

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121222\  
 Data File : BF131604.D  
 Acq On : 12 Dec 2022 21:18  
 Operator : CG\JU  
 Sample : N5988-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11938

Quant Time: Dec 13 04:18:22 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 13 04:12:13 2022  
 Response via : Initial Calibration

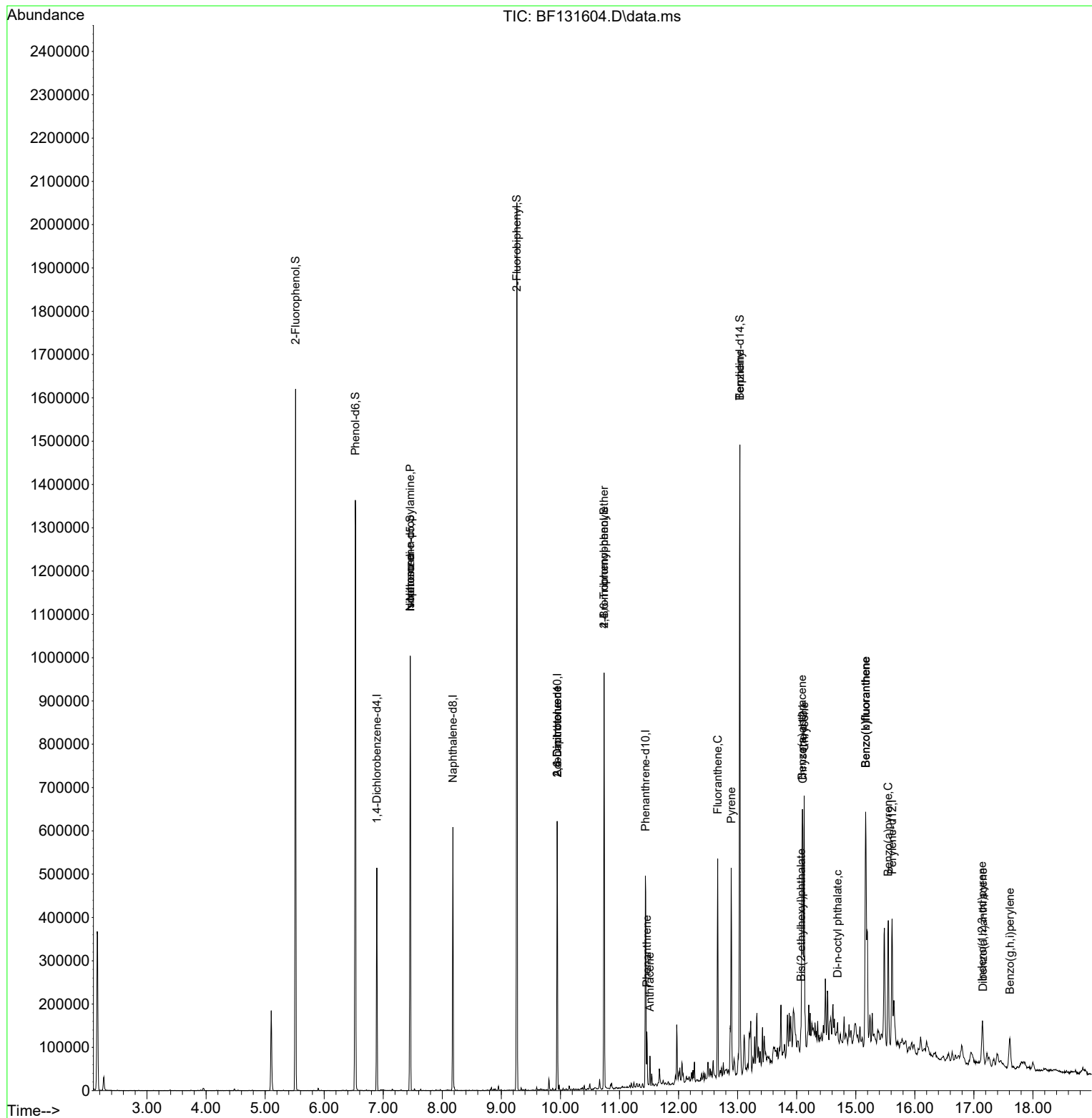
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.892  | 152  | 63244    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.180  | 136  | 216352   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.945  | 164  | 112714   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.439 | 188  | 177601   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.104 | 240  | 133593   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.615 | 264  | 131131   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 370642   | 97.770 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.528  | 99   | 474610   | 95.538 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.457  | 82   | 329368   | 57.556 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.739 | 330  | 96202    | 76.821 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.263  | 172  | 547122   | 61.204 | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.039 | 244  | 451405   | 46.339 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.457  | 70   | 45180    | 12.129 | ng    | # 80     |
| 25) Isophorone                | 7.457  | 82   | 329363   | 35.732 | ng    | # 69     |
| 51) 2,6-Dinitrotoluene        | 9.945  | 165  | 14069    | 7.931  | ng    | # 10     |
| 57) 2,4-Dinitrotoluene        | 9.945  | 165  | 14069    | 5.979  | ng    | # 16     |
| 67) 4-Bromophenyl-phenylether | 10.739 | 248  | 6684     | 2.926  | ng    | # 1      |
| 71) Phenanthrene              | 11.463 | 178  | 38447    | 3.884  | ng    | 97       |
| 72) Anthracene                | 11.516 | 178  | 23711    | 2.462  | ng    | 99       |
| 75) Fluoranthene              | 12.663 | 202  | 180119   | 17.670 | ng    | 98       |
| 77) Benzidine                 | 13.039 | 184  | 7282     | 2.034  | ng    | 98       |
| 78) Pyrene                    | 12.892 | 202  | 183793   | 13.952 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.092 | 228  | 163244   | 16.921 | ng    | 96       |
| 83) Chrysene                  | 14.127 | 228  | 228774   | 24.943 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.074 | 149  | 1966     | 3.387  | ng    | # 80     |
| 85) Di-n-octyl phthalate      | 14.692 | 149  | 2273     | 5.457  | ng    | # 1      |
| 87) Indeno(1,2,3-cd)pyrene    | 17.139 | 276  | 68304    | 6.383  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.168 | 252  | 418660   | 48.441 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.168 | 252  | 418660   | 46.410 | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.551 | 252  | 146543   | 19.868 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.156 | 278  | 19711    | 2.238  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 17.609 | 276  | 57204    | 6.462  | ng    | # 95     |
| -----                         |        |      |          |        |       |          |

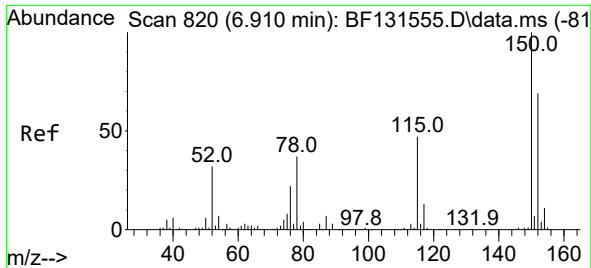
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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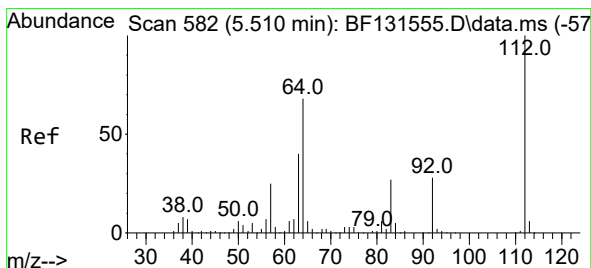
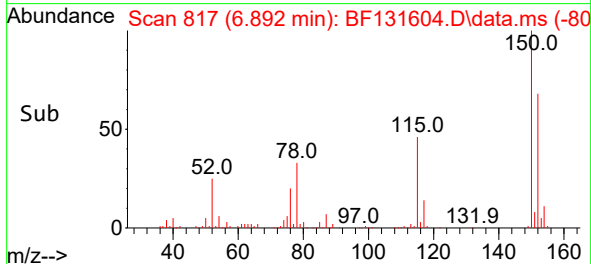
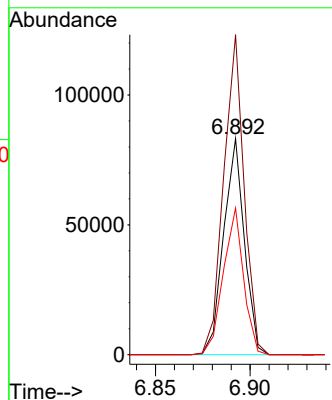
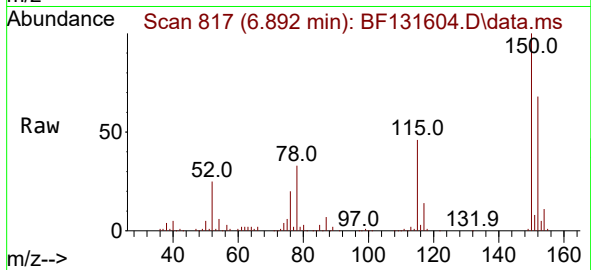




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.892 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

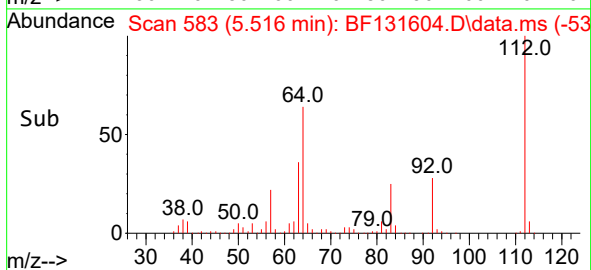
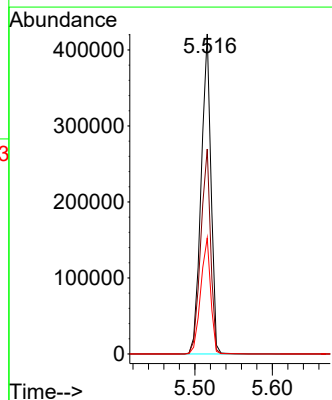
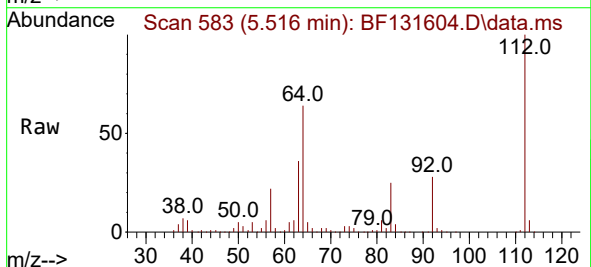
Instrument :  
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 ClientSampleId :  
 72-11938

