

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF0222323\  
 Data File : BF132535.D  
 Acq On : 23 Feb 2023 23:04  
 Operator : CG\JU  
 Sample : 01639-01DL 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-02212023DL

Quant Time: Feb 24 00:41:53 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 23 00:59:42 2023  
 Response via : Initial Calibration

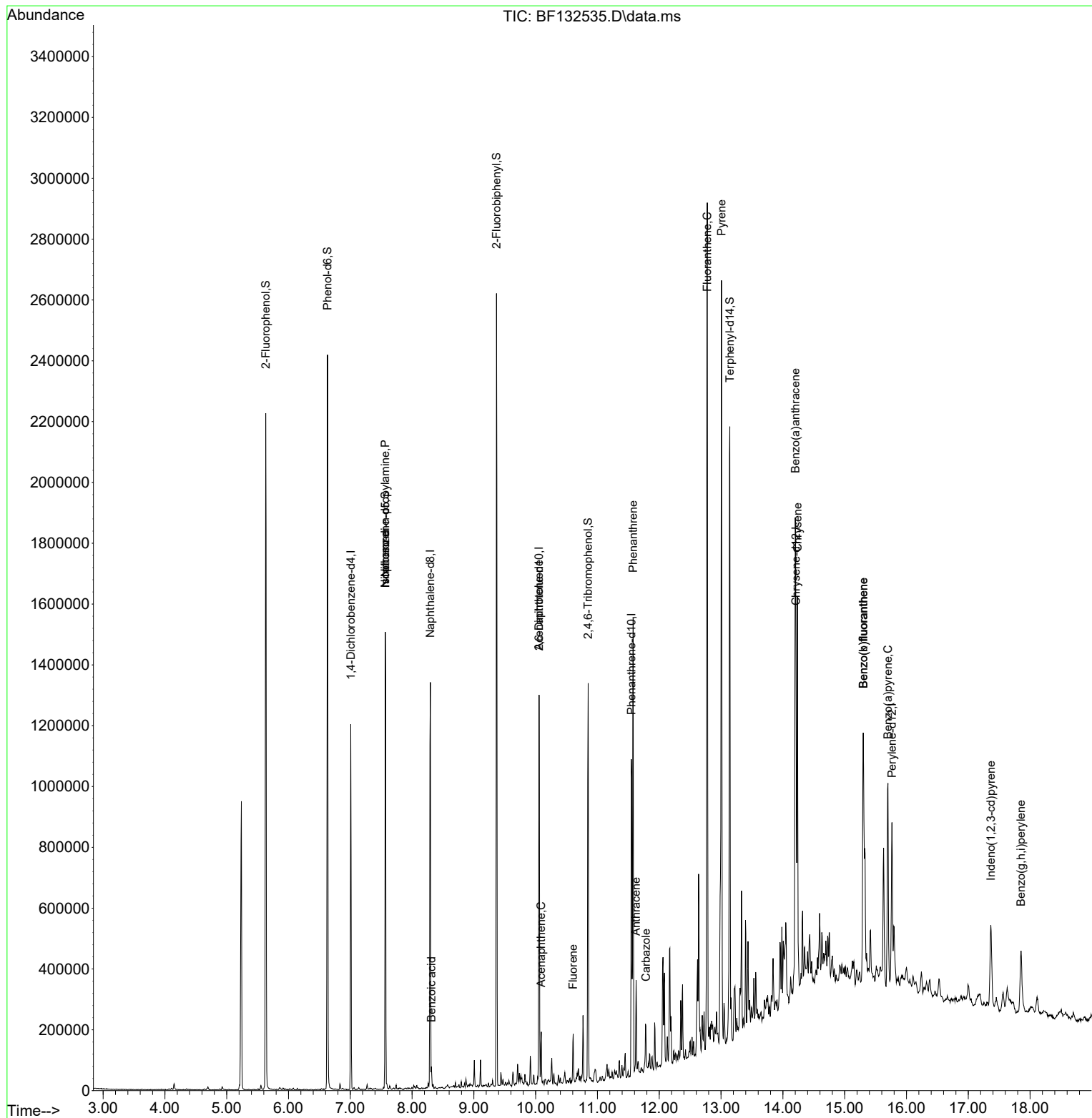
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.007  | 152  | 158078   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.295  | 136  | 542944   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.054 | 164  | 242068   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.548 | 188  | 412560   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 14.213 | 240  | 304296   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.765 | 264  | 241008   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.631  | 112  | 587642   | 60.333 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.631  | 99   | 738397   | 58.088 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.566  | 82   | 468738   | 40.960 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.848 | 330  | 136869   | 52.355 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.366  | 172  | 733965   | 46.168 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.142 | 244  | 740336   | 41.135 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.566  | 70   | 62840    | 8.033  | ng    | # 81     |
| 25) Isophorone                | 7.566  | 82   | 468670   | 21.361 | ng    | # 67     |
| 32) Benzoic acid              | 8.313  | 122  | 70       | 3.846  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene        | 10.054 | 165  | 33297    | 8.295  | ng    | # 22     |
| 52) Acenaphthene              | 10.089 | 154  | 30578    | 2.083  | ng    | 99       |
| 58) Fluorene                  | 10.607 | 166  | 44705    | 2.731  | ng    | 88       |
| 71) Phenanthrene              | 11.577 | 178  | 544050   | 25.455 | ng    | 97       |
| 72) Anthracene                | 11.624 | 178  | 108560   | 4.933  | ng    | 99       |
| 73) Carbazole                 | 11.783 | 167  | 59177    | 2.982  | ng    | 96       |
| 75) Fluoranthene              | 12.777 | 202  | 1137704  | 48.693 | ng    | 98       |
| 78) Pyrene                    | 13.007 | 202  | 1028881  | 37.190 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.201 | 228  | 496453   | 21.805 | ng    | 97       |
| 83) Chrysene                  | 14.236 | 228  | 499133   | 23.443 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.365 | 276  | 195130   | 12.356 | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 15.301 | 252  | 698223   | 43.230 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.301 | 252  | 698223   | 44.172 | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.701 | 252  | 348222   | 23.036 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 17.854 | 276  | 185016   | 13.910 | ng    | 97       |

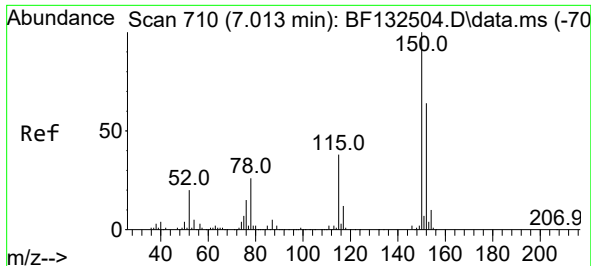
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF022323\  
Data File : BF132535.D  
Acq On : 23 Feb 2023 23:04  
Operator : CG\JU  
Sample : 01639-01DL 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

Quant Time: Feb 24 00:41:53 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 23 00:59:42 2023  
Response via : Initial Calibration

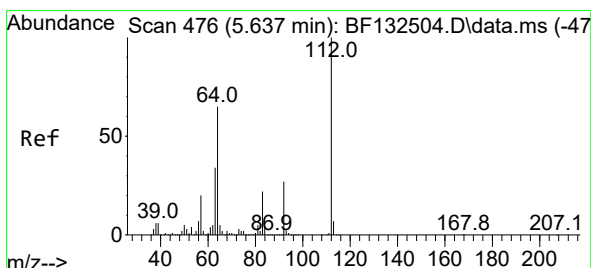
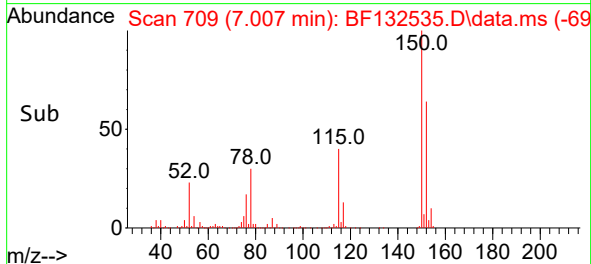
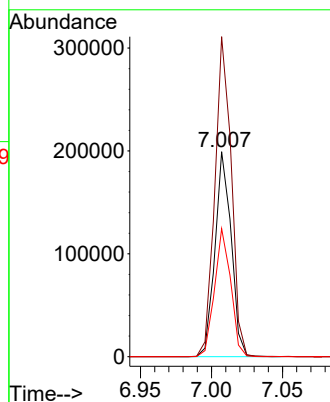
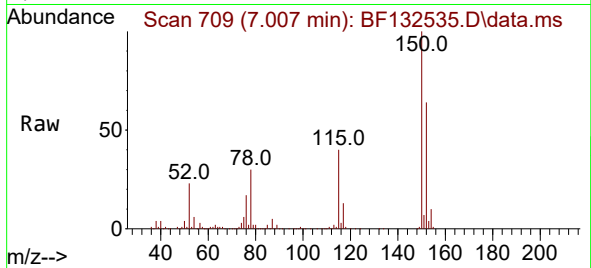




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.007 min Scan# 710  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

