

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011224\  
 Data File : BF137054.D  
 Acq On : 12 Jan 2024 17:56  
 Operator : CG\JU  
 Sample : P1104-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Quant Time: Jan 12 22:13:53 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

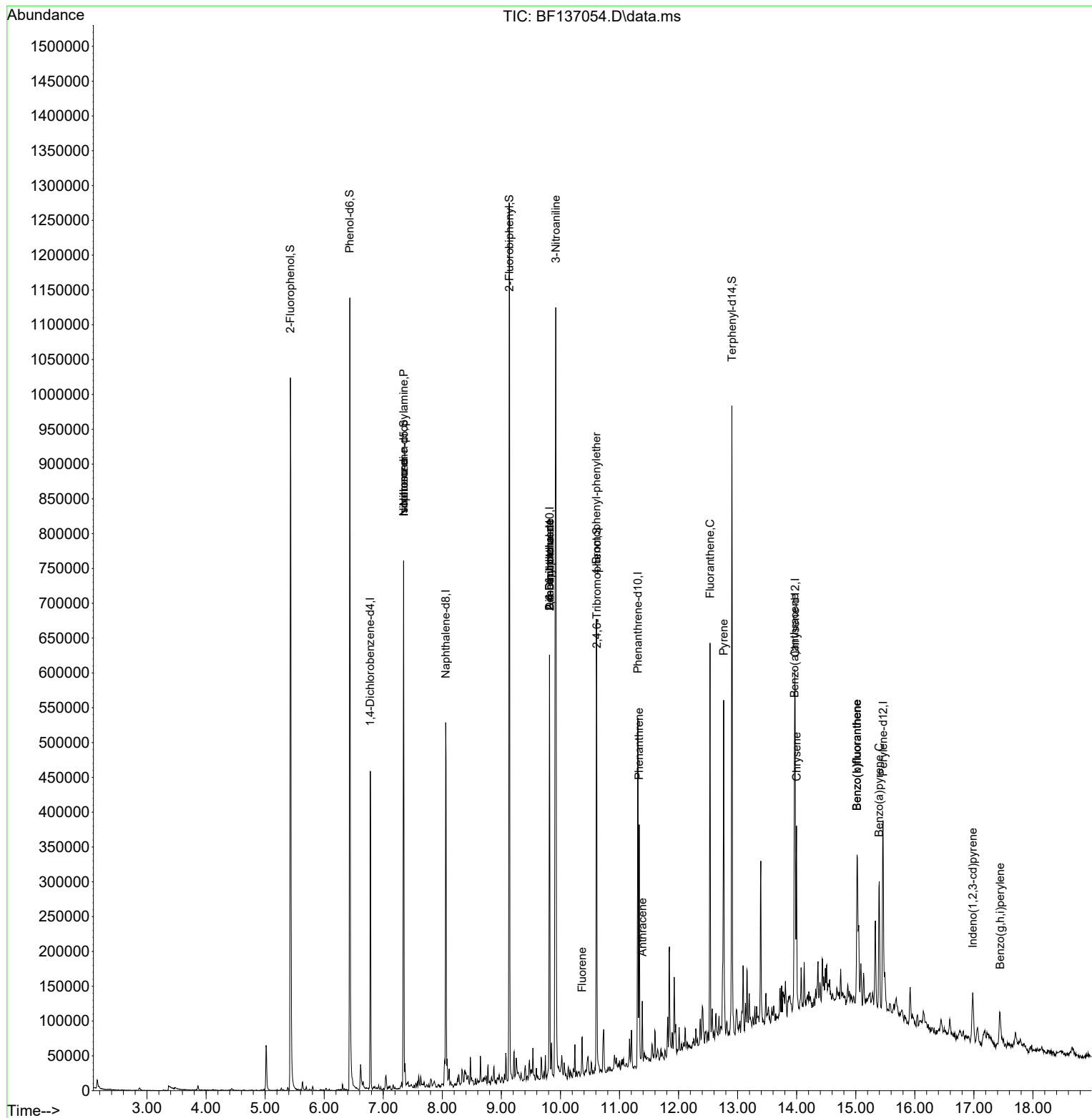
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 63062    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.057  | 136  | 235948   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.816  | 164  | 112363   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.310 | 188  | 172252   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.974 | 240  | 130488   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.463 | 264  | 124559   | 20.000 | ng    | 0.02     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 296712   | 73.413 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 365123   | 69.719 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 216196   | 46.887 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 83560    | 63.144 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.134  | 172  | 407460   | 48.773 | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.904 | 244  | 312339   | 33.450 | ng    | -0.01    |
| Target Compounds              |        |      |          |        |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 28865    | 9.092  | ng    | # 72     |
| 25) Isophorone                | 7.345  | 82   | 216131   | 25.760 | ng    | # 65     |
| 50) Dimethylphthalate         | 9.816  | 163  | 22317    | 2.719  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.816  | 165  | 14825    | 7.959  | ng    | # 32     |
| 53) 3-Nitroaniline            | 9.922  | 138  | 10368    | 5.255  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 9.816  | 165  | 14825    | 6.131  | ng    | # 23     |
| 58) Fluorene                  | 10.369 | 166  | 16681    | 2.042  | ng    | # 96     |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 4548     | 2.377  | ng    | # 1      |
| 71) Phenanthrene              | 11.333 | 178  | 113463   | 12.838 | ng    | 98       |
| 72) Anthracene                | 11.386 | 178  | 30325    | 3.388  | ng    | 97       |
| 75) Fluoranthene              | 12.533 | 202  | 208922   | 22.099 | ng    | 98       |
| 78) Pyrene                    | 12.763 | 202  | 185542   | 14.485 | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.963 | 228  | 109622   | 12.098 | ng    | 97       |
| 83) Chrysene                  | 13.998 | 228  | 104307   | 11.772 | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.980 | 276  | 45534    | 5.063  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.021 | 252  | 173240   | 20.824 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.021 | 252  | 173240   | 22.038 | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.398 | 252  | 88858    | 12.653 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 17.445 | 276  | 41843    | 5.537  | ng    | 95       |

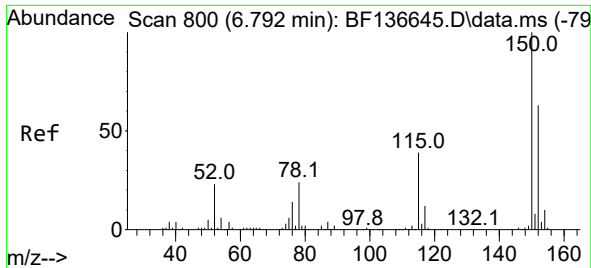
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011224\  
Data File : BF137054.D  
Acq On : 12 Jan 2024 17:56  
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Sample : P1104-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Time: Jan 12 22:13:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration

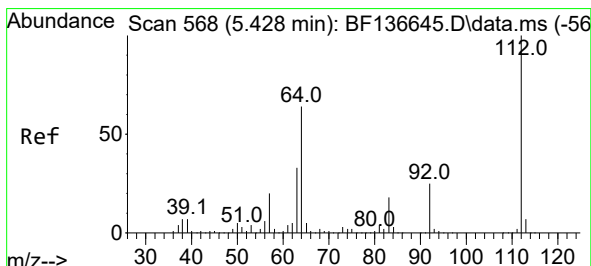
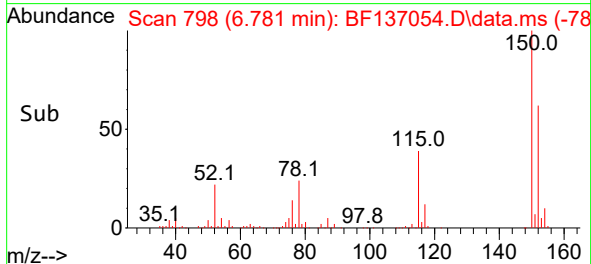
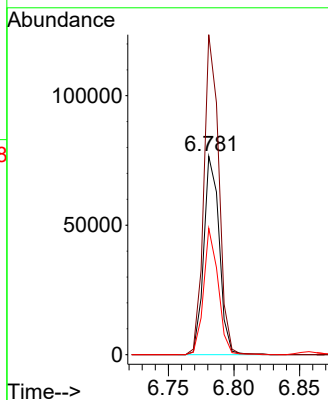
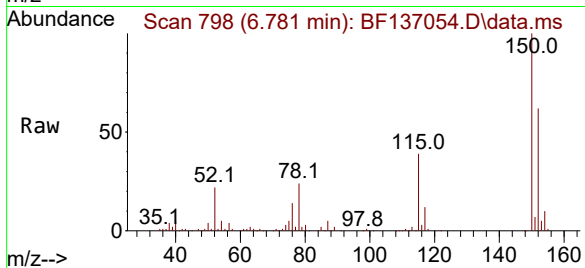




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 79  
Delta R.T. -0.011 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

