

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101124\  
 Data File : BF139768.D  
 Acq On : 11 Oct 2024 11:56  
 Operator : RC/JU  
 Sample : P4376-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-100924

Quant Time: Oct 11 12:48:44 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

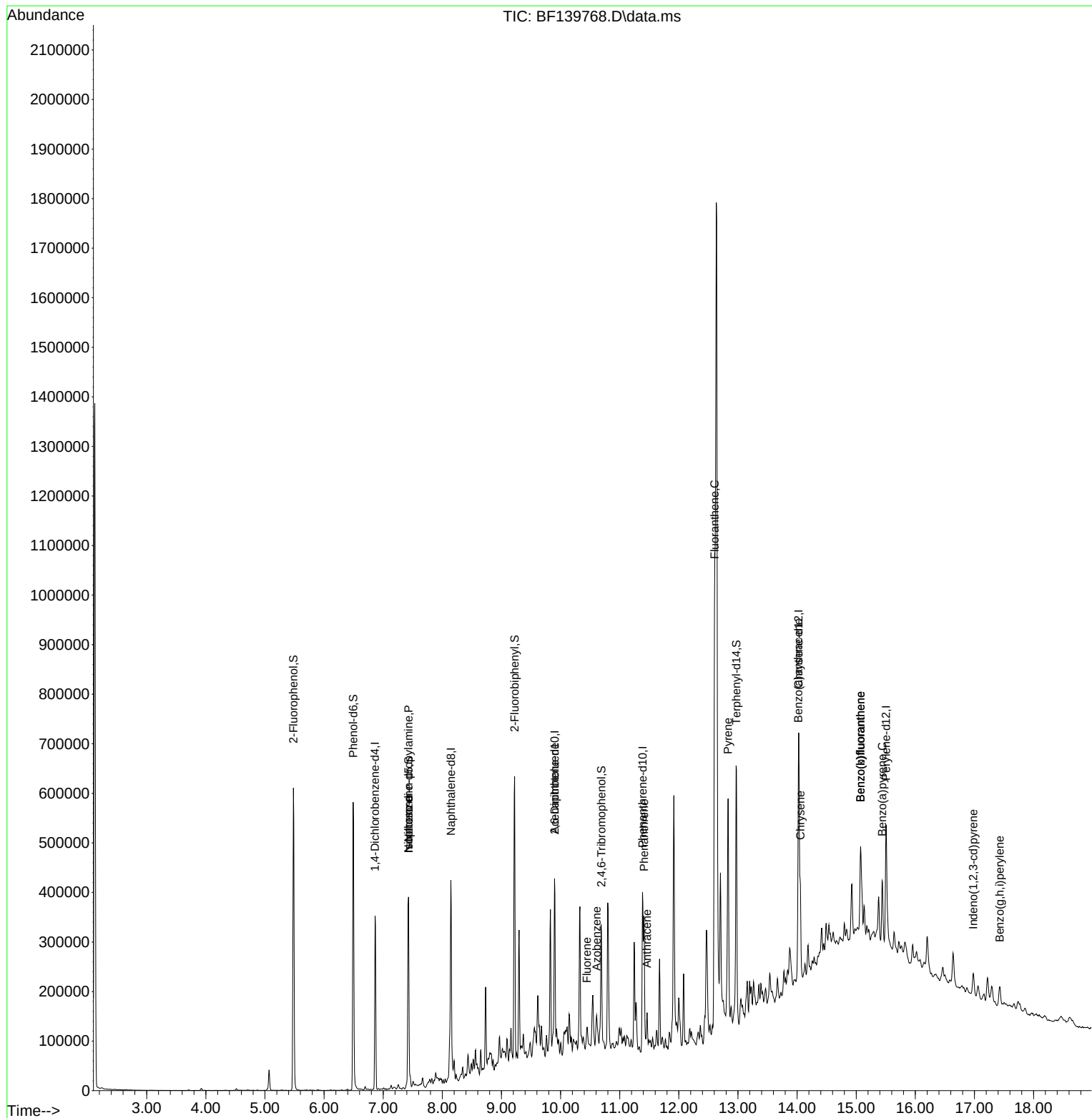
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.863  | 152  | 71490    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.145  | 136  | 234684   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.898  | 164  | 100888   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.386 | 188  | 164108   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.027 | 240  | 161162   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.504 | 264  | 128646   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.481  | 112  | 216833   | 52.570 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.492  | 99   | 263967   | 47.590 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.428  | 82   | 164462   | 35.481 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 39050    | 40.096 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 251042   | 38.200 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.974 | 244  | 252056   | 25.662 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.428  | 70   | 22715    | 6.370  | ng    | # 75     |
| 25) Isophorone                | 7.428  | 82   | 162131   | 19.693 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene        | 9.898  | 165  | 14077    | 9.436  | ng    | # 19     |
| 58) Fluorene                  | 10.445 | 166  | 14890    | 2.273  | ng    | # 95     |
| 63) Azobenzene                | 10.610 | 77   | 14513    | 2.116  | ng    | # 1      |
| 71) Phenanthrene              | 11.410 | 178  | 133312   | 17.229 | ng    | 100      |
| 72) Anthracene                | 11.463 | 178  | 38086    | 4.975  | ng    | 98       |
| 75) Fluoranthene              | 12.604 | 202  | 232377   | 27.472 | ng    | 100      |
| 78) Pyrene                    | 12.833 | 202  | 238407   | 16.540 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 130923   | 12.356 | ng    | 94       |
| 83) Chrysene                  | 14.057 | 228  | 98217    | 10.139 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.980 | 276  | 33149    | 4.378  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.074 | 252  | 141310   | 16.988 | ng    | # 94     |
| 89) Benzo(k)fluoranthene      | 15.074 | 252  | 141310   | 20.027 | ng    | # 94     |
| 90) Benzo(a)pyrene            | 15.439 | 252  | 73370    | 11.187 | ng    | # 91     |
| 92) Benzo(g,h,i)perylene      | 17.427 | 276  | 32875    | 5.220  | ng    | 94       |
| -----                         |        |      |          |        |       |          |

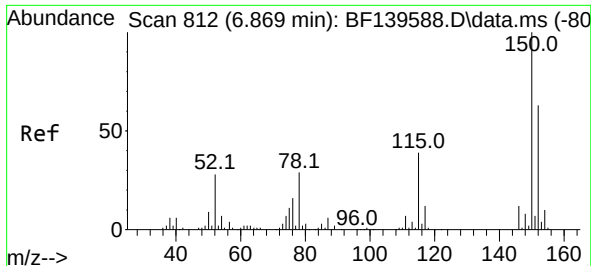
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101124\  
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Instrument :  
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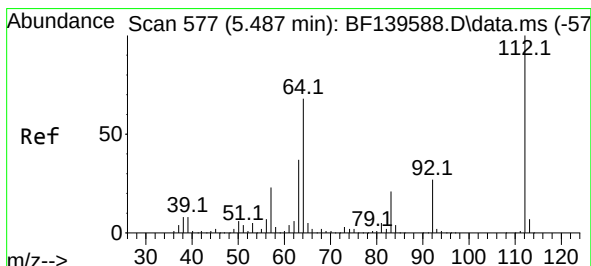
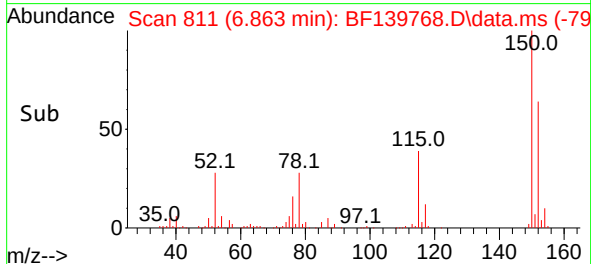
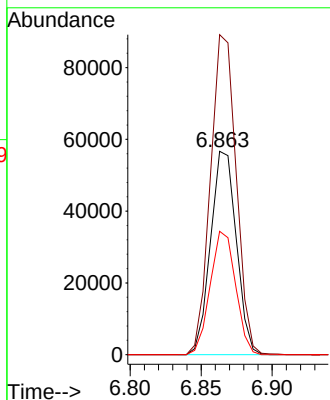
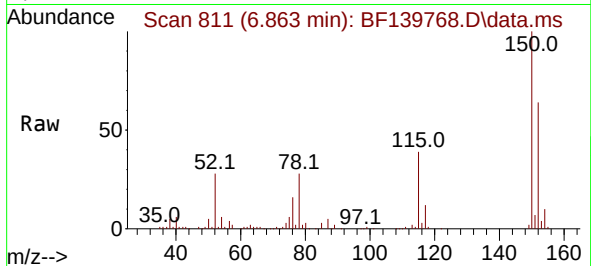




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.863 min Scan# 812  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

