

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051022\  
 Data File : BF128183.D  
 Acq On : 11 May 2022 02:12  
 Operator : CG\JU  
 Sample : N2759-01  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-02-050922

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/11/2022  
 Supervised By : Jagrut Upadhyay 05/11/2022

Quant Time: May 11 04:03:09 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 15:30:11 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.892  | 152  | 71420    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.175  | 136  | 250335   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.933  | 164  | 122698   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.421 | 188  | 196741   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.080 | 240  | 139444   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.580 | 264  | 103014   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.510  | 112  | 390251   | 87.106 | ng    | 0.00     |
| 7) Phenol-d6                | 6.522  | 99   | 507283   | 85.607 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.457  | 82   | 352125   | 63.293 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.722 | 330  | 107981   | 76.735 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.251  | 172  | 533523   | 68.037 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.015 | 244  | 488057   | 65.675 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 9.792  | 152  | 43166    | 4.311  | ng    | 99       |
| 58) Fluorene                | 10.480 | 166  | 22828    | 2.973  | ng    | 99       |
| 71) Phenanthrene            | 11.451 | 178  | 318667   | 32.529 | ng    | 99       |
| 72) Anthracene              | 11.498 | 178  | 105803   | 10.817 | ng    | 99       |
| 73) Carbazole               | 11.657 | 167  | 20068    | 2.158  | ng    | 98       |
| 75) Fluoranthene            | 12.651 | 202  | 887981   | 83.607 | ng    | 97       |
| 78) Pyrene                  | 12.880 | 202  | 865094   | 85.560 | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.068 | 228  | 450246   | 50.551 | ng    | 96       |
| 83) Chrysene                | 14.104 | 228  | 423936   | 49.884 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.103 | 276  | 176971   | 28.399 | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 15.139 | 252  | 469132m  | 73.465 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.162 | 252  | 128555m  | 20.394 | ng    |          |
| 90) Benzo(a)pyrene          | 15.515 | 252  | 306558   | 59.464 | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 17.115 | 278  | 48563    | 9.626  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 17.574 | 276  | 175274   | 34.313 | ng    | 95       |
| -----                       |        |      |          |        |       |          |

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

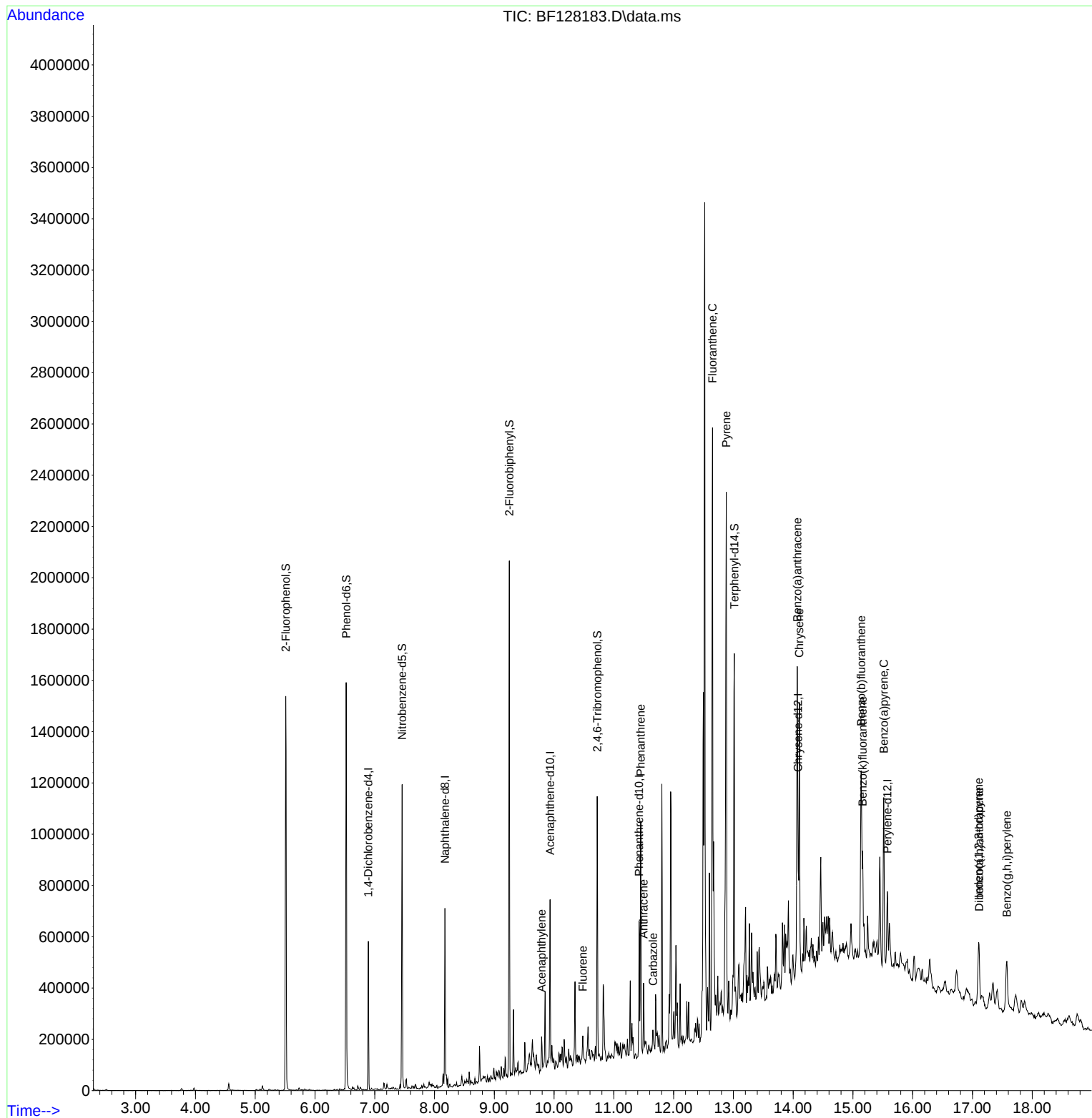
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051022\  
Data File : BF128183.D  
Acq On : 11 May 2022 02:12  
Operator : CG\JU  
Sample : N2759-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-050922

Quant Time: May 11 04:03:09 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF050922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 09 15:30:11 2022  
Response via : Initial Calibration

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Supervised By :Jagrut Upadhyay 05/11/2022





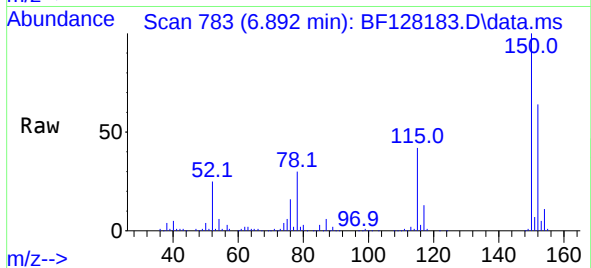
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.892 min Scan# 71420  
Delta R.T. 0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

PL-02-050922

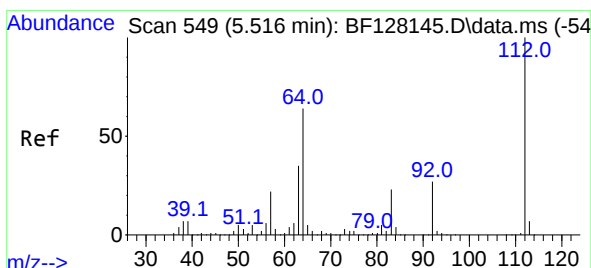
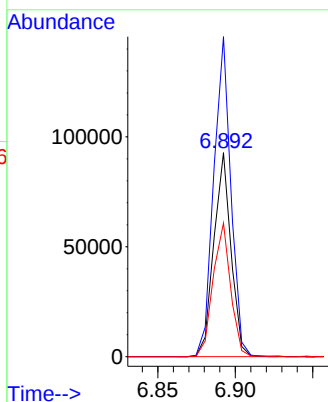
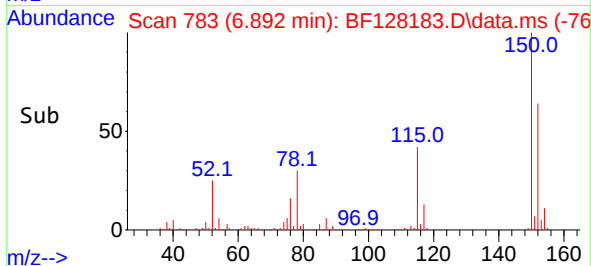


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Ion Ratio Lower Upper  
152 100  
150 156.8 125.3 187.9  
115 65.5 48.8 73.2

