

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031423\  
 Data File : BF132792.D  
 Acq On : 14 Mar 2023 22:35  
 Operator : CG\JU  
 Sample : 01905-07  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MAPLE-2

Quant Time: Mar 15 02:30:54 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 14 15:35:42 2023  
 Response via : Initial Calibration

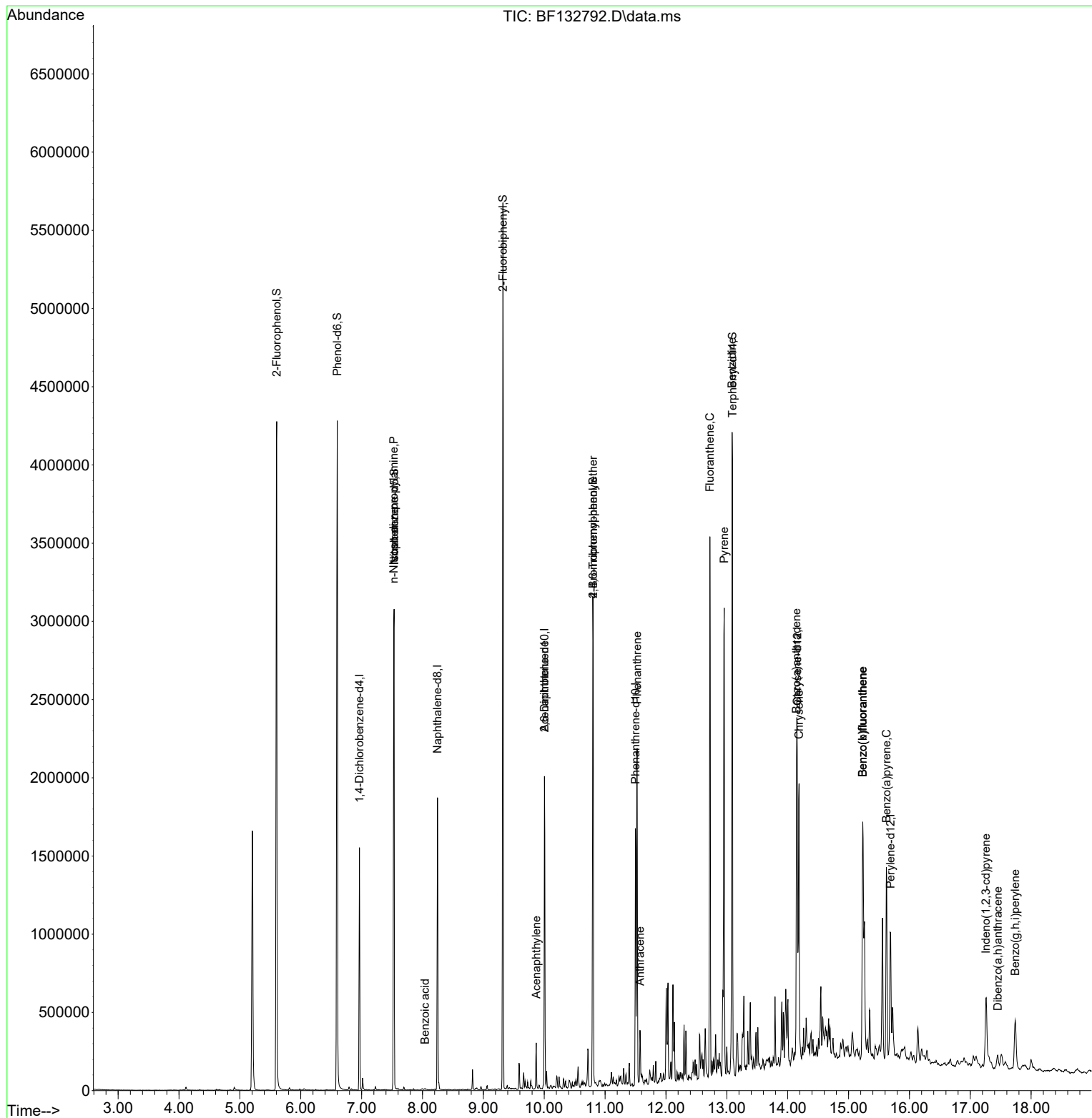
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.963  | 152  | 212705   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.245  | 136  | 776809   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 10.004 | 164  | 390904   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.498 | 188  | 629577   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.157 | 240  | 404845   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12              | 15.692 | 264  | 407596   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.604  | 112  | 1376947  | 105.063 | ng    | 0.01     |
| 7) Phenol-d6                  | 6.598  | 99   | 1750190  | 102.324 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.534  | 82   | 1145050  | 69.935  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.804 | 330  | 404981   | 95.931  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.322  | 172  | 1794131  | 69.886  | ng    | 0.00     |
| 79) Terphenyl-d14             | 13.092 | 244  | 1560342  | 65.164  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.528  | 70   | 148540   | 14.111  | ng    | # 73     |
| 25) Isophorone                | 7.534  | 82   | 1145036  | 36.477  | ng    | # 67     |
| 32) Benzoic acid              | 8.040  | 122  | 820      | 3.915   | ng    | # 59     |
| 49) Acenaphthylene            | 9.869  | 152  | 112834   | 3.022   | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 10.004 | 165  | 52568    | 8.110   | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether | 10.804 | 248  | 27222    | 3.823   | ng    | # 1      |
| 71) Phenanthrene              | 11.528 | 178  | 825029   | 25.296  | ng    | 98       |
| 72) Anthracene                | 11.575 | 178  | 129018   | 3.841   | ng    | 97       |
| 75) Fluoranthene              | 12.722 | 202  | 1417608  | 39.759  | ng    | 98       |
| 77) Benzidine                 | 13.086 | 184  | 20773    | 2.108   | ng    | # 94     |
| 78) Pyrene                    | 12.957 | 202  | 1310301  | 35.599  | ng    | 100      |
| 81) Benzo(a)anthracene        | 14.145 | 228  | 764181   | 25.228  | ng    | 96       |
| 83) Chrysene                  | 14.186 | 228  | 729737   | 25.762  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.257 | 276  | 316510   | 11.851  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.233 | 252  | 1246822  | 45.646  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.233 | 252  | 1246822  | 46.640  | ng    | 98       |
| 90) Benzo(a)pyrene            | 15.621 | 252  | 605405   | 23.681  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.451 | 278  | 59103    | 2.716   | ng    | 95       |
| 92) Benzo(g,h,i)perylene      | 17.739 | 276  | 276194   | 12.468  | ng    | 100      |
| -----                         |        |      |          |         |       |          |

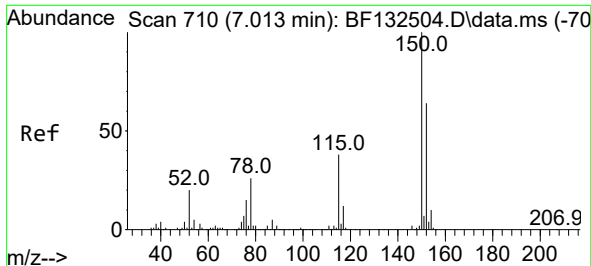
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 14 15:35:42 2023  
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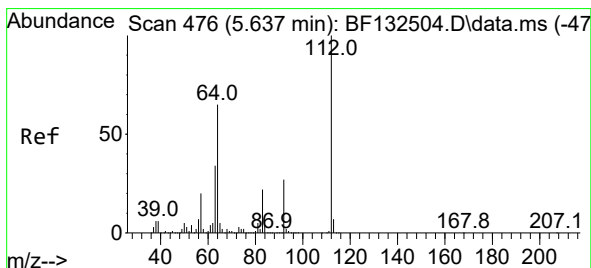
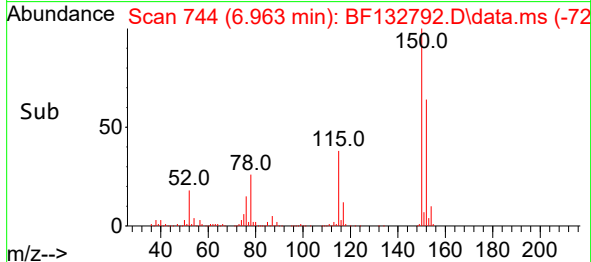
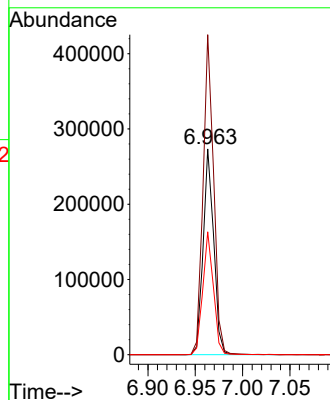
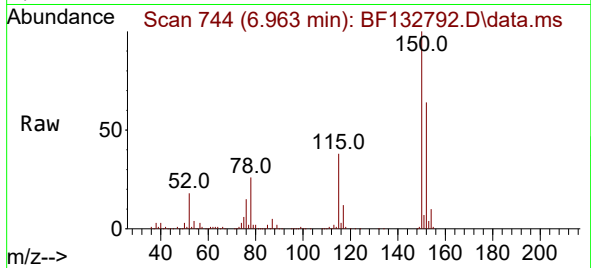




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.963 min Scan# 710  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

