

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081722\  
 Data File : BF129837.D  
 Acq On : 17 Aug 2022 10:51  
 Operator : CG\JU  
 Sample : N4199-01RE  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HD-02-081222

Quant Time: Aug 17 13:33:00 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF081422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 15 02:28:31 2022  
 Response via : Initial Calibration

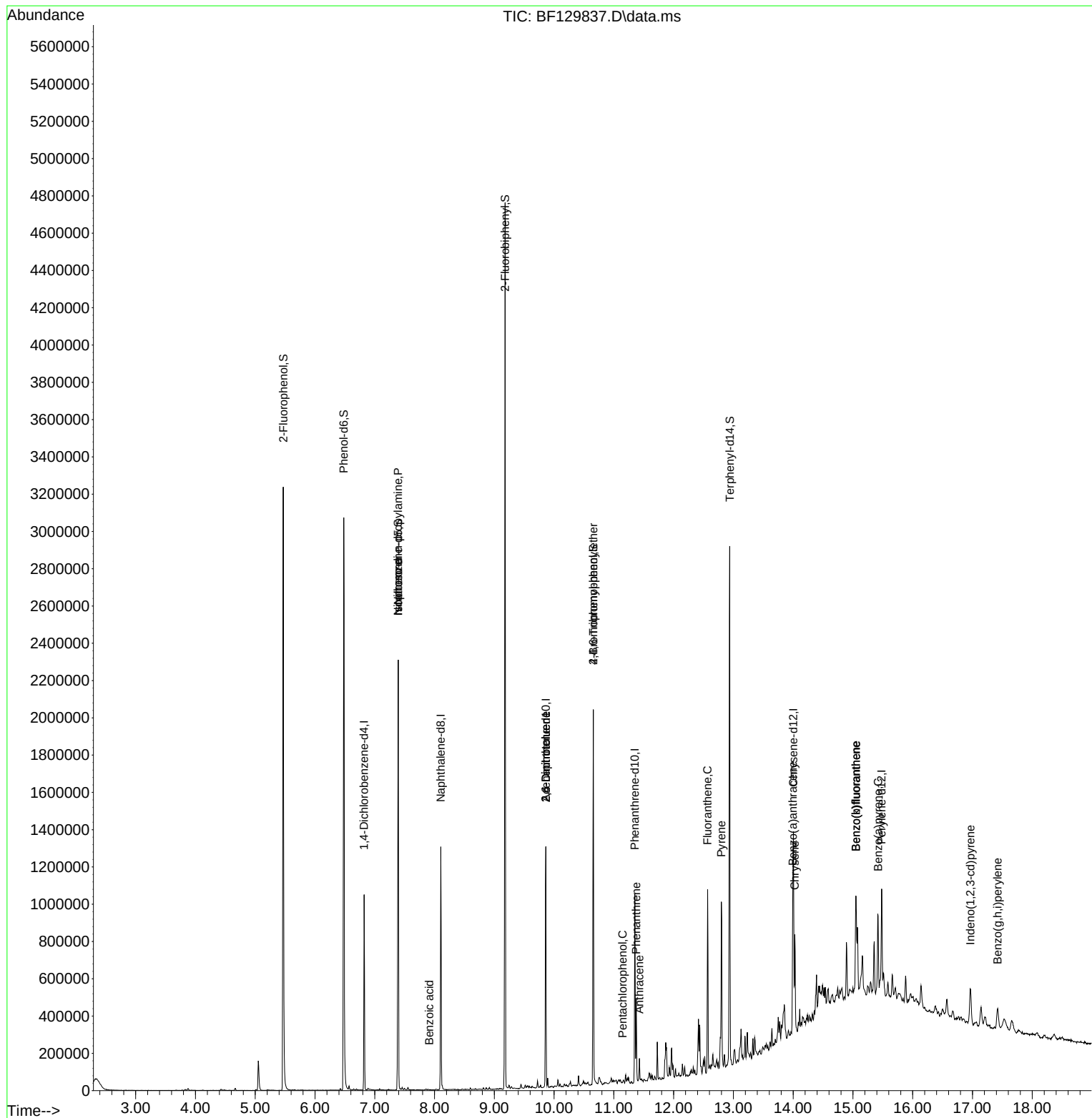
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.822  | 152  | 137407   | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.104  | 136  | 538575   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.863  | 164  | 254457   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.351 | 188  | 333586   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 14.004 | 240  | 263556   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 15.480 | 264  | 242496   | 20.000    | ng    | 0.01     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.469  | 112  | 869586   | 104.782   | ng    | 0.00     |
| 7) Phenol-d6                  | 6.481  | 99   | 1084032  | 104.307   | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.392  | 82   | 706897   | 70.262    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.657 | 330  | 210862   | 82.566    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.180  | 172  | 1285964  | 76.757    | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.939 | 244  | 913274   | 57.659    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 6.386  | 77   | 148      | Below Cal | #     | 31       |
| 19) n-Nitroso-di-n-propyla... | 7.392  | 70   | 93508    | 14.235    | ng    | # 77     |
| 25) Isophorone                | 7.392  | 82   | 706892   | 40.823    | ng    | # 65     |
| 32) Benzoic acid              | 7.910  | 122  | 115      | 2.196     | ng    | # 23     |
| 51) 2,6-Dinitrotoluene        | 9.863  | 165  | 33740    | 8.527     | ng    | # 23     |
| 57) 2,4-Dinitrotoluene        | 9.863  | 165  | 33740    | 6.569     | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether | 10.657 | 248  | 12848    | 3.288     | ng    | # 1      |
| 70) Pentachlorophenol         | 11.145 | 266  | 55       | 5.222     | ng    | # 20     |
| 71) Phenanthrene              | 11.374 | 178  | 147976   | 7.943     | ng    | 98       |
| 72) Anthracene                | 11.427 | 178  | 43675    | 2.357     | ng    | 98       |
| 75) Fluoranthene              | 12.568 | 202  | 350667   | 18.394    | ng    | 99       |
| 77) Benzidine                 | 12.692 | 184  | 831      | Below Cal | #     | 1        |
| 78) Pyrene                    | 12.798 | 202  | 362075   | 15.809    | ng    | 99       |
| 81) Benzo(a)anthracene        | 13.992 | 228  | 234277   | 12.922    | ng    | 96       |
| 83) Chrysene                  | 14.027 | 228  | 206028   | 12.140    | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.968 | 276  | 89783    | 5.393     | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.051 | 252  | 387997   | 23.366    | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.051 | 252  | 387997   | 24.365    | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.421 | 252  | 206748   | 15.811    | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.421 | 276  | 83000    | 6.057     | ng    | 95       |
| -----                         |        |      |          |           |       |          |

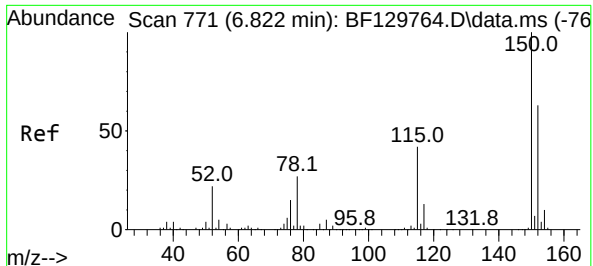
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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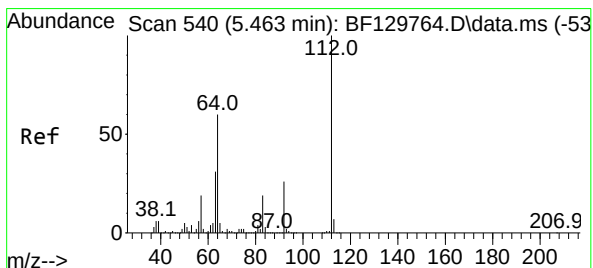
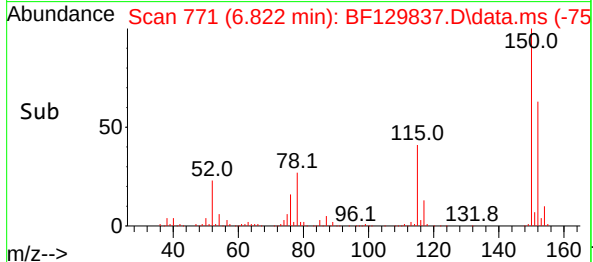
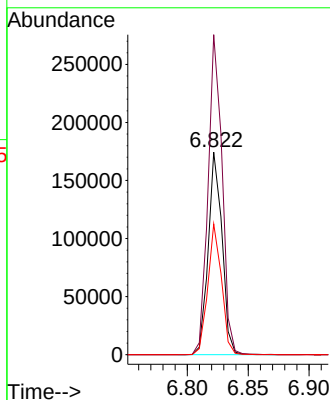
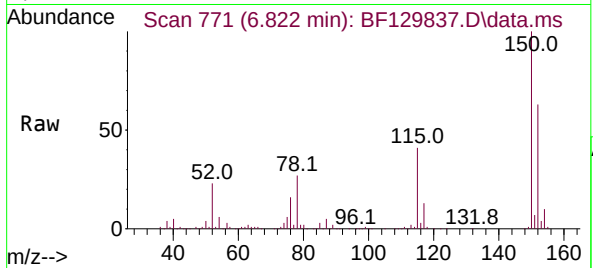




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.822 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