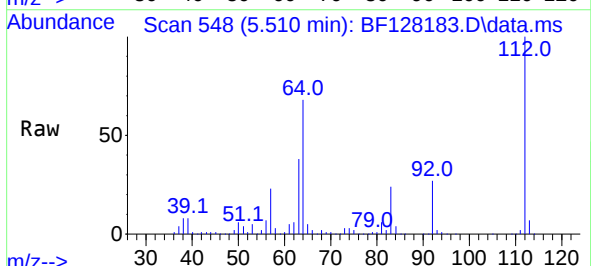
Manual Integrations

APPROVED

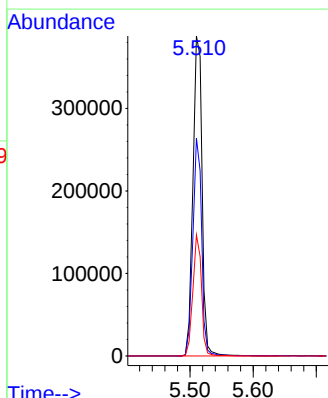
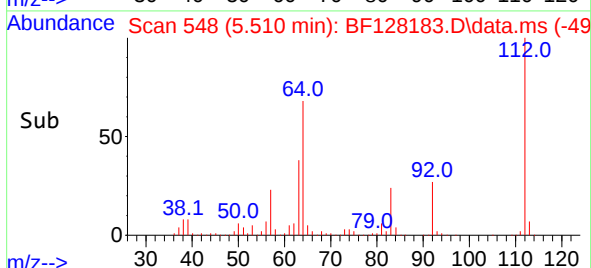
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

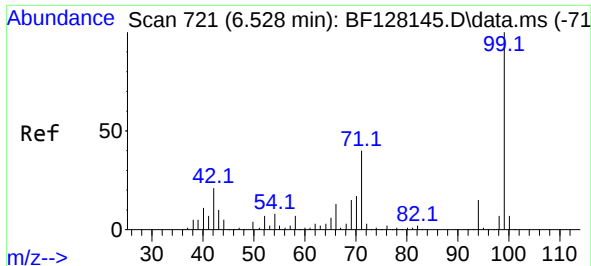


#5  
2-Fluorophenol  
Concen: 87.106 ng  
RT: 5.510 min Scan# 548  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



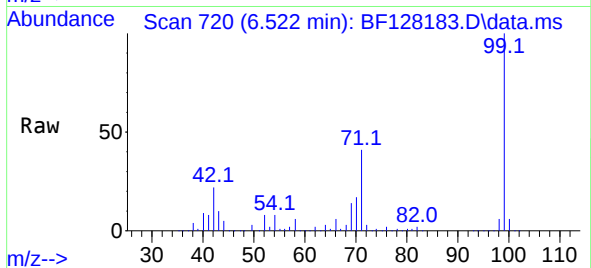
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Ion Ratio Lower Upper  
112 100  
64 68.0 49.5 74.3  
63 37.9 26.3 39.5





#7  
Phenol-d6  
Concen: 85.607 ng  
RT: 6.522 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

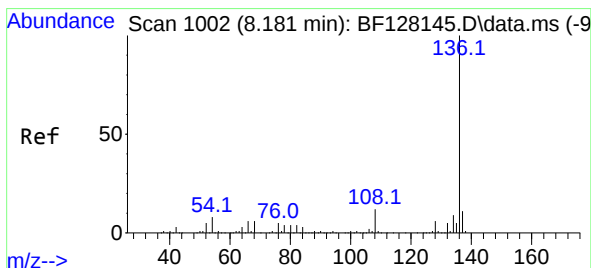
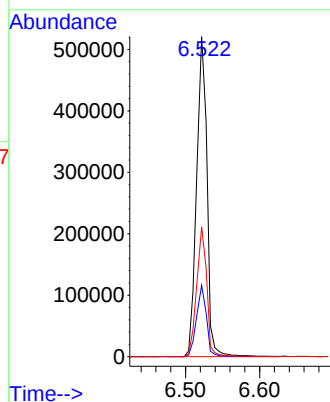
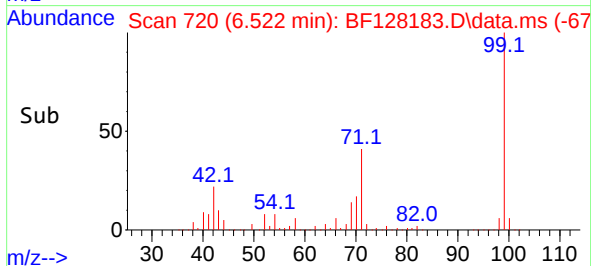
Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-050922



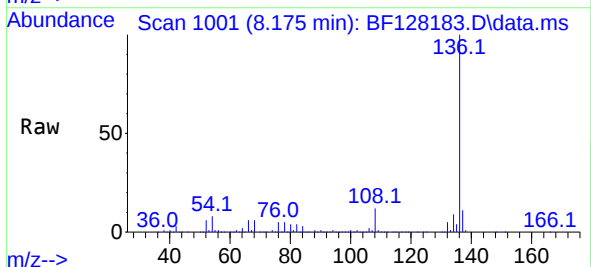
Tgt Ion: 99 Resp: 50728  
Ion Ratio Lower Upper  
99 100  
42 22.3 16.6 24.8  
71 40.6 30.0 45.0

Manual Integrations  
APPROVED

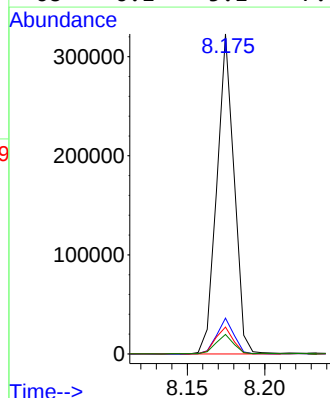
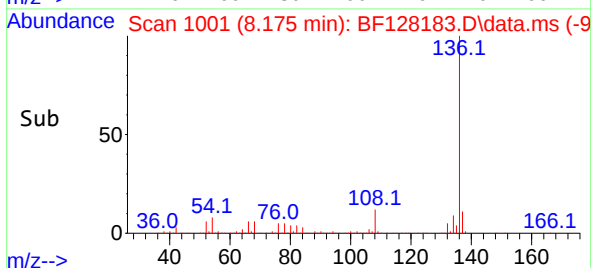
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

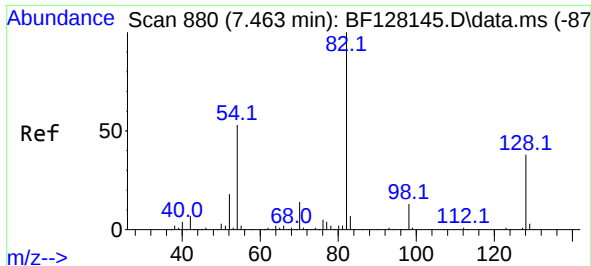


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.175 min Scan# 1001  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



Tgt Ion:136 Resp: 250335  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.6 13.0  
54 8.4 6.8 10.2  
68 6.1 5.1 7.7





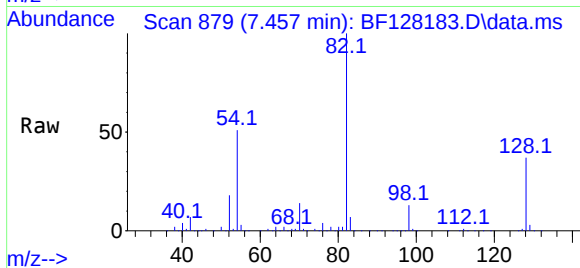
#23  
Nitrobenzene-d5  
Concen: 63.293 ng  
RT: 7.457 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

PL-02-050922

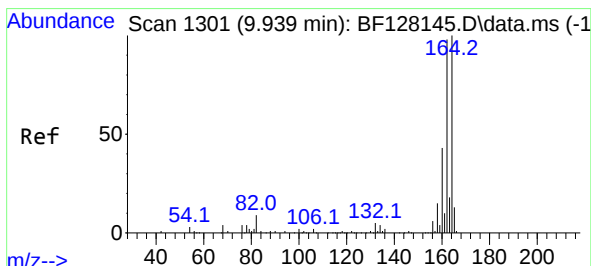
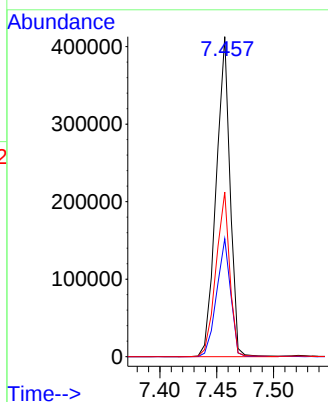
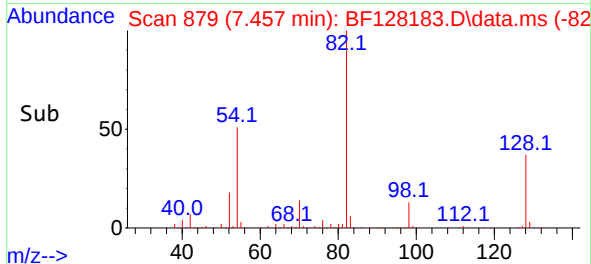


