

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011124\  
 Data File : BF137040.D  
 Acq On : 11 Jan 2024 15:48  
 Operator : CG\JU  
 Sample : P1097-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-G

Quant Time: Jan 11 16:26:15 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

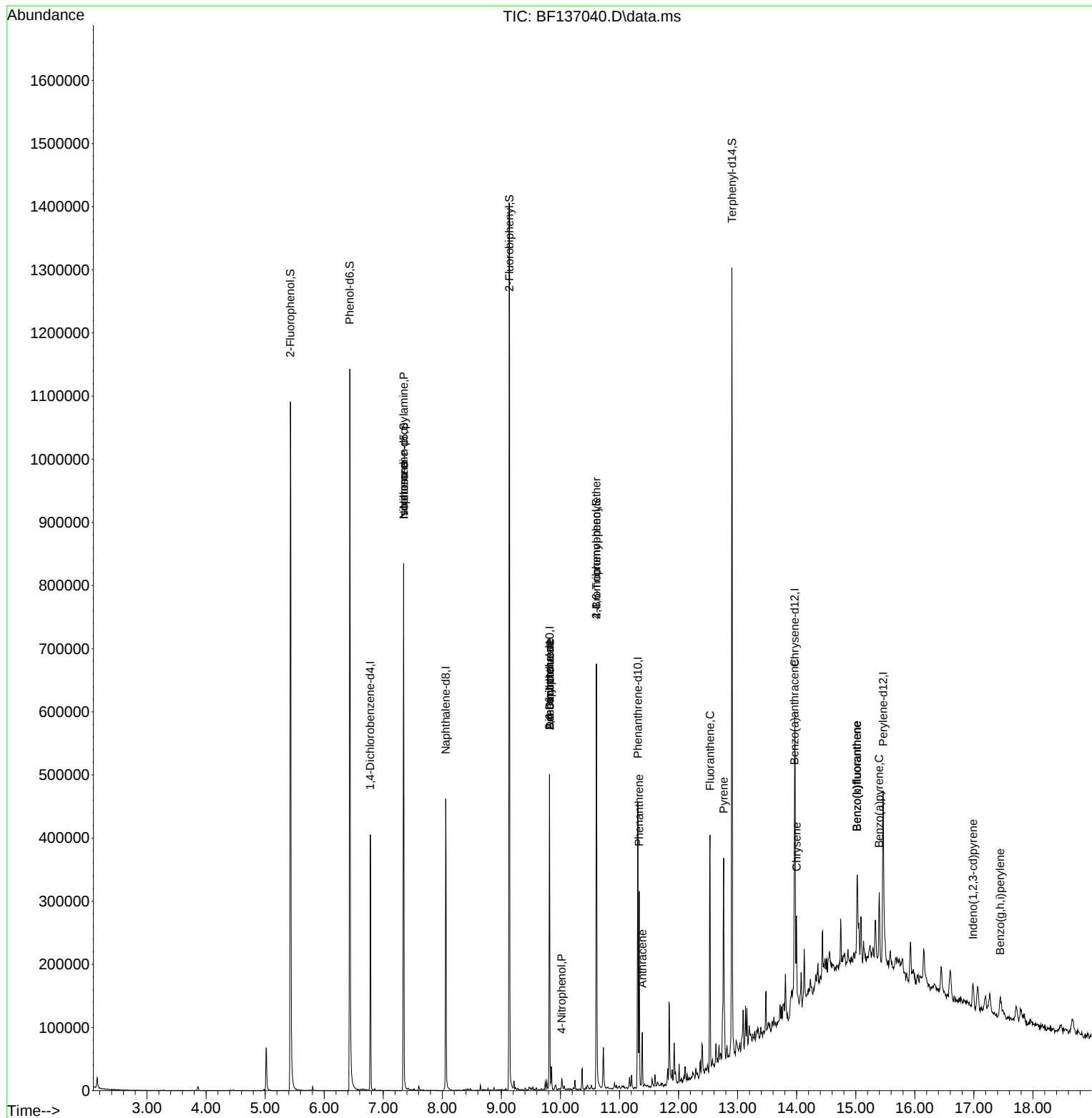
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 57204    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.057  | 136  | 202858   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.816  | 164  | 90779    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.310 | 188  | 153852   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.968 | 240  | 140643   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.462 | 264  | 124629   | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 318922   | 86.989 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 391833   | 82.481 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 235684   | 59.451 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.610 | 330  | 86574    | 80.977 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.133  | 172  | 441806   | 65.458 | ng    | -0.02    |
| 79) Terphenyl-d14             | 12.904 | 244  | 429842   | 42.710 | ng    | -0.01    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 29131    | 10.116 | ng    | # 77     |
| 25) Isophorone                | 7.345  | 82   | 235681   | 32.672 | ng    | # 65     |
| 50) Dimethylphthalate         | 9.816  | 163  | 17326    | 2.613  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.816  | 165  | 11016    | 7.320  | ng    | # 29     |
| 56) 4-Nitrophenol             | 10.022 | 139  | 2542     | 2.362  | ng    | # 7      |
| 57) 2,4-Dinitrotoluene        | 9.816  | 165  | 11016    | 5.639  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 5055     | 2.958  | ng    | # 1      |
| 71) Phenanthrene              | 11.333 | 178  | 99525    | 12.607 | ng    | 100      |
| 72) Anthracene                | 11.386 | 178  | 31548    | 3.946  | ng    | 99       |
| 75) Fluoranthene              | 12.533 | 202  | 155840   | 18.455 | ng    | 100      |
| 78) Pyrene                    | 12.763 | 202  | 130329   | 9.440  | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.963 | 228  | 66021    | 6.760  | ng    | 96       |
| 83) Chrysene                  | 13.998 | 228  | 58795    | 6.156  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.986 | 276  | 26000    | 2.889  | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.021 | 252  | 100071   | 12.022 | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 15.021 | 252  | 100071   | 12.723 | ng    | # 92     |
| 90) Benzo(a)pyrene            | 15.398 | 252  | 51651    | 7.351  | ng    | # 98     |
| 92) Benzo(g,h,i)perylene      | 17.445 | 276  | 23911    | 3.162  | ng    | # 93     |
| -----                         |        |      |          |        |       |          |

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

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Sample : P1097-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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MH-G

Quant Time: Jan 11 16:26:15 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

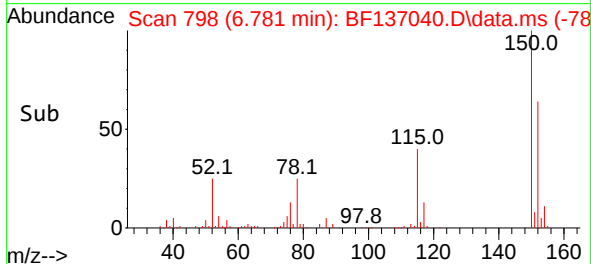
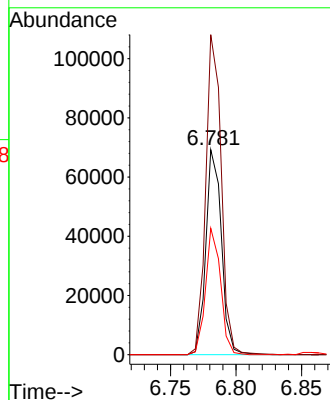
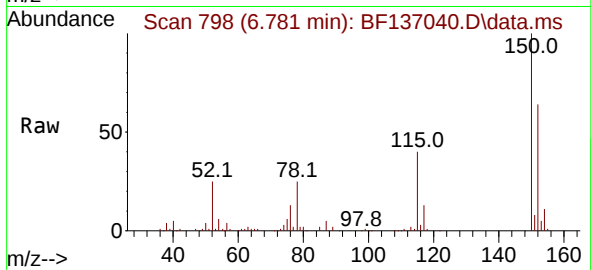




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.781 min Scan# 79  
 Delta R.T. -0.011 min  
 Lab File: BF137040.D  
 Acq: 11 Jan 2024 15:48