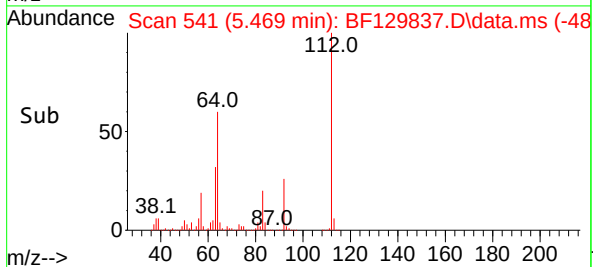
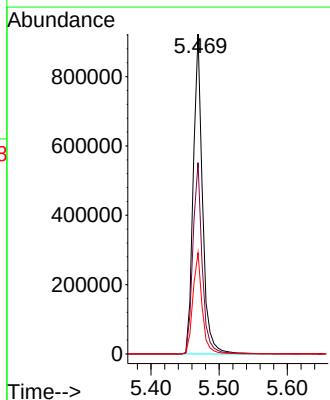
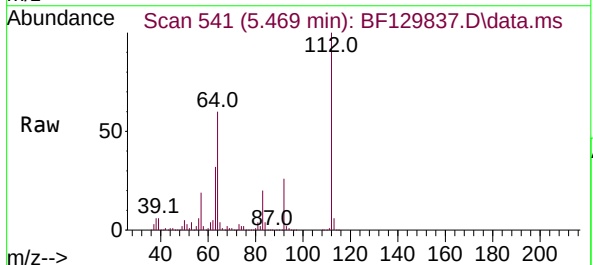
Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

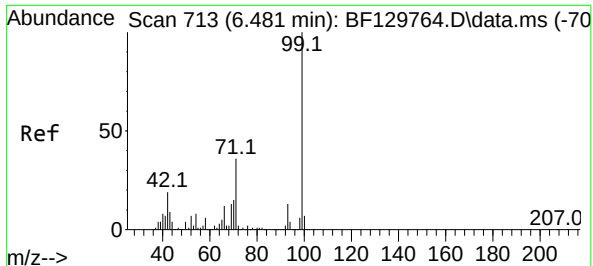
Tgt Ion:152 Resp: 137407  
Ion Ratio Lower Upper  
152 100  
150 158.0 126.9 190.3  
115 64.6 53.4 80.0



#5  
2-Fluorophenol  
Concen: 104.782 ng  
RT: 5.469 min Scan# 541  
Delta R.T. 0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

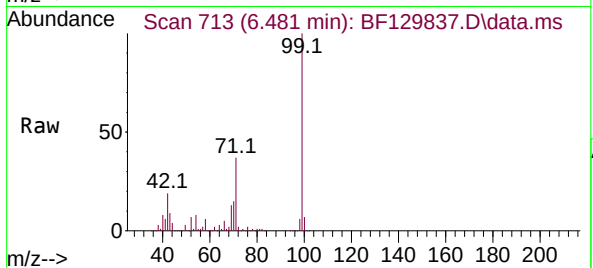
Tgt Ion:112 Resp: 869586  
Ion Ratio Lower Upper  
112 100  
64 59.8 47.6 71.4  
63 31.6 24.6 37.0





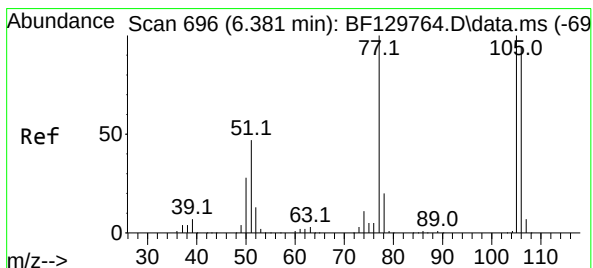
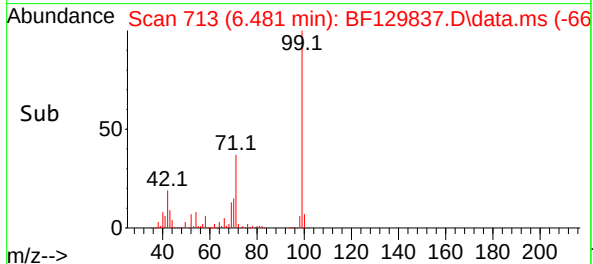
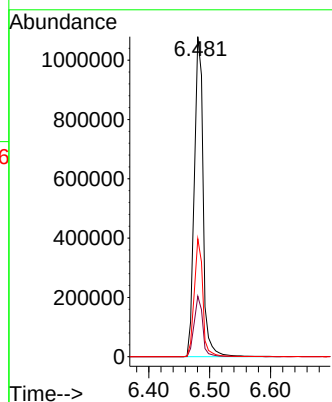
#7  
Phenol-d6  
Concen: 104.307 ng  
RT: 6.481 min Scan# 713  
Delta R.T. -0.000 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 99 Resp: 1084032

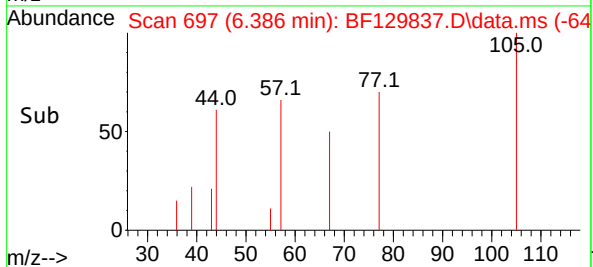
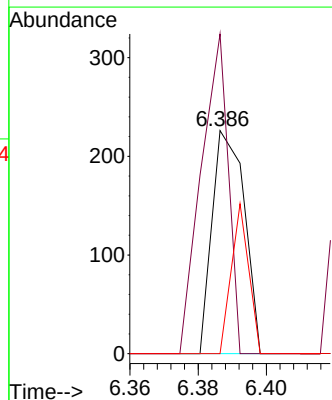
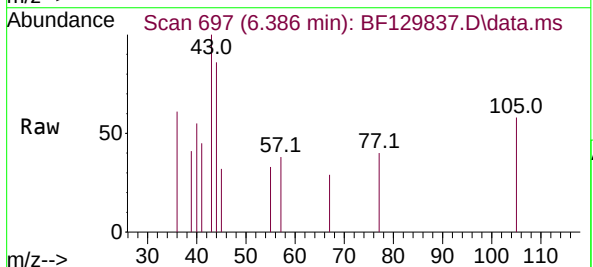
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 18.9  | 15.0  | 22.4  |
| 71  | 36.9  | 28.8  | 43.2  |

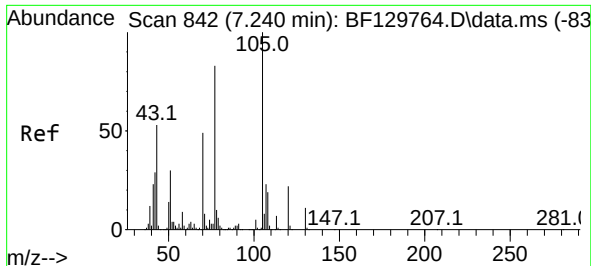


#9  
Benzaldehyde  
Concen: Below Cal  
RT: 6.386 min Scan# 697  
Delta R.T. 0.005 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion: 77 Resp: 148

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 77  | 100   |       |        |
| 105 | 143.4 | 80.3  | 120.3# |
| 106 | 0.0   | 74.3  | 114.3# |

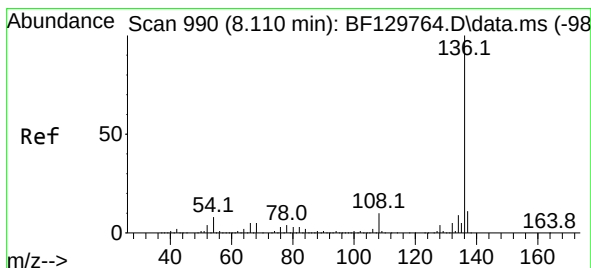
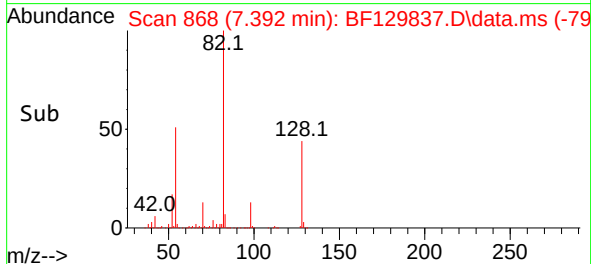
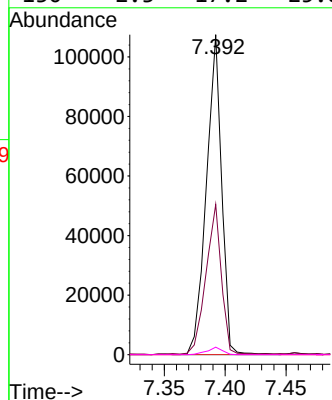
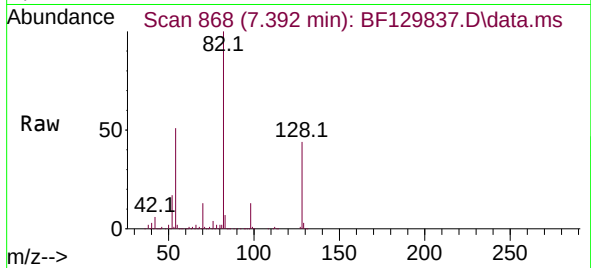




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.235 ng  
RT: 7.392 min Scan# 80  
Delta R.T. 0.153 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

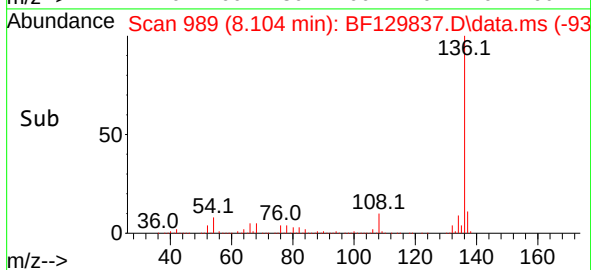
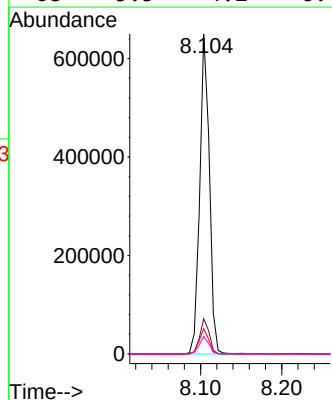
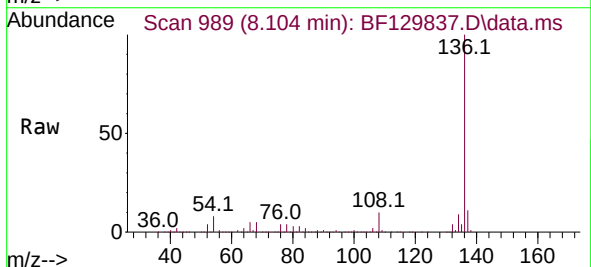
Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

