

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120421\  
 Data File : VY006934.D  
 Acq On : 04 Dec 2021 12:30  
 Operator : SY/MD  
 Sample : M4884-04  
 Misc : 2.24g/10.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EW9J0

Quant Time: Dec 05 06:07:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYLEM120321SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 04 02:26:29 2021  
 Response via : Initial Calibration

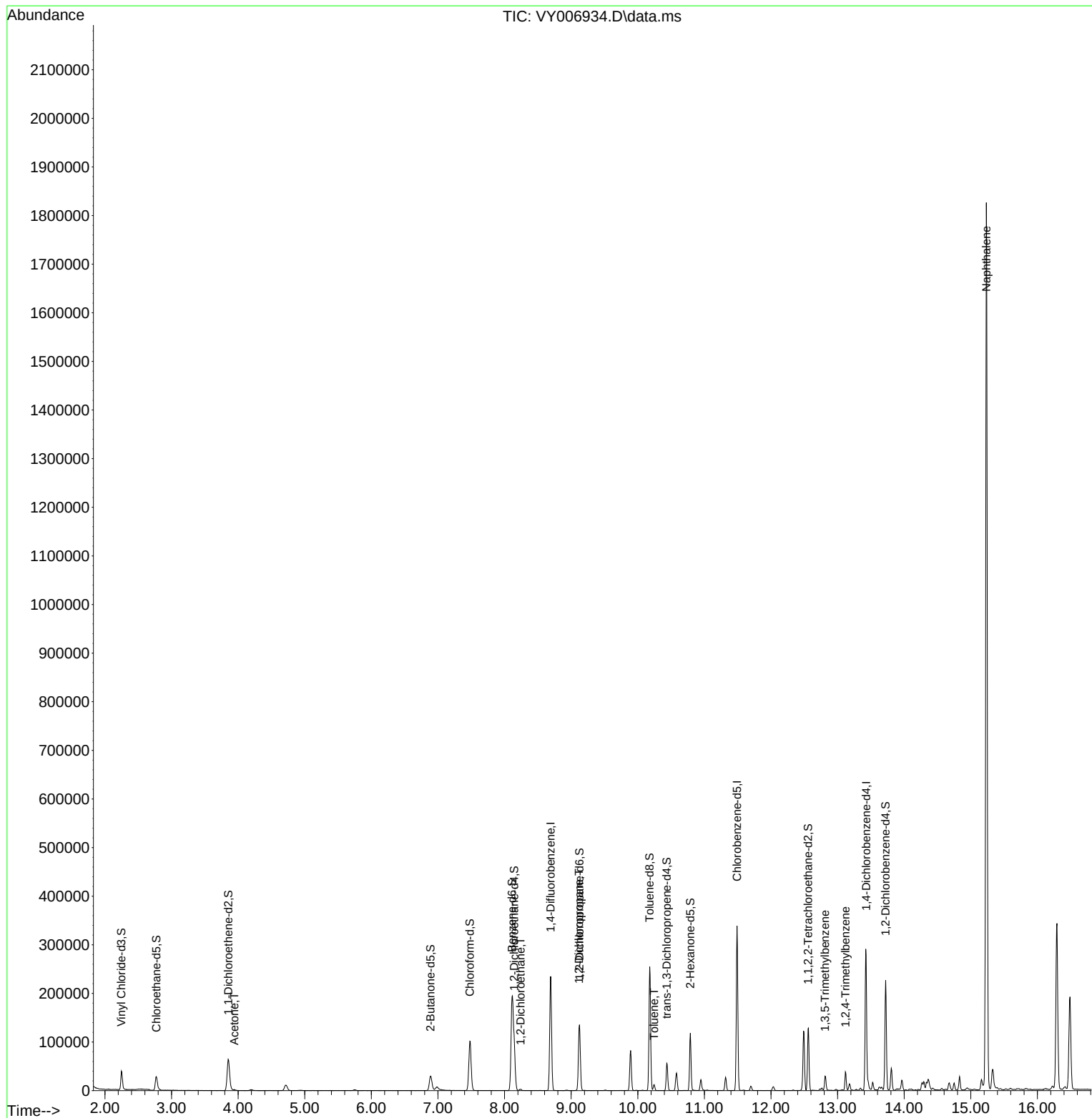
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.691  | 114   | 190024   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.490 | 117   | 171184   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 72126    | 25.000   | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.247  | 65    | 38672    | 15.801   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 63.200%  |
| 7) Chloroethane-d5            | 2.772  | 69    | 34779    | 18.116   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 72.480%  |
| 11) 1,1-Dichloroethene-d2     | 3.851  | 63    | 61995    | 12.185   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 48.720%  |
| 21) 2-Butanone-d5             | 6.887  | 46    | 54220    | 57.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 114.720% |
| 24) Chloroform-d              | 7.478  | 84    | 99540    | 21.019   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 84.080%  |
| 26) 1,2-Dichloroethane-d4     | 8.143  | 65    | 65137    | 22.915   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 91.640%  |
| 32) Benzene-d6                | 8.112  | 84    | 186135   | 20.470   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 81.880%  |
| 36) 1,2-Dichloropropane-d6    | 9.124  | 67    | 62724    | 21.954   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 87.800%  |
| 41) Toluene-d8                | 10.179 | 98    | 161638   | 18.979   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 75.920%  |
| 43) trans-1,3-Dichloroprop... | 10.435 | 79    | 29049    | 21.021   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 84.080%  |
| 47) 2-Hexanone-d5             | 10.789 | 63    | 37292    | 56.396   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 112.800% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.557 | 84    | 59480    | 24.989   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 99.960%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.721 | 152   | 54275    | 23.075   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 92.320%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 13) Acetone                   | 3.942  | 43    | 2990     | 3.451    | ug/L   | 97       |
| 27) 1,2-Dichloroethane        | 8.240  | 62    | 2594     | 0.689    | ug/L # | 93       |
| 37) 1,2-Dichloropropane       | 9.118  | 63    | 7445     | 2.524    | ug/L # | 87       |
| 42) Toluene                   | 10.246 | 91    | 8431     | 0.687    | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.813 | 105   | 11112    | 1.280    | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 13.117 | 105   | 19052    | 2.244    | ug/L   | 98       |
| 71) Naphthalene               | 15.233 | 128   | 1402261  | 268.407  | ug/L   | 100      |
| -----                         |        |       |          |          |        |          |

