

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF022422\  
 Data File : BF127060.D  
 Acq On : 24 Feb 2022 16:36  
 Operator : CG\JU  
 Sample : N1635-03DL 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-124042DL

Quant Time: Feb 25 01:45:46 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 24 02:10:57 2022  
 Response via : Initial Calibration

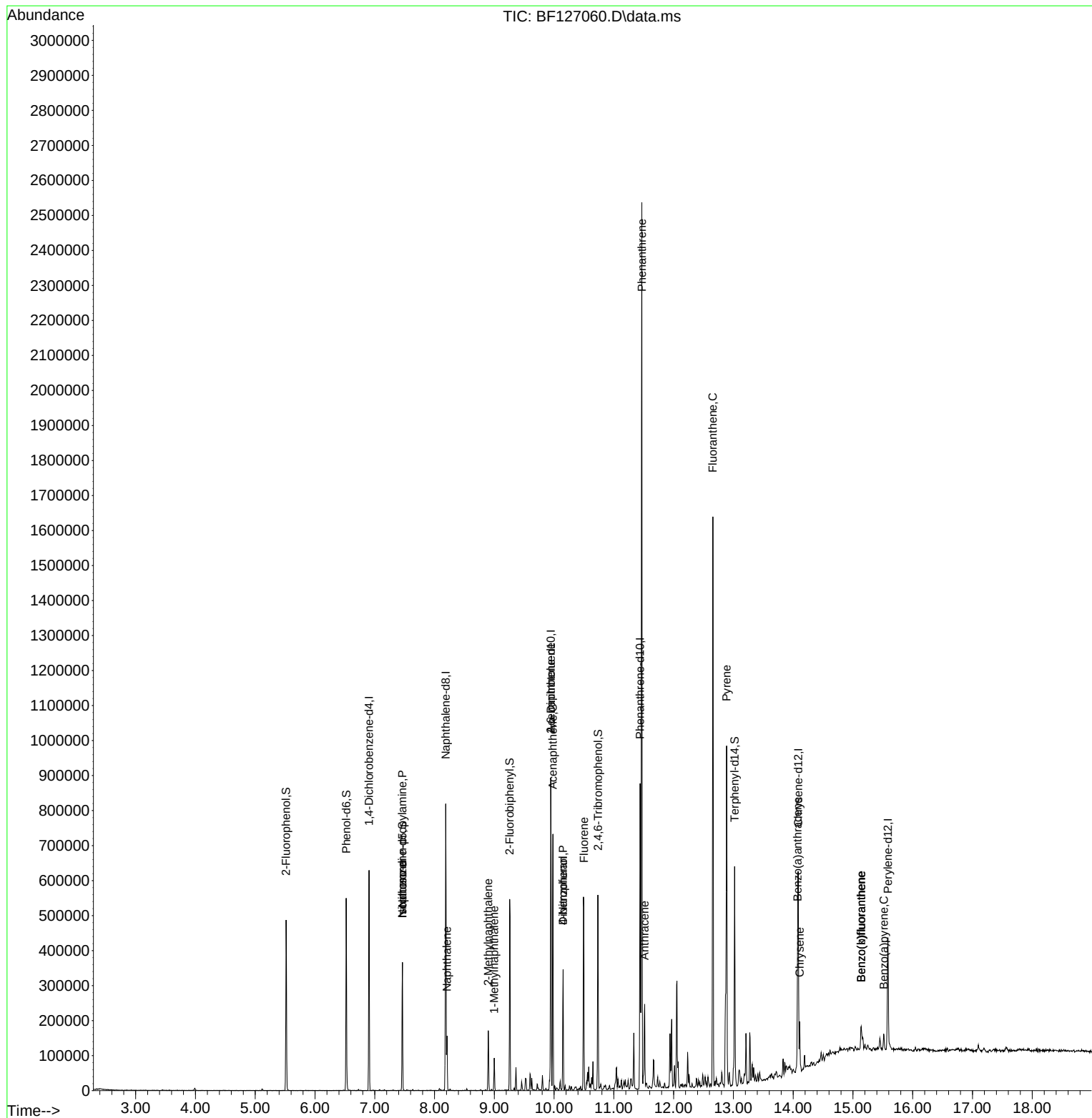
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.904  | 152  | 75577    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.186  | 136  | 310098   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.945  | 164  | 165253   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.439 | 188  | 293803   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 14.086 | 240  | 164870   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.586 | 264  | 133859   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 105353   | 21.545 | ng    | -0.01    |
| 7) Phenol-d6                  | 6.522  | 99   | 137389   | 20.822 | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.463  | 82   | 100835   | 14.677 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.733 | 330  | 46135    | 24.248 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.257  | 172  | 146015   | 13.008 | ng    | -0.01    |
| 79) Terphenyl-d14             | 13.021 | 244  | 174544   | 15.563 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
| 19) n-Nitroso-di-n-propyla... | 7.463  | 70   | 13970    | 3.286  | ng    | # 85     |
| 25) Isophorone                | 7.463  | 82   | 100833   | 8.870  | ng    | # 69     |
| 31) Naphthalene               | 8.210  | 128  | 55993    | 3.459  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.898  | 142  | 38384    | 3.654  | ng    | 95       |
| 38) 1-Methylnaphthalene       | 8.998  | 142  | 20559    | 2.044  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.945  | 165  | 22656    | 9.427  | ng    | # 21     |
| 52) Acenaphthene              | 9.980  | 154  | 134566   | 13.120 | ng    | 99       |
| 55) Dibenzofuran              | 10.151 | 168  | 103955   | 7.371  | ng    | # 89     |
| 56) 4-Nitrophenol             | 10.151 | 139  | 49312    | 22.728 | ng    | # 7      |
| 58) Fluorene                  | 10.498 | 166  | 146457   | 13.331 | ng    | 97       |
| 71) Phenanthrene              | 11.469 | 178  | 827894   | 50.344 | ng    | 100      |
| 72) Anthracene                | 11.516 | 178  | 83573    | 5.105  | ng    | 99       |
| 75) Fluoranthene              | 12.657 | 202  | 572813   | 36.685 | ng    | 93       |
| 78) Pyrene                    | 12.886 | 202  | 369834   | 25.820 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.074 | 228  | 77993    | 7.017  | ng    | 98       |
| 83) Chrysene                  | 14.110 | 228  | 47727    | 4.566  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 15.139 | 252  | 46814    | 5.207  | ng    | # 96     |
| 89) Benzo(k)fluoranthene      | 15.139 | 252  | 46814    | 5.399  | ng    | 97       |
| 90) Benzo(a)pyrene            | 15.515 | 252  | 18347    | 2.613  | ng    | 97       |

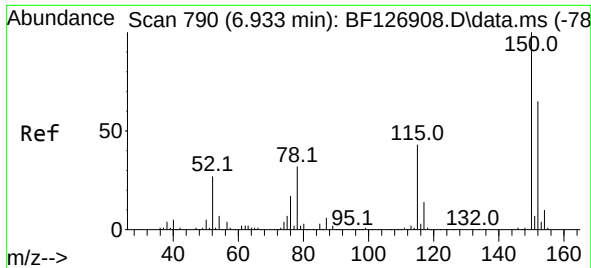
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF022422\  
Data File : BF127060.D  
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Sample : N1635-03DL 5X  
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ALS Vial : 7 Sample Multiplier: 1

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Quant Time: Feb 25 01:45:46 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF021622.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 24 02:10:57 2022  
Response via : Initial Calibration

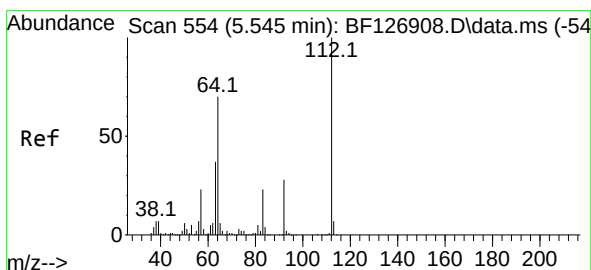
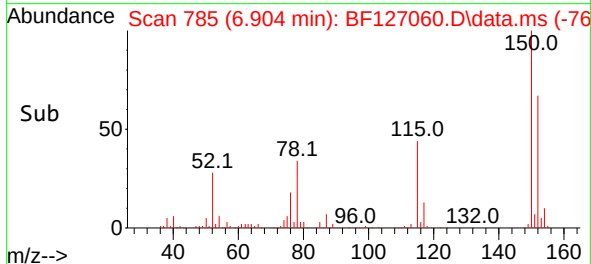
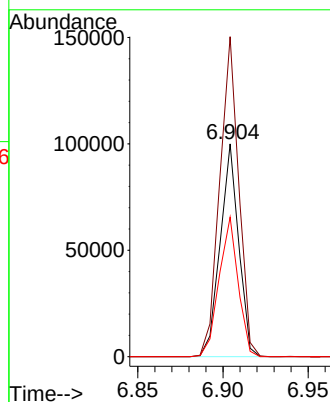
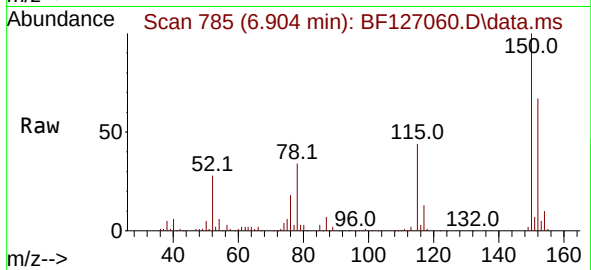




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.904 min Scan# 71  
 Delta R.T. -0.006 min  
 Lab File: BF127060.D  
 Acq: 24 Feb 2022 16:36