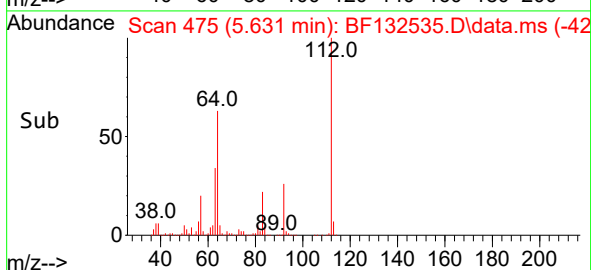
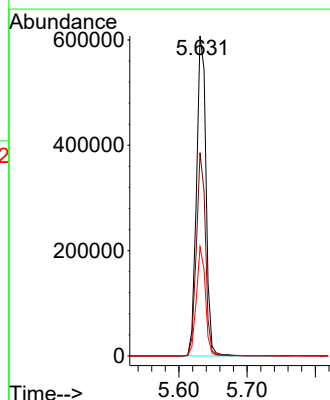
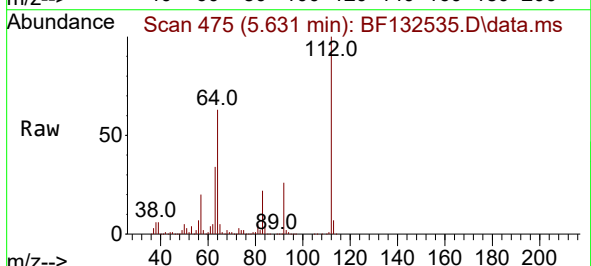
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BNA\_F  
ClientSampleId :  
TR-05-02212023DL

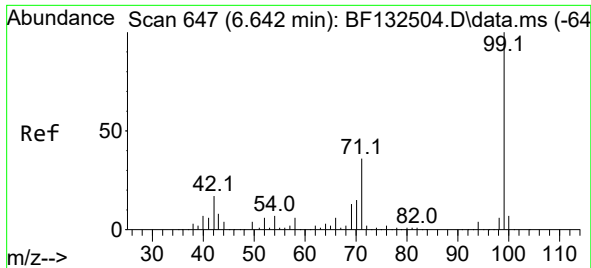
Tgt Ion:152 Resp: 158078  
Ion Ratio Lower Upper  
152 100  
150 156.2 125.4 188.2  
115 62.5 47.8 71.6



#5  
2-Fluorophenol  
Concen: 60.333 ng  
RT: 5.631 min Scan# 475  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:112 Resp: 587642  
Ion Ratio Lower Upper  
112 100  
64 63.5 51.6 77.4  
63 34.1 27.4 41.2

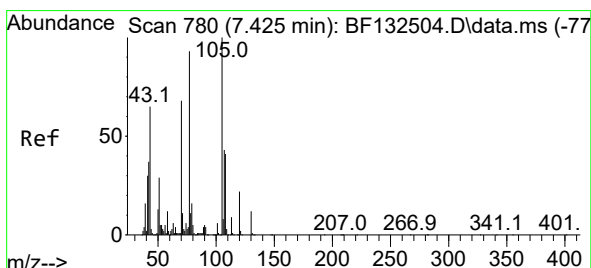
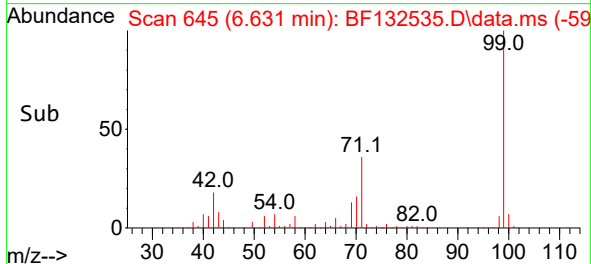
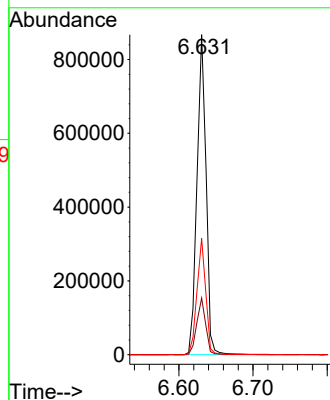
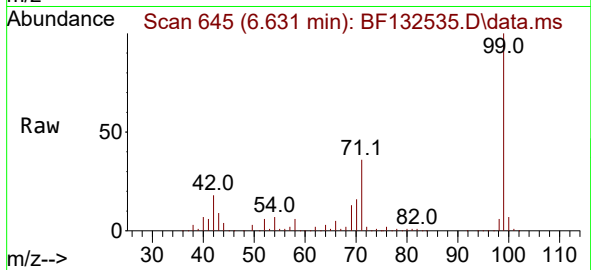




#7  
Phenol-d6  
Concen: 58.088 ng  
RT: 6.631 min Scan# 64  
Delta R.T. -0.012 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

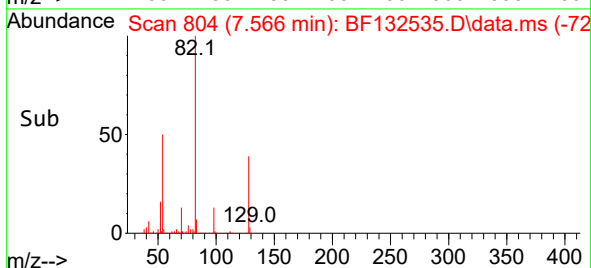
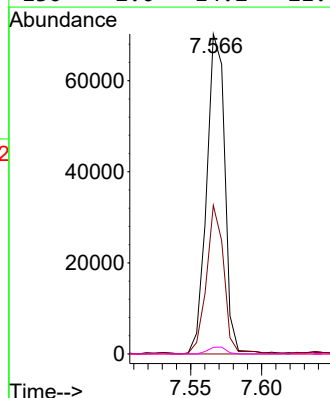
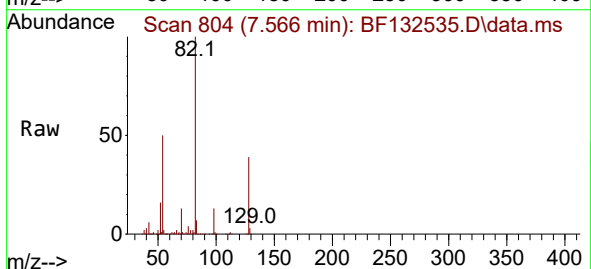
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

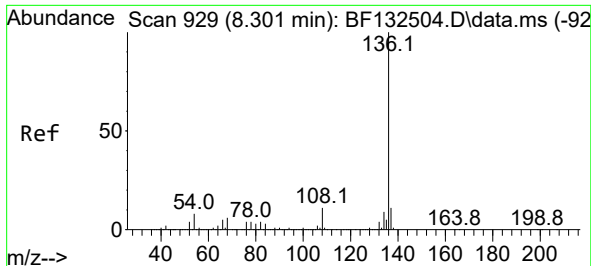
Tgt Ion: 99 Resp: 738397  
Ion Ratio Lower Upper  
99 100  
42 17.7 13.9 20.9  
71 36.3 28.5 42.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 8.033 ng  
RT: 7.566 min Scan# 804  
Delta R.T. 0.141 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion: 70 Resp: 62840  
Ion Ratio Lower Upper  
70 100  
42 46.5 44.1 66.1  
101 0.0 7.4 11.2#  
130 2.0 14.2 21.4#

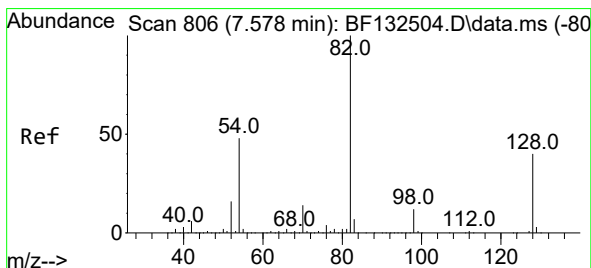
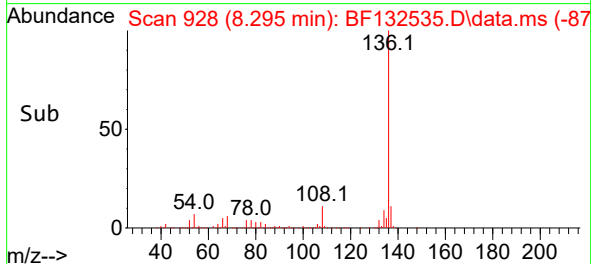
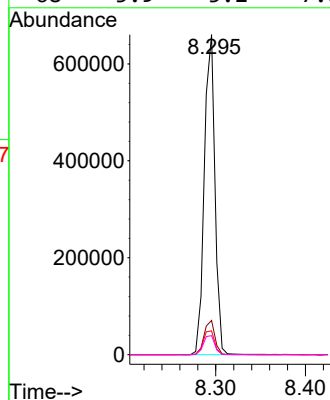
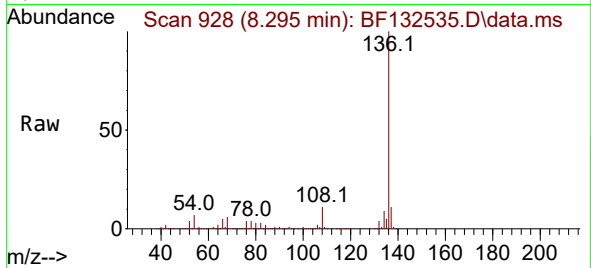




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.295 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