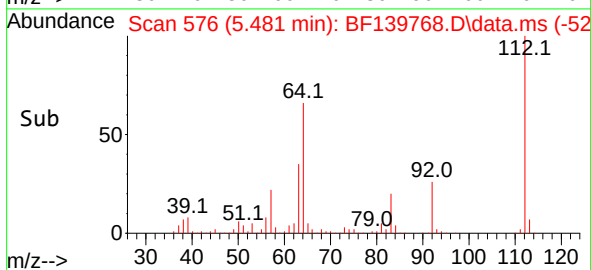
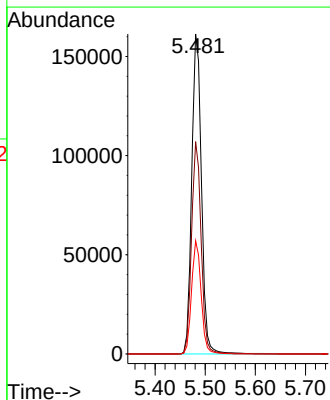
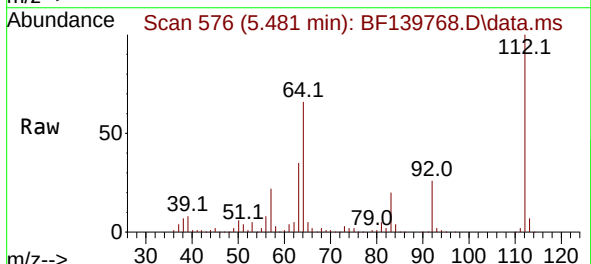
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

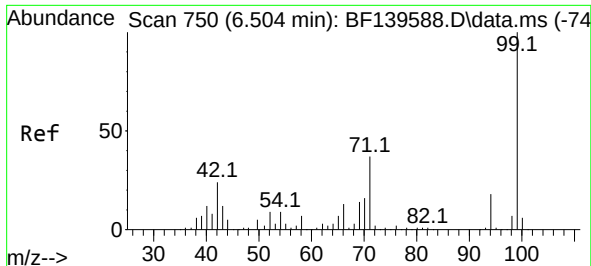
Tgt Ion:152 Resp: 71490  
Ion Ratio Lower Upper  
152 100  
150 157.4 127.2 190.8  
115 60.7 49.0 73.4



#5  
2-Fluorophenol  
Concen: 52.570 ng  
RT: 5.481 min Scan# 576  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:112 Resp: 216833  
Ion Ratio Lower Upper  
112 100  
64 66.3 54.2 81.4  
63 35.4 29.4 44.2

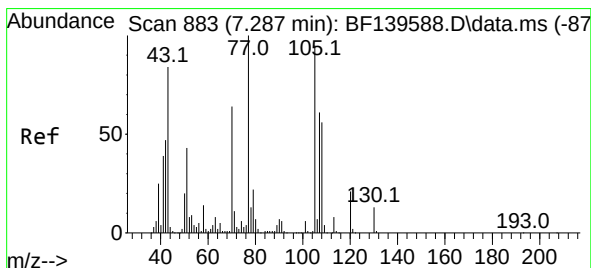
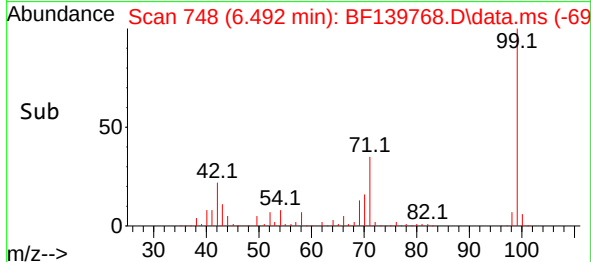
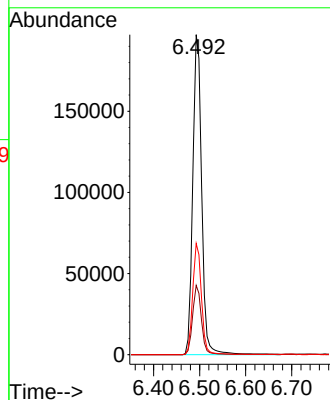
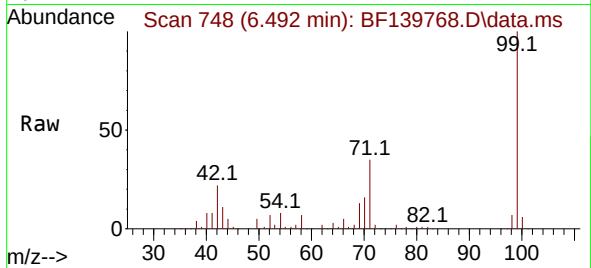




#7  
Phenol-d6  
Concen: 47.590 ng  
RT: 6.492 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

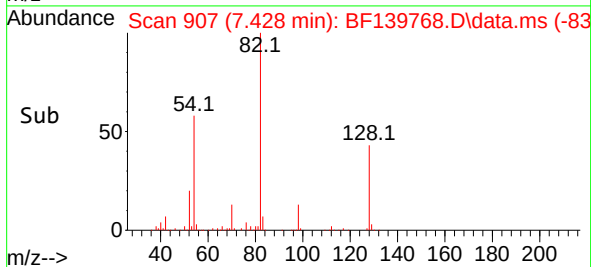
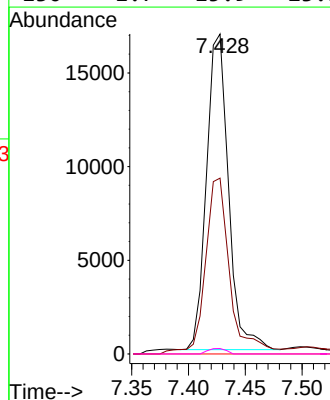
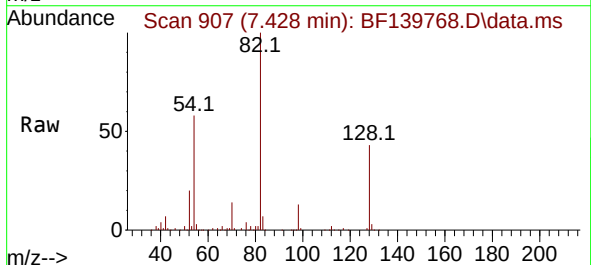
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

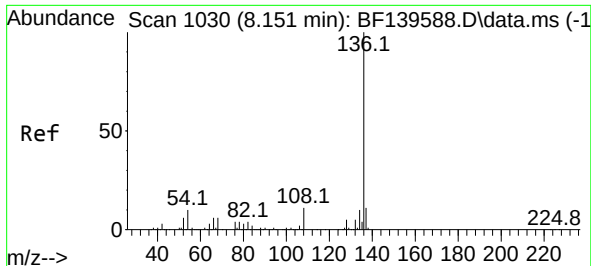
Tgt Ion: 99 Resp: 263967  
Ion Ratio Lower Upper  
99 100  
42 21.7 19.1 28.7  
71 34.8 29.7 44.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 6.370 ng  
RT: 7.428 min Scan# 907  
Delta R.T. 0.141 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion: 70 Resp: 22715  
Ion Ratio Lower Upper  
70 100  
42 55.0 58.0 87.0#  
101 0.0 7.8 11.8#  
130 1.7 15.9 23.9#



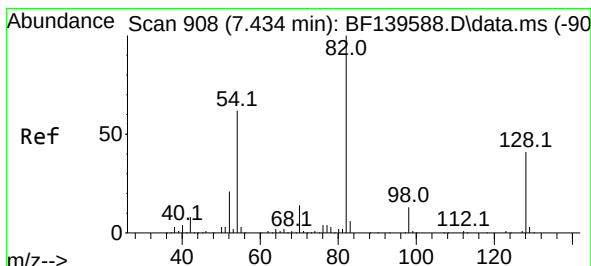
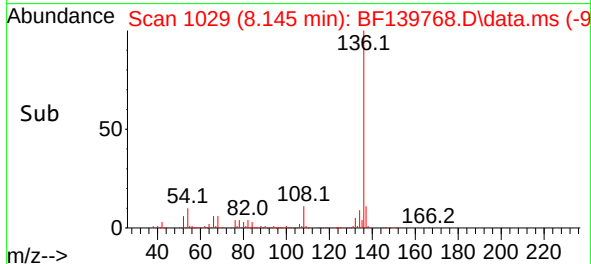
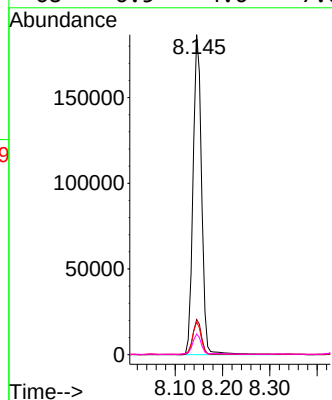
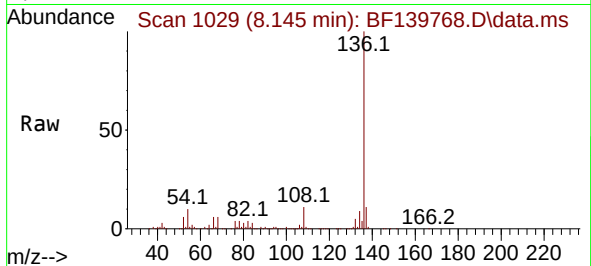


