

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020724\  
 Data File : BF137321.D  
 Acq On : 07 Feb 2024 15:41  
 Operator : CG\JU  
 Sample : P1367-13  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EB-5-6-8

Quant Time: Feb 07 16:00:21 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 31 04:56:22 2024  
 Response via : Initial Calibration

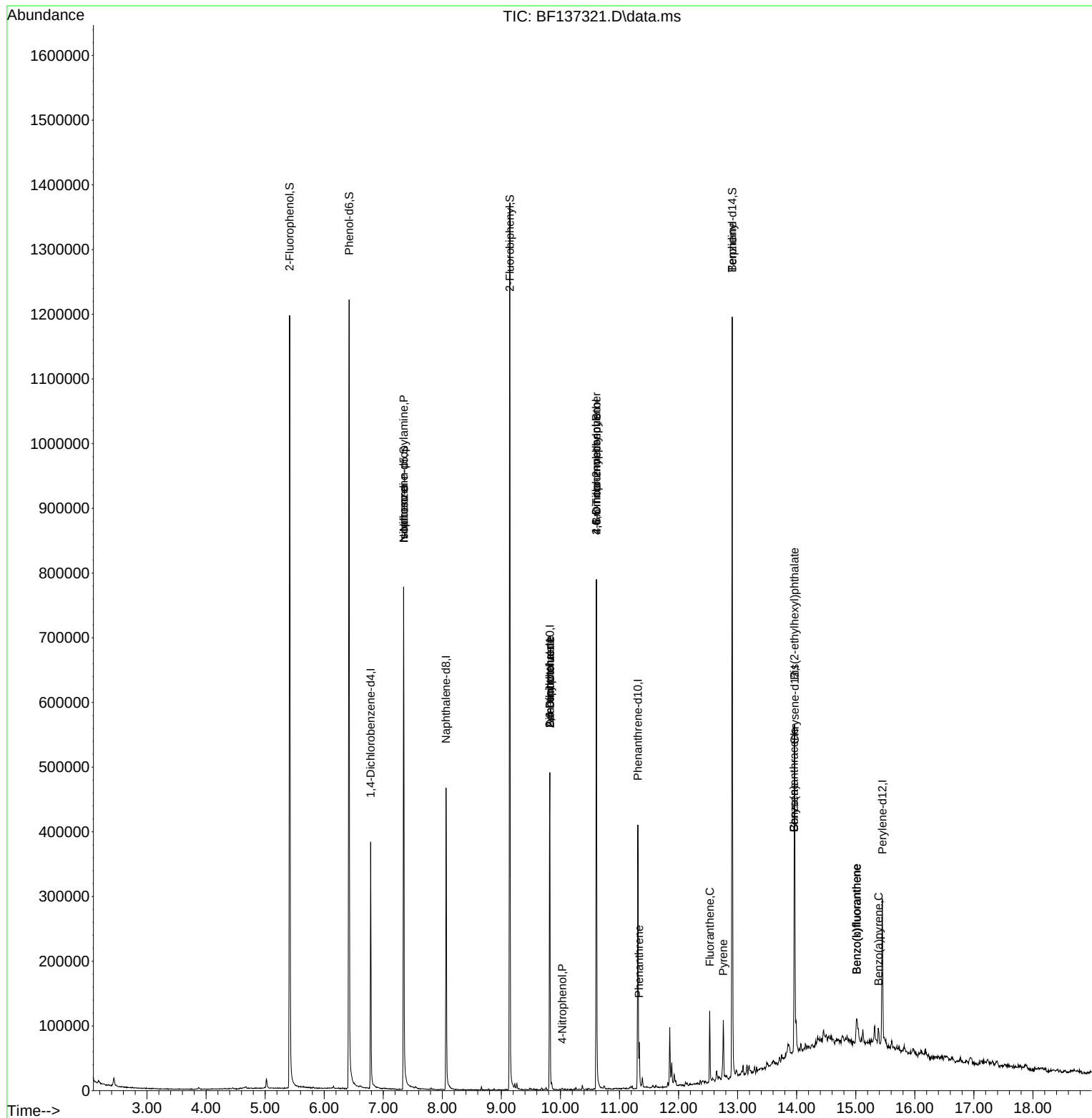
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.787  | 152  | 49262    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.063  | 136  | 188657   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.822  | 164  | 98074    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.310 | 188  | 154209   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 13.968 | 240  | 124012   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.451 | 264  | 112934   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.416  | 112  | 288949   | 96.786 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.422  | 99   | 393963   | 92.469 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 248837   | 59.053 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.610 | 330  | 86968    | 78.519 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.145  | 172  | 417920   | 58.578 | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.910 | 244  | 381844   | 41.859 | ng    | -0.01    |
| Target Compounds              |        |      |          |        |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.345  | 70   | 34743    | 11.893 | ng    | # 82     |
| 25) Isophorone                | 7.345  | 82   | 248834   | 31.993 | ng    | # 67     |
| 50) Dimethylphthalate         | 9.822  | 163  | 18517    | 2.795  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.822  | 165  | 12325    | 8.724  | ng    | # 18     |
| 56) 4-Nitrophenol             | 10.033 | 139  | 232      | 8.693  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 9.822  | 165  | 12325    | 6.723  | ng    | # 16     |
| 65) 4,6-Dinitro-2-methylph... | 10.610 | 198  | 163      | 5.632  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.610 | 248  | 5957     | 3.513  | ng    | # 1      |
| 71) Phenanthrene              | 11.333 | 178  | 23746    | 2.941  | ng    | 99       |
| 75) Fluoranthene              | 12.527 | 202  | 42749    | 5.060  | ng    | 97       |
| 77) Benzidine                 | 12.910 | 184  | 4997     | 2.250  | ng    | 97       |
| 78) Pyrene                    | 12.757 | 202  | 36809    | 3.089  | ng    | 97       |
| 81) Benzo(a)anthracene        | 13.957 | 228  | 22370    | 2.547  | ng    | 94       |
| 83) Chrysene                  | 13.957 | 228  | 22370    | 2.591  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 13.963 | 149  | 38127    | 10.750 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.015 | 252  | 31313    | 4.509  | ng    | # 88     |
| 89) Benzo(k)fluoranthene      | 15.015 | 252  | 31313    | 4.262  | ng    | # 87     |
| 90) Benzo(a)pyrene            | 15.386 | 252  | 14241    | 2.179  | ng    | # 95     |

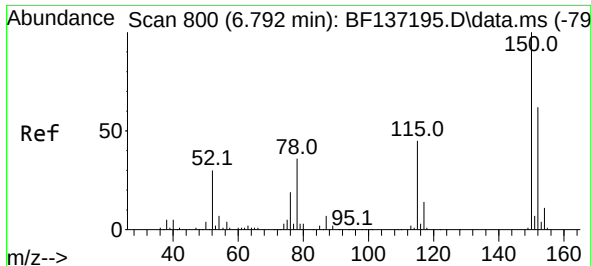
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020724\  
Data File : BF137321.D  
Acq On : 07 Feb 2024 15:41  
Operator : CG\JU  
Sample : P1367-13  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

Quant Time: Feb 07 16:00:21 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 31 04:56:22 2024  
Response via : Initial Calibration

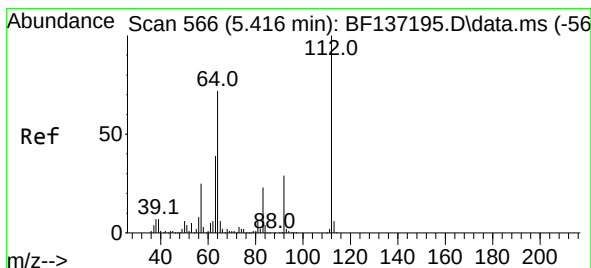
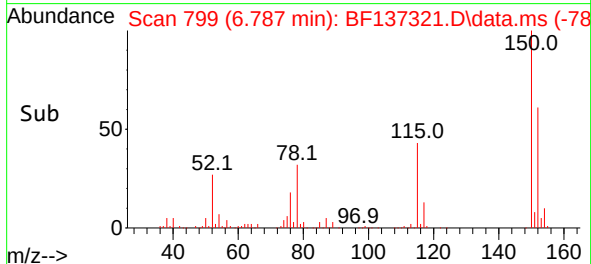
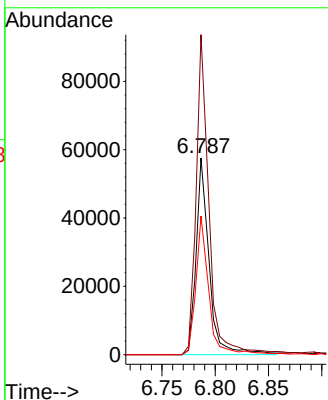
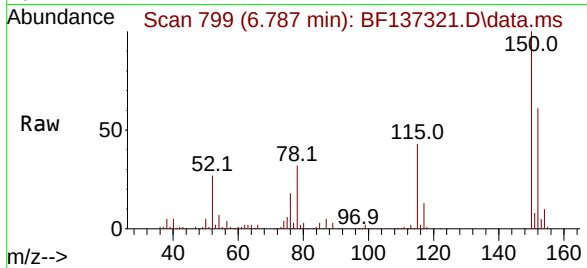




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.787 min Scan# 79  
Delta R.T. -0.005 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

