

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031822\  
 Data File : BF127408.D  
 Acq On : 18 Mar 2022 23:15  
 Operator : CG\JU  
 Sample : N1983-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 124019

Manual Integrations  
 APPROVED

Reviewed By :Christian  
 Giraldo

Quant Time: Mar 19 01:54:02 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031022.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 19 01:50:04 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |                                  |
|-------------------------------|--------|------|----------|---------|-------|----------|----------------------------------|
| Internal Standards            |        |      |          |         |       |          | 03/21/2022                       |
| 1) 1,4-Dichlorobenzene-d4     | 6.857  | 152  | 34975    | 20.000  | ng    | 0.00     | Supervised By :Jagrut<br>padhyay |
| 21) Naphthalene-d8            | 8.139  | 136  | 127252   | 20.000  | ng    | # 0.00   |                                  |
| 39) Acenaphthene-d10          | 9.898  | 164  | 98181    | 20.000  | ng    | 0.00     |                                  |
| 64) Phenanthrene-d10          | 11.386 | 188  | 165331   | 20.000  | ng    | # 0.00   |                                  |
| 76) Chrysene-d12              | 14.033 | 240  | 112137   | 20.000  | ng    | #-0.01   |                                  |
| 86) Perylene-d12              | 15.515 | 264  | 101283   | 20.000  | ng    | 0.00     | 03/21/2022                       |
| System Monitoring Compounds   |        |      |          |         |       |          |                                  |
| 5) 2-Fluorophenol             | 5.475  | 112  | 256922   | 118.089 | ng    | 0.00     |                                  |
| 7) Phenol-d6                  | 6.487  | 99   | 261269   | 87.295  | ng    | -0.01    |                                  |
| 23) Nitrobenzene-d5           | 7.422  | 82   | 176257   | 57.202  | ng    | -0.01    |                                  |
| 42) 2,4,6-Tribromophenol      | 10.692 | 330  | 107251   | 101.476 | ng    | 0.00     |                                  |
| 45) 2-Fluorobiphenyl          | 9.216  | 172  | 343024   | 49.395  | ng    | 0.00     |                                  |
| 79) Terphenyl-d14             | 12.974 | 244  | 555150   | 85.247  | ng    | 0.00     |                                  |
| Target Compounds              |        |      |          |         |       |          | Qvalue                           |
| 31) Naphthalene               | 8.157  | 128  | 72940    | 10.745  | ng    |          | 98                               |
| 37) 2-Methylnaphthalene       | 8.851  | 142  | 89672    | 20.217  | ng    |          | 98                               |
| 38) 1-Methylnaphthalene       | 8.951  | 142  | 54960    | 12.889  | ng    |          | 99                               |
| 46) 1,1'-Biphenyl             | 9.316  | 154  | 38575    | 5.206   | ng    |          | 97                               |
| 52) Acenaphthene              | 9.927  | 154  | 202713   | 38.525  | ng    |          | 94                               |
| 55) Dibenzofuran              | 10.104 | 168  | 255923   | 31.307  | ng    |          | 99                               |
| 58) Fluorene                  | 10.445 | 166  | 234207   | 36.949  | ng    |          | 99                               |
| 71) Phenanthrene              | 11.422 | 178  | 871945   | 99.906  | ng    |          | 99                               |
| 72) Anthracene                | 11.463 | 178  | 116756   | 13.508  | ng    |          | 100                              |
| 73) Carbazole                 | 11.621 | 167  | 52539    | 6.455   | ng    |          | 98                               |
| 75) Fluoranthene              | 12.604 | 202  | 418933   | 42.930  | ng    |          | 90                               |
| 78) Pyrene                    | 12.833 | 202  | 298741   | 34.203  | ng    |          | 100                              |
| 81) Benzo(a)anthracene        | 14.021 | 228  | 43273    | 5.731   | ng    |          | 96                               |
| 83) Chrysene                  | 14.057 | 228  | 36536m   | 5.203   | ng    |          |                                  |
| 84) Bis(2-ethylhexyl)phtha... | 13.998 | 149  | 9427     | 2.083   | ng    | #        | 95                               |
| 88) Benzo(b)fluoranthene      | 15.080 | 252  | 25538m   | 3.841   | ng    |          |                                  |
| 90) Benzo(a)pyrene            | 15.457 | 252  | 14683    | 2.805   | ng    | #        | 88                               |

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

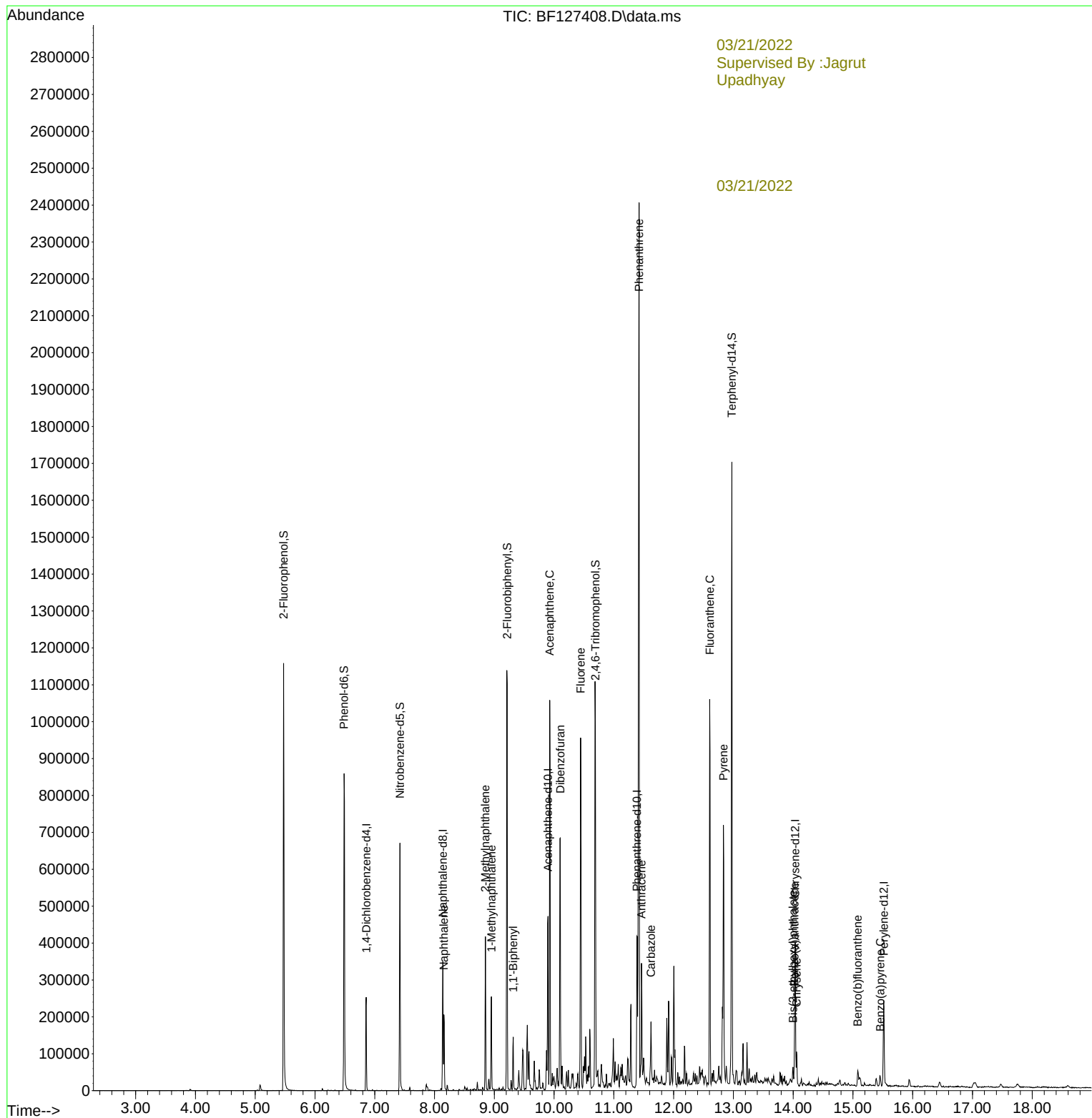
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF031822\  
Data File : BF127408.D  
Acq On : 18 Mar 2022 23:15  
Operator : CG\JU  
Sample : N1983-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

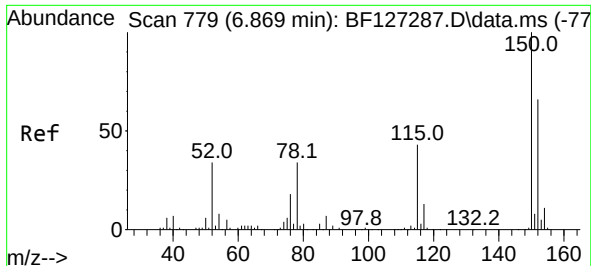
Instrument :  
BNA\_F  
ClientSampleId :  
124019

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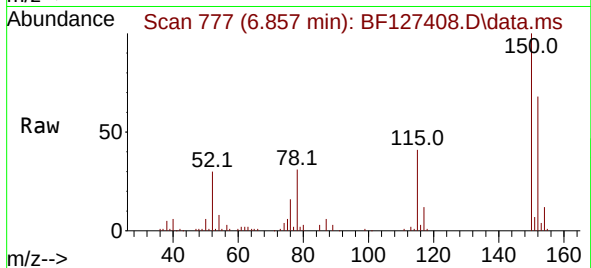
Quant Time: Mar 19 01:54:02 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031022.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 19 01:50:04 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.857 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