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.145 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

Tgt Ion:136 Resp: 234684

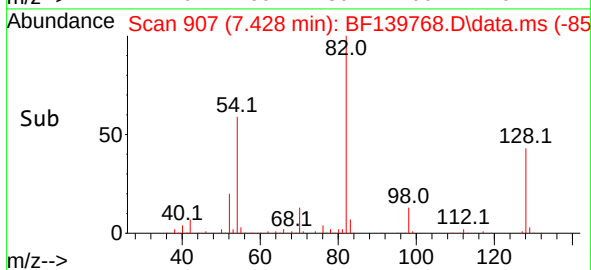
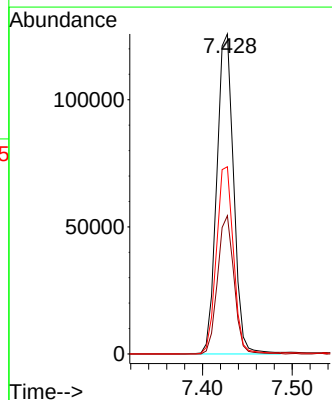
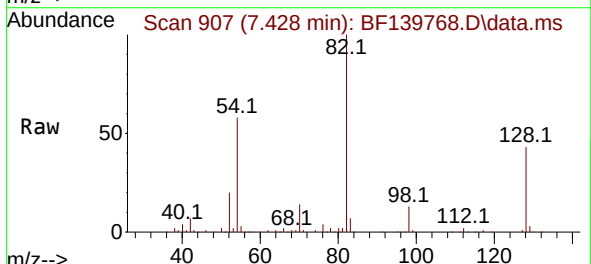
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 8.6   | 13.0  |
| 54  | 10.2  | 8.3   | 12.5  |
| 68  | 6.5   | 4.6   | 7.0   |

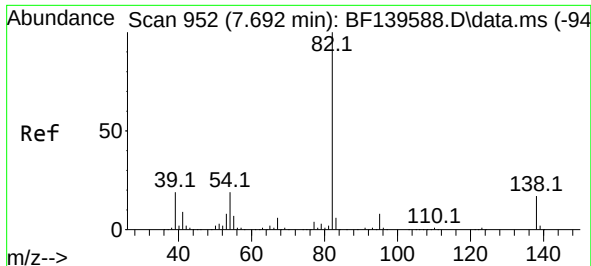


#23  
Nitrobenzene-d5  
Concen: 35.481 ng  
RT: 7.428 min Scan# 907  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion: 82 Resp: 164462

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.2  | 32.4  | 48.6  |
| 54  | 58.5  | 49.1  | 73.7  |

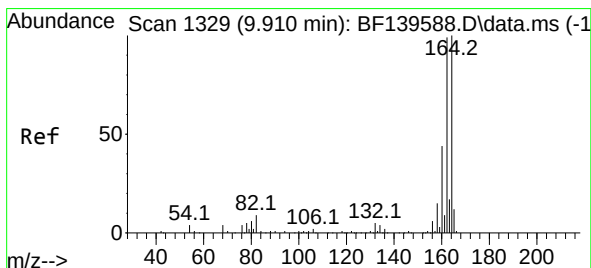
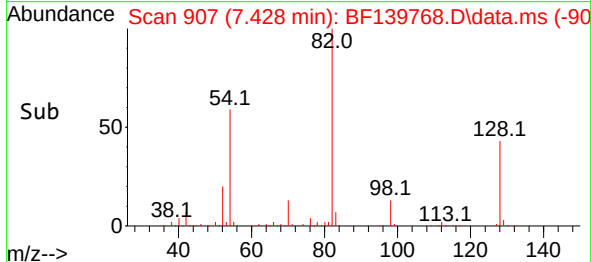
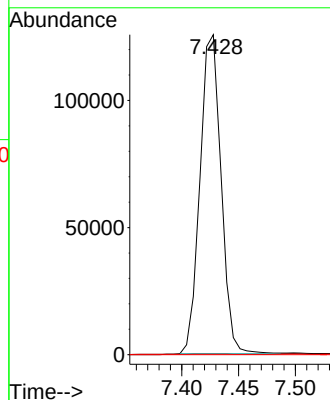
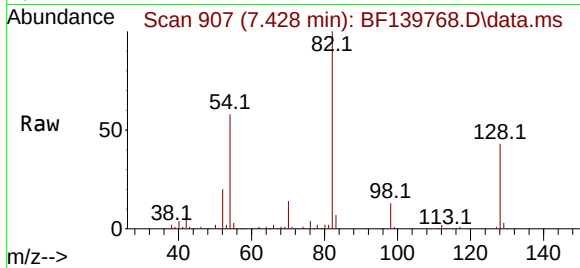




#25  
Isophorone  
Concen: 19.693 ng  
RT: 7.428 min Scan# 90  
Delta R.T. -0.265 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

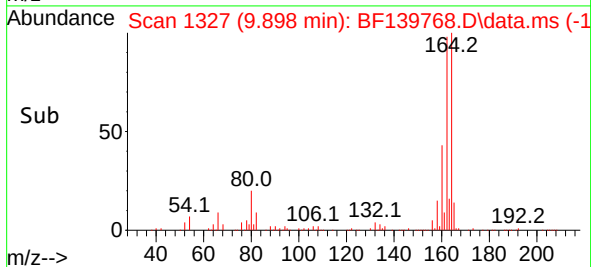
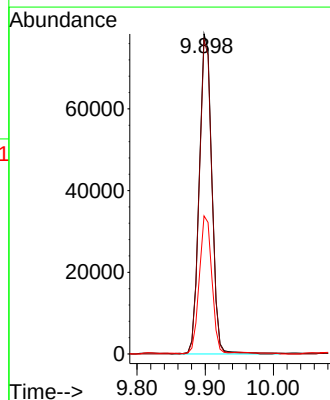
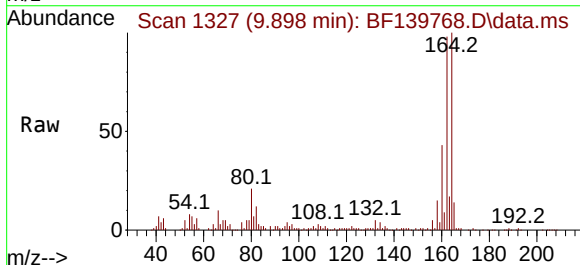
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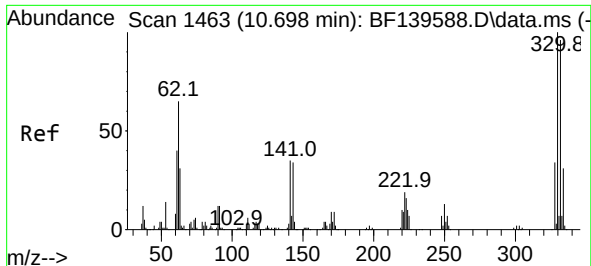
Tgt Ion: 82 Resp: 162131  
Ion Ratio Lower Upper  
82 100  
95 0.2 6.1 9.1#  
138 0.0 13.4 20.2#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.898 min Scan# 1327  
Delta R.T. -0.012 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:164 Resp: 100888  
Ion Ratio Lower Upper  
164 100  
162 98.1 79.4 119.0  
160 43.1 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 40.096 ng

RT: 10.692 min Scan# 1462

Delta R.T. -0.006 min

Lab File: BF139768.D

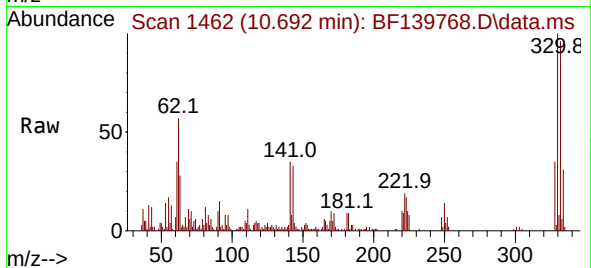
Acq: 11 Oct 2024 11:56

Instrument :

BNA\_F

ClientSampleId :