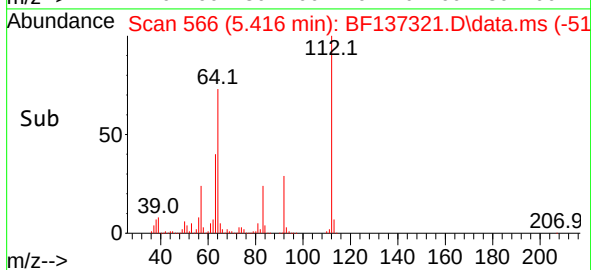
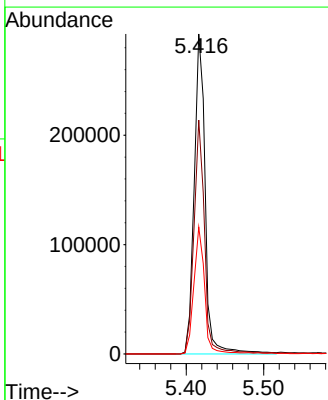
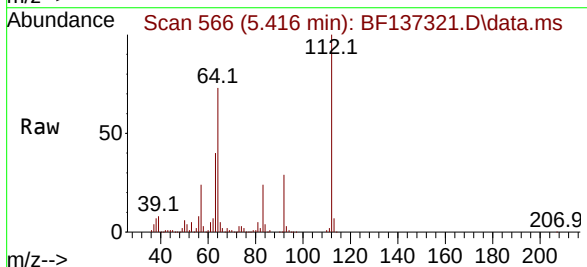
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

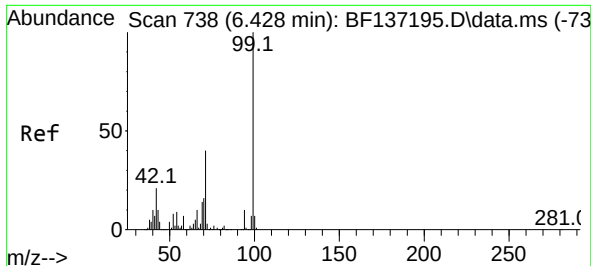
Tgt Ion:152 Resp: 49262  
Ion Ratio Lower Upper  
152 100  
150 162.7 129.8 194.8  
115 70.5 58.5 87.7



#5  
2-Fluorophenol  
Concen: 96.786 ng  
RT: 5.416 min Scan# 566  
Delta R.T. 0.000 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:112 Resp: 288949  
Ion Ratio Lower Upper  
112 100  
64 73.1 57.8 86.6  
63 39.6 31.4 47.0

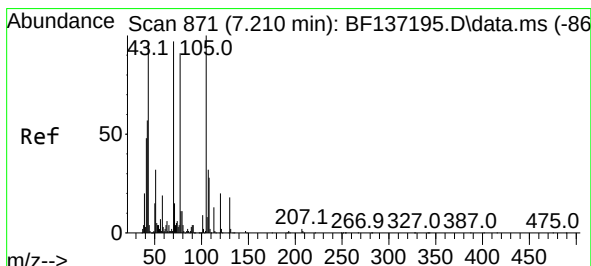
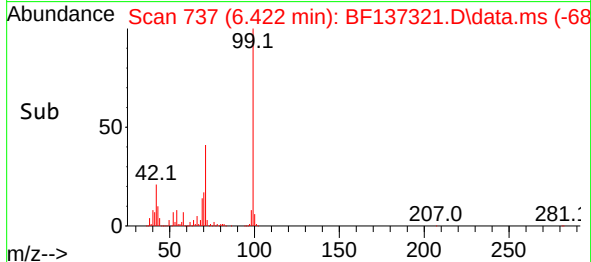
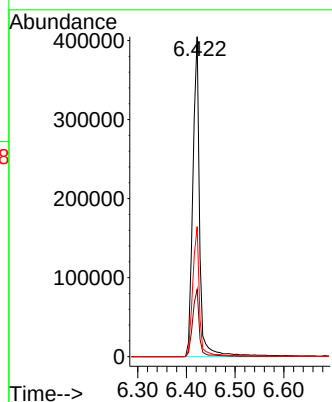
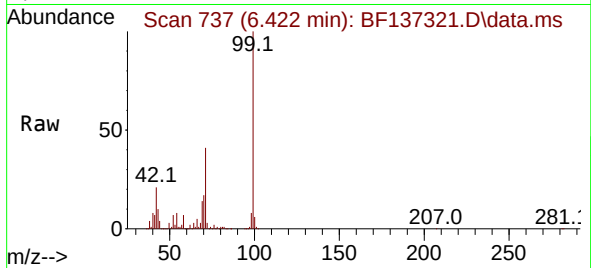




#7  
Phenol-d6  
Concen: 92.469 ng  
RT: 6.422 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

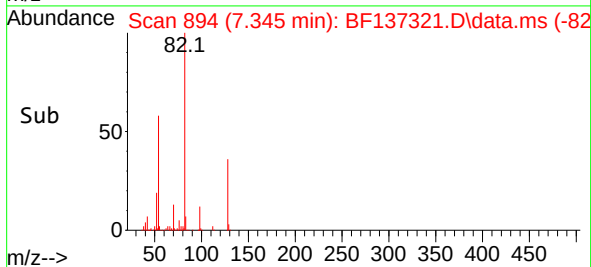
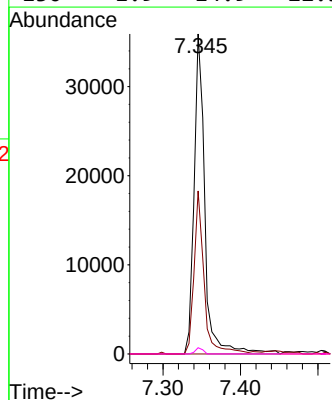
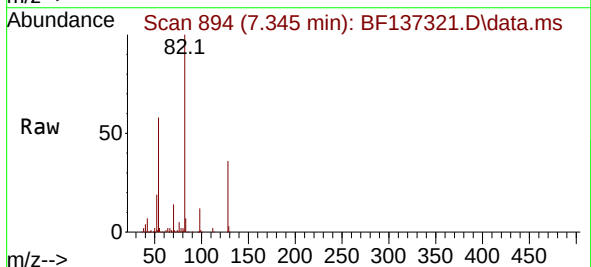
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

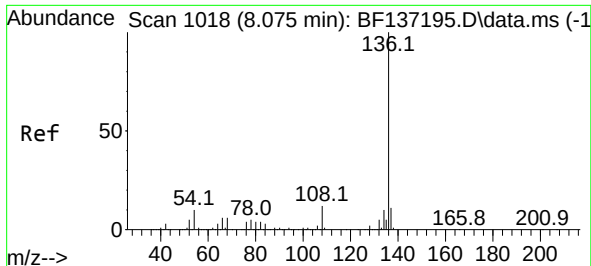
Tgt Ion: 99 Resp: 393963  
Ion Ratio Lower Upper  
99 100  
42 21.0 16.4 24.6  
71 40.6 32.4 48.6



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.893 ng  
RT: 7.345 min Scan# 894  
Delta R.T. 0.135 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion: 70 Resp: 34743  
Ion Ratio Lower Upper  
70 100  
42 51.0 47.2 70.8  
101 0.0 7.4 11.0#  
130 1.9 14.9 22.3#



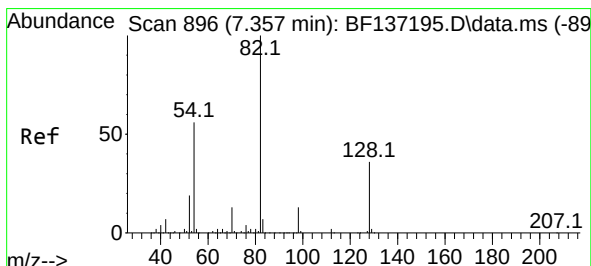
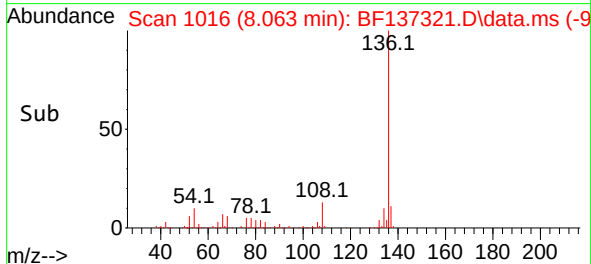
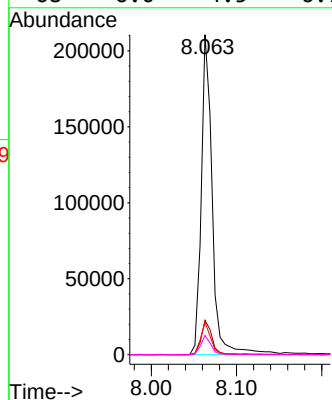
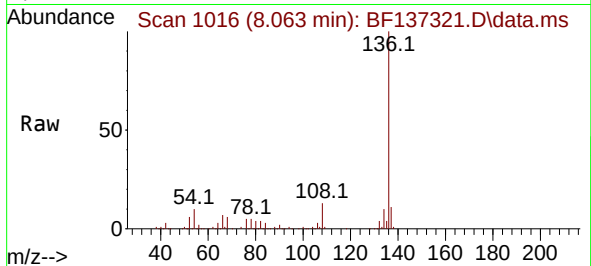


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.063 min Scan# 1016  
Delta R.T. -0.012 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