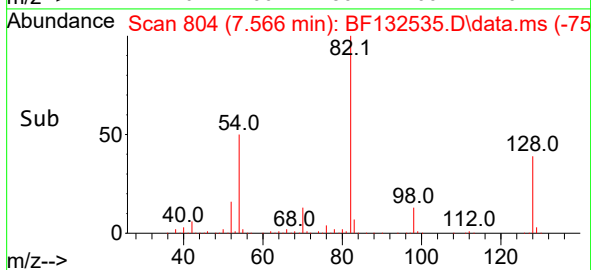
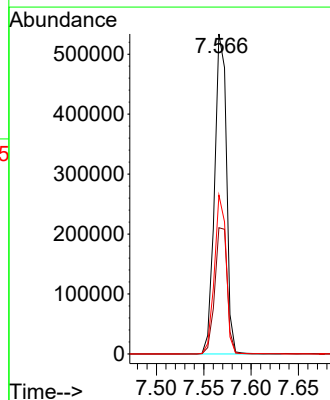
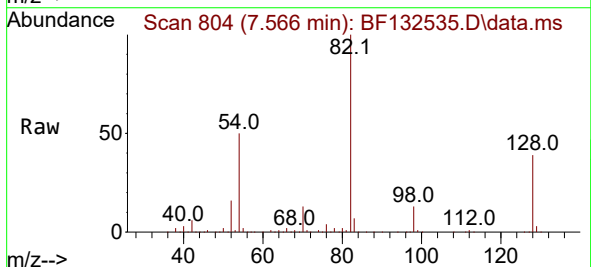
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

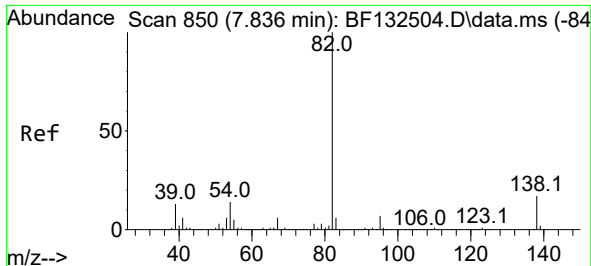
Tgt Ion:136 Resp: 542944  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.9 13.3  
54 7.5 6.2 9.4  
68 5.9 5.2 7.8



#23  
Nitrobenzene-d5  
Concen: 40.960 ng  
RT: 7.566 min Scan# 804  
Delta R.T. -0.012 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion: 82 Resp: 468738  
Ion Ratio Lower Upper  
82 100  
128 39.5 32.2 48.2  
54 49.7 38.4 57.6

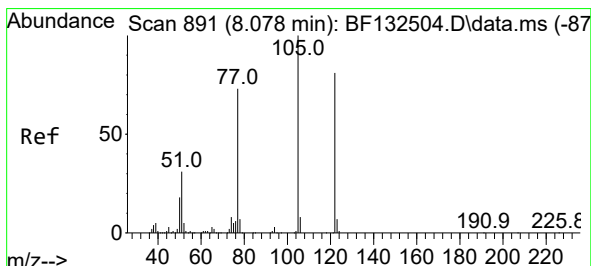
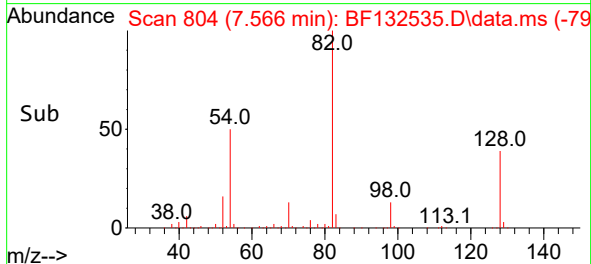
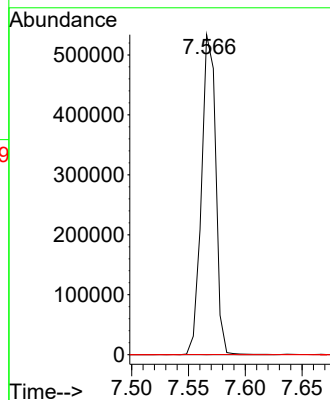
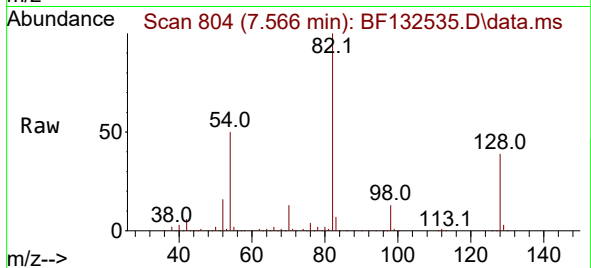




#25  
Isophorone  
Concen: 21.361 ng  
RT: 7.566 min Scan# 80  
Delta R.T. -0.270 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

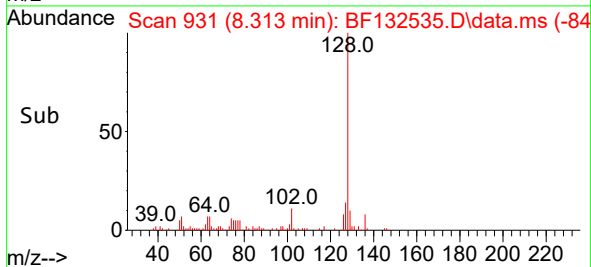
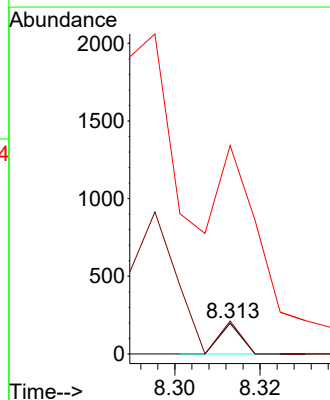
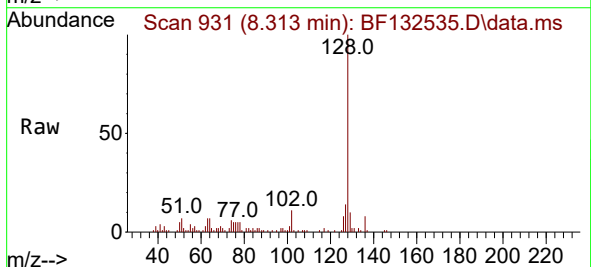
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ClientSampleId :  
TR-05-02212023DL

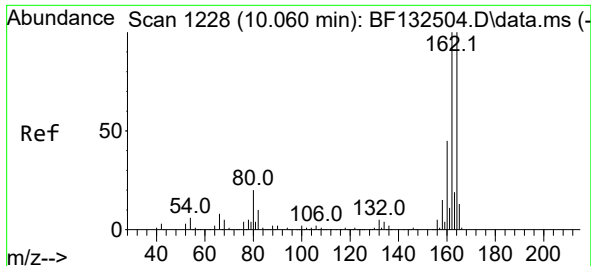
Tgt Ion: 82 Resp: 468670  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.3 19.9#



#32  
Benzoic acid  
Concen: 3.846 ng  
RT: 8.313 min Scan# 931  
Delta R.T. 0.235 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion: 122 Resp: 70  
Ion Ratio Lower Upper  
122 100  
105 107.1 102.6 142.6  
77 677.8 70.2 110.2#

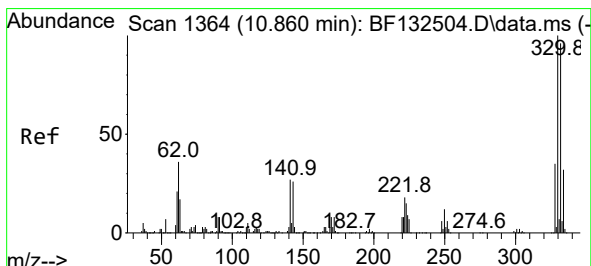
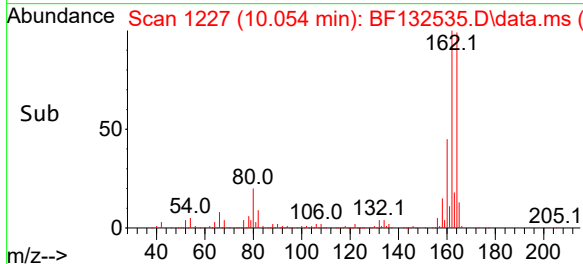
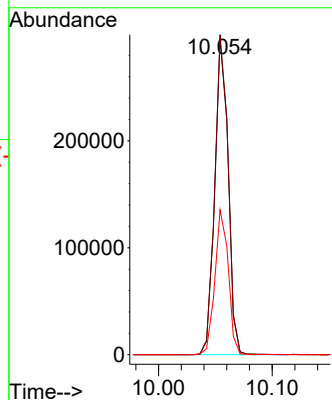
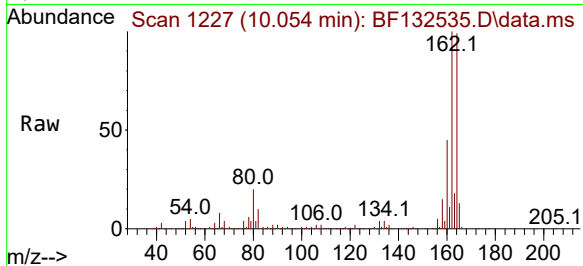




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.054 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