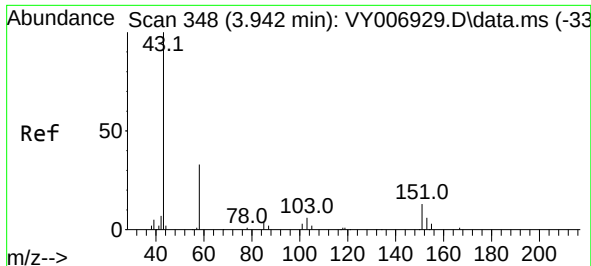
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Dec 04 02:26:29 2021  
Response via : Initial Calibration





#13

Acetone

Concen: 3.451 ug/L

RT: 3.942 min Scan# 348

Delta R.T. 0.000 min

Lab File: VY006934.D

Acq: 04 Dec 2021 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

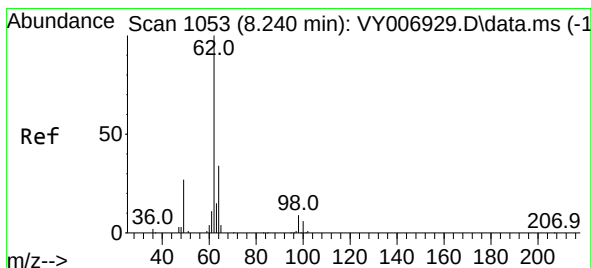
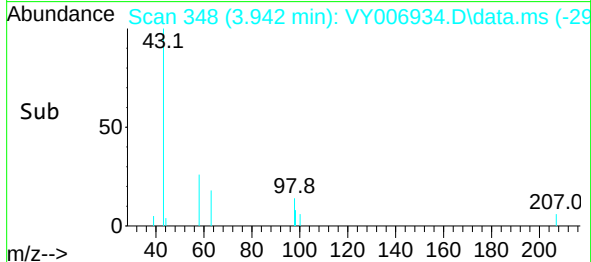
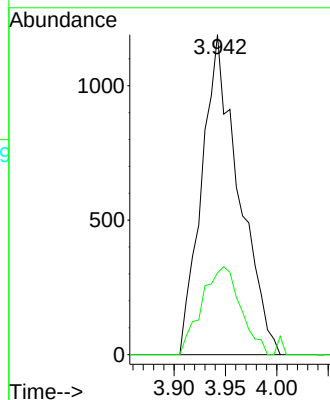
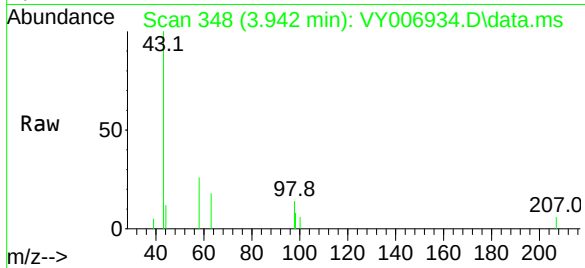
EW9J0

