

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082224\  
 Data File : BF139133.D  
 Acq On : 22 Aug 2024 20:20  
 Operator : RC/JU  
 Sample : P3641-05 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-909-K1-0-0.5-081524

Quant Time: Aug 23 00:36:38 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF082024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 21 01:25:05 2024  
 Response via : Initial Calibration

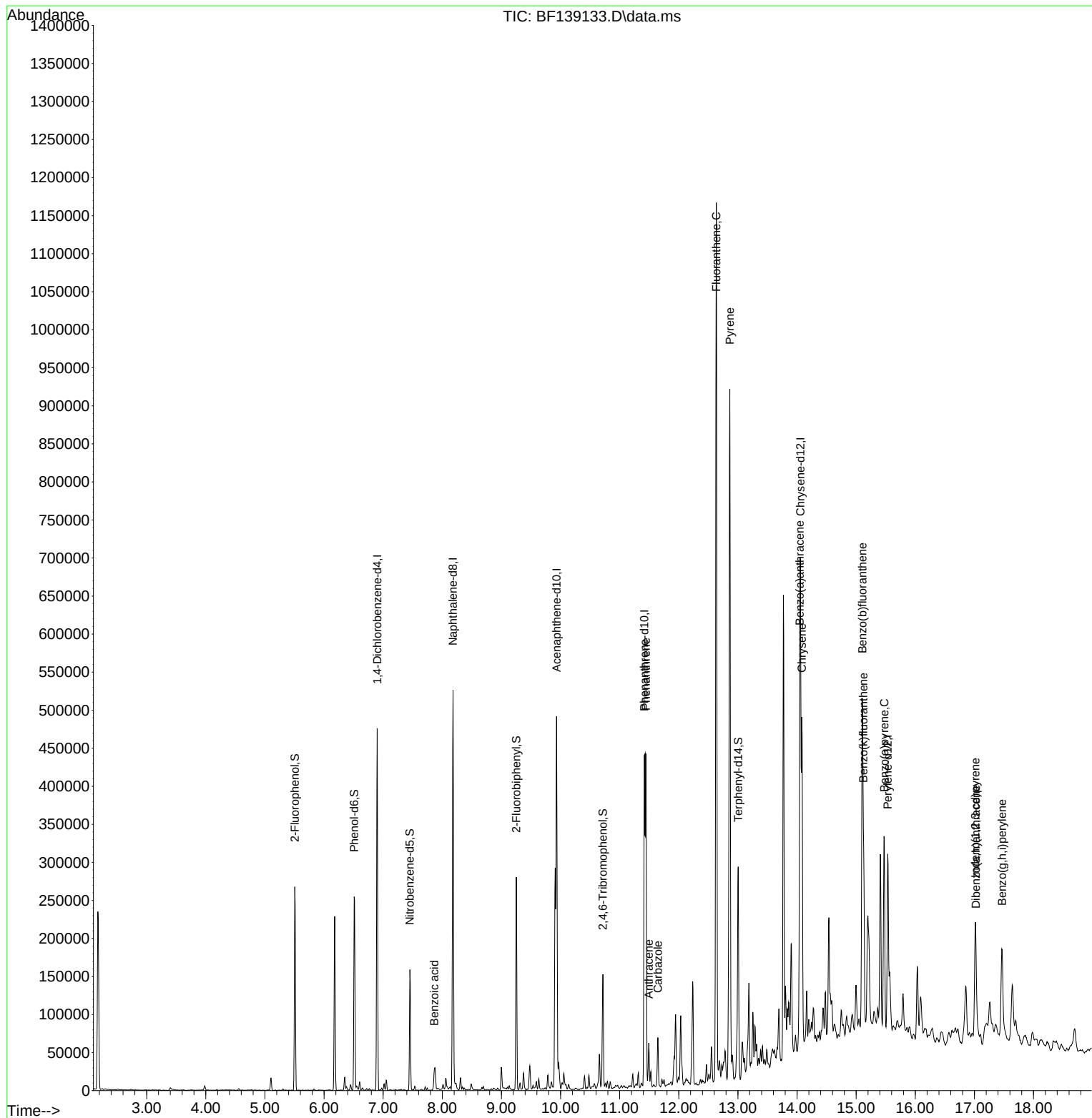
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.898  | 152  | 89053    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.181  | 136  | 293932   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.934  | 164  | 136439   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.416 | 188  | 225668   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.057 | 240  | 167350   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.533 | 264  | 130180   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.504  | 112  | 87066    | 15.042 | ng    | 0.00     |
| 7) Phenol-d6                | 6.510  | 99   | 106938   | 14.298 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.451  | 82   | 65044    | 12.895 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.716 | 330  | 19464    | 15.758 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.251  | 172  | 111651   | 12.984 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.004 | 244  | 122676   | 12.163 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 7.863  | 122  | 6483     | 10.239 | ng    | 96       |
| 71) Phenanthrene            | 11.445 | 178  | 230233   | 20.072 | ng    | 99       |
| 72) Anthracene              | 11.492 | 178  | 32185    | 2.869  | ng    | 99       |
| 73) Carbazole               | 11.645 | 167  | 31944    | 3.050  | ng    | 98       |
| 75) Fluoranthene            | 12.633 | 202  | 633164   | 51.718 | ng    | 99       |
| 78) Pyrene                  | 12.863 | 202  | 496234   | 35.533 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.045 | 228  | 200654   | 18.240 | ng    | 97       |
| 83) Chrysene                | 14.080 | 228  | 233964   | 23.464 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.015 | 276  | 118437   | 15.545 | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 15.104 | 252  | 292464m  | 34.461 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.121 | 252  | 87946m   | 12.442 | ng    |          |
| 90) Benzo(a)pyrene          | 15.474 | 252  | 153494   | 22.889 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 17.027 | 278  | 26217m   | 4.192  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.468 | 276  | 113119   | 17.704 | ng    | 97       |
| -----                       |        |      |          |        |       |          |

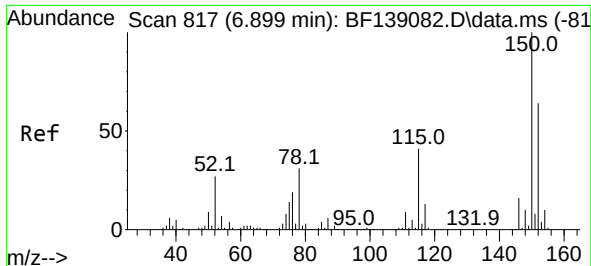
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF082224\  
Data File : BF139133.D  
Acq On : 22 Aug 2024 20:20  
Operator : RC/JU  
Sample : P3641-05 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0-0.5-081524

Quant Time: Aug 23 00:36:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF082024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 21 01:25:05 2024  
Response via : Initial Calibration

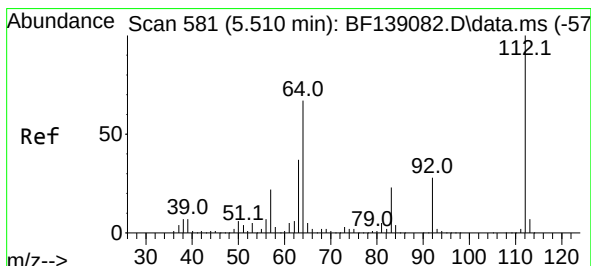
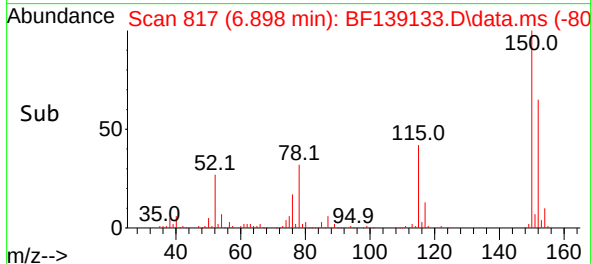
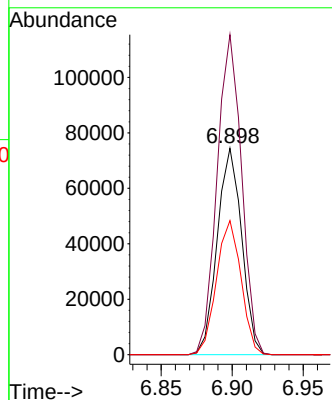
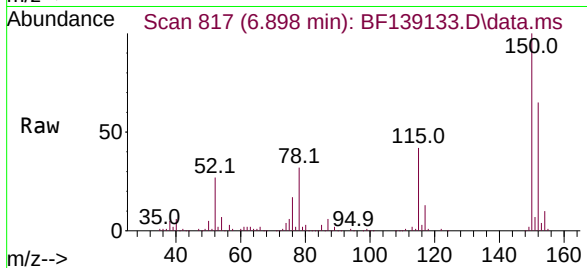




