

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051322\  
 Data File : BF128244.D  
 Acq On : 13 May 2022 17:42  
 Operator : CG\JU  
 Sample : N2823-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SC-1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/16/2022  
 Supervised By : Jagrut Upadhyay 05/16/2022

Quant Time: May 14 00:56:31 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat May 14 00:51:21 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.881  | 152  | 56889    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.169  | 136  | 225129   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.922  | 164  | 126475   | 20.000  | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.416 | 188  | 214281   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.063 | 240  | 130967   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.557 | 264  | 136949   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.505  | 112  | 277689   | 77.814  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.510  | 99   | 372974   | 79.018  | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 7.446  | 82   | 263601   | 52.686  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 10.716 | 330  | 95474    | 65.821  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.240  | 172  | 452528   | 55.985  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.998 | 244  | 394426   | 56.511  | ng    | -0.01    |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 31) Naphthalene               | 8.187  | 128  | 27314    | 2.457   | ng    | 98       |
| 55) Dibenzofuran              | 10.128 | 168  | 29888    | 2.941   | ng    | 100      |
| 71) Phenanthrene              | 11.445 | 178  | 584078   | 54.741  | ng    | 99       |
| 72) Anthracene                | 11.492 | 178  | 104080   | 9.770   | ng    | 97       |
| 73) Carbazole                 | 11.651 | 167  | 162365   | 16.028  | ng    | 99       |
| 75) Fluoranthene              | 12.645 | 202  | 1266334  | 109.471 | ng    | 96       |
| 78) Pyrene                    | 12.869 | 202  | 783465   | 82.502  | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 325610   | 38.924  | ng    | 100      |
| 83) Chrysene                  | 14.092 | 228  | 293678   | 36.794  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 14.028 | 149  | 32510    | 6.095   | ng    | # 98     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.069 | 276  | 114823   | 13.860  | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 15.116 | 252  | 307894m  | 36.268  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.139 | 252  | 111601m  | 13.317  | ng    |          |
| 90) Benzo(a)pyrene            | 15.492 | 252  | 205377m  | 29.966  | ng    |          |
| 91) Dibenzo(a,h)anthracene    | 17.069 | 278  | 30308    | 4.519   | ng    | 94       |
| 92) Benzo(g,h,i)perylene      | 17.521 | 276  | 100076   | 14.737  | ng    | 97       |

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

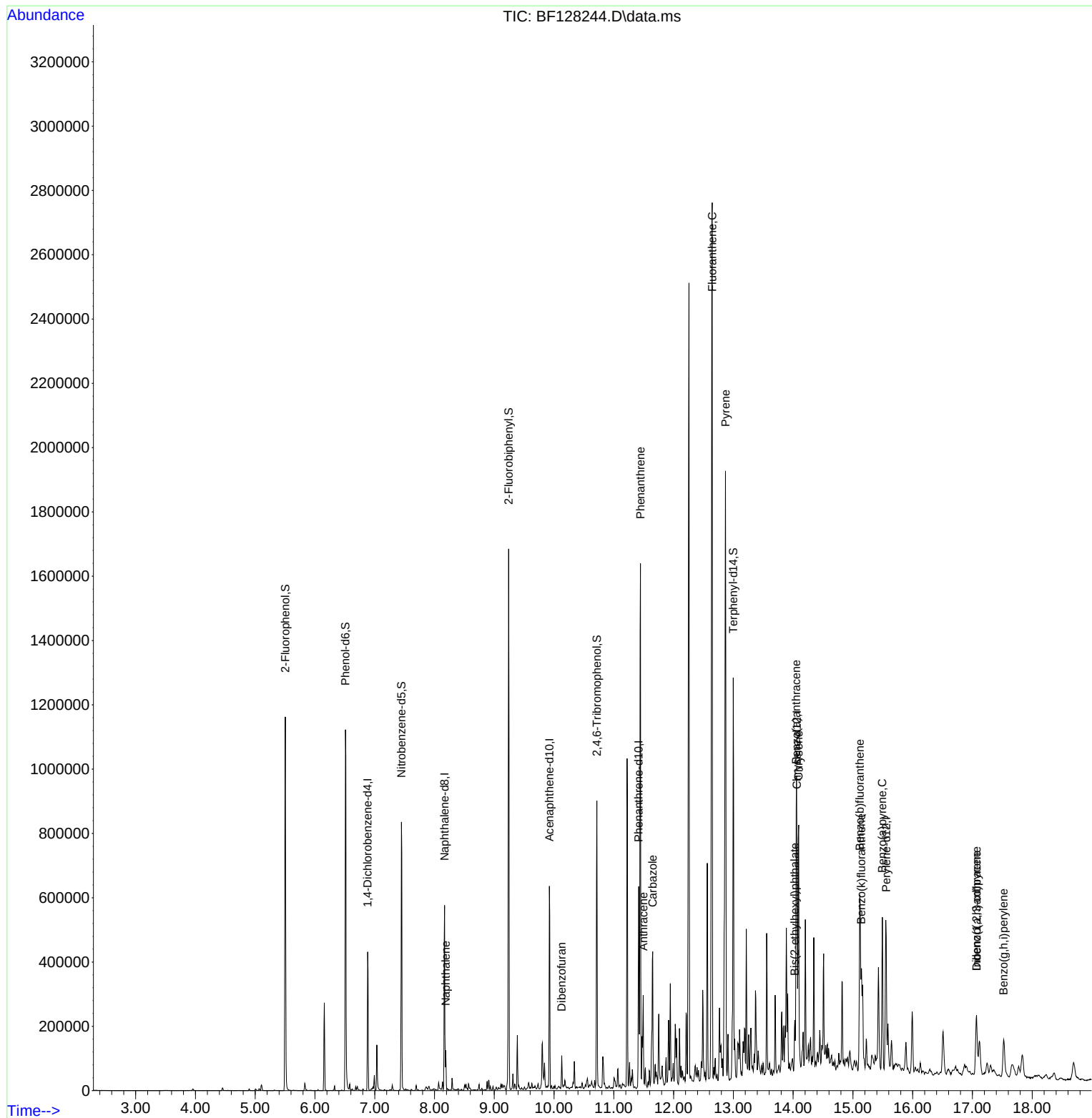
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051322\  
Data File : BF128244.D  
Acq On : 13 May 2022 17:42  
Operator : CG\JU  
Sample : N2823-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

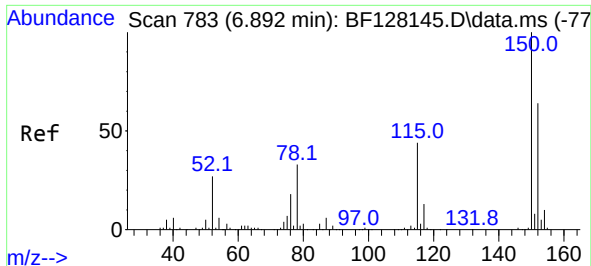
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1

Quant Time: May 14 00:56:31 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat May 14 00:51:21 2022  
Response via : Initial Calibration

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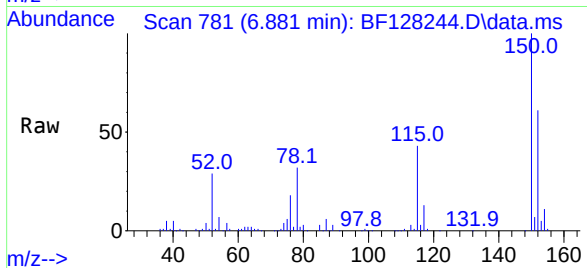
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.881 min Scan# 70  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

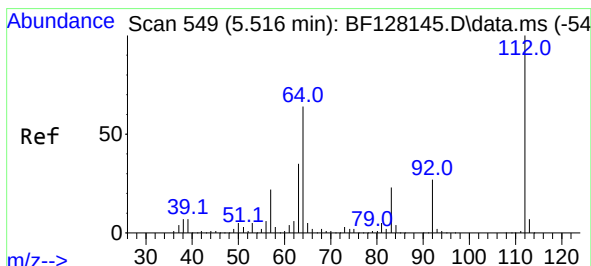
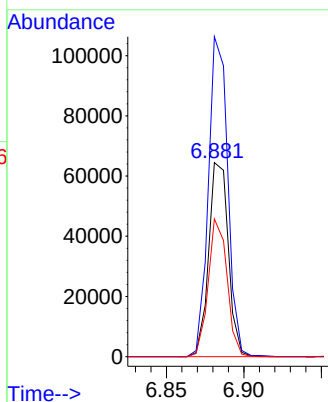
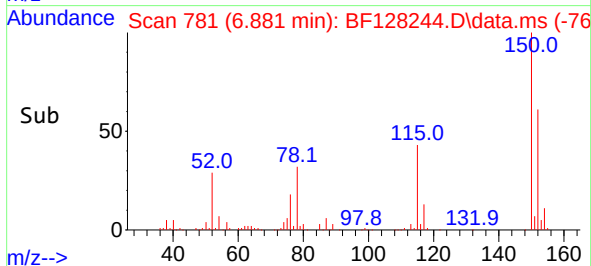
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