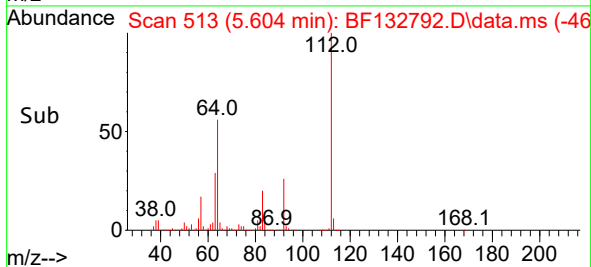
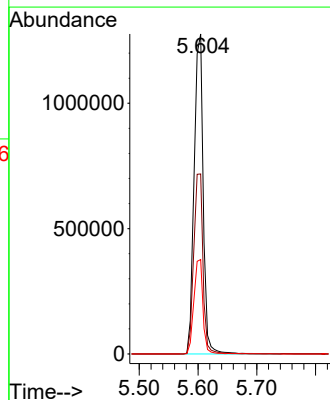
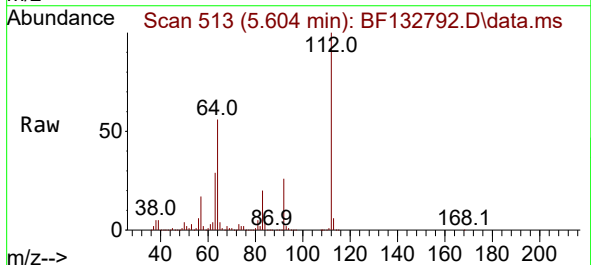
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

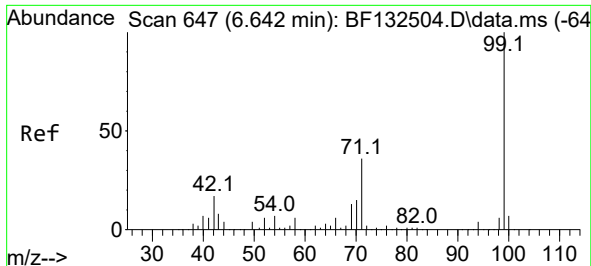
Tgt Ion:152 Resp: 212705  
Ion Ratio Lower Upper  
152 100  
150 155.5 125.4 188.2  
115 59.7 47.8 71.6



#5  
2-Fluorophenol  
Concen: 105.063 ng  
RT: 5.604 min Scan# 513  
Delta R.T. 0.012 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:112 Resp: 1376947  
Ion Ratio Lower Upper  
112 100  
64 56.3 51.6 77.4  
63 29.5 27.4 41.2

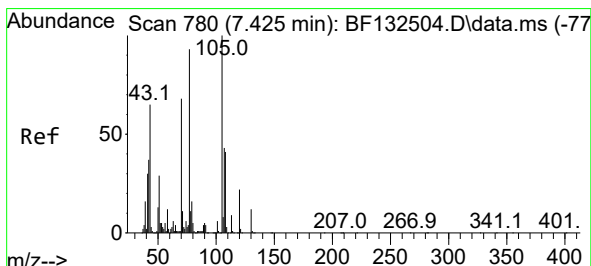
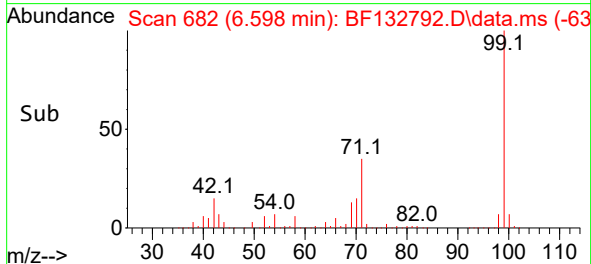
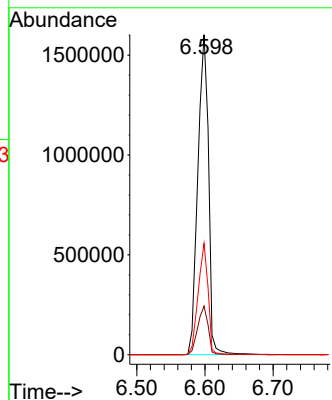
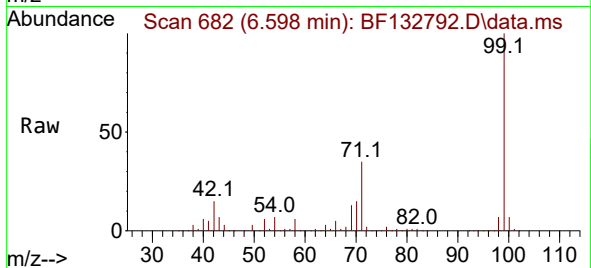




#7  
Phenol-d6  
Concen: 102.324 ng  
RT: 6.598 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

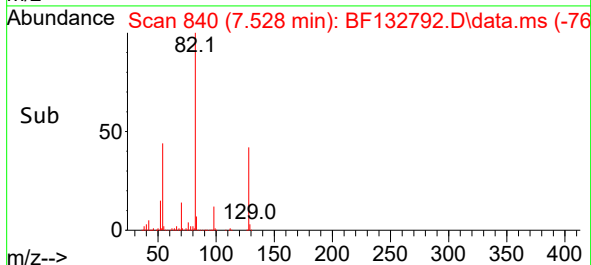
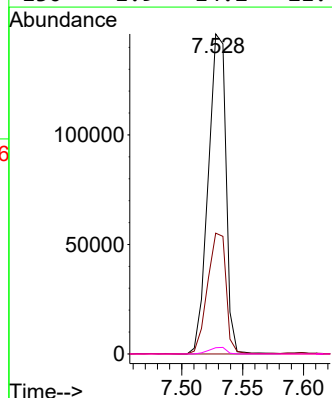
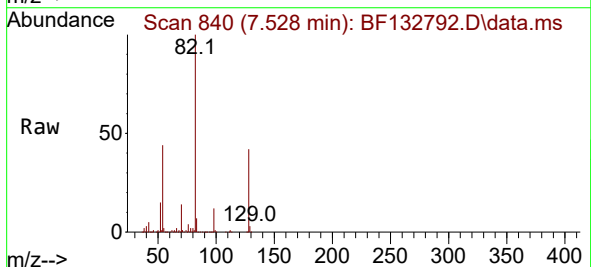
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

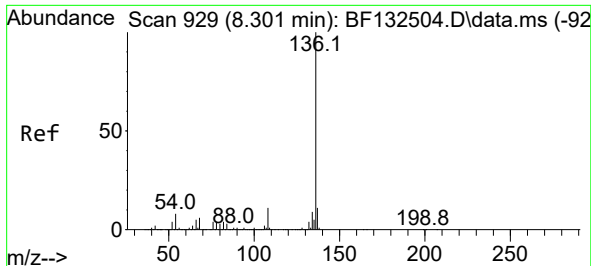
Tgt Ion: 99 Resp: 1750190  
Ion Ratio Lower Upper  
99 100  
42 15.2 13.9 20.9  
71 34.8 28.5 42.7



#19  
n-Nitroso-di-n-propylamine  
Concen: 14.111 ng  
RT: 7.528 min Scan# 840  
Delta R.T. 0.147 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion: 70 Resp: 148540  
Ion Ratio Lower Upper  
70 100  
42 37.8 44.1 66.1#  
101 0.0 7.4 11.2#  
130 1.9 14.2 21.4#

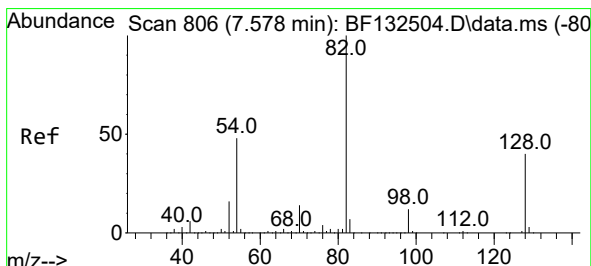
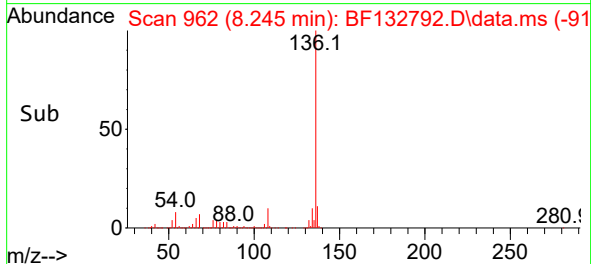
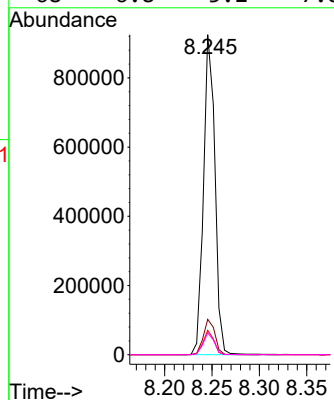
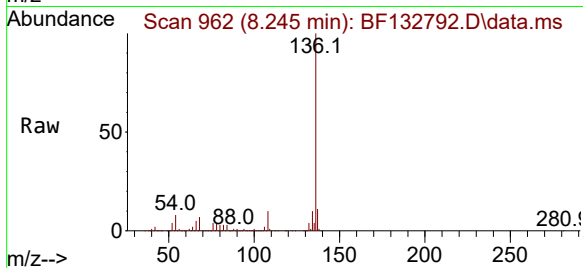




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.245 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

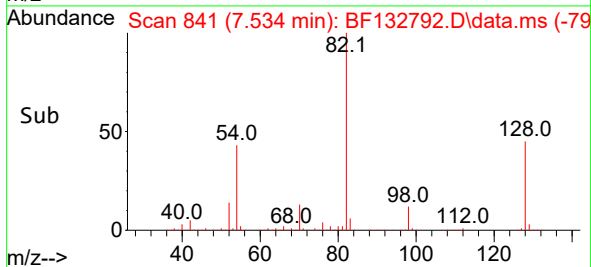
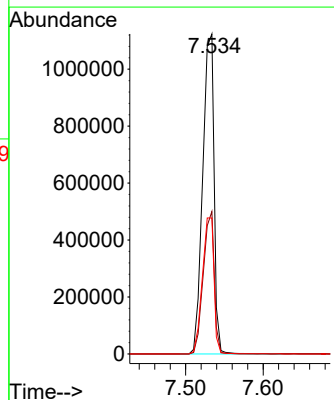
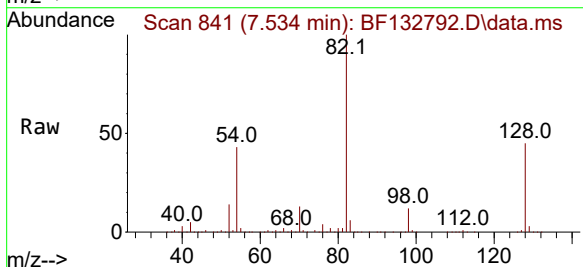
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