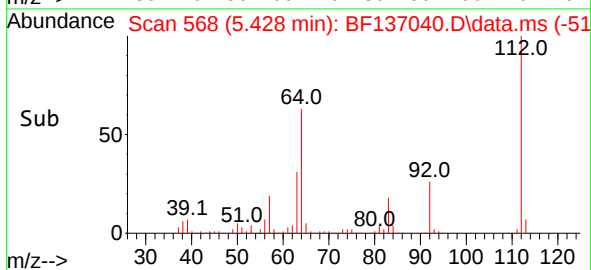
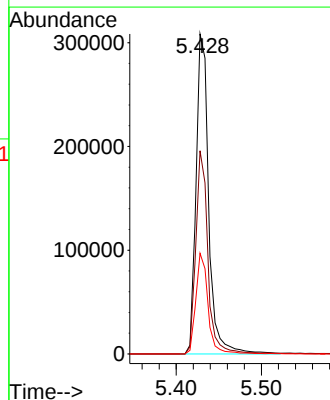
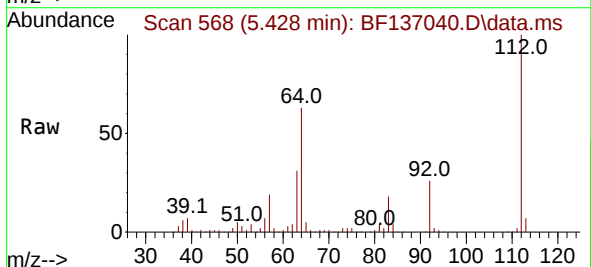
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-G

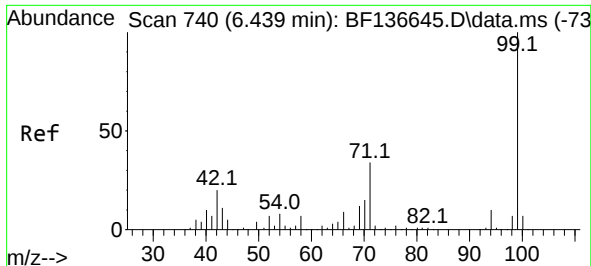
Tgt Ion:152 Resp: 57204  
 Ion Ratio Lower Upper  
 152 100  
 150 156.1 127.0 190.6  
 115 61.7 49.0 73.4



#5  
 2-Fluorophenol  
 Concen: 86.989 ng  
 RT: 5.428 min Scan# 568  
 Delta R.T. 0.000 min  
 Lab File: BF137040.D  
 Acq: 11 Jan 2024 15:48

Tgt Ion:112 Resp: 318922  
 Ion Ratio Lower Upper  
 112 100  
 64 63.5 51.1 76.7  
 63 31.4 26.1 39.1

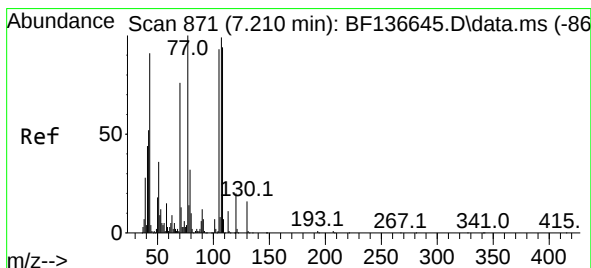
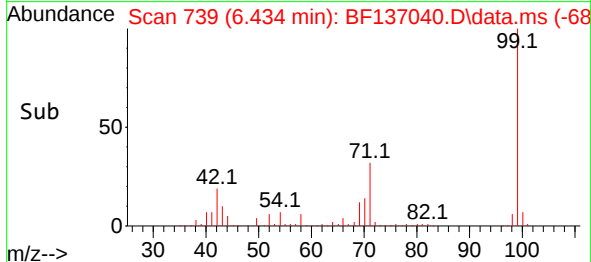
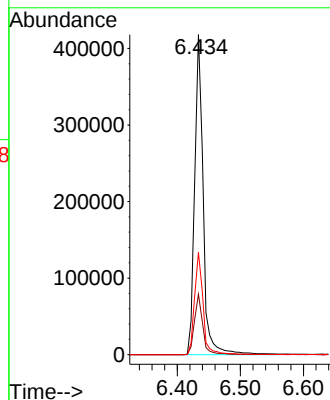
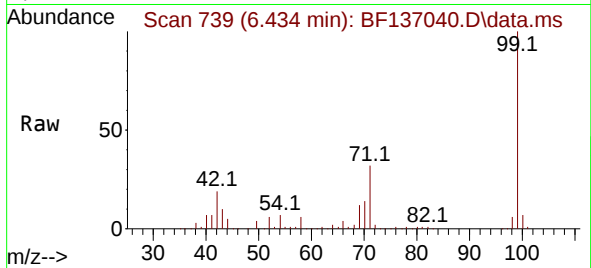




#7  
Phenol-d6  
Concen: 82.481 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

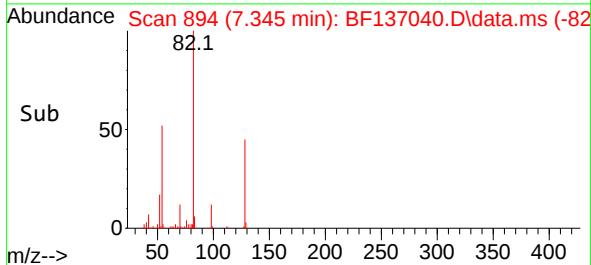
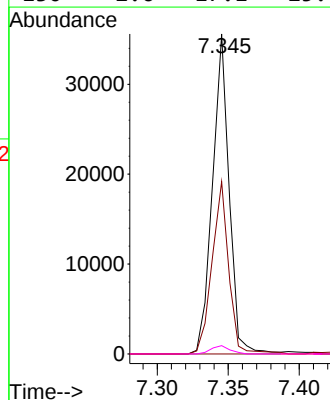
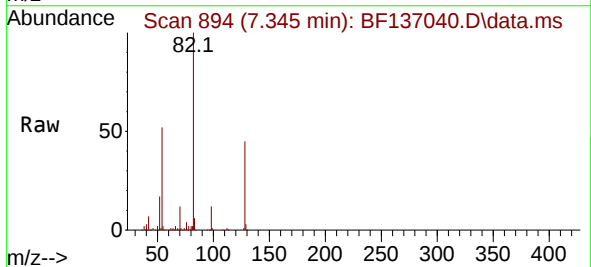
Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

Tgt Ion: 99 Resp: 391833  
Ion Ratio Lower Upper  
99 100  
42 18.9 16.1 24.1  
71 32.0 27.4 41.2



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.116 ng  
RT: 7.345 min Scan# 894  
Delta R.T. 0.135 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion: 70 Resp: 29131  
Ion Ratio Lower Upper  
70 100  
42 53.9 54.2 81.4#  
101 0.0 7.6 11.4#  
130 2.6 17.1 25.7#



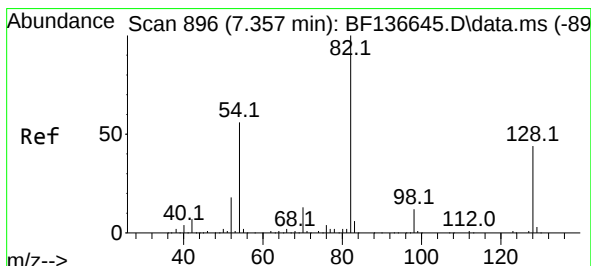
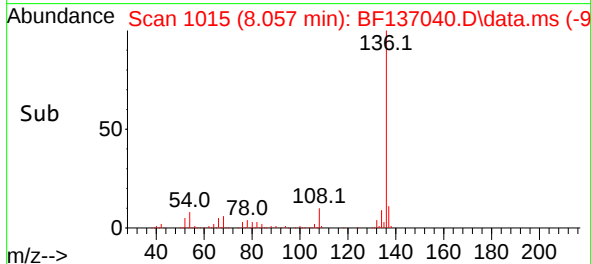
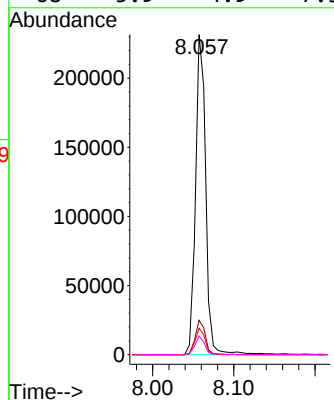
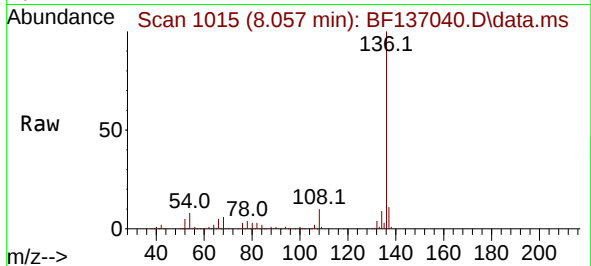


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.057 min Scan# 1015  
Delta R.T. -0.012 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

