

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020323\  
 Data File : BF132333.D  
 Acq On : 03 Feb 2023 21:12  
 Operator : CG\JU  
 Sample : 01418-15  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-22-020223

Quant Time: Feb 04 01:41:53 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Feb 04 01:32:42 2023  
 Response via : Initial Calibration

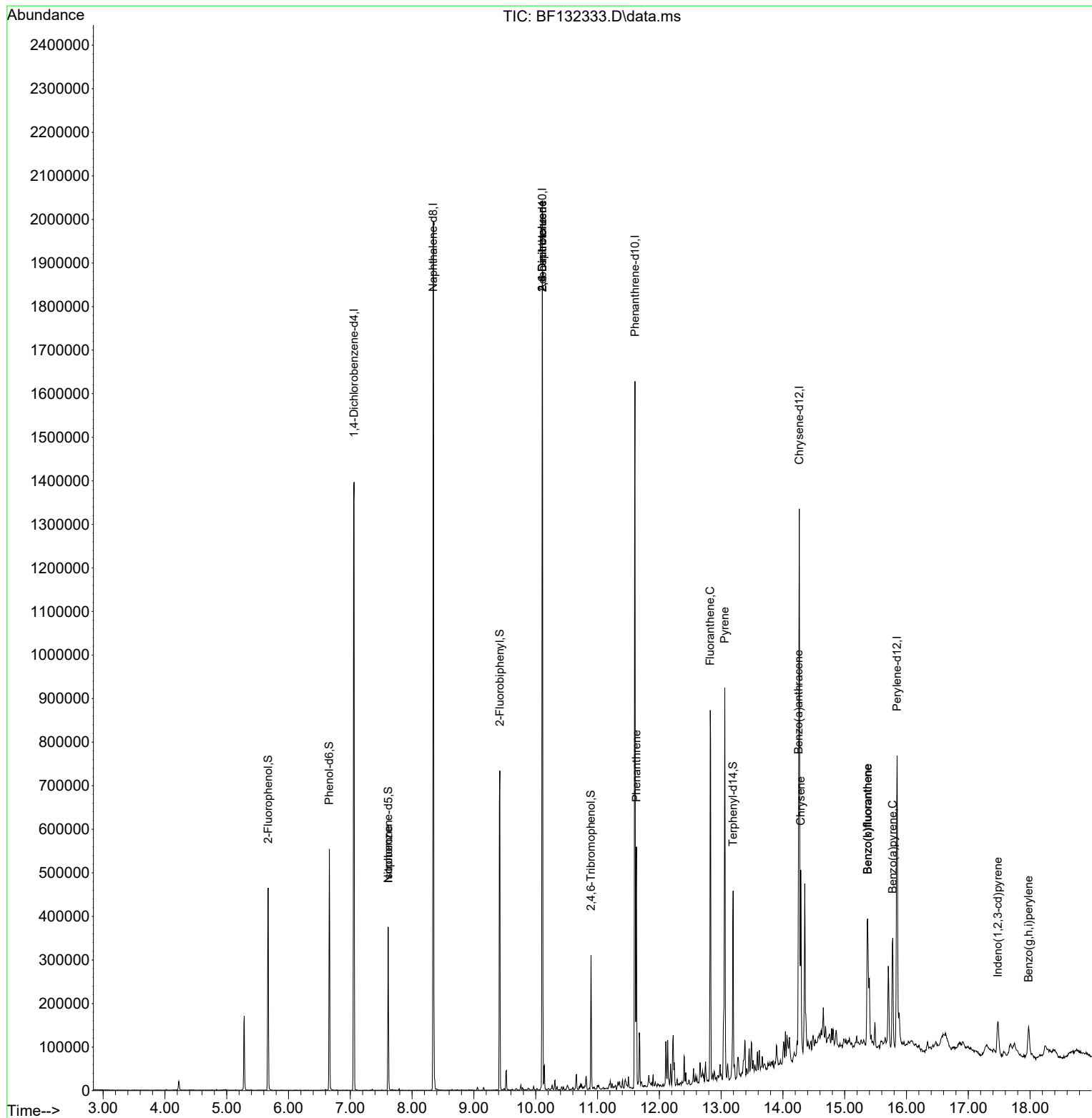
| Compound                    | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-----------|--------|----------|
| -----                       |        |      |          |           |        |          |
| Internal Standards          |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.060  | 152  | 228940   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8          | 8.342  | 136  | 848259   | 20.000    | ng     | 0.00     |
| 39) Acenaphthene-d10        | 10.107 | 164  | 397647   | 20.000    | ng     | 0.00     |
| 64) Phenanthrene-d10        | 11.607 | 188  | 593706   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12            | 14.265 | 240  | 344533   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12            | 15.848 | 264  | 309273   | 20.000    | ng     | 0.00     |
|                             |        |      |          |           |        |          |
| System Monitoring Compounds |        |      |          |           |        |          |
| 5) 2-Fluorophenol           | 5.672  | 112  | 149725   | 10.512    | ng     | 0.00     |
| 7) Phenol-d6                | 6.660  | 99   | 183336   | 10.441    | ng     | -0.02    |
| 23) Nitrobenzene-d5         | 7.613  | 82   | 105504   | 6.921     | ng     | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.895 | 330  | 31810    | 7.779     | ng     | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.419  | 172  | 221734   | 8.611     | ng     | 0.00     |
| 79) Terphenyl-d14           | 13.195 | 244  | 138232   | 7.761     | ng     | 0.00     |
|                             |        |      |          |           |        |          |
| Target Compounds            |        |      |          |           |        |          |
| 9) Benzaldehyde             | 6.654  | 77   | 293      | Below Cal | Qvalue | # 1      |
| 25) Isophorone              | 7.613  | 82   | 105503   | 3.647     | ng     | # 64     |
| 51) 2,6-Dinitrotoluene      | 10.107 | 165  | 52704    | 8.484     | ng     | # 24     |
| 57) 2,4-Dinitrotoluene      | 10.107 | 165  | 52695    | 6.530     | ng     | # 23     |
| 71) Phenanthrene            | 11.630 | 178  | 197560   | 6.368     | ng     | 98       |
| 75) Fluoranthene            | 12.824 | 202  | 341831   | 10.797    | ng     | 99       |
| 78) Pyrene                  | 13.060 | 202  | 338256   | 12.207    | ng     | 99       |
| 81) Benzo(a)anthracene      | 14.254 | 228  | 182341   | 7.567     | ng     | 99       |
| 83) Chrysene                | 14.289 | 228  | 159764   | 7.080     | ng     | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.477 | 276  | 56774    | 2.763     | ng     | 93       |
| 88) Benzo(b)fluoranthene    | 15.371 | 252  | 248767   | 12.654    | ng     | 99       |
| 89) Benzo(k)fluoranthene    | 15.371 | 252  | 248767   | 13.257    | ng     | 99       |
| 90) Benzo(a)pyrene          | 15.777 | 252  | 131383   | 7.177     | ng     | 98       |
| 92) Benzo(g,h,i)perylene    | 17.977 | 276  | 55651    | 3.260     | ng     | 99       |
| -----                       |        |      |          |           |        |          |

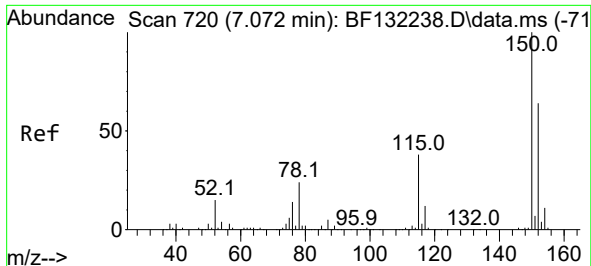
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF020323\  
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Instrument :  
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Quant Time: Feb 04 01:41:53 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF013123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Feb 04 01:32:42 2023  
Response via : Initial Calibration