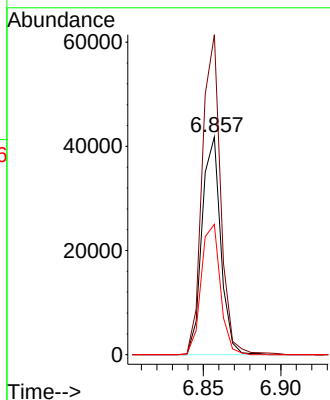
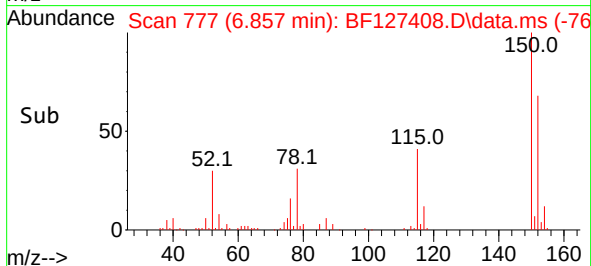
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:152 Resp: 3497  
Ion Ratio Lower Upper  
152 100  
150 147.0 128.1 192.1  
115 59.9 56.7 85.1

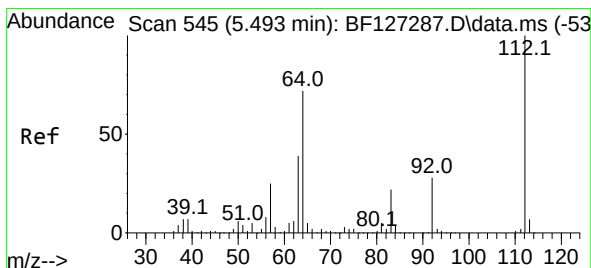
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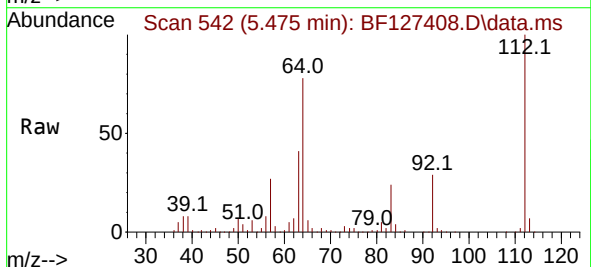


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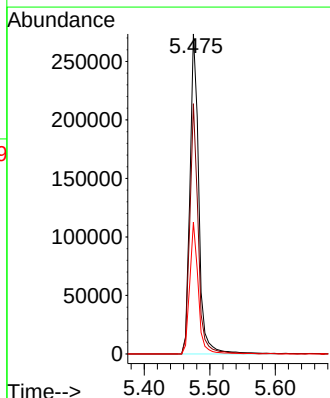
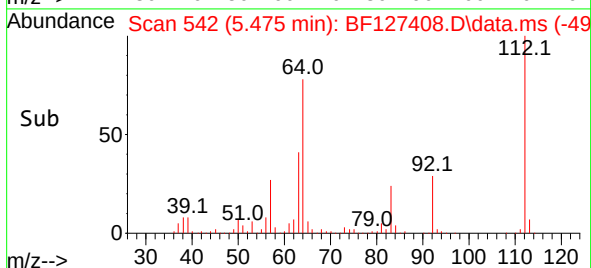
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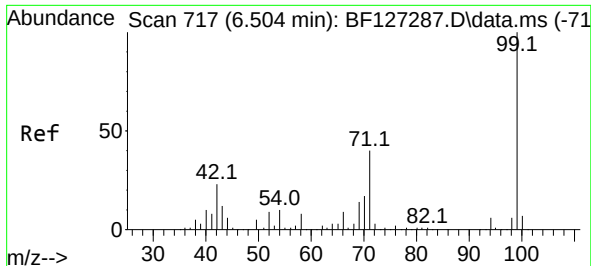


#5  
2-Fluorophenol  
Concen: 118.089 ng  
RT: 5.475 min Scan# 542  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



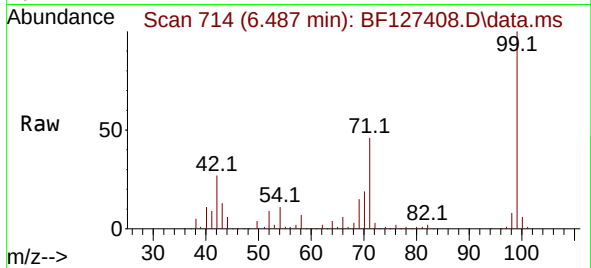
Tgt Ion:112 Resp: 256922  
Ion Ratio Lower Upper  
112 100  
64 78.2 49.5 74.3#  
63 41.2 23.9 35.9#





#7  
Phenol-d6  
Concen: 87.295 ng  
RT: 6.487 min Scan# 714  
Delta R.T. -0.012 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

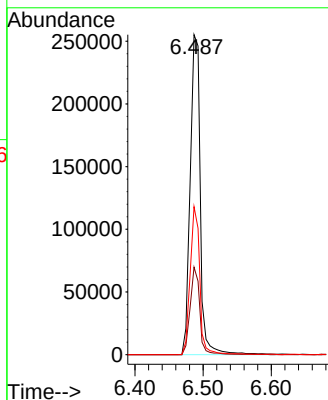
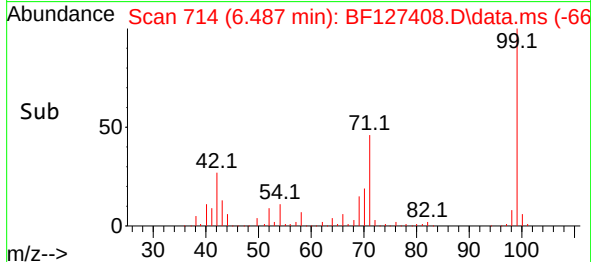
Instrument :  
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ClientSampleId :  
124019



Tgt Ion: 99 Resp: 261269  
Ion Ratio Lower Upper  
99 100  
42 27.3 14.2 21.4  
71 46.3 24.3 36.5

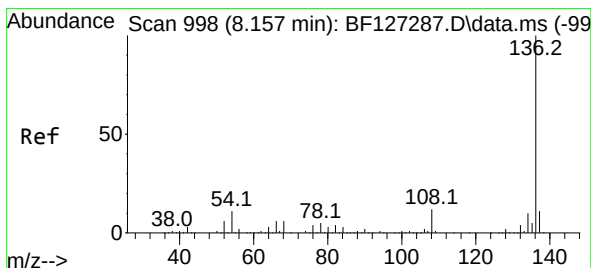
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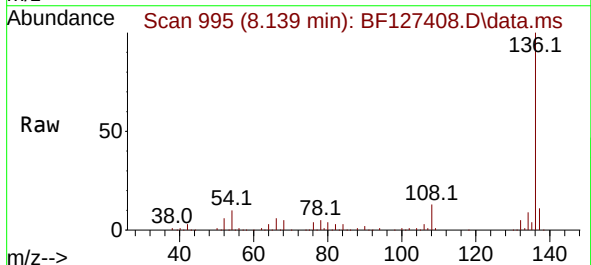


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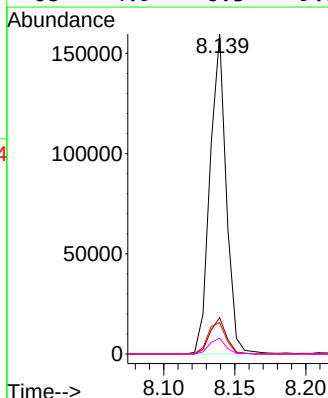
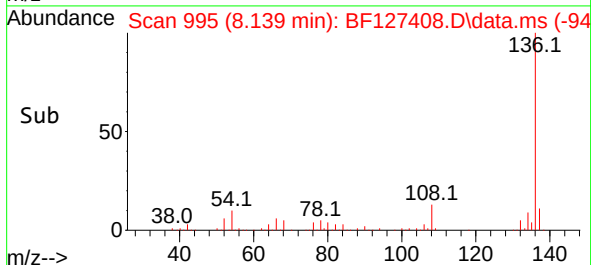
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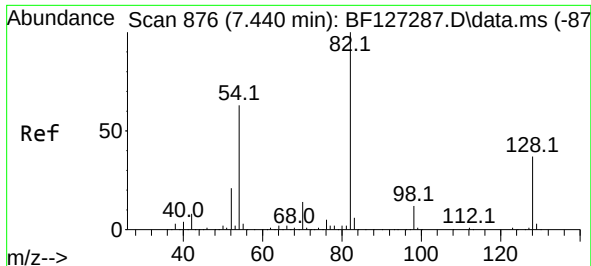


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.139 min Scan# 995  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



Tgt Ion:136 Resp: 127252  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.6 13.0  
54 9.8 7.8 11.6  
68 4.9 6.3 9.5





#23

Nitrobenzene-d5

Concen: 57.202 ng

RT: 7.422 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF127408.D

Acq: 18 Mar 2022 23:15

Instrument :

BNA\_F

ClientSampleId :

124019

Tgt Ion: 82 Resp: 17625

Ion Ratio Lower Upper

82 100

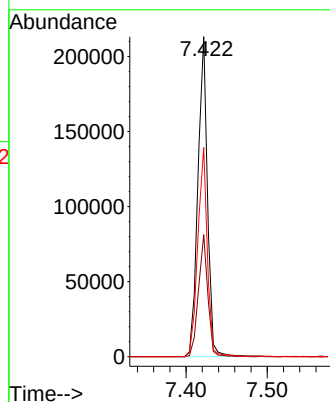
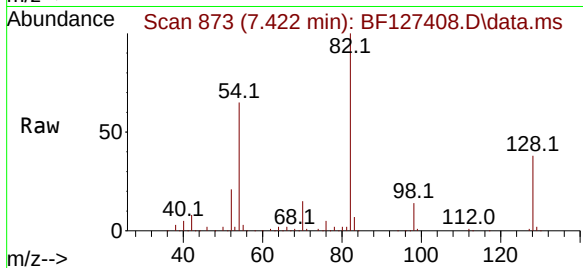
128 38.1 32.7 49.1