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.898 min Scan# 81  
 Delta R.T. -0.001 min  
 Lab File: BF139133.D  
 Acq: 22 Aug 2024 20:20

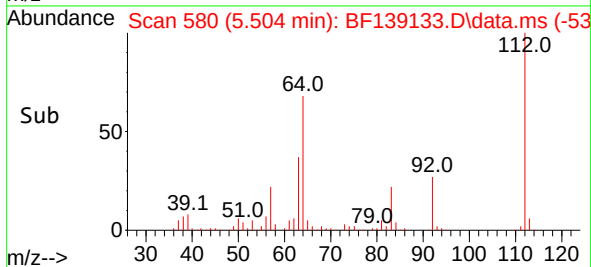
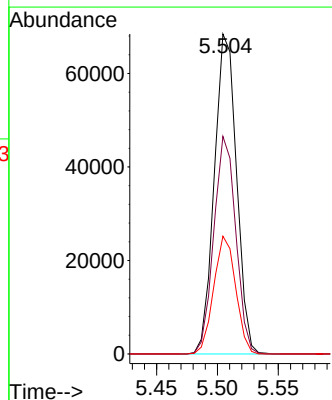
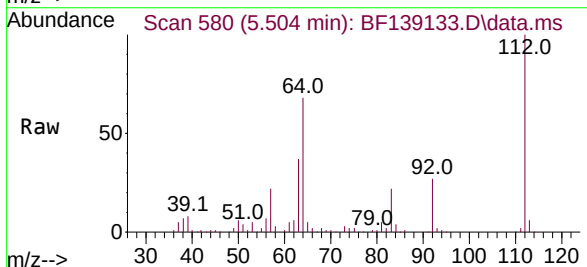
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-909-K1-0-0.5-081524

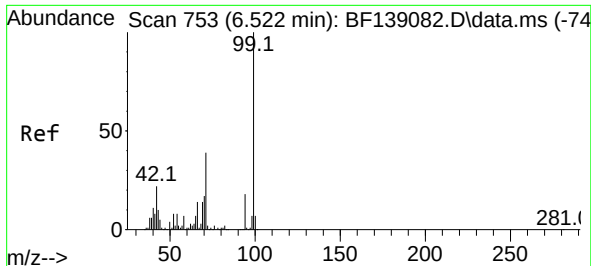
Tgt Ion:152 Resp: 89053  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 125.1 187.7  
 115 64.9 51.8 77.6



#5  
 2-Fluorophenol  
 Concen: 15.042 ng  
 RT: 5.504 min Scan# 580  
 Delta R.T. -0.006 min  
 Lab File: BF139133.D  
 Acq: 22 Aug 2024 20:20

Tgt Ion:112 Resp: 87066  
 Ion Ratio Lower Upper  
 112 100  
 64 68.0 53.8 80.6  
 63 36.8 29.4 44.2





#7

Phenol-d6

Concen: 14.298 ng

RT: 6.510 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF139133.D

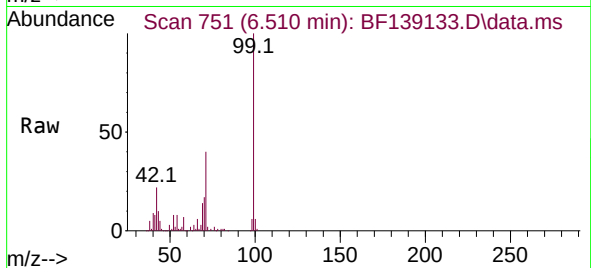
Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524



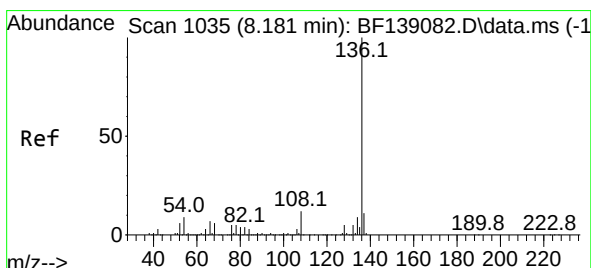
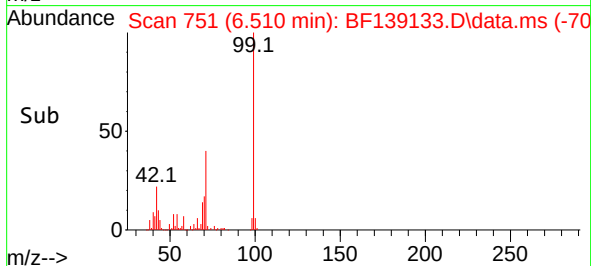
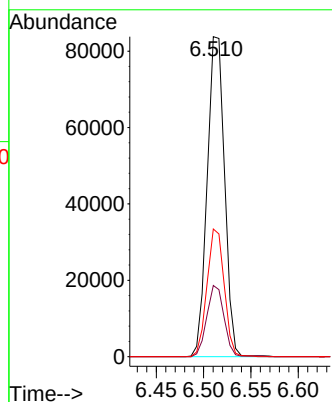
Tgt Ion: 99 Resp: 106938

Ion Ratio Lower Upper

99 100

42 22.2 17.4 26.2

71 39.9 31.2 46.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1035

Delta R.T. -0.000 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Tgt Ion: 136 Resp: 293932

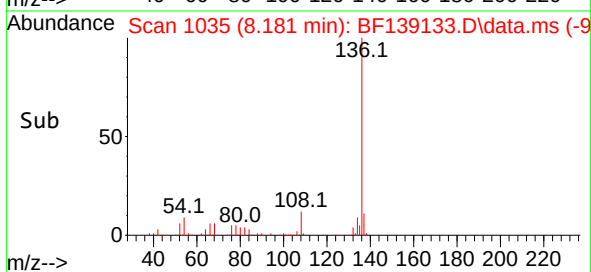
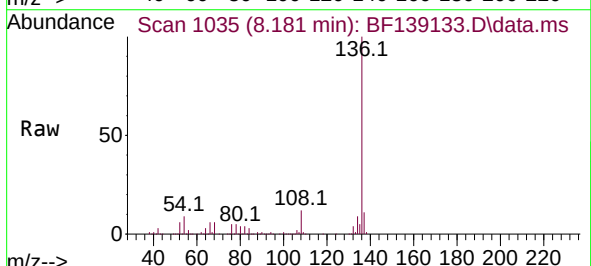
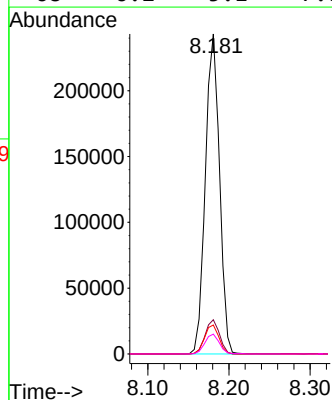
Ion Ratio Lower Upper