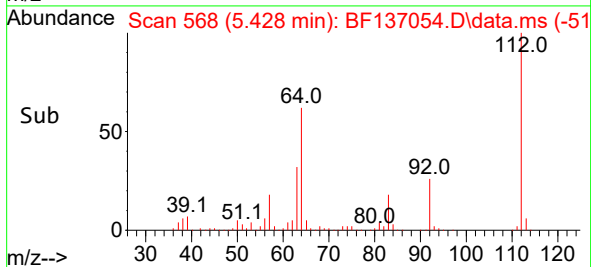
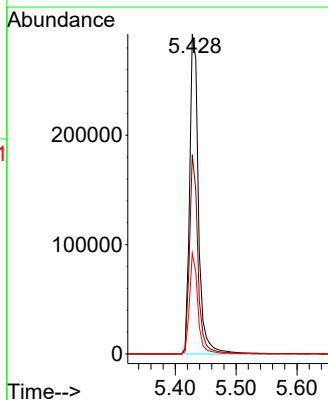
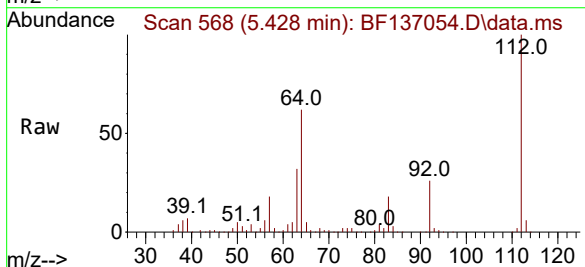
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BNA\_F  
ClientSampleId :  
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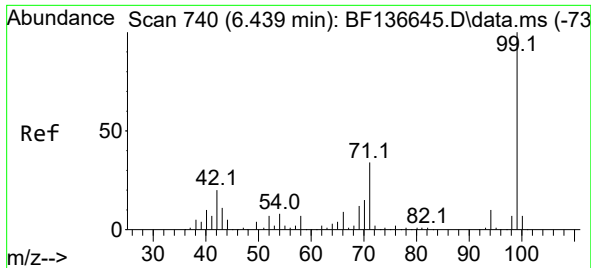
Tgt Ion:152 Resp: 63062  
Ion Ratio Lower Upper  
152 100  
150 161.2 127.0 190.6  
115 63.7 49.0 73.4



#5  
2-Fluorophenol  
Concen: 73.413 ng  
RT: 5.428 min Scan# 568  
Delta R.T. 0.000 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:112 Resp: 296712  
Ion Ratio Lower Upper  
112 100  
64 62.3 51.1 76.7  
63 31.5 26.1 39.1

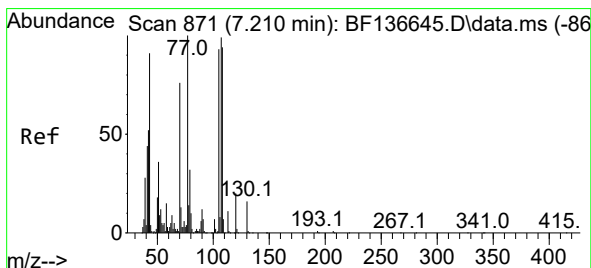
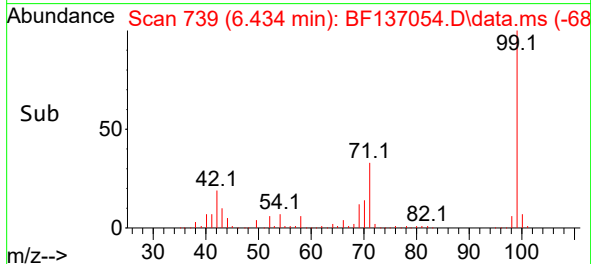
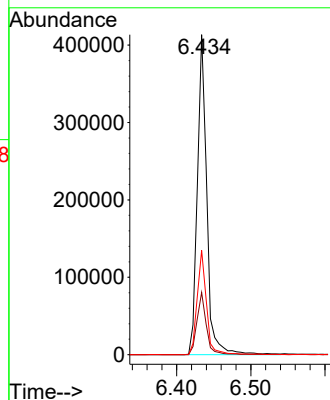
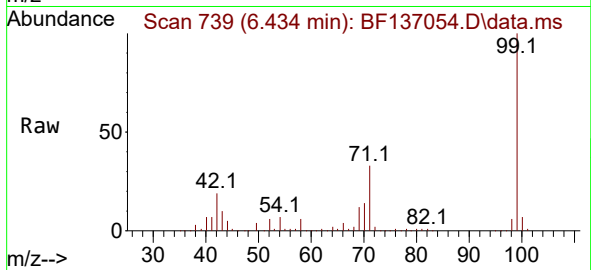




#7  
Phenol-d6  
Concen: 69.719 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

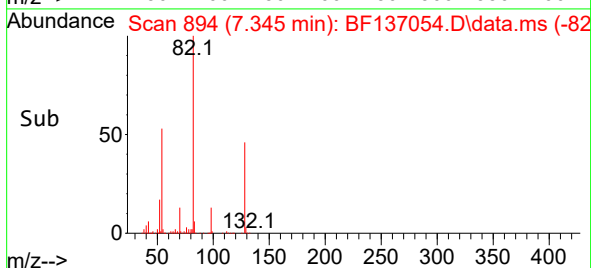
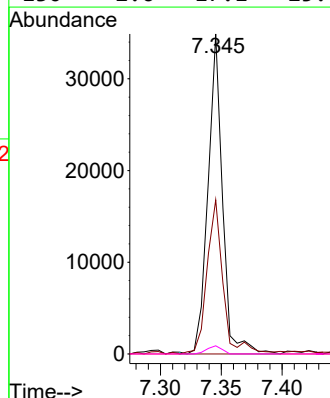
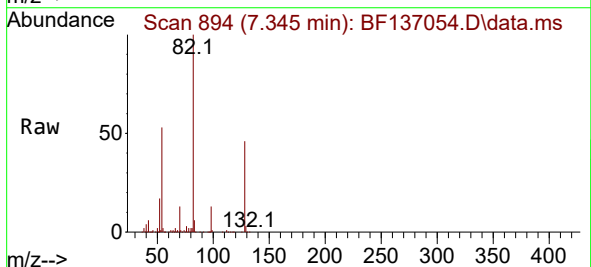
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Tgt Ion: 99 Resp: 365123  
Ion Ratio Lower Upper  
99 100  
42 19.4 16.1 24.1  
71 32.6 27.4 41.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 9.092 ng  
RT: 7.345 min Scan# 894  
Delta R.T. 0.135 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion: 70 Resp: 28865  
Ion Ratio Lower Upper  
70 100  
42 48.2 54.2 81.4#  
101 0.0 7.6 11.4#  
130 2.6 17.1 25.7#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.057 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

Instrument :

BNA\_F

ClientSampleId :

TP-1

Tgt Ion:136 Resp: 235948

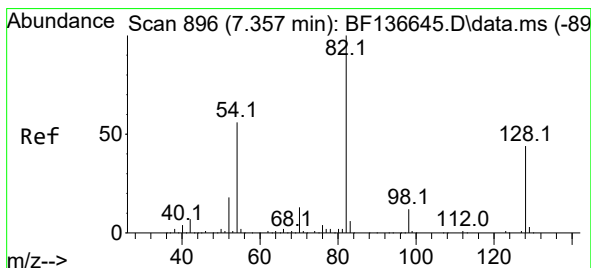
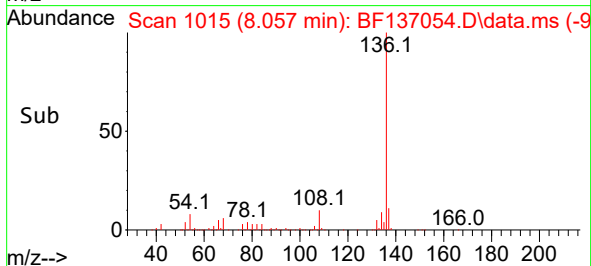
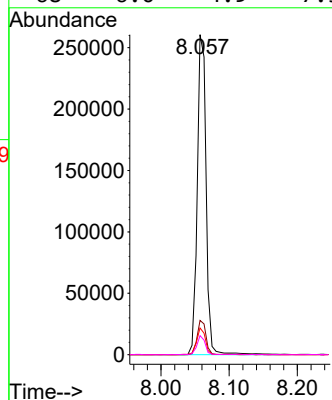
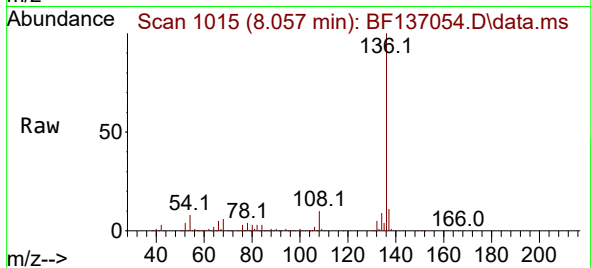
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.4

54 8.4 7.2 10.8

68 6.0 4.9 7.3



#23

Nitrobenzene-d5

Concen: 46.887 ng

RT: 7.345 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

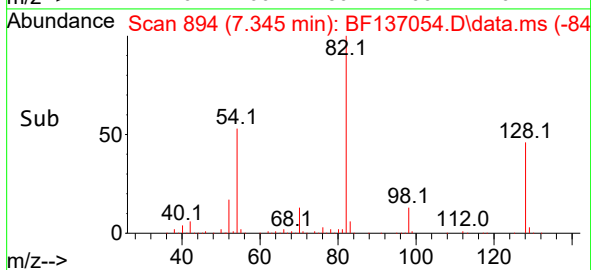
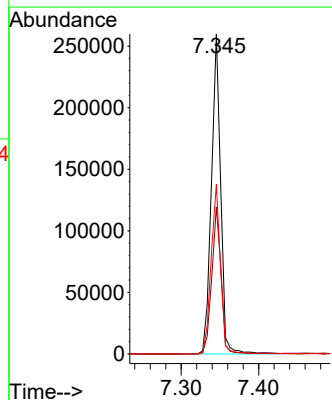
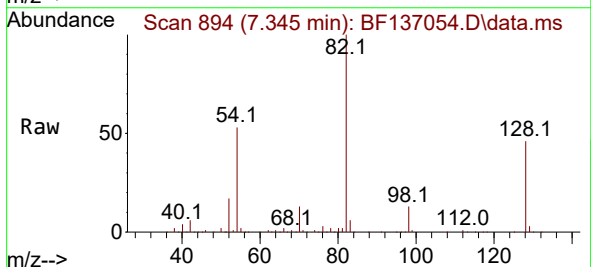
Tgt Ion: 82 Resp: 216196