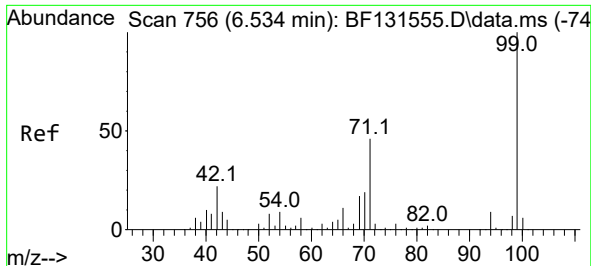
Tgt Ion:152 Resp: 63244  
 Ion Ratio Lower Upper  
 152 100  
 150 148.0 116.7 175.1  
 115 67.8 54.6 82.0



#5  
 2-Fluorophenol  
 Concen: 97.770 ng  
 RT: 5.516 min Scan# 583  
 Delta R.T. 0.006 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

Tgt Ion:112 Resp: 370642  
 Ion Ratio Lower Upper  
 112 100  
 64 64.0 54.5 81.7  
 63 36.2 31.9 47.9

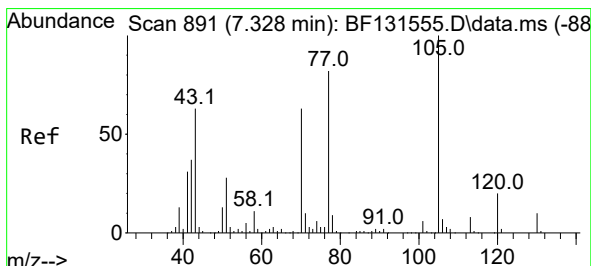
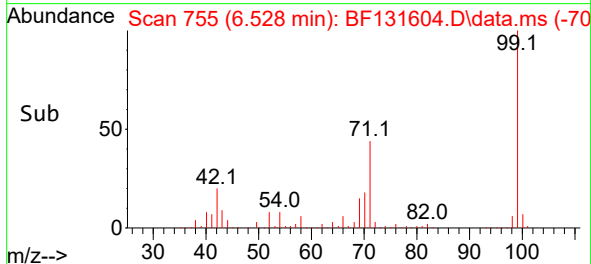
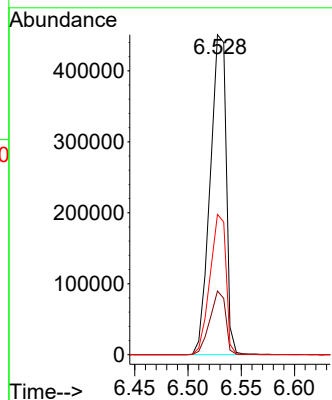
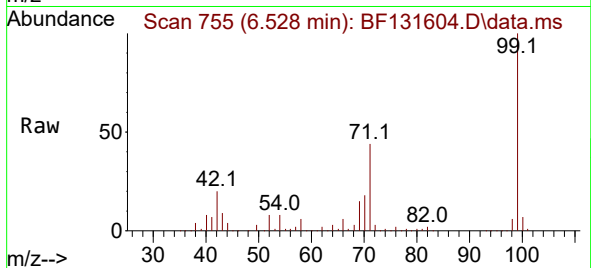




#7  
Phenol-d6  
Concen: 95.538 ng  
RT: 6.528 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

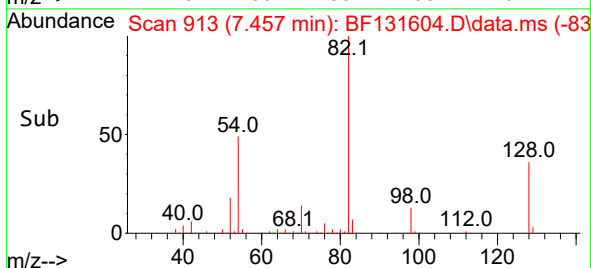
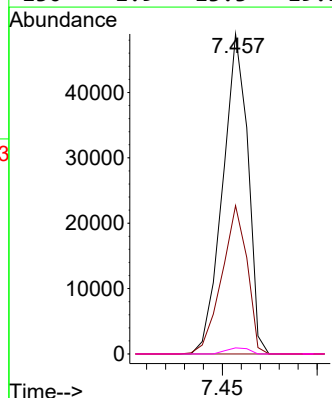
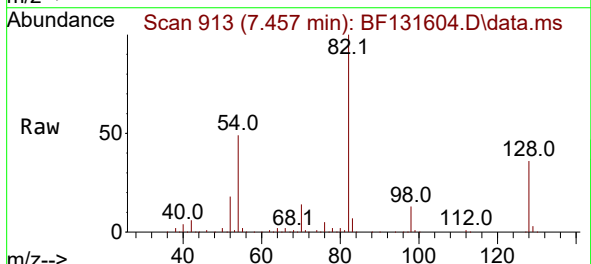
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

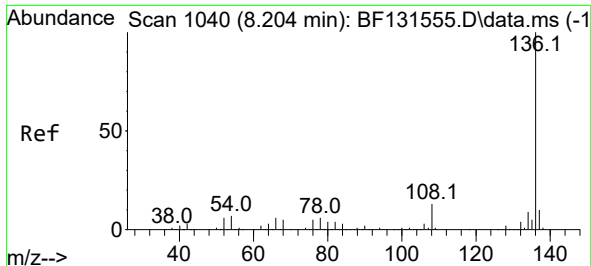
Tgt Ion: 99 Resp: 474610  
Ion Ratio Lower Upper  
99 100  
42 19.9 17.9 26.9  
71 43.8 37.2 55.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.129 ng  
RT: 7.457 min Scan# 913  
Delta R.T. 0.141 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion: 70 Resp: 45180  
Ion Ratio Lower Upper  
70 100  
42 46.4 46.4 69.6#  
101 0.0 7.2 10.8#  
130 1.9 13.3 19.9#

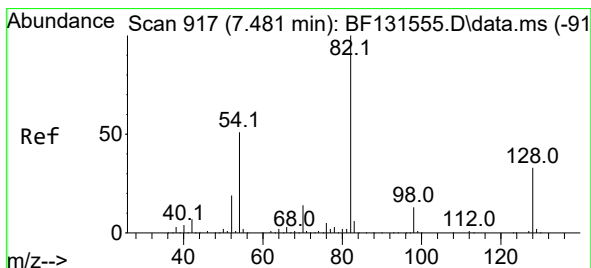
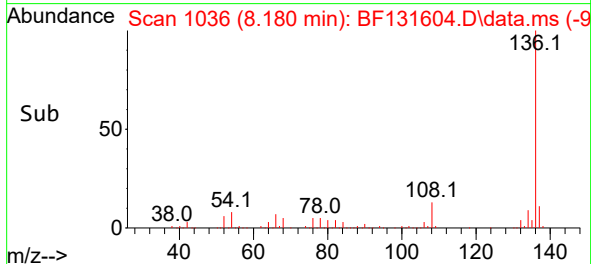
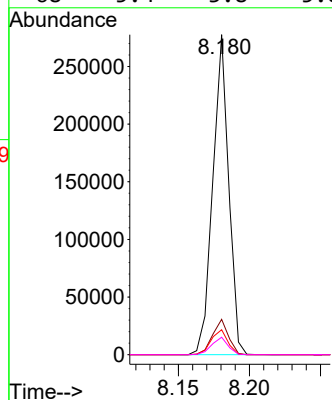
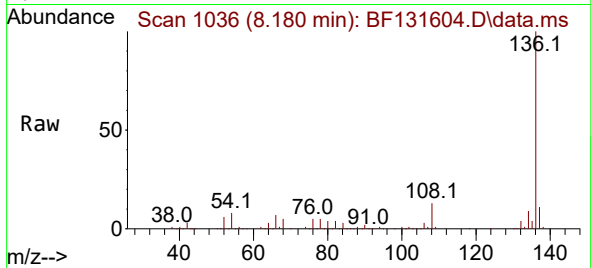




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.180 min Scan# 1040  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

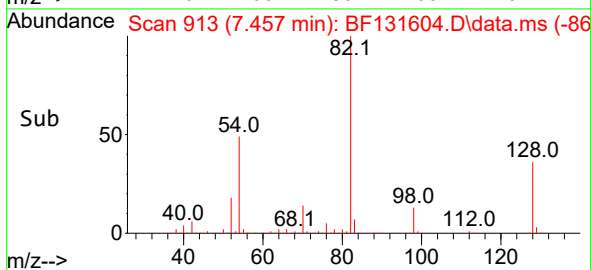
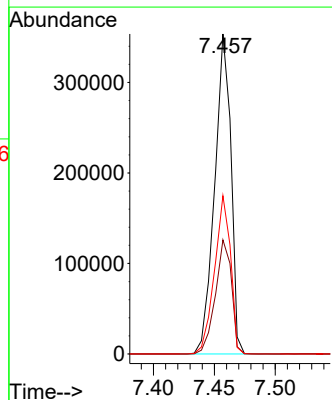
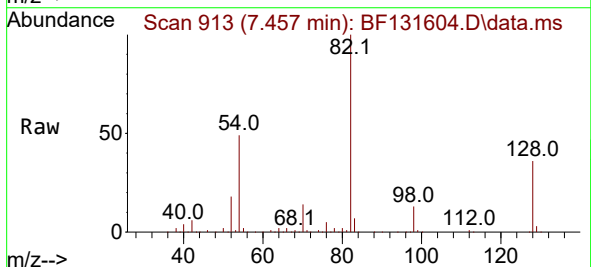
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