OR-02-100924



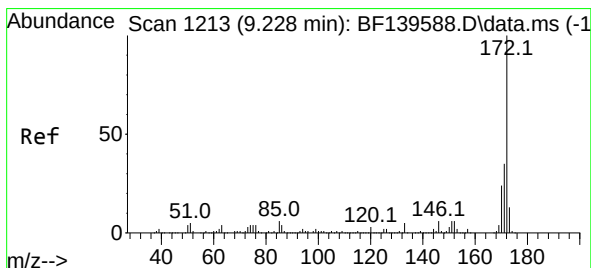
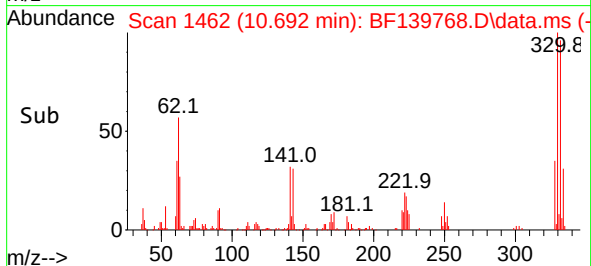
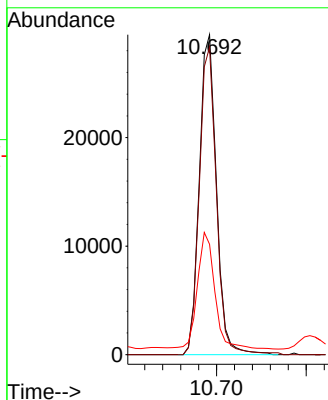
Tgt Ion:330 Resp: 39050

Ion Ratio Lower Upper

330 100

332 95.8 76.5 114.7

141 37.2 29.3 43.9



#45

2-Fluorobiphenyl

Concen: 38.200 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.006 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

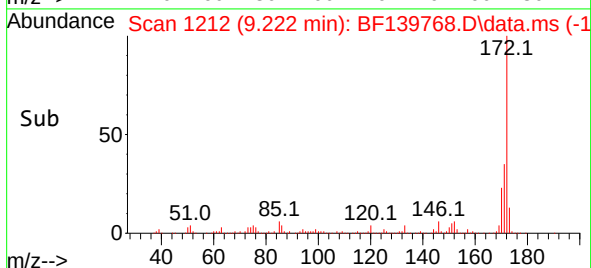
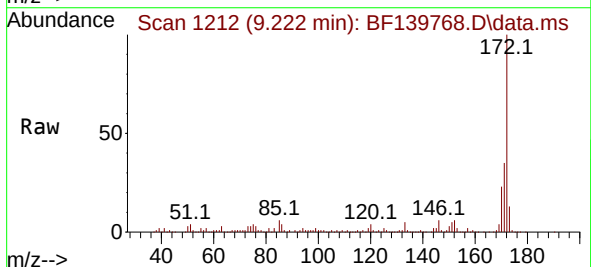
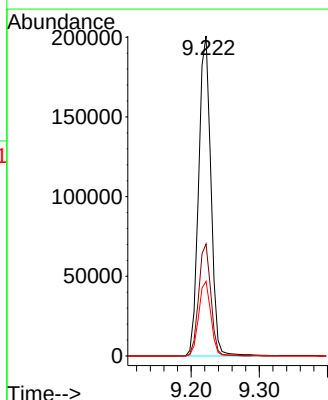
Tgt Ion:172 Resp: 251042

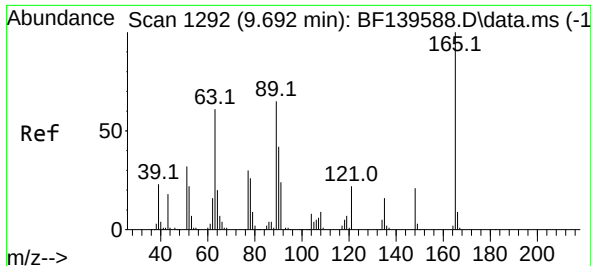
Ion Ratio Lower Upper

172 100

171 35.0 28.2 42.4

170 23.3 18.8 28.2

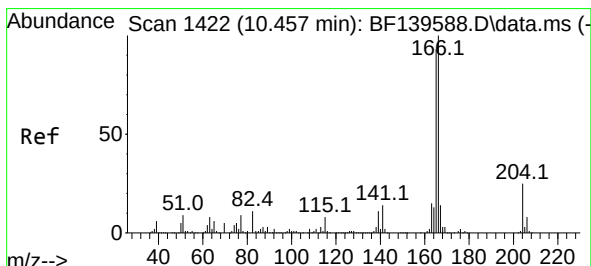
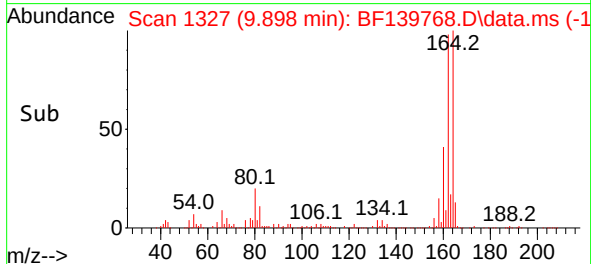
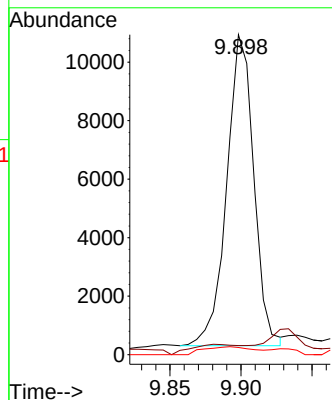
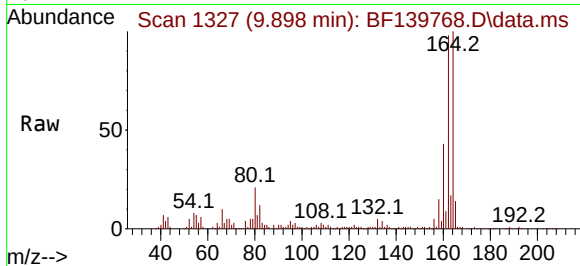




#51  
2,6-Dinitrotoluene  
Concen: 9.436 ng  
RT: 9.898 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

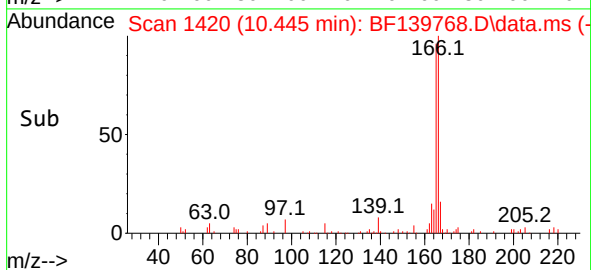
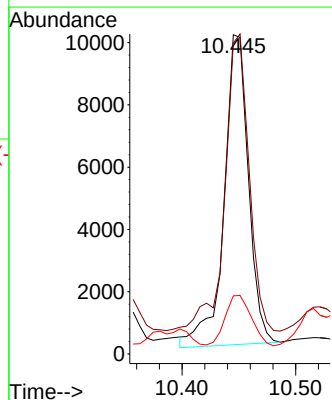
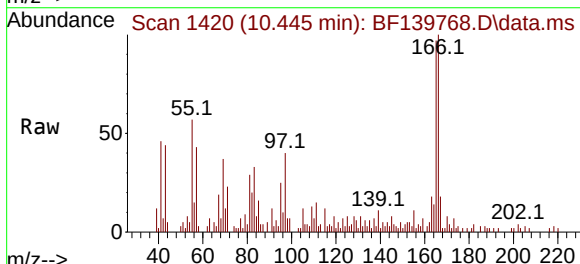
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

Tgt Ion:165 Resp: 14077  
Ion Ratio Lower Upper  
165 100  
63 2.9 56.7 85.1#  
89 2.3 51.6 77.4#

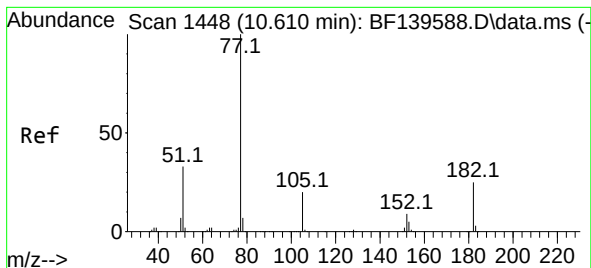


#58  
Fluorene  
Concen: 2.273 ng  
RT: 10.445 min Scan# 1420  
Delta R.T. -0.012 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:166 Resp: 14890  
Ion Ratio Lower Upper  
166 100  
165 97.4 74.4 111.6  
167 18.2 10.9 16.3#