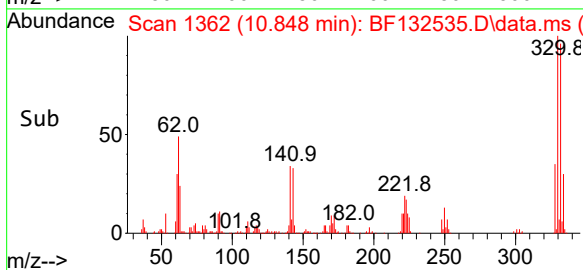
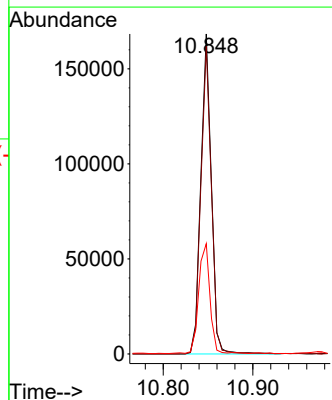
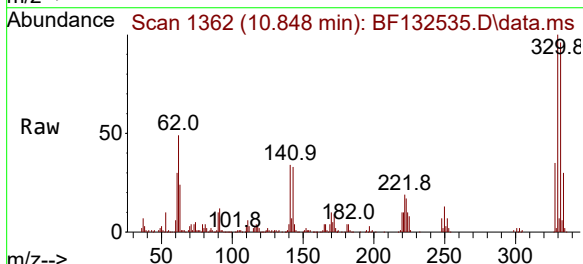
Instrument :  
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ClientSampleId :  
TR-05-02212023DL

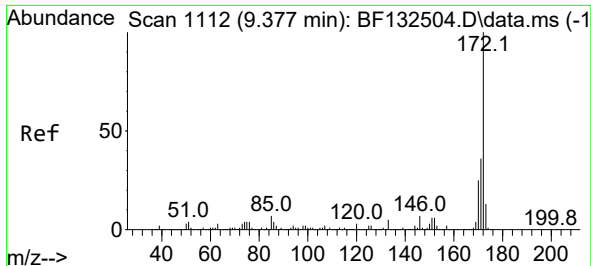
Tgt Ion:164 Resp: 242068  
Ion Ratio Lower Upper  
164 100  
162 101.2 79.8 119.8  
160 45.8 35.8 53.6



#42  
2,4,6-Tribromophenol  
Concen: 52.355 ng  
RT: 10.848 min Scan# 1362  
Delta R.T. -0.012 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:330 Resp: 136869  
Ion Ratio Lower Upper  
330 100  
332 96.0 76.2 114.4  
141 36.9 28.4 42.6

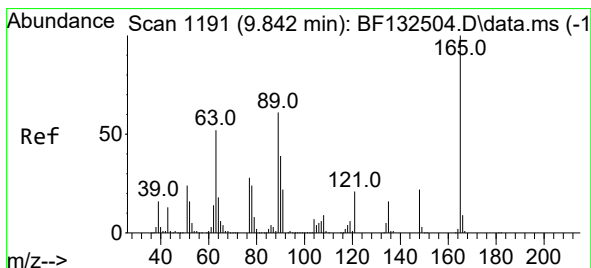
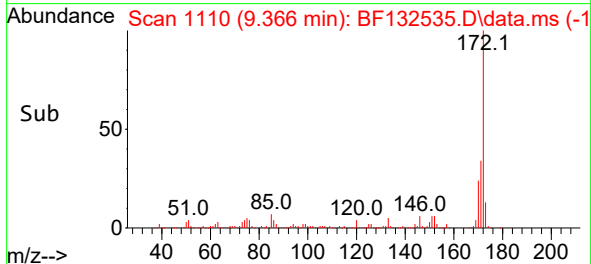
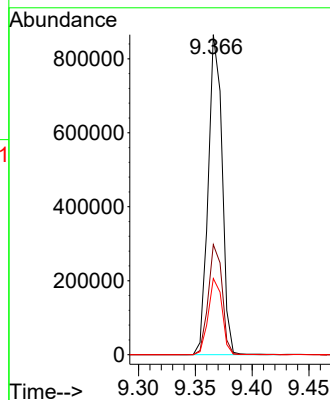
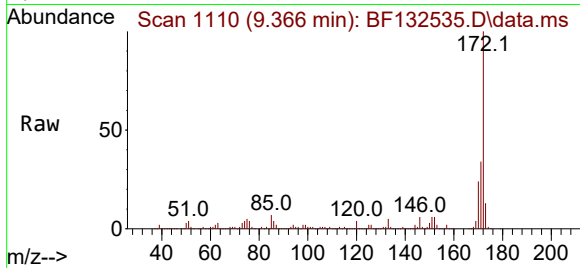




#45  
2-Fluorobiphenyl  
Concen: 46.168 ng  
RT: 9.366 min Scan# 1110  
Delta R.T. -0.011 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

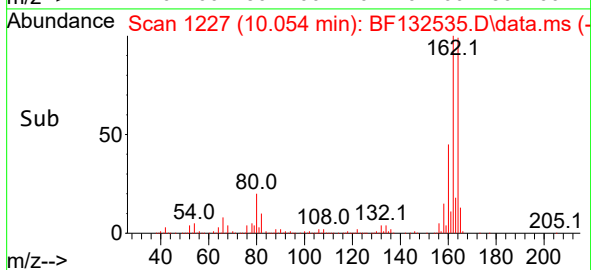
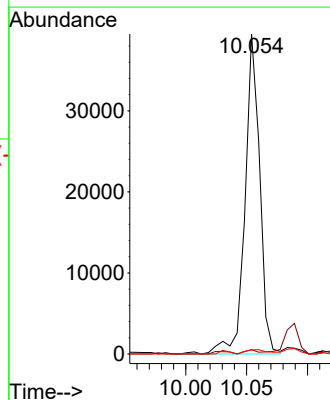
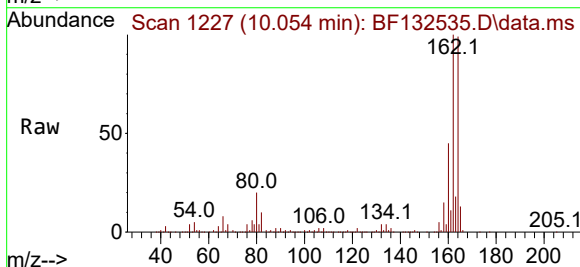
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

Tgt Ion:172 Resp: 733965  
Ion Ratio Lower Upper  
172 100  
171 34.4 28.8 43.2  
170 23.8 19.7 29.5

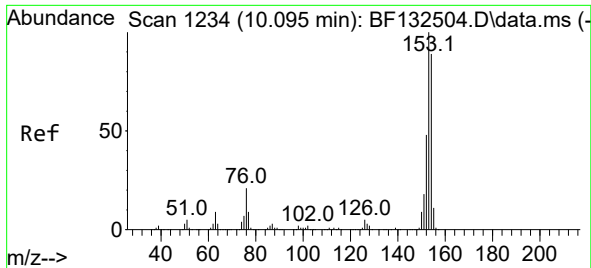


#51  
2,6-Dinitrotoluene  
Concen: 8.295 ng  
RT: 10.054 min Scan# 1227  
Delta R.T. 0.212 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:165 Resp: 33297  
Ion Ratio Lower Upper  
165 100  
63 1.4 47.3 70.9#  
89 1.3 48.9 73.3#



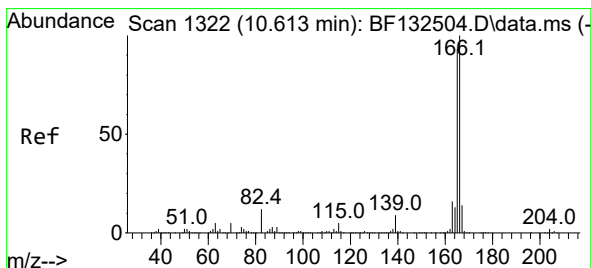
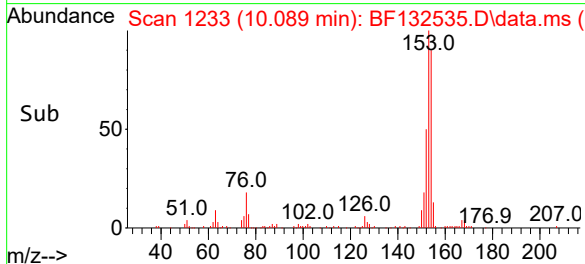
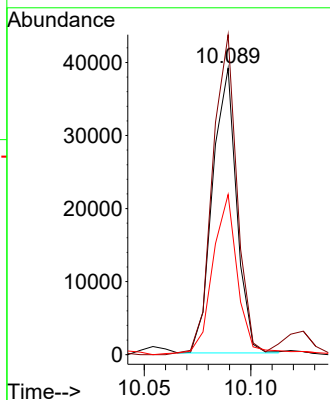
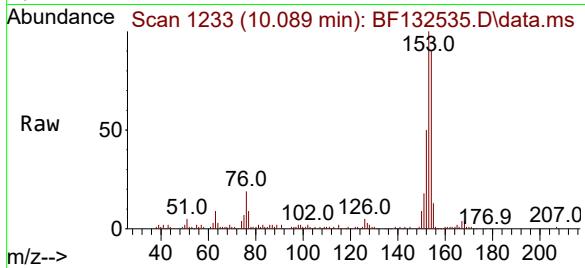




#52  
Acenaphthene  
Concen: 2.083 ng  
RT: 10.089 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

