

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP100522\  
 Data File : BP012010.D  
 Acq On : 07 Oct 2022 15:33  
 Operator : CG/JU  
 Sample : N4923-09DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 E10011DL

Quant Time: Oct 07 23:08:48 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP093022.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 07 03:22:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.875  | 152  | 168689   | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.687 | 136  | 654162   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.522 | 164  | 380318   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.281 | 188  | 796296   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.369 | 240  | 860443   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.798 | 264  | 899147   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.305  | 96   | 1758     | 0.460  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.752  | 84   | 17041    | 1.521  | ng/ul  | 0.04     |
| 7) Phenol-d5                  | 7.046  | 99   | 13202    | 0.907  | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.211  | 67   | 58537    | 7.252  | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.405  | 132  | 39508    | 3.437  | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.593  | 113  | 28479    | 2.366  | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.046  | 128  | 40572    | 8.143  | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.769  | 143  | 24067    | 4.515  | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.305 | 165  | 44198    | 4.482  | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.828 | 131  | 113455   | 7.547  | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.934 | 166  | 214110   | 7.873  | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.216 | 160  | 260319   | 8.396  | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.716 | 143  | 1370     | 0.243  | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.516 | 176  | 198988   | 8.425  | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.640 | 200  | 12931    | 2.683  | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.381 | 188  | 312366   | 8.612  | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.616 | 212  | 375147   | 8.609  | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.639 | 264  | 374869   | 8.329  | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 13) 2-Methylphenol            | 8.322  | 108  | 242611   | 20.387 | ng/ul  | 98       |
| 18) 4-Methylphenol            | 8.652  | 108  | 25282    | 1.928  | ng/ul  | 98       |
| 26) 2,4-Dimethylphenol        | 9.863  | 107  | 440612   | 38.523 | ng/ul  | 97       |
| 30) Naphthalene               | 10.734 | 128  | 1868043  | 53.166 | ng/ul  | 100      |
| 36) 2-Methylnaphthalene       | 12.346 | 142  | 43079    | 1.756  | ng/ul  | 99       |
| 37) 1-Methylnaphthalene       | 12.563 | 142  | 1338580  | 54.367 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 13.357 | 154  | 268283   | 9.537  | ng/ul  | 98       |
| 50) Acenaphthylene            | 14.246 | 152  | 359676   | 10.445 | ng/ul  | 99       |
| 52) Acenaphthene              | 14.587 | 153  | 693375   | 28.541 | ng/ul  | 99       |
| 56) Dibenzofuran              | 14.922 | 168  | 611598   | 18.380 | ng/ul  | 98       |
| 61) Fluorene                  | 15.575 | 166  | 262307   | 9.625  | ng/ul  | 99       |
| 72) Phenanthrene              | 17.322 | 178  | 920142   | 21.026 | ng/ul  | 99       |
| 74) Anthracene                | 17.416 | 178  | 121793   | 2.766  | ng/ul  | 99       |
| 77) Carbazole                 | 17.692 | 167  | 132882   | 3.340  | ng/ul  | 99       |
| 80) Fluoranthene              | 19.292 | 202  | 554051   | 10.389 | ng/ul  | 99       |
| 82) Pyrene                    | 19.645 | 202  | 441201   | 7.946  | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.351 | 228  | 187129   | 3.326  | ng/ul  | 97       |
| 87) Chrysene                  | 21.404 | 228  | 152828   | 2.894  | ng/ul  | 97       |
| 90) Benzo(b)fluoranthene      | 23.057 | 252  | 231226   | 4.029  | ng/ul  | 96       |
| 91) Benzo(k)fluoranthene      | 23.057 | 252  | 231226   | 4.184  | ng/ul  | 96       |
| 93) Benzo(a)pyrene            | 23.692 | 252  | 153559   | 2.998  | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.327 | 276  | 92037    | 1.412  | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 27.110 | 276  | 91948    | 1.591  | ng/ul  | 96       |
| -----                         |        |      |          |        |        |          |

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Instrument :  
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E10011DL

Quant Time: Oct 07 23:08:48 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP093022.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 07 03:22:44 2022  
Response via : Initial Calibration

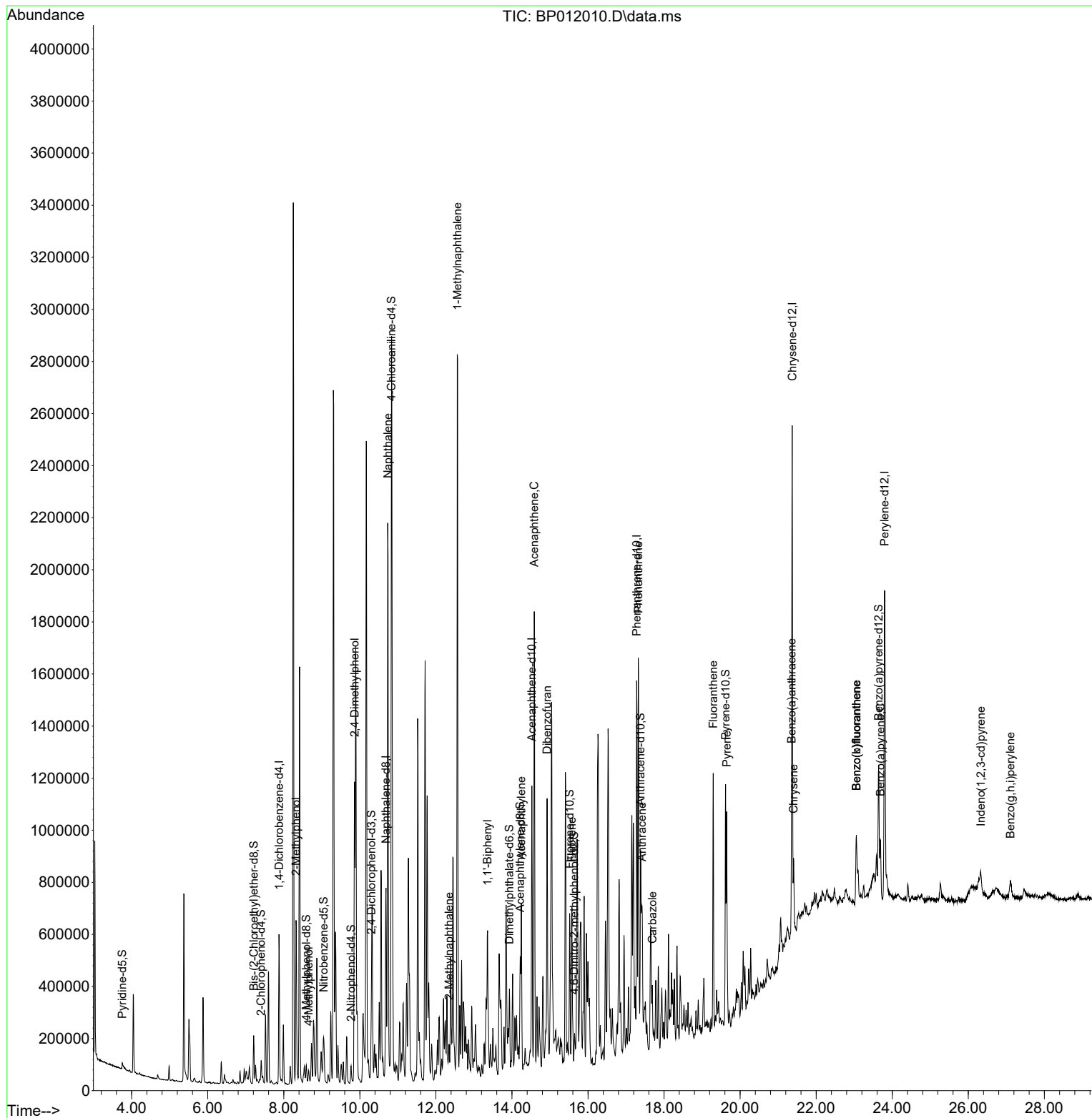
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