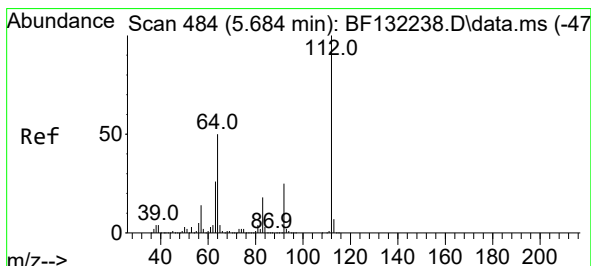
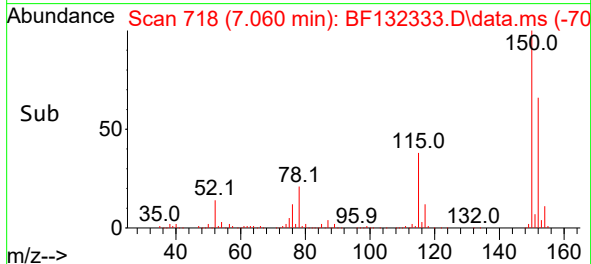
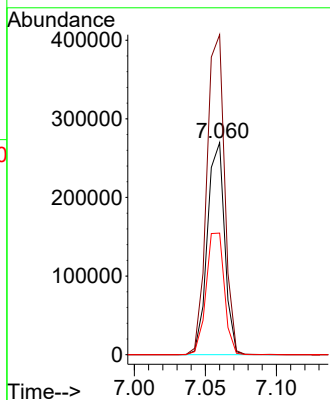
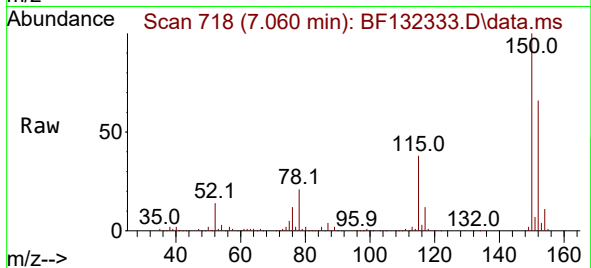




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.060 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

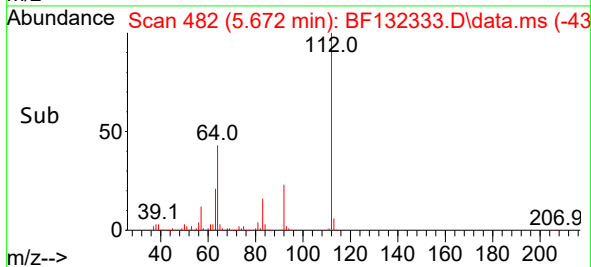
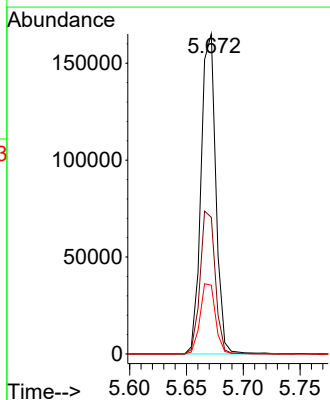
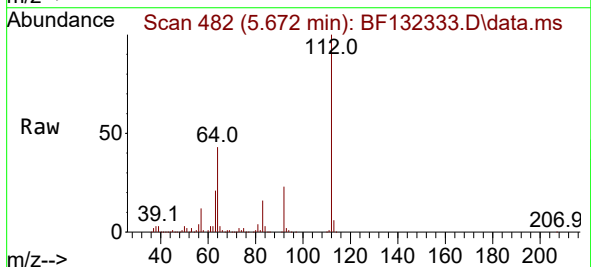
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

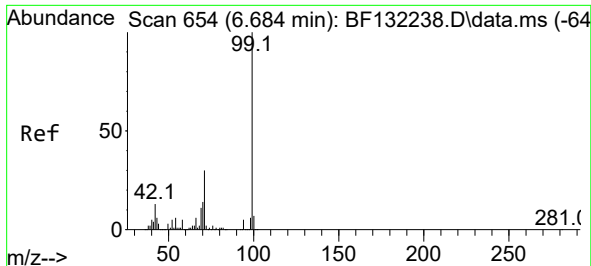
Tgt Ion:152 Resp: 228940  
Ion Ratio Lower Upper  
152 100  
150 150.9 124.2 186.2  
115 57.3 47.3 70.9



#5  
2-Fluorophenol  
Concen: 10.512 ng  
RT: 5.672 min Scan# 482  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:112 Resp: 149725  
Ion Ratio Lower Upper  
112 100  
64 42.7 40.0 60.0  
63 21.5 20.5 30.7





#7

Phenol-d6

Concen: 10.441 ng

RT: 6.660 min Scan# 61

Delta R.T. -0.018 min

Lab File: BF132333.D

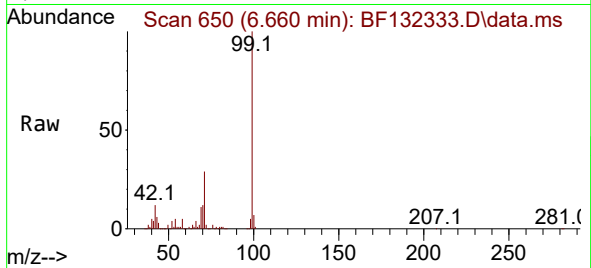
Acq: 03 Feb 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

JPP-22-020223



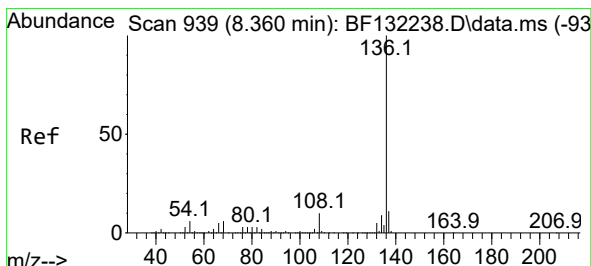
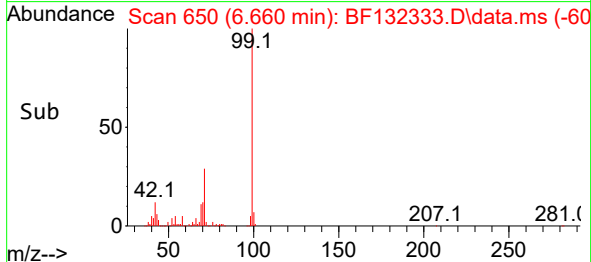
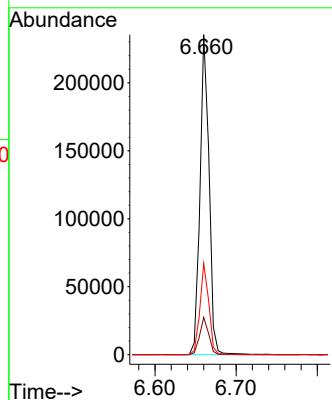
Tgt Ion: 99 Resp: 183336

Ion Ratio Lower Upper

99 100

42 11.7 10.1 15.1

71 28.5 24.2 36.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.342 min Scan# 936

Delta R.T. -0.006 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

Tgt Ion: 136 Resp: 848259

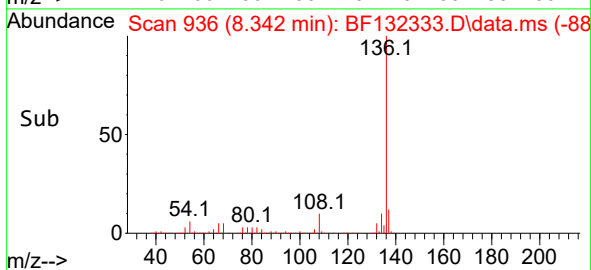
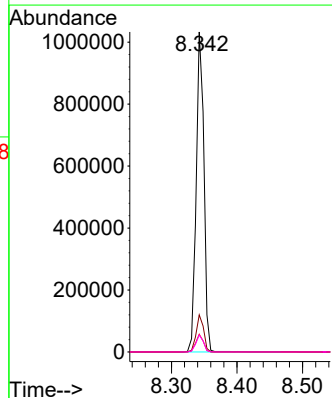
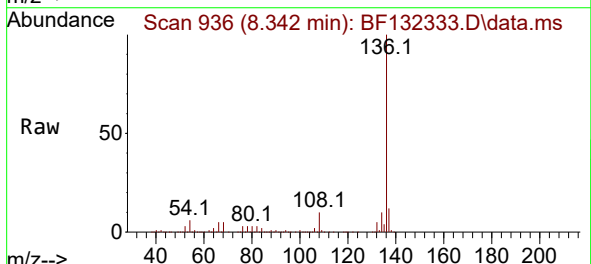
Ion Ratio Lower Upper