Tgt Ion:136 Resp: 188657

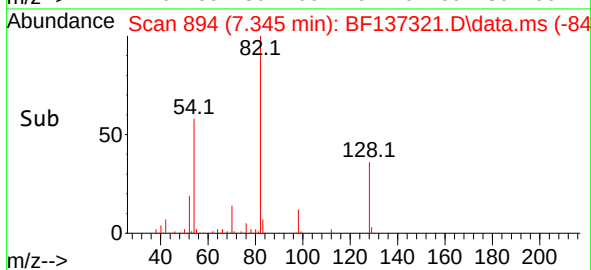
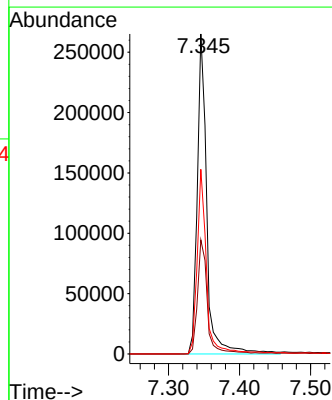
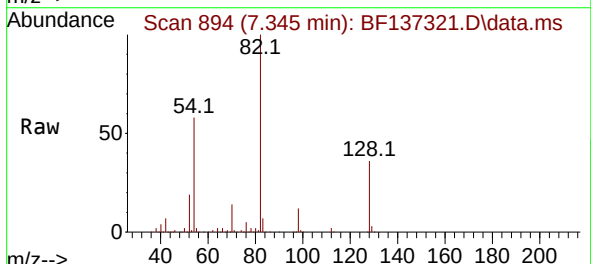
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.7  | 8.9   | 13.3  |
| 54  | 10.2  | 7.8   | 11.8  |
| 68  | 6.0   | 4.5   | 6.7   |

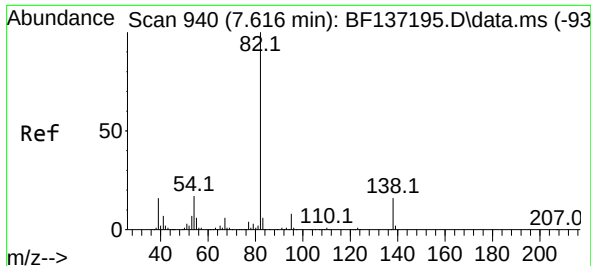


#23  
Nitrobenzene-d5  
Concen: 59.053 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.012 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion: 82 Resp: 248837

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 35.7  | 29.1  | 43.7  |
| 54  | 57.7  | 45.0  | 67.6  |

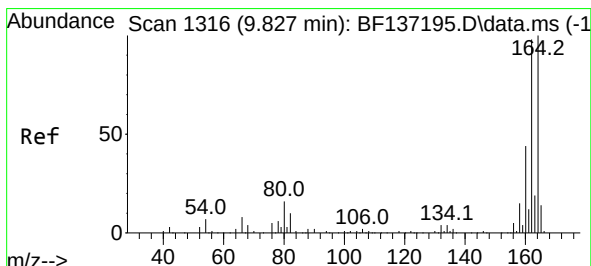
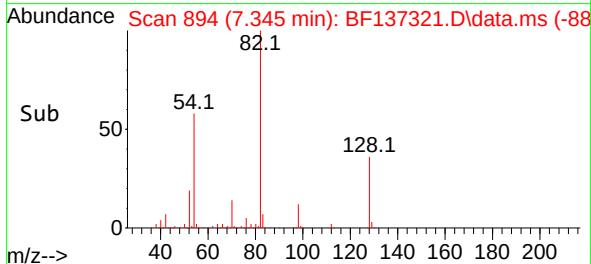
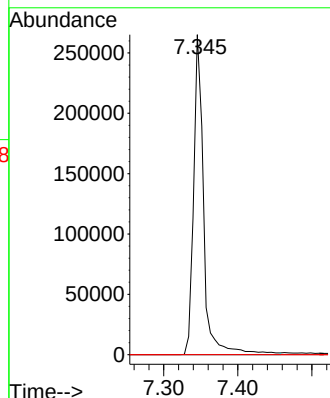
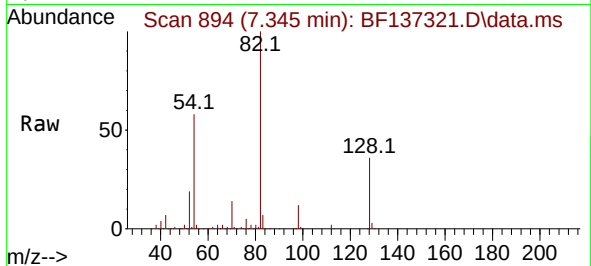




#25  
Isophorone  
Concen: 31.993 ng  
RT: 7.345 min Scan# 894  
Delta R.T. -0.270 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

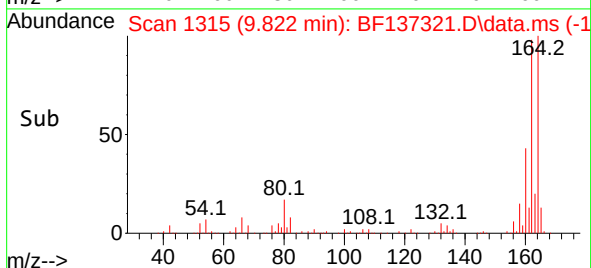
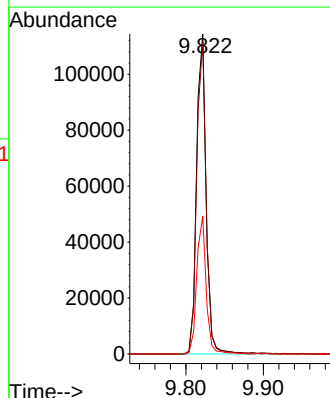
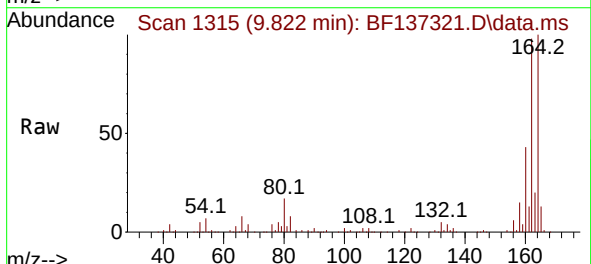
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

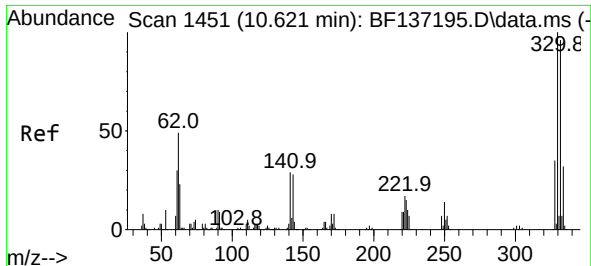
Tgt Ion: 82 Resp: 248834  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 12.7 19.1#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. -0.005 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion: 164 Resp: 98074  
Ion Ratio Lower Upper  
164 100  
162 97.6 78.3 117.5  
160 43.1 35.4 53.2





#42

2,4,6-Tribromophenol

Concen: 78.519 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF137321.D

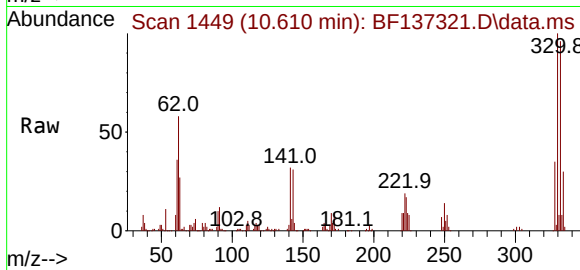
Acq: 07 Feb 2024 15:41

Instrument :

BNA\_F

ClientSampleId :

EB-5-6-8



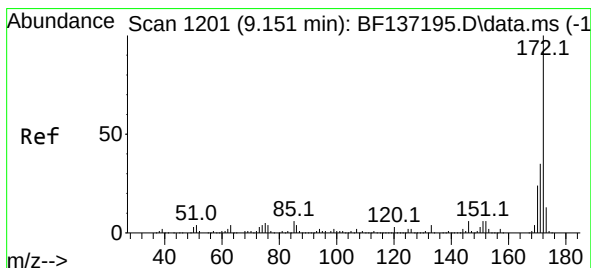
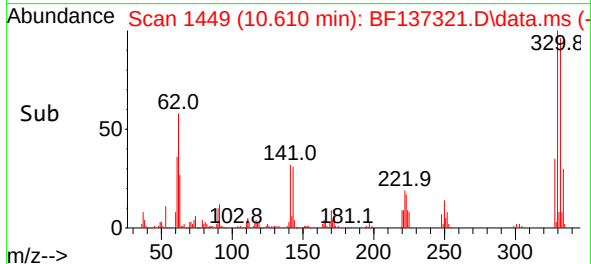
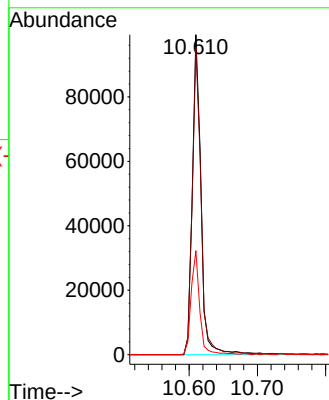
Tgt Ion:330 Resp: 86968