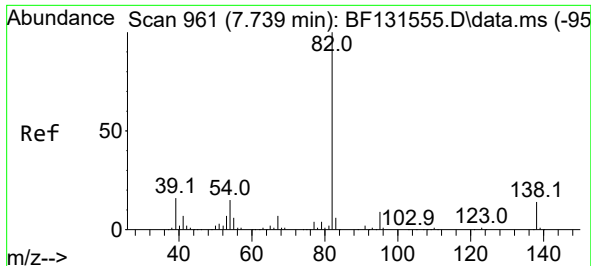
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:136 | Resp: | 216352 |
| Ion | Ratio   | Lower | Upper  |
| 136 | 100     |       |        |
| 137 | 11.1    | 8.1   | 12.1   |
| 54  | 7.8     | 6.0   | 9.0    |
| 68  | 5.4     | 3.8   | 5.8    |



#23  
Nitrobenzene-d5  
Concen: 57.556 ng  
RT: 7.457 min Scan# 913  
Delta R.T. -0.012 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 329368 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 35.6    | 26.1 39.1    |
| 54 49.5     | 40.6 60.8    |

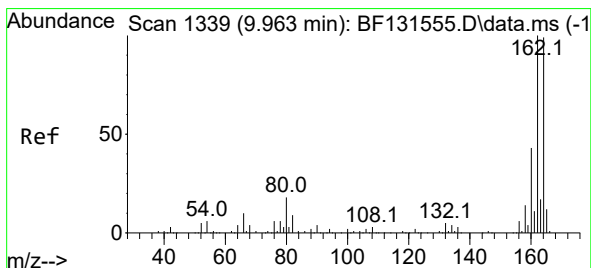
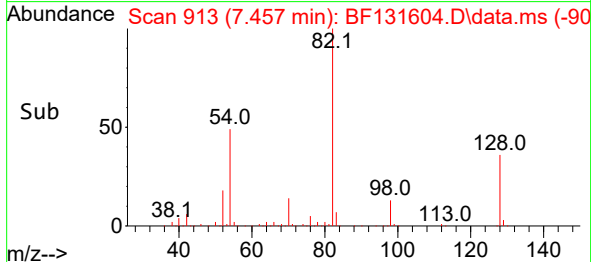
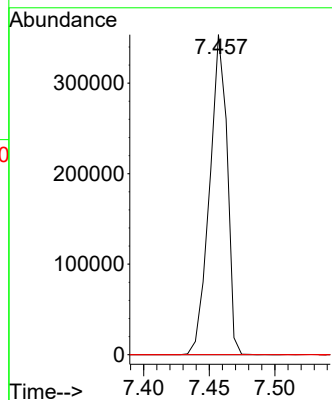
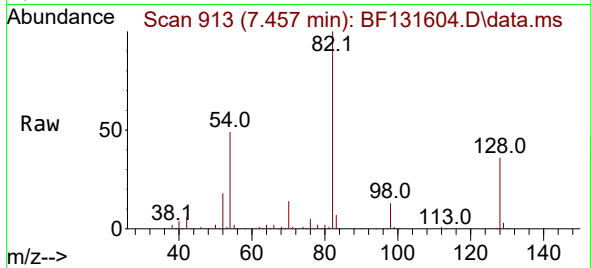




#25  
Isophorone  
Concen: 35.732 ng  
RT: 7.457 min Scan# 91  
Delta R.T. -0.265 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

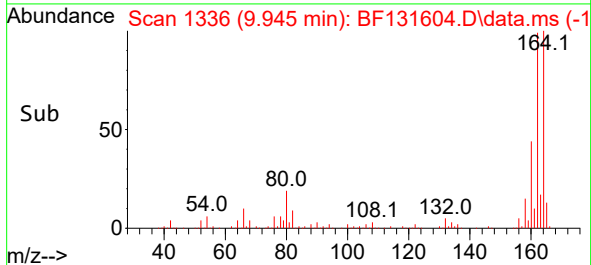
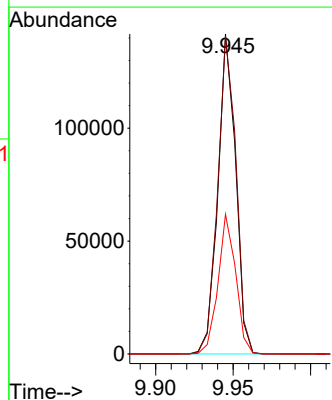
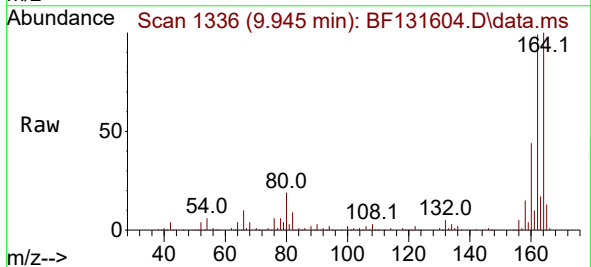
Instrument :  
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72-11938

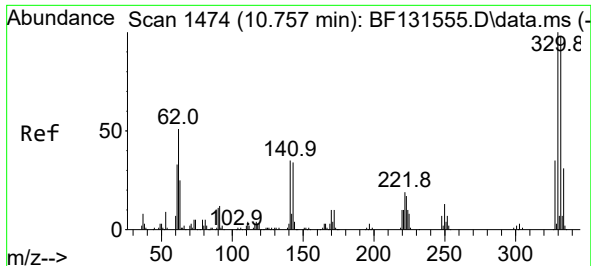
Tgt Ion: 82 Resp: 329363  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.9 10.3#  
138 0.0 11.4 17.0#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.945 min Scan# 1336  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:164 Resp: 112714  
Ion Ratio Lower Upper  
164 100  
162 99.3 81.0 121.6  
160 43.7 35.0 52.6





#42

2,4,6-Tribromophenol

Concen: 76.821 ng

RT: 10.739 min Scan# 1474

Delta R.T. -0.012 min

Lab File: BF131604.D

Acq: 12 Dec 2022 21:18

Instrument :

BNA\_F

ClientSampleId :

72-11938

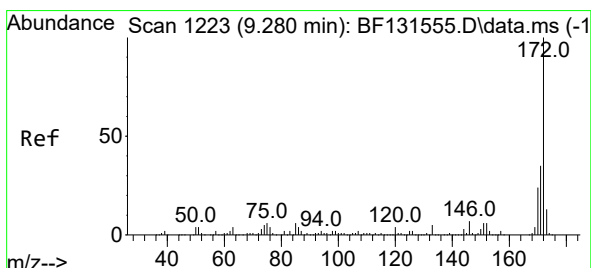
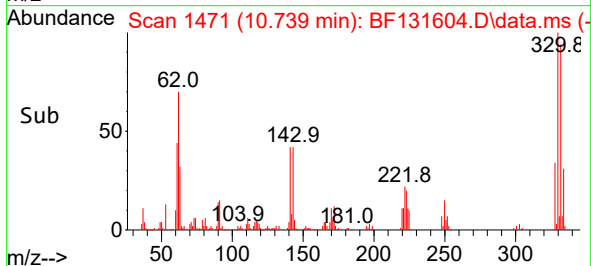
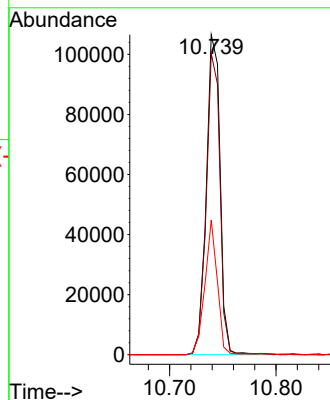
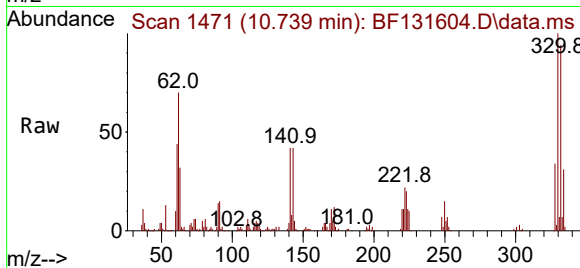
Tgt Ion:330 Resp: 96202

Ion Ratio Lower Upper

330 100

332 93.2 78.3 117.5

141 37.8 32.6 49.0



#45

2-Fluorobiphenyl

Concen: 61.204 ng

RT: 9.263 min Scan# 1220

Delta R.T. -0.006 min

Lab File: BF131604.D

Acq: 12 Dec 2022 21:18

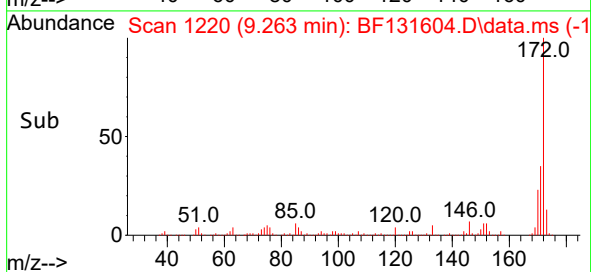
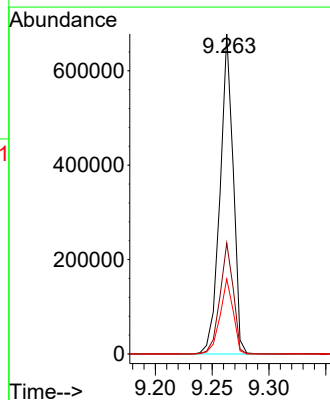
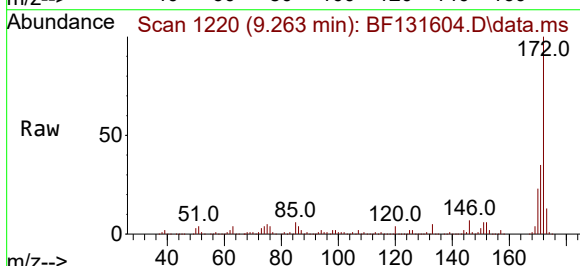
Tgt Ion:172 Resp: 547122