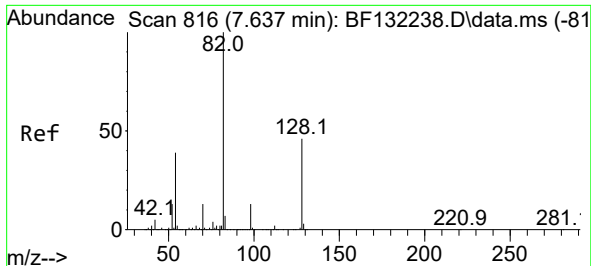
136 100

137 11.6 8.8 13.2

54 5.6 4.9 7.3

68 5.3 4.7 7.1





#23

Nitrobenzene-d5

Concen: 6.921 ng

RT: 7.613 min Scan# 812

Delta R.T. -0.018 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

Instrument :

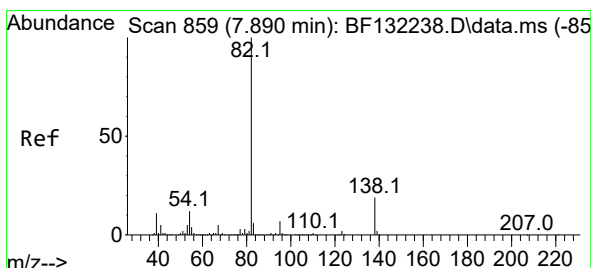
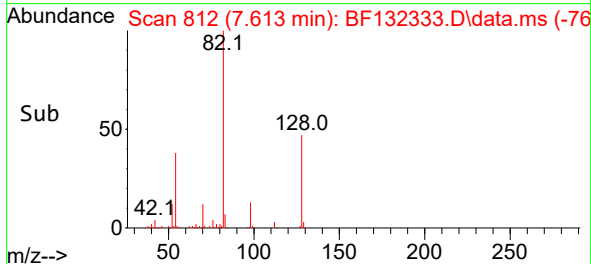
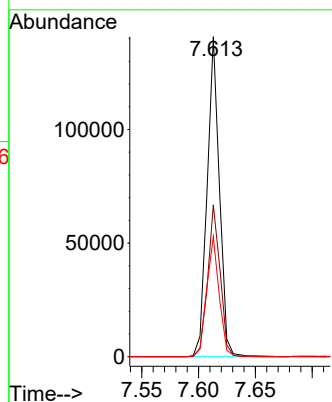
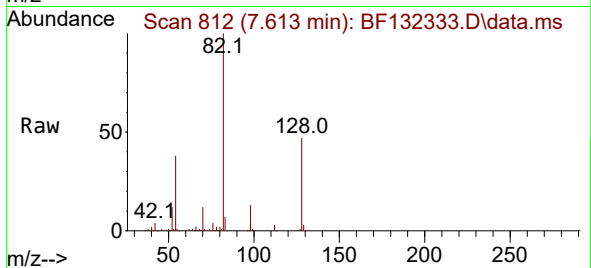
BNA\_F

ClientSampleId :

JPP-22-020223

Tgt Ion: 82 Resp: 105504

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 47.4  | 37.0  | 55.4  |
| 54  | 37.5  | 31.5  | 47.3  |



#25

Isophorone

Concen: 3.647 ng

RT: 7.613 min Scan# 812

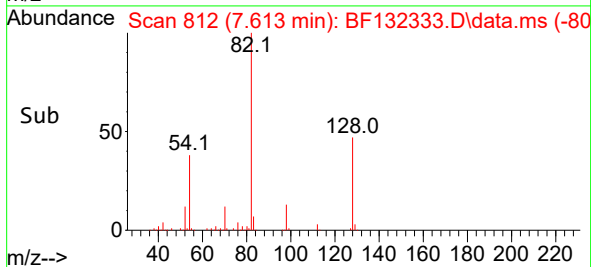
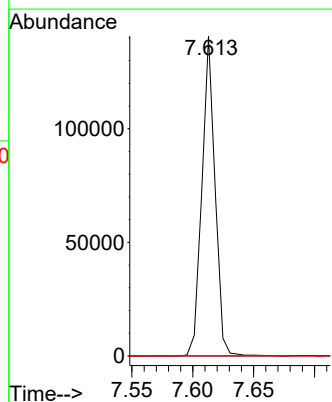
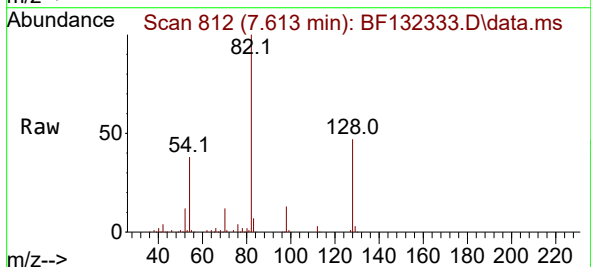
Delta R.T. -0.271 min

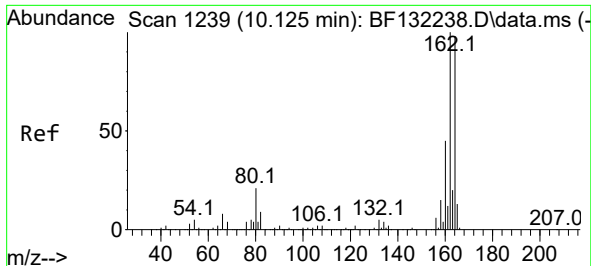
Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

Tgt Ion: 82 Resp: 105503

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.0   | 5.6   | 8.4#  |
| 138 | 0.0   | 15.0  | 22.6# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.107 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

JPP-22-020223

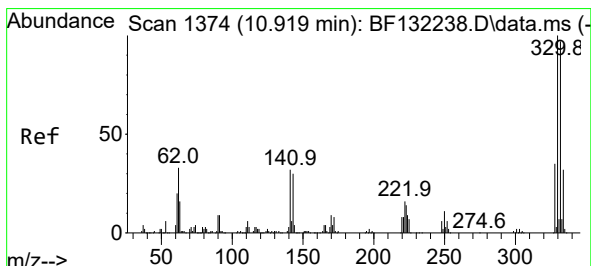
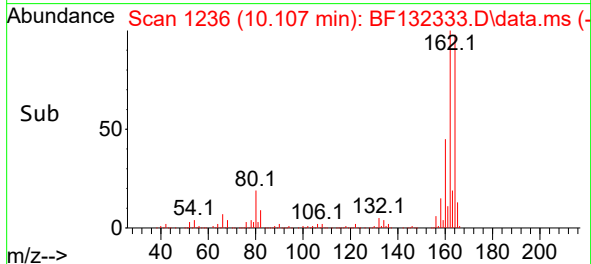
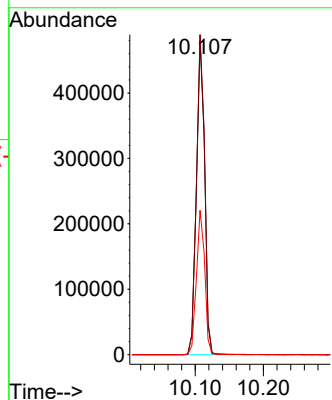
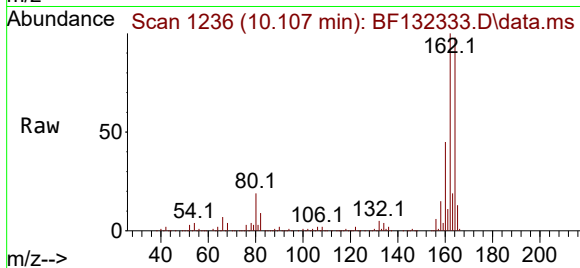
Tgt Ion:164 Resp: 397647