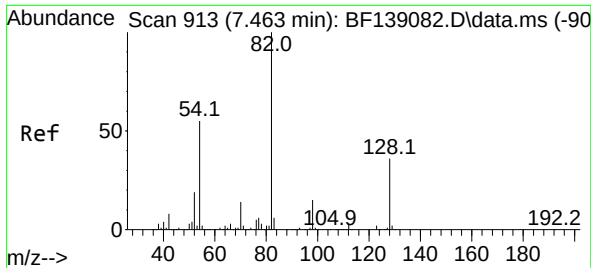
136 100

137 10.7 8.7 13.1

54 9.0 7.6 11.4

68 6.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 12.895 ng

RT: 7.451 min Scan# 91

Delta R.T. -0.012 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

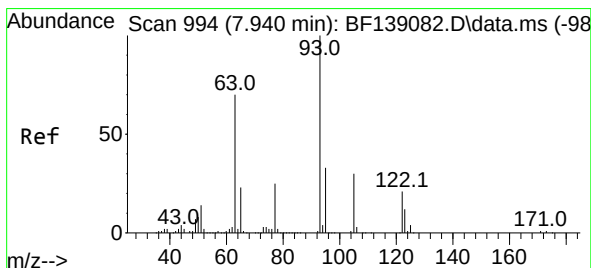
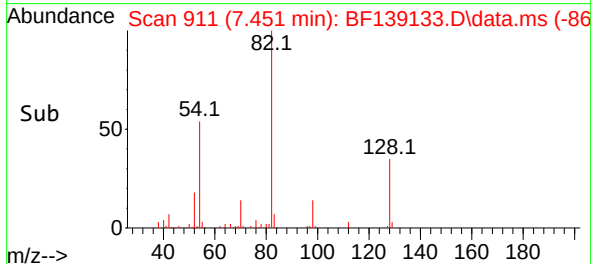
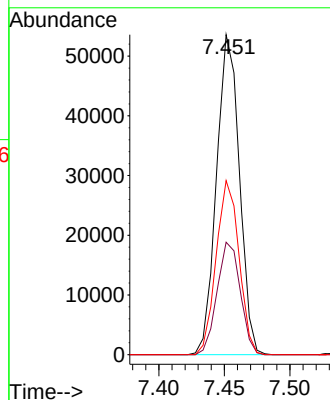
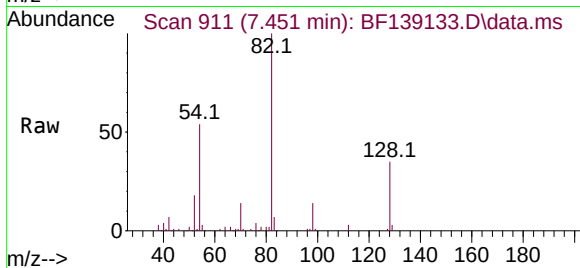
Tgt Ion: 82 Resp: 65044

Ion Ratio Lower Upper

82 100

128 35.2 29.0 43.4

54 54.4 43.4 65.2



#32

Benzoic acid

Concen: 10.239 ng

RT: 7.863 min Scan# 981

Delta R.T. -0.077 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

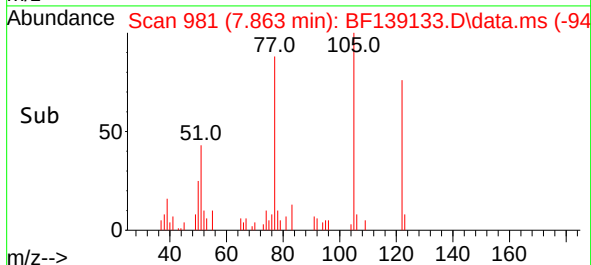
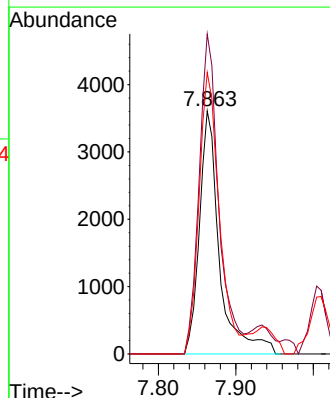
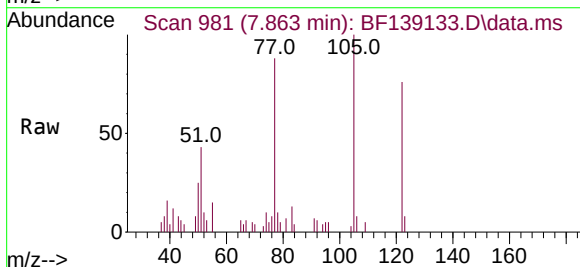
Tgt Ion: 122 Resp: 6483

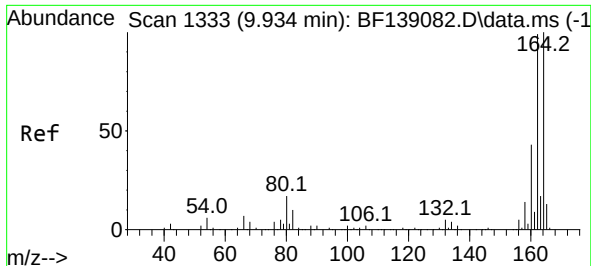
Ion Ratio Lower Upper

122 100

105 131.6 119.6 159.6

77 115.8 97.6 137.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF139133.D

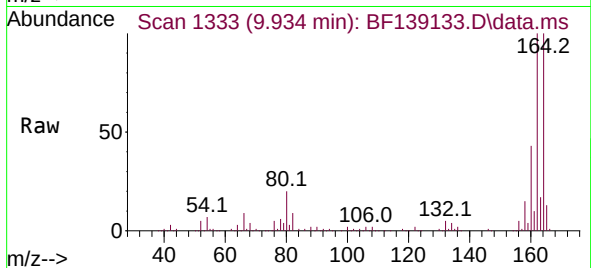
Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524



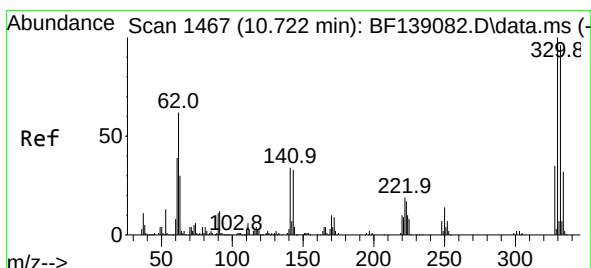
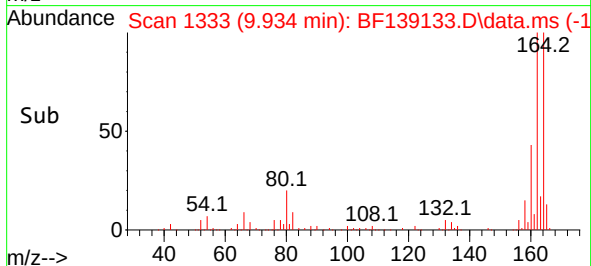
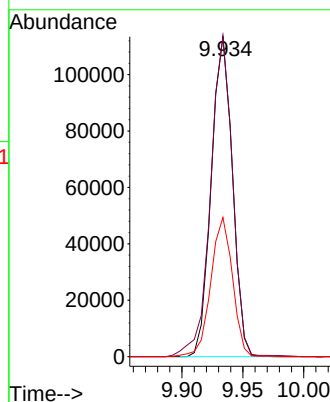
Tgt Ion:164 Resp: 136439

Ion Ratio Lower Upper

164 100

162 100.0 79.5 119.3

160 43.5 34.5 51.7



#42

2,4,6-Tribromophenol

Concen: 15.758 ng

RT: 10.716 min Scan# 1466

Delta R.T. -0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

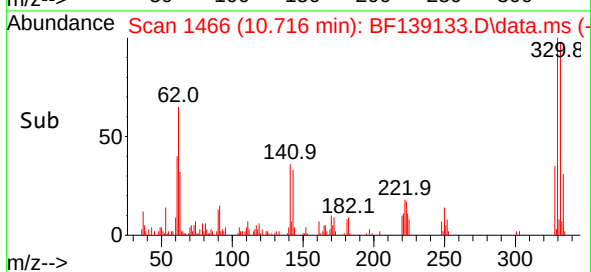
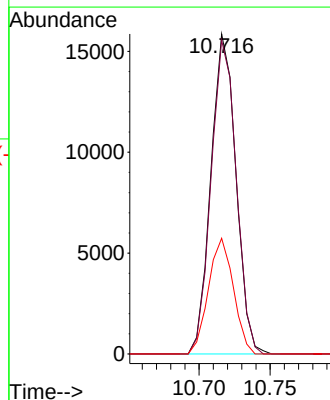
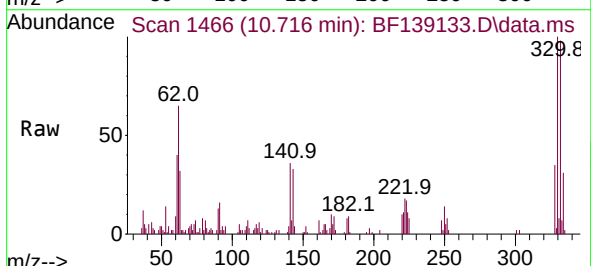
Tgt Ion:330 Resp: 19464

