

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101124\  
 Data File : BF139783.D  
 Acq On : 11 Oct 2024 19:08  
 Operator : RC/JU  
 Sample : P4377-01 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-100924

Quant Time: Oct 12 02:01:45 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 02 04:58:47 2024  
 Response via : Initial Calibration

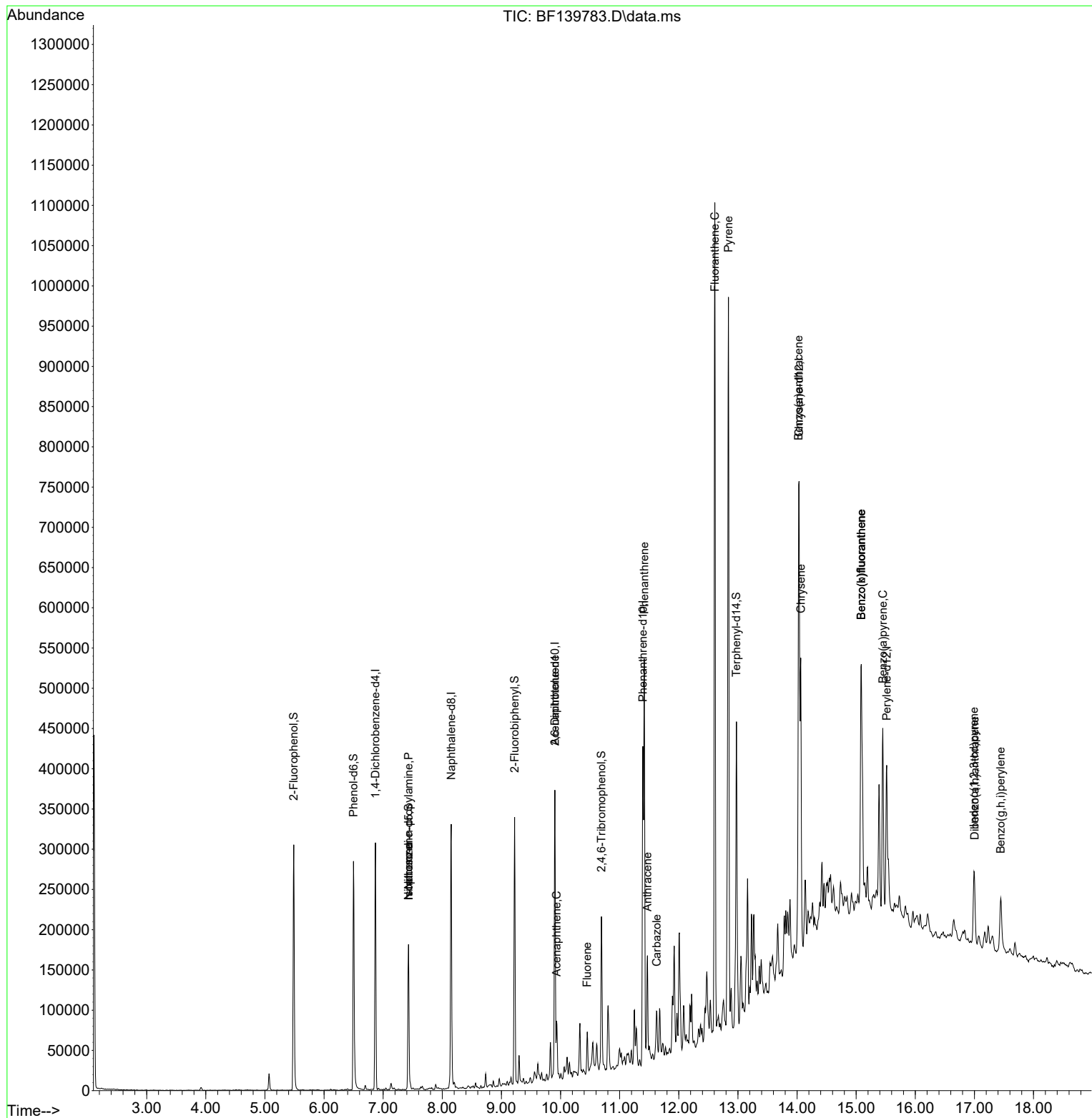
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 62245    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 203698   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.904  | 164  | 101884   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.392 | 188  | 199392   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.033 | 240  | 126817   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.516 | 264  | 98730    | 20.000 | ng    | 0.01     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 110967   | 30.899 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 137190   | 28.407 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.428  | 82   | 76344    | 18.976 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 27010    | 27.462 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 143355   | 21.601 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.975 | 244  | 173629   | 22.465 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.428  | 70   | 10381    | 3.343  | ng    | # 75     |
| 25) Isophorone                | 7.428  | 82   | 74010    | 10.357 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene        | 9.904  | 165  | 13732    | 9.115  | ng    | # 18     |
| 52) Acenaphthene              | 9.934  | 154  | 20146    | 3.397  | ng    | 95       |
| 58) Fluorene                  | 10.451 | 166  | 19632    | 2.968  | ng    | 95       |
| 71) Phenanthrene              | 11.416 | 178  | 251247   | 26.724 | ng    | 99       |
| 72) Anthracene                | 11.469 | 178  | 73013    | 7.850  | ng    | 99       |
| 73) Carbazole                 | 11.628 | 167  | 29694    | 3.324  | ng    | 99       |
| 75) Fluoranthene              | 12.610 | 202  | 579908   | 56.427 | ng    | 100      |
| 78) Pyrene                    | 12.839 | 202  | 516039   | 45.496 | ng    | 98       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 238978   | 28.662 | ng    | 97       |
| 83) Chrysene                  | 14.063 | 228  | 181714   | 23.838 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.992 | 276  | 72232    | 12.430 | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.086 | 252  | 264559   | 41.443 | ng    | 96       |
| 89) Benzo(k)fluoranthene      | 15.086 | 252  | 264559   | 48.856 | ng    | 96       |
| 90) Benzo(a)pyrene            | 15.451 | 252  | 137948   | 27.406 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.004 | 278  | 17896    | 3.713  | ng    | # 78     |
| 92) Benzo(g,h,i)perylene      | 17.445 | 276  | 68123    | 14.093 | ng    | 97       |
| -----                         |        |      |          |        |       |          |

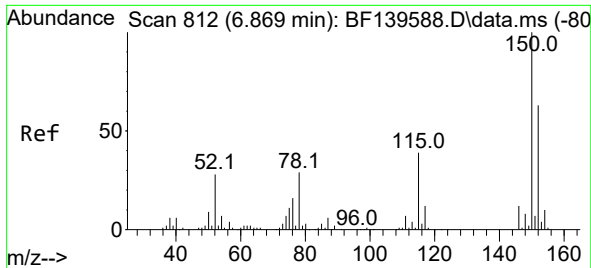
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101124\  
Data File : BF139783.D  
Acq On : 11 Oct 2024 19:08  
Operator : RC/JU  
Sample : P4377-01 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

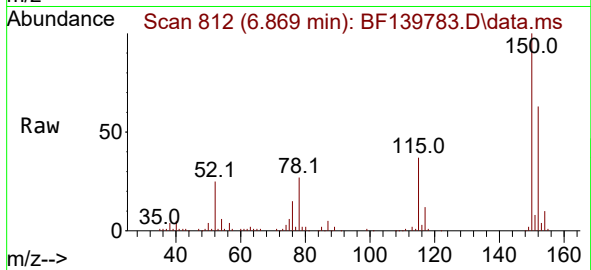
Quant Time: Oct 12 02:01:45 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF100124.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 02 04:58:47 2024  
Response via : Initial Calibration



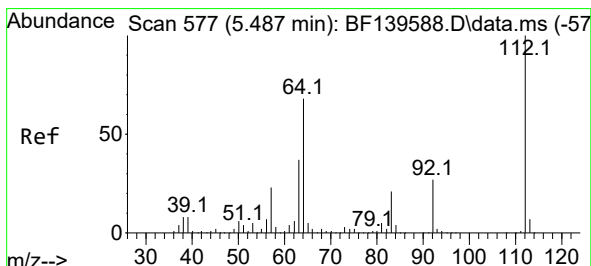
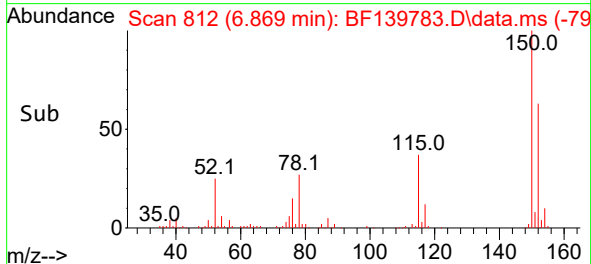
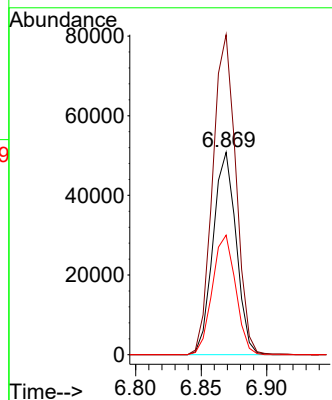


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 812  
Delta R.T. 0.000 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