Tgt Ion:136 Resp: 202858

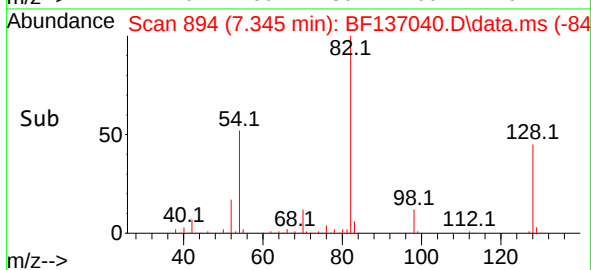
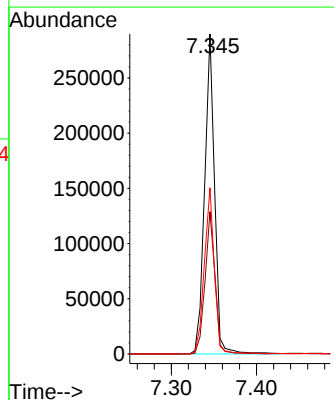
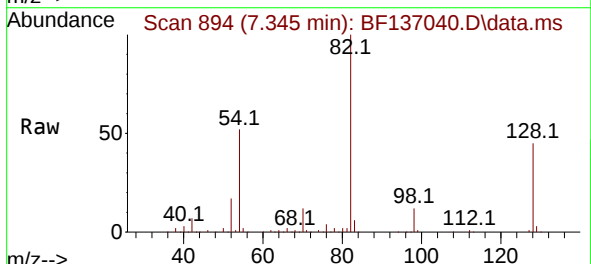
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 9.0   | 13.4  |
| 54  | 8.3   | 7.2   | 10.8  |
| 68  | 5.9   | 4.9   | 7.3   |



#23  
Nitrobenzene-d5  
Concen: 59.451 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion: 82 Resp: 235684

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.5  | 35.3  | 52.9  |
| 54  | 52.0  | 44.5  | 66.7  |

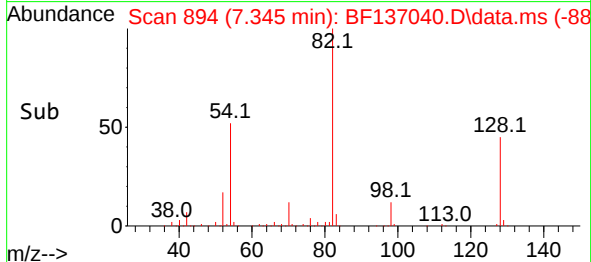
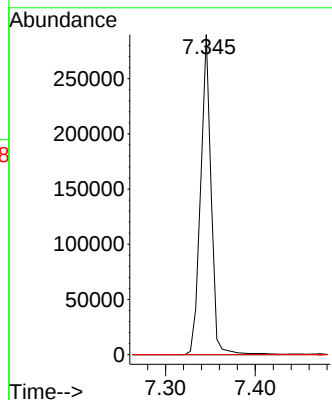
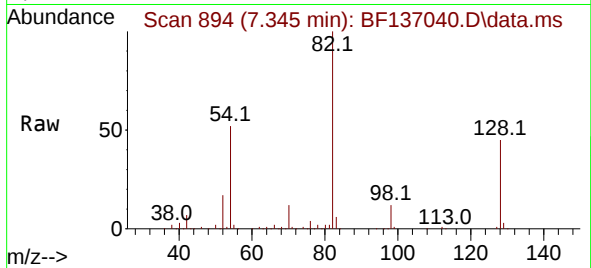




#25  
Isophorone  
Concen: 32.672 ng  
RT: 7.345 min Scan# 89  
Delta R.T. -0.270 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

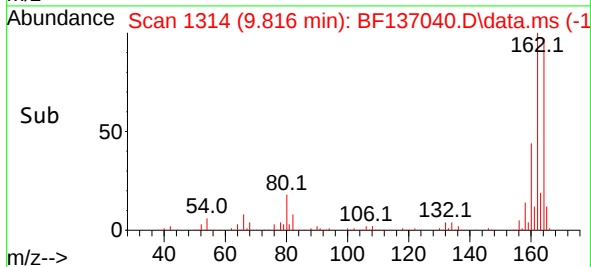
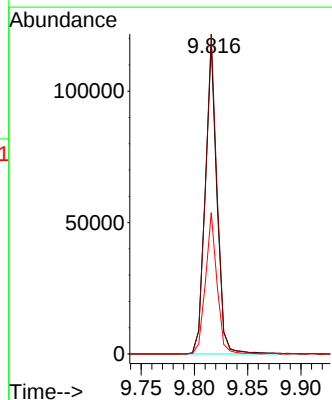
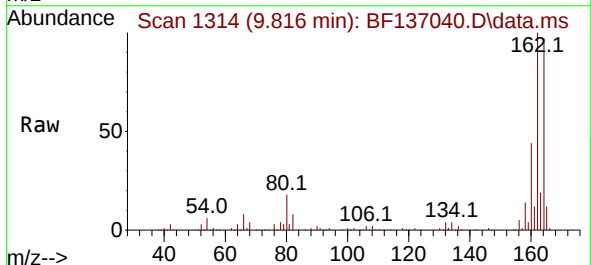
Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

Tgt Ion: 82 Resp: 235681  
Ion Ratio Lower Upper  
82 100  
95 0.0 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: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion:164 Resp: 90779  
Ion Ratio Lower Upper  
164 100  
162 103.2 81.6 122.4  
160 45.6 34.9 52.3





#42

2,4,6-Tribromophenol

Concen: 80.977 ng

RT: 10.610 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

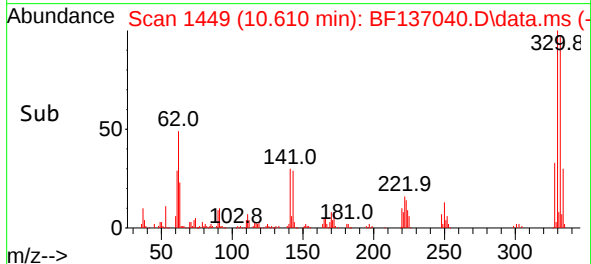
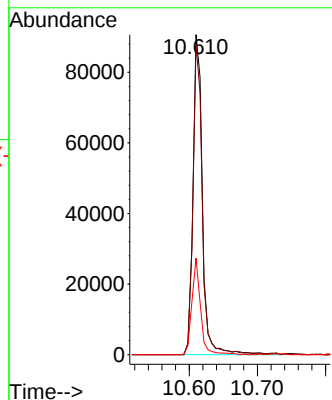
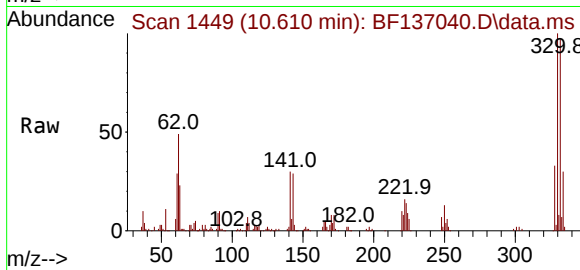
Tgt Ion:330 Resp: 86574

Ion Ratio Lower Upper

330 100

332 95.7 77.4 116.0

141 27.8 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 65.458 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

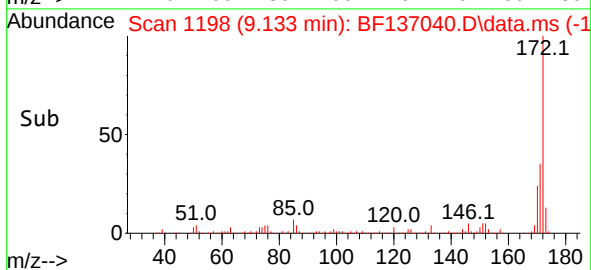
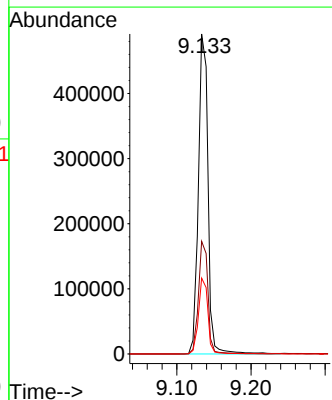
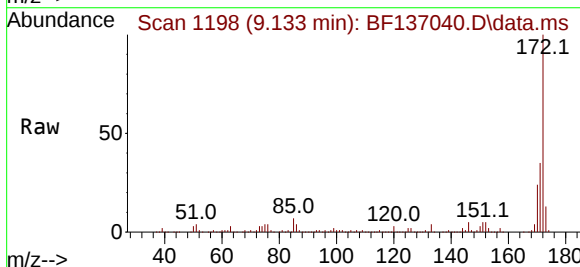
Tgt Ion:172 Resp: 441806