Ion Ratio Lower Upper

82 100

128 45.9 35.3 52.9

54 53.0 44.5 66.7

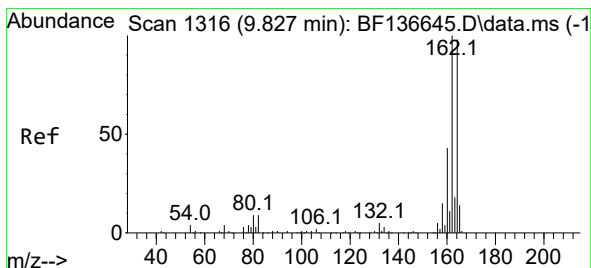
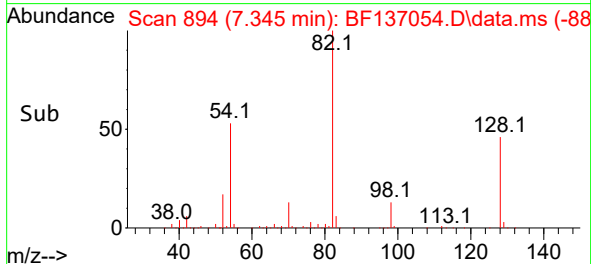
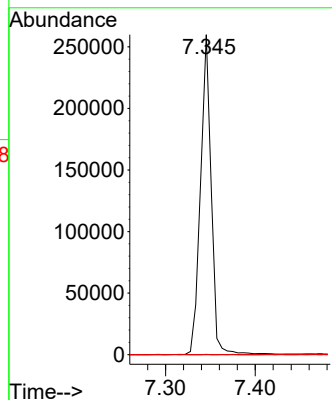
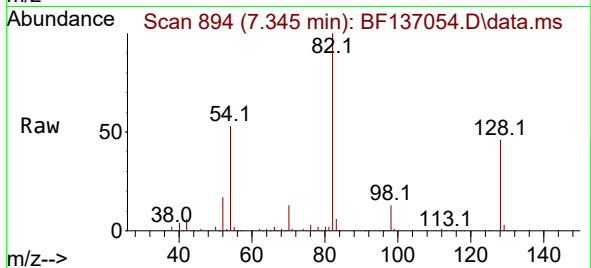




#25  
Isophorone  
Concen: 25.760 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.270 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

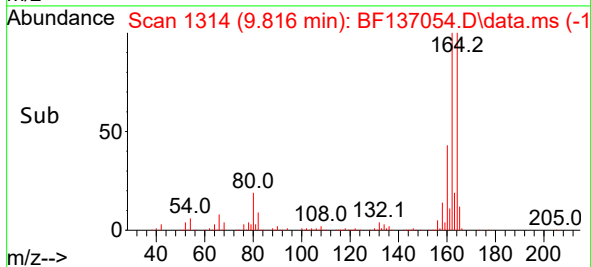
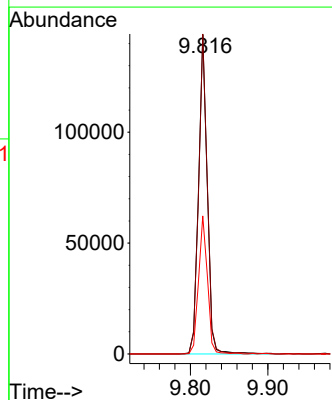
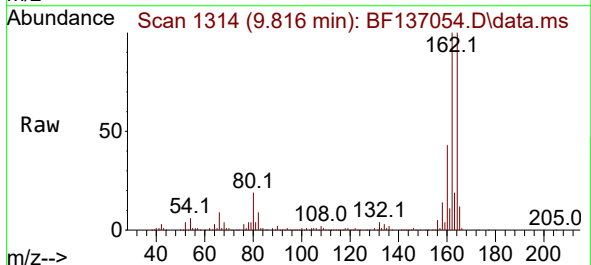
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Tgt Ion: 82 Resp: 216131  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.5 8.3#  
138 0.0 14.5 21.7#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.012 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:164 Resp: 112363  
Ion Ratio Lower Upper  
164 100  
162 100.2 81.6 122.4  
160 43.2 34.9 52.3





#42

2,4,6-Tribromophenol

Concen: 63.144 ng

RT: 10.616 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

Instrument :

BNA\_F

ClientSampleId :

TP-1

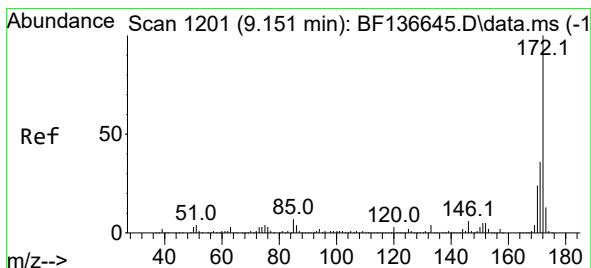
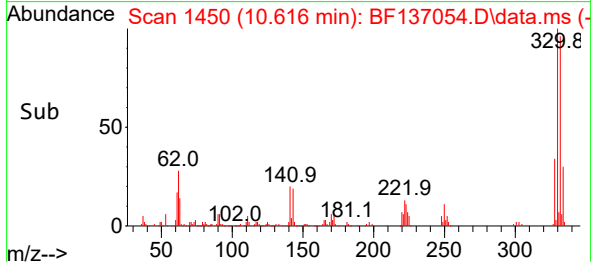
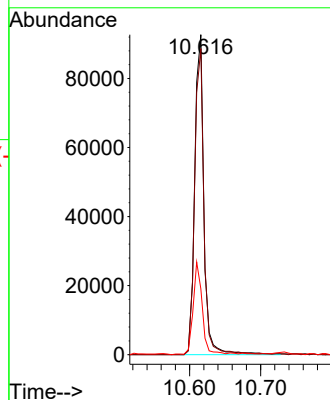
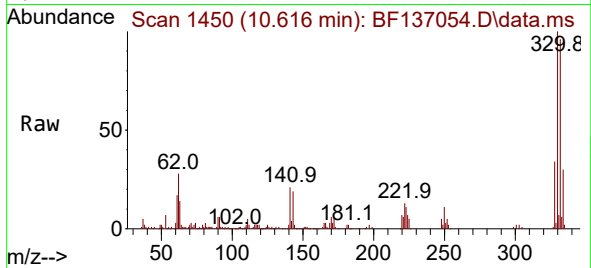
Tgt Ion:330 Resp: 83560

Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.0

141 28.5 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 48.773 ng

RT: 9.134 min Scan# 1198

Delta R.T. -0.017 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

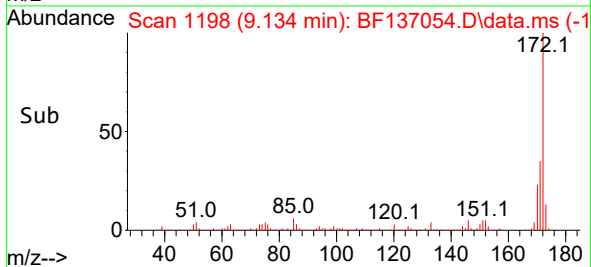
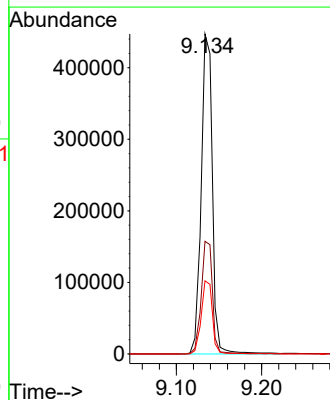
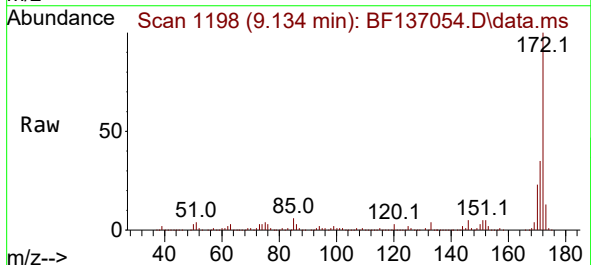
Tgt Ion:172 Resp: 407460