54 65.4 41.7 62.5

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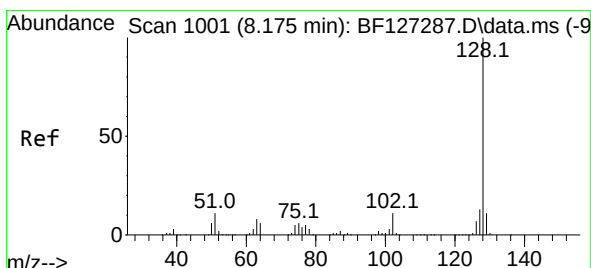
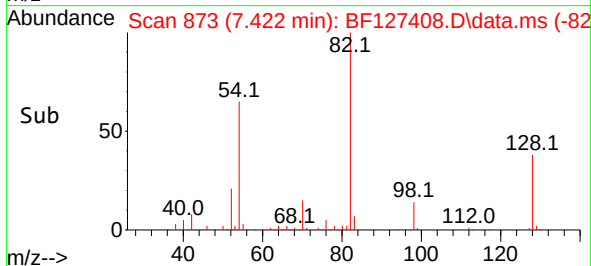
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#31

Naphthalene

Concen: 10.745 ng

RT: 8.157 min Scan# 998

Delta R.T. -0.012 min

Lab File: BF127408.D

Acq: 18 Mar 2022 23:15

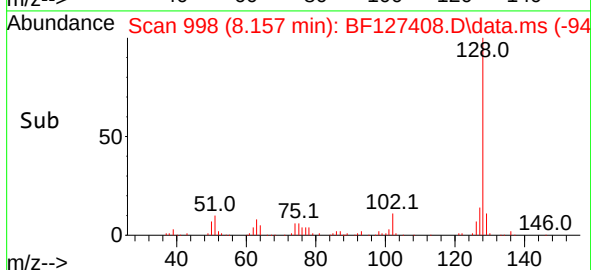
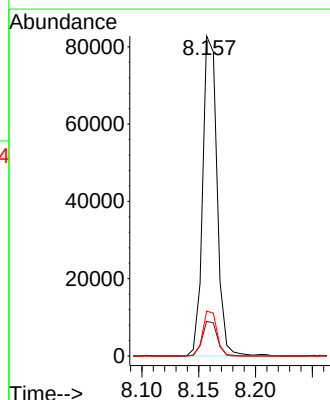
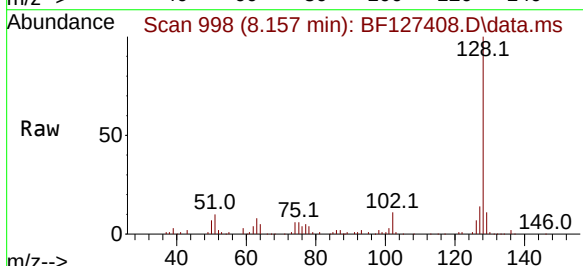
Tgt Ion:128 Resp: 72940

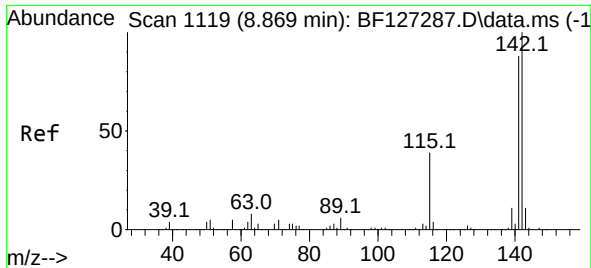
Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

127 14.0 10.3 15.5





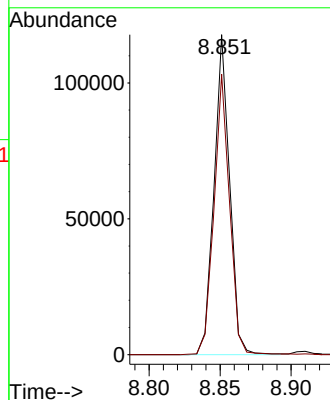
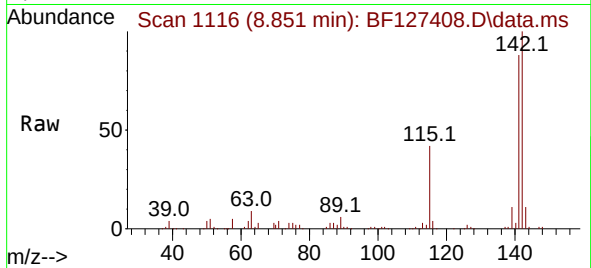
#37  
2-Methylnaphthalene  
Concen: 20.217 ng  
RT: 8.851 min Scan# 1116  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

Instrument :  
BNA\_F  
ClientSampleId :  
124019

Tgt Ion:142 Resp: 89672  
Ion Ratio Lower Upper  
142 100  
141 87.6 68.6 102.8

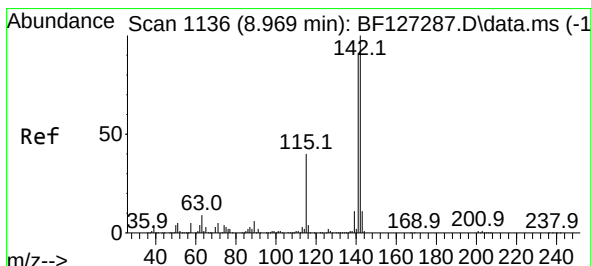
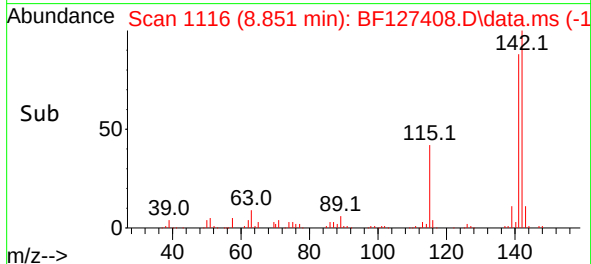
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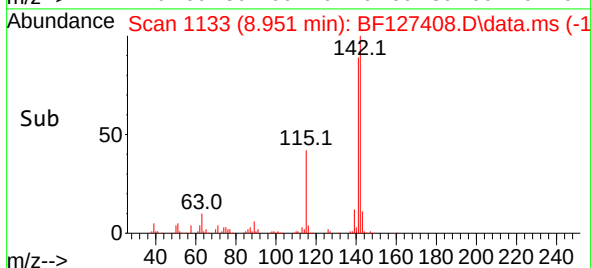
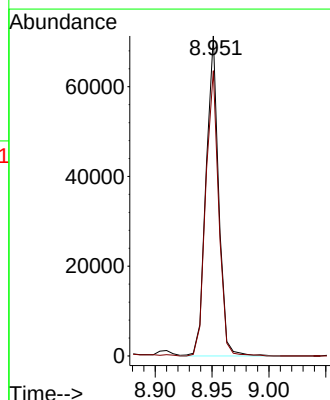
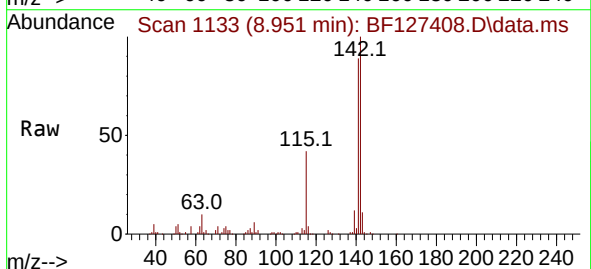
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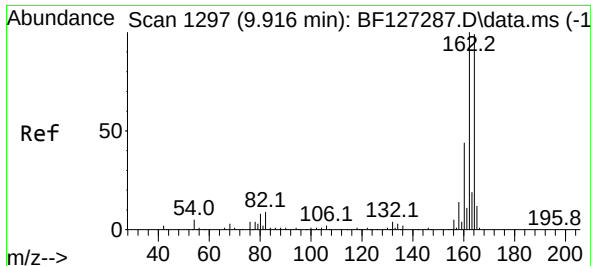
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#38  
1-Methylnaphthalene  
Concen: 12.889 ng  
RT: 8.951 min Scan# 1133  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

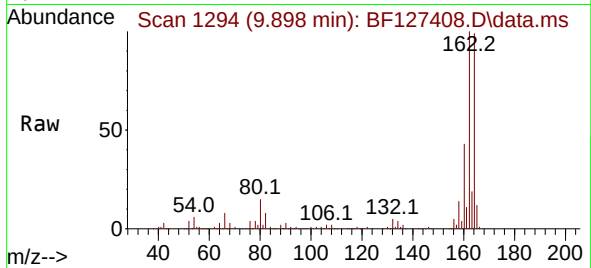
Tgt Ion:142 Resp: 54960  
Ion Ratio Lower Upper  
142 100  
141 89.2 72.1 108.1





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.898 min Scan# 1294  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