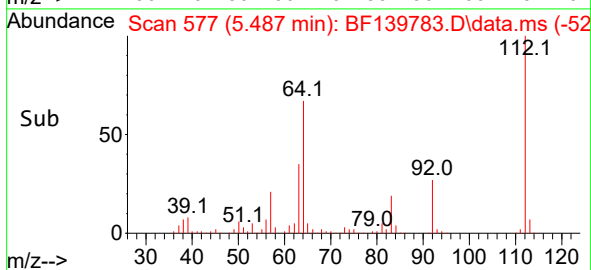
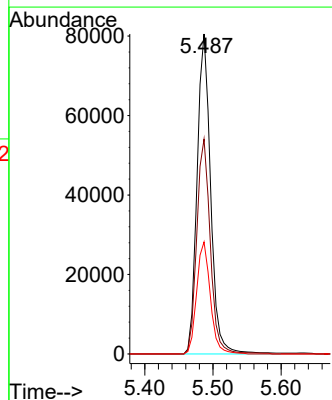
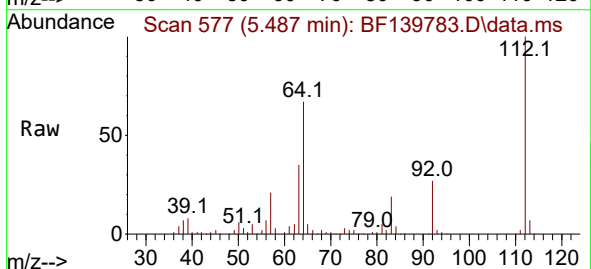


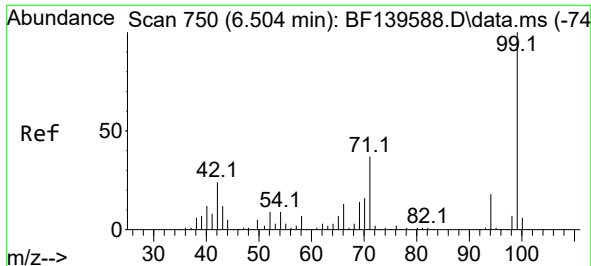
Tgt Ion:152 Resp: 62245  
Ion Ratio Lower Upper  
152 100  
150 158.0 127.2 190.8  
115 59.1 49.0 73.4



#5  
2-Fluorophenol  
Concen: 30.899 ng  
RT: 5.487 min Scan# 577  
Delta R.T. -0.000 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion:112 Resp: 110967  
Ion Ratio Lower Upper  
112 100  
64 67.1 54.2 81.4  
63 35.0 29.4 44.2

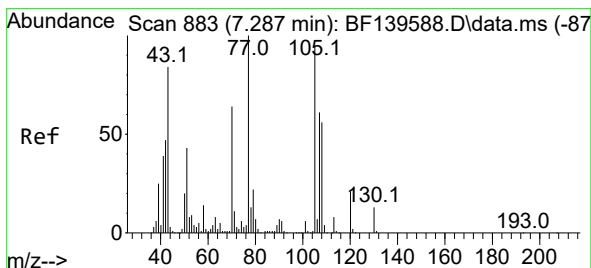
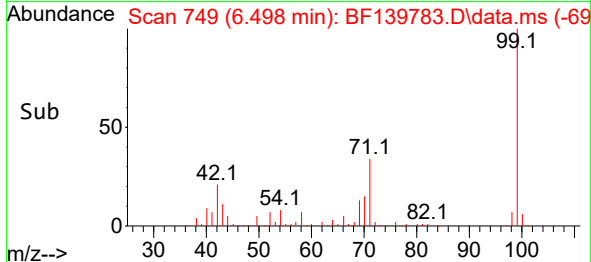
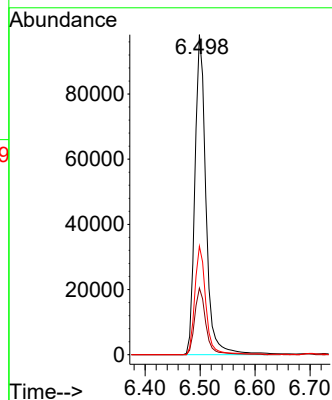
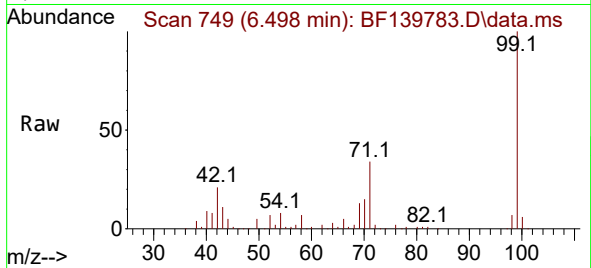




#7  
Phenol-d6  
Concen: 28.407 ng  
RT: 6.498 min Scan# 74  
Delta R.T. -0.006 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

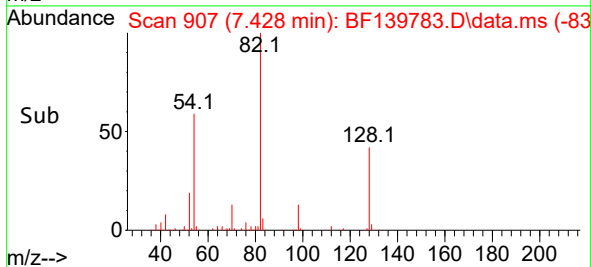
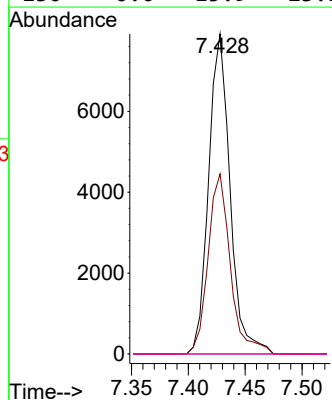
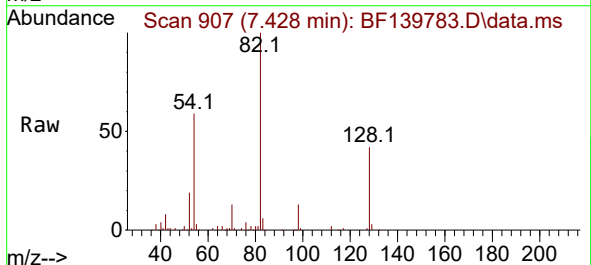
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

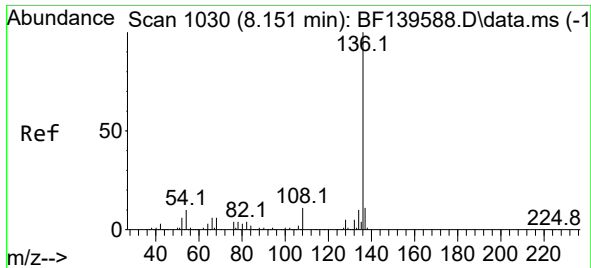
Tgt Ion: 99 Resp: 137190  
Ion Ratio Lower Upper  
99 100  
42 20.8 19.1 28.7  
71 33.9 29.7 44.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.343 ng  
RT: 7.428 min Scan# 907  
Delta R.T. 0.141 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion: 70 Resp: 10381  
Ion Ratio Lower Upper  
70 100  
42 56.3 58.0 87.0#  
101 0.0 7.8 11.8#  
130 0.0 15.9 23.9#



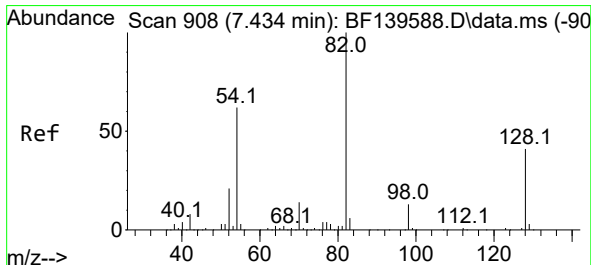
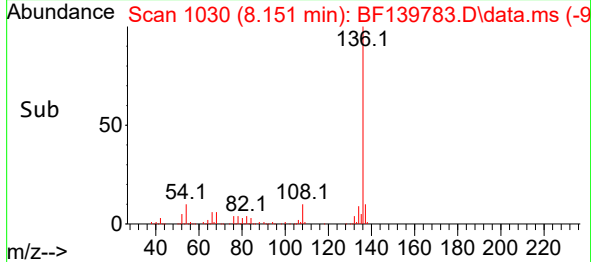
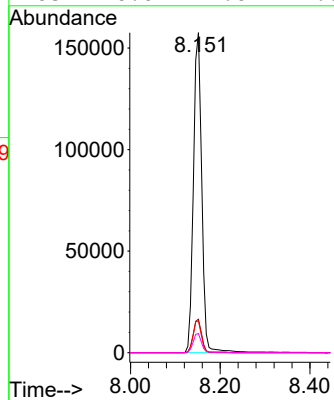
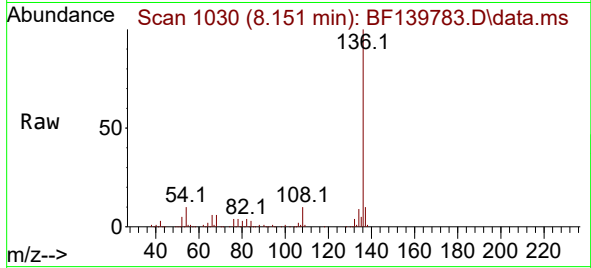