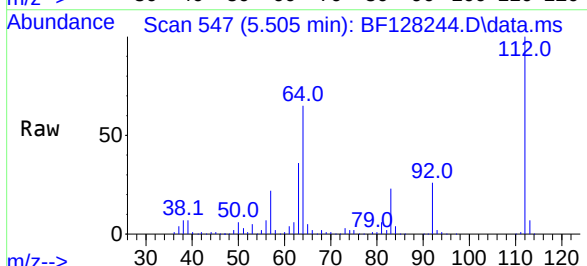
Tgt Ion:152 Resp: 56889  
Ion Ratio Lower Upper  
152 100  
150 164.9 125.3 187.9  
115 71.0 48.8 73.2

Manual Integrations  
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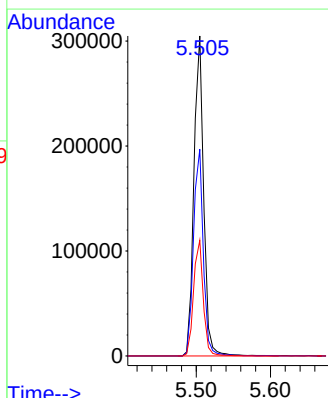
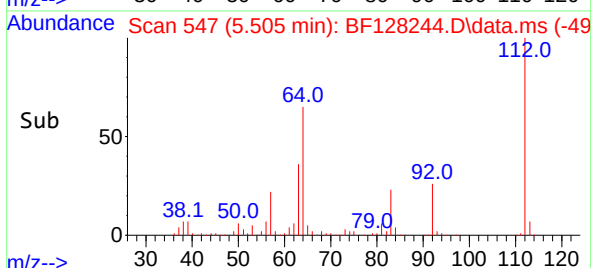
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

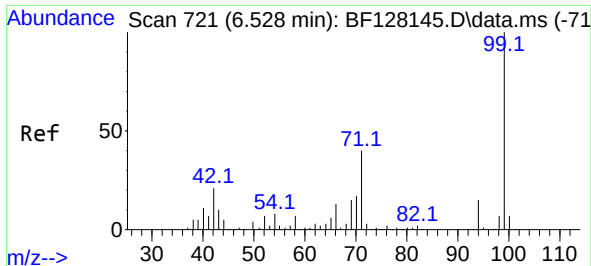


#5  
2-Fluorophenol  
Concen: 77.814 ng  
RT: 5.505 min Scan# 547  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



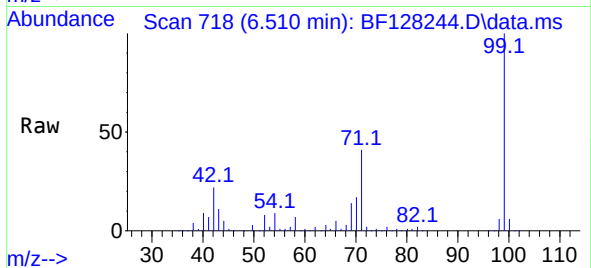
Tgt Ion:112 Resp: 277689  
Ion Ratio Lower Upper  
112 100  
64 64.6 49.5 74.3  
63 36.1 26.3 39.5





#7  
Phenol-d6  
Concen: 79.018 ng  
RT: 6.510 min Scan# 71  
Delta R.T. -0.017 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

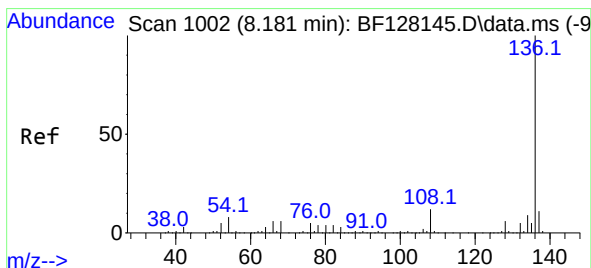
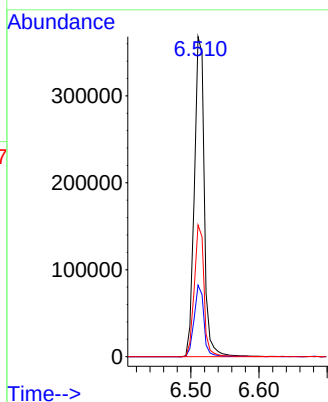
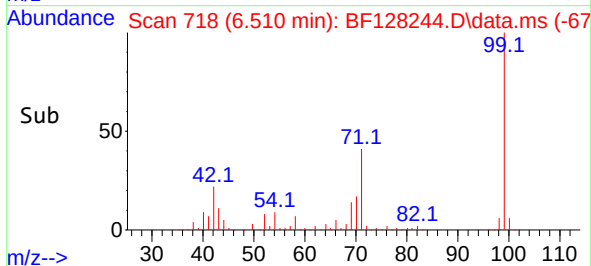
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



Tgt Ion: 99 Resp: 372974  
Ion Ratio Lower Upper  
99 100  
42 22.4 16.6 24.8  
71 41.1 30.0 45.0

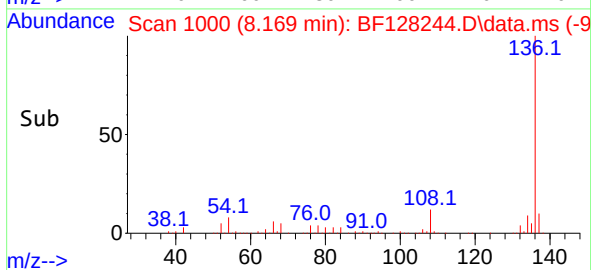
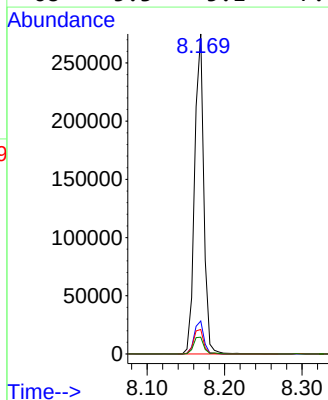
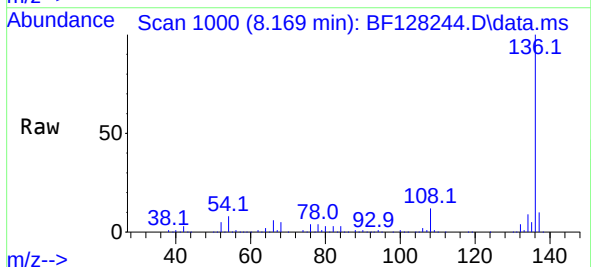
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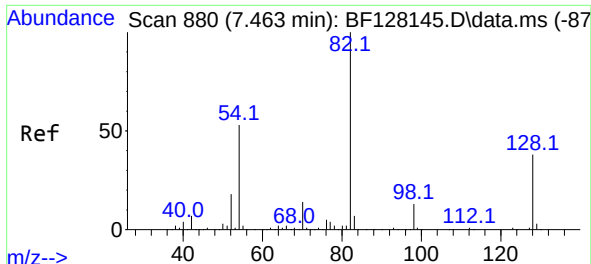
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1000  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

Tgt Ion:136 Resp: 225129  
Ion Ratio Lower Upper  
136 100  
137 10.3 8.6 13.0  
54 7.7 6.8 10.2  
68 5.3 5.1 7.7





#23

Nitrobenzene-d5

Concen: 52.686 ng

RT: 7.446 min Scan# 81

Delta R.T. -0.017 min

Lab File: BF128244.D

Acq: 13 May 2022 17:42

Instrument :

BNA\_F

ClientSampleId :

SC-1

Tgt Ion: 82 Resp: 26360

Ion Ratio Lower Upper

82 100

128 34.9 30.0 45.0

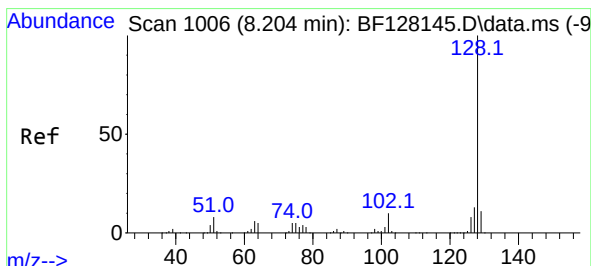
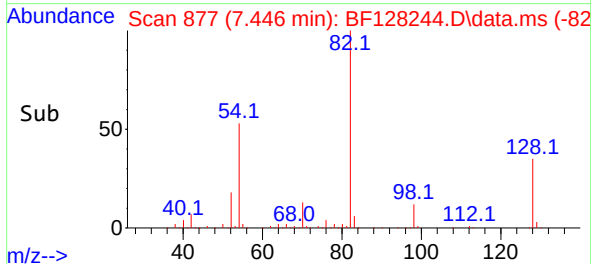
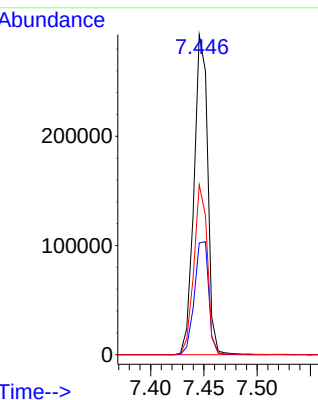
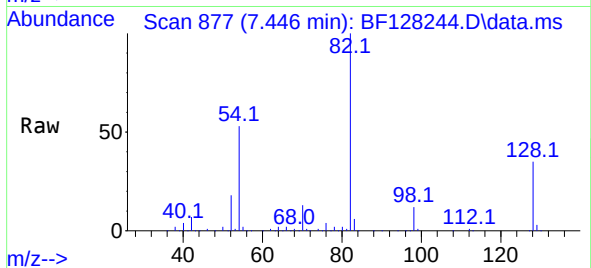
54 53.1 41.3 61.9