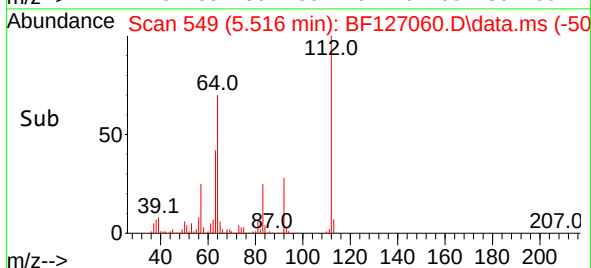
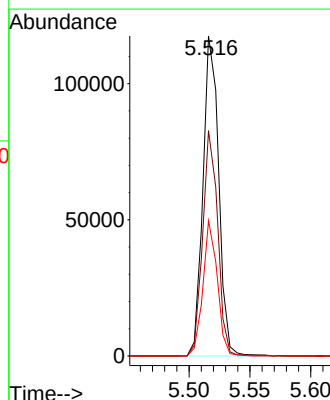
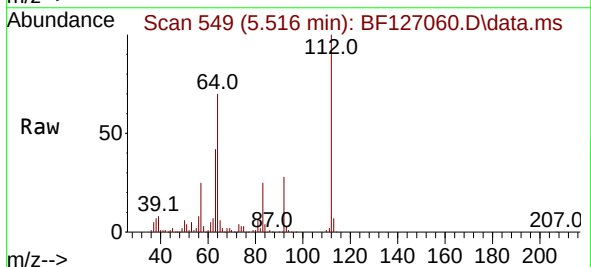
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-124042DL

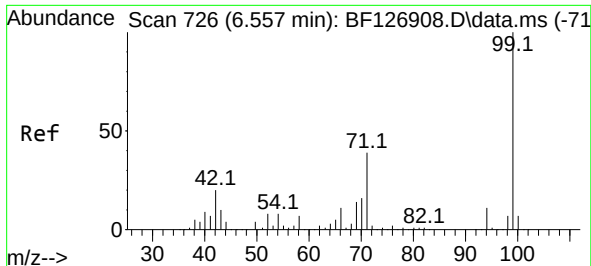
Tgt Ion:152 Resp: 75577  
 Ion Ratio Lower Upper  
 152 100  
 150 150.3 128.1 192.1  
 115 65.5 56.7 85.1



#5  
 2-Fluorophenol  
 Concen: 21.545 ng  
 RT: 5.516 min Scan# 549  
 Delta R.T. -0.012 min  
 Lab File: BF127060.D  
 Acq: 24 Feb 2022 16:36

Tgt Ion:112 Resp: 105353  
 Ion Ratio Lower Upper  
 112 100  
 64 70.4 49.5 74.3  
 63 42.2 23.9 35.9#

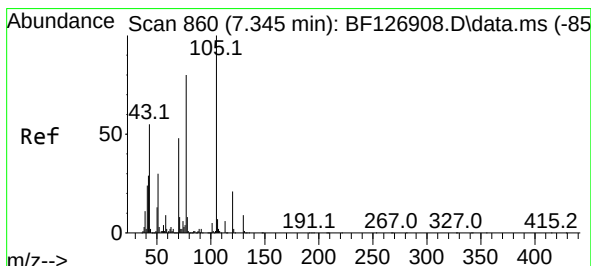
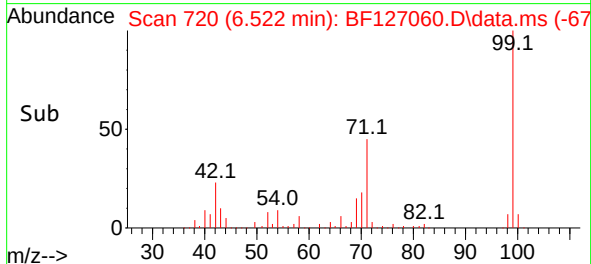
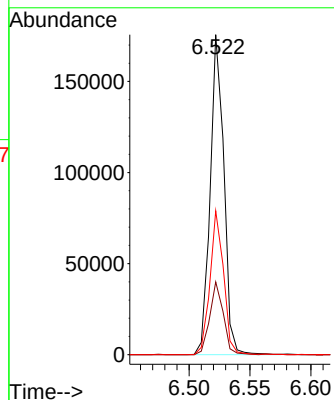
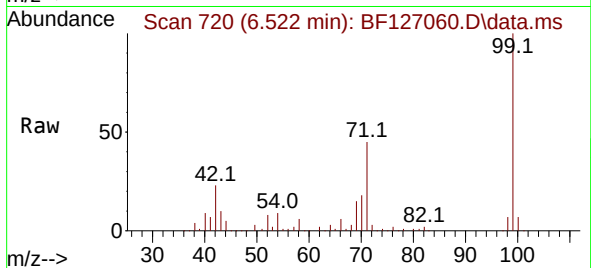




#7  
Phenol-d6  
Concen: 20.822 ng  
RT: 6.522 min Scan# 71  
Delta R.T. -0.018 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

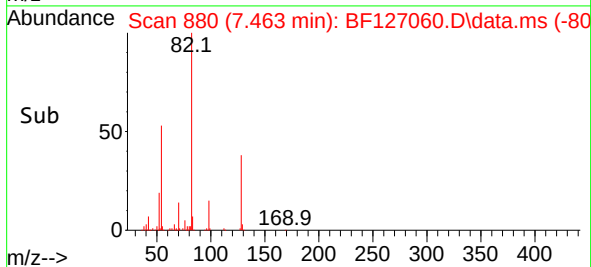
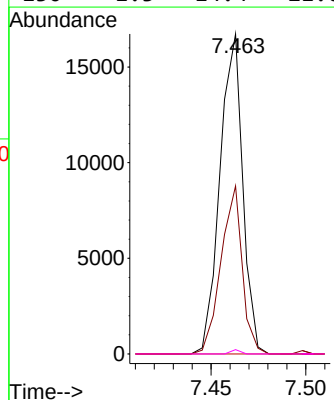
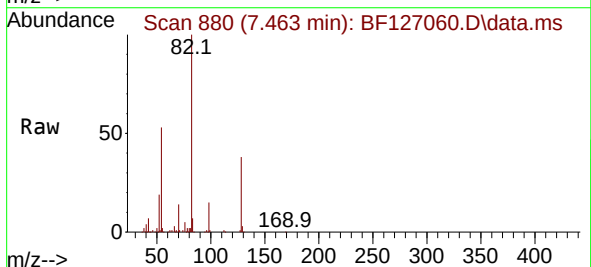
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

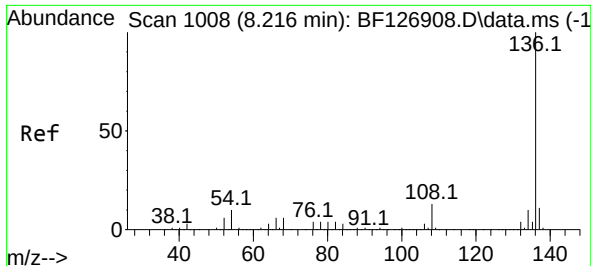
Tgt Ion: 99 Resp: 137389  
Ion Ratio Lower Upper  
99 100  
42 22.8 14.2 21.4#  
71 44.9 24.3 36.5#



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.286 ng  
RT: 7.463 min Scan# 880  
Delta R.T. 0.141 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion: 70 Resp: 13970  
Ion Ratio Lower Upper  
70 100  
42 52.5 45.8 68.8  
101 0.0 6.9 10.3#  
130 1.3 14.4 21.6#



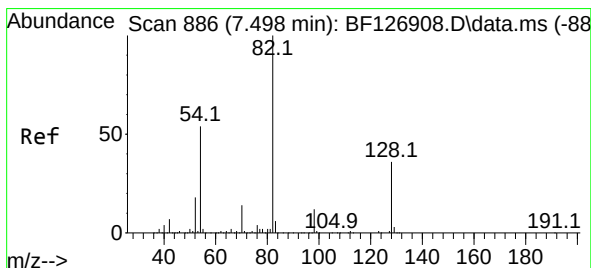
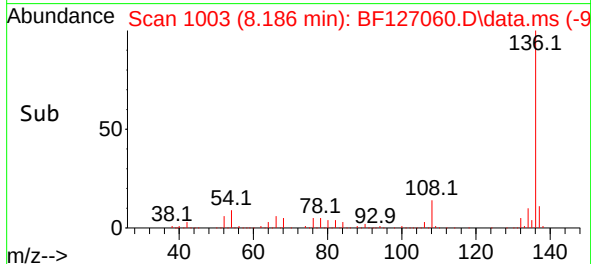
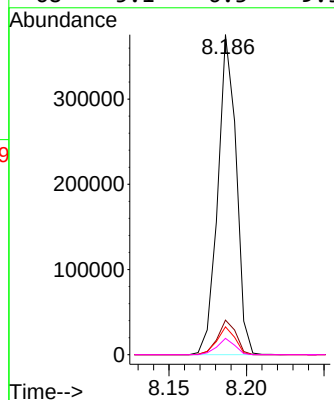
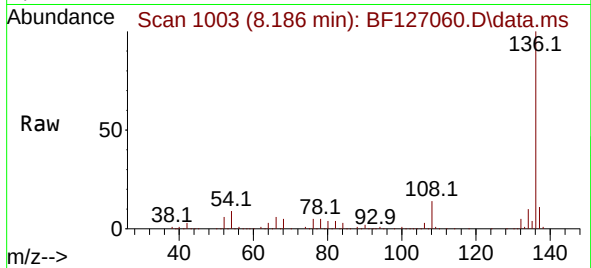


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.186 min Scan# 10  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