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

Tgt Ion:136 Resp: 203698

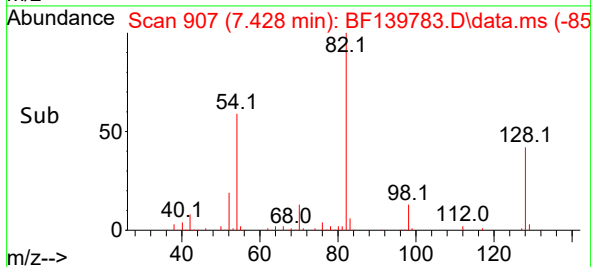
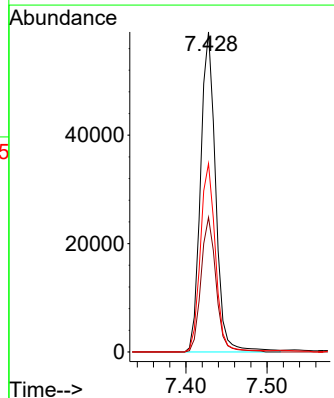
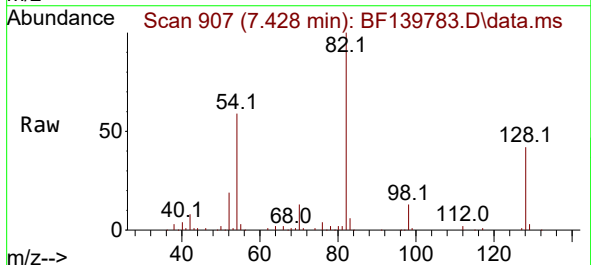
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.5  | 8.6   | 13.0  |
| 54  | 9.9   | 8.3   | 12.5  |
| 68  | 6.0   | 4.6   | 7.0   |

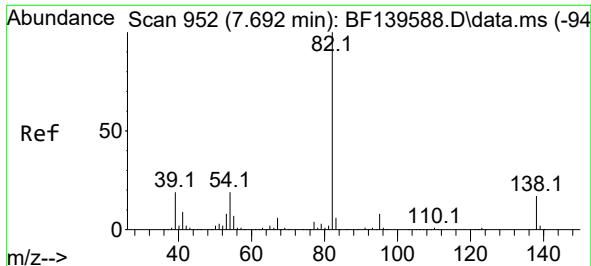


#23  
Nitrobenzene-d5  
Concen: 18.976 ng  
RT: 7.428 min Scan# 907  
Delta R.T. -0.006 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion: 82 Resp: 76344

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.1  | 32.4  | 48.6  |
| 54  | 58.8  | 49.1  | 73.7  |

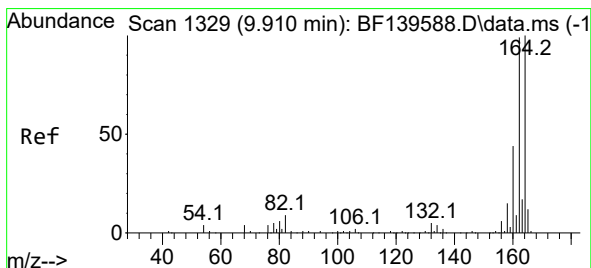
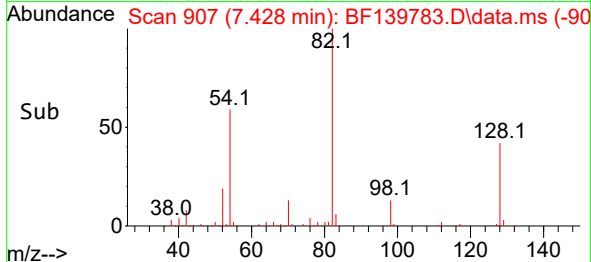
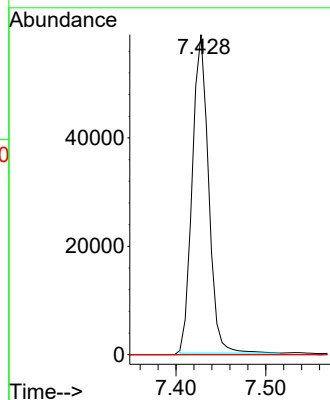
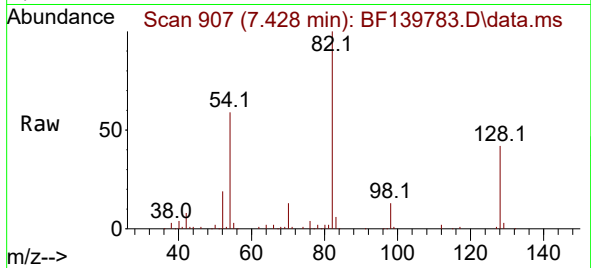




#25  
Isophorone  
Concen: 10.357 ng  
RT: 7.428 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

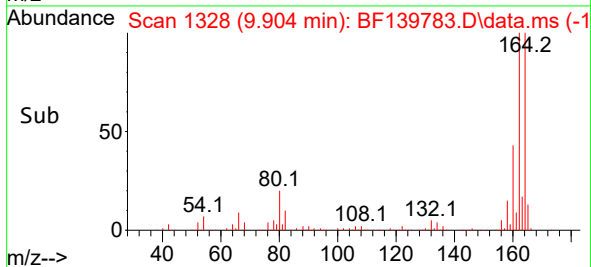
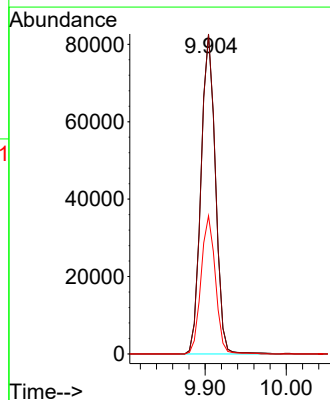
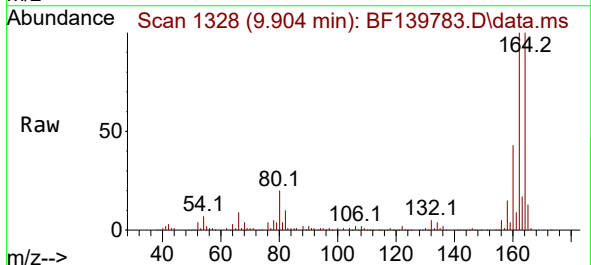
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

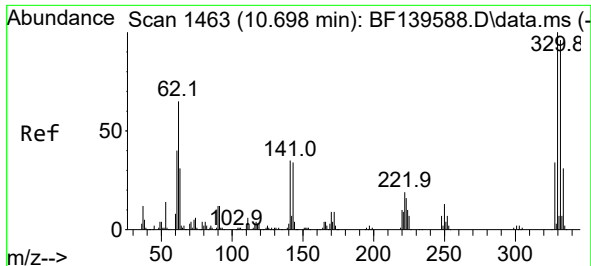
Tgt Ion: 82 Resp: 74010  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.1 9.1#  
138 0.0 13.4 20.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.904 min Scan# 1328  
Delta R.T. -0.006 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion:164 Resp: 101884  
Ion Ratio Lower Upper  
164 100  
162 100.1 79.4 119.0  
160 43.2 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 27.462 ng

RT: 10.692 min Scan# 1462

Delta R.T. -0.006 min

Lab File: BF139783.D

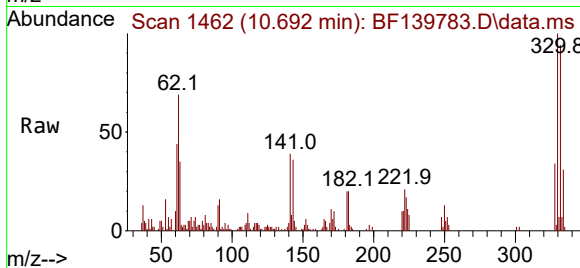
Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924



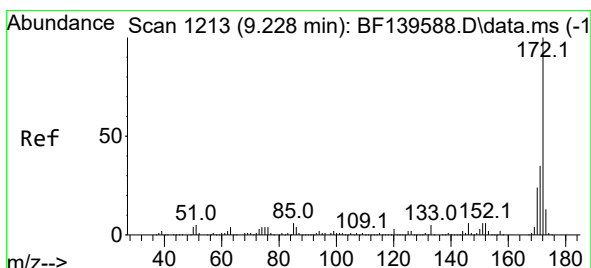
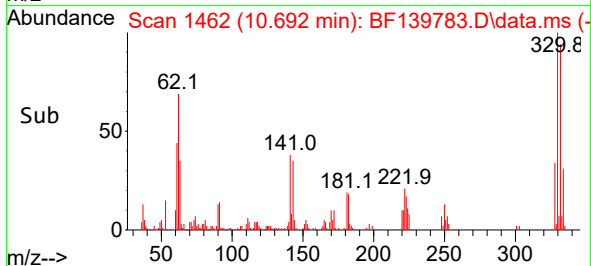
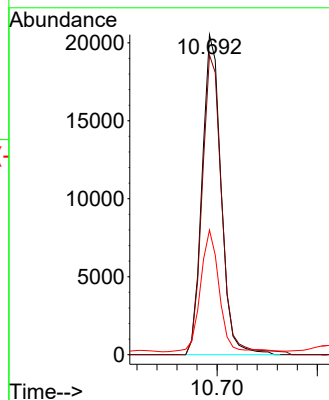
Tgt Ion:330 Resp: 27010

Ion Ratio Lower Upper

330 100

332 96.8 76.5 114.7

141 36.8 29.3 43.9



#45

2-Fluorobiphenyl

Concen: 21.601 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.006 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