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Supervised By :Jagrut Upadhyay 05/16/2022



#31

Naphthalene

Concen: 2.457 ng

RT: 8.187 min Scan# 1003

Delta R.T. -0.012 min

Lab File: BF128244.D

Acq: 13 May 2022 17:42

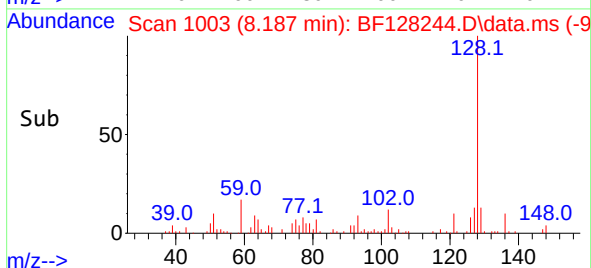
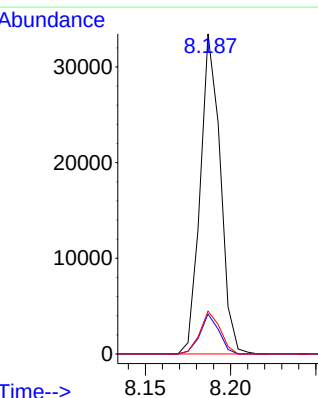
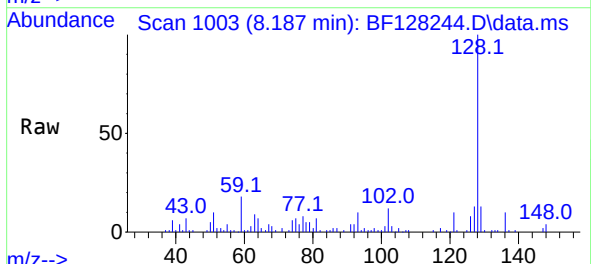
Tgt Ion:128 Resp: 27314

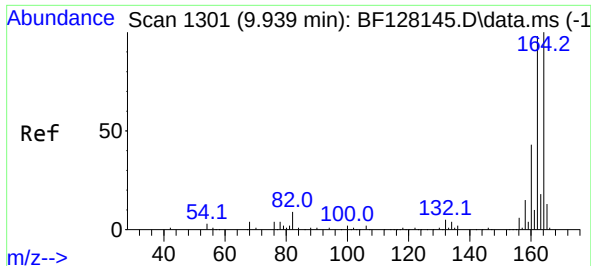
Ion Ratio Lower Upper

128 100

129 12.5 9.0 13.4

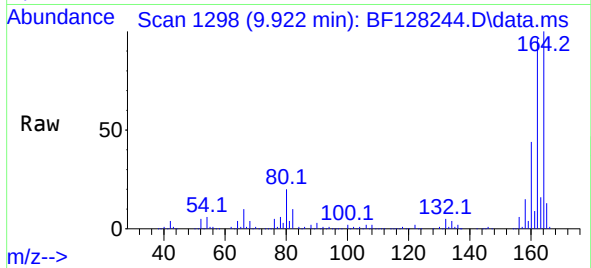
127 13.4 10.6 16.0





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.922 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

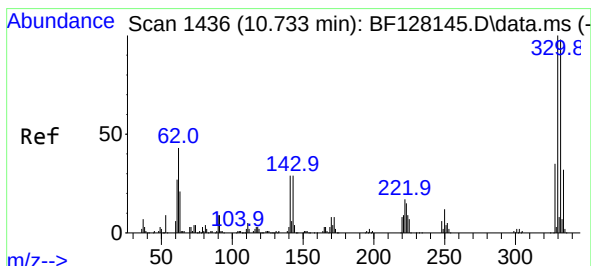
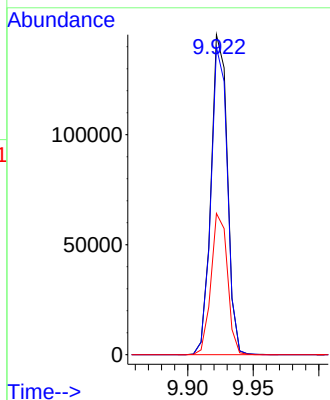
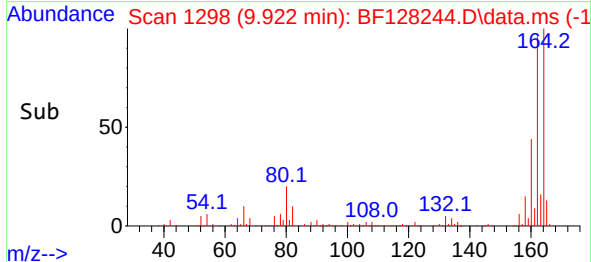
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



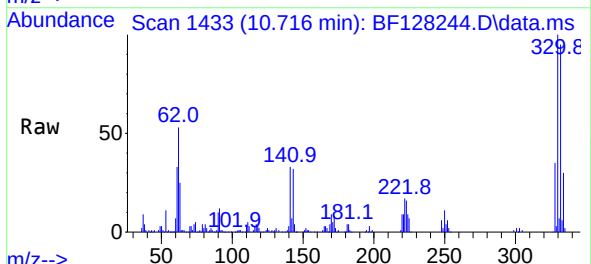
Tgt Ion:164 Resp: 126475  
Ion Ratio Lower Upper  
164 100  
162 96.1 76.0 114.0  
160 44.2 34.8 52.2

Manual Integrations  
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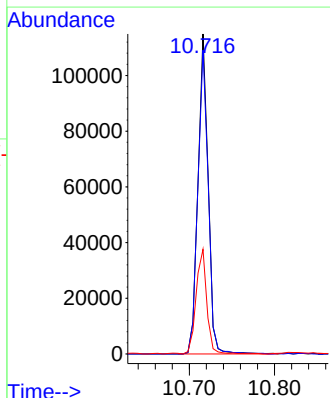
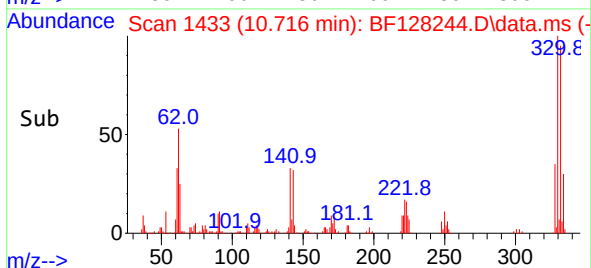
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

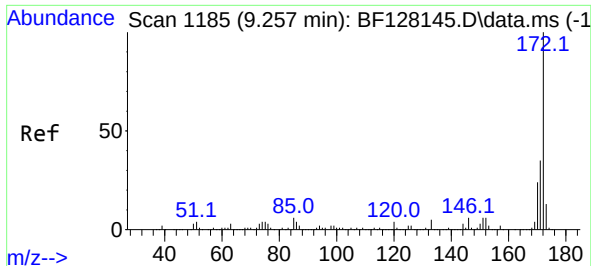


#42  
2,4,6-Tribromophenol  
Concen: 65.821 ng  
RT: 10.716 min Scan# 1433  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



Tgt Ion:330 Resp: 95474  
Ion Ratio Lower Upper  
330 100  
332 97.3 79.0 118.4  
141 34.5 28.9 43.3





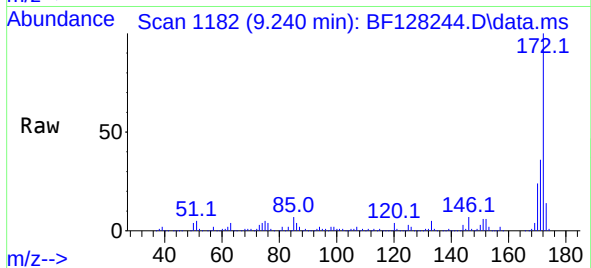
#45  
2-Fluorobiphenyl  
Concen: 55.985 ng  
RT: 9.240 min Scan# 1182  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

Instrument :

BNA\_F

ClientSampleId :