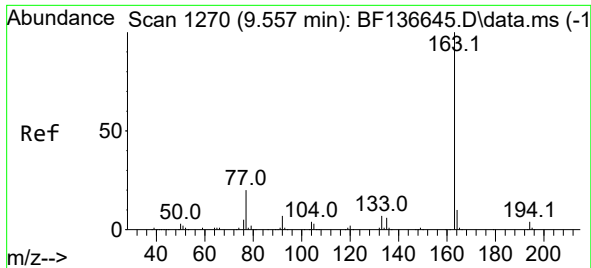
Ion Ratio Lower Upper

172 100

171 35.2 29.0 43.6

170 22.9 19.0 28.4

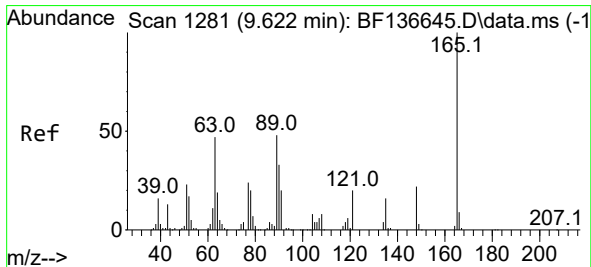
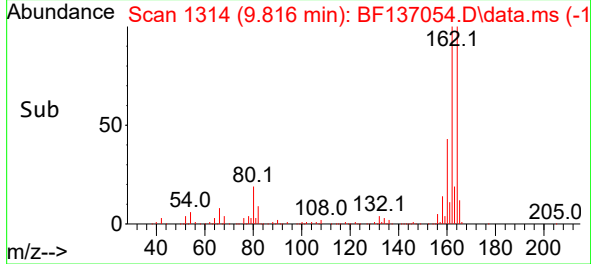
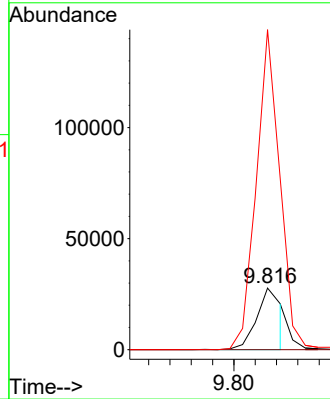
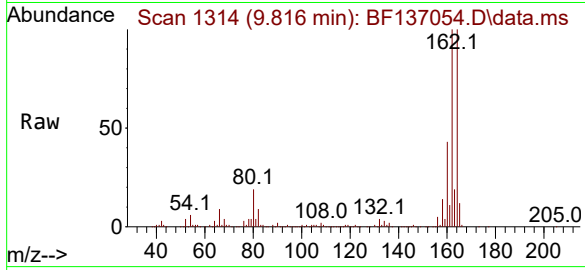




#50  
Dimethylphthalate  
Concen: 2.719 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.259 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

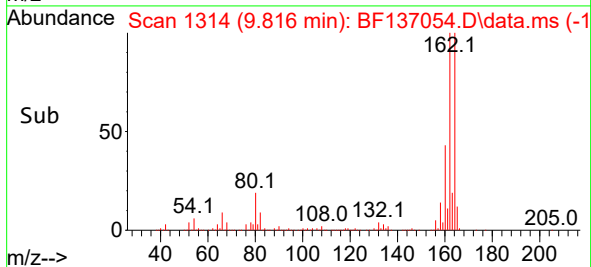
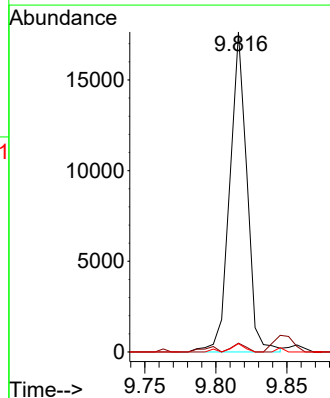
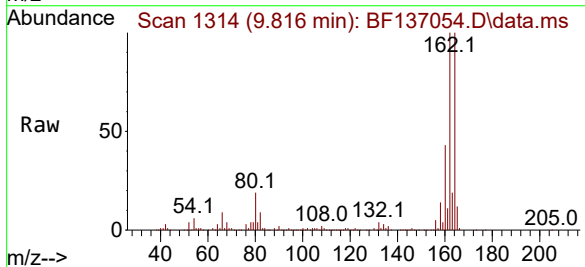
Instrument :  
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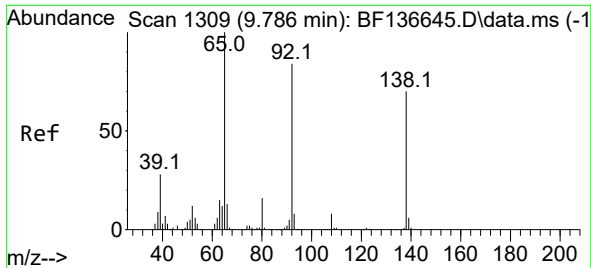
Tgt Ion:163 Resp: 22317  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 519.1 7.8 11.6#



#51  
2,6-Dinitrotoluene  
Concen: 7.959 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.194 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:165 Resp: 14825  
Ion Ratio Lower Upper  
165 100  
63 2.7 39.8 59.6#  
89 2.6 38.8 58.2#

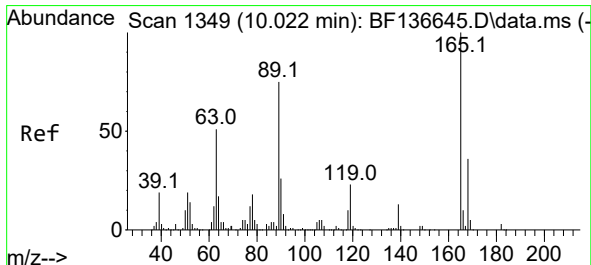
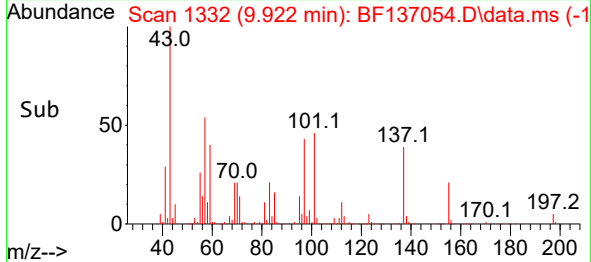
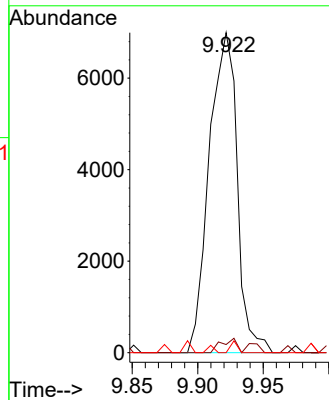
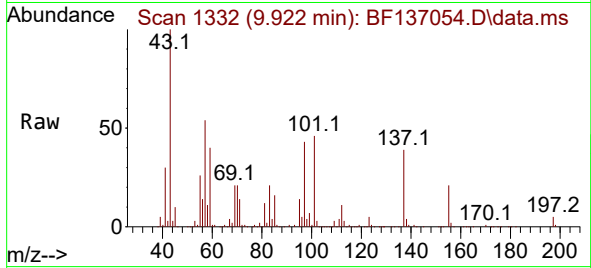




#53  
3-Nitroaniline  
Concen: 5.255 ng  
RT: 9.922 min Scan# 11  
Delta R.T. 0.135 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

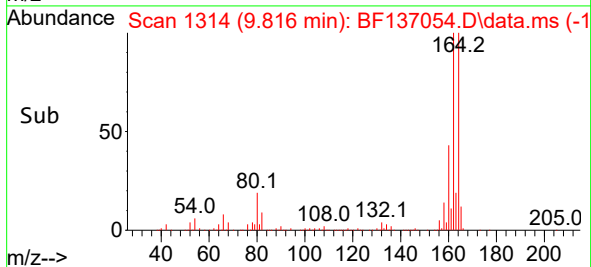
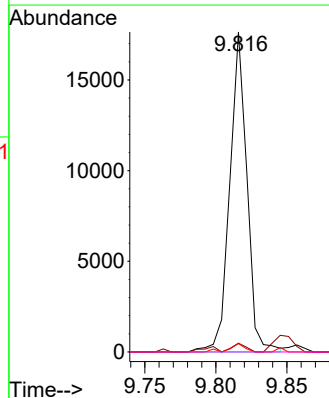
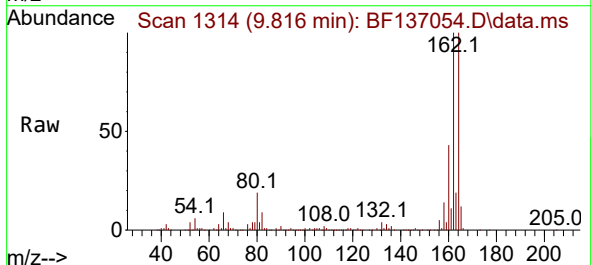
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BNA\_F  
ClientSampleId :  
TP-1

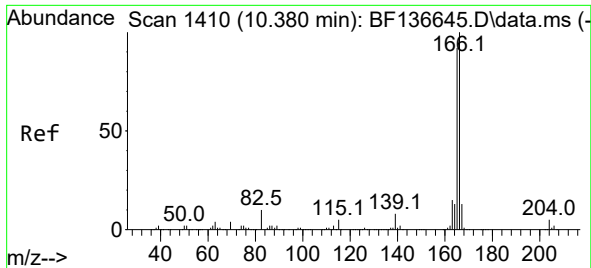
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Ion Ratio Lower Upper  
138 100  
108 2.5 8.6 12.8#  
92 0.0 95.2 142.8#



#57  
2,4-Dinitrotoluene  
Concen: 6.131 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.206 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:165 Resp: 14825  
Ion Ratio Lower Upper  
165 100  
63 2.7 41.0 61.6#  
89 2.6 59.9 89.9#  
182 0.0 2.0 3.0#