#63

Azobenzene

Concen: 2.116 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

Instrument :

BNA\_F

ClientSampleId :

OR-02-100924

Tgt Ion: 77 Resp: 14513

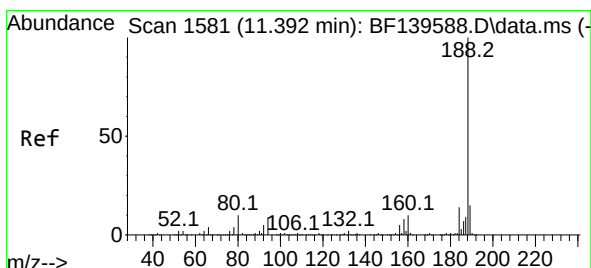
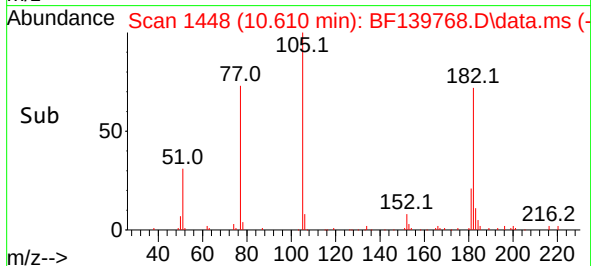
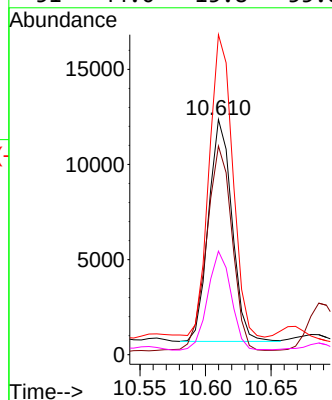
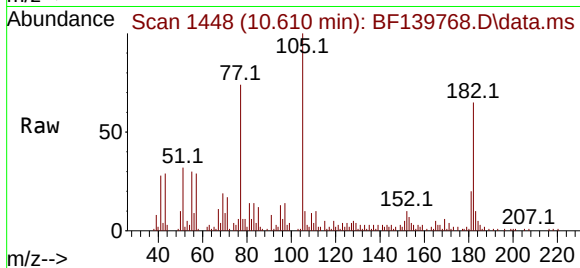
Ion Ratio Lower Upper

77 100

182 88.7 4.2 44.2#

105 136.0 0.0 39.6#

51 44.0 15.8 55.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.386 min Scan# 1580

Delta R.T. -0.006 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

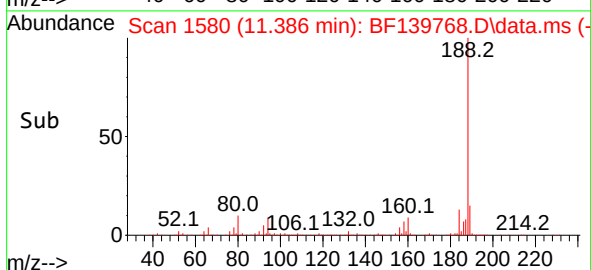
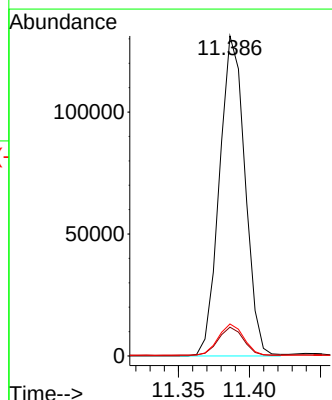
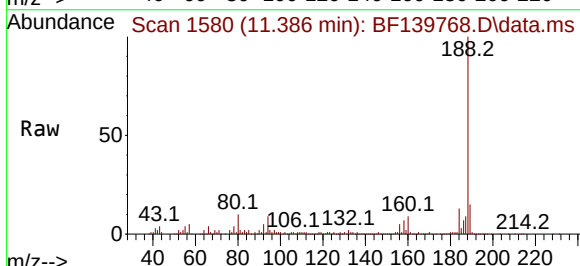
Tgt Ion:188 Resp: 164108

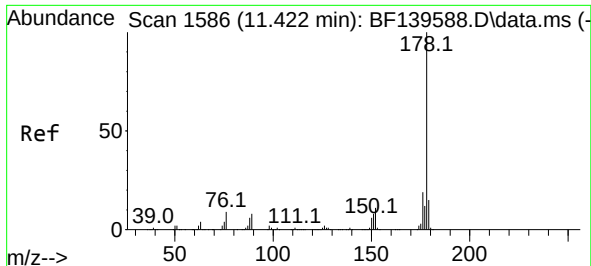
Ion Ratio Lower Upper

188 100

94 9.0 7.4 11.2

80 10.0 8.2 12.2

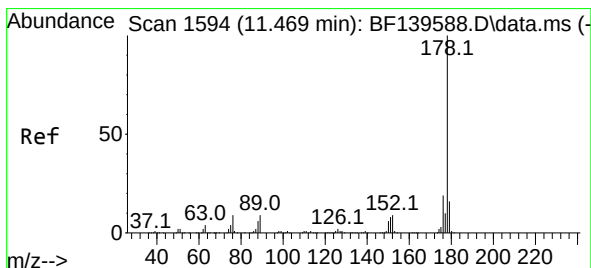
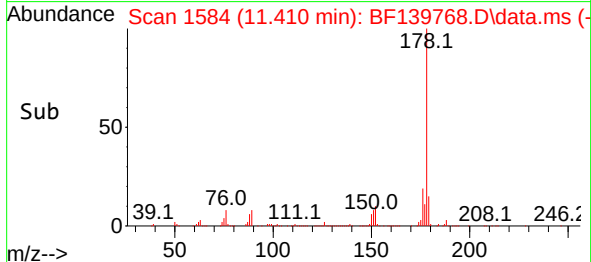
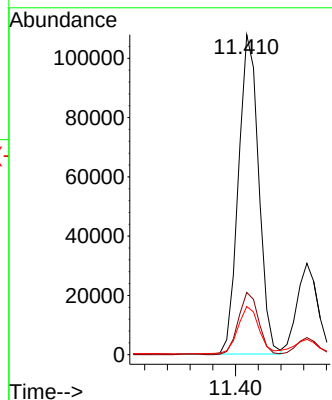
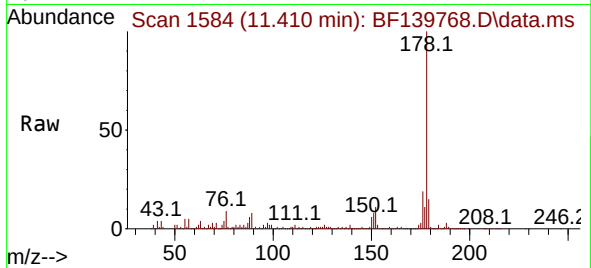




#71  
Phenanthrene  
Concen: 17.229 ng  
RT: 11.410 min Scan# 1586  
Delta R.T. -0.012 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

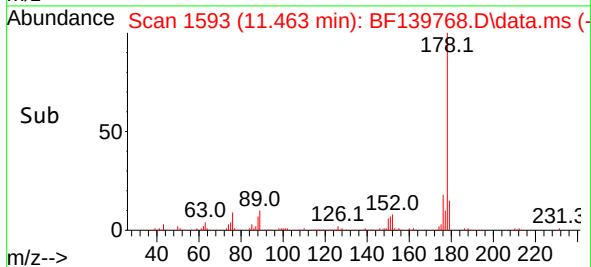
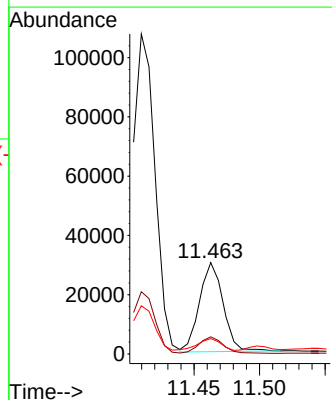
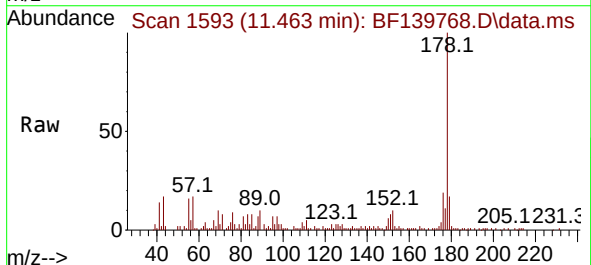
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