Tgt Ion: 43 Resp: 2990

Ion Ratio Lower Upper

43 100

58 28.8 0.0 60.8



#27

1,2-Dichloroethane

Concen: 0.689 ug/L

RT: 8.240 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VY006934.D

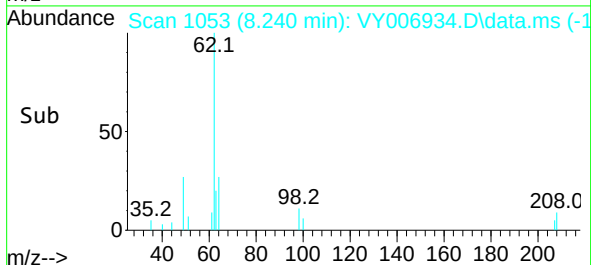
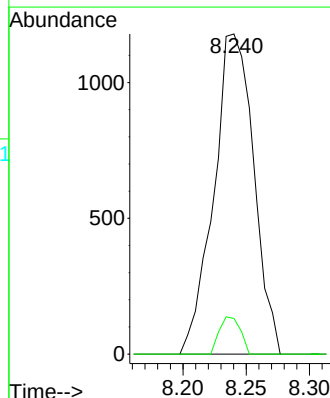
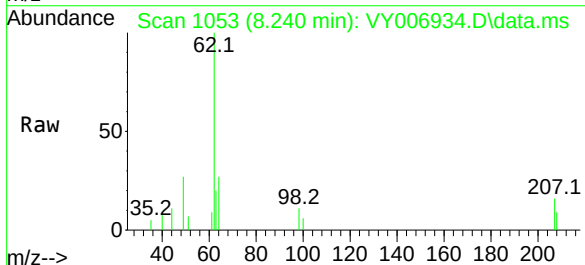
Acq: 04 Dec 2021 12:30

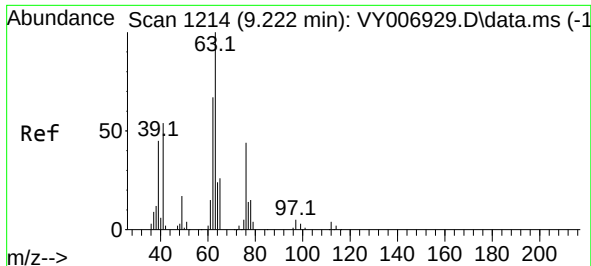
Tgt Ion: 62 Resp: 2594

Ion Ratio Lower Upper

62 100

98 11.1 6.9 10.3#





#37

1,2-Dichloropropane

Concen: 2.524 ug/L

RT: 9.118 min Scan# 1197

Delta R.T. -0.097 min

Lab File: VY006934.D

Acq: 04 Dec 2021 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

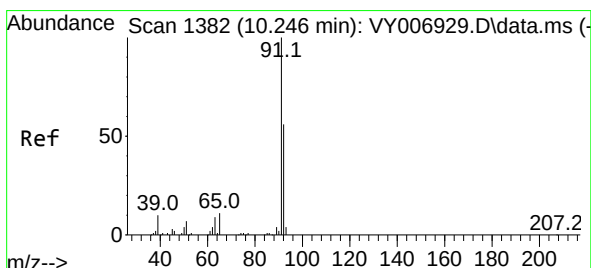
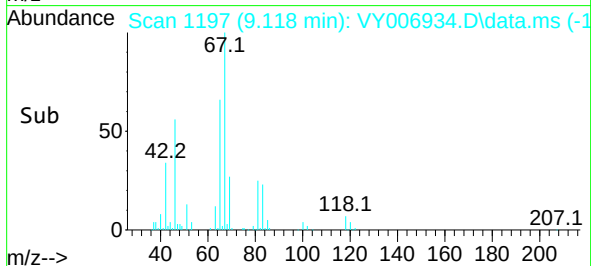
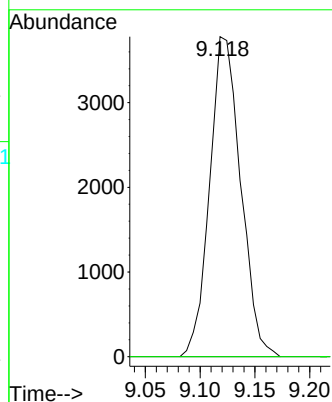
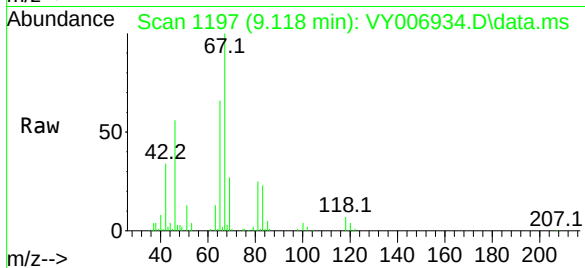
EW9J0