Ion Ratio Lower Upper

172 100

171 35.2 29.0 43.6

170 23.7 19.0 28.4

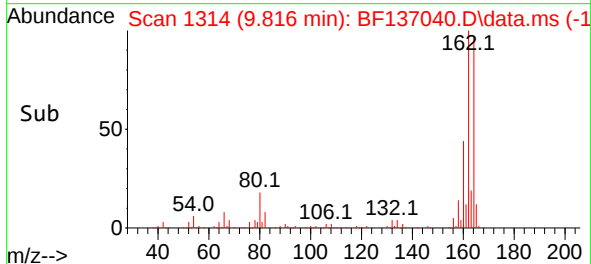
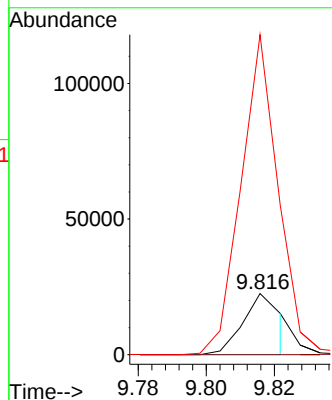
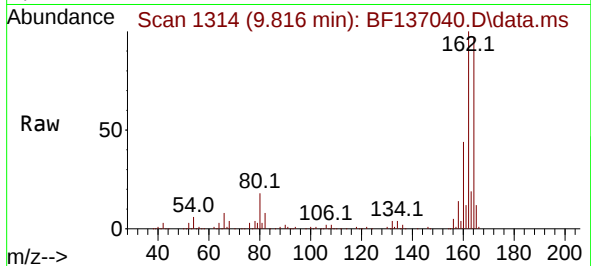




#50  
Dimethylphthalate  
Concen: 2.613 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.259 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

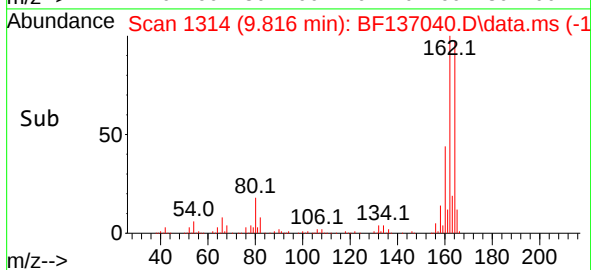
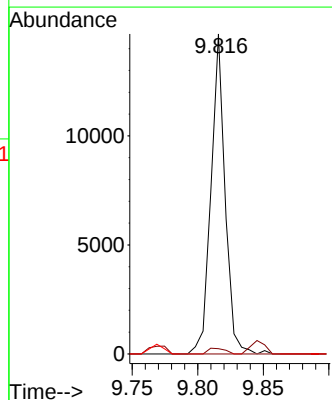
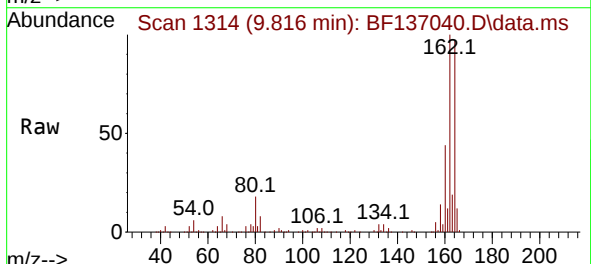
Instrument :  
BNA\_F  
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MH-G

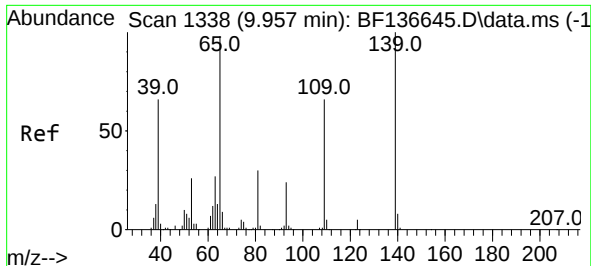
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Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 523.2 7.8 11.6#



#51  
2,6-Dinitrotoluene  
Concen: 7.320 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. 0.194 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion:165 Resp: 11016  
Ion Ratio Lower Upper  
165 100  
63 1.7 39.8 59.6#  
89 0.0 38.8 58.2#

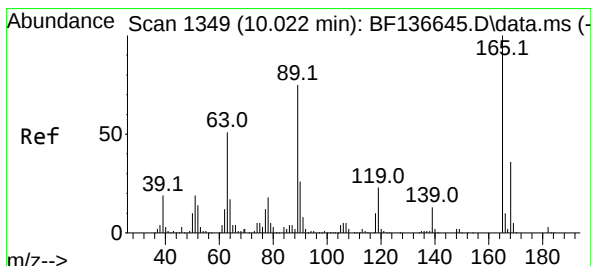
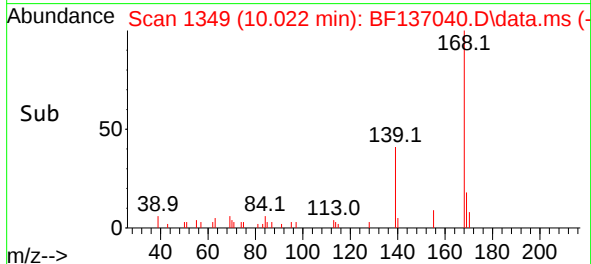
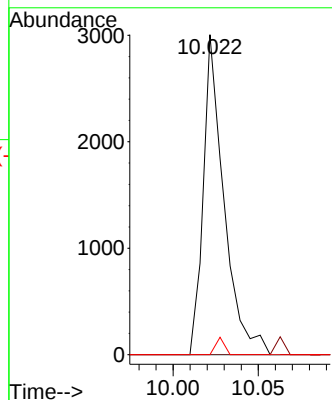
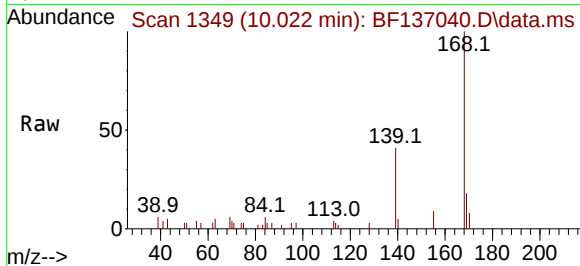




#56  
4-Nitrophenol  
Concen: 2.362 ng  
RT: 10.022 min Scan# 11  
Delta R.T. 0.065 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

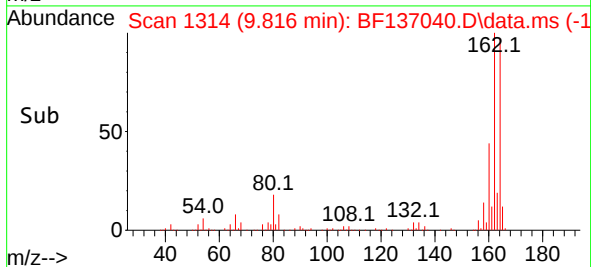
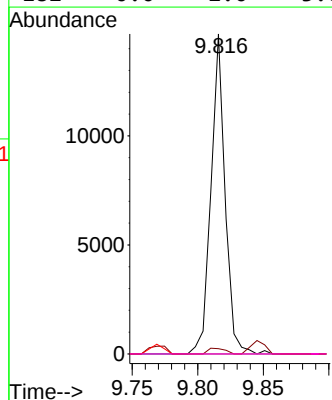
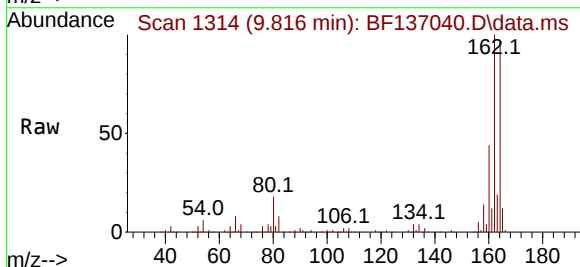
Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

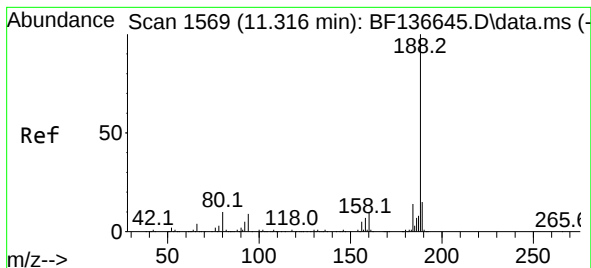
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Ion Ratio Lower Upper  
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109 0.0 45.8 85.8#  
65 0.0 77.8 117.8#



#57  
2,4-Dinitrotoluene  
Concen: 5.639 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.206 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion:165 Resp: 11016  
Ion Ratio Lower Upper  
165 100  
63 1.7 41.0 61.6#  
89 0.0 59.9 89.9#  
182 0.0 2.0 3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