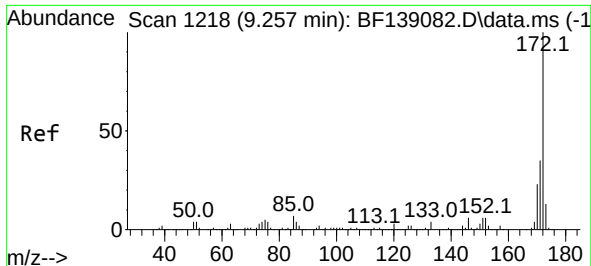
Ion Ratio Lower Upper

330 100

332 98.2 77.0 115.6

141 36.1 27.5 41.3

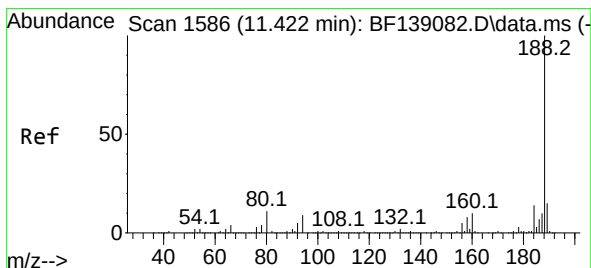
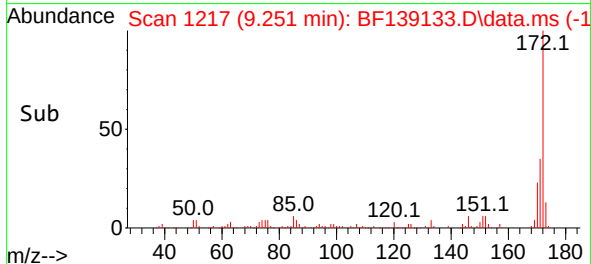
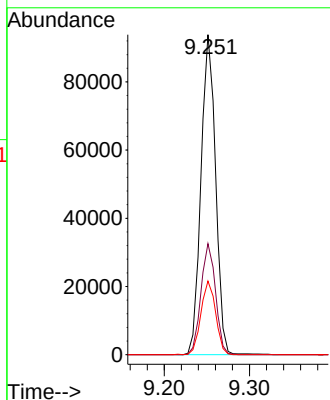
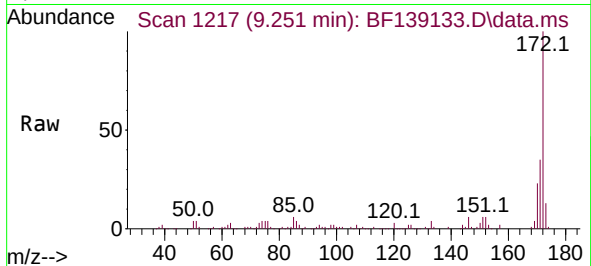




#45  
2-Fluorobiphenyl  
Concen: 12.984 ng  
RT: 9.251 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

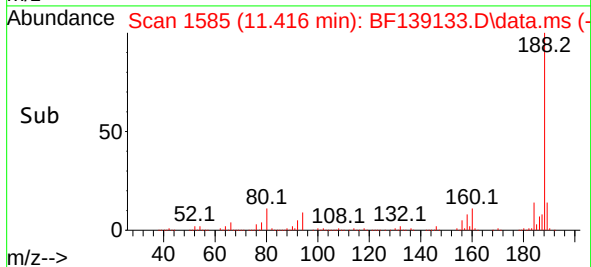
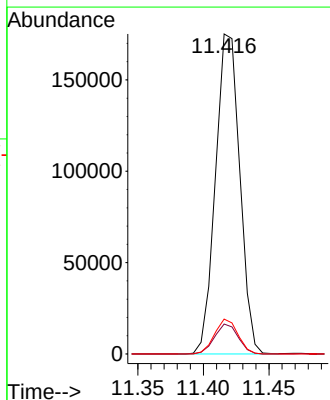
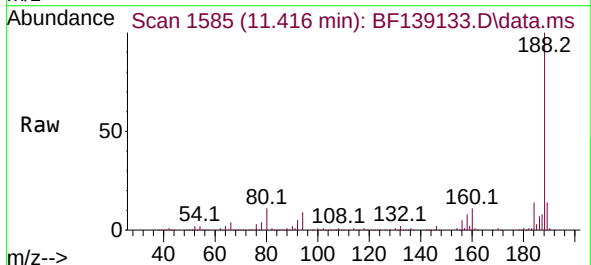
Instrument :  
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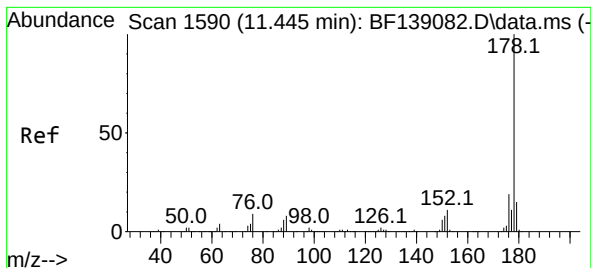
Tgt Ion:172 Resp: 111651  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.4 42.6  
170 23.0 18.8 28.2



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1585  
Delta R.T. -0.006 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

Tgt Ion:188 Resp: 225668  
Ion Ratio Lower Upper  
188 100  
94 9.3 7.2 10.8  
80 10.9 8.5 12.7





#71

Phenanthrene

Concen: 20.072 ng

RT: 11.445 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

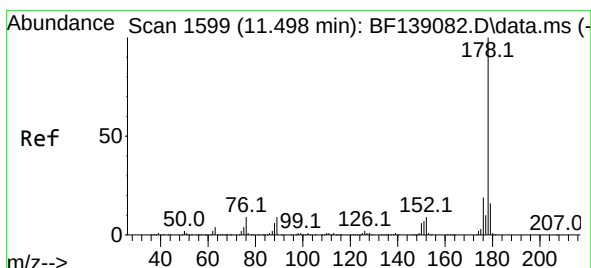
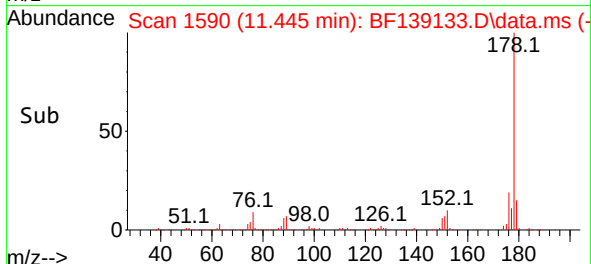
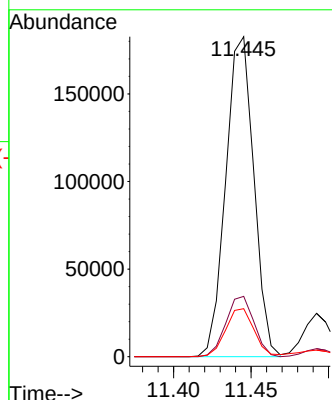
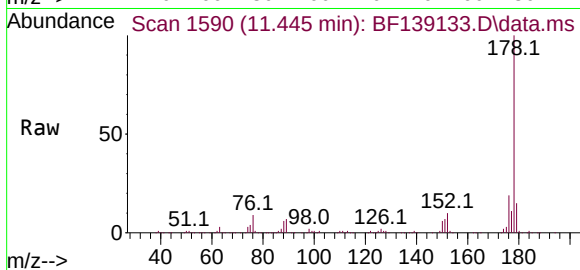
Tgt Ion:178 Resp: 230233