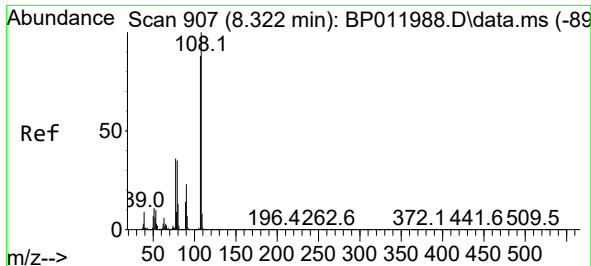
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

2-Methylphenol

Concen: 20.387 ng/ul

RT: 8.322 min Scan# 907

Delta R.T. 0.000 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

Instrument :

BNA\_P

ClientSampleId :

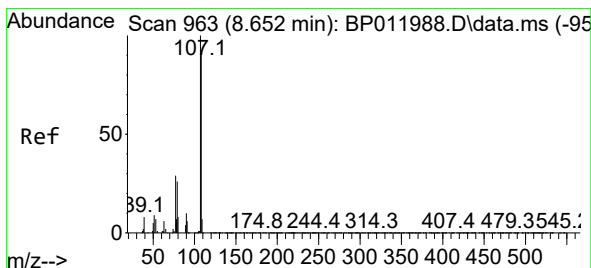
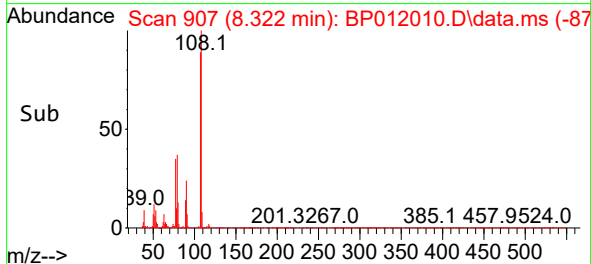
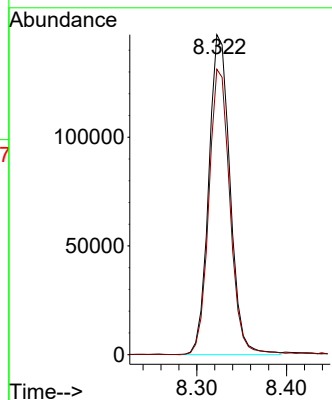
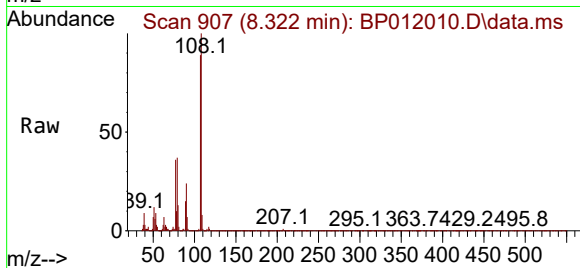
E10011DL

Tgt Ion:108 Resp: 242611

Ion Ratio Lower Upper

108 100

107 89.2 70.2 105.2



#18

4-Methylphenol

Concen: 1.928 ng/ul

RT: 8.652 min Scan# 963

Delta R.T. 0.000 min

Lab File: BP012010.D

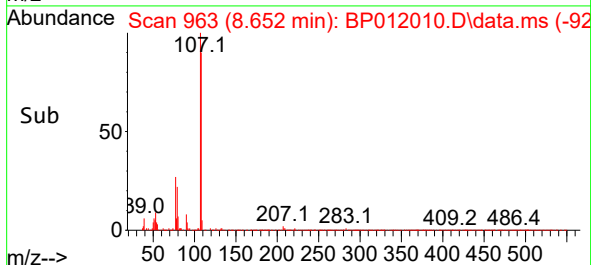
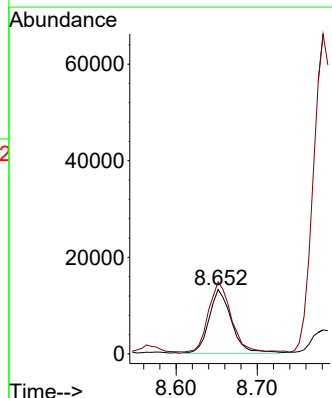
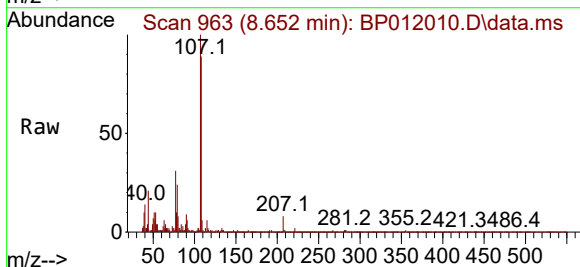
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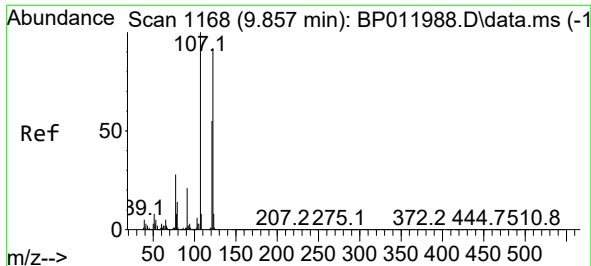
Tgt Ion:108 Resp: 25282

Ion Ratio Lower Upper

108 100

107 111.8 88.0 132.0

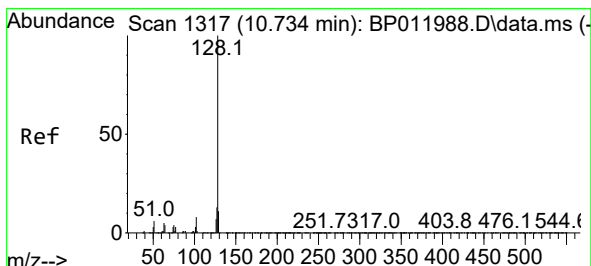
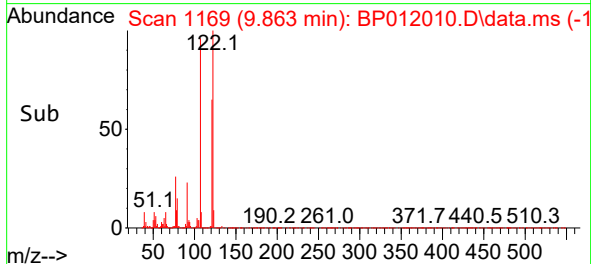
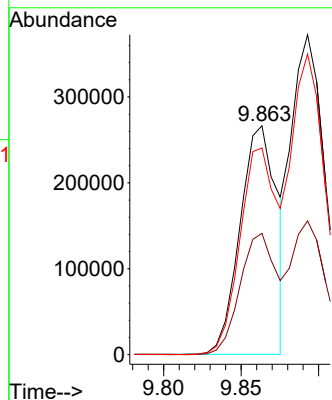
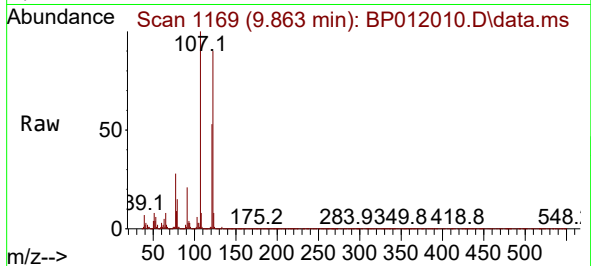




#26  
2,4-Dimethylphenol  
Concen: 38.523 ng/ul  
RT: 9.863 min Scan# 1169  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