Tgt Ion: 63 Resp: 7445

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#42

Toluene

Concen: 0.687 ug/L

RT: 10.246 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VY006934.D

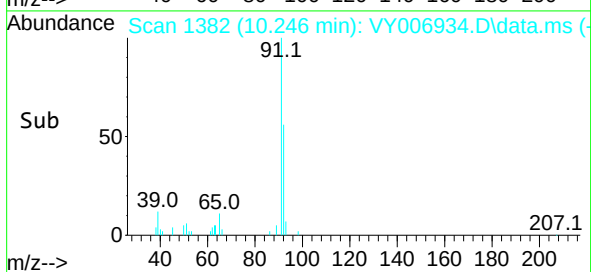
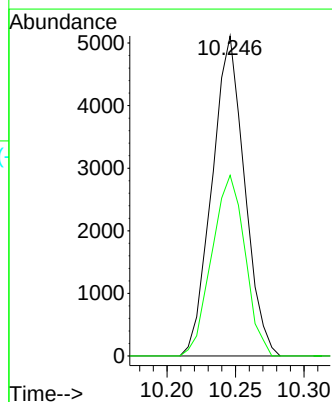
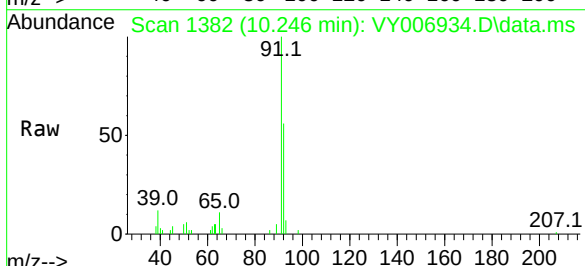
Acq: 04 Dec 2021 12:30