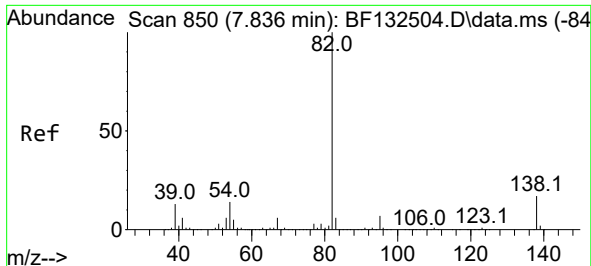
Tgt Ion:136 Resp: 776809  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 7.6 6.2 9.4  
68 6.8 5.2 7.8



#23  
Nitrobenzene-d5  
Concen: 69.935 ng  
RT: 7.534 min Scan# 841  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion: 82 Resp: 1145050  
Ion Ratio Lower Upper  
82 100  
128 44.5 32.2 48.2  
54 42.5 38.4 57.6

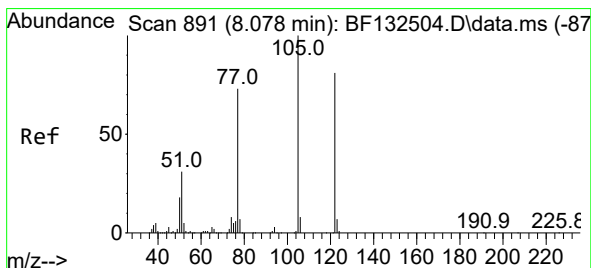
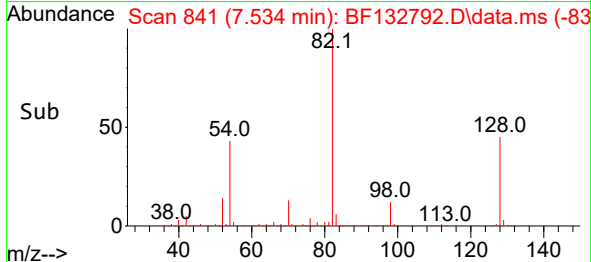
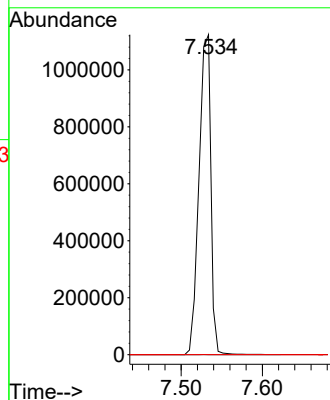
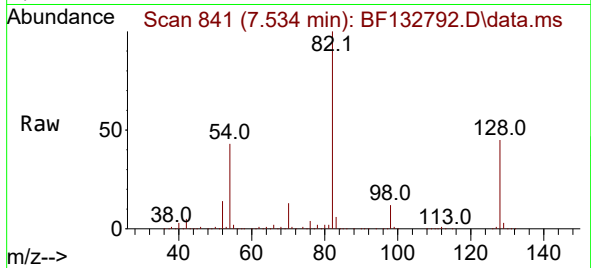




#25  
Isophorone  
Concen: 36.477 ng  
RT: 7.534 min Scan# 84  
Delta R.T. -0.259 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

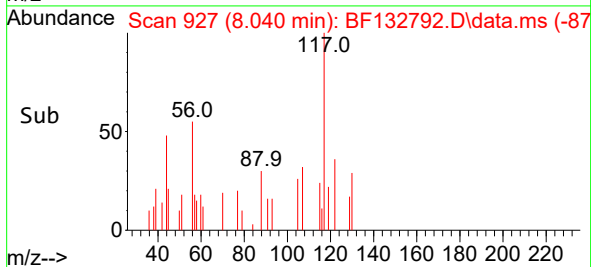
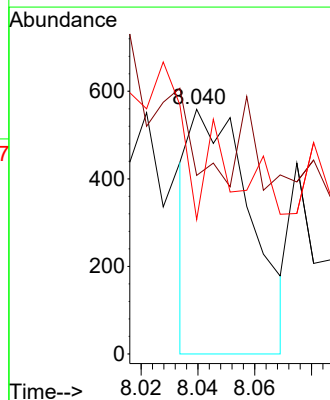
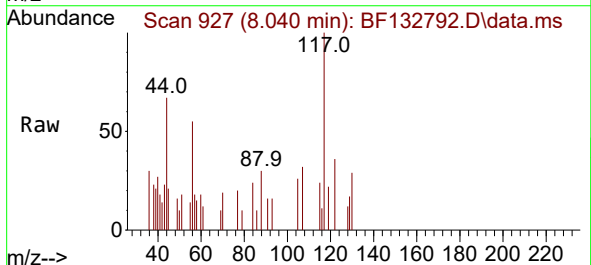
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

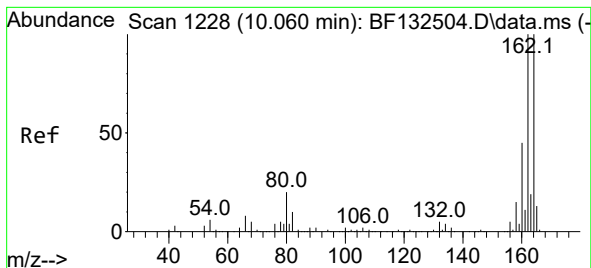
Tgt Ion: 82 Resp: 1145036  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.3 19.9#



#32  
Benzoic acid  
Concen: 3.915 ng  
RT: 8.040 min Scan# 927  
Delta R.T. 0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion: 122 Resp: 820  
Ion Ratio Lower Upper  
122 100  
105 73.0 102.6 142.6#  
77 54.9 70.2 110.2#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.004 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

Instrument :

BNA\_F

ClientSampleId :

MAPLE-2

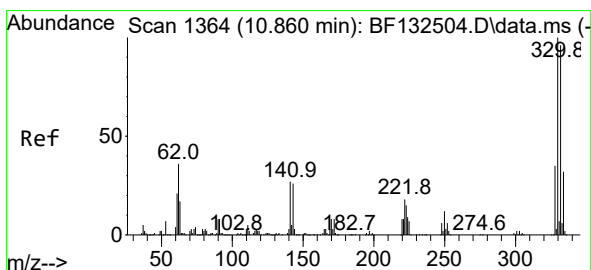
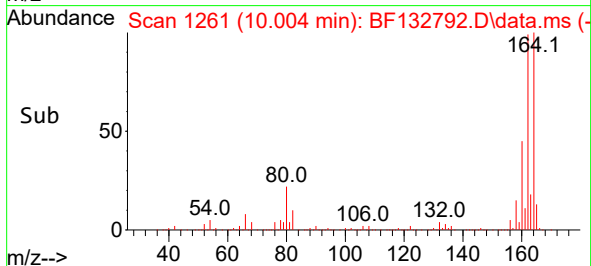
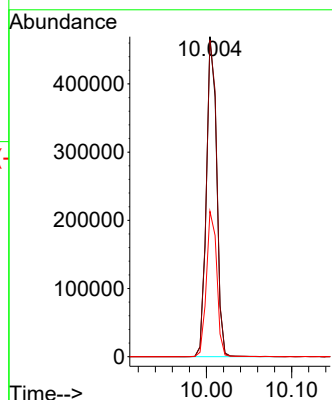
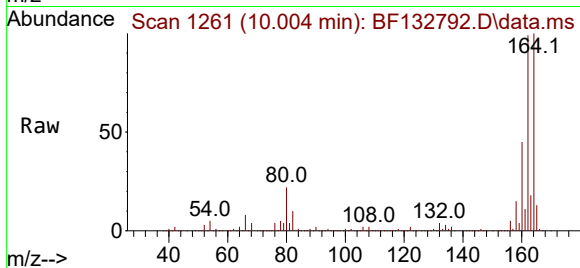
Tgt Ion:164 Resp: 390904

Ion Ratio Lower Upper

164 100

162 99.0 79.8 119.8

160 45.4 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 95.931 ng

RT: 10.804 min Scan# 1397

Delta R.T. -0.006 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

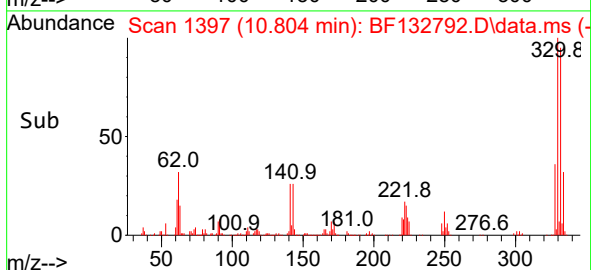
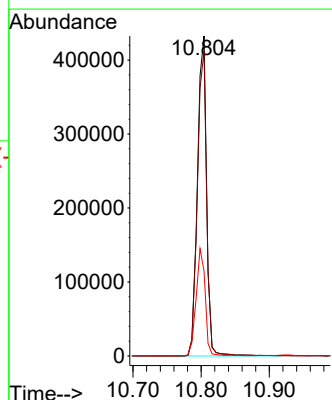
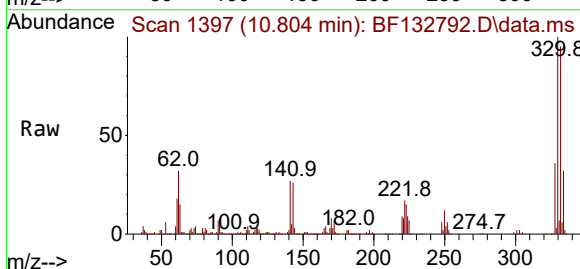
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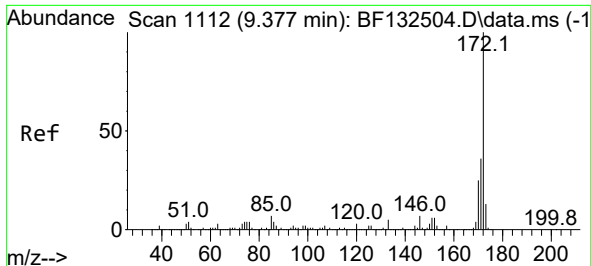
Ion Ratio Lower Upper