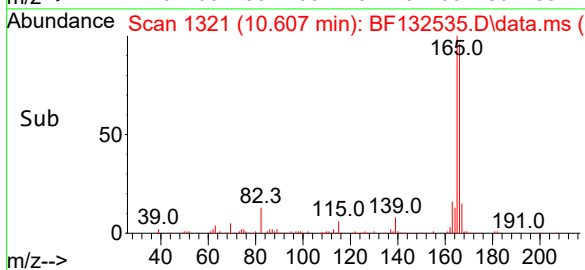
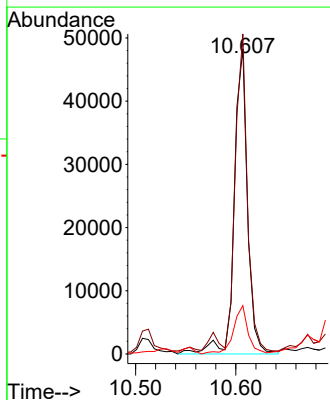
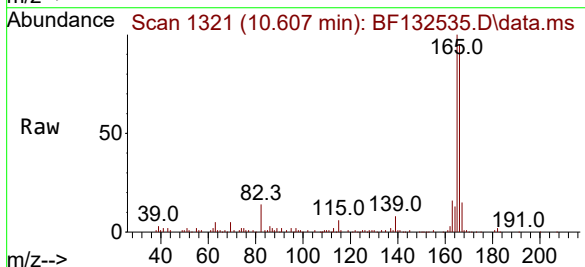
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

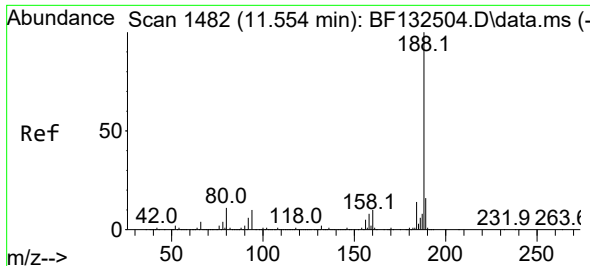
Tgt Ion:154 Resp: 30578  
Ion Ratio Lower Upper  
154 100  
153 111.6 89.8 134.8  
152 55.9 43.3 64.9



#58  
Fluorene  
Concen: 2.731 ng  
RT: 10.607 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:166 Resp: 44705  
Ion Ratio Lower Upper  
166 100  
165 104.9 74.2 111.4  
167 15.8 11.1 16.7

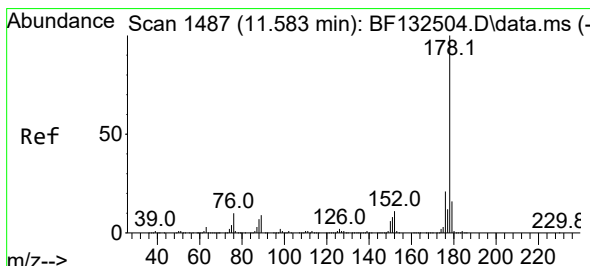
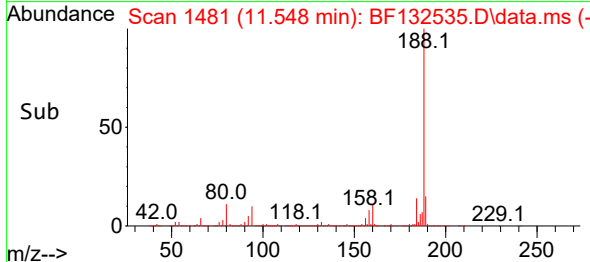
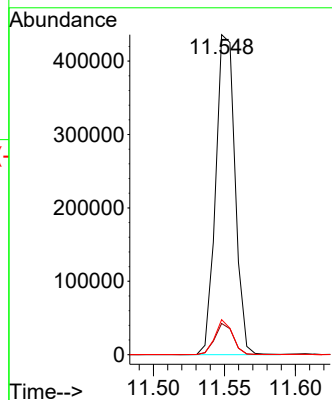
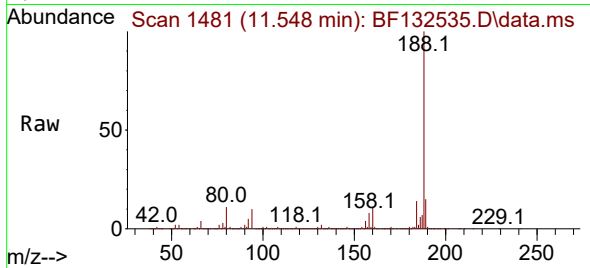




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.548 min Scan# 1481  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

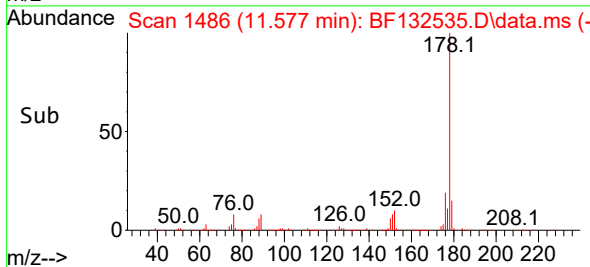
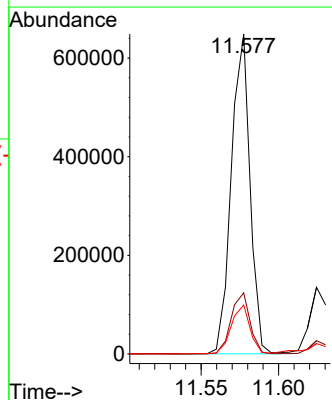
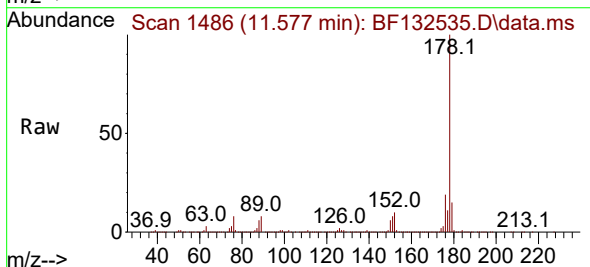
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

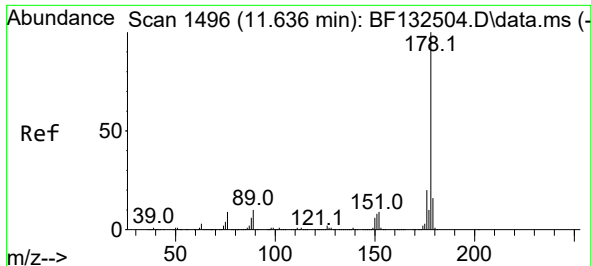
Tgt Ion:188 Resp: 412560  
Ion Ratio Lower Upper  
188 100  
94 9.8 8.3 12.5  
80 11.0 8.7 13.1



#71  
Phenanthrene  
Concen: 25.455 ng  
RT: 11.577 min Scan# 1486  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:178 Resp: 544050  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.5 24.7  
179 15.3 13.0 19.6

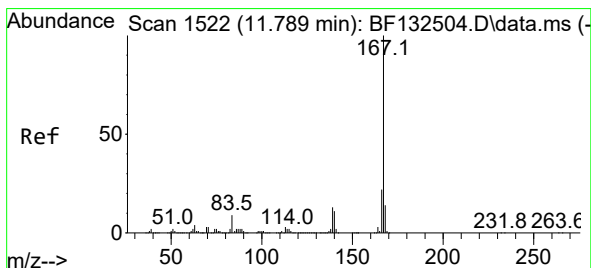
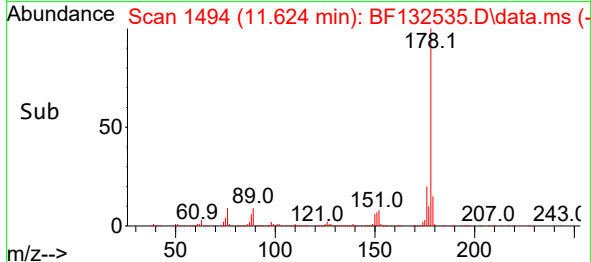
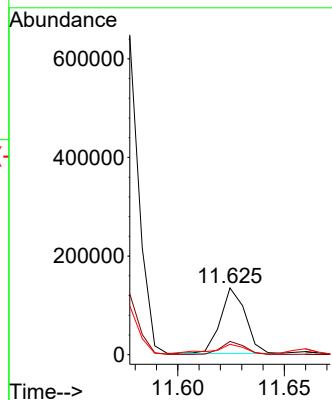
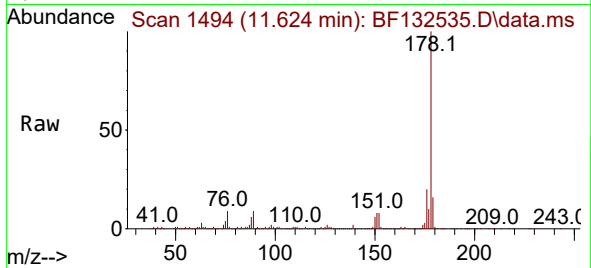




#72  
 Anthracene  
 Concen: 4.933 ng  
 RT: 11.624 min Scan# 1496  
 Delta R.T. -0.012 min  
 Lab File: BF132535.D  
 Acq: 23 Feb 2023 23:04