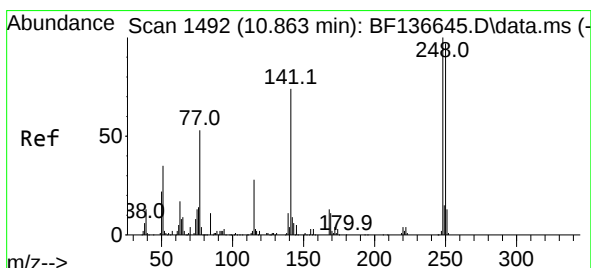
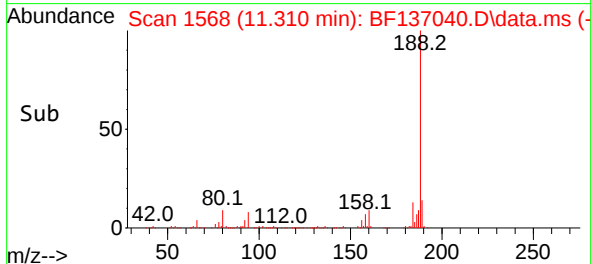
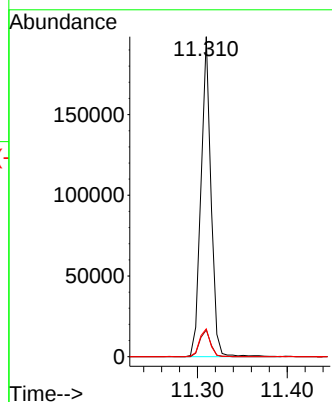
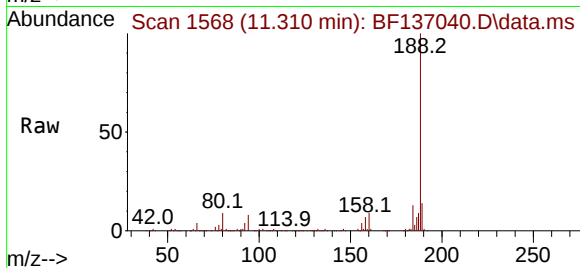
Tgt Ion:188 Resp: 153852

Ion Ratio Lower Upper

188 100

94 8.4 7.5 11.3

80 8.7 8.1 12.1



#67

4-Bromophenyl-phenylether

Concen: 2.958 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.253 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

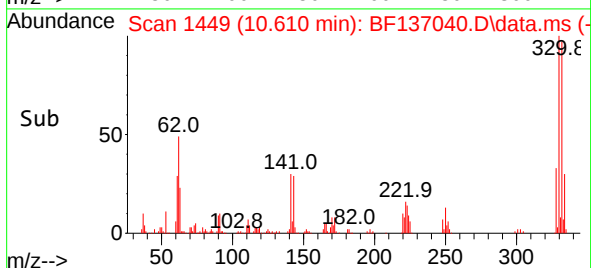
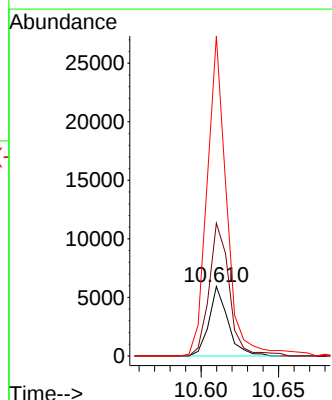
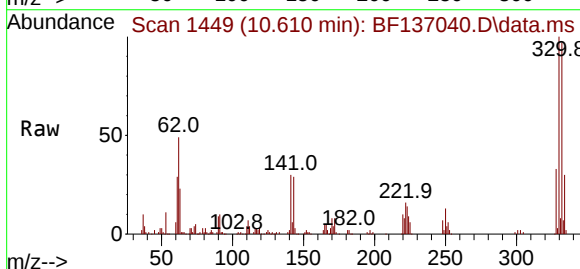
Tgt Ion:248 Resp: 5055

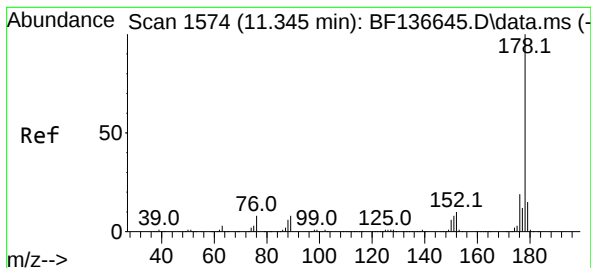
Ion Ratio Lower Upper

248 100

250 191.3 77.8 116.6#

141 461.2 59.2 88.8#





#71

Phenanthrene

Concen: 12.607 ng

RT: 11.333 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

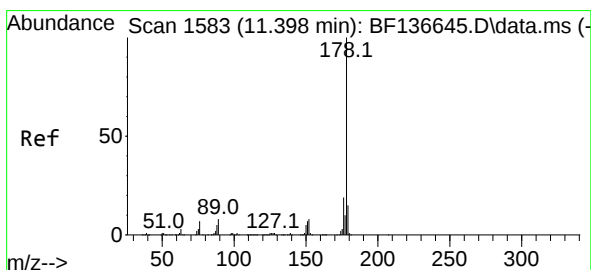
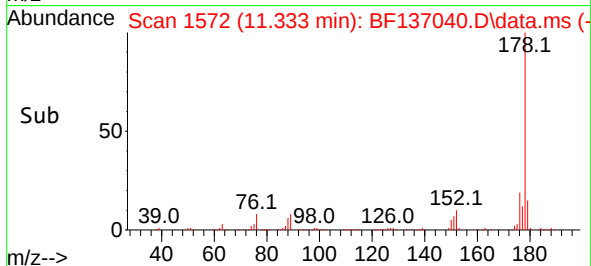
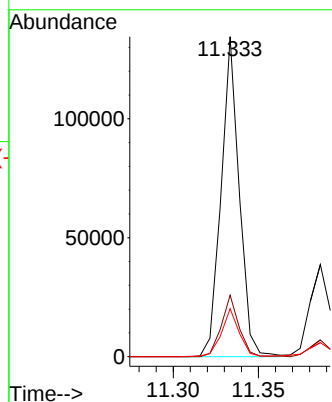
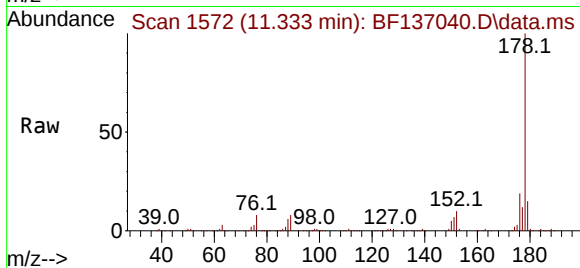
Tgt Ion:178 Resp: 99525

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.0 11.9 17.9



#72

Anthracene

Concen: 3.946 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

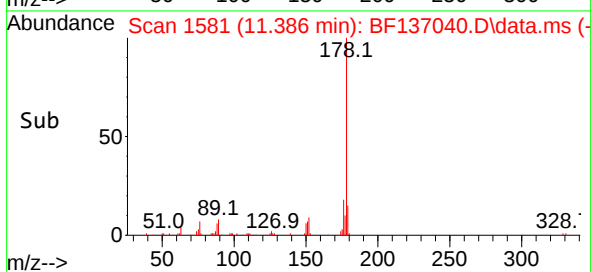
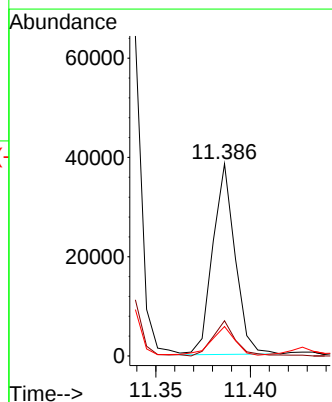
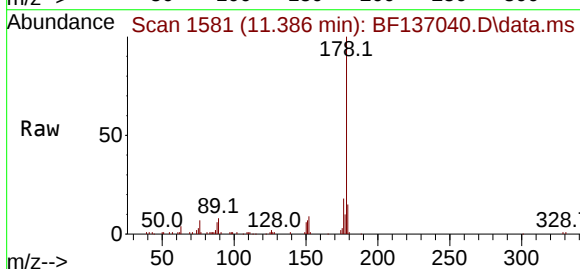
Tgt Ion:178 Resp: 31548