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

179 15.0 12.3 18.5



#72

Anthracene

Concen: 2.869 ng

RT: 11.492 min Scan# 1598

Delta R.T. -0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

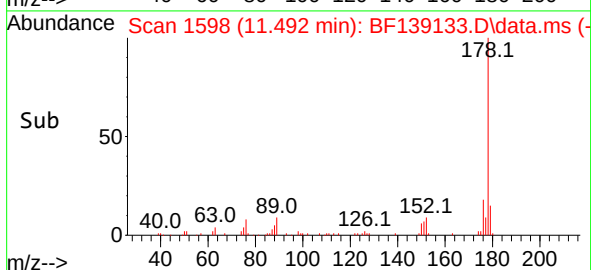
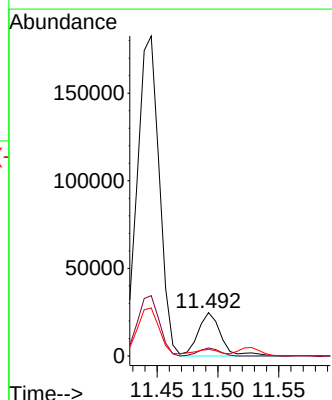
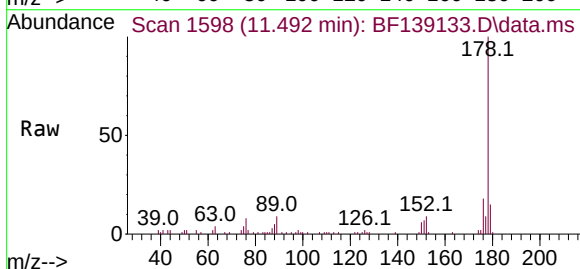
Tgt Ion:178 Resp: 32185

Ion Ratio Lower Upper

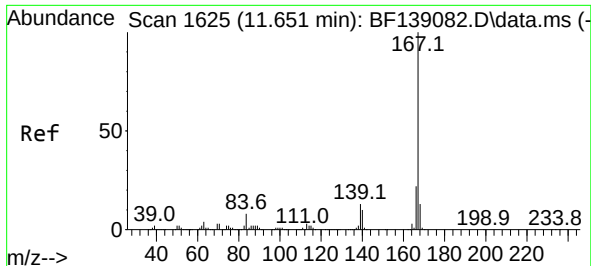
178 100

176 18.4 15.0 22.4

179 15.3 12.4 18.6



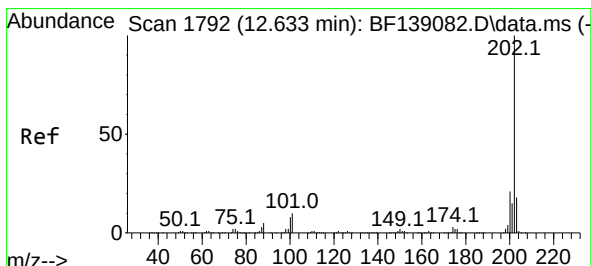
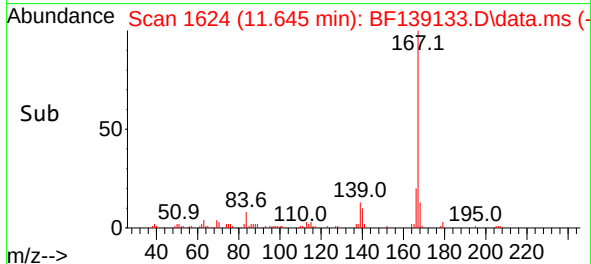
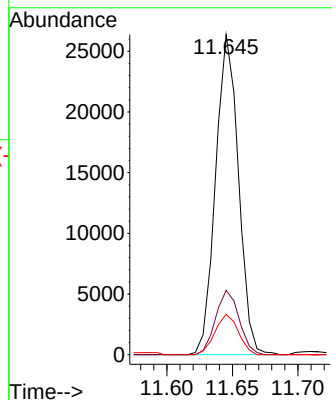
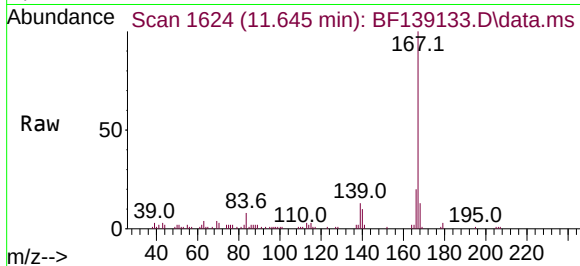




#73  
Carbazole  
Concen: 3.050 ng  
RT: 11.645 min Scan# 1624  
Delta R.T. -0.006 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

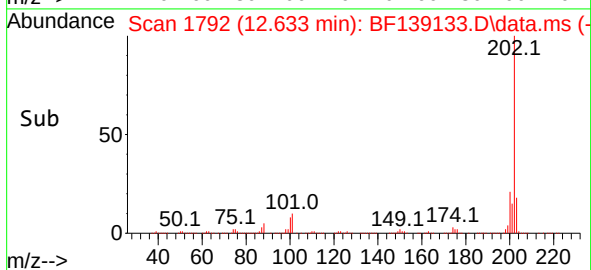
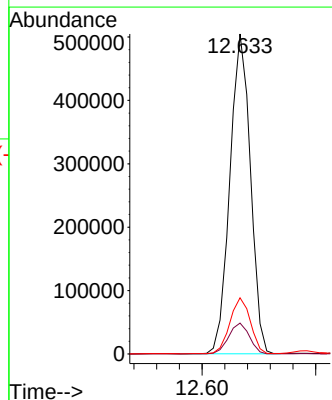
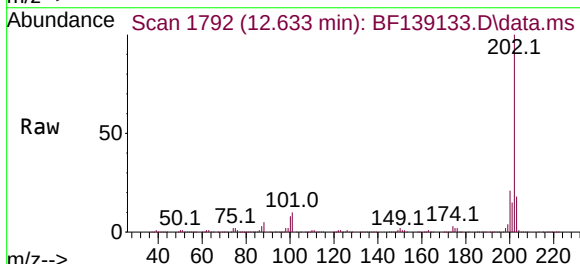
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0-0.5-081524

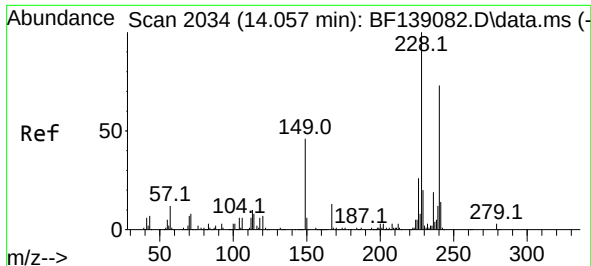
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.1  | 17.3  | 25.9  |
| 139     | 12.6  | 10.5  | 15.7  |



#75  
Fluoranthene  
Concen: 51.718 ng  
RT: 12.633 min Scan# 1792  
Delta R.T. -0.000 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.7   | 0.0   | 30.2  |
| 203     | 17.5  | 0.0   | 37.6  |

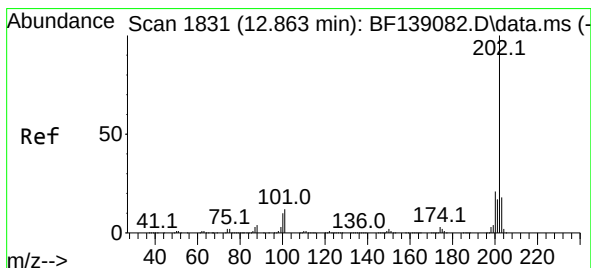
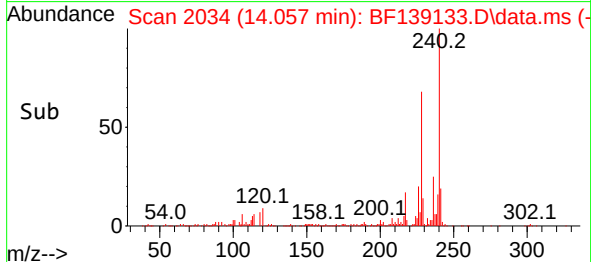
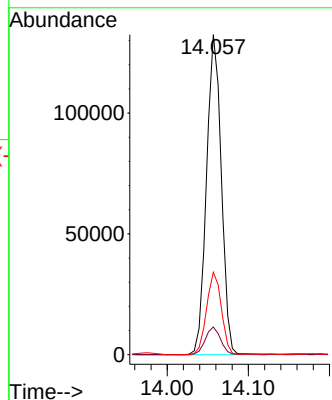
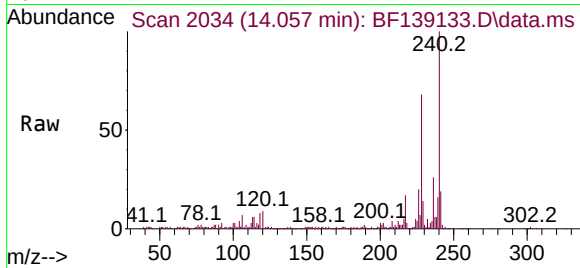