Tgt Ion:136 Resp: 310098

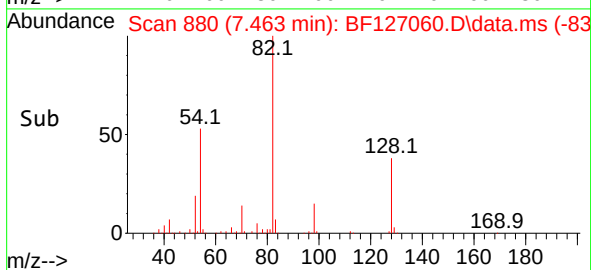
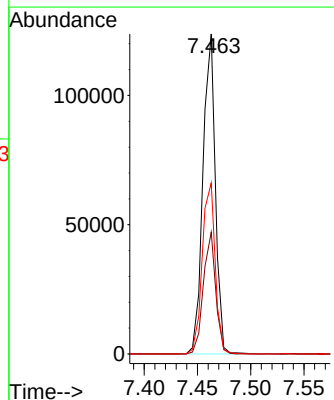
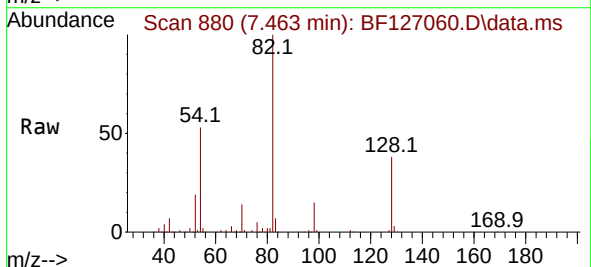
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.6   | 13.0  |
| 54  | 8.7   | 7.8   | 11.6  |
| 68  | 5.1   | 6.3   | 9.5   |

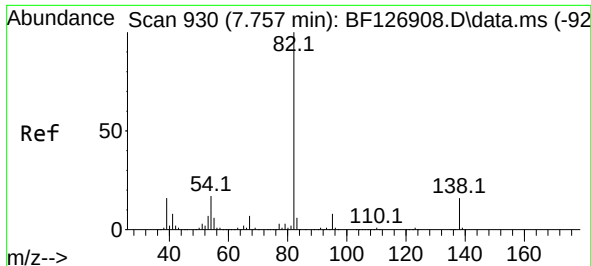


#23  
Nitrobenzene-d5  
Concen: 14.677 ng  
RT: 7.463 min Scan# 880  
Delta R.T. -0.012 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion: 82 Resp: 100835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.1  | 32.7  | 49.1  |
| 54  | 53.5  | 41.7  | 62.5  |

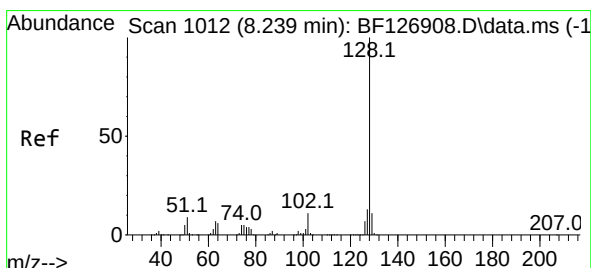
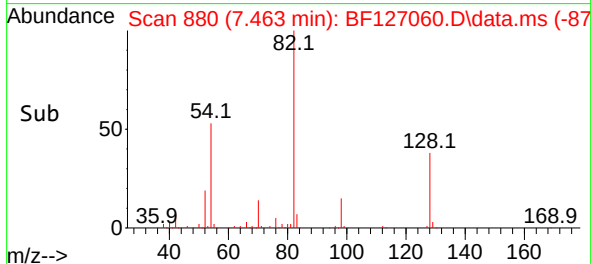
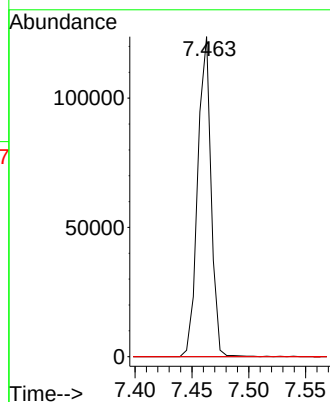
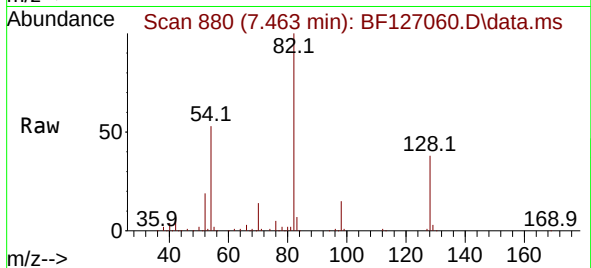




#25  
Isophorone  
Concen: 8.870 ng  
RT: 7.463 min Scan# 81  
Delta R.T. -0.271 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

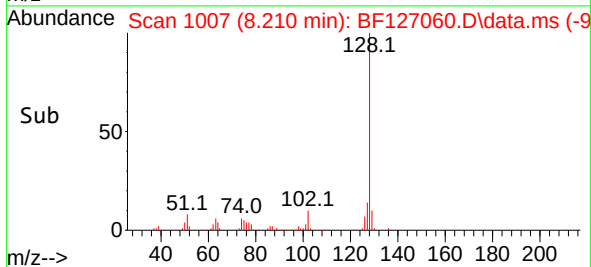
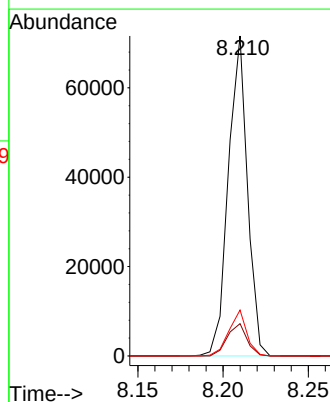
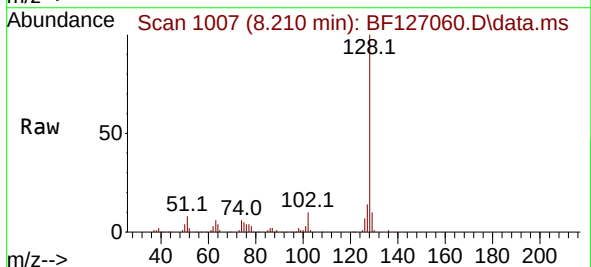
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ClientSampleId :  
RO-124042DL

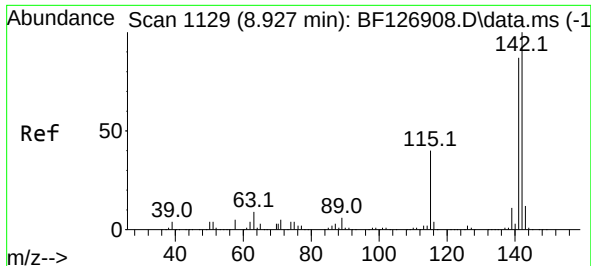
Tgt Ion: 82 Resp: 100833  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.0 7.4#  
138 0.0 12.3 18.5#



#31  
Naphthalene  
Concen: 3.459 ng  
RT: 8.210 min Scan# 1007  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion: 128 Resp: 55993  
Ion Ratio Lower Upper  
128 100  
129 10.1 8.6 13.0  
127 14.3 10.3 15.5

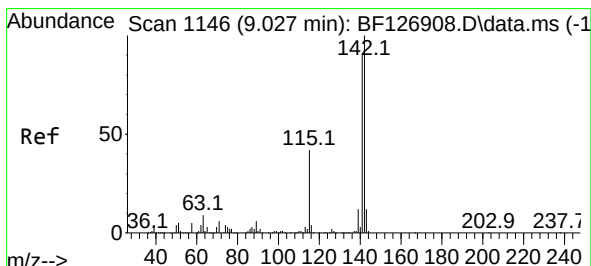
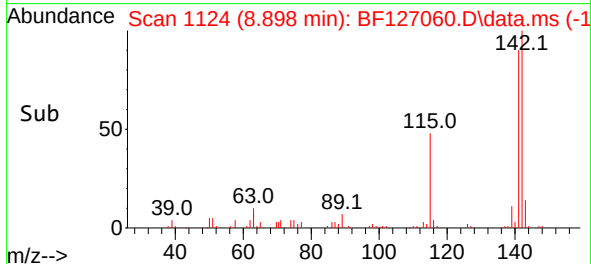
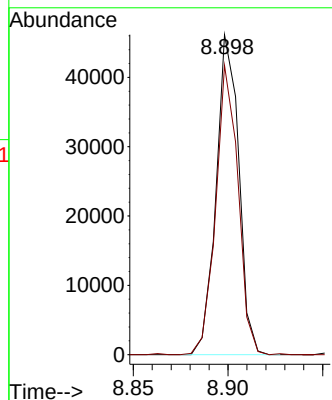
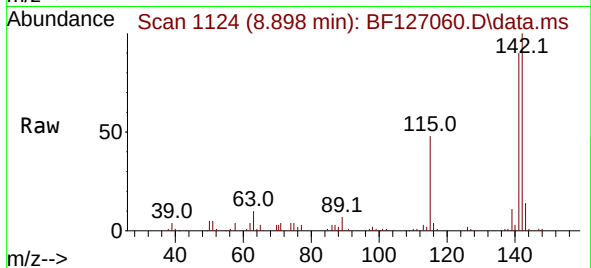




#37  
2-Methylnaphthalene  
Concen: 3.654 ng  
RT: 8.898 min Scan# 1114  
Delta R.T. -0.012 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