330 100

332 96.0 76.2 114.4

141 33.5 28.4 42.6

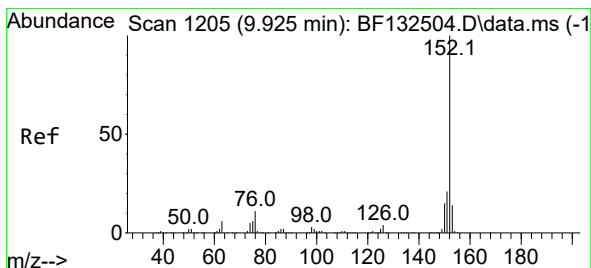
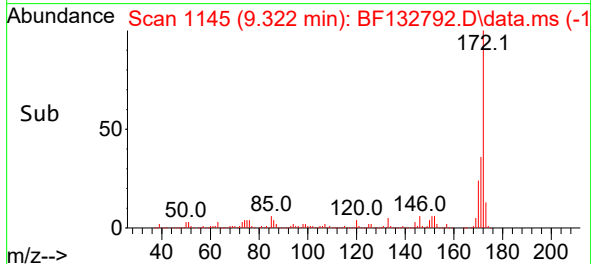
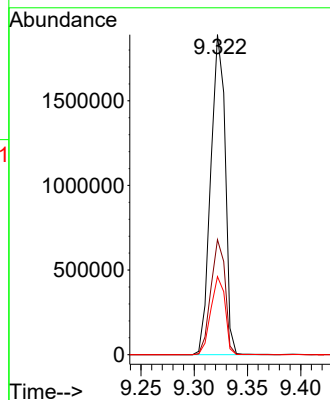
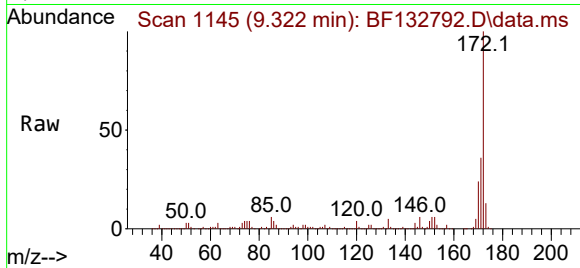




#45  
2-Fluorobiphenyl  
Concen: 69.886 ng  
RT: 9.322 min Scan# 1112  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

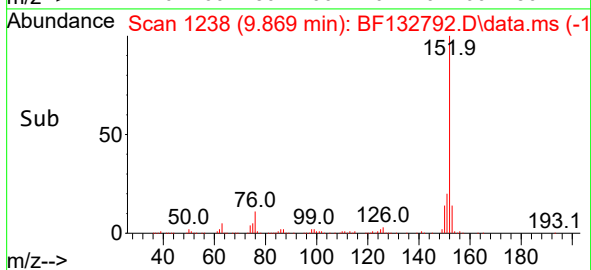
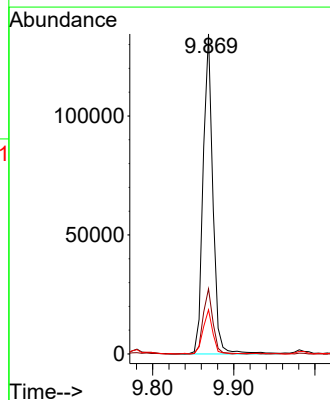
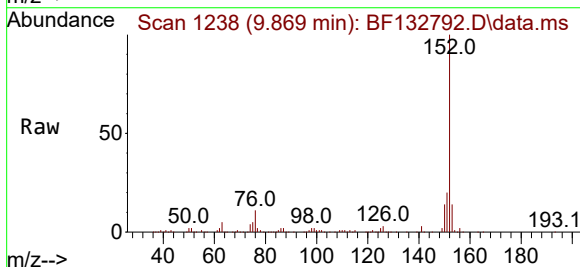
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

Tgt Ion:172 Resp: 1794131  
Ion Ratio Lower Upper  
172 100  
171 36.0 28.8 43.2  
170 24.4 19.7 29.5

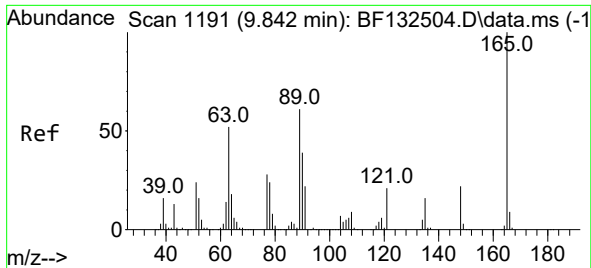


#49  
Acenaphthylene  
Concen: 3.022 ng  
RT: 9.869 min Scan# 1238  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:152 Resp: 112834  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.4 24.6  
153 13.8 11.0 16.6



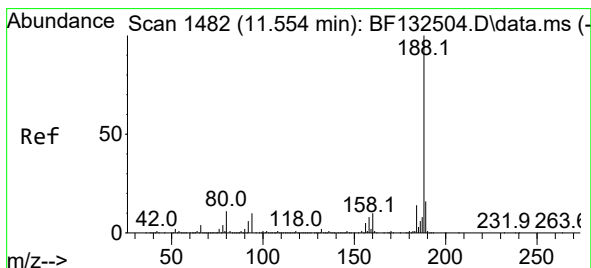
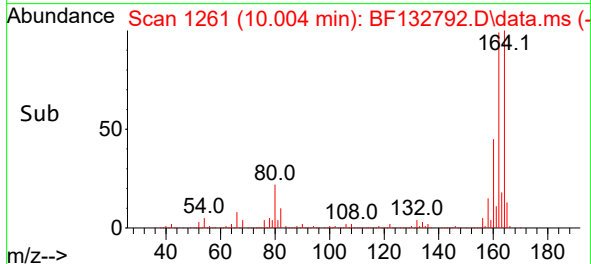
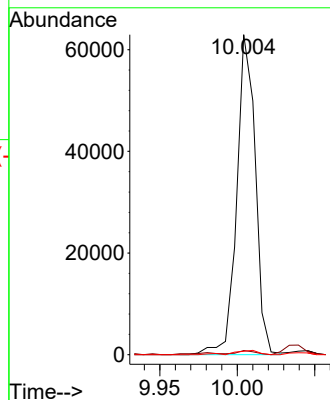
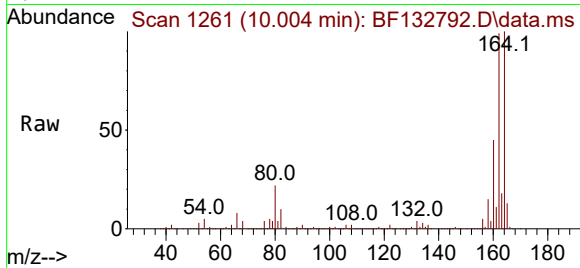




#51  
2,6-Dinitrotoluene  
Concen: 8.110 ng  
RT: 10.004 min Scan# 1191  
Delta R.T. 0.206 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

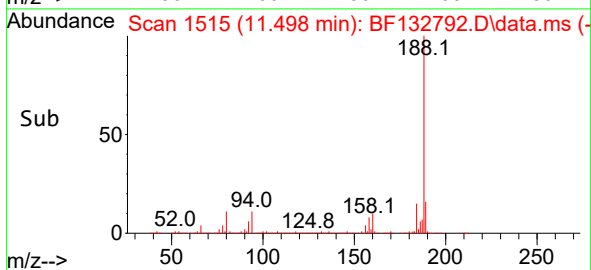
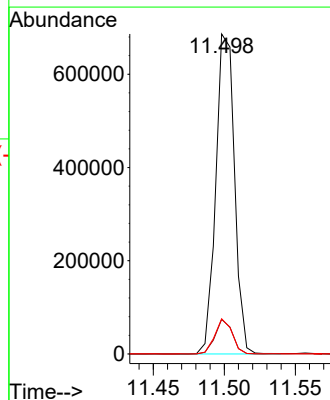
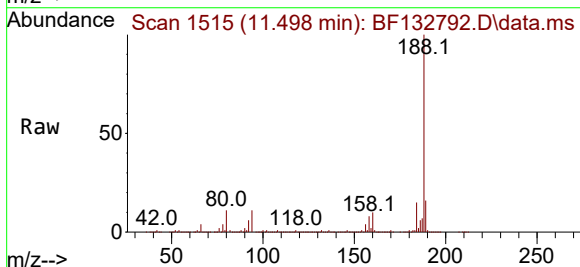
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