Tgt Ion: 82 Resp: 352125  
Ion Ratio Lower Upper  
82 100  
128 36.9 30.0 45.0  
54 51.5 41.3 61.9

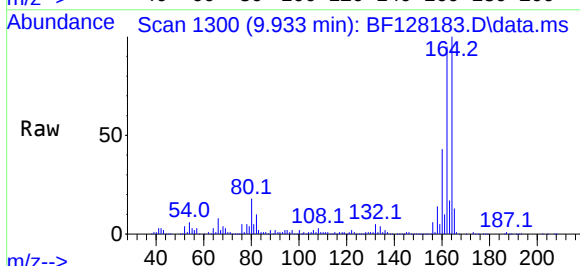
Manual Integrations

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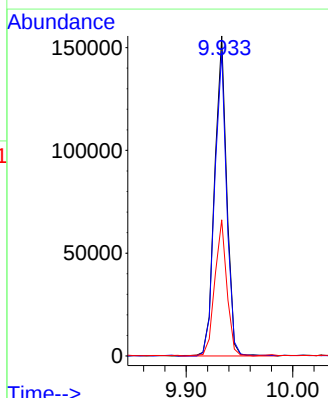
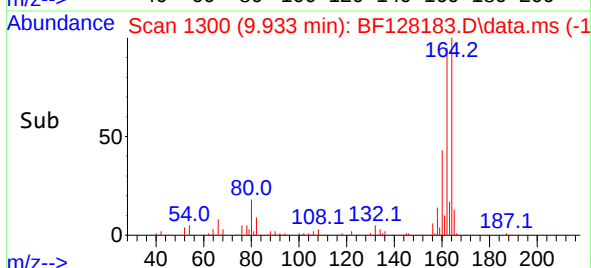
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

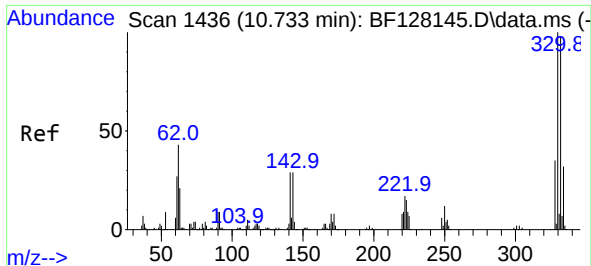


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.933 min Scan# 1300  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



Tgt Ion:164 Resp: 122698  
Ion Ratio Lower Upper  
164 100  
162 95.3 76.0 114.0  
160 42.6 34.8 52.2





#42  
2,4,6-Tribromophenol  
Concen: 76.735 ng  
RT: 10.722 min Scan# 1436  
Delta R.T. -0.012 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

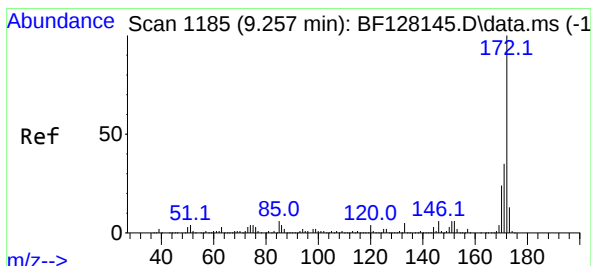
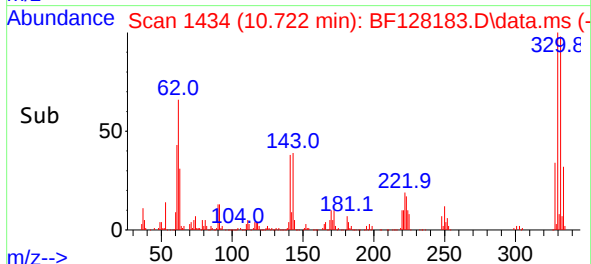
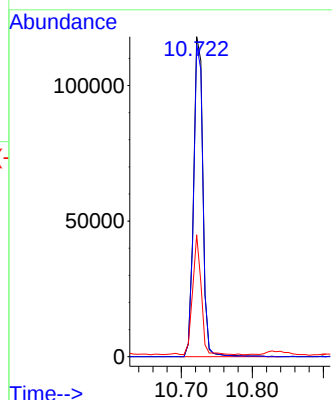
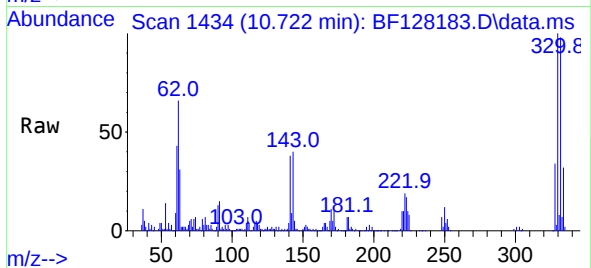
PL-02-050922

Tgt Ion:330 Resp: 10798  
Ion Ratio Lower Upper  
330 100  
332 97.3 79.0 118.4  
141 34.4 28.9 43.3

Manual Integrations

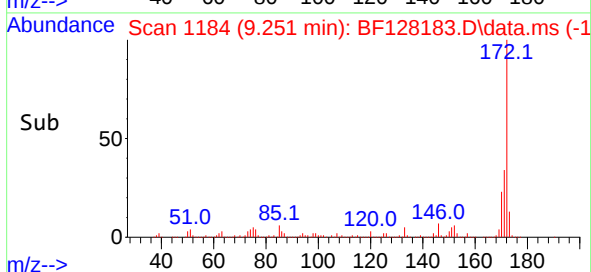
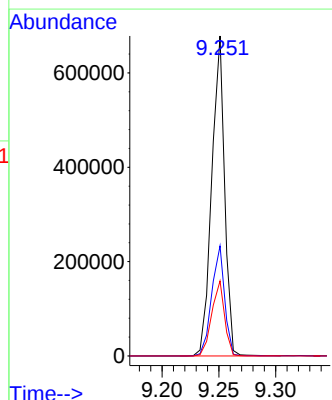
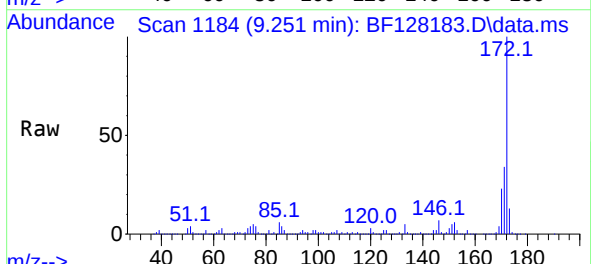
APPROVED

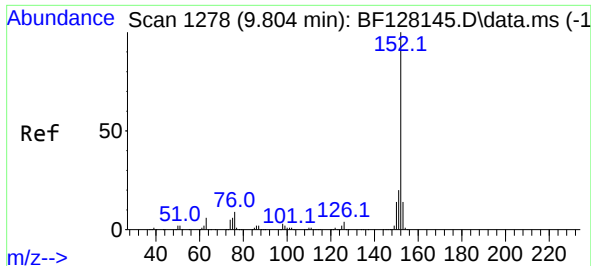
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022



#45  
2-Fluorobiphenyl  
Concen: 68.037 ng  
RT: 9.251 min Scan# 1184  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

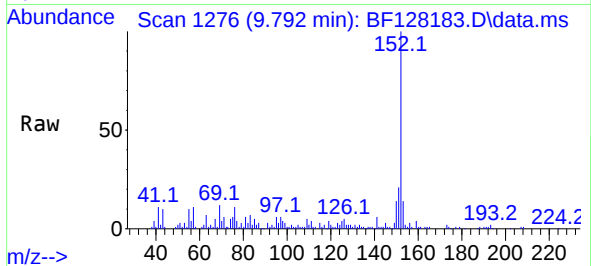
Tgt Ion:172 Resp: 533523  
Ion Ratio Lower Upper  
172 100  
171 34.4 28.6 42.8  
170 23.5 19.1 28.7