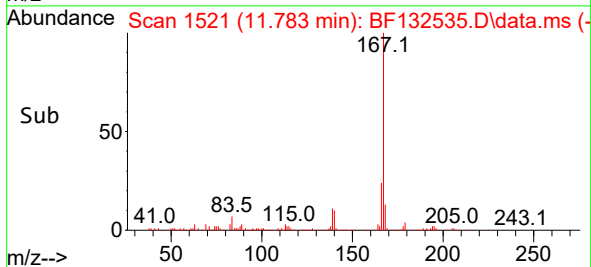
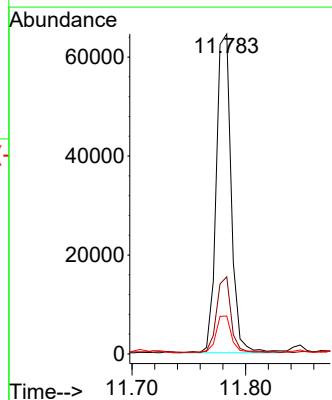
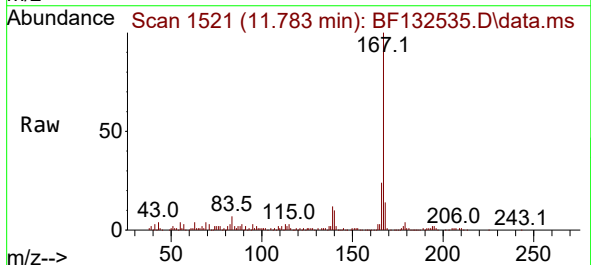
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-02212023DL

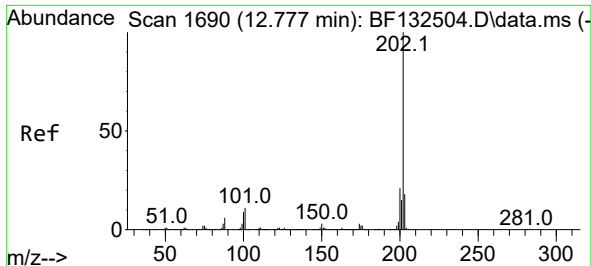
Tgt Ion:178 Resp: 108560  
 Ion Ratio Lower Upper  
 178 100  
 176 20.0 15.6 23.4  
 179 15.6 12.5 18.7



#73  
 Carbazole  
 Concen: 2.982 ng  
 RT: 11.783 min Scan# 1521  
 Delta R.T. -0.006 min  
 Lab File: BF132535.D  
 Acq: 23 Feb 2023 23:04

Tgt Ion:167 Resp: 59177  
 Ion Ratio Lower Upper  
 167 100  
 166 24.1 17.7 26.5  
 139 11.9 10.5 15.7

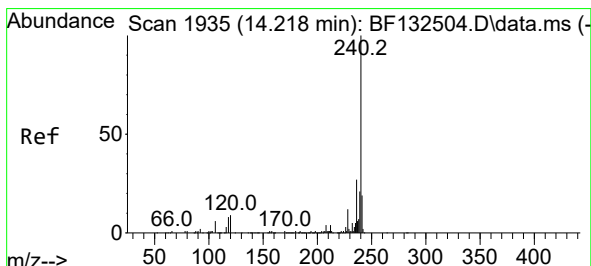
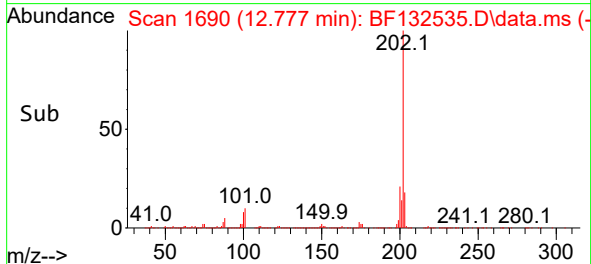
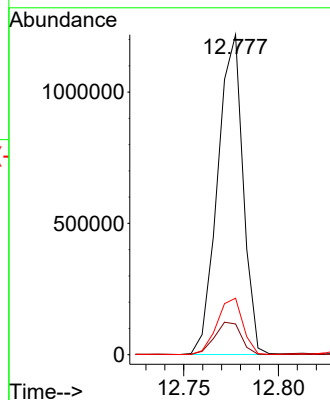
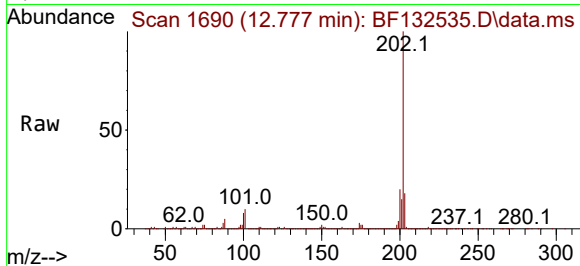




#75  
Fluoranthene  
Concen: 48.693 ng  
RT: 12.777 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

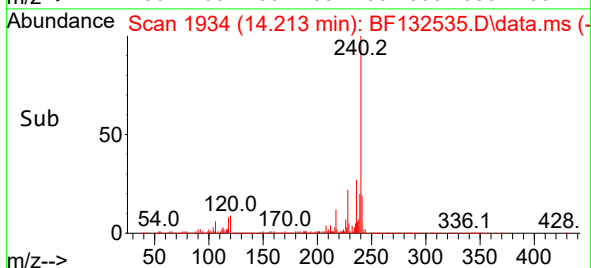
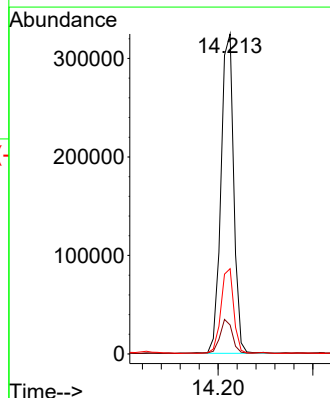
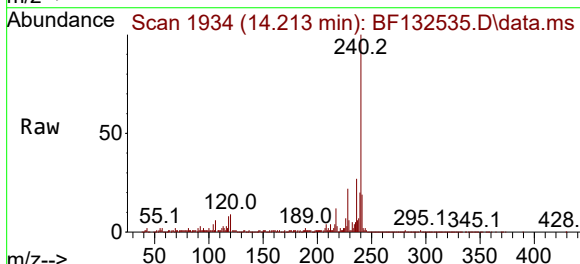
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-02212023DL

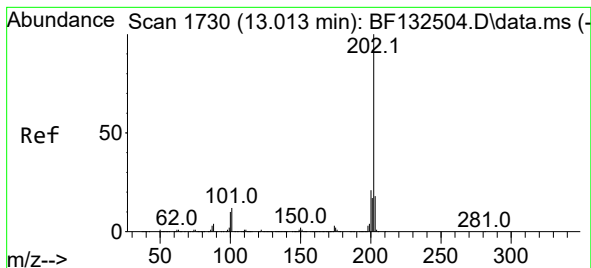
Tgt Ion:202 Resp: 1137704  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 31.4  
203 17.6 0.0 38.0



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.213 min Scan# 1934  
Delta R.T. -0.006 min  
Lab File: BF132535.D  
Acq: 23 Feb 2023 23:04

Tgt Ion:240 Resp: 304296  
Ion Ratio Lower Upper  
240 100  
120 9.0 7.2 10.8  
236 26.7 21.8 32.6





#78

Pyrene

Concen: 37.190 ng

RT: 13.007 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA\_F

ClientSampleId :

TR-05-02212023DL

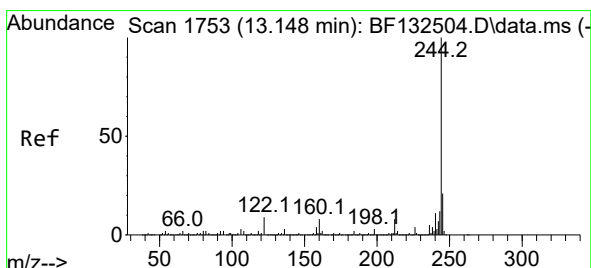
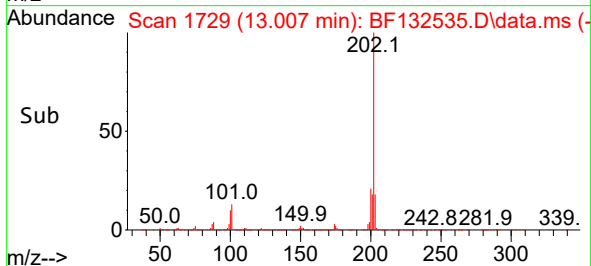
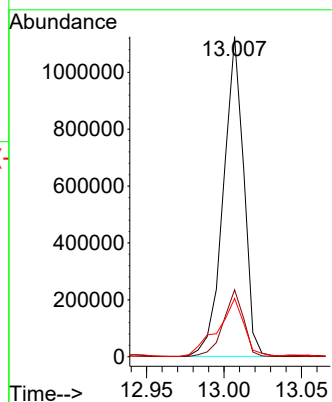
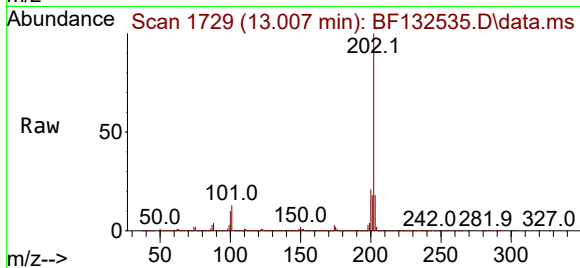
Tgt Ion:202 Resp: 1028881