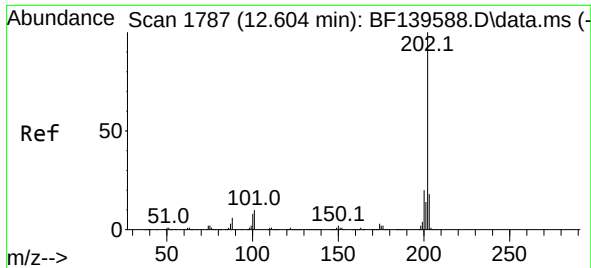
Tgt Ion:178 Resp: 133312  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.5 23.3  
179 15.1 12.3 18.5



#72  
Anthracene  
Concen: 4.975 ng  
RT: 11.463 min Scan# 1593  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:178 Resp: 38086  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.1 22.7  
179 16.8 12.5 18.7

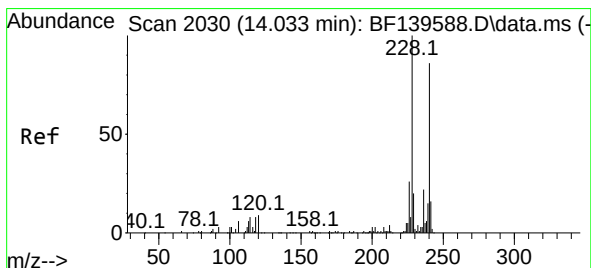
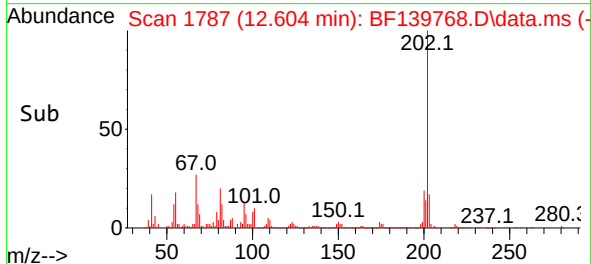
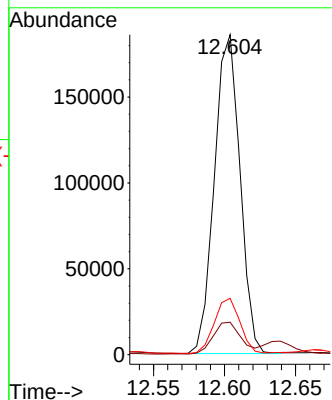
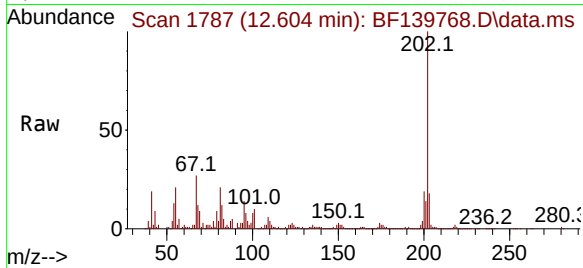




#75  
Fluoranthene  
Concen: 27.472 ng  
RT: 12.604 min Scan# 1787  
Delta R.T. -0.000 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

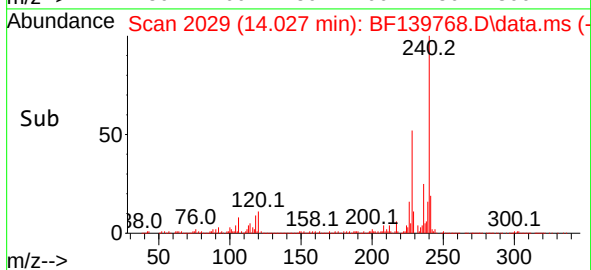
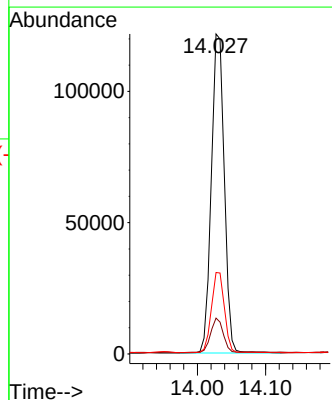
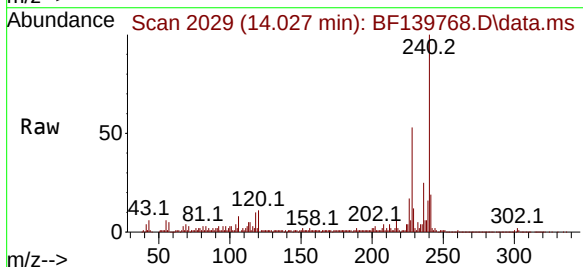
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

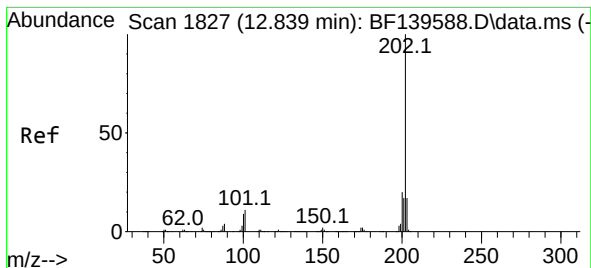
Tgt Ion:202 Resp: 232377  
Ion Ratio Lower Upper  
202 100  
101 10.1 0.0 30.2  
203 17.6 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.027 min Scan# 2029  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:240 Resp: 161162  
Ion Ratio Lower Upper  
240 100  
120 11.2 8.4 12.6  
236 25.4 20.3 30.5





#78

Pyrene

Concen: 16.540 ng

RT: 12.833 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

Instrument :

BNA\_F

ClientSampleId :

OR-02-100924

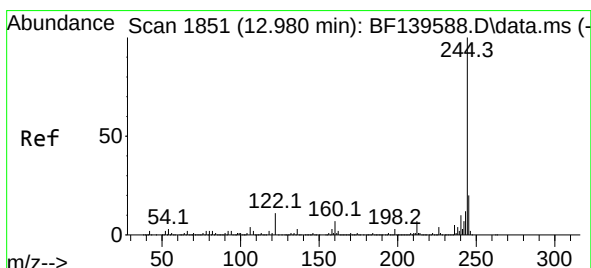
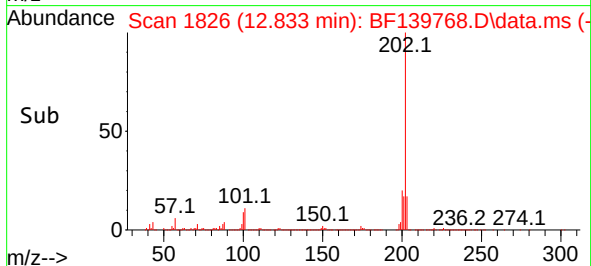
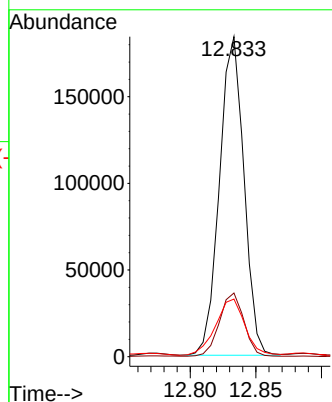
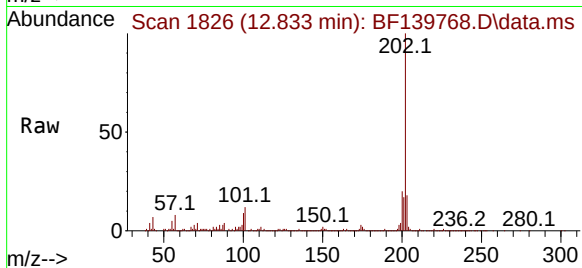
Tgt Ion:202 Resp: 238407

Ion Ratio Lower Upper

202 100

200 19.9 15.8 23.6

203 18.0 13.8 20.8



#79

Terphenyl-d14

Concen: 25.662 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.006 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

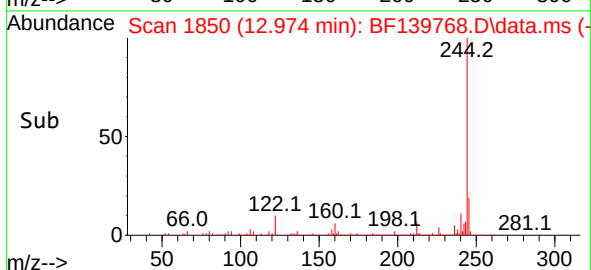
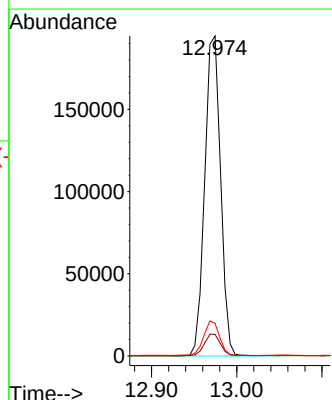
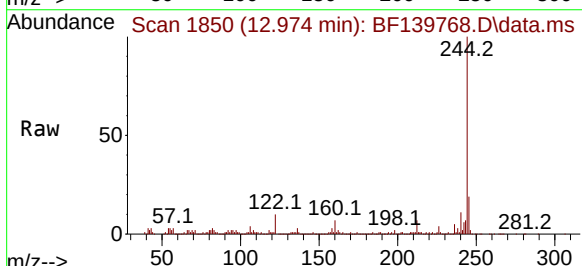
Tgt Ion:244 Resp: 252056