#49  
Acenaphthylene  
Concen: 4.311 ng  
RT: 9.792 min Scan# 1278  
Delta R.T. -0.012 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

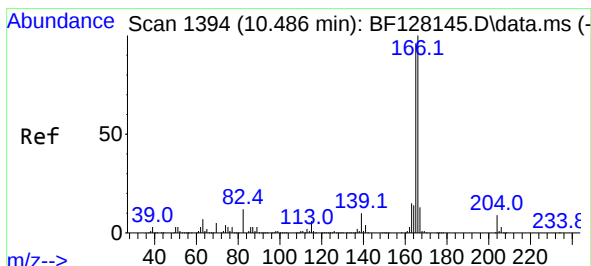
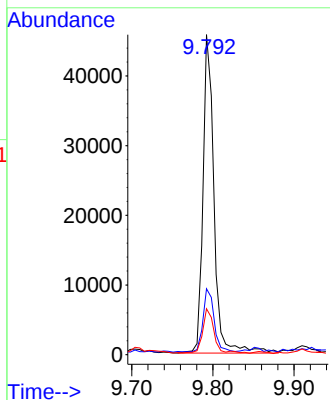
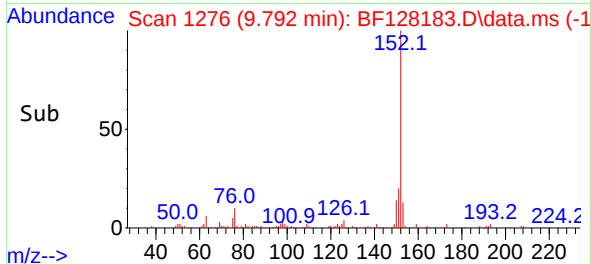
Instrument :  
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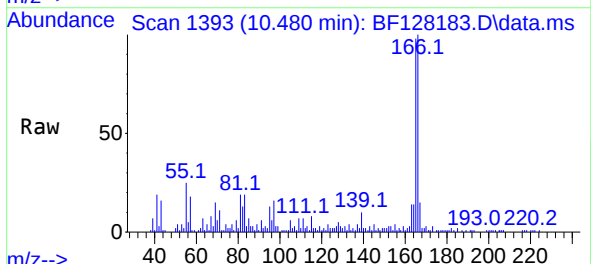
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Ion Ratio Lower Upper  
152 100  
151 20.6 16.2 24.2  
153 14.4 11.2 16.8

Manual Integrations  
APPROVED

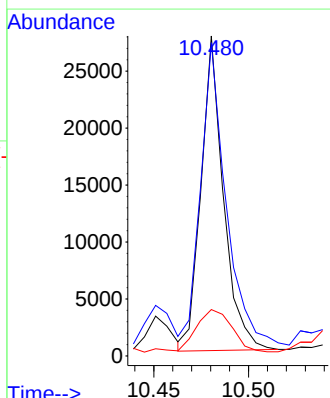
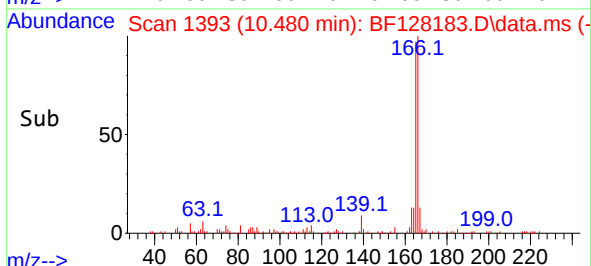
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

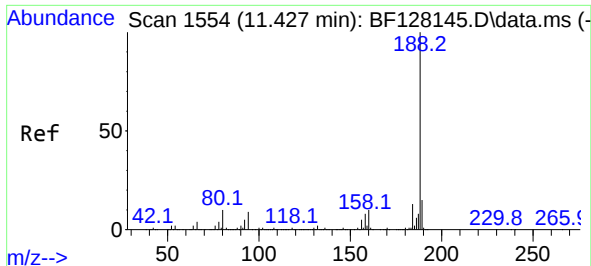


#58  
Fluorene  
Concen: 2.973 ng  
RT: 10.480 min Scan# 1393  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



Tgt Ion:166 Resp: 22828  
Ion Ratio Lower Upper  
166 100  
165 97.9 78.6 117.8  
167 14.5 10.5 15.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.421 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

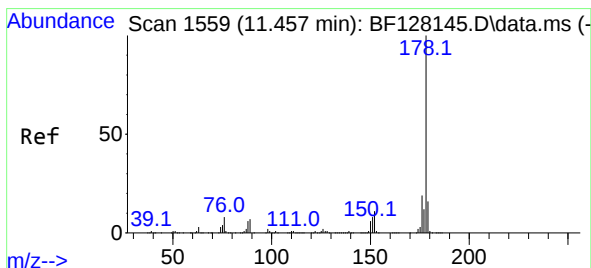
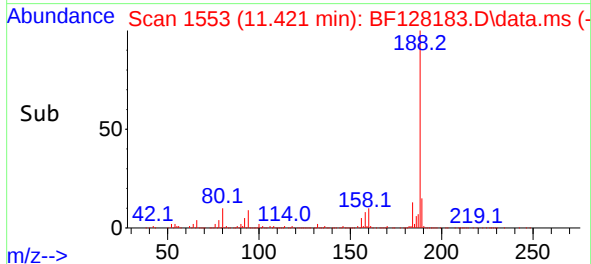
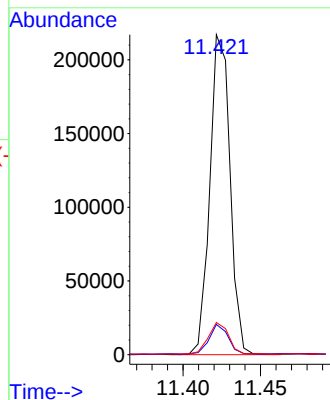
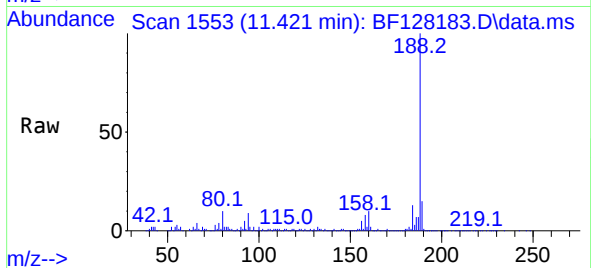
PL-02-050922

Tgt Ion:188 Resp: 19674  
Ion Ratio Lower Upper  
188 100  
94 9.5 8.0 12.0  
80 10.1 8.9 13.3

Manual Integrations

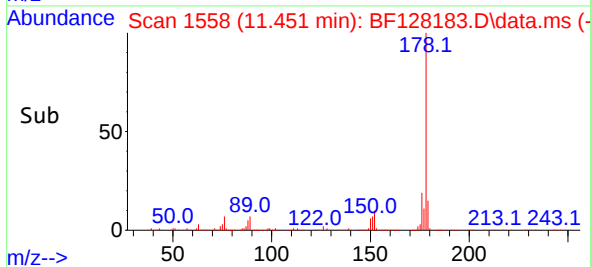
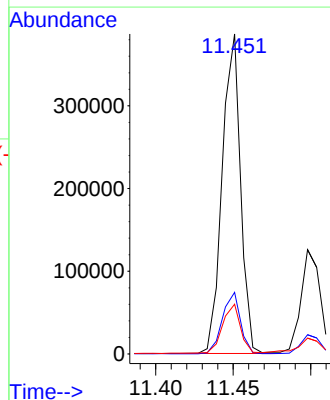
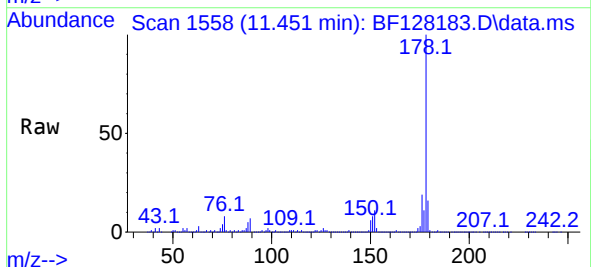
APPROVED

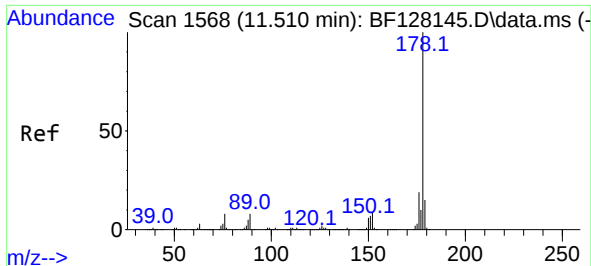
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022