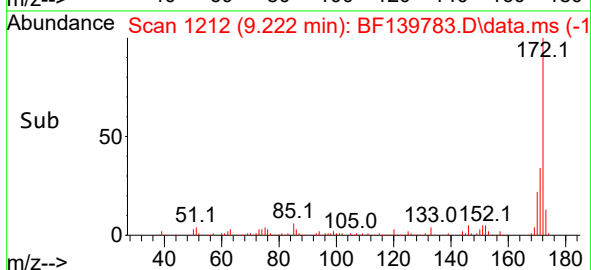
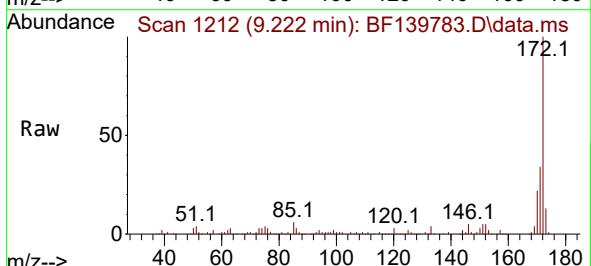
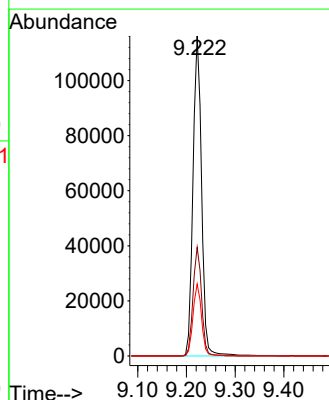
Tgt Ion:172 Resp: 143355

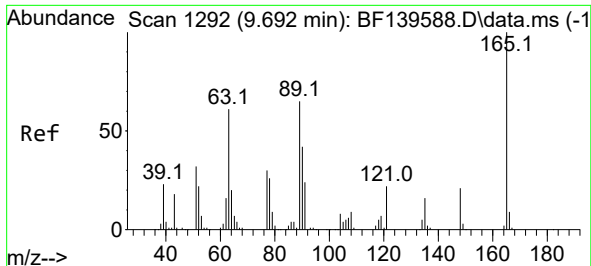
Ion Ratio Lower Upper

172 100

171 34.0 28.2 42.4

170 22.5 18.8 28.2

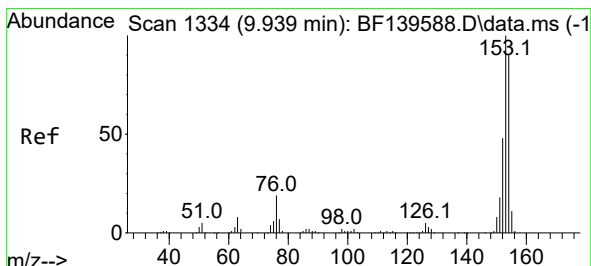
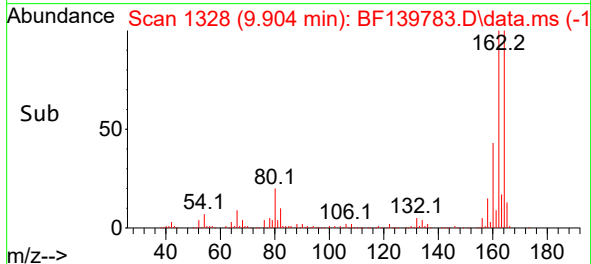
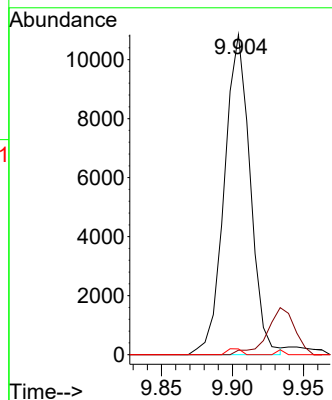
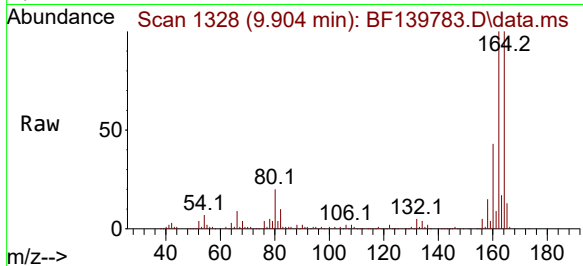




#51  
2,6-Dinitrotoluene  
Concen: 9.115 ng  
RT: 9.904 min Scan# 11  
Delta R.T. 0.212 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

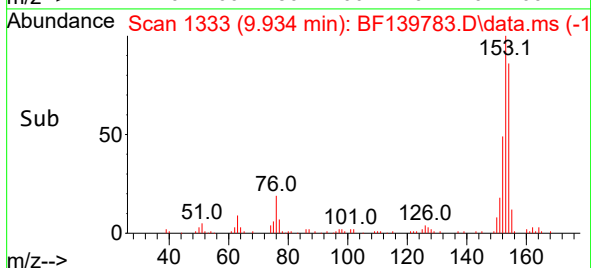
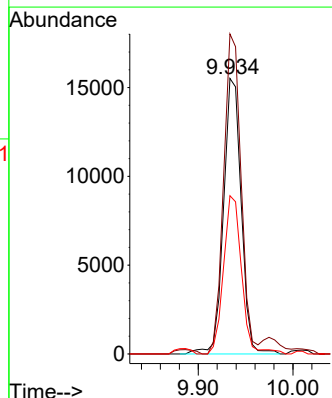
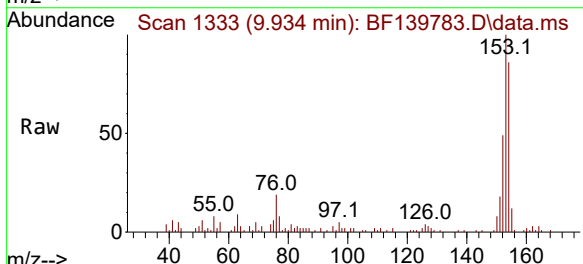
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

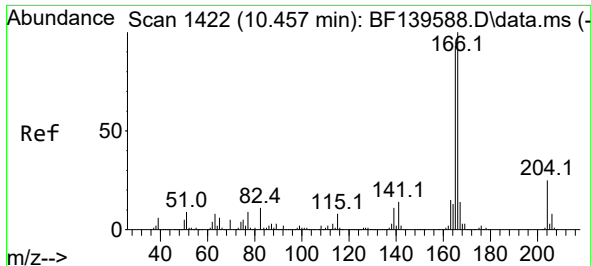
Tgt Ion:165 Resp: 13732  
Ion Ratio Lower Upper  
165 100  
63 1.4 56.7 85.1#  
89 1.8 51.6 77.4#



#52  
Acenaphthene  
Concen: 3.397 ng  
RT: 9.934 min Scan# 1333  
Delta R.T. -0.006 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion:154 Resp: 20146  
Ion Ratio Lower Upper  
154 100  
153 116.2 88.8 133.2  
152 57.5 42.5 63.7

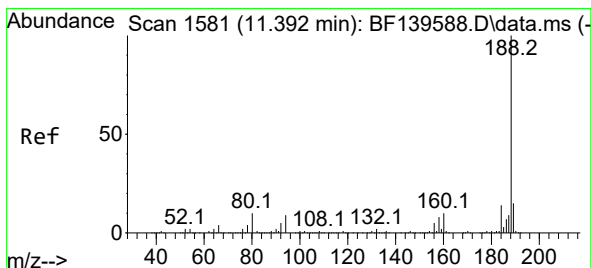
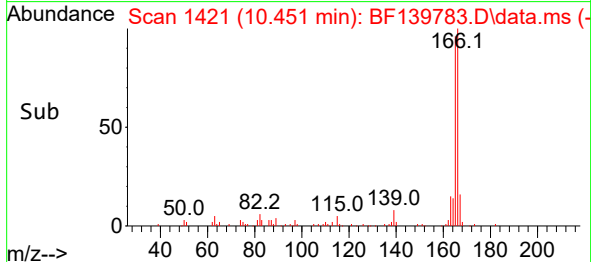
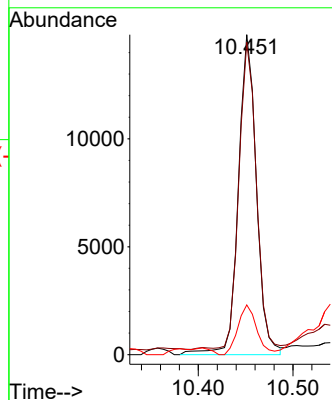
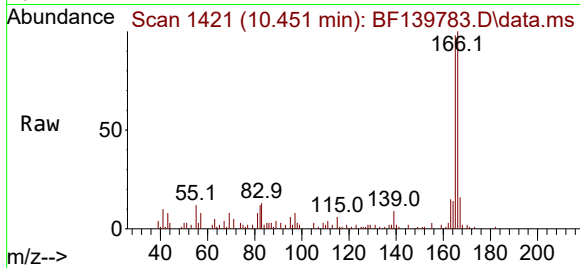




#58  
Fluorene  
Concen: 2.968 ng  
RT: 10.451 min Scan# 1421  
Delta R.T. -0.006 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