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.057 min Scan# 2034  
Delta R.T. -0.000 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

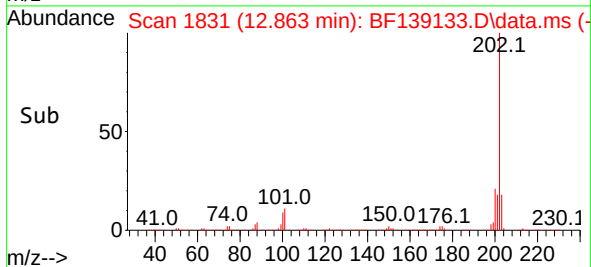
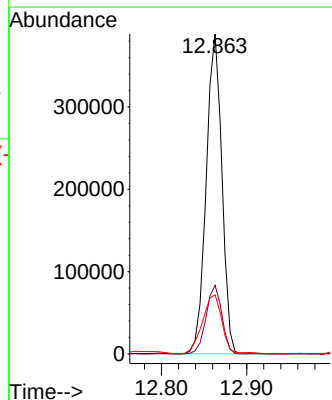
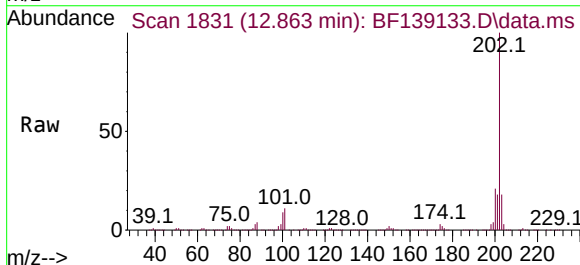
Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0-0.5-081524

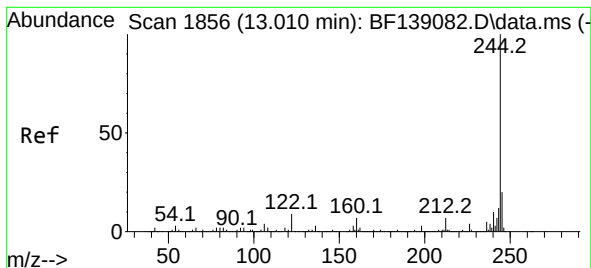
Tgt Ion:240 Resp: 167350  
Ion Ratio Lower Upper  
240 100  
120 8.7 7.8 11.6  
236 25.7 20.9 31.3



#78  
Pyrene  
Concen: 35.533 ng  
RT: 12.863 min Scan# 1831  
Delta R.T. -0.000 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

Tgt Ion:202 Resp: 496234  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.0 25.6  
203 18.5 14.1 21.1





#79

Terphenyl-d14

Concen: 12.163 ng

RT: 13.004 min Scan# 1855

Delta R.T. -0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

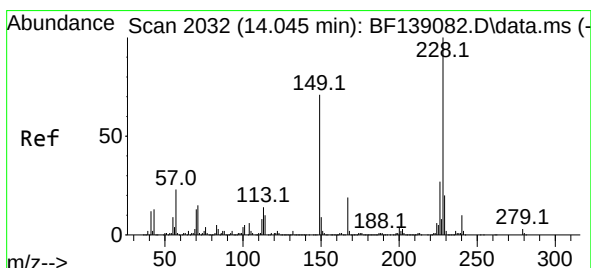
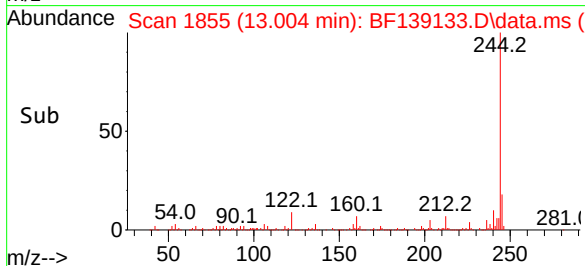
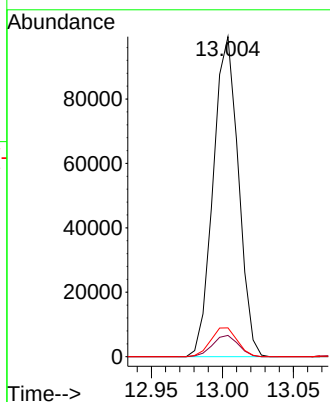
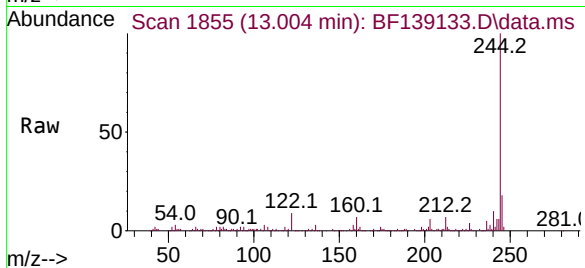
Tgt Ion:244 Resp: 122676

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

122 9.0 7.6 11.4



#81

Benzo(a)anthracene

Concen: 18.240 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

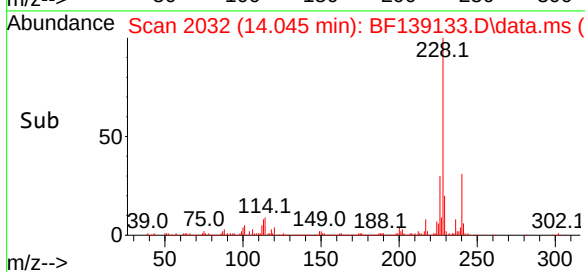
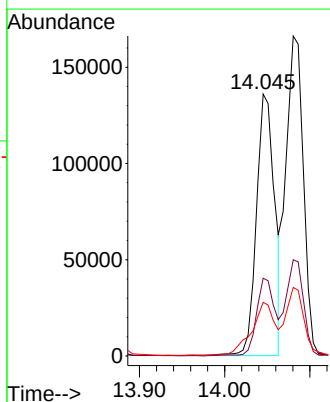
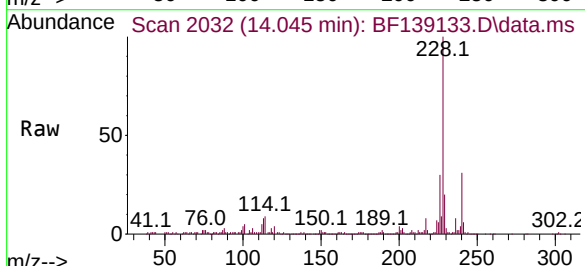
Tgt Ion:228 Resp: 200654