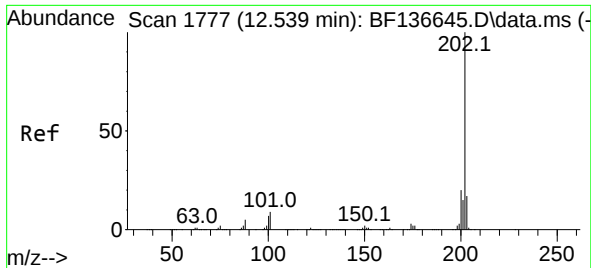
Ion Ratio Lower Upper

178 100

176 18.3 14.9 22.3

179 15.3 11.8 17.6

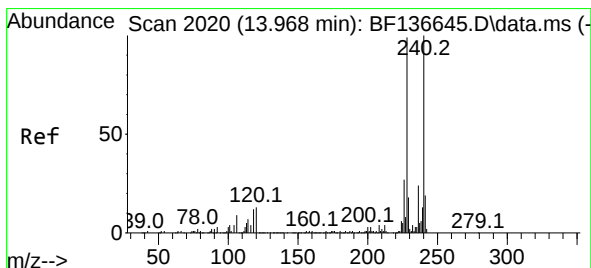
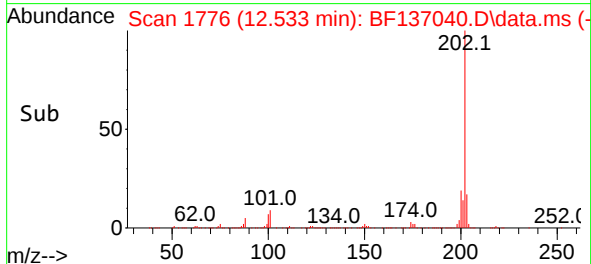
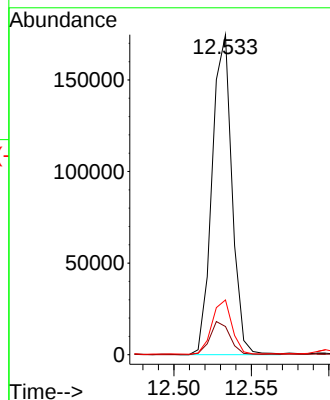
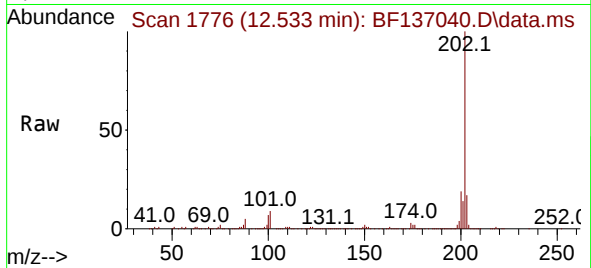




#75  
Fluoranthene  
Concen: 18.455 ng  
RT: 12.533 min Scan# 1776  
Delta R.T. -0.006 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

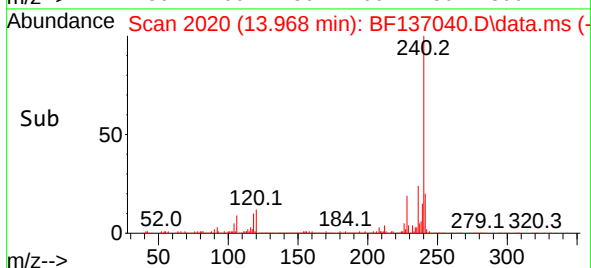
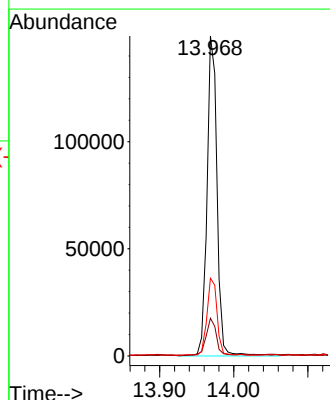
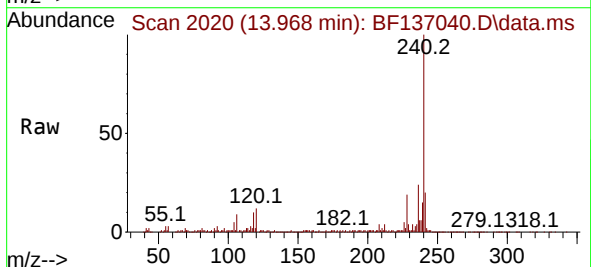
Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

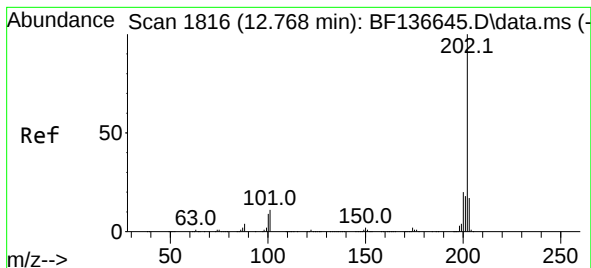
Tgt Ion:202 Resp: 155840  
Ion Ratio Lower Upper  
202 100  
101 8.8 0.0 29.3  
203 17.1 0.0 37.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.968 min Scan# 2020  
Delta R.T. 0.000 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion:240 Resp: 140643  
Ion Ratio Lower Upper  
240 100  
120 11.8 10.3 15.5  
236 24.3 19.4 29.2





#78

Pyrene

Concen: 9.440 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

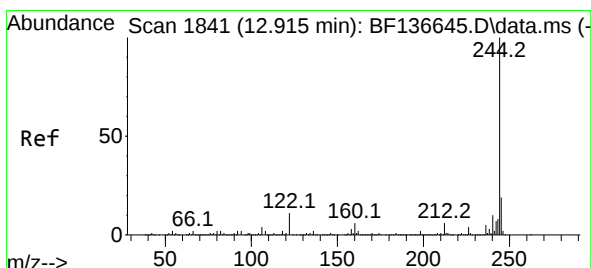
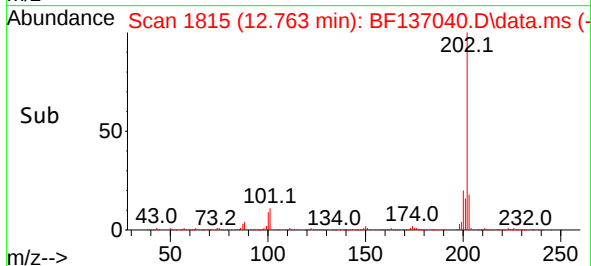
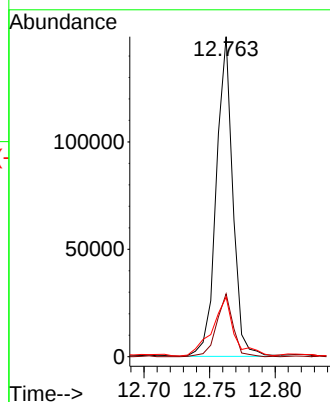
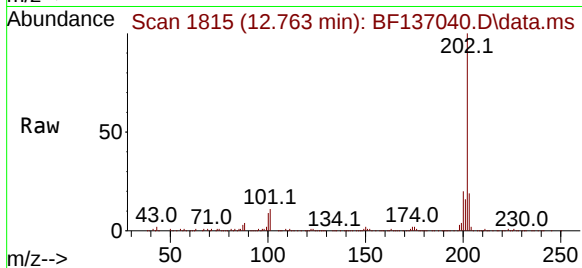
Tgt Ion:202 Resp: 130329

Ion Ratio Lower Upper

202 100

200 19.6 15.9 23.9

203 18.6 13.8 20.6



#79

Terphenyl-d14

Concen: 42.710 ng

RT: 12.904 min Scan# 1839

Delta R.T. -0.012 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

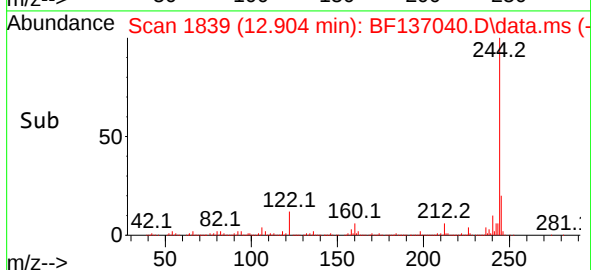
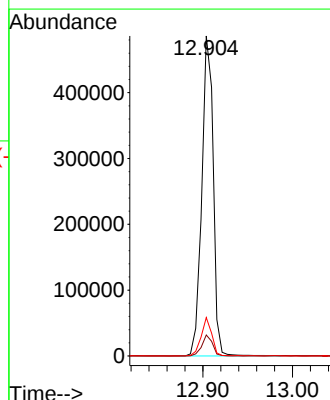
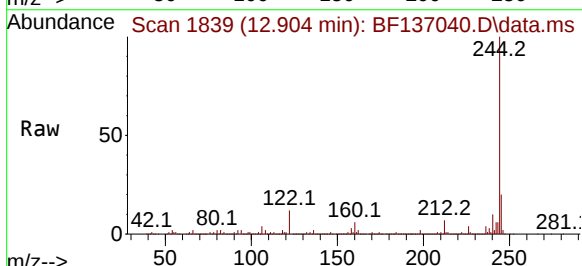
Tgt Ion:244 Resp: 429842