Ion Ratio Lower Upper

164 100

162 101.8 82.0 123.0

160 45.9 37.1 55.7



#42

2,4,6-Tribromophenol

Concen: 7.779 ng

RT: 10.895 min Scan# 1370

Delta R.T. -0.012 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

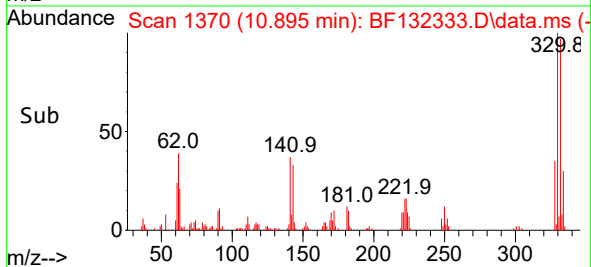
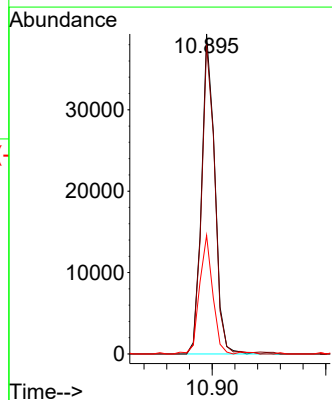
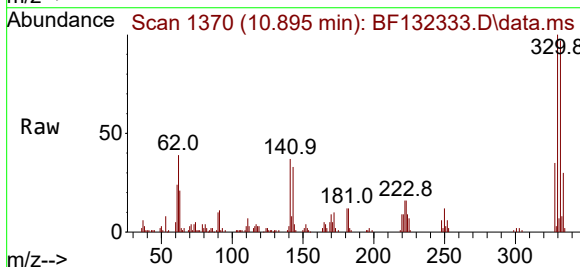
Tgt Ion:330 Resp: 31810

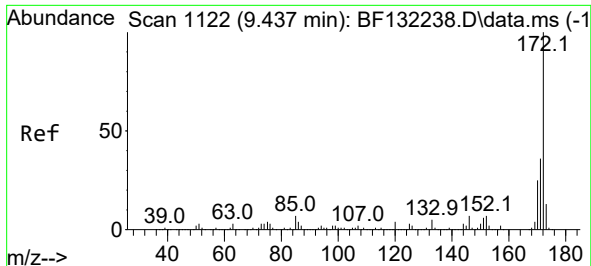
Ion Ratio Lower Upper

330 100

332 96.8 77.9 116.9

141 36.8 31.0 46.4





#45

2-Fluorobiphenyl

Concen: 8.611 ng

RT: 9.419 min Scan# 1119

Delta R.T. -0.006 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

Instrument :

BNA\_F

ClientSampleId :

JPP-22-020223

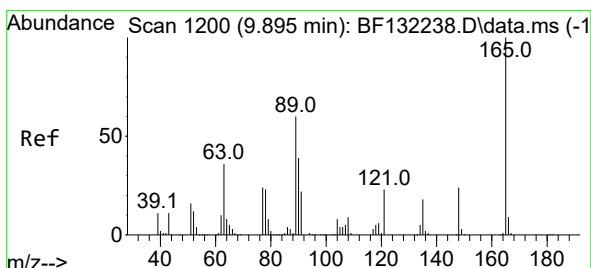
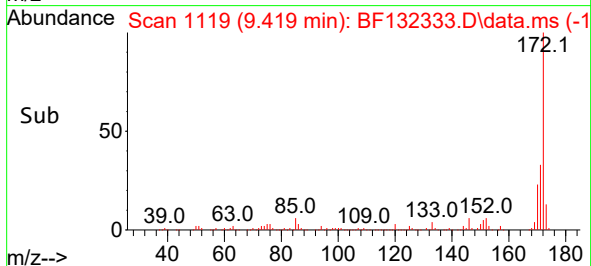
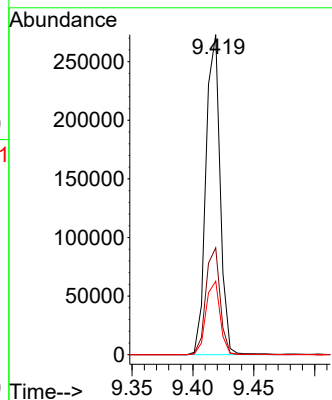
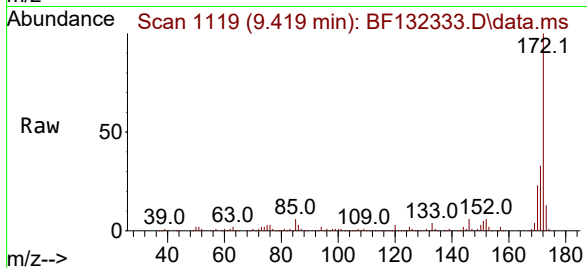
Tgt Ion:172 Resp: 221734

Ion Ratio Lower Upper

172 100

171 33.4 28.6 43.0

170 23.0 19.7 29.5



#51

2,6-Dinitrotoluene

Concen: 8.484 ng

RT: 10.107 min Scan# 1236

Delta R.T. 0.218 min

Lab File: BF132333.D

Acq: 03 Feb 2023 21:12

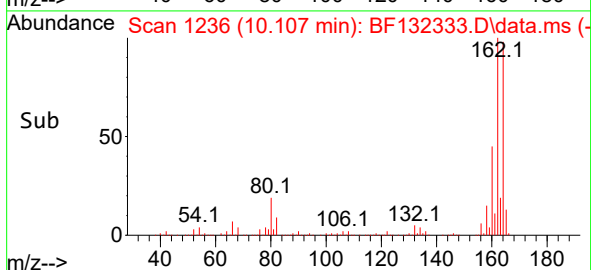
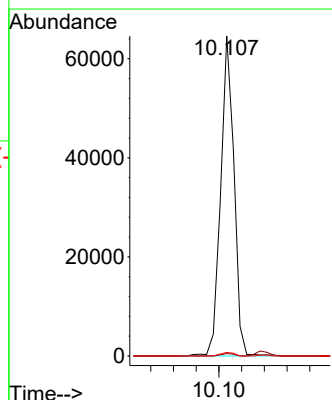
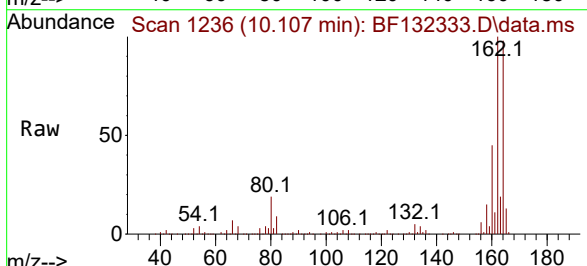
Tgt Ion:165 Resp: 52704

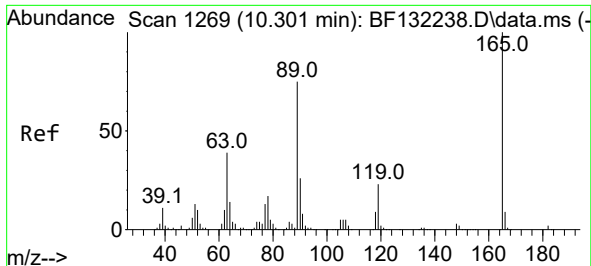
Ion Ratio Lower Upper

165 100

63 0.8 41.5 62.3#

89 1.1 48.1 72.1#

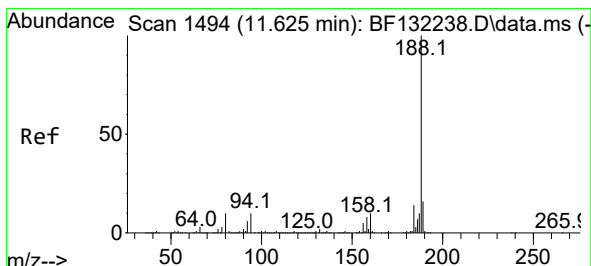
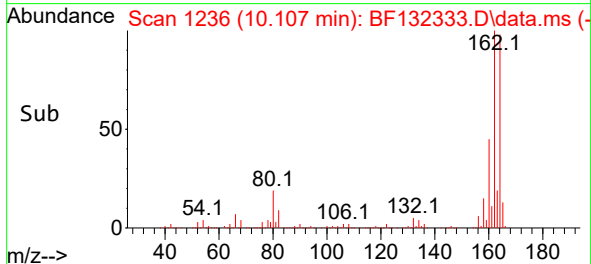
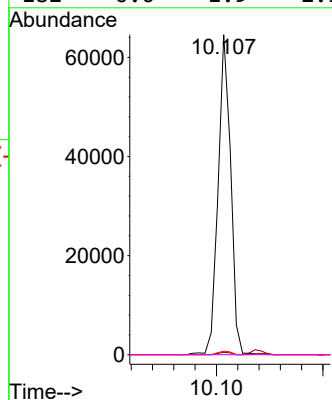
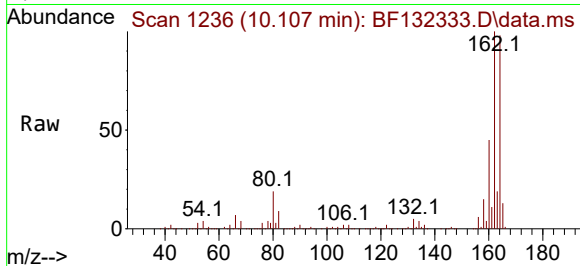