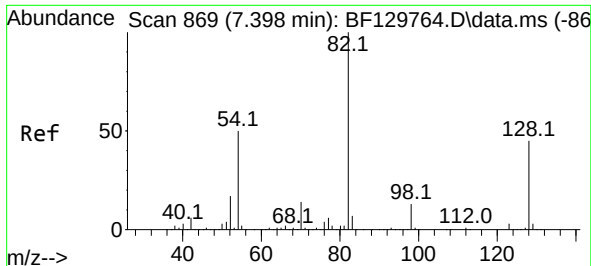
Tgt Ion: 70 Resp: 93508  
Ion Ratio Lower Upper  
70 100  
42 47.0 47.6 71.4#  
101 0.0 8.1 12.1#  
130 2.3 17.2 25.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.104 min Scan# 989  
Delta R.T. -0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion: 136 Resp: 538575  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.4 12.6  
54 7.9 6.2 9.2  
68 5.5 4.2 6.4





#23

Nitrobenzene-d5

Concen: 70.262 ng

RT: 7.392 min Scan# 868

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

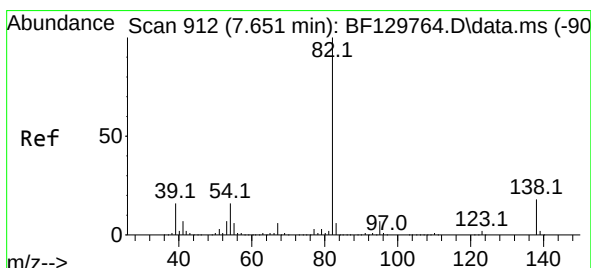
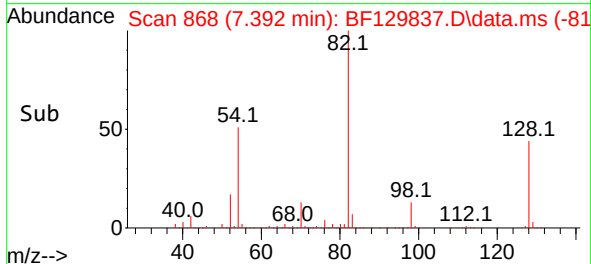
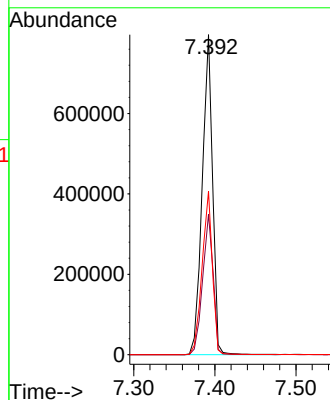
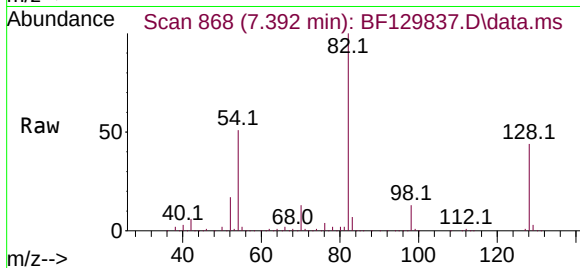
Tgt Ion: 82 Resp: 706897

Ion Ratio Lower Upper

82 100

128 43.9 36.1 54.1

54 51.1 40.0 60.0



#25

Isophorone

Concen: 40.823 ng

RT: 7.392 min Scan# 868

Delta R.T. -0.259 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

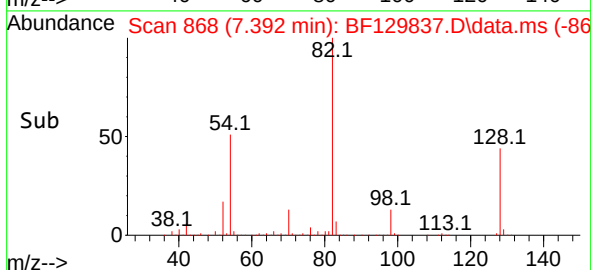
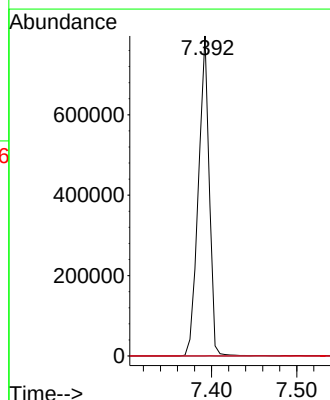
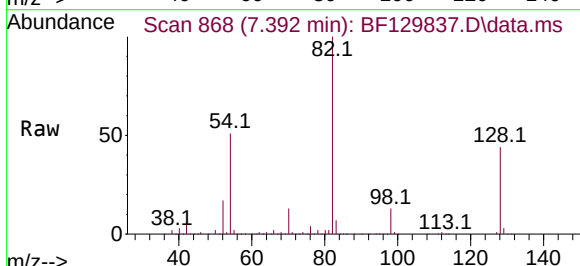
Tgt Ion: 82 Resp: 706892

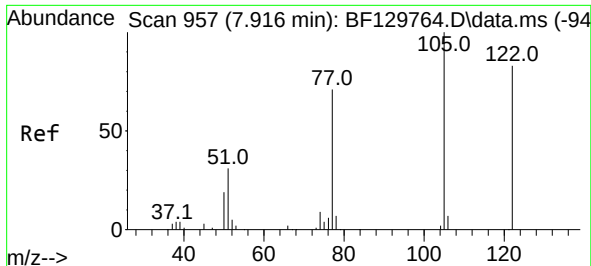
Ion Ratio Lower Upper

82 100

95 0.0 5.9 8.9#

138 0.0 14.6 21.8#

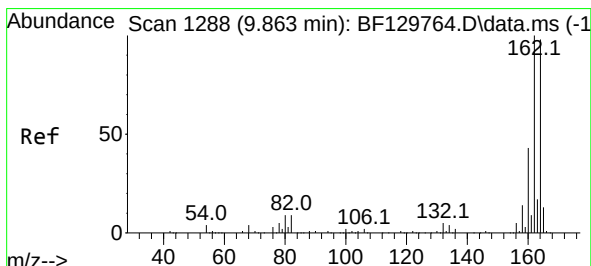
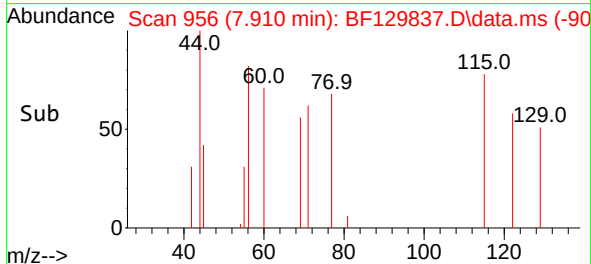
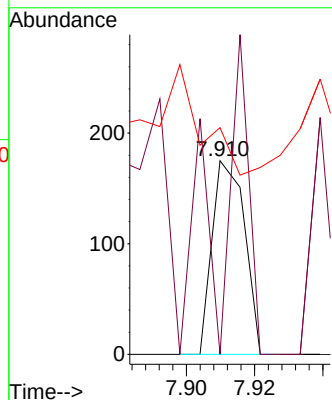
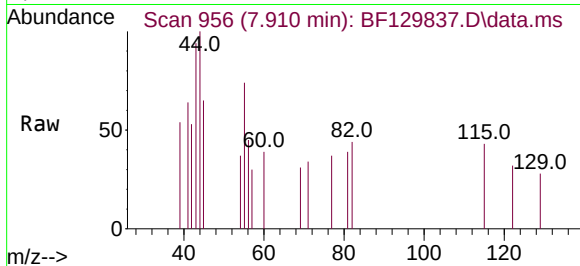




#32  
Benzoic acid  
Concen: 2.196 ng  
RT: 7.910 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

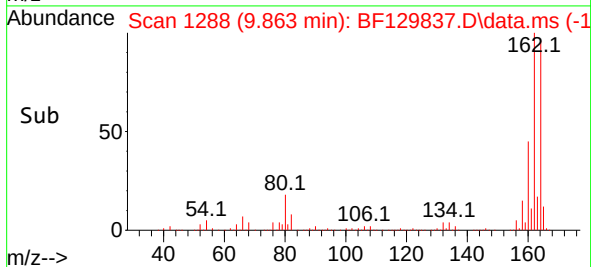
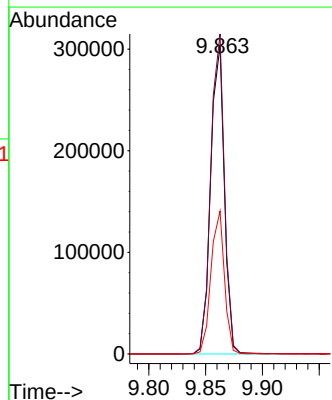
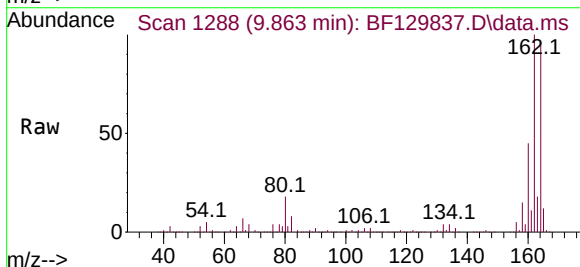
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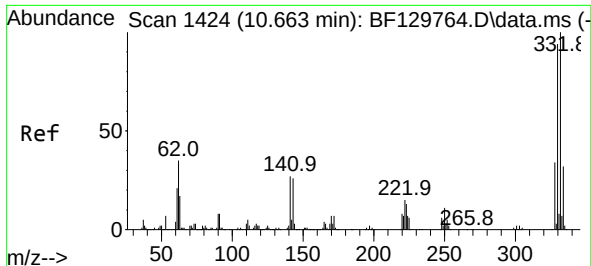
Tgt Ion:122 Resp: 115  
Ion Ratio Lower Upper  
122 100  
105 0.0 99.9 139.9#  
77 117.1 65.9 105.9#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.863 min Scan# 1288  
Delta R.T. -0.000 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion:164 Resp: 254457  
Ion Ratio Lower Upper  
164 100  
162 103.8 82.0 123.0  
160 46.3 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 82.566 ng