#71  
Phenanthrene  
Concen: 32.529 ng  
RT: 11.451 min Scan# 1558  
Delta R.T. -0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

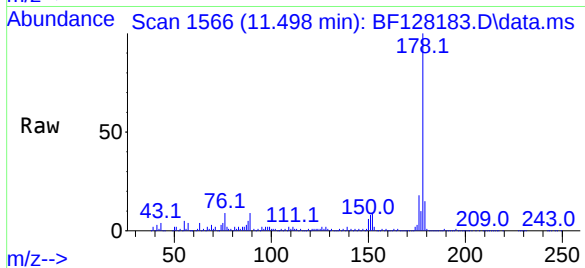
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179 15.6 12.6 19.0





#72  
 Anthracene  
 Concen: 10.817 ng  
 RT: 11.498 min Scan# 1568  
 Delta R.T. -0.012 min  
 Lab File: BF128183.D  
 Acq: 11 May 2022 02:12

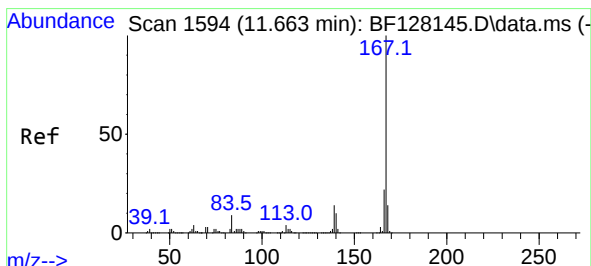
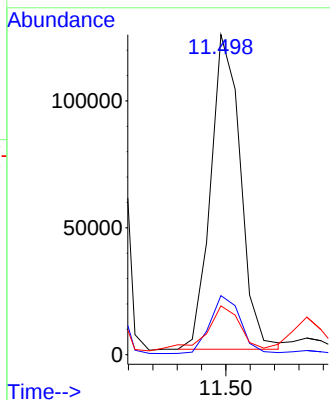
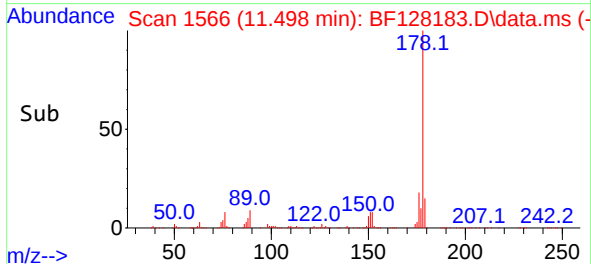
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-02-050922



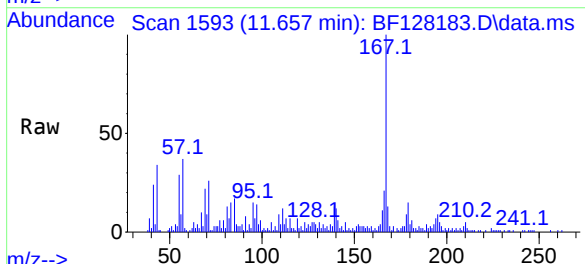
Tgt Ion:178 Resp: 105800  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.0 22.6  
 179 15.2 12.4 18.6

Manual Integrations  
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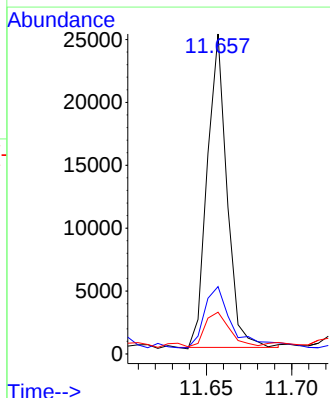
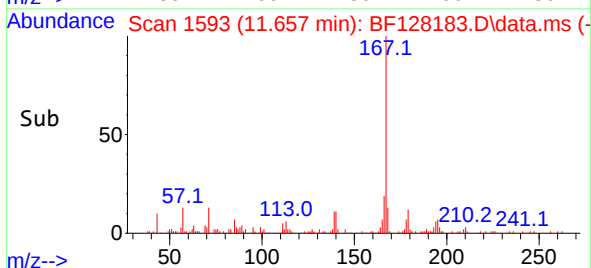
Reviewed By :Christian Giraldo 05/11/2022  
 Supervised By :Jagrut Upadhyay 05/11/2022

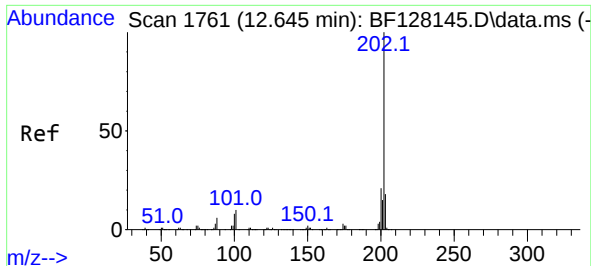


#73  
 Carbazole  
 Concen: 2.158 ng  
 RT: 11.657 min Scan# 1593  
 Delta R.T. -0.006 min  
 Lab File: BF128183.D  
 Acq: 11 May 2022 02:12



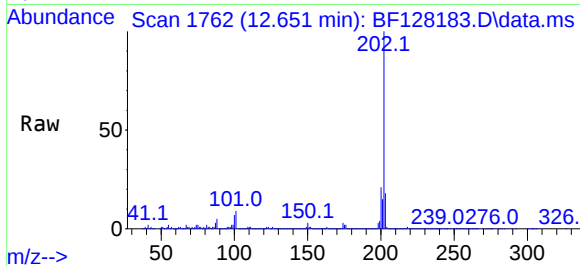
Tgt Ion:167 Resp: 20068  
 Ion Ratio Lower Upper  
 167 100  
 166 21.1 17.6 26.4  
 139 13.1 10.7 16.1





#75  
Fluoranthene  
Concen: 83.607 ng  
RT: 12.651 min Scan# 1761  
Delta R.T. 0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

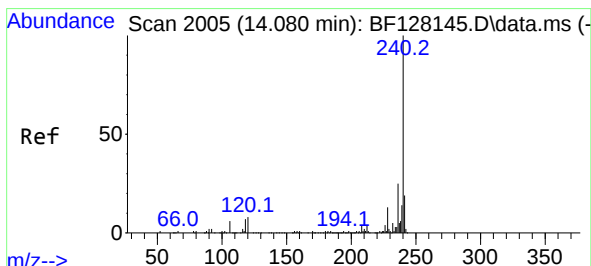
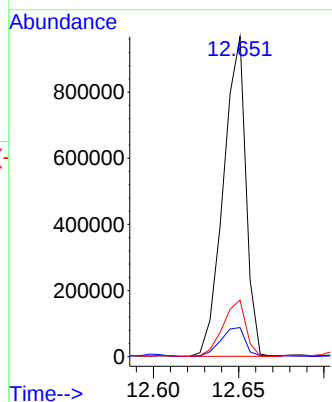
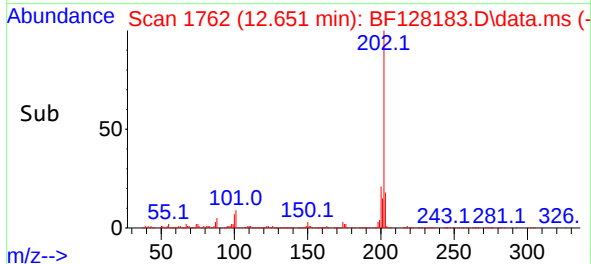
Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-050922



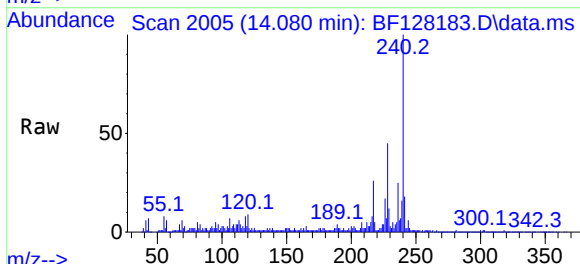
Tgt Ion:202 Resp: 88798  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 31.6  
203 17.7 0.0 38.1

Manual Integrations  
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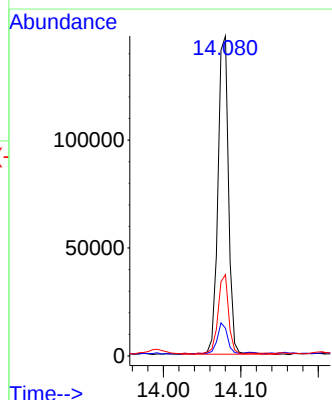
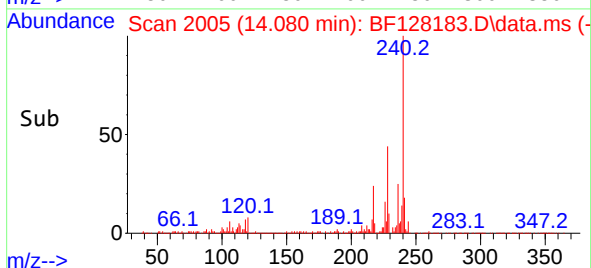
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