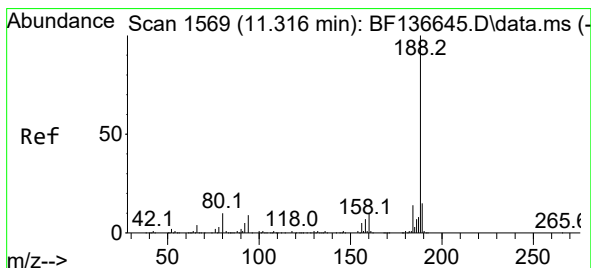
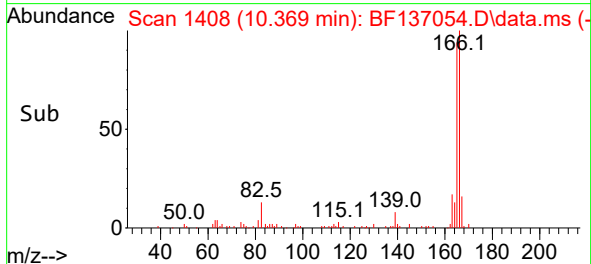
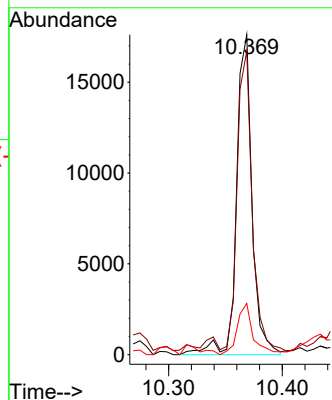
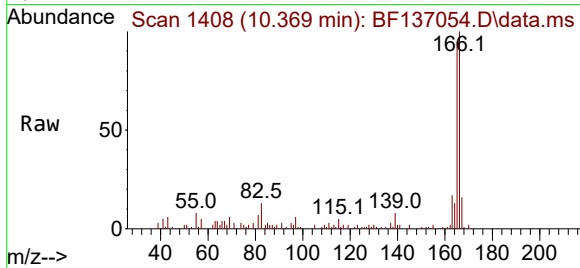




#58  
Fluorene  
Concen: 2.042 ng  
RT: 10.369 min Scan# 1410  
Delta R.T. -0.012 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

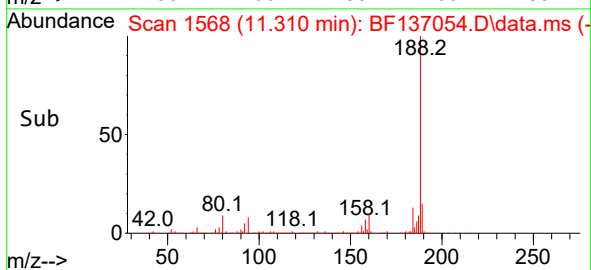
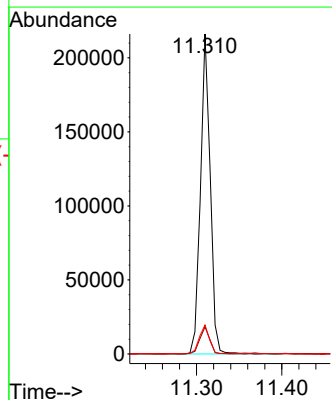
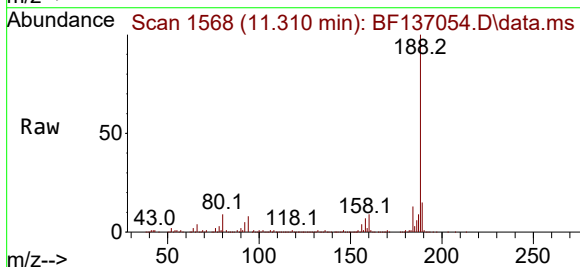
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

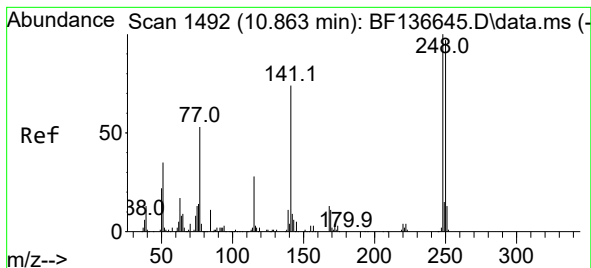
Tgt Ion:166 Resp: 16681  
Ion Ratio Lower Upper  
166 100  
165 94.9 73.7 110.5  
167 16.0 10.4 15.6#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:188 Resp: 172252  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.5 11.3  
80 9.1 8.1 12.1

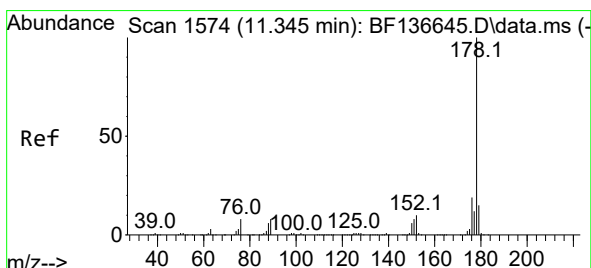
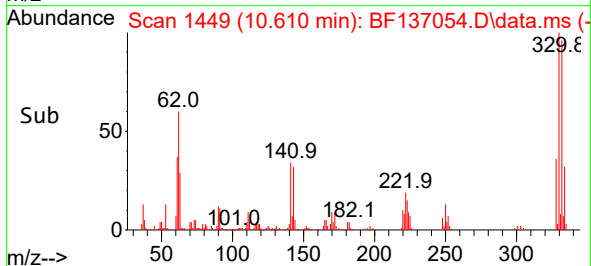
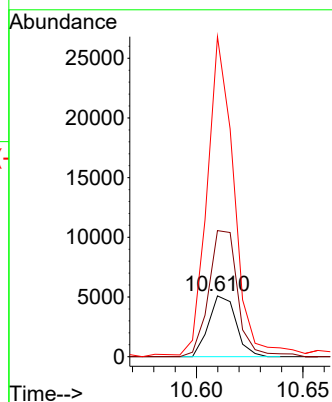
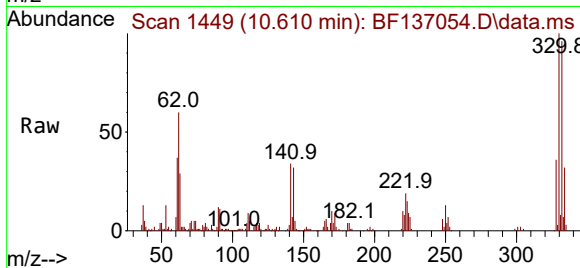




#67  
4-Bromophenyl-phenylether  
Concen: 2.377 ng  
RT: 10.610 min Scan# 1492  
Delta R.T. -0.253 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

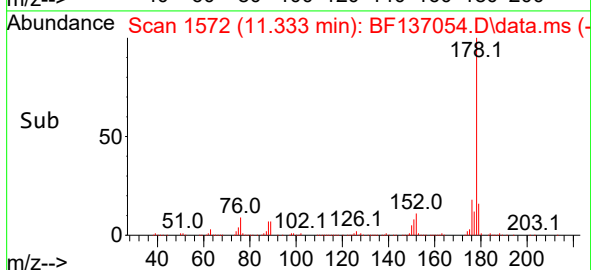
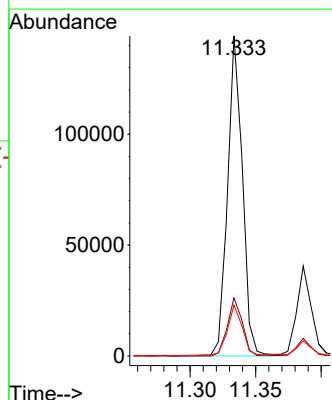
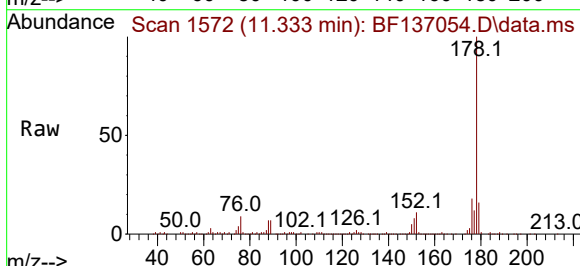
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

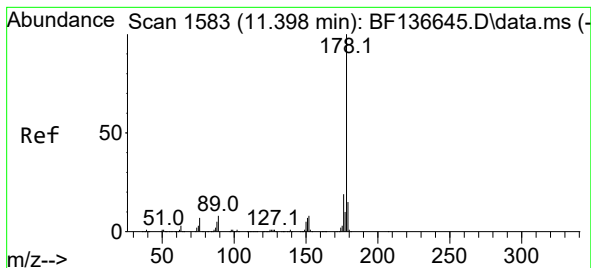
Tgt Ion:248 Resp: 4548  
Ion Ratio Lower Upper  
248 100  
250 207.5 77.8 116.6#  
141 526.7 59.2 88.8#



#71  
Phenanthrene  
Concen: 12.838 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:178 Resp: 113463  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.3 22.9  
179 15.9 11.9 17.9





#72

Anthracene

Concen: 3.388 ng

RT: 11.386 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

Instrument :

BNA\_F

ClientSampleId :