SC-1

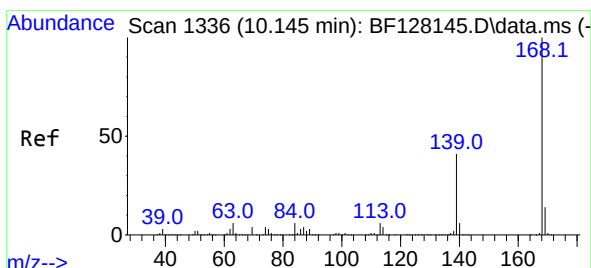
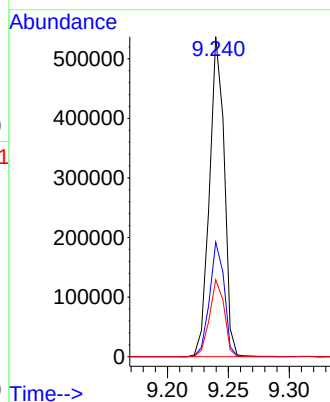
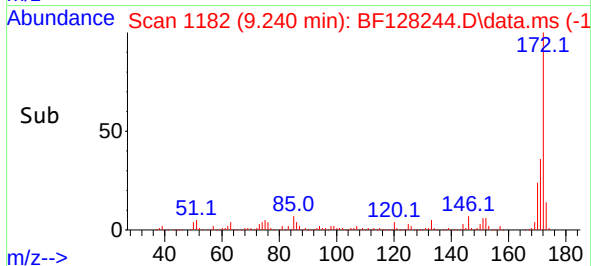


Tgt Ion:172 Resp: 452528  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.6 42.8  
170 24.1 19.1 28.7

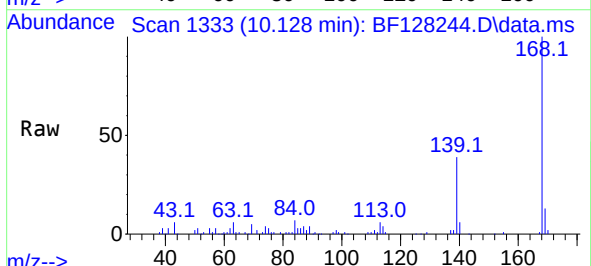
Manual Integrations

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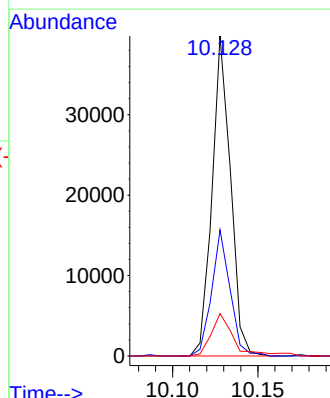
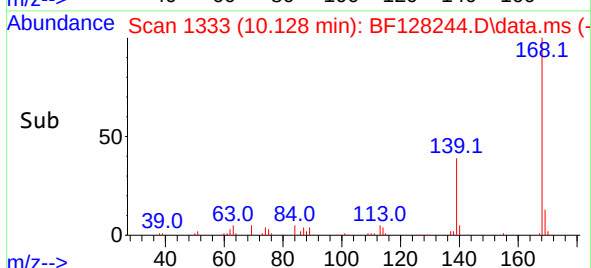
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

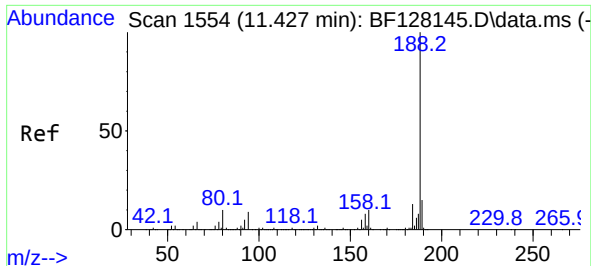


#55  
Dibenzofuran  
Concen: 2.941 ng  
RT: 10.128 min Scan# 1333  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



Tgt Ion:168 Resp: 29888  
Ion Ratio Lower Upper  
168 100  
139 39.4 31.7 47.5  
169 13.3 10.9 16.3





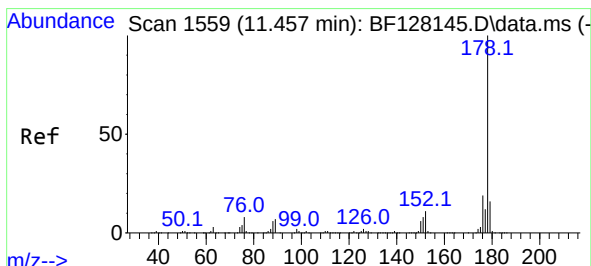
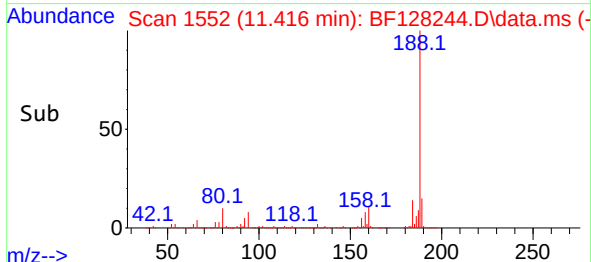
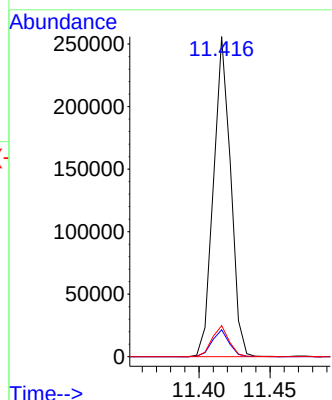
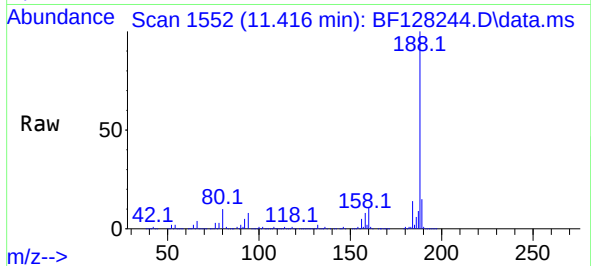
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.416 min Scan# 1552  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

Instrument :  
BNA\_F  
ClientSampleId :  
SC-1

Tgt Ion:188 Resp: 21428  
Ion Ratio Lower Upper  
188 100  
94 8.4 8.0 12.0  
80 9.7 8.9 13.3

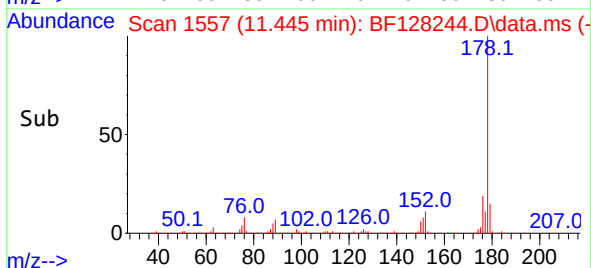
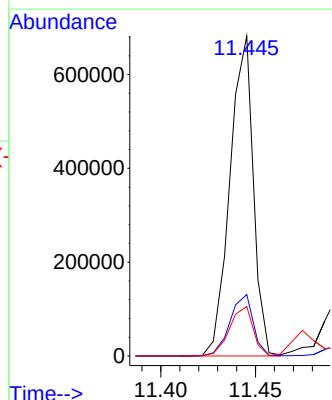
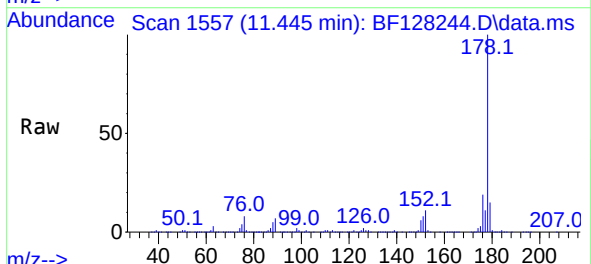
Manual Integrations  
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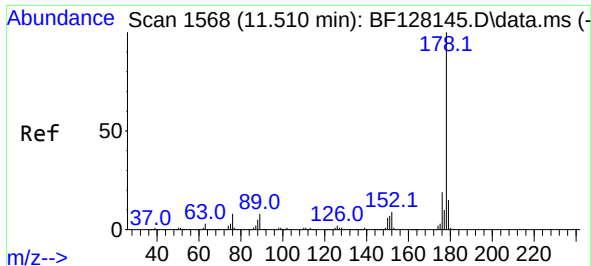


#71  
Phenanthrene  
Concen: 54.741 ng  
RT: 11.445 min Scan# 1557  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

Tgt Ion:178 Resp: 584078  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.7 23.5  
179 15.5 12.6 19.0

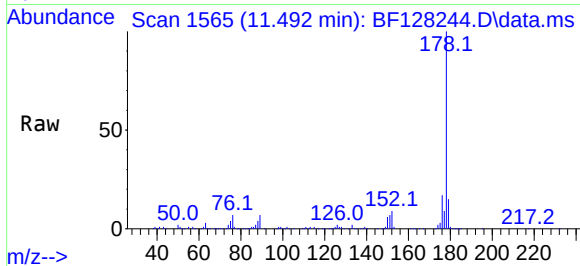






#72  
 Anthracene  
 Concen: 9.770 ng  
 RT: 11.492 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF128244.D  
 Acq: 13 May 2022 17:42