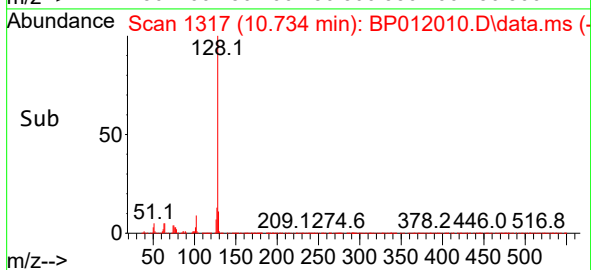
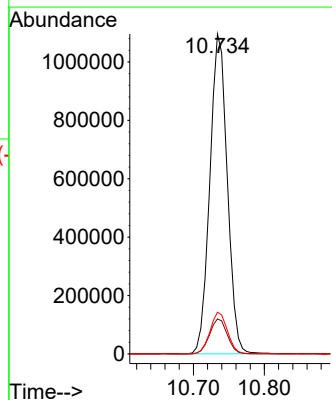
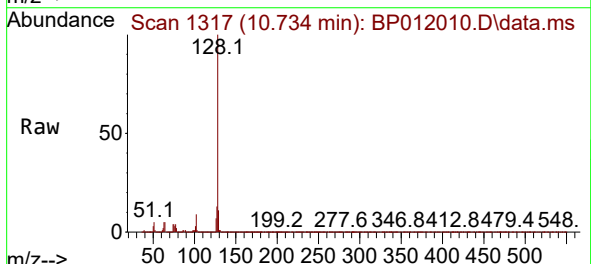
Instrument :  
BNA\_P  
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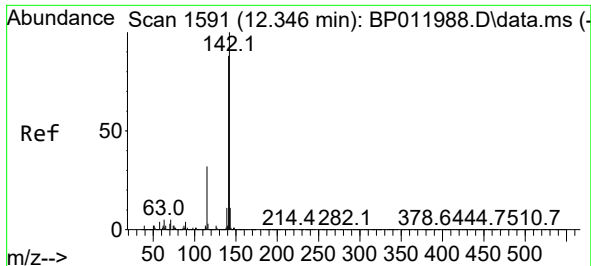
Tgt Ion:107 Resp: 440612  
Ion Ratio Lower Upper  
107 100  
121 53.0 43.0 64.6  
122 90.3 74.9 112.3



#30  
Naphthalene  
Concen: 53.166 ng/ul  
RT: 10.734 min Scan# 1317  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:128 Resp: 1868043  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.9 13.3  
127 13.1 10.5 15.7

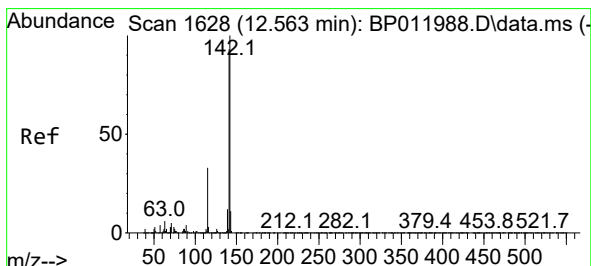
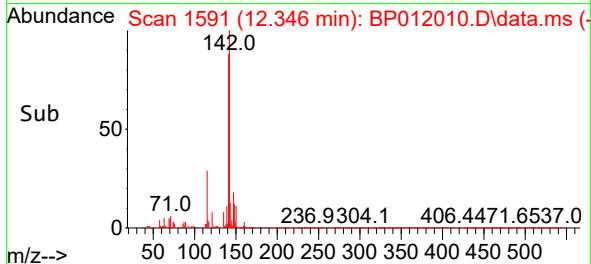
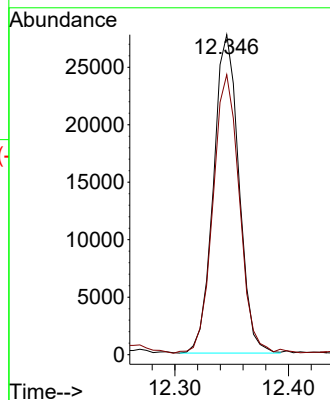
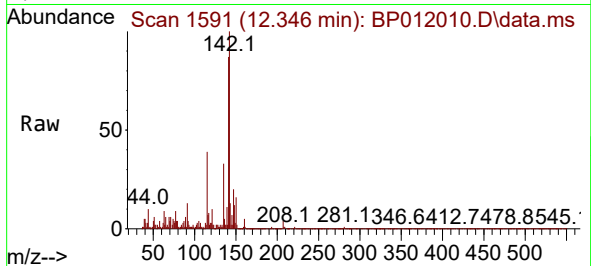




#36  
2-Methylnaphthalene  
Concen: 1.756 ng/ul  
RT: 12.346 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

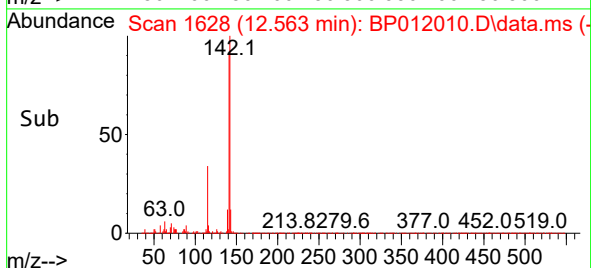
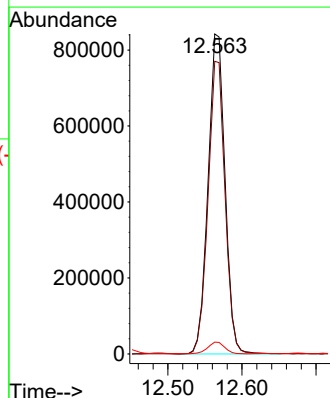
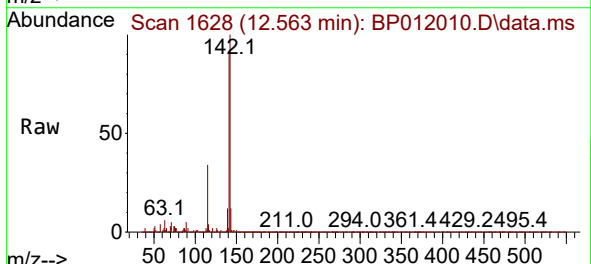
Instrument :  
BNA\_P  
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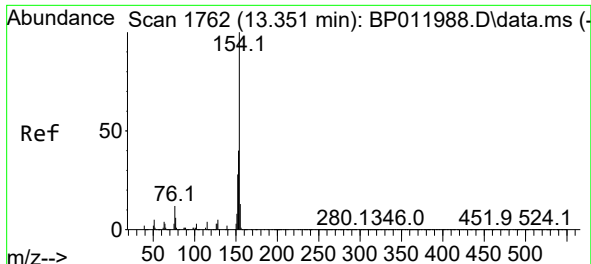
Tgt Ion:142 Resp: 43079  
Ion Ratio Lower Upper  
142 100  
141 87.5 70.6 106.0



#37  
1-Methylnaphthalene  
Concen: 54.367 ng/ul  
RT: 12.563 min Scan# 1628  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:142 Resp: 1338580  
Ion Ratio Lower Upper  
142 100  
141 91.4 74.8 112.2  
116 3.7 2.9 4.3