Ion Ratio Lower Upper

330 100

332 96.5 77.3 115.9

141 32.1 25.2 37.8



#45

2-Fluorobiphenyl

Concen: 58.578 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

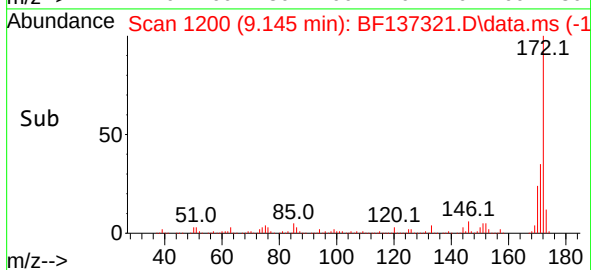
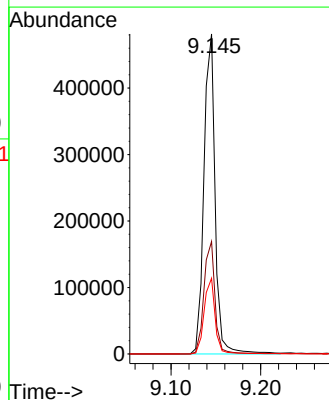
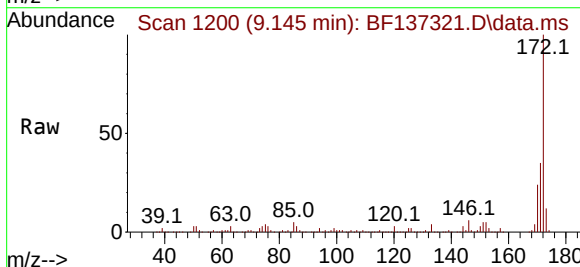
Tgt Ion:172 Resp: 417920

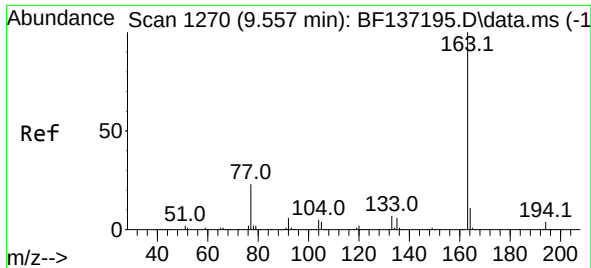
Ion Ratio Lower Upper

172 100

171 35.2 28.3 42.5

170 23.7 19.1 28.7

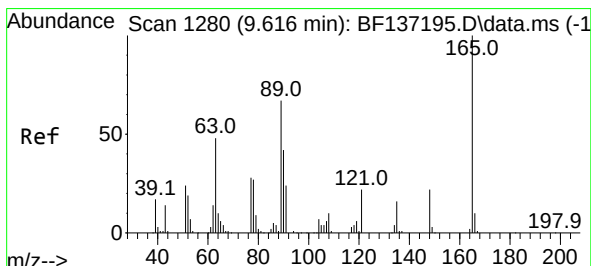
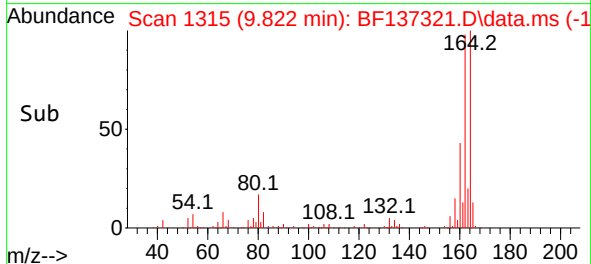
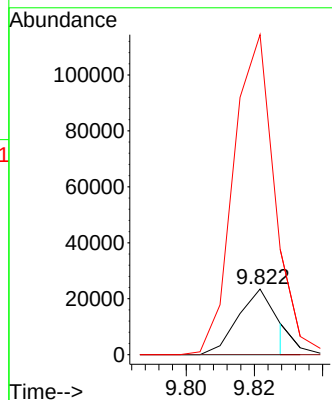
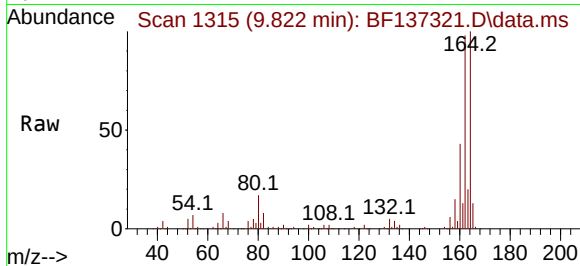




#50  
Dimethylphthalate  
Concen: 2.795 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. 0.265 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

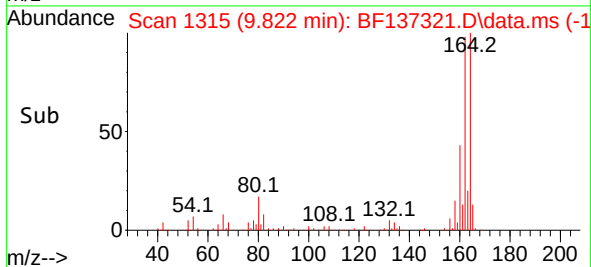
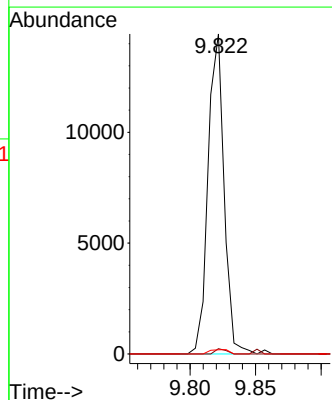
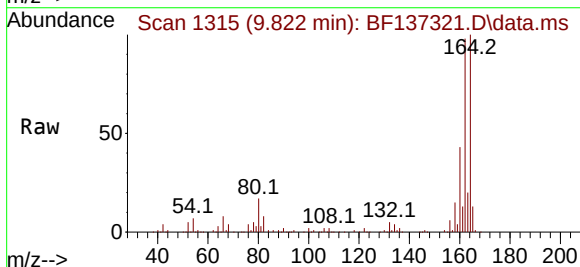
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

Tgt Ion:163 Resp: 18517  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.3 4.9#  
164 487.9 8.6 13.0#

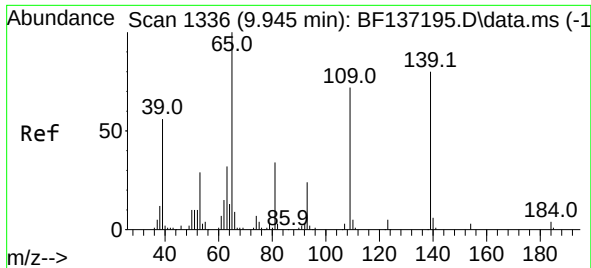


#51  
2,6-Dinitrotoluene  
Concen: 8.724 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. 0.206 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:165 Resp: 12325  
Ion Ratio Lower Upper  
165 100  
63 1.7 55.1 82.7#  
89 1.3 53.5 80.3#



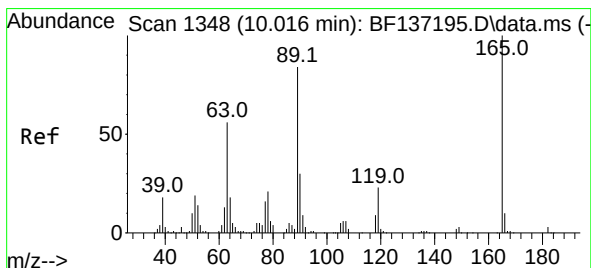
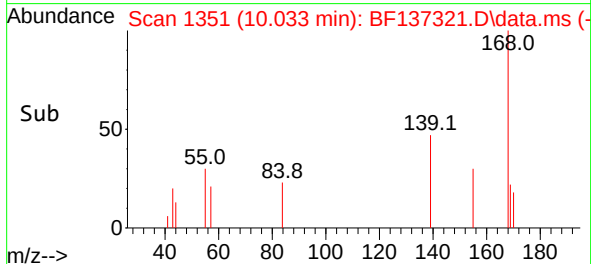
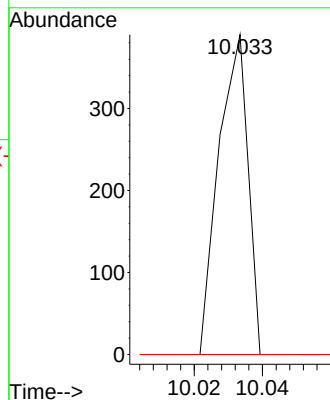
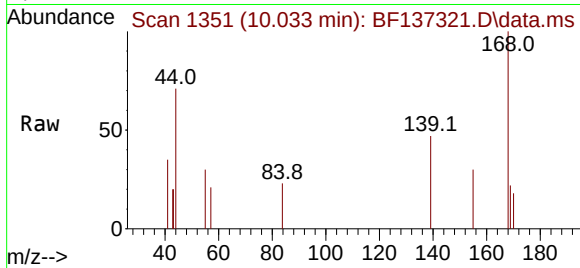




#56  
4-Nitrophenol  
Concen: 8.693 ng  
RT: 10.033 min Scan# 11  
Delta R.T. 0.088 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