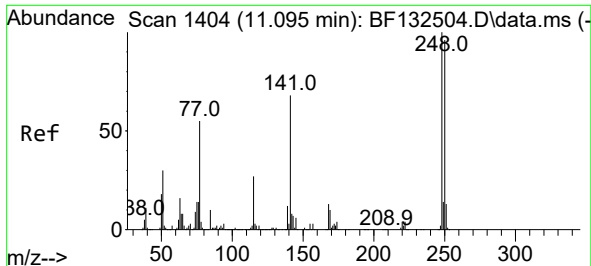
Tgt Ion:165 Resp: 52568  
Ion Ratio Lower Upper  
165 100  
63 1.3 47.3 70.9#  
89 1.0 48.9 73.3#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.498 min Scan# 1515  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:188 Resp: 629577  
Ion Ratio Lower Upper  
188 100  
94 10.8 8.3 12.5  
80 11.0 8.7 13.1

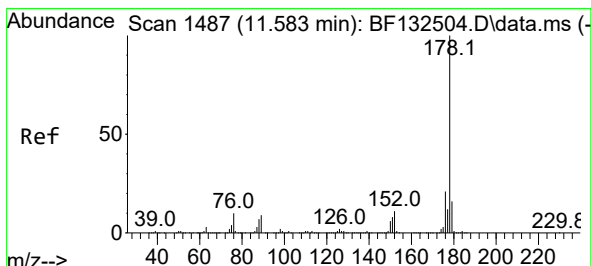
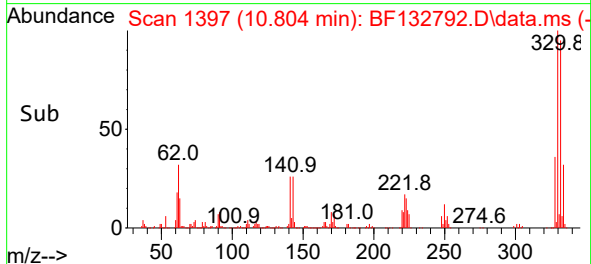
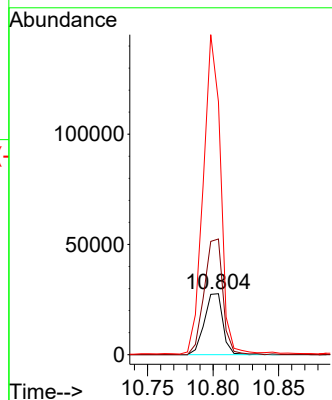
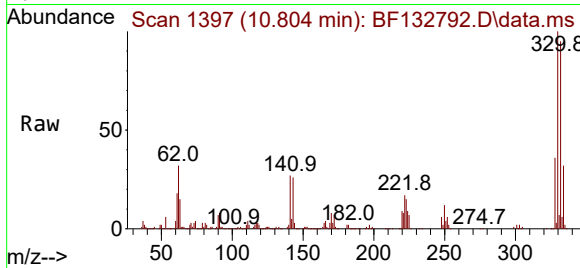




#67  
4-Bromophenyl-phenylether  
Concen: 3.823 ng  
RT: 10.804 min Scan# 11  
Delta R.T. -0.241 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

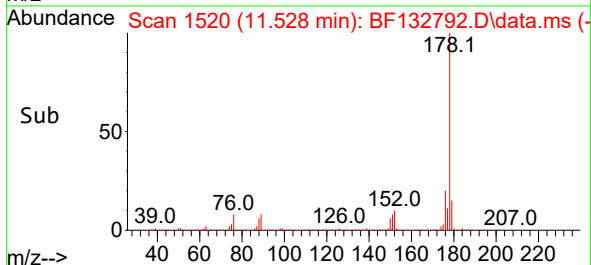
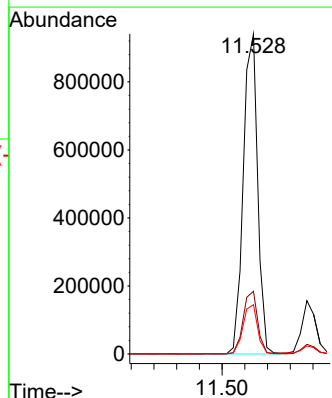
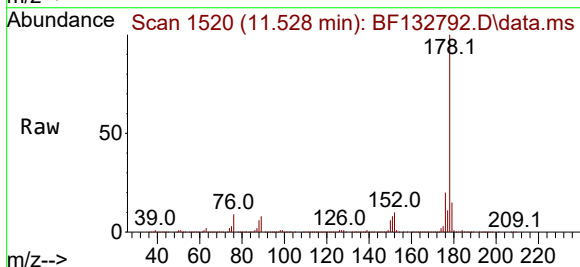
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

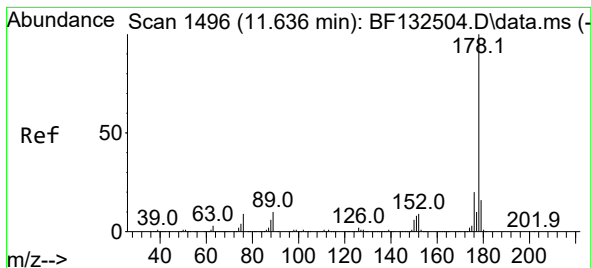
Tgt Ion:248 Resp: 27222  
Ion Ratio Lower Upper  
248 100  
250 190.0 77.0 115.4#  
141 415.3 54.2 81.2#



#71  
Phenanthrene  
Concen: 25.296 ng  
RT: 11.528 min Scan# 1520  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:178 Resp: 825029  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.5 24.7  
179 15.4 13.0 19.6





#72

Anthracene

Concen: 3.841 ng

RT: 11.575 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

Instrument :

BNA\_F

ClientSampleId :

MAPLE-2

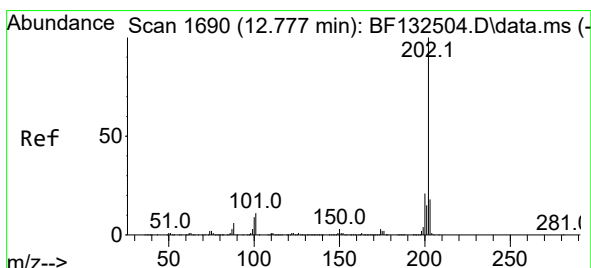
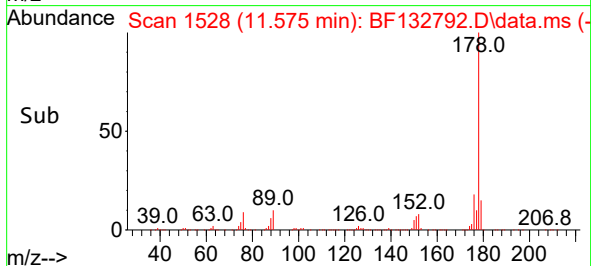
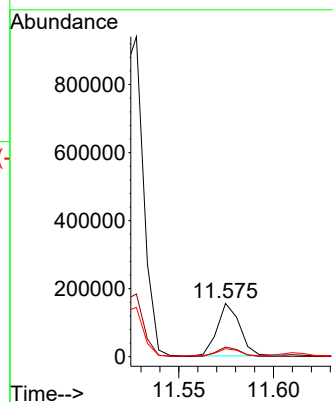
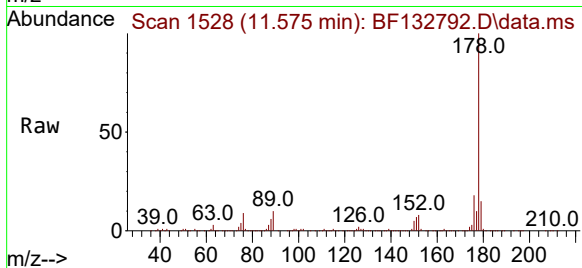
Tgt Ion:178 Resp: 129018

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

179 15.0 12.5 18.7



#75

Fluoranthene

Concen: 39.759 ng

RT: 12.722 min Scan# 1723

Delta R.T. -0.006 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

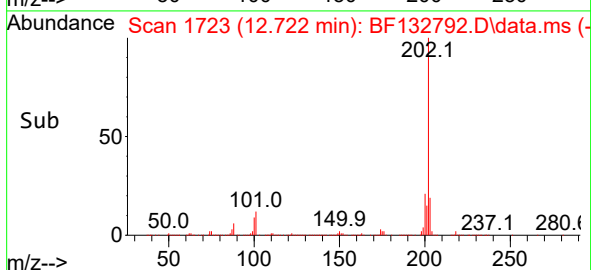
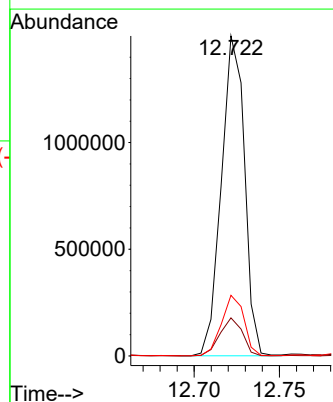
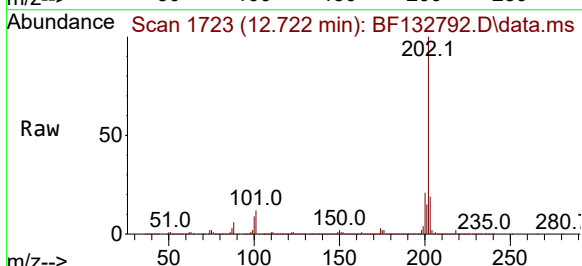
Tgt Ion:202 Resp: 1417608

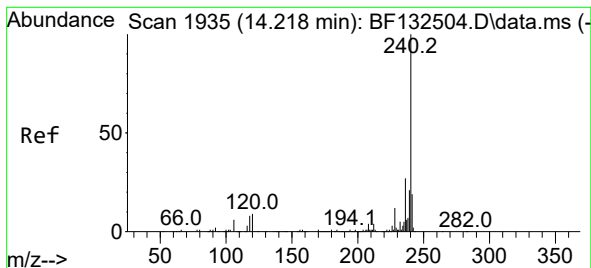
Ion Ratio Lower Upper

202 100

101 11.9 0.0 31.4

203 19.0 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.157 min Scan# 1935