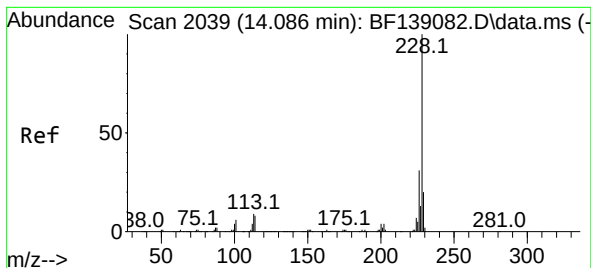
Ion Ratio Lower Upper

228 100

226 29.7 21.9 32.9

229 20.5 16.1 24.1





#83

Chrysene

Concen: 23.464 ng

RT: 14.080 min Scan# 2039

Delta R.T. -0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

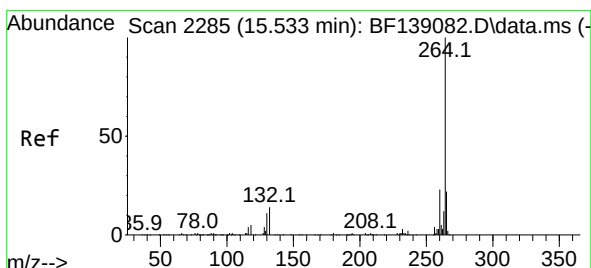
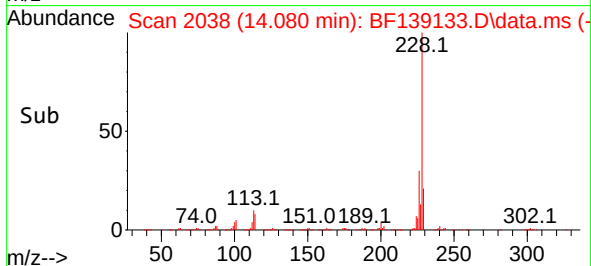
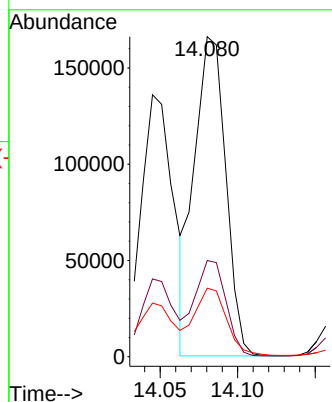
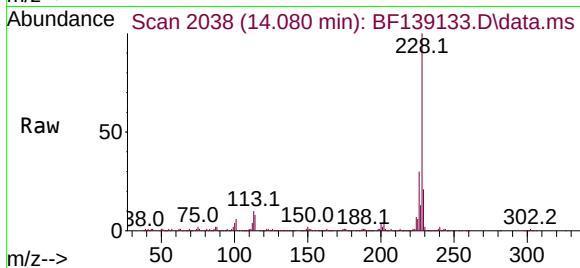
Tgt Ion:228 Resp: 233964

Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

229 21.4 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2285

Delta R.T. -0.000 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

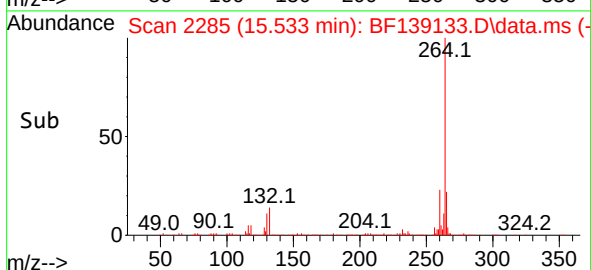
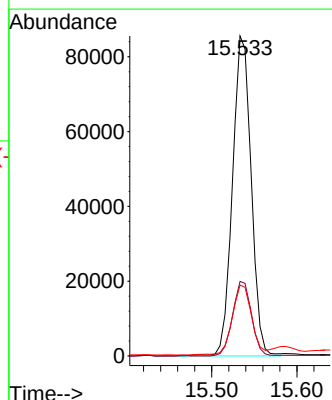
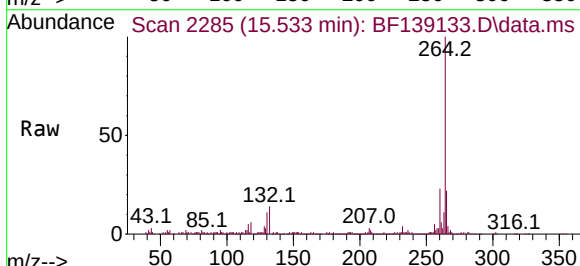
Tgt Ion:264 Resp: 130180

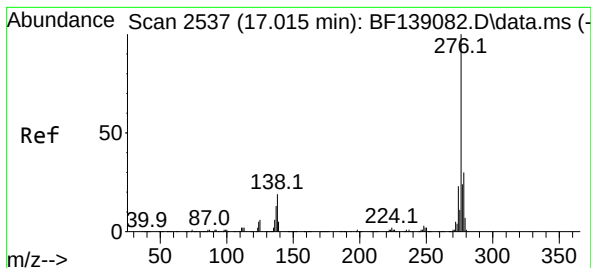
Ion Ratio Lower Upper

264 100

260 23.3 18.6 27.8

265 22.2 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.545 ng

RT: 17.015 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

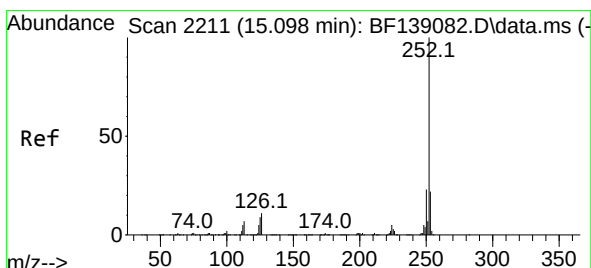
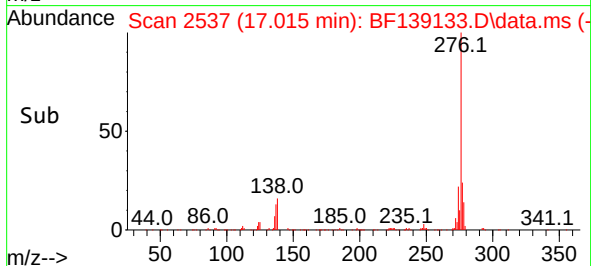
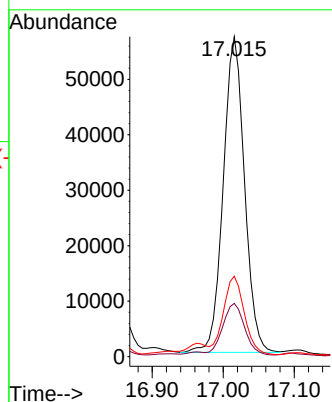
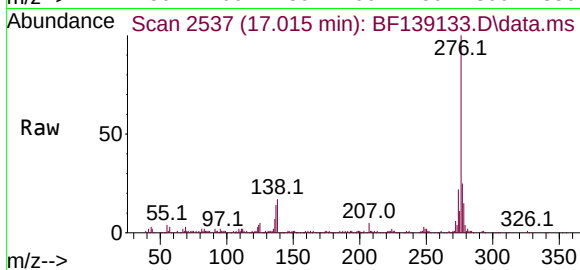
Tgt Ion:276 Resp: 118437

Ion Ratio Lower Upper

276 100

138 17.1 17.3 25.9#

277 24.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 34.461 ng m

RT: 15.104 min Scan# 2212

Delta R.T. 0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

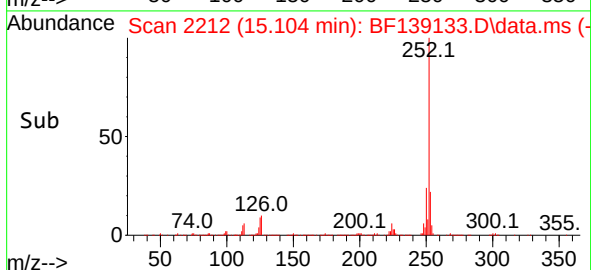
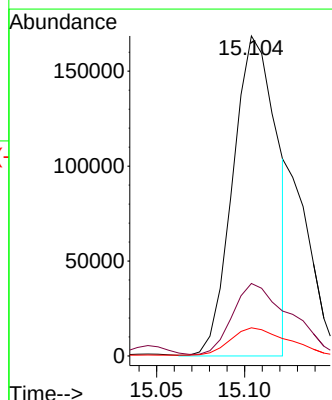
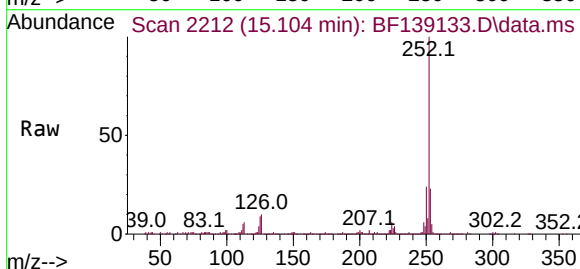
Tgt Ion:252 Resp: 292464