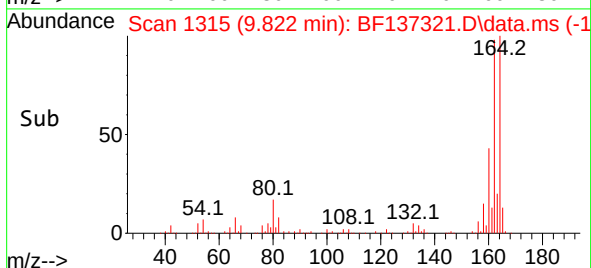
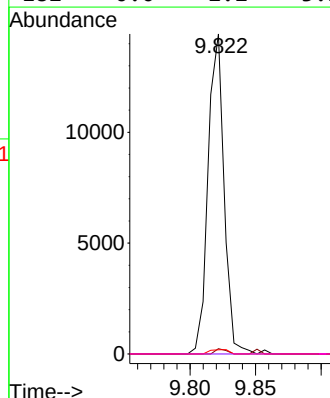
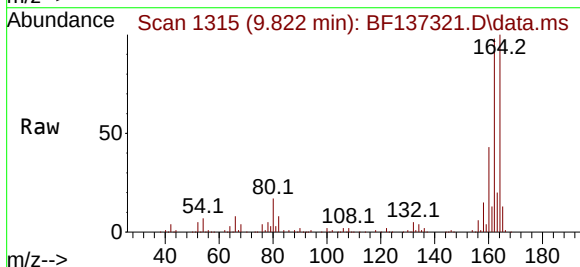
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

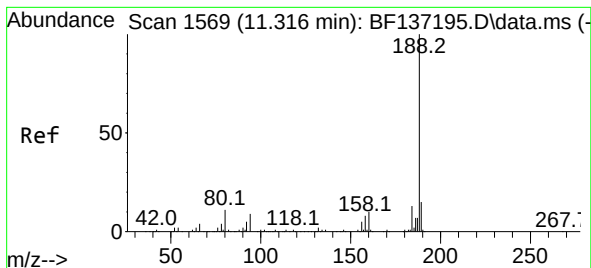
Tgt Ion:139 Resp: 232  
Ion Ratio Lower Upper  
139 100  
109 0.0 70.4 110.4#  
65 0.0 107.6 147.6#



#57  
2,4-Dinitrotoluene  
Concen: 6.723 ng  
RT: 9.822 min Scan# 1315  
Delta R.T. -0.194 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:165 Resp: 12325  
Ion Ratio Lower Upper  
165 100  
63 1.7 46.1 69.1#  
89 1.3 67.5 101.3#  
182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

Instrument :

BNA\_F

ClientSampleId :

EB-5-6-8

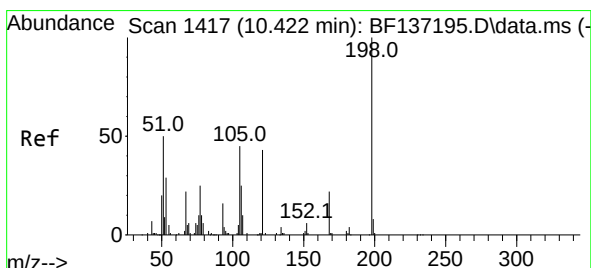
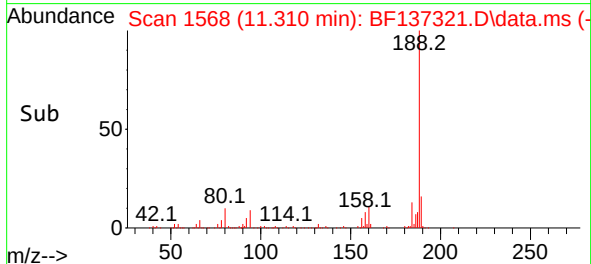
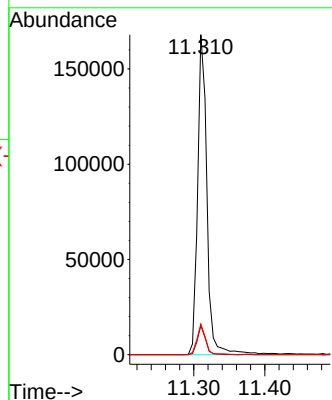
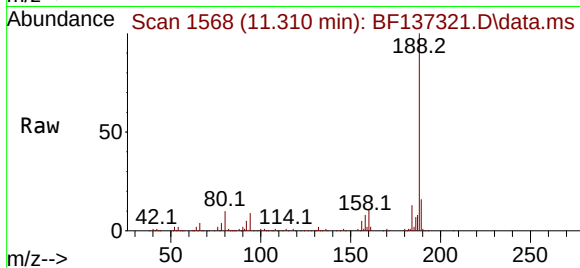
Tgt Ion:188 Resp: 154209

Ion Ratio Lower Upper

188 100

94 9.1 7.0 10.4

80 9.6 8.8 13.2



#65

4,6-Dinitro-2-methylphenol

Concen: 5.632 ng

RT: 10.610 min Scan# 1449

Delta R.T. 0.188 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

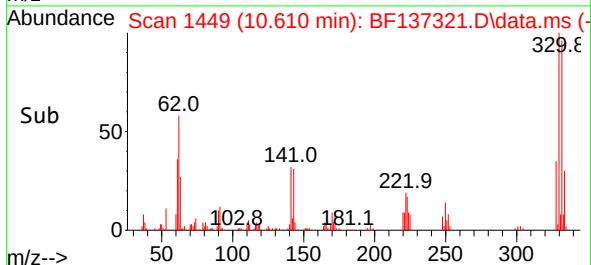
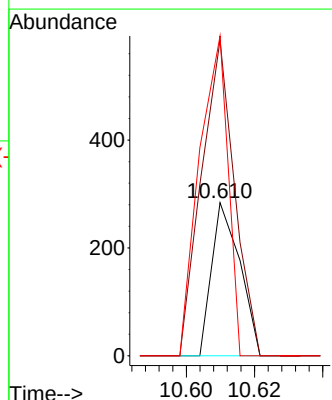
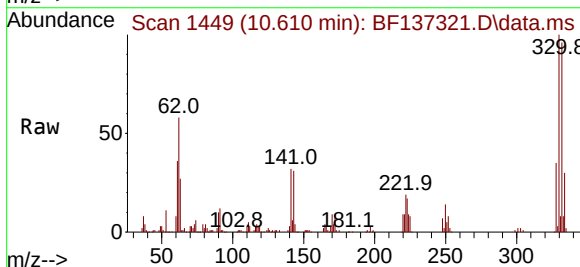
Tgt Ion:198 Resp: 163

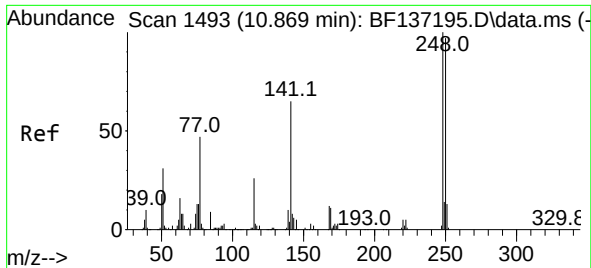
Ion Ratio Lower Upper

198 100

51 206.3 40.9 80.9#

105 208.8 26.5 66.5#

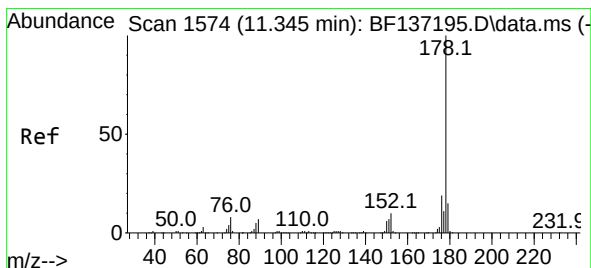
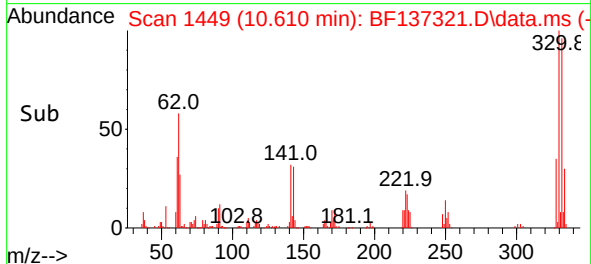
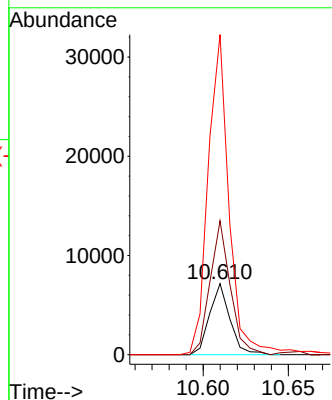
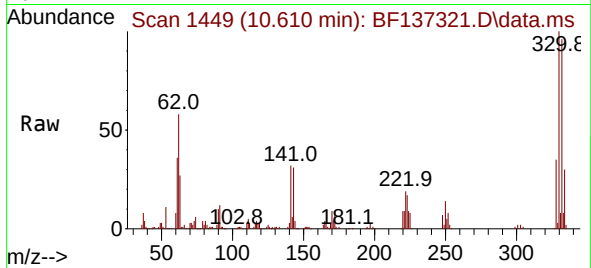




#67  
4-Bromophenyl-phenylether  
Concen: 3.513 ng  
RT: 10.610 min Scan# 1493  
Delta R.T. -0.259 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