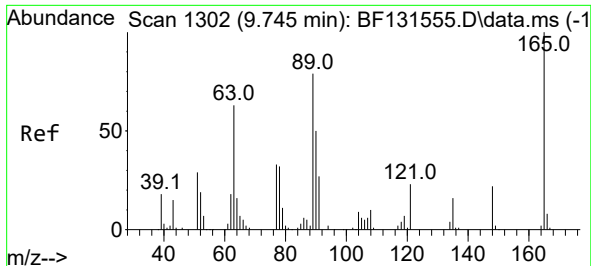
Ion Ratio Lower Upper

172 100

171 34.7 28.3 42.5

170 23.5 19.3 28.9

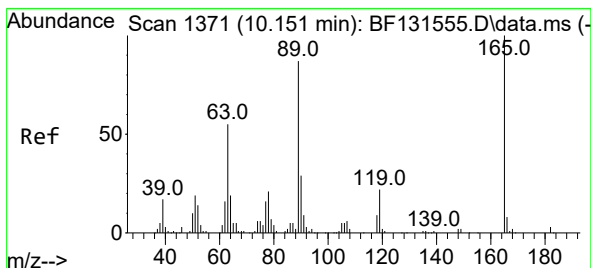
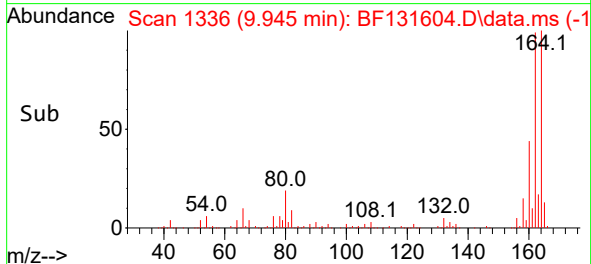
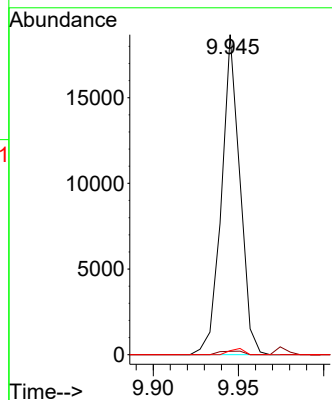
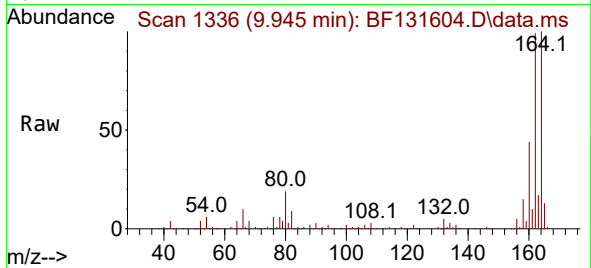




#51  
2,6-Dinitrotoluene  
Concen: 7.931 ng  
RT: 9.945 min Scan# 11  
Delta R.T. 0.206 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

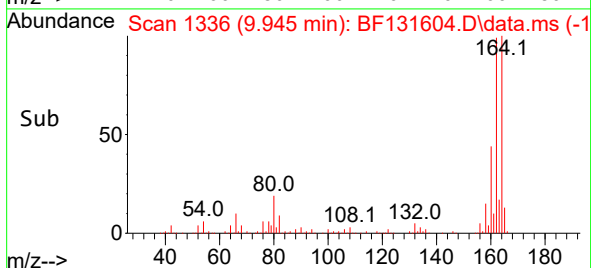
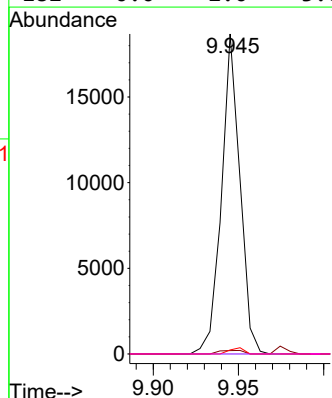
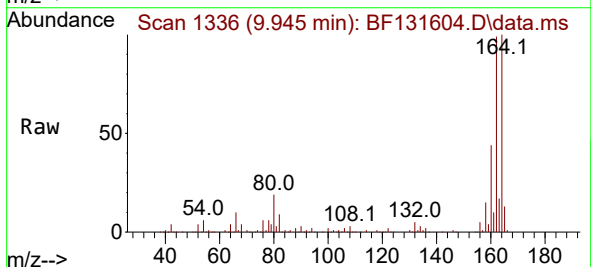
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

Tgt Ion:165 Resp: 14069  
Ion Ratio Lower Upper  
165 100  
63 1.1 67.9 101.9#  
89 1.2 63.2 94.8#

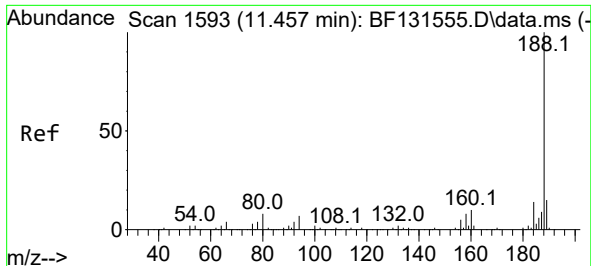


#57  
2,4-Dinitrotoluene  
Concen: 5.979 ng  
RT: 9.945 min Scan# 1336  
Delta R.T. -0.200 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:165 Resp: 14069  
Ion Ratio Lower Upper  
165 100  
63 1.1 44.4 66.6#  
89 1.2 69.6 104.4#  
182 0.0 2.0 3.0#



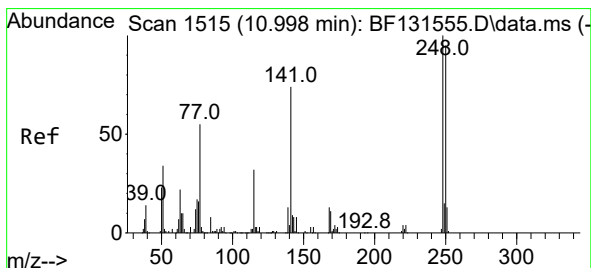
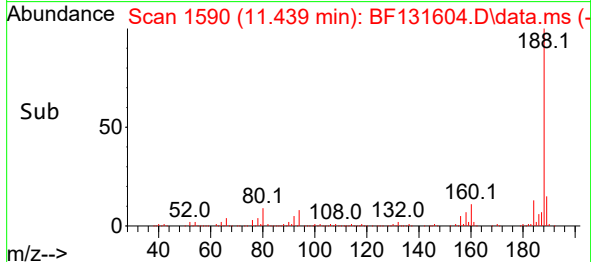
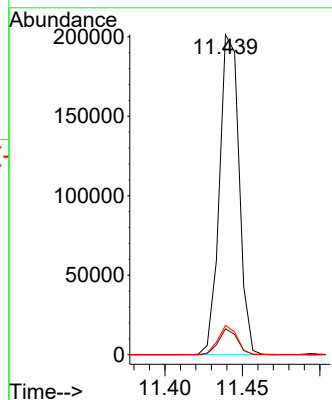
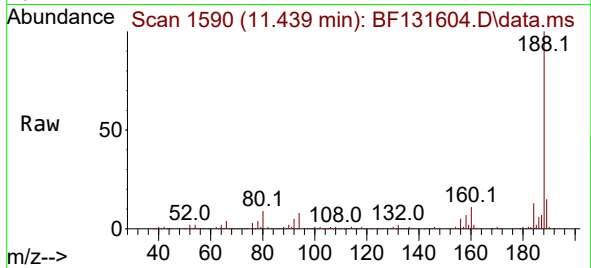




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.439 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

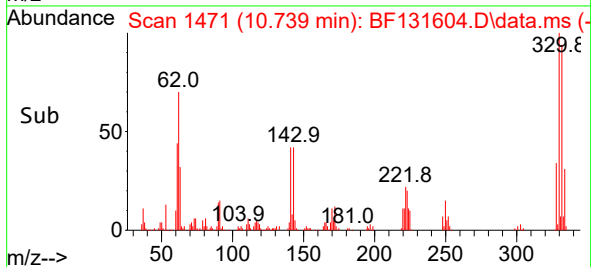
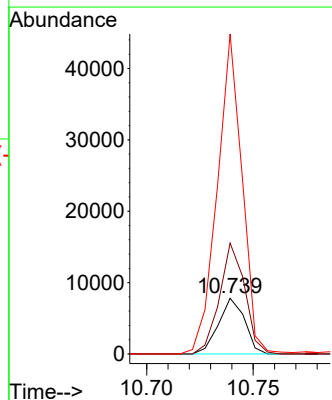
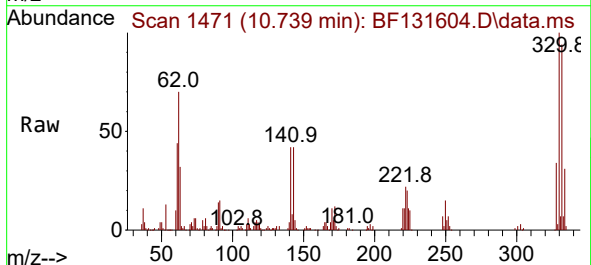
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

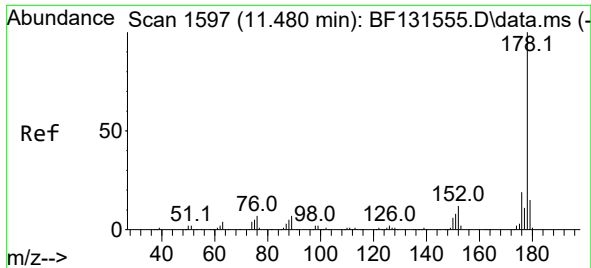
Tgt Ion:188 Resp: 177601  
Ion Ratio Lower Upper  
188 100  
94 8.1 5.5 8.3  
80 9.2 6.6 10.0



#67  
4-Bromophenyl-phenylether  
Concen: 2.926 ng  
RT: 10.739 min Scan# 1471  
Delta R.T. -0.253 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:248 Resp: 6684  
Ion Ratio Lower Upper  
248 100  
250 198.8 76.2 114.2#  
141 573.8 59.5 89.3#