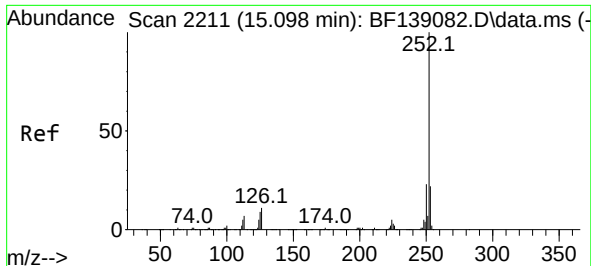
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

125 8.8 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 12.442 ng m

RT: 15.121 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

Instrument :

BNA\_F

ClientSampleId :

S-909-K1-0-0.5-081524

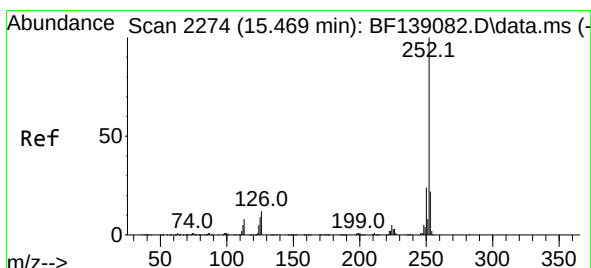
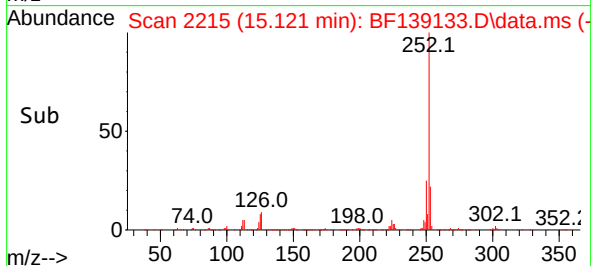
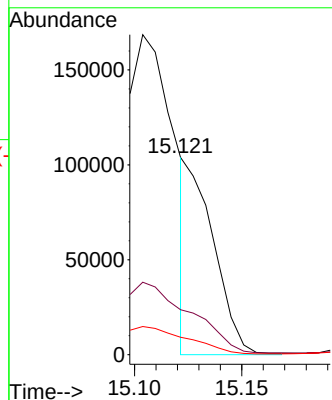
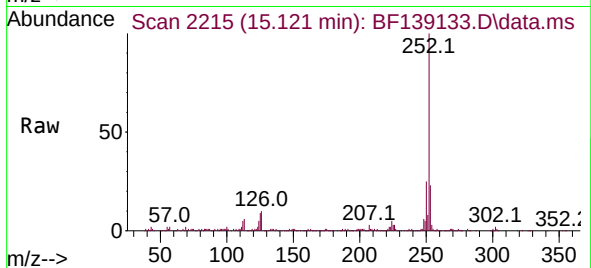
Tgt Ion:252 Resp: 87946

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

125 8.9 7.0 10.6



#90

Benzo(a)pyrene

Concen: 22.889 ng

RT: 15.474 min Scan# 2275

Delta R.T. 0.006 min

Lab File: BF139133.D

Acq: 22 Aug 2024 20:20

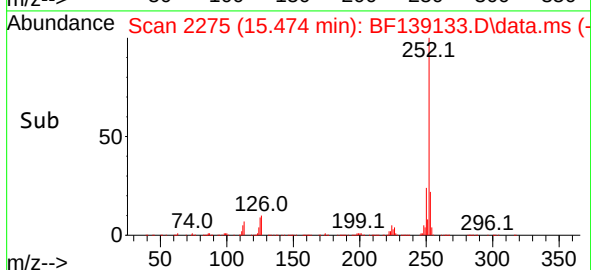
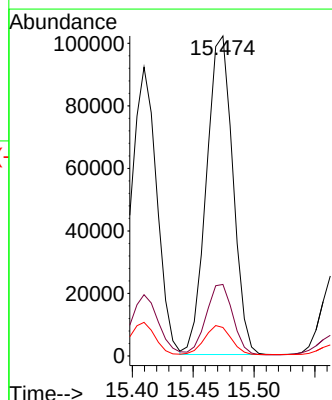
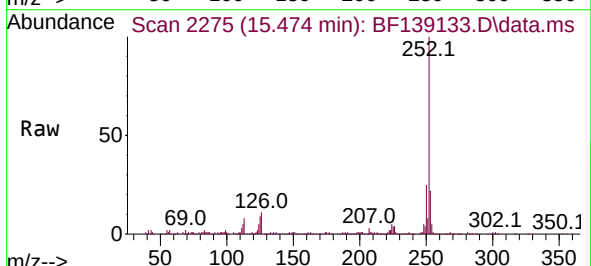
Tgt Ion:252 Resp: 153494

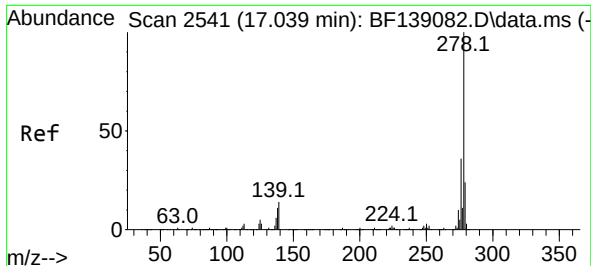
Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 8.9 7.4 11.2

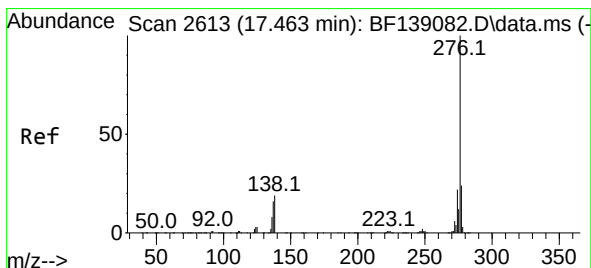
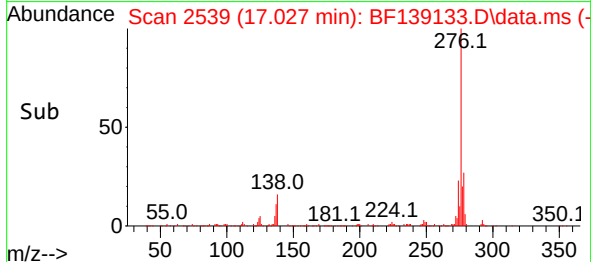
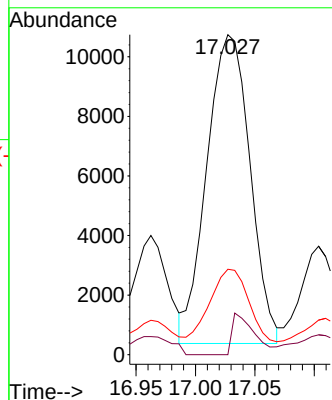
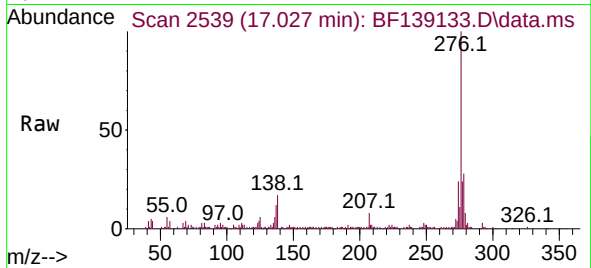




#91  
Dibenzo(a,h)anthracene  
Concen: 4.192 ng m  
RT: 17.027 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

Instrument :  
BNA\_F  
ClientSampleId :  
S-909-K1-0-0.5-081524

Tgt Ion:278 Resp: 26217  
Ion Ratio Lower Upper  
278 100  
139 0.0 10.8 16.2#  
279 26.7 19.2 28.8



#92  
Benzo(g,h,i)perylene  
Concen: 17.704 ng  
RT: 17.468 min Scan# 2614  
Delta R.T. 0.005 min  
Lab File: BF139133.D  
Acq: 22 Aug 2024 20:20

Tgt Ion:276 Resp: 113119  
Ion Ratio Lower Upper  
276 100  
277 25.0 18.8 28.2  
138 17.6 15.0 22.4