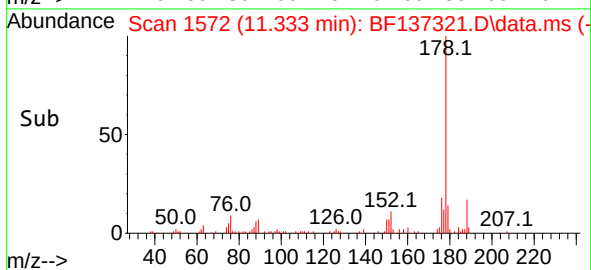
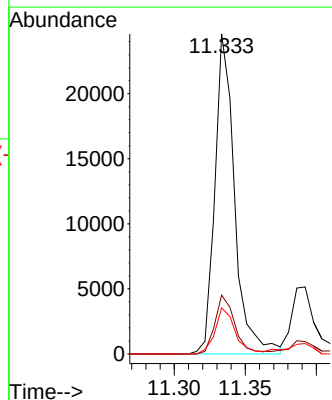
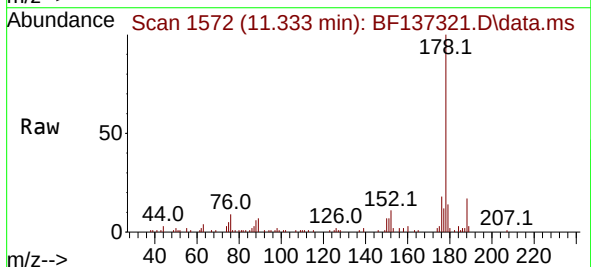
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

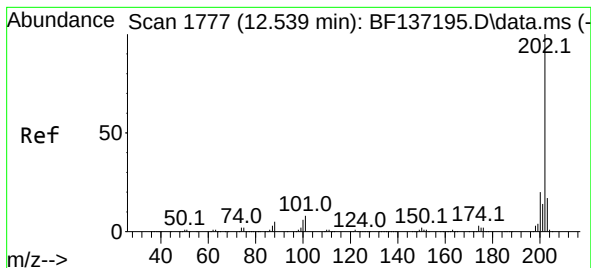
Tgt Ion:248 Resp: 5957  
Ion Ratio Lower Upper  
248 100  
250 188.7 77.7 116.5#  
141 450.9 51.6 77.4#



#71  
Phenanthrene  
Concen: 2.941 ng  
RT: 11.333 min Scan# 1572  
Delta R.T. -0.012 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:178 Resp: 23746  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.1 22.7  
179 14.4 12.1 18.1





#75

Fluoranthene

Concen: 5.060 ng

RT: 12.527 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

Instrument :

BNA\_F

ClientSampleId :

EB-5-6-8

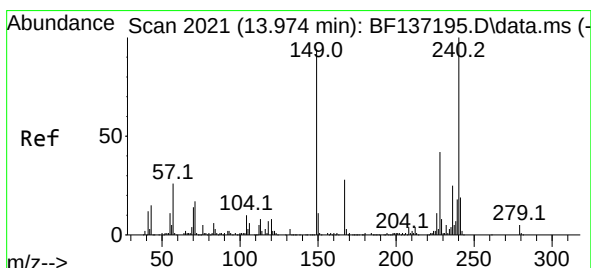
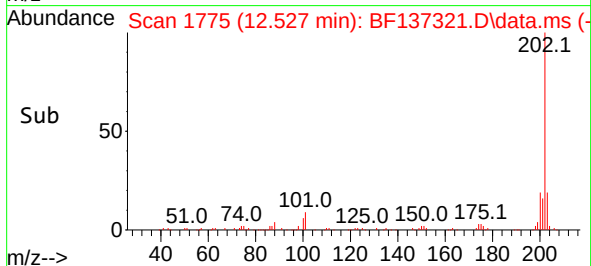
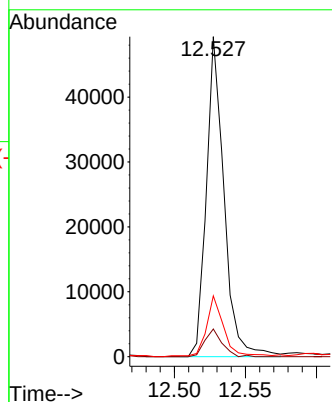
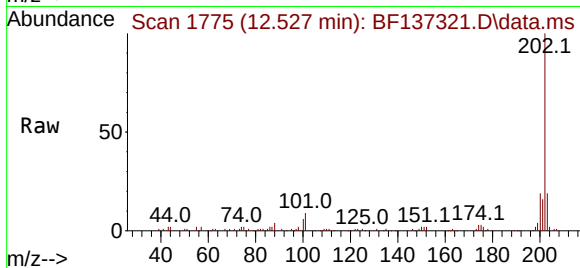
Tgt Ion:202 Resp: 42749

Ion Ratio Lower Upper

202 100

101 8.6 0.0 28.4

203 19.0 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.968 min Scan# 2020

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

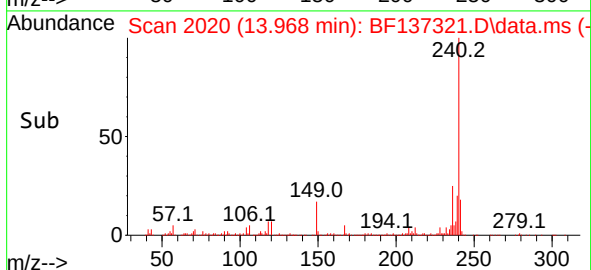
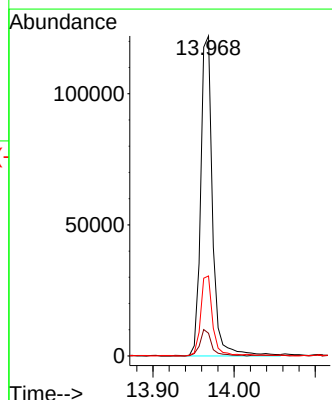
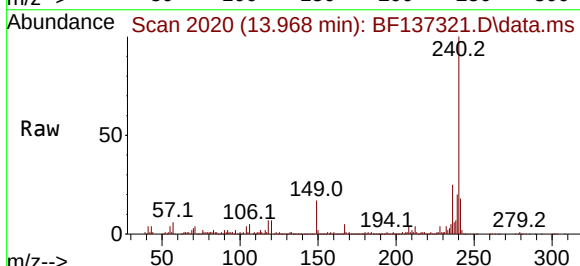
Tgt Ion:240 Resp: 124012

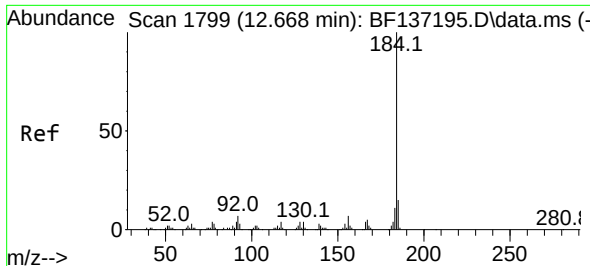
Ion Ratio Lower Upper

240 100

120 7.1 6.3 9.5

236 25.0 20.3 30.5

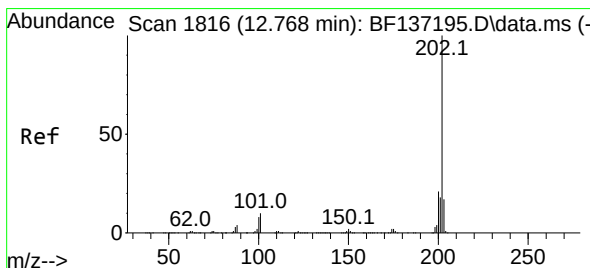
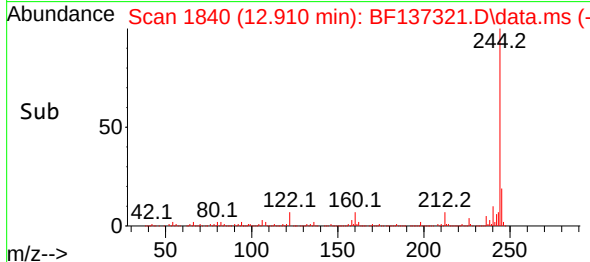
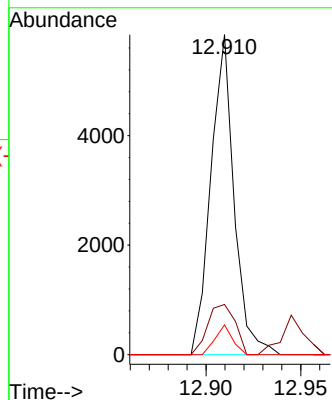
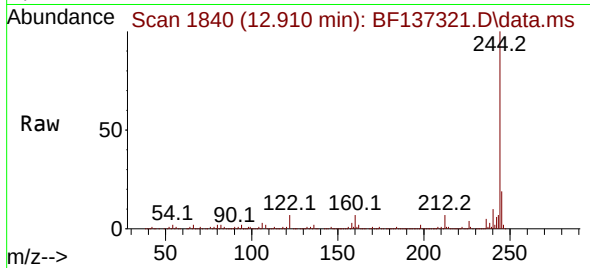




#77  
Benzidine  
Concen: 2.250 ng  
RT: 12.910 min Scan# 1840  
Delta R.T. 0.242 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