#57  
2,4-Dinitrotoluene  
Concen: 6.530 ng  
RT: 10.107 min Scan# 1490  
Delta R.T. -0.188 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

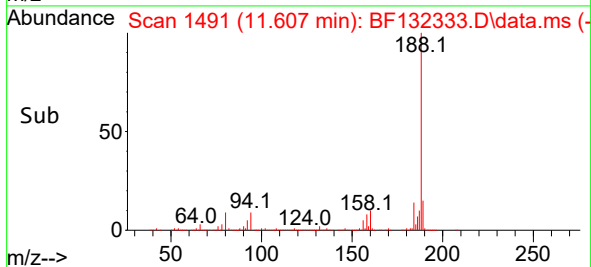
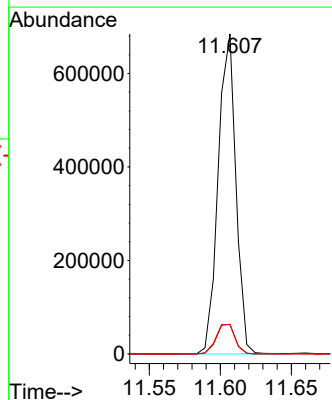
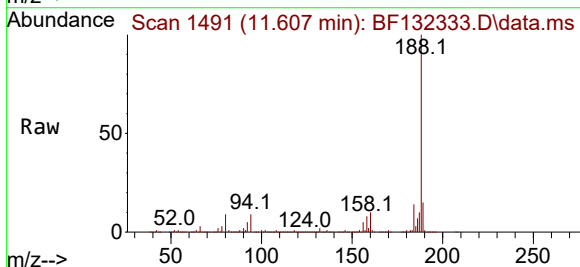
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

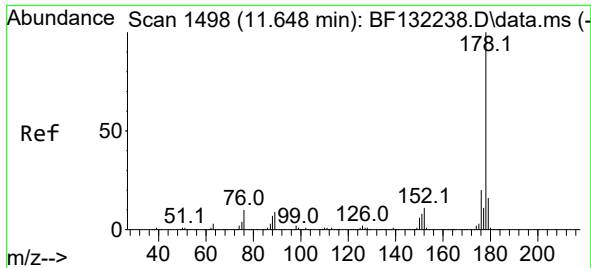
Tgt Ion:165 Resp: 52695  
Ion Ratio Lower Upper  
165 100  
63 0.8 30.9 46.3#  
89 1.1 60.1 90.1#  
182 0.0 1.9 2.9#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.607 min Scan# 1491  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:188 Resp: 593706  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.2 12.2  
80 9.2 8.3 12.5

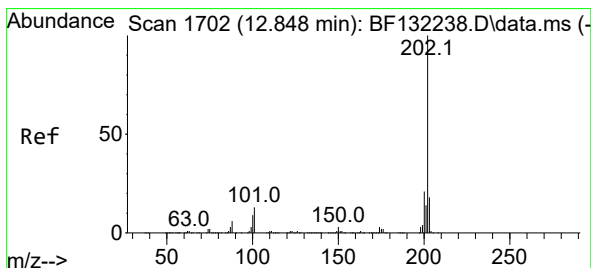
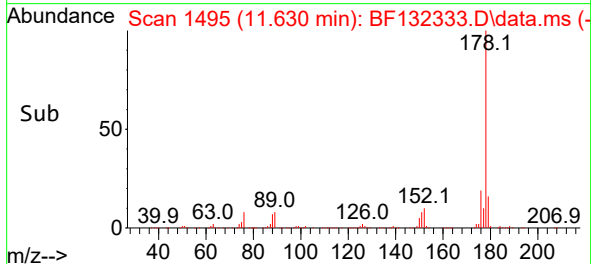
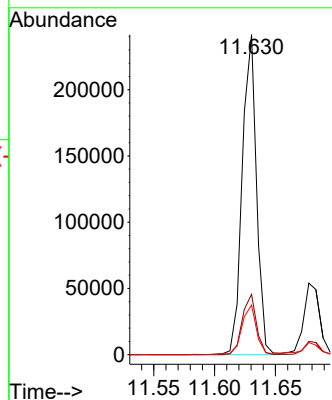
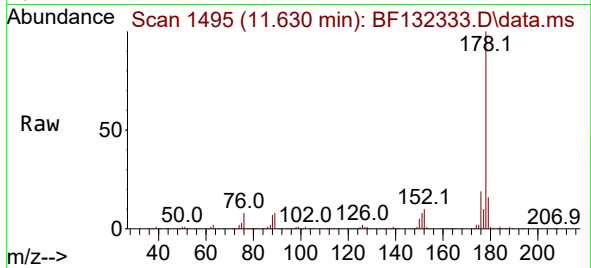




#71  
Phenanthrene  
Concen: 6.368 ng  
RT: 11.630 min Scan# 1498  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

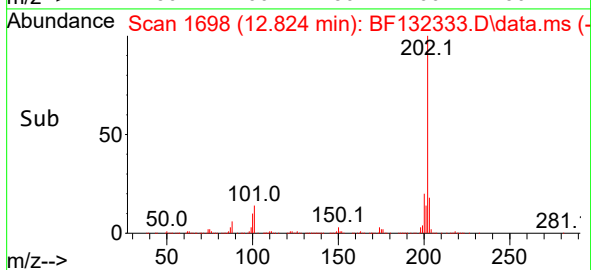
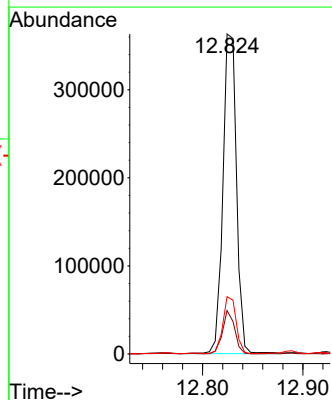
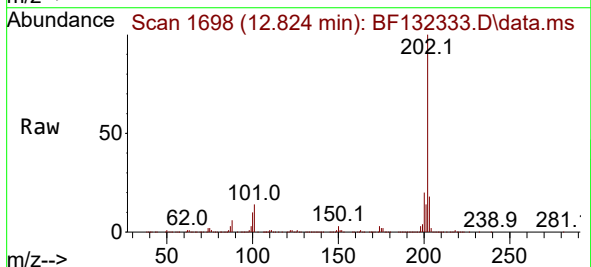
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

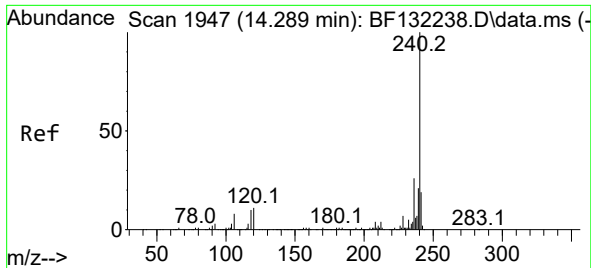
Tgt Ion:178 Resp: 197560  
Ion Ratio Lower Upper  
178 100  
176 18.9 16.2 24.4  
179 15.5 12.8 19.2



#75  
Fluoranthene  
Concen: 10.797 ng  
RT: 12.824 min Scan# 1698  
Delta R.T. -0.012 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:202 Resp: 341831  
Ion Ratio Lower Upper  
202 100  
101 13.6 0.0 32.7  
203 17.9 0.0 37.9