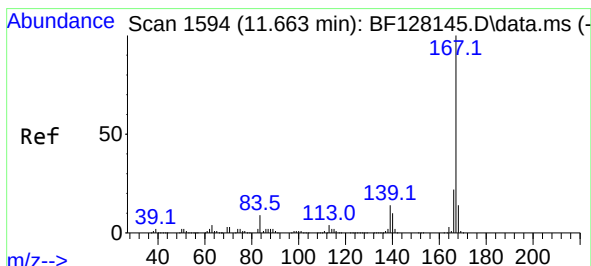
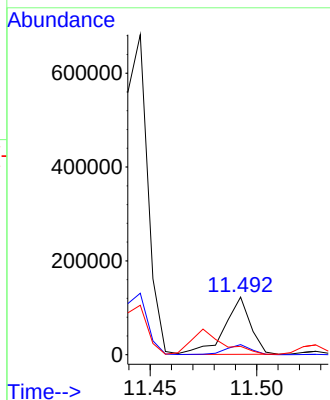
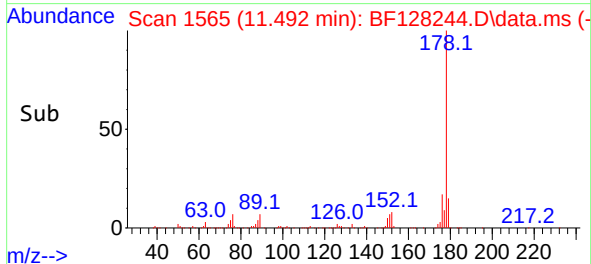
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SC-1



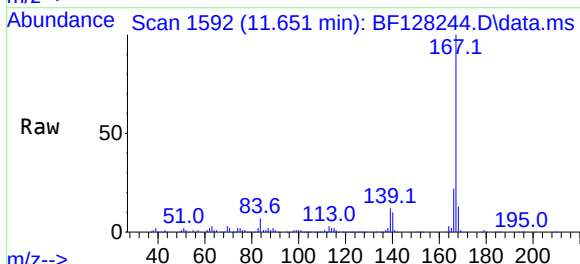
Tgt Ion:178 Resp: 104080  
 Ion Ratio Lower Upper  
 178 100  
 176 17.4 15.0 22.6  
 179 14.5 12.4 18.6

Manual Integrations  
 APPROVED

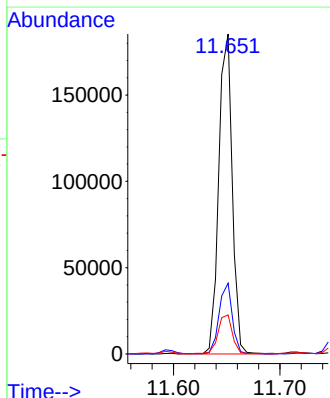
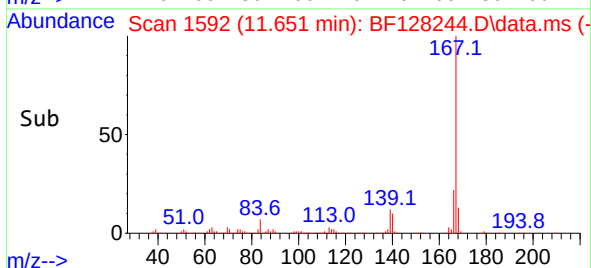
Reviewed By :Christian Giraldo 05/16/2022  
 Supervised By :Jagrut Upadhyay 05/16/2022

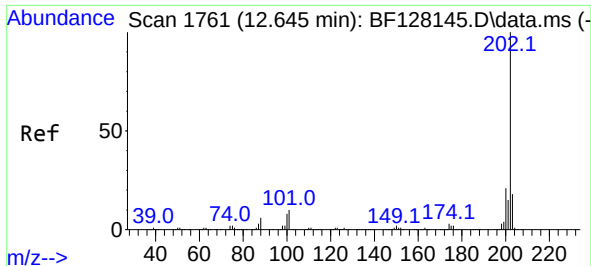


#73  
 Carbazole  
 Concen: 16.028 ng  
 RT: 11.651 min Scan# 1592  
 Delta R.T. -0.006 min  
 Lab File: BF128244.D  
 Acq: 13 May 2022 17:42



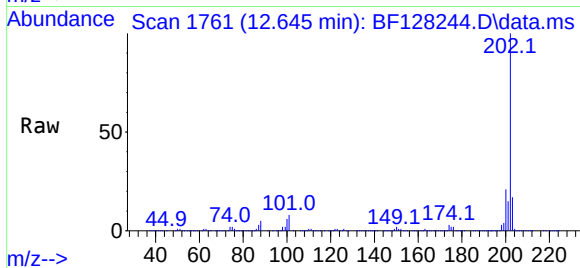
Tgt Ion:167 Resp: 162365  
 Ion Ratio Lower Upper  
 167 100  
 166 22.1 17.6 26.4  
 139 12.2 10.7 16.1





#75  
Fluoranthene  
Concen: 109.471 ng  
RT: 12.645 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

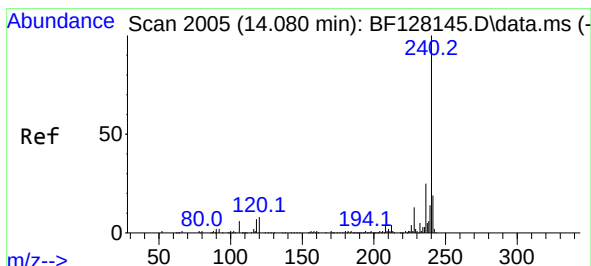
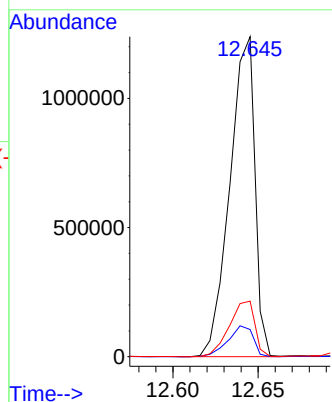
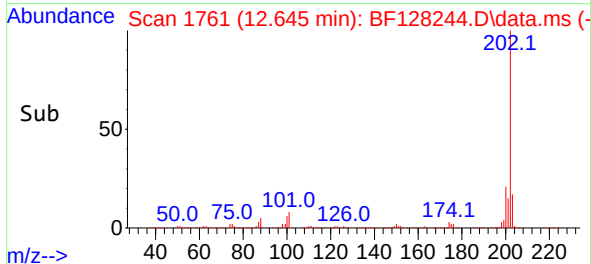
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



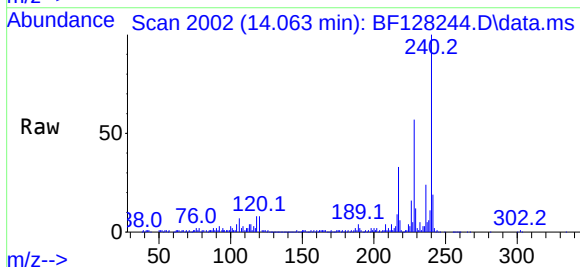
Tgt Ion:202 Resp: 1266334  
Ion Ratio Lower Upper  
202 100  
101 8.5 0.0 31.6  
203 17.3 0.0 38.1

Manual Integrations  
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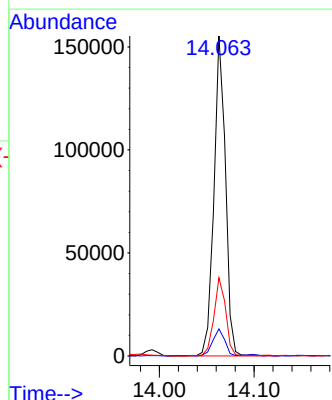
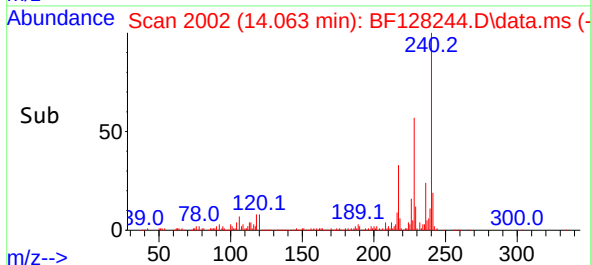
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

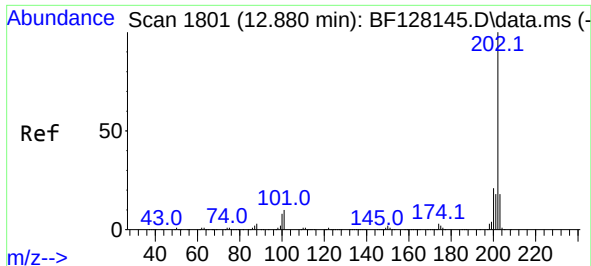


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.063 min Scan# 2002  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