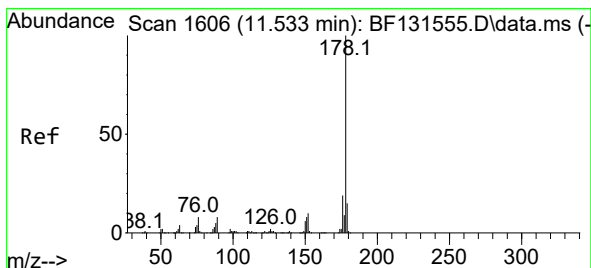
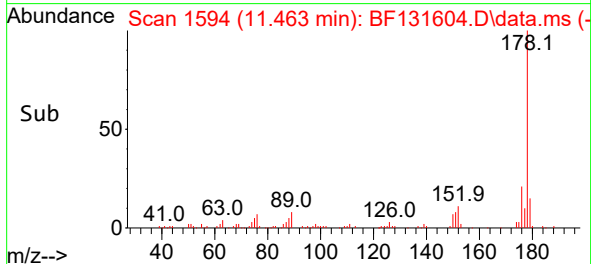
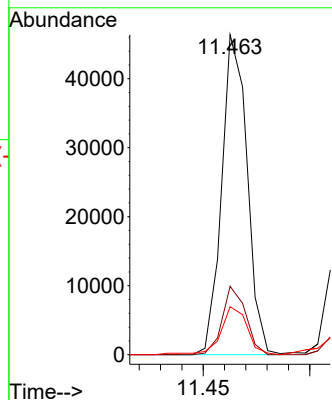
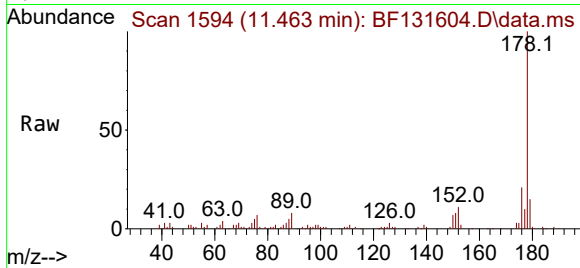




#71  
Phenanthrene  
Concen: 3.884 ng  
RT: 11.463 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

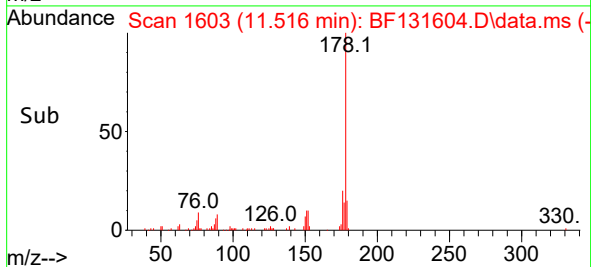
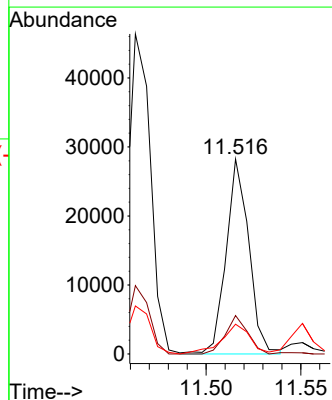
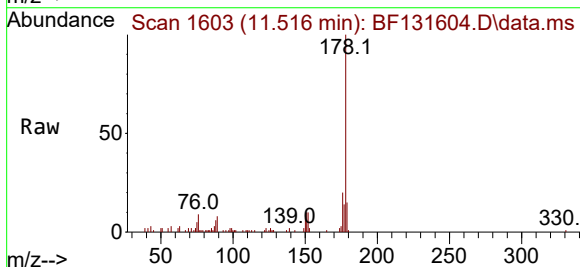
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

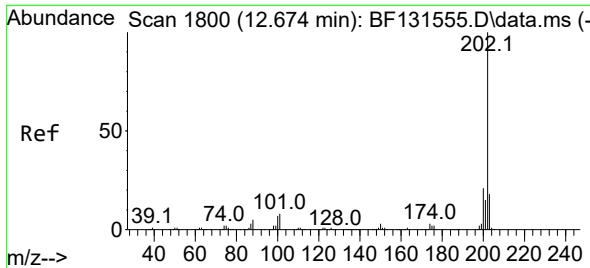
Tgt Ion:178 Resp: 38447  
Ion Ratio Lower Upper  
178 100  
176 21.3 15.4 23.0  
179 15.0 12.2 18.4



#72  
Anthracene  
Concen: 2.462 ng  
RT: 11.516 min Scan# 1603  
Delta R.T. -0.012 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:178 Resp: 23711  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.0 22.6  
179 15.3 12.3 18.5

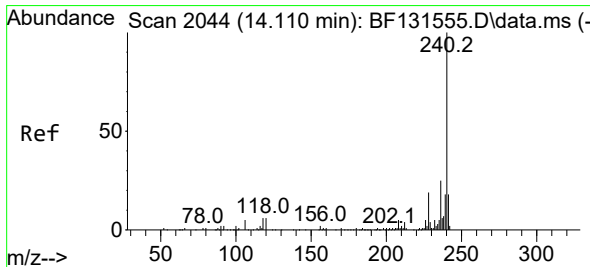
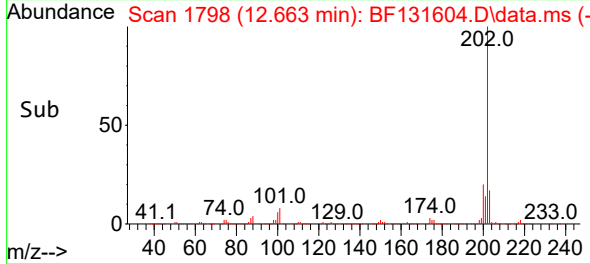
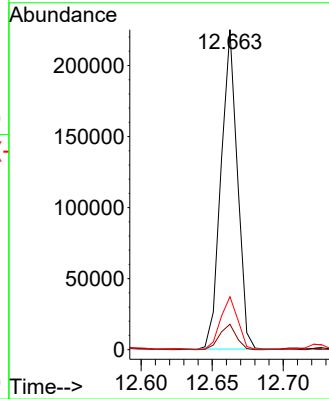
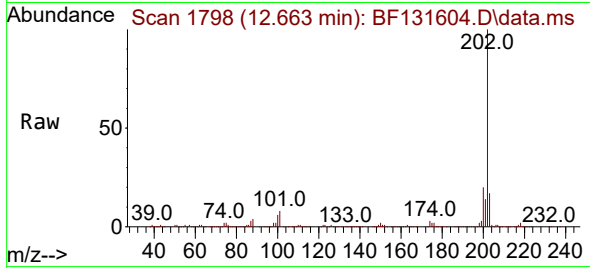




#75  
Fluoranthene  
Concen: 17.670 ng  
RT: 12.663 min Scan# 1798  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

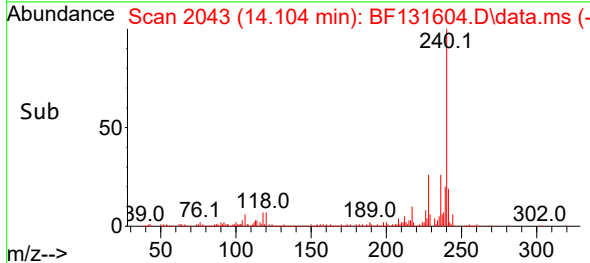
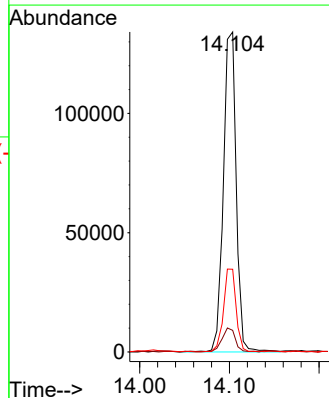
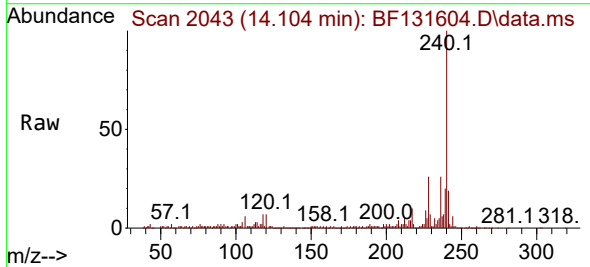
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

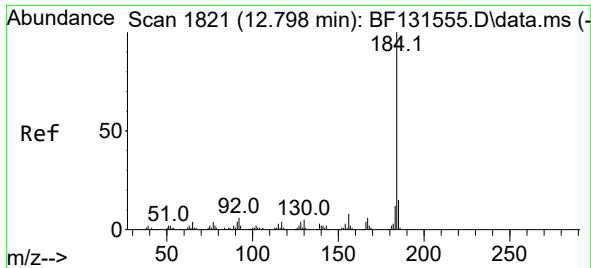
Tgt Ion:202 Resp: 180119  
Ion Ratio Lower Upper  
202 100  
101 8.0 0.0 27.7  
203 16.6 0.0 37.7



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.000 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:240 Resp: 133593  
Ion Ratio Lower Upper  
240 100  
120 6.8 4.6 7.0  
236 25.9 20.2 30.2