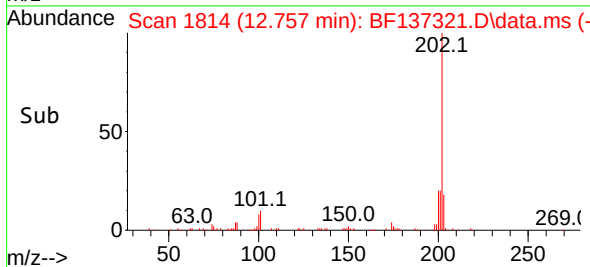
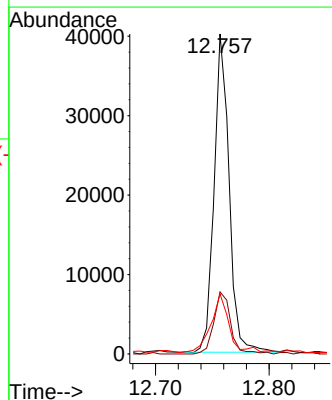
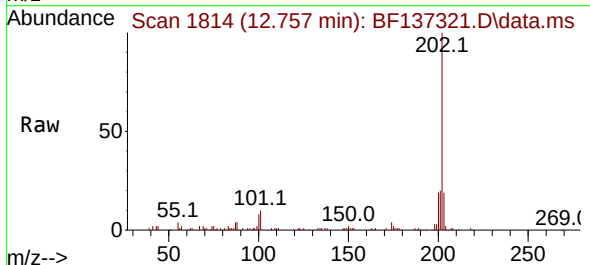
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

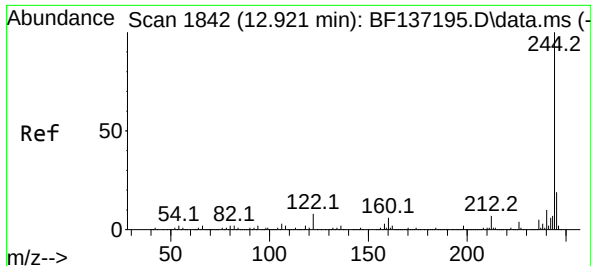
Tgt Ion:184 Resp: 4997  
Ion Ratio Lower Upper  
184 100  
185 15.7 11.9 17.9  
183 9.3 8.8 13.2



#78  
Pyrene  
Concen: 3.089 ng  
RT: 12.757 min Scan# 1814  
Delta R.T. -0.012 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:202 Resp: 36809  
Ion Ratio Lower Upper  
202 100  
200 19.4 16.5 24.7  
203 18.8 13.8 20.6

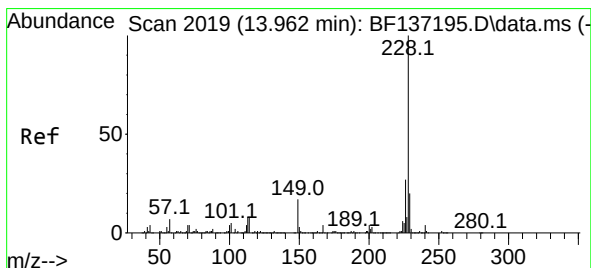
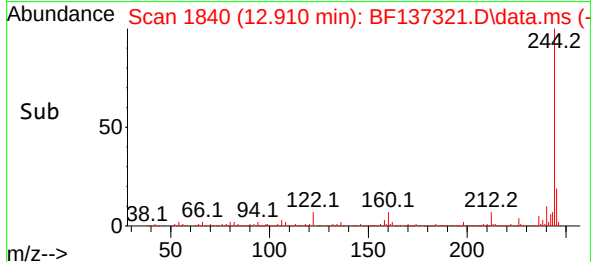
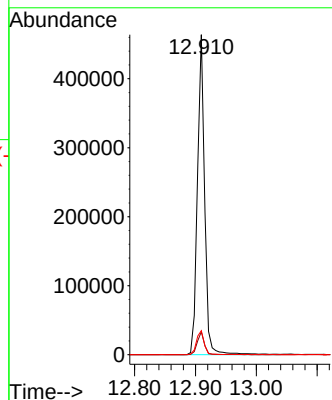
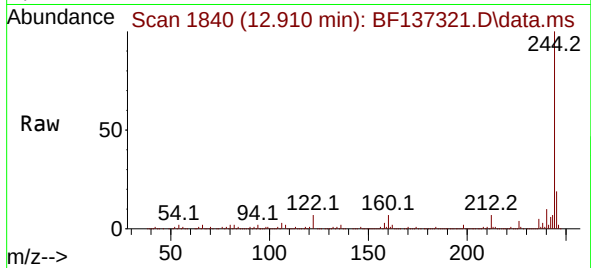




#79  
 Terphenyl-d14  
 Concen: 41.859 ng  
 RT: 12.910 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF137321.D  
 Acq: 07 Feb 2024 15:41

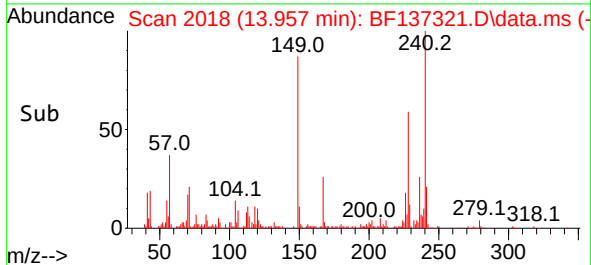
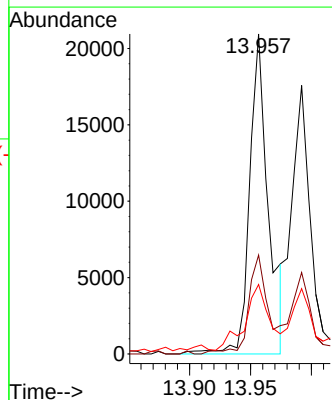
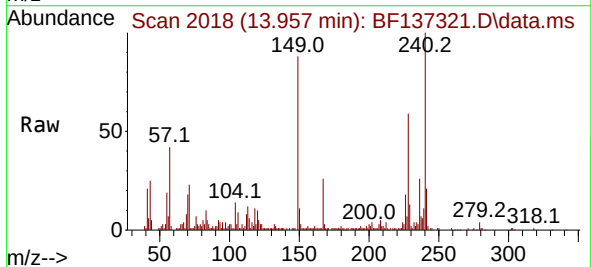
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EB-5-6-8

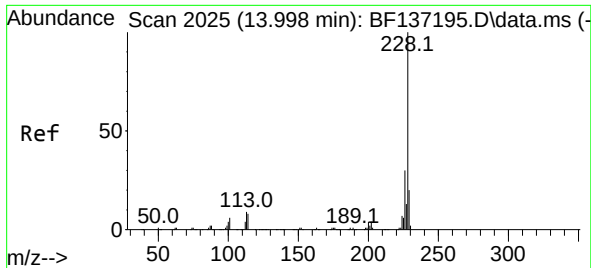
Tgt Ion:244 Resp: 381844  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.5 8.3  
 122 7.5 6.2 9.4



#81  
 Benzo(a)anthracene  
 Concen: 2.547 ng  
 RT: 13.957 min Scan# 2018  
 Delta R.T. -0.006 min  
 Lab File: BF137321.D  
 Acq: 07 Feb 2024 15:41

Tgt Ion:228 Resp: 22370  
 Ion Ratio Lower Upper  
 228 100  
 226 30.9 21.6 32.4  
 229 21.7 15.8 23.6

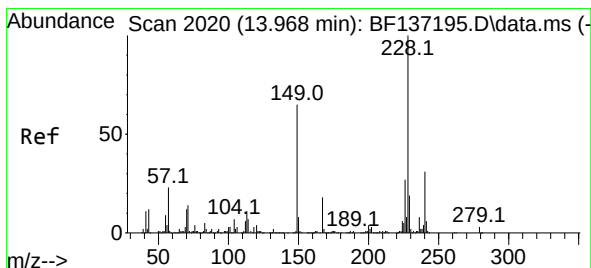
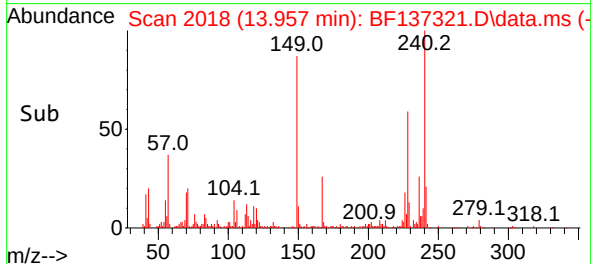
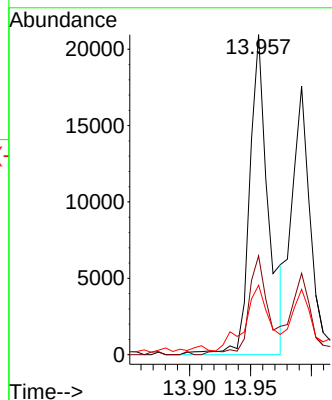
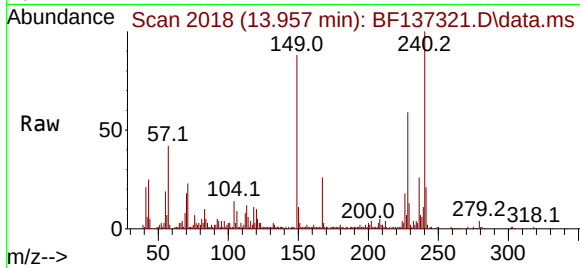




#83  
Chrysene  
Concen: 2.591 ng  
RT: 13.957 min Scan# 2018  
Delta R.T. -0.041 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