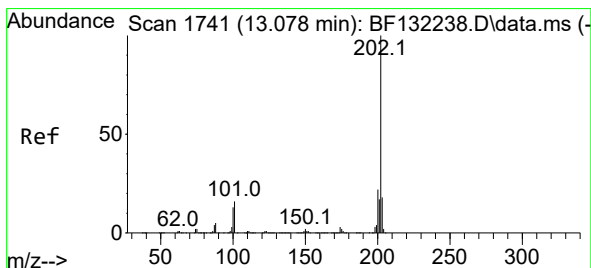
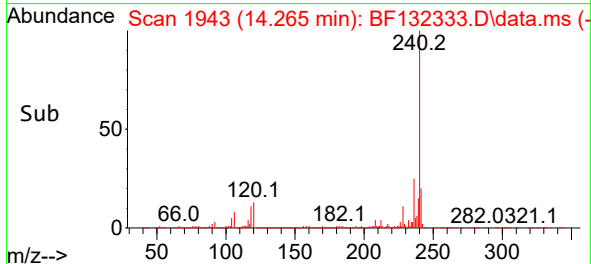
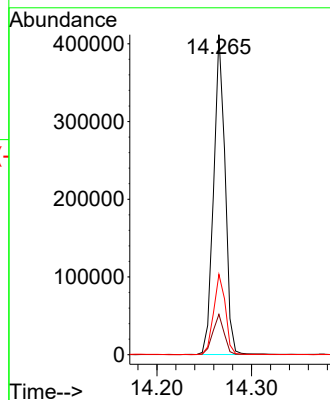
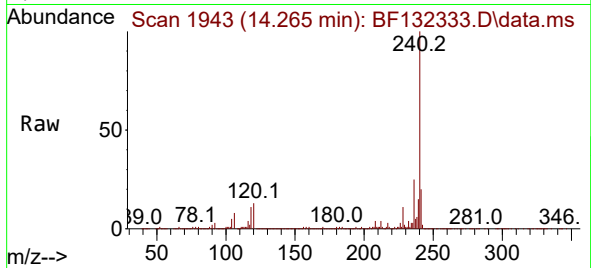




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.265 min Scan# 1947  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

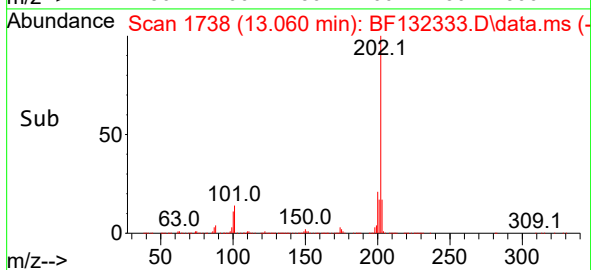
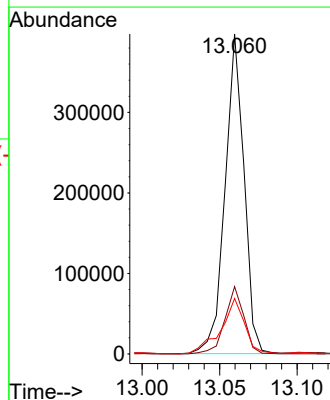
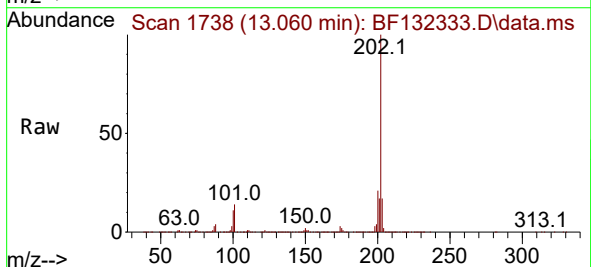
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

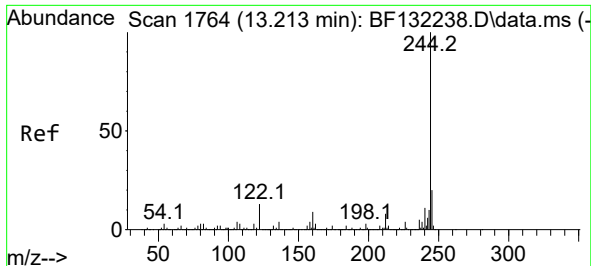
Tgt Ion:240 Resp: 344533  
Ion Ratio Lower Upper  
240 100  
120 12.6 8.8 13.2  
236 25.1 21.0 31.6



#78  
Pyrene  
Concen: 12.207 ng  
RT: 13.060 min Scan# 1738  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:202 Resp: 338256  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.3 25.9  
203 17.3 14.4 21.6

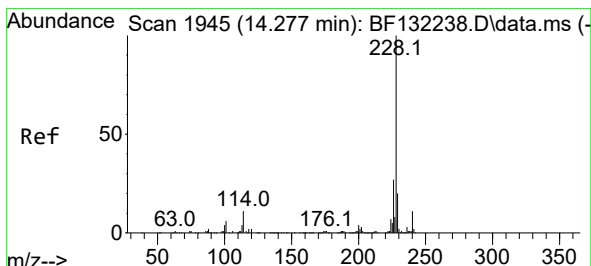
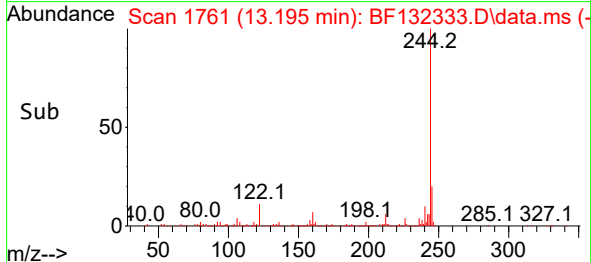
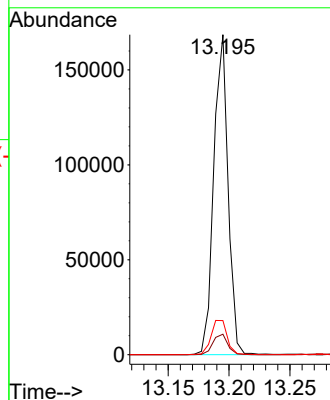
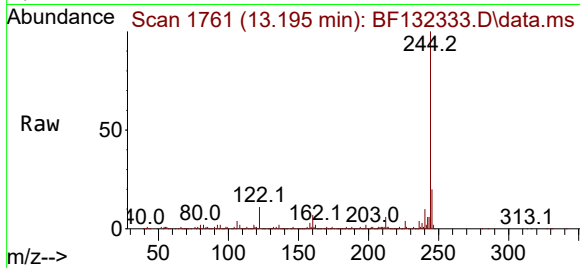




#79  
 Terphenyl-d14  
 Concen: 7.761 ng  
 RT: 13.195 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF132333.D  
 Acq: 03 Feb 2023 21:12

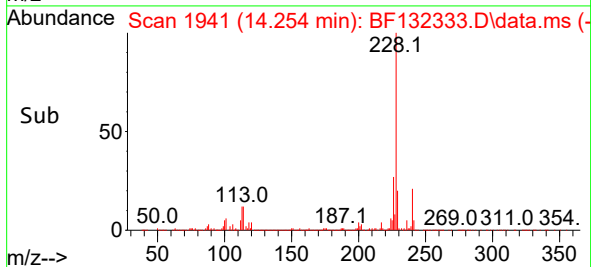
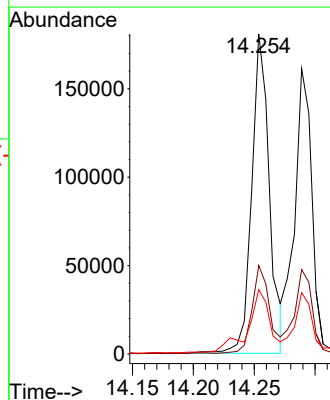
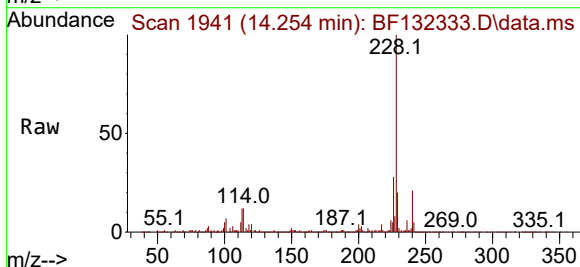
Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-22-020223