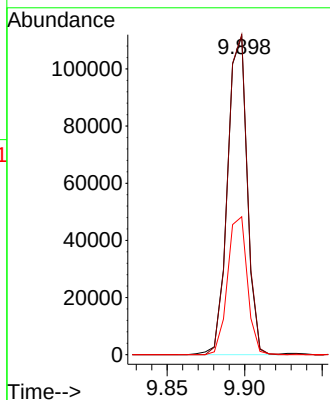
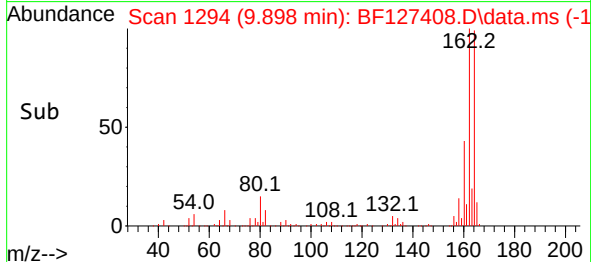
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:164 Resp: 9818  
Ion Ratio Lower Upper  
164 100  
162 100.5 81.4 122.0  
160 43.3 36.6 54.8

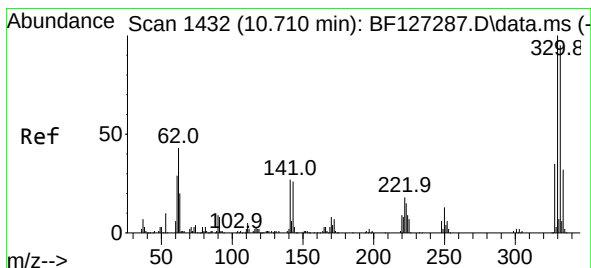
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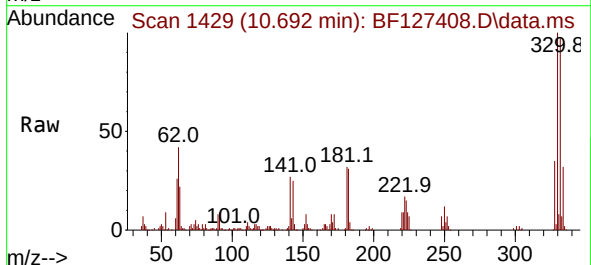


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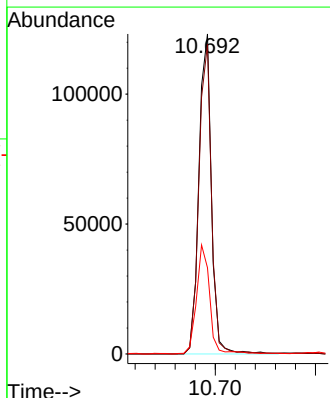
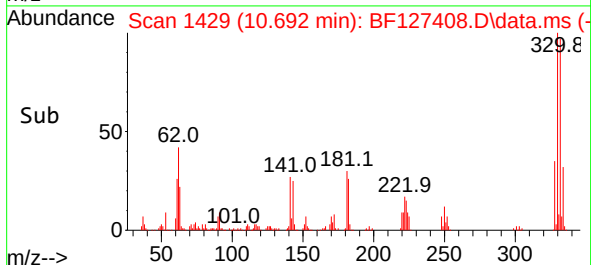
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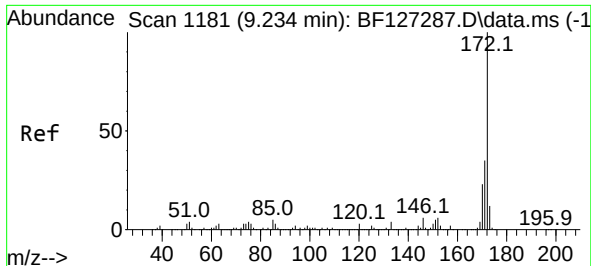


#42  
2,4,6-Tribromophenol  
Concen: 101.476 ng  
RT: 10.692 min Scan# 1429  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



Tgt Ion:330 Resp: 107251  
Ion Ratio Lower Upper  
330 100  
332 97.8 76.0 114.0  
141 36.1 30.1 45.1





#45

2-Fluorobiphenyl

Concen: 49.395 ng

RT: 9.216 min Scan# 1181

Delta R.T. -0.006 min

Lab File: BF127408.D

Acq: 18 Mar 2022 23:15

Instrument :

BNA\_F

ClientSampleId :

124019

Tgt Ion:172 Resp: 343024

Ion Ratio Lower Upper

172 100

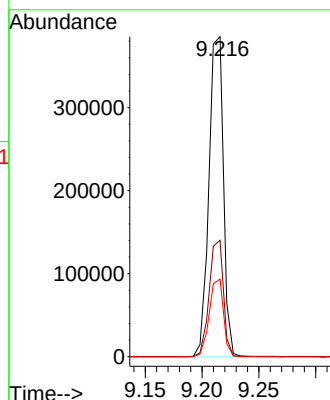
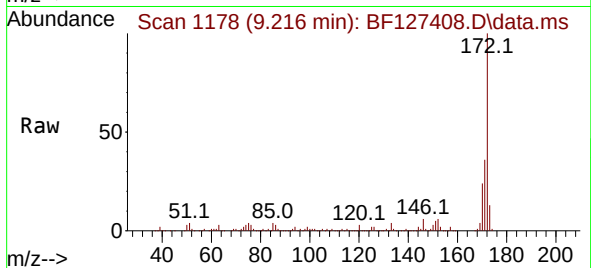
171 36.3 28.3 42.5

170 24.2 19.0 28.6

Manual Integrations

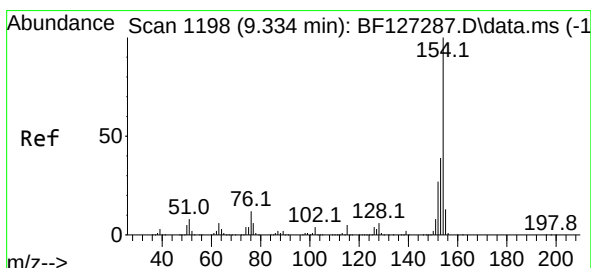
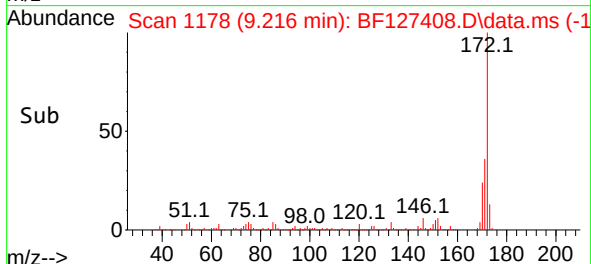
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Giraldo



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Supervised By :Jagrut  
Upadhyay

03/21/2022



#46

1,1'-Biphenyl

Concen: 5.206 ng

RT: 9.316 min Scan# 1195

Delta R.T. -0.006 min

Lab File: BF127408.D

Acq: 18 Mar 2022 23:15

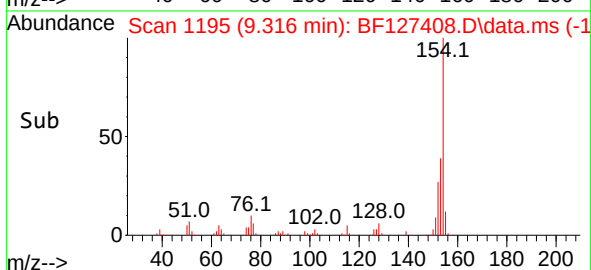
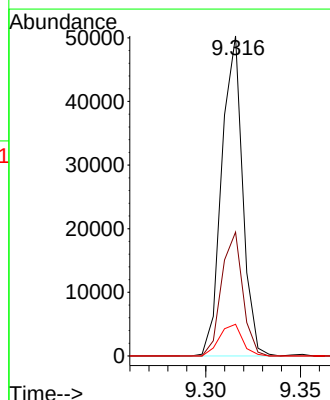
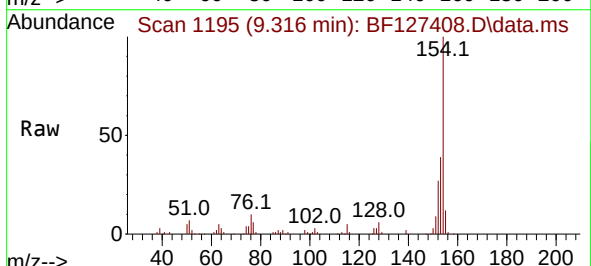
Tgt Ion:154 Resp: 38575

Ion Ratio Lower Upper

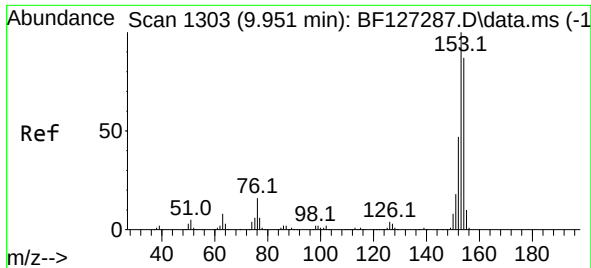
154 100

153 38.7 19.0 59.0

76 9.9 0.0 34.5

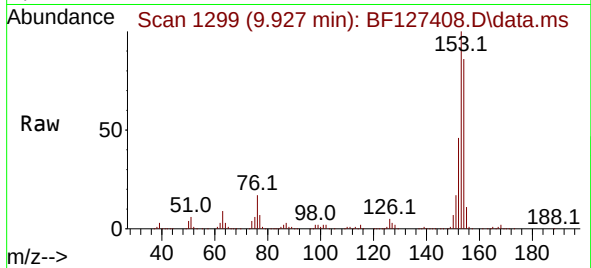






#52  
Acenaphthene  
Concen: 38.525 ng  
RT: 9.927 min Scan# 1299  
Delta R.T. -0.012 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