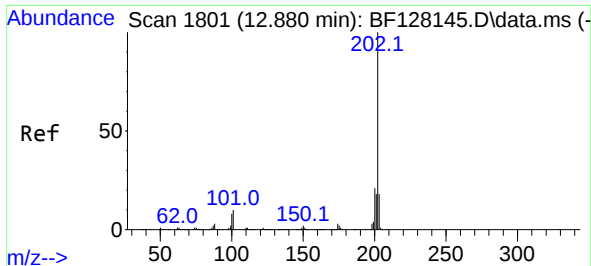


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.080 min Scan# 2005  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



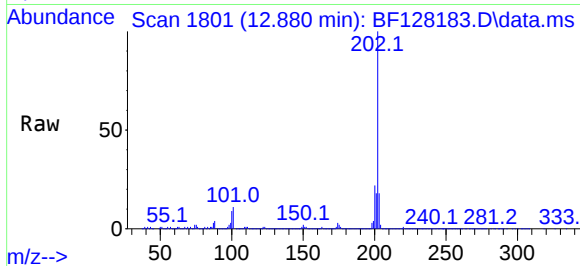
Tgt Ion:240 Resp: 139444  
Ion Ratio Lower Upper  
240 100  
120 8.7 7.0 10.6  
236 25.4 20.3 30.5





#78  
Pyrene  
Concen: 85.560 ng  
RT: 12.880 min Scan# 1801  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

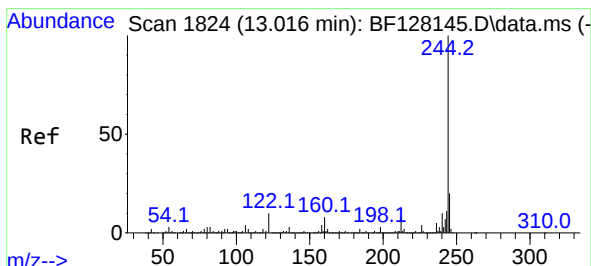
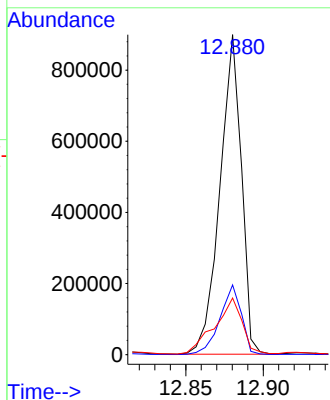
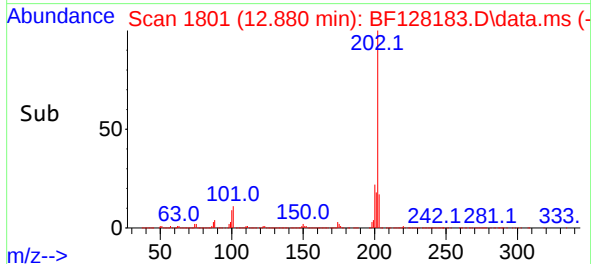
Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-050922



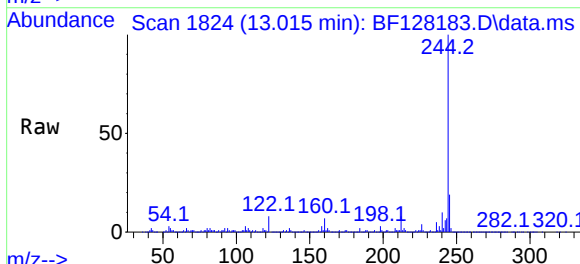
Tgt Ion:202 Resp: 865094  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.4 26.2  
203 17.7 14.0 21.0

Manual Integrations  
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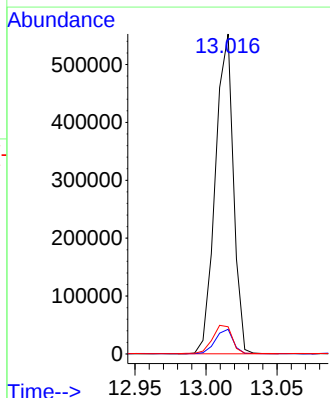
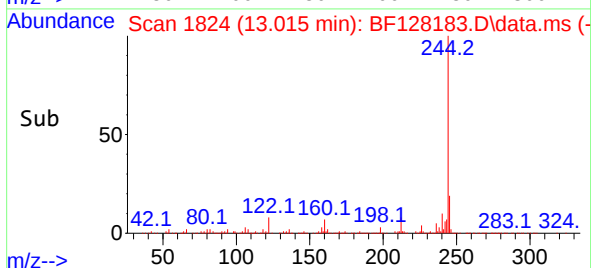
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

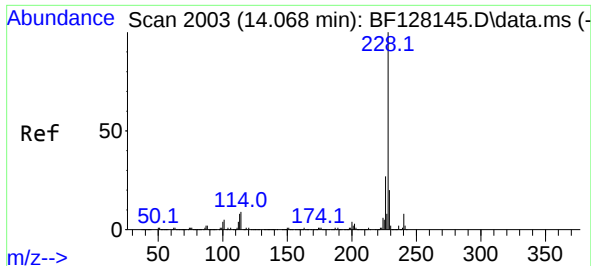


#79  
Terphenyl-d14  
Concen: 65.675 ng  
RT: 13.015 min Scan# 1824  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



Tgt Ion:244 Resp: 488057  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.2 9.4  
122 8.5 8.6 12.8#





#81  
Benzo(a)anthracene  
Concen: 50.551 ng  
RT: 14.068 min Scan# 2003  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

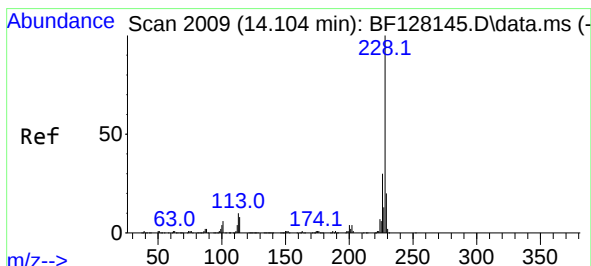
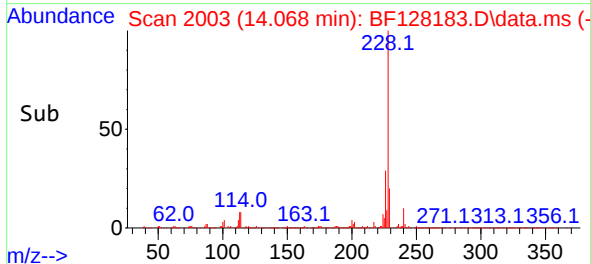
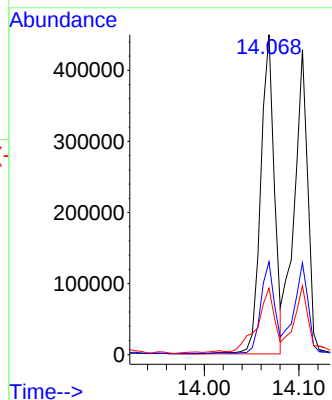
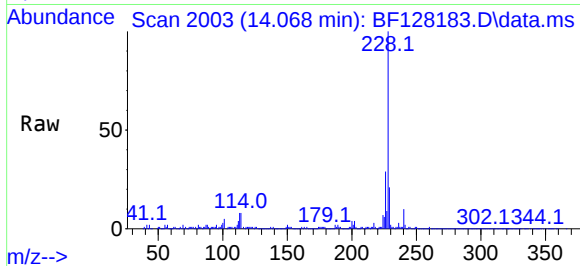
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Tgt Ion:228 Resp: 450240  
Ion Ratio Lower Upper  
228 100  
226 29.1 21.7 32.5  
229 20.8 15.4 23.2