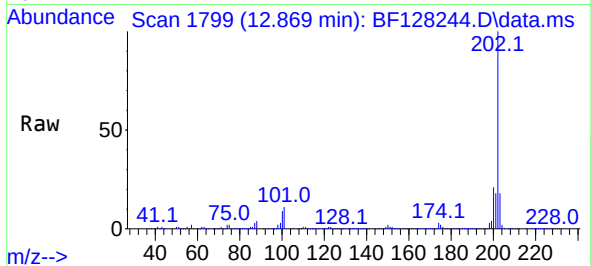
Tgt Ion:240 Resp: 130967  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.0 10.6  
236 24.5 20.3 30.5





#78  
Pyrene  
Concen: 82.502 ng  
RT: 12.869 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

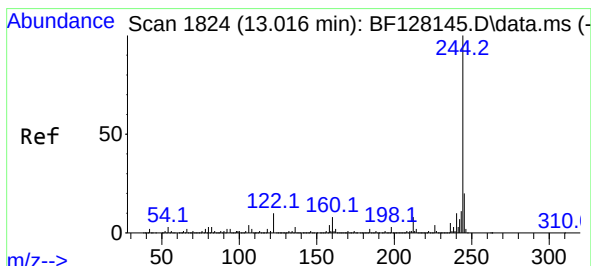
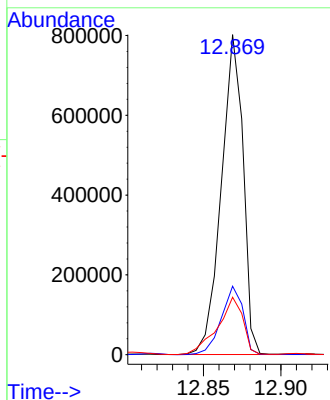
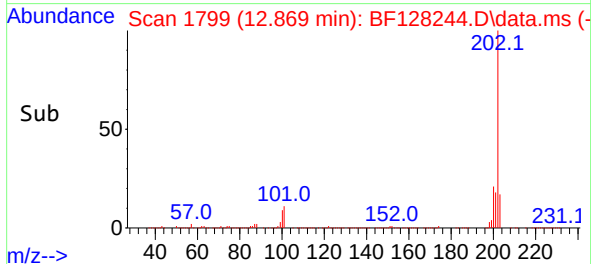
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



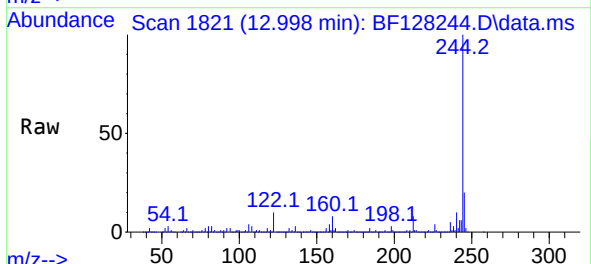
Tgt Ion:202 Resp: 78346  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.4 26.2  
203 18.0 14.0 21.0

Manual Integrations  
APPROVED

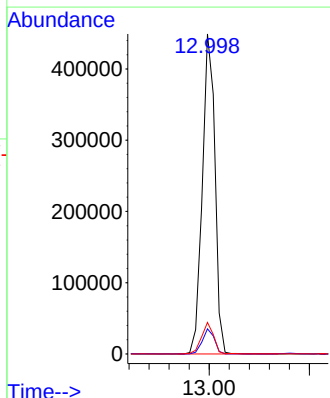
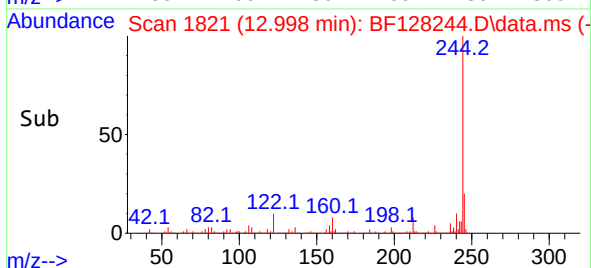
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

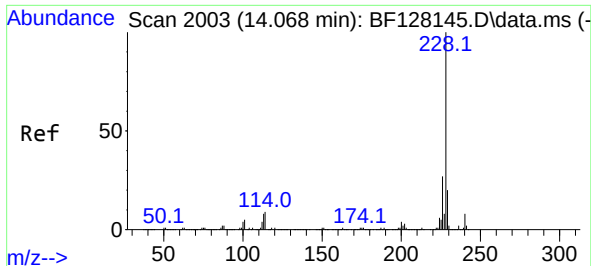


#79  
Terphenyl-d14  
Concen: 56.511 ng  
RT: 12.998 min Scan# 1821  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



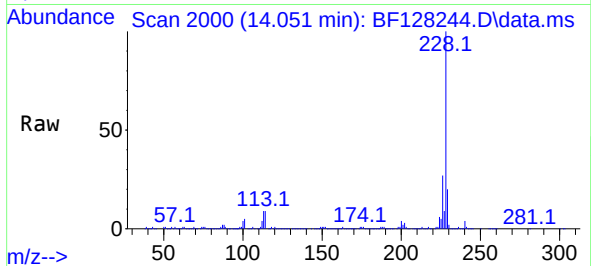
Tgt Ion:244 Resp: 394426  
Ion Ratio Lower Upper  
244 100  
212 7.8 6.2 9.4  
122 9.8 8.6 12.8





#81  
Benzo(a)anthracene  
Concen: 38.924 ng  
RT: 14.051 min Scan# 2000  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

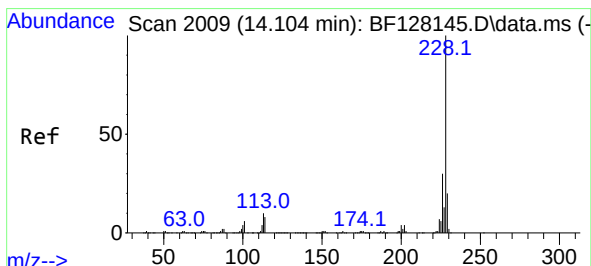
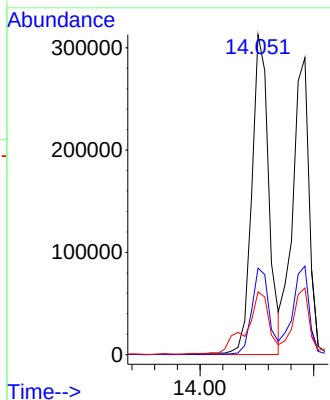
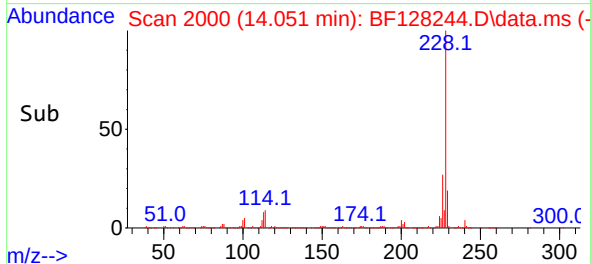
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



Tgt Ion:228 Resp: 325610  
Ion Ratio Lower Upper  
228 100  
226 27.1 21.7 32.5  
229 19.6 15.4 23.2

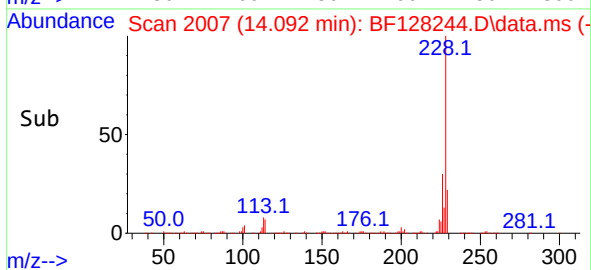
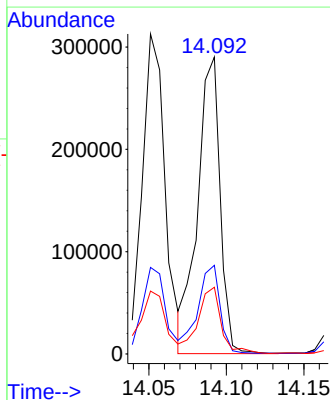
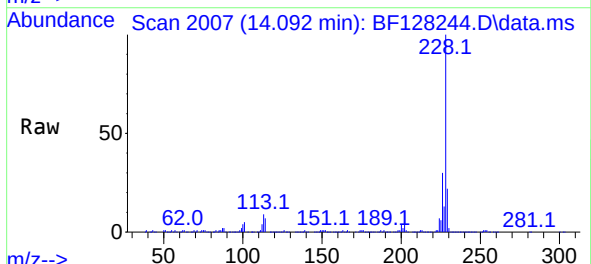
Manual Integrations  
APPROVED