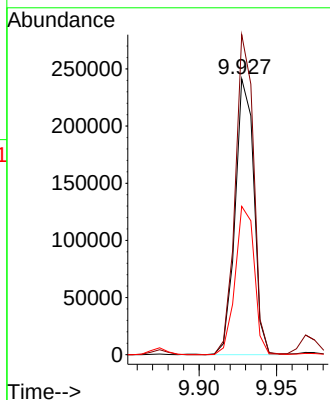
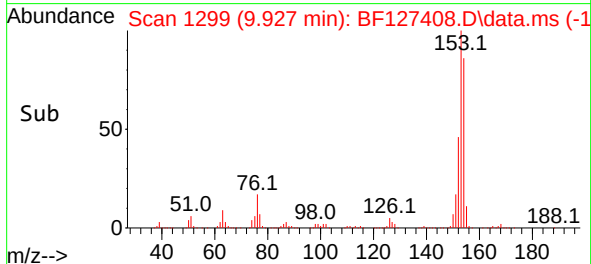
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:154 Resp: 20271  
Ion Ratio Lower Upper  
154 100  
153 116.0 87.8 131.6  
152 53.8 39.4 59.2

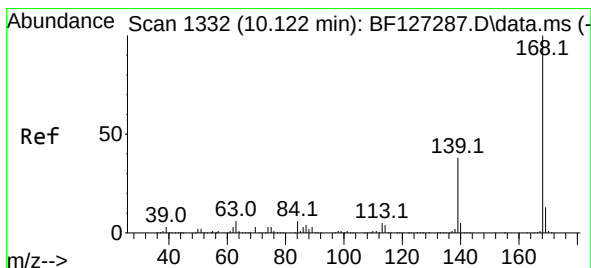
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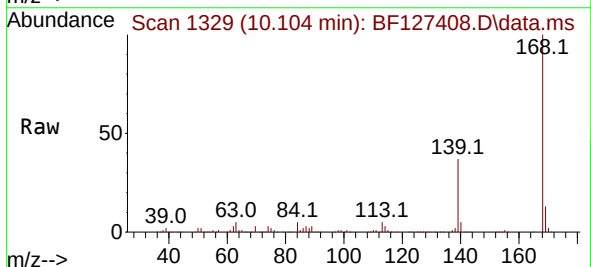


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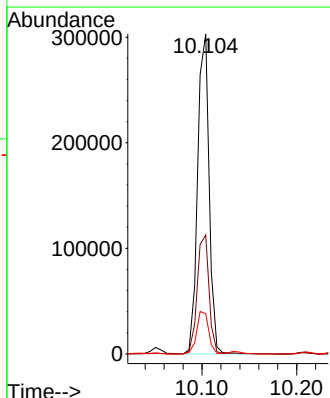
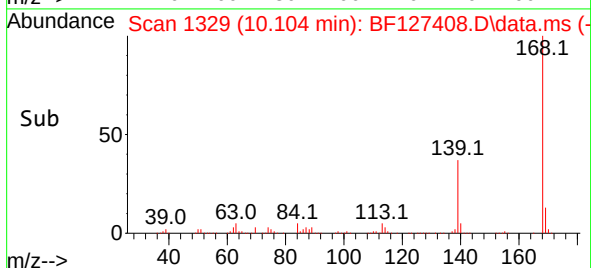
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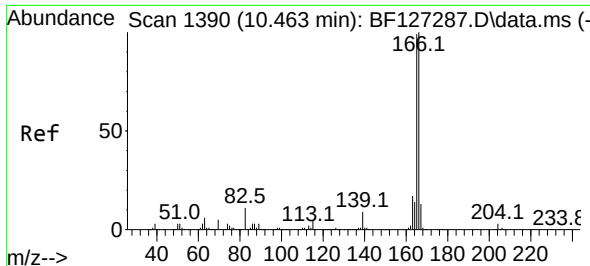


#55  
Dibenzofuran  
Concen: 31.307 ng  
RT: 10.104 min Scan# 1329  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



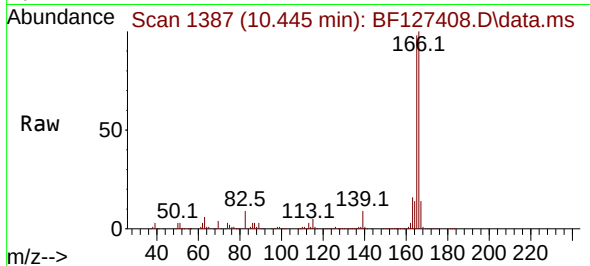
Tgt Ion:168 Resp: 255923  
Ion Ratio Lower Upper  
168 100  
139 37.2 30.6 46.0  
169 12.6 10.0 15.0





#58  
Fluorene  
Concen: 36.949 ng  
RT: 10.445 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

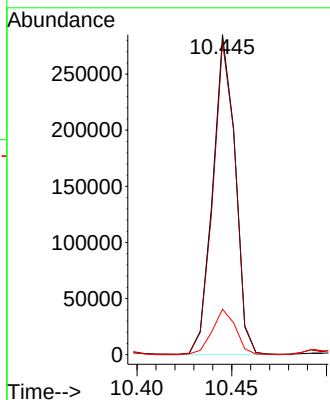
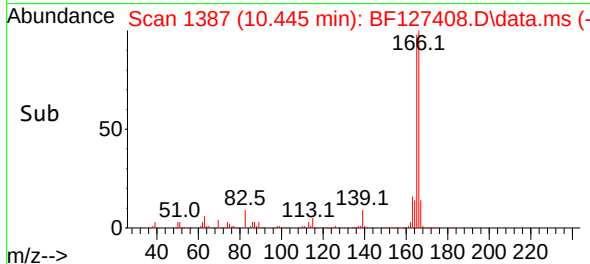
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:166 Resp: 23420  
Ion Ratio Lower Upper  
166 100  
165 97.8 77.7 116.5  
167 14.2 10.7 16.1

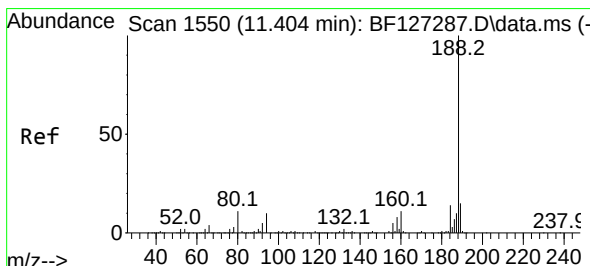
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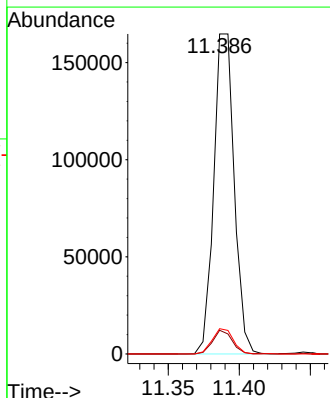
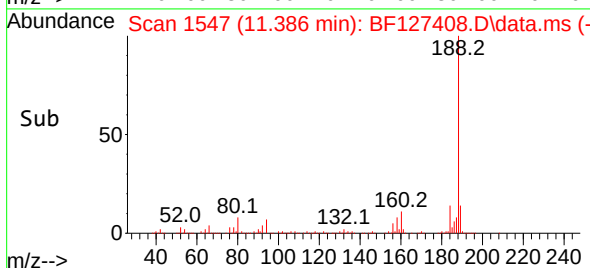
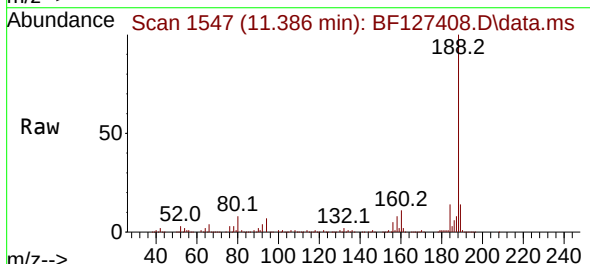
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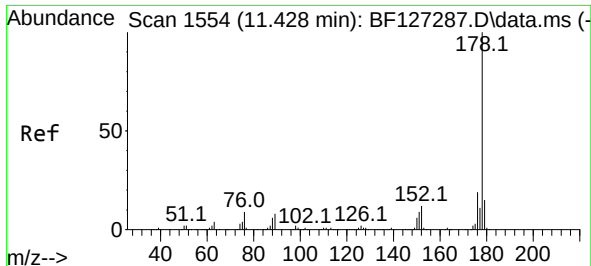
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.386 min Scan# 1547  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

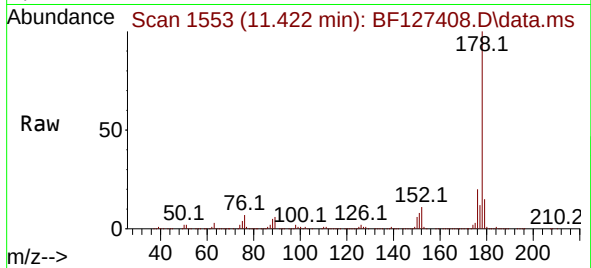
Tgt Ion:188 Resp: 165331  
Ion Ratio Lower Upper  
188 100  
94 7.4 10.1 15.1#  
80 7.9 11.8 17.6#





#71  
Phenanthrene  
Concen: 99.906 ng  
RT: 11.422 min Scan# 1554  
Delta R.T. -0.000 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

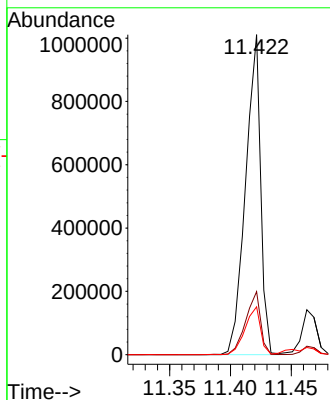
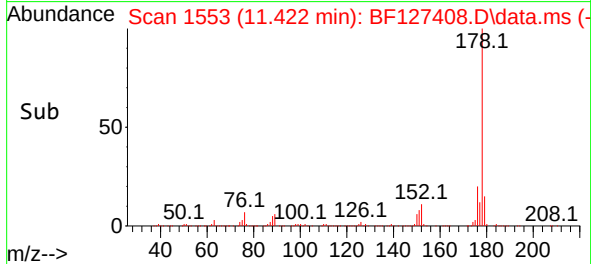
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:178 Resp: 871945  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.7 23.5  
179 15.0 12.3 18.5