TP-1

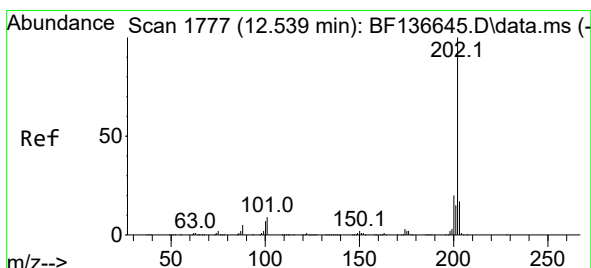
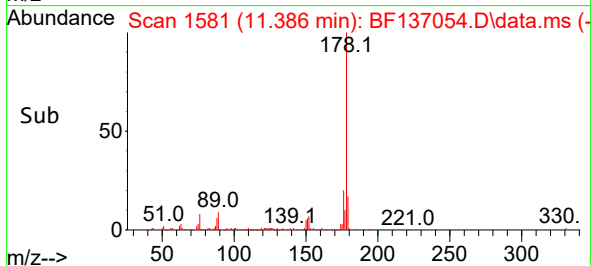
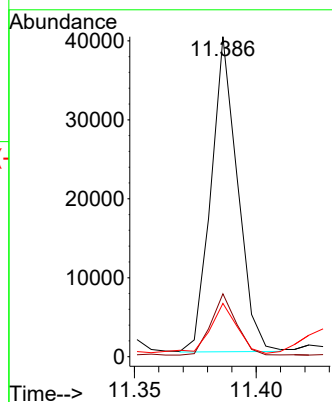
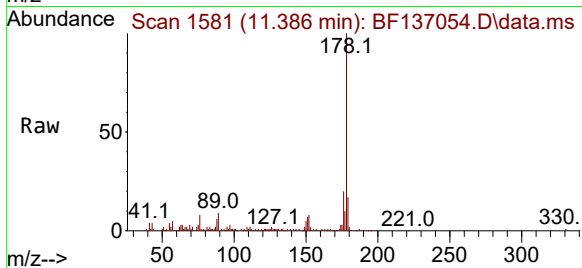
Tgt Ion:178 Resp: 30325

Ion Ratio Lower Upper

178 100

176 19.7 14.9 22.3

179 16.7 11.8 17.6



#75

Fluoranthene

Concen: 22.099 ng

RT: 12.533 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

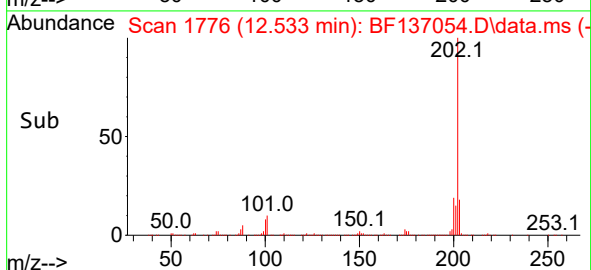
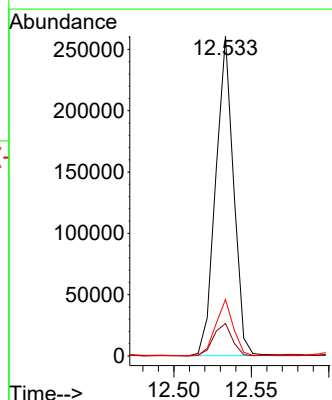
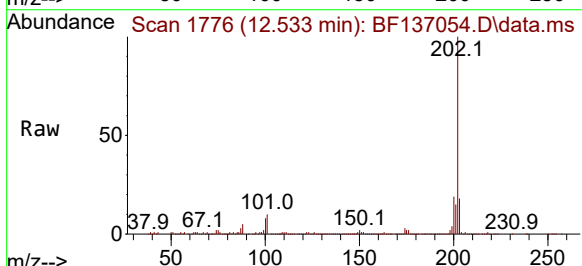
Tgt Ion:202 Resp: 208922

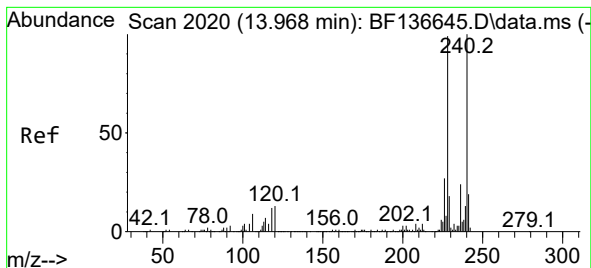
Ion Ratio Lower Upper

202 100

101 10.2 0.0 29.3

203 17.7 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

Instrument :

BNA\_F

ClientSampleId :

TP-1

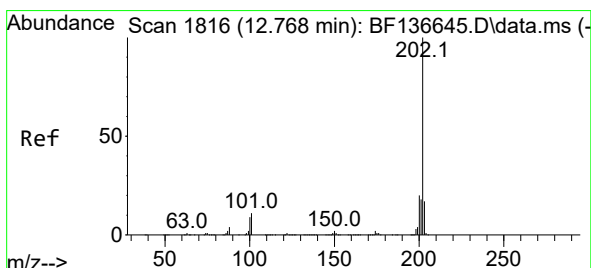
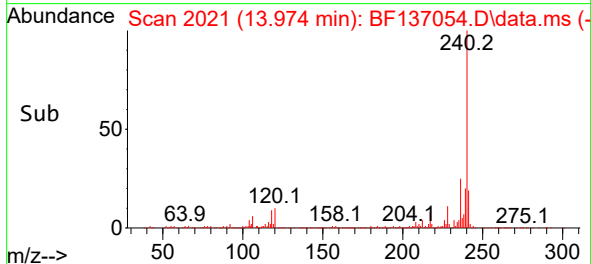
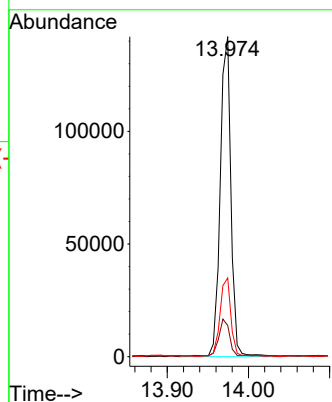
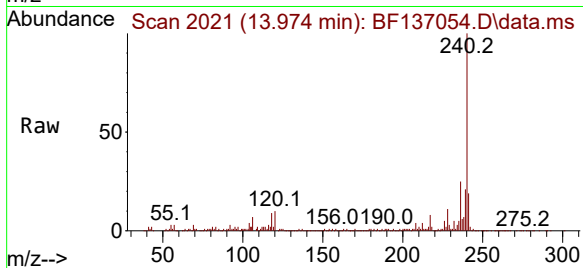
Tgt Ion:240 Resp: 130488

Ion Ratio Lower Upper

240 100

120 9.7 10.3 15.5#

236 24.6 19.4 29.2



#78

Pyrene

Concen: 14.485 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

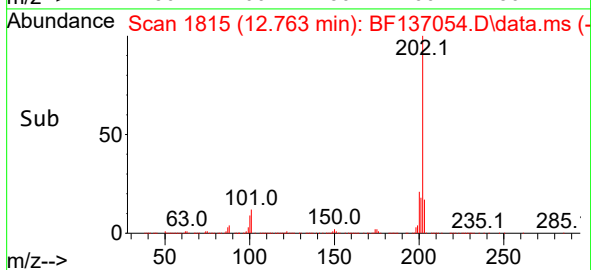
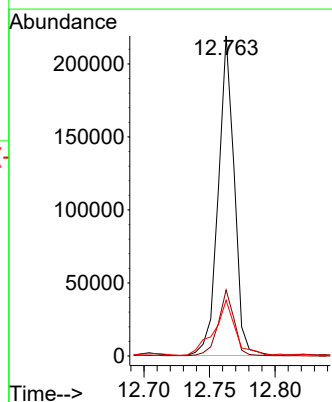
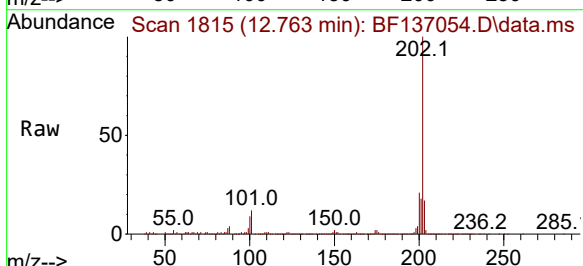
Tgt Ion:202 Resp: 185542