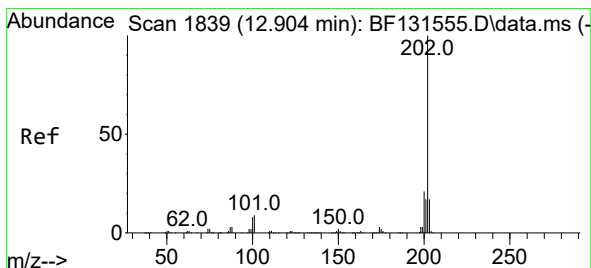
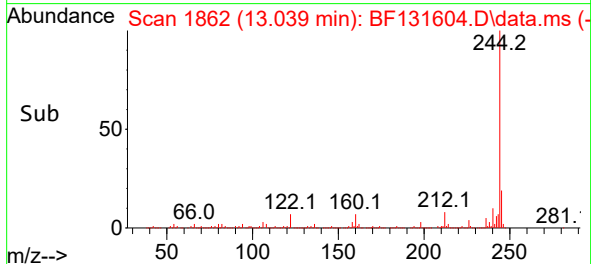
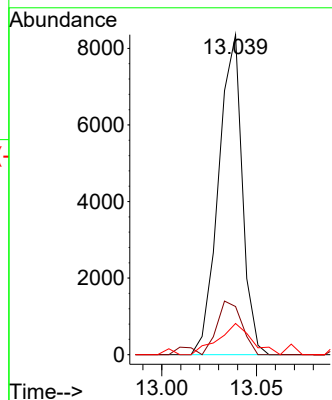
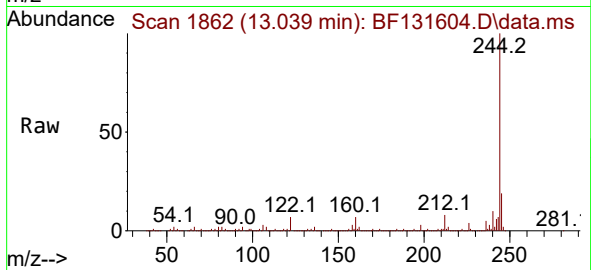




#77  
Benzidine  
Concen: 2.034 ng  
RT: 13.039 min Scan# 1862  
Delta R.T. 0.247 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

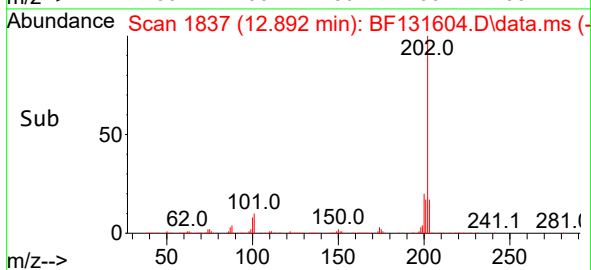
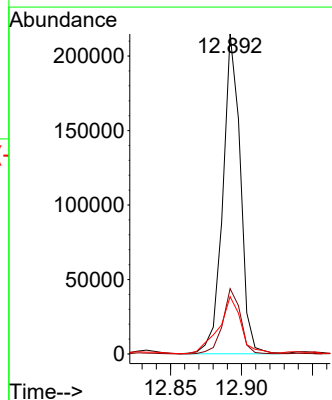
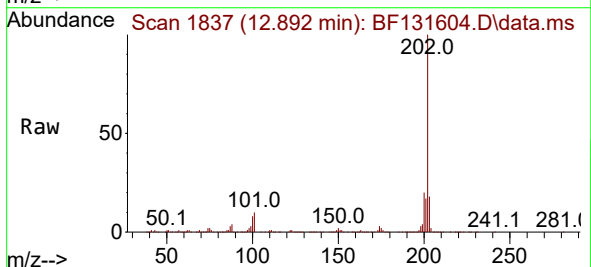
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

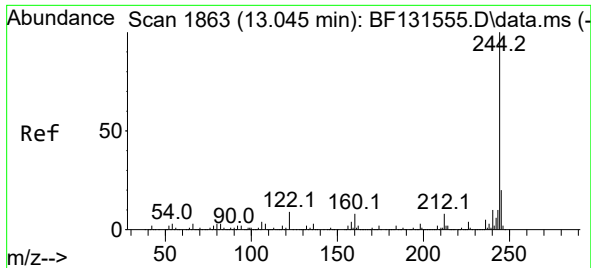
Tgt Ion:184 Resp: 7282  
Ion Ratio Lower Upper  
184 100  
185 15.0 12.2 18.2  
183 9.8 9.3 13.9



#78  
Pyrene  
Concen: 13.952 ng  
RT: 12.892 min Scan# 1837  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:202 Resp: 183793  
Ion Ratio Lower Upper  
202 100  
200 20.4 16.7 25.1  
203 17.9 13.8 20.6

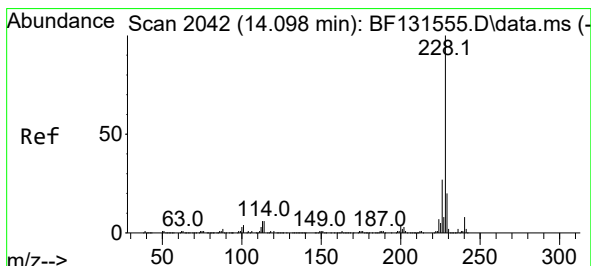
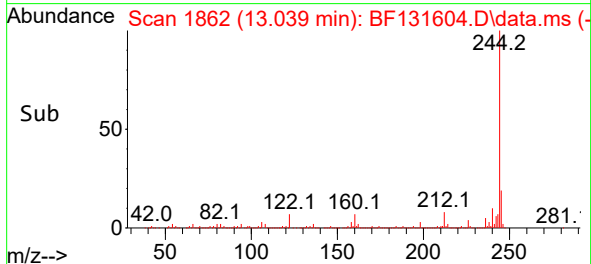
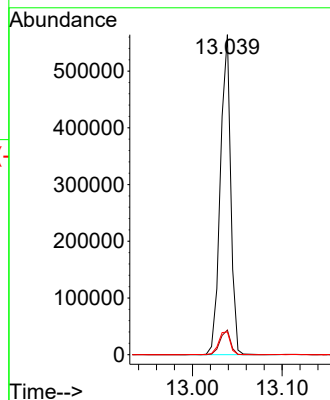
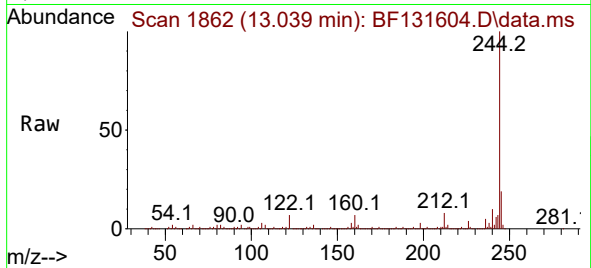




#79  
 Terphenyl-d14  
 Concen: 46.339 ng  
 RT: 13.039 min Scan# 1862  
 Delta R.T. -0.006 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

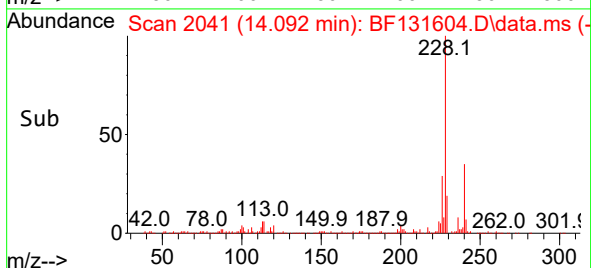
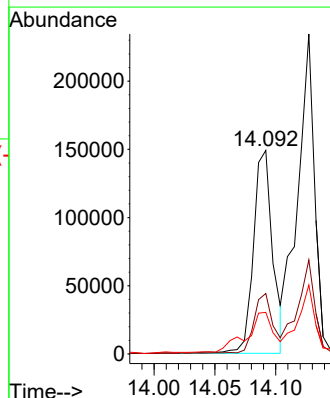
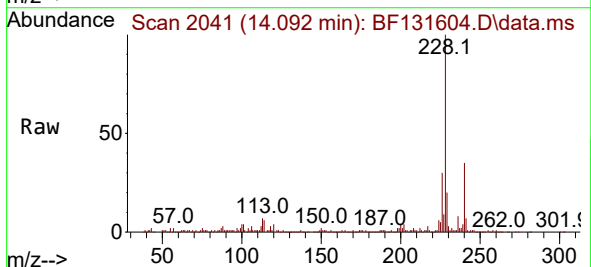
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11938

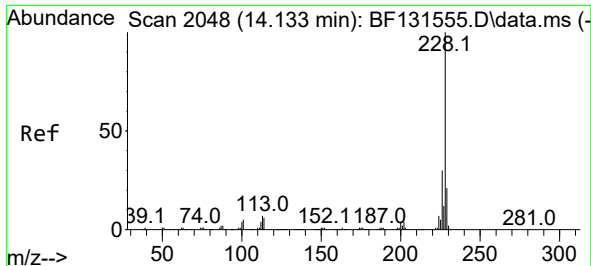
Tgt Ion:244 Resp: 451405  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.5 9.7  
 122 7.1 7.1 10.7#



#81  
 Benzo(a)anthracene  
 Concen: 16.921 ng  
 RT: 14.092 min Scan# 2041  
 Delta R.T. -0.000 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

Tgt Ion:228 Resp: 163244  
 Ion Ratio Lower Upper  
 228 100  
 226 29.7 21.5 32.3  
 229 20.5 15.8 23.6

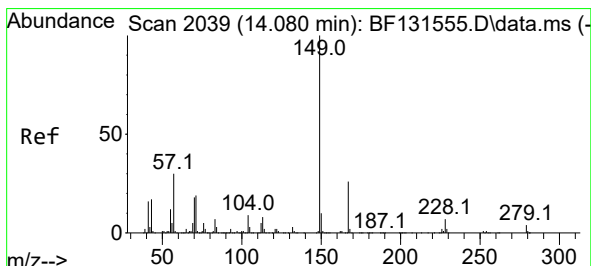
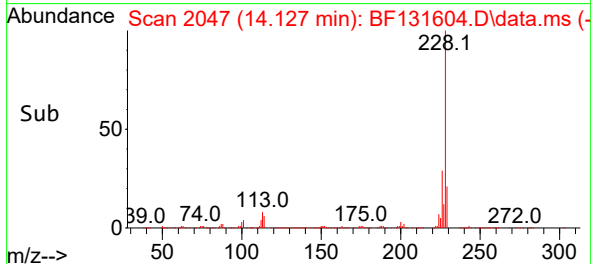
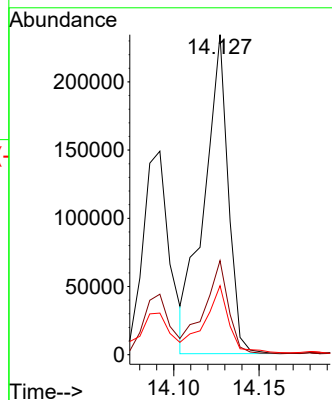
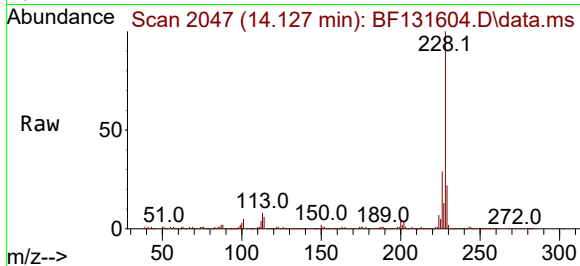