RT: 10.657 min Scan# 1423

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

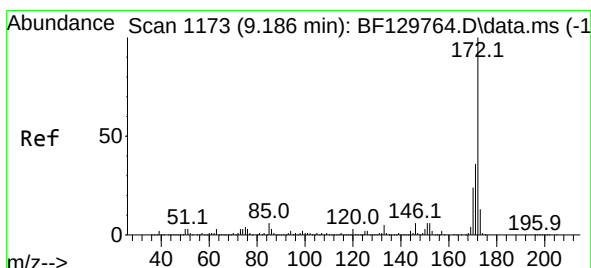
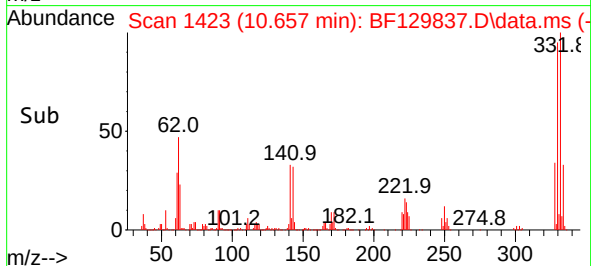
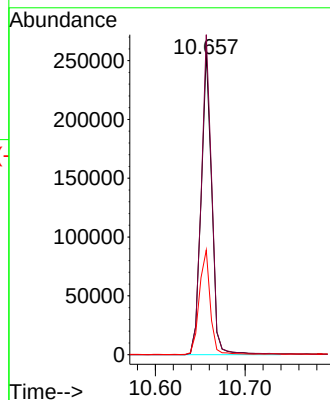
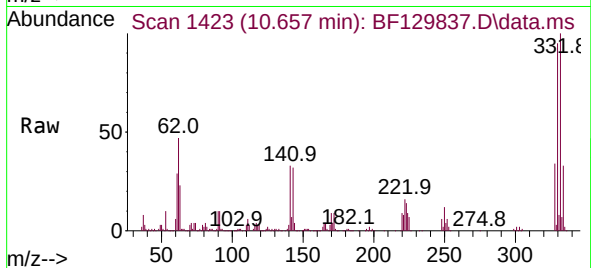
Tgt Ion:330 Resp: 210862

Ion Ratio Lower Upper

330 100

332 103.9 82.6 124.0

141 35.5 27.6 41.4



#45

2-Fluorobiphenyl

Concen: 76.757 ng

RT: 9.180 min Scan# 1172

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

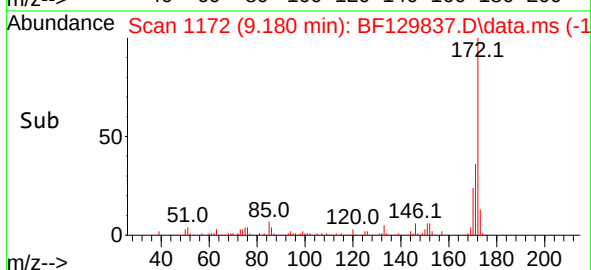
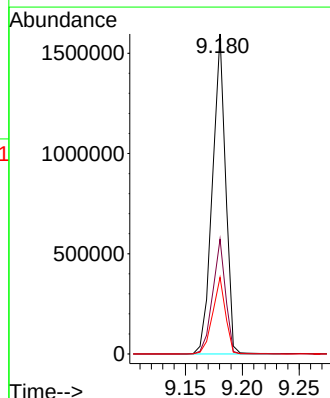
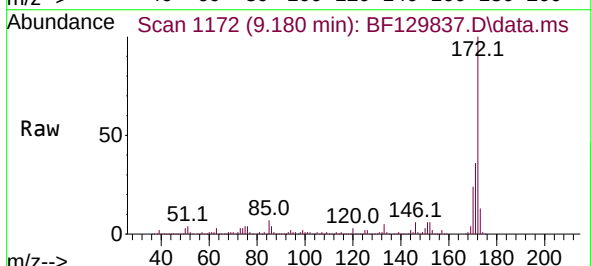
Tgt Ion:172 Resp: 1285964

Ion Ratio Lower Upper

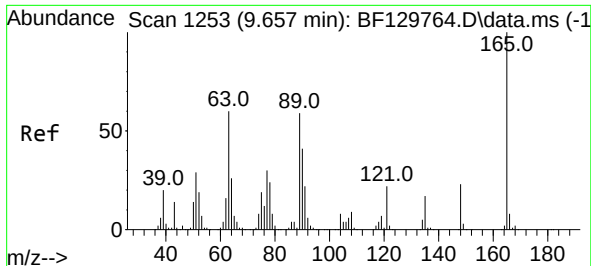
172 100

171 35.9 28.4 42.6

170 23.9 19.1 28.7







#51

2,6-Dinitrotoluene

Concen: 8.527 ng

RT: 9.863 min Scan# 1

Delta R.T. 0.206 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

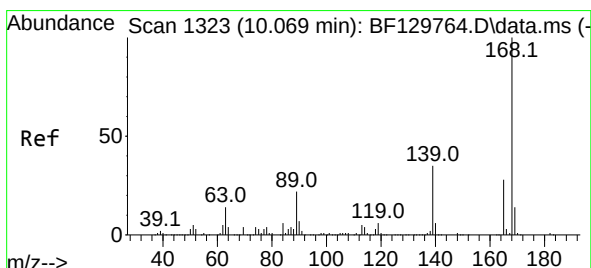
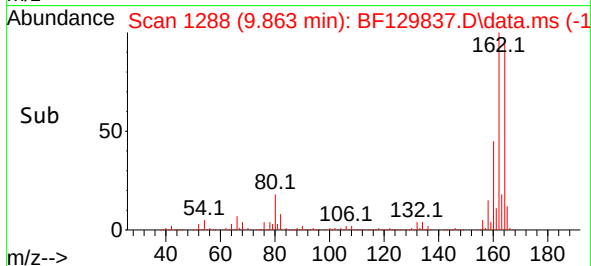
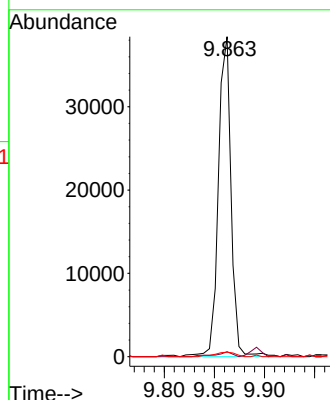
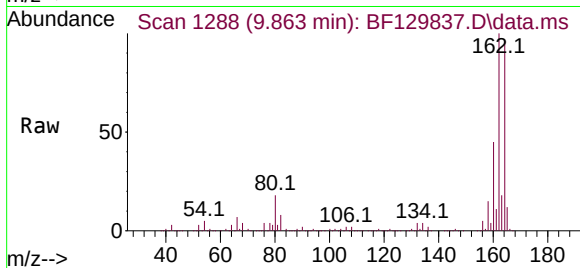
Tgt Ion:165 Resp: 33740

Ion Ratio Lower Upper

165 100

63 1.6 47.8 71.8#

89 1.4 47.2 70.8#



#57

2,4-Dinitrotoluene

Concen: 6.569 ng

RT: 9.863 min Scan# 1288

Delta R.T. -0.206 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Tgt Ion:165 Resp: 33740

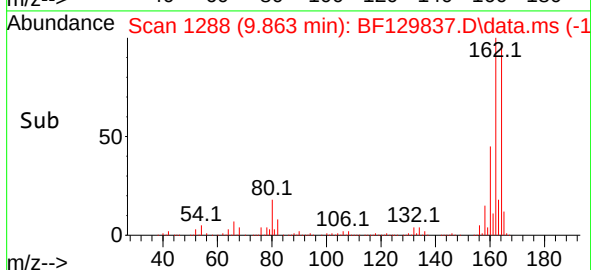
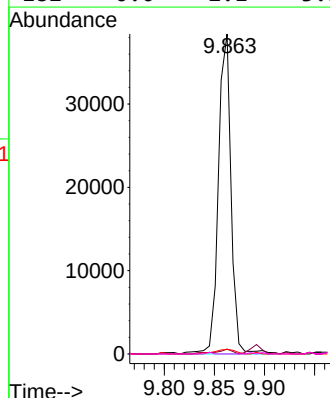
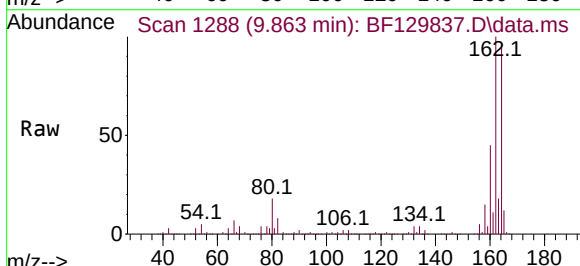
Ion Ratio Lower Upper