Ion Ratio Lower Upper

202 100

200 20.9 17.1 25.7

203 18.2 14.6 21.8



#79

Terphenyl-d14

Concen: 41.135 ng

RT: 13.142 min Scan# 1752

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

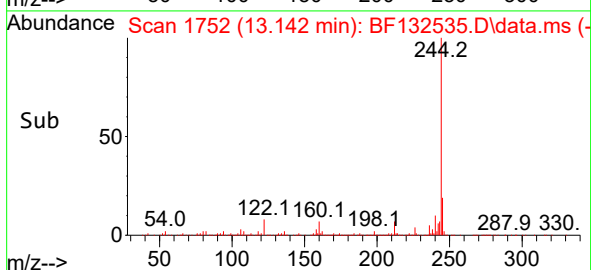
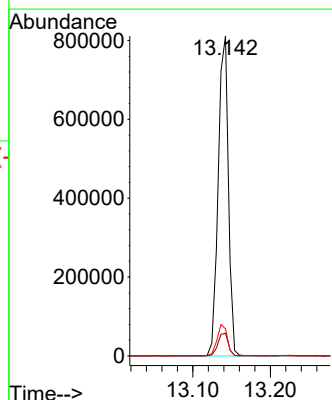
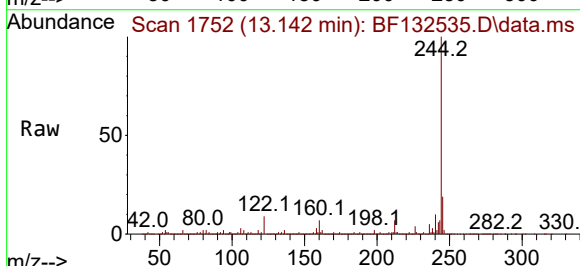
Tgt Ion:244 Resp: 740336

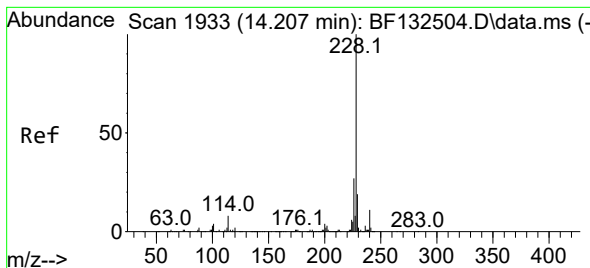
Ion Ratio Lower Upper

244 100

212 7.1 6.5 9.7

122 8.5 7.5 11.3





#81

Benzo(a)anthracene

Concen: 21.805 ng

RT: 14.201 min Scan# 1932

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA\_F

ClientSampleId :

TR-05-02212023DL

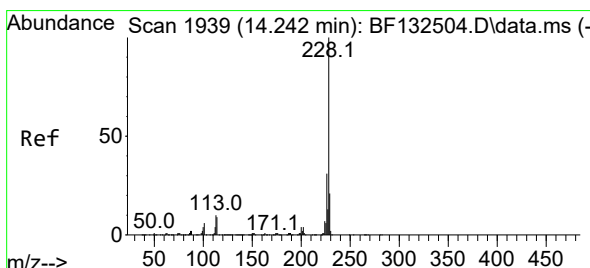
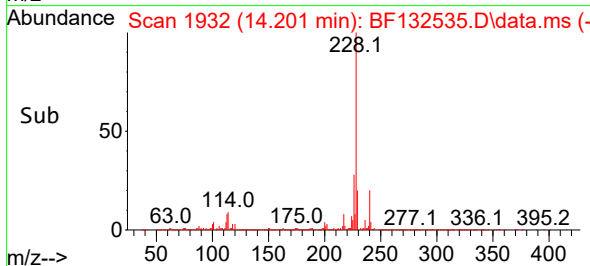
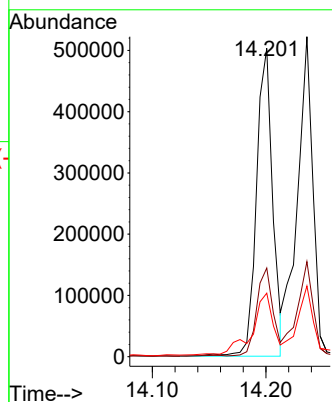
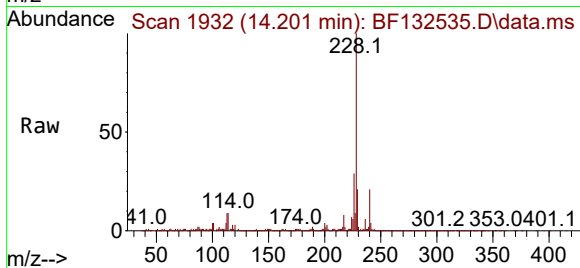
Tgt Ion:228 Resp: 496453

Ion Ratio Lower Upper

228 100

226 28.8 21.7 32.5

229 20.6 15.4 23.2



#83

Chrysene

Concen: 23.443 ng

RT: 14.236 min Scan# 1938

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

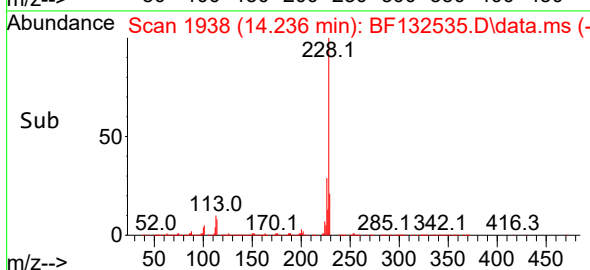
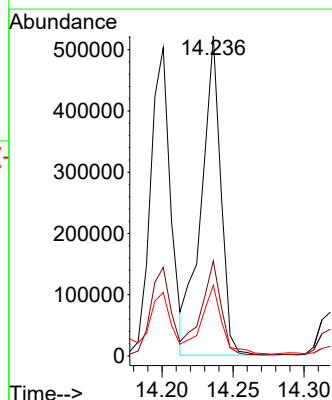
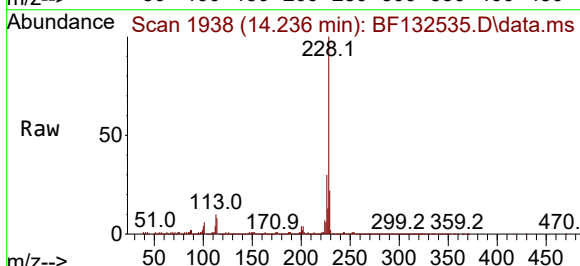
Tgt Ion:228 Resp: 499133

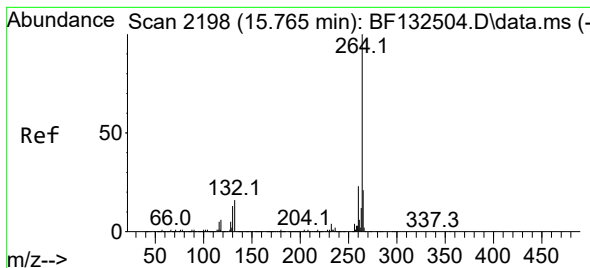
Ion Ratio Lower Upper

228 100

226 29.7 25.0 37.6

229 22.1 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.765 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA\_F

ClientSampleId :

TR-05-02212023DL

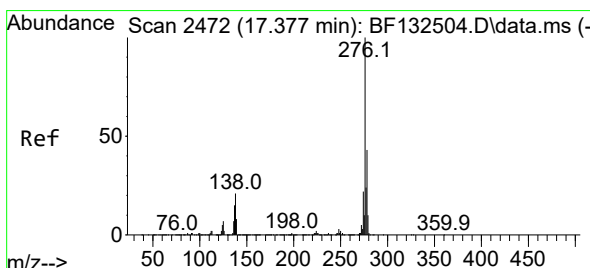
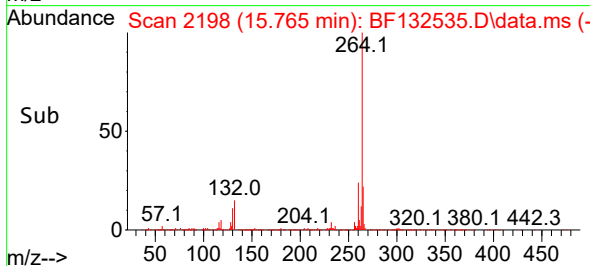
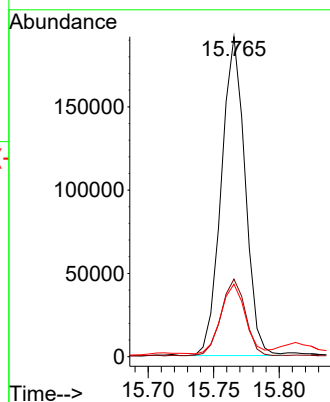
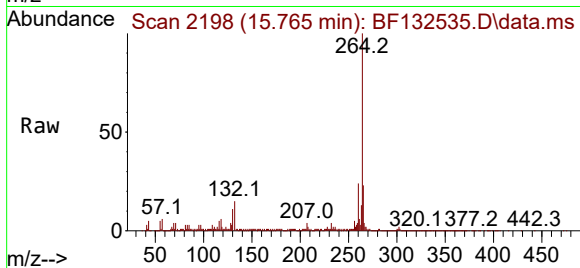
Tgt Ion:264 Resp: 241008