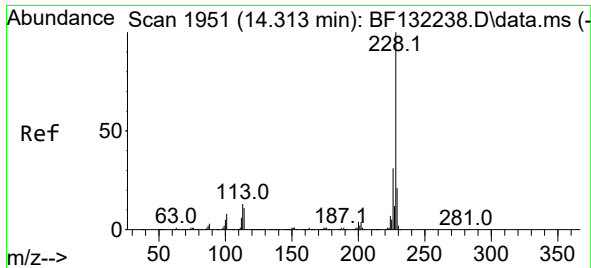
Tgt Ion:244 Resp: 138232  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 6.4 9.6  
 122 10.6 10.5 15.7



#81  
 Benzo(a)anthracene  
 Concen: 7.567 ng  
 RT: 14.254 min Scan# 1941  
 Delta R.T. -0.006 min  
 Lab File: BF132333.D  
 Acq: 03 Feb 2023 21:12

Tgt Ion:228 Resp: 182341  
 Ion Ratio Lower Upper  
 228 100  
 226 27.7 22.0 33.0  
 229 20.1 15.8 23.6

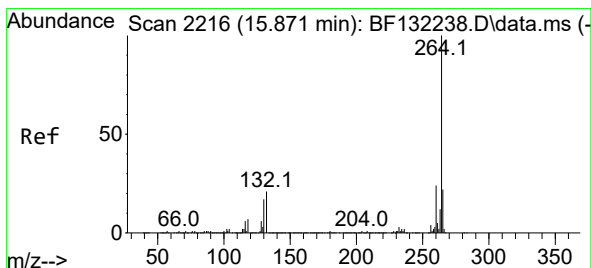
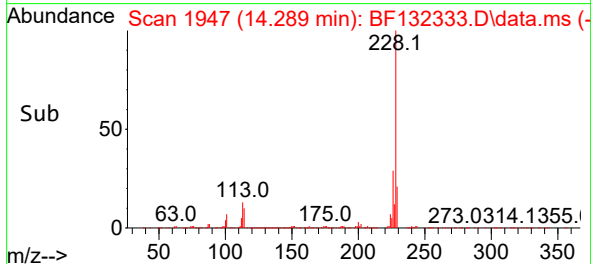
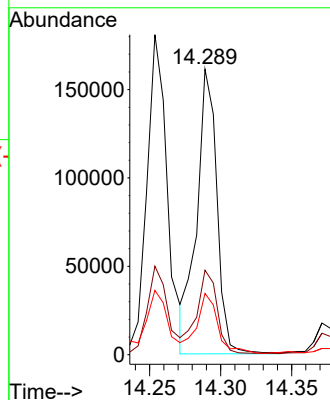
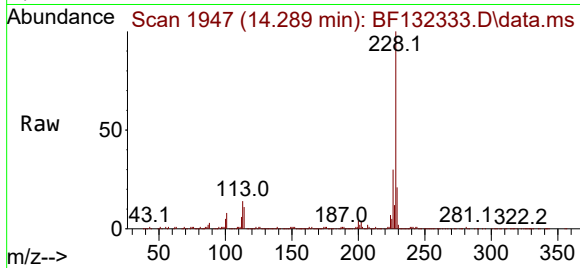




#83  
Chrysene  
Concen: 7.080 ng  
RT: 14.289 min Scan# 1951  
Delta R.T. -0.012 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

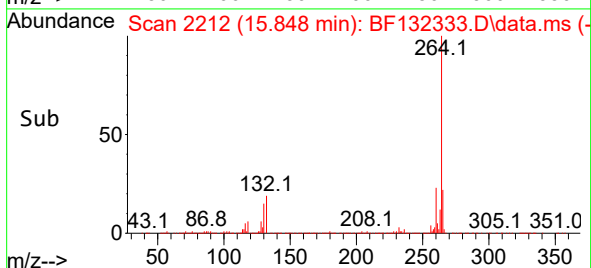
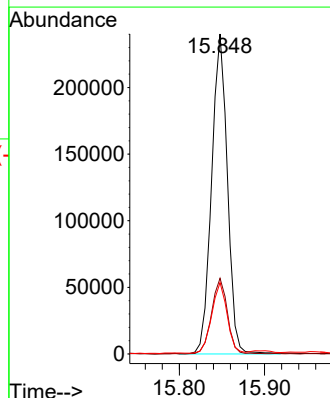
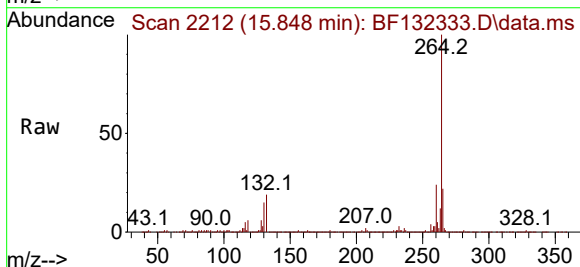
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

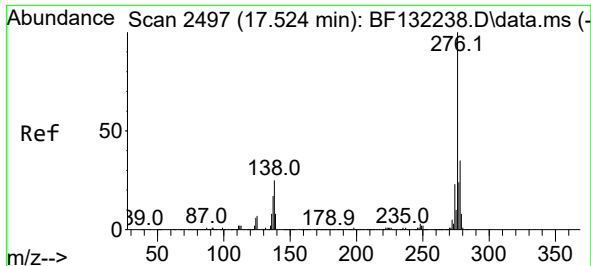
Tgt Ion:228 Resp: 159764  
Ion Ratio Lower Upper  
228 100  
226 29.6 24.9 37.3  
229 21.4 16.4 24.6



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.848 min Scan# 2212  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:264 Resp: 309273  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.0 28.4  
265 22.3 17.4 26.2

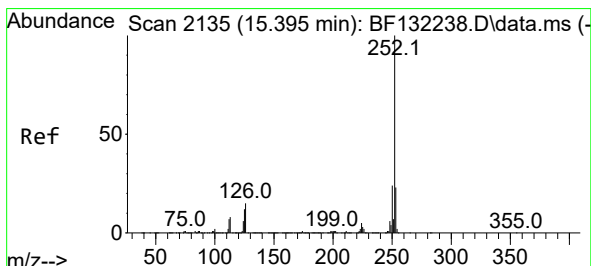
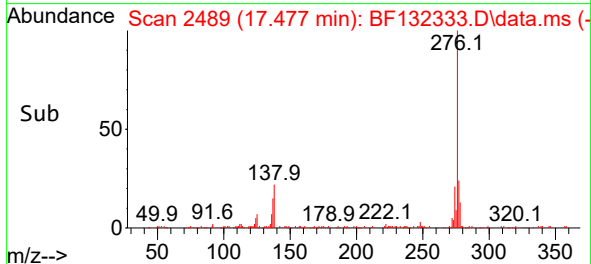
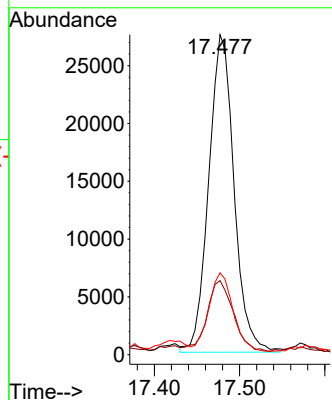
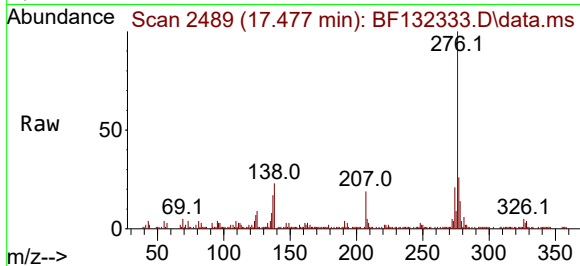




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.763 ng  
RT: 17.477 min Scan# 2497  
Delta R.T. -0.024 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