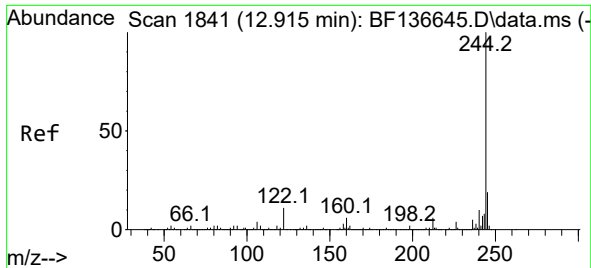
Ion Ratio Lower Upper

202 100

200 20.7 15.9 23.9

203 17.4 13.8 20.6

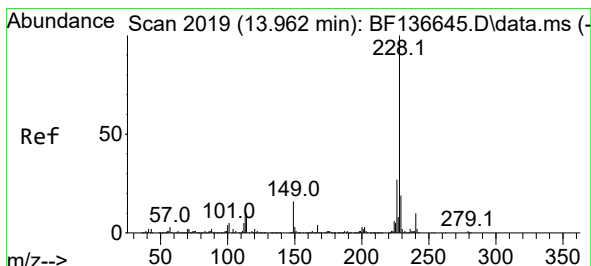
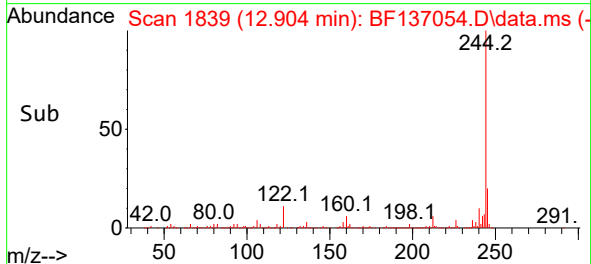
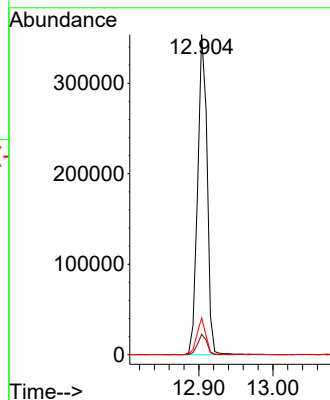
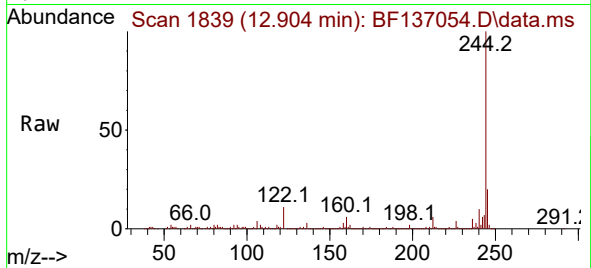




#79  
 Terphenyl-d14  
 Concen: 33.450 ng  
 RT: 12.904 min Scan# 1839  
 Delta R.T. -0.012 min  
 Lab File: BF137054.D  
 Acq: 12 Jan 2024 17:56

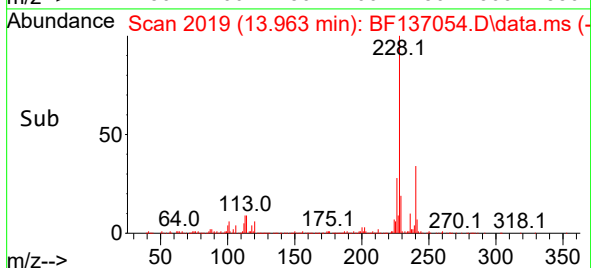
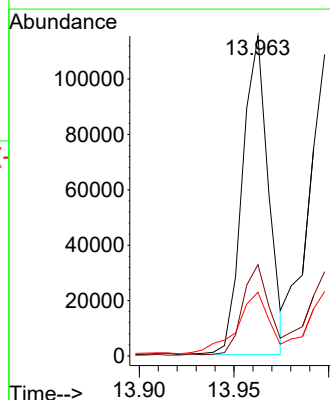
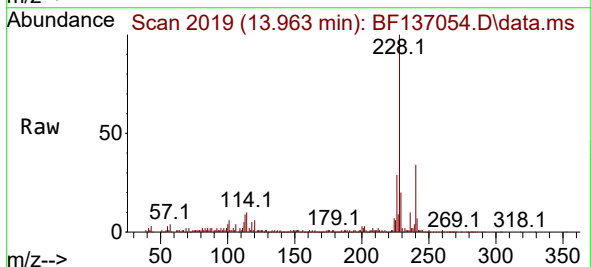
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

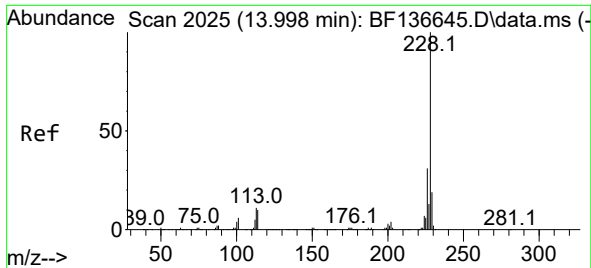
Tgt Ion:244 Resp: 312339  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.0 7.4  
 122 11.5 9.0 13.4



#81  
 Benzo(a)anthracene  
 Concen: 12.098 ng  
 RT: 13.963 min Scan# 2019  
 Delta R.T. 0.000 min  
 Lab File: BF137054.D  
 Acq: 12 Jan 2024 17:56

Tgt Ion:228 Resp: 109622  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 21.4 32.0  
 229 19.9 14.9 22.3

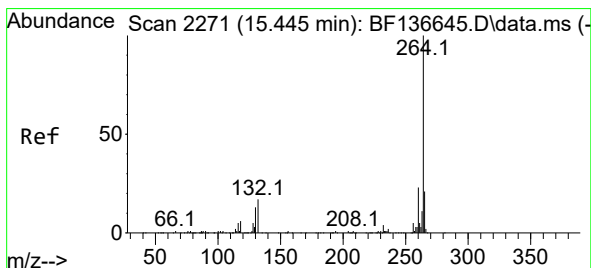
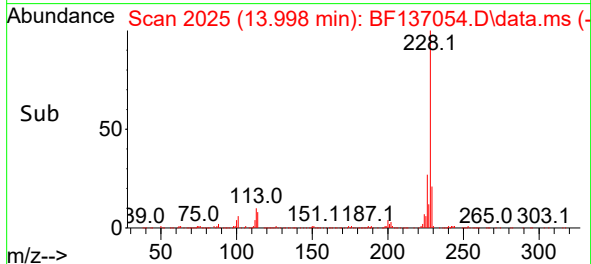
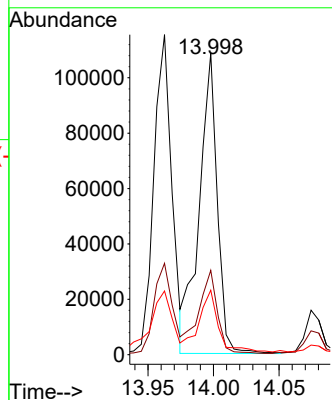
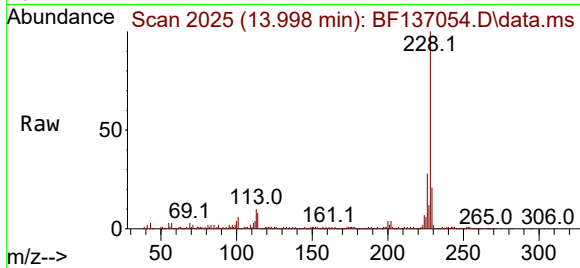




#83  
Chrysene  
Concen: 11.772 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.000 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

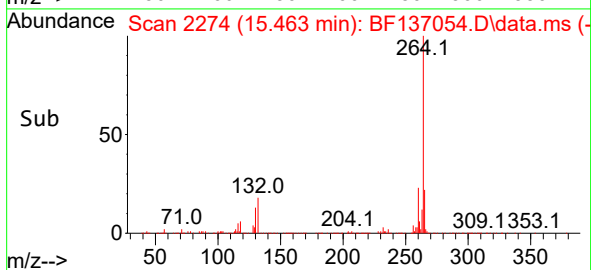
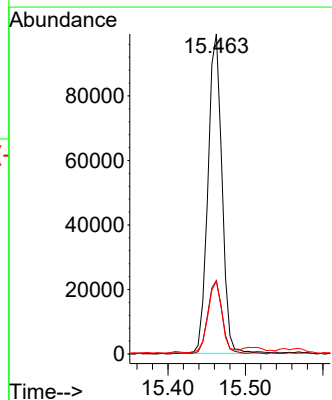
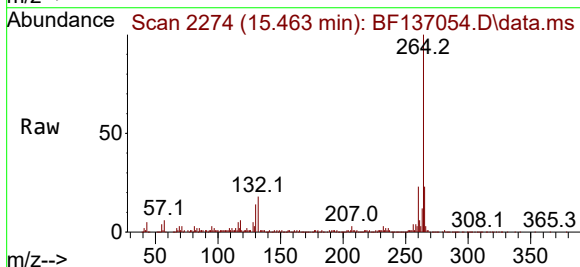
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

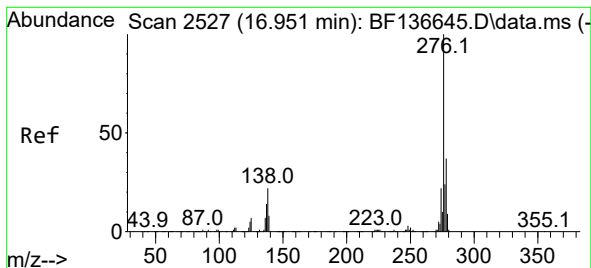
Tgt Ion:228 Resp: 104307  
Ion Ratio Lower Upper  
228 100  
226 28.0 24.7 37.1  
229 21.4 15.4 23.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.463 min Scan# 2274  
Delta R.T. 0.018 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:264 Resp: 124559  
Ion Ratio Lower Upper  
264 100  
260 23.0 18.3 27.5  
265 22.7 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.063 ng

RT: 16.980 min Scan# 2199

Delta R.T. 0.030 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

Instrument :

BNA\_F

ClientSampleId :