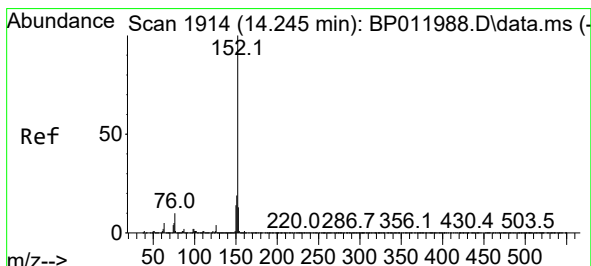
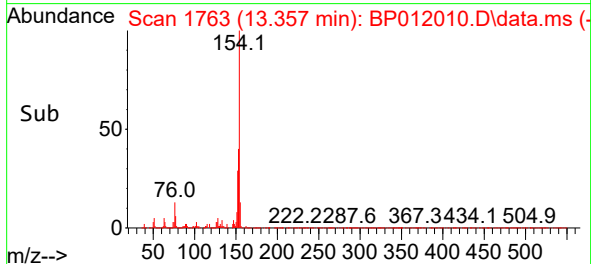
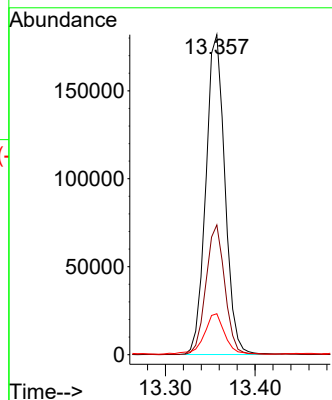
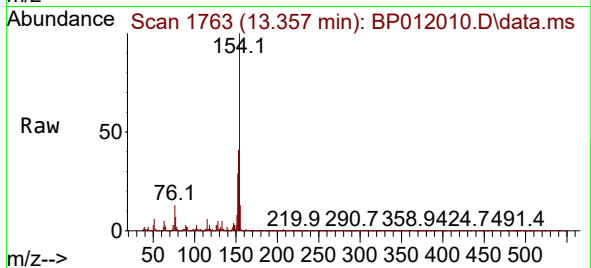




#43  
1,1'-Biphenyl  
Concen: 9.537 ng/ul  
RT: 13.357 min Scan# 1763  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

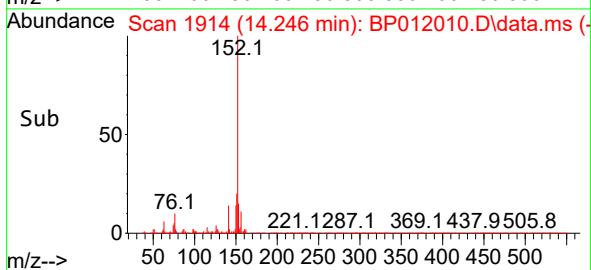
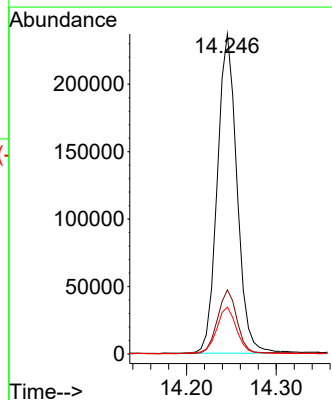
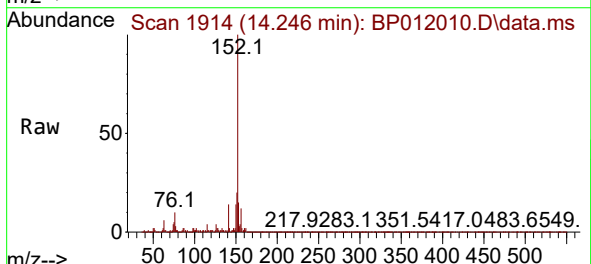
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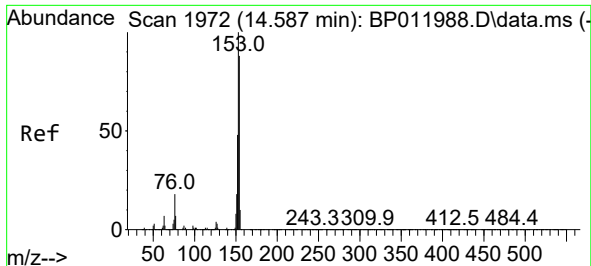
Tgt Ion:154 Resp: 268283  
Ion Ratio Lower Upper  
154 100  
153 40.6 31.8 47.6  
76 12.8 9.5 14.3



#50  
Acenaphthylene  
Concen: 10.445 ng/ul  
RT: 14.246 min Scan# 1914  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:152 Resp: 359676  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.0 24.0  
153 14.7 10.8 16.2

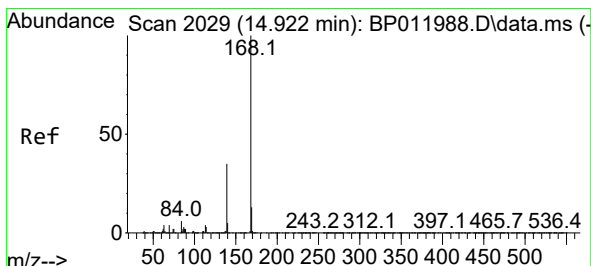
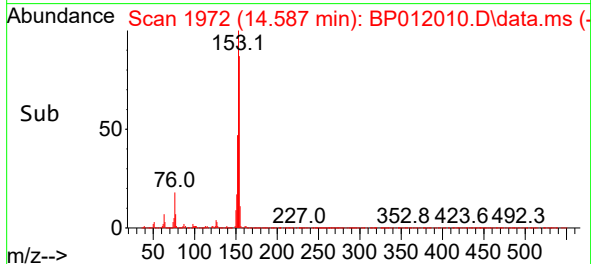
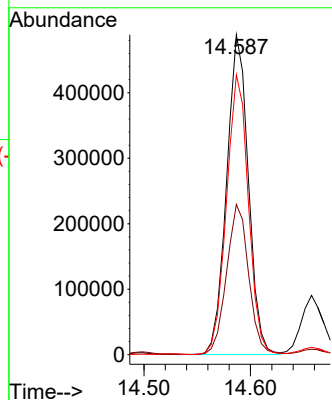
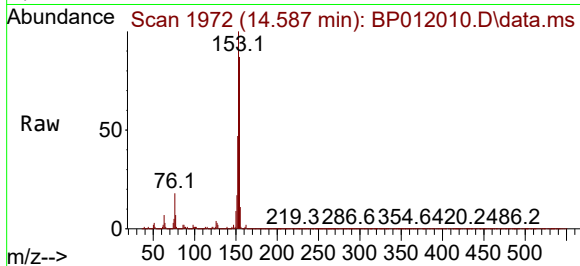




#52  
Acenaphthene  
Concen: 28.541 ng/ul  
RT: 14.587 min Scan# 1972  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

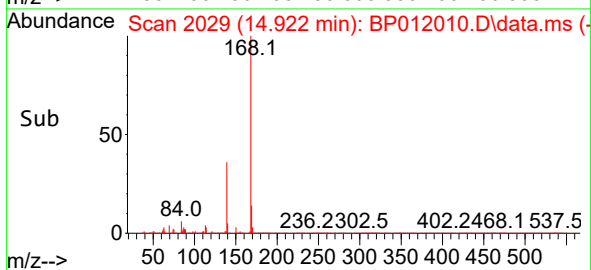
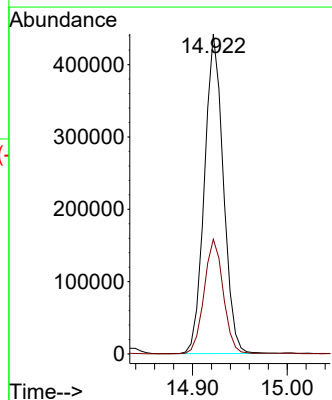
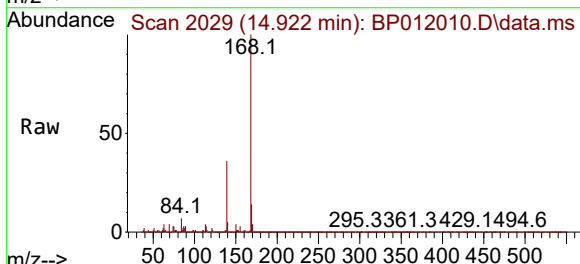
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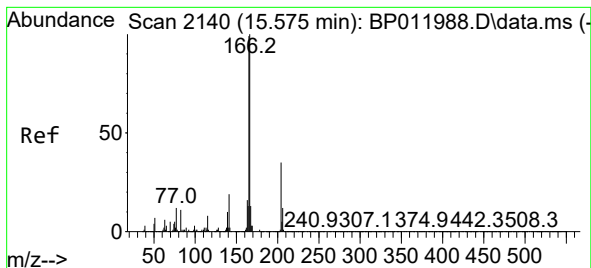
Tgt Ion:153 Resp: 693375  
Ion Ratio Lower Upper  
153 100  
152 46.9 38.4 57.6  
154 87.4 70.6 105.8