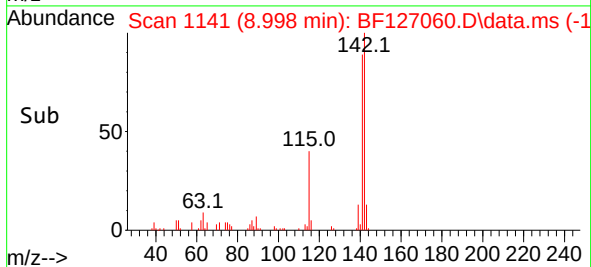
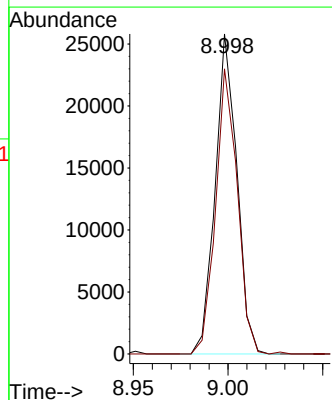
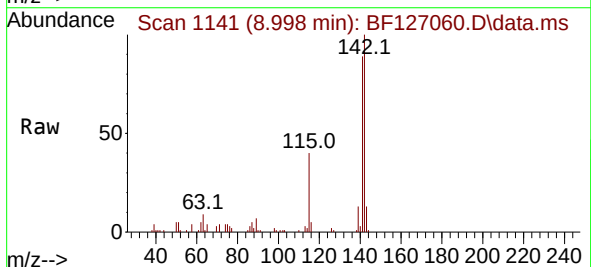
Instrument :  
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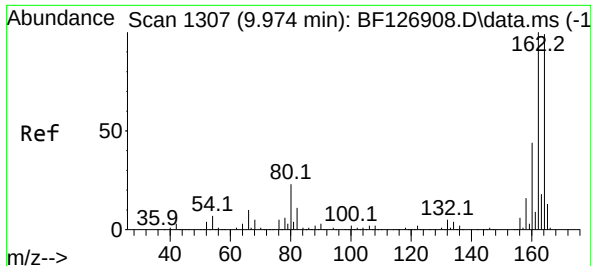
Tgt Ion:142 Resp: 38384  
Ion Ratio Lower Upper  
142 100  
141 90.4 68.6 102.8



#38  
1-Methylnaphthalene  
Concen: 2.044 ng  
RT: 8.998 min Scan# 1141  
Delta R.T. -0.012 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:142 Resp: 20559  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.945 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

Instrument :

BNA\_F

ClientSampleId :

RO-124042DL

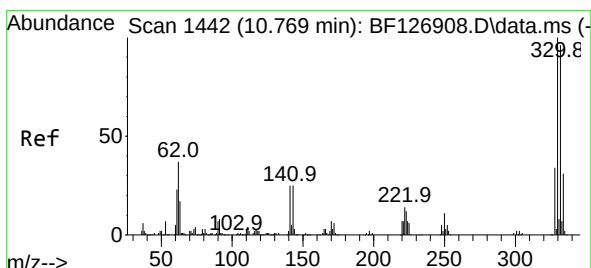
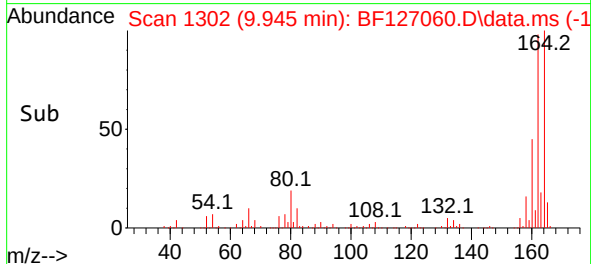
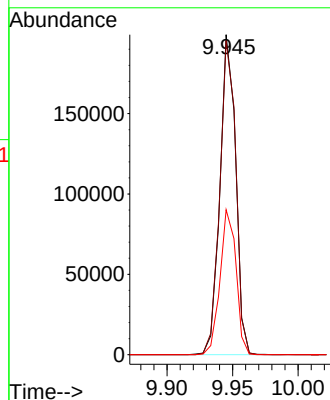
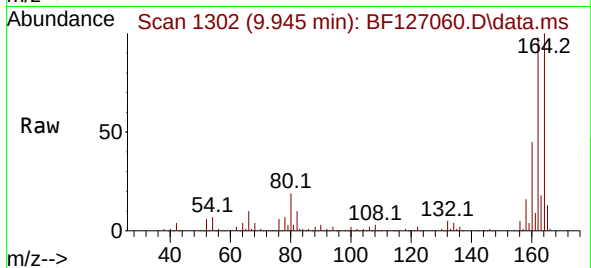
Tgt Ion:164 Resp: 165253

Ion Ratio Lower Upper

164 100

162 98.2 81.4 122.0

160 45.3 36.6 54.8



#42

2,4,6-Tribromophenol

Concen: 24.248 ng

RT: 10.733 min Scan# 1436

Delta R.T. -0.012 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

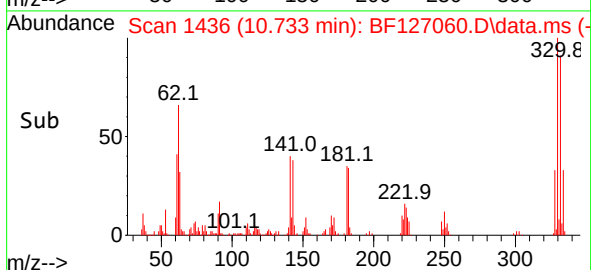
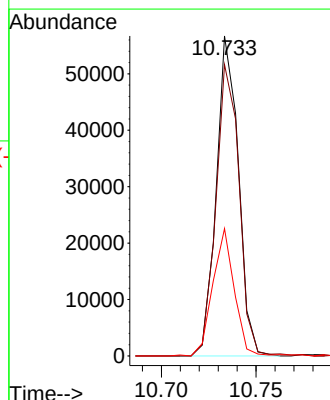
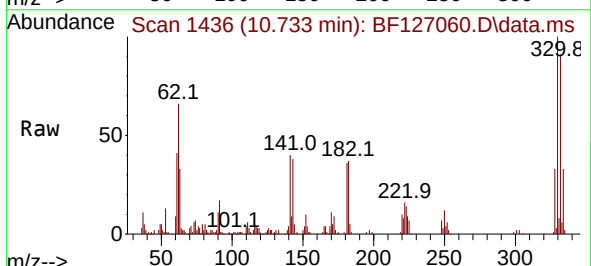
Tgt Ion:330 Resp: 46135

Ion Ratio Lower Upper

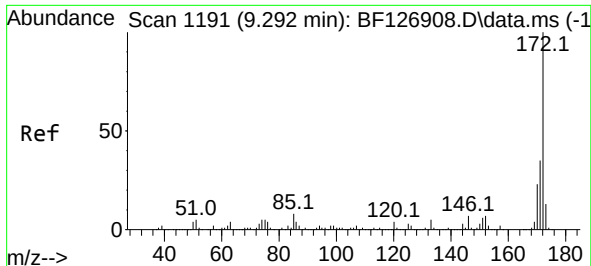
330 100

332 95.5 76.0 114.0

141 39.2 30.1 45.1



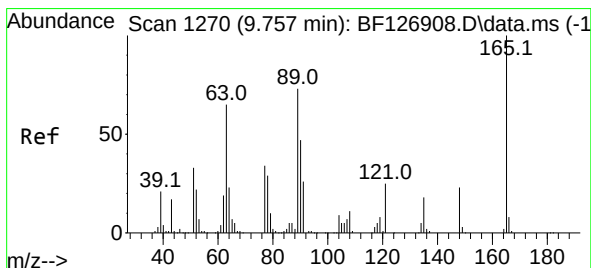
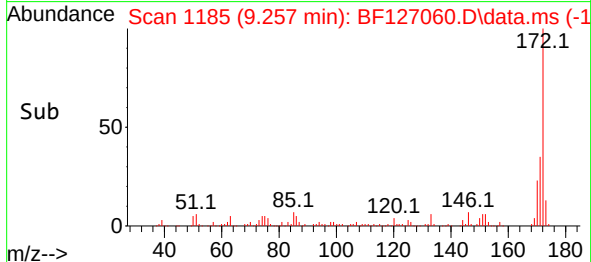
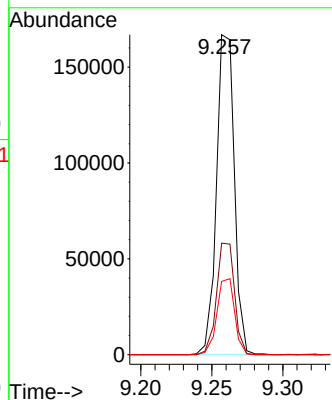
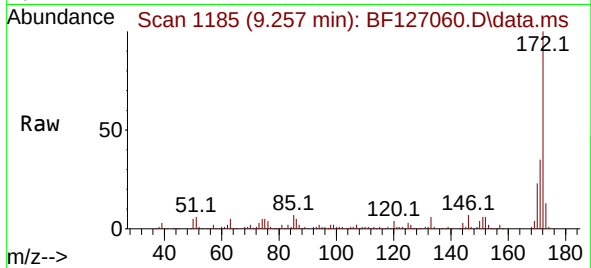




#45  
2-Fluorobiphenyl  
Concen: 13.008 ng  
RT: 9.257 min Scan# 1191  
Delta R.T. -0.012 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

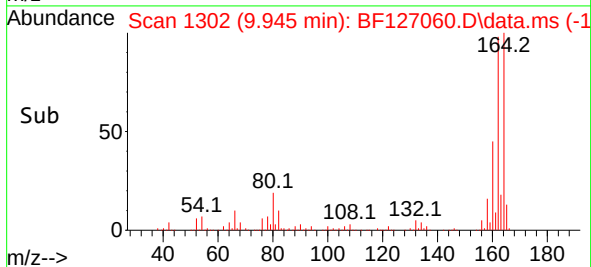
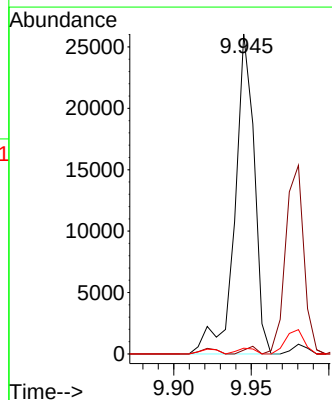
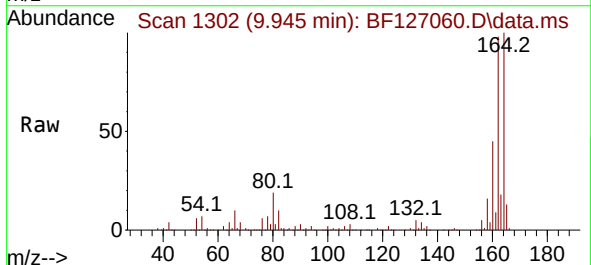
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