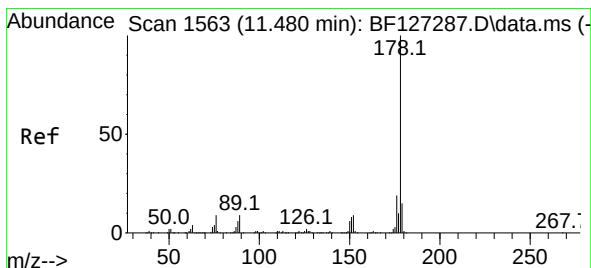
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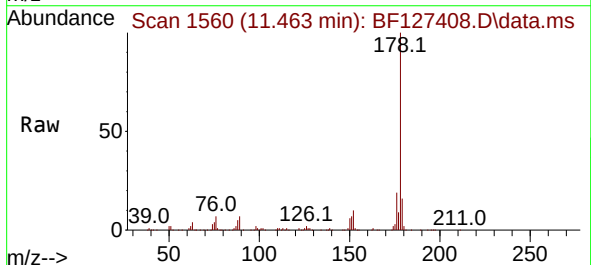


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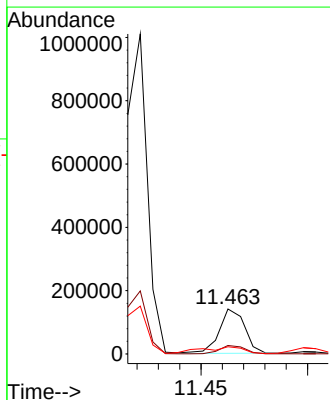
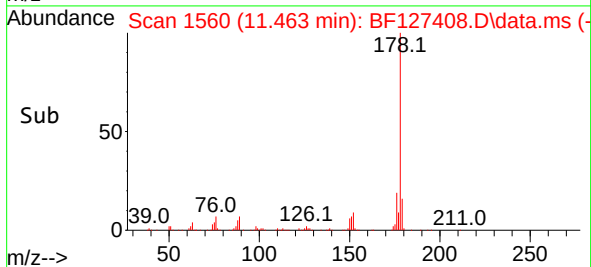
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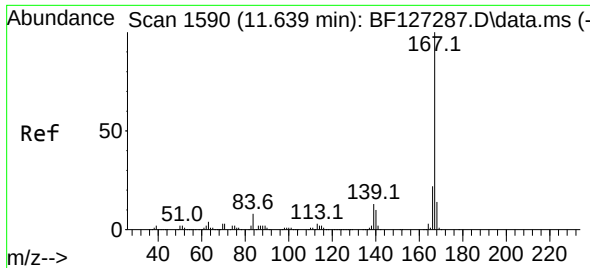


#72  
Anthracene  
Concen: 13.508 ng  
RT: 11.463 min Scan# 1560  
Delta R.T. -0.012 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



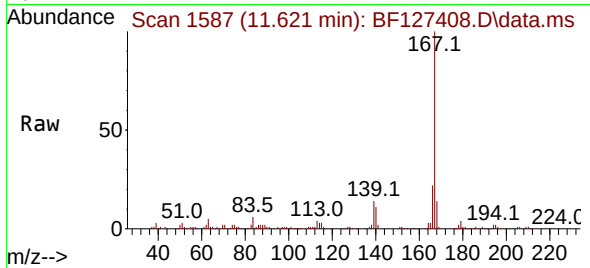
Tgt Ion:178 Resp: 116756  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 16.0 12.5 18.7





#73  
 Carbazole  
 Concen: 6.455 ng  
 RT: 11.621 min Scan# 1587  
 Delta R.T. -0.006 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15

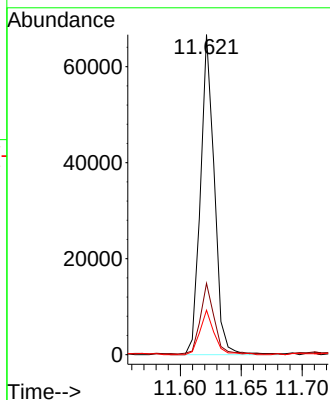
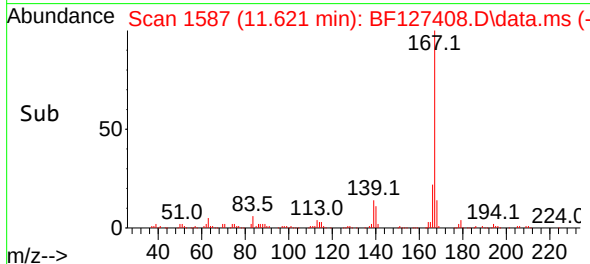
Instrument :  
 BNA\_F  
 ClientSampleId :  
 124019



Tgt Ion:167 Resp: 52539  
 Ion Ratio Lower Upper  
 167 100  
 166 22.3 16.9 25.3  
 139 13.9 11.3 16.9

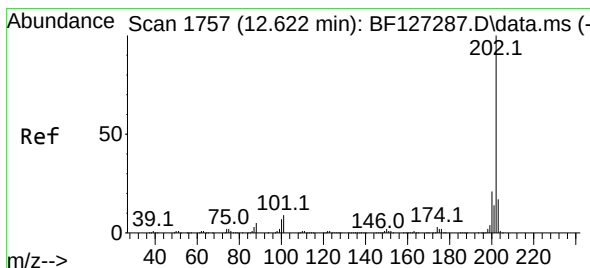
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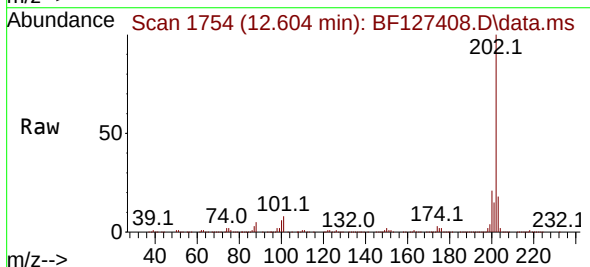


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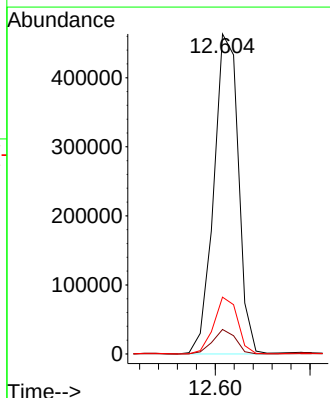
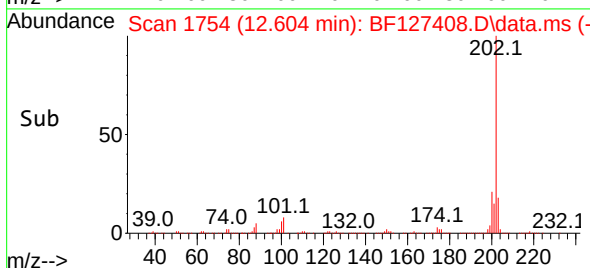
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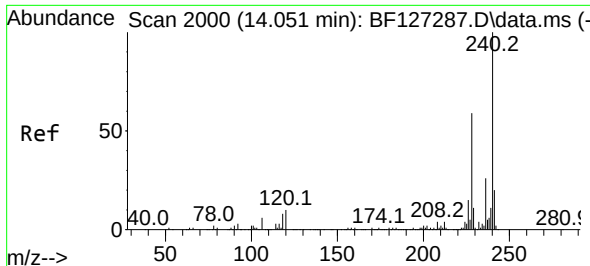


#75  
 Fluoranthene  
 Concen: 42.930 ng  
 RT: 12.604 min Scan# 1754  
 Delta R.T. -0.006 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15



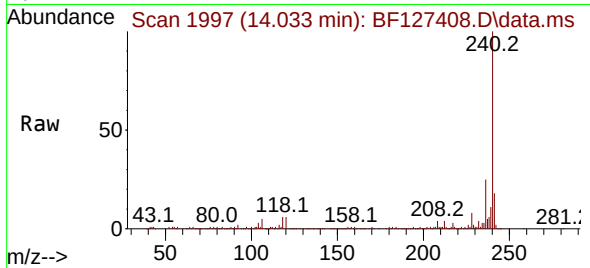
Tgt Ion:202 Resp: 418933  
 Ion Ratio Lower Upper  
 202 100  
 101 7.7 0.0 35.7  
 203 17.8 0.0 37.1





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.033 min Scan# 1997  
Delta R.T. -0.012 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

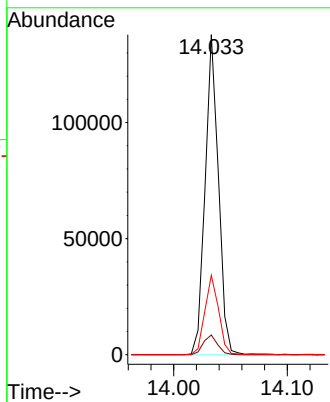
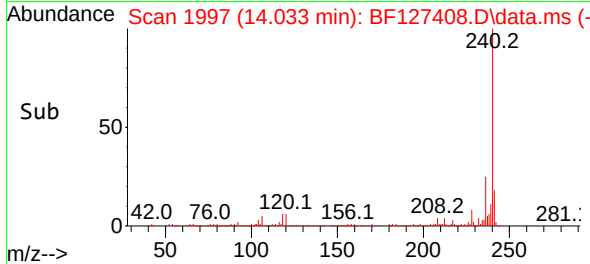
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:240 Resp: 11213  
Ion Ratio Lower Upper  
240 100  
120 6.1 14.4 21.6  
236 24.8 20.5 30.7