Manual Integrations

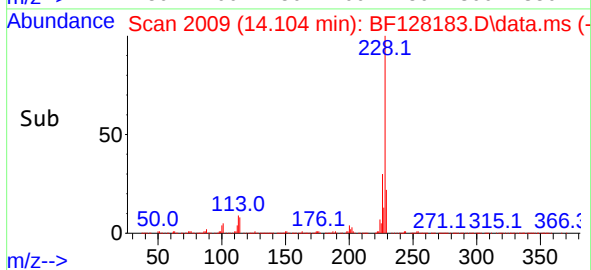
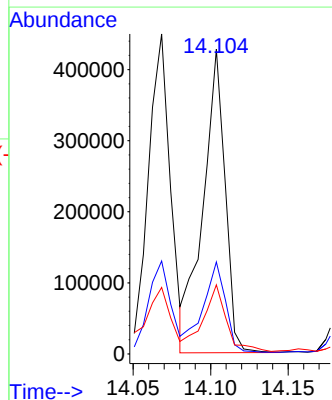
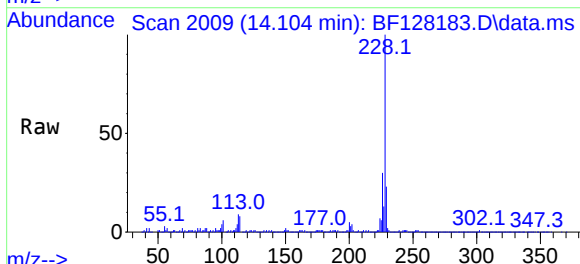
APPROVED

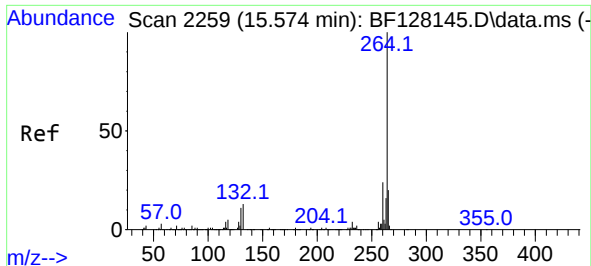
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022



#83  
Chrysene  
Concen: 49.884 ng  
RT: 14.104 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Tgt Ion:228 Resp: 423936  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.4 36.6  
229 22.7 15.8 23.8





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.580 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

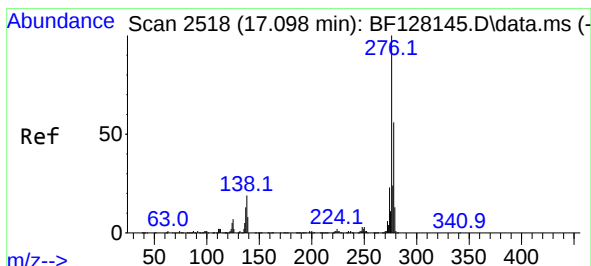
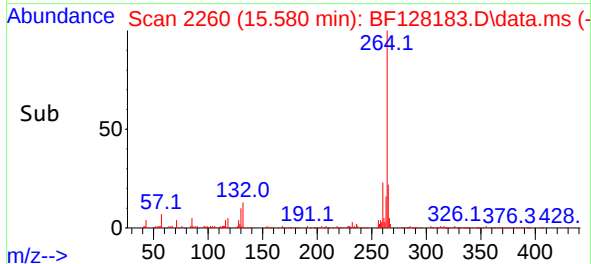
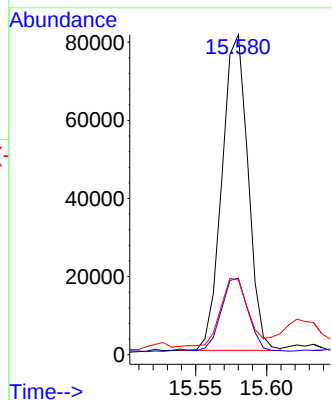
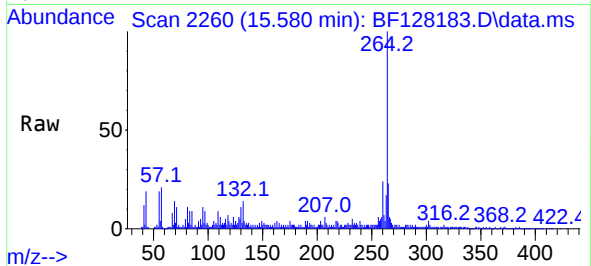
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Tgt Ion:264 Resp: 103014  
Ion Ratio Lower Upper  
264 100  
260 23.9 20.1 30.1  
265 23.3 17.5 26.3

Manual Integrations

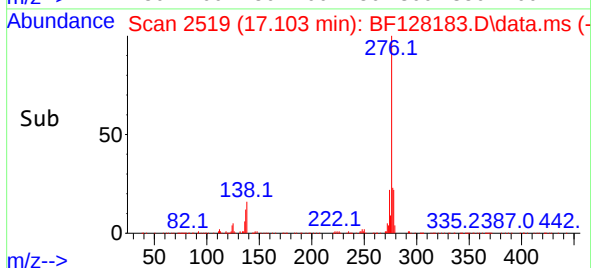
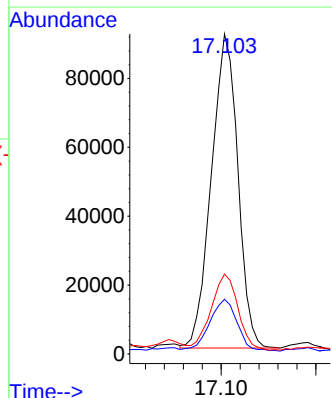
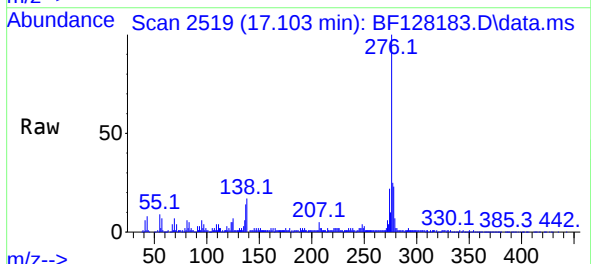
APPROVED

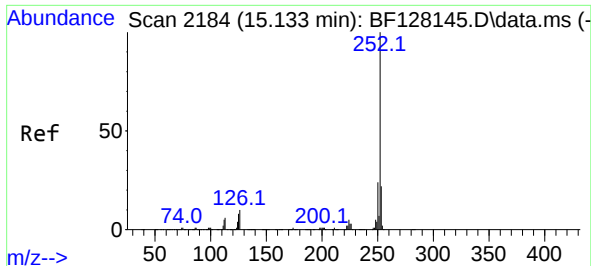
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 28.399 ng  
RT: 17.103 min Scan# 2519  
Delta R.T. 0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Tgt Ion:276 Resp: 176971  
Ion Ratio Lower Upper  
276 100  
138 17.1 19.0 28.4#  
277 24.7 20.1 30.1





#88  
Benzo(b)fluoranthene  
Concen: 73.465 ng m  
RT: 15.139 min Scan# 2184  
Delta R.T. 0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

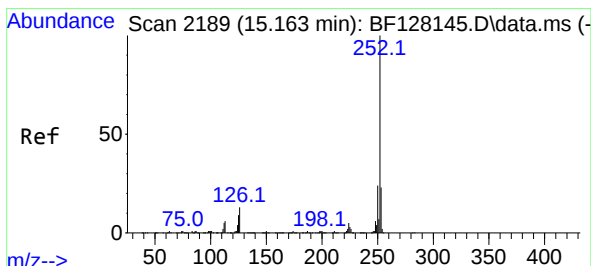
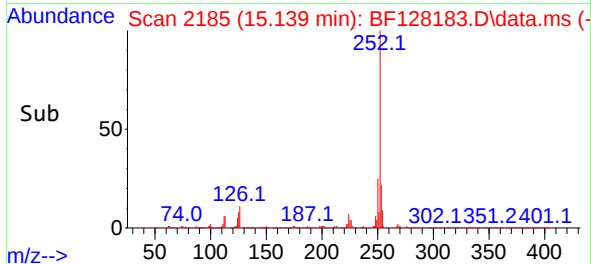
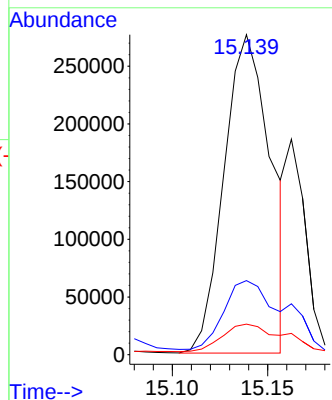
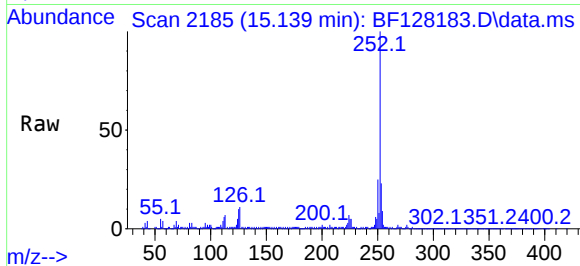
PL-02-050922