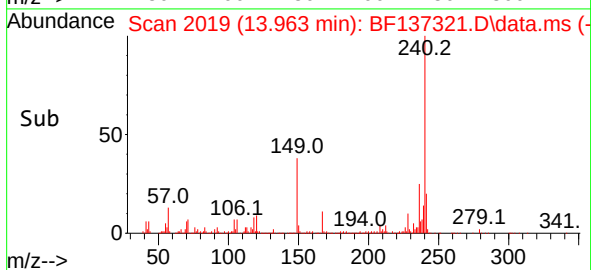
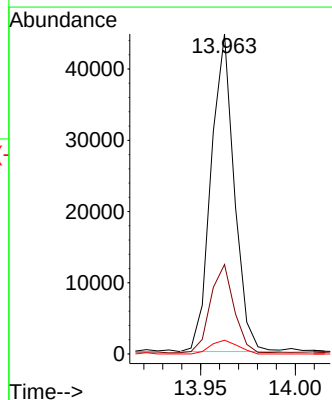
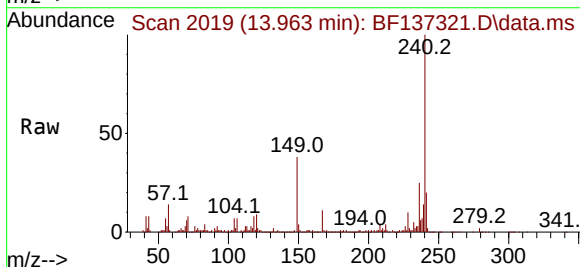
Instrument :  
BNA\_F  
ClientSampleId :  
EB-5-6-8

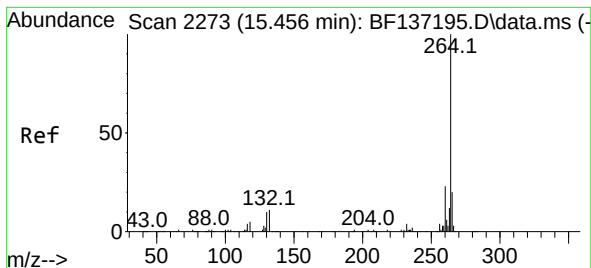
Tgt Ion:228 Resp: 22370  
Ion Ratio Lower Upper  
228 100  
226 30.9 23.7 35.5  
229 21.7 15.6 23.4



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 10.750 ng  
RT: 13.963 min Scan# 2019  
Delta R.T. -0.006 min  
Lab File: BF137321.D  
Acq: 07 Feb 2024 15:41

Tgt Ion:149 Resp: 38127  
Ion Ratio Lower Upper  
149 100  
167 28.0 21.7 32.5  
279 4.3 3.4 5.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

Instrument :

BNA\_F

ClientSampleId :

EB-5-6-8

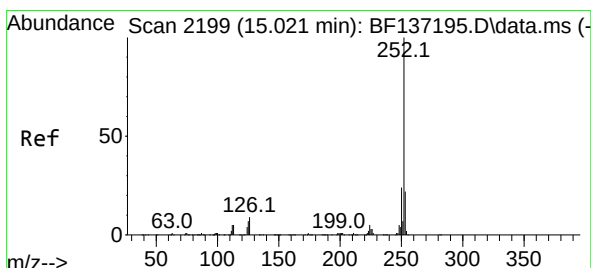
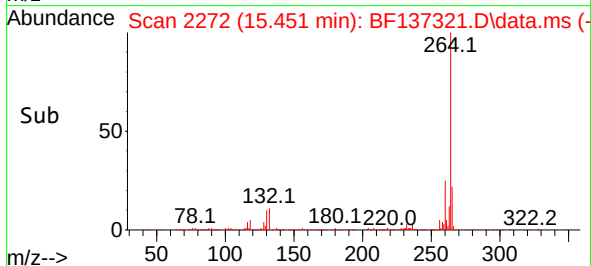
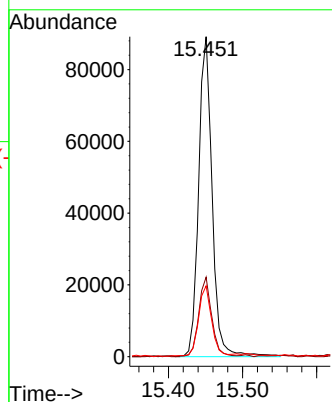
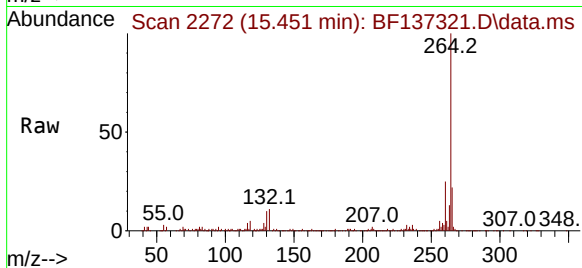
Tgt Ion:264 Resp: 112934

Ion Ratio Lower Upper

264 100

260 24.9 18.2 27.4

265 22.2 16.2 24.2



#88

Benzo(b)fluoranthene

Concen: 4.509 ng

RT: 15.015 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

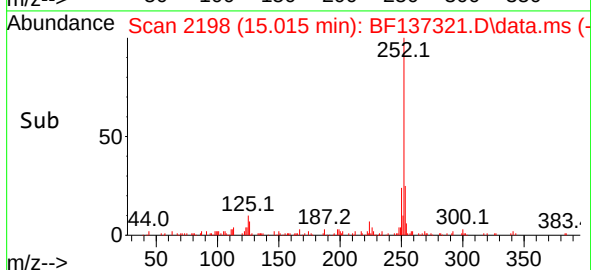
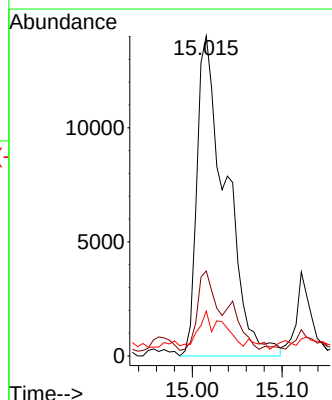
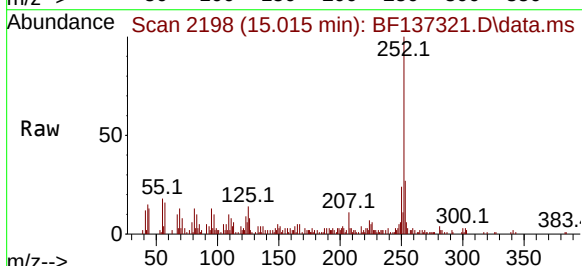
Tgt Ion:252 Resp: 31313

Ion Ratio Lower Upper

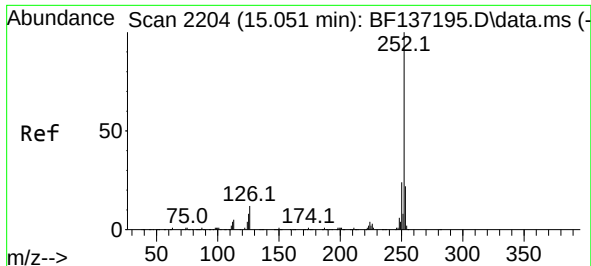
252 100

253 26.6 17.9 26.9

125 14.1 5.4 8.2#







#89

Benzo(k)fluoranthene

Concen: 4.262 ng

RT: 15.015 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

Instrument :

BNA\_F

ClientSampleId :

EB-5-6-8

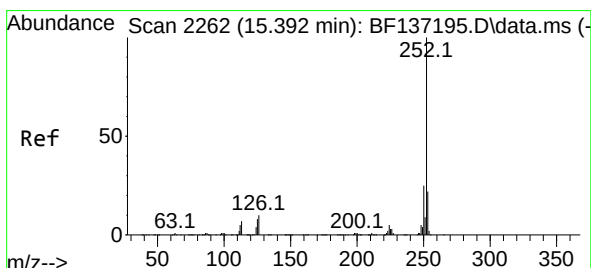
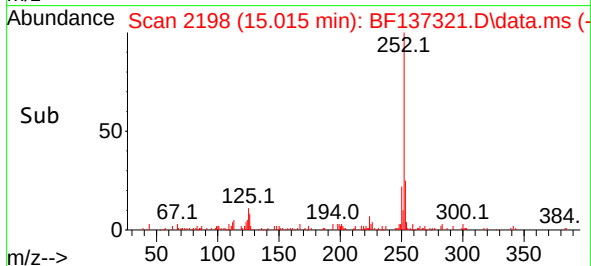
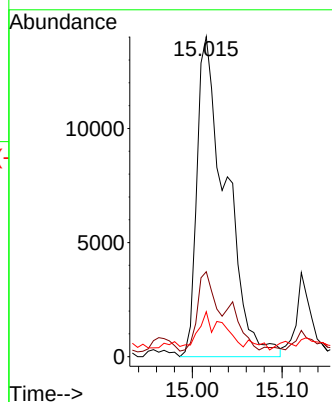
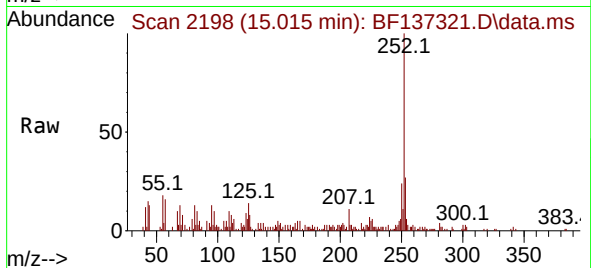
Tgt Ion:252 Resp: 31313

Ion Ratio Lower Upper

252 100

253 26.6 17.0 25.6#

125 14.1 5.9 8.9#



#90

Benzo(a)pyrene

Concen: 2.179 ng

RT: 15.386 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF137321.D

Acq: 07 Feb 2024 15:41

Tgt Ion:252 Resp: 14241

Ion Ratio Lower Upper

252 100

253 21.9 17.8 26.6

125 13.7 6.5 9.7#