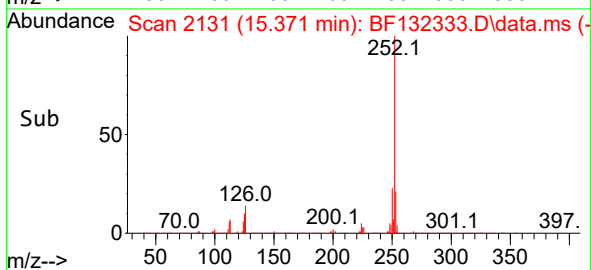
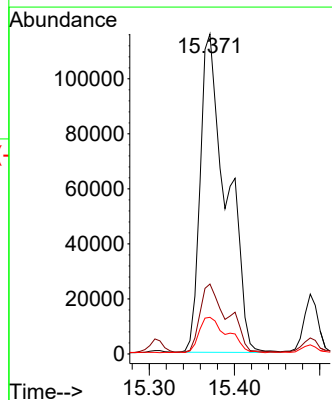
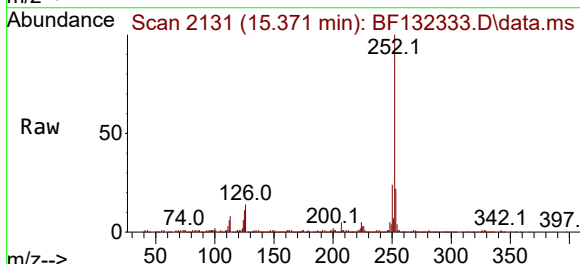
Instrument :  
BNA\_F  
ClientSampleId :  
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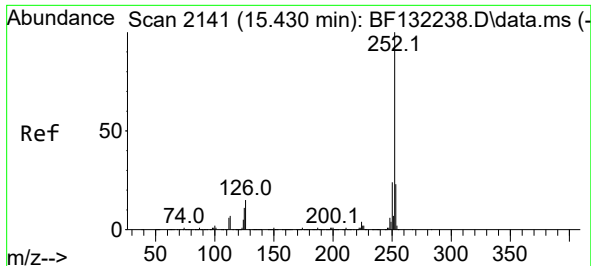
Tgt Ion:276 Resp: 56774  
Ion Ratio Lower Upper  
276 100  
138 23.5 23.3 34.9  
277 23.6 20.0 30.0



#88  
Benzo(b)fluoranthene  
Concen: 12.654 ng  
RT: 15.371 min Scan# 2131  
Delta R.T. -0.006 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

Tgt Ion:252 Resp: 248767  
Ion Ratio Lower Upper  
252 100  
253 21.8 18.1 27.1  
125 11.5 9.6 14.4

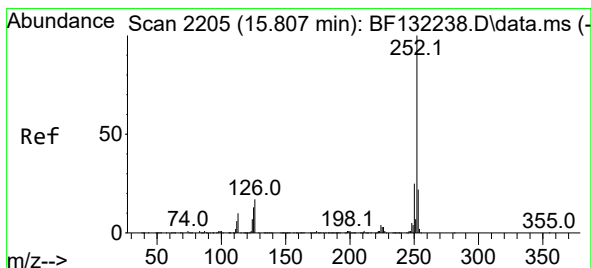
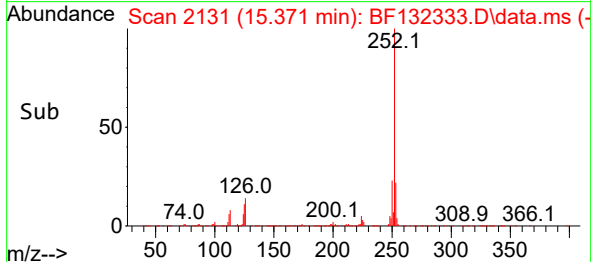
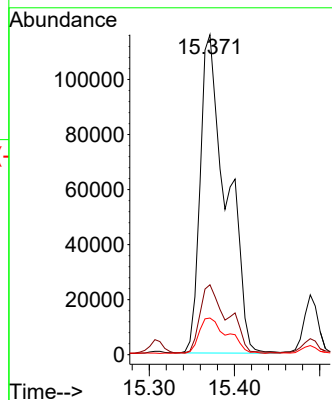
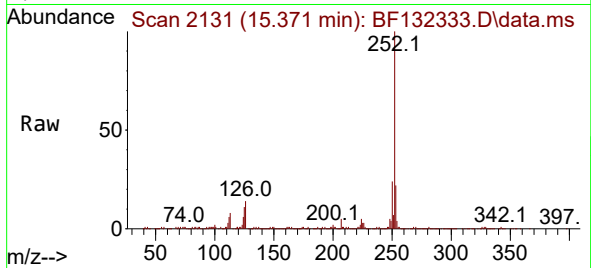




#89  
Benzo(k)fluoranthene  
Concen: 13.257 ng  
RT: 15.371 min Scan# 2141  
Delta R.T. -0.041 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

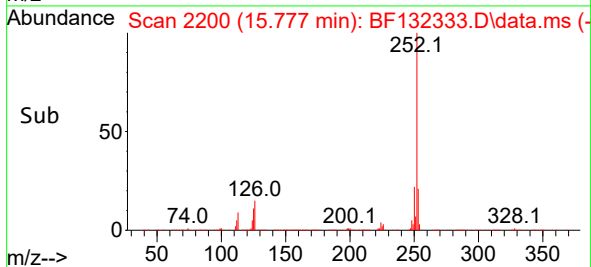
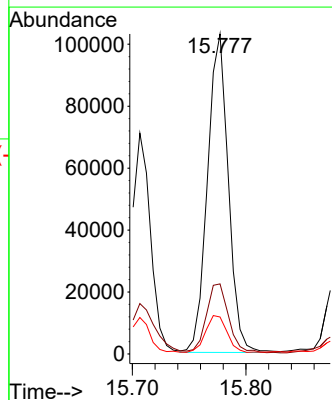
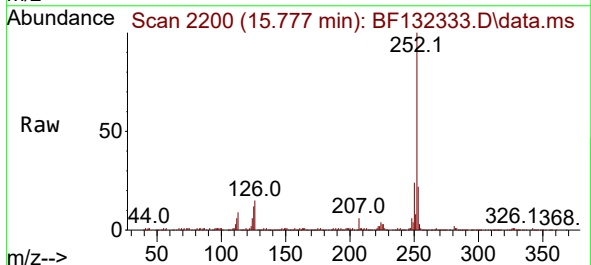
Instrument :  
BNA\_F  
ClientSampleId :  
JPP-22-020223

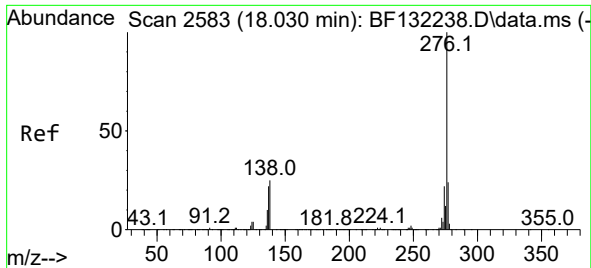
Tgt Ion:252 Resp: 248767  
Ion Ratio Lower Upper  
252 100  
253 21.8 18.2 27.2  
125 11.5 9.0 13.6



#90  
Benzo(a)pyrene  
Concen: 7.177 ng  
RT: 15.777 min Scan# 2200  
Delta R.T. -0.012 min  
Lab File: BF132333.D  
Acq: 03 Feb 2023 21:12

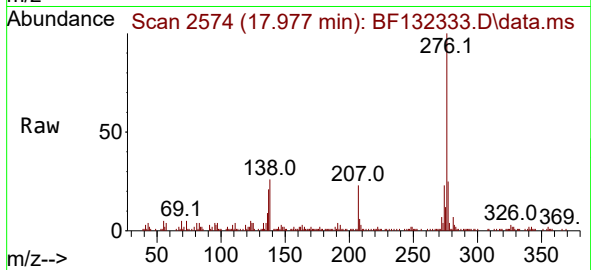
Tgt Ion:252 Resp: 131383  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.8 26.8  
125 11.5 10.2 15.4





#92  
 Benzo(g,h,i)perylene  
 Concen: 3.260 ng  
 RT: 17.977 min Scan# 21  
 Delta R.T. -0.029 min  
 Lab File: BF132333.D  
 Acq: 03 Feb 2023 21:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JPP-22-020223



Tgt Ion: 276 Resp: 55651  
 Ion Ratio Lower Upper  
 276 100  
 277 24.9 19.4 29.2  
 138 26.1 20.3 30.5