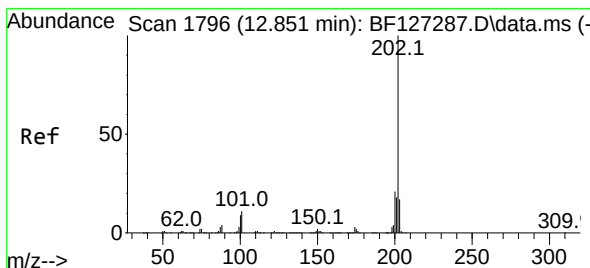
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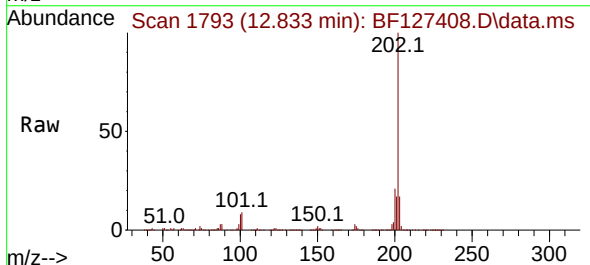


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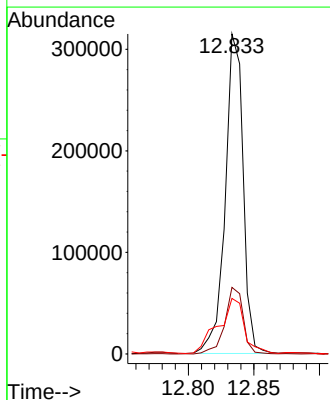
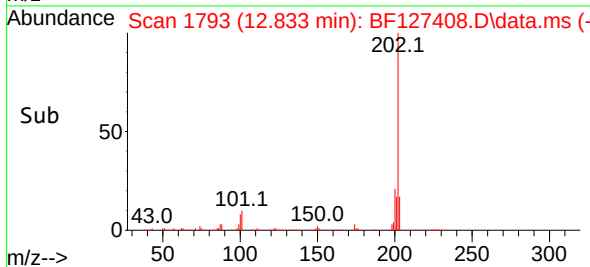
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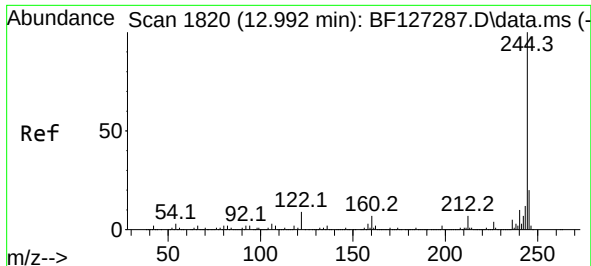


#78  
Pyrene  
Concen: 34.203 ng  
RT: 12.833 min Scan# 1793  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15



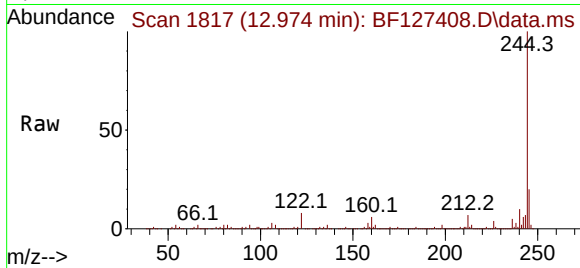
Tgt Ion:202 Resp: 298741  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.6 24.8  
203 17.4 13.8 20.8





#79  
 Terphenyl-d14  
 Concen: 85.247 ng  
 RT: 12.974 min Scan# 1817  
 Delta R.T. -0.006 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15

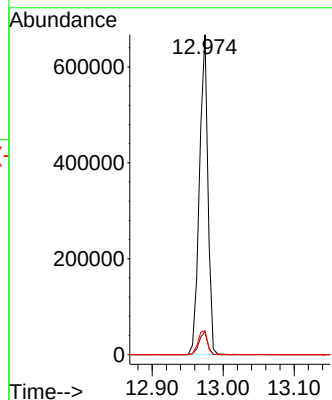
Instrument :  
 BNA\_F  
 ClientSampleId :  
 124019



Tgt Ion:244 Resp: 555150  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.0 7.4  
 122 7.5 13.3 19.9

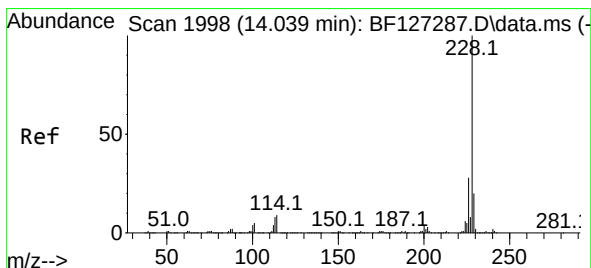
Manual Integrations  
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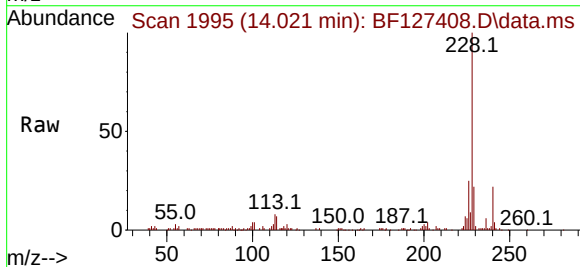


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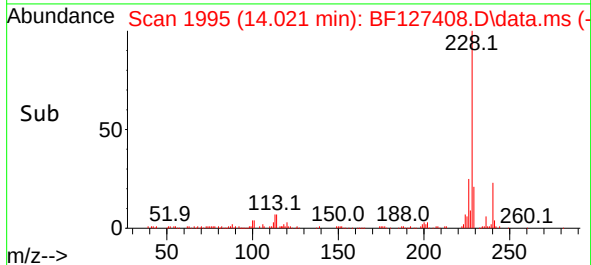
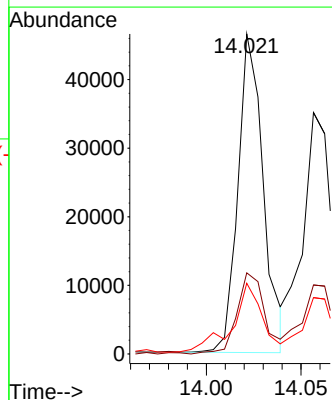
03/21/2022

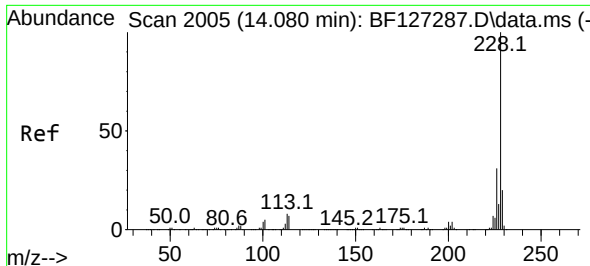


#81  
 Benzo(a)anthracene  
 Concen: 5.731 ng  
 RT: 14.021 min Scan# 1995  
 Delta R.T. -0.012 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15



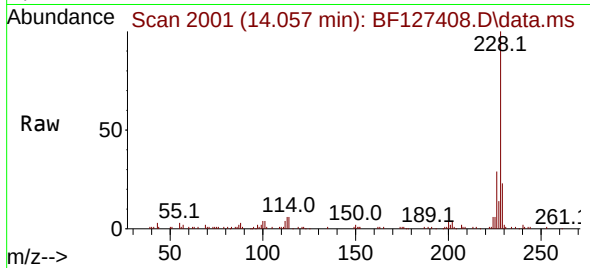
Tgt Ion:228 Resp: 43273  
 Ion Ratio Lower Upper  
 228 100  
 226 25.4 21.4 32.0  
 229 22.1 15.4 23.2





#83  
Chrysene  
Concen: 5.203 ng m  
RT: 14.057 min Scan# 2005  
Delta R.T. -0.012 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

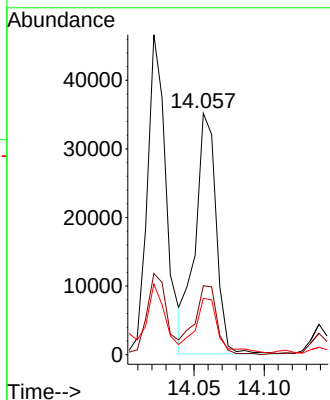
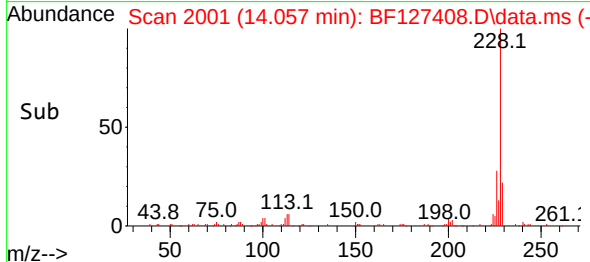
Instrument :  
BNA\_F  
ClientSampleId :  
124019



Tgt Ion:228 Resp: 36530  
Ion Ratio Lower Upper  
228 100  
226 28.6 23.7 35.5  
229 23.3 15.5 23.3