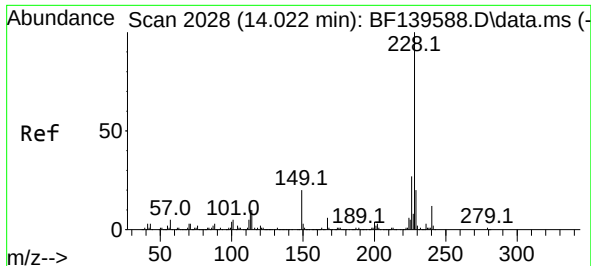
Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

122 10.1 8.6 12.8



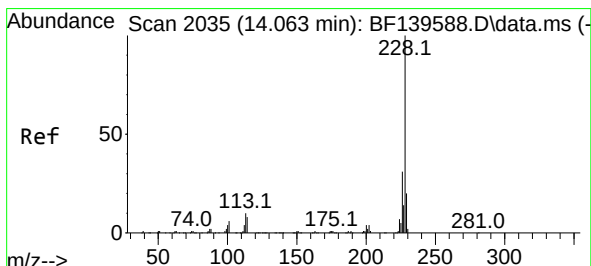
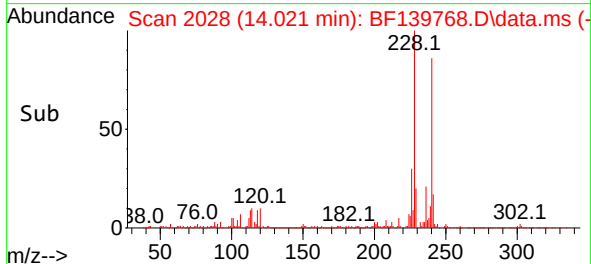
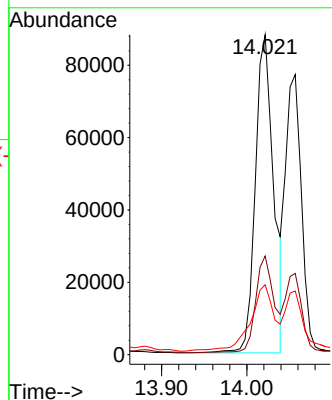
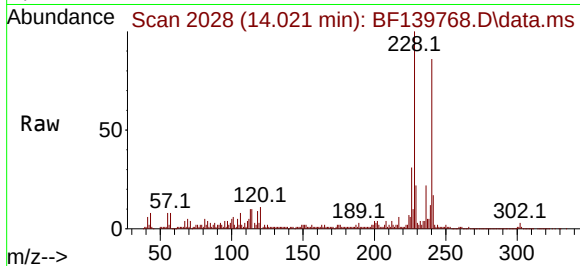


#81  
Benzo(a)anthracene  
Concen: 12.356 ng  
RT: 14.021 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-100924

Tgt Ion:228 Resp: 130923

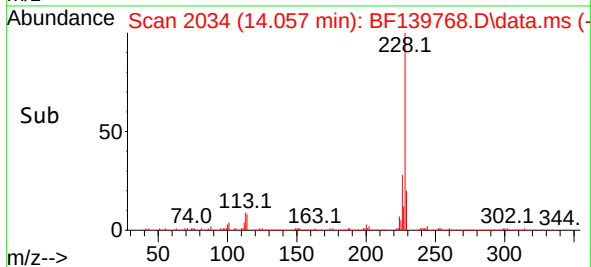
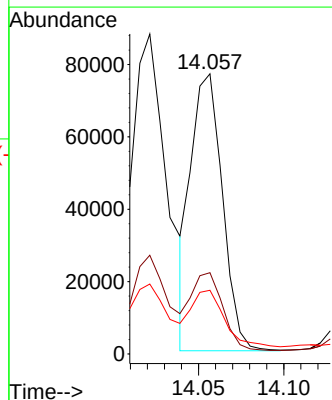
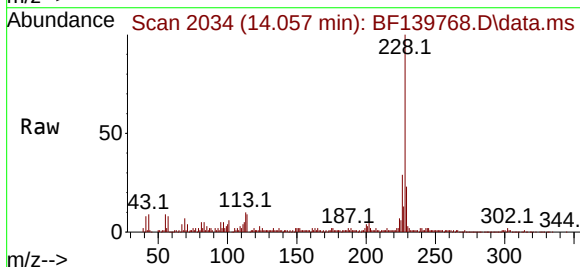
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.8  | 21.8  | 32.8  |
| 229 | 21.9  | 15.8  | 23.8  |

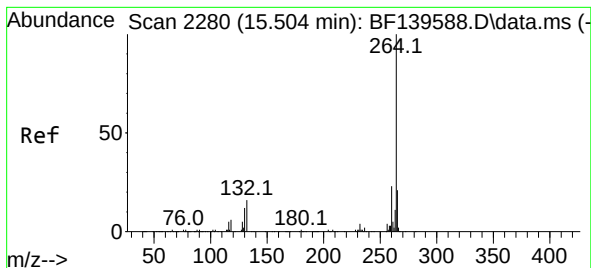


#83  
Chrysene  
Concen: 10.139 ng  
RT: 14.057 min Scan# 2034  
Delta R.T. -0.006 min  
Lab File: BF139768.D  
Acq: 11 Oct 2024 11:56

Tgt Ion:228 Resp: 98217

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.0  | 24.3  | 36.5  |
| 229 | 22.7  | 15.7  | 23.5  |





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

Instrument :

BNA\_F

ClientSampleId :

OR-02-100924

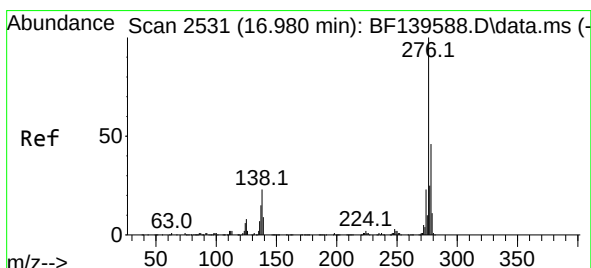
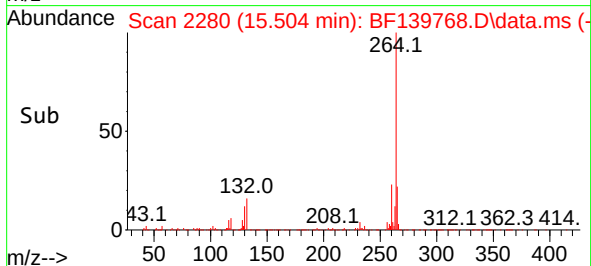
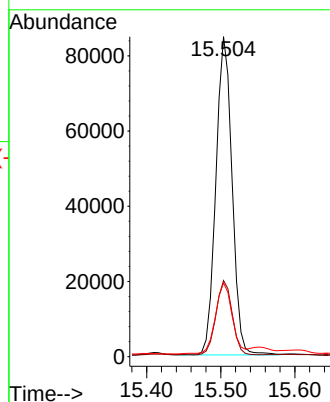
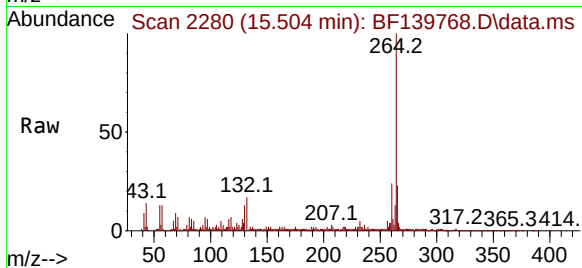
Tgt Ion:264 Resp: 128646