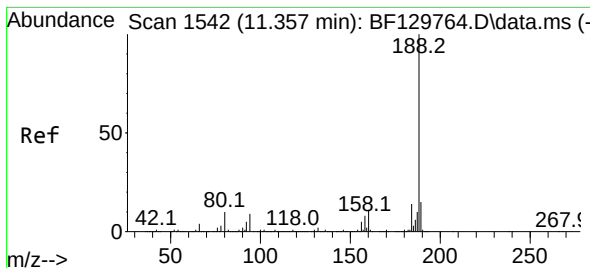
165 100

63 1.6 48.4 72.6#

89 1.4 62.3 93.5#

182 0.0 2.1 3.1#

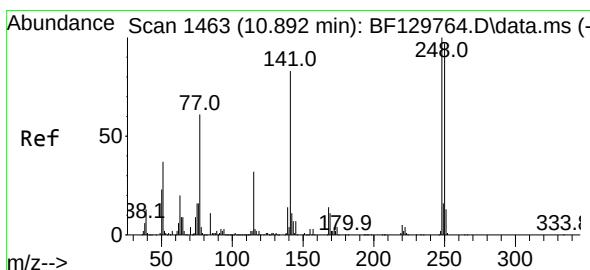
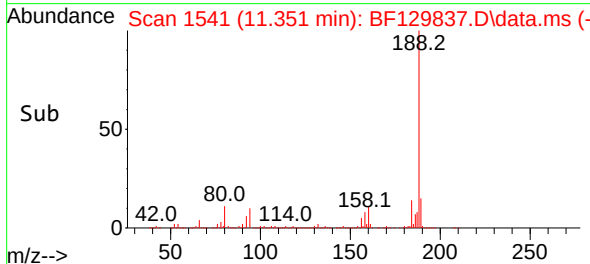
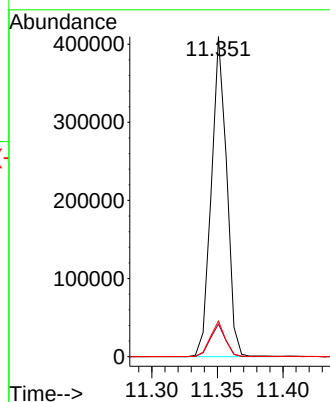
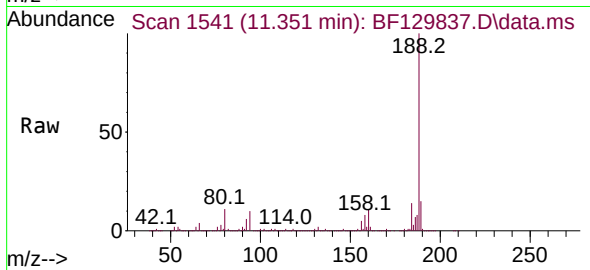




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.351 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

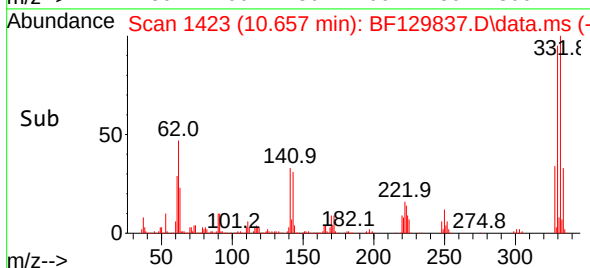
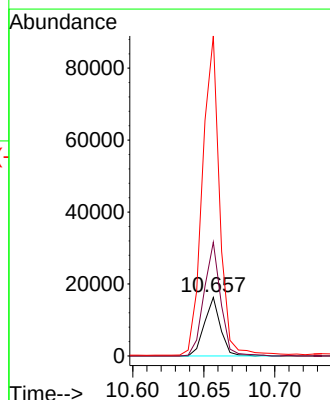
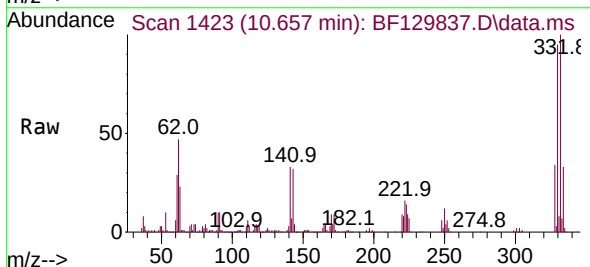
Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

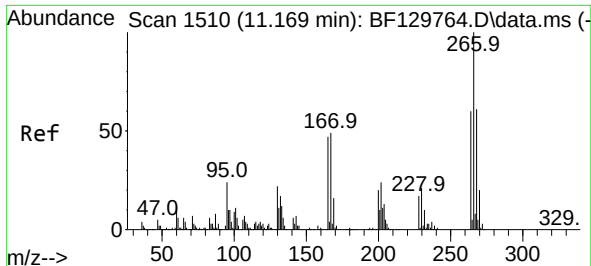
Tgt Ion:188 Resp: 333586  
Ion Ratio Lower Upper  
188 100  
94 10.2 7.4 11.2  
80 11.2 7.9 11.9



#67  
4-Bromophenyl-phenylether  
Concen: 3.288 ng  
RT: 10.657 min Scan# 1423  
Delta R.T. -0.236 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion:248 Resp: 12848  
Ion Ratio Lower Upper  
248 100  
250 194.3 77.8 116.6#  
141 546.1 66.2 99.2#

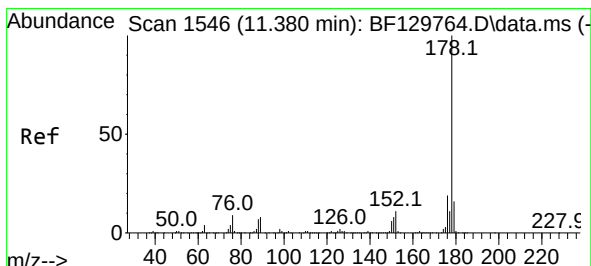
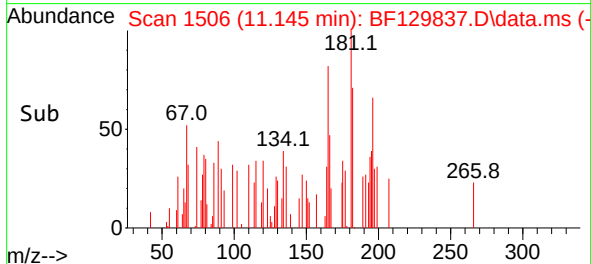
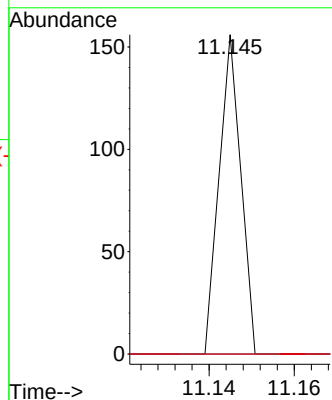
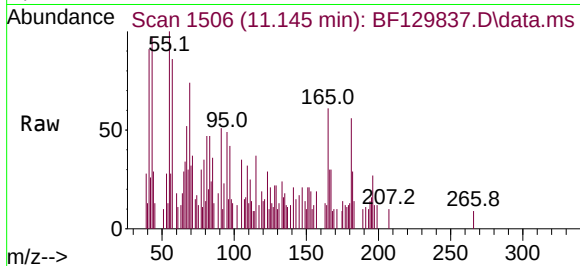




#70  
Pentachlorophenol  
Concen: 5.222 ng  
RT: 11.145 min Scan# 1510  
Delta R.T. -0.024 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

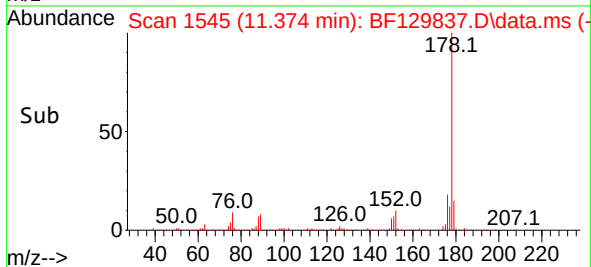
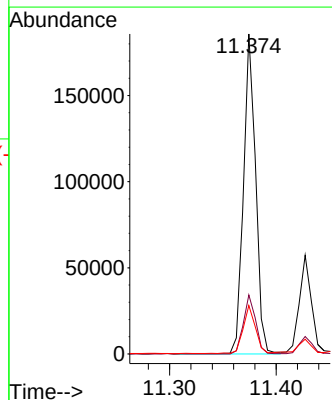
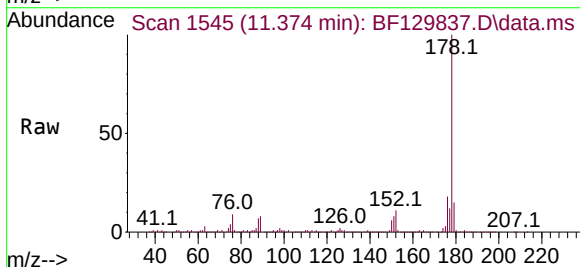
Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

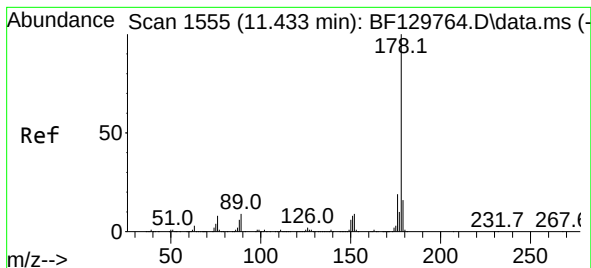
Tgt Ion:266 Resp: 55  
Ion Ratio Lower Upper  
266 100  
268 0.0 49.0 73.4#  
264 0.0 47.9 71.9#



#71  
Phenanthrene  
Concen: 7.943 ng  
RT: 11.374 min Scan# 1545  
Delta R.T. -0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion:178 Resp: 147976  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.5 23.3  
179 15.2 12.5 18.7