#56  
Dibenzofuran  
Concen: 18.380 ng/ul  
RT: 14.922 min Scan# 2029  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:168 Resp: 611598  
Ion Ratio Lower Upper  
168 100  
139 35.9 29.4 44.2





#61

Fluorene

Concen: 9.625 ng/ul

RT: 15.575 min Scan# 2140

Delta R.T. 0.000 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

Instrument :

BNA\_P

ClientSampleId :

E10011DL

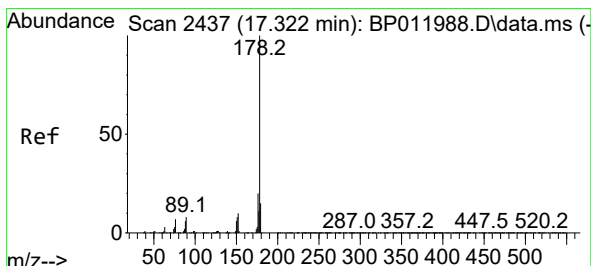
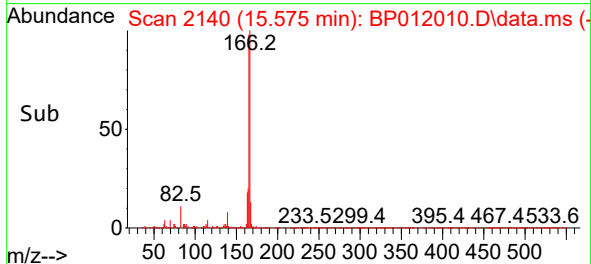
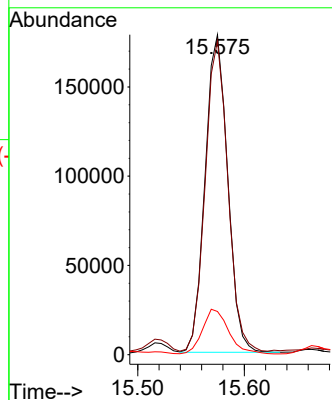
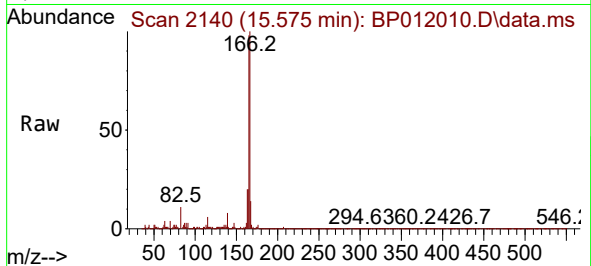
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Ion Ratio Lower Upper

166 100

165 98.1 77.2 115.8

167 13.5 10.7 16.1



#72

Phenanthrene

Concen: 21.026 ng/ul

RT: 17.322 min Scan# 2437

Delta R.T. 0.000 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

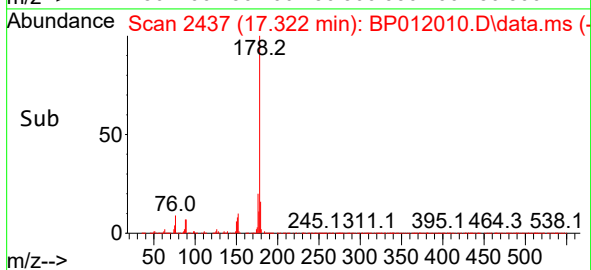
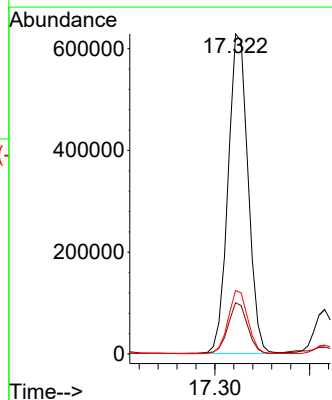
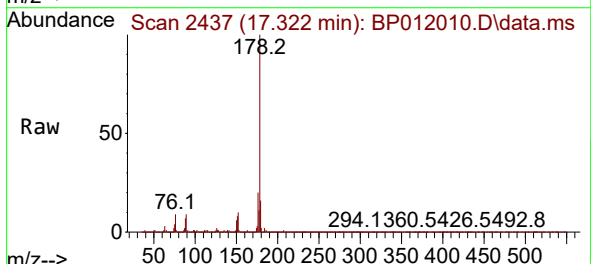
Tgt Ion:178 Resp: 920142

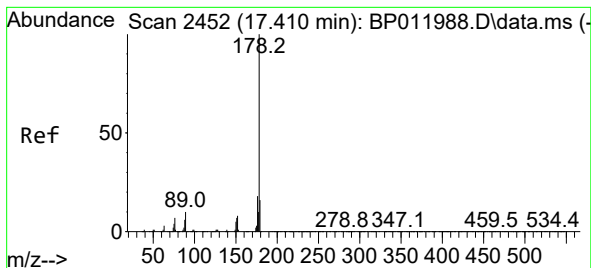
Ion Ratio Lower Upper

178 100

179 16.0 12.5 18.7

176 19.8 15.4 23.2





#74

Anthracene

Concen: 2.766 ng/ul

RT: 17.416 min Scan# 24

Delta R.T. 0.006 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

Instrument :

BNA\_P

ClientSampleId :

E10011DL

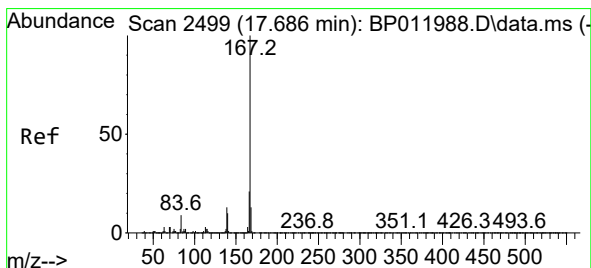
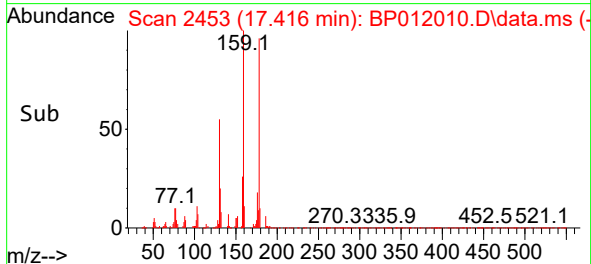
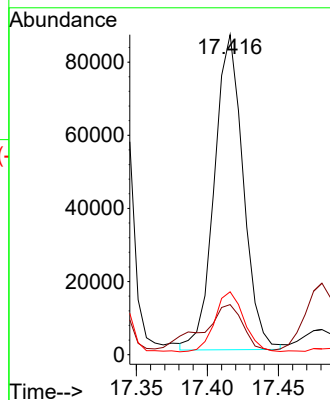
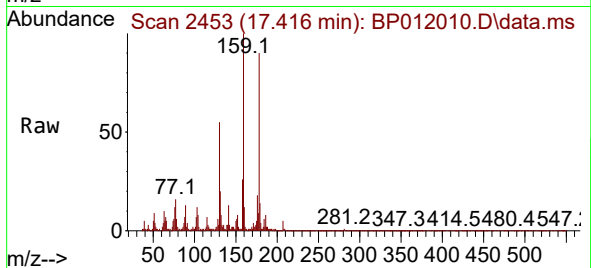
Tgt Ion:178 Resp: 121793