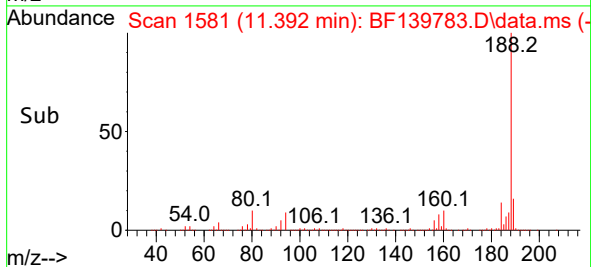
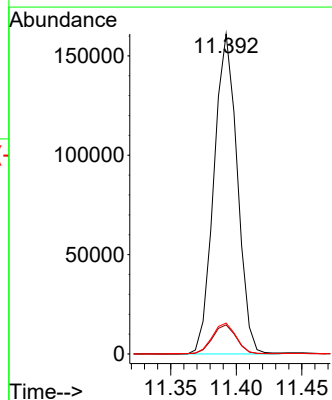
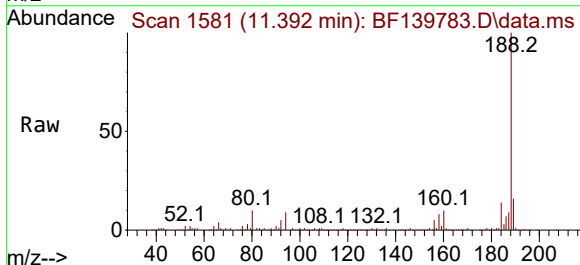
Instrument :  
BNA\_F  
ClientSampleId :  
HD-01-100924

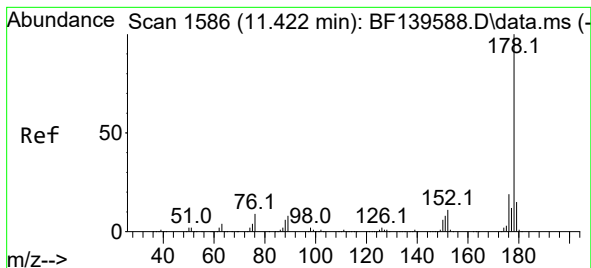
Tgt Ion:166 Resp: 19632  
Ion Ratio Lower Upper  
166 100  
165 97.6 74.4 111.6  
167 15.5 10.9 16.3



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.392 min Scan# 1581  
Delta R.T. 0.000 min  
Lab File: BF139783.D  
Acq: 11 Oct 2024 19:08

Tgt Ion:188 Resp: 199392  
Ion Ratio Lower Upper  
188 100  
94 9.1 7.4 11.2  
80 9.6 8.2 12.2





#71

Phenanthrene

Concen: 26.724 ng

RT: 11.416 min Scan# 1585

Delta R.T. -0.006 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

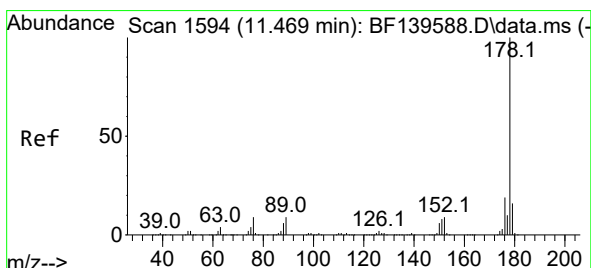
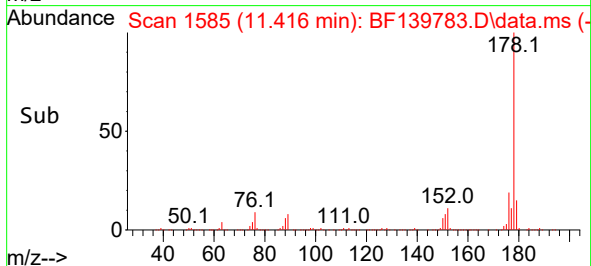
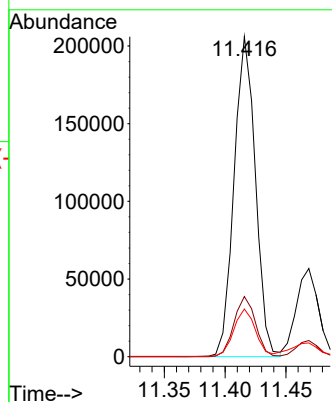
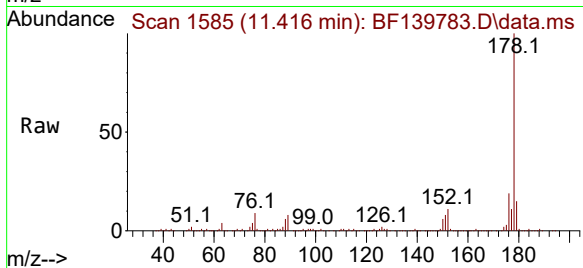
Tgt Ion:178 Resp: 251247

Ion Ratio Lower Upper

178 100

176 18.8 15.5 23.3

179 14.9 12.3 18.5



#72

Anthracene

Concen: 7.850 ng

RT: 11.469 min Scan# 1594

Delta R.T. 0.000 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

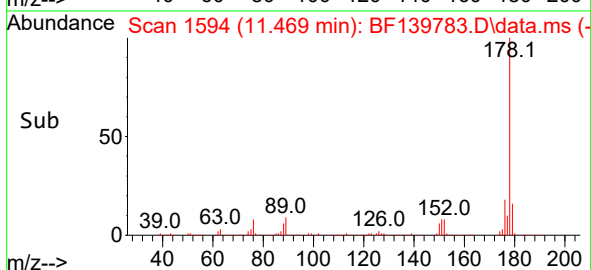
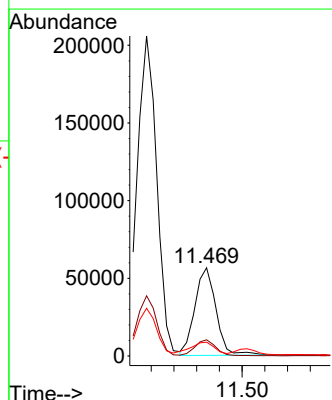
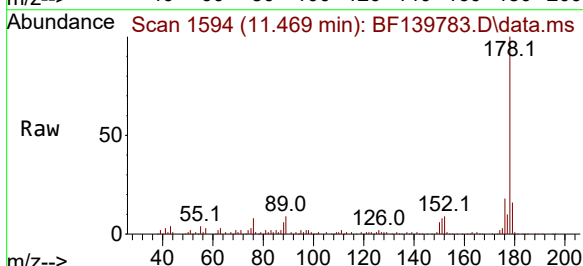
Tgt Ion:178 Resp: 73013

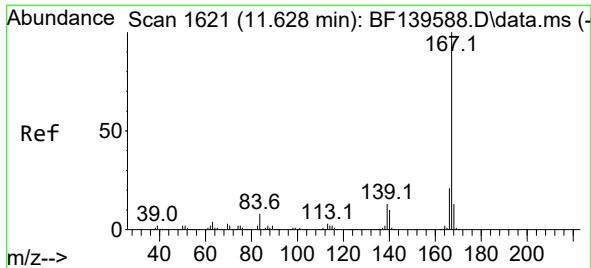
Ion Ratio Lower Upper

178 100

176 18.3 15.1 22.7

179 15.6 12.5 18.7

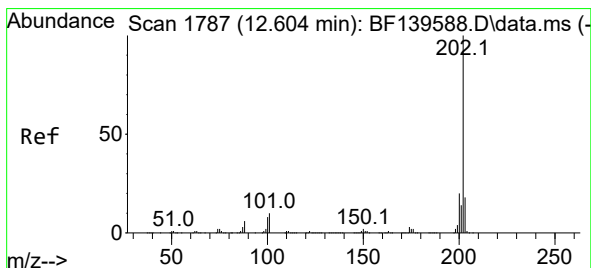
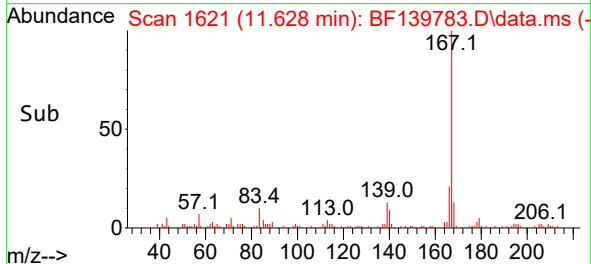
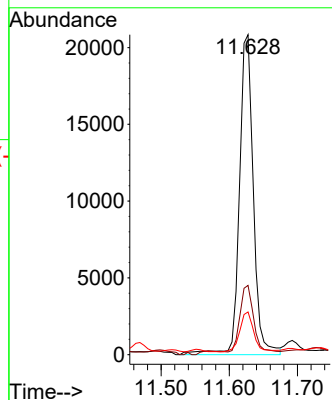
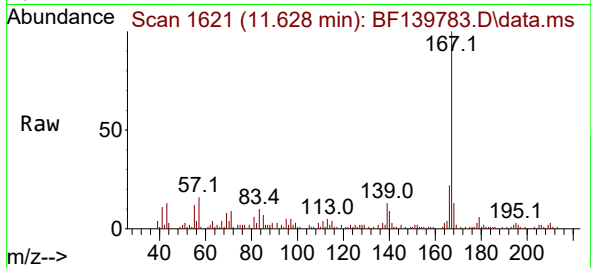




#73  
 Carbazole  
 Concen: 3.324 ng  
 RT: 11.628 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: BF139783.D  
 Acq: 11 Oct 2024 19:08