TP-1

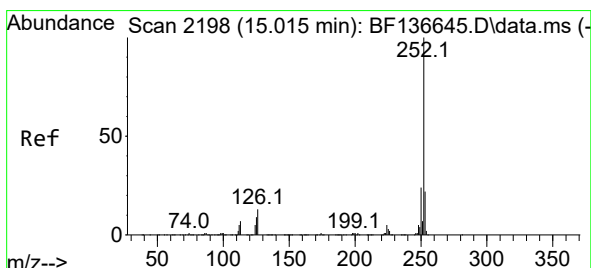
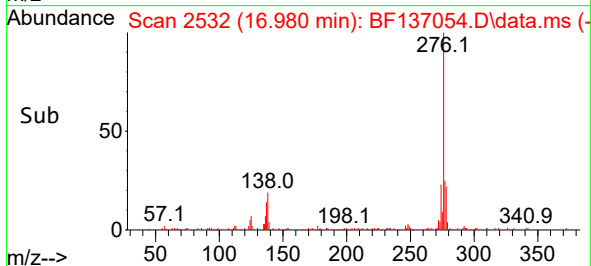
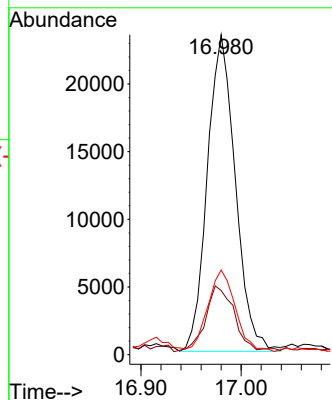
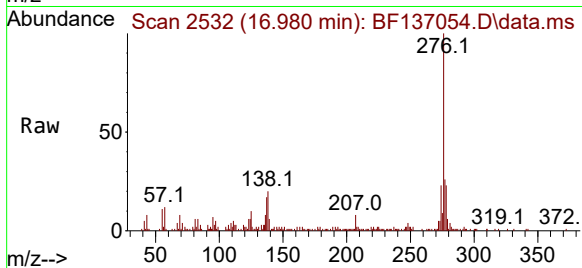
Tgt Ion:276 Resp: 45534

Ion Ratio Lower Upper

276 100

138 20.0 18.7 28.1

277 25.2 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 20.824 ng

RT: 15.021 min Scan# 2199

Delta R.T. 0.006 min

Lab File: BF137054.D

Acq: 12 Jan 2024 17:56

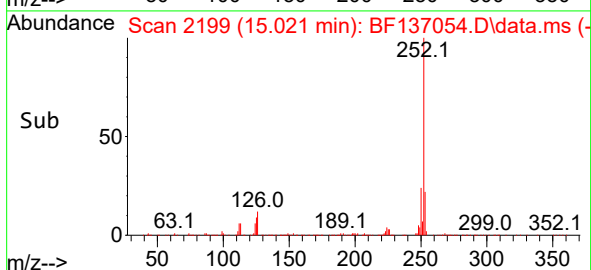
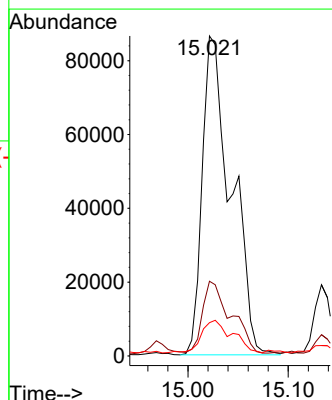
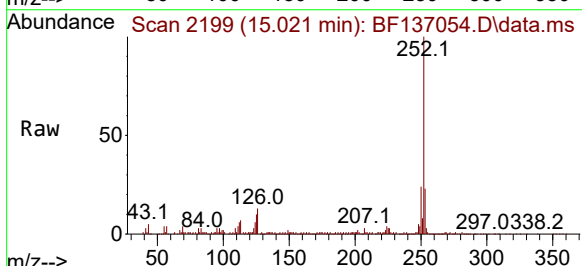
Tgt Ion:252 Resp: 173240

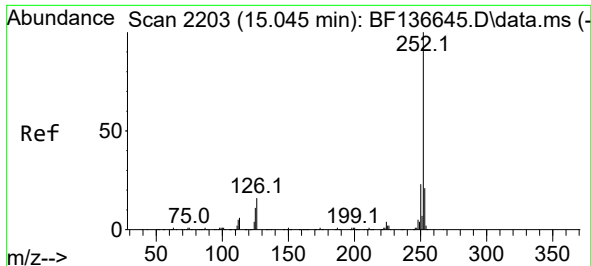
Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 10.4 7.4 11.2

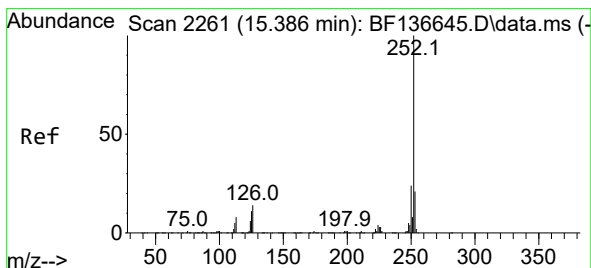
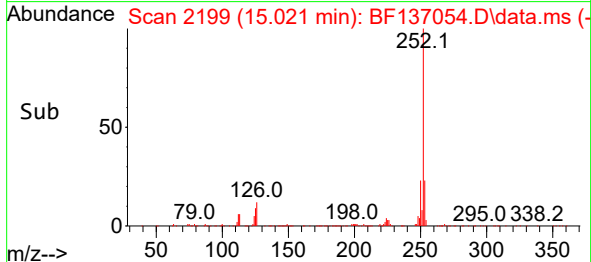
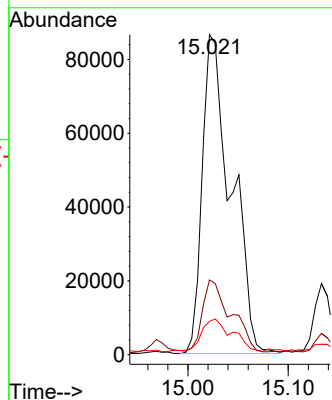
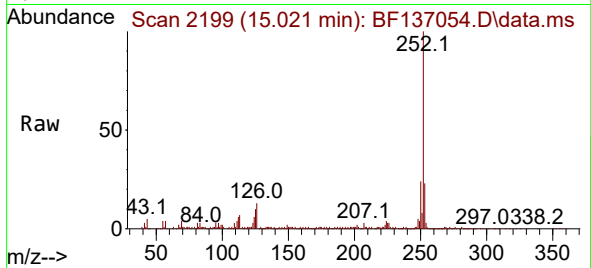




#89  
Benzo(k)fluoranthene  
Concen: 22.038 ng  
RT: 15.021 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

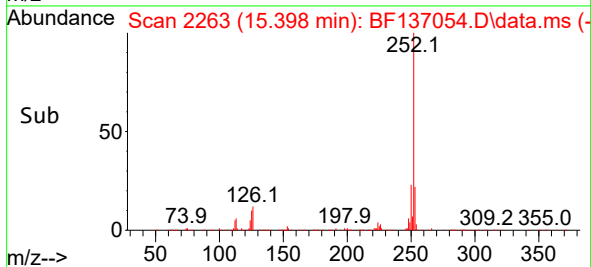
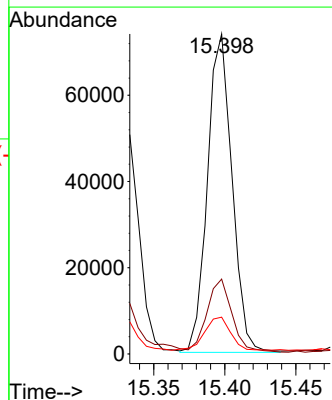
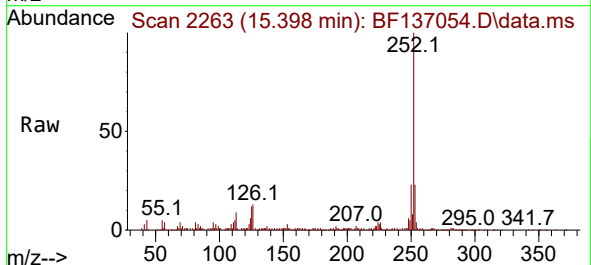
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

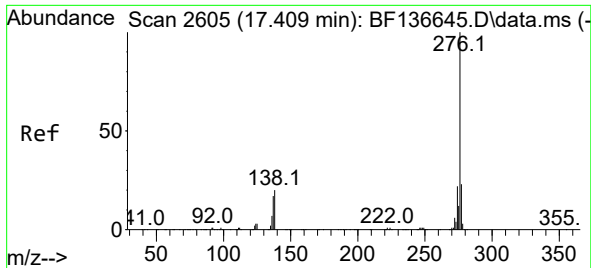
Tgt Ion:252 Resp: 173240  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.0 25.6  
125 10.4 8.2 12.4



#90  
Benzo(a)pyrene  
Concen: 12.653 ng  
RT: 15.398 min Scan# 2263  
Delta R.T. 0.012 min  
Lab File: BF137054.D  
Acq: 12 Jan 2024 17:56

Tgt Ion:252 Resp: 88858  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.0 25.6  
125 11.5 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 5.537 ng  
 RT: 17.445 min Scan# 20  
 Delta R.T. 0.035 min  
 Lab File: BF137054.D  
 Acq: 12 Jan 2024 17:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Tgt Ion:276 Resp: 41843  
 Ion Ratio Lower Upper  
 276 100  
 277 25.2 18.3 27.5  
 138 17.5 15.6 23.4