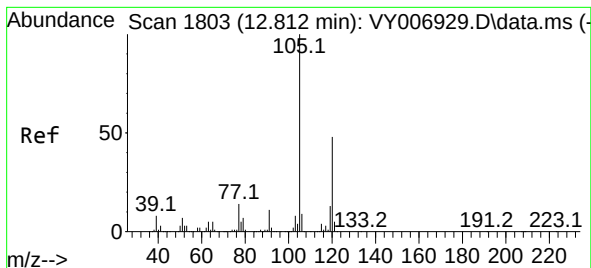
Tgt Ion: 91 Resp: 8431

Ion Ratio Lower Upper

91 100

92 56.4 39.8 74.0





#62

1,3,5-Trimethylbenzene

Concen: 1.280 ug/L

RT: 12.813 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY006934.D

Acq: 04 Dec 2021 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

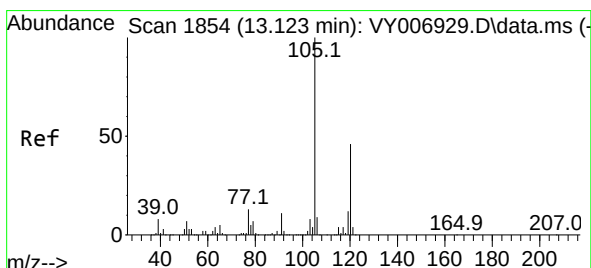
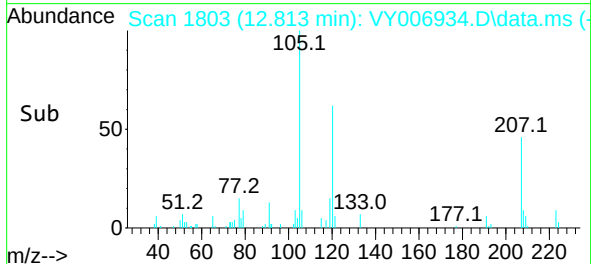
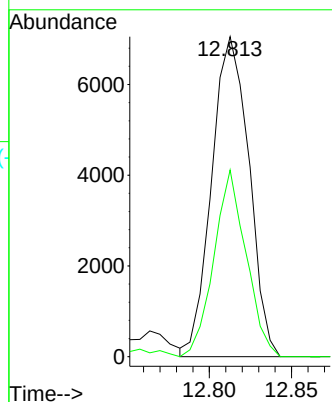
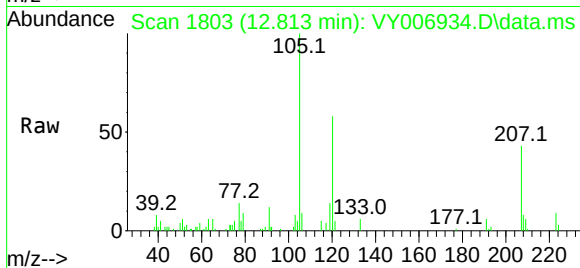
EW9J0

Tgt Ion:105 Resp: 11112

Ion Ratio Lower Upper

105 100

120 50.4 39.0 58.4



#63

1,2,4-Trimethylbenzene

Concen: 2.244 ug/L

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY006934.D

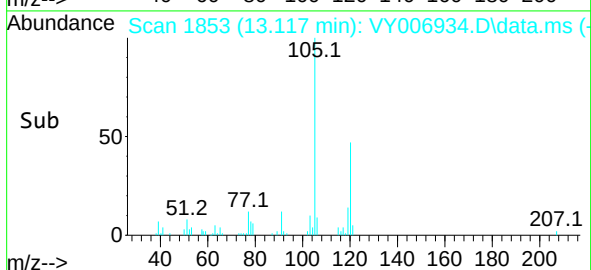
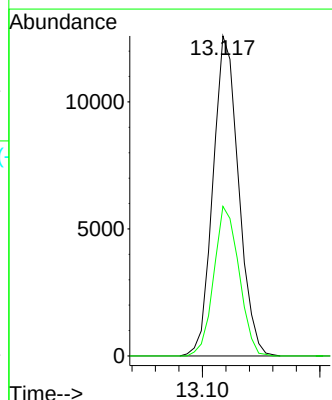
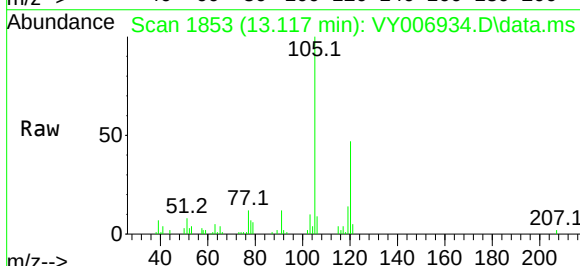
Acq: 04 Dec 2021 12:30

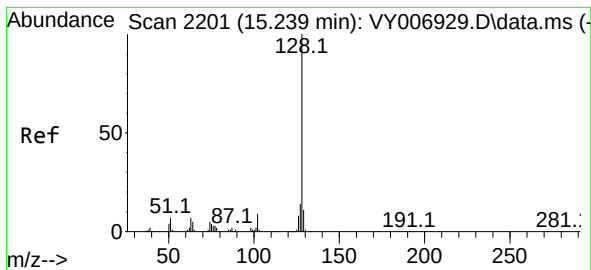
Tgt Ion:105 Resp: 19052

Ion Ratio Lower Upper

105 100

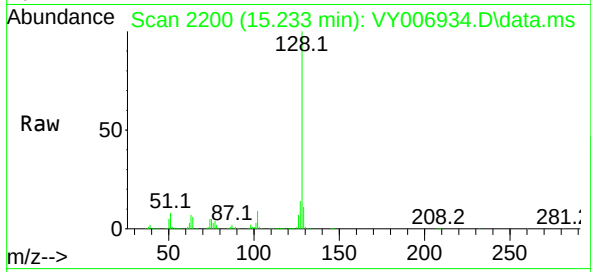
120 46.0 36.0 54.0





#71  
Naphthalene  
Concen: 268.407 ug/L  
RT: 15.233 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VY006934.D  
Acq: 04 Dec 2021 12:30

Instrument :  
MSVOA\_Y  
ClientSampleId :  
EW9J0



Tgt Ion:128 Resp: 1402261  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.8 16.2  
129 10.9 8.7 13.1