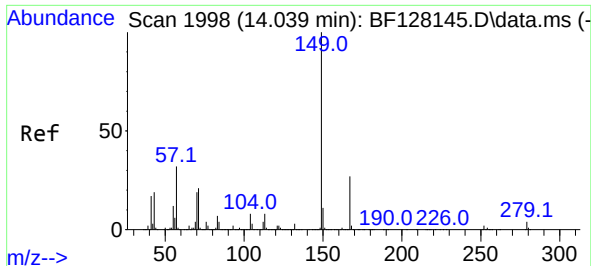
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#83  
Chrysene  
Concen: 36.794 ng  
RT: 14.092 min Scan# 2007  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

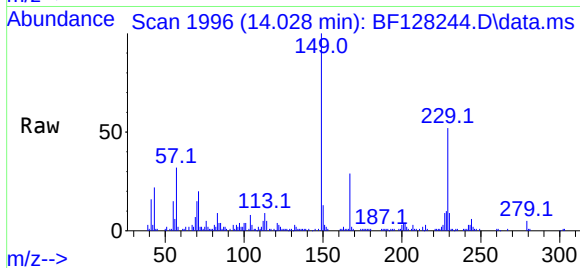
Tgt Ion:228 Resp: 293678  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.4 36.6  
229 22.5 15.8 23.8





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 6.095 ng  
RT: 14.028 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

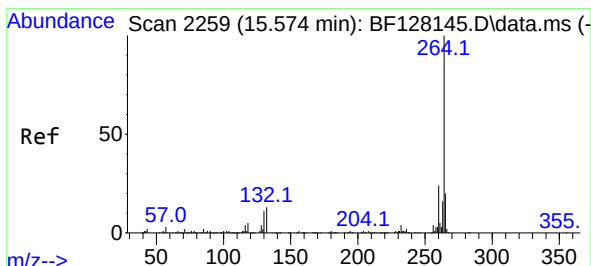
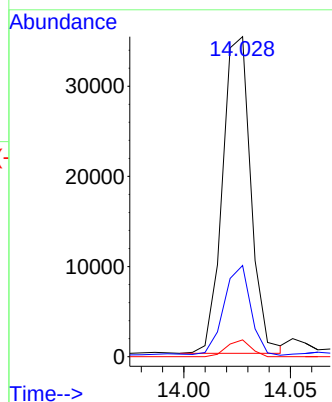
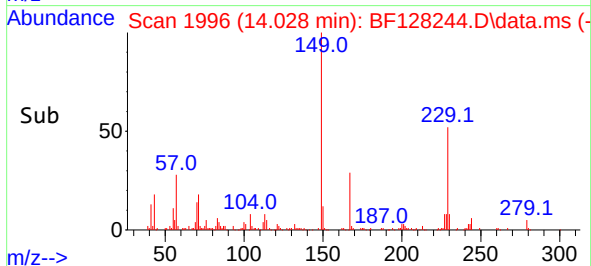
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



Tgt Ion:149 Resp: 32510  
Ion Ratio Lower Upper  
149 100  
167 28.5 22.0 33.0  
279 5.3 3.4 5.0

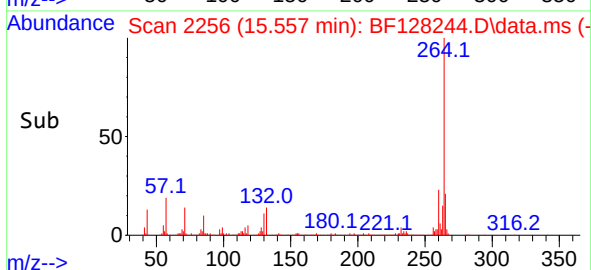
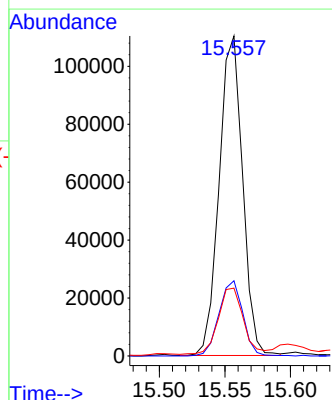
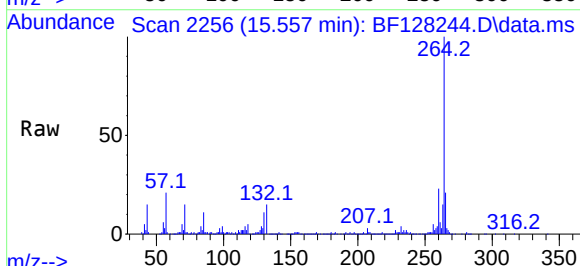
Manual Integrations  
APPROVED

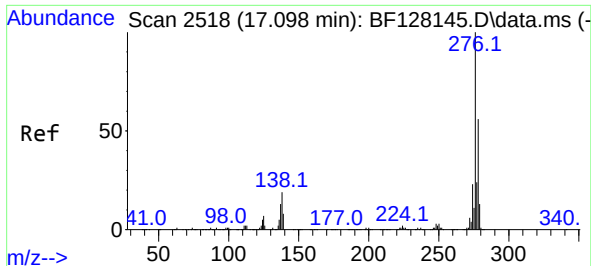
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.557 min Scan# 2256  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

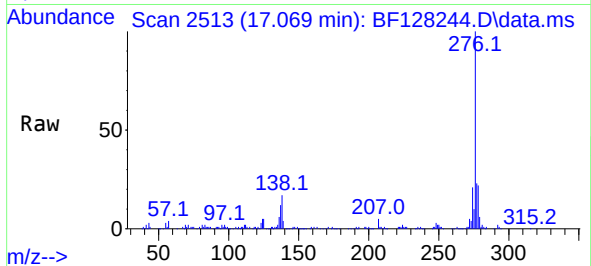
Tgt Ion:264 Resp: 136949  
Ion Ratio Lower Upper  
264 100  
260 23.5 20.1 30.1  
265 21.2 17.5 26.3





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 13.860 ng  
RT: 17.069 min Scan# 211  
Delta R.T. -0.017 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

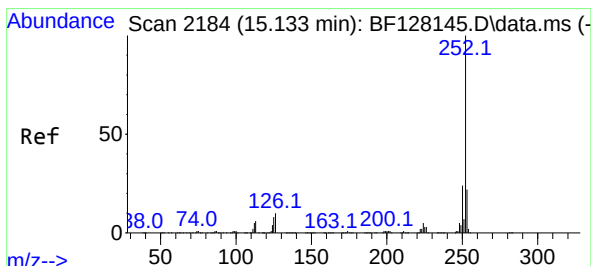
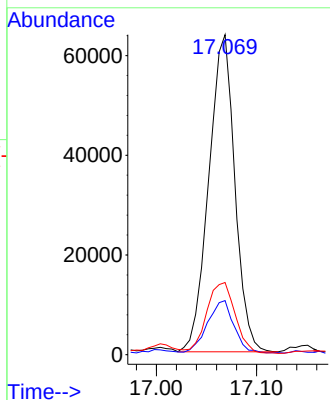
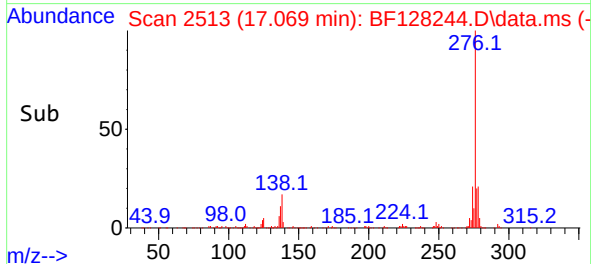
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



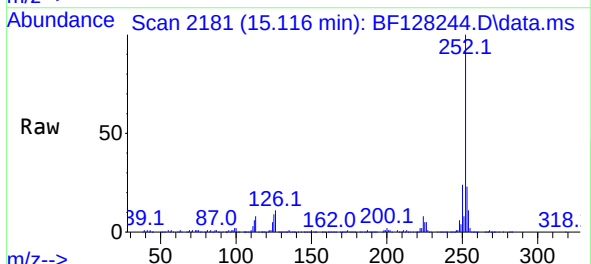
Tgt Ion:276 Resp: 11482  
Ion Ratio Lower Upper  
276 100  
138 17.6 19.0 28.4  
277 24.4 20.1 30.1

Manual Integrations  
APPROVED

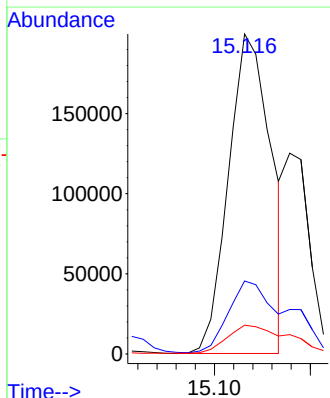
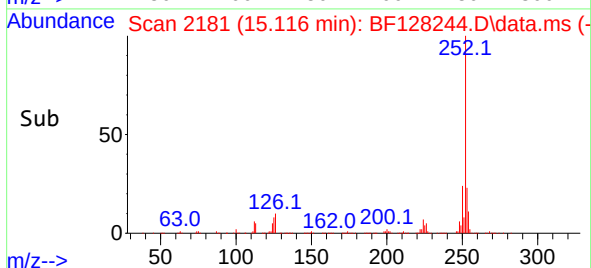
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