Tgt Ion:252 Resp: 46913  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.4 26.2  
125 9.5 7.4 11.2

Manual Integrations

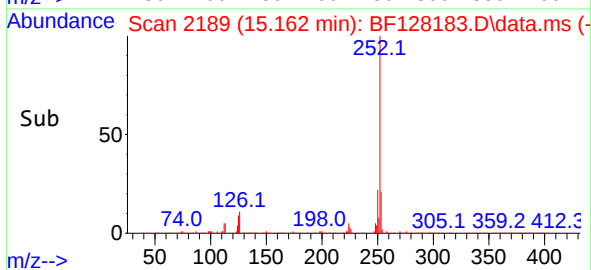
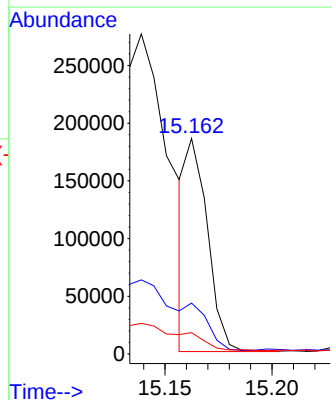
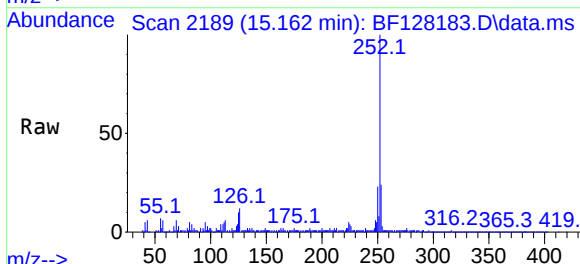
APPROVED

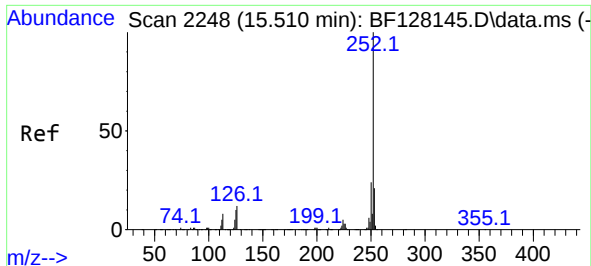
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022



#89  
Benzo(k)fluoranthene  
Concen: 20.394 ng m  
RT: 15.162 min Scan# 2189  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Tgt Ion:252 Resp: 128555  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.0 25.4  
125 9.8 6.8 10.2





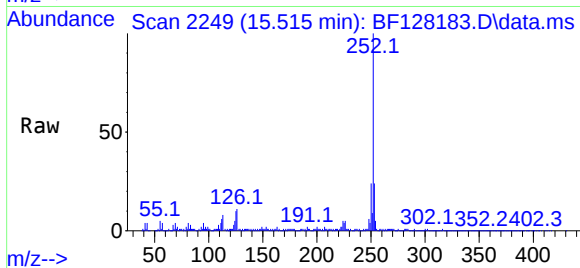
#90  
Benzo(a)pyrene  
Concen: 59.464 ng  
RT: 15.515 min Scan# 2248  
Delta R.T. 0.006 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

PL-02-050922

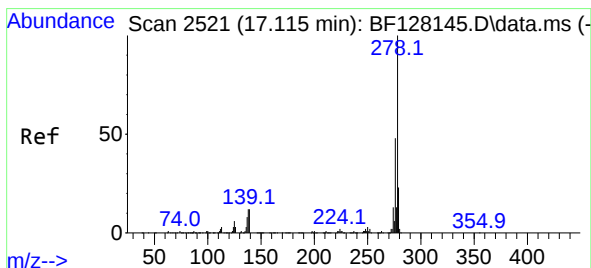
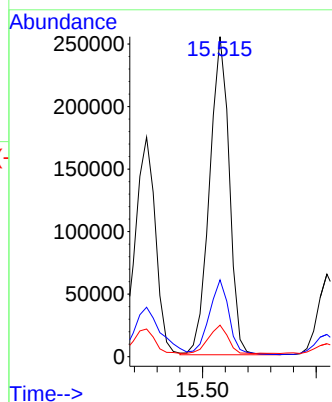
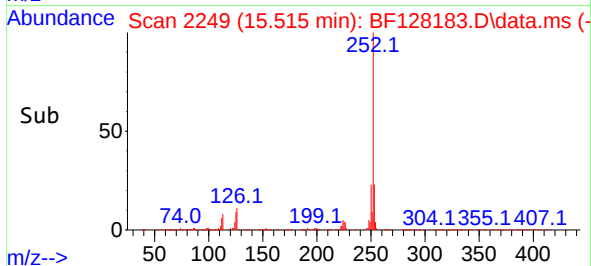


Tgt Ion:252 Resp: 306558  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.8 26.6  
125 9.8 9.2 13.8

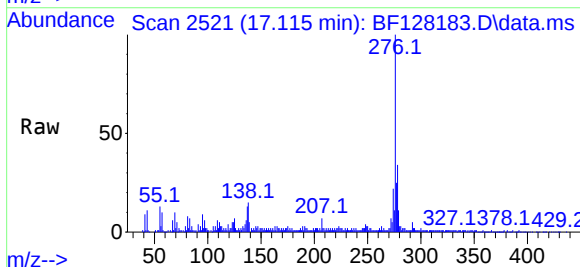
Manual Integrations

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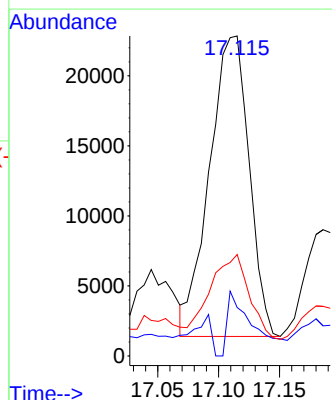
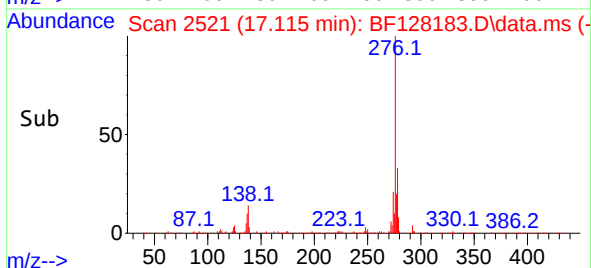
Reviewed By :Christian Giraldo 05/11/2022  
Supervised By :Jagrut Upadhyay 05/11/2022

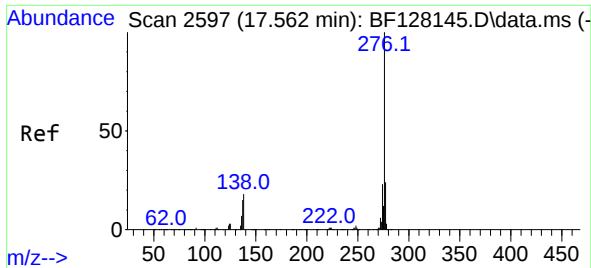


#91  
Dibenzo(a,h)anthracene  
Concen: 9.626 ng  
RT: 17.115 min Scan# 2521  
Delta R.T. -0.000 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12



Tgt Ion:278 Resp: 48563  
Ion Ratio Lower Upper  
278 100  
139 15.2 12.6 19.0  
279 31.7 18.9 28.3#





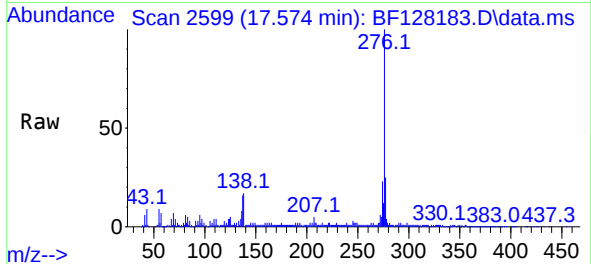
#92  
Benzo(g,h,i)perylene  
Concen: 34.313 ng  
RT: 17.574 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: BF128183.D  
Acq: 11 May 2022 02:12

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion: 276 Resp: 175274  
Ion Ratio Lower Upper  
276 100  
277 25.2 18.8 28.2  
138 16.8 16.2 24.2

Manual Integrations

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Reviewed By : Christian Giraldo 05/11/2022  
Supervised By : Jagrut Upadhyay 05/11/2022