#83  
Chrysene  
Concen: 24.943 ng  
RT: 14.127 min Scan# 2048  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

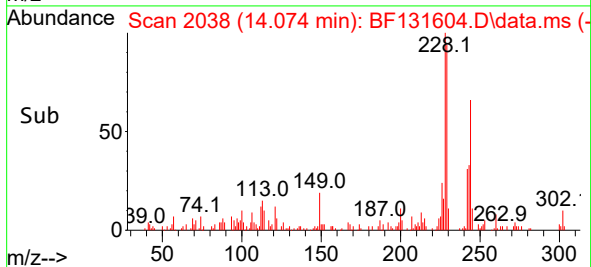
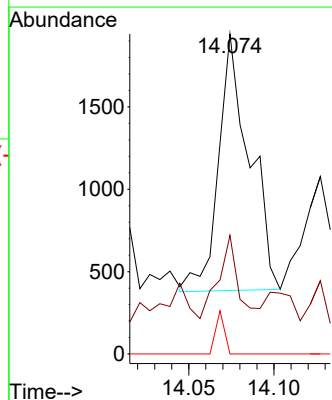
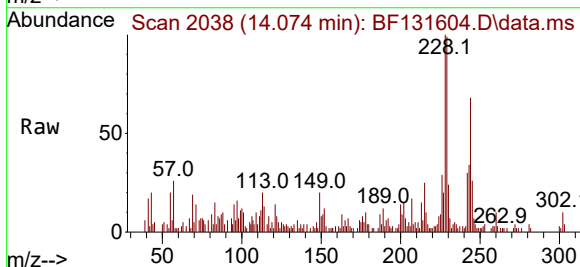
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

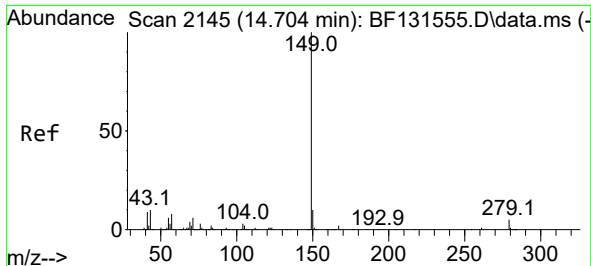
Tgt Ion:228 Resp: 228774  
Ion Ratio Lower Upper  
228 100  
226 29.4 23.9 35.9  
229 21.6 16.7 25.1



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 3.387 ng  
RT: 14.074 min Scan# 2038  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:149 Resp: 1966  
Ion Ratio Lower Upper  
149 100  
167 37.1 20.8 31.2#  
279 0.0 3.3 4.9#

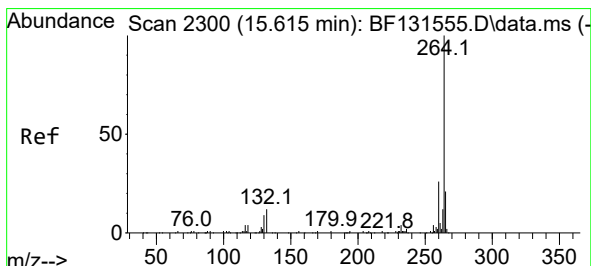
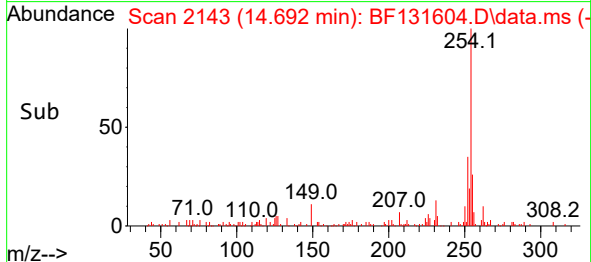
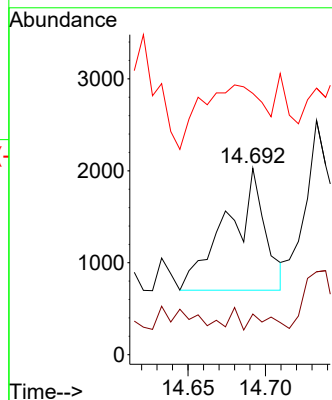
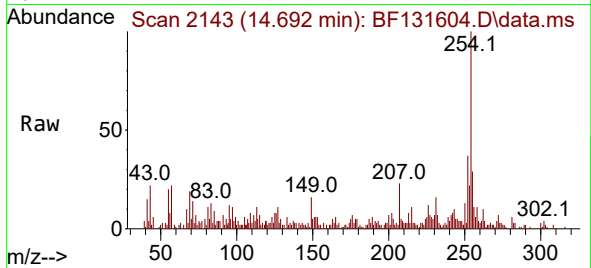




#85  
Di-n-octyl phthalate  
Concen: 5.457 ng  
RT: 14.692 min Scan# 2145  
Delta R.T. -0.006 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

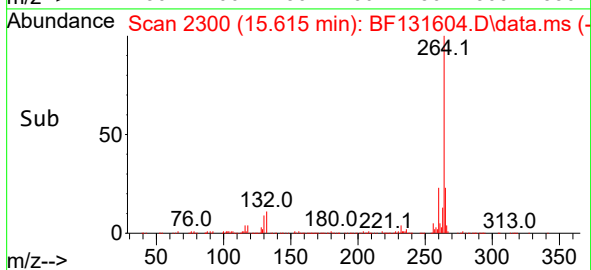
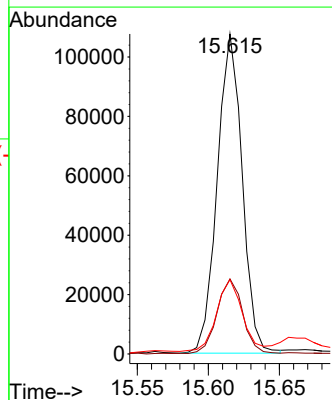
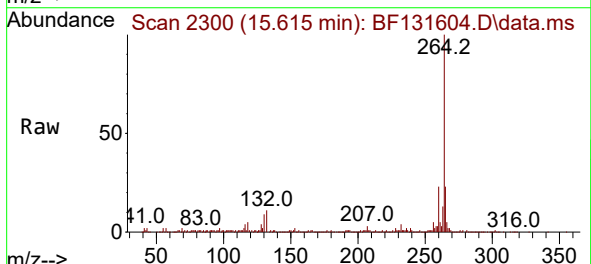
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BNA\_F  
ClientSampleId :  
72-11938

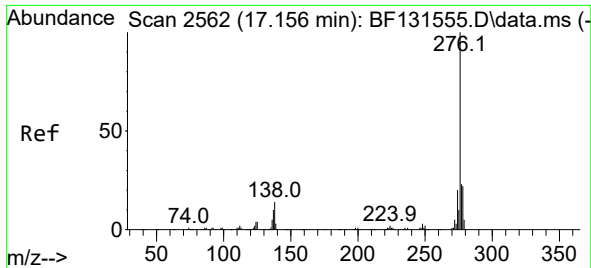
Tgt Ion:149 Resp: 2273  
Ion Ratio Lower Upper  
149 100  
167 0.0 1.2 1.8#  
43 85.0 8.6 13.0#



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.615 min Scan# 2300  
Delta R.T. -0.000 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:264 Resp: 131131  
Ion Ratio Lower Upper  
264 100  
260 23.4 20.6 30.8  
265 23.2 16.8 25.2

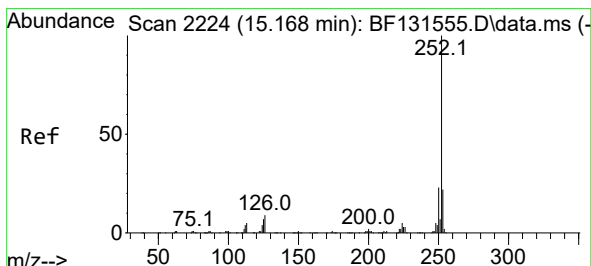
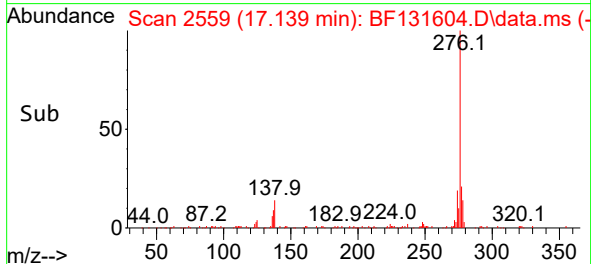
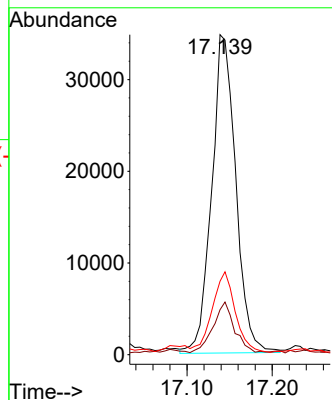
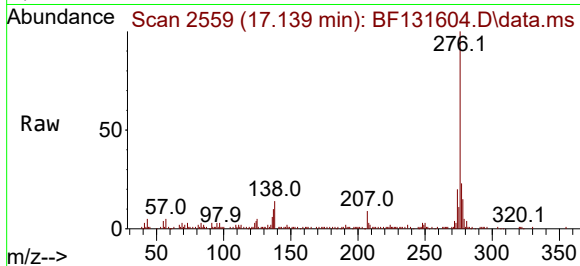




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.383 ng  
 RT: 17.139 min Scan# 2559  
 Delta R.T. -0.018 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