#72

Anthracene

Concen: 2.357 ng

RT: 11.427 min Scan# 1554

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

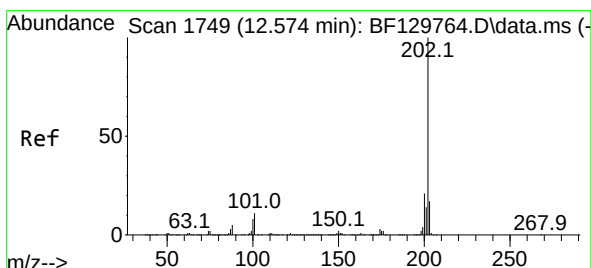
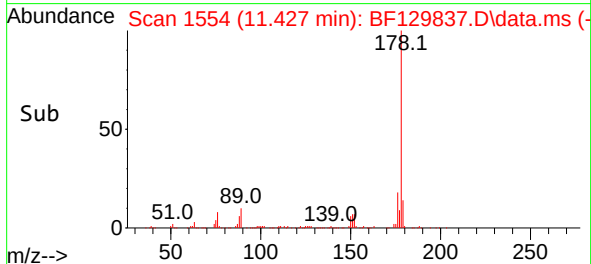
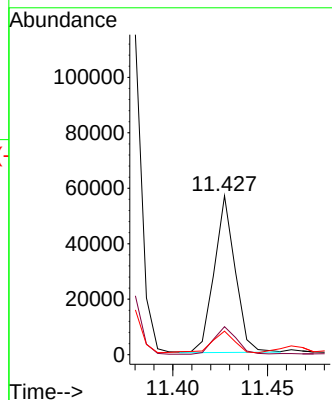
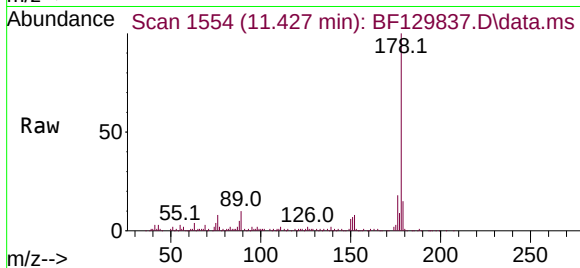
Tgt Ion:178 Resp: 43675

Ion Ratio Lower Upper

178 100

176 17.6 15.1 22.7

179 14.8 12.6 18.8



#75

Fluoranthene

Concen: 18.394 ng

RT: 12.568 min Scan# 1748

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

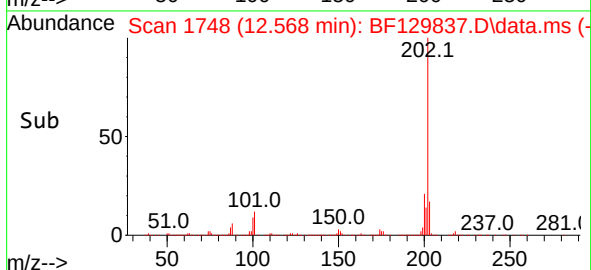
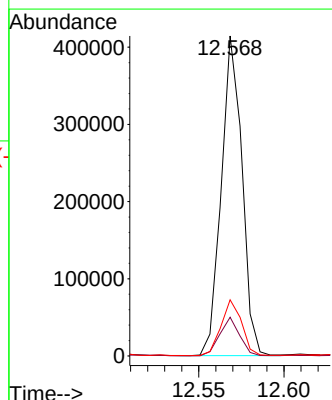
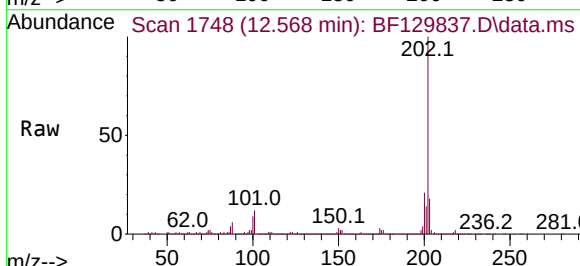
Tgt Ion:202 Resp: 350667

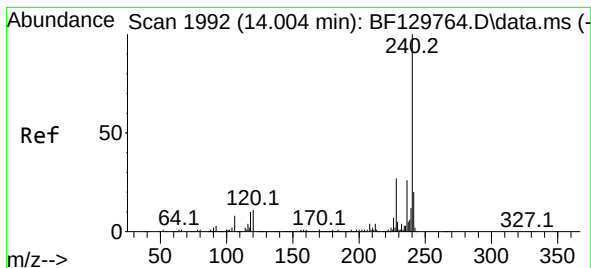
Ion Ratio Lower Upper

202 100

101 12.1 0.0 30.7

203 17.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.004 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

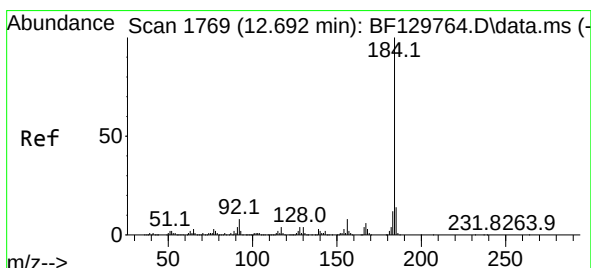
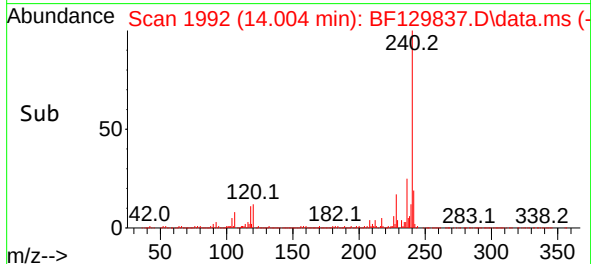
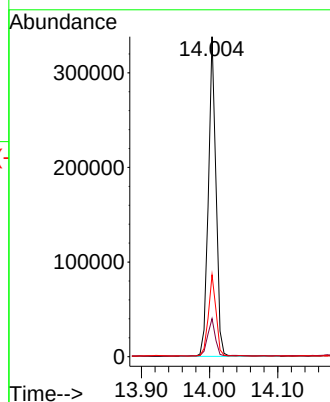
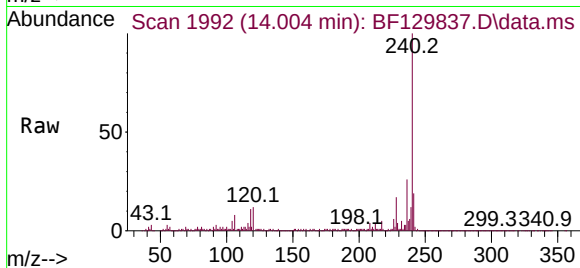
Tgt Ion:240 Resp: 263556

Ion Ratio Lower Upper

240 100

120 11.9 9.2 13.8

236 25.6 20.7 31.1



#77

Benzidine

Concen: Below Cal

RT: 12.692 min Scan# 1769

Delta R.T. -0.000 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

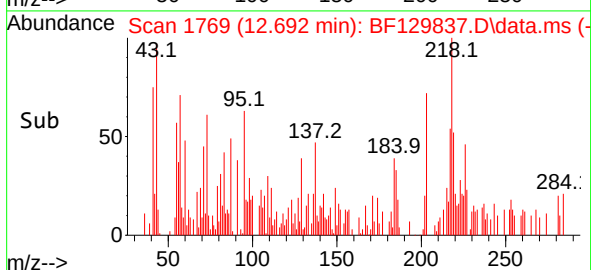
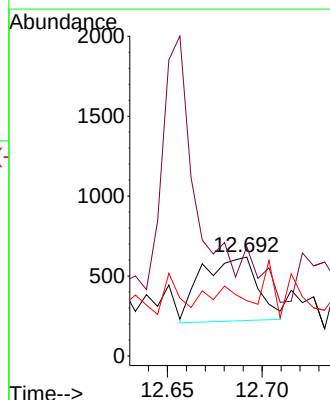
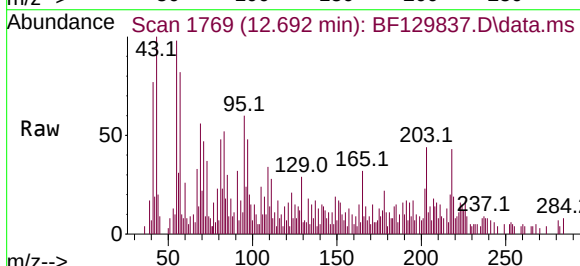
Tgt Ion:184 Resp: 831

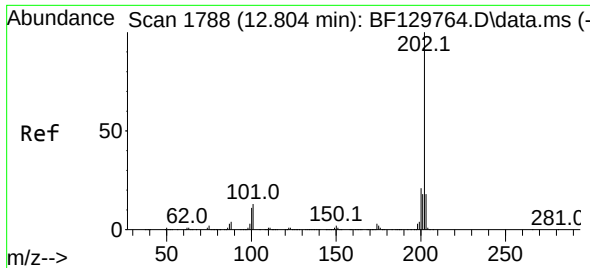
Ion Ratio Lower Upper

184 100

185 110.3 11.4 17.2#

183 55.9 9.4 14.2#

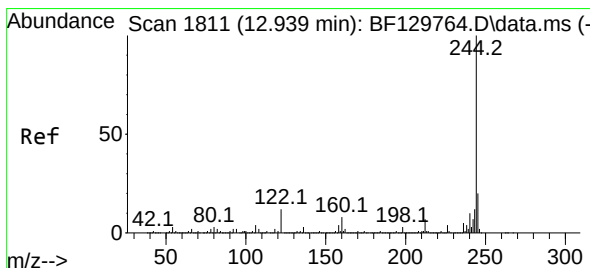
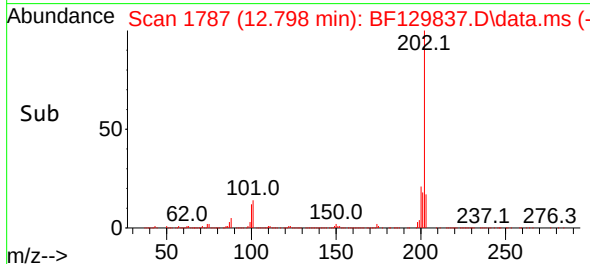
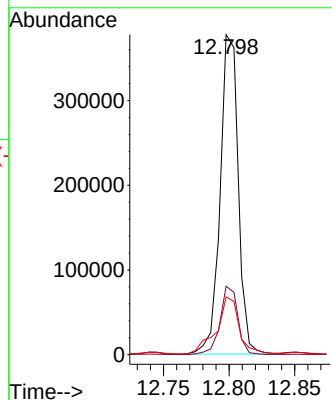
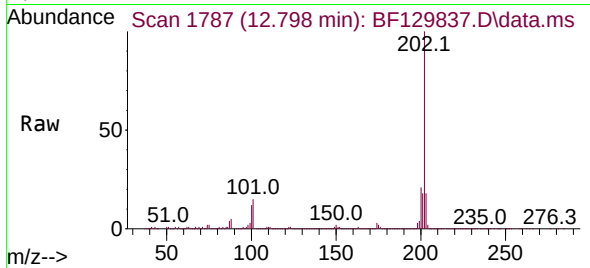