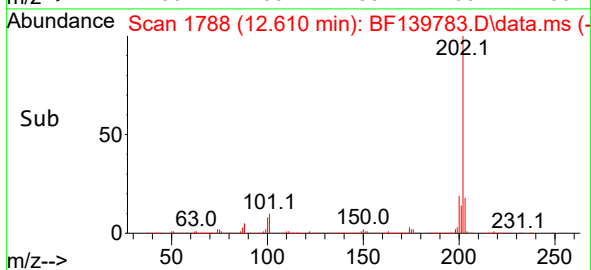
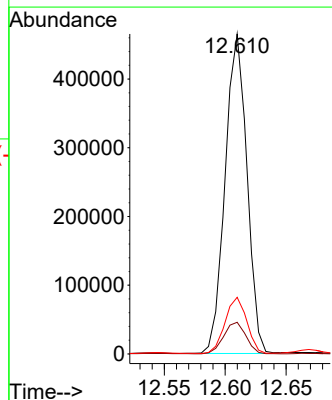
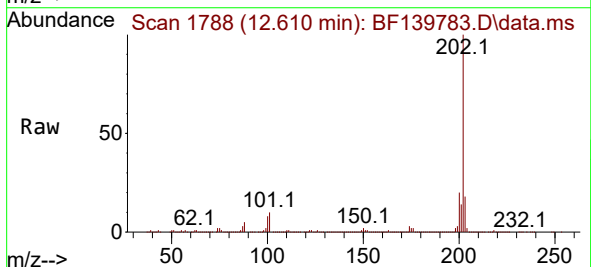
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-100924

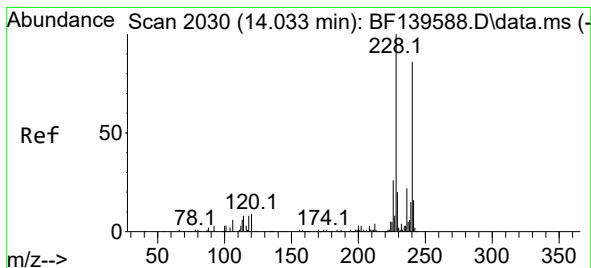
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 167   | Resp: | 29694 |
| Ion      | Ratio | Lower | Upper |
| 167      | 100   |       |       |
| 166      | 21.6  | 17.2  | 25.8  |
| 139      | 13.3  | 10.3  | 15.5  |



#75  
 Fluoranthene  
 Concen: 56.427 ng  
 RT: 12.610 min Scan# 1788  
 Delta R.T. 0.006 min  
 Lab File: BF139783.D  
 Acq: 11 Oct 2024 19:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 579908 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 9.9   | 0.0   | 30.2   |
| 203      | 17.7  | 0.0   | 37.7   |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. 0.000 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

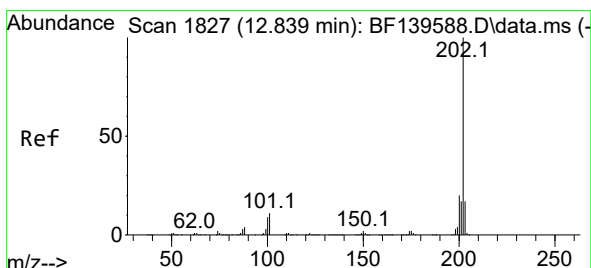
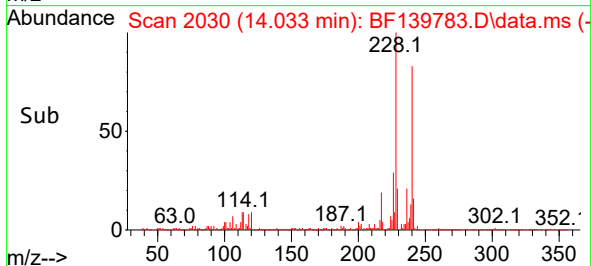
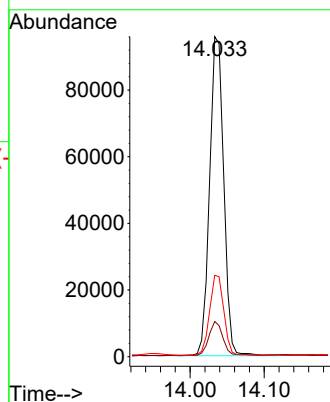
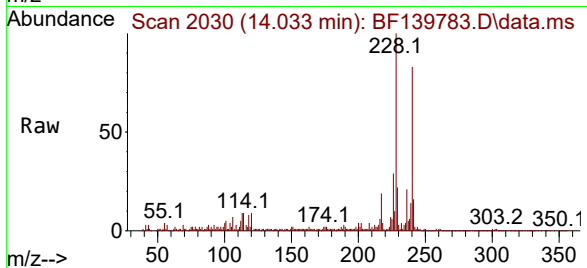
Tgt Ion:240 Resp: 126817

Ion Ratio Lower Upper

240 100

120 11.0 8.4 12.6

236 25.5 20.3 30.5



#78

Pyrene

Concen: 45.496 ng

RT: 12.839 min Scan# 1827

Delta R.T. 0.000 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

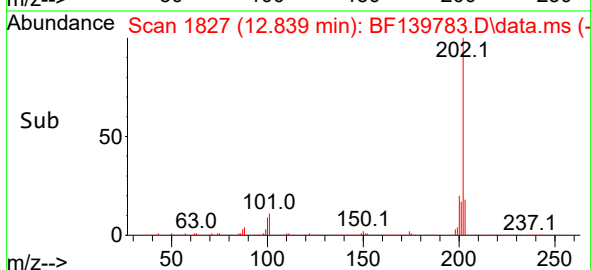
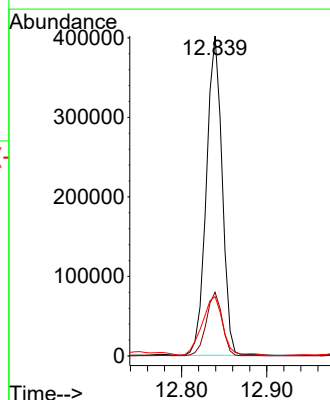
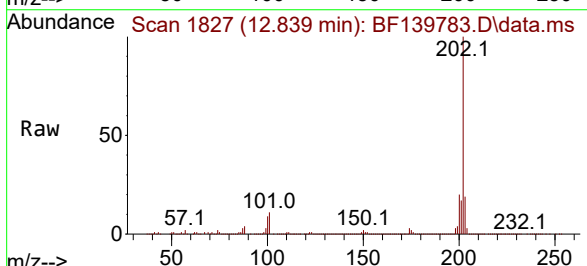
Tgt Ion:202 Resp: 516039

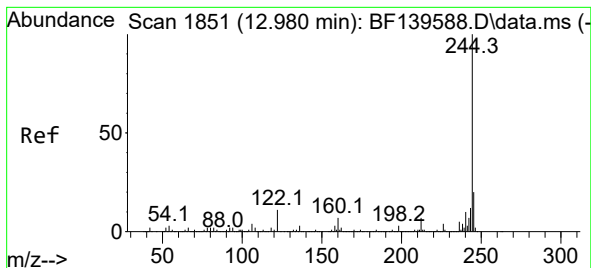
Ion Ratio Lower Upper

202 100

200 19.9 15.8 23.6

203 18.5 13.8 20.8





#79

Terphenyl-d14

Concen: 22.465 ng

RT: 12.975 min Scan# 11

Delta R.T. -0.005 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

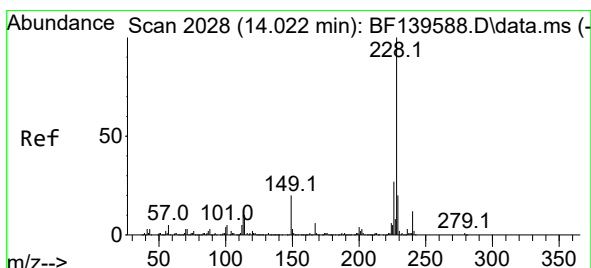
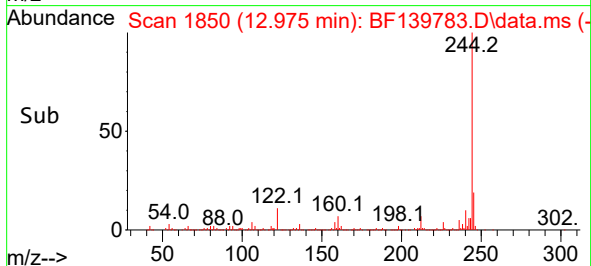
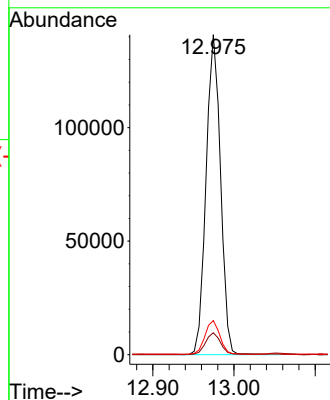
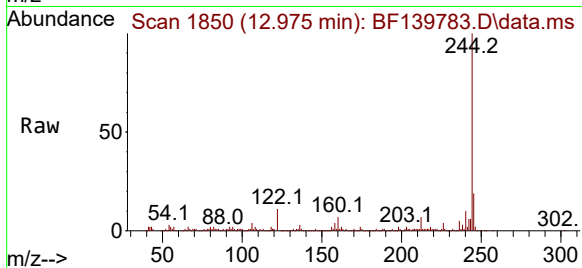
Tgt Ion:244 Resp: 173629