Ion Ratio Lower Upper

178 100

179 15.7 12.3 18.5

176 19.6 15.4 23.2



#77

Carbazole

Concen: 3.340 ng/ul

RT: 17.692 min Scan# 2500

Delta R.T. 0.006 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

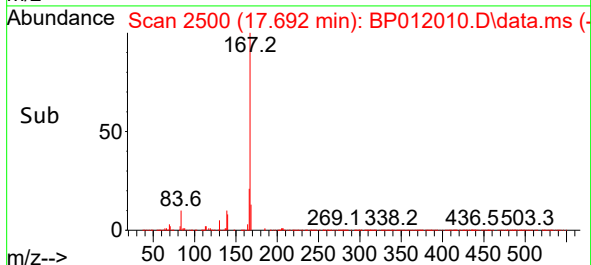
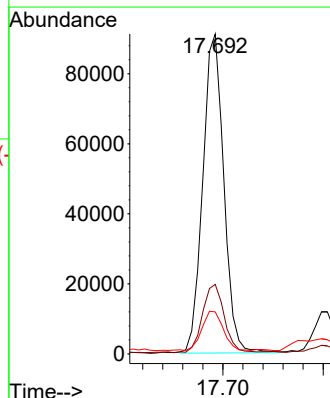
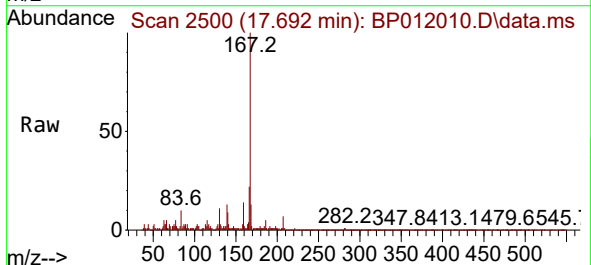
Tgt Ion:167 Resp: 132882

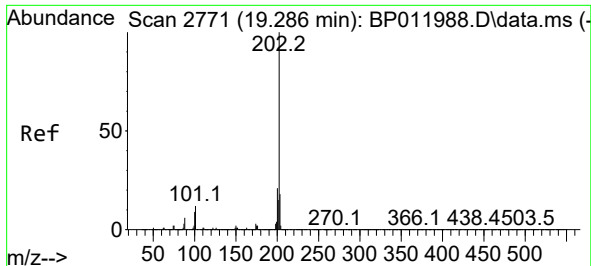
Ion Ratio Lower Upper

167 100

166 21.7 17.1 25.7

139 13.2 10.1 15.1

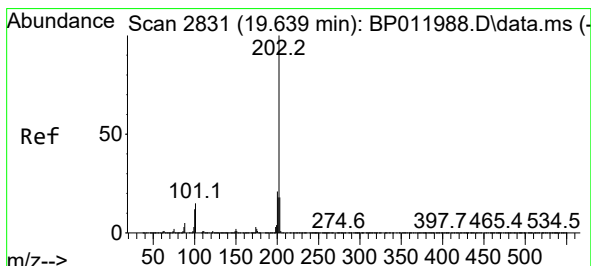
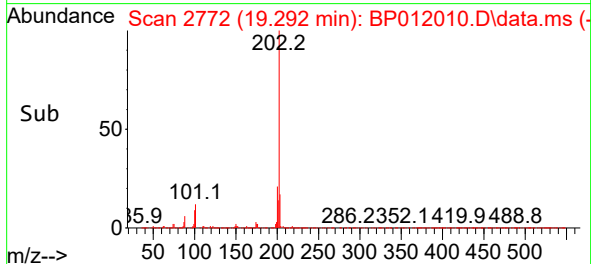
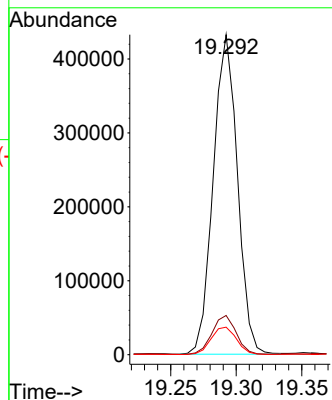
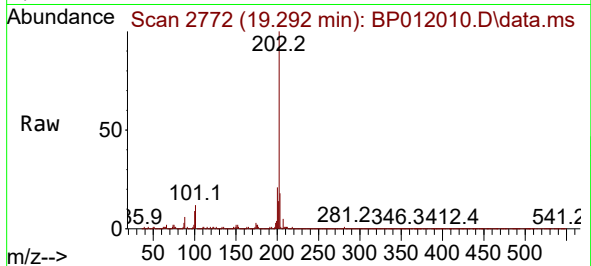




#80  
Fluoranthene  
Concen: 10.389 ng/ul  
RT: 19.292 min Scan# 2772  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

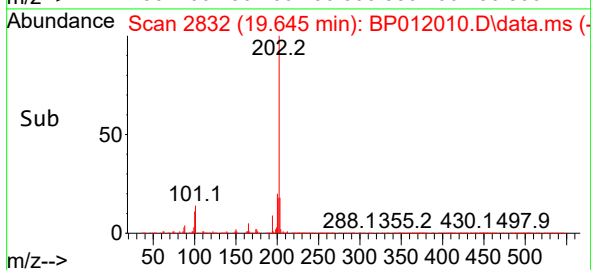
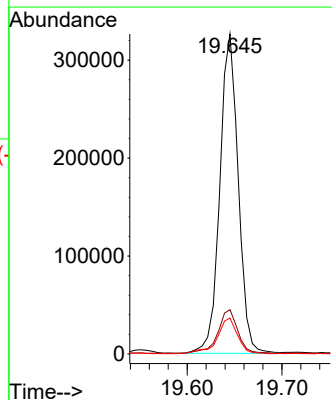
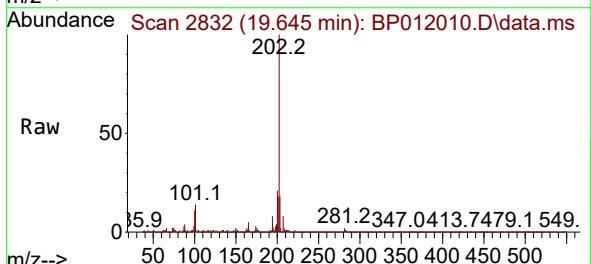
Instrument :  
BNA\_P  
ClientSampleId :  
E10011DL

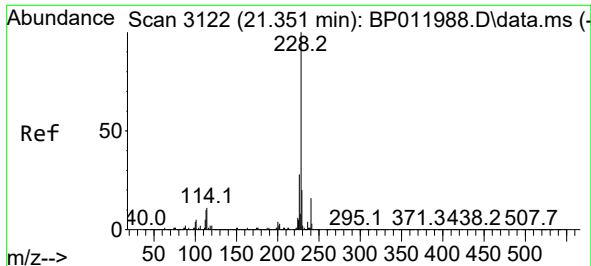
Tgt Ion:202 Resp: 554051  
Ion Ratio Lower Upper  
202 100  
101 12.2 9.8 14.6  
100 8.6 7.4 11.0



#82  
Pyrene  
Concen: 7.946 ng/ul  
RT: 19.645 min Scan# 2832  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:202 Resp: 441201  
Ion Ratio Lower Upper  
202 100  
101 13.9 11.6 17.4  
100 11.2 9.4 14.0