#78  
Pyrene  
Concen: 15.809 ng  
RT: 12.798 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

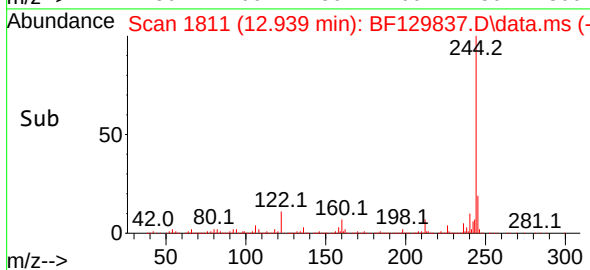
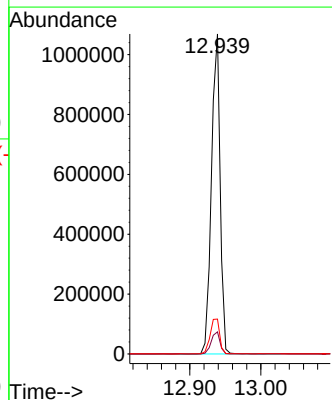
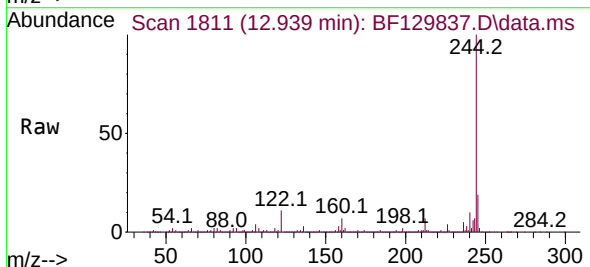
Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

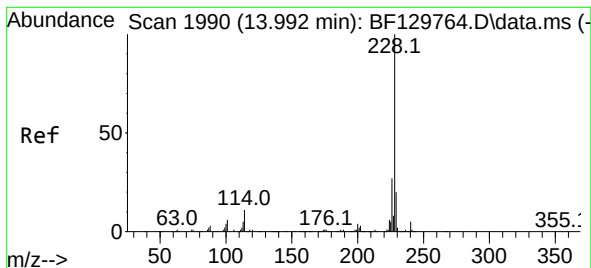
Tgt Ion:202 Resp: 362075  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.6  
203 18.1 14.1 21.1



#79  
Terphenyl-d14  
Concen: 57.659 ng  
RT: 12.939 min Scan# 1811  
Delta R.T. -0.000 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion:244 Resp: 913274  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.9 8.9  
122 10.9 9.9 14.9





#81

Benzo(a)anthracene

Concen: 12.922 ng

RT: 13.992 min Scan# 1990

Delta R.T. -0.000 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

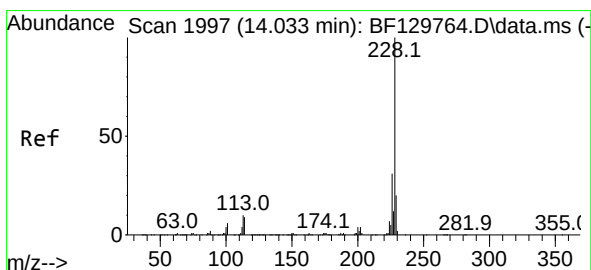
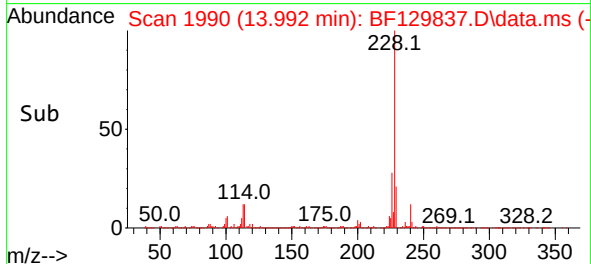
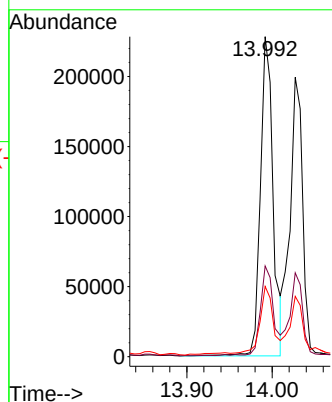
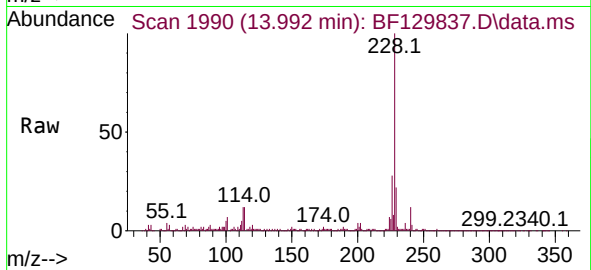
Tgt Ion:228 Resp: 234277

Ion Ratio Lower Upper

228 100

226 28.4 21.4 32.0

229 21.9 16.1 24.1



#83

Chrysene

Concen: 12.140 ng

RT: 14.027 min Scan# 1996

Delta R.T. -0.006 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

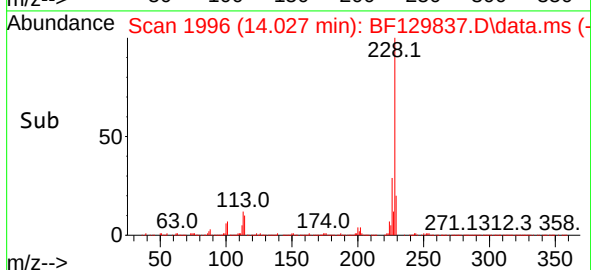
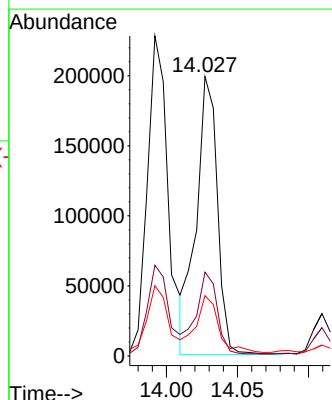
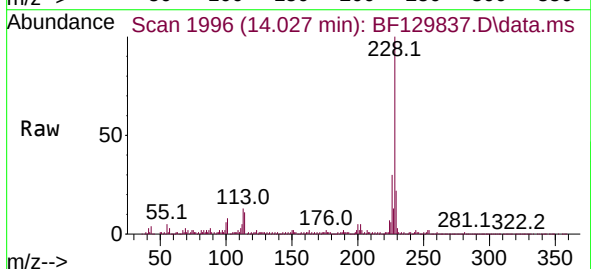
Tgt Ion:228 Resp: 206028

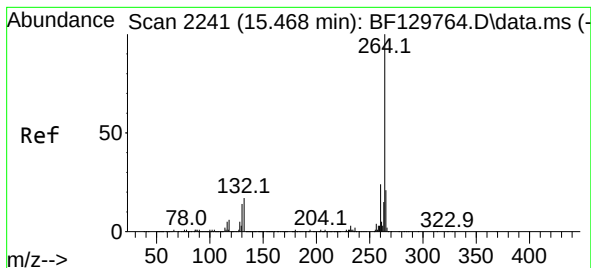
Ion Ratio Lower Upper

228 100

226 30.0 24.4 36.6

229 21.6 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.480 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

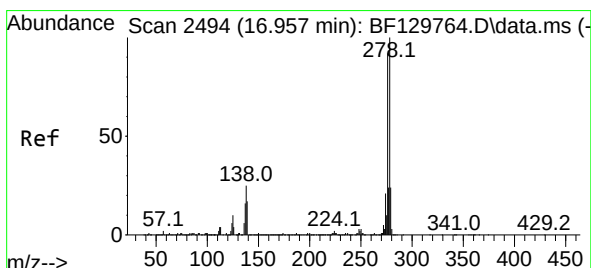
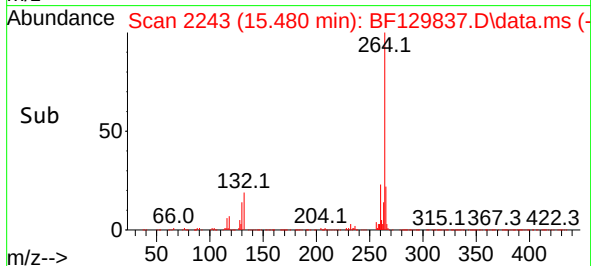
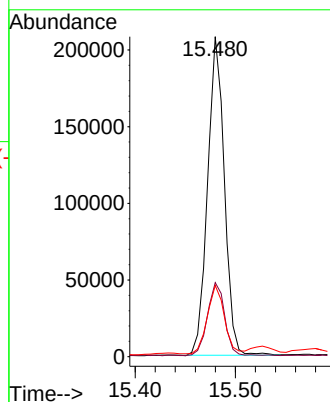
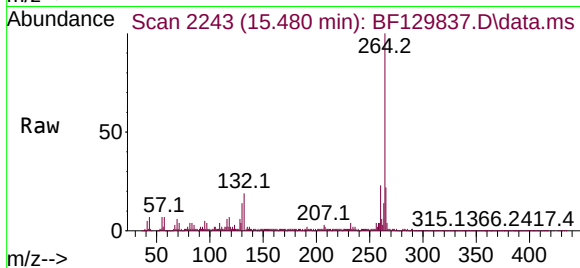
Tgt Ion:264 Resp: 242496