Delta R.T. -0.006 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

Instrument :

BNA\_F

ClientSampleId :

MAPLE-2

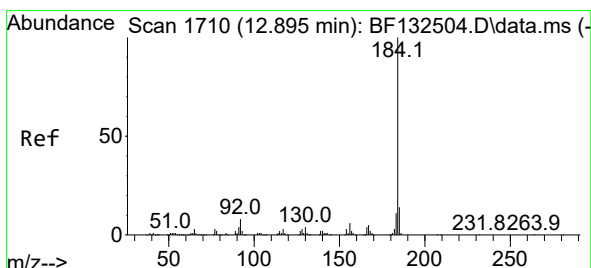
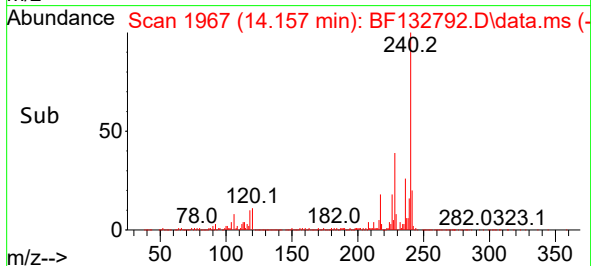
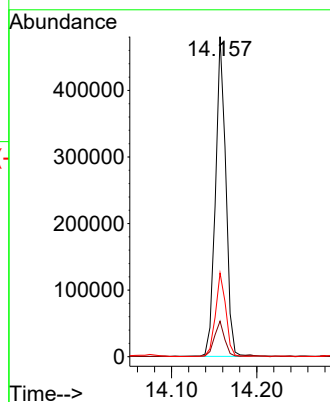
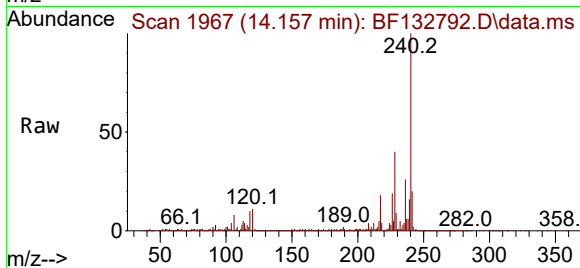
Tgt Ion:240 Resp: 404845

Ion Ratio Lower Upper

240 100

120 11.1 7.2 10.8#

236 26.2 21.8 32.6



#77

Benzidine

Concen: 2.108 ng

RT: 13.086 min Scan# 1785

Delta R.T. 0.241 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

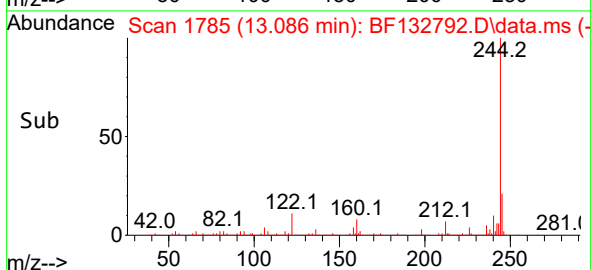
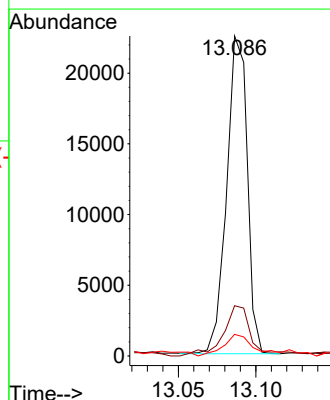
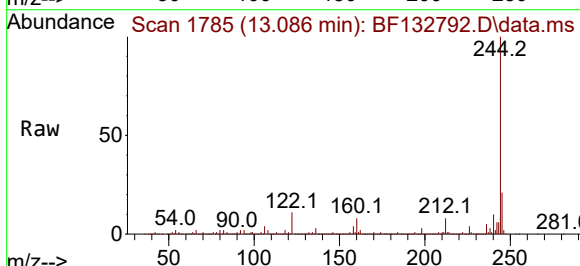
Tgt Ion:184 Resp: 20773

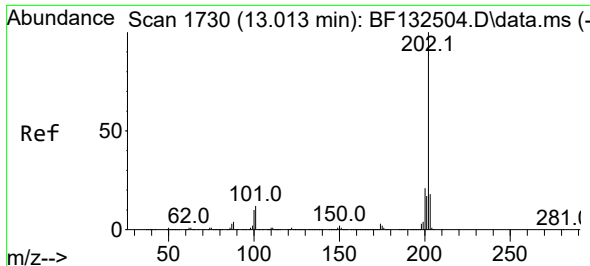
Ion Ratio Lower Upper

184 100

185 15.7 11.7 17.5

183 6.8 8.7 13.1#

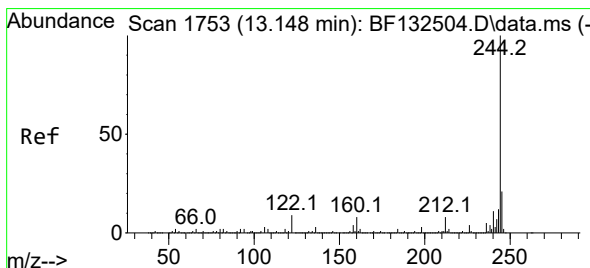
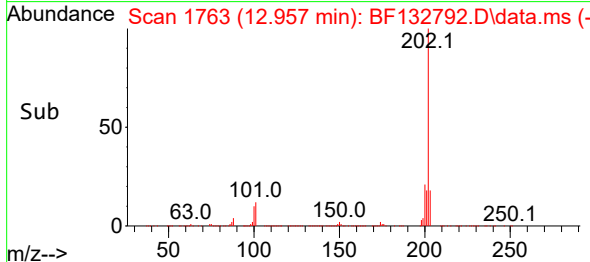
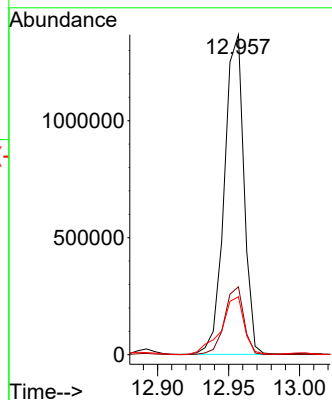
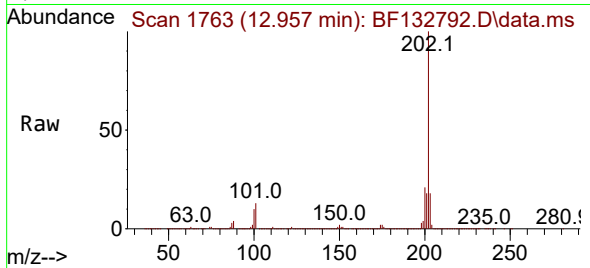




#78  
 Pyrene  
 Concen: 35.599 ng  
 RT: 12.957 min Scan# 1763  
 Delta R.T. 0.000 min  
 Lab File: BF132792.D  
 Acq: 14 Mar 2023 22:35

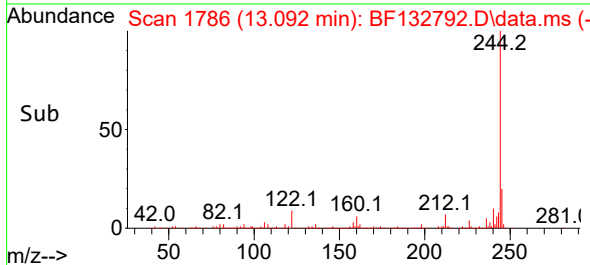
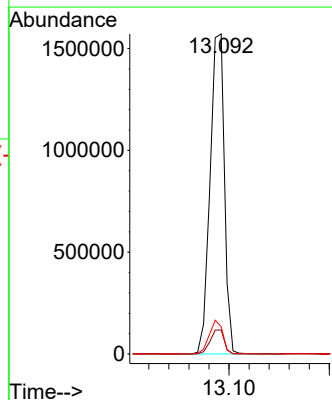
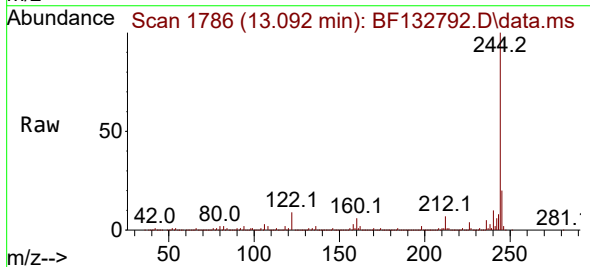
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MAPLE-2

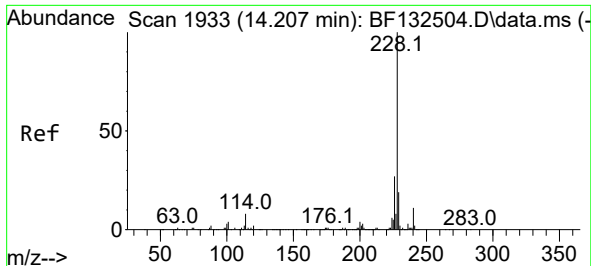
Tgt Ion:202 Resp: 1310301  
 Ion Ratio Lower Upper  
 202 100  
 200 21.2 17.1 25.7  
 203 18.1 14.6 21.8



#79  
 Terphenyl-d14  
 Concen: 65.164 ng  
 RT: 13.092 min Scan# 1786  
 Delta R.T. 0.000 min  
 Lab File: BF132792.D  
 Acq: 14 Mar 2023 22:35