Ion Ratio Lower Upper

264 100

260 23.8 18.7 28.1

265 23.0 16.9 25.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.378 ng

RT: 16.980 min Scan# 2531

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

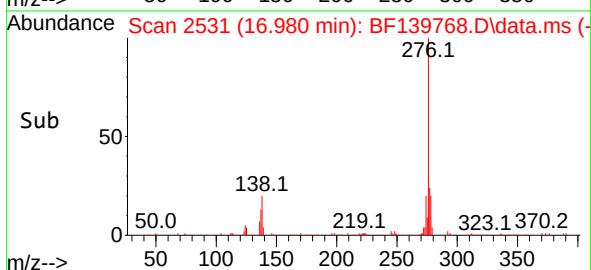
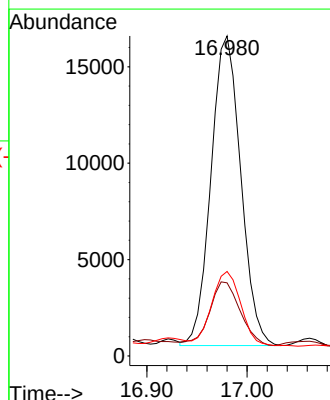
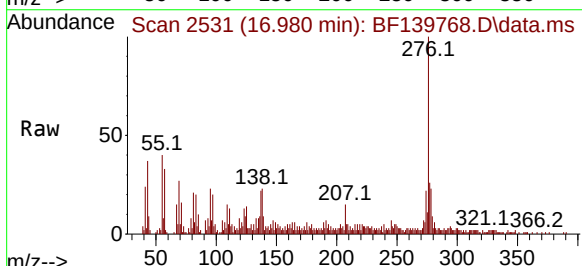
Tgt Ion:276 Resp: 33149

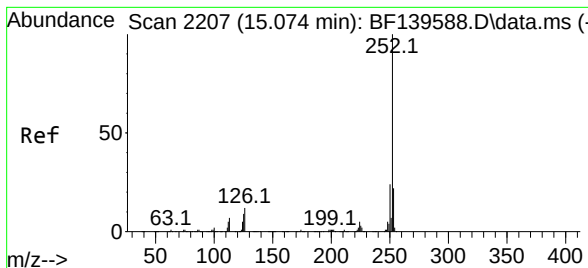
Ion Ratio Lower Upper

276 100

138 21.3 19.4 29.0

277 23.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 16.988 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

Instrument :

BNA\_F

ClientSampleId :

OR-02-100924

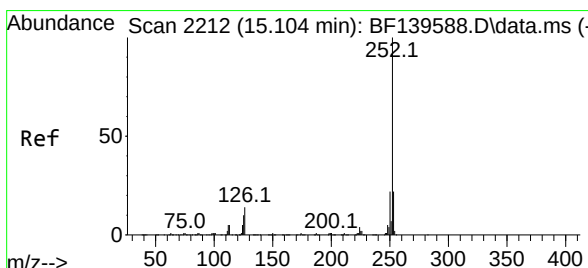
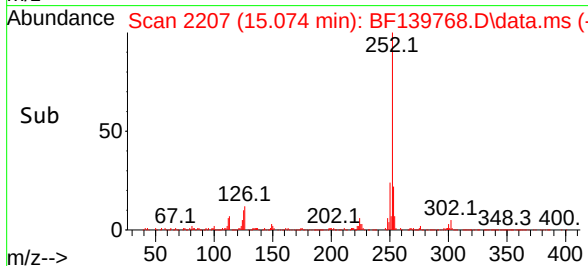
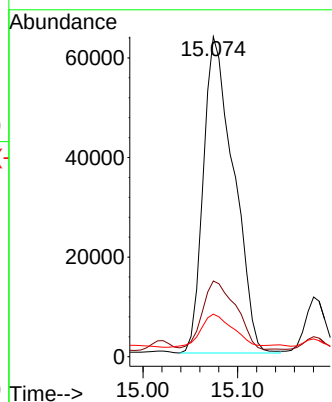
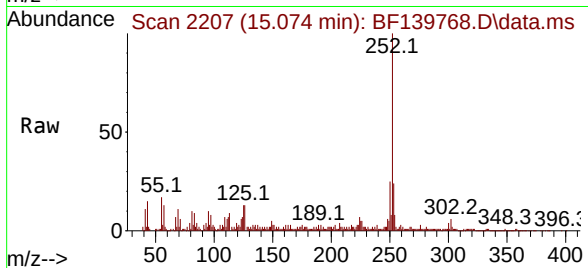
Tgt Ion:252 Resp: 141310

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 13.3 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 20.027 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.030 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

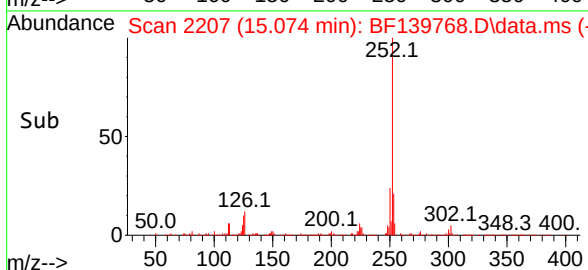
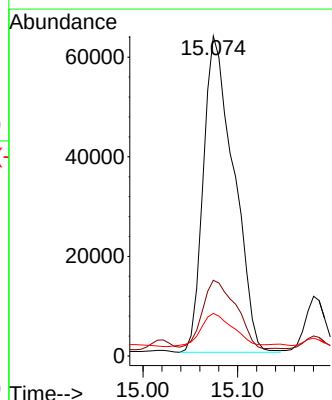
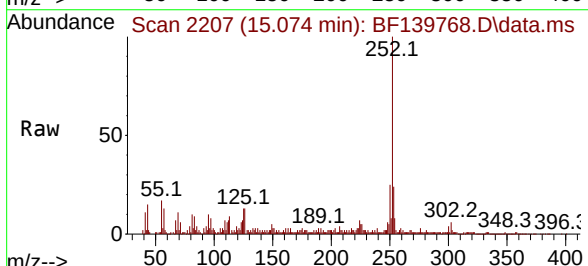
Tgt Ion:252 Resp: 141310

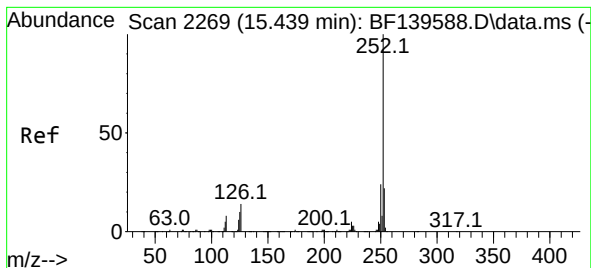
Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 13.3 7.6 11.4#





#90

Benzo(a)pyrene

Concen: 11.187 ng

RT: 15.439 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

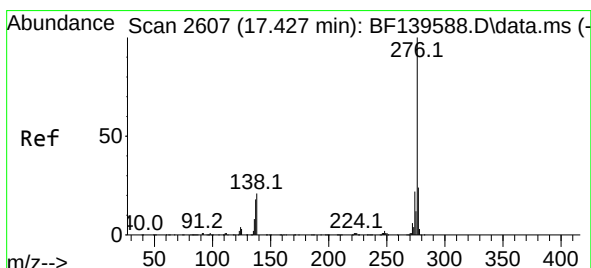
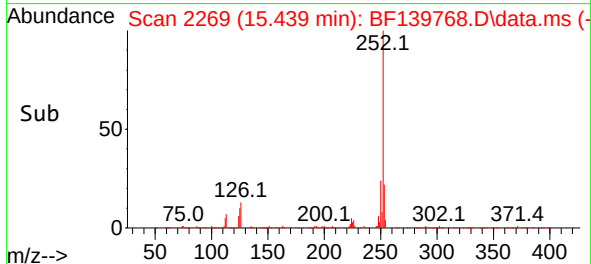
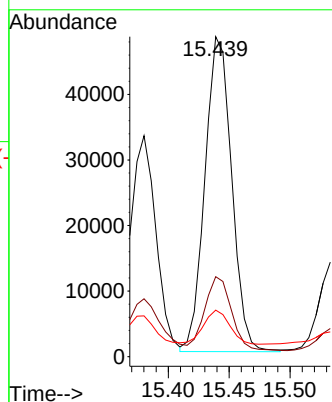
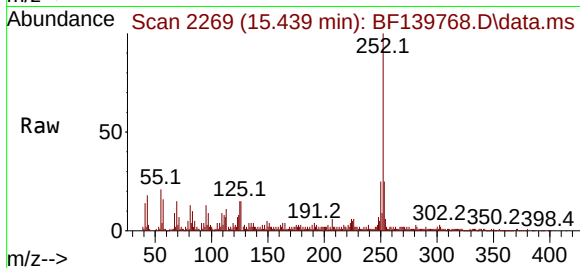
Instrument :

BNA\_F

ClientSampleId :

OR-02-100924

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 73370 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.0  | 17.3  | 25.9  |
| 125       | 14.6  | 8.3   | 12.5  |



#92

Benzo(g,h,i)perylene

Concen: 5.220 ng

RT: 17.427 min Scan# 2607

Delta R.T. -0.000 min

Lab File: BF139768.D

Acq: 11 Oct 2024 11:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 32875 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.7  | 19.0  | 28.6  |
| 138       | 24.0  | 17.0  | 25.6  |