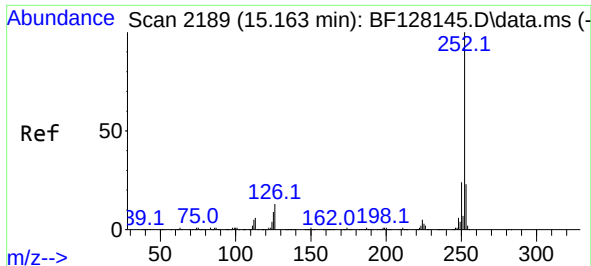


#88  
Benzo(b)fluoranthene  
Concen: 36.268 ng m  
RT: 15.116 min Scan# 2181  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



Tgt Ion:252 Resp: 307894  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.2  
125 9.0 7.4 11.2





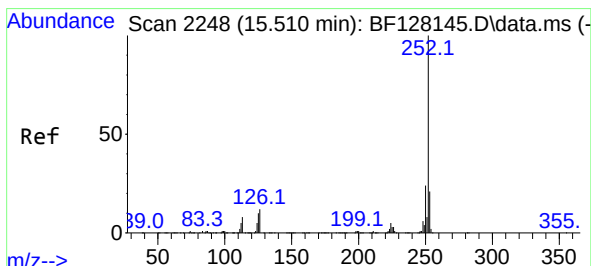
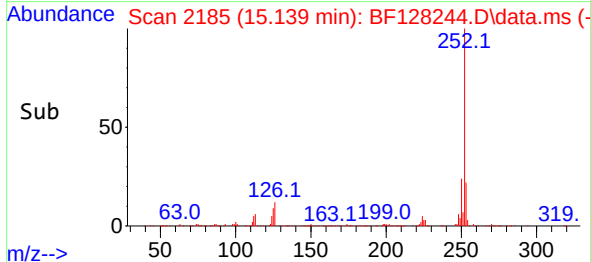
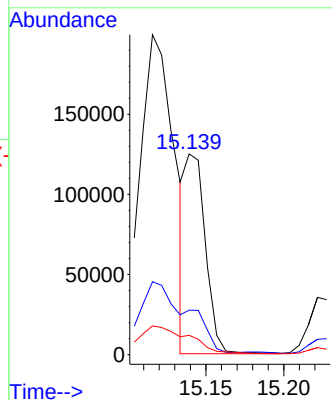
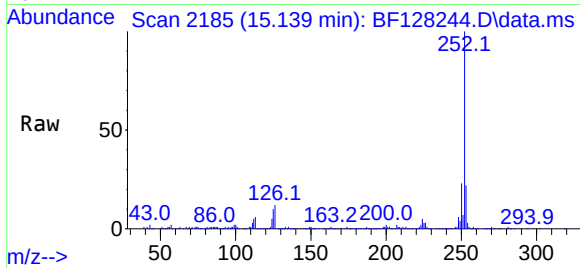
#89  
Benzo(k)fluoranthene  
Concen: 13.317 ng m  
RT: 15.139 min Scan# 2189  
Delta R.T. -0.012 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

Instrument :  
BNA\_F  
ClientSampleId :  
SC-1

Tgt Ion:252 Resp: 11160  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.0 25.4  
125 9.6 6.8 10.2

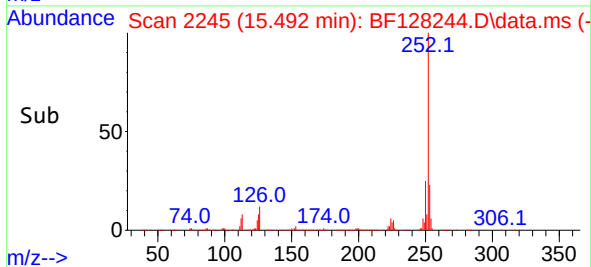
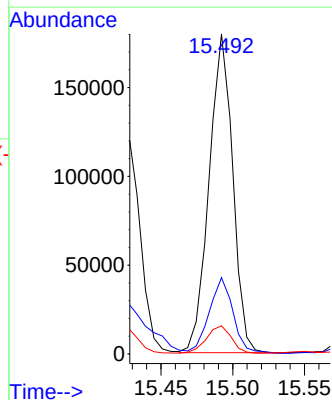
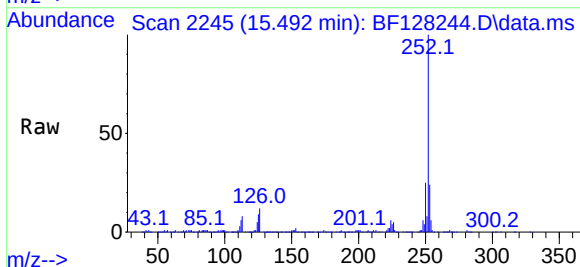
Manual Integrations  
APPROVED

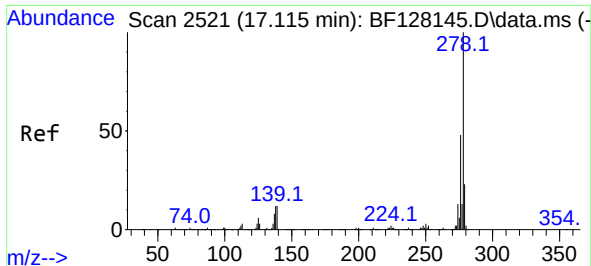
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#90  
Benzo(a)pyrene  
Concen: 29.966 ng m  
RT: 15.492 min Scan# 2245  
Delta R.T. -0.006 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

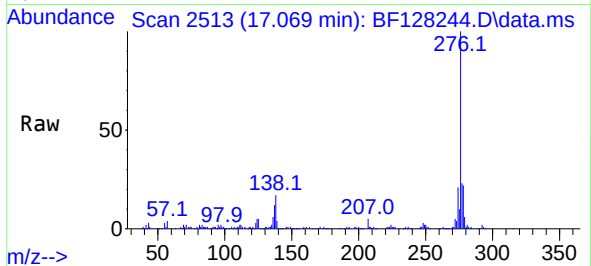
Tgt Ion:252 Resp: 205377  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.8 26.6  
125 8.8 9.2 13.8#





#91  
Dibenzo(a,h)anthracene  
Concen: 4.519 ng  
RT: 17.069 min Scan# 2513  
Delta R.T. -0.029 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42

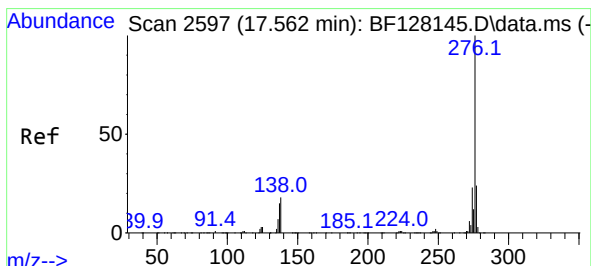
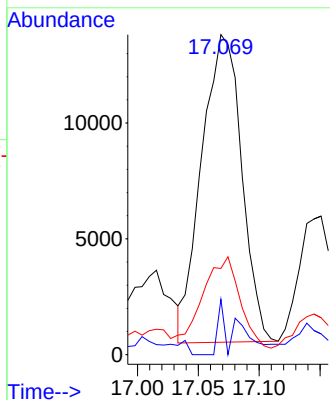
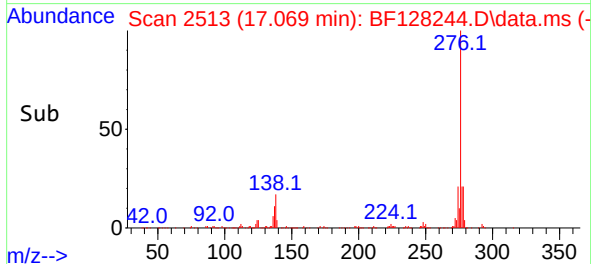
Instrument :  
BNA\_F  
ClientSampleId :  
SC-1



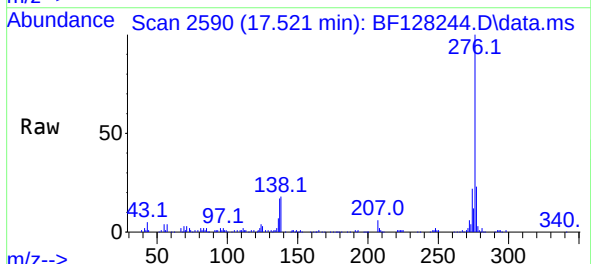
Tgt Ion:278 Resp: 30308  
Ion Ratio Lower Upper  
278 100  
139 17.3 12.6 19.0  
279 26.9 18.9 28.3

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#92  
Benzo(g,h,i)perylene  
Concen: 14.737 ng  
RT: 17.521 min Scan# 2590  
Delta R.T. -0.029 min  
Lab File: BF128244.D  
Acq: 13 May 2022 17:42



Tgt Ion:276 Resp: 100076  
Ion Ratio Lower Upper  
276 100  
277 22.6 18.8 28.2  
138 18.1 16.2 24.2