Tgt Ion:244 Resp: 1560342  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.5 9.7  
 122 8.6 7.5 11.3

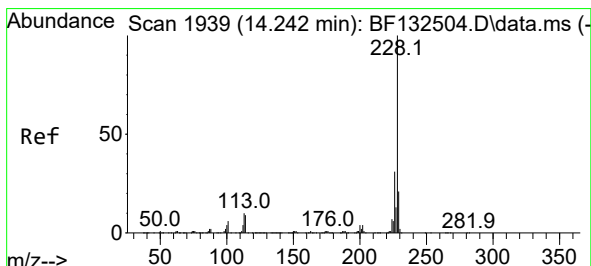
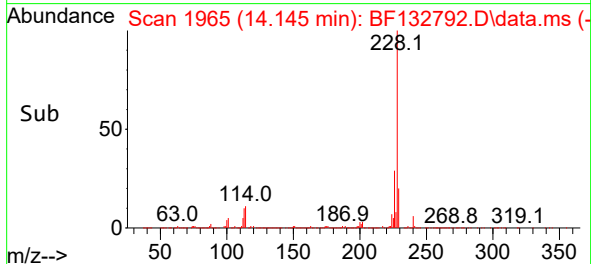
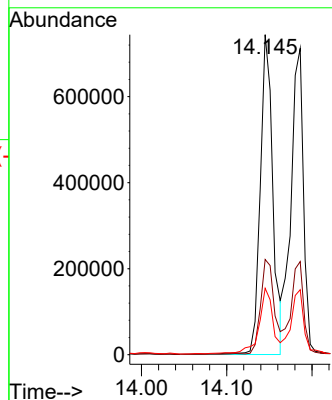
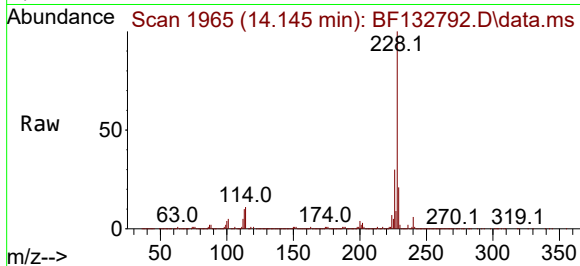




#81  
Benzo(a)anthracene  
Concen: 25.228 ng  
RT: 14.145 min Scan# 1965  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

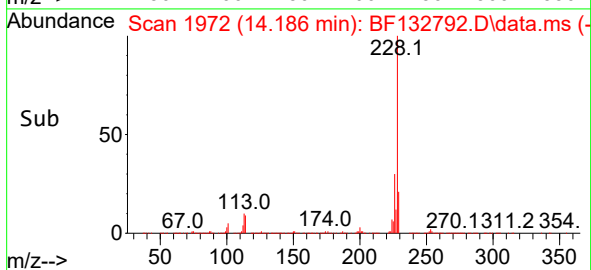
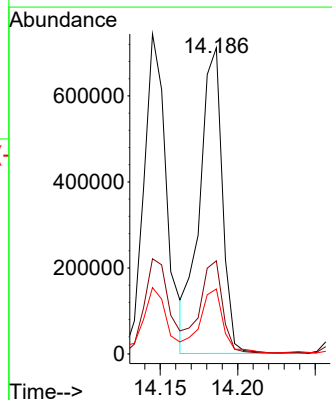
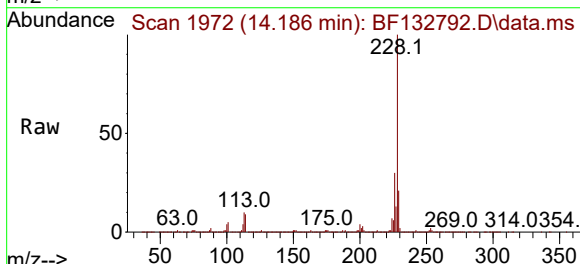
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

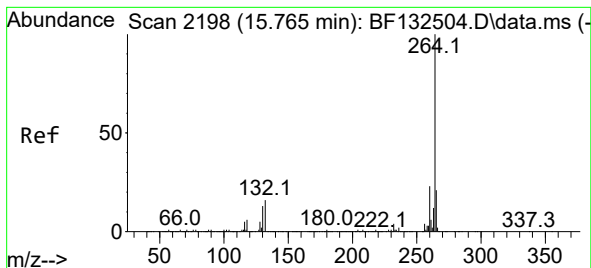
Tgt Ion:228 Resp: 764181  
Ion Ratio Lower Upper  
228 100  
226 29.7 21.7 32.5  
229 20.8 15.4 23.2



#83  
Chrysene  
Concen: 25.762 ng  
RT: 14.186 min Scan# 1972  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:228 Resp: 729737  
Ion Ratio Lower Upper  
228 100  
226 30.4 25.0 37.6  
229 21.2 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.692 min Scan# 2198

Delta R.T. 0.000 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

Instrument :

BNA\_F

ClientSampleId :

MAPLE-2

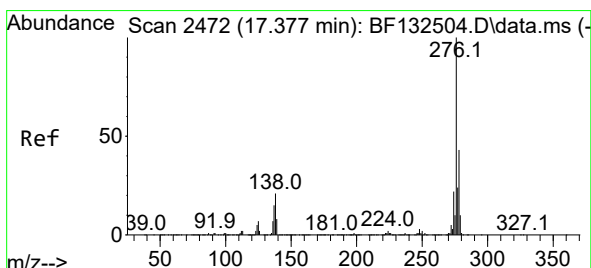
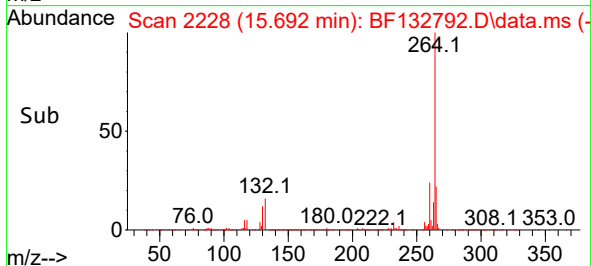
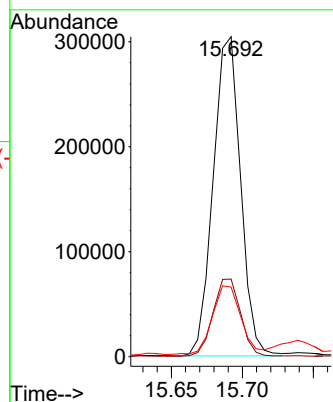
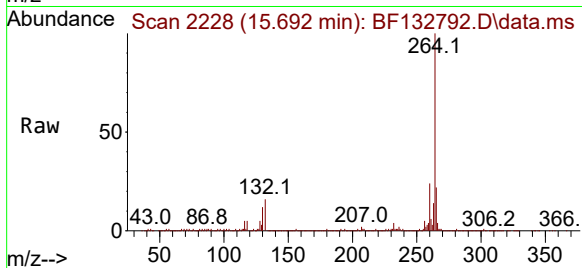
Tgt Ion:264 Resp: 407596

Ion Ratio Lower Upper

264 100

260 24.3 18.8 28.2

265 21.7 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.851 ng

RT: 17.257 min Scan# 2494

Delta R.T. -0.018 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

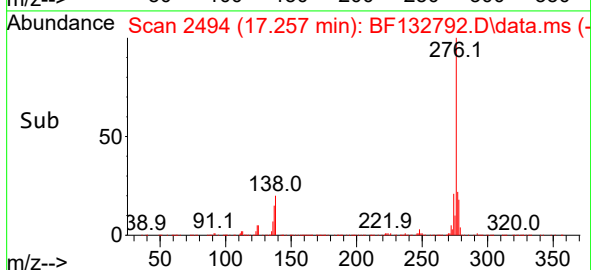
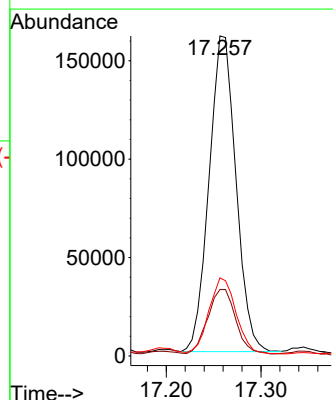
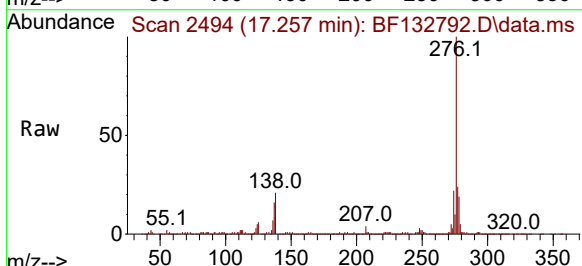
Tgt Ion:276 Resp: 316510

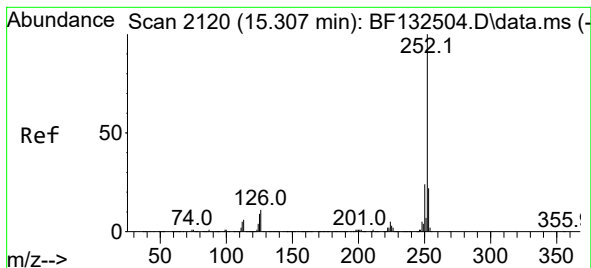
Ion Ratio Lower Upper

276 100

138 21.1 19.0 28.4

277 24.3 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 45.646 ng

RT: 15.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

Instrument :

BNA\_F

ClientSampleId :