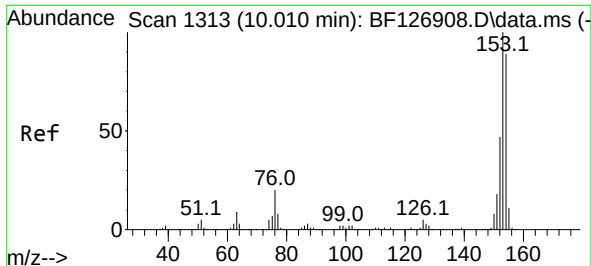
Tgt Ion:172 Resp: 146015  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.3 42.5  
170 22.9 19.0 28.6



#51  
2,6-Dinitrotoluene  
Concen: 9.427 ng  
RT: 9.945 min Scan# 1302  
Delta R.T. 0.212 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:165 Resp: 22656  
Ion Ratio Lower Upper  
165 100  
63 1.2 48.4 72.6#  
89 1.8 50.5 75.7#

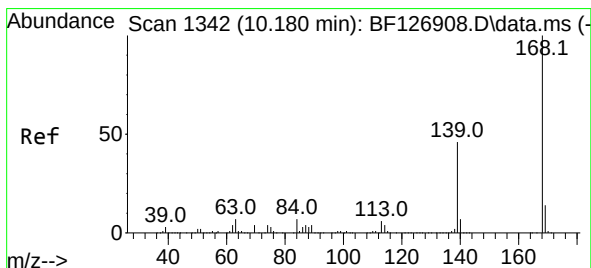
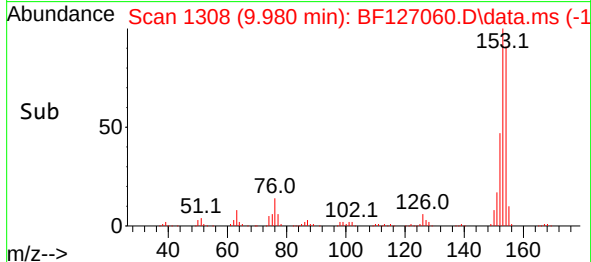
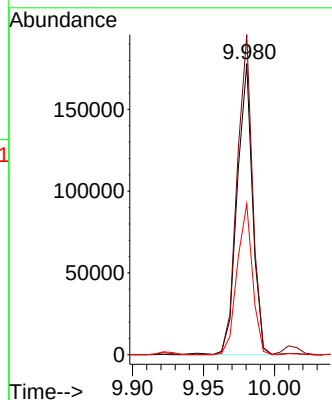
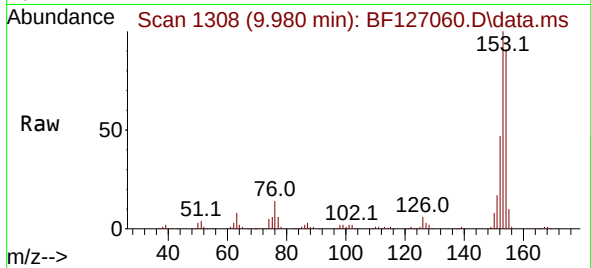




#52  
Acenaphthene  
Concen: 13.120 ng  
RT: 9.980 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

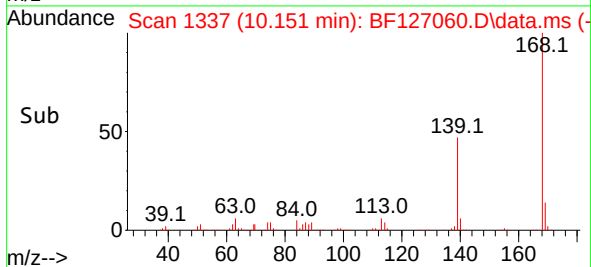
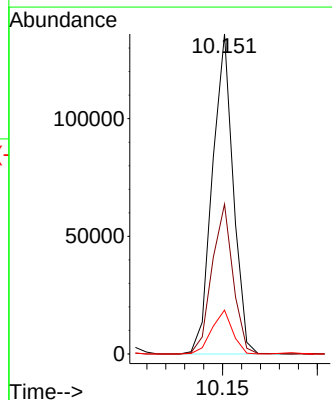
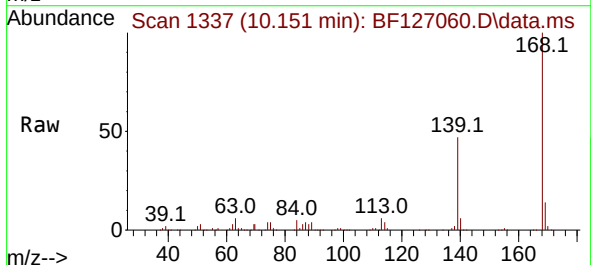
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

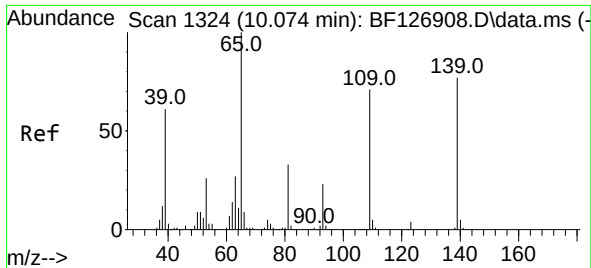
Tgt Ion:154 Resp: 134566  
Ion Ratio Lower Upper  
154 100  
153 110.0 87.8 131.6  
152 51.8 39.4 59.2



#55  
Dibenzofuran  
Concen: 7.371 ng  
RT: 10.151 min Scan# 1337  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:168 Resp: 103955  
Ion Ratio Lower Upper  
168 100  
139 46.8 30.6 46.0#  
169 13.7 10.0 15.0

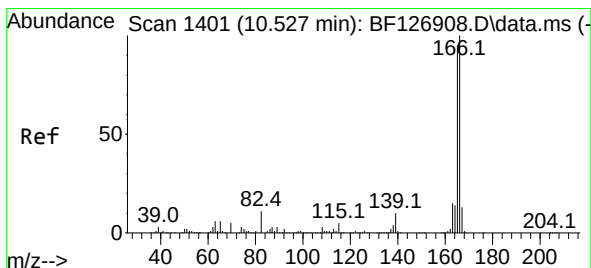
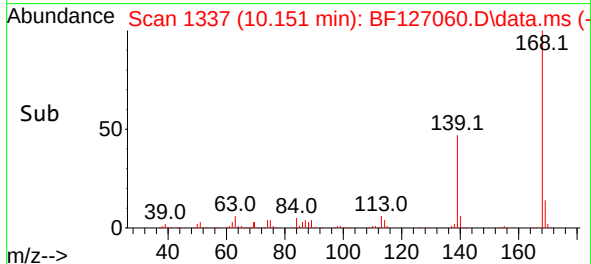
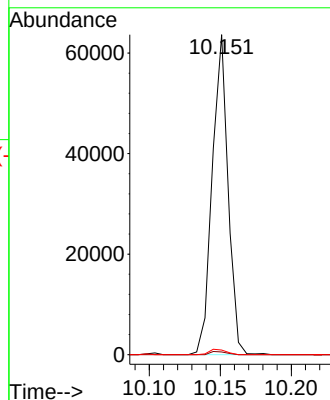
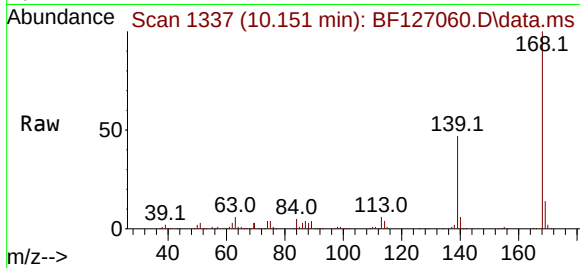




#56  
4-Nitrophenol  
Concen: 22.728 ng  
RT: 10.151 min Scan# 1337  
Delta R.T. 0.088 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

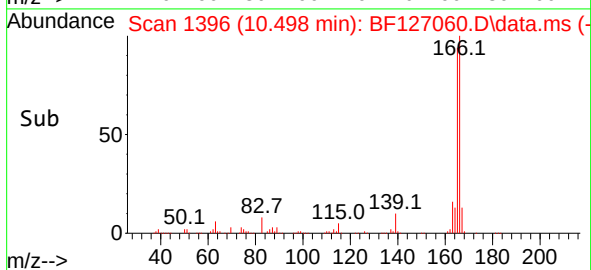
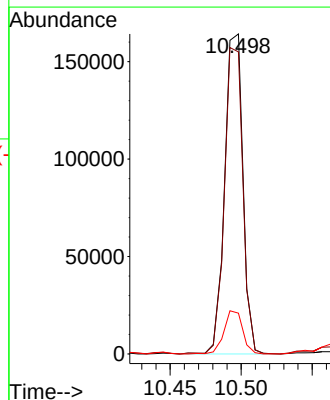
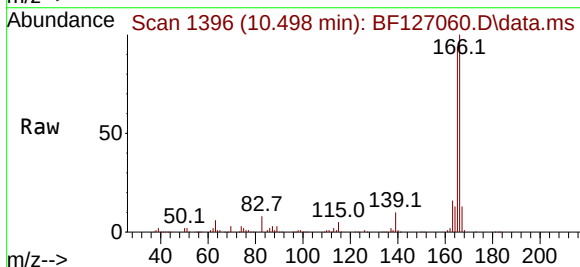
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

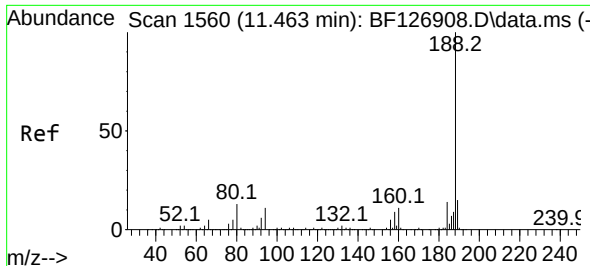
Tgt Ion:139 Resp: 49312  
Ion Ratio Lower Upper  
139 100  
109 0.8 44.1 84.1#  
65 1.5 85.5 125.5#