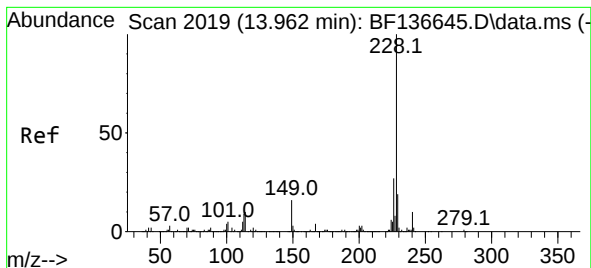
Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

122 12.0 9.0 13.4





#81

Benzo(a)anthracene

Concen: 6.760 ng

RT: 13.963 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

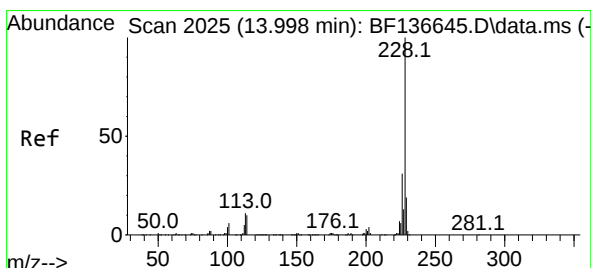
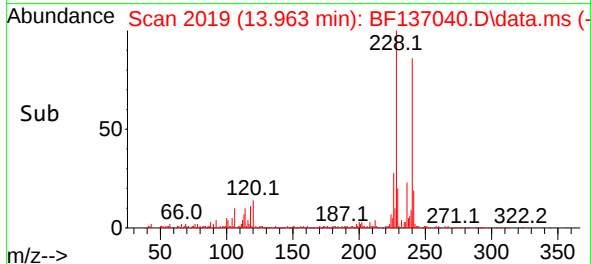
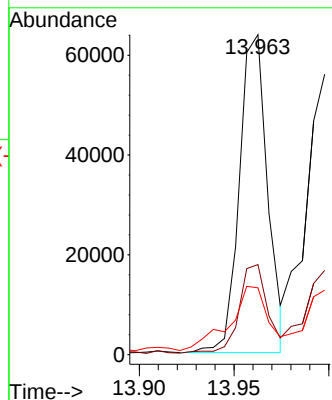
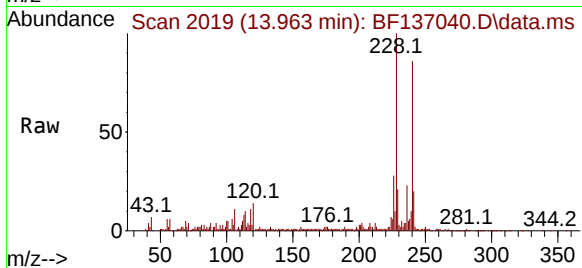
Tgt Ion:228 Resp: 66021

Ion Ratio Lower Upper

228 100

226 28.2 21.4 32.0

229 20.9 14.9 22.3



#83

Chrysene

Concen: 6.156 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.000 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

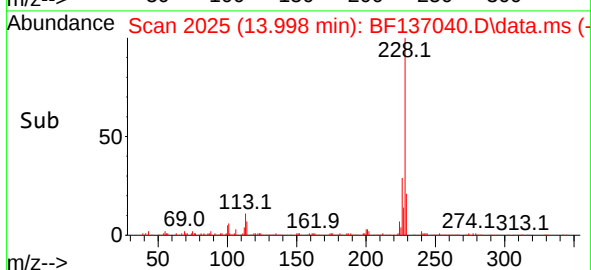
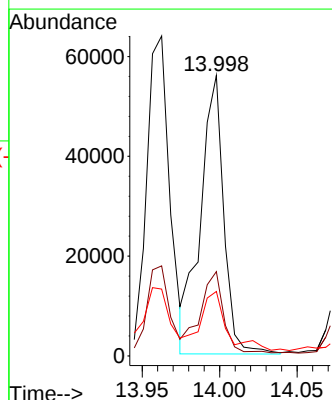
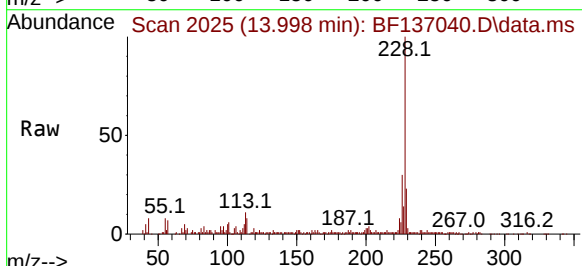
Tgt Ion:228 Resp: 58795

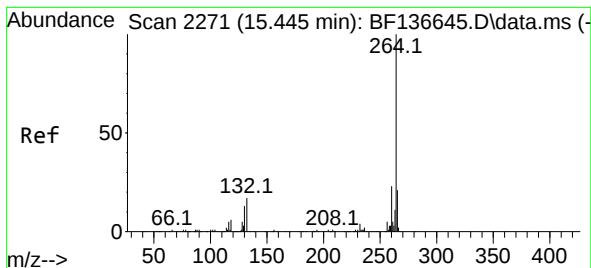
Ion Ratio Lower Upper

228 100

226 30.1 24.7 37.1

229 23.0 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

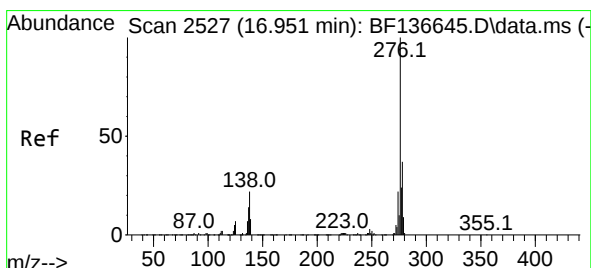
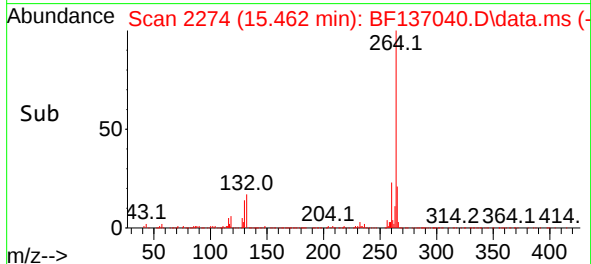
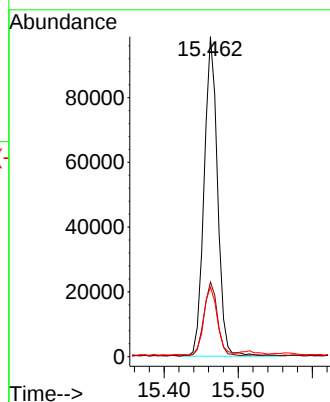
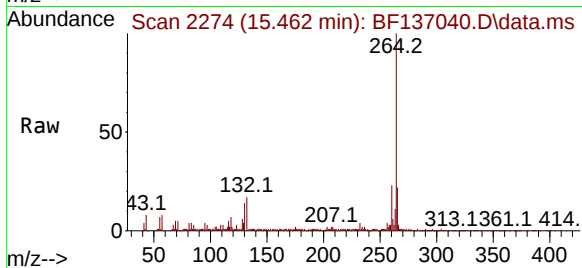
Tgt Ion:264 Resp: 124629

Ion Ratio Lower Upper

264 100

260 23.4 18.3 27.5

265 21.8 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.889 ng

RT: 16.986 min Scan# 2533

Delta R.T. 0.035 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

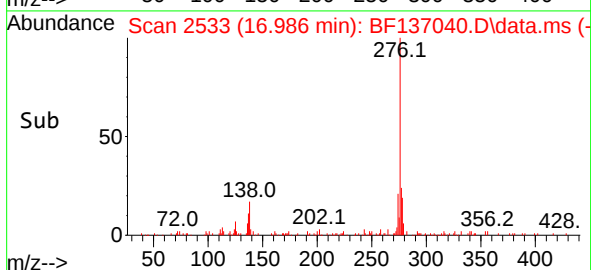
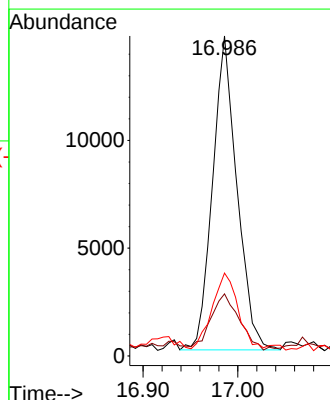
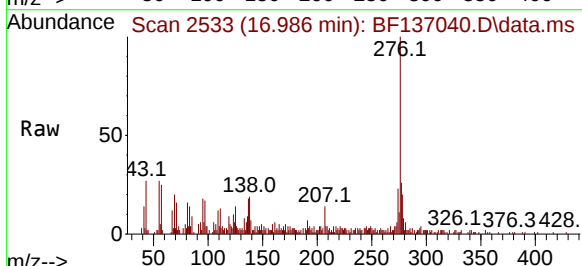
Tgt Ion:276 Resp: 26000