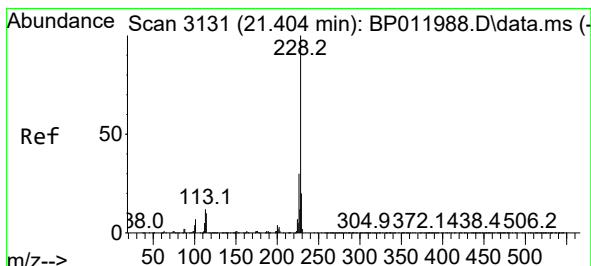
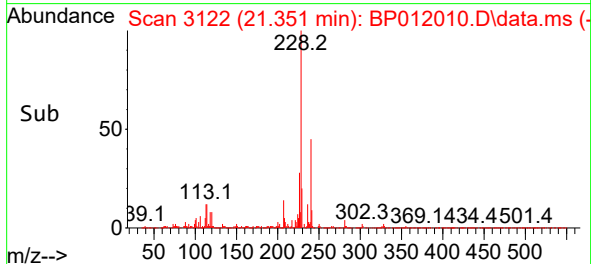
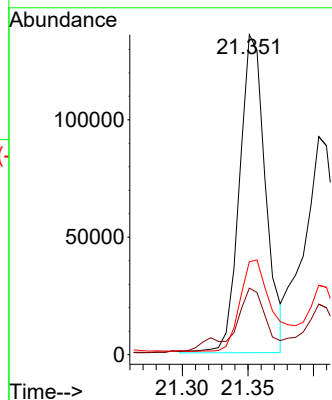
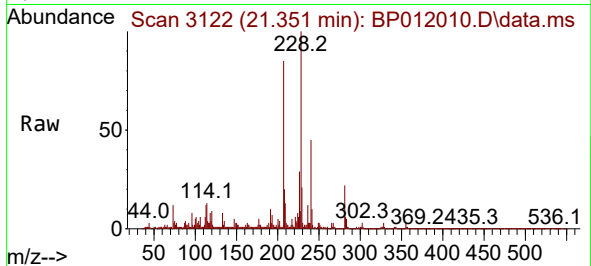




#85  
Benzo(a)anthracene  
Concen: 3.326 ng/ul  
RT: 21.351 min Scan# 3122  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

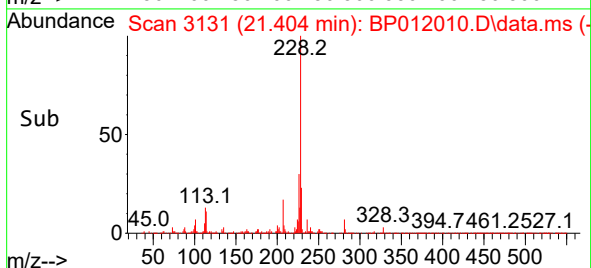
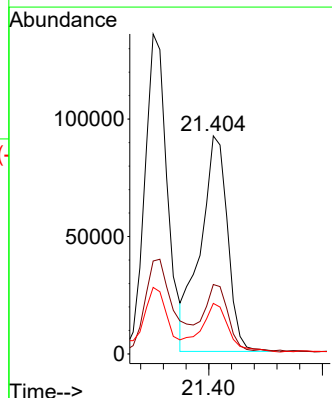
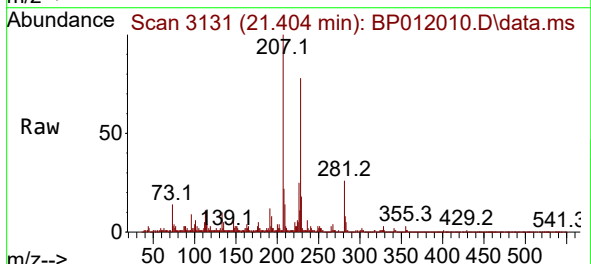
Instrument :  
BNA\_P  
ClientSampleId :  
E10011DL

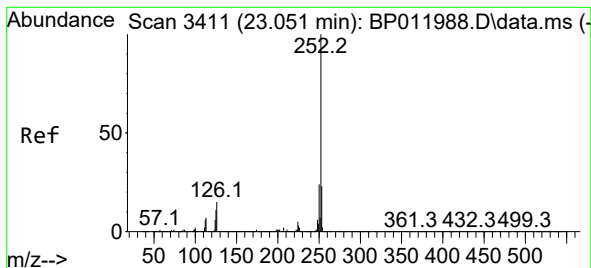
Tgt Ion:228 Resp: 187129  
Ion Ratio Lower Upper  
228 100  
229 20.8 15.8 23.6  
226 29.1 22.0 33.0



#87  
Chrysene  
Concen: 2.894 ng/ul  
RT: 21.404 min Scan# 3131  
Delta R.T. 0.000 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:228 Resp: 152828  
Ion Ratio Lower Upper  
228 100  
226 31.9 25.3 37.9  
229 23.2 16.2 24.2





#90

Benzo(b)fluoranthene

Concen: 4.029 ng/ul

RT: 23.057 min Scan# 3412

Delta R.T. 0.006 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

Instrument :

BNA\_P

ClientSampleId :

E10011DL

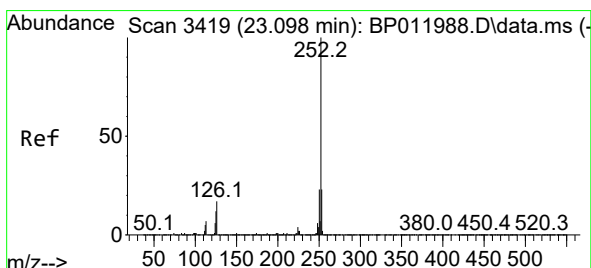
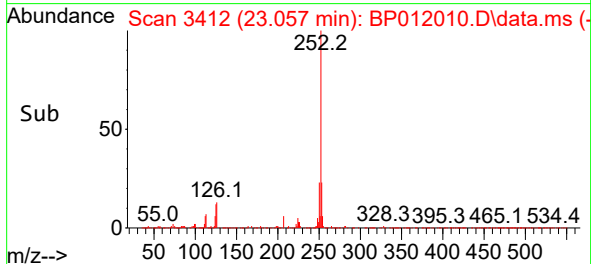
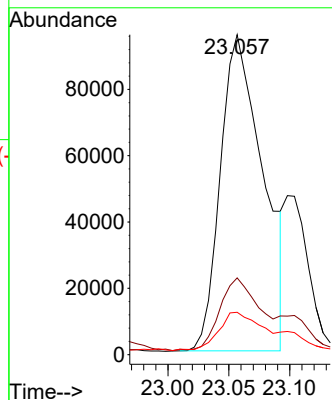
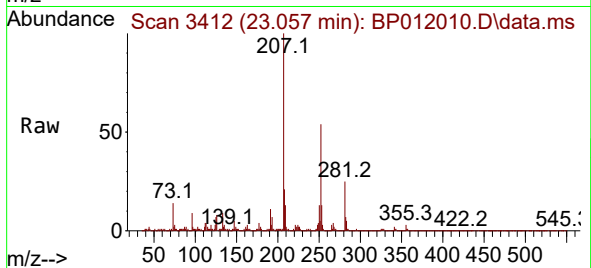
Tgt Ion:252 Resp: 231226

Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.8

125 13.2 9.2 13.8



#91

Benzo(k)fluoranthene

Concen: 4.184 ng/ul

RT: 23.057 min Scan# 3412

Delta R.T. -0.041 min

Lab File: BP012010.D

Acq: 07 Oct 2022 15:33

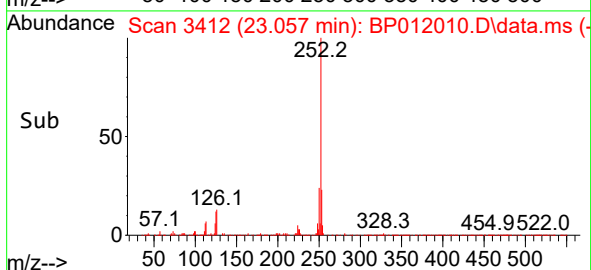
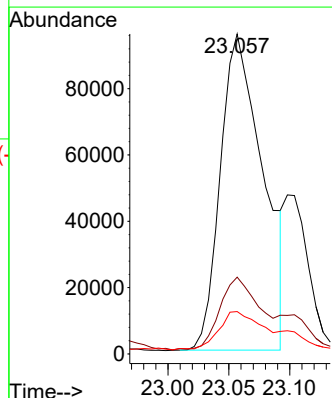
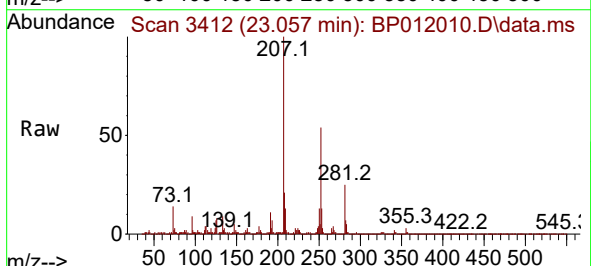
Tgt Ion:252 Resp: 231226

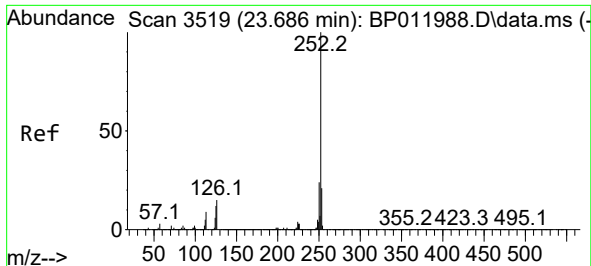
Ion Ratio Lower Upper

252 100

253 24.0 18.0 27.0

125 13.2 9.2 13.8

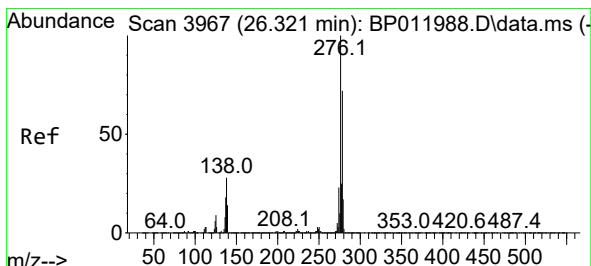
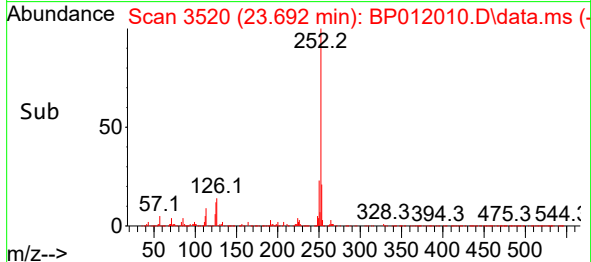
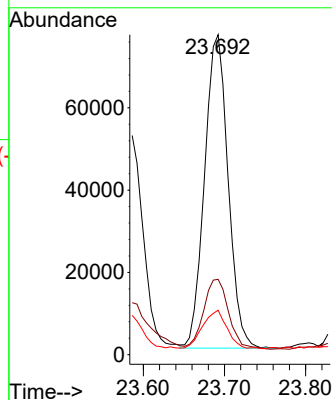
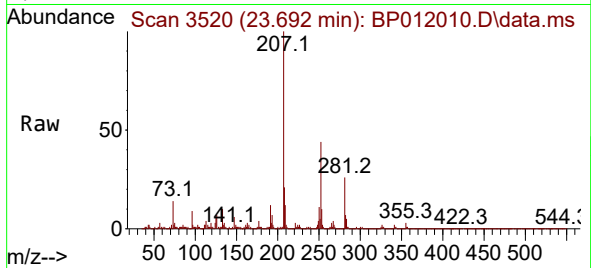




#93  
Benzo(a)pyrene  
Concen: 2.998 ng/ul  
RT: 23.692 min Scan# 3520  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

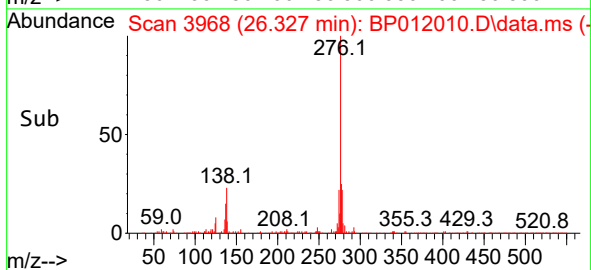
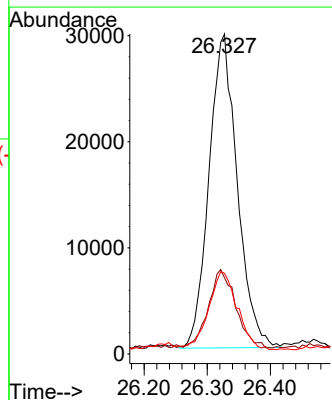
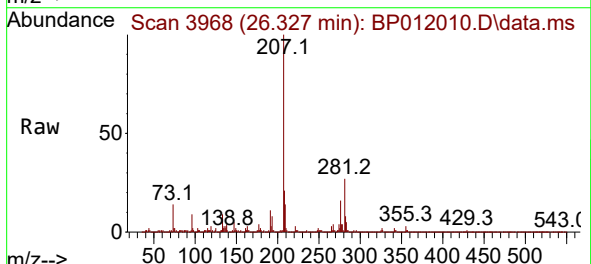
Instrument :  
BNA\_P  
ClientSampleId :  
E10011DL

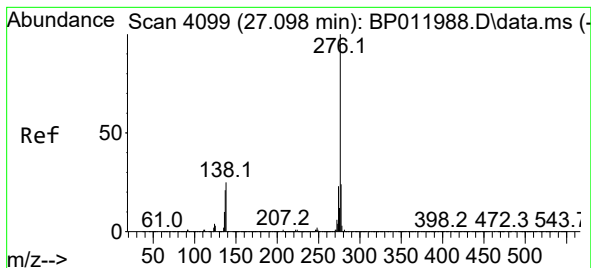
Tgt Ion:252 Resp: 153559  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.7 26.5  
125 13.9 9.8 14.8



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 1.412 ng/ul  
RT: 26.327 min Scan# 3968  
Delta R.T. 0.006 min  
Lab File: BP012010.D  
Acq: 07 Oct 2022 15:33

Tgt Ion:276 Resp: 92037  
Ion Ratio Lower Upper  
276 100  
138 23.8 21.4 32.0  
277 25.2 19.9 29.9





#96

Benzo(g,h,i)perylene

Concen: 1.591 ng/ul

RT: 27.110 min Scan# 4101

Delta R.T. 0.012 min

Lab File: BP012010.D

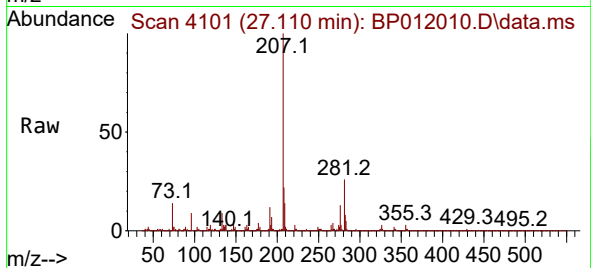
Acq: 07 Oct 2022 15:33

Instrument :

BNA\_P

ClientSampleId :

E10011DL



Tgt Ion: 276 Resp: 91948

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 21.5  | 19.8  | 29.6  |
| 277 | 24.4  | 18.6  | 27.8  |