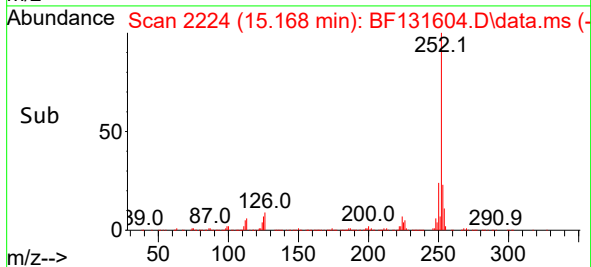
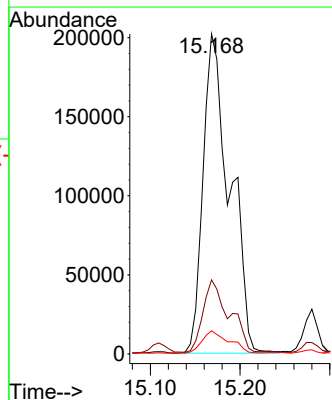
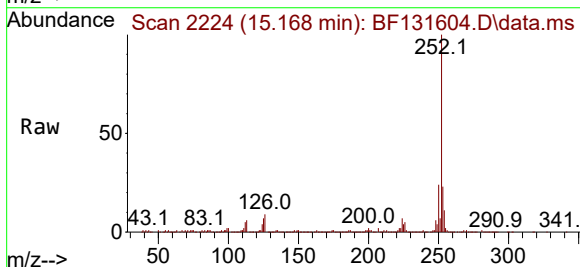
Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11938

Tgt Ion:276 Resp: 68304  
 Ion Ratio Lower Upper  
 276 100  
 138 14.1 12.7 19.1  
 277 24.3 20.0 30.0

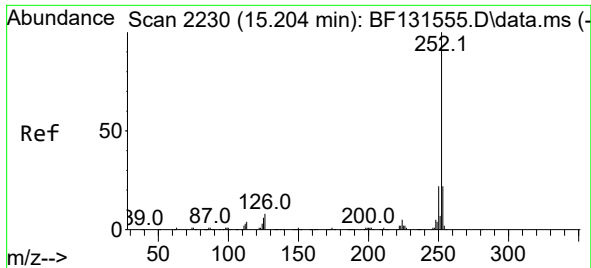


#88  
 Benzo(b)fluoranthene  
 Concen: 48.441 ng  
 RT: 15.168 min Scan# 2224  
 Delta R.T. -0.000 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

Tgt Ion:252 Resp: 418660  
 Ion Ratio Lower Upper  
 252 100  
 253 23.2 17.7 26.5  
 125 7.2 5.6 8.4



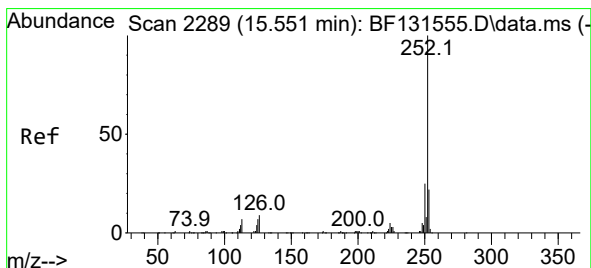
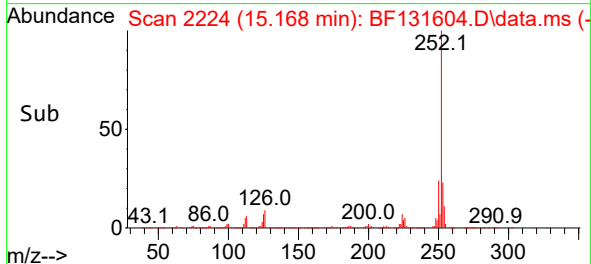
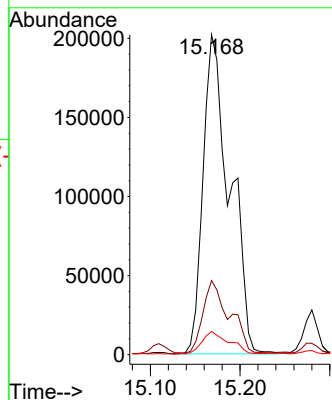
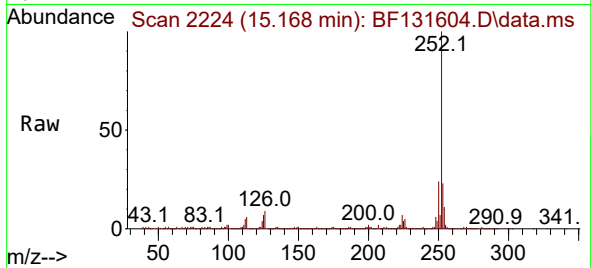




#89  
Benzo(k)fluoranthene  
Concen: 46.410 ng  
RT: 15.168 min Scan# 211  
Delta R.T. -0.035 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

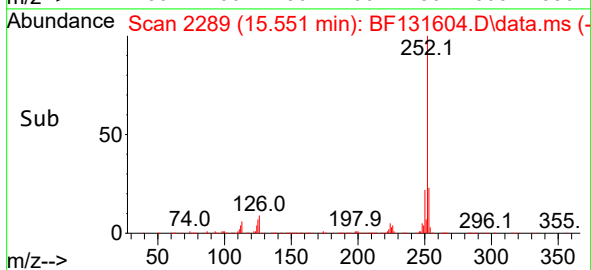
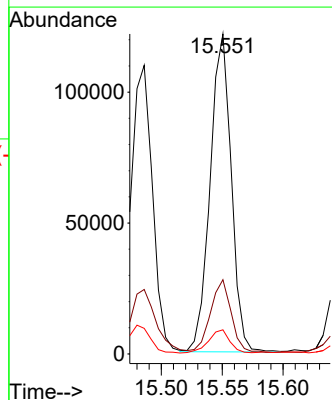
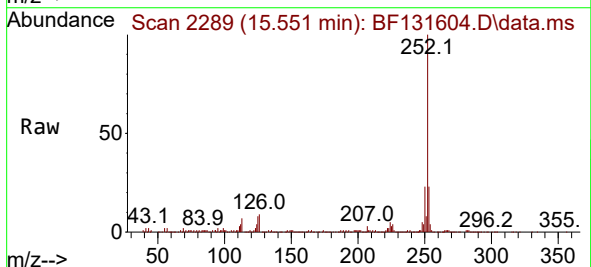
Instrument :  
BNA\_F  
ClientSampleId :  
72-11938

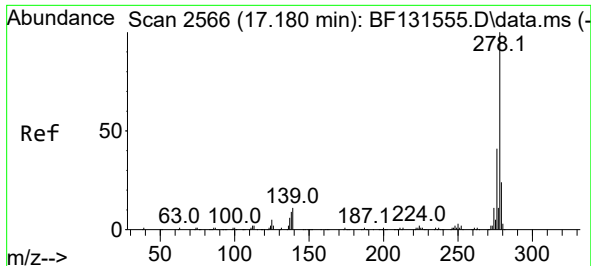
Tgt Ion:252 Resp: 418660  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.7 26.5  
125 7.2 4.9 7.3



#90  
Benzo(a)pyrene  
Concen: 19.868 ng  
RT: 15.551 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: BF131604.D  
Acq: 12 Dec 2022 21:18

Tgt Ion:252 Resp: 146543  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.5 26.3  
125 7.6 5.6 8.4

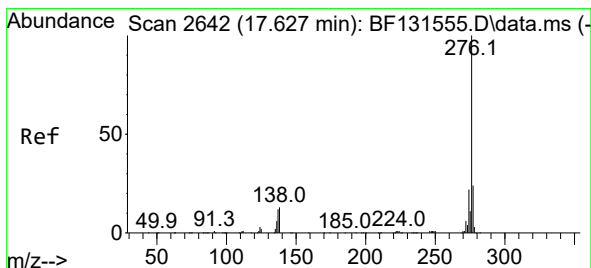
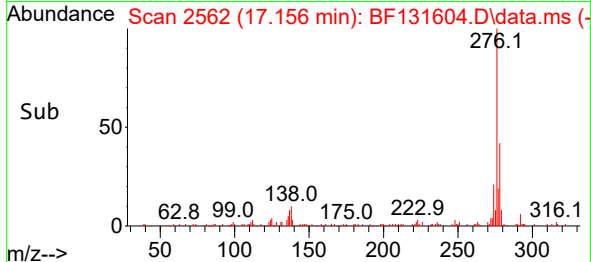
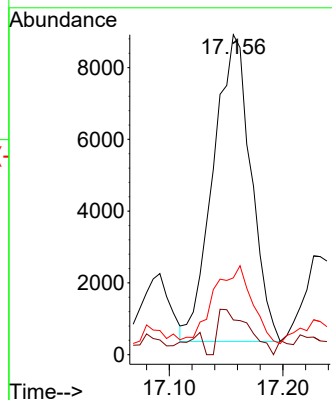
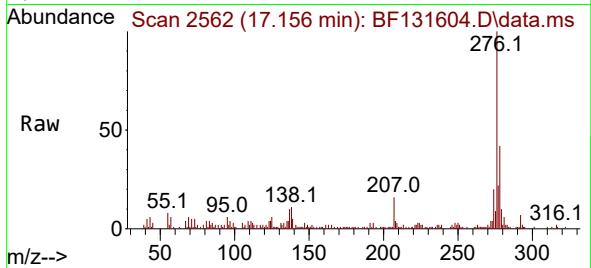




#91  
 Dibenzo(a,h)anthracene  
 Concen: 2.238 ng  
 RT: 17.156 min Scan# 21  
 Delta R.T. -0.018 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11938

Tgt Ion:278 Resp: 19711  
 Ion Ratio Lower Upper  
 278 100  
 139 10.9 8.9 13.3  
 279 24.0 19.0 28.6



#92  
 Benzo(g,h,i)perylene  
 Concen: 6.462 ng  
 RT: 17.609 min Scan# 2639  
 Delta R.T. -0.018 min  
 Lab File: BF131604.D  
 Acq: 12 Dec 2022 21:18

Tgt Ion:276 Resp: 57204  
 Ion Ratio Lower Upper  
 276 100  
 277 24.0 19.0 28.6  
 138 18.4 10.7 16.1#