MAPLE-2

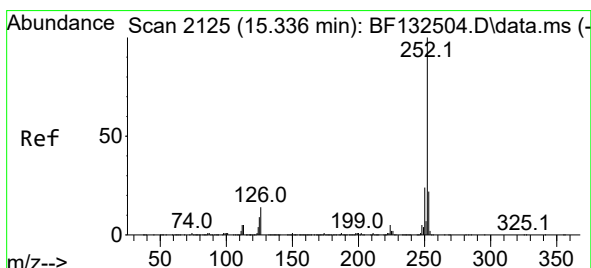
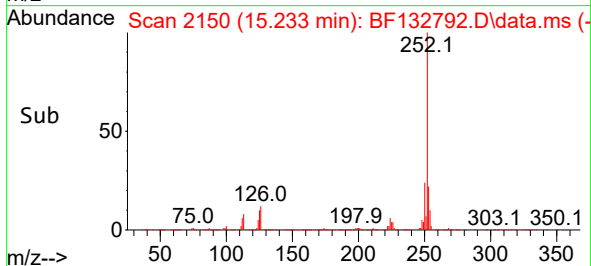
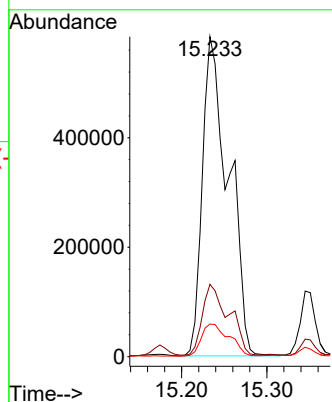
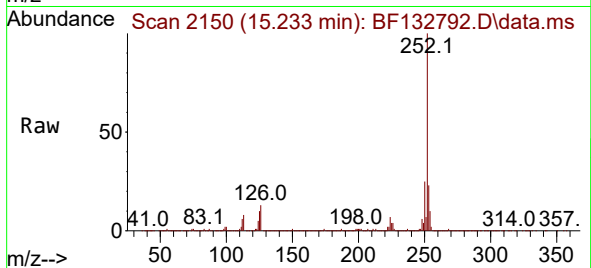
Tgt Ion:252 Resp: 1246822

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 10.2 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 46.640 ng

RT: 15.233 min Scan# 2150

Delta R.T. -0.035 min

Lab File: BF132792.D

Acq: 14 Mar 2023 22:35

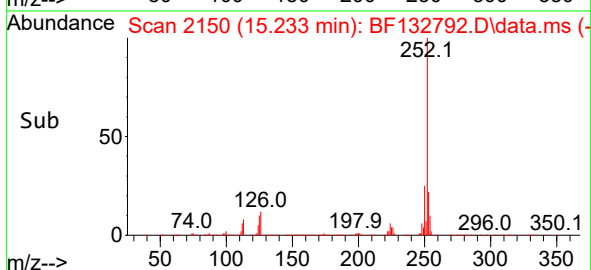
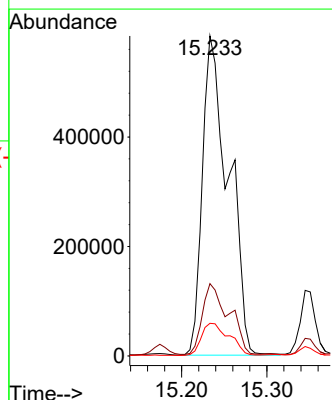
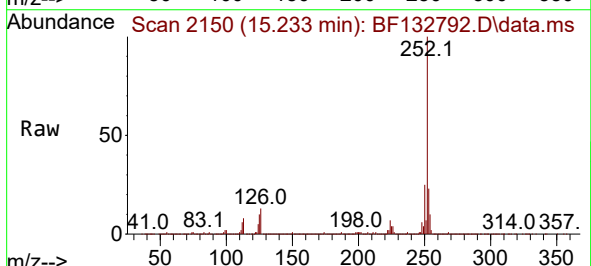
Tgt Ion:252 Resp: 1246822

Ion Ratio Lower Upper

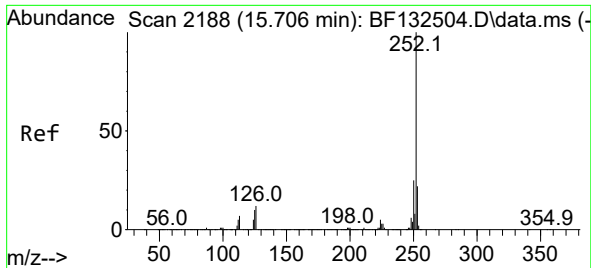
252 100

253 22.6 17.5 26.3

125 10.2 7.2 10.8



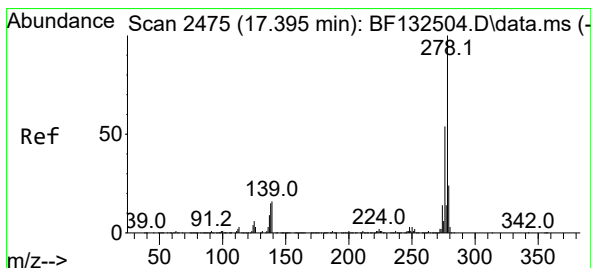
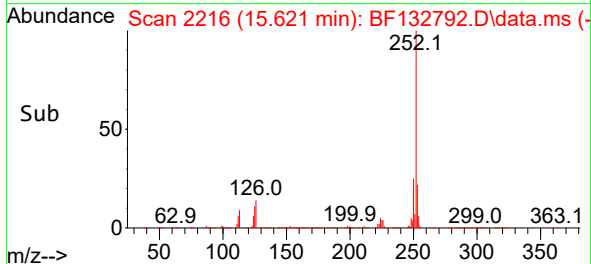
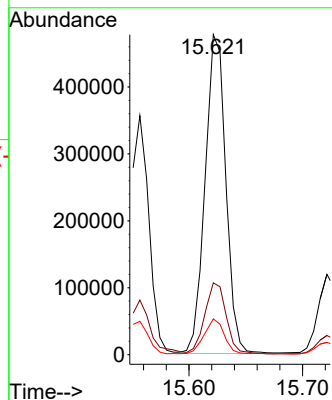
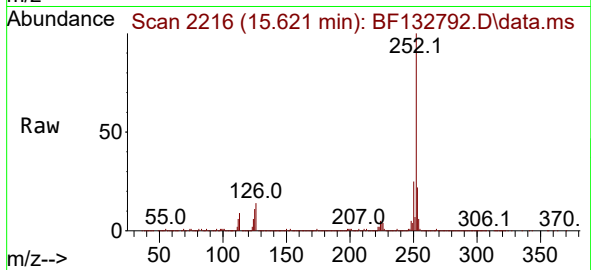




#90  
Benzo(a)pyrene  
Concen: 23.681 ng  
RT: 15.621 min Scan# 2188  
Delta R.T. -0.006 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

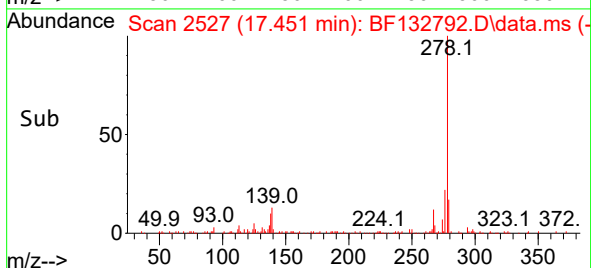
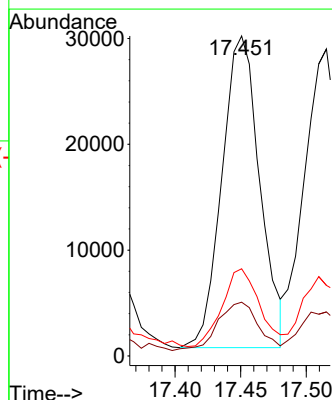
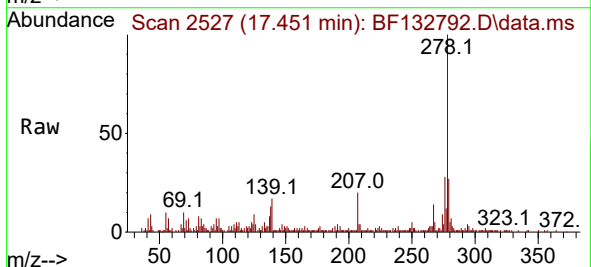
Instrument :  
BNA\_F  
ClientSampleId :  
MAPLE-2

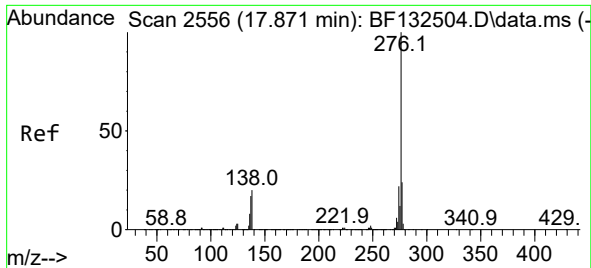
Tgt Ion:252 Resp: 605405  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.2 25.8  
125 11.2 8.0 12.0



#91  
Dibenzo(a,h)anthracene  
Concen: 2.716 ng  
RT: 17.451 min Scan# 2527  
Delta R.T. 0.165 min  
Lab File: BF132792.D  
Acq: 14 Mar 2023 22:35

Tgt Ion:278 Resp: 59103  
Ion Ratio Lower Upper  
278 100  
139 16.8 13.0 19.4  
279 27.2 19.0 28.4





#92  
 Benzo(g,h,i)perylene  
 Concen: 12.468 ng  
 RT: 17.739 min Scan# 21  
 Delta R.T. -0.018 min  
 Lab File: BF132792.D  
 Acq: 14 Mar 2023 22:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MAPLE-2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 276194 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.9  | 18.9  | 28.3   |
| 138       | 20.5  | 16.2  | 24.4   |