#58  
Fluorene  
Concen: 13.331 ng  
RT: 10.498 min Scan# 1396  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:166 Resp: 146457  
Ion Ratio Lower Upper  
166 100  
165 94.4 77.7 116.5  
167 12.8 10.7 16.1

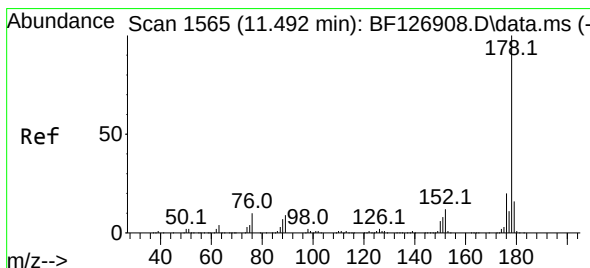
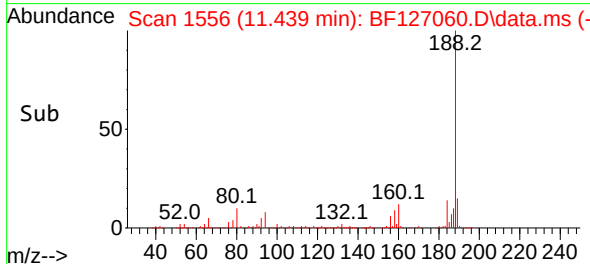
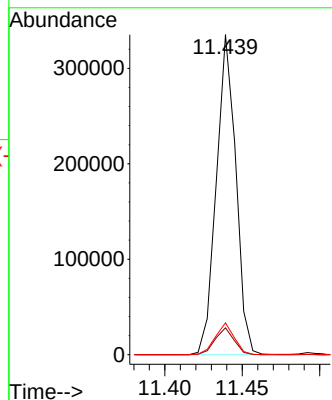
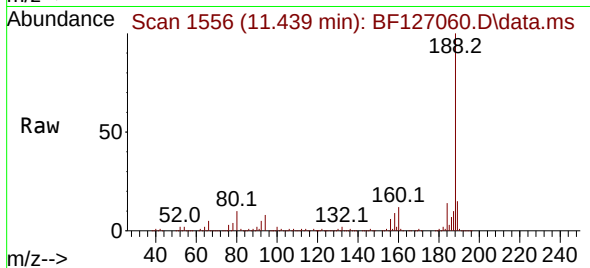




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.439 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

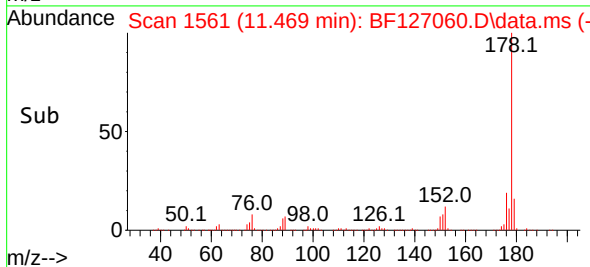
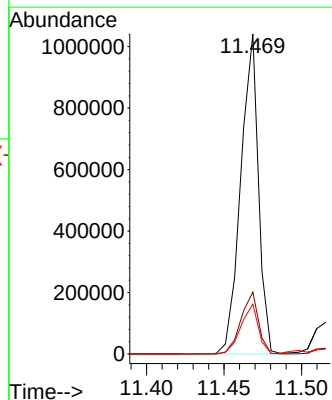
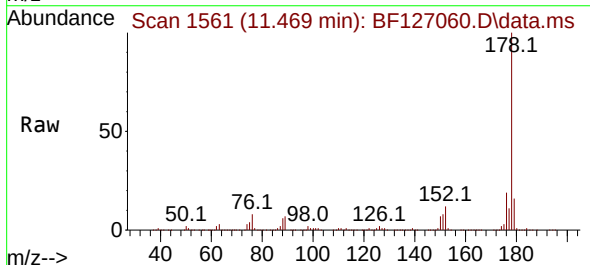
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

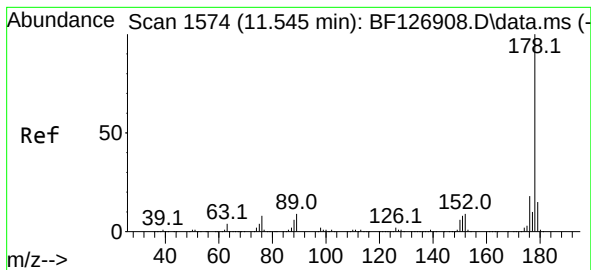
Tgt Ion:188 Resp: 293803  
Ion Ratio Lower Upper  
188 100  
94 8.4 10.1 15.1#  
80 9.9 11.8 17.6#



#71  
Phenanthrene  
Concen: 50.344 ng  
RT: 11.469 min Scan# 1561  
Delta R.T. 0.000 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:178 Resp: 827894  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.7 23.5  
179 15.6 12.3 18.5





#72

Anthracene

Concen: 5.105 ng

RT: 11.516 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

Instrument :

BNA\_F

ClientSampleId :

RO-124042DL

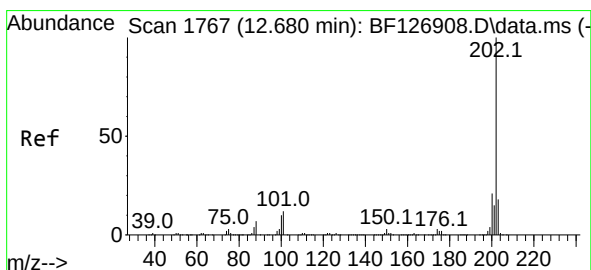
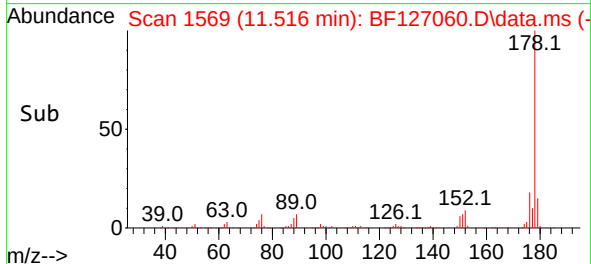
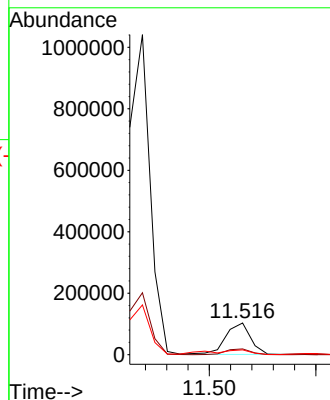
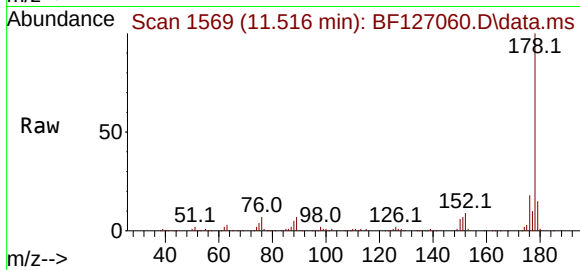
Tgt Ion:178 Resp: 83573

Ion Ratio Lower Upper

178 100

176 18.2 15.0 22.6

179 15.2 12.5 18.7



#75

Fluoranthene

Concen: 36.685 ng

RT: 12.657 min Scan# 1763

Delta R.T. -0.000 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

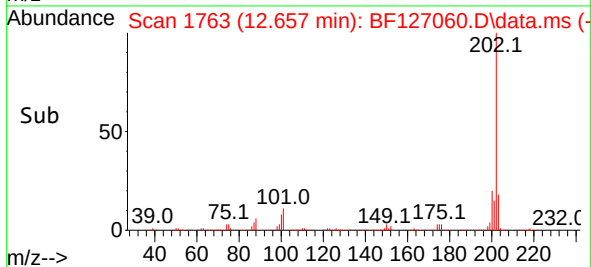
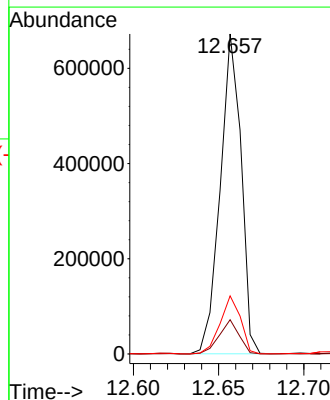
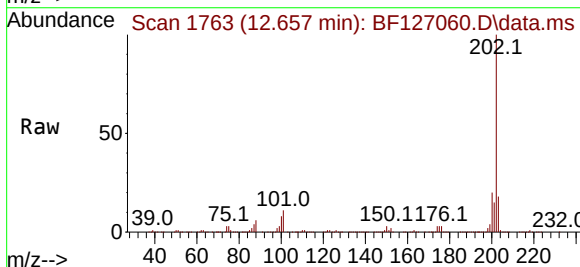
Tgt Ion:202 Resp: 572813

