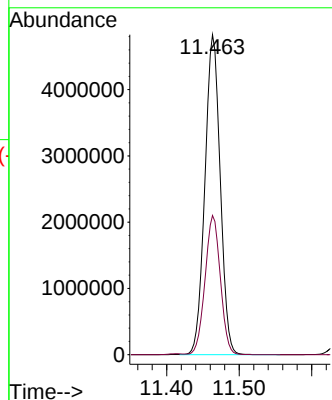
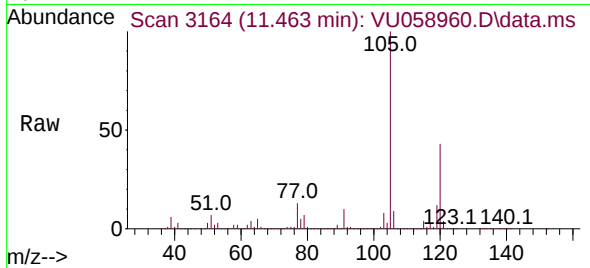
ClientSampleId :

Tgt Ion:105 Resp: 7073160

Ion Ratio Lower Upper

105 100

120 43.5 35.3 52.9



#68

1,2-Dibromo-3-chloropropane

Concen: 7.756 ug/L

RT: 12.968 min Scan# 3632

Delta R.T. -0.023 min

Lab File: VU058960.D

Acq: 23 May 2024 19:58

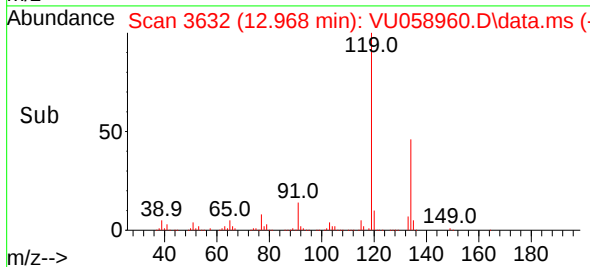
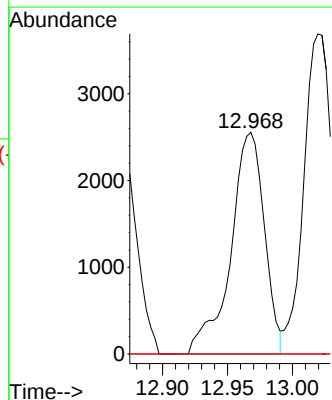
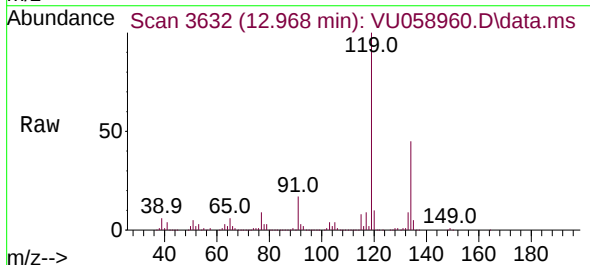
Tgt Ion: 75 Resp: 4619

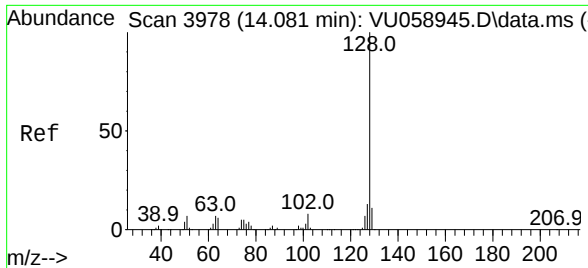
Ion Ratio Lower Upper

75 100

155 0.0 60.2 90.4#

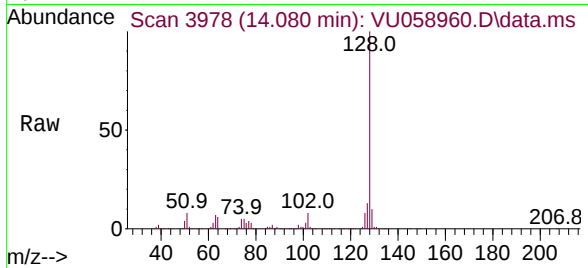
157 0.0 77.2 115.8#





#71  
 Naphthalene  
 Concen: 49.522 ug/L  
 RT: 14.080 min Scan# 30  
 Delta R.T. -0.000 min  
 Lab File: VU058960.D  
 Acq: 23 May 2024 19:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 251311 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.4  | 10.8  | 16.2   |
| 129      | 11.6  | 8.8   | 13.2   |