Ion Ratio Lower Upper

264 100

260 23.2 19.1 28.7

265 22.2 16.7 25.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.393 ng

RT: 16.968 min Scan# 2496

Delta R.T. 0.012 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

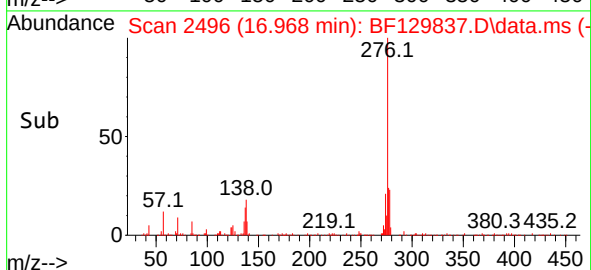
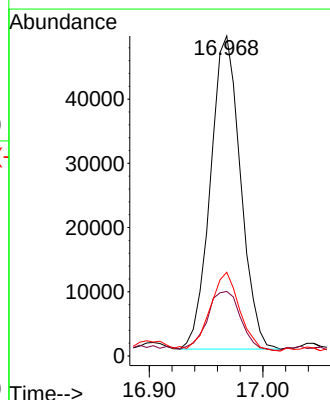
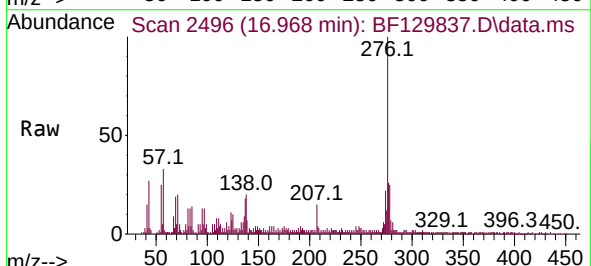
Tgt Ion:276 Resp: 89783

Ion Ratio Lower Upper

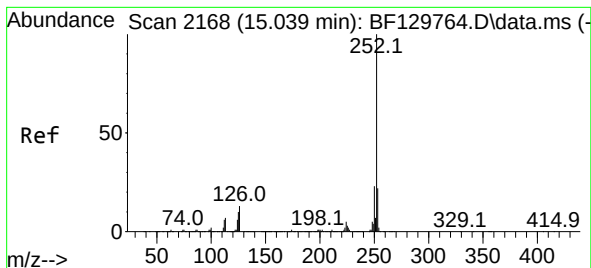
276 100

138 21.2 19.8 29.8

277 24.8 20.4 30.6







#88

Benzo(b)fluoranthene

Concen: 23.366 ng

RT: 15.051 min Scan# 2168

Delta R.T. 0.012 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

Instrument :

BNA\_F

ClientSampleId :

HD-02-081222

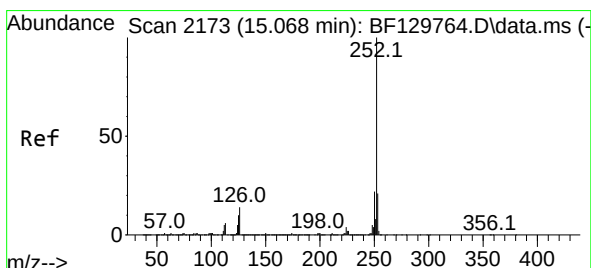
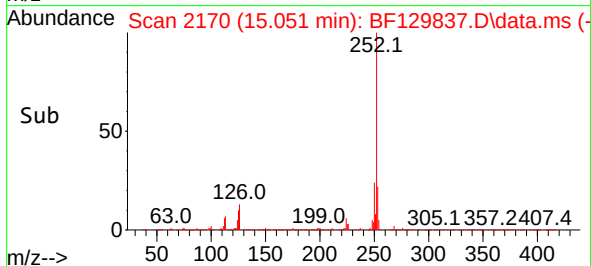
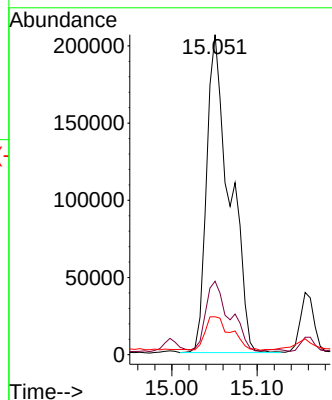
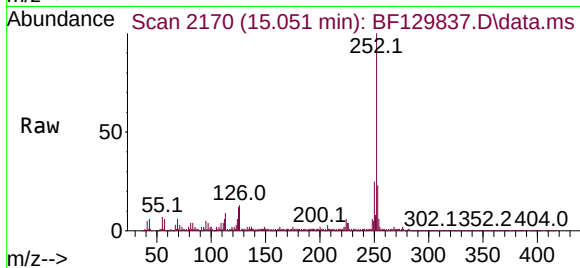
Tgt Ion:252 Resp: 387997

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 11.8 8.3 12.5



#89

Benzo(k)fluoranthene

Concen: 24.365 ng

RT: 15.051 min Scan# 2170

Delta R.T. -0.018 min

Lab File: BF129837.D

Acq: 17 Aug 2022 10:51

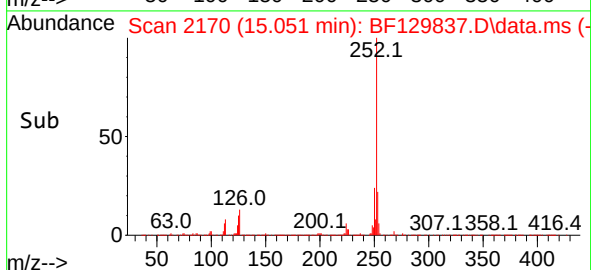
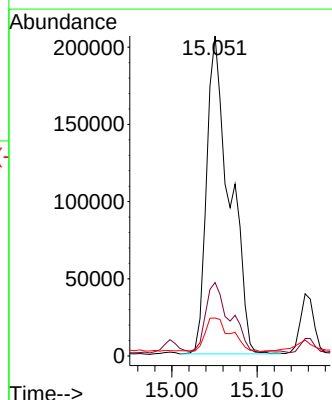
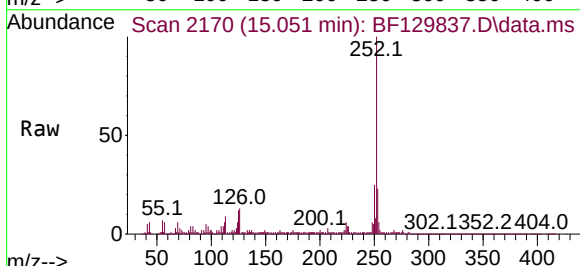
Tgt Ion:252 Resp: 387997

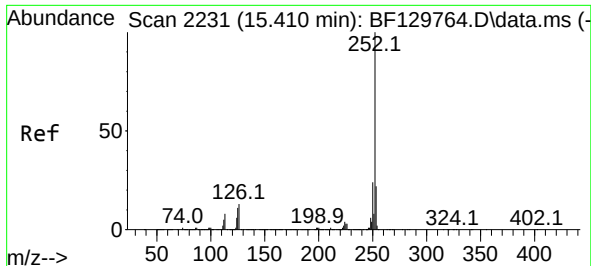
Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

125 11.8 8.3 12.5

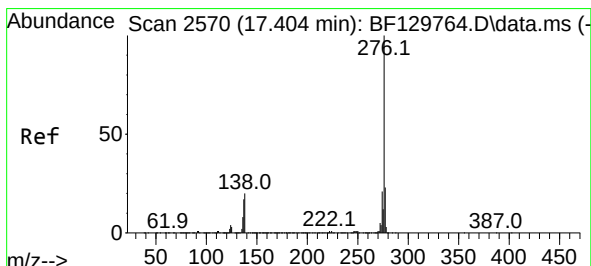
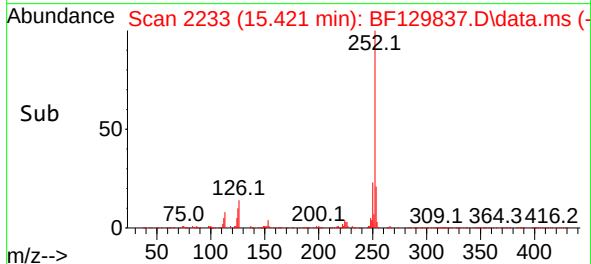
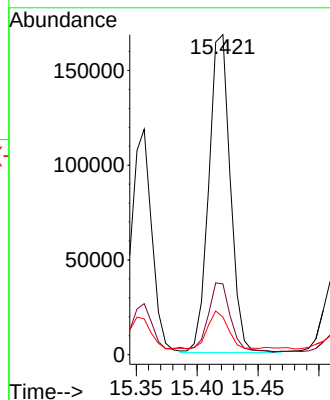
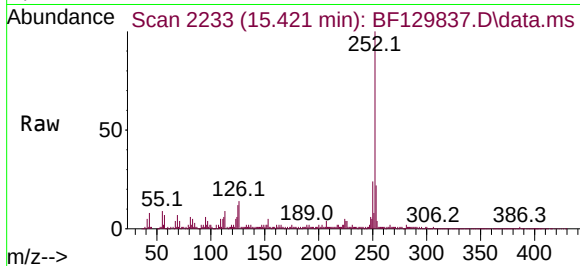




#90  
Benzo(a)pyrene  
Concen: 15.811 ng  
RT: 15.421 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Instrument :  
BNA\_F  
ClientSampleId :  
HD-02-081222

Tgt Ion:252 Resp: 206748  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.2 25.8  
125 11.8 8.8 13.2



#92  
Benzo(g,h,i)perylene  
Concen: 6.057 ng  
RT: 17.421 min Scan# 2573  
Delta R.T. 0.017 min  
Lab File: BF129837.D  
Acq: 17 Aug 2022 10:51

Tgt Ion:276 Resp: 83000  
Ion Ratio Lower Upper  
276 100  
277 25.1 18.2 27.4  
138 22.2 15.8 23.8