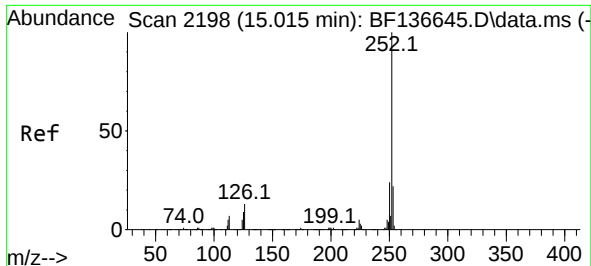
Ion Ratio Lower Upper

276 100

138 19.6 18.7 28.1

277 25.3 20.2 30.2

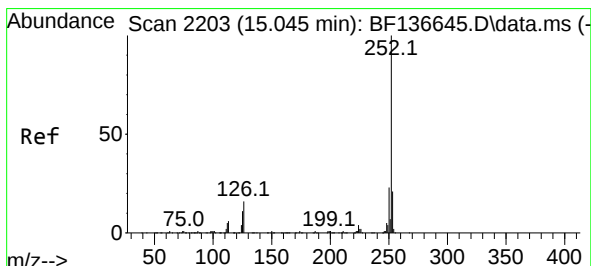
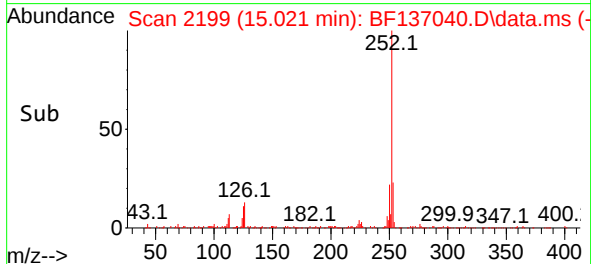
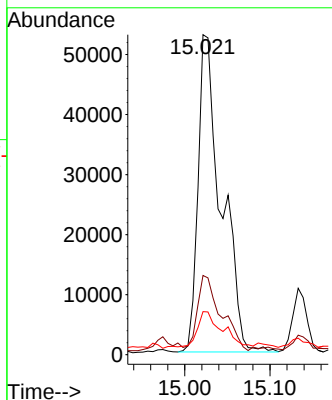
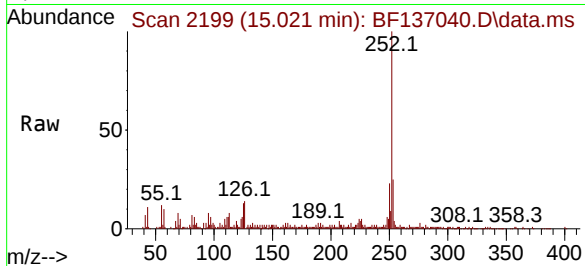




#88  
Benzo(b)fluoranthene  
Concen: 12.022 ng  
RT: 15.021 min Scan# 2199  
Delta R.T. 0.006 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

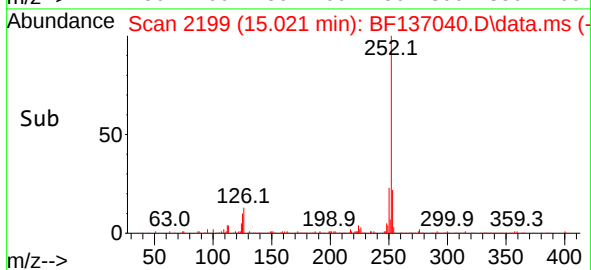
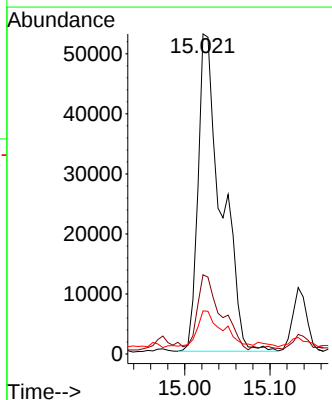
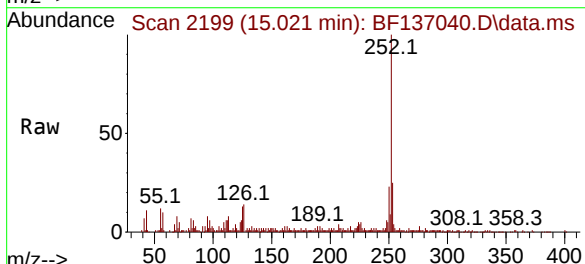
Instrument :  
BNA\_F  
ClientSampleId :  
MH-G

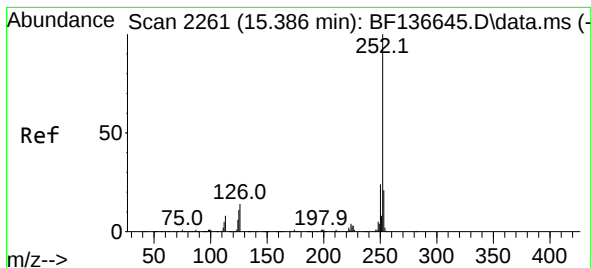
Tgt Ion:252 Resp: 100071  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.4 26.0  
125 13.5 7.4 11.2#



#89  
Benzo(k)fluoranthene  
Concen: 12.723 ng  
RT: 15.021 min Scan# 2199  
Delta R.T. -0.023 min  
Lab File: BF137040.D  
Acq: 11 Jan 2024 15:48

Tgt Ion:252 Resp: 100071  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.0 25.6  
125 13.5 8.2 12.4#





#90

Benzo(a)pyrene

Concen: 7.351 ng

RT: 15.398 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Instrument :

BNA\_F

ClientSampleId :

MH-G

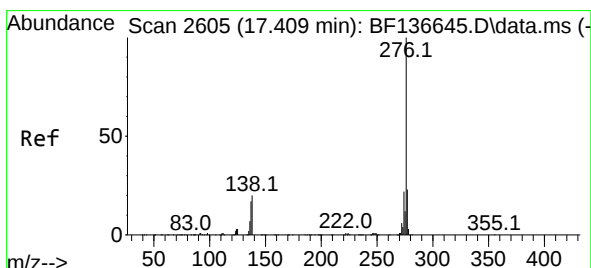
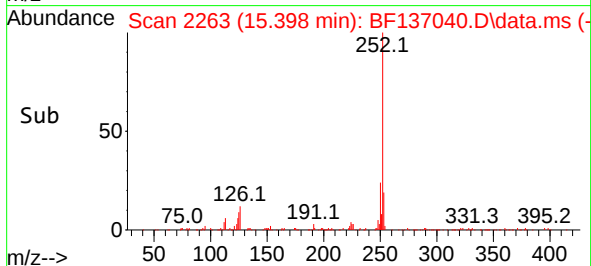
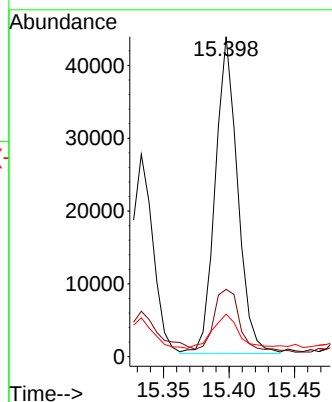
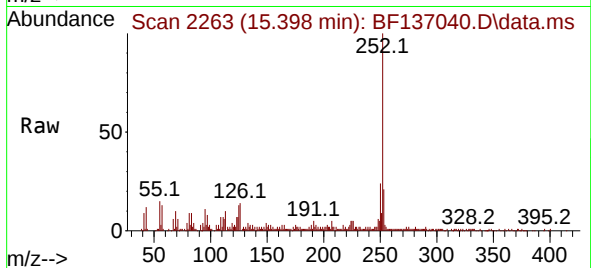
Tgt Ion:252 Resp: 51651

Ion Ratio Lower Upper

252 100

253 21.1 17.0 25.6

125 13.3 8.8 13.2#



#92

Benzo(g,h,i)perylene

Concen: 3.162 ng

RT: 17.445 min Scan# 2611

Delta R.T. 0.035 min

Lab File: BF137040.D

Acq: 11 Jan 2024 15:48

Tgt Ion:276 Resp: 23911

Ion Ratio Lower Upper

276 100

277 24.6 18.3 27.5

138 24.9 15.6 23.4#