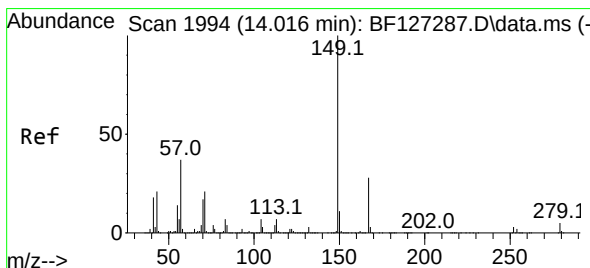
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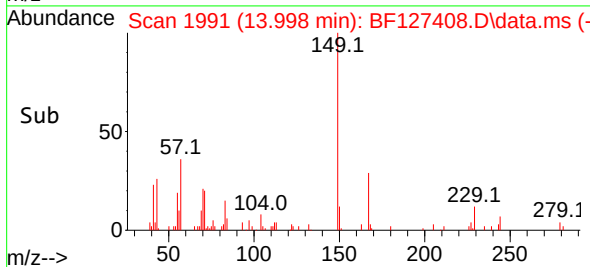
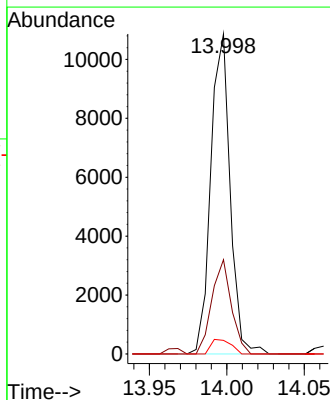
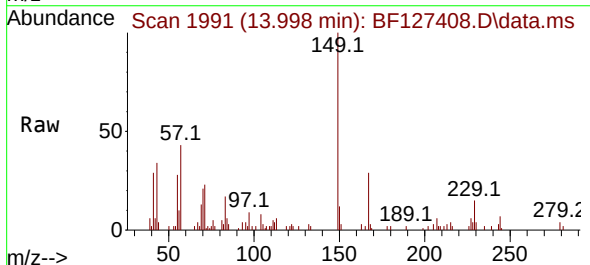
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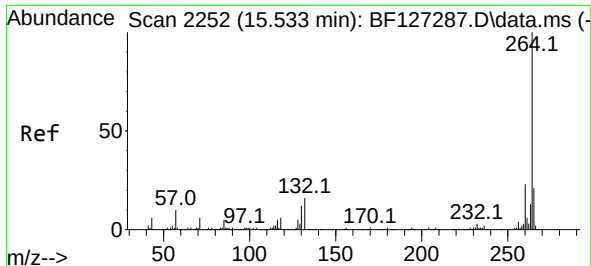
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#84  
Bis(2-ethylhexyl)phthalate  
Concen: 2.083 ng  
RT: 13.998 min Scan# 1991  
Delta R.T. -0.006 min  
Lab File: BF127408.D  
Acq: 18 Mar 2022 23:15

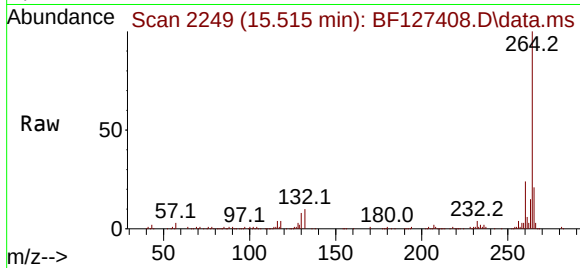
Tgt Ion:149 Resp: 9427  
Ion Ratio Lower Upper  
149 100  
167 29.4 21.4 32.2  
279 4.3 2.4 3.6





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.515 min Scan# 2175  
 Delta R.T. -0.006 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15

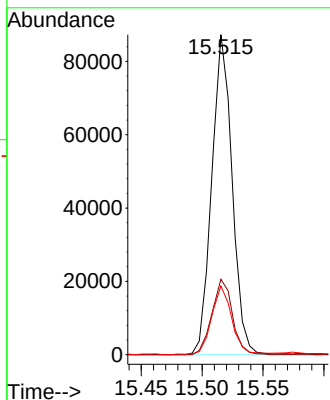
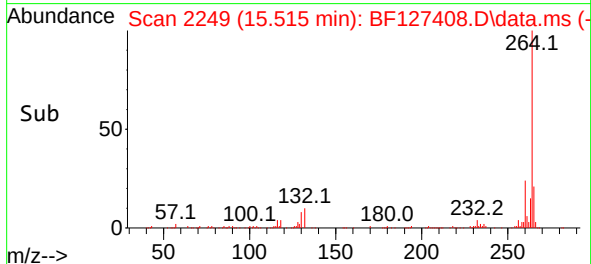
Instrument :  
 BNA\_F  
 ClientSampleId :  
 124019



Tgt Ion:264 Resp: 10128  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.2 28.8  
 265 21.4 17.4 26.2

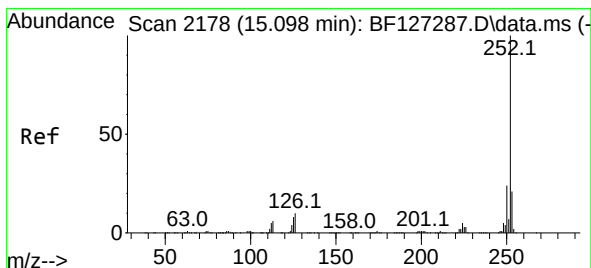
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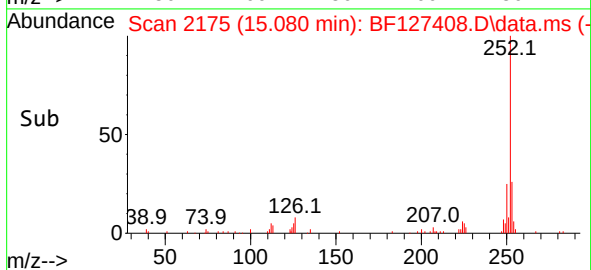
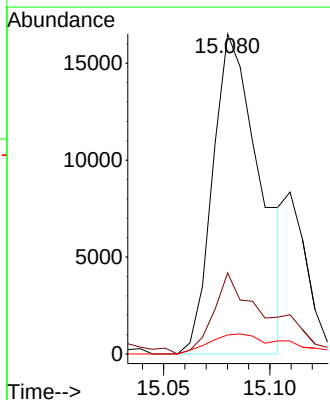
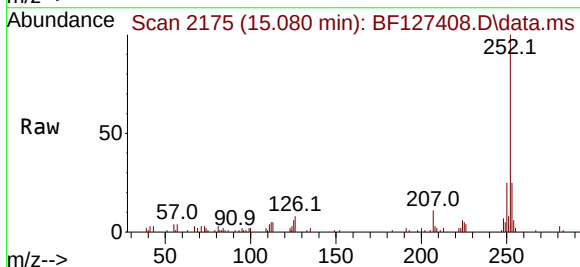
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 Upadhyay

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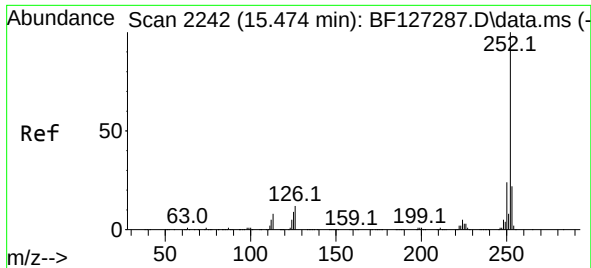


#88  
 Benzo(b)fluoranthene  
 Concen: 3.841 ng m  
 RT: 15.080 min Scan# 2175  
 Delta R.T. -0.006 min  
 Lab File: BF127408.D  
 Acq: 18 Mar 2022 23:15

Tgt Ion:252 Resp: 25538  
 Ion Ratio Lower Upper  
 252 100  
 253 25.3 17.8 26.8  
 125 6.0 12.4 18.6#







#90

Benzo(a)pyrene

Concen: 2.805 ng

RT: 15.457 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF127408.D

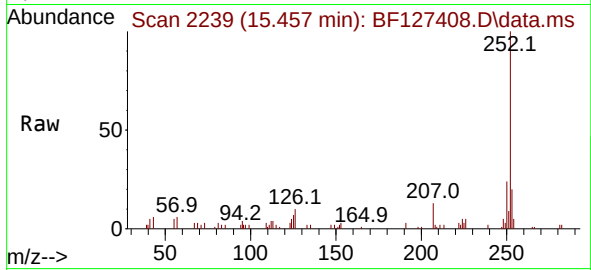
Acq: 18 Mar 2022 23:15

Instrument :

BNA\_F

ClientSampleId :

124019



Tgt Ion:252 Resp: 1468

Ion Ratio Lower Upper

252 100

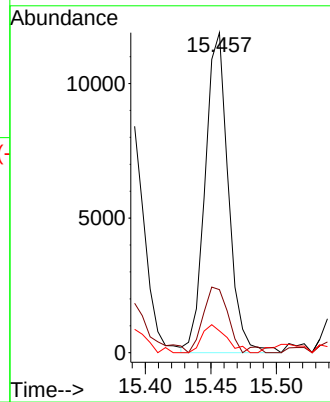
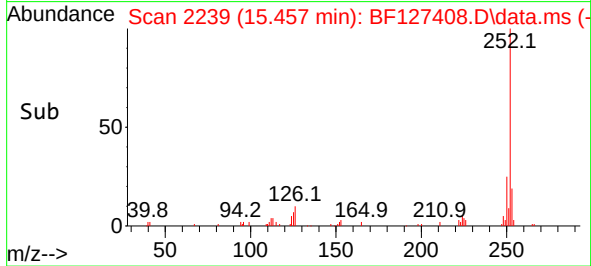
253 19.7 17.1 25.7

125 6.8 13.0 19.6

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