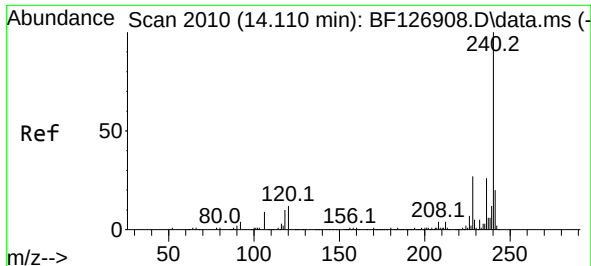
Ion Ratio Lower Upper

202 100

101 10.7 0.0 35.7

203 18.2 0.0 37.1

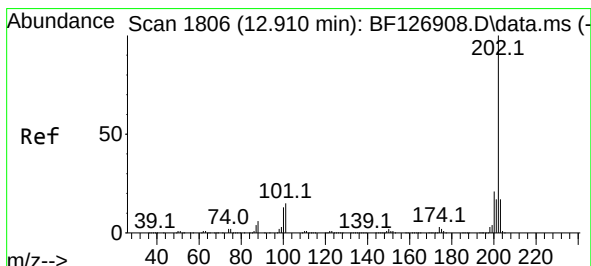
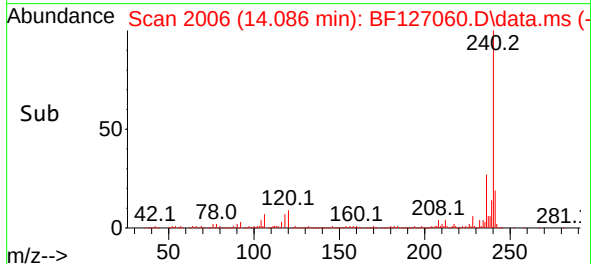
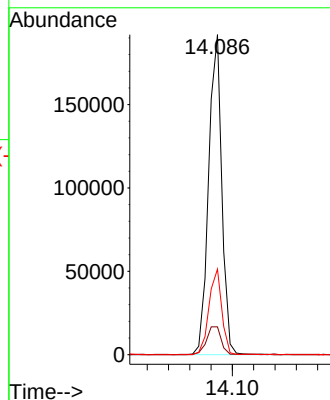
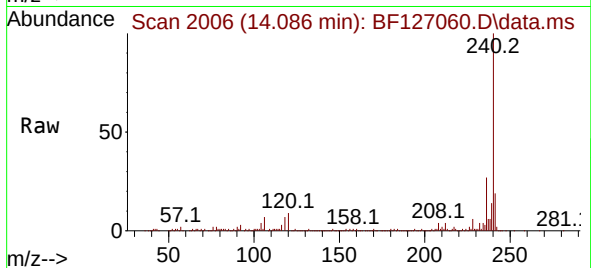




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.086 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

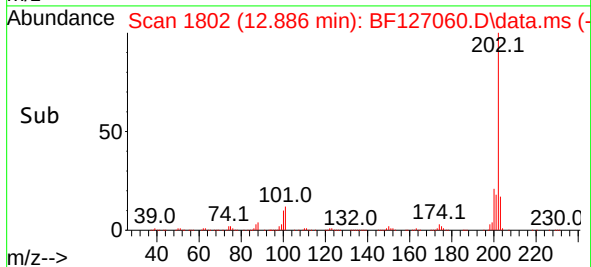
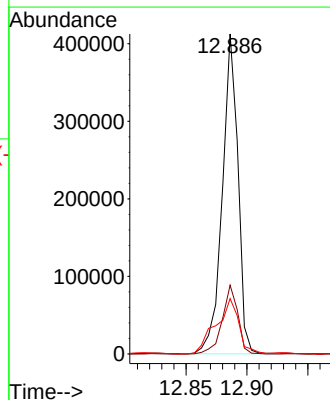
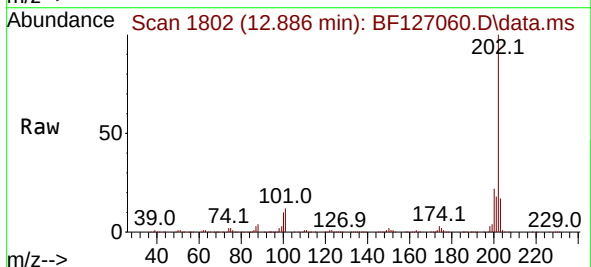
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

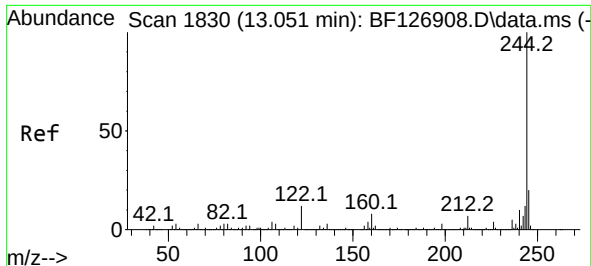
Tgt Ion:240 Resp: 164870  
Ion Ratio Lower Upper  
240 100  
120 8.7 14.4 21.6#  
236 26.8 20.5 30.7



#78  
Pyrene  
Concen: 25.820 ng  
RT: 12.886 min Scan# 1802  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:202 Resp: 369834  
Ion Ratio Lower Upper  
202 100  
200 21.5 16.6 24.8  
203 17.3 13.8 20.8

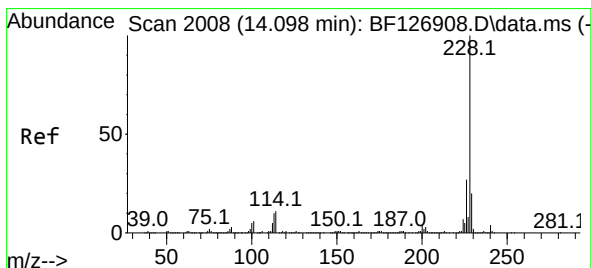
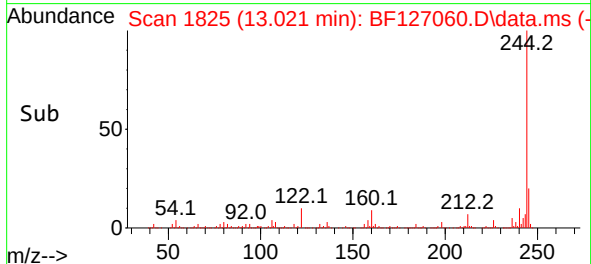
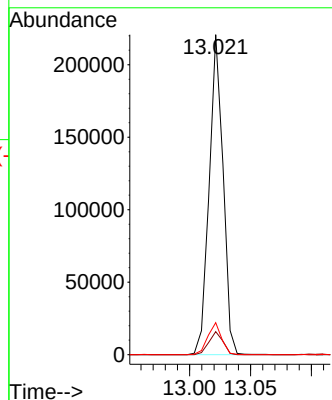
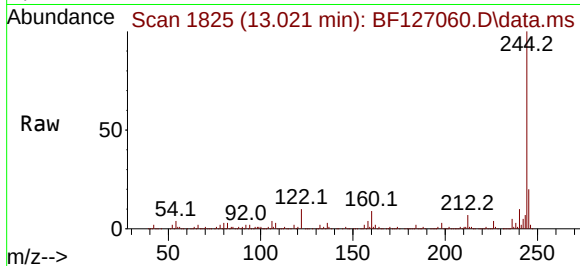




#79  
 Terphenyl-d14  
 Concen: 15.563 ng  
 RT: 13.021 min Scan# 1825  
 Delta R.T. -0.006 min  
 Lab File: BF127060.D  
 Acq: 24 Feb 2022 16:36

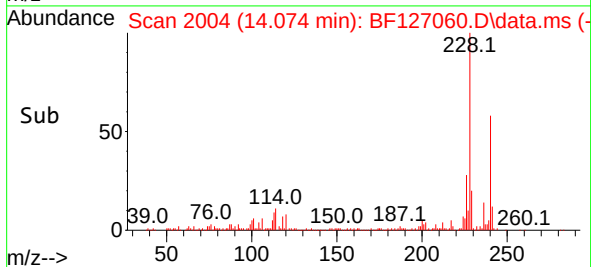
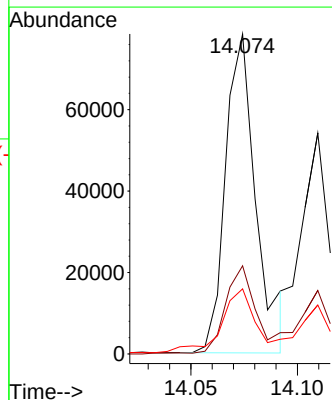
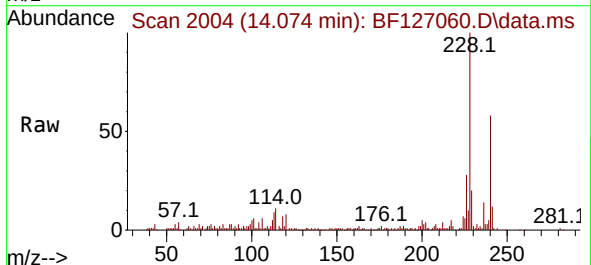
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-124042DL

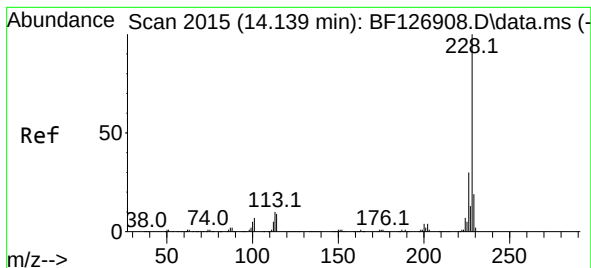
Tgt Ion:244 Resp: 174544  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.0 7.4  
 122 10.0 13.3 19.9#



#81  
 Benzo(a)anthracene  
 Concen: 7.017 ng  
 RT: 14.074 min Scan# 2004  
 Delta R.T. -0.006 min  
 Lab File: BF127060.D  
 Acq: 24 Feb 2022 16:36

Tgt Ion:228 Resp: 77993  
 Ion Ratio Lower Upper  
 228 100  
 226 27.6 21.4 32.0  
 229 20.4 15.4 23.2





#83

Chrysene

Concen: 4.566 ng

RT: 14.110 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

Instrument :

BNA\_F

ClientSampleId :