Ion Ratio Lower Upper

264 100

260 24.2 18.8 28.2

265 22.7 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.356 ng

RT: 17.365 min Scan# 2470

Delta R.T. -0.012 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

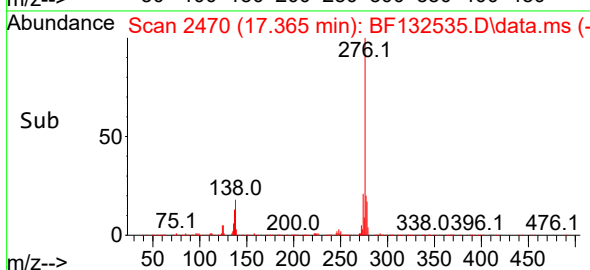
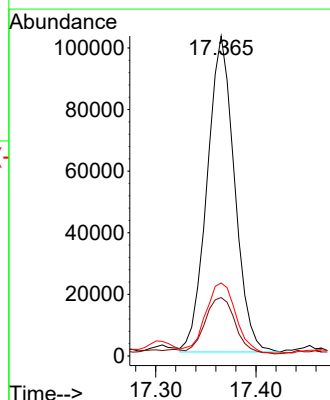
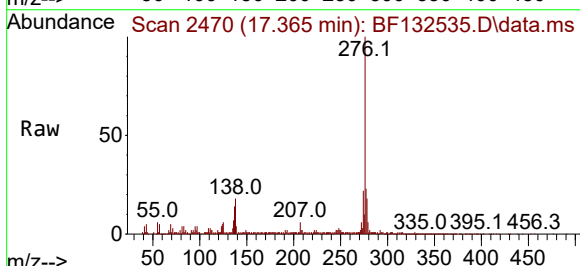
Tgt Ion:276 Resp: 195130

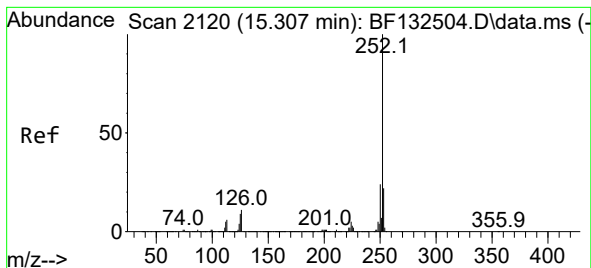
Ion Ratio Lower Upper

276 100

138 19.7 19.0 28.4

277 24.6 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 43.230 ng

RT: 15.301 min Scan# 2119

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA\_F

ClientSampleId :

TR-05-02212023DL

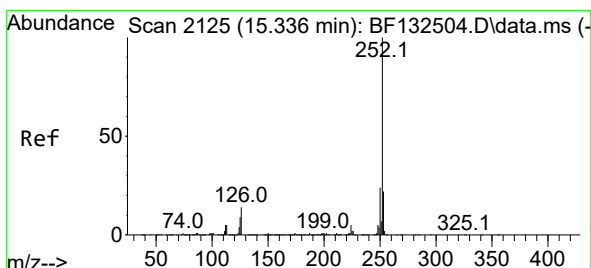
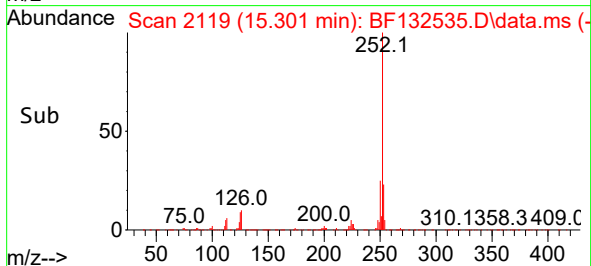
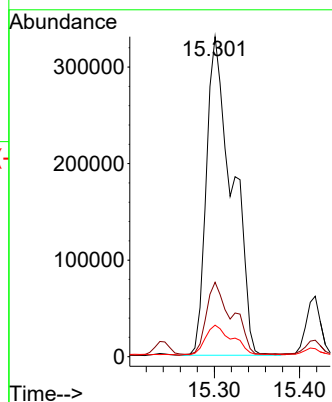
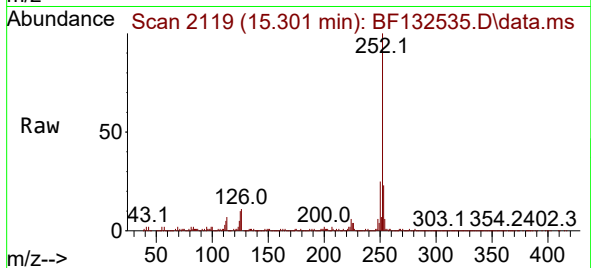
Tgt Ion:252 Resp: 698223

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 9.9 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 44.172 ng

RT: 15.301 min Scan# 2119

Delta R.T. -0.035 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

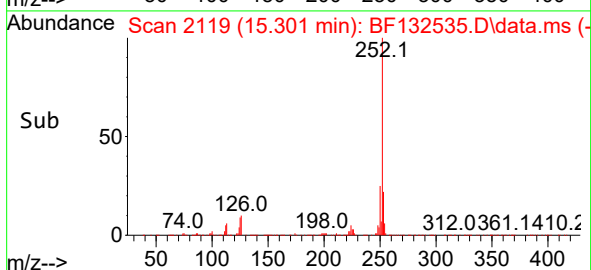
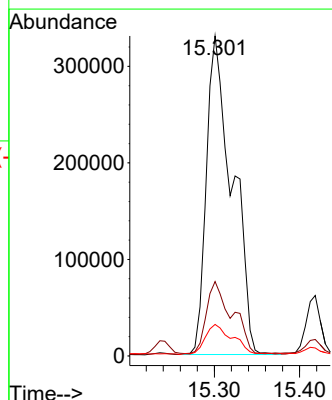
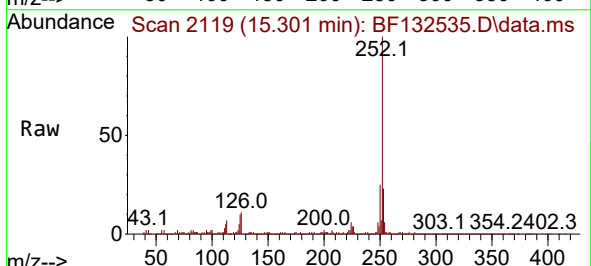
Tgt Ion:252 Resp: 698223

Ion Ratio Lower Upper

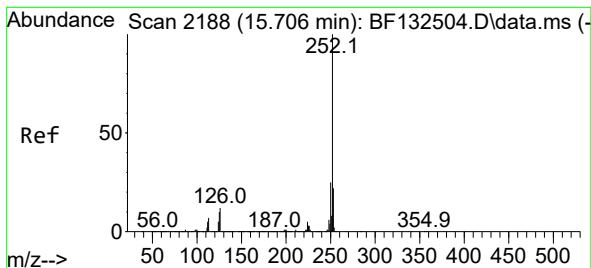
252 100

253 23.2 17.5 26.3

125 9.9 7.2 10.8







#90

Benzo(a)pyrene

Concen: 23.036 ng

RT: 15.701 min Scan# 2188

Delta R.T. -0.006 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Instrument :

BNA\_F

ClientSampleId :

TR-05-02212023DL

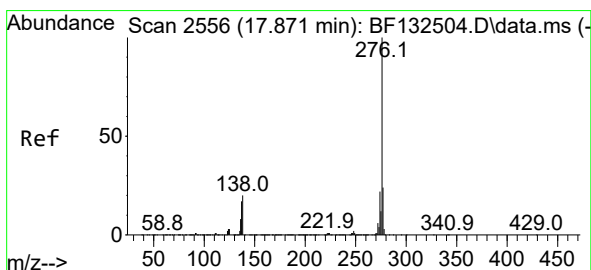
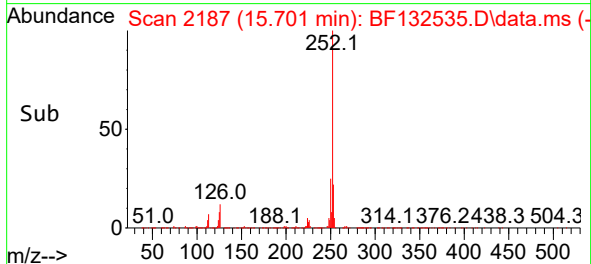
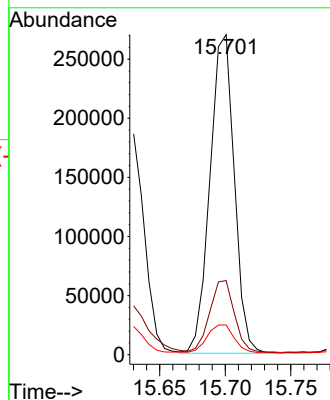
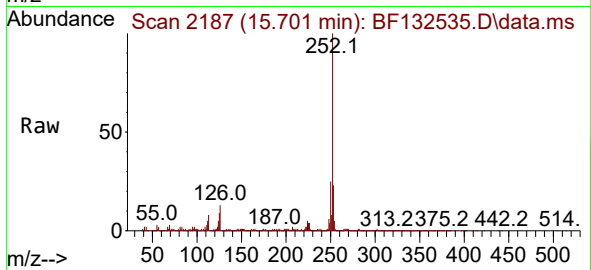
Tgt Ion:252 Resp: 348222

Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

125 9.3 8.0 12.0



#92

Benzo(g,h,i)perylene

Concen: 13.910 ng

RT: 17.854 min Scan# 2553

Delta R.T. -0.017 min

Lab File: BF132535.D

Acq: 23 Feb 2023 23:04

Tgt Ion:276 Resp: 185016

Ion Ratio Lower Upper

276 100

277 25.3 18.9 28.3

138 21.2 16.2 24.4