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

122 10.7 8.6 12.8



#81

Benzo(a)anthracene

Concen: 28.662 ng

RT: 14.027 min Scan# 2029

Delta R.T. 0.006 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

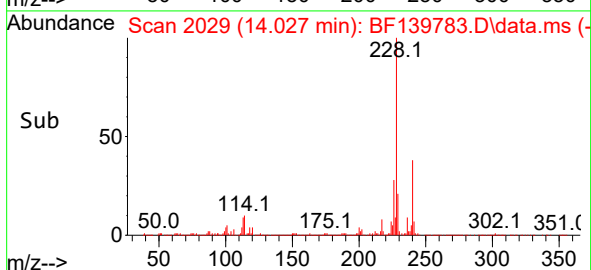
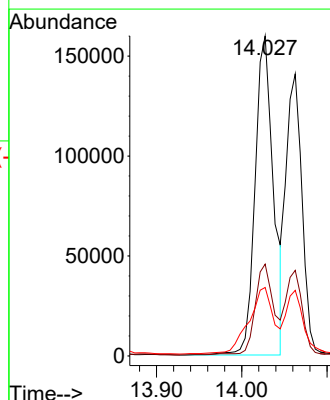
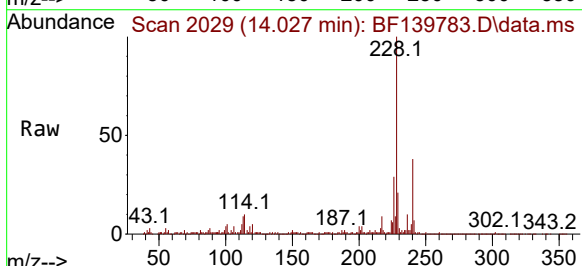
Tgt Ion:228 Resp: 238978

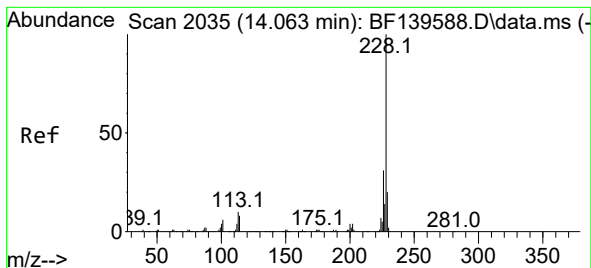
Ion Ratio Lower Upper

228 100

226 28.7 21.8 32.8

229 21.4 15.8 23.8





#83

Chrysene

Concen: 23.838 ng

RT: 14.063 min Scan# 2035

Delta R.T. 0.000 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

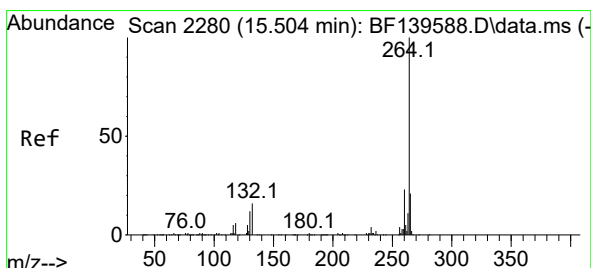
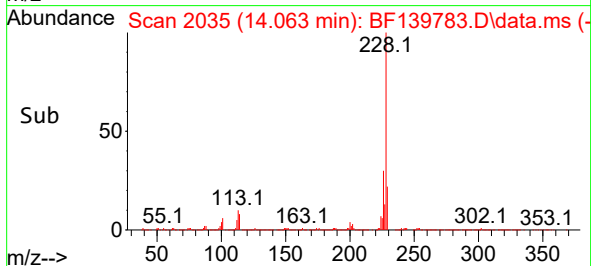
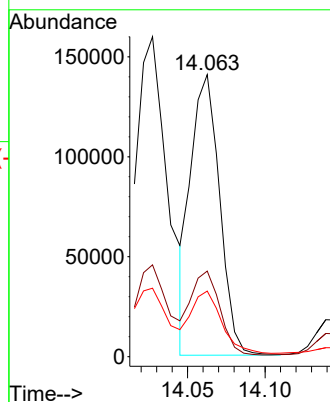
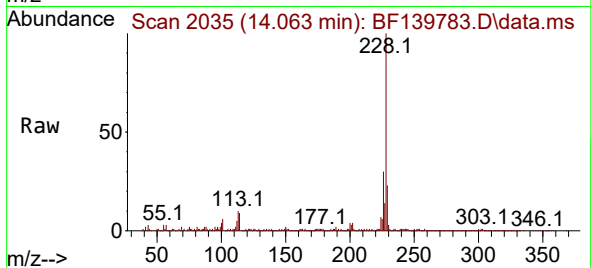
Tgt Ion:228 Resp: 181714

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 23.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.516 min Scan# 2282

Delta R.T. 0.012 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

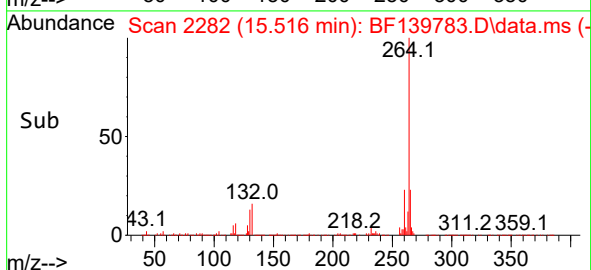
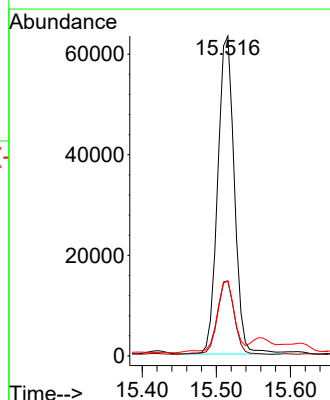
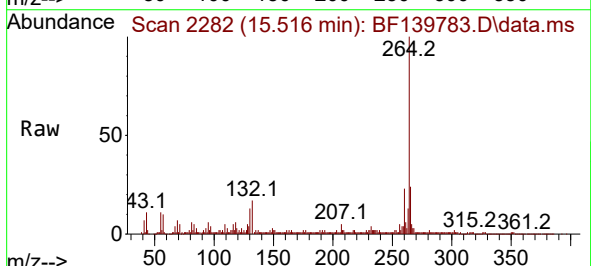
Tgt Ion:264 Resp: 98730

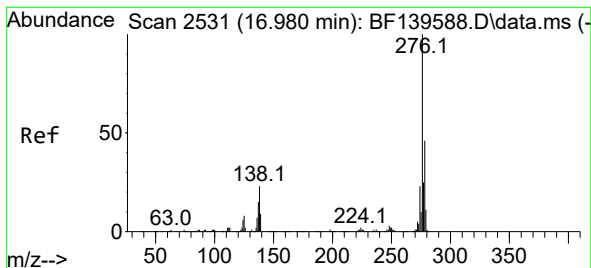
Ion Ratio Lower Upper

264 100

260 23.4 18.7 28.1

265 23.5 16.9 25.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.430 ng

RT: 16.992 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

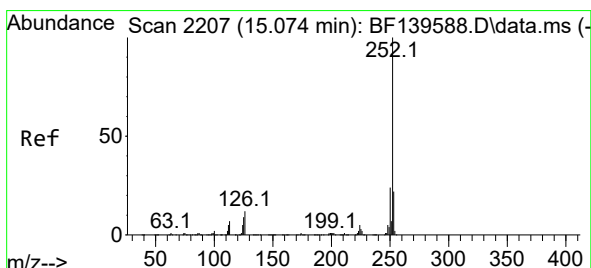
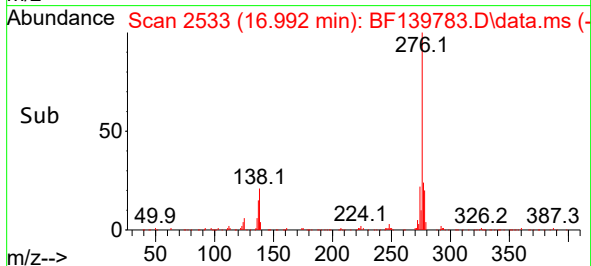
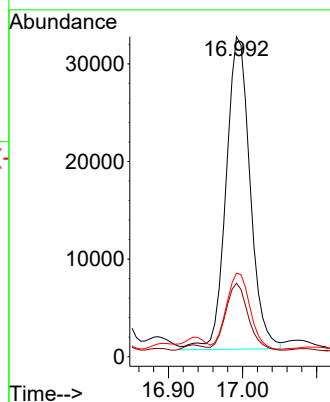
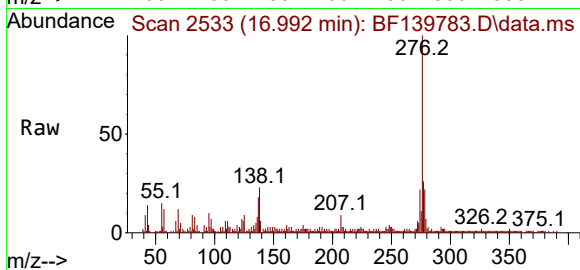
Tgt Ion:276 Resp: 72232