RO-124042DL

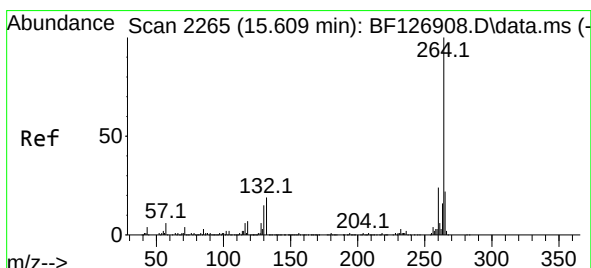
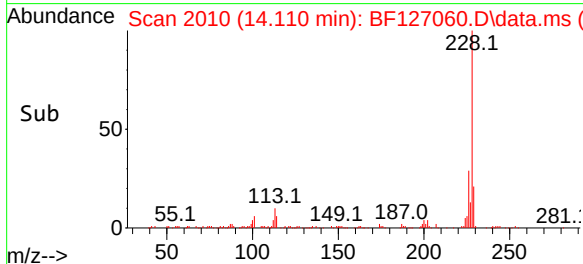
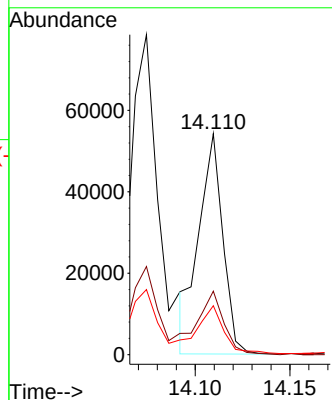
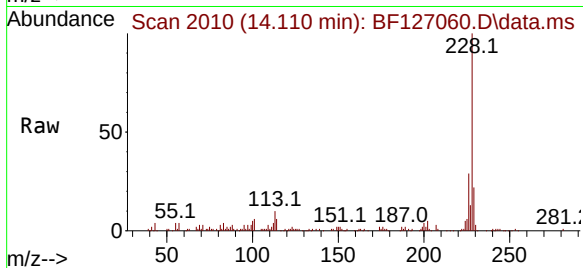
Tgt Ion:228 Resp: 47727

Ion Ratio Lower Upper

228 100

226 28.8 23.7 35.5

229 22.1 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.586 min Scan# 2261

Delta R.T. -0.000 min

Lab File: BF127060.D

Acq: 24 Feb 2022 16:36

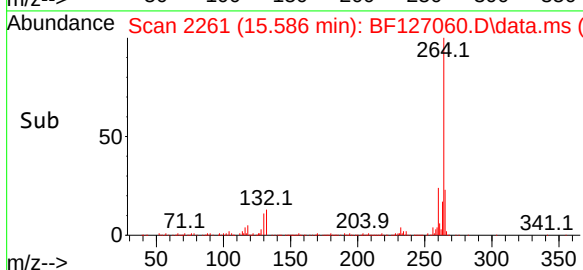
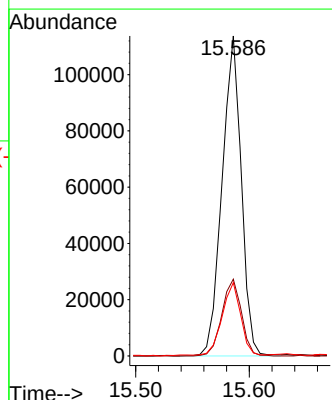
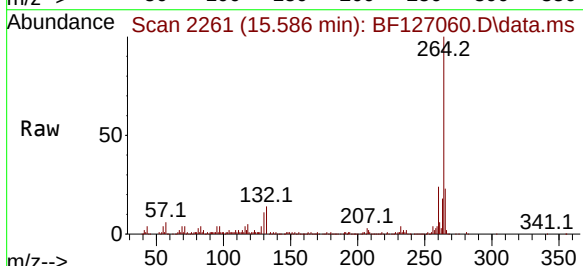
Tgt Ion:264 Resp: 133859

Ion Ratio Lower Upper

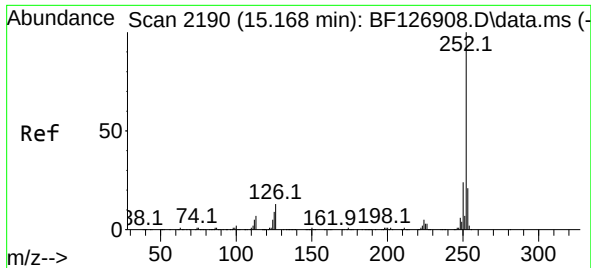
264 100

260 24.0 19.2 28.8

265 22.9 17.4 26.2



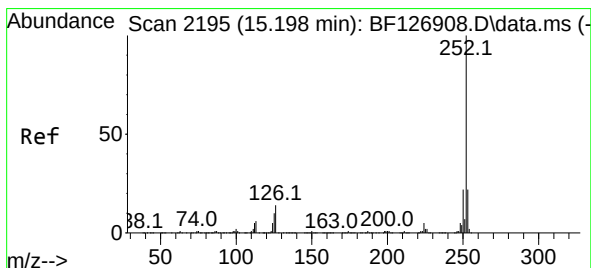
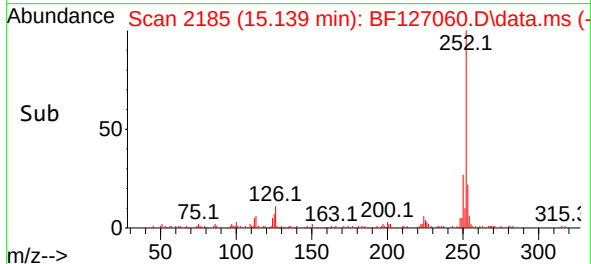
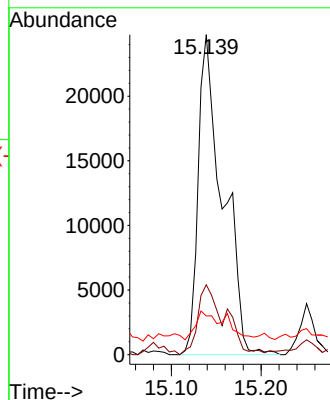
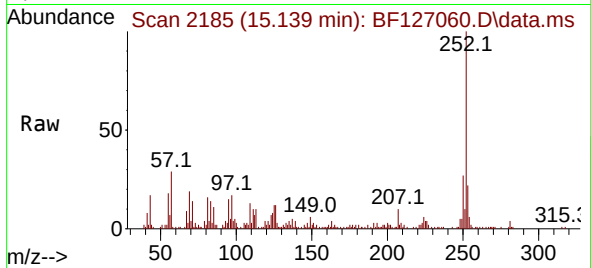




#88  
Benzo(b)fluoranthene  
Concen: 5.207 ng  
RT: 15.139 min Scan# 2190  
Delta R.T. -0.006 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

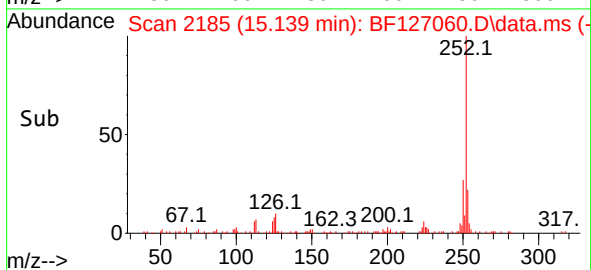
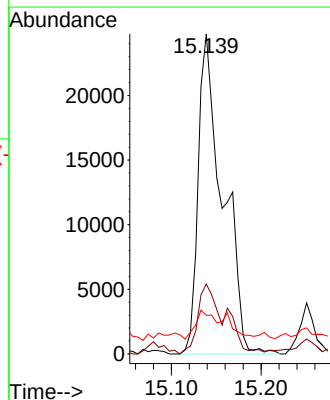
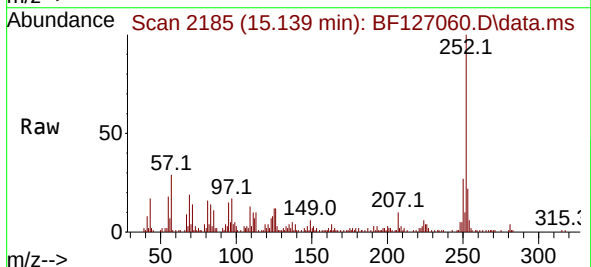
Instrument :  
BNA\_F  
ClientSampleId :  
RO-124042DL

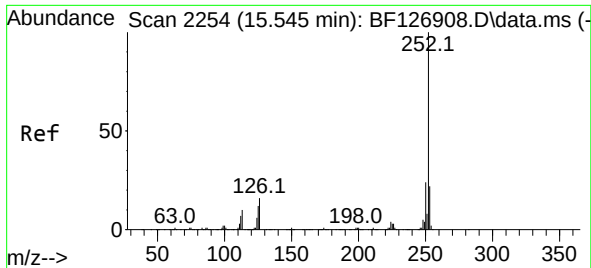
Tgt Ion:252 Resp: 46814  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.8 26.8  
125 12.1 12.4 18.6#



#89  
Benzo(k)fluoranthene  
Concen: 5.399 ng  
RT: 15.139 min Scan# 2185  
Delta R.T. -0.035 min  
Lab File: BF127060.D  
Acq: 24 Feb 2022 16:36

Tgt Ion:252 Resp: 46814  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.5 26.3  
125 12.1 11.8 17.6





#90

Benzo(a)pyrene

Concen: 2.613 ng

RT: 15.515 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF127060.D

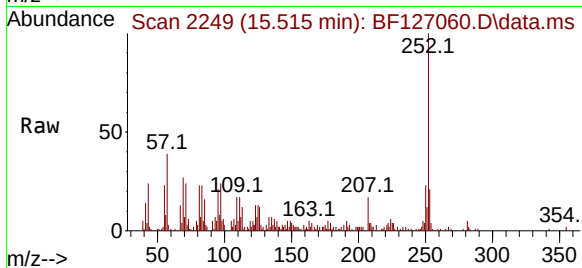
Acq: 24 Feb 2022 16:36

Instrument :

BNA\_F

ClientSampleId :

RO-124042DL



Tgt Ion:252 Resp: 18347

Ion Ratio Lower Upper

252 100

253 21.0 17.1 25.7

125 13.5 13.0 19.6