Ion Ratio Lower Upper

276 100

138 20.4 19.4 29.0

277 23.9 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 41.443 ng

RT: 15.086 min Scan# 2209

Delta R.T. 0.012 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

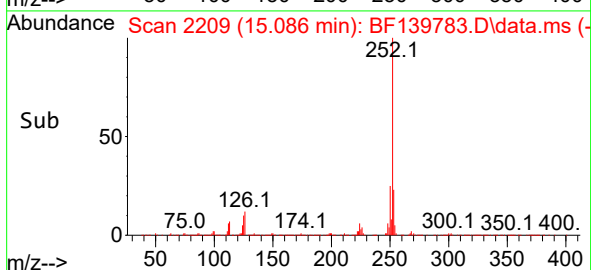
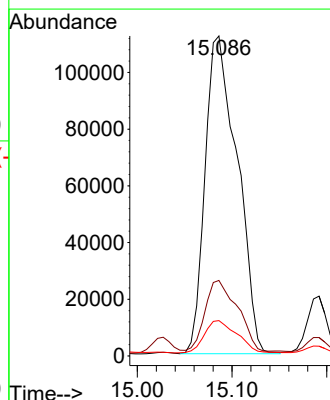
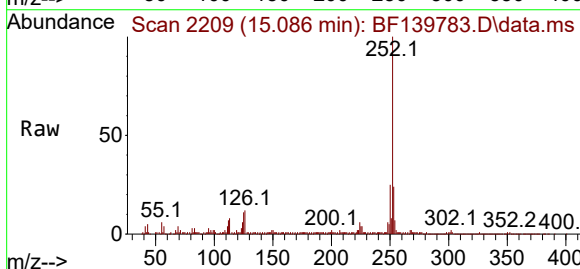
Tgt Ion:252 Resp: 264559

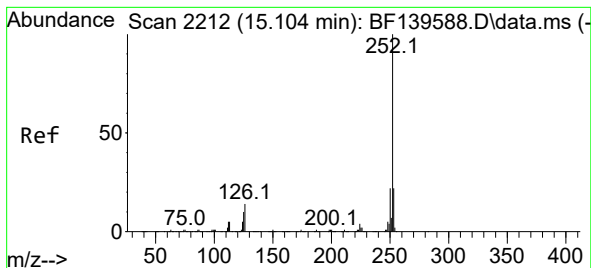
Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

125 11.0 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 48.856 ng

RT: 15.086 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

Instrument :

BNA\_F

ClientSampleId :

HD-01-100924

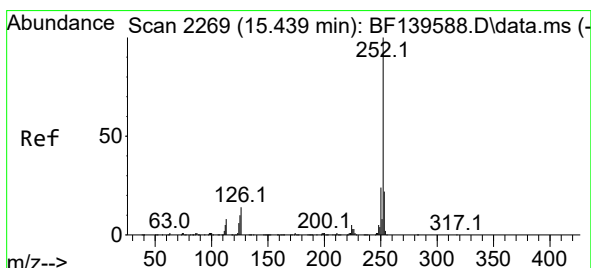
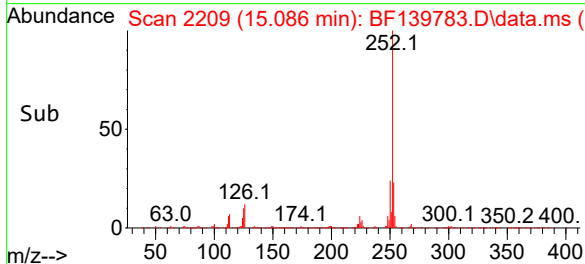
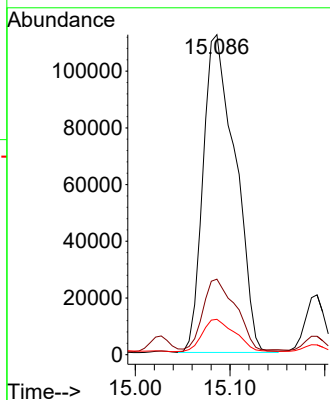
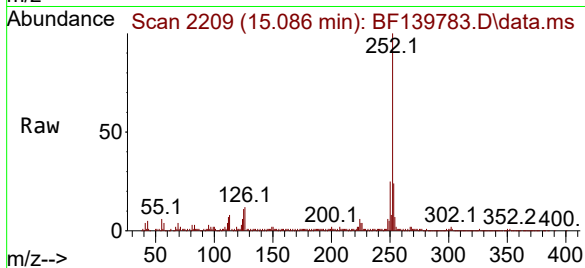
Tgt Ion:252 Resp: 264559

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

125 11.0 7.6 11.4



#90

Benzo(a)pyrene

Concen: 27.406 ng

RT: 15.451 min Scan# 2271

Delta R.T. 0.012 min

Lab File: BF139783.D

Acq: 11 Oct 2024 19:08

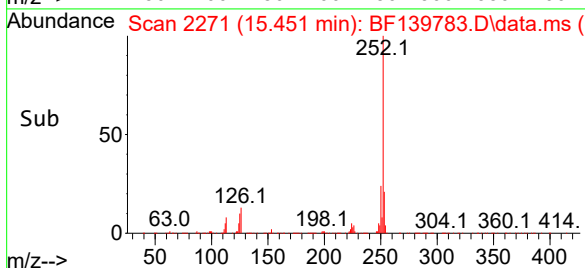
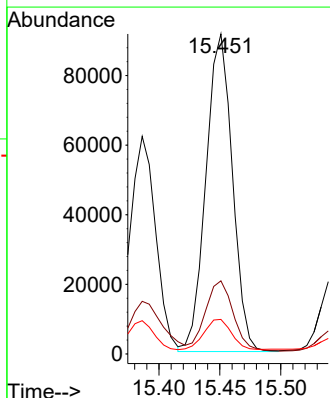
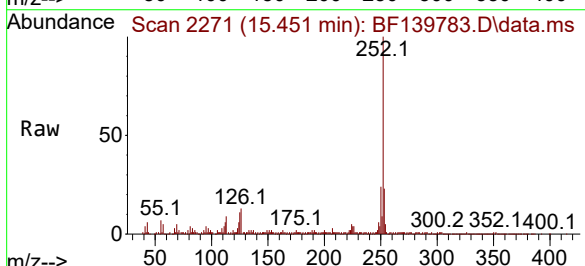
Tgt Ion:252 Resp: 137948

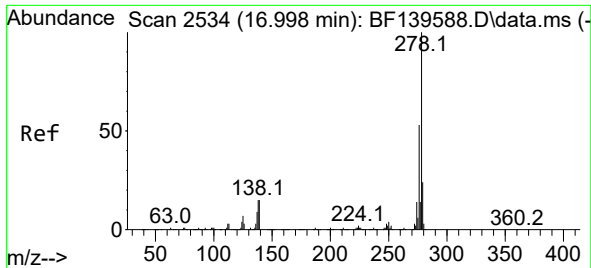
Ion Ratio Lower Upper

252 100

253 22.8 17.3 25.9

125 10.8 8.3 12.5

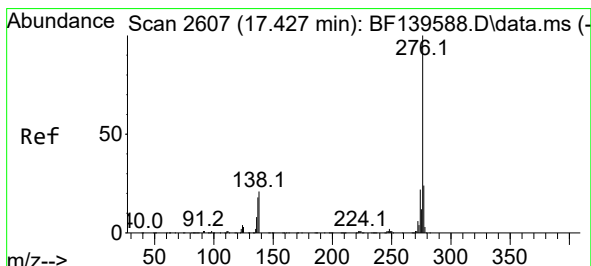
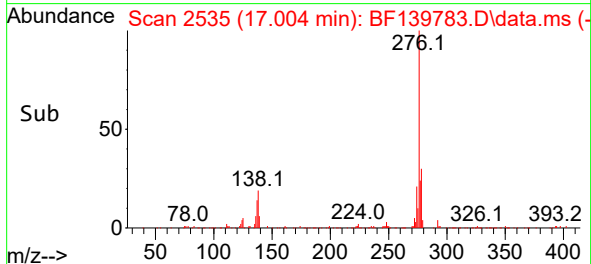
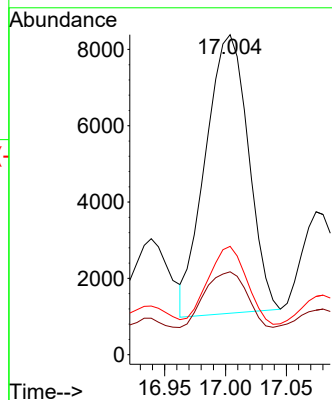
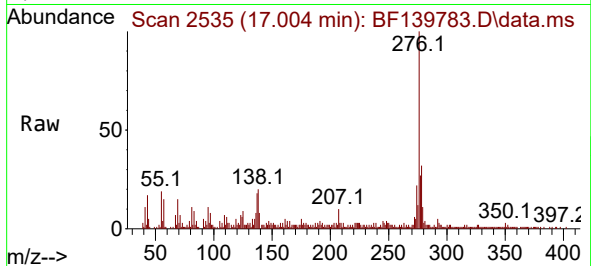




#91  
 Dibenzo(a,h)anthracene  
 Concen: 3.713 ng  
 RT: 17.004 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: BF139783.D  
 Acq: 11 Oct 2024 19:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-01-100924

Tgt Ion:278 Resp: 17896  
 Ion Ratio Lower Upper  
 278 100  
 139 25.9 12.2 18.4#  
 279 33.8 19.2 28.8#



#92  
 Benzo(g,h,i)perylene  
 Concen: 14.093 ng  
 RT: 17.445 min Scan# 2610  
 Delta R.T. 0.018 min  
 Lab File: BF139783.D  
 Acq: 11 Oct 2024 19:08

Tgt Ion:276 Resp: 68123  
 Ion Ratio Lower Upper  
 276 100  
 277 25.9 19.0 28.6  
 138 22.0 17.0 25.6

